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Tri-City Medical Center

Tri-City Medical Center Psychiatric Health Facility

4002 Vista Way
Oceanside, CA 92056

006240.00

JANUARY 21, 2022

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GENERAL NOTES

CONFLICTS

1. IN THE EVENT OF AN INCONSISTENCY BETWEEN THE DRAWINGS AND SPECIFICATIONS OR BETWEEN DRAWINGS WHETHER DURING THE BIDDING PROCESS OR CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE TO SEEK CLARIFICATION/RESOLUTION WITH THE DESIGN INTENT FROM THE ARCHITECT. FOR BIDDING PURPOSES, WHEN INFORMATION IN THE DRAWINGS AND/OR SPECIFICATIONS IS INCONSISTENT, THE CONTRACTOR SHALL BASE ITS BID ON THE MORE STRINGENT REQUIREMENT, THE HIGHER QUALITY OR GREATER QUANTITY OF WORK.
2. REVIEW THE ARCHITECTURAL DRAWINGS PRIOR TO THE INSTALLATION OF SYSTEMS SHOWN ON CONSULTING ENGINEERS' DOCUMENTS. DISCREPANCIES BETWEEN THE ARCHITECTURAL AND ENGINEERING DOCUMENTS SHALL BE BROUGHT TO ARCHITECT'S ATTENTION FOR DIRECTION.
3. CONTRACTOR SHALL BE RESPONSIBLE TO CORRECT ALL WORK FOUND TO BE INSTALLED IN CONFLICT WITH THE CONSTRUCTION DOCUMENTS AT NO ADDITIONAL EXPENSE TO THE OWNER.
4. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT UPON FINDING ANY CONFLICTS IN THE DRAWINGS AND SPECIFICATIONS. FOR BIDDING PURPOSES, THE CONTRACTOR SHALL INCLUDE THE HIGHER COST APPROACH WHEN INFORMATION IN THE DRAWINGS OR SPECIFICATIONS IS IN CONFLICT BUT SHALL RESOLVE CONFLICT PRIOR TO START OF CONSTRUCTION.

COORDINATION

1. ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS SHOW WHERE DUCTWORK IS TO BE INSTALLED AT A SPECIFIC ELEVATION IN A CONTROLLED PATTERN. THE CONTRACTOR MUST RELY ON ALL OF THESE DISCIPLINES TO COMPLETE THE WORK AND SHOULD NOTIFY THE ARCHITECT OF ANY DISCREPANCIES. THE CONTRACTOR SHALL COORDINATE LAYOUT, CLEARANCES, AND LOCATION OF HEAD HEIGHTS WITH THE STRUCTURE, MECHANICAL DUCTWORK, ELECTRICAL LIGHTING, DRAINAGE PIPING, AND THE ARCHITECTURAL REFLECTED CEILING PLANS.
2. THE CONTRACTOR SHALL PROVIDE AND COORDINATE THE EXACT DIMENSIONS, SIZES AND POSITIONS OF ALL OPENINGS IN ANY FLOOR, ROOF, OR WALL CONSTRUCTION NECESSARY FOR THE INSTALLATION OF THE WORK, INCLUDING CONFIRMING THE LOCATION OF ALL SUCH OPENINGS PRIOR TO BEGINNING THE WORK.
3. THE ARCHITECTURAL AND STRUCTURAL DRAWINGS DESCRIBE VARIOUS FLOOR SLAB SLOPE REQUIREMENTS, RECESSES AND EDGE CONDITIONS. USE BOTH SETS OF DRAWINGS WHEN INSTALLING THE FLOOR SLAB.
4. PROVIDE FOR THE PROPER SEQUENCE OF CONSTRUCTION, LOCATION AND SIZE OF OPENINGS. COORDINATE ALL CONSTRUCTION AS INDICATED BY THE CONTRACT DOCUMENTS, INCLUDING SHOP DRAWINGS REVIEWED BY ARCHITECT.
5. FLOOR DRAINS IN TOILET ROOMS SHALL BE LOCATED UNDER TOILET PARTITION PRIVACY PANELS TO AVOID CONFLICT WITH SUPPORT PILASTERS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE WORK WITH ANY EQUIPMENT, FURNISHINGS AND SYSTEMS PROVIDED BY THE OWNER.
7. ALL ATTACHMENTS TO AND PENETRATIONS THROUGH CONCRETE NOTED ON THE DRAWINGS TO BE WATERPROOFED SHALL BE MADE PRIOR TO THE APPLICATION OF THE WATERPROOFING MATERIAL.
8. ALL OPERATING MECHANISMS IN PIPING AND DUCTWORK SHALL BE INSTALLED AT LOCATIONS THAT PROVIDE SAFE, DIRECT AND EASY ACCESS FOR MAINTENANCE. ACCESS DOORS SHALL BE PROVIDED AT ALL WALLS AND CEILINGS WHERE ACCESS TO SUCH MECHANISMS IS NOT OTHERWISE READILY AVAILABLE.
9. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS AND COORDINATE AND COMPLY WITH ALL REQUIREMENTS INDICATED ON THE PROJECT DOCUMENTS PRIOR TO PROCEEDING WITH THE WORK AND SHALL PROVIDE ALL WORK NECESSARY TO INSTALL COMPLETE AND FULLY OPERATIONAL SYSTEMS AND COMPONENTS.
10. THE CONTRACTOR SHALL WORK WITHIN THE BOUNDARIES INDICATED IN THE PROJECT DOCUMENTS AND COMPLY WITH ALL APPLICABLE BUILDING CODE, REGULATIONS AND ORDINANCE REQUIREMENTS. OCCUPIED AND ADJACENT TO THE PROJECT AREA BOUNDARIES SHALL CONTINUE UNINTERRUPTED OCCUPANCY DURING CONSTRUCTION OF THE PROJECT.
11. PERFORM THE WORK AT THE PROJECT SITE WITHIN NORMAL BUSINESS HOURS, UNLESS OTHERWISE NOTED.
12. THE CONTRACTOR SHALL NOT INTERRUPT EXISTING UTILITIES SERVING EXISTING FACILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY THE OWNER AND/OR ALL AUTHORITIES HAVING JURISDICTION, AND SHALL PROVIDE TEMPORARY SERVICES DURING CONSTRUCTION ACCEPTABLE TO THE OWNER AND AUTHORITIES HAVING JURISDICTION.

DEFINITIONS

1. THE CONTRACTOR IS THE PERSON OR ENTITY IDENTIFIED AS SUCH IN THE OWNER/CONTRACTOR AGREEMENT AND MEANS THE GENERAL CONTRACTOR OR AT RISK CONSTRUCTION MANAGER, HIS AUTHORIZED REPRESENTATIVE, AND/OR HIS COLLECTIVE SUB-CONTRACTORS. THE CONTRACTOR IS REFERRED THROUGHOUT THE CONTRACT DOCUMENTS AS IF SINGULAR IN NUMBER AND MASCULINE IN GENDER.
2. THE TERM "ALIGN" REFERS TO LOCATING DIFFERENT COMPONENTS OF CONSTRUCTION TO PROVIDE A FLUSH, STRAIGHT, TRUE, AND PLUMB RELATION TO ADJACENT MATERIALS.
3. THE TERM "AS REQUIRED" REFERS TO COMPONENTS THAT MAY BE REQUIRED TO COMPLETE THE NOTED SYSTEM INDICATED IN THE PROJECT DOCUMENTS.
4. THE TERM "HOLD" SHALL BE APPLY TO DIMENSIONS CONSIDERED AS ABSOLUTE AND USED FOR LAYOUT AND CONTROL, UNLESS OTHERWISE DIRECTED BY ARCHITECT.
5. WHERE WORK OR EQUIPMENT IS INDICATED AS "N.I.C." (NOT IN CONTRACT), SUCH WORK AND/OR EQUIPMENT SHALL BE PROVIDED BY OTHERS. CONTRACTOR SHALL COORDINATE AND COOPERATE TO ACCOMMODATE SUCH INSTALLATION.
6. THE TERM "SIMILAR" REFERS TO COMPARABLE CHARACTERISTICS FOR THE ELEVATION, DETAIL NOTED OR FOR A SPECIFIC CONDITION SUCH THAT A COMPLETE SYSTEM AND COMPONENT SHALL BE PROVIDED.
7. THE TERM "TYPICAL" REFERS TO COMPARABLE CONDITIONS TO WHICH THE DETAIL, ELEVATION, NOTE, OR REQUIREMENT SHALL APPLY WHETHER GRAPHICALLY REPRESENTED OR NOT. WHEN A DETAIL OR NOTE IS IDENTIFIED AS TYPICAL ("TYP"), CONTRACTOR SHALL APPLY THIS DETAIL OR NOTE TO EVERY LIKE CONDITION, WHETHER MIRRORED OR SHOWN IN OPPOSITE HAND, AND WHETHER OR NOT THE REFERENCE IS REPEATED IN OTHER INSTANCES.
8. THE TERM "VERIFY" REFERS TO A CONDITION WHICH MUST BE CONFIRMED PRIOR TO PROCEEDING WITH THE ORDERING OF MATERIAL OR THE FABRICATION AND INSTALLATION OF A COMPONENT.
9. ABBREVIATIONS THROUGHOUT THE DOCUMENTS COMPLY WITH DOCUMENT ABBREVIATION LIST OR ARE THOSE IN COMMON USE. ARCHITECT WILL DEFINE THE INTENT OF ANY IN QUESTION.

DESIGN INTENT

1. THE DRAWINGS AND SPECIFICATIONS, INCLUDING DRAWINGS PREPARED BY SPECIFIC ENGINEERING DISCIPLINES (SUCH AS CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, ETC.), ARE COMPLEMENTARY AND ARE INTENDED TO BE USED TOGETHER. ITEMS REFERENCED IN EITHER THE DRAWINGS OR SPECIFICATIONS SHALL BE AS IF SHOWN IN BOTH DRAWINGS AND SPECIFICATIONS. WHERE THE INTENT CANNOT BE REASONABLY INFERRED FROM THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL SEEK CLARIFICATION OR INTERPRETATION FROM THE ARCHITECT.
2. ALL DRAWINGS, NOTES, SYMBOLS, ETC. WITHIN THE CONSTRUCTION DOCUMENTS ARE INTENDED TO CONVEY THE DESIGN INTENT. THEY ARE NOT INTENDED TO BE EXHAUSTIVE IN SCOPE OR TOTALLY COMPREHENSIVE IN DETAIL NOR ARE THEY MEANT TO BE ALL INCLUSIVE OF THE MATERIALS/LABOR TO PRODUCE THE JOB AS INTENDED.
3. NO DRAWING, NOTE, SYMBOL, ETC. SHALL SUPERSEDE ANOTHER.
4. EACH DRAWING SHEET IS IDENTIFIED BY THE SHEET NUMBER LOCATED AT THE LOWER RIGHT HAND CORNER OF THE DRAWING. THE SHEET TITLE PROVIDES A GENERAL DESCRIPTION OF THE CONTENTS OF THE SHEET:
   SINGLE BUILDING PROJECTS: A101 –
   A = DISCIPLINE DESIGNATOR, 1 = SHEET TYPE DESIGNATOR, 01 = FLOOR LEVEL/SHEET NUMBER INDICATOR

   PART PLAN PROJECTS: A101A –
   A = DISCIPLINE DESIGNATOR, 1 = SHEET TYPE DESIGNATOR, 01 = FLOOR LEVEL/SHEET NUMBER INDICATOR, A = PART PLAN NUMBER

   MULTIPLE BUILDING PROJECTS: 1A101 –
   1 = BUILDING NUMBER (TO MATCH ACROSS ALL DISCIPLINES). A = DISCIPLINE DESIGNATOR, 1 = SHEET TYPE DESIGNATOR, 01 = FLOOR LEVEL/SHEET NUMBER INDICATOR

   BUILDINGS WITH BASEMENTS: A1B1 –
   A = DISCIPLINE DESIGNATOR, 1 = SHEET TYPE DESIGNATOR, B1 = FLOOR LEVEL/SHEET NUMBER INDICATOR
5. SHEET NUMBERS MAY INCLUDE SUPPLEMENTAL CHARACTERS TO PROVIDE ADDITIONAL INFORMATION, SUCH AS PROJECT SECTOR; REFER TO THE DRAWING INDEX FOR A COMPLETE LIST OF SHEETS INCLUDED IN THE DOCUMENT SET.
6. DRAWING SET INDEX INDICATES A COMPLETE LIST OF SHEETS CONTAINED IN THE DRAWING SET, INDEXED BY DISCIPLINE, SHEET NUMBER AND SHEET TITLE, IN SEQUENTIAL ORDER. NOTE THAT ALL SEQUENTIAL SHEET NUMBERS MAY NOT BE USED IN THE DRAWING SET.
7. DISCIPLINE IDENTIFICATION IS IN THE ORDER BOUND IN THE DRAWING SET. REFER TO THE DRAWING SET INDEX FOR DISCIPLINE CONTAINED IN THIS DRAWING SET:
   G – GENERAL INFORMATION
   A – ARCHITECTURAL
   I – INTERIORS
   Q – EQUIPMENT
   S – STRUCTURAL
   M – MECHANICAL
   P – PLUMBING
   FP – FIRE PROTECTION
   E – ELECTRICAL
   T – TECHNOLOGY/LOW VOLTAGE

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GENERAL NOTES

8. THE DRAWINGS AND SPECIFICATIONS ARE SEPARATED INTO DISCIPLINES FOR THE CONVENIENCE OF THE ARCHITECT AND CONTRACTOR. SUCH SEPARATIONS IN NO WAY DEFINE OR LIMIT THE SCOPE OR INTENT OF ANY PART OF THE DRAWINGS, OR OF THE DRAWINGS AND SPECIFICATIONS AS A WHOLE. THE FACT THAT THE DRAWINGS ARE SEPARATED IN NO WAY SUGGESTS THAT THE WORK IS NOT TO BE CONSTRUCTED AS A COMPLETE, INTEGRATED AND UNIFIED WHOLE.

EQUIPMENT

1. DRAWINGS ARE PREPARED USING DIMENSIONS AND PRODUCT CONFIGURATIONS OR DETAILS OF SPECIFIC MANUFACTURERS, TYPICALLY THE FIRST MANUFACTURER LISTED UNDER "ACCEPTABLE MANUFACTURERS" IN THE SPECIFICATIONS. THE SIZES, LOCATIONS FOR MOUNTING AND ATTACHMENTS AND LOCATIONS OF UTILITY CONNECTIONS FOR EACH ITEM OF EQUIPMENT SHOWN ON THE DRAWINGS ARE FOR ILLUSTRATION PURPOSES ONLY.
2. SINCE DIMENSIONS AND DETAILS FOR SPECIFIC PRODUCTS MAY CHANGE BEFORE THEY ARE ACTUALLY INCORPORATED INTO THE WORK AND THE SIZES, LOCATIONS FOR MOUNTING AND ATTACHMENTS AND LOCATIONS OF UTILITY CONNECTIONS CAN VARY FROM ONE MANUFACTURER TO ANOTHER AND ARE DEPENDENT ON THE EXACT MANUFACTURER'S MODEL FURNISHED, THE CONTRACTOR SHALL VERIFY INSTALLATION REQUIREMENTS, FOR ALL PRODUCTS TO BE INCORPORATED IN THE WORK (INCLUDING PARTITION THICKNESSES FOR RECESSED OR SEMI-RECESSED PRODUCTS), AND IS RESPONSIBLE FOR ACCOMMODATING AND COORDINATING CHANGES TO OTHER MATERIALS, PRODUCTS OR ASSEMBLIES THAT ARE NECESSARY BECAUSE OF THESE DIFFERENCES.
3. THE SIZES, LOCATION FOR MOUNTINGS AND ATTACHMENTS AND LOCATIONS OF UTILITY CONNECTIONS FOR EACH ITEM OF EQUIPMENT SHOWN IN THE DRAWINGS ARE FOR ILLUSTRATION ONLY. ALL CAN VARY FROM ONE MANUFACTURER TO ANOTHER AND ARE DEPENDENT ON EXACT MANUFACTURER'S MODEL FURNISHED. THE CONTRACTOR SHALL PROVIDE AND COORDINATE EXACT DIMENSIONS RELATING TO THE SIZE OF EACH ITEM OF EQUIPMENT, THE LOCATIONS OF ALL MOUNTINGS AND ATTACHMENTS, AND FOR ALL UTILITY CONNECTIONS FOR EACH ITEM OF EQUIPMENT. IF THE SELECTED PRODUCT RESULTS IN STRUCTURAL CHANGES, THE CONTRACTOR WILL BE RESPONSIBLE FOR ENGINEERING THE CHANGE AND FOR ALL RELATED COSTS.

FIELD CONDITIONS

1. PRIOR TO START OF WORK, THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH SITE CONDITIONS AS THEY MAY AFFECT CARRYING OUT THE WORK AS DESCRIBED IN THESE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL INVESTIGATE, VERIFY, AND BE RESPONSIBLE FOR ALL CONDITIONS OF THE PROJECT ON WHICH THE WORK IS PERFORMED AND FOR THE SAFETY OF ALL PERSONS AND/OR PROPERTY DURING THE PERFORMANCE OF THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY ACTUAL FIELD CONDITIONS THAT ARE NOT CONSISTENT WITH THE WORK INDICATED IN THE CONTRACT DOCUMENTS OR THAT REQUIRE MODIFICATION BEFORE PROCEEDING WITH THE WORK. IF WORK CANNOT BE PERFORMED AS SHOWN, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY. WORK PERFORMED AFTER SUCH DISCOVERY, UNLESS AUTHORIZED BY THE ARCHITECT, SHALL BE DONE AT THE CONTRACTOR'S RISK.
2. PRIOR TO BEGINNING ANY WORK, THE CONTRACTOR SHALL THOROUGHLY INSPECT EXISTING CONDITIONS TO DETERMINE THE CONDITION OF THE WORK ALREADY IN PLACE. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING OR REPLACING ANY EXISTING CONDITION OR EQUIPMENT THAT IS INTENDED TO REMAIN IN PLACE IF DAMAGED DURING CONSTRUCTION.
3. THE CONTRACTOR SHALL VERIFY THAT ALL EMBEDDED ITEMS AND MATERIALS ARE IN PLACE AND SECURELY ANCHORED PRIOR TO POURING CONCRETE.
4. THE CONTRACTOR SHALL VERIFY DIMENSIONS AND LOCATIONS OF ALL OPENINGS, BASES AND SPECIAL PROVISIONS REQUIRED FOR EQUIPMENT, PLUMBING FIXTURES, DUCTS, PIPING, CONDUIT, FINISH HARDWARE, ETC.
5. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO CASEWORK FABRICATION.
6. CUTTING, BORING OR DRILLING THROUGH NEW OR EXISTING STRUCTURAL ELEMENTS SHALL BE ALLOWED ONLY WHEN SO DETAILED IN THE DRAWINGS OR WHEN REVIEWED AND ACCEPTED BY THE PROJECT'S STRUCTURAL ENGINEER OF RECORD.

FIRE AND ACOUSTICAL SEPARATION

1. PROVIDE UL-APPROVED FIRE AND DRAFT STOPS IN ALL WALLS, FURRED SPACES, CEILINGS, ETC. AS REQUIRED AND SPECIFIED BY APPLICABLE CODES.
2. "THROUGH PENETRATION FIRE STOP SYSTEM" DETAILS ARE FOR REFERENCE ONLY. PENETRATION THROUGH FIRE-RATED FLOORS AND WALLS SHALL BE PROVIDED IN ACCORDANCE WITH APPLICABLE CODES. SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
3. ALL ELECTRICAL, MECHANICAL AND PLUMBING PENETRATIONS THROUGH ANY COMPONENT OF A FIRE-RATED ASSEMBLY, INCLUDING CONDUIT AND PIPING THROUGH FIRE-RATED WALL, FLOOR AND CEILING ASSEMBLIES, SHALL BE TIGHTLY AND SOLIDLY SEALED WITH MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES. WHERE ITEM PENETRATES AN AREA SEPARATION WALL, THE SECTION PASSING THROUGH THE WALL SURFACE AND THE FIXTURE CONNECTIONS THERETO SHALL BE ONLY OF METAL.
4. PENETRATIONS INTO AND THROUGH PARTITIONS CONTAINING SOUND INSULATION SHALL BE SEALED WITH PERMANENT RESILIENT SEALANT SPECIFIED FOR THAT PURPOSE. ELECTRICAL DEVICES, RECESSED CABINETS, ETC. SHALL BE SEALED, LINED, INSULATED OR OTHERWISE TREATED TO MAINTAIN THE INTEGRITY OF THE ACOUSTICAL ASSEMBLY.
5. PROVIDE PROPER SLEEVING AND CAULKING TO ALL PLUMBING AND ELECTRICAL CONDUITS AND PIPES PASSING THROUGH SLAB ON GRADE AND CONCRETE OR MASONRY WALLS.
6. WHERE MECHANICAL WORK PENETRATES ANY FIRE-RATED ASSEMBLY ASSOCIATED WITH FIRE-RATED PARTITIONS, FLOORS, SHAFTS AND CEILINGS, PROVIDE THE APPROPRIATE COMBINATION FIRE/SMOKE DAMPERS. COMBINATION FIRE/SMOKE DAMPERS SHALL BE USED AT DUCT PENETRATIONS OF RATED CORRIDOR PARTITIONS. IF, AT THE TIME OF BIDDING, IT IS NOT CLEAR WHETHER DUCTWORK PENETRATES A PORTION OF THE RATED ASSEMBLY, OBTAIN CLARIFICATION FROM THE ARCHITECT PRIOR TO SUBMISSION OF BID.
7. FIRE DAMPER DETAILS ARE SHOWN FOR REFERENCE ONLY. FIRE DAMPERS SHALL BE APPROVED AND LISTED BY STATE FIRE MARSHAL. INSTALL STRICTLY PER MANUFACTURER'S PRINTED INSTRUCTIONS.
8. WHERE FIRE EXTINGUISHER CABINETS AND/OR OTHER EQUIPMENT ARE RECESSED IN FIRE-RATED PARTITIONS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN THE EVENT THAT IT IS DETERMINED THAT ANY PARTITION'S FIRE RATING CANNOT BE MAINTAINED BY THE CONSTRUCTION DETAILS INDICATED IN THE CONSTRUCTION DOCUMENTS.
9. FIRE ALARM AND FIRE SPRINKLER SYSTEM SHOP DRAWINGS MUST BE REVIEWED AND APPROVED BY THE FIRE DEPARTMENT PRIOR TO INSTALLATION.
10. THE CONTRACTOR SHALL PROVIDE PROTECTION COMPLYING WITH THE APPLICABLE BUILDING CODE DURING WELDING. FURTHER PROTECTION SHALL BE PROVIDED TO ANY OCCUPANTS AND THE PUBLIC WITH PORTABLE SOLID VISION BARRICADES AROUND LOCATIONS WHERE WELDING IS BEING PERFORMED AND WITH SIGNS WARNING AGAINST LOOKING AT WELDING WITHOUT PROPER EYE PROTECTION.
11. ALL INTERIOR FINISHES AND INSULATION MATERIALS INSTALLED WITHIN ROOF-CEILING ASSEMBLIES, ATTICS, OR WALLS SHALL CONFORM TO THE REQUIREMENTS OF THE BUILDING CODE. ALL FINISHES AND INSULATION MATERIALS SHALL HAVE A FLAME SPREAD RATING OF 25 OR LESS AND A SMOKE DENSITY NOT TO EXCEED 450 WHEN TESTED IN ACCORDANCE WITH ASTM E84 OR UL 723.
12. PROVIDE LABELS ON DOORS, FRAMES AND OTHER ASSEMBLIES AT OPENING SIN FIRE-RATED CONSTRUCTION, INCLUDING DOCUMENTATION FOR SECURITY-RATED SYSTEMS.
13. ALL FIRE-RATED DOOR ASSEMBLIES SHALL BE PROVIDED WITH APPROVED GASKETING MATERIAL INSTALLED TO PROVIDE A SEAL WHERE THE DOOR MEETS THE STOP ON BOTH SIDES AND ACROSS THE TOP.
14. MANUFACTURERS' INSTALLATION INSTRUCTIONS SHALL BE AVAILABLE ON THE JOB SITE FOR ALL RATED OPENING ASSEMBLIES.
15. DRAWINGS WHICH SHOW LISTED CONSTRUCTION HAVE BEEN DETAILED IN COMPLIANCE WITH UNDERWRITERS LABORATORIES (UL), WARNOCK HERSEY AND/OR OTHER RECOGNIZED TESTING LABORATORY LISTING REQUIREMENTS AND WITH ICBO REPORTS FOR THE MATERIALS SPECIFIED. IF AN ALTERNATE OR SUBSTITUTE MATERIAL IS PROPOSED BY THE CONTRACTOR, THE ALTERNATE OR SUBSTITUTION SHALL CONFORM TO THE REQUIREMENTS IN SPECIFICATION SECTION 01630 AND SHALL COMPLY WITH ONE OF THE APPROVED TESTING LABORATORIES NOTED ABOVE.
16. ALL WOOD USED FOR BLOCKING, NAILERS, AND/OR FRAMING USED FOR PERMANENT CONSTRUCTION SHALL BE FIRE RETARDANT PRESSURE TREATED AND SHALL BEAR AN APPROVED INSPECTION AGENCY LABEL.
17. PENETRATIONS THROUGH FIRE-RATED WALLS AND FLOORS SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN SUBJECTED TO THE REQUIREMENTS OF THE TEST STANDARD SPECIFIC FOR FIRE STOPS ASTM E-184 AND UBC STANDARD 7-5 AND IN COMPLIANCE WITH THE PROJECT MANUAL.
18. THE CONTRACTOR SHALL SUBMIT SHOP DRAWING DETAILS FURNISHED BY THE MANUFACTURER OF FIRE STOP MATERIAL WHICH CONFORMS AND SHALL BE SPECIFIED FOR EACH PENETRATION WITH ALL VARIABLES DEFINED. THESE FINAL AND APPROVED DRAWINGS SHALL BE READILY AVAILABLE TO THE DISTRICT INSPECTOR AT ALL TIMES AT THE PROJECT SITE.
19. DUCT INSULATION APPLIED TO THE EXTERIOR SURFACE OF DUCTS SHALL HAVE A FLAME-SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED RATING OR NOT MORE THAN 50 WHEN TESTED AS A COMPOSITE INSTALLATION INCLUDING INSULATION, FACING MATERIALS, TAPES AND ADHESIVES AS NORMALLY APPLIED.
20. THE CONTRACTOR SHALL PROVIDE PROTECTION DURING WELDING COMPLYING WITH APPLICABLE CODES. FURTHER PROTECTION SHALL BE PROVIDED TO ANY OCCUPANTS AND THE PUBLIC WITH PORTABLE SOLID VISION BARRICADES AROUND LOCATION WHERE WELDING IS BEING PERFORMED. PROVIDE SIGNS WARNING AGAINST LOOKING AT WELDING WITHOUT PROPER EYE PROTECTION OR EQUIVALENT.
21. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A-10BC WITHIN A 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF THE BUILDING ON EACH FLOOR.

GENERAL NOTES

22. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 10BC FOR ELECTRICAL ROOMS, MECHANICAL ROOMS, ELEVATOR MACHINE ROOMS AND TRASH ROOMS.
23. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A-10BC WITHIN A 75 FEET TRAVEL DISTANCE FOR PARKING AREAS.
24. PROVIDE AN APPROPRIATE NUMBER OF PORTABLE FIRE EXTINGUISHERS WITH A RATING OR NOT LESS THAN 4A-60BC FOR PROTECTION DURING CONSTRUCTION.
25. ALL ATTACHMENTS TO AND PENETRATIONS THROUGH CONCRETE NOTED ON THE DRAWINGS TO BE WATERPROOFED SHALL BE MADE PRIOR TO APPLICATION OF THE WATERPROOF MATERIALS.

MEANS OF EGRESS

1. THE CONTRACTOR SHALL KEEP ALL EXITS READILY ACCESSIBLE AND UNOBSTRUCTED AT ALL TIMES.
2. ALL EXIT DOORS, INCLUDING EACH LEAF OF PAIR OF DOORS, SHALL ALWAYS BE OPERABLE FROM THE INSIDE BY THE SIMPLE TURN OF LEVER OR PUSHING AN EXIT DEVICE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT AND IN COMPLIANCE WITH REGULATIONS FOR THE ACCESSIBLE (BARRIER-FREE LAWS). MAXIMUM EFFORT TO OPERATE THE DOORS SHALL NOT EXCEED 5 POUNDS, SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS WHEN FIRE-RATED DOORS ARE INDICATED.
3. PROVIDE A STRIP AT LEAST 2" WIDE OF CLEARLY CONTRASTING COLOR PLACED PARALLEL TO AND NOT MORE THAN 1" BACK FROM THE NOSE OF THE TOP AND BOTTOM TREAD OF ALL INTERIOR STAIR RUNS AND ON EACH TREAD OF ALL EXTERIOR STAIR RUNS.
4. PROVIDE BARRICADES AND PROTECTIVE DEVICES SEPARATING CONSTRUCTION AREAS. PROVIDE TEMPORARY PASSAGES AS REQUIRED. PRIOR TO DELIVERY OF MATERIALS TO CONSTRUCTION ZONE AND REMOVAL OF WASTE FROM SITE, CHECK WITH OWNER/ARCHITECT/RESIDENT INSPECTOR FOR ACCEPTABLE ACCESS ROUTE AND TIME. UNDER NO CIRCUMSTANCES SHALL AREA OUTSIDE THE CONSTRUCTION ZONE BE USED WITHOUT PRIOR CLEARANCE FROM THE OWNER/ARCHITECT/RESIDENT INSPECTOR.
5. ALL RATED DOORS SHALL BE POSITIVE LATCHING.
6. PER APPLICABLE BUILDING CODES, EXISTING BUILDINGS UNDERGOING CONSTRUCTION SHALL REMAIN IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS AT ALL TIMES:
   a.WATER MAINS AND HYDRANTS SHALL BE OPERATIONAL;
   b.FIRE EXTINGUISHERS SHALL REMAIN ACCESSIBLE AND OPERATIONAL. THE NUMBER AND TYPE OF EXTINGUISHERS SHALL BE AS REQUIRED BY THE LOCAL FIRE DEPARTMENT AND THE TYPE OF EXTINGUISHER SHALL BE SUITABLE FOR THE TYPE OF FIRE ASSOCIATED WITH THE HAZARDS PRESENT.
   c.EXITING COMPONENTS SHALL BE MAINTAINED. PROVIDE TEMPORARY 1-HOUR RATED PROTECTION DURING CONSTRUCTION, WHERE REQUIRED.
   d.COMBUSTIBLE DEBRIS, RUBBISH AND WASTE MATERIAL SHALL BE REMOVED FROM THE CONSTRUCTION SITE DAILY. WASTE MATERIAL AND TRASH SHALL NOT BE BURNED ON SITE UNLESS APPROVED. DO NOT STORE BUILDING MATERIALS IN CORRIDORS AT ANY TIME. COMPLY WITH REQUIREMENTS AS SPECIFIED IN PROJECT MANUAL.
   e.FIRE RESISTIVE ASSEMBLIES AND CONSTRUCTION SHALL BE MAINTAINED DURING THE COURSE OF CONSTRUCTION.
   f.FIRE ASSEMBLIES (DOORS, DAMPERS, ETC.) SHALL BE PER MANUFACTURER'S STANDARDS. ANY FAILURE SHALL BE REPLACED.
7. ALL FIRE-RATED DOOR ASSEMBLIES SHALL BE PROVIDED WITH APPROVED GASKETING MATERIALS INSTALLED TO PROVIDE A SEAL WHERE THE DOOR MEETS THE STOP ON BOTH SIDES AND ACROSS THE TOP.
8. MANUFACTURERS' INSTALLATION INSTRUCTIONS SHALL BE AVAILABLE ON THE JOB SITE FOR ALL RATED OPENING ASSEMBLIES.

SPECIFICATIONS

1. THESE DOCUMENTS WERE PRODUCED USING THE CONSTRUCTION SPECIFICATION INSTITUTE'S UNIFORM DRAWING SYSTEM AND THE NATIONAL CAD STANDARD AS GUIDES.
2. THESE DRAWINGS USE A MODIFIED UDS NOTATION SYSTEM. THE SPECIFICATION NOTATION SYSTEM USES THE FIRST SIX DIGITS OF THE SPECIFICATION SECTION IN CONJUNCTION WITH MATERIAL DESCRIPTIONS. REFER TO SPECIFICATION MANUAL FOR COMPLETE SPECIFICATION SECTION NUMBER. THIS INFORMATION IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR ONLY AND IS NOT INTENDED TO INDICATE SPECIFIC TRADES TO BE UTILIZED FOR THE WORK. IN CASE OF DISCREPANCIES BETWEEN THE REFERENCE NUMBER AND THE VERBAL DESCRIPTION, THE VERBAL DESCRIPTION SHALL TAKE PRECEDENCE, UNLESS OTHERWISE DIRECTED. DISCREPANCIES BETWEEN SPECIFICATION NUMBER REFERENCES AND WRITTEN DESCRIPTIONS OF MATERIALS OR SYSTEMS IN NO WAY RELIEVES THE CONTRACTOR OF RESPONSIBILITY FOR COMPLETING THE WORK AS SHOWN.

ADDITIONAL NOTES

1. WORK SHALL COMPLY WITH THE PROVISIONS OF CHAPTER 33 OF THE CBC & CFC, "FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION" & OSA IR F-2
2. ALL WORK SHALL CONFORM TO 2019 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR) AND 2020 LA COUNTY CODES.
3. THE SCOPE OF WORK - CLEARLY INDICATE THE SCOPE OF WORK ON THE COVER SHEET OR GENERAL NOTE SHEET OF THE DRAWINGS.
4. FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE DSA. LIST DEFERRED SUBMITTAL ITEMS FOR THIS PROJECT.
5. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
6. SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE, WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL COCUMENTS HAVE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.
7. SMOKE DETECTION, AS PER SEC. 907 & QUICK RESPONSE SPRINKLERS SYSTEM, AS PER SEC. 407.2
8. GLAZING IN THE FOLLOWING LOCATIONS SHOULD BE OF SAFETY GLAZING MATERIAL IN ACCORDANCE WITH SECTION 2406.4 (SEE EXCEPTIONS);
   a. F

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BLD-01144 - North Wing - Bldg 02, SPC: 4, NPC: 2

BLD-05487 - Behavioral Health Unit - Bldg 11, SPC: N/A, NPC: N/A

BLD-02871 - Perinatal Unit/Womens Center - Bldg 15A, SPC: 4, NPC: 2

BLD-02872 - Perinatal Unit/Womens Center - Bldg 15B, SPC: 4, NPC: 2

BLD-02874 - Perinatal Unit/Womens Center Canopy 3 - Bldg 15D, SPC: 4, NPC: 2

BLD-01155 - Ancillary Building - Bldg 13, SPC: 4, NPC: 2

BLD-02870 - Emergency Room Addition Canopy - Bldg 14B, SPC: 3, NPC: 2

BLD-01151 - Emergency Room Addition - Bldg 14A, SPC: 3, NPC: 2

BLD-01150 - 1976 Radiology Addition - Bldg 08, SPC: 4, NPC: 2

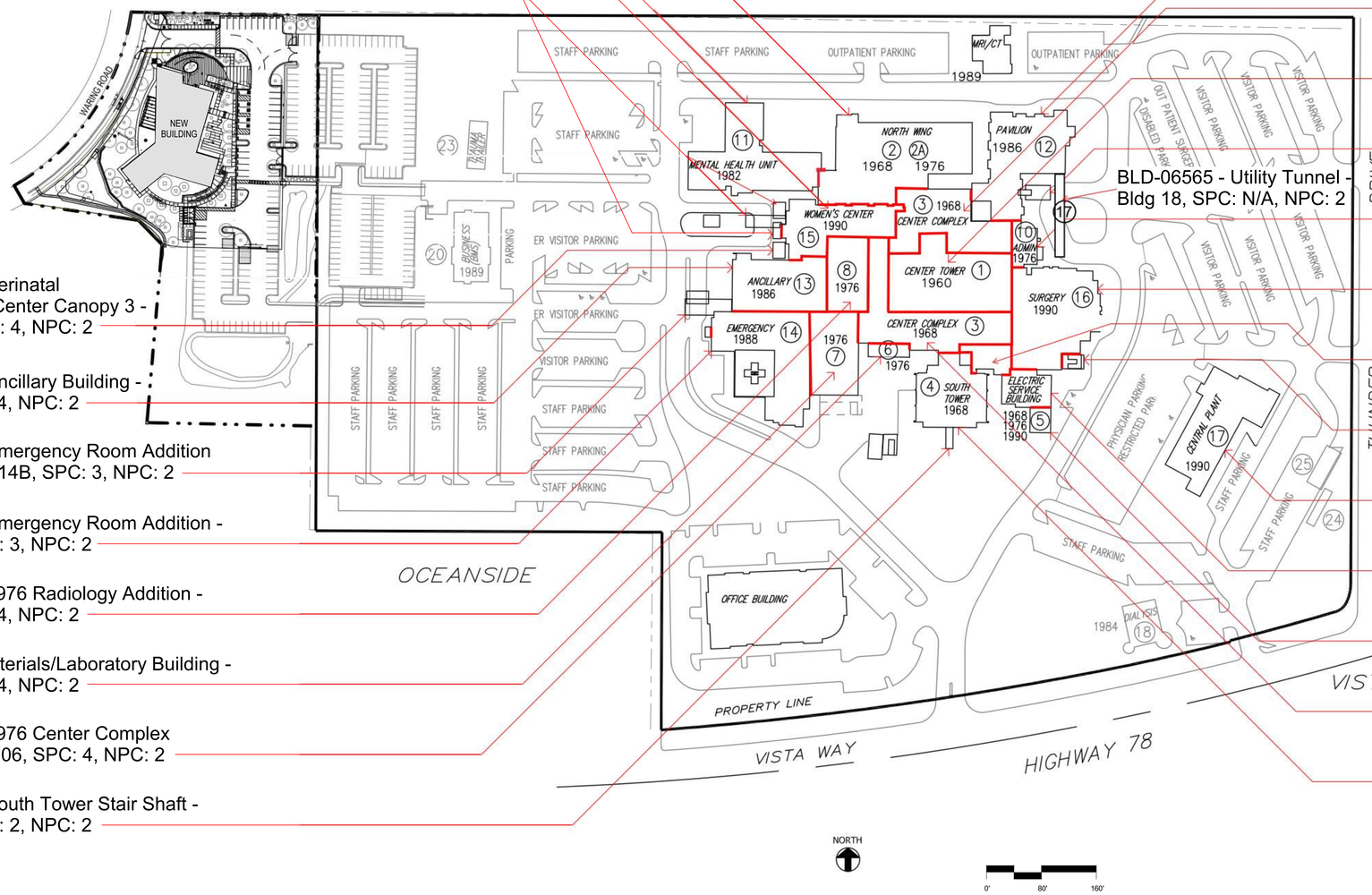
BLD-01149 Materials/Laboratory Building - Bldg 07, SPC: 4, NPC: 2

BLD-01148 - 1976 Center Complex Addition - Bldg 06, SPC: 4, NPC: 2

BLD-02868 - South Tower Stair Shaft - Bldg 04B, SPC: 2, NPC: 2

Tri-City Medical Center Facility No. 12372

10/24/19



BLD-06565 - Utility Tunnel - Bldg 18, SPC: N/A, NPC: 2

BLD-01154 - Pavillion Building - Bldg 12A, SPC: 4, NPC: 2

BLD-01145 - Center Complex - North - Bldg 03A, SPC: 4, NPC: 2

BLD-01143 - Center Tower - Bldg 01, SPC: 2, NPC: 2

BLD-01153 - Pavillion Building Canopy - Bldg 12B, SPC: 4, NPC: 2

BLD-01152 - Administration Building - Bldg 10, SPC: 4, NPC: 2

BLD-02875 - Surgery Addition 1 - Bldg 16A, SPC: 3, NPC: 2

BLD-02876 - Surgery Addition 2 - Bldg 16B, SPC: 3, NPC: 2

BLD-02877 - Surgery Addition Canopy - Bldg 16C, SPC: 3, NPC: 2

BLD-02878 - Central Plant - Bldg 17, SPC: 4, NPC: 2

BLD-01147 - Electrical Building - Bldg 05A, SPC: 2, NPC: 2

BLD-02869 - Electrical Building Addition - Bldg 05B, SPC: 4, NPC: 2

BLD-03766 - Center Complex - South - Bldg 03B, SPC: 3, NPC: 2

BLD-01146 - South Tower - Bldg 04A, SPC: 2, NPC: 2

NORTH

0' 80' 160'

1 OVERALL CAMPUS PLAN
1" = 80'-0"

GENERAL NOTE

1. OWNER TO PROVIDE NEW BUILDING ADDRESS SIGNAGE ON EXISTING MARQUEE AT MAIN ENTRANCE ON VISTA WAY. ADDRESS MUST BE CLEARLY VISIBLE AND LEGIBLE.
2. OWNER TO PROVIDE ADEQUATE RADIO COVERAGE ON THE 800MHZ COUNTRYWIDE COMMUNICATION SYSTEM. WHEN TESTED, IF THE 800HMZ SIGNAL STRENGTH READINGS FALL BELOW 65 IN ANY PORTION OF THE BUILDING, EITHER ABOVE OR BELOW GRADE AS MEASURED BY AN 800 MHZ PORTABLE RADIO, THE PURCHASE AND INSTALLATION OF ONE OR MORE BI-DIRECTIONAL AMPLIFIER RADIO COVERAGE ENHANCER IS REQUIRED.

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Tri-City Medical Center

Tri-City Medical Center Psychiatric Health Facility

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ISSUE FOR PLANNING	15 DEC 2020
ISSUE FOR GRADING PERMIT	03 DEC 2020

Rev.	Description	Date
AGENCY APPROVAL		

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LICENSED ARCHITECT
MATTHEW S. GREINER
NO. C27137
REN.: 10-31-2023
STATE OF CALIFORNIA

CONSULTANT SEAL

Drawing Title:

OVERALL CAMPUS PLAN

Issue Date: 01/21/2022

Project No.: 006240.00 Checked by: Checker

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ZONES OF RISK

- LEVEL 1
- LEVEL 2
- LEVEL 3
- LEVEL 4 & 5

LEVEL 1
PUBLIC AREAS, STAFF AND SERVICE AREAS WHERE PATIENTS ARE NOT ALLOWED

LEVEL 2
SPACES WHERE PATIENTS ARE HIGHLY SUPERVISED AND NOT LEFT ALONE FOR LONG PERIODS OF TIME

LEVEL 3
SPACES WHERE PATIENTS WILL TYPICALLY BE SUPERVISED AND/OR WITHIN SMALL GROUPS, BUT COULD BE ALONE AND/OR MINIMALLY/UNSUPERVISED FOR BRIEF PERIODS OF TIME

LEVEL 4 & 5
SPACES WHERE PATIENTS ARE EXPECTED TO BE ALONE AND UNSUPERVISED, OR WHERE STAFF INTERACT WITH PATIENTS FOR THE FIRST TIME

1 ZONES OF RISK FLOOR PLAN
1/8" = 1'-0"

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Drawing Title:

ZONES OF RISK FLOOR PLAN

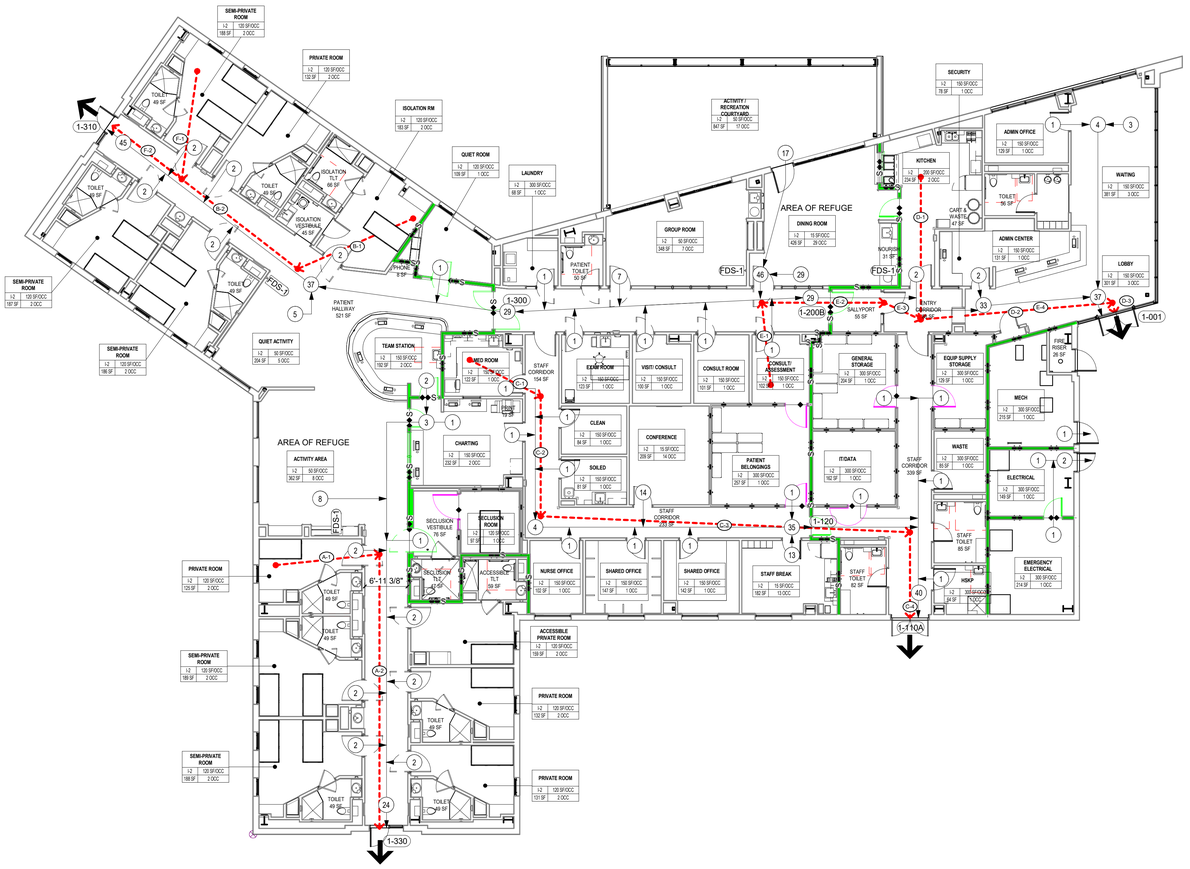
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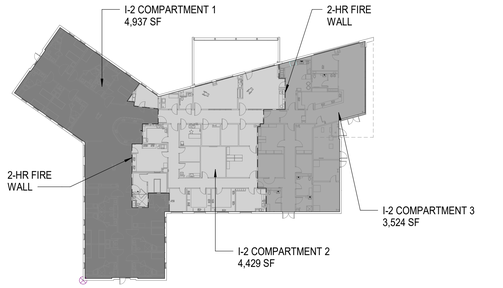
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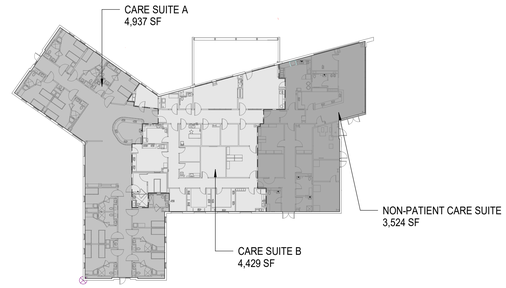
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4 CODE COMPLIANCE PLAN
1" = 10'-0"



1 LEVEL 01 OCCUPANCY PLAN
1/32" = 1'-0"



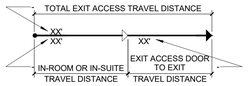
2 LEVEL 01 CARE SUITE PLAN
1/32" = 1'-0"



3 OCCUPANT LOAD FUNCTION
1/32" = 1'-0"

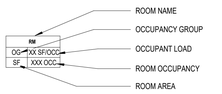
LEGEND

- 1 HOUR FIRE BARRIER
- 2 HOUR FIRE BARRIER
- S 2 HOUR FIRE WALL
- FEC FIRE EXTINGUISHER CABINET
- FE FIRE EXTINGUISHER
- FHV FIRE HOSE VALVE CABINET OR STANDPIPE CONNECTION
- ANN FIRE ALARM ANNUNCIATOR PANEL
- FIRE DEPARTMENT CONNECTION
- EXIT
- AREA OF RESCUE
- EXIT ACCESS CORRIDOR
- EGRESS PATH/ TRAVEL DISTANCE



- 1125A EXIT
- HE 1125A HORIZONTAL EXIT
- D 1125A EXIT DISCHARGE

ROOM OCCUPANCY TAG



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APPLICABLE CODES, STANDARDS, AND ORDINANCES:

- OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT (OSHPD)
- 2019 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (CAC)
- 2019 CALIFORNIA BUILDING CODE (CBC)
- 2019 CALIFORNIA ELECTRICAL CODE (CEC)
- 2019 CALIFORNIA MECHANICAL CODE (CMC) -PART 4, TITLE 24, (CCR)
- 2019 CALIFORNIA PLUMBING CODE (CPC)
- 2019 CALIFORNIA FIRE CODE (CFC)
- 2016 NFPA 13 - STANDARD FOR INSTALLATION OF SPRINKLER SYSTEMS
- 2016 NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE
- 2012 NFPA 101 - LIFE SAFETY CODE
- O.S.H.A. -OCCUPATIONAL SAFETY AND HEALTH ACT ENFORCE
- CALIFORNIA DEPARTMENT OF HEALTH CARE SERVICES
- CALIFORNIA DEPARTMENT OF SOCIAL SERVICES
- 2010 ADA (AMERICAN DISABILITIES ACT) STANDARDS FOR ACCESSIBLE DESIGN

CODE COMPLIANCE - EGRESS PATH DISTANCE		
TRAVEL PATH ID	TRAVEL PATH SEGMENT ID	TRAVEL PATH DISTANCE
A	1	17' - 0"
A	2	44' - 9"
A		61' - 9"
B	1	20' - 7"
B	2	38' - 1"
B		58' - 8"
C	1	13' - 0"
C	2	19' - 7"
C	3	60' - 3"
C	4	13' - 11"
C		106' - 10"

CODE COMPLIANCE - EGRESS PATH DISTANCE		
TRAVEL PATH ID	TRAVEL PATH SEGMENT ID	TRAVEL PATH DISTANCE
D	1	23' - 3"
D	2	31' - 4"
D	3	1' - 8"
D		56' - 4"
E	1	13' - 6"
E	2	19' - 11"
E	3	6' - 7"
E	4	31' - 4"
E	5	1' - 8"
E		73' - 1"
F	1	17' - 10"
F	2	14' - 3"
F		32' - 1"

BUILDING AREA:

CBC TABLE 506.2
I-2 (TYPE IIA-S1) ALLOWABLE AREA: 60,000 SF
ACTUAL AREA: 13,560 SF
- I-2 AREA 1: 4,937 SF
- I-2 AREA 2: 4,429 SF
- I-2 AREA 3: 3,524 SF

RESULT: PER CBC 704.1.1 EXCEPTION, THE ALLOWABLE FLOOR AREA FOR GROUP I-2 (CONSTRUCTION TYPE IIA) SHALL NOT EXCEED 5,200 SF BETWEEN FIRE WALLS OF 2-HR RESISTIVE CONSTRUCTION WITH PROTECTIVE OPENINGS HAVING 1-1/2 HOUR FIRE PROTECTION RATING. 2-HR FIRE WALLS HAVE BEEN INCLUDED TO DIVIDE ALLOWABLE FLOOR AREA TO ADDRESS THE MAXIMUM AREA CRITERIA.

BUILDING HEIGHT:

CODE & EDITION	MEASURE	PERMITTED FOR CONSTRUCTION TYPE IIA	SPRINKLER BONUS	PERMITTED HEIGHT ADJUSTED FOR BONUS	ACTUAL HEIGHT
CBC 2019	STORIES (TABLE 504.4)	3	N/A	N/A	1 STORY
	HEIGHT* (TABLE 504.3)	85'-0"	N/A	N/A	23'-6"

*MEASURED IN FEET ABOVE GRADE PLANE

FIRE RESISTANCE RATINGS

CBC 2019 - TABLE 601 - TYPE IIA	
ITEM	FIRE RATING
STRUCTURAL FRAME	1 HR
SUPPORTING ROOF ONLY	1 HR
BEARING WALLS : EXTERIOR	1 HR
INTERIOR	1 HR
INTERIOR SUPPORTING ROOF ONLY	0 HR
NON-BEARING WALLS AND PARTITIONS EXTERIOR SEPARATION >30'	0 HR
INTERIOR	0 HR
FLOOR CONSTRUCTION	1 HR
ROOF CONSTRUCTION	1 HR

GENERAL INFORMATION:

BUILDING IS FULLY SPRINKLERED
AUTOMATIC SPRINKLER SYSTEM: YES NFPA 13
FIRE ALARM SYSTEM: YES NFPA 72

OCCUPANCY:
OCCUPANCY CLASSIFICATION: I-2 INSTITUTIONAL
PRIMARY USE: INPATIENT MEDICAL (AMBULATORY CARE)
OSHPD 5
ACCESSORY OCCUPANCY: NONE

CONSTRUCTION CLASSIFICATION:

CONSTRUCTION TYPE: CBC 2019 - TYPE IIA
PER CBC 704.1.1 EXCEPTION

SMOKE/FIRE COMPARTMENT SUMMARY

MINIMUM NUMBER OF SMOKE COMPARTMENTS: 2 COMPARTMENTS (407.5)
MAXIMUM AREA OF EACH SMOKE COMPARTMENT: 22,500 SF (407.5.1)
ACTUAL AREA: REFER TO SPECIFIC CODE COMPLIANCE PLANS

MAXIMUM TRAVEL DISTANCES:

GROUP I-2 TRAVEL DISTANCES TO EXIT ACCESS DOOR NOT IN A CARE SUITE
ALLOWABLE MAX. IN ANY ROOM = 50' (407.4.2)
ALLOWABLE MAX. IN ANY SLEEPING ROOM = 50' (407.4.2)
ACTUAL MAXIMUM - REFER TO PLANS

GROUP I-2 TRAVEL DISTANCES TO CORRIDOR IN A CARE SUITE
ALLOWABLE MAX. IN SLEEPING SUITE = 100' (407.4.4.3.2 EXCEPTION)
ALLOWABLE MAX. IN SLEEPING SUITE WITH 1 INTERVENING ROOM = 100' (407.4.4.3.1)
ACTUAL MAXIMUM - REFER TO PLANS

GROUP I-2 TRAVEL DISTANCES TO EXIT ACCESS DOOR IN A CARE SUITE
ALLOWABLE MAX. IN CARE SUITE = 100' (407.4.4.5.3)

COMMON PATH OF TRAVEL (CP)
ALLOWABLE MAXIMUM = 75' (1006.2.1)
ACTUAL MAXIMUM - REFER TO PLANS

CORRIDOR WIDTH
CBC 1228.4.7 & 1224.4.7.1 EXCEPTION
MIN. CLEAR & UNOBSTRUCTED WIDTH OF 6'

IBC TABLES 307.1(1) & 307.1(2)
NO HAZARDOUS MATERIALS WILL BE STORED OR USED WITHIN THE BUILDING WHICH EXCEEDS THE QUANTITIES LISTED IN IBC TABLES 307.1(1) & 307.1(2)

CBC SEC. 1228.13 & 1228.14
THIS BUILDING SUPPORTS 17 AMBULATORY PATIENTS

PATIENT CARE AREAS:
INDOOR ACTIVITY ROOMS - 4 AREAS PROVIDED

DINING ROOM
GROUP ROOM
ACTIVITY AREA
QUIET ACTIVITY

17 x 25SF = 425 SF MIN REQUIRED
1,340 SF PROVIDED

OUTDOOR ACTIVITY AREA - 1 AREA PROVIDED

407.5.3 REFUGE AREA

NOT LESS THAN 6 SQUARE FEET (0.56 M2) FOR EACH AMBULATORY CARE RECIPIENT NOT CONFINED TO BED OR STRETCHER AND FOR OTHER OCCUPANTS.

2 AREAS PROVIDED DINING ROOM
ACTIVITY ROOM

17 x 6SF= 102 SF MIN REQUIRED
788 PROVIDED

PLUMBING FIXTURE COUNT I-2 OCCUPANCY (CPC 422.0)

TOTAL OCCUPANT : 50 (16 PATIENTS, 16 VISITORS, 18 EMPLOYEES)

	TOILETS	URINALS	LAV	TUB/SHOWER	DF	OTHER
	1 PER ROOM		1 PER ROOM	1 PER ROOM	1 PER 150	
INDIVIDUAL ROOMS (12)	12		12	12	1	1 SERVICE SINK
	1 PER ROOM		1 PER ROOM		1 PER ROOM	
WAITING (1)	1		1		1	
	1 : 1-15		1 PER 40			
EMPLOYEES MEN (9)	1		2			
	1 : 1-15		1 PER 40			
EMPLOYEES WOMEN (9)	1		2			

SPACE	AREA	OCCUPANCY TYPE	OCCUPANCY FUNCTION	SF/OCC	FIXED OCC #	TOTAL OCCUPANTS
SMOKE COMPARTMENT 1						
ACTIVITY	587 SF	Ex	Activity room	50	0	12
ADMINISTRATIVE	188 SF	B	Business	150	0	2
SLEEPING AREA	4179 SF	I-s	Institutional - sleeping	120	0	35
SMOKE COMPARTMENT 1						49
SMOKE COMPARTMENT 2						
ACCESSORY	297 SF	AC	Accessory	300	0	1
ACCESSORY	873 SF	AC	Accessory	300	0	3
ACTIVITY	368 SF	Ex	Activity room	50	0	8
ACTIVITY	808 SF	Ex	Activity room	50	0	17
ADMINISTRATIVE	222 SF	B	Business	150	0	2
ADMINISTRATIVE	411 SF	B	Business	150	0	3
ADMINISTRATIVE	747 SF	B	Business	150	0	5
DINING	481 SF	A-u	Assembly - unconcentrated	15	0	33
SLEEPING AREA	409 SF	I-s	Institutional - sleeping	120	0	4
SLEEPING AREA	276 SF	I-s	Institutional - sleeping	120	0	3
TREATMENT	478 SF	I-i	Institutional - inpatient	240	0	2
SMOKE COMPARTMENT 2						81
SMOKE COMPARTMENT 3						
ACCESSORY	1984 SF	AC	Accessory	300	0	7
ADMINISTRATIVE	1140 SF	B	Business	150	0	8
KITCHEN	301 SF	K	Kitchen - commercial	200	0	2
SMOKE COMPARTMENT 3						17
Grand total						147

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LEVEL 01 CODE COMPLIANCE

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AIA California

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2020, Includes August 2019 Supplement)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

Y | N/A | RESPON. PARTY

CHAPTER 3
GREEN BUILDING
SECTION 301 GENERAL

301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7.

301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS. [BSC-CG] The provisions of individual sections of Chapter 5 apply to newly constructed buildings, building additions of 1,000 square feet or greater, and/or building alterations with a permit valuation of $200,000 or above (for occupancies within the authority of California Building Standards Commission). Code sections relevant to additions and alterations shall only apply to the portions of the building being added or altered within the scope of the permitted work.

A code section will be designated by a banner to indicate where the code section only applies to newly constructed buildings [N] or to additions and/or alterations [A]. When the code section applies to both, no banner will be used.

301.3.1 Nonresidential additions and alterations that cause updates to plumbing fixtures only:

Note: On and after January 1, 2014, certain commercial real property, as defined in Civil Code Section 1101.3, shall have its noncompliant plumbing fixtures replaced with appropriate water-conserving plumbing fixtures under specific circumstances. See Civil Code Section 1101.1 *et seq.* for definitions, types of commercial real property affected, effective dates, circumstances necessitating replacement of noncompliant plumbing fixtures, and duties and responsibilities for ensuring compliance.

301.3.2 Waste Diversion. The requirements of Section 5.408 shall be required for additions and alterations whenever a permit is required for work.

301.4 PUBLIC SCHOOLS AND COMMUNITY COLLEGES. (see GBSC)
301.5 HEALTH FACILITIES. (see GBSC)

SECTION 302 MIXED OCCUPANCY BUILDINGS

302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.

SECTION 303 PHASED PROJECTS

303.1 PHASED PROJECTS. For shell buildings and others constructed for future tenant improvements, only those code measures relevant to the building components and systems considered to be new construction (or newly constructed) shall apply.

303.1.1 Initial Tenant improvements. The provisions of this code shall apply only to the initial tenant improvements to a project. Subsequent tenant improvements shall comply with the scoping provisions in Section 301.3 non-residential additions and alterations.

ABBREVIATION DEFINITIONS:

HCD	Department of Housing and Community Development
BSC	California Building Standards Commission
DSA-SS	Division of the State Architect, Structural Safety
OSHPD	Office of Statewide Health Planning and Development
LR	Low Rise
HR	High Rise
AA	Additions and Alterations
N	New

CHAPTER 5
NONRESIDENTIAL MANDATORY MEASURES

DIVISION 5.1 PLANNING AND DESIGN

SECTION 5.101 GENERAL

5.101.1 SCOPE
The provisions of this chapter outline planning, design and development methods that include environmentally responsible site selection, building design, building siting and development to protect, restore and enhance the environmental quality of the site and respect the integrity of adjacent properties.

SECTION 5.102 DEFINITIONS

5.102.1 DEFINITIONS
The following terms are defined in Chapter 2 *(and are included here for reference)*

CUTOFF LUMINAIRES. Luminaires whose light distribution is such that the candela per 1000 lamp lumens does not numerically exceed 25 (2.5 percent) at an angle of 90 degrees above nadir, and 100 (10 percent) at a vertical angle of 80 degrees above nadir. This applies to all lateral angles around the luminaire.

LOW-EMITTING AND FUEL EFFICIENT VEHICLES.
Eligible vehicles are limited to the following:

1. Zero emission vehicle (ZEV), including neighborhood electric vehicles (NEV), partial zero emission vehicle (PZEV), advanced technology PZEV (AT ZEV) or CNG fueled (original equipment manufacturer only) regulated under Health and Safety Code section 43800 and CCR, Title 13, Sections 1961 and 1962.
2. High-efficiency vehicles, regulated by U.S. EPA, bearing High-Occupancy Vehicle (HOV) car pool lane stickers issued by the Department of Motor Vehicles.

NEIGHBORHOOD ELECTRIC VEHICLE (NEV). A motor vehicle that meets the definition of "low-speed vehicle" either in Section 385.5 of the Vehicle Code or in 49CFR571.500 (as it existed on July 1, 2000), and is certified to zero-emission vehicle standards.

TENANT-OCCUPANTS. Building occupants who inhabit a building during its normal hours of operation as permanent occupants, such as employees, as distinguished from customers and other transient visitors.

VANPOOL VEHICLE. Eligible vehicles are limited to any motor vehicle, other than a motortruck or truck tractor, designed for carrying more than 10 but not more than 15 persons including the driver, which is maintained and used primarily for the nonprofit work-related transportation of adults for the purpose of ridesharing.

Note: Source: Vehicle Code, Division 1, Section 668

ZEV. Any vehicle certified to zero-emission standards.

SECTION 5.106 SITE DEVELOPMENT

CIVIL

5.106.1 STORM WATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB LESS THAN ONE ACRE OF LAND. Newly constructed projects and additions which disturb less than one acre of land, and are not part of a larger common plan of development or sale, shall prevent the pollution of storm water runoff from the construction activities through one or more of the following measures:
THIS PROJECT WILL COMPLY WITH OCEANSIDE WATER DISTRICT QUALITY MANAGEMENT AND DISCHARGE CONTROL.

5.106.1.1 Local ordinance. Comply with a lawfully enacted storm water management and/or erosion control ordinance.

5.106.1.2 Best Management Practices (BMPs). Prevent the loss of soil through wind or water erosion by implementing an effective combination of erosion and sediment control and good housekeeping BMPs.

1. Soil loss BMPs that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
   a. Scheduling construction activity during dry weather, when possible.
   b. Preservation of natural features, vegetation, soil, and buffers around surface waters.
   c. Drainage swales or lined ditches to control stormwater flow.
   d. Mulching or hydroseeding to stabilize disturbed soils.
   e. Erosion control to protect slopes.
   f. Protection of storm drain inlets (gravel bags or catch basin inserts).
   g. Perimeter sediment control (perimeter silt fence, fiber rolls).
   h. Sediment trap or sediment basin to retain sediment on site.
   i. Stabilized construction exits.
   j. Wind erosion control.
   k. Other soil loss BMPs acceptable to the enforcing agency.
2. Good housekeeping BMPs to manage construction equipment, materials, non-stormwater discharges and wastes that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
   a. Dewatering activities.
   b. Material handling and waste management.
   c. Building materials stockpile management.
   d. Management of washout areas (concrete, paints, stucco, etc.).
   e. Control of vehicle/equipment fueling to contractor's staging area.
   f. Vehicle and equipment cleaning performed off site.
   g Spill prevention and control.
   h. Other housekeeping BMPs acceptable to the enforcing agency.

Y | N/A | RESPON. PARTY

CIVIL

5.106.2 STORMWATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB ONE OR MORE ACRES OF LAND. Comply with all lawfully enacted stormwater discharge regulations for projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of a larger common plan of development sale.

Note: Projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of the larger common plan of development or sale must comply with the post-construction requirements detailed in the applicable National Pollutant Discharge Elimination System (NPDES) General permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board or the Lahontan Regional Water Quality Control Board (for projects in the Lake Tahoe Hydrologic Unit).

The NPDES permits require postconstruction runoff (post-project hydrology) to match the preconstruction runoff (pre-project hydrology) with the installation of postconstruction stormwater management measures. The NPDES permits emphasize runoff reduction through on-site stormwater use, interception, evapotranspiration, and infiltration through nonstructural controls, such as Low Impact Development (LID) practices, and conversation design measures. Stormwater volume that cannot be addressed using nonstructural practices is required to be captured in structural practices and be approved by the enforcing agency.

Refer to the current applicable permits on the State Water Resources Control Board website at: www.waterboards.ca.gov/constructionstormwater. Consideration to the stormwater runoff management measures should be given during the initial design process for appropriate integration into site development.

LANDSC.

5.106.4 BICYCLE PARKING. For buildings within the authority of California Building Standards Commission as specified in Section 103, comply with Section 5.106.4.1. For buildings within the authority of the Division of the State Architect pursuant to Section 105, comply with Section 5.106.4.2
REQUIRED BICYCLE PARKINGS WILL BE PROVIDED.

5.106.4.1 Bicycle parking. [BSC-CG] Comply with Sections 5.106.4.1.1 and 5.106.4.1.2; or meet the applicable local ordinance, whichever is stricter.

5.106.4.1.1 Short-term bicycle parking. If the new project or an addition or alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack.
Exception: Additions or alterations which add nine or less visitor vehicular parking spaces.

5.106.4.1.2 Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.

5.106.4.1.3 For additions or alterations that add 10 or more tenant-occupant vehicular parking spaces, provide secure bicycle parking for 5 percent of the tenant vehicular parking spaces being added, with a minimum of one bicycle parking facility.

5.106.4.1.4 For new shell buildings in phased projects provide secure bicycle parking for 5 percent of the anticipated tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.

5.106.4.1.5 Acceptable bicycle parking facility for Sections 5.106.4.1.2, 5.106.4.1.3, and 5.106.4.1.4 shall be convenient from the street and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

Note: Additional information on recommended bicycle accommodations may be obtained from Sacramento Area Bicycle Advocates.

5.106.4.2 Bicycle parking. [DSA-SS] For public schools and community colleges, comply with Sections 5.106.4.2.1 and 5.106.4.2.2
DOES NOT APPLY

5.106.4.2.1 Student bicycle parking. Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new building.
5.106.4.2.2 Staff bicycle parking. Provide permanent, secure bicycle parking conveniently accessed with a minimum of two staff bicycle parking spaces per new building. Acceptable bicycle parking facilities shall be convenient from the street or staff parking area and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

5.106.5.2 DESIGNATED PARKING FOR CLEAN AIR VEHICLES. In new projects or additions or alterations that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as follows:
TOTAL NUMBER OF NEW ON-SITE PARKING = 0

TABLE 5.106.5.2 - PARKING

TOTAL NUMBER OF PARKING SPACES	NUMBER OF REQUIRED SPACES
0-9	0
10-25	1
25-50	3
51-75	6
76-100	8
101-150	11
151-200	16
201 AND OVER	AT LEAST 8% OF TOTAL

5.106.5.2.1 - Parking stall marking. Paint, in the paint used for stall striping, the following characters such that the lower edge of the last word aligns with the end of the stall striping and is visible beneath a parked vehicle: CLEAN AIR / VAN POOL / EV

Note: Vehicles bearing Clean Air Vehicle stickers from expired HOV lane programs may be considered eligible for designated parking spaces.

5.106.5.3 Electric vehicle (EV) charging. [N] Construction shall comply with Section 5.106.5.3.1 or Section 5.106.5.3.2 to facilitate future installation of electric vehicle supply equipment (EVSE). When EVSE(s) is/are installed, it shall be in accordance with the *California Building Code,* the *California Electrical Code* and as follows:
NO ADDITIONAL PARKING PROVIDED; HOWEVER PROJECT HAS INCLUDED 2 EV CHARGING STATIONS PER LEED REQUIREMENTS.

5.106.5.3.1 Single charging space requirements. [N] When only a single charging space is required per Table 5.106.5.3.3, a raceway is required to be installed at the time of construction and shall be installed in accordance with the *California Electrical Code.* Construction plans and specifications shall include, but are not limited to, the following:

1. The type and location of the EVSE.
2. A listed raceway capable of accommodating a 208/240 -volt dedicated branch circuit.
3. The raceway shall not be less than trade size 1".
4. The raceway shall originate at a service panel or a subpanel serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and listed suitable cabinet, box, enclosure or equivalent.
5. The service panel or subpanel shall have sufficient capacity to accommodate a minimum 40-ampere dedicated branch circuit for the future installation of the EVSE.

5.106.5.3.2 Multiple charging space requirements. [N] When multiple charging spaces are required per Table 5.106.5.3.3 raceway(s) is/are required to be installed at the time of construction and shall be installed in accordance with the *California Electrical Code.* Construction plans and specifications shall include, but are not limited to, the following:

1. The type and location of the EVSE.
2. The raceway(s) shall originate at a service panel or a subpanel(s) serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and into listed suitable cabinet(s), box(es), enclosure(s) or equivalent.
3. Plan design shall be based upon 40-ampere minimum branch circuits.
4. Electrical calculations shall substantiate the design of the electrical system, to include the rating of equipment and any on-site distribution transformers and have sufficient capacity to simultaneously charge all required EVs at its full rated amperage.
5. The service panel or subpanel(s) shall have sufficient capacity to accommodate the required number of dedicated branch circuit(s) for the future installation of the EVSE.

5.106.5.3.3 EV charging space calculations. [N] Table 5.106.5.3.3 shall be used to determine if single or multiple charging space requirements apply for the future installation of EVSE.

Exceptions: On a case-by-case basis where the local enforcing agency has determined EV charging and infrastructure is not feasible based upon one or more of the following conditions:

Y | N/A | RESPON. PARTY

1. Where there is insufficient electrical supply.
2. Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.

TABLE 5.106.5.3.3

TOTAL NUMBER OF PARKING SPACES	NUMBER OF REQUIRED SPACES
0-9	0
10-25	1
26-50	2
51-75	4
76-100	5
101-150	7
151-200	10
201 AND OVER	6% of total[1]

1. Calculation for spaces shall be rounded up to the nearest whole number.

5.106.5.3.4 [N] Identification. The service panel or subpanel(s) circuit directory shall identify the reserved overcurrent protective device space(s) for future EV charging as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE".

5.106.5.3.5 [N] Future charging spaces qualify as designated parking as described in Section 5.106.5.2 Designated parking for clean air vehicles.

ELEC.

5.106.8 LIGHT POLLUTION REDUCTION. [N].I Outdoor lighting systems shall be designed and installed to comply with the following:
SEE ELECTRICAL SHEETS

1. The minimum requirements in the California Energy Code for Lighting Zones 0-4 as defined in Chapter 10, Section 10-114 of the California Administrative Code; and
2. Backlight (B) ratings as defined in IES TM-15-11 (shown in Table A-1 in Chapter 8);
3. Uplight and Glare ratings as defined in California Energy Code (shown in Tables 130.2-A and 130.2-B in Chapter 8) and
4. Allowable BUG ratings not exceeding those shown in Table 5.106.8, [N] or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.

Exceptions: [N]

1. Luminaires that qualify as exceptions in Section 140.7 of the California Energy Code.
2. Emergency lighting.
3. Building facade meeting the requirements in Table 140.7-B of the California Energy Code, Part 6.
4. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8 Alternate materials, designs and methods of construction.

Note: [N]
1. See also California Building Code, Chapter 12, Section 1205.6 for college campus lighting requirements for parking facilities and walkways.
2. Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for IES TM-15-11 Table A-1, California Energy Code Tables 130.2-A and 130.2-B.
3. Refer to the California Building Code for requirements for additions and alterations.

TABLE 5.106.8 [N] MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS 1,2

ALLOWABLE RATING	LIGHTING ZONE LZ0	LIGHTING ZONE LZ1	LIGHTING ZONE LZ2	LIGHTING ZONE LZ3	LIGHTING ZONE LZ4
MAXIMUM ALLOWABLE BACKLIGHT RATING 3					
Luminaire greater than 2 mounting heights (MH) from property line	N/A	No Limit	No Limit	No Limit	No Limit
Luminaire back hemisphere is 1-2 MH from property line	N/A	B2	B3	B4	B4
Luminaire back hemisphere is 0.5-1 MH from property line	N/A	B1	B2	B3	B3
Luminaire back hemisphere is less than 0.5 MH from property line	N/A	B0	B0	B1	B2
MAXIMUM ALLOWABLE UPLIGHT RATING (U)					
For area lighting 4	N/A	U0	U0	U0	U0
For all other outdoor lighting,including decorative luminaires	N/A	U1	U2	U3	UR
MAXIMUM ALLOWABLE GLARE RATING 5 (G)					
Luminaire greater than 2 MH from property line	N/A	G1	G2	G3	G4
Luminaire front hemisphere is 1-2 MH from property line	N/A	G0	G1	G1	G2
Luminaire front hemisphere is 0.5-1 MH from property line	N/A	G0	G0	G1	G1
Luminaire back hemisphere is less than 0.5 MH from property line	N/A	G0	G0	G0	G1

1. IESNA Lighting Zones 0 and 5 are not applicable; refer to Lighting Zones as defined in the *California Energy Code* and Chapter 10 of the *California Administrative Code.*

2. For property lines that abut public walkways, bikeways, plazas and parking lots, the property line may be considered to be 5 feet beyond the actual property line for purpose of determining compliance with this section. For property lines that abut public roadways and public transit corridors, the property line may be considered to be the centerline of the public roadway or public transit corridor for the purpose of determining compliance with this section.

3. If the nearest property line is less than or equal to two mounting heights from the back hemisphere of the luminaire distribution, the applicable reduced Backlight rating shall be met.

4. General lighting luminaires in areas such as outdoor parking, sales or storage lots shall meet these reduced ratings. Decorative luminaires located in these areas shall meet *U*-value limits for "all other outdoor lighting".

5. If the nearest property line is less than or equal to two mounting heights from the front hemisphere of the luminaire distribution, the applicable reduced Glare rating shall be met.

CIVIL

5.106.10 GRADING AND PAVING. Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:
SEE CIVIL DRAWINGS

1. Swales.
2. Water collection and disposal systems.
3. French drains.
4. Water retention gardens.
5. Other water measures which keep surface water away from buildings and aid in groundwater recharge.

Exception: Additions and alterations not altering the drainage path.

Y | N/A | RESPON. PARTY

LANDSC.

5.106.12 SHADE TREES [DSA-SS]. Shade Trees shall be planted to comply with Sections 5.106.12.1, 5.106.12.2, and 5.106.12.3. Percentages shown shall be measured at noon on the summer solstice. Landscape irrigation necessary to establish and maintain tree health shall comply with Section 5.304.6.

5.106.12.1 Surface parking areas. Shade tree plantings, minimum #10 container size or equal, shall be installed to provide shade over 50 percent of the parking area within 15 years.

Exceptions: The surface parking area covered by solar photovoltaic shade structures, or shade structures, with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5, are not included in the total area calculations.

5.106.12.2 Landscape areas. Shade tress plantings, minimum #10 container size or equal shall be installed to provide shade of 20% of the landscape area within 15 years.

Exceptions: Playfields for organized sport activity are not included in the total area calculation.

5.106.12.3. Hardscape areas. Shade tree plantings, minimum #10 container size or equal shall be installed to provide shade over 20 percent of the hardscape area within 15 years.

Exceptions: Walks, hardscape areas covered by solar photovoltaic shade structures, and hardscape areas covered by shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5, are not included in the total area calculation.

SEE LANDSCAPE DRAWINGS

DIVISION 5.2 ENERGY EFFICIENCY

SECTION 5.201 GENERAL

5.201.1 Scope [BSC-CG]. ***California Energy Code [DSA-SS].*** For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory building standards.

DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION

SECTION 5.301 GENERAL

5.301.1 Scope. The provisions of this chapter shall establish the means of conserving water use indoors, outdoors and in wastewater conveyance.

SECTION 5.302 DEFINITIONS

5.302.1 Definitions. The following terms are defined in Chapter 2 *(and are included here for reference)*

EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAF) [DSA-SS]. An adjustment factor when applied to reference evapotranspiration that adjusts for plant factors and irrigation efficiency, which ae two major influences on the amount of water that needs to be applied to the landscape.

FOOTPRINT AREA [DSA-SS]. The total area of the furthest exterior wall of the structure projected to natural grade, not including exterior areas such as stairs, covered walkways, patios and decks.

METERING FAUCET. A self-closing faucet that dispenses a specific volume of water for each actuation cycle. The volume or cycle duration can be fixed or adjustable.

GRAYWATER. Pursuant to Health and Safety Code Section 17922.12, "graywater" means untreated wastewater that has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or operating wastes. "Graywater" includes, but is not limited to wastewater from bathtubs, showers, bathroom washbasins, clothes washing machines and laundry tubs, but does not include waste water from kitchen sinks or dishwashers.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). The California ordinance regulating landscape design, installation and maintenance practices that will ensure commercial, multifamily and other developer installed landscapes greater than 2500 square feet meet an irrigation water budget developed based on landscaped area and climatological parameters.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). [HCD] The California model ordinance (California Code of Regulations, Title 23, Division 2, Chapter 2.7), regulating landscape design, installation and maintenance practices. Local agencies are required to adopt the updated MWELO, or adopt a local ordinance at least as effective as the MWELO.

POTABLE WATER. Water that is drinkable and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards. See definition in the California Plumbing Code, Part 5.

POTABLE WATER. [HCD] Water that is satisfactory for drinking, culinary, and domestic puroses, and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards and the requirements of the Health Authority Having Jurisdiction.

RECYCLED WATER. Water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur [Water Code Section 13050 (n)]. Simply put, recycled water is water treated to remove waste matter attaining a quality that is suitable to use the water again.

SUBMETER. A meter installed subordinate to a site meter. Usually used to measure water intended for one purpose, such as landscape irrigation. For the purposes of CALGreen, a dedicated meter may be considered a submeter.

WATER BUDGET. Is the estimated total landscape irrigation water use which shall not exceed the maximum applied water allowance calculated in accordance with the Department of Water Resources Model Efficient Landscape Ordinance (MWELO).

SECTION 5.303 INDOOR WATER USE

5.303.1 METERS. Separate submeters or metering devices shall be installed for the uses described in Sections 503.1.1 and 503.1.2.

5.303.1.1 Buildings in excess of 50,000 square feet. Separate submeters shall be installed as follows:
PROJECT UNDER 50,000 sq.ft.

1. For each individual leased, rented or other tenant space within the building projected to consume more than 100 gal/day (380 L/day), including, but not limited to, spaces used for laundry or cleaners, restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop.
2. Where separate submeters for individual building tenants are unfeasible, for water supplied to the following subsystems:
   a. Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s).
   b. Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s).
   c. Steam and hot water boilers with energy input more than 500,000 Btu/h (147 kW).

5.303.1.2 Excess consumption. A separate submeter or metering device shall be provided for any tenant within a new building or within an addition that is projected to consume more than 1,000 gal/day.

PLUMB.

5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:

5.303.3.1 Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-Type toilets.

Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.

5.303.3.2 Urinals.
5.303.3.2.1 Wall-mounted Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush.

5.303.3.2.2 Floor-mounted Urinals. The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush.

5.303.3.3 Showerheads. [BSC-CG]
5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.

5.303.3.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time.
Note: A hand-held shower shall be considered a showerhead.

WATER CLOSETS, URINALS, AND SHOWERHEADS IN THIS PROJECT MEET THESE REQUIREMENTS. SEE PLUMBING DRAWINGS FOR SPECIFICS.

CAL-GREEN GENERAL NOTES

1. **THIS PROJECT IS A NON-RESIDENTIAL BUILDING ALTERATION THAT EXCEEDS A PERMIT VALUATION OF $200,000, THEREFORE CALIFORNIA GREEN BUILDING CODES WILL APPLY FOR THIS PROJECT.**

DISCLAIMER: *THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE 2016 CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.*

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ISSUE FOR PLAN REVIEW BACKCHECK	21 JAN 2022
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Rev.	Description	Date
	AGENCY APPROVAL	

ARCHITECT SEAL

LICENSED ARCHITECT
MATTHEW S. GREINER
NO. C27137
REN.: 10-31-2023
STATE OF CALIFORNIA

CONSULTANT SEAL

Drawing Title:

CAL GREEN MANDATORY MEASURES

Issue Date: 01/21/2022
Project No.: 006240.00 Checked by: Checker

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AIA California

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2020, Includes August 2019 Supplement)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie; ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

Y	N/A	RESPON. PARTY	
		PLUMB.	**5.303.3.4 Faucets and fountains.**
			5.303.3.4.1 Nonresidential Lavatory faucets. Lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi.
			5.303.3.4.2 Kitchen faucets. Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.
			5.303.3.4.3 Wash fountains. Wash fountains shall have a maximum flow rate of not more than1.8 gallons per minute/20 [rim space (inches) at 60 psi].
			5.303.3.4.4 Metering faucets. Metering faucets shall not deliver more than 0.20 gallons per cycle.
			5.303.3.4.5 Metering faucets for wash fountains. Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per minute/20 [rim space (inches) at 60 psi].
			Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction. LAVATORY AND KITCHEN FAUCET IN THIS PROJECT MEET THESE REQUIREMENTS. SEE PLUMBING DRAWINGS FOR SPECIFICS.
☐	■		**5.303.4 COMMERCIAL KITCHEN EQUIPMENT.** PROJECT DOES NOT HAVE A COMMERCIAL KITCHEN
			5.303.4.1 Food Waste Disposers. Disposers shall either modulate the use of water to no more than 1 gpm when the disposer is not in use (not actively grinding food waste/no-load) or shall automatically shut off after no more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water. **Note:** This code section does not affect local jurisdiction authority to prohibit or require disposer installation.
☐	■		**5.303.5 AREAS OF ADDITION OR ALTERATION.** For those occupancies within the authority of the California Building Standards Commission as specified in Section 103, the provisions of Section 5.303.3 and 5.303.4 shall apply to new fixtures in additions or areas of alteration to the building. N/A PROJECT IS NEW CONSTRUCTION
■	☐	PLUMB.	**5.303.6 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS.** Plumbing fixtures and fittings shall be installed in accordance with the *California Plumbing Code*, and shall meet the applicable standards referenced in Table 1701.1 of the *California Plumbing Code* and in Chapter 6 of this code. SEE SHEET P001
			SECTION 5.304 OUTDOOR WATER USE
■	☐	LANDSC.	**5.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS.** Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.
			Notes: 1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulations, Title 23, Chapter 2.7, Division 2. 2. MWELO and supporting documents, including a water budget calculator, are available at: https://www.water.ca.gov/.
■	☐	LANDSC.	**5.304.6 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS.** For public schools and community colleges, landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, California Code of Regulations, except that the evapotranspiration adjustment factor (ETAF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35.
			Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MWELO.
			5.304.6.1 Newly constructed landscapes. New construction projects with an aggregate landscape area equal to or greater than 500 square feet.
			5.304.6.2 Rehabilitated landscapes. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 1,200 square feet.

DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

SECTION 5.401 GENERAL

5.401.1 SCOPE. The provisions of this chapter shall outline means of achieving material conservation and resource efficiency through protection of buildings from exterior moisture, construction waste diversion, employment of techniques to reduce pollution through recycling of materials, and building commissioning or testing and adjusting.

SECTION 5.402 DEFINITIONS

5.402.1 DEFINITIONS. The following terms are defined in Chapter 2 *(and are included here for reference)*

ADJUST. To regulate fluid flow rate and air patterns at the terminal equipment, such as to reduce fan speed or adjust a damper.

BALANCE. To proportion flows within the distribution system, including sub-mains, branches and terminals, according to design quantities.

BUILDING COMMISSIONING. A systematic quality assurance process that spans the entire design and construction process, including verifying and documenting that building systems and components are planned, designed, installed, tested, operated and maintained to meet the owner's project requirements.

ORGANIC WASTE. Food waste, green waste, landscape and pruning wste, nonhazardous wood waste, and food soiled paper waste that is mixed in with food waste.

TEST. A procedure to determine quantitative performance of a system or equipment

Y	N/A	RESPON. PARTY	
■	☐	LANDSC.	
		ARCH	
■	☐	CONT.	
■	☐	CONT.	
■	☐	TRI-CITY	

SECTION 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT

5.407.1 WEATHER PROTECTION. Provide a weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1402.2 (Weather Protection), manufacturer's installation instructions or local ordinance, whichever is more stringent.

5.407.2 MOISTURE CONTROL. Employ moisture control measures by the following methods.

5.407.2.1 Sprinklers. Design and maintain landscape irrigation systems to prevent spray on structures.

5.407.2.2 Entries and openings. Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows:

5.407.2.2.1 Exterior door protection. Primary exterior entries shall be covered to prevent water intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following:

1. An installed awning at least 4 feet in depth.
2. The door is protected by a roof overhang at least 4 feet in depth.
3. The door is recessed at least 4 feet.
4. Other methods which provide equivalent protection.

5.407.2.2.2 Flashing. Install flashings integrated with a drainage plane.

ALL PRIMARY DOOR OPENING ARE PROTECTED BY ROOF OVERHANGS OR AWNINGS, SEE PLANS

SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

5.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65% of the non-hazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.

5.408.1.1 Construction waste management plan. Where a local jurisdiction does not have a construction and demolition waste management ordinance, submit a construction waste management plan that:

1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale.
2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream).
3. Identifies diversion facilities where construction and demolition waste material collected will be taken.
4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated byweight or volume, but not by both.

5.408.1.2 Waste Management Company. Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with this section.

Note: The owner or contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company.

Exceptions to Sections 5.408.1.1 and 5.408.1.2:

1. Excavated soil and land-clearing debris.
2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist.
3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.

5.408.1.3 Waste stream reduction alternative. The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65% minimum requirement as approved by the enforcing agency.

5.408.1.4 Documentation. Documentation shall be provided to the enforcing agency which demonstrates compliance with Sections 5.408.1.1, through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency.

Notes:

1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located at www.bsc.ca.gov/Home/CALGreen.aspx may be used to assist in documenting compliance with the waste management plan.
2. Mixed construction and demolition debris processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).

CONTRACTOR SHALL PROVIDE CONSTRUCTION WASTE MANAGEMENT PLAN AND PROVIDE REQUIRED DOCUMENTATION.

5.408.2 UNIVERSAL WASTE. [A] Additions and alterations to a building or tenant space that meet the scoping provisions in Section 301.3 for nonresidential additions and alterations, shall require verification that Universal Waste items such as fluorescent lamps and ballast and mercury containing thermostats as well as other California prohibited Universal Waste materials are disposed of properly and are diverted from landfills. A list of prohibited Universal Waste materials shall be included in the construction documents.

CONTRACTOR SHALL PROVIDE UNIVERSAL WASTE MANAGEMENT PLAN AND PROVIDE REQUIRED DOCUMENTATION.

Note: Refer to the Universal Waste Rule link at: http://www.dtsc.ca.gov/LawsRegsPolicies/Regs/upload/OEAR-A_REGS_UWR_FinalText.pdf

5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS. 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed.

CONTRACTOR SHALL ABIDE THESE REGULATIONS

Exception: Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.

Notes:

1. If contamination by disease or pest infestation is suspected, contact the County Agricultural Commissioner and follow its direction for recycling or disposal of the material.
2. For a map of know pest and/or disease quarantine zones, consult with the California Department of Food and Agriculture. (www.cdfa.ca.gov)

SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS

5.410.1 RECYCLING BY OCCUPANTS. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive.

Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code 42649.82 (a)(2)(A) et seq. shall also be exempt from the organic waste portion of this section.

5.410.1.1 Additions. All additions conducted within a 12-month period under single or multiple permits, resulting in an increase of 30% or more in floor area, shall provide recycling areas on site.

Exception: Additions within a tenant space resulting in less than a 30% increase in the tenant space floor area.

5.410.1.2 Sample ordinance. Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the *Public Resources Code*. Chapter 18 is known as the California Solid Waste Reuse and Recycling Access Act of 1991 (Act).

Note: A sample ordinance for use by local agencies may be found in Appendix A of the document at the CalRecycle's web site.

EXISTING TRASH / RECYCLE ENCLOSURE LOCATED AT SOUTH SIDE OF THIS BUILDING SITE, AND IS ACCESSIBLE TO THE ENTIRE BUILDING.

Y	N/A	RESPON. PARTY	
■	☐	CxA	

5.410.2 COMMISSIONING. [N] New buildings 10,000 square feet and over. For new buildings 10,000 square feet and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements. Commissioning shall be performed in accordance with this section by trained personnel with experience on projects of comparable size and complexity. For I-occupancies that are not regulated by OSHPD or for I-occupancies and L-occupancies that are not regulated y the California Energy Code Section 100.0 Scope, all requirements in Sections 5.410.2 through 5.410.2.6 shall apply.

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting systems and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements

Commissioning requirements shall include:

1. Owner's or Owner representative's project requirements.
2. Basis of design.
3. Commissioning measures shown in the construction documents.
4. Commissioning plan.
5. Functional performance testing.
6. Documentation and training.
7. Commissioning report.

Exceptions:

1. Unconditioned warehouses of any size.
2. Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within unconditioned warehouses.
3. Tenant improvements less than 10,000 square feet as described in Section 303.1.1.
4. Open parking garages of any size, or open parking garage areas, of any size, within a structure.

Note: For the purposes of this section, unconditioned shall mean a building, area, or room which does not provide heating and or air conditioning.

Informational Notes:

1. IAS AC 476 is an accreditation criteria for organizations providing training and/or certification of commissioning personnel. AC 476 is available to the Authority Having Jurisdiction as a reference for qualifications of commissioning personnel. AC 476 des not certify individuals to conduct functional performance tests or to adjust and balance systems.
2. Functional performance testing for heating, ventilation, air conditioning systems and lighting controls must be performed in compliance with the *California Energy Code*.

COMMISSIONING AUTHORITY (CxA) IS ON BOARD, AND PERFORMING COMMISSIONING REQUIREMENTS.

5.410.2.1 Owner's or Owner Representative's Project Requirements (OPR). [N] The expectations and requirements of the building appropriate to its phase shall be documented before the design phase of the project begins. This documentation shall include the following:

1. Environmental and sustainability goals.
2. Building sustainable goals.
3. Indoor environmental quality requirements.
4. Project program, including facility functions and hours of operation, and need for after hours operation.
5. Equipment and systems expectations.
6. Building occupant and operation and maintenance (O&M) personnel expectations.

OPR DOCUMENT COMPLETE & AVAILABLE ON REQUEST

5.410.2.2 Basis of Design (BOD). [N] A written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project. The Basis of Design document shall cover the following systems:

1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse system.

BOD DOCUMENT COMPLETE & AVAILABLE ON REQUEST

5.410.2.3 Commissioning plan. [N] Prior to permit issuance a commissioning plan shall be completed to document how the project will be commissioned. The commissioning plan shall include the following:

1. General project information.
2. Commissioning goals.
3. Systems to be commissioned. Plans to test systems and components shall include:
   a. An explanation of the original design intent.
   b. Equipment and systems to be tested, including the extent of tests.
   c. Functions to be tested.
   d. Conditions under which the test shall be performed.
   e. Measurable criteria for acceptable performance.
4. Commissioning team information.
5. Commissioning process activities, schedules and responsibilities. Plans for the completion of commissioning shall be included.

COMMISSIONING PLAN IN PROGRESS.

5.410.2.4 Functional performance testing. [N] Functional performance tests shall demonstrate the correct installation and operation of each component, system and system-to-system interface in accordance with the approved plans and specifications. Functional performance testing reports shall contain information addressing each of the building components tested, the testing methods utilized, and include any readings and adjustments made.

5.410.2.5 Documentation and training. [N] A Systems Manual and Systems Operations Training are required, including Occupational Safety and Health Act (OSHA) requirements in *California Code of Regulations* (CCR), Title 8, Section 5142, and other related regulations.

5.410.2.5.1 Systems manual. [N] Documentation of the operational aspects of the building shall be completed within the systems manual and delivered to the building owner or representative. The systems manual shall include the following:

1. Site information, including facility description, history and current requirements.
2. Site contact information.
3. Basic operations and maintenance, including general site operating procedures, basic troubleshooting, recommended maintenance requirements, site events log.
4. Major systems.
5. Site equipment inventory and maintenance notes.
6. A copy of verifications required by the enforcing agency or this code.
7. Other resources and documentation, if applicable.

5.410.2.5.2 Systems operations training. [N] A program for training of the appropriate maintenance staff for each equipment type and/or system shall be developed and documented in the commissioning report and shall include the following:

1. System/equipment overview (what it is, what it does and with what other systems and/or equipment it interfaces).
2. Review and demonstration of servicing/preventive maintenance.
3. Review of the information in the Systems Manual.
4. Review of the record drawings on the system/equipment.

5.410.2.6 Commissioning report. [N] A report of commissioning process activities undertaken through the design and construction phases of the building project shall be completed and provided to the owner or representative.

☐	■		**5.410.4 TESTING AND ADJUSTING. New buildings less than 10,000 square feet.** Testing and adjusting of systems shall be required for new buildings less than 10,000 square feet or new systems to serve an addition or alteration subject to Section 303.1. THIS PROJECT IS ABOVE 10,000 SF.
			5.410.4.2 (Reserved)
			Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting system and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements and Sections 120.5, 120.6, 130.4, and 140.9(b)3 for additional testing requirements of specific systems.
			5.410.4.2 Systems. Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include at a minimum, as applicable to the project:
			1. Renewable energy systems. 2. Landscape irrigation systems. 3. Water reuse systems.
			5.410.4.3 Procedures. Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards on each system.
			5.410.4.3.1 HVAC balancing. In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards; the National Environmental Balancing Bureau Procedural Standards; Associated Air Balance Council National Standards or as approved by the enforcing agency.

Y	N/A	RESPON. PARTY	
☐	■		
			5.410.4.4 Reporting. After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services.
			5.410.4.5 Operation and maintenance (O & M) manual. Provide the building owner or representative with detailed operating and maintenance instructions and copies of guaranties/warranties for each system. O & M instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related regulations.
			5.410.4.5.1 Inspections and reports. Include a copy of all inspection verifications and reports required by the enforcing agency.

DIVISION 5.5 ENVIRONMENTAL QUALITY

SECTION 5.501 GENERAL

5.501.1 SCOPE. The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.

SECTION 5.502 DEFINITIONS

5.502.1 DEFINITIONS. The following terms are defined in Chapter 2 *(and are included here for reference)*

ARTERIAL HIGHWAY. A general term denoting a highway primarily for through traffic usually on a continuous route.

A-WEIGHTED SOUND LEVEL (dBA). The sound pressure level in decibels as measured on a sound level meter using the internationally standardized A-weighting filter or as computed from sound spectral data to which A-weighting adjustments have been made.

1 BTU/HOUR. British thermal units per hour, also referred to as Btu. The amount of heat required to raise one pound of water one degree Fahrenheit per hour, a common measure of heat transfer rate. A ton of refrigeration is 12,000 Btu, the amount of heat required to melt a ton (2,000 pounds) of ice at 32° Fahrenheit.

COMMUNITY NOISE EQUIVALENT LEVEL (CNEL). A metric similar to the day-night average sound level (Ldn), except that a 5 decibel adjustment is added to the equivalent continuous sound exposure level for evening hours (7pm to 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn.

COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, timber, prefabricated wood I-joists or finger–jointed lumber, all as specified in California Code of Regulations (CCR), Title 17, Section 93120.1(a).

Note: See CCR, Title 17, Section 93120.1.

DAY-NIGHT AVERAGE SOUND LEVEL (Ldn). The A-weighted equivalent continuous sound exposure level for a 24-hour period with a 10 dB adjustment added to sound levels occurring during nighttime hours (10p.m. to 7 a.m.).

DECIBEL (db). A measure on a logarithmic scale of the magnitude of a particular quantity (such as sound pressure, sound power, sound intensity) with respect to a reference quantity.

ELECTRIC VEHICLE (EV). An automotive-type vehicle for on-road use, such as passenger automobiles, buses, trucks, vans, neighborhood electric vehicles, electric motorcycles, and the like, primarily powered by an electric motor that draws current from a rechargeable storage battery, fuel cell, photovoltaic array, or other source of electric current. Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the *California Electrical Code*, off-road, self-propelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline ground support equipment, tractors, boats, and the like, are not included.

ELECTRIC VEHICLE CHARGING STATION(S) (EVCS)). One or more spaces intended for charging electric vehicles.

ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). The conductors, including the ungrounded, grounded, and equipment grounding conductors and the electric vehicle connectors, attachment plugs, and all other fittings, devices, power outlets, or apparatus installed specifically for the purpose of transferring energy between the premises wiring and the electric vehicle.

ENERGY EQUIVALENT (NOISE) LEVEL (Leq). The level of a steady noise which would have the same energy as the fluctuating noise level integrated over the time of period of interest.

EXPRESSWAY. An arterial highway for through traffic which may have partial control of access, but which may or may not be divided or have grade separations at intersections.

FREEWAY. A divided arterial highway with full control of access and with grade separations at intersections.

GLOBAL WARMING POTENTIAL (GWP). The radiative forcing impact of one mass-based unit of a given greenhouse gas relative to an equivalent unit of carbon dioxide over a given period of time. Carbon dioxide is the reference compound with a GWP of one.

GLOBAL WARMING POTENTIAL VALUE (GWP VALUE). A 100-year GWP value published by the Intergovernmental Panel on Climate Change (IPCC) in either its Second Assessment Report (SAR) (IPCC, 1995); or its Fourth Assessment A-3 Report (AR4) (IPCC, 2007). The SAR GWP values are found in column "SAR (100-yr)" of Table 2.14.; the AR4 GWP values are found in column "100 yr" of Table 2.14.

HIGH-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that is: (a) a chlorofluorocarbon, a hdrochlorofluorocarbon, a hydrofluorocarbon, a perfluorocarbon, or any compound or blend of compounds, with a GWP value equal to or greater than 150, or (B) any ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

LONG RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.5 times the pipe diameter.

LOW-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that: (A) has a GWP value less than 150, and (B) is not an ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

MERV. Filter minimum efficiency reporting value, based on ASHRAE 52.2–1999.

MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base REactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundreths of a gram (g O^3/g ROC).

PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging).

PSIG. Pounds per square inch, guage.

REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere.

SCHRADER ACCESS VALVES. Access fittings with a valve core installed.

SHORT RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.0 times the pipe diameter.

SUPERMARKET. For the purposes of Section 5.508.2, a supermarket is any retail food facility with 8,000 square feet or more conditioned area, and that utilizes either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units.

VOC. A volatile organic compound broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a)

Note: Where specific regulations are cited from different agencies such as SCAQMD, ARB, etc., the VOC definition included in that specific regulation is the one that prevails for the specific measure in question.

SECTION 5.503 FIREPLACES

5.503.1 FIREPLACES. Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed woodstove or pellet stove, and refer to residential requirements in the California Energy Code, Title 24, Part 6, Subchapter 7, Section 150. Woodstoves, pellet stoves and fireplaces shall comply with applicable local ordinances.

5.503.1.1 Woodstoves. Woodstoves and pellet stoves shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits:

THIS PROJECT DOES NOT HAVE ANY FIREPLACES OR WOOD STOVES

SECTION 5.504 POLLUTANT CONTROL

■	☐	CONT.	**5.504.1 TEMPORARY VENTILATION.** The permanent HVAC system shall only be used during construction if necessary to condition the building or areas of addition or alteration within the required temperature range for material and equipment installation. If the HVAC system is used during construction, use return air filters with a Minimum Efficiency Reporting Value (MERV) of 8, based on ASHRAE 52.2-1990, or an average efficiency of 30% based on ASHRAE 52.1-1992 Replace all filters immediately prior to occupancy, or, if the building is occupied during alteration, at the conclusion of construction. CONTRACTOR TO COMPLY
■	☐	CONT.	**5.504.3 Covering of duct openings and protection of mechanical equipment during construction.** At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilation equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system. CONTRACTOR TO COMPLY

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ISSUE FOR PLAN REVIEW BACKCHECK	21 JAN 2022
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Rev.	Description	Date
	AGENCY APPROVAL	

ARCHITECT SEAL



CONSULTANT SEAL

Drawing Title:

CAL GREEN MANDATORY MEASURES

Issue Date: 01/21/2022
Project No.: 006240.00 Checked by: Checker

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AIA California

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2020, Includes August 2019 Supplement)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

Y	N/A	RESPON. PARTY	
■	□	CONT.	**5.504.4 FINISH MATERIAL POLLUTANT CONTROL.** Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.6.

5.504.4.1 Adhesives, sealants and caulks. Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards:

1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products as specified in subsection 2, below.

2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of *California Code of Regulations*, Title 17, commencing with Section 94507.

CONTRACTOR TO DOCUMENT COMPLIANCE WITH ADHESIVE, SEALANT & CAULK REQUIREMENTS

TABLE 5.504.4.1 - ADHESIVE VOC LIMIT[1,2]

Less Water and Less Exempt Compounds in Grams per Liter

ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
INDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOR CARPET ADHESIVES	150
WOOD FLOORING ADHESIVES	100
RUBBER FLOOR ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
VCT & ASPHALT TILE ADHESIVES	50
DRYWALL & PANEL ADHESIVES	50
COVE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVES	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVES NOT SPECIFICALLY LISTED	50
SPECIALTY APPLICATIONS	
PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR PLASTIC	550
CONTACT ADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP & TRIM ADHESIVE	250
SUBSTRATE SPECIFIC APPLICATIONS	
METAL TO METAL	30
PLASTIC FOAMS	50
POROUS MATERIAL (EXCEPT WOOD)	50
WOOD	30
FIBERGLASS	80

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.

2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF

TABLE 5.504.4.2 - SEALANT VOC LIMIT

Less Water and Less Exempt Compounds in Grams per Liter

SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NONPOROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

5.504.4.3 Paints and coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36 and 4.37 of the 2007 California Air Resources Board Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply.

5.504.4.3.1 Aerosol Paints and coatings. Aerosol paints and coatings shall meet the PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) of *California Code of Regulations*, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49.

CONTRACTOR TO DOCUMENT COMPLIANCE WITH PAINT AND COATINGS REQUIREMENTS

TABLE 5.504.4.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS[2,3]

GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS

COATING CATEGORY	CURRENT VOC LIMIT
FLAT COATINGS	50
NONFLAT COATINGS	100
NONFLAT HIGH GLOSS COATINGS	150
SPECIALTY COATINGS	
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH-TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS[1]	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS:	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB & TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340

1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS

2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.

3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

5.504.4.3.2 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:

1. Manufacturer's product specification
2. Field verification of on-site product containers

CONTRACTOR TO PROVIDE FINISH MATERIAL DOCUMENTATION UPON REQUEST

5.504.4.4 Carpet Systems. All carpet installed in the building interior shall meet at least one of the testing and product requirements:

1. Carpet and Rug Institute's Green Label Plus Program.
2. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1, February 2010 (also known as CDPH Standard Method V1.1 or Specification 01350).
3. NSF/ANSI 140 at the Gold level or higher;
4. Scientific Certifications Systems Sustainable Choice; or
5. Compliant with the Collaborative for High Performance Schools California (2014 CA-CHPS) Criteria listed in the CHPS High Performance Product Database.

5.504.4.4.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute Green Label program.

5.504.4.4.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 5.504.4.1.

SEE SPECS FOR COMPLYING CARPET

5.504.4.5 Composite wood products. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120 et seq.). Those materials not exempted under the ATCM must meet the specified emission limits, as shown in Table 5.504.4.5.

5.504.4.5.3 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:

1. Product certifications and specifications.
2. Chain of custody certifications.
3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.).
4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269 or European 636 3S standards.
5. Other methods acceptable to the enforcing agency.

TABLE 5.504.4.5 - FORMALDEHYDE LIMITS[1]

MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION

PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLE BOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD[2]	0.13

1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.

2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCHES (8 MM).

CONTRACTOR TO DOCUMENT COMPLIANCE WITH COMPOSITE REQUIREMENTS

5.504.4.6 Resilient flooring systems. For 80 percent of floor area receiving resilient flooring, installed resilient flooring shall meet at least one of the following:

SEE SPECS FOR COMPLYING RESILIENT FLOORING

1. Certified under the Resilient Floor Covering Institute (RFCI) FloorScore program;
2. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health's 2010 Standard Method for the Testing and Evaluation Chambers, Version 1.1, February 2010;
3. Compliant with the Collaborative for High Performance Schools California (2014 CA-CHPS) Criteria and listed in the CHPS High Performance Product Database; or
4. Products certified under UL GREENGUARD Gold (formerly the Greenguard Children's & Schools Program).

5.504.4.6.1 Verification of compliance. Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits.

5.504.5.3 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV) of 13. MERV 13 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

Exceptions: Existing mechanical equipment.

5.504.5.3.1 Labeling. Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.

■	□	ARCH	**5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL.** Where outdoor areas are provided for smoking, prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows and within the building as already prohibited by other laws or regulations; or as enforced by ordinances, regulations or policies of any city, county, city and county, California Community College, campus of the California State University, or campus of the University of California, whichever are more stringent. When ordinances, regulations or policies are not in place, post signage to inform building occupants of the prohibitions.

"NO SMOKING" SIGNAGE NEAR EVERY BUILDING ENTRY. SEE SIGNAGE DETAILS

SECTION 5.505 INDOOR MOISTURE CONTROL

■	□	MECH	**5.505.1 INDOOR MOISTURE CONTROL.** Buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see Section 5.407.2 of this code.

DESIGN PROVIDED WITHIN MECHANICAL PLANS.

SECTION 5.506 INDOOR AIR QUALITY

■	□	MECH	**5.506.1 OUTSIDE AIR DELIVERY.** For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements For Ventilation) of the *California Energy Code*, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.

DESIGN PROVIDED WITHIN MECHANICAL PLANS.

■	□	MECH	**5.506.2 CARBON DIOXIDE (CO_2) MONITORING.** For buildings or additions equipped with demand control ventilation, CO_2 sensors and ventilation controls shall be specified and installed in accordance with the requirements of the California Energy Code, Section 120(c)(4).

DESIGN PROVIDED WITHIN MECHANICAL PLANS.

SECTION 5.507 ENVIRONMENTAL COMFORT

■	□	ARCH	**5.507.4 ACOUSTICAL CONTROL.** Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E 90 and ASTM E 413, or Outdoor-Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E 1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.

DESIGN PROVIDED WITHIN PLANS.

Exception: Buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings.

Exception: [DSA-SS] For public schools and community colleges, the requirements of this section and all subsections apply only to new construction.

5.507.4.1 Exterior noise transmission, prescriptive method. Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations:

1. Within the 65 CNEL noise contour of an airport.

Exceptions:

1. L_{dn} or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan.
2. L_{dn} or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element.

2. Within the 65 CNEL or L_{dn} noise contour of a freeway or expressway, railroad, industrial source or fixed-guideway source as determined by the Noise Element of the General Plan.

5.507.4.1.1. Noise exposure where noise contours are not readily available. Buildings exposed to a noise level of 65 dB L_{eq} - 1-hr during any hour of operation shall have building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).

5.507.4.2 Performance Method. For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (Leq-1Hr) of 50 dBA in occupied areas during any hour of operation.

5.507.4.2.1 Site Features. Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.

5.507.4.2.2 Documentation of Compliance. An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.

DESIGN PROVIDED WITHIN PLANS.

5.507.4.3 Interior sound transmission. Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.

DESIGN PROVIDED WITHIN PLANS.

Note: Examples of assemblies and their various STC ratings may be found at the California Office of Noise Control: www.toolbase.org/PDF/CaseStudies/stc_icc_ratings.pdf.

SECTION 5.508 OUTDOOR AIR QUALITY

■	□	MECH	**5.508.1 Ozone depletion and greenhouse gas reductions.** Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.

ALL HVAC SYSTEMS WILL COMPLY

5.508.1.1 Chlorofluorocarbons (CFCs). Install HVAC, refrigeration and fire suppression equipment that do not contain CFCs.

5.508.1.2 Halons. Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.

□ ■

5.508.2 Supermarket refrigerant leak reduction. New commercial refrigeration systems shall comply with the provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.

Exception: Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO_2), and potentially other refrigerants.

5.508.2.1 Refrigerant piping. Piping compliant with the California Mechanical Code shall be installed to be accessible for leak protection and repairs. Piping runs using threaded pipe, copper tubing with an outside diameter (OD) less than 1/4 inch, flared tubing connections and short radius elbows shall not be used in refrigerant systems except as noted below.

5.508.2.1.1 Threaded pipe. Threaded connections are permitted at the compressor rack.

5.508.2.1.2 Copper pipe. Copper tubing with an OD less than 1/4 inch may be used in systems with a refrigerant charge of 5 pounds or less.

5.508.2.1.2.1 Anchorage. One-fouth-inch OD tubing shall be securely clamped to a rigid base to keep vibration levels below 8 mils.

5.508.2.1.3 Flared tubing connections. Double-flared tubing connections may be used for pressure controls, valve pilot lines and oil.

Exception: Single-flared tubing connections may be used with a multiring seal coated with industrial sealant suitable for use with refrigerants and tightened in accordance with manufacturer's recommendations.

5.508.2.1.4 Elbows. Short radius elbows are only permitted where space limitations prohibit use of long radius elbows.

5.508.2.2 Valves. Valves Valves and fittings shall comply with the *California Mechanical Code* and as follows.

5.508.2.2.1 Pressure relief valves. For vessels containing high-GWP refrigerant, a rupture disc shall be installed between the outlet of the vessel and the inlet of the pressure relief valve.

5.508.2.2.1.1 Pressure detection. A pressure gauge, pressure transducer or other device shall be installed in the space between the rupture disc and the relief valve inlet to indicate a disc rupture or discharge of the relief valve.

5.508.2.2.2 Access valves. Only Schrader access valves with a brass or steel body are permitted for use.

5.508.2.2.2.1 Valve caps. For systems with a refrigerant charge of 5 pounds or more, valve caps shall be brass or steel and not plastic.

5.508.2.2.2.2 Seal caps. If designed for it, the cap shall have a neoprene O-ring in place.

5.508.2.2.2.2.1 Chain tethers. Chain tethers to fit ovr the stem are required for valves designed to have seal caps.

Exception: Valves with seal caps that are not removed from the valve during stem operation.

5.508.2.3 Refrigerated service cases. Refrigerated service cases holding food products containing vinegar and salt shall have evaporator coils of corrosion-resistant material, such as stainless steel; or be coated to prevent corrosion from these substances.

5.508.2.3.1 Coil coating. Consideration shall be given to the heat transfer efficiency of coil coating to maximize energy efficiency.

5.508.2.4 Refrigerant receivers. Refrigerant receivers with capacities greater than 200 pounds shall be fitted with a device tha indicates the level of refrigerant in the receiver.

5.508.2.5 Pressure testing. The system shall be pressure tested during installation prior to evacuation and charging.

5.508.2.5.1 Minimum pressure. The system shall be charged with regulated dry nitrogen and appropriate tracer gas to bring system pressure up to 300 psig minimum.

5.508.2.5.2 Leaks. Check the system for leaks, repair any leaks, and retest for pressure using the same gauge.

5.508.2.5.3 Allowable pressure change. The system shall stand, unaltered, for 24 hours with no more than a +/- one pound pressure change from 300 psig, measured with the same gauge.

5.508.2.6 Evacuation. The system shall be evacuated after pressure testing and prior to charging.

5.508.2.6.1 First vacuum. Pull a system vacuum down to at least 1000 microns (+/- 50 microns), and hold for 30 minutes.

5.508.2.6.2 Second vacuum. Pull a second system vacuum to a minimum of 500 microns and hold for 30 minutes.

5.508.2.6.3 Third vacuum. Pull a third vacuum down to a minimum of 300 microns, and hold for 24 hours with a maximum drift of 100 microns over a 24-hour period.

N/A, THIS PROJECT DOES NOT HAVE A SUPERMARKET REFRIGERATION SYSTEM.

CHAPTER 7
INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS

702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

CONTRACTOR TO CONFIRM

1. State certified apprenticeship programs.
2. Public utility training programs.
3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations.
4. Programs sponsored by manufacturing organizations.
5. Other programs acceptable to the enforcing agency.

702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:

1. Certification by a national or regional green building program or standard publisher.
2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors.
3. Successful completion of a third party apprentice training program in the appropriate trade.
4. Other programs acceptable to the enforcing agency.

Notes:

1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.
2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).

[BSC-CG] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.

Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

703 VERIFICATIONS

703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.

CONTRACTOR TO PROVIDE DOCUMENTATION UPON REQUEST

DISCLAIMER: *THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE 2016 CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.*

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ISSUE FOR PLAN REVIEW BACKCHECK	21 JAN 2022
ISSUE FOR PLAN REVIEW	27 OCT 2021
ISSUE FOR PLANNING	15 DEC 2020
ISSUE FOR GRADING PERMIT	03 DEC 2020

Rev.	Description	Date
	AGENCY APPROVAL	

ARCHITECT SEAL

LICENSED ARCHITECT
MATTHEW S. GREINER
NO. C27137
REN.: 10-31-2023
STATE OF CALIFORNIA

CONSULTANT SEAL

Drawing Title:

CAL GREEN MANDATORY MEASURES

Issue Date: 01/21/2022
Project No.: 006240.00 Checked by: Checker

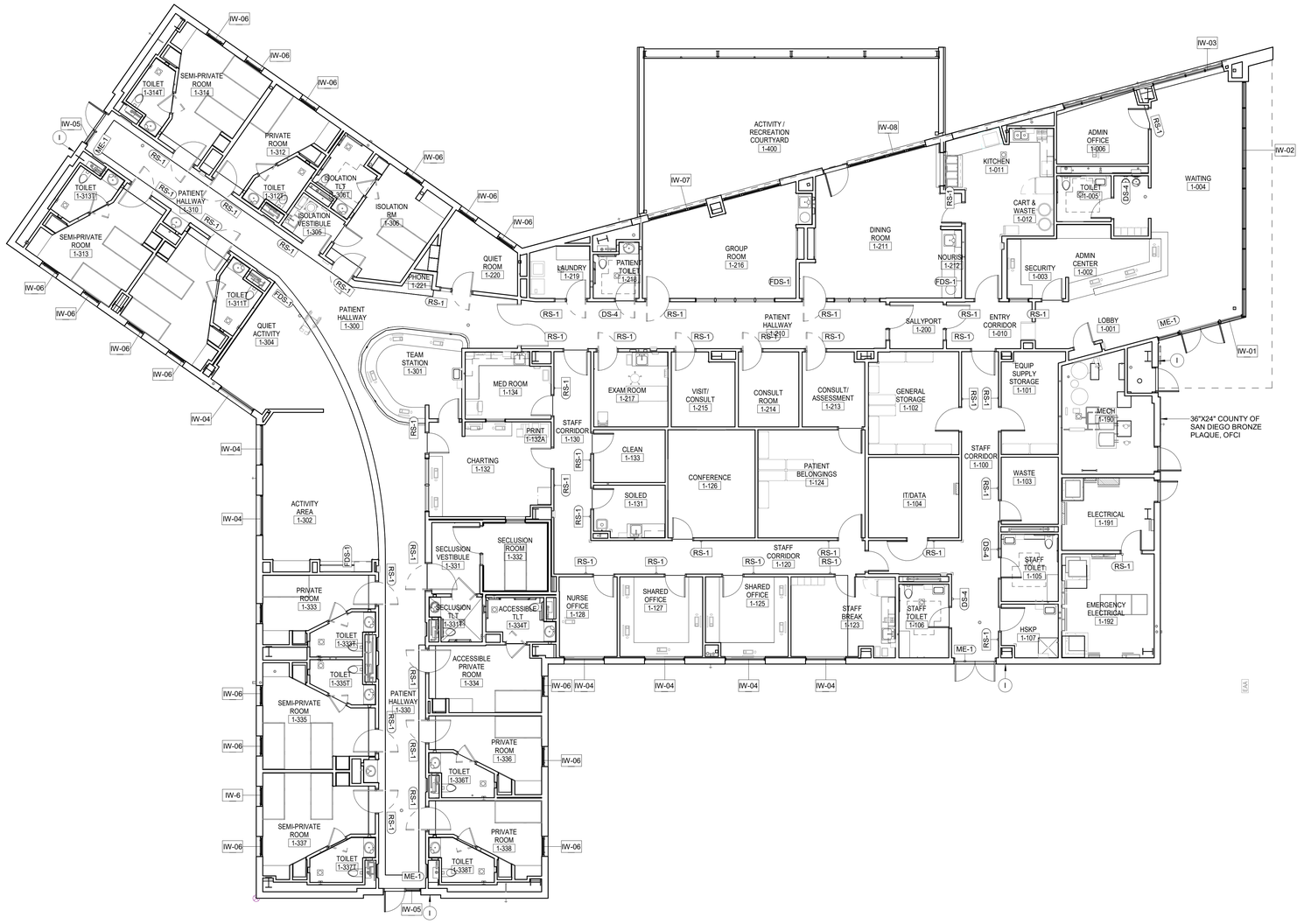
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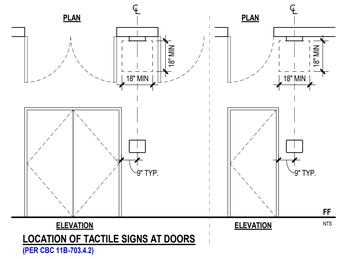
CODE REQUIRED SIGNAGE SCHEDULE - LEVEL 1	
Sign Type	**Description**
DS-4	INFORMATIONAL AND DIRECTIONAL -TOILET ROOM - UNISEX
FDS-1	FIRE CODE INFORMATIONAL AND DIRECTIONAL - OCCUPANT LIMIT
ME-1	MEANS OF EGRESS - EXIT
RS-1	ROOM SIGNAGE - PERMANENT

CODE REQUIRED SIGNAGE NOTES	
NOTE	**DESCRIPTION**



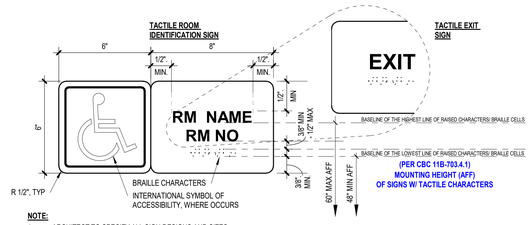
1 LEVEL 01 PLAN
1/8" = 1'-0"

- WALL-MOUNTED SIGNAGE TO BE LOCATED ON THE LATCH/ STRIKE SIDE OF DOOR OR ON THE NEAREST ADJACENT WALL IN CASE NO WALL SPACE IS AVAILABLE.
- 18" x 18" MIN. CLEAR FLOOR SPACE, CENTERED ON TACTILE CHARACTERS - CLEAR OF DOOR-SWING FOR SINGLE DOORS & WHERE DOUBLE DOOR SWING IS LIMITED TO 90°.



LOCATION OF TACTILE SIGNS AT DOORS
(PER CBC 11B-703.4.2)

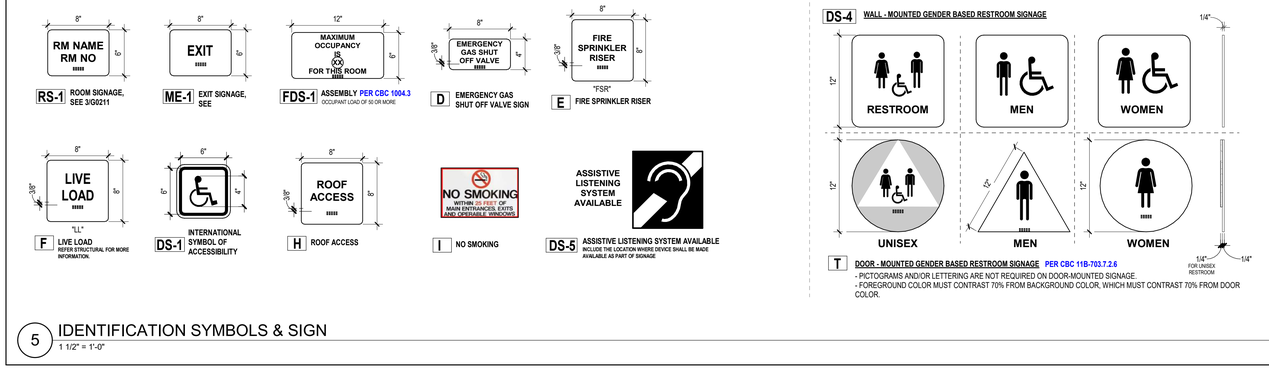
3 SIGNAGE LOCATION
3" = 1'-0"



NOTE:
1. ARCHITECT TO SPECIFY ALL SIGN DESIGNS AND SIZES.
2. IDENTIFICATION SIGNAGE FOR ROOM/ SPACE SHALL BE PROVIDED ON THE APPROACH SIDE OF THE DOOR & EXIT SIGNAGE IN THE DIRECTION OF EGRESS PATH.
3. SIGN MATERIAL TO BE 1/8" THK PLASTIC, W/ 1/32" MIN RAISED BORDER, GRAPHICS AND LETTERS ABOVE THEIR BACKGROUND.
4. PROVIDE MECHANICAL MOUNTING W/ VANDAL RESISTANT FASTENERS.
5. EXIT SIGNS TO BE ILLUMINATED AS REQUIRED. PER CBC 1013.3
6. REFER TO FOR GENERAL SIGNAGE NOTES & FOR MORE INFORMATION ON SIGNAGE LOCATION.

(PER CBC 11B-703)

2 TACTILE ROOM
3" = 1'-0"



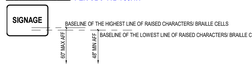
5 IDENTIFICATION SYMBOLS & SIGN
1 1/2" = 1'-0"

RESTROOM SIGNAGE

- PICTOGRAMS AND/OR LETTERING ARE NOT REQUIRED ON DOOR-MOUNTED SIGNAGE.
- FOREGROUND COLOR MUST CONTRAST 70% FROM BACKGROUND COLOR, WHICH MUST CONTRAST 70% FROM DOOR COLOR.

SIGN LOCATIONS:
1. ALL ACCESSIBLE ENTRANCES TO BE IDENTIFIED WITH MINIMUM OF ONE STANDARD SIGN.
2. ADDITIONAL DIRECTIONAL SIGNS ALONG ACCESSIBLE PATH OF TRAVEL ARE REQUIRED.
3. TO BE READ IN CONJUNCTION WITH SIGNAGE PLAN AND/OR OTHER TYPICAL DETAILS.
4. REFER TO DETAIL FOR MORE INFORMATION ON SIGNAGE LOCATION.

MOUNTING HEIGHT: PER CBC 11B-703.4.1



PICTOGRAMS: PER CBC 11B-703.6
1. SHALL HAVE A FIELD HT OF 6" MIN.
2. CHARACTERS & BRAILLE SHALL NOT BE LOCATED IN THE PICTOGRAM FIELD.
3. SHALL HAVE TEXT DESCRIPTORS PLACED DIRECTLY BELOW THE PICTOGRAM FIELD.
4. PICTOGRAMS & THEIR FIELD SHALL HAVE A NON-GLARE FINISH AND SHALL CONTRAST WITH EACH OTHER.

INTERNATIONAL SYMBOL OF ACCESSIBILITY: PER CBC 11B-703.7.2.1
1. STANDARD SYMBOL, USED TO IDENTIFY ACCESSIBLE FACILITIES.
2. WHITE ISA FIGURE ON BLUE BACKGROUND (COLOR #15090 IN FEDERAL STANDARD #595B)
3. WHEN ENFORCING AGENCY DETERMINES, IF APPROPRIATE, SPECIAL DESIGNS AND COLORS MAY BE APPROVED.

RAISED CHARACTERS (LETTERS & NUMBERS) ON SIGNS: PER CBC 11B-703.2 + 1117B.5

1. CHARACTER TYPE:
- CHARACTERS SHALL BE RAISED 1/32" (0.794 mm) MIN, ABOVE THEIR BACKGROUND
- SHALL BE SANS SERIF UPPERCASE
- TO BE ACCOMPANIED BY GRADE #2 BRAILLE

2. CHARACTER HEIGHT:
- SHALL BE A MIN OF 5/8" (15.9 mm) & A MAX OF 2" (51mm) HIGH, MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER.

3. FINISH AND CONTRAST:
- CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUNDS MUST BE 70% MIN & ALL SURFACES TO HAVE A NON-GLARE FINISH.

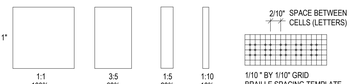
4. CHARACTER PROPORTIONS:
- WIDTH-TO-HEIGHT RATIO OF BETWEEN 3:5 AND 1:1
- STROKE WIDTH-TO-HEIGHT RATIO OF BETWEEN 1:5 & 1:10.
- CHARACTERS SHALL BE SELECTED FROM FONTS WHERE WIDTH OF UPPERCASE LETTER "O" IS 60% MIN & 110% MAX OF THE HT OF THE UPPERCASE LETTER "I". AFTER CHOOSING A TYPESTYLE TO TEST, BEGIN BY PRINTING THE LETTERS 'I', 'X', AND 'O' AT 1" HIGH. PLACE THE TEMPLATE'S 1:1 SQUARE OVER THE 'X' OR 'O', WHICHEVER IS NARROWER. IF THE CHARACTER IS NOT WIDER THAN 1", NOR NARROWER THAN THE 3:5 RECTANGLE, THE PROPORTIONS ARE CORRECT. USE THE 1:5 RECTANGLE TO DETERMINE IF THE STROKE OF THE 'I' IS TOO BROAD, AND THE 1:10 RECTANGLE TO SEE IF IT IS TOO NARROW. IF ALL THE TESTS ARE PASSED, THE TYPESTYLE IS COMPLIANT WITH PROPORTION CODE.
- STROKE THICKNESS OF UPPERCASE LETTER "I" SHALL BE 10% MIN. & 20% MAX OF THE HT OF CHARACTER.



CHARACTER PROPORTIONS
WIDTH-TO-HEIGHT PROPORTIONS TEMPLATE

STROKE PROPORTIONS

TEMPLATE FOR CHECKING CHARACTER AND STROKE WIDTH TO HEIGHT PROPORTIONS:

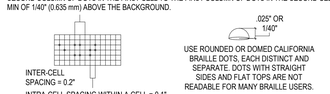


CHARACTER WIDTH

STROKE WIDTH

BRAILLE SPACING TEMPLATE PER TITLE 24 **SIGNAGE TEMPLATES**

5. BRAILLE CONTRACTED: PER CBC 11B-703.3 + 1117B.5.6
- CALIFORNIA CONTRACTED GRADE #2 BRAILLE SHALL BE USED WHEREVER BRAILLE SYMBOLS ARE SPECIFICALLY REQUIRED IN OTHER PORTIONS OF THESE STANDARDS.
- BRAILLE SHALL BE PLACED BELOW ALL LINES OF TACTILE TEXTS WHEN TACTILE TEXT IS MULTILINED.
- DOTS SHALL BE 1/10" (2.54 mm) ON CENTERS IN EACH CELL WITH 2/10" (5.08 mm) SPACE BETWEEN CELLS, MEASURED FROM THE SECOND COLUMN OF DOTS IN THE FIRST CELL TO THE FIRST COLUMN OF DOTS IN THE SECOND CELL. DOTS SHALL BE RAISED A MIN OF 1/40" (0.635 mm) ABOVE THE BACKGROUND.



BRAILLE CELL

USE ROUNDED OR DOMED CALIFORNIA BRAILLE DOTS, EACH DISTINCT AND SEPARATE. DOTS WITH STRAIGHT SIDES AND FLAT TOPS ARE NOT READABLE FOR MANY BRAILLE USERS.

SQUARED DOTS ARE NOT ACCEPTABLE

BRAILLE DOT

4 GENERAL SIGNAGE NOTES
1" = 1'-0"

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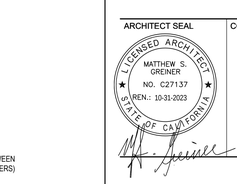
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ISSUE FOR PLANNING	15 DEC 2020
ISSUE FOR GRADING PERMIT	03 DEC 2020

Rev.	Description	Date
	AGENCY APPROVAL	

ARCHITECT SEAL



CONSULTANT SEAL

Drawing Title:

LEVEL 01 AREA A SIGNAGE PLAN

Issue Date: 01/21/2022

Project No.: 006240.00 Checked by: Checker

G0211

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ENERGY CODE INFORMATION

STATE ENERGY CODE STANDARD	2019 TITLE 24
ENERGY CODE ADOPTION DATE	ADOPTION: MAR, 2018 PUBLICATION: JAN 1, 2019
ENERGY CODE EFFECTIVE DATE	JAN 1, 2020
ENRGY CODE ANTICIPATED REVISION DATE	2022
STATE ENFORCEMENT	CALIFORNIA
APPROVED COMPLIANCE TOOLS	ENERGY PRO
	ComCheck is only a valid compliance tool if the project will comply with the PRESCRIPTIVE REQUIREMENTS for the all of the following: building envelope, building mechanical systems, service water heating systems, and electrical power and lighting systems in their entirety.
CURRENT CLIMATE ZONE	CLIMATE ZONE 7
ADOPTED ENERGY CODE CLIMATE ZONE	CLIMATE ZONE 7
CALIFORNIA TITLE 24 CLIMATE ZONE	CLIMATE ZONE 7
WARM / HUMID	WARM
MOIST / DRY / MARINE	MARINE
DESIGN ENERGY CODE STANDARD	2019 TITLE 24
ENERGY CODE COMPLIANCE PATHWAY	PERFORMANCE METHOD

DESIGN DATA EXCHANGE (DDx) INFORMATION

YEAR OF CONTRACT DOCUMENTS ISSUANCE	2020
YEAR OF OCCUPANCY	2022
DDx CONSTRUCTION TYPE	TYPE IIB CBC 2019
STORIES	1
MARKET SECTOR	HEALTHCARE
BUILDING TYPE	INPATIENT MEDICAL
CBECS PRIMARY BUILDING TYPE	ONPATIENT MEDICAL
CBECS ANCILLARY TYPE 1	
CBECS ANCILLARY TYPE 2	
CBECS ANCILLARY TYPE 3	
CITY	OCEANSIDE
COUNTY	SAN DIEGO
STATE	CA
ZIP CODE	92056
COUNTRY	U.S.

DESIGN DATA EXCHANGE (DDx) AREA TABLE

GROSS BUILDING AREA (GSF)	13,560
CBECS PRIMARY BUILDING TYPE AREA	13,560
CBECS ANCILLARY TYPE 1 AREA	
CBECS ANCILLARY TYPE 2 AREA	
CBECS ANCILLARY TYPE 3 AREA	

ENERGY MODELING

PREDICTED ENERGY USE INTENSITY(pEUI)	Bm EUI	Target EUI	bEUI	CURRENT DESIGN
kBTU/SF/YR	120.0	24.0	38.6	31.6
% REDUCTION FROM bEUI				18 %

LIGHTING POWER DENSITY (LPD)	Bm LPD	Target LPD	bLPD	CURRENT DESIGN
W/YR	-	-	0.81	0.65
% REDUCTION FROM bLPD				20 %

1. THE BASELINE BUILDING PERFORMANCE AND THE PROPOSED BUILDING PERFORMANCE NUMBERS ARE PRESENTED FOR COMPARISON PURPOSES, TO INFORM WHICH ENERGY CONSERVATION STRATEGIES HAVE THE MOST IMPACT.
2. NEITHER THE BASELINE BUILDING PERFORMANCE, NOR THE PROPOSED BUILDING PERFORMANCE ARE PREDICTIONS OF ACTUAL ENERGY CONSUMPTION OR ENERGY COSTS AND ARE NOT SUITABLE FOR OPERATIONAL BUDGETING OR OTHER DEFINITIVE FINANCIAL PLANNING PURPOSES.
3. THE ACTUAL ENERGY CONSUMPTION AND ENERGY EXPENDITURES OF THE BUILDING WILL DIFFER FROM THESE CALCULATIONS DUE TO VARIATIONS IN OCCUPANCY, BUILDING OPERATIONS, BUILDING MAINTENANCE, WEATHER, ENERGY USES NOT COVERED BY THIS ANALYTICAL PROCEDURE, AND CHANGES IN ENERGY RATES BETWEEN DESIGN OF THE BUILDING AND OCCUPANCY.

PRESCRIPTIVE REQUIREMENTS GENERAL NOTES

1. THE MINIMUM ENERGY PERFORMANCE REQUIREMENTS LISTED BELOW ARE FROM THE GOVERNING ENERGY CODE OR THE PROJECTS ADOPTED ENERGY STANDARD.
2. WHERE MINIMUM ENERGY PERFORMANCE REQUIREMENTS LISTED BELOW ARE BASED ON THE PRESCRIPTIVE PATH REQUIREMENTS OF THE GOVERNING ENERGY CODE, PROJECTS DEMONSTRATING ENERGY COMPLIANCE THROUGH WHOLE BUILDING ENERGY MODELING MAY HAVE COMPONENTS THAT DO NOT MEET THE PRESCRIPTIVE PATH REQUIREMENTS AND STILL HAVE ENERGY PERFORMANCE METRICS THAT MEET OR EXCEED OVERALL MINIMUM REQUIRED ENERGY PERFORMANCE.

OPAQUE BUILDING ENVELOPE PERFORMANCE

ROOF REFLECTIVE PRESCRIPTIVE REQUIREMENTS	REQUIRED	PROVIDED
THREE YEAR AGED SOLAR REFLECTANCE SOLAR REFLECTANCE INDEX (SRI)	0.74	0.74
THREE YEAR AGED THERMAL EMITTANCE	0.84	0.84

OPAQUE BUILDING ENVELOPE PRESCRIPTIVE REQUIREMENTS	U-VALUE COMPLIANCE METHOD	R-VALUE COMPLIANCE METHOD	
	U-MAX. REQUIRED	R-MIN. REQUIRED	PROVIDED U-VALUE
ROOFS			
INSULATION ENTIRELY ABOVE DECK	N/A		N/A
METAL BUILDING	U-0.041		0.033
ATTIC OR OTHER	N/A		N/A
OPAQUE WALLS			**PROVIDED**
MASS	N/A		N/A
METAL BUILDING	N/A		N/A
STEEL FRAMED	U-0.069		0.056
WOOD FRAMED AND OTHER	N/A		N/A
BELOW GRADE WALLS	N/A		N/A
FLOORS			**PROVIDED**
MASS	N/A		N/A
STEEL JOIST / FRAMED	N/A		N/A
WOOD JOIST / FRAMED	N/A		N/A
SLAB-ON-GRADE FLOORS			**PROVIDED**
UNHEATED	F-0.071		0.730
HEATED	N/A		N/A
OPAQUE DOORS			**PROVIDED**
SWINGING	U-0.7		0.20
NON-SWINGING	U-1.45		N/A

FENESTRATION PRESCRIPTIVE REQUIREMENTS

DAYLIGHTING OPPORTUNITIES	
PERCENTAGE OF THE NET FLOOR AREA IS IN DAYLIGHT ZONE	66.3%
VERTICAL FENESTRATION SUNSHADING	
DISTANCE HORIZONTALLY FROM FACE OF GLASS TO EDGE OF SHADING DEVICE IN INCHES	N/A
DISTANCE VERTICALLY FROM BOTTOM OF GLAZING SYSTEM TO BOTTOM OF SHADING DEVICE IN INCHES	N/A
PROJECTION RATIO (PR) = DISTANCE HORIZONTAL / DISTANCE VERTICAL	N/A

The energy code recognizes the benefits of shading devices and allows you to reduce the shading coefficient based on the effectiveness of the shading device which is determined by the Projection ratio. By filling out this section of the worksheet tool, the tool will automatically calculate any benefits provided by your shading ratio by altering the SHGC values in the VERTICAL FENESTRATION TABLE below.

VERTICAL FENESTRATION PRESCRIPTIVE REQUIREMENTS	U-VALUE	
	REQUIRED	PROVIDED
FIXED FENESTRATION	U-0.36	0.33
OPERABLE FENESTRATION	U-0.46	N/A
ENTRANCE DOORS	U-0.45	0.20

VERTICAL FENESTRATION PRESCRIPTIVE REQUIREMENTS	SGHC		
	REQUIRED	REQUIRED W/SHADING	PROVIDED
MAXIMUM VERTICAL FENESTRATION WINDOW TO WALL RATIO	40 %		21.3 %
SOLAR HEAT GAIN COEFFICIENT (SGHC) NORTH	0.31		0.27
SOLAR HEAT GAIN COEFFICIENT (SGHC) SOUTH , EAST, WEST	0.31		0.27

SKYLIGHT FENESTRATION PRESCRIPTIVE REQUIREMENTS	REQUIRED	PROVIDED
SKYLIGHT U- FACTOR	N/A	N/A
SOLAR HEAT GAIN COEFFICIENT (SGHC) NORTH	N/A	N/A

AIRTIGHTNESS PRESCRIPTIVE REQUIREMENTS

AIR BARRIER REQUIREMENTS	REQUIRED	PROVIDED
CONTINUOUS AIR BARRIER	YES	YES
VESTIBULE REQUIREMENTS	**REQUIRED**	**PROVIDED**
AT PRIMARY VISITOR BUILDING ENTRANCE	YES	YES
AT DOORS ADJACENT TO REVOLVING DOOR	YES	YES

EXCEPTIONS:

DOCK SEALS	REQUIRED	PROVIDED
REQUIRED AT ALL CARGO DOORS AND LOADING DOCK DOORS	N/A	N/A

MAXIMUM AIR LEAKAGE RATE FOR FENESTRATION ASSEMBLIES	REQUIRED MAX. RATE (CFM/FT²)	PROVIDED MAX. RATE (CFM/FT²)	TEST PROCEDURE
WINDOWS	0.3	0.01	
SLIDING DOORS	0.3	N/A	
SWINGING DOORS	0.3 SG, 1.0 DB	0.06	
SKYLIGHT-WITH CONDENSATION WEEP SYSTEM	N/A	N/A	
SKYLIGHTS ALL OTHER	N/A	N/A	
CURTAIN WALLS	0.3	0.06	
STOREFRONT GLAZING	0.3	0.06	
COMMERCIAL GLAZED SWINGING ENTRANCE DOORS	0.3	0.06	
POWER OPERATED SLIDING DOORS	N/A	N/A	
REVOLVING DOORS	N/A	N/A	
GARAGE DOORS	N/A	N/A	
ROLLING DOORS	N/A	N/A	
HIGH SPEED DOORS	N/A	N/A	
Doors and access openings to shafts, chutes, stairways, and shafts			

EXCEPTIONS:

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	AGENCY APPROVAL	

ARCHITECT SEAL

LICENSED ARCHITECT
MATTHEW S. GREINER
NO. C27137
REN.: 10-31-2023
STATE OF CALIFORNIA

CONSULTANT SEAL

Drawing Title:

ENERGYDESIGN

Issue Date: 01/21/2022

Project No.: 006240.00 Checked by: Checker

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SHEET INDEX

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SHEET 3	GENERAL NOTES
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SHEET 5	EXISITING CONDITION – SOUTH
SHEET 6	DEMOLITION AND EROSION CONTROL PLAN – NORTH
SHEET 7	DEMOLITION AND EROSION CONTROL PLAN – SOUTH
SHEET 8	GRADING AND DRAINAGE – NORTH
SHEET 9	GRADING AND DRAINAGE – SOUTH
SHEET 10	HORIZONTAL CONTROL AND PAVING PLAN – NORTH
SHEET 11	HORIZNTAL CONTROL AND PAVING PLAN – SOUTH
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SHEET 14	LID
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SHEET 19	DETAILS
SHEET 20	DETAILS
SHEET 21	PROFILES

LEGEND

PROPOSED IMPROVEMENTS ITEM	SYMBOL
LIMIT OF WORK	
GRAVEL BAGS	
DEMOLITION LINE	
CONSTRUCTION FENCE	
DIRECTION OF FLOW	
STORM WATER DIVERSION SWALE W/CHECKDAMS	
STORM DRAIN LINE	SD
SANITARY SEWER PER DETAIL 1, DETAIL 2, AND DETAIL 3, SHEET 16	SS
SANITARY SEWER FORCE MAIN DIP OR AWWA C900 PRESSURE PIPE	FM
WATER MAIN PER DETAIL 4, AND DETAIL 5, SHEET 16	W
DOMESTIC WATER SERVICE LATERAL	DW
FIRE WATER SERVICE LATERAL	FW
ELECTRICAL LINE	E
COMMUNICATION LINE	C
GAS LINE	
GRADE BREAK	GB GB
RIDGE LINE	R R R
EARTHEN SWALE	
SAWCUT AND JOIN	
GRADE SLOPE (HORIZONTAL:VERTICAL)	TOP / TOE
FENCING	X
GRADING BENCH	
PROPOSED MAJOR CONTOUR	100
PROPOSED MINOR CONTOUR	102
MANHOLE	
CATCH BASIN	
CLEANOUT PER GS-509	
RETAINING/SEAT WALL	
ROOF DRAIN DOWNSPOUT	
FIRE HYDRANT PER DETAIL 2, AND DETAIL 6, SHEET 16.	
FIRE DEPARTMENT CONNECTION (FDC) PER DETAIL 7, SHEET 16.	
BACKFLOW ASSEMBLY PER DETAIL 1, SHEET 17.	
UTILITY METER VAULT PER DETAIL 2, SHEET 17.	
CLEANOUT PER DETAIL 3, SHEET 15.	
NON-RISING STEM GATE VALVE PER DETAIL 3, SHEET 17.	
POST-INDICATOR VALVE PER DETAIL 3 AND DETAIL 4, SHEET 17.	
PUBLIC UTILITY POC.	
RESTRAINED JOINT COUPLING ADAPTER.	

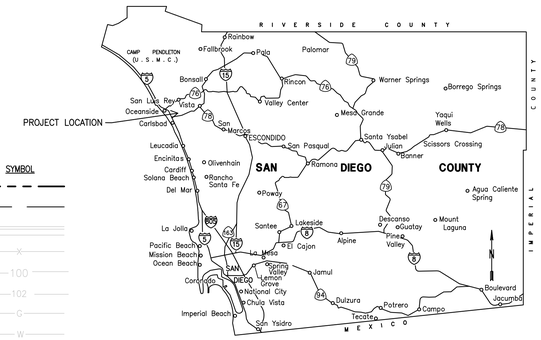
EXISTING IMPROVEMENTS ITEM	SYMBOL
PROPERTY LINE/RIGHT OF WAY LINE	
LOT LINE	
CURB/BACK OF CURB/GUTTER (PVT)	
FENCE/GATE	X
MAJOR CONTOUR	100
MINOR CONTOUR	102
GAS	G
WATER (PVT)	W
ELECTRIC (PVT)	E
BUS STOP SIGN	
LIGHT POLE	
TREE	
ELECTRIC PULLBOX	
CLEANOUT	

COUNTY OF SAN DIEGO, CALIFORNIA

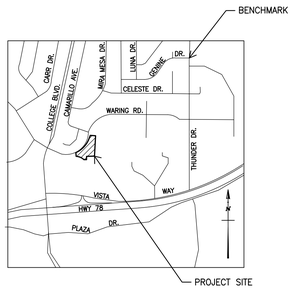
PLANS FOR CONSTRUCTION OF

TRI-CITY MEDICAL CENTER PSYCHIATRIC HEALTH FACILITY

4002 VISTA WAY OCEANSIDE, CA 92056



SITE LOCATION MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE
THOMAS BROS: PG 1107

PROPERTY DATA TABLE	
APN	1660103700
AREA (ACRE)	2.68
FEMA MAP/PANEL	06073C0766G

RELATED PERMITS		
AHJ	PERMIT TYPE	PERMIT NUMBER
CITY OF OCEANSIDE	DEVELOPMENT PLAN	D21-00004
CITY OF OCEANSIDE	CONDIT'L USE PERMIT	CUP21-0004

GRADING PLAN DESIGN CERTIFICATES

1. ALL GRADING SHALL BE DONE UNDER THE OBSERVATION OF A QUALIFIED SOILS ENGINEER AND ENGINEERING GEOLOGIST AND IN ACCORDANCE WITH THE RECOMMENDATIONS AND SPECIFICATIONS SET FORTH IN THE APPROVED SOILS AND GEOLOGICAL REPORT PREPARED BY: CONSTRUCTION TESTING & ENGINEERING, INC. DATED: JANUARY 6, 2020

2. THESE GRADING PLANS HAVE BEEN REVIEWED BY THE UNDERSIGNED AND ARE FOUND TO BE IN CONFORMANCE WITH THE RECOMMENDATIONS AND SPECIFICATIONS OUTLINED IN THE SOILS AND GEOLOGICAL REPORT PREPARED FOR THIS DEVELOPMENT.

BY: DANIEL T. MATH R.C.E NO. 2665 DATE: _____

BY: _____ R.C.E NO. _____ DATE: _____

R.C.E. STAMP

SOILS ENGINEER CERTIFICATION (AS-BUILT)

WE HEREBY CERTIFY THAT WE HAVE PROVIDED PROFESSIONAL TESTING AND APPROVAL CONCERNING THE PREPARATION OF GROUND TO RECEIVE FILLS. TESTING FOR REQUIRED COMPACTION, STABILITY OF ALL FINISH SLOPES, DESIGN OF BUTTRESS FILLS WERE REQUIRED, THE ADEQUACY OF THE NATURAL GROUND FOR RECEIVING FILLS, THE STABILITY OF CUT SLOPES WITH RESPECT TO GEOLOGICAL MATTERS AND THE NEED FOR SUBDRAINS AND OTHER GROUNDWATER DRAINAGE DEVICES, AND THE THESE GRADING PLANS ACCURATELY REFLECT ALL CONDITIONS AND CONSTRUCTING RECOMMENDATIONS PREPARED FOR THIS PROJECT AS DATED: _____, _____, _____, _____, _____, _____, _____

SOILS ENGINEER OF RECORD: _____ NAME _____ LICENSE NO.

ENGINEERING GEOLOGIST OF RECORD: DANIEL T. MATH 2665 NAME LICENSE NO.

R.C.E. STAMP

"DECLARATION OF ENGINEER OF WORK"

I HEREBY DECLARE THAT THE DESIGN OF THE IMPROVEMENTS AS SHOWN ON THESE PLANS COMPLIES WITH PROFESSIONAL ENGINEERING STANDARDS AND PRACTICES. AS THE ENGINEER IN RESPONSIBLE CHARGE OF THE DESIGN OF THESE IMPROVEMENTS, I ASSUME FULL RESPONSIBLE CHARGE FOR SUCH DESIGN, I UNDERSTAND AND ACKNOWLEDGE THAT THE PLAN CHECK OF THESE PLANS BY THE CITY OF OCEANSIDE IS REVIEW FOR THIS LIMITED PURPOSE OF ENSURING THE PLANS COMPLY WITH CITY PROCEDURES AND OTHER APPLICABLE POLICIES AND ORDINANCES. THE PLAN CHECK IS NOT A DETERMINATION OF THE TECHNICAL ADEQUACY OF THE DESIGN IMPROVEMENTS. SUCH PLAN CHECK DOES NOT, THEREFORE, RELIVE ME OF MY RESPONSIBILITY FOR THE DESIGN OF THESE IMPROVEMENTS.

AS ENGINEER OF WORK, I AGREE TO INDEMNIFY AND SAVE THE CITY OF OCEANSIDE, ITS OFFICERS AGENTS, AND EMPLOYEE HARMLESS FORM ANY AND ALL LIABILITY, CLAIMS, DAMAGES OR INJURIES TO ANY PERSON OR PROPERTY WHICH MIGHT ARISE FROM THE NEGLIGENT ACTS, ERRORS OR OMISSIONS OF THE ENGINEER OF WORK, MY EMPLOYEES, AGENTS OR CONSULTANT.

REGISTERED PROFESSIONAL ENGINEER JEFFREY B. GAVAZZA No. C59894 Exp. 12/31/23 CIVIL STATE OF CALIFORNIA

JEFFREY B. GAVAZZA C59894 12/31/21

ENGINEER LICENSE NO. DATE:

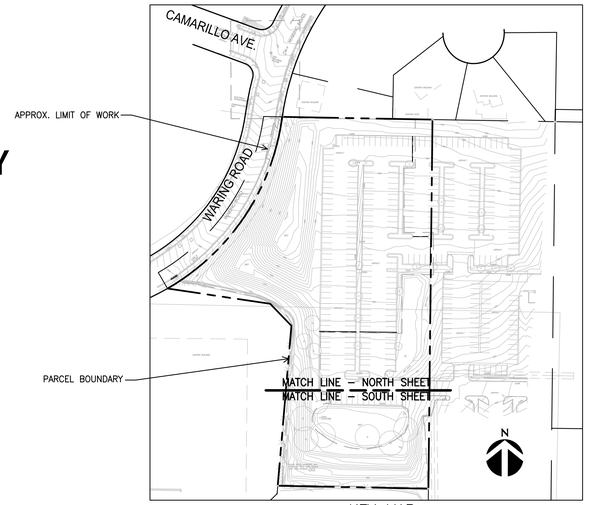
CIVIL ENGINEER CERTIFICATION (AS-BUILT)

I HEREBY CERTIFY THAT AS THE ENGINEER IN RESPONSIBLE CHARGE OF WORK FOR THIS PROJECT, I HAVE SUPERVISED THE CONSTRUCTION OF THE ENGINEERING WORK AS SHOWN ON THESE PLANS INCLUDING THE PERIODIC OBSERVATION OF MATERIALS AND COMPLETED WORK TO DETERMINE GENERAL COMPLIANCE WITH PLANS AND SPECIFICATIONS, AND THAT THE COMPLETED CONSTRUCTION IS IN CONFORMANCE WITH THESE PLANS.

I ALSO CERTIFY THAT ALL CHANGES AND/OR ADDITIONS MADE DURING CONSTRUCTION, ALL INFORMATION AS REQUIRED BY THE CITY OF OCEANSIDE GRADING ORDINANCE, AND ALL RECOMMENDATIONS FROM THE SOILS ENGINEERING AND ENGINEERING GEOLOGY REPORTS PREPARED FOR THIS PROJECT HAVE BEEN INCORPORATED IN THESE PLANS.

CIVIL ENGINEER OF RECORD: JEFFREY B. GAVAZZA C59894 NAME LICENSE NO.

REGISTERED PROFESSIONAL ENGINEER JEFFREY B. GAVAZZA No. C59894 Exp. 12/31/23 CIVIL STATE OF CALIFORNIA



KEY MAP
1" = 100'

ABBREVIATIONS

GUARD POST	GP	DRIVEWAY	DWY
SIGN	-o-	CONTROL	CTRL
INDICATES FOUND MONUMENT AS NOTED	● ●	CENTER	CTR
		ENCLOSURE	ENCL
SIDEWALK	SWK	BACK OF WALL	BW
HANDICAPPED RAMP	HCR	MECHANICAL	MECH
NORTH	N	PROPERTY LINE	PL
NORTHEAST	NE	PROPERTY CORNER	PC
SOUTH	S	RADIAL BEARING	(RAD)
SOUTHEAST	SE	DELTA ANGLE	Δ=
EAST	E	RADIUS	R=
SOUTHWEST	SW	LENGTH	L=
WEST	W	MOTORCYCLE	M.C.
NORTHWEST	NW	FLAG POLE	FP
NORTHEASTERLY	NELY	PLANTER	PNTR
SOUTHEASTERLY	SELY	UNKNOWN MANHOLE	UMH
SOUTHWESTERLY	SWLY	UNKNOWN RISER	UR
NORTHWESTERLY	NWLY	UNKNOW CONTROL BOX	UCB
HANDICAPPED	HC	UNKNOWN CLEAN OUT	UCO
TRASH ENCLOSURE	TE	UNKNOWN VAULT	UVT
WROUGHT IRON	W.I.	RECORD OF SURVEY	R.O.S.
BUILDING HEIGHT	B.H.	PARCEL MAP	P.M.
COLUMN	CLM		

GENERAL NOTES

1. SAN DIEGO COASTAL COMMISSION PERMIT: ___ REQUIRED _X_ NOT REQUIRED

2. PROJECT INTENDS TO EXPORT GREATER THAN 500 CY'D. FROM SITE, BORROW PIT PERMIT REQUIRED PERV, ORDINANCE. ORDINANCE 3792, AMENDING SECTION 34 OF THE ZONING ORDINANCE.

3. NOI# _____

4. A SEPARATE ROW PLAN EXISTS FOR STREET WORK RELATED TO THIS PROJECT WITHIN THE ROW. REFERENCE THE ENCLOSED PLANS FOR PRIVATE, ON-SITE WORK ONLY.

5. BACKGROUND INFORMATION PROVIDED IS A COMBINATION OF PROJECT SPECIFIC SURVEY, AS-BUILT RECORDS AND RECORDED FIELD CONDITIONS. CONTRACTOR SHALL VERIFY INFORMATION PROVIDED AS PART OF THE CONSTRUCTION PROCESS.

LEGAL DESCRIPTION

PARCEL 1 OF PARCEL MAP NO. 14133 IN THE CITY OF OCEANSIDE, COUNTY OF SAN DIEGO STATE OF CALIFORNIA, FILED IN THE OFFICE OF THE COUNTY OF RECORDER OR SAN DIEGO COUNTY. JANUARY 27, 1986 AS INSTRUMENT NO. 86-033865, F OFFICIAL RECORDS.

BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS MAP IS NORTH 89°56'08" WEST, BETWEEN FOUND MONUMENTS AS SHOWN ON THAT CERTAIN MAP, PARCEL MAP NO. 19566.

kpff
700 South Flower Street
Suite 2100
Los Angeles, CA 90017
O: 213.418.0201
www.kpff.com

PLANS APPROVED BY: TRAFFIC DIVISION	PLANS APPROVED BY: FIRE DEPARTMENT	PLANS APPROVED BY: PLANNING DEPARTMENT	GEOTECHNICAL CONSULTANT APPROVAL CITY OF OCEANSIDE
CITY TRAFFIC ENGINEER DATE	FIRE MARSHALL DATE	CITY PLANNER DATE	PLANS ARE CHECKED AND FOUND TO COMPLY WITH THEY CITY OF OCEANSIDE REQUIREMENTS: APPROVED BY DATE

CITY BENCHMARK

Description: City of Vista point station No. "V2024" per R.O.S. 14023. Being a 2" Aluminum cap on ⅝" rebar, flush with AC pavement, tamped "Hunsaker & Assoc. GPS. control point 2024"

Location: Intersection of Thunder Drive and Genie Drive.

Record From: _____

Elev. 306.79 Datum: NGVD29

COUNTY APPROVED CHANGES

DESCRIPTION:	APPROVED BY:	DATE:

PRIVATE CONTRACT

SHEET 1	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	21 SHEETS

PRIORITY DEVELOPMENT PROJECT TITLE SHEET FOR:

TRI-CITY MEDICAL CENTER PSYCHIATRIC HEALTH FACILITY

CALIFORNIA COORDINATE INDEX 380-1700

APPROVED FOR WILLIAM P. MORGAN COUNTY ENGINEER

ENGINEER OF WORK: JEFF GAVAZZA, PE R.C.E. C59894

GRADING PERMIT NO: PDS2021-LDGRMJ-30378

ENGINEER'S NAME: EVAN LAKIN
PHONE NO. (213)266-5266 // EMAIL: EVAN.LAKIN@KPFF.COM

PERMANENT BMP_TEMPLATE (REV. 7/6/2017)

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P:\2019\1900773 Tri-City Med Center Behavioral Health Facility\5 CAD\Sheets_Onsite\1900773-C1001TS-DD.dwg, Jan 20, 2022 - 1:39pm

Tri-City Medical Center

Tri-City Medical Center Psychiatric Health Facility

4002 Vista Way
Oceanside, CA 92056

CANNONDESIGN
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Rev.	Description	Date
	ISSUE FOR PLAN REVIEW	21 JAN 2022
	BACKCHECK	
	ISSUE FOR PLAN REVIEW	27 OCT 2021
	ISSUE FOR PLANNING	15 DEC 2020
	ISSUE FOR GRADING PERMIT	03 DEC 2020
	AGENCY APPROVAL	

ARCHITECT SEAL

CONSULTANT SEAL

REGISTERED PROFESSIONAL ENGINEER JEFFREY B. GAVAZZA No. C59894 Exp. 12/31/23 CIVIL STATE OF CALIFORNIA

Drawing Title:

TITLE SHEET

Issue Date: 12/15/2021

Project No.: 006240.00 Checked by: AL/ EL

C1001

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GENERAL NOTES

1. ALL GRADING SHALL CONFORM TO THE REQUIREMENTS OF COUNTY GRADING ORDINANCE SECTION 87.101 THROUGH 87.804 AND SAN DIEGO COUNTY STANDARD DRAWINGS DS-8, DS-10, DS-11 AND D75.
2. APPROVAL OF THIS GRADING PLAN DOES NOT CONSTITUTE APPROVAL OF VERTICAL OR HORIZONTAL ALIGNMENT OF ANY PRIVATE ROAD SHOWN HEREON FOR COUNTY ROAD PURPOSES.
3. NATURAL DRAINAGE SHALL NOT BE DIVERTED OR CONCENTRATED ONTO ADJACENT PROPERTY.
4. FINAL APPROVAL OF THESE GRADING PLANS IS SUBJECT TO FINAL APPROVAL OF THE ASSOCIATED IMPROVEMENT PLANS WHERE APPLICABLE. FINAL CURB GRADE ELEVATIONS MAY REQUIRE CHANGES IN THESE PLANS.
5. IMPORT MATERIAL SHALL BE OBTAINED FROM A LEGAL SITE.
6. A CONSTRUCTION, EXCAVATION OR ENCROACHMENT PERMIT FROM THE DEPARTMENT OF PUBLIC WORKS WILL BE REQUIRED FOR ANY WORK IN THE COUNTY RIGHT-OF-WAY.
7. REGARDLESS OF WHICH BMPS ARE IMPLEMENTED, ALL SLOPES OVER THREE FEET IN HEIGHT WILL BE PLANTED AND MAINTAINED WITH GROUND COVER OR OTHER PLANTING IN ACCORDANCE WITH SAN DIEGO COUNTY SPECIFICATIONS TO PROTECT THE SLOPES AGAINST EROSION AND INSTABILITY. PLANTING SHALL COMMENCE AS SOON AS SLOPES ARE COMPLETED.
8. THE CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF ALL UTILITIES BEFORE COMMENCING WORK. NOTICE OF PROPOSED WORK SHALL BE GIVEN TO THE FOLLOWING AGENCIES:

	PHONE NUMBER:
SAN DIEGO GAS AND ELECTRIC	_____
AT&T TELEPHONE	_____
CATV (AGENCY NAME)	_____
SEWER (CITY OF OCEANSIDE)	(760) 435-5860
WATER (CITY OF OCEANSIDE)	(760) 435-5860

9. A SOILS REPORT WITH COMPACTION TEST IS REQUIRED FOR ALL FILL OVER 12' IN DEPTH. PDS FORM 73 MINOR GRADING CERTIFICATION AND A COPY OF THE COMPACTION REPORT IS REQUIRED PRIOR TO ROUGH GRADING APPROVAL.
10. APPROVAL OF THESE PLANS BY THE DIRECTOR OF DEPARTMENT OF PLANNING AND DEVELOPMENT SERVICES (PDS) DOES NOT AUTHORIZE ANY WORK OR GRADING TO BE PERFORMED UNTIL THE PROPERTY OWNER'S PERMISSION HAS BEEN OBTAINED AND VALID GRADING PERMIT HAS BEEN ISSUED.
11. THE DIRECTOR'S APPROVAL OF THESE PLANS DOES NOT CONSTITUTE COUNTY BUILDING OFFICIAL APPROVAL OF ANY FOUNDATION FOR STRUCTURES TO BE PLACED ON THE AREA COVERED BY THESE PLANS. NO WAIVER OF THE GRADING ORDINANCE REQUIREMENTS CONCERNING MINIMUM COVER OVER EXPANSIVE SOIL IS MADE OR IMPLIED (SECTIONS 87.403 & 87. 410). ANY SUCH WAIVER MUST BE OBTAINED FROM THE DIRECTOR OF PLANNING AND DEVELOPMENT SERVICES.
12. ALL OPERATIONS CONDUCTED ON THE PREMISES, INCLUDING THE WARMING UP, REPAIR, ARRIVAL, DEPARTURE OR RUNNING OF TRUCKS, EARTHMOVING EQUIPMENT, CONSTRUCTION EQUIPMENT AND ANY OTHER ASSOCIATED GRADING EQUIPMENT SHALL BE LIMITED TO THE PERIOD BETWEEN 7:00AM AND 6.00PM EACH DAY, MONDAY THROUGH SATURDAY, AND NO EARTHMOVING OR GRADING OPERATIONS SHALL BE CONDUCTED ON THE PREMISES ON SUNDAYS OR HOLIDAYS.
13. ALL MAJOR SLOPES SHALL BE ROUNDED INTO EXISTING TERRAIN TO PRODUCE A CONTOURED TRANSITION FROM CUT OR FILL FACES TO NATURAL GROUND AND ABUTTING CUT OR FILL SURFACES.
14. NOTWITHSTANDING THE MINIMUM STANDARDS SET FORTH IN THE GRADING ORDINANCE AND NOTWITHSTANDING THE APPROVAL OF THESE GRADING PLANS, THE PERMITTEE IS RESPONSIBLE FOR THE PREVENTION OF DAMAGE TO ADJACENT PROPERTY. NO PERSON SHALL EXCAVATE ON LAND SO CLOSE TO THE PROPERTY LINE AS TO ENDANGER ANY ADJOINING PUBLIC STREET, SIDEWALK, ALLEY, FUNCTION OF ANY SEWAGE DISPOSAL SYSTEM, OR ANY OTHER PUBLIC OR PRIVATE PROPERTY WITHOUT SUPPORTING AND PROTECTING SUCH PROPERTY FROM SETTLING, CRACKING, EROSION, SILTING, SCOUR OR OTHER DAMAGE WHICH MIGHT RESULT FROM THE GRADING DESCRIBED ON THIS PLAN. THE COUNTY WILL HOLD THE PERMITTEE RESPONSIBLE FOR CORRECTION OF NON-DEDICATED IMPROVEMENTS WHICH DAMAGE ADJACENT PROPERTY.
15. SLOPE RATIOS:
    CUT--1½: 1 FOR MINOR SLOPES (SLOPES < 15'), 2:1 FOR MAJOR SLOPES.
    FILL--2:1
    EXCAVATION: 3,500 C. Y. FILL: 2,900 C. Y. WASTE/IMPORT 390 C. Y.
    (NOTE: A SEPARATE VALID PERMIT MUST EXIST FOR EITHER WASTE OR IMPORT AREAS BEFORE PERMIT TO BE ISSUED).
16. SPECIAL CONDITION: IF ANY ARCHEOLOGICAL RESOURCES ARE DISCOVERED ON THE SITE OF THIS GRADING DURING GRADING OPERATIONS, SUCH OPERATIONS WILL CEASE IMMEDIATELY, AND THE PERMITTEE WILL NOTIFY THE DIRECTOR OF PUBLIC WORKS OF THE DISCOVERY. GRADING OPERATIONS WILL NOT RECOMMENCE UNTIL THE PERMITTEE HAS RECEIVED WRITTEN AUTHORITY FROM THE DIRECTOR OF PUBLIC WORKS TO DO SO.
17. PERMANENT POST-CONSTRUCTION BMP DEVICES SHOWN ON PLAN SHALL NOT BE REMOVED OR MODIFIED WITHOUT THE APPROVAL FROM THE DEPARTMENT OF PUBLIC OF WORKS.
18. THE APPLICANT IS RESPONSIBLE FOR THE ROAD MAINTENANCE (SWEEPING AS NECESSARY) AND REPAIRS OF ANY DAMAGE CAUSED BY THEM TO THE ON-SITE AND OFF-SITE COUNTY MAINTAINED OR PRIVATE ROADS THAT SERVE THE PROPERTY EITHER DURING CONSTRUCTION OR SUBSEQUENT OPERATIONS. THE APPLICANT WILL REPAIR THOSE PORTIONS OF THE ROUTE THAT WOULD BE DAMAGED BY THE HEAVY LOADS THAT LOADED TRUCKS PLACE ON THE ROUTE IDENTIFIED.
19. FINAL APPROVAL OF THIS GRADING PLAN IS SUBJECT TO FINAL APPROVAL OF THE ASSOCIATED IMPROVEMENT PLANS WHERE APPLICABLE. FINAL CURB GRADE ELEVATIONS MAY REQUIRE CHANGE TO THESE PLANS.
20. THE ENGINEER-OF-WORK SHALL COMPLY WITH ALL PROJECT APPLICABLE LAWS THAT INCLUDE, BUT ARE NOT LIMITED TO, HEALTH, SAFETY, AND ENVIRONMENTAL LAWS, ORDINANCES, AND REGULATIONS RELATING TO THE COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, AND U.S. FEDERAL GOVERNMENT. THE PROJECT IS SUBJECT TO ENFORCEMENT UNDER PERMITS FROM THE SAN DIEGO REGIONAL WATER QUALITY CONTROL BOARD (RWQCB) AND THE COUNTY OF SAN DIEGO WATERSHED PROTECTION, STORMWATER MANAGEMENT, AND DISCHARGE CONTROL ORDINANCE NO. 10410, COUNTY OF SAN DIEGO HYDRAULIC DESIGN MANUAL, AND ALL OTHER APPLICABLE ORDINANCES AND STANDARDS FOR THE LIFE OF THIS PERMIT. THE PROJECT SITE SHALL BE IN COMPLIANCE WITH ALL APPLICABLE STORMWATER REGULATIONS REFERENCED ABOVE AND ALL OTHER APPLICABLE ORDINANCES AND STANDARDS. THIS INCLUDES COMPLIANCE WITH THE APPROVED STORM WATER QUALITY MANAGEMENT PLAN (SWQMP), ALL REQUIREMENTS FOR LOW IMPACT DEVELOPMENT (LID), HYDROMODIFICATION, DETENTION FACILITIES, MATERIALS AND WASTES CONTROL, EROSION CONTROL, AND SEDIMENT CONTROL ON THE PROJECT SITE.
21. THE ISSUANCE OF THIS PERMIT/APPROVAL BY THE COUNTY OF SAN DIEGO DOES NOT AUTHORIZE THE APPLICANT FOR THE PERMIT/APPROVAL TO VIOLATE ANY FEDERAL, STATE, OR COUNTY LAWS, ORDINANCES, REGULATIONS, OR POLICIES INCLUDING, BUT NOT LIMITED TO THE FEDERAL ENDANGERED SPECIES ACT AND CLEAN WATER ACT. GRADING AND/OR FURTHER DEVELOPMENT ARE PROHIBITED WITHIN THE AREAS DESIGNATED "LIMITS OF JURISDICTIONAL HABITAT" UNTIL FEDERAL PERMITS AND STATE PERMITS (IF ANY) HAVE BEEN ACQUIRED.

EROSION CONTROL SWMP AND BMP NOTES REQUIRED ON PLAN

STORM WATER MANAGEMENT NOTES

1. ALL BUILDING PADS TO BE DIKED AND THE DIKES MAINTAINED TO PREVENT WATER FROM FLOWING FROM THE PAD UNTIL THE STREETS AND DRIVEWAYS ARE PAVED AND WATER CAN FLOW FROM THE PADS WITHOUT CAUSING EROSION, OR CONSTRUCT DRAINAGE FACILITIES TO THE SATISFACTION OF THE COUNTY DEPARTMENT OF PUBLIC WORKS THAT WILL ALLOW WATER TO DRAIN FROM THE PAD WITHOUT CAUSING EROSION.
2. TOPS OF ALL SLOPES TO BE DIKED OR TRENCHED TO PREVENT WATER FROM FLOWING OVER THE CREST OF THE SLOPES.
3. MANUFACTURED SLOPES AND PADS SHALL BE ROUNDED VERTICALLY AND HORIZONTALLY AS APPROPRIATE TO BLEND WITH THE SURROUNDING TOPOGRAPHY.
4. AS SOON AS CUTS OR EMBANKMENTS ARE COMPLETED, BUT NOT LATER THAN OCTOBER 1, ALL CUT AND FILL SLOPES SHALL BE STABILIZED WITH A HYDROMULCH MIXTURE OR AN EQUAL TREATMENT APPROVED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS. BETWEEN OCTOBER 1, AND APRIL 15, APPROVED SLOPE PROTECTION MEASURES SHALL PROCEED IMMEDIATELY BEHIND THE EXPOSURE OF CUT SLOPES AND/OR THE CREATION OF EMBANKMENT SLOPES.
5. CATCH BASINS, DESILTING BASINS AND STORM DRAIN SYSTEMS SHALL BE INSTALLED TO THE SATISFACTION OF THE COUNTY DEPARTMENT OF PUBLIC WORKS.
6. GRAVEL BAG CHECK DAMS TO BE PLACED IN A MANNER APPROVED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS IN UNPAVED STREETS WITH GRADIENTS IN EXCESS OF 2% AND ON OR IN OTHER GRADED OR EXCAVATED AREAS AS REQUIRED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS.
7. THE DEVELOPER TO MAINTAIN THE PLANTING AND EROSION CONTROL MEASURES DESCRIBED ABOVE UNTIL RELIEVED OF SAME BY THE COUNTY DEPARTMENT OF PUBLIC WORKS. THE DEVELOPER TO REMOVE ALL SOIL INTERCEPTED BY THE GRAVEL BAGS, CATCH BASINS AND DESILTING BASINS AND KEEP THESE FACILITIES CLEAN AND FREE OF SILT AND SAND AS DIRECTED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS. THE DEVELOPER SHALL REPAIR ANY ERODED SLOPES AS DIRECTED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS.

PERMANENT BMP_TEMPLATE (REV. 7/6/2017)

SILTATION AND SEDIMENT CONTROL MEASURES NOTES:

1. THE SEDIMENT BASINS SHALL BE PROVIDED AT THE LOWER END OF EVERY DRAINAGE AREA PRODUCING SEDIMENT RUNOFF. THE BASINS SHALL BE MAINTAINED AND CLEANED TO DESIGN CONTOURS AFTER EVERY RUNOFF PRODUCING STORM. THE BASINS SHOULD BE SEMI-PERMANENT STRUCTURES THAT WOULD REMAIN UNTIL SOIL STABILIZING VEGETATION HAS BECOME WELL ESTABLISHED ON ALL ERODIBLE SLOPES.
2. SEDIMENTATION BASINS MAY NOT BE REMOVED OR MADE INOPERATIVE WITHOUT PRIOR APPROVAL OF THE COUNTY ENGINEER.
3. SEWER OR STORM DRAIN TRENCHES THAT ARE CUT THROUGH BASIN DIKES OR BASIN INLET DIKES SHALL BE PLUGGED WITH GRAVEL BAGS FROM TOP OF PIPE TO TOP OF DIKE.
4. ALL UTILITY TRENCHES SHALL BE BLOCKED AT THE PRESCRIBED INTERVALS WITH A DOUBLE ROW OF GRAVEL BAGS WITH A TOP ELEVATION LEVEL WITH, AND TWO GRAVEL BAGS BELOW, THE GRADED SURFACE OF THE STREET. GRAVEL BAGS ARE TO BE PLACED WITH LAPPED COURSES. THE INTERVALS PRESCRIBED BETWEEN GRAVEL BAG BLOCKING SHALL DEPEND ON THE SLOPE OF THE GROUND SURFACE, BUT NOT EXCEED THE FOLLOWING:

GRADE OF THE STREET	INTERVAL
LESS THAN 2%	AS REQUIRED
2% TO 4%	100 FEET
4% TO 10%	50 FEET
OVER 10%	25 FEET

5. AFTER UTILITY TRENCHES ARE BACKFILLED AND COMPACTED, THE SURFACES OVER SUCH TRENCHES SHALL BE MOUNDED SLIGHTLY TO PREVENT CHANNELING OF WATER IN THE TRENCH AREA. CARE SHOULD BE EXERCISED TO PROVIDE FOR CROSS FLOW AT FREQUENT INTERVALS WHERE TRENCHES ARE NOT ON THE CENTERLINE OF A CROWNED STREET.
6. ALL BUILDING PADS SHOULD BE SLOPED TOWARDS THE DRIVEWAYS AND VELOCITY CHECK DAMS PROVIDED AT THE BASE OF ALL DRIVEWAYS DRAINING INTO THE STREET.
7. PROVIDE VELOCITY CHECK DAMS IN ALL UNPAVED GRADED CHANNELS AT THE INTERVALS INDICATED BELOW:

GRADE OF CHANNEL	INTERVALS BETWEEN CHECK DAMS
LESS THAN 3%	100 FEET
3% TO 6%	50 FEET
OVER 6%	25 FEET

8. PROVIDE VELOCITY CHECK DAMS IN ALL STREET AREAS ACCORDING TO INTERVALS INDICATED BELOW. VELOCITY CHECK DAMS MAY BE CONSTRUCTED OF GRAVEL BAGS, TIMBER, OR OTHER EROSION RESISTANT MATERIALS APPROVED BY THE COUNTY ENGINEER, AND SHALL EXTEND COMPLETELY ACROSS THE STREET OR CHANNEL AT RIGHT ANGLES TO THE CENTERLINE. VELOCITY CHECK DAMS MAY ALSO SERVE AS SEDIMENT TRAPS.

GRADE OF STREET LESS THAN 2%	INTERVAL AS REQUIRED	NUMBER OF BAGS HIGH
	200 FEET MAX	1
2% TO 4%	100 FEET	1
4% TO 6%	50 FEET	1
6% TO 10%	50 FEET	2
OVER 10%	25 FEET	2

9. PROVIDE A GRAVEL BAG SILT BASIN OR TRAP BY EVERY STORM DRAIN INLET TO PREVENT SEDIMENT FROM ENTERING DRAIN SYSTEM.
10. GRAVEL BAGS AND FILL MATERIAL SHALL BE STOCKPILED AT INTERVALS, READY FOR USE WHEN REQUIRED.
11. ALL EROSION CONTROL DEVICES WITHIN THE DEVELOPMENT SHOULD BE MAINTAINED DURING AND AFTER EVERY RUNOFF PRODUCING STORM, IF POSSIBLE, MAINTENANCE CREWS WOULD BE REQUIRED TO HAVE ACCESS TO ALL AREAS.
12. PROVIDE ROCK RIP RAP ON CURVES AND STEEP DROPS IN ALL EROSION PRONE DRAINAGE CHANNELS DOWNSTREAM FROM THE DEVELOPMENT. THIS PROTECTION WOULD REDUCE EROSION CAUSED BY THE INCREASED FLOWS THAT MAY BE ANTICIPATED FROM DENUDED SLOPES, OR IMPERVIOUS SURFACES.
13. ANY PROPOSED ALTERNATE CONTROL MEASURES MUST BE APPROVED IN ADVANCE BY ALL RESPONSIBLE AGENCIES; I.E., COUNTY ENGINEER, DEPARTMENT OF ENVIRONMENTAL HEALTH, FLOOD CONTROL AND OFFICE OF ENVIRONMENTAL MANAGEMENT ETC.

THE USE OF BFM'S IS SUBJECT TO THE FOLLOWING LIMITATIONS AND RESTRICTIONS:

1. APPLICATION RATES SHALL BE 3500 POUNDS PER ACRE MINIMUM FOR 2:1 OR SHALLOWER SLOPES AND 4000 POUNDS PER ACRE FOR SLOPES STEEPER THAN 2:1.
2. BFM SHALL BE APPLIED AT LEAST 24 HOURS BEFORE OR AFTER RAINFALL.
3. THE SITE MUST BE PROTECTED WITH BROW DITCHES AND / OR DIVERSION BERMS AT THE TOP OF SLOPES TO DIVERT FLOW FROM THE FACE OF THE SLOPE.
4. BFM SHALL BE APPLIED TO PROVIDE 100% COVERAGE (I.E. APPLICATION FROM MULTIPLE ANGLES).
5. FOR PERMANENT EROSION CONTROL PURPOSES, BFM MUST BE INSTALLED IN CONJUNCTION WITH SEEDED EROSION CONTROL VEGETATION.
6. A LETTER FROM THE HYDROSEED CONTRACTOR CERTIFYING THAT THE BFM HAS BEEN INSTALLED IN ACCORDANCE WITH THE APPROVED APPLICATION RATES AND COVERAGE REQUIREMENTS SHALL BE SUBMITTED TO THE COUNTY INSPECTOR FOR APPROVAL.

OWNERS CERTIFICATE

IT IS AGREED THAT FIELD CONDITIONS MAY REQUIRE CHANGES TO THESE PLANS.

IT IS FURTHER AGREED THAT THE OWNER (DEVELOPER) SHALL HAVE A REGISTERED CIVIL ENGINEER MAKE SUCH CHANGES ALTERATIONS OR ADDITIONS TO THESE PLANS WHICH THE DIRECTOR OF PLANNING & DEVELOPMENT SERVICES DETERMINES ARE NECESSARY AND DESIRABLE FOR THE PROPER COMPLETIONS OF THE IMPROVEMENTS.

BY: KPFF JEFF GAVAZZA, PE DATE: 11/18/2020

ASSESSOR'S PARCEL NO. 1660103700

NAME: DAVID DOBSON, COUNTY OF SAN DIEGO

ADDRESS: DEPT. OF GENERAL SERVICES
5560 OVERLAND AVENUE, SUITE 410
SAN DIEGO, CA 92123

PHONE: (972) 922-4268 (DIRECT)
(858) 694-3610 (MAIN)

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GEOTECHNICAL REPORT:

SITE PREP:

- THE STOCKPILE, PREVIOUSLY PLACED FILL AND NEAR SURFACE SOILS ARE CONSIDERED TO BE POTENTIALLY COMPRESSIBLE IN THEIR CURRENT CONDITION. THEREFORE, IT IS RECOMMENDED THAT THESE SOILS BE OVEREXCAVATED, WHERE NECESSARY, AND PROPERLY COMPACTED BENEATH PROPOSED IMPROVEMENT AREAS AS RECOMMENDED HEREIN AND AS DETERMINED TO BE NECESSARY DURING CONSTRUCTION.
- BASED ON LABORATORY TESTING, SOILS AT THE SITE MAY EXHIBIT LOW EXPANSION POTENTIAL (EXPANSION INDEX OF 50 OR LESS). HOWEVER, MEDIUM TO HIGHLY EXPANSIVE CLAYS ARE KNOWN TO EXIST IN THE AREA AND MAY BE ENCOUNTERED DURING SITE EXCAVATIONS AND GRADING. ADDITIONAL EVALUATION OF NEAR-SURFACE SOILS SHOULD BE PERFORMED BASED ON FIELD OBSERVATIONS PERFORMED DURING GRADING AND EXCAVATION ACTIVITIES.
- IN THE AREA OF THE PROPOSED STRUCTURE, EXISTING STOCKPILE AND FILL SOILS SHOULD BE REMOVED IN THEIR ENTIRETY. THE REMEDIAL EXCAVATIONS SHOULD BE CONDUCTED TO A MINIMUM DEPTH OF TWO FEET BELOW THE BOTTOM OF PROPOSED FOUNDATIONS OR TO THE DEPTH OF COMPETENT NATIVE MATERIALS, WHICHEVER IS GREATEST. IN ORDER TO PROVIDE RELATIVELY UNIFORM CONDITIONS UNDER THE PROPOSED STRUCTURE, THE MINIMUM DEPTH OF PROPOSED FILL SHOULD ALSO BE ONE HALF OF THE MAXIMUM DEPTH OF FILL BENEATH THE STRUCTURE FOOTPRINT. IF LOOSE OR OTHERWISE UNSUITABLE MATERIALS ARE ENCOUNTERED AT THE BASE OF OVEREXCAVATIONS, ADDITIONAL EXCAVATION TO THE DEPTH OF SUITABLE MATERIAL MAY BE NECESSARY. REMEDIAL EXCAVATIONS SHOULD EXTEND LATERALLY AT LEAST FIVE FEET BEYOND THE LIMITS OF THE PROPOSED IMPROVEMENTS OR THE DISTANCE RESULTING FROM A 1:1 (HORIZONTAL: VERTICAL) EXTENDED DOWN TO SUITABLE MATERIAL, WHERE FEASIBLE. IF OVEREXCAVATIONS ENCROACH UPON PROPERTY LINES OR ADJACENT STRUCTURES THE TEMPORARY EXCAVATION SHOULD GENERALLY BE SLOPED AT A 1:1 (HORIZONTAL TO VERTICAL) OR FLATTER, TO THE PRESCRIBED OVEREXCAVATION DEPTH. DEPENDING UPON PROXIMITY AND CONDITION OF EXPOSED SOILS, OVEREXCAVATION IN SLOT CUTS MAY BE RECOMMENDED BY THE GEOTECHNICAL ENGINEER. OVEREXCAVATIONS FOR PROPOSED SURFACE IMPROVEMENT AREAS, SUCH AS PAVEMENT OR FLATWORK SHOULD BE CONDUCTED TO A MINIMUM DEPTH OF TWO FEET BELOW EXISTING OR PROPOSED SUBGRADE OR TO THE DEPTH OF SUITABLE MATERIAL, WHICHEVER IS DEEPER.
- SUBGRADE INSPECTION: A GEOTECHNICAL REPRESENTATIVE FROM CTE SHOULD OBSERVE THE EXPOSED GROUND SURFACE PRIOR TO PLACEMENT OF COMPACTED FILL OR IMPROVEMENTS, TO VERIFY THE COMPETENCY OF EXPOSED SUBGRADE MATERIALS. AFTER APPROVAL BY THIS OFFICE, THE EXPOSED SUBGRADES TO RECEIVE FILL SHOULD BE SCARIFIED A MINIMUM OF EIGHT INCHES, MOISTURE CONDITIONED, AND PROPERLY COMPACTED PRIOR TO FILL PLACEMENT.
- FILL PLACEMENT: FOLLOWING THE RECOMMENDED OVEREXCAVATION AND REMOVAL OF LOOSE OR DISTURBED SOILS, AREAS TO RECEIVE FILLS SHOULD BE SCARIFIED APPROXIMATELY EIGHT INCHES, MOISTURE CONDITIONED, AND PROPERLY COMPACTED. FILL AND BACKFILL SHOULD BE COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 90 PERCENT AT A MINIMUM TWO PERCENT ABOVE OPTIMUM MOISTURE CONTENT (THREE PERCENT ABOVE OPTIMUM FOR CLAYEY SOILS), AS EVALUATED BY ASTM D 1557. PROPERLY MOISTURE CONDITIONED, LOW EXPANSION POTENTIAL SOILS DERIVED FROM THE ON-SITE MATERIALS ARE CONSIDERED SUITABLE FOR REUSE ON THE SITE AS COMPACTED FILL. IF USED, THESE MATERIALS SHOULD BE SCREENED OF ORGANICS AND MATERIALS GENERALLY GREATER THAN THREE INCHES IN MAXIMUM DIMENSION. IRREDUCIBLE MATERIALS GREATER THAN THREE INCHES IN MAXIMUM DIMENSION SHOULD NOT BE USED IN SHALLOW FILLS (WITHIN THREE FEET OF PROPOSED GRADES). IMPORTED FILL BENEATH STRUCTURES AND FLATWORK SHOULD HAVE AN EXPANSION INDEX OF 20 OR LESS (ASTM D 4829). IMPORTED FILL SOILS FOR USE IN STRUCTURAL OR SLOPE AREAS SHOULD BE EVALUATED BY THE SOILS ENGINEER A MINIMUM OF TWO WEEKS BEFORE BEING IMPORTED TO THE SITE.
- SLOPES/FOUNDATION GRADING:
- FOOTINGS FOR STRUCTURES SHOULD BE DESIGNED SUCH THAT THE HORIZONTAL DISTANCE FROM THE FACE OF ADJACENT SLOPES TO THE OUTER EDGE OF THE FOOTING IS AT LEAST 12 FEET. IN ADDITION, FOOTINGS SHOULD BEAR BENEATH A 1:1 PLANE EXTENDED UP FROM THE NEAREST BOTTOM EDGE OF ADJACENT TRENCHES AND/OR EXCAVATIONS. DEEPENING OF AFFECTED FOOTINGS MAY BE A SUITABLE MEANS OF ATTAINING THE PRESCRIBED SETBACKS.

SURVEYOR OF RECORD

THE SURVEY USED TO COMPLETE THIS PROJECT DESIGN WAS COMPLETED:

BY: _____ BWE INCORPORATED. DATE: 9/2/2020

NAME: GEOFFREY V. HOWLAND PLS

ADDRESS: 9449 BALBOA AVENUE, SUITE 270
SAN DIEGO, CA 92123

PHONE: (619) 299-5550

COUNTY APPROVED CHANGES		
DESCRIPTION:	APPROVED BY:	DATE:

PRIVATE CONTRACT

SHEET 2	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	21 SHEETS

PRIORITY DEVELOPMENT PROJECT GENERAL NOTES FOR:

TRI-CITY MEDICAL CENTER
PSYCHIATRIC HEALTH FACILITY
CALIFORNIA COORDINATE INDEX 380-1700

APPROVED FOR WILLIAM P. MORGAN
COUNTY ENGINEER

ENGINEER OF WORK
JEFF GAVAZZA, PE
R.C.E. C59894

GRADING PERMIT NO:
PDS2021-LDGRMJ-30378

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Rev.	Description	Date
	ISSUE FOR PLAN REVIEW	21 JAN 2022
	BACKCHECK	
	ISSUE FOR PLAN REVIEW	27 OCT 2021
	ISSUE FOR PLANNING	15 DEC 2020
	ISSUE FOR GRADING PERMIT	03 DEC 2020
	AGENCY APPROVAL	

ARCHITECT SEAL

CONSULTANT SEAL

REGISTERED PROFESSIONAL ENGINEER
JEFFREY B. GAVAZZA
No. 59894
Exp. 12/31/23
CIVIL
STATE OF CALIFORNIA

Drawing Title:

GENERAL NOTES

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GENERAL NOTES FOR ALL IMPROVEMENT PLANS

1. THE CONTRACTOR SHALL NOTIFY THE SAN DIEGO GAS AND ELECTRIC COMPANY AND THE PACIFIC TELEPHONE AND TELEGRAPHY COMPANY PRIOR TO STARING WORK NEAR COMPANY FACILITIES AND SHALL COORDINATE THEIR WORK WITH COMPANY REPRESENTATIVES. ALL TELEPHONE SERVICES WITHIN THIS SUBDIVISION ARE UNDERGROUND INSTALLATION. FOR LOCATION OF ELECTRIC CABLES, GAS PIPING AND TELEPHONE CABLES AND APPURTENANCES, CONTACT UNDERGROUND SERVICE ALERT: 1-800-227-2600. ALSO, REFER TO CITY STANDARDS.
2. AN APPROVED RIGHT-OF-WAY PERMIT SHALL BE OBTAINED FROM THE TRAFFIC ENGINEERING DIVISION FOR WORK WITHIN EXISTING CITY RIGHT-OF-WAYS AND EASEMENTS.
3. THE CONTRACTOR SHALL NOTIFY THE CITY OF OCEANSIDE ENGINEERING INSPECTION DEPARTMENT 48 HOURS PRIOR TO STARTING WORK SO THAT INSPECTION MAY BE PROVIDED. (TELEPHONE NUMBER: 760-435-5081).
4. ALL WORK SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITIONS OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, WITH SUPPLEMENTS (APWA SPECIFICATIONS); THE SAN DIEGO COUNTY REGIONAL STANDARD DRAWINGS (SDRSD); CITY OF OCEANSIDE WATER, SEWER, AND RECYCLED DESIGN & CONSTRUCTION MANUAL; AND CITY OF OCEANSIDE ENGINEERS DESIGN AND PROCESSING MANUAL (OCEANSIDE ENGINEERS MANUAL).
5. WHERE NEW WATER AND WASTEWATER SERVICES OR IMPROVEMENTS ARE TO BE CONNECTED TO EXISTING PUBLIC WATER AND WASTEWATER MAINS IN POOR CONDITION OR ARE FOUND TO PROVIDE ADVERSE OPERATIONAL AND MAINTENANCE CONDITIONS, THE IMPROVEMENT PLANS SHALL BE DETAILED SUFFICIENTLY TO REPAIR SUCH CONDITIONS.
6. PAVEMENT SECTIONS SHOWN ARE TO BE VERIFIED BY 'R' VALUE TESTS (TEST METHOD NO. CALIFORNIA 301) AND PAVEMENT DESIGN REPORT, TO BE SUBMITTED BY SOILS ENGINEER AFTER UNDERGROUND UTILITIES CONSTRUCTION IS COMPLETE, FOR CITY ENGINEER'S APPROVAL.
7. ALL METALS PLACED IN THE GROUND SHALL BE ENCASED 6 INCHES OF SE 30 SAND.
8. CONSTRUCTION EXPANSION JOINTS IN CURB AND GUTTER AT RETURNS AND AT DRIVEWAY INTERSECTIONS ARE REQUIRED PER SDRSD G-9 AND G-10.
9. ALL UNDERGROUND UTILITIES SERVICES AND LATERALS SHALL BE INSTALLED BEFORE CONSTRUCTION OF CURBS, CROSS GUTTERS, OR SURFACING OF THE STREETS AND SHALL BE MARKED FOR EASY LOCATION. THE ENGINEER OF WORK SHALL CERTIFY ALL IMPROVEMENTS TO WITHIN 0.1 FEET OF THE DESIGN.
10. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN AN EXCAVATION PERMIT FROM THE DIVISION OF INDUSTRIAL SAFETY AND ADHERE TO ALL PROVISIONS OF THE STATE CONSTRUCTION SAFETY ORDERS.
11. SOILS REPORTS ON ALL TRENCHES SHALL BE SUBMITTED TO THE ENGINEER OF WORK AND THE CITY ENGINEER BY THE SOILS ENGINEER OF RECORD, WHICH CERTIFIES THAT TRENCH BACKFILL WAS COMPACTED AS DIRECTED BY THE SOILS ENGINEER IN ACCORDANCE WITH EARTHWORK SPECIFICATIONS AND CITY OF OCEANSIDE SPECIFICATIONS AND GRADING ORDINANCE.
12. BLUE FIRE HYDRANT MARKERS SHALL BE PLACED ON THE PAVEMENT PER CITY OF OCEANSIDE STANDARD DRAWING M-13.
13. TRAFFIC CONTROL AND TRAFFIC CONTROL WARNING SIGNS, LIGHTS, AND DEVICES SHALL CONFORM TO THE CURRENT EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CALIFORNIA MUTCD, DEPARTMENT OF TRANSPORTATION, DIVISION OF TRAFFIC OPERATIONS.
14. CENTERLINE MONUMENTS SHALL BE INSTALLED AT THE EC AND BC OF ALL CURVES, AT THE CENTERLINE INTERSECTION OF ALL STREETS WHERE MANHOLES ALLOW, AT THE RADIUS POINT OF CONCENTRIC CUL-DE-SACS, AND AT THE ANGLE POINT OF OFFSET CUL-DE-SACS, PER SDRSD M-10 AND M-11.
15. ALL EXISTING IMPROVEMENTS INCLUDING CURBS AND GUTTERS, SIDEWALKS, ASPHALT CONCRETE OR PAVING, WHICH ARE BEING JOINED OR MATCHED IN CONNECTION WITH THIS PROJECT, SHALL BE JOINED OR MATCHED IN A MANNER SATISFACTORY TO THE CITY ENGINEER, INCLUDING NECESSARY SAW-CUTTING, REMOVAL, REPLACEMENT, AND CAPPING.
16. ALL OPERATIONS CONDUCTED ON THE PREMISES, INCLUDING THE WARMING-UP, REPAIR, ARRIVAL, DEPARTURE, OR RUNNING OF TRUCKS, EARTHMOVING EQUIPMENT, CONSTRUCTION EQUIPMENT, AND ANY OTHER ASSOCIATED EQUIPMENT SHALL BE LIMITED TO THE PERIOD BETWEEN 7:00 A.M. AND 6:00 P.M. MONDAY THROUGH FRIDAY; AND, NO EARTHMOVING OR GRADING OPERATIONS SHALL BE CONDUCTED ON THE PREMISES ON SATURDAYS OR SUNDAYS OR LEGAL HOLIDAYS, UNLESS WAIVED BY THE CITY ENGINEER.
17. STRIPING SHALL BE DONE BY THE CONTRACTOR AT THE DEVELOPER'S EXPENSE, UNLESS OTHERWISE DIRECTED.
18. TRAFFIC STRIPES AND PAVEMENT MARKINGS SHALL NOT BE APPLIED OVER EXISTING STRIPES THAT ARE TO BE REMOVED. EXISTING STRIPES SHALL BE FIRST REMOVED BY SANDBLASTING BEFORE ANY NEW APPLICATION.
19. REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED BY CONTRACTOR ON PERMANENT STRIPING. ALL STREET SIGNS SHOWN ON THESE PLANS SHALL BE THE RESPONSIBILITY OF THE DEVELOPER. SIGN SPECIFICATIONS AND INSTALLATION SHALL BE IN ACCORDANCE WITH CITY OF OCEANSIDE STANDARDS AND THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION SPECIFICATION FOR REGULATORY, WARNING AND GUIDE SIGNS.
20. PATCHING OF SIDEWALK IS NOT PERMITTED.
21. SHALL BE REMOVED AND REPLACED.
22. A MINIMUM REPLACEMENT SECTION TO BE AT LEAST EQUAL TO SCORE MARK (TYPICALLY 5 FEET X 5 FEET). FOR SIDEWALKS EXCEEDING 5 FEET WIDTH, REPLACEMENT IS TO BE FULL WIDTH SQUARED TO THE NEXT SCORE MARK.
23. ALL VALVE CANS AND RISERS ON THE CITY'S OPERATIONAL SYSTEM WILL BE RAISED TO GRADE, INCLUDING COMPACTION AROUND THE RISER AND PAVING AROUND VALVE CAN, WITHIN 48 HOURS AFTER PAVEMENT HAS BEEN PLACED. THIS INCLUDES VALVE CANS AND RISERS ON THE EXISTING SYSTEM AND ON ALL NEW SYSTEMS THAT ARE TIED INTO THE CITY'S EXISTING SYSTEM.
24. ALL SEWER MANHOLES ON THE CITY'S OPERATIONAL SYSTEM WILL BE RAISED TO GRADE WITHIN 48 HOURS AFTER PAVEMENT HAS BEEN PLACED. THIS INCLUDES MANHOLES ON THE EXISTING SYSTEM AND ON ALL NEW SYSTEMS THAT ARE TIED INTO THE CITY'S EXISTING SYSTEM.

REQUIRED NOTES FOR WATER SYSTEM DESIGN PLANS

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITIONS OF THE CITY OF OCEANSIDE WATER UTILITIES DEPARTMENT WATER, SEWER, AND RECLAIMED WATER DESIGN & CONSTRUCTION MANUAL (OCEANSIDE WATER UTILITIES MANUAL); CITY OF OCEANSIDE ENGINEERS DESIGN AND PROCESSING MANUAL (OCEANSIDE ENGINEERS MANUAL); SAN DIEGO AREA REGIONAL STANDARD DRAWINGS (SDRSD); AND, STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC OR GREENBOOK) AND SUPPLEMENTAL AMENDMENTS.
2. A 'W' SHALL BE INSCRIBED ON CURB DIRECTLY ABOVE ALL WATER SERVICES. SERVICES SHALL BE SHOWN ON AS-BUILT PLANS AND SHALL BE LOCATED BY A WATERLINE STATIONING.
3. PRESSURE TEST, DISINFECT, SAMPLE TEST(S), AND FLUSH THE WATER SYSTEM IN ACCORDANCE WITH THE GUIDELINE TITLED, 'CONSTRUCTION GUIDELINES AND REQUIREMENTS', INCLUDED AS SECTION F OF THE CITY OF OCEANSIDE'S WATER, SEWER, AND RECLAIMED WATER DESIGN & CONSTRUCTION MANUAL'S.
4. NO DISRUPTION TO THE EXISTING WATER DISTRIBUTION MAINS WILL BE ALLOWED ON MONDAYS OR FRIDAYS. ALL SHUTDOWNS FOR SYSTEM TIE-INS WILL BE SCHEDULED BETWEEN TUESDAY, WEDNESDAY AND THURSDAY, AND WILL BE CONFINED TO NORMAL WORKING HOURS. REFER TO THE GUIDELINE TITLED, 'ADMINISTRATIVE PROCEDURES FOR WATER LINE SHUTDOWNS' IN THE CONSTRUCTION GUIDELINES AND REQUIREMENTS APPENDIX OF THE CITY OF OCEANSIDE'S WATER, SEWER, AND RECLAIMED WATER DESIGN & CONSTRUCTION MANUAL.
5. NO CONNECTIONS FOR THE PURPOSE OF OBTAINING WATER SUPPLY DURING CONSTRUCTION SHALL BE MADE TO ANY FIRE HYDRANT OR BLOW-OFF STRUCTURE WITHOUT FIRST OBTAINING A CONSTRUCTION WATER PERMIT FROM THE CITY OF OCEANSIDE WATER UTILITIES DEPARTMENT. A REDUCED PRESSURE PRINCIPLE ASSEMBLY (RP ASSEMBLY) SHALL PROTECT THE METER.
6. ALL WATER USED ON A CONSTRUCTION PROJECT SHALL BE METERED. THE COST OF THE WATER WILL BE CHARGED TO THE CONTRACTOR/DEVELOPER. THIS INCLUDES WATER FOR LOADING OF NEW WATERLINES, FLUSHING OF LINES, PRESSURE TESTING, ETC. CITATIONS WILL BE ISSUED TO PARTIES TAKING WATER FROM NON-METERED FACILITIES.
7. LOCATION AND ELEVATION OF EXISTING WATER FACILITIES SHALL BE CONFIRMED BY FIELD MEASUREMENTS AND EXCAVATION EXPLORATION (POTHOLING) BY THE CONTRACTOR, AFTER USA MARK-OUT HAS BEEN COMPLETED AND THE WATER UTILITIES DEPARTMENT HAS BEEN GIVEN A TWO (2) WORKING-DAY NOTICE.
9. THE EXISTENCE AND LOCATION OF EXISTING WATER FACILITIES AS SHOWN ON THE PLANS WERE OBTAINED FROM AVAILABLE CITY RECORDS. TO THE BEST OF OUR KNOWLEDGE, THE EXISTING WATER FACILITIES ARE AS SHOWN ON THE PLANS. THE CITY OF OCEANSIDE SHALL NOT BE HELD RESPONSIBLE FOR ANY ERROR IN THE LOCATION AND ELEVATION OF THE EXISTING WATER FACILITIES.
10. NO REVISION SHALL BE MADE TO THESE PLANS WITHOUT THE APPROVAL OF THE WATER UTILITIES DIRECTOR.
11. Nuts and bolts on all flange fittings shall be zinc-plated and coated Per Section 2.12.C of the City of Oceanside's Water, Sewer, and Reclaimed Water Design & Construction Manual, except for buried service, which shall be Type 316 stainless steel. All plated nut and bolt threads shall be coated with non-oxide grease prior to installation. Apply anti-seize to all Stainless Steel nut and bolt threads. Buried service valves, fittings, and appurtenances will be coated and wrapped per Section 2.12 of the Oceanside Water, Sewer, Reclaimed Water, Design and Construction Manual.
12. WATER SERVICES ARE NOT PERMITTED IN DRIVEWAYS AND METER BOXES ARE NOT PERMITTED IN CONCRETE.
13. THE CITY INSPECTOR SHALL BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO ANY INSPECTION. TO ARRANGE FOR INSPECTION, CALL THE WATER UTILITIES DEPARTMENT AT 760-435-5800.
14. PIPE BEDDING AND TRENCH BACKFILL SHALL CONFORM TO SAN DIEGO REGIONAL STANDARD DRAWING W-21, EXCEPT THAT COMPACTION SHALL BE 95%. THE PIPE SHALL BE LAID ON 6-INCH MINIMUM SAND BED WITH SAND EQUIVALENT OF SE-30 OR MORE. THE BACKFILL MATERIAL FOR THE PIPE ZONE SHALL BE SAND OR NATIVE MATERIAL WITH A S.E. OF 30 OR MORE, FREE FROM STONES, CLODS AND OTHER DELETERIOUS MATERIALS.
15. ALL FITTINGS AND SERVICES SHALL BE ENCASED WITH A MINIMUM OF SIX (6) INCHES OF NEUTRAL SAND, AND PER SECTIONS 2.12.C AND G OF THE CITY OF OCEANSIDE'S WATER, SEWER, AND RECLAIMED WATER DESIGN & CONSTRUCTION MANUAL.
16. PIPE DEFLECTIONS FOR SHORT RADIUS CURVES AND ANGLE POINTS SHALL NORMALLY BE ACCOMPLISHED BY MEANS OF STANDARD FITTINGS, THE LOCATIONS OF WHICH SHALL BE DETAILED ON THE PLANS.
17. POLYETHYLENE ENCASEMENT: ALL UNDERGROUND INSTALLED VALVES, DUCTILE IRON PIPE, AND FITTINGS SHALL BE ENCASED IN 2 LAYERS OF 8-MIL POLYETHYLENE ENCASEMENT AND INSTALLATION SHALL BE IN ACCORDANCE WITH ANSI/AWWA C105/A21.5.
18. PIPE INSTALLATION: THE INSIDE AND OUTSIDE OF THE PIPE SHALL BE CLEAN AND FREE FROM FOREIGN MATERIAL OF ANY KIND BEFORE BEING INSTALLED.
19. 3-INCH MINIMUM WIDTH COLOR CODED DETECTOR TAPE MARKED 'WATER' IN 1-½ INCH BLACK LETTERS SHALL BE PLACED ON THE COMPACTED AND GRADED SAND BEDDING ONE FOOT ABOVE AND CENTERED OVER THE WATER MAIN PRIOR TO BACKFILLING THE TRENCH.
20. WATER QUALITY TESTS SHALL INCLUDE BACTERIOLOGICAL (BT) AND GENERAL PHYSICAL (GP) TESTING. ALL TESTING WILL COMPLY WITH THE PROVISIONS OF SECTION F) WATER SYSTEM TESTING REQUIREMENTS IN THE CONSTRUCTION GUIDELINES AND REQUIREMENTS APPENDIX OF THE CITY OF OCEANSIDE'S WATER, SEWER, AND RECLAIMED WATER DESIGN & CONSTRUCTION MANUAL. ALL TESTING WILL BE SUCCESSFULLY COMPLETED BEFORE CONNECTION (TIE-IN) SUBMITTAL AND APPROVAL.
21. ALL WATER DISCHARGE FROM FLUSHING, TESTING, AND DEWATERING SHALL COMPLY WITH ALL REQUIREMENTS OF THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD-SAN DIEGO REGION (SDRWQCB) REGULATIONS.
22. DETAILED PLANS FOR FIRE SERVICE LINES MUST BE SUBMITTED TO THE FIRE DEPARTMENT FOR APPROVAL, PRIOR TO COMMENCEMENT OF CONSTRUCTION.

REQUIRED NOTES FOR SEWER SYSTEM DESIGN PLANS

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITIONS OF THE CITY OF OCEANSIDE WATER UTILITIES DEPARTMENT WATER, SEWER, AND RECLAIMED WATER DESIGN & CONSTRUCTION MANUAL (OCEANSIDE WATER UTILITIES MANUAL); CITY OF OCEANSIDE DESIGN AND PROCESSING MANUAL (OCEANSIDE ENGINEERS MANUAL); SAN DIEGO AREA REGIONAL STANDARD DRAWINGS (SDRSD); AND, STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC OR GREENBOOK) AND SUPPLEMENTAL AMENDMENTS.
2. EACH LOT SHALL BE SERVED BY A MINIMUM OF 4 INCH SEWER LATERAL SET AT A MINIMUM SLOPE OF 2% WITH A MINIMUM DROP OF 0.3 FEET AND A MINIMUM OF FIVE FEET OF COVER AT PROPERTY LINE PER OCEANSIDE STANDARD DRAWING S-3.
3. THE CONTRACTOR MUST SECURE APPROVAL FROM THE CITY INSPECTOR PRIOR TO BACKFILL OVER ANY SEWER LINE.
4. NO REVISIONS SHALL BE MADE TO THESE PLANS WITHOUT THE APPROVAL OF THE CITY ENGINEER AND THE WATER UTILITIES DIRECTOR.
5. CONTRACTOR SHALL MAKE ALL 4 INCH SEWER LATERAL CONNECTIONS TO EXISTING SEWER MAINS, UNLESS OTHERWISE APPROVED BY THE WATER UTILITIES DIRECTOR AND INSPECTED BY THE WATER UTILITIES DEPARTMENT.
6. THE CONTRACTOR MAY MAKE 4-INCH SEWER LATERAL CONNECTIONS TO EXISTING SEWER MAINS THAT ARE LOCATED IN EASEMENTS WHERE NO PAVING IS INVOLVED. THIS MAY BE DONE WITH THE APPROVAL OF THE WATER UTILITIES DIRECTOR AND WILL BE INSPECTED BY THE WATER UTILITIES DEPARTMENT.
7. NO DISRUPTION TO EXISTING SEWER SERVICES WILL BE ALLOWED DURING CONNECTIONS TO EXISTING MAINS WITHOUT THE SPECIFIC APPROVAL OF THE CITY OF OCEANSIDE WATER UTILITIES DEPARTMENT.
8. THE CONTRACTOR SHALL NOTIFY THE UNDERGROUND SERVICE ALERT 48 HOURS PRIOR TO STARTING EXCAVATION SO THAT EXISTING SEWER FACILITIES MAY BE MARKED IN THE FIELD. (UNDERGROUND SERVICE ALERT: 1-800-227-2600).
9. POTHOLING LOCATION AND ELEVATION OF EXISTING SEWER FACILITIES SHALL BE CONFIRMED BY FIELD MEASUREMENTS AND EXCAVATION EXPLORATION BY THE CONTRACTOR, IN THE PRESENCE OF A CITY INSPECTOR AFTER A TWO (2) WORKING DAY NOTICE PRIOR TO THE BEGINNING OF NEW WORK. THIS WILL ALLOW TIME TO PERMIT REVISION OF PLANS, AS NECESSARY, BECAUSE OF CONFLICTS WITH OTHER FACILITIES.
10. THE EXISTENCE AND LOCATION OF SEWER FACILITIES SHOWN ON THESE PLANS WERE OBTAINED FROM AVAILABLE CITY RECORDS. TO THE BEST OF OUR KNOWLEDGE, THE EXISTING SEWER FACILITIES ARE AS SHOWN ON THE PLANS. THE CITY OF OCEANSIDE SHALL NOT BE HELD RESPONSIBLE FOR ANY ERROR IN THE LOCATION AND ELEVATION OF THE EXISTING SEWER FACILITIES.
11. THE CITY INSPECTOR SHALL BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING WORK ON THE SEWERS. TO ARRANGE FOR INSPECTION CALL THE WATER UTILITIES DEPARTMENT AT (760) 435-5800.
12. ALL SEWER HOUSE CONNECTIONS SHALL BE PLACED PRIOR TO SURFACING OF STREETS.
13. ALL MANHOLES ARE TO BE COATED INSIDE WITH SANCON 100 OR ZEBRON.
14. ALL MANHOLE COVERS FOR PRIVATE SEWER SYSTEMS SHALL BE MANUFACTURED WITH "PRIVATE SEWER" STAMPED ON TOP OF THE MANHOLE COVER.
15. ALL MANHOLE COVERS FOR PUBLIC SEWER SYSTEMS SHALL BE MANUFACTURED WITH "CITY OF OCEANSIDE" STAMPED ON TOP OF THE MANHOLE COVERS.
16. ALL SEWER MAINS SHALL BE INSPECTED BY CLOSED CIRCUIT VHS TELEVISION AT THE CONTRACTOR'S EXPENSE PRIOR TO FINAL ACCEPTANCE. THE VIDEOTAPING WILL TAKE PLACE AFTER COMPLETION OF TRENCH BACKFILL AND FINISH GRADING BUT PRIOR TO THE PLACEMENT OF PAVEMENT OR PERMANENT TRENCH RESURFACING TO DETERMINE THE EXISTENCE AND EXTENT OF ANY OBSTRUCTIONS, STRUCTURAL DEFICIENCIES, SAGS, OR FOREIGN MATERIAL. BOTH A VERBAL DESCRIPTION AND A WRITTEN MANUSCRIPT OF THE VIDEOTAPE WILL BE SUBMITTED TO THE WATER UTILITIES DIRECTOR FOR REVIEW AND APPROVAL PRIOR TO FINAL ACCEPTANCE. VIDEOTAPING WILL MEET THE REQUIREMENTS OF TELEVISING SEWER MAINS IN THE APPENDIX OF THE CITY OF OCEANSIDE'S WATER, SEWER, AND RECLAIMED DESIGN & CONSTRUCTION MANUAL TITLED, "CONSTRUCTION GUIDELINES AND REQUIREMENTS."
17. ALL SEWER MAINS WILL PASS A 95% MANDREL TEST AND AIR PRESSURE TEST PRIOR TO STREET PAVING, BUT AFTER ALL OTHER UTILITIES HAVE BEEN COMPLETED AND TESTING CERTIFIED COMPACTION APPROVED.
18. PLASTIC SEWER PIPE SHALL BE BEDDED IN STRICT ACCORDANCE WITH CITY OF OCEANSIDE STANDARD DRAWING S-2. BEDDING SHALL REMAIN UNDISTURBED BY SUBSEQUENT CONSTRUCTION.
19. EACH PARCEL OR LOT SHALL HAVE A SEPARATE CONNECTION TO THE PUBLIC SEWER MAIN.
20. SADDLE CONNECTIONS THAT CUT THROUGH SEWER MAINS SHALL NOT BE ACCEPTED WITHOUT APPROVAL OF THE WATER UTILITIES INSPECTOR.
21. PVC PIPE SHALL BE STORED ON A FLAT SURFACE SO THE BARREL IS EVENLY SUPPORTED. DO NOT STACK PIPE HIGHER THAN 4 FEET. GASKETS SHALL BE STORED IN A COOL, DARK PLACE OUT OF CONTACT WITH OIL OR GREASE.
22. NEW SEWER MAINS WILL NOT BE CONNECTED TO THE CITY'S SEWER SYSTEM UNTIL THE REQUIREMENTS FOR OCCUPANCY ARE MET. FLOWS WILL BE RETAINED WITHIN THE NEWLY CONSTRUCTED SYSTEM BY MEANS OF PLUGGING THE NEW SYSTEM WITH A MIXTURE OF PLASTER OF PARIS AND PORTLAND CEMENT (KNOWN AS DYNAMITING) IN A PLACE THAT WILL NOT IMPAIR THE FUNCTION OF THE CITY'S SEWER SYSTEM.
23. ALL SEWER LINES SHALL MEET ALL TESTING, CLEANING, AND VIDEOTAPING REQUIREMENTS, PRIOR TO CONNECTION TO THE CITY'S SEWER SYSTEM. NO TIE-IN CONNECTIONS WILL BE DONE UNTIL THE CITY HAS ACCEPTED THE NEW LINE.
24. PRIOR TO RELEASING SEWER INTO THE CITY'S SEWER SYSTEM, THE CONTRACTOR WILL: A) PERFORM AN AIR PRESSURE TEST PER SECTION 306-1-4.4 OF THE STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION; B) WAYNEBALL ALL LINES; AND, C) HAVE AN APPROVED VIDEOTAPE OF THE LINE FROM THE CITY OF OCEANSIDE WATER UTILITIES DEPARTMENT.
25. AN INFILTRATION TEST SHALL BE PERFORMED ON ALL SEWER LINES LAID IN GROUNDWATER, PER SECTION 306.1-4.3 OF THE STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION.
26. EXISTING SEWER MAINS WILL NOT BE USED FOR DISCHARGE OF STORM WATERS, DRAINAGE, OR OTHER SIMILAR USES PER CITY OF OCEANSIDE CODE, SECTION 2945.1(0).
27. ALL SEWER FORCE MAINS SHALL BE PROVIDED WITH RELEASE VALVES AT THE REQUIRED LOCATIONS. THE AIR RELEASE VALVE ASSEMBLY SHALL BE EASILY ACCESSIBLE TO THE WATER UTILITIES DEPARTMENT FOR MAINTENANCE PURPOSES.
28. DURING ANY ACTIVITY OR WORK AROUND, OR IN, AN EXISTING SEWER LINE, THE CONTRACTOR AT THEIR EXPENSE, WILL PROTECT THE SYSTEM BY INSTALLING 'TRAPS' IN THE OUTLET SIDE OF THE CLOSEST MANHOLE. THE 'TRAPS' AND THEIR LOCATION SHALL BE SUBMITTED TO THE WATER UTILITIES DIRECTOR FOR APPROVAL. THE 'TRAPS' WILL REMAIN IN PLACE UNTIL ALL REQUIREMENTS (TESTING, CLEANING, VIDEOTAPING, ETC.), HAVE BEEN COMPLETED AND APPROVED.
29. UPON ACTIVATION OF A SEWER LINE, THE CONTRACTOR—AT THEIR EXPENSE—WILL PROTECT THE LINE FROM FOREIGN MATERIAL BY INSTALLING PLYWOOD OVER THE MANHOLE BASE UNTIL ALL GRADING, PAVING, AND MANHOLE RAISING IS COMPLETE AND ACCEPTED BY THE CITY.
30. POLYETHYLENE ENCASEMENT: ALL UNDERGROUND INSTALLED VALVES, DUCTILE IRON PIPE, AND FITTINGS SHALL BE ENCASED IN 2 LAYERS OF 8-MIL POLYETHYLENE AT THE TIME OF INSTALLATION. POLYETHYLENE ENCASEMENT AND INSTALLATION SHALL BE IN ACCORDANCE WITH ANSI/AWWA C105/A21.5.
31. PIPE INSTALLATION: THE INSIDE AND OUTSIDE OF THE PIPE SHALL BE CLEAN AND FREE FROM FOREIGN MATERIAL OF ANY KIND BEFORE BEING INSTALLED.
32. 3 INCH MINIMUM WIDTH COLOR CODED DETECTOR TAPE MARKED 'SEWER' IN 1-½ INCH BLACK LETTERS SHALL BE PLACED ON THE COMPACTED AND GRADED BEDDING MATERIAL ONE FOOT ABOVE AND CENTERED OVER THE SEWER MAIN PRIOR TO BACKFILLING THE TRENCH.
33. ALL WATER DISCHARGE FROM CLEANING, VIDEOTAPE, AND OTHER ACTIVITIES SHALL COMPLY WITH ALL REQUIREMENTS OF THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD—SAN DIEGO REGION (SDRWQCB) REGULATIONS.

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COUNTY APPROVED CHANGES

DESCRIPTION:	APPROVED BY:	DATE:

PRIVATE CONTRACT

SHEET	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	21 SHEETS
3		

PRIORITY DEVELOPMENT PROJECT GENERAL NOTES FOR:

TRI-CITY MEDICAL CENTER
PSYCHIATRIC HEALTH FACILITY
CALIFORNIA COORDINATE INDEX 380-1700

APPROVED FOR WILLIAM P. MORGAN
COUNTY ENGINEER

ENGINEER OF WORK
JEFF GAVAZZA, PE
R.C.E. C39894

GRADING PERMIT NO:
PDS2021-LDGRMJ-30378

PERMANENT BMP_TEMPLATE (REV. 7/6/2017)

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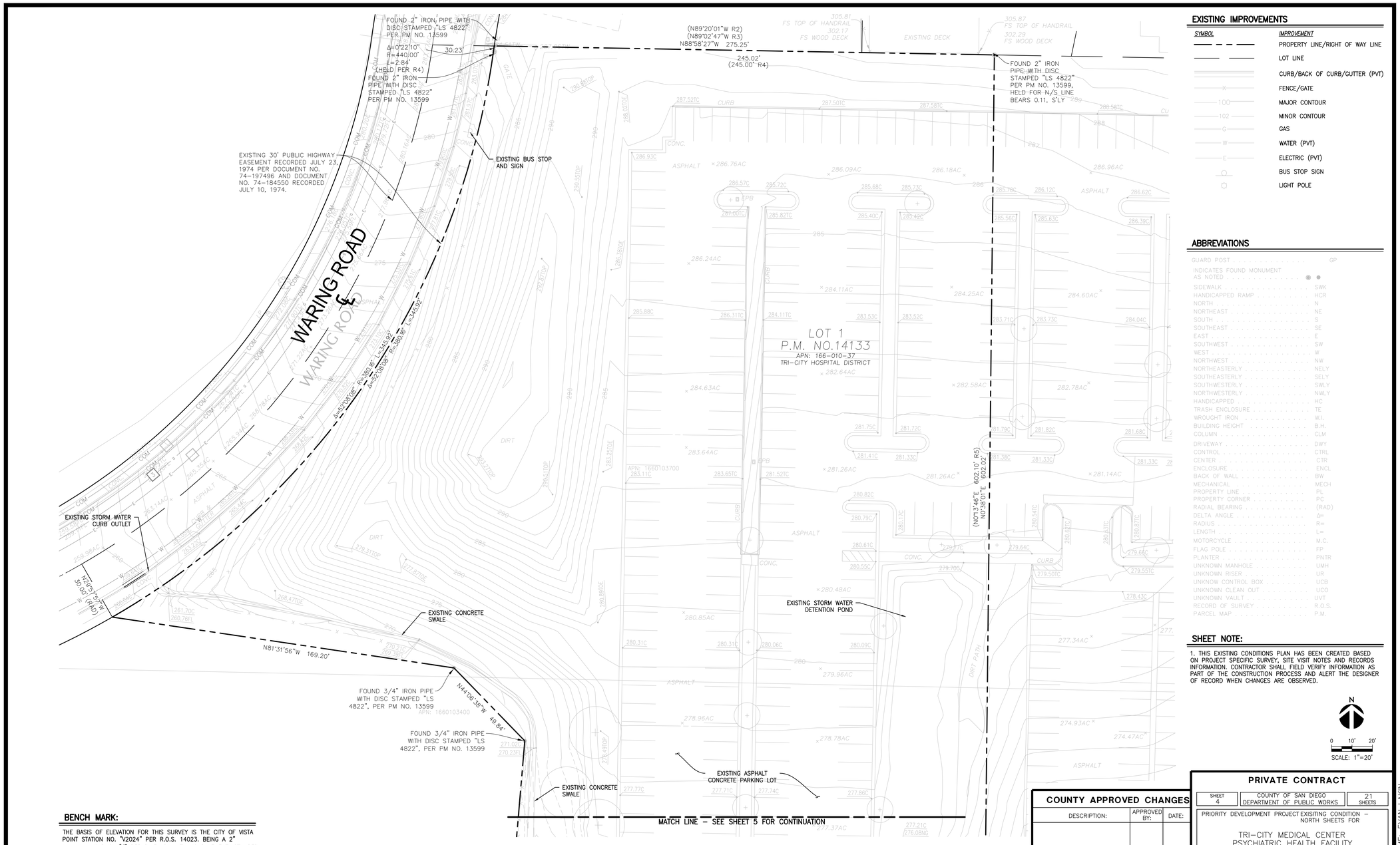
GENERAL NOTES

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EXISTING IMPROVEMENTS

SYMBOL	IMPROVEMENT
	PROPERTY LINE/RIGHT OF WAY LINE
	LOT LINE
	CURB/BACK OF CURB/GUTTER (PVT)
	FENCE/GATE
100	MAJOR CONTOUR
102	MINOR CONTOUR
G	GAS
W	WATER (PVT)
E	ELECTRIC (PVT)
	BUS STOP SIGN
	LIGHT POLE

ABBREVIATIONS

GUARD POST	GP
INDICATES FOUND MONUMENT AS NOTED	◉ ●
SIDEWALK	SWK
HANDICAPPED RAMP	HCR
NORTH	N
NORTHEAST	NE
SOUTH	S
SOUTHEAST	SE
EAST	E
SOUTHWEST	SW
WEST	W
NORTHWEST	NW
NORTHEASTERLY	NELY
SOUTHEASTERLY	SELY
SOUTHWESTERLY	SWLY
NORTHWESTERLY	NWLY
HANDICAPPED	HC
TRASH ENCLOSURE	TE
WROUGHT IRON	W.I.
BUILDING HEIGHT	B.H.
COLUMN	CLM
DRIVEWAY	DWY
CONTROL	CTRL
CENTER	CTR
ENCLOSURE	ENCL
BACK OF WALL	BW
MECHANICAL	MECH
PROPERTY LINE	PL
PROPERTY CORNER	PC
RADIAL BEARING	(RAD)
DELTA ANGLE	Δ=
RADIUS	R=
LENGTH	L=
MOTORCYCLE	M.C.
FLAG POLE	FP
PLANTER	PNTR
UNKNOWN MANHOLE	UMH
UNKNOWN RISER	UR
UNKNOW CONTROL BOX	UCB
UNKNOWN CLEAN OUT	UCO
UNKNOWN VAULT	UVT
RECORD OF SURVEY	R.O.S.
PARCEL MAP	P.M.

SHEET NOTE:

1. THIS EXISTING CONDITIONS PLAN HAS BEEN CREATED BASED ON PROJECT SPECIFIC SURVEY, SITE VISIT NOTES AND RECORDS INFORMATION. CONTRACTOR SHALL FIELD VERIFY INFORMATION AS PART OF THE CONSTRUCTION PROCESS AND ALERT THE DESIGNER OF RECORD WHEN CHANGES ARE OBSERVED.

N

0 10' 20'

SCALE: 1"=20'

BENCH MARK:

THE BASIS OF ELEVATION FOR THIS SURVEY IS THE CITY OF VISTA POINT STATION NO. "V2024" PER R.O.S. 14023. BEING A 2" ALUMINUM CAP ON ⅝" REBAR, FLUSH WITH AC PAVEMENT, STAMPED "HUNSAKER & ASSOC. G.P.S CONTROL POINT 2024", LOCATED AT THE INTERSECTION OF THUNDER DRIVE AND GENIE DRIVE.

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COUNTY APPROVED CHANGES

DESCRIPTION:	APPROVED BY:	DATE:

PRIVATE CONTRACT

SHEET		
4	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	21 SHEETS

PRIORITY DEVELOPMENT PROJECT EXISITING CONDITION – NORTH SHEETS FOR

TRI-CITY MEDICAL CENTER
PSYCHIATRIC HEALTH FACILITY

CALIFORNIA COORDINATE INDEX 380-1700

APPROVED FOR WILLIAM P. MORGAN COUNTY ENGINEER

ENGINEER OF WORK
JEFF GAVAZZA, PE
R.C.E. C39894

GRADING PERMIT NO:
PDS2021-LDGRMJ-30378

ENGINEER'S NAME: EVAN LAKIN
PHONE NO. (213)266-5266 /// EMAIL: EVAN.LAKIN@KPFF.COM

PERMANENT BMP_TEMPLATE (REV. 7/6/2017)

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	ISSUE FOR PLAN REVIEW	21 JAN 2022
	BACKCHECK	
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	AGENCY APPROVAL	

ARCHITECT SEAL

CONSULTANT SEAL

REGISTERED PROFESSIONAL ENGINEER
JEFFREY B. GAVAZZA
No. 59894
Exp. 6/31/23
CIVIL
STATE OF CALIFORNIA

Drawing Title:

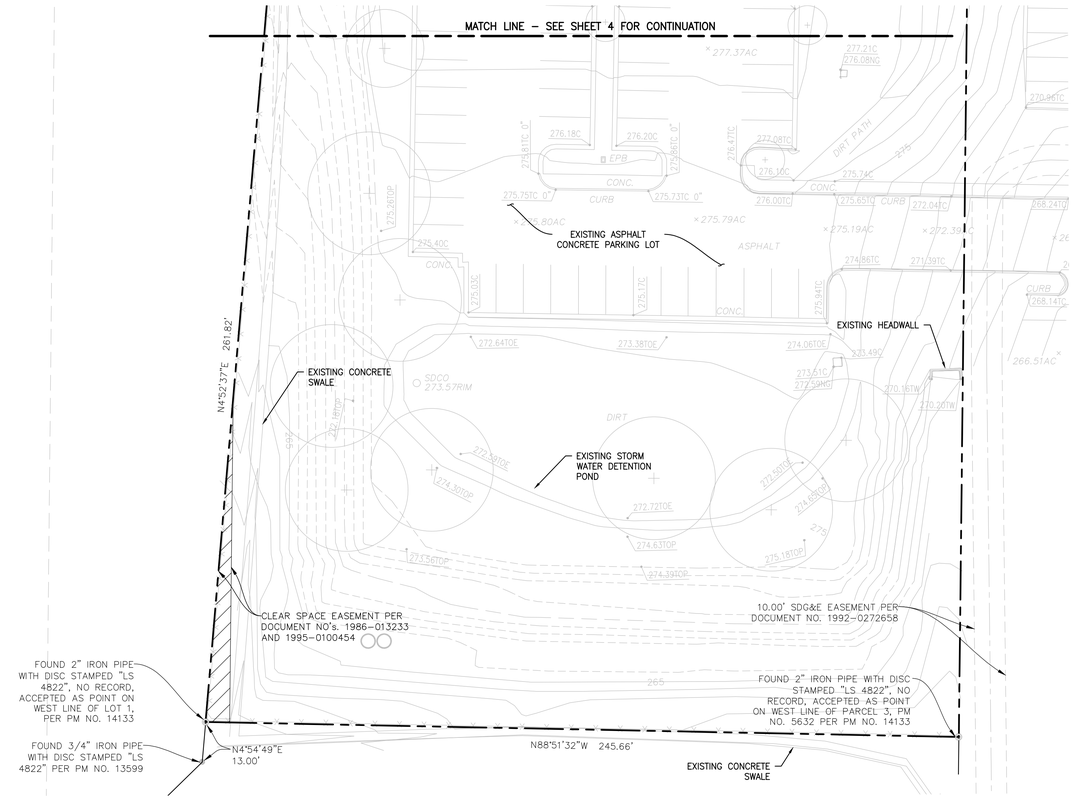
EXISITING CONDITION - NORTH

Issue Date: 12/15/2021

Project No.: 006240.00 Checked by: AL/ EL

C1004

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EXISTING IMPROVEMENTS

SYMBOL	IMPROVEMENT
	PROPERTY LINE/RIGHT OF WAY LINE
	LOT LINE
	CURB/BACK OF CURB/GUTTER (PVT)
X	FENCE/GATE
XXX	MAJOR/MINOR CONTOUR
G	GAS
W	WATER (PVT)
E	ELECTRIC (PVT)
	BUS STOP SIGN
	LIGHT POLE

SHEET NOTE:

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N

0 10' 20'

SCALE: 1"=20'

COUNTY APPROVED CHANGES

DESCRIPTION:	APPROVED BY:	DATE:

PRIVATE CONTRACT

SHEET	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	SHEETS
5		21

PRIORITY DEVELOPMENT PROJECT EXISITING CONDITION – NORTH SHEET FOR:

TRI–CITY MEDICAL CENTER
PSYCHIATRIC HEALTH FACILITY

CALIFORNIA COORDINATE INDEX 380–1700

APPROVED FOR WILLIAM P. MORGAN COUNTY ENGINEER

ENGINEER OF WORK
JEFF DAVAZZA, PE
R.C.E. C59894

GRADING PERMIT NO:
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Exp. 12/31/23
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STATE OF CALIFORNIA

Drawing Title:

EXISITING CONDITION - SOUTH PLAN

Issue Date: 12/15/2021

Project No.: 006240.00 Checked by: AL/ EL

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LEGEND

- LIMIT LINE OF EROSION CONTROL
- PROPERTY LINE
- LOT LINE
- FIBER ROLL
- DEMOLITION LINE
- SAWCUT AND JOIN
- CONSTRUCTION FENCE
- DIRECTION OF FLOW
- STORM WATER DIVERSION SWALE W/CHECKDAMS

DEMOLITION NOTES:

PROTECT-IN-PLACE		DEMOLISH & REMOVE	
1	ASPHALT PAVEMENT	1	ASPHALT PAVEMENT
2	CONCRETE CURB	2	CONCRETE CURB
3	LANDSCAPE	3	LANDSCAPE
4	ELECTRICAL PULL BOX	4	CONCRETE SIDEWALK
5	EXISTING LIGHT POLE	5	EXISTING LIGHT POLE

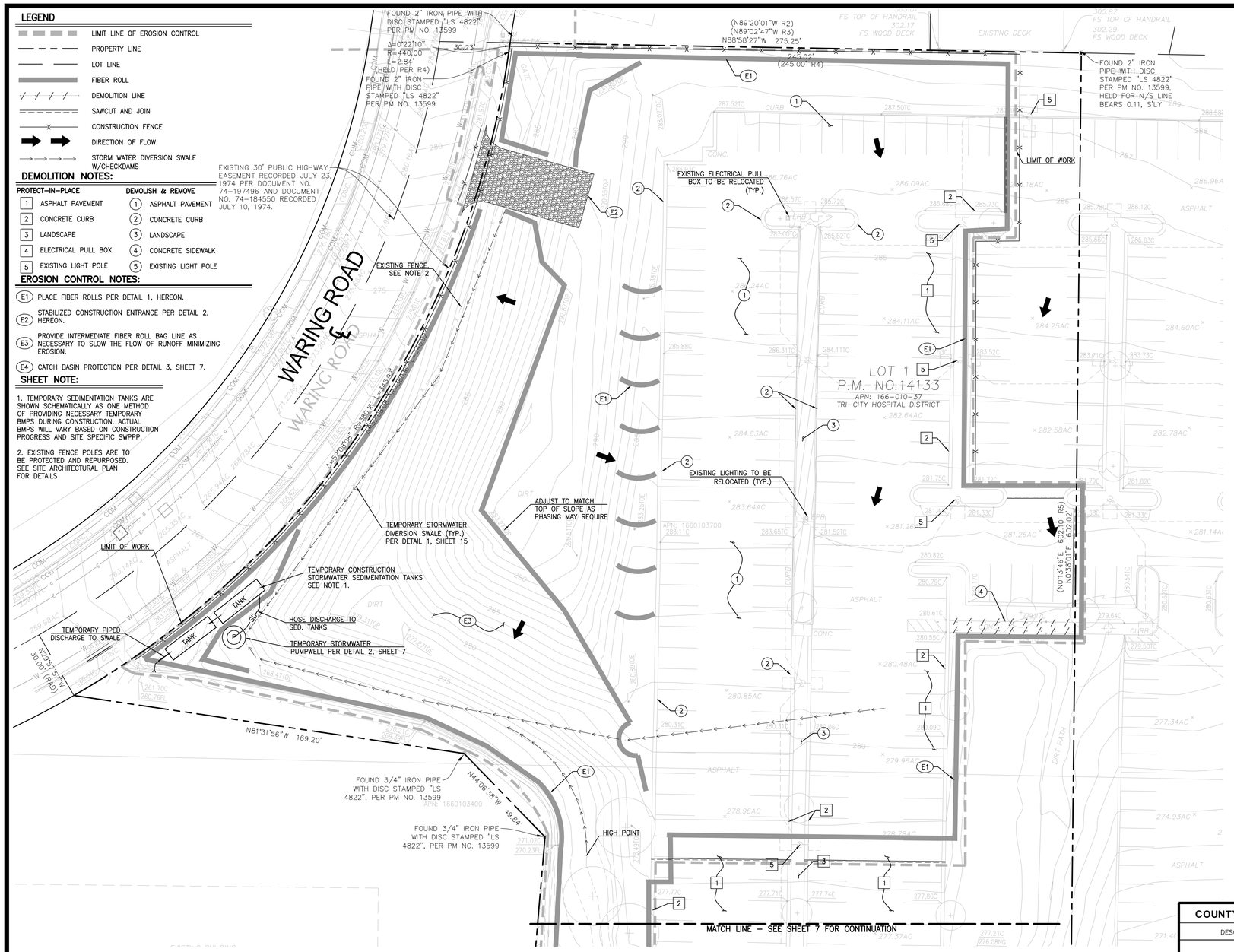
EROSION CONTROL NOTES:

- (E1) PLACE FIBER ROLLS PER DETAIL 1, HEREON.
- (E2) STABILIZED CONSTRUCTION ENTRANCE PER DETAIL 2, HEREON.
- (E3) PROVIDE INTERMEDIATE FIBER ROLL BAG LINE AS NECESSARY TO SLOW THE FLOW OF RUNOFF MINIMIZING EROSION.
- (E4) CATCH BASIN PROTECTION PER DETAIL 3, SHEET 7.

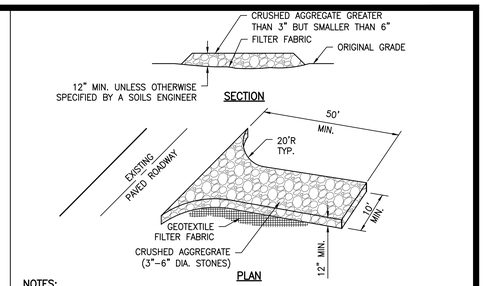
SHEET NOTE:

1. TEMPORARY SEDIMENTATION TANKS ARE SHOWN SCHEMATICALLY AS ONE METHOD OF PROVIDING NECESSARY TEMPORARY BMPS DURING CONSTRUCTION. ACTUAL BMPS WILL VARY BASED ON CONSTRUCTION PROGRESS AND SITE SPECIFIC SWPPP.

2. EXISTING FENCE POLES ARE TO BE PROTECTED AND REPURPOSED. SEE SITE ARCHITECTURAL PLAN FOR DETAILS



2 STABILIZED CONSTRUCTION ENTRANCE N.T.S.

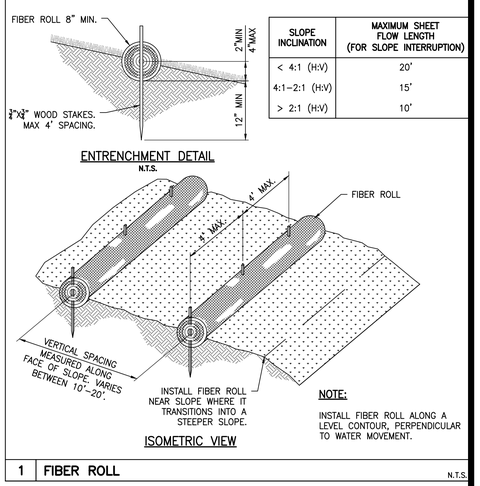


NOTES:

1. THE CONSTRUCTION ENTRANCE ROADWAYS SHALL BE STABILIZED SO AS TO PREVENT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC ROADS. DEPOSITIONS MUST BE SWEPT UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS INTO THE STORM DRAIN SYSTEM.
2. STABILIZED CONSTRUCTION ENTRANCE SHALL BE LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE OR FROM A PUBLIC RIGHT OF WAY, STREET, ALLEY, AND SIDEWALK OR PARKING AREA.
3. IF A WASH RACK IS INCLUDED, A SEDIMENT TRAP OF SOME KIND MUST ALSO BE PROVIDED TO COLLECT WASH WATER RUNOFF.
4. ALL VEHICLES ACCESSING THE CONSTRUCTION SITE SHALL UTILIZE THE STABILIZED CONSTRUCTION ENTRANCE.

STREET MAINTENANCE NOTES

1. REMOVE ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS IMMEDIATELY.
2. SWEEP PAVED AREAS THAT RECEIVE CONSTRUCTION TRAFFIC WHENEVER SEDIMENT BECOMES VISIBLE.
3. PAVEMENT WASHING WITH WATER IS PROHIBITED IF IT RESULTS IN A DISCHARGE TO THE STORM DRAIN SYSTEM



SLOPE INCLINATION	MAXIMUM SHEET FLOW LENGTH (FOR SLOPE INTERRUPTION)
< 4:1 (H:V)	20'
4:1–2:1 (H:V)	15'
> 2:1 (H:V)	10'

NOTE:

INSTALL FIBER ROLL ALONG A LEVEL CONTOUR, PERPENDICULAR TO WATER MOVEMENT.

1 FIBER ROLL N.T.S.

N

0 10' 20'

SCALE: 1"=20'

COUNTY APPROVED CHANGES

DESCRIPTION:	APPROVED BY:	DATE:

PRIVATE CONTRACT

SHEET	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	SHEETS
6		21

PRIORITY DEVELOPMENT PROJECT
DEMOLITION AND EROSION CONTROL PLAN – NORTH SHEET FOR:
TRI–CITY MEDICAL CENTER
PSYCHIATRIC HEALTH FACILITY
CALIFORNIA COORDINATE INDEX 380–1700

APPROVED FOR WILLIAM P. MORGAN COUNTY ENGINEER

ENGINEER OF WORK
JEFF GRAZZA, PE
R.C.E. C39894

GRADING PERMIT NO:
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ENGINEER'S NAME: EVAN LAKIN
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REGISTERED PROFESSIONAL ENGINEER
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Exp. 12/31/23
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STATE OF CALIFORNIA

Drawing Title:

DEMOLITION AND EROSION CONTROL PLAN - NORTH

Issue Date: 12/15/2021

Project No.: 006240.00 Checked by: AL/ EL

C1006

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LEGEND

- LIMIT LINE OF EROSION CONTROL
- PROPERTY LINE
- LOT LINE
- GRAVEL BAGS
- DEMOLITION LINE
- SAWCUT AND JOIN
- CONSTRUCTION FENCE
- DIRECTION OF FLOW
- STORM WATER DIVERSION SWALE W/ CHECKDAMS

DEMOLITION NOTES:

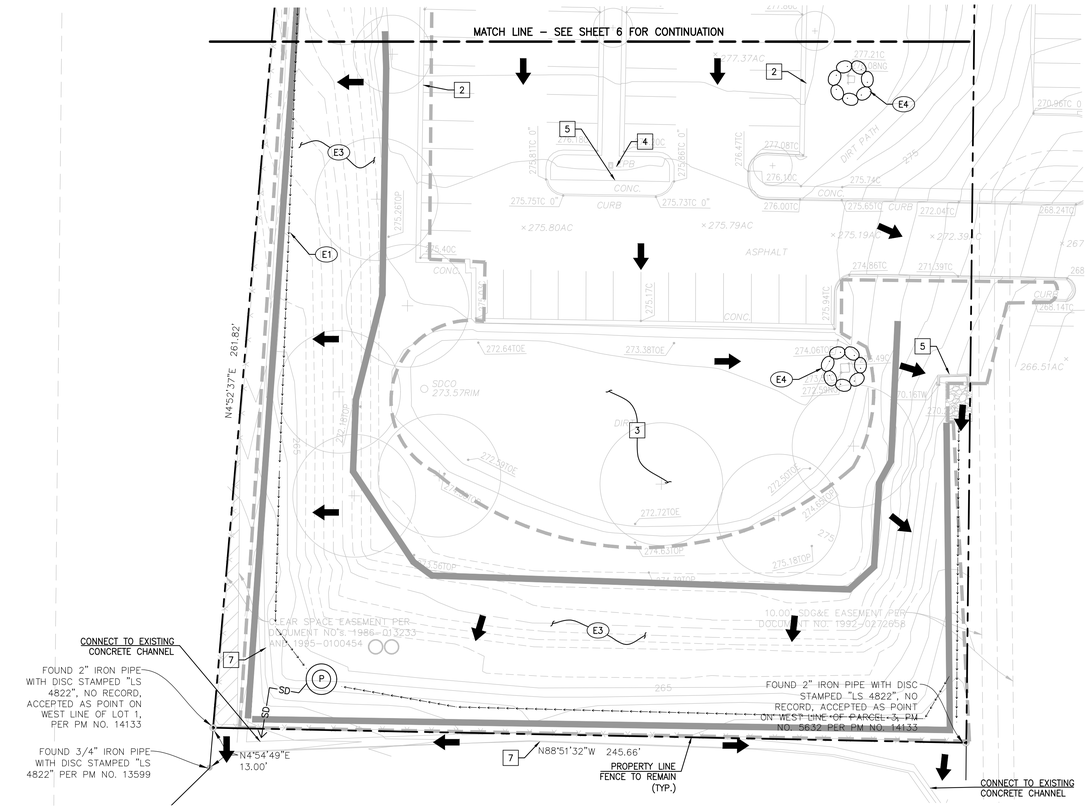
PROTECT–IN–PLACE		DEMOLISH & REMOVE	
1	ASPHALT PAVEMENT	1	ASPHALT PAVEMENT
2	CONCRETE CURB	2	CONCRETE CURB
3	LANDSCAPE	3	LANDSCAPE
4	ELECTRICAL PULL BOX	4	CONCRETE SIDEWALK
5	STORM DRAINAGE HEADWALL AND ROCK–LINED SWALE	5	EXISTING LIGHT POLE
6	EXISTING LIGHT POLE		
7	CONCRETE SWALE		

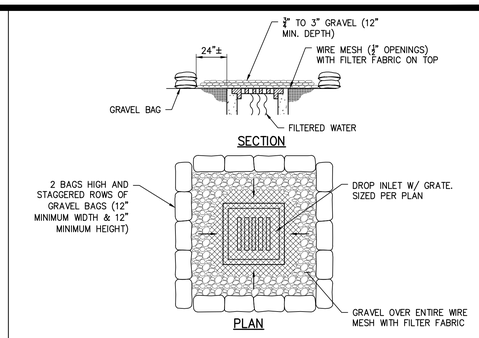
EROSION CONTROL NOTES:

- E1 PLACE FIBER ROLLS PER DETAIL 1, SHEET 6.
- E2 STABILIZED CONSTRUCTION ENTRANCE PER DETAIL 2, SHEET 6.
- E3 PROVIDE INTERMEDIATE FIBER ROLL LINE AS NECESSARY TO SLOW THE FLOW OF RUNOFF MINIMIZING EROSION.
- E4 CATCH BASIN PROTECTION PER DETAIL 3, HEREON.

SHEET NOTE:

1. TEMPORARY SEDIMENTATION TANKS ARE SHOWN SCHEMATICALLY AS ONE METHOD OF PROVIDING NECESSARY TEMPORARY BMPS DURING CONSTRUCTION. ACTUAL BMPS WILL VARY BASED ON CONSTRUCTION PROGRESS AND SITE SPECIFIC SWPPP.

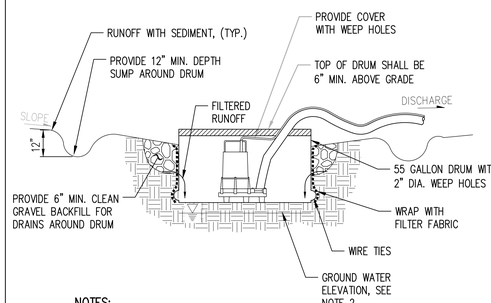




NOTES:

1. PLACE WIRE MESH OVER AND 1' (MINIMUM) BEYOND THE INLET STRUCTURE. (MESH OPENINGS NOT TO EXCEED ½" x ½" WIRE)
2. PLACE FILTER FABRIC OVER WIRE MESH.
3. PLACE ¾" TO 3" GRAVEL OVER THE WIRE MESH WITH FILTER FABRIC (12" MINIMUM DEPTH OVER THE ENTIRE INLET OPENING).
4. BAG MATERIAL: BAGS SHOULD BE WOVEN POLYPROPYLENE, POLYETHYLENE OR POLYAMIDE FABRIC, MINIMUM UNIT WEIGHT OF 4 OUNCES/YD², MULLEN BURST STRENGTH EXCEEDING 300 LB/IN² IN CONFORMANCE WITH THE REQUIREMENTS IN ASTM DESIGNATION D3786, AND ULTRAVIOLET STABILITY EXCEEDING 70% IN CONFORMANCE WITH THE REQUIREMENTS IN ASTM DESIGNATION D4355.
5. BAG SIZE: EACH GRAVEL–FILLED BAG SHOULD HAVE A LENGTH OF 18 IN., WIDTH OF 12 IN., THICKNESS OF 3 IN., AND MASS OF APPROXIMATELY 33 LBS. BAG DIMENSIONS ARE NOMINAL, AND MAY VARY BASED ON LOCALLY AVAILABLE MATERIALS.
6. FILL MATERIAL: FILL MATERIAL SHALL BE 0.5 TO 1.0 INCH CRUSHED ROCK, CLEAN AND FREE OF CLAY, ORGANIC MATTER, AND OTHER DELETERIOUS MATERIAL, OR OTHER SUITABLE OPEN–GRADED, NON–COHESIVE, POROUS GRAVEL.
7. USE PYRAMID APPROACH WHEN STACKING BAGS.
8. LEAVE GAP OF ONE BAG ON TOP ROW TO SERVE AS SPILLWAY.

3 STORM DRAIN INLET PROTECTION N.T.S.



NOTES:

1. PUMPS SHALL BE SUBMERSIBLE, AND HAVE A MIN. CAPACITY OF 0.54 CFS (245 GPM).
2. BOTTOM OF SUMP SHALL BE LOCATED ABOVE THE ESTIMATED HIGH GROUND WATER ELEVATION.

4 STORM DRAIN INLET PROTECTION N.T.S.

N
0 10' 20'
SCALE: 1"=20'

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COUNTY APPROVED CHANGES

DESCRIPTION:	APPROVED BY:	DATE:

PRIVATE CONTRACT

SHEET 7	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	21 SHEETS

PRIORITY DEVELOPMENT PROJECT
DEMOLITION AND EROSION CONTROL PLAN – NORTH SHEET FOR:
TRI–CITY MEDICAL CENTER PSYCHIATRIC HEALTH FACILITY
CALIFORNIA COORDINATE INDEX 380–1700

APPROVED FOR WILLIAM P. MORGAN COUNTY ENGINEER

ENGINEER OF WORK: JEFF GRAZZA, PE R.C.E. 73894

GRADING PERMIT NO: PDS2021–LDGRMJ–30378

ENGINEER'S NAME: EVAN LAKIN
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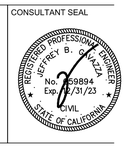
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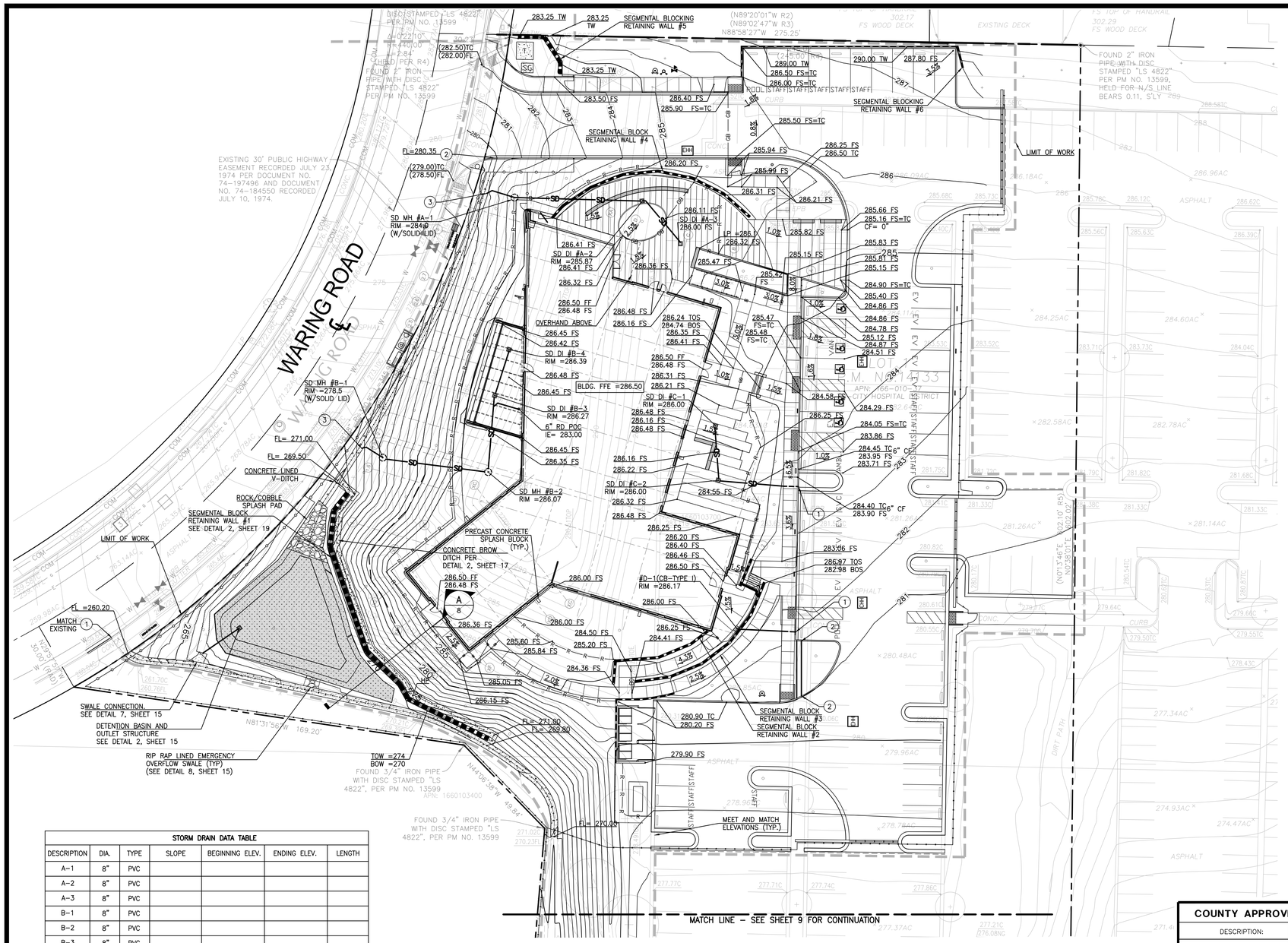
Drawing Title:

DEMOLITION AND EROSION CONTROL PLAN - SOUTH

Issue Date: 12/15/2021
Project No.: 006240.00 Checked by: AL/ EL

C1007

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STORM DRAIN DATA TABLE						
DESCRIPTION	DIA.	TYPE	SLOPE	BEGINNING ELEV.	ENDING ELEV.	LENGTH
A–1	8"	PVC				
A–2	8"	PVC				
A–3	8"	PVC				
B–1	8"	PVC				
B–2	8"	PVC				
B–3	8"	PVC				
B–4	8"	PVC				
C–1	8"	PVC				
C–2	8"	PVC				

LEGEND

- LIMIT OF WORK
- PROPERTY LINE
- LOT LINE
- SD — STORM DRAIN LINE
- GB — GB — GRADE BREAK
- R — R — R — RIDGE LINE
- EARTHEN SWALE
- SAWCUT AND JOIN
- TOP / TOE — GRADE SLOPE (HORIZONTAL:VERTICAL)
- FENCE LINE
- DAYLIGHT
- 200 — PROPOSED MAJOR CONTOUR
- 202 — PROPOSED MINOR CONTOUR
- 48" SDMH PER DETAIL 1, SHEET 15.
- TYPE F CATCH BASIN PER DETAIL 2, SHEET 15.
- LANDSCAPE PEDESTRIAN INLET (SEE LANDSCAPE PLAN)
- CLEANOUT PER DETAIL 3, SHEET 15.
- BIORETENTION POND/PLANTER PER DETAIL 4, SHEET 15.
- CONCEPTUAL RETAINING WALL/SEAT WALL (SPEC'D AND DESIGNED BY SEPARATE WALL DESIGNER AS PART OF SEPARATE, DEFERRED SUBMITTAL)
- AIR RELEASE VALVE
- SITE BENCH
- CUT/FILL LINE

SHEET NOTES:

1. GRADES SHOWN ON BASED ON PROVIDED SITE SURVEY. CONTRACTOR TO CONFIRM GRADING CONDITION AGAINST BOUNDARIES PRIOR TO CONSTRUCTION.
   1. SIDEWALK UNDERDRAIN PER DETAIL 5, SHEET 15.
   2. CURB CUT WITH FLUME PER DETAIL 6, SHEET 15.
   3. PIPE SWALE CONNECTION PER DETAIL 7, SHEET 15.

BMP STENCIL PLACEMENT NOTES:

A. ALL STORM DRAIN INLETS AND CATCH BASINS WITHIN THE PROJECT AREA SHALL HAVE A STENCIL OR TILE PLACED WITH PROHIBITIVE LANGUAGE (SUCH AS:"NO DUMPING" – I LIVE IN PACIFIC OCEAN AND/OR GRAPHICAL ICONS TO DISCOURAGE ILLEGAL DUMPING.

B. SIGNS AND PROHIBITIVE LANGUAGE AND/OR GRAPHICAL ICONS, WHICH PROHIBIT ILLEGAL DUMPING, MUST BE POSTED AT PUBLIC ACCESS POINTS ALONG CHANNELS AND CREEKS WITHIN THE PROJECT AREA.

C. LEGIBILITY OF STENCILS, TILES AND SIGNS MUST BE MAINTAINED AND TILES MUST BE PLACED FLUSH WITH THE TOP OF CONCRETE TO REDUCE TRIPPING BY PEDESTRIANS.

N

0 10' 20'

SCALE: 1"=20'

COUNTY APPROVED CHANGES		
DESCRIPTION:	APPROVED BY:	DATE:

PRIVATE CONTRACT

SHEET	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	21 SHEETS
8		

PRIORITY DEVELOPMENT PROJECT GRADING AND DRAINAGE – NORTH SHEET FOR:

TRI–CITY MEDICAL CENTER
PSYCHIATRIC HEALTH FACILITY
CALIFORNIA COORDINATE INDEX 380–1700

APPROVED FOR WILLIAM P. MORGAN COUNTY ENGINEER

ENGINEER OF WORK: JEFF GAVIAZZA, PE R.C.E. C59894

GRADING PERMIT NO: PDS2021–LDGRMJ–30378

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	ISSUE FOR PLAN REVIEW	27 OCT 2021
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	ISSUE FOR GRADING PERMIT	03 DEC 2020
	AGENCY APPROVAL	

ARCHITECT SEAL

CONSULTANT SEAL

REGISTERED PROFESSIONAL ENGINEER JEFFREY B. GAVIAZZA No. 59894 Exp. 12/31/23 CIVIL STATE OF CALIFORNIA

Drawing Title:

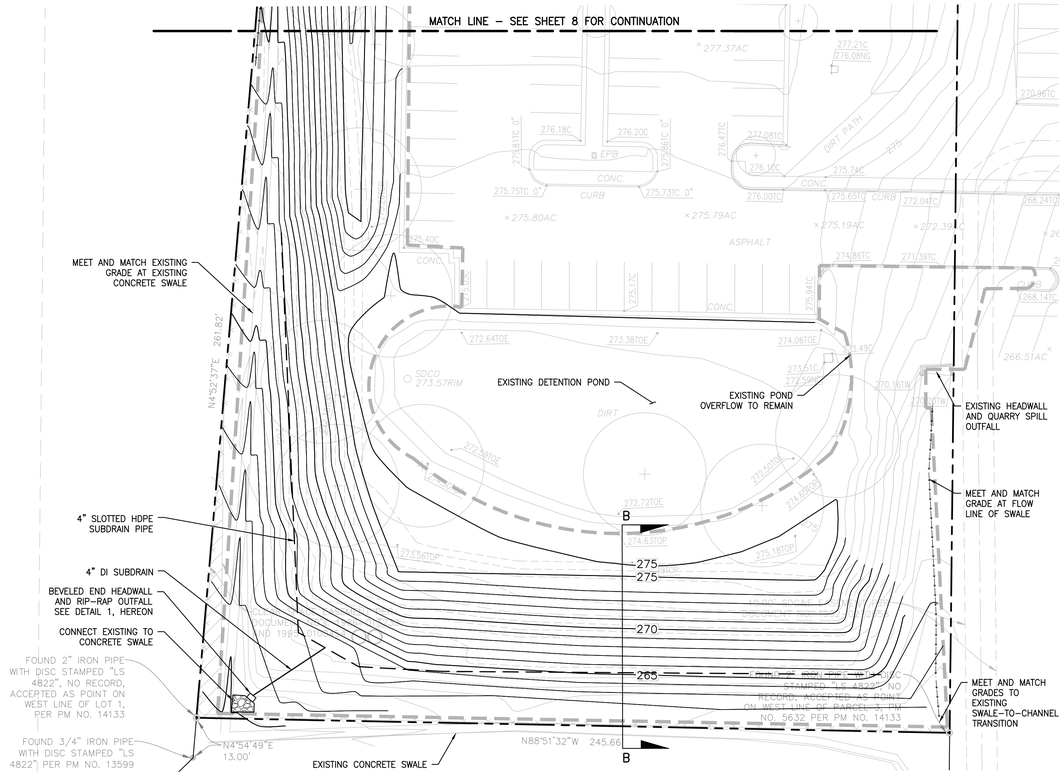
GRADING AND DRAINAGE - NORTH

Issue Date: 12/15/2021

Project No.: 006240.00 Checked by: AL/ EL

C1008

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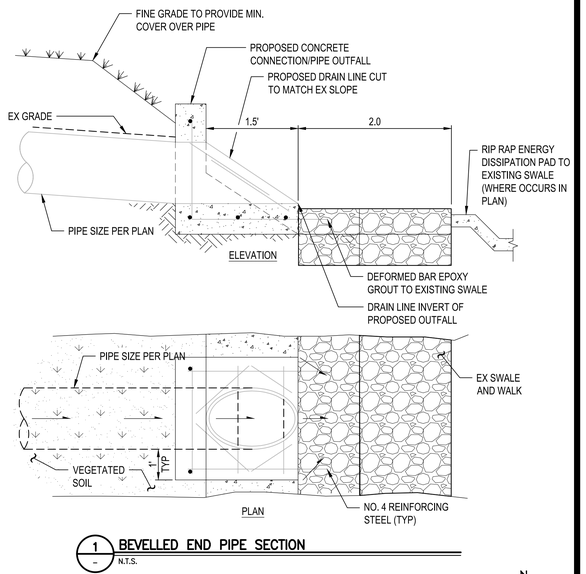


LEGEND

- LIMIT OF WORK
- PROPERTY LINE
- LOT LINE
- SD — STORM DRAIN LINE
- GB — GB — GRADE BREAK
- R — R — R — RIDGE LINE
- EARTHEN SWALE
- SAWCUT AND JOIN
- TOP / TOE — GRADE SLOPE (HORIZONTAL:VERTICAL)
- LIMITS OF GRADING
- GRADING BENCH
- 100 — PROPOSED MAJOR CONTOUR
- 102 — PROPOSED MINOR CONTOUR
- PERFORATED PIPE

SHEET NOTES:

1. AREAS OF EMBANKMENT WITH EXISTING SLOPES GREATER THAN 4:1 REQUIRE KEYING AND BENCHING PER SECTION 7 OF THE PROJECT'S GEOTECHNICAL REPORT, CTE INC. DATED: 1/6/2020.



1 – BEVELLED END PIPE SECTION
N.T.S.

N

0 10' 20'
SCALE: 1"=20'

COUNTY APPROVED CHANGES

DESCRIPTION:	APPROVED BY:	DATE:

PRIVATE CONTRACT

SHEET	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	SHEETS
9		21

PRIORITY DEVELOPMENT PROJECT GRADING AND DRAINAGE – NORTH SHEET FOR:

TRI-CITY MEDICAL CENTER
PSYCHIATRIC HEALTH FACILITY
CALIFORNIA COORDINATE INDEX 380-1700

APPROVED FOR WILLIAM P. MORGAN
COUNTY ENGINEER

ENGINEER OF WORK
JEFF GRAZZA, PE
R.C.E. C39894

GRADING PERMIT NO:
PDS2021-LDGRMJ-30378

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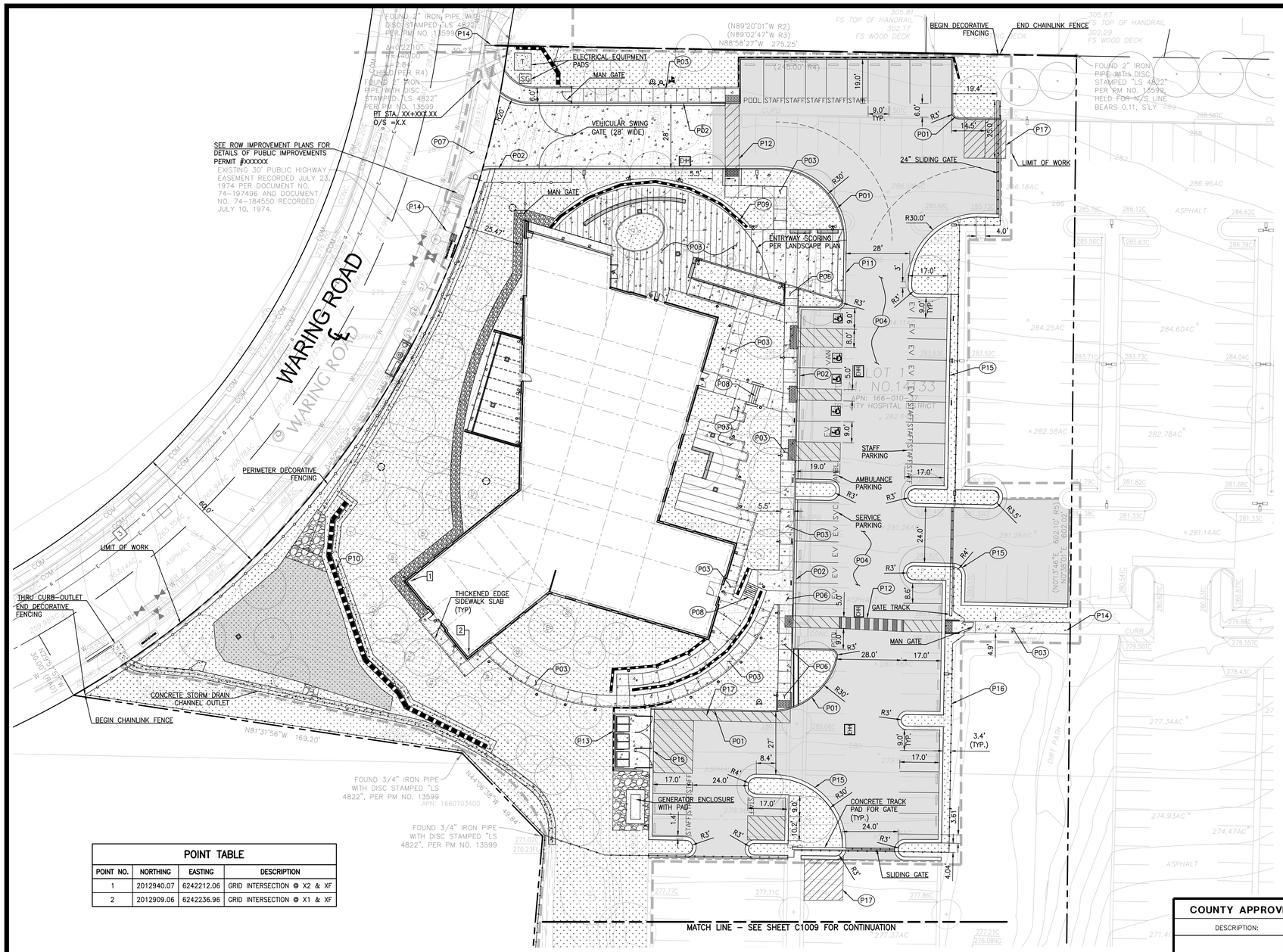
Drawing Title:

GRADING AND DRAINAGE - SOUTH

Issue Date: 12/15/2021
Project No.: 006240.00 Checked by: AL/ EL

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POINT TABLE

POINT NO.	NORTHING	EASTING	DESCRIPTION
1	2012940.07	6242212.06	GRID INTERSECTION ⊕ X2 & XF
2	2012909.06	6242236.96	GRID INTERSECTION ⊕ X1 & XF

PAVING CONSTRUCTION NOTES

- P01 CONCRETE CURB. PER DETAIL 5, SHEET 18.
- P02 TYPE G CONCRETE CURB AND GUTTER. PER DETAIL 6, SHEET 18.
- P03 SIDEWALK. PER DETAIL 7, SHEET 18.
- P04 ASPHALT CONCRETE PAVEMENT. PER DETAIL 4, ON 19.
- P05 CONCRETE PAVEMENT. PER DETAIL 4, ON 18.
- P06 CURB RAMP. PER DETAIL 8 SHEET 18.
- P07 CONCRETE DRIVEWAY. PER DETAIL 1, SHEET 19.
- P08 CONCRETE STAIRS. (SEE LANDSCAPE PLAN FOR DETAILS)
- P09 SEAT WALL. (SEE LANDSCAPE PLAN FOR DETAILS)
- P10 MANUFACTURED SEGMENTAL BLOCK WALL. SEE DETAIL 2, SHEET 19.
- P11 TYPE B ROLLED CURB PER DETAILS 3, SHEET 19.
- P12 STRIPED PEDESTRIAN CROSSWALK. SEE DETAIL 1, SHEET 17.
- P13 TRASH ENCLOSURE. (SEE ARCHITECTURAL SITE PLAN FOR DETAILS)
- P14 MEET AND MATCH CLOSET PAVEMENT JOINT.
- P15 FLUSH CURB MATCH EXISTING. SEE DETAIL 5, SHEET 19.
- P16 CHAINLINK FENCE. DETAIL 2 AND 3, SHEET 20.
- P17 STRIPED "NO PARKING" AREA. COLOR WHITE IS SUBSTITUTED FOR BLUE STRIPES PER NOTE T01 ON SHEET 12

LEGEND

- LIMIT OF WORK
- PROPERTY LINE
- SAWCUT AND JOIN
- THICKENED EDGE SIDEWALK REFER TO DETAIL 4, SHEET 18
- LOT LINE
- CONCRETE PAVING (REFER TO SHEET C1009 FOR DETAILS)
- ASPHALT (REFER TO DETAIL 4, SHEET 19)
- PLANTER AREA/LANDSCAPE (REFER TO LANDSCAPING PLANS FOR DETAILS)
- BIORETENTION POND/PLANTER (REFER TO LID PLAN FOR DETAILS)
- CINDER/CRUSHED GRAVEL PATHWAY (REFER TO LANDSCAPING PLANS FOR DETAILS)

43 PATIENT/VISITORS STALLS REQUIRED FOR BUILDING
25 GENERAL
10 EV STALLS REQUIRED (5 W/ CHARGERS)
1 EA "SIGNED ADA EV STALL (1 CHARGER)
2 POOL STALLS
5 ADA STALLS PROVIDED
1 AMBULANCE PARKING
8 STAFF STALLS
134 PRECONSTRUCTION STALLS

N
0 10' 20'
SCALE: 1"=20'

COUNTY APPROVED CHANGES

DESCRIPTION:	APPROVED BY:	DATE:

PRIVATE CONTRACT

SHEET 10 | COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS | 21 SHEETS

PRIORITY DEVELOPMENT PROJECT HORIZONTAL CONTROL AND PAVING PLAN – NORTH
SHEET FOR:
TRI-CITY MEDICAL CENTER
PSYCHIATRIC HEALTH FACILITY
CALIFORNIA COORDINATE INDEX 380-1700

APPROVED FOR WILLIAM P. MORGAN COUNTY ENGINEER

ENGINEER OF WORK: JEFF. GAVAZZA, PE R.C.E. C39894

GRADING PERMIT NO: PDS2021-LDGRMJ-30378

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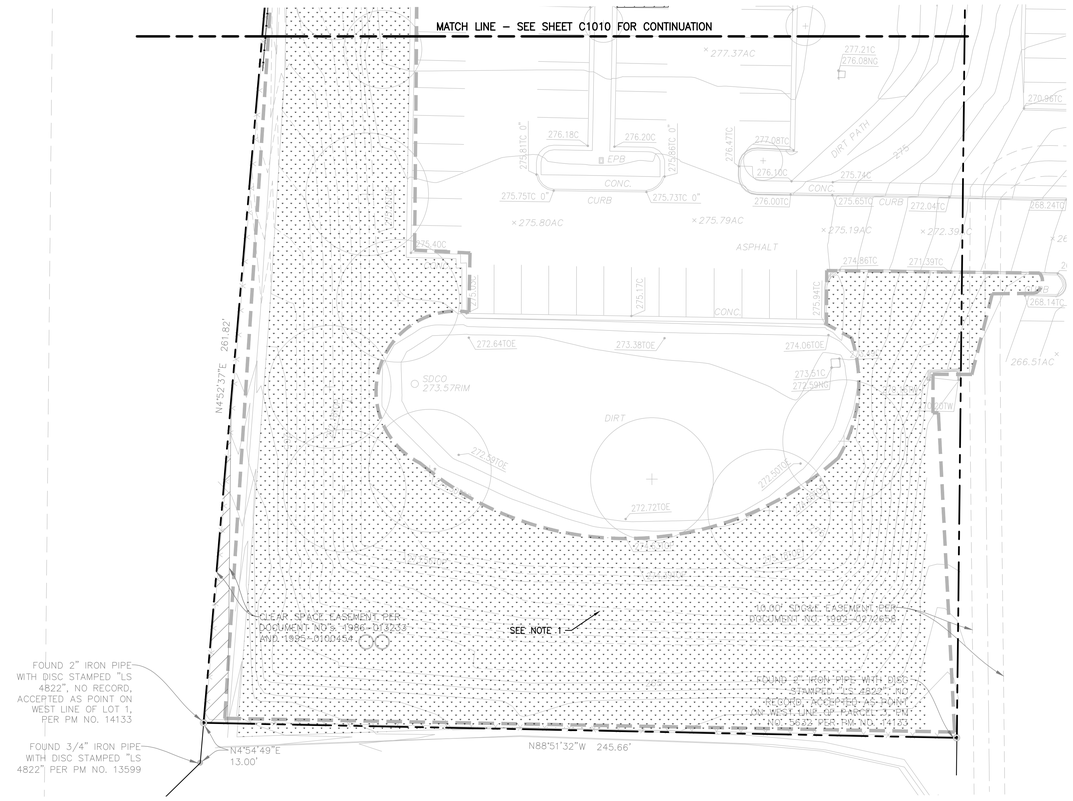
HORIZONTAL CONTROL AND PAVING PLAN - NORTH

Issue Date: 12/15/2021

Project No.: 006240.00 Checked by: AL/ EL

C1010

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LEGEND

- LIMIT OF WORK
- PROPERTY LINE
- SAWCUT AND JOIN
- LOT LINE
- PLANTER AREA/LANDSCAPE (REFER TO LANDSCAPING PLANS FOR DETAILS)

SHEET NOTE:

1. THIS PROJECT DOES NOT PROPOSE NEW PAVEMENTS IN THIS AREA, SCOPE WILL RESURFACE EXISTING LANDSCAPE AREAS AS INDICATED.

N

0 10' 20'

SCALE: 1"=20'

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COUNTY APPROVED CHANGES

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PRIVATE CONTRACT

SHEET	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	21 SHEETS
11		

PRIORITY DEVELOPMENT PROJECT HORIZNTAL CONTROL AND PAVING PLAN – SOUTH
SHEET FOR:
TRI–CITY MEDICAL CENTER
PSYCHIATRIC HEALTH FACILITY
CALIFORNIA COORDINATE INDEX 380–1700

APPROVED FOR WILLIAM P. MORGAN
COUNTY ENGINEER

ENGINEER OF WORK
JEFF GAVAZZA, PE
R.C.E. C39894

GRADING PERMIT NO:
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Exp. 12/31/23
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Drawing Title:

HORIZNTAL CONTROL AND PAVING PLAN - SOUTH

Issue Date: 12/15/2021

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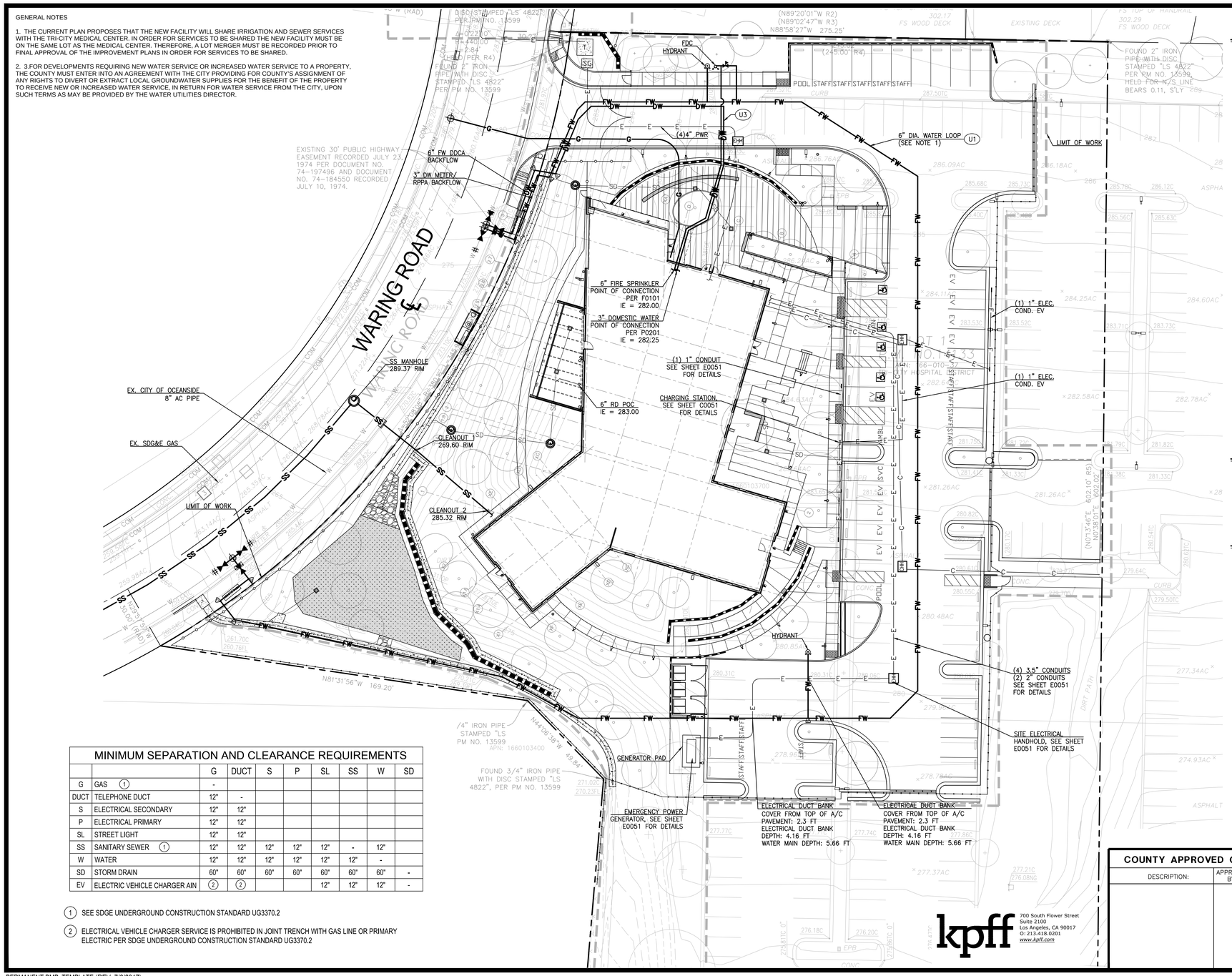
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GENERAL NOTES

1. THE CURRENT PLAN PROPOSES THAT THE NEW FACILITY WILL SHARE IRRIGATION AND SEWER SERVICES WITH THE TRI-CITY MEDICAL CENTER. IN ORDER FOR SERVICES TO BE SHARED THE NEW FACILITY MUST BE ON THE SAME LOT AS THE MEDICAL CENTER. THEREFORE, A LOT MERGER MUST BE RECORDED PRIOR TO FINAL APPROVAL OF THE IMPROVEMENT PLANS IN ORDER FOR SERVICES TO BE SHARED.

2. 3.FOR DEVELOPMENTS REQUIRING NEW WATER SERVICE OR INCREASED WATER SERVICE TO A PROPERTY, THE COUNTY MUST ENTER INTO AN AGREEMENT WITH THE CITY PROVIDING FOR COUNTY'S ASSIGNMENT OF ANY RIGHTS TO DIVERT OR EXTRACT LOCAL GROUNDWATER SUPPLIES FOR THE BENEFIT OF THE PROPERTY TO RECEIVE NEW OR INCREASED WATER SERVICE. IN RETURN FOR WATER SERVICE FROM THE CITY, UPON SUCH TERMS AS MAY BE PROVIDED BY THE WATER UTILITIES DIRECTOR.



LEGEND:

- LIMIT OF WORK
- PROPERTY LINE
- LOT LINE
- SS — SANITARY SEWER PER DETAIL 1, DETAIL 2, DETAIL 3, SHEET 16.
- FM — SANITARY SEWER FORCE MAIN DIP OR AWWA C900 PRESSURE PIPE
- W — WATER MAIN PER DETAIL 4 AND DETAIL 5, SHEET 16
- DW — DOMESTIC WATER SERVICE LATERAL
- FW — FIRE WATER SERVICE LATERAL
- E — ELECTRICAL LINE
- C — COMMUNICATION LINE
- G — GAS LINE
- UT — JOINT DRY UTILITY TRENCH
- STORM DRAIN LINE
- MANHOLE
- LANDSCAPE PEDESTRIAN INLET
- ROOF DRAIN DOWNSPOUT
- FIRE HYDRANT PER DETAIL 4 AND DETAIL 6, SHEET 16.
- FIRE DEPARTMENT CONNECTION (FDC) PER DETAIL 7, SHEET 16.
- BACKFLOW ASSEMBLY PER DETAIL 1, SHEET 17.
- UTILITY METER VAULT PER DETAIL 2, SHEET 17.
- CLEANOUT PER DETAIL 3, SHEET 15.
- NON-RISING STEM GATE VALVE PER DETAIL 3 AND 4, SHEET 17.
- POST-INDICATOR VALVE PER DETAIL 5, SHEET 17.
- PUBLIC UTILITY POC.
- RESTRAINED JOINT COUPLING ADAPTER.

UTILITY CONSTRUCTION NOTES:

- (U1) 6" DIA RESTRAINED JOINT PVC FIRE SPRINKLER WATER PIPE.
- (U2) 8" DIA. GRAVITY PVC SEWER PIPE, PER DETAIL 5, SHEET 16 AND DETAIL 3, SHEET 15.
- (U3) 3" DIA RESTRAINED JOINT PVC DOMESTIC WATER PIPE.
- (U4) 4' DIA. SS MANHOLE, PER DETAIL 6, SHEET 17.

WATER UTILITY NOTES:

1. CAUTION: CITY WATER MAINS HAVE A TYPICAL DEPTH OF 36-INCHES. ACTUAL DEPTHS OF ALL WATER UTILITIES DEPARTMENT'S MAINS SUCH AS WATER, GRAVITY SEWER, SEWER FORCE MAIN, RECYCLED WATER, WELL LINE, AND PURE WATER LINES SHALL BE VERIFIED BY POTHOLING AT ALL CROSSINGS WITH THE PROPOSED UNDERGROUND UTILITY LINE.
2. WATER, SEWER, RECYCLED WATER, AND PURE WATERMAINS MARKED-UP HEREON ARE FOR REFERENCE ONLY. EXACT LOCATIONS SHOULD BE DETERMINED FROM RECORD DRAWINGS AND FIELD VERIFIED.
3. IF ANY PROPOSED UNDERGROUND UTILITY LINE IS WITHIN 10 FEET OF A WATER UTILITIES MAIN PER PLAN OR FIELD MARK OUT, THEN THE EXISTING PUBLIC MAIN MUST BE POTHOLED EVERY 100 FT, OR AT AN INTERVAL AGREEABLE TO THE WATER UTILITIES INSPECTOR, TO CONFIRM ITS LOCATION PRIOR TO INSTALLING THE UNDERGROUND UTILITY LINE. THE PROPOSED UNDERGROUND UTILITY LINE ALIGNMENT MUST ALSO BE MARKED OUT IN THE FIELD. DEPENDING UPON THE DEPTH OF THE UNDERGROUND UTILITY LINE TO THE CITY'S MAIN AND INSTALLATION METHOD, THE WATER UTILITIES INSPECTOR MAY MAKE EXCEPTION TO THIS POTHOLING REQUIREMENT.
4. MAINTAIN A MINIMUM 5 FEET OF SEPARATION AT ALL TIMES BETWEEN OUTSIDE DIAMETER OF CITY MAINS AND THE OUTSIDE DIMENSION OF PROPOSED UNDERGROUND UTILITY LINES AND STRUCTURES.
5. CONTRACTOR SHALL PROVIDE ELECTRONIC FILES IN AUTOCAD COMPATIBLE OR GIS FORMAT OF THE RECORD DRAWING UTILITY LINES PRIOR TO THE RELEASE OF BONDS.

NOTES:

1. WATER LINE IS ANTICIPATED TO BE CONSTRUCTED USING RESTRAINED JOINT PIPING. IF STANDARD PIPING IS ANTICIPATED THRUST BLOCKS WILL BE REQUIRED IAW PER DETAIL 7, SHEET 17.

N

0 10' 20'

SCALE: 1"=20'

MINIMUM SEPARATION AND CLEARANCE REQUIREMENTS

		G	DUCT	S	P	SL	SS	W	SD
G	GAS (1)	-							
DUCT	TELEPHONE DUCT	12"	-						
S	ELECTRICAL SECONDARY	12"	12"						
P	ELECTRICAL PRIMARY	12"	12"						
SL	STREET LIGHT	12"	12"						
SS	SANITARY SEWER (1)	12"	12"	12"	12"	12"	-	12"	
W	WATER	12"	12"	12"	12"	12"	12"	-	
SD	STORM DRAIN	60"	60"	60"	60"	60"	60"	60"	-
EV	ELECTRIC VEHICLE CHARGER AIN	(2)	(2)			12"	12"	12"	-

(1) SEE SDGE UNDERGROUND CONSTRUCTION STANDARD UG3370.2

(2) ELECTRICAL VEHICLE CHARGER SERVICE IS PROHIBITED IN JOINT TRENCH WITH GAS LINE OR PRIMARY ELECTRIC PER SDGE UNDERGROUND CONSTRUCTION STANDARD UG3370.2

COUNTY APPROVED CHANGES

DESCRIPTION:	APPROVED BY:	DATE:

PRIVATE CONTRACT

SHEET	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	SHEETS
12		21

PRIORITY DEVELOPMENT PROJECT UTILITY SHEET FOR:

TRI-CITY MEDICAL CENTER PSYCHIATRIC HEALTH FACILITY

CALIFORNIA COORDINATE INDEX 380-1700

APPROVED FOR WILLIAM P. MORGAN COUNTY ENGINEER

ENGINEER OF WORK JEFF GAVAZZA, PE R.C.E. C59894

GRADING PERMIT NO: PDS2021-LDGRMJ-30378

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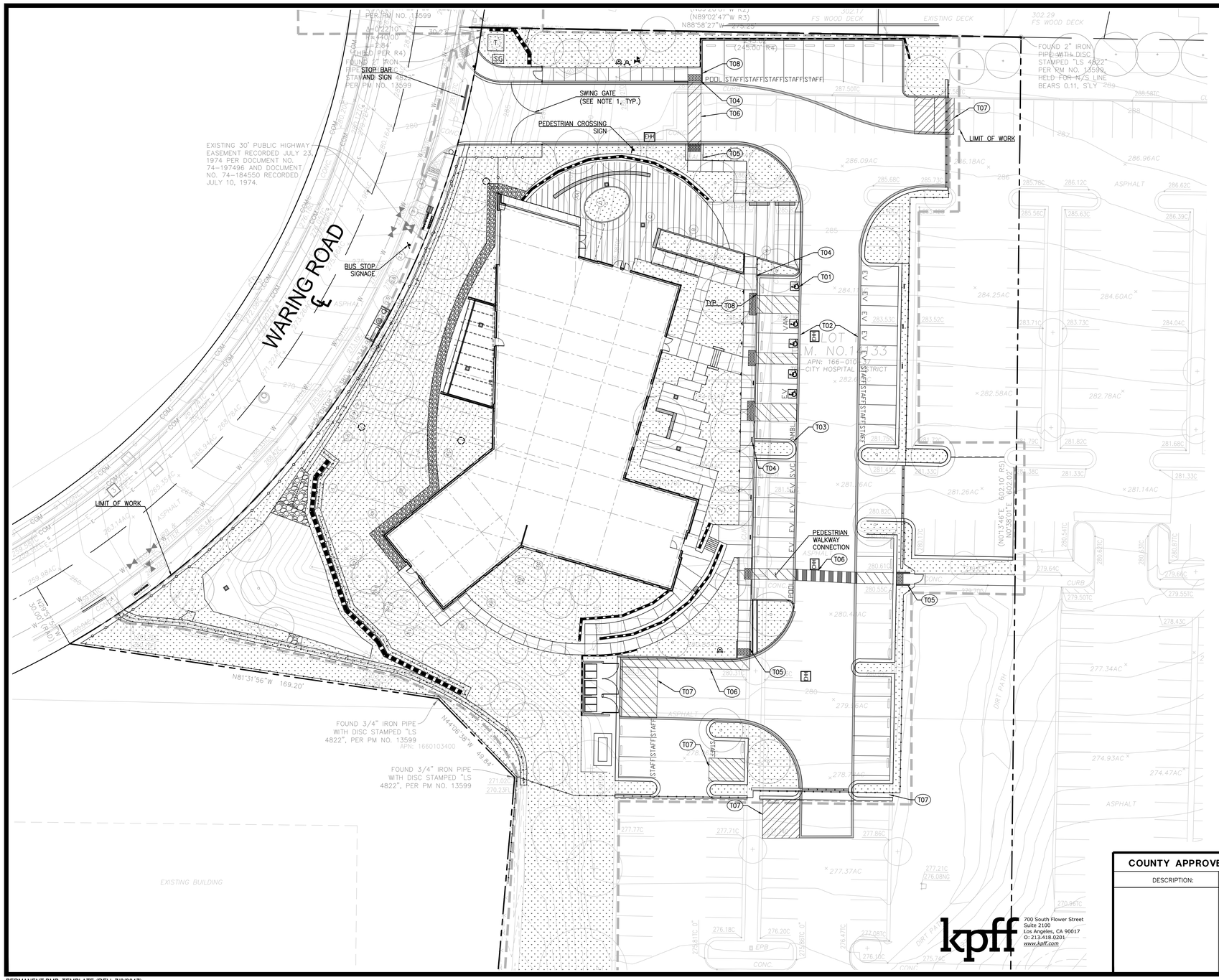
UTILITY PLAN

Issue Date: 12/15/2021

Project No.: 006240.00 Checked by: AL/ EL

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PAVING CONSTRUCTION NOTES

- T01 DISABLED PERSONS PARKING STALL STRIPING DETAIL 7 AND 8 , SHEET 19.
- T02 FIRE LANE SIGNAGE/STRIPING PER CITY OF OCEANSIDE FIRE MASTER PLAN ATTACHMENTS SEE SHEET 20 FOR DETAILS.
- T03 4" WIDE WHITE PARKING STALL STRIPE.
- T04 TYPE C CURB RAMP, DETAIL 9, SHEET 19.
- T05 TYPE D CURB RAMP, DETAIL 9, SHEET 18.
- T06 STRIPED PEDESTRIAN CROSSWALK. SEE DETAIL 1, SHEET 18.
- T07 STRIPED "NO PARKING" AREA. COLOR WHITE IS SUBSTITUTED FOR BLUE STRIPES PER SHEET NOTE T01.
- T08 RAISED CURB WITH 45° CHAMFERED END TREATMENT. PER DETAIL 3, SHEET 18.

LEGEND

- LIMIT OF WORK
- PROPERTY LINE
- LOT LINE
- SAWCUT AND JOIN
- FIRE LANE STRIPING

NOTES:

1. FENCES/GATES LOCATED ALONG OR ON THE FIRE ACCESS SHALL BE SIGNED PER ATTACHMENT 16 OF THE OCEANSIDE FIRE DEPARTMENT FIRE MASTER PLAN.
2. PAVEMENT MARKINGS SHALL FOLLOW CALTRANS STANDARD PLAN RSP A24E.

43 PATIENT/VISITORS STALLS REQUIRED FOR BUILDING
25 GENERAL
10 EV STALLS REQUIRED (5 W/ CHARGERS)
1 EA "SIGNED ADA EV STALL (1 CHARGER)
2 POOL STALLS
5 ADA STALLS PROVIDED
1 AMBULANCE PARKING
8 STAFF STALLS
134 PRECONSTRUCTION STALLS

N

0 10' 20'

SCALE: 1"=20'

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DESCRIPTION:	APPROVED BY:	DATE:

PRIVATE CONTRACT

SHEET 13	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	21 SHEETS

PRIORITY DEVELOPMENT PROJECT TRAFFIC SIGNAGE AND STRIPING SHEET FOR:

TRI-CITY MEDICAL CENTER
PSYCHIATRIC HEALTH FACILITY

CALIFORNIA COORDINATE INDEX 380-1700

APPROVED FOR WILLIAM P. MORGAN
COUNTY ENGINEER

ENGINEER OF WORK
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STATE OF CALIFORNIA

Drawing Title:

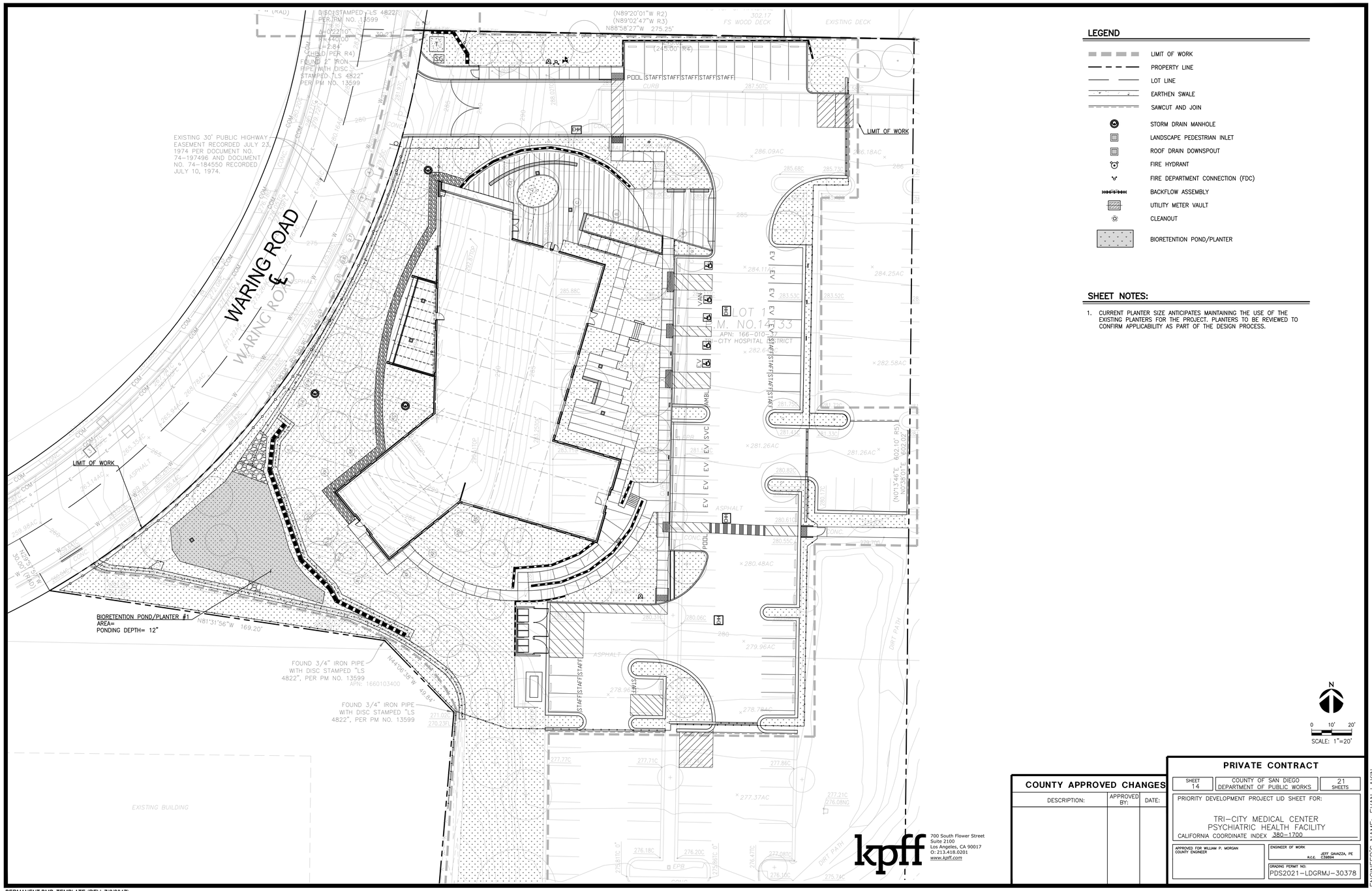
TRAFFIC SIGNAGE AND STRIPING PLAN

Issue Date: 12/15/2021

Project No.: 006240.00 Checked by: AL/ EL

C1013

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LEGEND

- LIMIT OF WORK
- PROPERTY LINE
- LOT LINE
- EARTHEN SWALE
- SAWCUT AND JOIN
- STORM DRAIN MANHOLE
- LANDSCAPE PEDESTRIAN INLET
- ROOF DRAIN DOWNSPOUT
- FIRE HYDRANT
- FIRE DEPARTMENT CONNECTION (FDC)
- BACKFLOW ASSEMBLY
- UTILITY METER VAULT
- CLEANOUT
- BIORETENTION POND/PLANTER

SHEET NOTES:

1. CURRENT PLANTER SIZE ANTICIPATES MAINTAINING THE USE OF THE EXISTING PLANTERS FOR THE PROJECT. PLANTERS TO BE REVIEWED TO CONFIRM APPLICABILITY AS PART OF THE DESIGN PROCESS.

PERMANENT BMP_TEMPLATE (REV. 7/6/2017)

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COUNTY APPROVED CHANGES

DESCRIPTION:	APPROVED BY:	DATE:

PRIVATE CONTRACT

SHEET 14	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	21 SHEETS

PRIORITY DEVELOPMENT PROJECT LID SHEET FOR:

TRI-CITY MEDICAL CENTER
PSYCHIATRIC HEALTH FACILITY
CALIFORNIA COORDINATE INDEX 380-1700

APPROVED FOR WILLIAM P. MORGAN
COUNTY ENGINEER

ENGINEER OF WORK
JEFF GRAZZA, PE
R.C.E. 53894

GRADING PERMIT NO:
PDS2021-LDGRMJ-30378

ENGINEER'S NAME: EVAN LAKIN
PHONE NO. (213)266-5266 // EMAIL: EVAN.LAKIN@KPFF.COM

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P:\2019\190773 Tri-City Med Center Behavioral Health Facility\5 CAD\Sheets_Onsite\190773-C101-LID-DD.dwg, Jan 20, 2022 - 1:46pm

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Rev.	Description	Date
	ISSUE FOR PLAN REVIEW	21 JAN 2022
	BACKCHECK	
	ISSUE FOR PLAN REVIEW	27 OCT 2021
	ISSUE FOR PLANNING	15 DEC 2020
	ISSUE FOR GRADING PERMIT	03 DEC 2020

AGENCY APPROVAL

ARCHITECT SEAL

CONSULTANT SEAL

REGISTERED PROFESSIONAL ENGINEER
JEFFREY B. GRAZZA
No. 53894
Exp. 12/31/23
CIVIL
STATE OF CALIFORNIA

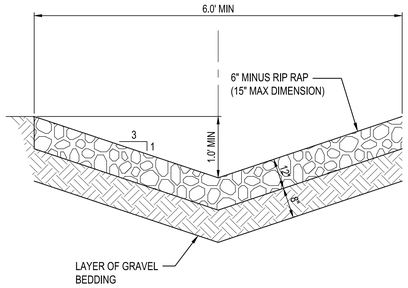
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LID PLAN

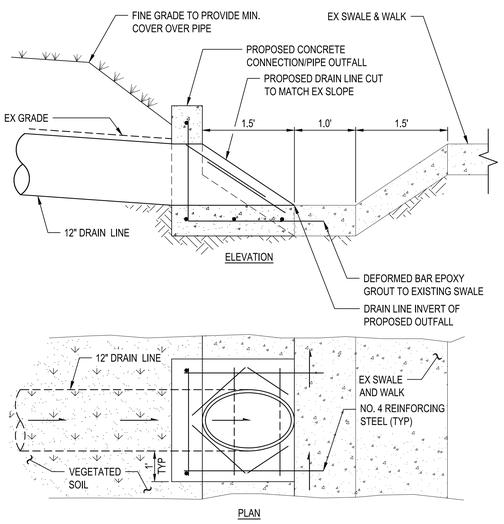
Issue Date: 12/15/2021
Project No.: 006240.00 Checked by: AL/ EL

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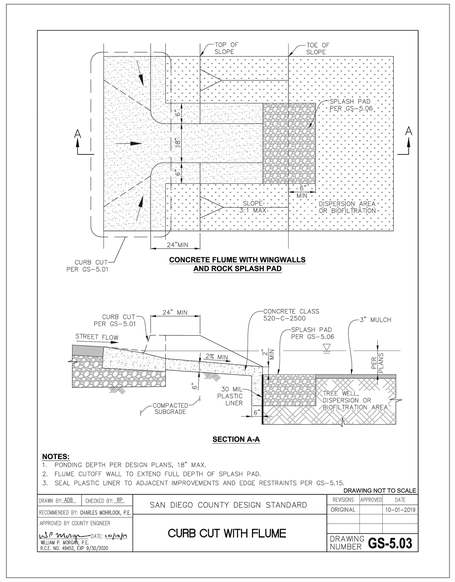
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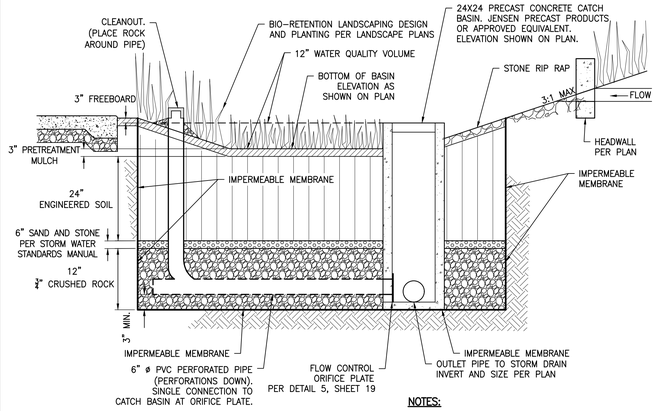
8 RIP-RAP SWALE/ OVERFLOW CHANNEL
N.T.S.



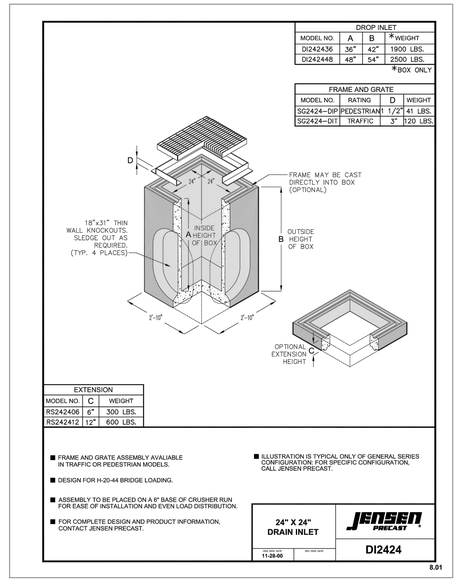
7 PIPE SWALE CONNECTION
N.T.S.



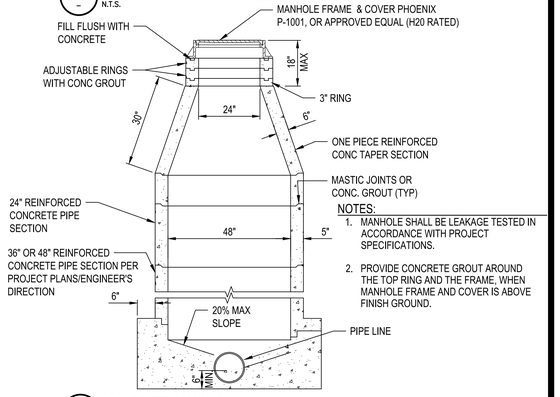
6 CURB CUT WITH FLUME
N.T.S.



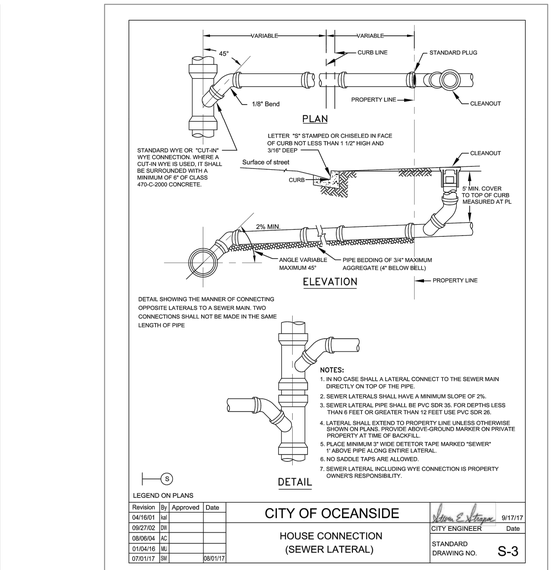
4 BIORETENTION POND/PLANTER
N.T.S.



2 DRAINAGE INLET
N.T.S.



1 CONCRETE MANHOLE
N.T.S.

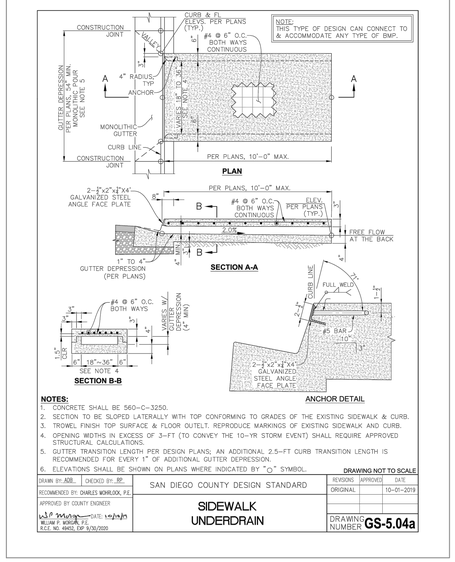


LEGEND ON PLANS

Revision	By	Approved	Date
04/16/01	NI		
09/27/02	DII		
08/06/04	AC		
01/04/16	NL		
07/01/17	DII	DB/01/17	

CITY OF OCEANSIDE
HOUSE CONNECTION
(SEWER LATERAL)
CITY ENGINEER 9/17/17 Date
STANDARD DRAWING NO. S-3

3 CLEANOUT
N.T.S.



5 SIDEWALK UNDERDRAIN
N.T.S.

PERMANENT BMP_TEMPLATE (REV. 7/6/2017)

COUNTY APPROVED CHANGES

DESCRIPTION:	APPROVED BY:	DATE:

PRIVATE CONTRACT

SHEET 15	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	21 SHEETS

PRIORITY DEVELOPMENT PROJECT DETAILS SHEET FOR:

TRI-CITY MEDICAL CENTER
PSYCHIATRIC HEALTH FACILITY
CALIFORNIA COORDINATE INDEX 380-1700

APPROVED FOR WILLIAM P. MORGAN
COUNTY ENGINEER

ENGINEER OF WORK
JEFF GAVAZZA, PE
R.C.E. C39894

GRADING PERMIT NO:
PDS2021-LDGRMJ-30378

ENGINEER'S NAME: EVAN LAKIN
PHONE NO. (213)266-5266 // EMAIL: EVAN.LAKIN@KPFF.COM

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ARCHITECT SEAL

CONSULTANT SEAL
REGISTERED PROFESSIONAL ENGINEER
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No. 39894
Exp. 12/31/23
CIVIL
STATE OF CALIFORNIA

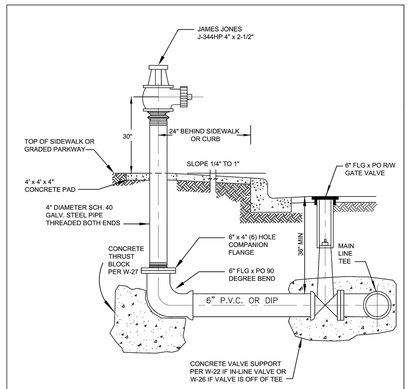
Drawing Title:

DETAILS

Issue Date: 12/15/2021
Project No.: 006240.00 Checked by: AL/ EL

C1015

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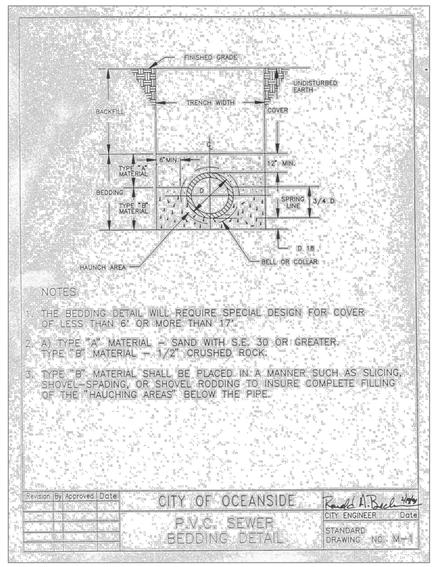
NOTES:

1. FINISH WITH APPROVED FIRE HYDRANT MARINE YELLOW 1000 PAINT, MANUFACTURED BY PROLINE.
2. ALL BURIED NUTS AND BOLTS TO BE TYPE 316 STAINLESS STEEL.
3. PLACE DETECTOR TAPE MARKED "WATER" 1 FOOT ABOVE PIPE ALONG ENTIRE RUN.
4. ALL DUCTILE IRON PIPE, FITTINGS, AND GALVANIZED RISER SHALL BE ENCASED WITH 2 LAYERS OF 8 MIL POLYETHYLENE.
5. ENCASE ALL FERROUS METALS IN 6" OF SE 30 SAND AFTER WRAPPING.
6. PROVIDE TRACER WIRE PER OSD W-1 FOR PVC PIPE WHERE SERVICE IS NOT PERPENDICULAR TO MAIN.

LEGEND ON PLANS

Revision	By	Approved	Date		
10/16/02	DII			CITY OF OCEANSIDE	Kevin E. Morgan 9/17/17
08/04/04	AC				CITY ENGINEER Date
06/04/07	AC			STANDARD BLOW-OFF	STANDARD DRAWING NO. W-2
05/01/17	IM				
07/01/17	SM		08/01/17		

7 – FIRE DEPARTMENT CONNECTION
N.T.S.

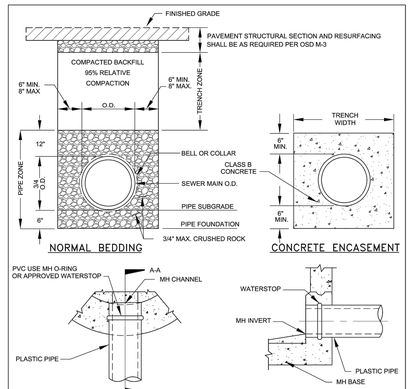


NOTES:

1. THE BEDDING DETAIL WILL REQUIRE SPECIAL DESIGN FOR COVER OF LESS THAN 6' OR MORE THAN 17'.
2. A) TYPE "A" MATERIAL – SAND WITH S.E. 30 OR GREATER. TYPE "B" MATERIAL – 1/2" CRUSHED ROCK.
3. TYPE "B" MATERIAL SHALL BE PLACED IN A MANNER SUCH AS SLICING, SHOVEL-SPADING, OR SHOVEL RODDING TO INSURE COMPLETE FILLING OF THE "HAUCHING AREAS" BELOW THE PIPE.

Revision	By	Approved	Date		
				CITY OF OCEANSIDE	Ronald A. Beck 1/1/99
				P.V.C. SEWER BEDDING DETAIL	CITY ENGINEER Date
					STANDARD DRAWING NO. M-1

5 – PVC SEWER BEDDING
N.T.S.



MANHOLE CONNECTION DETAILS

NOTES:

1. SEE STD. DWGS. S-5, S-6 & S-7 FOR MANHOLE DETAILS.
2. NORMAL CRUSHED ROCK BEDDING SHALL BE USED FOR DEPTH OF COVER > 4' OR < 17' FOR PVC BEDDING FOR DEPTH OF COVER <4' OR >17' TO BE DETERMINED BY THE CITY.
3. CONCRETE ENCASEMENT SHALL BE USED WHERE THE TRENCH WIDTH AT THE UPPER LIMITS OF THE PIPE ZONE EXCEEDS THE MAXIMUM WIDTH SPECIFIED ABOVE.

Revision	By	Approved	Date		
04/12/01	lal			CITY OF OCEANSIDE	Kevin E. Morgan 9/17/17
10/18/02	DII				CITY ENGINEER Date
08/30/04	AC			PLASTIC SEWER PIPE TRENCH DETAILS	STANDARD DRAWING NO. S-2
01/04/16	lal				
07/01/17	SM		08/01/17		

3 – PLASTIC SEWER PIPE TRENCH
N.T.S.

NOTES:

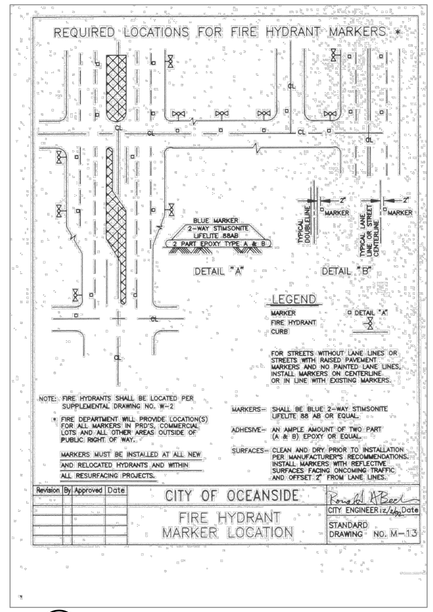
Case 1: New Sewer Being Installed

Zone	Requirements
A	Sewer Lines parallel to water mains shall not be permitted in this zone without approval from the Health Agency.
B	A sewer line parallel to water main shall be constructed of PVC with rubber ring joints.
C	A sewer line crossing a water main shall be constructed of: 1. Continuous section of SDR26, as an alternative Class 200 PVC per AWWA C900 or C905 can be used. 2. Any sewer main within a continuous sleeve
D	A sewer line crossing a water main shall be constructed the same as Zone C

Case 2: New Water Main Being Installed

Zone	Requirements
A	No water mains parallel to sewer shall be constructed without approval from the Health Agency.
B	If sewer paralleling the water main does not meet the Case 1, Zone B Requirements, then water main shall be constructed of: 1. DIP 2. PVC per AWWA C900 or C905
C	If the sewer crossing the water main does not meet Case 1, Zone C Requirements, the water main shall have no joints in Zone C and will be constructed of: 1. Same as Case 2, Zone B above
D	If the sewer crossing the water main does not meet the requirements for Zone C, Case 1, the water main shall have no joints within four (4) feet from either side of the sewer and shall be constructed of: 1. Same as Case 2, Zone B above

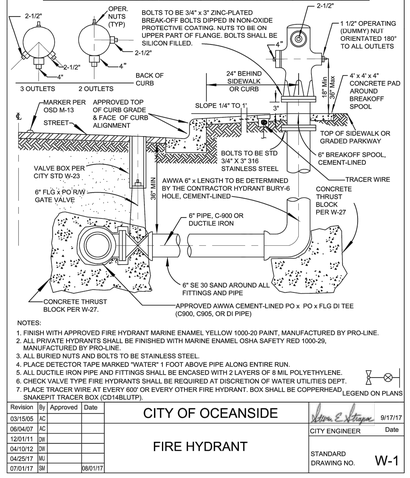
Revision	By	Approved	Date		
09/26/02	DII			CITY OF OCEANSIDE	Kevin E. Morgan 9/17/17
08/31/04	AC				CITY ENGINEER Date
09/22/10	IM			DESIGN CRITERIA FOR SEPARATION OF WATER AND SEWER MAINS	STANDARD DRAWING NO. S-1b
01/04/16	lal				
07/01/17	SM		08/01/17		



Revision	By	Approved	Date		
				CITY OF OCEANSIDE	Ronald A. Beck 12/1/99
				FIRE HYDRANT MARKER LOCATION	CITY ENGINEER Date
					STANDARD DRAWING NO. M-13

6 – FIRE HYDRANT MARKER
N.T.S.

APPROVED FIRE HYDRANT MODELS			
TYPE	OUTLETS	JAMES JONES	AVK
SINGLE FAMILY	1-2 1/2", 1-4"	MODEL J - 4040	AVK - 2470
MULTI FAMILY	2-2 1/2", 1-4"	MODEL J - 4060	AVK - 2490
COMMERCIAL	2-2 1/2", 1-4"	MODEL J - 4060	AVK - 2490
INDUSTRIAL	2-2 1/2", 1-4"	MODEL J - 4060	AVK - 2490



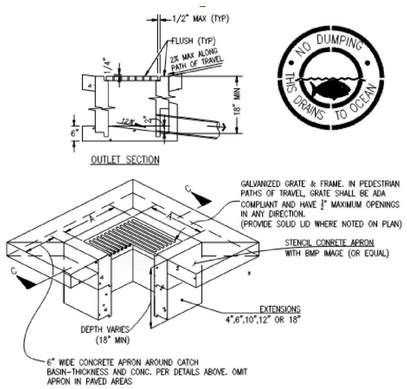
NOTES:

1. FINISH WITH APPROVED FIRE HYDRANT MARINE ENAMEL YELLOW 1000-20 PAINT, MANUFACTURED BY PRO-LINE. MANUFACTURED BY PRO-LINE.
2. ALL PRIVATE HYDRANTS SHALL BE FINISHED WITH MARINE ENAMEL OSHA SAFETY RED 1000-29,
3. ALL BURIED NUTS AND BOLTS TO BE STAINLESS STEEL.
4. PLACE DETECTOR TAPE MARKED "WATER" 1 FOOT ABOVE PIPE ALONG ENTIRE RUN.
5. ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE ENCASED WITH 2 LAYERS OF 8 MIL POLYETHYLENE.
6. CHECK VALVE TYPE FIRE HYDRANTS SHALL BE REQUIRED AT DISCRETION OF WATER UTILITIES DEPT.
7. PLACE TRACER WIRE AT EVERY 600' OR EVERY OTHER FIRE HYDRANT. BOX SHALL BE COPPERHEAD SNAKEPIT TRACER BOX (CD148LUTP).

LEGEND ON PLANS

Revision	By	Approved	Date		
03/15/05	AC			CITY OF OCEANSIDE	Kevin E. Morgan 9/17/17
06/04/07	AC				CITY ENGINEER Date
12/01/11	DII			FIRE HYDRANT	STANDARD DRAWING NO. W-1
04/10/12	SM				
04/25/17	MJ				
07/01/17	SM		08/01/17		

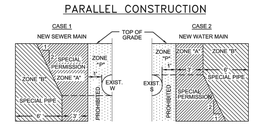
4 – FIRE HYDRANT
N.T.S.



2 – PRE–CAST CATCH BASIN
N.T.S.

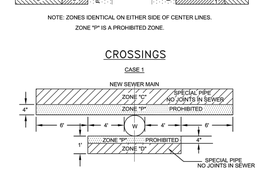
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PARALLEL CONSTRUCTION



NOTE: ZONES IDENTICAL ON EITHER SIDE OF CENTER LINES.
ZONE "P" IS A PROHIBITED ZONE.

CROSSINGS



NOT TO SCALE

Revision	By	Approved	Date		
04/12/01	lal			CITY OF OCEANSIDE	Kevin E. Morgan 9/17/17
09/26/02	DII				CITY ENGINEER Date
01/04/16	IM			DESIGN CRITERIA FOR SEPARATION OF WATER AND SEWER MAINS	STANDARD DRAWING NO. S-1a
07/01/17	SM		08/01/17		

1 – SANITARY SEWER
N.T.S.

COUNTY APPROVED CHANGES		
DESCRIPTION:	APPROVED BY:	DATE:

PRIVATE CONTRACT

SHEET 16	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	21 SHEETS

PRIORITY DEVELOPMENT PROJECT DETAILS SHEET FOR:

TRI–CITY MEDICAL CENTER
PSYCHIATRIC HEALTH FACILITY
CALIFORNIA COORDINATE INDEX 380–1700

APPROVED FOR WILLIAM P. MORGAN COUNTY ENGINEER

ENGINEER OF WORK: JEFF GRAZZA, PE R.C.E. C39894

GRADING PERMIT NO: PDS2021–LDGRMJ–30378

PERMANENT BMP_TEMPLATE (REV. 7/6/2017)

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ENGINEER'S NAME: EVAN LAKIN
PHONE NO. (213)266-5266 // EMAIL: EVAN.LAKIN@KPFF.COM

Tri-City Medical Center

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Psychiatric Health Facility

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ISSUE FOR PLAN REVIEW	21 JAN 2022
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ARCHITECT SEAL

CONSULTANT SEAL

REGISTERED PROFESSIONAL ENGINEER JEFFREY B. GRAZZA No. 59894 Exp. 12/31/23 CIVIL STATE OF CALIFORNIA

Drawing Title:

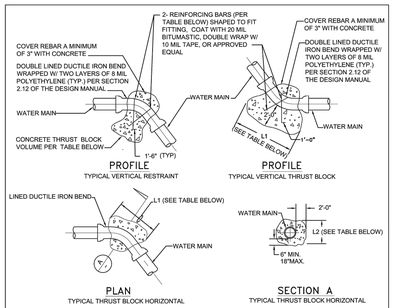
DETAILS

Issue Date: 12/15/2021

Project No.: 006240.00 Checked by: AL/ EL

C1016

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NOTES:
1. BEARING SURFACE OF ALL THRUST BLOCKS TO BE POURED AGAINST FIRM UNDISTURBED EARTH (FULL BEARING STRENGTH).
2. ALL CONCRETE TO BE 560-C-3250 (6-SACK CONCRETE MIX)
3. SPECIAL DESIGN REQUIRED FOR PRESSURES EXCEEDING 200 PSI, SOIL PRESSURES LESS THAN 2000 PSF, AND FOR FITTINGS LARGER THAN 12" DIAMETER.

THRUST BLOCK DIMENSIONS

PIPE SIZE	0 ° TO 11 1/4°				11 1/4° TO 22 1/2°				22 1/2° TO 45°				45° TO 90°				DEAD ENDS & TEES				PIPE SIZE
	HORIZ L1	L2	VOL. CY	REBAR	HORIZ L1	L2	VOL. CY	REBAR	HORIZ L1	L2	VOL. CY	REBAR	HORIZ L1	L2	VOL. CY	REBAR	HORIZ L1	L2	VOL. CY	REBAR	
6"	1.0 x 1.0	0.4		#6	1.0 x 1.5	0.8		#6	1.5 x 2.0	1.5		#6	2.0 x 3.0	2.7		#6	2.0 x 2.0	1.9		6"
8"	1.0 x 1.5	0.6		#6	1.5 x 2.0	1.3		#6	2.0 x 3.0	2.5		#6	3.0 x 3.5	4.7		#6	2.5 x 3.0	3.3		8"
10"	1.0 x 2.0	1.1		#6	2.0 x 2.0	2.1		#6	3.0 x 3.0	4.1		#6	4.0 x 4.0	7.6		#8	3.0 x 4.0	5.4		10"
12"	1.5 x 2.0	1.5		#6	2.0 x 2.0	3.0		#6	3.0 x 4.0	5.9		#6	4.5 x 5.0	10.8		#8	4.0 x 4.0	7.0		12"
14"	2.0 x 2.0	2.0		#6	3.0 x 3.0	4.0		#6	4.0 x 4.0	8.0		#8	5.0 x 5.5	14.7		#8	4.5 x 5.0	10.4		14"
16"	2.0 x 3.0	2.6		#6	3.0 x 3.5	5.2		#6	4.5 x 5.0	10.3		#8	7.0 x 5.5	19.0		#10	5.0 x 5.5	13.4		16"

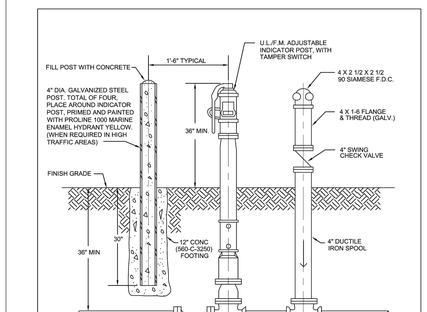
TABLE BASED ON 200 PSI PRESSURE AND 2000 PSF ALLOWABLE SOIL BEARING PRESSURE.

Revision	By	Approved	Date
07/19/04	AC		
03/15/05	AC		
04/14/05	DI		
06/04/07	AC		
01/04/16	WJ		
07/01/17	SM		08/01/17

CITY OF OCEANSIDE — TYPICAL THRUST BLOCK — STANDARD DRAWING NO. W-27

Helen E. Morgan 9/17/17 — CITY ENGINEER — Date

7 THRUST BLOCK CURB CUT WITH FLUME
N.T.S.



SYSTEM TO BE INSTALLED AS PER N.F.P.A. 24. FIRE DEPT. WILL WITNESS 200 LB HYDROSTATIC PRESSURE TEST FROM BASE OF RISER TO SWING CHECK VALVE PRIOR TO CITY MAIN CONNECTION.

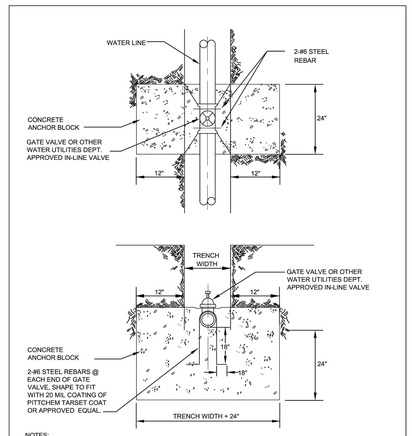
* REQUIRED WITH ON-SITE HYDRANT(S) ONLY

Revision	By	Approved	Date
06/11/01	DI		
09/18/02	DI		
08/29/04	AC		
09/22/10	DI		
01/04/16	WJ		
07/01/17	SM		08/01/17

CITY OF OCEANSIDE — STANDARD POST INDICATOR VALVE INSTALLATION WITH FIRE DEPARTMENT CONNECTION — STANDARD DRAWING NO. W-21

Helen E. Morgan 9/17/17 — CITY ENGINEER — Date

5 STANDARD POST INDICATOR VALVE
N.T.S.



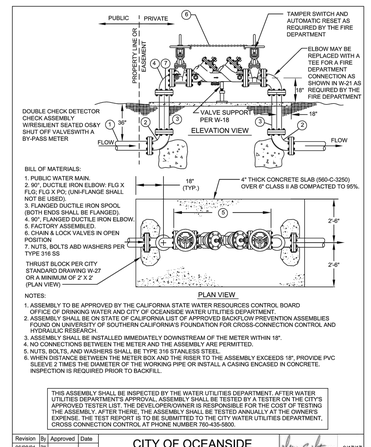
NOTES:
1. ALL NUTS & BOLTS TO BE TYPE 316 STAINLESS STEEL.
2. APPLY ANTI-SEIZE TO ALL S.S. BOLT THREADS.
3. ALL VALVES AND FITTINGS TO BE WRAPPED WITH 2 LAYERS OF 8 MIL POLYETHYLENE.
4. ALL FLANGE TO BE BE PRIMED AND WRAPPED WITH WAX-TAPE.
5. ALL CONCRETE TO BE 560-C-3250 (6- SACK CONCRETE MIX).

Revision	By	Approved	Date
11/08/00	sd		
09/18/02	DI		
08/29/04	AC		
01/04/16	WJ		
07/01/17	SM		08/01/17

CITY OF OCEANSIDE — LINE VALVE INSTALLATION — STANDARD DRAWING NO. W-22

Helen E. Morgan 9/17/17 — CITY ENGINEER — Date

3 LINE VALVE
N.T.S.



BILL OF MATERIALS:
1. PUBLIC WATER MAIN.
2. 90°, DUCTILE IRON ELBOW; FLG X FLG; FLG X PO; (UNI-FLANGE SHALL NOT BE USED).
3. FLANGED DUCTILE IRON SPOOL (BOTH ENDS SHALL BE FLANGED).
4. 90°, FLANGED DUCTILE IRON ELBOW.
5. FACTORY ASSEMBLED.
6. CHAIN & LOCK VALVES IN OPEN POSITION.
7. NUTS, BOLTS ABD WASHERS PER TYPE 316 SS
8. THRUST BLOCK PER CITY STANDARD DRAWING W-27 OR A MINIMUM OF 2' X 2' (PLAN VIEW)

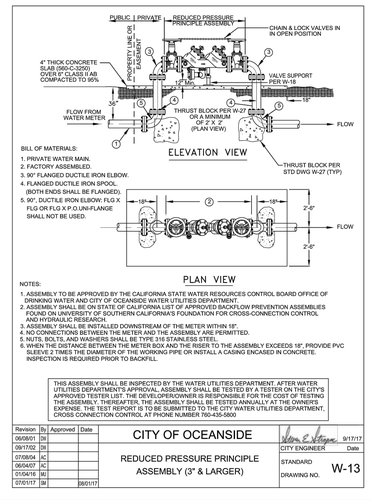
NOTES:
1. ASSEMBLY TO BE APPROVED BY THE CALIFORNIA STATE WATER RESOURCES CONTROL BOARD OFFICE OF DRINKING WATER AND CITY OF OCEANSIDE WATER UTILITIES DEPARTMENT.
2. ASSEMBLY SHALL BE ON STATE OF CALIFORNIA LIST OF APPROVED BACKFLOW PREVENTION ASSEMBLIES FOUND ON UNIVERSITY OF SOUTHERN CALIFORNIA'S FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH.
3. ASSEMBLY SHALL BE INSTALLED IMMEDIATELY DOWNSTREAM OF THE METER WITHIN 18".
4. NO CONNECTIONS BETWEEN THE METER AND THE ASSEMBLY ARE PERMITTED.
5. NUTS, BOLTS, AND WASHERS SHALL BE TYPE 316 STAINLESS STEEL.
6. WHEN DISTANCE BETWEEN THE METER BOX AND THE RISER TO THE ASSEMBLY EXCEEDS 18", PROVIDE PVC SLEEVE 2 TIMES THE DIAMETER OF THE WORKING PIPE OR INSTALL A CASING ENCASED IN CONCRETE. INSPECTION IS REQUIRED PRIOR TO BACKFILL.

THIS ASSEMBLY SHALL BE INSPECTED BY THE WATER UTILITIES DEPARTMENT, AFTER WATER UTILITIES DEPARTMENT'S APPROVAL. ASSEMBLY SHALL BE TESTED BY A TESTER ON THE CITY'S APPROVED TESTER LIST. THE DEVELOPER/OWNER IS RESPONSIBLE FOR THE COST OF TESTING THE ASSEMBLY. AFTER THERE, THE ASSEMBLY SHALL BE TESTED ANNUALLY AT THE OWNER'S EXPENSE. THE TEST REPORT IS TO BE SUBMITTED TO THE CITY WATER UTILITIES DEPARTMENT, CROSS CONNECTION CONTROL AT PHONE NUMBER 760-435-5800.

Revision	By	Approved	Date
06/08/01	DI		
09/17/02	DI		
07/08/04	AC		
06/04/07	AC		
01/04/16	WJ		
07/01/17	SM		08/01/17

CITY OF OCEANSIDE — DOUBLE CHECK - DETECTOR CHECK ASSEMBLY — STANDARD DRAWING NO. W-14

Helen E. Morgan 9/17/17 — CITY ENGINEER — Date



BILL OF MATERIALS:
1. PRIVATE WATER MAIN.
2. FACTORY ASSEMBLED.
3. 90° FLANGED DUCTILE IRON ELBOW.
4. FLANGED DUCTILE IRON SPOOL, (BOTH ENDS SHALL BE FLANGED).
5. 90°, DUCTILE IRON ELBOW; FLG X FLG OR FLG X P.O.UNI-FLANGE SHALL NOT BE USED.

NOTES:
1. ASSEMBLY TO BE APPROVED BY THE CALIFORNIA STATE WATER RESOURCES CONTROL BOARD OFFICE OF DRINKING WATER AND CITY OF OCEANSIDE WATER UTILITIES DEPARTMENT.
2. ASSEMBLY SHALL BE ON STATE OF CALIFORNIA LIST OF APPROVED BACKFLOW PREVENTION ASSEMBLIES FOUND ON UNIVERSITY OF SOUTHERN CALIFORNIA'S FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH.
3. ASSEMBLY SHALL BE INSTALLED IMMEDIATELY DOWNSTREAM OF THE METER WITHIN 18".
4. NO CONNECTIONS BETWEEN THE METER AND THE ASSEMBLY ARE PERMITTED.
5. NUTS, BOLTS, AND WASHERS SHALL BE TYPE 316 STAINLESS STEEL.
6. WHEN THE DISTANCE BETWEEN THE METER BOX AND THE RISER TO THE ASSEMBLY EXCEEDS 18", PROVIDE PVC SLEEVE 2 TIMES THE DIAMETER OF THE WORKING PIPE OR INSTALL A CASING ENCASED IN CONCRETE. INSPECTION IS REQUIRED PRIOR TO BACKFILL.

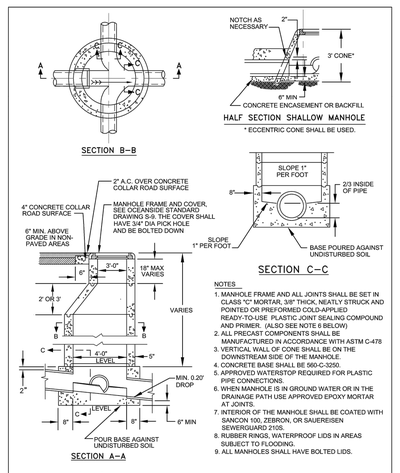
THIS ASSEMBLY SHALL BE INSPECTED BY THE WATER UTILITIES DEPARTMENT, AFTER WATER UTILITIES DEPARTMENT'S APPROVAL. ASSEMBLY SHALL BE TESTED BY A TESTER ON THE CITY'S APPROVED TESTER LIST. THE DEVELOPER/OWNER IS RESPONSIBLE FOR THE COST OF TESTING THE ASSEMBLY. THEREAFTER, THE ASSEMBLY SHALL BE TESTED ANNUALLY AT THE OWNER'S EXPENSE. THE TEST REPORT IS TO BE SUBMITTED TO THE CITY WATER UTILITIES DEPARTMENT, CROSS CONNECTION CONTROL AT PHONE NUMBER 760-435-5800

Revision	By	Approved	Date
06/08/01	DI		
09/17/02	DI		
07/08/04	AC		
06/04/07	AC		
01/04/16	WJ		
07/01/17	SM		08/01/17

CITY OF OCEANSIDE — REDUCED PRESSURE PRINCIPLE ASSEMBLY (3" & LARGER) — STANDARD DRAWING NO. W-13

Helen E. Morgan 9/17/17 — CITY ENGINEER — Date

1 DOMESTIC WATER BACKFLOW ASSEMBLY
N.T.S.



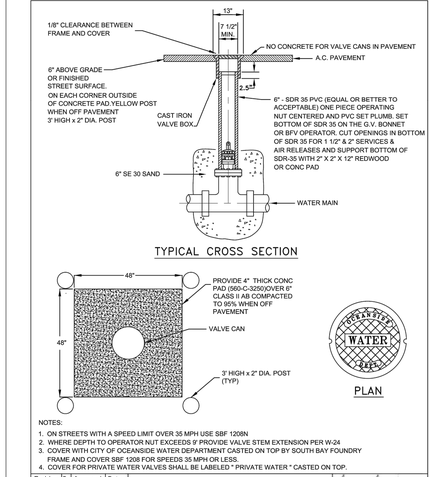
NOTES
1. MANHOLE FRAME AND ALL JOINTS SHALL BE SET IN CLASS "C" MORTAR, 3/8" THICK, NEATLY STRUCK AND POINTED OR PREFORMED COLD-APPLIED READY-TO-USE PLASTIC JOINT SEALING COMPOUND AND PRIMER. (ALSO SEE NOTE 6 BELOW)
2. ALL PRECAST COMPONENTS SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM C-478
3. VERTICAL WALL OF CONE SHALL BE ON THE DOWNSTREAM SIDE OF THE MANHOLE.
4. CONCRETE BASE SHALL BE 560-C-3250.
5. APPROVED WATERSTOP REQUIRED FOR PLASTIC PIPE CONNECTIONS.
6. WHEN MANHOLE IS IN GROUND WATER OR IN THE DRAINAGE PATH USE APPROVED EPOXY MORTAR AT JOINTS.
7. INTERIOR OF THE MANHOLE SHALL BE COATED WITH SANCON 100, ZEBRON, OR SAUEREISEN SEWERGUARD 2105.
8. RUBBER RINGS, WATERPROOF LIDS IN AREAS SUBJECT TO FLOODING.
9. ALL MANHOLES SHALL HAVE BOLTED LIDS.

Revision	By	Approved	Date
04/15/01	kd		
10/22/02	SM		
09/22/10	DI		
01/04/16	WJ		
07/01/17	SM		08/01/17

CITY OF OCEANSIDE — MANHOLE- 4' DIAMETER (FOR 21" MAX. DIA. PIPE) — STANDARD DRAWING NO. S-5

Helen E. Morgan 9/17/17 — CITY ENGINEER — Date

6 4' DIA. SS MANHOLE
N.T.S.



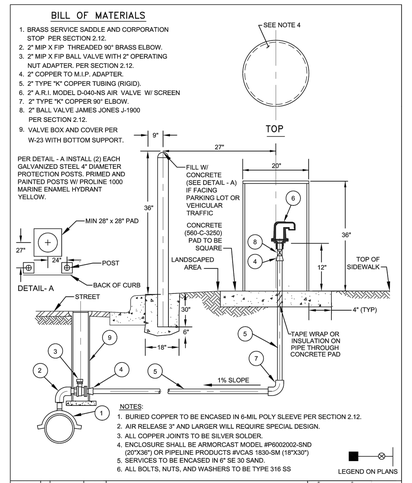
NOTES:
1. ON STREETS WITH A SPEED LIMIT OVER 35 MPH USE SBF 1208N
2. WHERE DEPTH TO OPERATOR NUT EXCEEDS 9' PROVIDE VALVE STEM EXTENSION PER W-24
3. COVER WITH CITY OF OCEANSIDE WATER DEPARTMENT CASTED ON TOP BY SOUTH BAY FOUNDRY FRAME AND COVER SBF 1208 FOR SPEEDS 35 MPH OR LESS.
4. COVER FOR PRIVATE WATER VALVES SHALL BE LABELED " PRIVATE WATER " CASTED ON TOP.

Revision	By	Approved	Date
10/22/02	DI		
06/04/07	AC		
03/05/08	DI		
09/22/10	DI		
05/01/17	WJ		
07/01/17	SM		08/01/17

CITY OF OCEANSIDE — VALVE BOX AND COVERS — STANDARD DRAWING NO. W-23

Helen E. Morgan 9/17/17 — CITY ENGINEER — Date

4 VALVE BOX
N.T.S.



NOTES:
1. BURIED COPPER TO BE ENCASED IN 6-MIL POLY SLEEVE PER SECTION 2.12.
2. AIR RELEASE 3" AND LARGER WILL REQUIRE SPECIAL DESIGN.
3. ALL COPPER JOINTS TO BE SILVER SOLDER.
4. ENCLOSURE SHALL BE ARMORCAST MODEL #P6002002-SND (20"X36") OR PIPELINE PRODUCTS #VCAS 1830-SM (18"X30")
5. SERVICES TO BE ENCASED IN 6" SE 30 SAND.
6. ALL BOLTS, NUTS, AND WASHERS TO BE TYPE 316 SS

Revision	By	Approved	Date
07/08/04	AC		
06/04/07	AC		
03/05/08	SM		
09/22/10	DI		
04/25/17	WJ		
07/01/17	SM		08/01/17

CITY OF OCEANSIDE — 2" AIR VALVES — STANDARD DRAWING NO. W-3

Helen E. Morgan 9/17/17 — CITY ENGINEER — Date

2 UTILITY AIR RELEASE VALVE
N.T.S.

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www.kpff.com

COUNTY APPROVED CHANGES

DESCRIPTION:	APPROVED BY:	DATE:

PRIVATE CONTRACT

SHEET 17	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	21 SHEETS

PRIORITY DEVELOPMENT PROJECT DETAILS SHEET FOR:

TRI-CITY MEDICAL CENTER
PSYCHIATRIC HEALTH FACILITY
CALIFORNIA COORDINATE INDEX 380-1700

APPROVED FOR WILLIAM P. MORGAN
COUNTY ENGINEER

ENGINEER OF WORK
JEFF GAVAZZA, PE
R.C.E. C39894

GRADING PERMIT NO:
PDS2021-LDGRMJ-30378

PERMANENT BMP_TEMPLATE (REV. 7/6/2017)

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P:\2019\1900773 Tri-City Med Center Behavioral Health Facility\5 CADSheets_Onsite\1900773-C1017DT-DD.dwg Jan 20, 2022 - 1:47pm

ENGINEER'S NAME: EVAN LAKIN
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www.kpff.com

Rev.	Description	Date
	ISSUE FOR PLAN REVIEW	21 JAN 2022
	BACKCHECK	
	ISSUE FOR PLAN REVIEW	27 OCT 2021
	ISSUE FOR PLANNING	15 DEC 2020
	ISSUE FOR GRADING PERMIT	03 DEC 2020
	AGENCY APPROVAL	

ARCHITECT SEAL

CONSULTANT SEAL
REGISTERED PROFESSIONAL ENGINEER JEFFREY B. GAVAZZA No. 39894 Exp. 12/31/23 CIVIL STATE OF CALIFORNIA

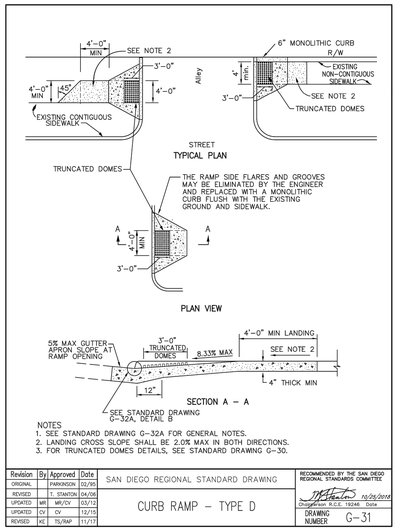
Drawing Title:

DETAILS

Issue Date: 12/15/2021
Project No.: 006240.00 Checked by: AL/ EL

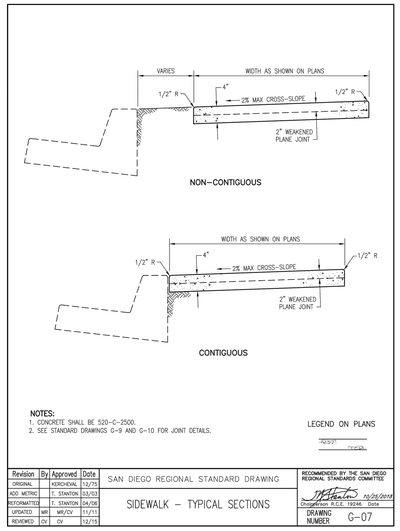
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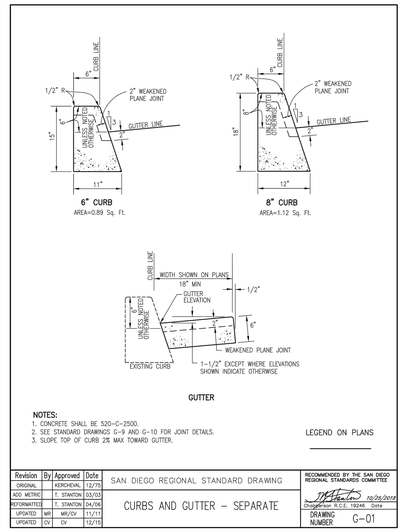
Revision	By	Approved	Date	SAN DIEGO REGIONAL STANDARD DRAWING	RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
ORIGINAL		PARKINSON	02/95		
REVISED		T. STANTON	04/06		
UPDATED	MR	MR/CV	03/12	CURB RAMP – TYPE D	Chris Gilbertson R.C.E. 19246 Date 10/26/2018
UPDATED	CV	CV	12/15		
REVISED	KE	TS/RAP	11/17		DRAWING NUMBER G-31

9 TYPE D – CURB RAMP
N.T.S.



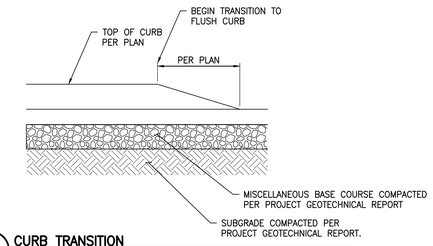
Revision	By	Approved	Date	SAN DIEGO REGIONAL STANDARD DRAWING	RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
ORIGINAL		KERCHEVAL	12/75		
ADD METRIC		T. STANTON	03/03		
REFORMATTED		T. STANTON	04/06	SIDEWALK – TYPICAL SECTIONS	Chris Gilbertson R.C.E. 19246 Date 10/26/2018
UPDATED	MR	MR/CV	11/11		
REVIEWED	CV	CV	12/15		DRAWING NUMBER G-07

7 SIDEWALK
N.T.S.



Revision	By	Approved	Date	SAN DIEGO REGIONAL STANDARD DRAWING	RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
ORIGINAL		KERCHEVAL	12/75		
ADD METRIC		T. STANTON	03/03		
REFORMATTED		T. STANTON	04/06	CURBS AND GUTTER – SEPARATE	Chris Gilbertson R.C.E. 19246 Date 10/26/2018
UPDATED	MR	MR/CV	11/11		
UPDATED	CV	CV	12/15		DRAWING NUMBER G-01

5 CURB AND GUTTER – SEPARATE
N.T.S.



3 CURB TRANSITION
N.T.S.

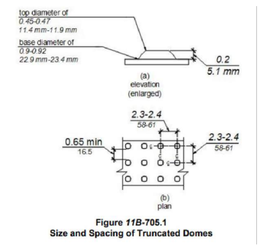
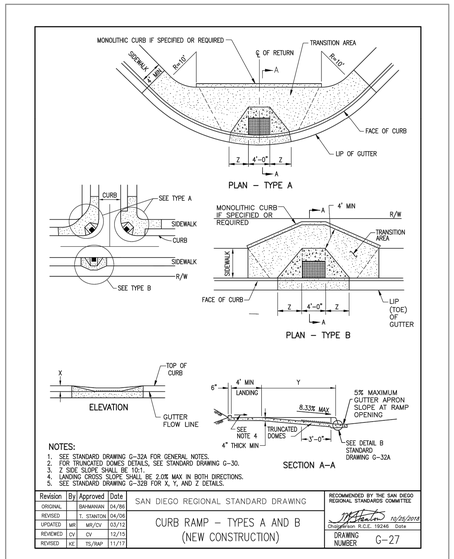


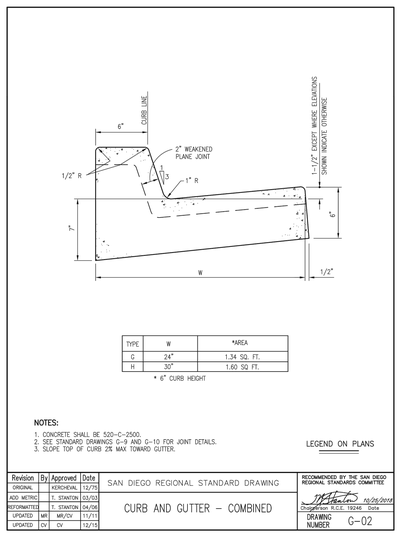
Figure 11B-705.1
Size and Spacing of Truncated Domes

2 TRUNCATED DOMES
N.T.S.



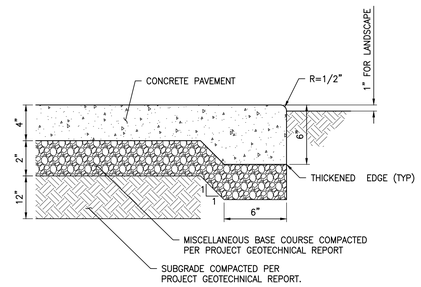
Revision	By	Approved	Date	SAN DIEGO REGIONAL STANDARD DRAWING	RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
ORIGINAL		BAHMANIAN	04/96		
REVISED		T. STANTON	04/06		
UPDATED	MR	MR/CV	03/12	CURB RAMP – TYPES A AND B (NEW CONSTRUCTION)	Chris Gilbertson R.C.E. 19246 Date 10/26/2018
REVIEWED	CV	CV	12/15		
REVISED	KE	TS/RAP	11/17		DRAWING NUMBER G-27

8 CURB RAMP – TYPES A AND B
N.T.S.



Revision	By	Approved	Date	SAN DIEGO REGIONAL STANDARD DRAWING	RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
ORIGINAL		KERCHEVAL	12/75		
ADD METRIC		T. STANTON	03/03		
REFORMATTED		T. STANTON	04/06	CURB AND GUTTER – COMBINED	Chris Gilbertson R.C.E. 19246 Date 10/26/2018
UPDATED	MR	MR/CV	11/11		
UPDATED	CV	CV	12/15		DRAWING NUMBER G-02

6 CURB AND GUTTER
N.T.S.

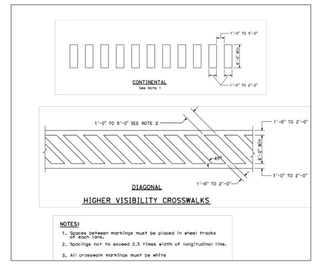


NOTES:

1. ALL TREAD SURFACES SHALL BE SLIP-RESISTANT.
2. REFER TO ARCHITECTURAL DRAWINGS FOR COLOR, PATTERN, TEXTURE, AND FINISH.
3. SEE PLAN AND DETAILS FOR LOCATION OF CONTROL JOINTS.

4 CONCRETE SIDEWALK
N.T.S

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Suite 2100
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O: 213.418.0201
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1 STRIPE PEDESTRIAN SIDEWALK
N.T.S.

COUNTY APPROVED CHANGES		
DESCRIPTION:	APPROVED BY:	DATE:

PRIVATE CONTRACT

SHEET 18	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	21 SHEETS

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CALIFORNIA COORDINATE INDEX 380-1700

APPROVED FOR WILLIAM P. MORGAN
COUNTY ENGINEER

ENGINEER OF WORK
JEFF GAVAZZA, PE
R.C.E. C39894

GRADING PERMIT NO:
PDS2021-LDGRMJ-30378

ENGINEER'S NAME: EVAN LAKIN
PHONE NO. (213)266-5266 // EMAIL: EVAN.LAKIN@KPFF.COM

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Tri-City Medical Center

Tri-City Medical Center
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Facility

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ARCHITECT SEAL

CONSULTANT SEAL

REGISTERED PROFESSIONAL ENGINEER
JEFFREY B. GAVAZZA
No. 59894
Exp. 6/31/23
CIVIL
STATE OF CALIFORNIA

Drawing Title:

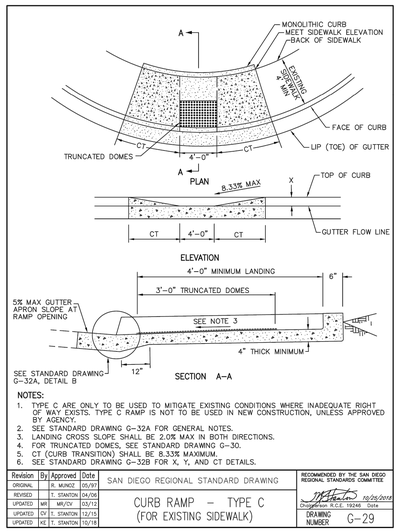
DETAILS

Issue Date: 12/15/2021

Project No.: 006240.00 Checked by: AL/ EL

C1018

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NOTES:
1. TYPE C ARE ONLY TO BE USED TO MITIGATE EXISTING CONDITIONS WHERE INADEQUATE RIGHT OF WAY EXISTS. TYPE C RAMP IS NOT TO BE USED IN NEW CONSTRUCTION, UNLESS APPROVED BY AGENCY.
2. SEE STANDARD DRAWING G-32A FOR GENERAL NOTES.
3. LANDING CROSS SLOPE SHALL BE 2.0% MAX IN BOTH DIRECTIONS.
4. FOR TRUNCATED DOMES, SEE STANDARD DRAWING G-30.
5. CT (CURB TRANSITION) SHALL BE 8.33% MAXIMUM.
6. SEE STANDARD DRAWING G-32B FOR X, Y, AND CT DETAILS.

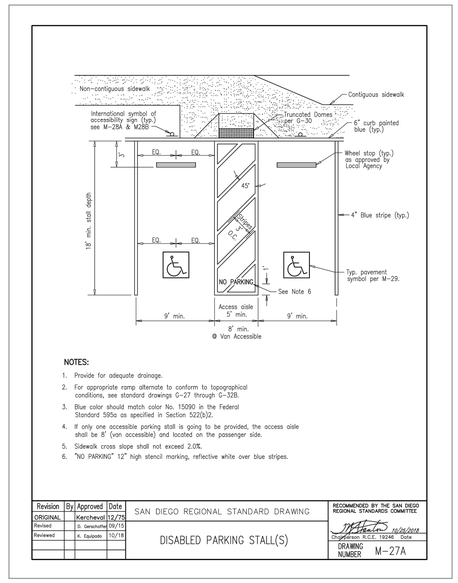
Revision	By	Approved	Date
ORIGINAL		R. MUNOZ	05/97
REVISED		T. STANTON	04/06
UPDATED	MR	MR/CV	03/13
UPDATED	CV	T. STANTON	12/15
UPDATED	KE	T. STANTON	10/18

SAN DIEGO REGIONAL STANDARD DRAWING

CURB RAMP – TYPE C (FOR EXISTING SIDEWALK)

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
Chairperson R.C.E. 19246 Date
DRAWING NUMBER G-29

9 TYPE C – CURB RAMP
N.T.S.



NOTES:
1. Provide for adequate drainage.
2. For appropriate ramp alternate to conform to topographical conditions, see standard drawings G-27 through G-32B.
3. Blue color should match color No. 15090 in the Federal Standard 595a as specified in Section 522(b)2.
4. If only one accessible parking stall is going to be provided, the access aisle shall be 8' (van accessible) and located on the passenger side.
5. Sidewalk cross slope shall not exceed 2.0%.
6. "NO PARKING" 12" high stencil marking, reflective white over blue stripes.

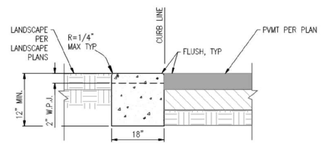
Revision	By	Approved	Date
ORIGINAL		Kercheval	12/78
Revised		b. Genuchal	09/15
Reviewed		K. Esplaeb	10/18

SAN DIEGO REGIONAL STANDARD DRAWING

DISABLED PARKING STALL(S)

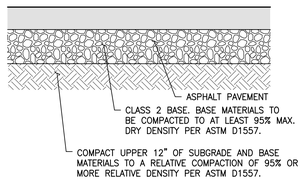
RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
Chairperson R.C.E. 19246 Date
DRAWING NUMBER M-27A

7 ADA PARKING SDR
N.T.S.



NOTES:
1. CONCRETE SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 4,000 psi.
2. CONSTRUCT WEAKENED PLANE JOINTS, EXPANSION JOINTS AND CONTROL JOINTS PER DETAIL SDRSD G-10

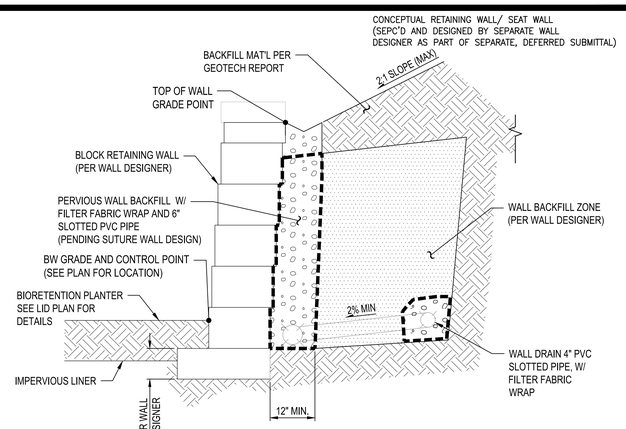
5 0" CONCRETE CURB (PVT)
N.T.S.



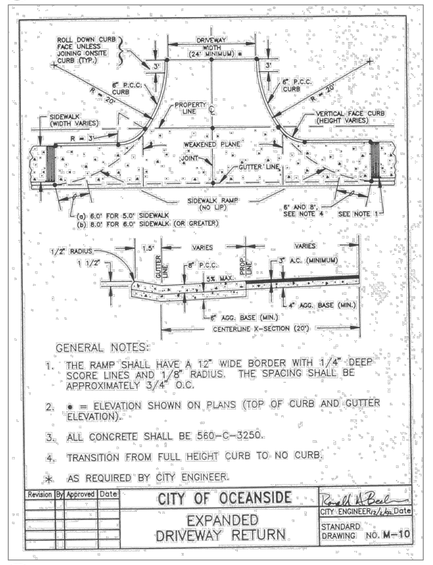
	ASPHALT CONC. (IN)	BASE COURSE (IN)
DRIVE AISLES	4"	12"
PARKING AREA	3	10

NOTE:
1. THIS AC PAVEMENT SECTION IS DESIGNED USING AN ASSUMED R-VALUE OF 5+ AND TRAFFIC INDEX OF 6 AND 5, RESPECTIVELY. CONTRACTOR SHALL PERFORM R-VALUE TEST ON BULK SAMPLES OF THE SOILS THAT ARE EXPOSED AT THE FINISH SUBGRADE ELEVATIONS ACROSS THE SITE ONCE GRADING OPERATIONS HAVE BEEN PERFORMED. R-VALUES THAT VARY FROM THE DESIGN VALUE MAY REQUIRED RE-DESIGN OF PAVEMENT SECTION. CONTRACTOR MAY MATCH EXISTING PAVEMENT SECTION IF APPROVED BY GEOTECHNICAL ENGINEER.

4 ASPHALT CONCRETE PAVEMENT
N.T.S



2 CONCEPTUAL DRAINAGE DETAIL FOR SEGMENTAL BLOCK WALL BACKFILL
N.T.S.



GENERAL NOTES:
1. THE RAMP SHALL HAVE A 12" WIDE BORDER WITH 1/4" DEEP SCORE LINES AND 1/8" RADIUS. THE SPACING SHALL BE APPROXIMATELY 3/4" O.C.
2. * = ELEVATION SHOWN ON PLANS (TOP OF CURB AND GUTTER ELEVATION).
3. ALL CONCRETE SHALL BE 560-C-3250.
4. TRANSITION FROM FULL HEIGHT CURB TO NO CURB.
5. AS REQUIRED BY CITY ENGINEER.

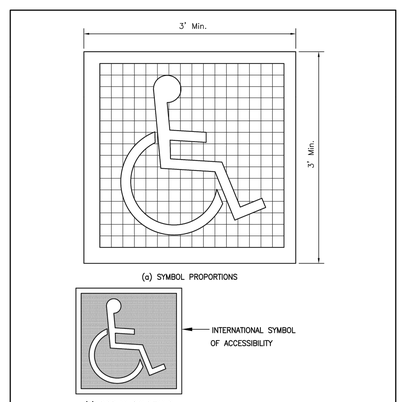
Revision	By	Approved	Date

CITY OF OCEANSIDE

EXPANDED DRIVEWAY RETURN

CITY ENGINEER R.C.E. 19246 Date
STANDARD DRAWING NO. M-10

1 CONCRETE DRIVEWAY
N.T.S.



NOTES
1. Pavement symbol shall be painted white on a blue background.
2. Blue color shall match color No. 15090 in the Federal Standard 595a as specified in Section 522(b)2.

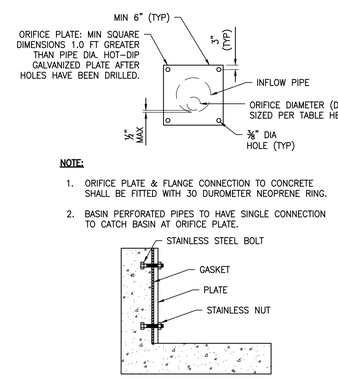
Revision	By	Approved	Date
Revised		S. Genchaffel	09/15
Reviewed		K. Esplaeb	10/18

SAN DIEGO REGIONAL STANDARD DRAWING

PAVEMENT SYMBOL– DISABLED PARKING

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
Chairperson R.C.E. 19246 Date
DRAWING NUMBER M-29

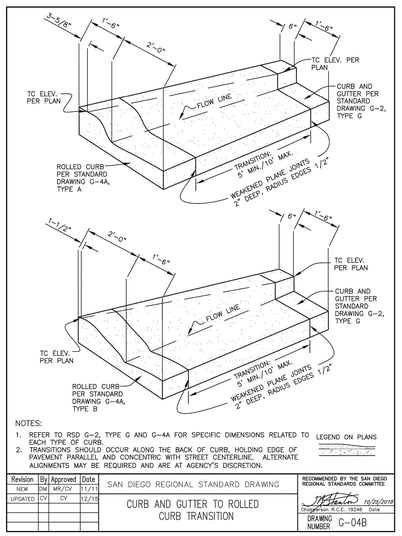
8 DISABLED PARKING SYMBOL
N.T.S.



NOTE:
1. ORIFICE PLATE & FLANGE CONNECTION TO CONCRETE SHALL BE FITTED WITH 30 DUROMETER NEOPRENE RING.
2. BASIN PERFORATED PIPES TO HAVE SINGLE CONNECTION TO CATCH BASIN AT ORIFICE PLATE.

BIOFILTRATION AREA	INFLOW PIPE DIA.	ORIFICE DIA.
SD-1	6"	1⅜"

6 FLOW CONTROL ORIFICE PLATE
N.T.S.



NOTES:
1. REFER TO RSD G-2, TYPE G AND G-4A FOR SPECIFIC DIMENSIONS RELATED TO EACH TYPE OF CURB.
2. TRANSITIONS SHOULD OCCUR ALONG THE BACK OF CURB, HOLDING EDGE OF PAVEMENT PARALLEL AND CONCENTRIC WITH STREET CENTERLINE. ALTERNATE ALIGNMENTS MAY BE REQUIRED AND ARE AT AGENCY'S DISCRETION.

LEGEND ON PLANS

Revision	By	Approved	Date
NEW	DM	MR/CV	11/11
UPDATED	CV	CV	12/15

SAN DIEGO REGIONAL STANDARD DRAWING

CURB AND GUTTER TO ROLLED CURB TRANSITION

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
Chairperson R.C.E. 19246 Date
DRAWING NUMBER G-04B

3 TYPE B ROLLED CURB
N.T.S.

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COUNTY APPROVED CHANGES

DESCRIPTION:	APPROVED BY:	DATE:

PRIVATE CONTRACT

SHEET 19	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	21 SHEETS

PRIORITY DEVELOPMENT PROJECT DETAILS SHEET FOR:

TRI-CITY MEDICAL CENTER
PSYCHIATRIC HEALTH FACILITY
CALIFORNIA COORDINATE INDEX 380-1700

APPROVED FOR WILLIAM P. MORGAN COUNTY ENGINEER

ENGINEER OF WORK JEFF GAVAZZA, PE R.C.E. C59894

GRADING PERMIT NO: PDS2021-LDGRMJ-30378

PERMANENT BMP_TEMPLATE (REV. 7/6/2017)

ENGINEER'S NAME: EVAN LAKIN
PHONE NO. (213)266-5266 // EMAIL: EVAN.LAKIN@KPFF.COM

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	ISSUE FOR PLAN REVIEW	27 OCT 2021
	ISSUE FOR PLANNING	15 DEC 2020
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	AGENCY APPROVAL	

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CONSULTANT SEAL

REGISTERED PROFESSIONAL ENGINEER JEFFREY B. GAVAZZA No. 59894 Exp. 12/31/23 CIVIL STATE OF CALIFORNIA

Drawing Title:

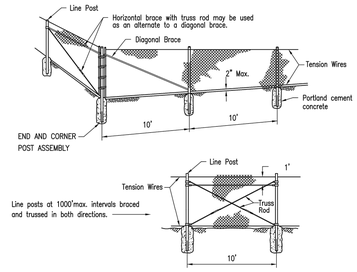
DETAILS

Issue Date: 12/15/2021

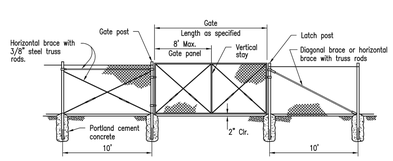
Project No.: 006240.00 Checked by: AL/ EL

C1019

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LINE POST BRACING



GATE ASSEMBLY

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Revised		D. Gerschoffer	09/15
Reviewed		D. Gerschoffer	10/18

SAN DIEGO REGIONAL STANDARD DRAWING

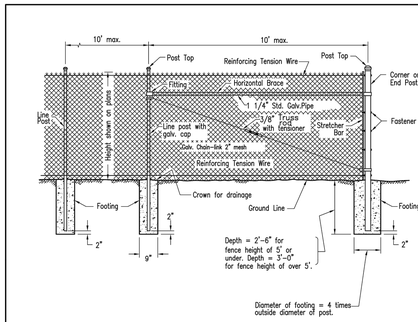
CHAIN LINK FENCE DETAILS

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

Christenson R.C.E. 19246 Date 10/25/2018

DRAWING NUMBER M-20

3 CHAIN LINK FENCE DETAILS
N.T.S.



NOTES
1. All footings shall be 520-C-2500 concrete.
2. The following items shall be furnished and installed shown on the plans and/or called for in the s
   a. Barbed Wire
   b. Extension Arm
   c. Top Horizontal Rail
3. Chain link fence shall conform to Standard Specifications for Pu unless specifically noted o
4. See Standard Drawing *

LEGEND ON PLANS

Revision	By	Ap
ORIGINAL		
Delete Metric		
Reviewed		
Revi		

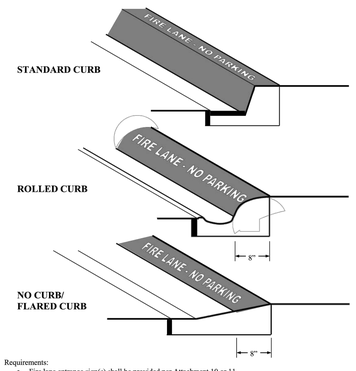
ED BY THE SAN DIEGO ANDARDS COMMITTEE

10/25/2018 Date

2 CHAIN LINK FENCE
N.T.S.

PERMANENT BMP_TEMPLATE (REV. 7/6/2017)

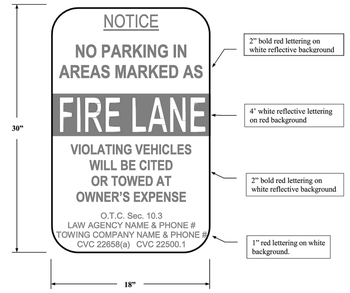
IX. **Attachment 9 – Fire Lane Curb Identification**



Requirements:
- Fire lane entrance sign(s) shall be provided per Attachment 10 or 11.
- Curbs shall be painted O.S.H.A. Safety Red.
- "FIRE LANE – NO PARKING" shall be painted on top of curb in 3" lettering at a spacing of 30' on center or portion thereof.

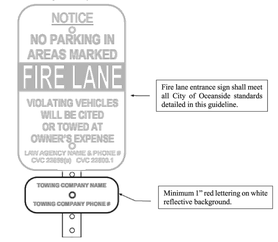
X. **Attachment 10 – Fire Lane Entrance Signs**

To be used only at vehicle entry points to areas that contain "Fire Lane – No Parking" signs or red curbs.



- All sign and lettering dimensions shown are minimum required.
- This sign shall be posted at all vehicle entrances to areas marked with either red curbs or fire lane "No Parking" signs.
- Signs shall be securely mounted facing the direction of travel and clearly visible to oncoming traffic entering the designated area. Signs shall be made of durable material and installed per Attachment 13.
- Towing company contact information is required for all properties with a standing written agreement for services with a towing company, per the California Vehicle Code.

XI. **Attachment 11 – Specifications for Alternate Location of Towing Company Information**



- Towing company contact information is required for all properties with a standing written agreement for services with a towing company, per the California Vehicle Code.
- To facilitate periodic changes in towing company contracts, the towing company contact information may be posted on a separate sign mounted directly below the fire lane entrance sign instead of on the entrance sign itself. The method of attachment to the post shall not obscure the wording on either sign.

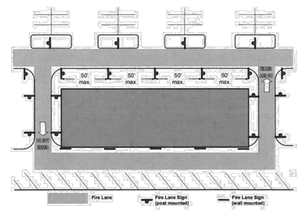
XII. **Attachment 12 – Specifications for Fire Lane No Parking Sign**



- All sign and lettering dimensions shown are minimums. "Arial Narrow" font is used in the example above though other legible sans-serif fonts may be acceptable.
- In areas where fire lane parking restrictions are enforced by the California Highway Patrol, "NO STOPPING – FIRE LANE" signs meeting Caltrans standards shall be used.
- Signs shall be securely mounted facing the direction of travel and clearly visible to oncoming traffic entering the designated area. Signs shall be made of durable material and installed per Attachments 13 and 14.

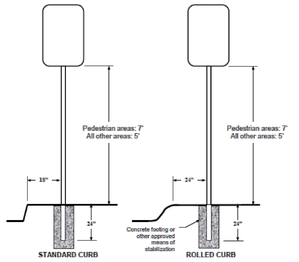
1 FIRE SIGNAGE AND STRIPING
N.T.S.

XIII. **Attachment 13 – Fire Lane No Parking Sign Locations**



- Signs are required within 3' of the end of each designated fire lane and spaced a maximum of 50' along the entire designated lane. One sign is required for each island adjacent to the fire lane.
- Signs shall be securely mounted facing the direction of travel and clearly visible to oncoming traffic entering the designated area. Signs shall be made of durable material and installed per Attachment 14. Where sign posts are not practical, signs may be mounted on a wall or fence. OFD inspectors will determine if additional signs or sign locations are required.

XIV. **Attachment 14 – Mounting Specifications for Fire Lane Entrance and No Parking Signs**



- Signs shall be mounted facing the direction of vehicular travel.
- Signs may be mounted on existing posts or buildings where the centerline of the sign is no more than 24" from the edge of the roadway.
- Depth of bury shall be a minimum of 24" and rebar, a concrete footing or another method to prevent removal of the sign is recommended. Footings for signs located in the public right-of-way shall be per City of Oceanside requirements.

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PRIORITY DEVELOPMENT PROJECT DETAILS SHEET FOR:

TRI-CITY MEDICAL CENTER
PSYCHIATRIC HEALTH FACILITY
CALIFORNIA COORDINATE INDEX 380-1700

APPROVED FOR WILLIAM P. MORGAN COUNTY ENGINEER

ENGINEER OF WORK: JEFF CAVAZZA, PE R.C.E. C76894

GRADING PERMIT NO: PDS2021-LDGRMJ-30378

ENGINEER'S NAME: EVAN LAKIN
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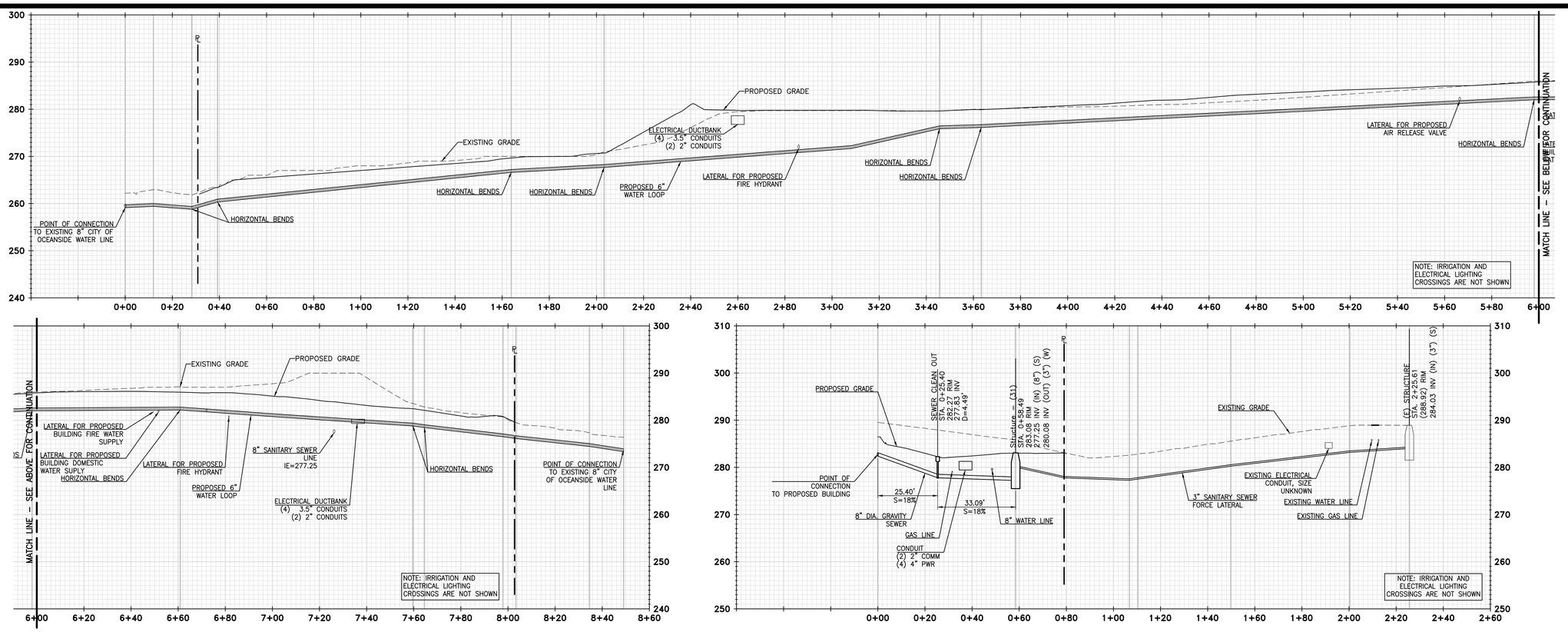
Drawing Title:

DETAILS

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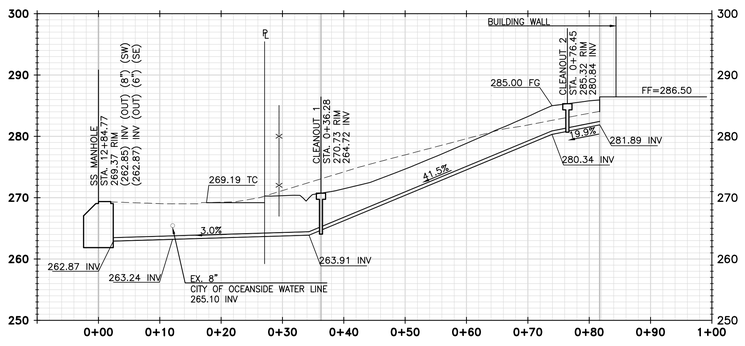
C1020

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ALIGNMENT ALONG 8 IN. WATR
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=10'

ALIGNMENT ALONG SS
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=10'



ALIGNMENT ALONG 6IN SEWER LATERAL
HORIZONTAL SCALE: 1"=10'
VERTICAL SCALE: 1"=10'

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21		21

PRIORITY DEVELOPMENT PROJECT PROFILES SHEET FOR:

TRI-CITY MEDICAL CENTER
PSYCHIATRIC HEALTH FACILITY

CALIFORNIA COORDINATE INDEX 380-1700

APPROVED FOR WILLIAM P. MORGAN COUNTY ENGINEER

ENGINEER OF WORK: JEFF. GAVIAZZA, PE R.C.E. C39894

GRADING PERMIT NO: PDS2021-LDGRMJ-30378

ENGINEER'S NAME: EVAN LAKIN
PHONE NO. (213)266-5266 /// EMAIL: EVAN.LAKIN@KPFF.COM

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Drawing Title:

PROFILES

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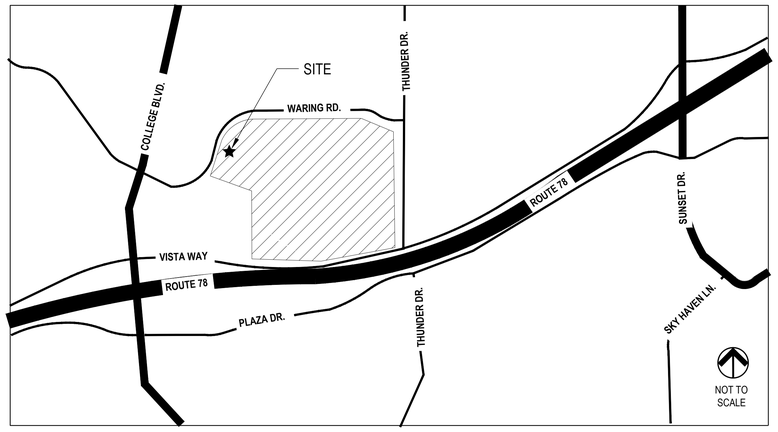
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TRI-CITY MEDICAL CENTER

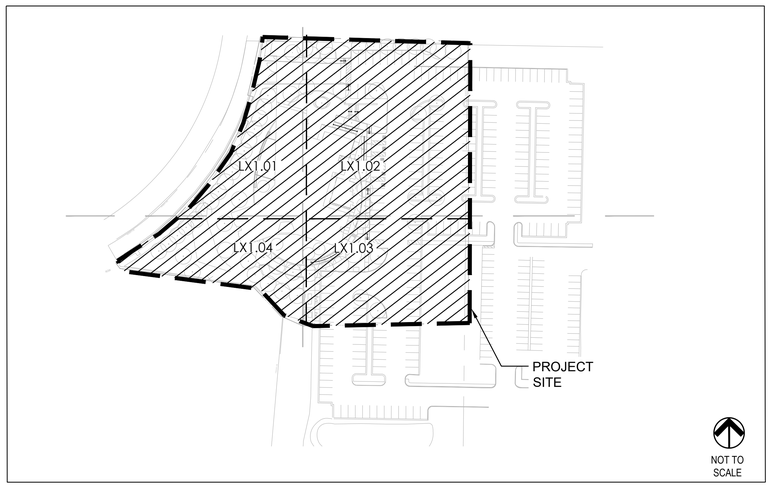
LANDSCAPE ARCHITECTURE PLANS

4002 VISTA WAY
OCEANSIDE, CALIFORNIA 92056

PLAN REVIEW BACKCHECK 01/21/2022



VICINITY MAP



SITE MAP

WATER CONSERVATION STATEMENT

THE LANDSCAPE IS DESIGNED, AND THE FINAL LANDSCAPE PLANS WILL REFLECT, CONFORMANCE WITH WATER CONSERVATION REQUIREMENTS. THE PLANTING DESIGN PROMOTES WATER CONSERVATION THROUGH THE "HYDROZONE" GROUPING OF SPECIES WITH SIMILAR IRRIGATION REQUIREMENTS, EXTENSIVE USE OF MODERATE AND LOW WATER REQUIRING SPECIES, AND NO USE OF COLOR OR TURF PLANTINGS.

FINAL PLANS WILL INCLUDE AN AUTOMATIC IRRIGATION SYSTEM FOR ALL LANDSCAPE. FOR THE OWNER'S ASSOCIATION MAINTAINED, PUBLIC AND PRIVATE AREAS.
WATER CONSERVATION DESIGN FEATURES TO BE INCORPORATED INTO THE LANDSCAPE AND IRRIGATION DESIGN INCLUDE:
- SOIL ANALYSIS AND PREPARATION SPECIFICATION
- APPROPRIATE PLANT SELECTION
- USE OF LANDSCAPE MULCHES
- USE EFFICIENT SYSTEM COMPONENTS
- USE OF WEATHER-BASED CONTROLLERS/ SENSORS
- SEPARATELY VALVED TREE WATERING SYSTEMS IN SELECTED LOCATIONS, AND ADDITIONAL MAINTENANCE SPECIFICATION.

ADDITIONAL FINAL IRRIGATION DESIGN CRITERIA:
- WATER BUDGET AND ESTIMATED WATER USE WILL BE DEMONSTRATED TO CONFORM TO CITY REQUIREMENTS.
- ONLY LOW VOLUME IRRIGATION WILL BE USED TO IRRIGATE ANY VEGETATION WITHIN 24 INCHES OF AN IMPERMEABLE SURFACE UNLESS THE ADJACENT IMPERMEABLE SURFACES ARE DESIGNED AND CONSTRUCTED TO CAUSE WATER TO DRAIN ENTIRELY INTO A LANDSCAPE AREA.

PROJECT NARRATIVE

THE PROPOSED SCOPE OF WORK IS FOR THE EXTERIOR UPGRADE IMPROVEMENTS ADJACENT TO THE NEW BUILDING. UPGRADE IMPROVEMENTS INCLUDE: PROPOSED TENANT AMENITY SPACES, PROPOSED LANDSCAPING AND IRRIGATION WITHIN THE AMENITY SPACE, AS WELL AS AREAS ADJACENT TO THE BUILDING FACADE.

GENERAL / CITY NOTES

1. ALL WORK SPECIFIED HEREIN SHALL BE PERFORMED PER APPLICABLE LAWS, ORDINANCE, AND REGULATIONS. THIS PROJECT SHALL COMPLY WITH THE 2016 CBC, MC, CPC AND CEC.
2. CONTRACTOR TO VERIFY WITH OWNER AND UTILITY COMPANIES THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION, TO DETERMINE IN THE FIELD THE ACTUAL LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL CALL UTILITY PROTECTION SERVICE 72 HOURS PRIOR TO CONSTRUCTION.
3. CONTRACTOR SHALL EXAMINE FINISH SURFACE, GRADES, TOPSOIL QUALITY AND DEPTH. DO NOT START ANY WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. VERIFY LIMITS OF WORK BEFORE STARTING.
4. CONTRACTOR TO REPORT ALL DAMAGES TO EXISTING CONDITIONS AND INCONSISTENCIES WITH PLANS TO LANDSCAPE ARCHITECT.
5. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE IN ALL LANDSCAPE BEDS AND ALL LAWN AREAS.
6. CONTRACTOR TO FINE GRADE AND ROCK-HOUND ALL TURF AREAS PRIOR TO SEEDING, TO PROVIDE A SMOOTH AND CONTINUAL SURFACE, FREE OF IRREGULARITIES, MATERIALS OR DEBRIS.
7. COORDINATE LANDSCAPE INSTALLATION WITH INSTALLATION OF UNDERGROUND IRRIGATION AND DRAINAGE SYSTEMS.
8. CONTRACTOR SHALL NOT REMOVE ANY TREES DURING CONSTRUCTION WITHOUT THE EXPRESS WRITTEN CONSENT OF THE LANDSCAPE ARCHITECT. EXISTING VEGETATION TO REMAIN SHALL BE PROTECTED AS DIRECTED BY THE LANDSCAPE ARCHITECT.
9. WHERE PROPOSED TREE LOCATIONS OCCUR UNDER EXISTING OVERHEAD UTILITIES OR CROWD EXISTING TREES, NOTIFY LANDSCAPE ARCHITECT TO ADJUST TREE LOCATIONS.
10. QUANTITIES SHOWN ARE INTENDED TO ASSIST CONTRACTOR IN EVALUATING THEIR OWN TAKE OFFS AND ARE NOT GUARANTEED AS ACCURATE REPRESENTATIONS OF REQUIRED MATERIALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR OWN BID QUANTITIES AS REQUIRED BY THE PLAN AND SPECIFICATIONS. IF THERE IS A DISCREPANCY BETWEEN THE NUMBER LABELED ON LEGENDS AND THE QUANTITY OF GRAPHIC SYMBOLS SHOWN, THE GRAPHIC SYMBOL QUANTITY SHALL GOVERN.
11. REMOVE EXISTING WEEDS FROM PROJECT SITE PRIOR TO THE ADDITION OF ORGANIC MATERIAL. APPLY AMENDMENTS AND FERTILIZERS PER THE RECOMMENDATIONS OF THE SOIL AGRONOMY REPORT FROM THE SITE.
12. THIS SET OF PLANS AND SPECIFICATIONS MUST BE KEPT ON THE JOB AT ALL TIMES AND IT IS UNLAWFUL TO MAKE ANY CHANGES OR ALTERATIONS ON THE SAME WITHOUT WRITTEN PERMISSION FROM THE CITY OF SAN DIEGO DEVELOPMENT DEPARTMENT. THE STAMPING OF THE PLAN AND SPECIFICATIONS SHALL NOT BE HELD TO PERMIT OR BE AN APPROVAL OF THE VIOLATION OF ANY PROVISIONS OF ANY CITY ORDINANCE OR STATE LAW.
13. 50% OF CONSTRUCTION WASTE IS TO BE RECYCLED.
14. A PRE-CONSTRUCTION MEETING IS REQUIRED PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH THE OWNER TO SCHEDULE.
15. A COPY OF ALL VARIANCES SHALL BE MADE PART OF THE APPROVED SET OF PLANS AND SHALL BE CROSS REFERENCED UNDER THE APPLICABLE CODES SECTION OF THE GENERAL NOTES SHEET.

APPLICABLE CODES

- 2016 CALIFORNIA BUILDING CODE
- 2016 TITLE 24
- 2016 ADA STANDARDS FOR ACCESSIBLE DESIGN
- CALIFORNIA PLUMBING CODE (CPC) 2016

DECLARATION OF RESPONSIBLE CHARGE

I AM FAMILIAR WITH AND AGREE TO COMPLY WITH THE REQUIREMENTS FOR LANDSCAPE IMPROVEMENT PLANS AS DESCRIBED IN CHAPTER 20.12 OF THE MUNICIPAL CODE. I HAVE PREPARED THIS PLAN IN COMPLIANCE WITH THOSE REGULATIONS. I CERTIFY THAT THE PLAN IMPLEMENTS THE REGULATIONS TO PROVIDE EFFICIENT LANDSCAPE WATER USE.

DATE: 1/21/2022

BRAD LENAHAN

GROUNDLEVEL LANDSCAPE ARCHITECTURE
2605 STATE STREET, SUITE B
SAN DIEGO, CA 92103
PH: (619) 325-1990

REGISTRATION NO: LA 4988 EXPIRATION DATE: 03/31/22

PROJECT DIRECTORY

LANDSCAPE ARCHITECT

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2605 STATE STREET, SUITE B
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(619)325-1990
(619) 325-1997
CONTACT: JASON JONES
JJONES@GROUNDLEVELSD.COM

CIVIL ENGINEER

KPFF
3131 CAMINO DEL RIO #1080
SAN DIEGO, CA, 92108
(619) 521-8500
CONTACT: EVAN LAKIN
EVAN.LAKIN@KPFF.COM

IRRIGATION CONSULTANT

SWEENEY & ASSOCIATES
321 RAMPART ST., SUITE 209
ORANGE, CA 92868
(714) 938-0456
CONTACT: COREY FOX
cfox@sweeneyassoc.com

SHEET INDEX

LANDSCAPE

LT1.00	LANDSCAPE TITLE SHEET
LC1.01 - LC1.04	LANDSCAPE CONSTRUCTION PLANS
LC2.00	LANDSCAPE CONSTRUCTION SCHEDULE & NOTES
LC3.01 - LC3.03	LANDSCAPE CONSTRUCTION DETAILS
LI1.01 - LI1.03	LANDSCAPE IRRIGATION PLANS
LI2.01	LANDSCAPE IRRIGATION LEGEND & NOTES
LI3.01	LANDSCAPE IRRIGATION DETAILS
LP1.01 - LP1.04	LANDSCAPE PLANTING PLANS
LP2.00	LANDSCAPE PLANTING LEGEND & NOTES
LP3.01	LANDSCAPE PLANTING DETAILS
LM1.01 - LM1.04	LANDSCAPE MULCH PLANS

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AGENCY APPROVAL

FACILITY #: 12372
OSHPD #: H211094-37-00

ARCHITECT SEAL

CONSULTANT SEAL

LICENSED LANDSCAPE ARCHITECT BRAD LENAHAN 4988 REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT STATE OF CALIFORNIA

Drawing Title:

LANDSCAPE
TITLE SHEET

Issue Date: 01/21/2022

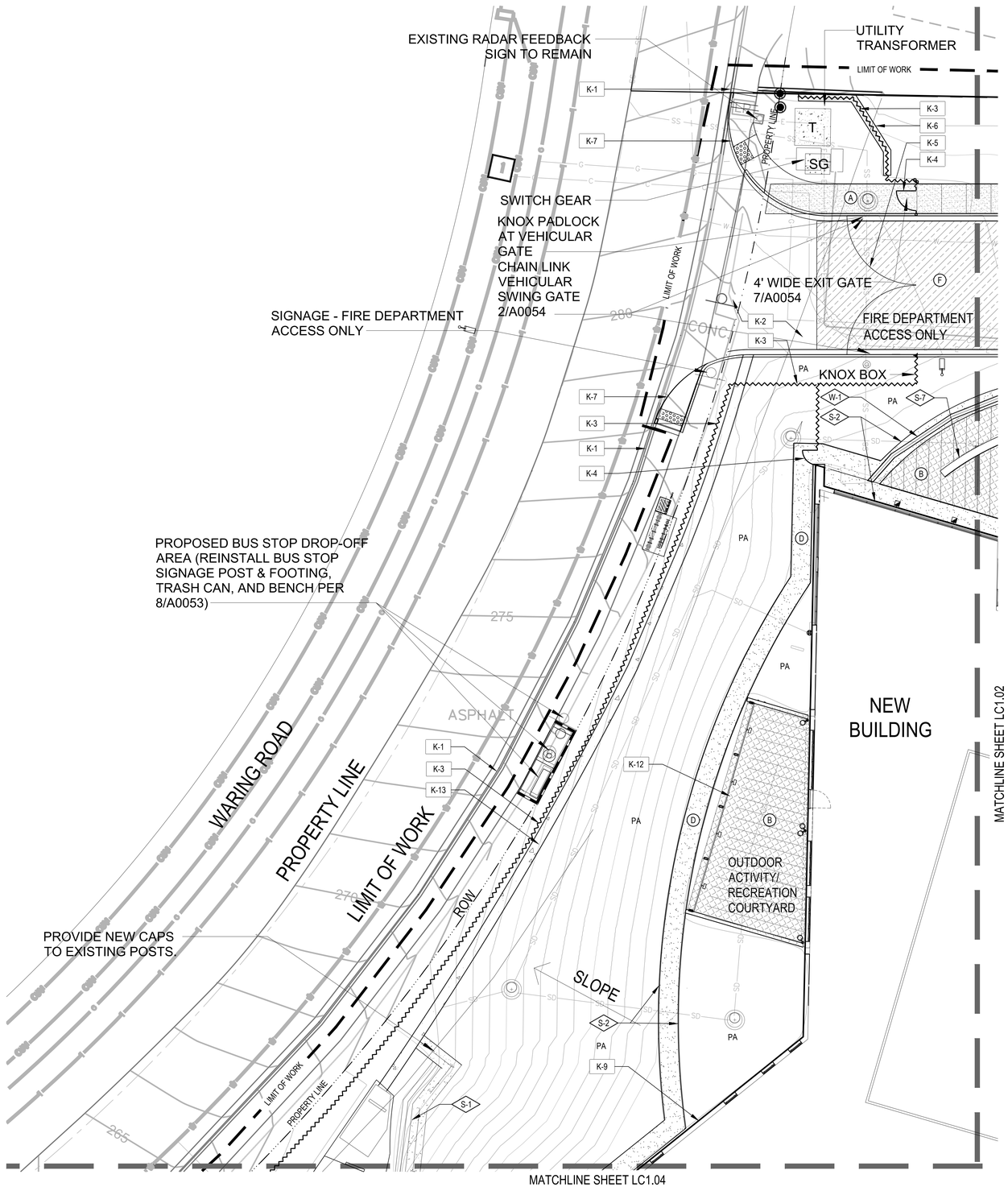
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CONSTRUCTION SYMBOLS

SYMBOL	DESCRIPTION
	SAWCUT JOINT
	ISOLATION JOINT (NOT SHOWN THIS SET)
	ALIGN
	P.O.B. (POINT OF BEGINNING)
PA	PLANTING AREA
EQ	EQUAL DIMENSIONS
TYP	TYPICAL

CONSTRUCTION LEGEND

PAVING TYPES - REFER TO SHEET LC2.00 FOR FULL CONSTRUCTION SCHEDULE

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S-3	CONCRETE STAIRS	2/ LC3.02
S-4	STAINLESS STEEL HANDRAIL	2-3/ LC3.02
S-5	ADA CONCRETE RAMP	3/ LC3.02
S-6	BENCH	-
S-7	CURVED BENCH	-

WALLS, FENCES & GATES - REFER TO SHEET LC2.00 FOR FULL CONSTRUCT. SCHEDULE

SYMBOL	DESCRIPTION	DETAIL
W-1	KEYSTONE WALL	4/ LC3.02
W-2	CAST-IN-PLACE CONCRETE CURB	1/ LC3.02

KEYNOTES

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K-1	EXISTING CURB
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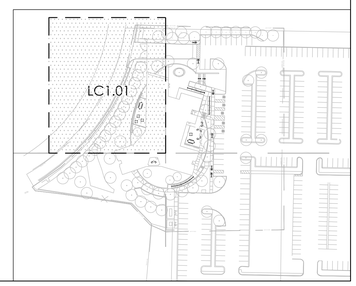
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Drawing Title:

LANDSCAPE CONSTRUCTION PLAN

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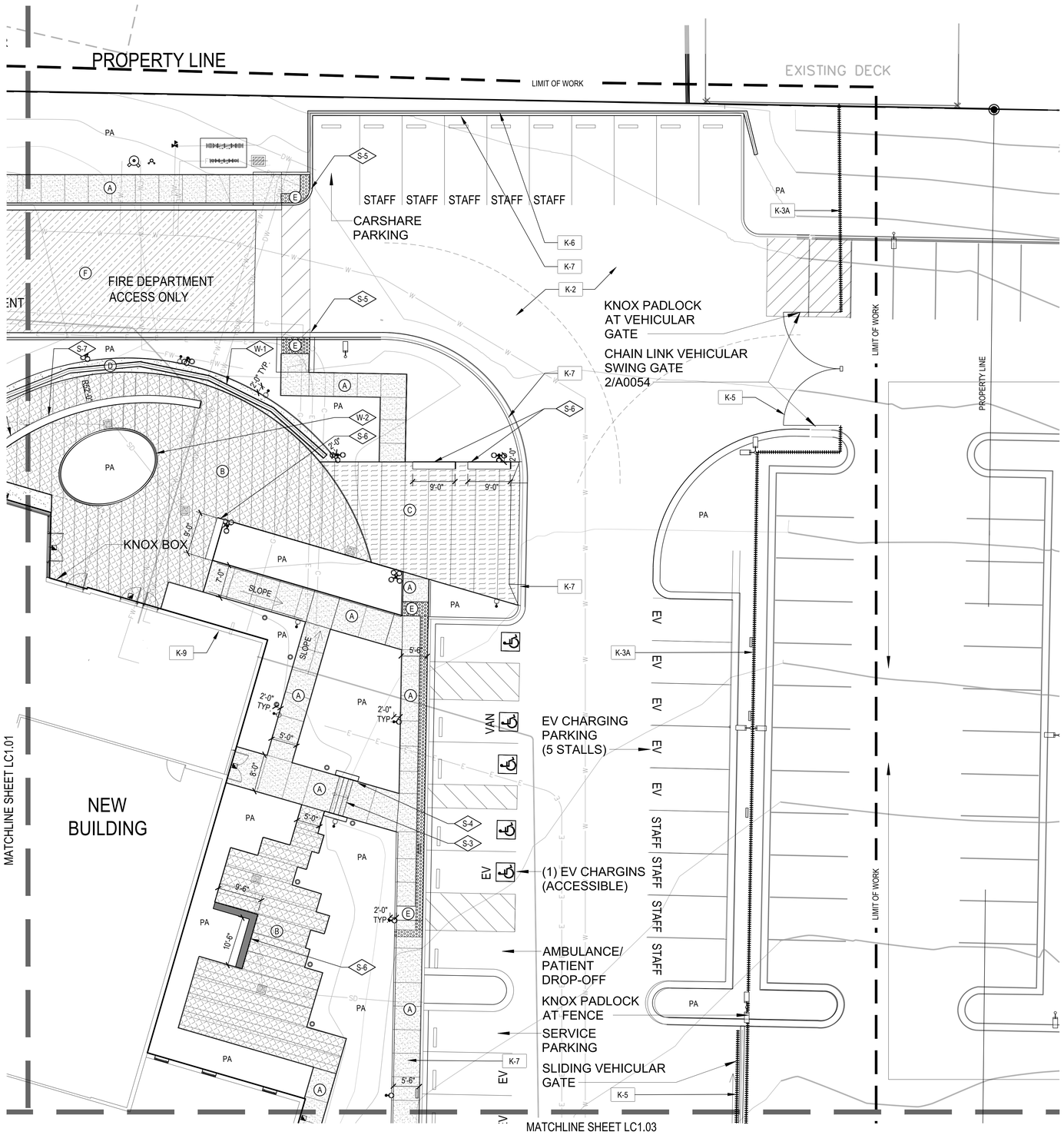
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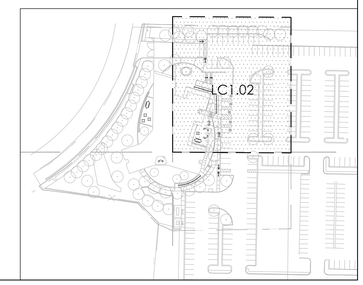
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LICENSED LANDSCAPE ARCHITECT BRAD LENHAM 4470 1/21/2022 REN 31-12 STATE OF CALIFORNIA

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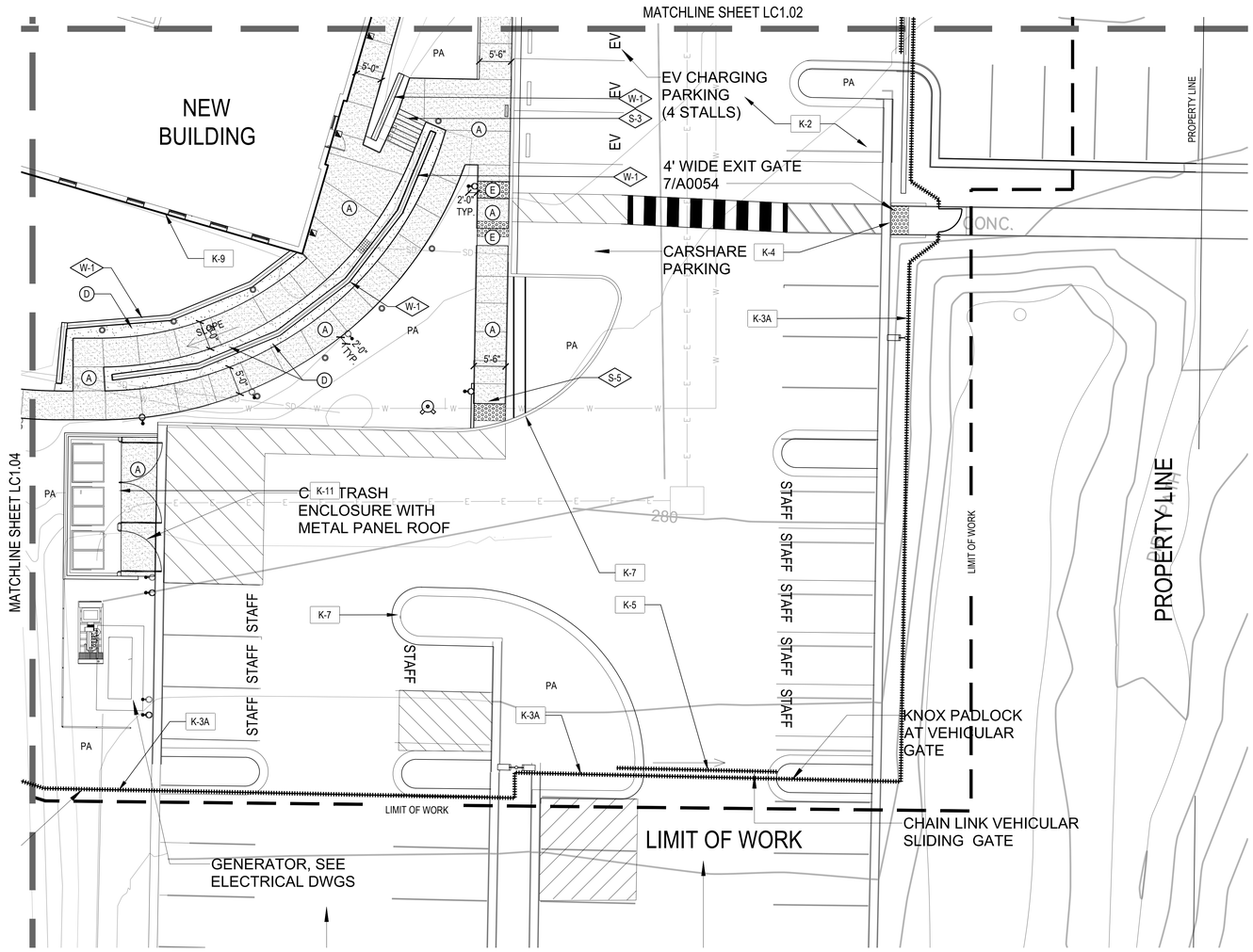
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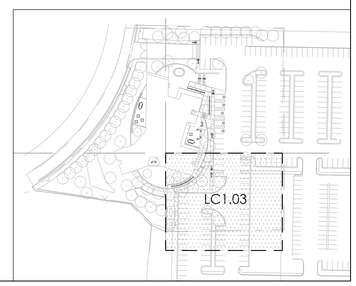
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ISSUE FOR PLAN REVIEW BACKCHECK	21 JAN 2022
ISSUE FOR PLAN REVIEW	27 OCT 2021
ISSUE FOR PLANNING	15 DEC2020
ISSUE FOR GRADING PERMIT	03 DEC 2020

Rev.	Description	Date
AGENCY APPROVAL		

FACILITY #: 12372
OSHPD #: H211094-37-00

ARCHITECT SEAL

CONSULTANT SEAL

LICENSED LANDSCAPE ARCHITECT BRAD LEAHMAN 1/31/2022 STATE OF CALIFORNIA

Drawing Title:

LANDSCAPE CONSTRUCTION PLAN

Issue Date: 01/21/2022

Project No.: 006240.00 Checked by:

LC1.03

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CONSTRUCTION NOTES

1. ALL PAVEMENT AND CURBS WITHIN 5 FEET OF A TREE SHALL BE LINED WITH A DEEP ROOT BARRIER ALONG THE EDGE OF THE HARDSCAPE.
2. ANY DISCREPANCY OR CONFLICTS IN DIMENSIONS, LANDSCAPE AREA OR MATERIAL SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
3. ISOLATION JOINTS SHALL BE INSTALLED WHERE FLATWORK ABUTTS ALL VERTICAL ELEMENTS SUCH AS CURBS, WALLS, BUILDING FACADE, ETC. THESE ARE NOT SHOWN GRAPHICALLY ON THE PLAN FOR CLARITY.
4. UTILITIES SHOWN FOR REFERENCE ONLY, REFER TO CIVIL PLANS FOR UTILITY LAYOUT. CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS AND NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES PRIOR TO START OF WORK.
5. PROVIDE WATER BARRIERS WHERE VEHICULAR PAVEMENT IS ADJACENT TO PLANTING AREAS.

CONSTRUCTION SYMBOLS

SYMBOL	DESCRIPTION
	SAWCUT JOINT
	ISOLATION JOINT (NOT SHOWN THIS SET)
	ALIGN
	P.O.B. (POINT OF BEGINNING)
PA	PLANTING AREA
EQ	EQUAL DIMENSIONS
TYP	TYPICAL

CONSTRUCTION LEGEND

PAVING TYPES - REFER TO SHEET LC2.00 FOR FULL CONSTRUCTION SCHEDULE

SYMBOL/HATCH	DESCRIPTION	DETAIL
A	PEDESTRIAN CONCRETE PAVING TYPE 'A'	1-4/ LC3.01
B	PEDESTRIAN CONCRETE PAVING TYPE 'B'	1-4/ LC3.01
C	PEDESTRIAN CONCRETE PAVING TYPE 'C'	1-4/ LC3.01
D	STABILIZED DECOMPOSED GRANITE	7/ LC3.01
E	TRUNCATED DOME PAVERS	8-9/ LC3.01
F	VEHICULAR CONCRETE	10/ LC3.01

SITE ITEMS - REFER TO SHEET LC2.00 FOR FULL CONSTRUCTION SCHEDULE

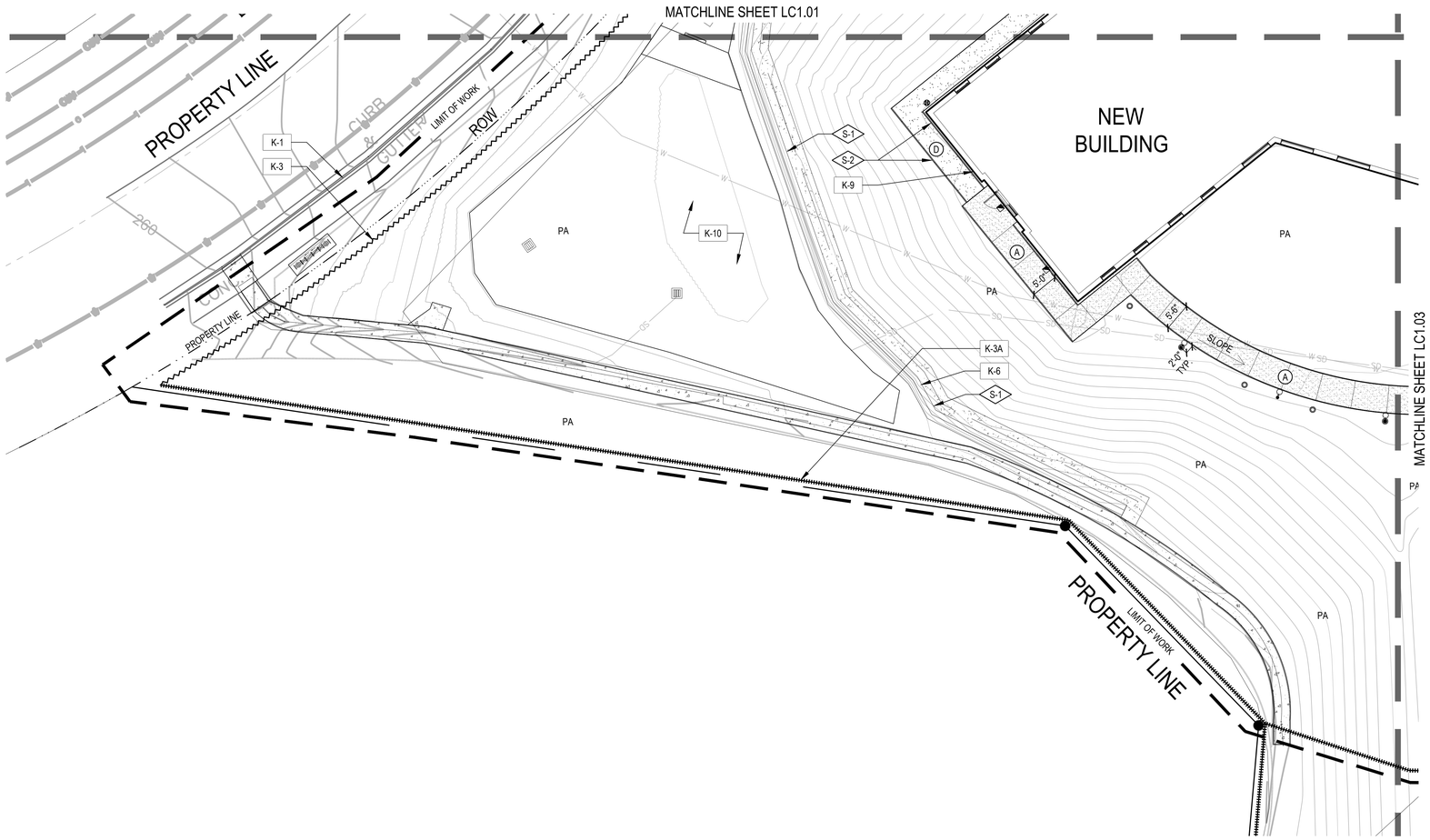
SYMBOL	DESCRIPTION	DETAIL
S-1	CABLE GUARD RAIL	1/ LC3.03
S-2	STEEL EDGING	6/ LC3.01
S-3	CONCRETE STAIRS	2/ LC3.02
S-4	STAINLESS STEEL HANDRAIL	2-3/ LC3.02
S-5	ADA CONCRETE RAMP	3/ LC3.02
S-6	BENCH	-
S-7	CURVED BENCH	-

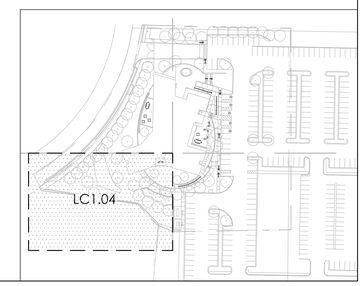
WALLS, FENCES & GATES - REFER TO SHEET LC2.00 FOR FULL CONSTRUCT. SCHEDULE

SYMBOL	DESCRIPTION	DETAIL
W-1	KEYSTONE WALL	4/ LC3.02
W-2	CAST-IN-PLACE CONCRETE CURB	1/ LC3.02

KEYNOTES

SYMBOL	DESCRIPTION
K-1	EXISTING CURB
K-2	PROPOSED VEHICULAR PAVING, SEE CIVIL DRAWINGS
K-3	PROPOSED DECORATIVE SECURITY FENCE, SEE ARCHITECTURE DRAWINGS
K-3A	PROPOSED CHAIN-LINK SECURITY FENCE, SEE ARCHITECTURE DRAWINGS
K-4	PROPOSED PEDESTRIAN GATE, SEE ARCHITECTURE DRAWINGS
K-5	PROPOSED VEHICULAR GATE, SEE ARCHITECTURE DRAWINGS
K-6	PROPOSED RETAINING WALL, SEE CIVIL DRAWINGS
K-7	PROPOSED CURB, SEE CIVIL DRAWINGS
K-8	EXISTING SIGN
K-9	PROPOSED BUILDING, SEE ARCHITECTURE DRAWINGS
K-10	PROPOSED DRAINAGE BASIN, SEE CIVIL DRAWINGS
K-11	PROPOSED TRASH ENCLOSURE, SEE ARCHITECTURE DRAWINGS
K-12	PROPOSED VINE WIRE SCREEN, SEE ARCHITECTURE DRAWINGS
K-13	PROPOSED U-DITCH, SEE CIVIL DRAWINGS





0 5' 10' 20'
1"=10'-0"

NORTH

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AGENCY APPROVAL

FACILITY #: 12372
OSHPD #: H211094-37-00

ARCHITECT SEAL

CONSULTANT SEAL

LICENSED LANDSCAPE ARCHITECT
BRADLEY LEMAHIEU
No. 6145
STATE OF CALIFORNIA

Drawing Title:

LANDSCAPE CONSTRUCTION PLAN

Issue Date: 01/21/2022

Project No.: 006240.00 Checked by:

LC1.04

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CONSTRUCTION SCHEDULE

PAVING TYPES

SYMBOL	DESCRIPTION	MANUFACTURER / SUPPLIER	MATERIAL / PRODUCT NO.	COLOR	FINISH	NOTES	DETAIL
A	PEDESTRIAN CONCRETE PAVING TYPE 'A'	LOCAL BATCH PLANT	TYPE 2 CONCRETE WITH DAVIS COLORS INTEGRAL COLOR	NATURAL GREY	ETCH PER MOCKUP	PROVIDE (3) 4'x4' MOCK-UPS WITH THE FOLLOWING TOPCAST FINISHES (#5, #15, #25)	1-4/ LC3.01
B	PEDESTRIAN CONCRETE PAVING TYPE 'B'	LOCAL BATCH PLANT	TYPE 2 CONCRETE WITH DAVIS COLORS INTEGRAL COLOR	PALOMINO #5447	ETCH PER MOCKUP	PROVIDE (3) 4'x4' MOCK-UPS WITH THE FOLLOWING TOPCAST FINISHES (#5, #15, #25)	1-4/ LC3.01
C	PEDESTRIAN CONCRETE PAVING TYPE 'C'	LOCAL BATCH PLANT	TYPE 2 CONCRETE WITH DAVIS COLORS INTEGRAL COLOR	PEBBLE #641	ETCH PER MOCKUP	PROVIDE (3) 4'x4' MOCK-UPS WITH THE FOLLOWING TOPCAST FINISHES (#5, #15, #25)	1-4/ LC3.01
D	STABILIZED DECOMPOSED GRANITE	SOUTHWEST BOULDER AND STONE	DECOMPOSED GRANITE (STABILIZED)	CALIFORNIA GOLD	LIGHT RAKE	SLOPE AWAY FROM BUILDING AND TOWARDS DRAINS	7/ LC3.01
E	TRUNCATED DOME PAVERS	TECTURA DESIGNS	ADA - 2 STRAIGHT ROW 2.375" SQUARE SPACING PATTERN	A.40 (FEDERAL YELLOW)	-	CALIFORNIA ADA COMPLIANT TRUNCATED DOME PAVER	8-9/ LC3.01
F	VEHICULAR CONCRETE	LOCAL BATCH PLANT	TYPE 2 CONCRETE WITH DAVIS COLORS INTEGRAL COLOR	PALOMINO #5447	ETCH PER MOCKUP	PROVIDE (3) 4'x4' MOCK-UPS WITH THE FOLLOWING TOPCAST FINISHES (#5, #15, #25)	10/ LC3.01

SITE ITEMS

SYMBOL	DESCRIPTION		MANUFACTURER / SUPPLIER	MATERIAL / PRODUCT NO.	COLOR	FINISH	NOTES	DETAIL
S-1	CABLE GUARD RAIL		-	-	-	-	-	1 / LC3.03
S-2	STEEL EDGING		J.D. RUSSELL	DURAEDGE, HEAVY DUTY 3/16" THICKNESS x 5" DEPTH	UNPAINTED	NATURAL	LAYOUT SHALL BE REVIEWED / APPROVED BY LANDSCAPE ARCHITECT ON SITE.	6/ LC3.01
S-3	CONCRETE STAIRS		LOCAL BATCH PLANT	TYPE 2 CONCRETE WITH 4LBS DAVIS CONCRETE COLORS INTEGRAL COLOR	MATCH ADJACENT CONCRETE	MATCH ADJACENT CONCRETE	-	2/ LC3.02
S-4	STAINLESS STEEL HANDRAIL	FLAT STOCK POSTS	CUSTOM	1 1/2" X 1/2" FLAT STOCK ASTM 316 STAINLESS STEEL	STAINLESS	#4 BRUSHED	-PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION -PROVIDE MOCKUP PER SPECIFICATIONS -EPOXY ESCUTCHEON PLATE TO PAVING	2-3/ LC3.02
		STEEL HANDRAIL	CUSTOM	1 1/2" DIAMETER ASTM 316 STAINLESS STEEL	STAINLESS	#4 BRUSHED		
		ESCUTCHEON PLATE	CUSTOM	3" X 3" X 1/2" ASTM 316 STAINLESS STEEL ESCUTCHEON PLATE	STAINLESS	#4 BRUSHED		
S-5	ADA CONCRETE RAMP		LOCAL BATCH PLANT	TYPE 2 CONCRETE WITH 4LBS DAVIS CONCRETE COLORS INTEGRAL COLOR	MATCH ADJACENT CONCRETE	MATCH ADJACENT CONCRETE	-	3/ LC3.02
S-6	BENCH		STREETLIFE	ROUGH&READY - CROSSWISE BENCH	FSC HARDWOOD I	GALVANIZED STEEL	20" SEAT DEPTH SEE MANUFACTURERS INSTRUCTIONS	-
S-7	CURVED BENCH		STREETLIFE	ROUGH&READY - CURVED BENCH	FSC HARDWOOD I	GALVANIZED STEEL	20" SEAT DEPTH SEE MANUFACTURERS INSTRUCTIONS	-

WALL, FENCES, & GATES

SYMBOL	DESCRIPTION	MANUFACTURER / SUPPLIER	MATERIAL / PRODUCT NO.	COLOR	FINISH	NOTES	DETAIL
W-1	KEYSTONE WALL	KEYSTONE	-	TBD	TBD	HEIGHT VARIES PER CIVIL DRAWINGS	4/ LC3.02
W-2	CAST-IN-PLACE CONCRETE CURB	LOCAL BATCH PLANT	TYPE 2 CONCRETE WITH 4LBS DAVIS CONCRETE COLORS INTEGRAL COLOR	MATCH ADJACENT CONCRETE	MATCH ADJACENT CONCRETE	REFER TO STRUCTURAL DRAWINGS FOR FOOTING SIZE AND REINFORCEMENT	1/ LC3.02

FOOT NOTES

1. "OR APPROVED EQUAL" SUBSTITUTION PROPOSALS WILL BE EVALUATED BASED ON THE PROVISIONS DETAILED IN THE CONTRACT SPECIFICATIONS. SPECIFIC EVALUATION CRITERIA INCLUDING PRODUCT AND PERFORMANCE CHARACTERISTICS BY WHICH SUBSTITUTIONS WILL BE EVALUATED IS INCLUDED IN APPLICABLE SPECIFICATION SECTIONS .
2. REFER TO SPEC SECTION 099601 FOR SPECIFIC PAINT COMPONENTS FOR ALL ITEMS TO BE PAINTED.

CONTACT INFORMATION FOR SPECIFIED PRODUCTS

1. ACKER-STONE INDUSTRIES, INC.
   STAN JIROVSKY, 951-674-0047, SJIROVSKY@ACKERSTONE.COM
2. J.D. RUSSELL
   HEADQUARTERS, 800-888-7425, CONTACT@JDRUSSELLCO.COM
3. KEYSTONE
   ERNIE BONE, 800-596-3844 OR 250-494-1293, ERNIE.BONE@PACCOAST.COM
4. PRESTO
   920-738-1328, INFO@PRESTOGEO.COM
5. SOUTHWEST BOULDER AND STONE
   ERIKA TREPTOW, 760 451-3333, MSMCLEOD@SOUTHWESTBOULDER.COM
6. STREETLIFE
   215-247-0148, STREETLIFE@STREETLIFEAMERICA.COM

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AGENCY APPROVAL

FACILITY #: 12372
OSHPD #: H211094-37-00

ARCHITECT SEAL

CONSULTANT SEAL

LICENSED LANDSCAPE ARCHITECT
BRAD LENHAM
No. 5415
DATE 1/21/22
OF CALIFORNIA

Drawing Title:

LANDSCAPE
CONSTRUCTION SCHEDULE

Issue Date: 01/21/2022

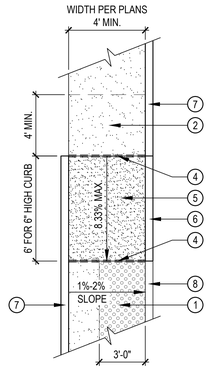
Project No.: 006240.00 Checked by:

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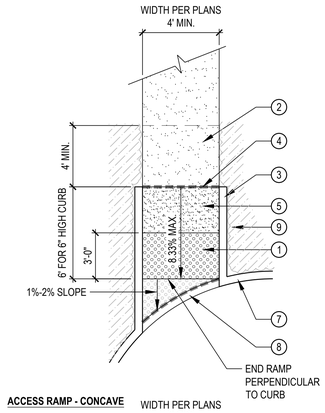
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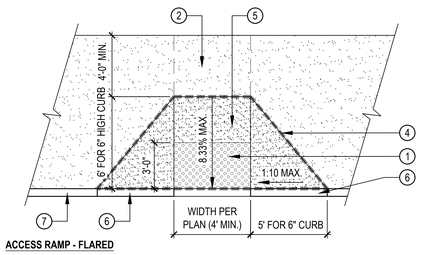
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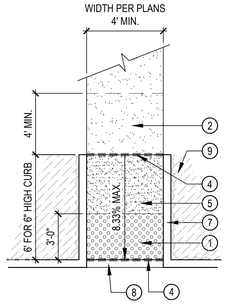
ACCESS RAMP - CONCAVE

LEGEND
1. TRUNCATED DOME PAVERS PER DETAIL 6/LC3.01
2. LANDING; 2% MAX. SLOPE IN ANY DIRECTION, FINISH PER PLAN
3. CONCRETE CURB PER CIVIL ENGINEER
4. ISOLATION JOINT PER DETAIL 3/LC3.01
5. RAMP SURFACE; 2% MAX. CROSS SLOPE, HEAVY BROOM FINISH
6. TRANSITION CURB PER CIVIL ENGINEER'S PLANS
7. 6" CURB PER CIVIL ENGINEER'S PLANS
8. FLUSH CURB PER CIVIL ENGINEER'S PLANS
9. PLANTING AREA

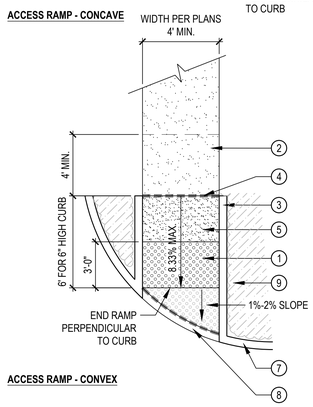
NOTES
A. CONCRETE COLOR OF RAMP PER PLAN, FINISH PER DETAIL.
B. CURBS TO BE NATURAL GRAY CONCRETE.
C. CURB RAMPS SHALL BE INSTALLED PER CBC 11B-406
D. TRUNCATED DOMES SHALL BE INSTALLED PER CBC 11B-247
E. MAXIMUM 5% COUNTER SLOPE OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO AND WITHIN 24" OF CURB RAMP PER CBC FIGURE 11B-406.5.7
F. CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING IF ANY FIELD CONDITIONS DO NOT CONFORM TO THE INFORMATION INDICATED IN THIS DETAIL
G. TRUNCATED DOME PAVERS TO BE SET FLUSH WITH ADJACENT SURFACE



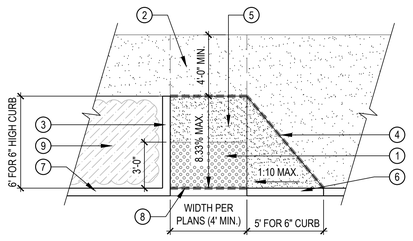
ACCESS RAMP - FLARED



ACCESS RAMP - CURBED



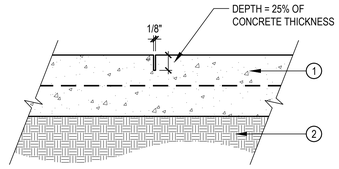
ACCESS RAMP - CONVEX



ACCESS RAMP - CURBED AND FLARED

9 CURB RAMP - VARIOUS CONDITIONS
SCALE: 1/4" = 1'-0"

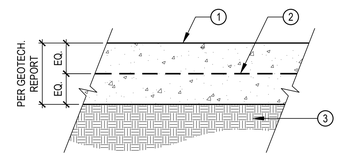
LEGEND
1. CONCRETE PAVING PER DETAIL 1 / LC3.01
2. BASE AND SUBGRADE PREPARATION PER CONCRETE PAVING DETAIL



5 SAWCUT JOINT
SCALE: 3" = 1'-0"

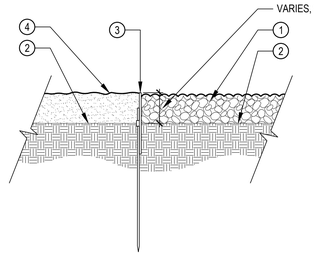
LEGEND
1. CAST-IN-PLACE CONCRETE, TYPE AND FINISH PER CONSTRUCTION SCHEDULE
2. REINFORCING PER GEOTECHNICAL REPORT, (IF NO RECOMMENDATIONS ARE NOT GIVEN, PROVIDE #3 REBAR @ 18". O.C.)
3. BASE AND SUBGRADE PREPARATION PER GEOTECHNICAL REPORT

NOTE
A. CONCRETE PAVING TO BE SEALED PER SPECIFICATIONS.



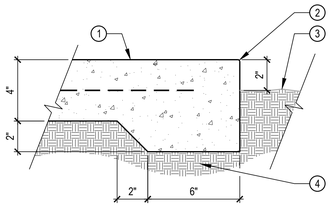
1 CONCRETE PAVING - PEDESTRIAN
SCALE: 3" = 1'-0"

LEGEND
1. DECORATIVE GRAVEL PER MULCH PLAN
2. FINISH GRADE
3. STEEL HEADER PER CONSTRUCTION SCHEDULE
4. MULCH LEVEL IN ADJACENT PLANTING AREA



6 STEEL EDGING
SCALE: 3" = 1'-0"

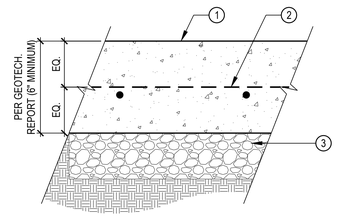
LEGEND
1. CONCRETE PAVING PER DETAIL 1 / LC3.01
2. 1/8" RADIUS TOOLED EDGE
3. PLANTING AREA
4. BASE AND SUBGRADE PREPARATION PER CONCRETE PAVING DETAIL



2 THICKENED CONCRETE EDGE
SCALE: 3" = 1'-0"

LEGEND
1. CAST-IN-PLACE CONCRETE, TYPE AND FINISH PER CONSTRUCTION SCHEDULE
2. REINFORCING PER GEOTECHNICAL REPORT
3. BASE AND SUBGRADE PREPARATION PER GEOTECHNICAL REPORT

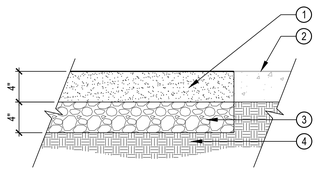
NOTE
A. CONCRETE PAVING TO BE SEALED PER SPECIFICATIONS.



10 CONCRETE PAVING -VEHICULAR
SCALE: 3" = 1'-0"

NOTES
A. APPLY PATHWAY STABILIZER BY 'STABILIZER SOLUTIONS' TO DECOMPOSED GRANITE PER MANUFACTURER'S RECOMMENDATIONS.

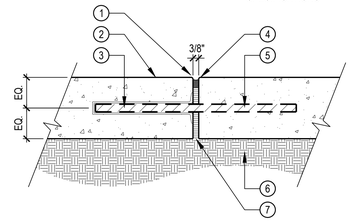
LEGEND
1. STABILIZED DECOMPOSED GRANITE PER CONSTRUCTION SCHEDULE
2. ADJACENT EXISTING CONCRETE PAVING
3. CLASS II BASE COMPACTED PER GEOTECHNICAL REPORT
4. BASE AND SUBGRADE PREPARATION PER GEOTECHNICAL REPORT



7 STABILIZED DECOMPOSED GRANITE PAVING
SCALE: 1 1/2" = 1'-0"

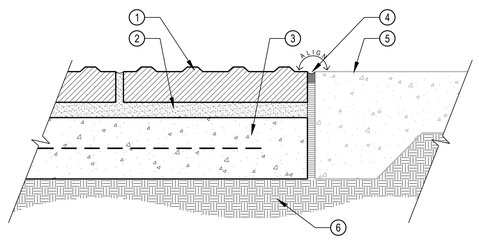
NOTE
A. CENTER DIAMOND DOWEL 6" FROM JOINT INTERSECTIONS PER MANUFACTURER'S RECOMMENDATIONS.

LEGEND
1. JOINT SEALANT PER SPECIFICATIONS
2. CONCRETE PAVING PER DETAIL 1 / LC3.01
3. INSTALLATION TEMPLATE / DOWEL POCKET PER SPECIFICATIONS
4. 1/8" RADIUS TOOLED EDGES
5. DIAMOND DOWEL
6. BASE AND SUBGRADE PREPARATION PER CONCRETE PAVING DETAIL
7. PREMOLDED ISOLATION JOINT FILLER PER SPECIFICATIONS



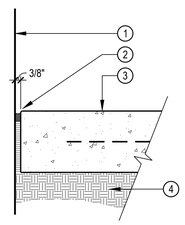
3 ISOLATION JOINT
SCALE: 3" = 1'-0"

LEGEND
1. PRECAST CONCRETE PAVERS PER CONSTRUCTION SCHEDULE
2. MORTAR SETTING BED PER MANUFACTURER RECOMMENDATIONS
3. 4" CONCRETE BASE
4. ISOLATION JOINT PER DETAIL 4 / LC3.01
5. CONCRETE PAVING PER DETAIL 1 / LC3.01
6. BASE AND SUBGRADE PREPARATION PER CONCRETE PAVING DETAIL



8 TRUNCATED DOME PAVERS
SCALE: 3" = 1'-0"

LEGEND
1. FACE OF VERTICAL SURFACE (BUILDING, PLANTER WALL, CURB, ETC.)
2. ISOLATION JOINT PER DETAIL 3 / LC3.01
3. CONCRETE PAVING PER DETAIL 1 / LC3.01
4. BASE AND SUBGRADE PREPARATION PER CONCRETE PAVING DETAIL



4 ISOLATION JOINT AT VERTICAL SURFACE
SCALE: 3" = 1'-0"

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ARCHITECT SEAL

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Drawing Title:
LANDSCAPE
CONSTRUCTION DETAILS -1

Issue Date: 01/21/2022
Project No.: 006240.00 Checked by:

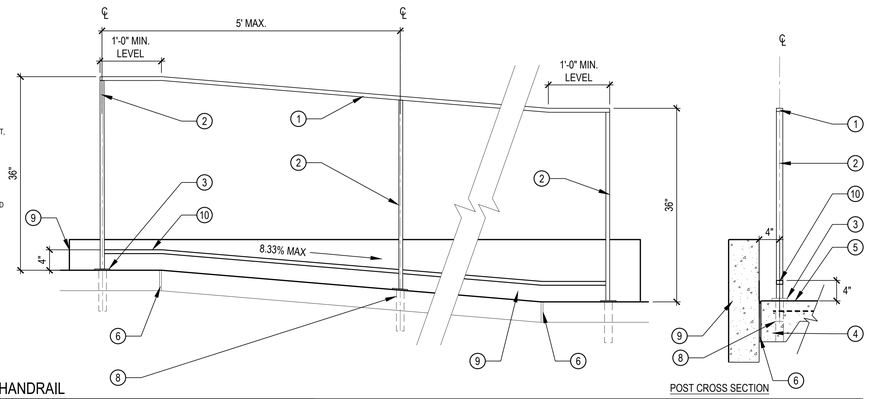
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LEGEND
1. 1-1/4" X 3/4" FLAT STEEL HANDRAIL PER CONSTRUCTION SCHEDULE
2. 1-1/4" X 3/4" FLAT STEEL POSTS PER CONSTRUCTION SCHEDULE, CENTER INTERMEDIATE POSTS WHERE NECESSARY, 5' 0.C. MAXIMUM SPACING UNLESS OTHERWISE NOTED
3. 3" SQUARE STAINLESS STEEL SINGLE-PIECE ESCUTCHEON (1 PER POST) PER CONSTRUCTION SCHEDULE
4. CONCRETE THICKENED EDGE PER DETAIL 3 / LC-3.01
5. ADJACENT PAVING PER PLANS
6. ISOLATION JOINT PER DETAIL 4 / LC-3.01
7. OMIT
8. CORE DRILL AND EMBED POSTS INTO THICKENED CONCRETE EDGE A MIN. OF 8" DEEP, FILL WITH EPOXY NON-SHRINK GROUT, TYP.
9. ADJACENT WALL PER PLANS
10. 1 1/4" x 3/4" FLAT STEEL WHEEL STOP PER CONSTRUCTION SCHEDULE

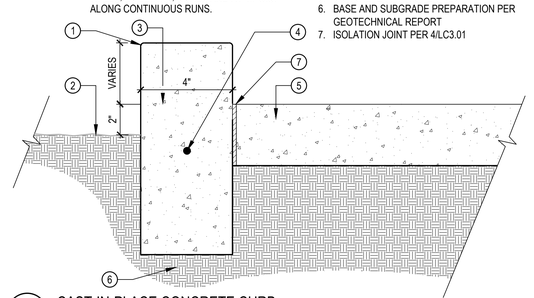
NOTES
A. HANDRAIL SHALL BE FINISHED WITH HIGH PERFORMANCE PAINT PRIOR TO DELIVERY TO THE SITE. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ALL HANDRAILS BASED ON FIELD MEASUREMENTS FOR APPROVAL PRIOR TO FABRICATION.
B. ALL CONNECTIONS SHALL BE CONTINUOUSLY WELDED AND GROUND SMOOTH
C. MID-RAILS SHALL BE EQUALLY SPACED
D. HOLD HANDRAIL POST MINIMUM OF 3" FROM EDGE OF CONCRETE
E. HANDRAIL GRIPPING SURFACES AND ANY SURFACES ADJACENT TO THEM SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS AND SHALL HAVE ROUNDED EDGES.
F. HANDRAIL GRIPPING SURFACE PERIMETER DIMENSION SHALL BE 4" MIN. AND 6 1/4" MAX. AND A CROSS-SECTION DIMENSION OF 2 1/4" MAX.
G. DIMENSIONS ARE SHOWN FOR REFERENCE ONLY, CONTRACTOR TO FIELD MEASURE ALL RAMPS
H. THE CONTRACTOR SHALL REVIEW ALL SLEEVE LOCATIONS TO DETERMINE THAT THE 3" SQUARE ESCUTCHEON PLATE WILL COVER THE SLEEVE FROM VIEW



3 ACCESSIBLE RAMP AND HANDRAIL
SCALE: 1" = 1'-0"

NOTES
A. CONCRETE COLOR AND FINISH PER CONSTRUCTION SCHEDULE.
B. PROVIDE 1/4" SCORELINES @ 10' O.C.
C. PROVIDE ISOLATION JOINTS PER DETAIL 4/LC3.01 AT INTERSECTIONS WITH PAVING, WALLS, BUILDINGS, CURBS AND AT 40' O.C. ALONG CONTINUOUS RUNS.

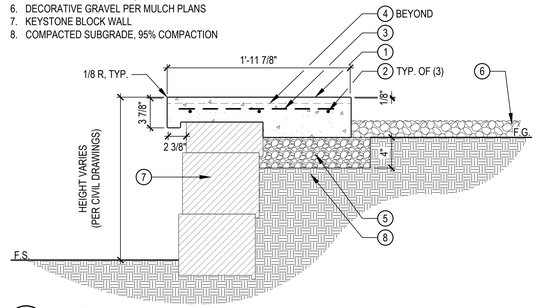
LEGEND
1. 1/2" RADIUS TOOLED EDGE
2. FINISH GRADE AT PLANTING AREA
3. CAST-IN-PLACE CONCRETE MOWCURB, EXTRUSIONS NOT ALLOWED
4. #3 REBAR CONTINUOUS (LAP 18")
5. CONCRETE PAVING PER 1/LC3.01
6. BASE AND SUBGRADE PREPARATION PER GEOTECHNICAL REPORT
7. ISOLATION JOINT PER 4/LC3.01



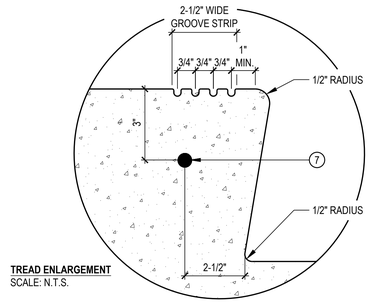
1 CAST-IN-PLACE CONCRETE CURB
SCALE: 3" = 1'-0"

LEGEND
1. C.I.P. CONCRETE CAP
2. #3 FIBERGLASS REBAR, CONTINUOUS
3. #3 FIBERGLASS REBAR @ 18" O.C.
4. SAWCUT JOINTS @ 48" O.C.
5. CLASS II BASE MATERIAL, 95% COMPACTION
6. DECORATIVE GRAVEL PER MULCH PLANS
7. KEYSTONE BLOCK WALL
8. COMPACTED SUBGRADE, 95% COMPACTION

NOTES
A. PROVIDE 9" OVERLAP SPLICES FOR REBAR SEAMS.
B. ALL FINISHES PER CONSTRUCTION SCHEDULE.



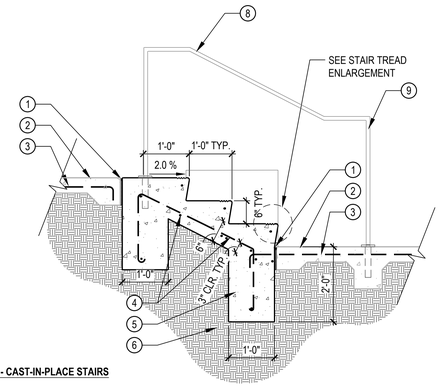
4 KEYSTONE WALL WITH C.I.P. CONCRETE CAP
SCALE: 1 1/2" = 1'-0"



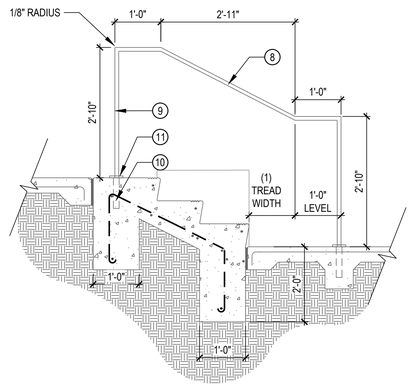
TREAD ENLARGEMENT
SCALE: N.T.S.

NOTES
A. CONCRETE COLOR AND FINISH PER CONSTRUCTION SCHEDULE.
B. CONCRETE TO BE SEALED PER SPECIFICATIONS.
C. TOOL ENTIRE WIDTH OF GROOVE STRIP WITH SPECIAL FINISHING TOOL MADE SPECIFICALLY FOR THIS APPLICATION. ALL GROOVE STRIPS SHALL CONFORM TO CURRENT ADA REQUIREMENTS.
D. GROOVE STRIP TO BE STAINED ENTIRE LENGTH - COLOR "BLACK" AS MANUFACTURED BY Q.C. CONSTRUCTION PRODUCTS.
E. ALL WELDS SHALL BE 1/8" FILLET WELDS - GRIND ALL WELDS SMOOTH
F. HANDRAIL SHALL CONFORM TO 2019 CBC AND ANY LOCAL ORDINANCES
G. ALL STEEL MEMBERS SHALL BE MADE IN AN APPROVED FABRICATOR'S SHOP; THE APPROVED FABRICATOR SHALL SUBMIT THE CERTIFICATION OF COMPLIANCE TO THE BUILDING INSPECTOR PRIOR TO ERECTION PER CBC SECTION 1704.2.2
H. ALL STEEL SHALL BE 316 GRADE STAINLESS STEEL PER CONSTRUCTION SCHEDULE
I. STAIR HEIGHT SHALL BE 5 1/2" MIN-6 1/2" MAX. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY AND PRIOR TO INSTALLATION IF HEIGHTS EXCEED THIS RANGE

LEGEND
1. ISOLATION JOINT PER DETAIL 3 / LC3.01
2. FINISH SURFACE OF CONCRETE PAVING PER CONSTRUCTION SCHEDULE
3. #3 DOWELL AT 18" O.C.
4. #4 REBAR @ 12" O.C. EACH WAY
5. CONCRETE FOOTING
6. BASE AND SUBGRADE PREPARATION PER GEOTECHNICAL REPORT
7. #3 REBAR HORIZONTAL, CONTINUOUS
8. 1"X1-1/2" FLAT STEEL HANDRAIL PER CONSTRUCTION SCHEDULE
9. 1"X1-1/2" FLAT STEEL END POST PER CONSTRUCTION SCHEDULE
10. CORE DRILL AND DRY PACK POSTS INTO CONCRETE PAVING AT A MINIMUM OF 8" DEPTH, TYP.
11. 3" SQUARE ESCUTCHEON PLATE, TYP.



SECTION - CAST-IN-PLACE STAIRS



2 CAST-IN-PLACE CONCRETE STAIRS & STAINLESS STEEL HANDRAIL
SCALE: 3/4" = 1'-0"

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REGISTERED LANDSCAPE ARCHITECT BRAD LENARTZ No. 5821 STATE OF CALIFORNIA

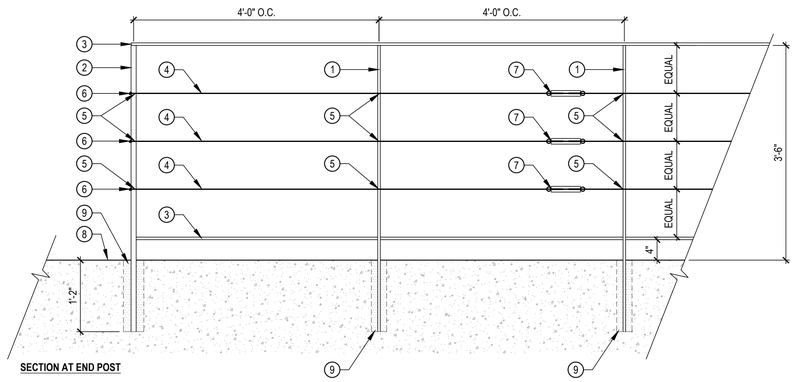
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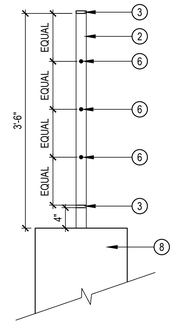
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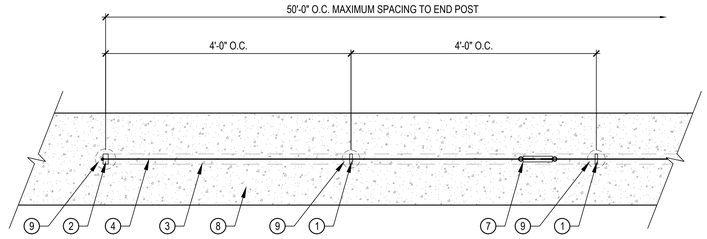
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SECTION AT END POST



ELEVATION AT END POST



PLAN VIEW AT END POST

LEGEND
1. 2" WIDE x 1/2" THICK FLATBAR POST
2. 2" WIDE x 1" THICK FLATBAR END POST. INSTALL AT EACH END AND EVERY 50' ON CENTER. AT 50' ON CENTER LOCATION INSTALL (2) POST 6" APART AND DISCONTINUE EACH SEGMENT OF CABLE RUN AT THE POST
3. 2" WIDE x 1/2" THICK FLATBAR TOP & BOTTOM RAIL
4. 1/4" THICK STAINLESS STEEL AIRCRAFT CABLE
5. 1/2" WIDE STAINLESS STEEL PROTECTOR SLEEVE INSTALLED AT EACH POST HOLE. INSTALL SLEEVE AS CABLE IS THREADED THROUGH POST HOLE.
6. STAINLESS STEEL CABLE END CAP TO MATCH ARCHITECTS APPROVED SUBMITTAL
7. (1) 6" LONG STAINLESS STEEL TURNBUCKLE PER 50 LINEAR FEET OF CABLE. LOCATE MID SPAN BETWEEN END POSTS. (SHOWN FOR REFERENCE ONLY)
8. EXISTING CONCRETE WALL
9. CORE DRILL MINIMUM OF 3/4" BEYOND POST ON ALL SIDE. FILL WITH NON SHRINK GROUT. FINISH TO MATCH ADJACENT WALL FINISH.

NOTES
A. ALL STEEL TO RECEIVE 2 COATS OF PRIMER AND 2 COATS OF HIGH PERFORMANCE PAINT PER ARCHITECTS APPROVED DRAW DOWN.
B. INSTALL OSHA CABLE BARRIER DETAIL ON TOP OF THE EXISTING PERIMETER WALL WHERE THE DISTANCE BETWEEN FINISHED GRADE AND THE TOP OF WALL IS LESS THAN 42". FIELD CONFIRM LENGTH OF BARRIER.
C. ALL WELDS TO BE CONTINUOUS AND GROUND SMOOTH

1 CABLE GUARD RAIL
SCALE: 1" = 1'-0"

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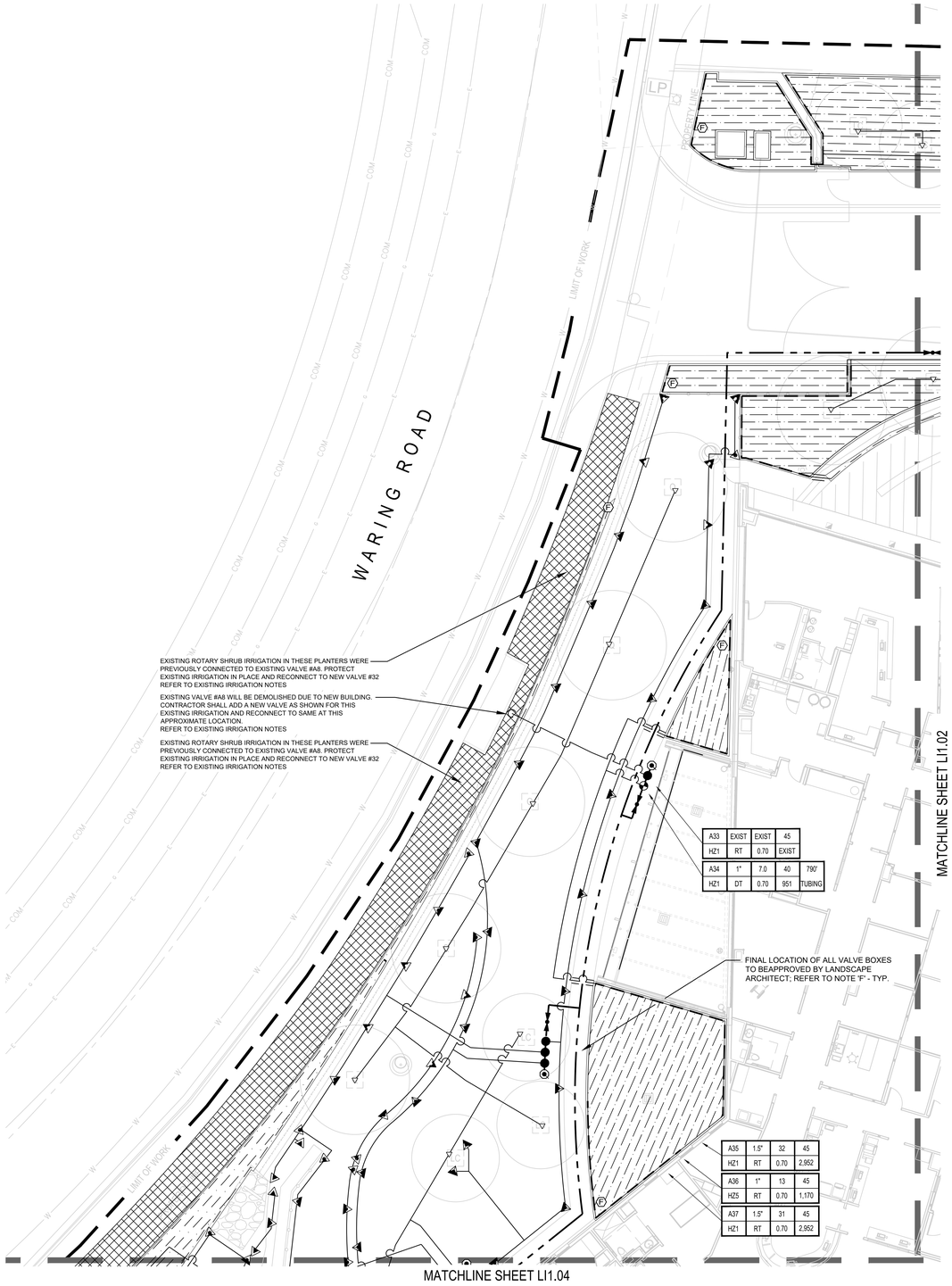
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EXISTING IRRIGATION NOTES

NOTE 1:
CONTRACTOR SHALL MAINTAIN EXISTING MAINLINES IN WORKING ORDER. COORDINATE ALL INTERRUPTIONS OF OPERATION OF THE EXISTING IRRIGATION TO A MINIMUM. COORDINATE ALL INTERRUPTIONS WITH THE OWNER'S REPRESENTATIVE.

NOTE 2:
CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING IRRIGATION EQUIPMENT DAMAGED DURING CONSTRUCTION AND IF DAMAGED, SHALL REPLACE WITH SAME MANUFACTURER AND MODEL.

NOTE 3:
ANY EXISTING IRRIGATION CONTROL VALVES CONNECTED TO EXISTING CONTROLLER SHALL BE RECONNECTED TO EXISTING CONTROLLER. CONFIRM PROPER CONTROLLER OPERATION AND INSTALLATION WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK AND UPON COMPLETION OF WORK.

NOTE 4:
CONTRACTOR SHALL CONFIRM THE EXISTING CONTROLLER MAKE AND MODEL AND SHALL CONFIRM THAT SAID CONTROLLER HAS ADEQUATE OPEN STATIONS TO OPERATE ANY ADJUSTED AND ALL PROPOSED IRRIGATION SYSTEM MODIFICATIONS. NOTIFY OWNER'S AUTHORIZED REPRESENTATIVE SHOULD ANY DISCREPANCIES BE NOTED.

NOTE 5:
CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR/MODIFICATION/REROUTING OF ALL ADJACENT IRRIGATION SYSTEM EQUIPMENT THAT IS AFFECTED BY NEW CONSTRUCTION IMPROVEMENTS. CONTRACTOR SHALL REPAIR SAID SYSTEMS TO A LIKE NEW MANNER, PROVIDING NO LESS THAN 100% OF HEAD RADIUS COVERAGE IN ALL AREAS WITH SYSTEM LAYOUT AS APPROVED BY OWNER'S AUTHORIZED REPRESENTATIVE. CONTRACTOR SHALL CONFIRM ALL AREAS REQUIRING MODIFICATION WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO BIDDING WORK AND PRIOR TO COMMENCING WORK.

NOTE 6:
CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE REMOVAL AND DISPOSAL OF ALL EXISTING IRRIGATION EQUIPMENT AFFECTED BY THE NEW CONSTRUCTION IMPROVEMENTS, IF NECESSARY. CONTRACTOR SHALL VERIFY ALL EQUIPMENT TO BE REMOVED AND DISPOSED OF IN FIELD PRIOR TO BIDDING WORK AND PRIOR TO COMMENCING WORK.

NOTE 7:
CONTRACTOR SHALL FIELD VERIFY DEPTH AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO BIDDING WORK AND AGAIN PRIOR TO COMMENCING WORK. VERIFICATION SHALL BE DOCUMENTED AND DELIVERED TO OWNER'S REPRESENTATIVE.

NOTE 8:
CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT OF ALL SCH. 40 PVC SLEEVING UNDER PAVING, WALLS AND CURBS AT NO LESS THAN 24" BELOW GRADE AND NO LESS THAN 2X DIAMETER OF IRRIGATION PIPE IN AREAS WHERE PIPE CROSSING WILL OCCUR. WHEN PIPE SIZE IS NOT AVAILABLE USE 6" SLEEVING MATERIAL. CONFIRM CROSSINGS WITH OWNER'S REPRESENTATIVE PRIOR TO PAVING AND HARDSCAPE CONSTRUCTION.

NOTE 9:
EXISTING IRRIGATION IN THIS AREA SHALL BE PROTECTED IN PLACE FOR CONTINUED USE. CONTRACTOR SHALL VERIFY THE EXTENT OF THE EXISTING SYSTEM AND MAKE ADJUSTMENTS TO CAP OFF OR MODIFY THE EXITING SYSTEM TO MEET THE NEW LANDSCAPE CONDITION IF NECESSARY.

NOTE 10:
CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING WITHIN THE DRIPLINE OF EXISTING TREES. NO MECHANICAL TRENCHING WITHIN THE DRIPLINE OF THE EXISTING TREE WILL BE ALLOWED. CONTRACTOR SHALL REFER TO ARBORIST REPORT FOR ADDITIONAL PRECAUTIONS REQUIRED FOR THE EXISTING TREES. VERIFY ALL LAYOUT IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE.

NOTE 11:
CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING BACKFLOW DEVICE AND TESTING FOR PROPER OPERATION. SHOULD BACKFLOW DEVICE BE INOPERABLE OR NOT IN PLACE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF SAID BACKFLOW DEVICE. CONFIRM ANY DISCREPANCIES WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO BIDDING WORK AND PRIOR TO COMMENCING WORK.

NOTE 12:
CONTRACTOR SHALL ADD CHECK VALVES AS NECESSARY TO PREVENT LOW HEAD DRAINAGE.

IRRIGATION NOTES

NOTE A:
THESE PLANS ARE DIAGRAMMATIC, THE MAINLINE AND RELATED IRRIGATION EQUIPMENT IS SHOWN WITHIN THE PAVING FOR CLARITY ONLY. THE ACTUAL LOCATION OF MAINLINE AND RELATED IRRIGATION EQUIPMENT SHALL BE WITHIN PLANTER AND A MINIMUM OF 18" OFF ADJACENT HARDSCAPE AND OTHER OBSTACLES, TYPICAL.

NOTE B:
CONTRACTOR SHALL ADJUST ALL HEADS AS REQUIRED TO ACCOMMODATE ANY VERTICAL OBSTRUCTIONS THAT MAY OCCUR IN THE LANDSCAPE, INCLUDING BUT NOT LIMITED TO LIGHT POLES, FIRE HYDRANTS, TREES, ETC. WHEN A SLIGHT RELOCATION OF THE HEAD IS NOT SUFFICIENT TO CLEAR THE OBSTACLE, OR IF IT NEGATIVELY AFFECTS THE COVERAGE, AN ADDITIONAL HEAD SHALL BE INSTALLED TO PLACE ONE HEAD ON EITHER SIDE OF THE OBSTACLE. THE NOZZLES OF THESE TWO HEADS SHALL HAVE ARC PATTERNS THAT ADD UP TO THE ORIGINAL ARC PATTERN OF THE HEAD INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY ALL HEAD LAYOUT WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

NOTE C:
THESE PLANS ARE DIAGRAMMATIC, TREE BUBBLERS AND LATERAL LINES ARE SHOWN WITHIN THE PAVING FOR CLARITY ONLY. THE ACTUAL LOCATIONS SHALL BE WITHIN THE PLANTER. THE TREE BUBBLERS SHALL BE ALIGNED WITH TREES AS SHOWN ON THE PLANTING PLANS, AND AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE. THE CONTRACTOR SHALL CONFIRM ALL LAYOUT IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

NOTE F:
THE ACTUAL CONTRACTOR PROPOSED LOCATIONS FOR THE VARIOUS IRRIGATION EQUIPMENT LISTED BELOW SHALL BE REVIEWED AND APPROVED PRIOR TO INSTALLATION. **CONTRACTOR SHALL SUBMIT TO THE OWNER AND LANDSCAPE ARCHITECT A SHOP DRAWING FOR VALVE BOX LAYOUTS PRIOR TO INSTALLATION. THE SHOP DRAWING SHALL BE PREPARED TO THE SATISFACTION OF THE OWNER AND LANDSCAPE ARCHITECT.** SHOP DRAWINGS MUST INCLUDE LOCATIONS FOR THE FOLLOWING ITEMS: 1) POINT OF CONNECTION [INCLUDING WATER POC, BACKFLOW DEVICES, MASTER CONTROL VALVES, FLOW SENSORS, ETC.], 2) ISOLATION VALVES, 3) AUTOMATIC REMOTE CONTROL VALVES [INDICATE STATION NUMBER AND SIZE], 4) QUICK COUPLING VALVES, 5) DRIP AIR RELIEF AND/OR FLUSH VALVES, 6) IRRIGATION CONTROLLER(S), 7) RELATED EQUIPMENT (AS MAY BE DIRECTED). EACH PIECE OF AFOREMENTIONED EQUIPMENT SHALL HAVE IT'S LOCATION INCLUDED ON THE SHOP DRAWINGS; LOCATIONS OF THIS EQUIPMENT SHALL BE INDICATED WITH TWO DIMENSIONS BASED FROM TWO PERMANENT POINTS OF REFERENCE [SUCH AS BUILDINGS, SIDEWALKS, CURBS, STREETLIGHTS, HYDRANTS, ETC.]. WHERE MULTIPLE COMPONENTS ARE INSTALLED WITH NO REASONABLE REFERENCE POINT BETWEEN THE COMPONENTS, DIMENSIONING MAY BASED OFF OF OTHER IRRIGATION EQUIPMENT THAT HAS BEEN DEFINED BY TWO PERMANENT POINTS. ALL SHOP DRAWING IRRIGATION SYMBOLS SHALL BE CLEARLY SHOWN AND SHALL MATCH THE SYMBOLS SHOWN ON THE IRRIGATION LEGEND OF THE DRAWINGS. CONTRACTOR SHALL INSTALL ALL VALVE BOXES AND RELATED EQUIPMENT PER THE OWNER APPROVED SHOP DRAWINGS. ONCE SHOP DRAWING LOCATIONS ARE APPROVED, THE LANDSCAPE ARCHITECT OR OWNER'S AUTHORIZED REPRESENTATIVE WILL ALLOW NO ADJUSTMENTS TO THE APPROVED VALVE BOX PLACEMENT WITHOUT PRIOR WRITTEN ACCEPTANCE.

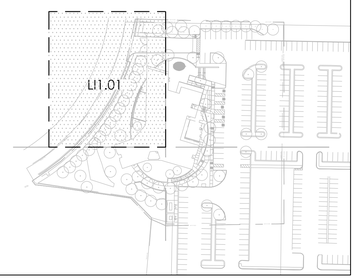
NOTE G:
AS BUILT DRAWINGS WERE NOT AVAILABLE DURING THE PRODUCTION OF THESE IRRIGATION DRAWINGS. EXACT MAINLINE AND WIRE ROUTING THROUGHOUT THE SITE IS UNKNOWN AND THE RECONNECTION LOCATIONS SHOWN ON THE PLAN ARE ASSUMPTIONS MADE BY THE DESIGNER BASED ON THE EXISTING IRRIGATION VALVE LOCATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE THE EXACT MAINLINE AND WIRE RECONNECTION LOCATIONS IN THE FIELD AND ENSURE ALL EXISTING VALVES LOCATED INSIDE AND OUTSIDE THE LIMIT OF WORK REMAIN CONNECTED TO THE IRRIGATION SUPPLY LINE AND CONTROL WIRES FOR FUTURE USE.

PRIOR TO THE DEMOLITION PHASE, IT IS RECOMMENDED THE CONTRACTOR TURN-ON EACH IRRIGATION CONTROL VALVE WITHIN THE SCOPE OF WORK AND ADJACENT TO THE SCOPE OF WORK AND DOCUMENT EACH AREA BEING SERVED BY THESE EXISTING VALVES. ALL EXISTING "PROTECTED-IN-PLACE" IRRIGATION WILL NEED TO REMAIN CONNECTED TO THEIR VALVES AND REMAIN WIRED TO THE CONTROLLER FOR CONTINUED FUTURE OPERATION. ALL EXISTING VALVES WIRED BACK TO THEIR EXISTING CONTROLLERS WILL NEED TO REMAIN WIRED TO SAID CONTROLLERS. CONTRACTOR SHALL USE THE EXISTING CONTROL WIRES FOR ALL EXISTING VALVES BEING REPLACED WITH NEW REMOTE CONTROL VALVE ASSEMBLIES. ANY MAINLINE OR WIRES DAMAGED DURING DEMO/CONSTRUCTION WILL NEED TO BE REPLACED WITH NEW AND RECONNECTED FOR CONTINUED FUTURE OPERATION OF THE EXISTING AND NEWLY DESIGNED IRRIGATION SYSTEM.

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I HAVE COMPLIED WITH THE CRITERIA OF THE IRRIGATION GUIDELINES AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN

0 5' 10' 20'
1"=10'-0"
NORTH



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Rev.	Description	Date
	ISSUE FOR OSHPD SUBMITTAL	19 NOV 2020
	AGENCY APPROVAL	

FACILITY #: 12372
OSHPD #:

ARCHITECT SEAL

CONSULTANT SEAL
LICENSED LANDSCAPE ARCHITECT
BRAD LENHAM
4470
SIGNATURE
DATE 9-21-20
STATE OF CALIFORNIA

Drawing Title:
LANDSCAPE IRRIGATION PLAN

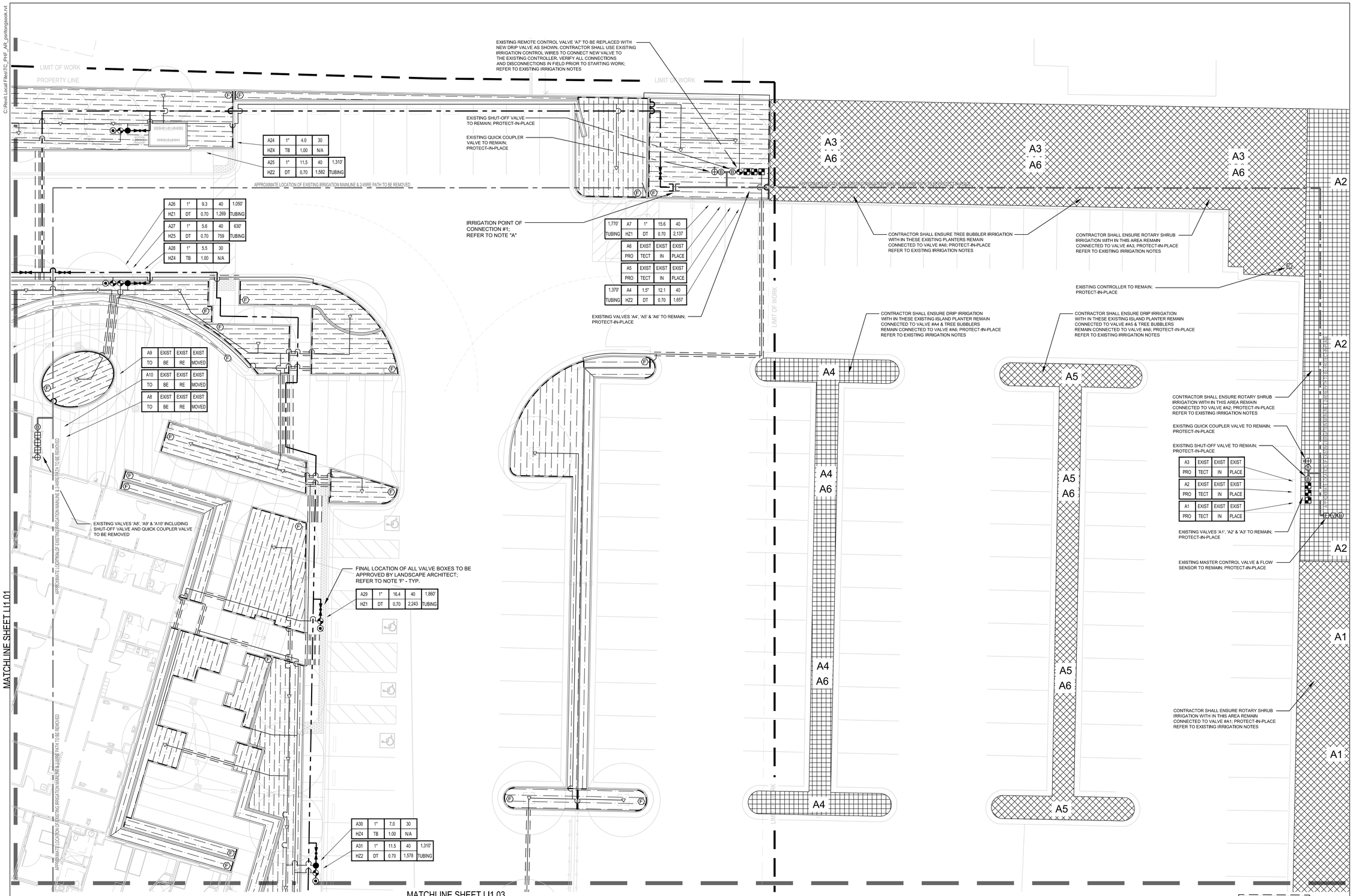
Issue Date: 11/19/2020
Project No.: 006240.00 Checked by:

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A24	1"	4.0	30	
HZ4	TB	1.00	N/A	
A25	1"	11.5	40	1,310'
HZ2	DT	0.70	1,582	TUBING

A26	1"	9.3	40	1,050'
HZ1	DT	0.70	1,269	TUBING
A27	1"	5.6	40	630'
HZ5	DT	0.70	759	TUBING
A28	1"	5.5	30	
HZ4	TB	1.00	N/A	

1,770'	A7	1"	15.6	40
TUBING	HZ1	DT	0.70	2,137
	A6	EXIST	EXIST	EXIST
	PRO	TECT	IN	PLACE
	A5	EXIST	EXIST	EXIST
	PRO	TECT	IN	PLACE
1,370'	A4	1.5"	12.1	40
TUBING	HZ2	DT	0.70	1,657

A9	EXIST	EXIST	EXIST
TO	BE	RE	MOVED
A10	EXIST	EXIST	EXIST
TO	BE	RE	MOVED
A8	EXIST	EXIST	EXIST
TO	BE	RE	MOVED

A29	1"	16.4	40	1,860'
HZ1	DT	0.70	2,243	TUBING

A30	1"	7.0	30	
HZ4	TB	1.00	N/A	
A31	1"	11.5	40	1,310'
HZ2	DT	0.70	1,578	TUBING

A3	EXIST	EXIST	EXIST
PRO	TECT	IN	PLACE
A2	EXIST	EXIST	EXIST
PRO	TECT	IN	PLACE
A1	EXIST	EXIST	EXIST
PRO	TECT	IN	PLACE

NOTE A:
POINT OF CONNECTION (POC) #1 SHALL BE A CONNECTION TO AN EXISTING MAINLINE & WIRE PATH AT THIS APPROXIMATE LOCATION. THE CONTRACTOR SHALL VERIFY THE ACTUAL LOCATION, WATER TYPE, METER SIZE AND WATER PRESSURE IN THE FIELD PRIOR TO STARTING WORK. MEASUREMENT OF THE STATIC (NO WATER MOVING) WATER PRESSURE IS ACCEPTABLE FOR POTABLE WATER SYSTEMS WHERE NO PUMP HAS BEEN INDICATED ON THESE PLANS. WHEN USING RECYCLED WATER, OR ON POTABLE WATER SYSTEMS REQUIRING A PUMP, ONLY THE MEASUREMENT OF DYNAMIC (WATER MOVING THROUGH THE METER) WATER PRESSURE, SHALL BE ACCEPTABLE. THE DYNAMIC WATER PRESSURE SHALL BE MEASURED AT THE MAXIMUM SYSTEM DEMAND AS INDICATED BELOW. IF ANY OF THE POC INFORMATION SHOWN ON THESE DRAWING IS FOUND TO BE DIFFERENT THAN THE ACTUAL POC INFORMATION GATHERED IN THE FIELD, IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT AND IRRIGATION CONSULTANT. SHOULD THE CONTRACTOR FAIL TO VERIFY THE POC INFORMATION AS SHOWN HEREIN, ANY CHANGES REQUIRED BY LOW PRESSURE OR VOLUME SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

WATER PRESSURE AT POC:	75	PSI (STATIC)
DESIGN WATER PRESSURE:	59.5	PSI
MAXIMUM SYSTEM DEMAND:	32	GPM
PRESSURE BOOST REQUIRED:	N/A	PSI
RESIDUAL WATER PRESSURE:	15.5	PSI

NOTE B:
THESE PLANS ARE DIAGRAMMATIC, THE MAINLINE AND RELATED IRRIGATION EQUIPMENT IS SHOWN WITHIN THE PAVING FOR CLARITY ONLY. THE ACTUAL LOCATION OF MAINLINE AND RELATED IRRIGATION EQUIPMENT SHALL BE WITHIN PLANTER AND A MINIMUM OF 18" OFF ADJACENT HARDSCAPE AND OTHER OBSTACLES, TYPICAL.

NOTE C:
CONTRACTOR SHALL ADJUST ALL HEADS AS REQUIRED TO ACCOMMODATE ANY VERTICAL OBSTRUCTIONS THAT MAY OCCUR IN THE LANDSCAPE, INCLUDING BUT NOT LIMITED TO LIGHT POLES, FIRE HYDRANTS, TREES, ETC. WHEN A SLIGHT RELOCATION OF THE HEAD IS NOT SUFFICIENT TO CLEAR THE OBSTACLE, OR IF IT NEGATIVELY AFFECTS THE COVERAGE, AN ADDITIONAL HEAD SHALL BE INSTALLED TO PLACE ONE HEAD ON EITHER SIDE OF THE OBSTACLE. THE NOZZLES OF THESE TWO HEADS SHALL HAVE ARC PATTERNS THAT ADD UP TO THE ORIGINAL ARC PATTERN OF THE HEAD INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY ALL HEAD LAYOUT WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

NOTE D:
THESE PLANS ARE DIAGRAMMATIC, TREE BUBBLERS AND LATERAL LINES ARE SHOWN WITHIN THE PAVING FOR CLARITY ONLY, THE ACTUAL LOCATIONS SHALL BE WITHIN THE PLANTER. THE TREE BUBBLERS SHALL BE ALIGNED WITH TREES AS SHOWN ON THE PLANTING PLANS, AND AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE. THE CONTRACTOR SHALL CONFIRM ALL LAYOUT IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

NOTE F:
THE ACTUAL CONTRACTOR PROPOSED LOCATIONS FOR THE VARIOUS IRRIGATION EQUIPMENT LISTED BELOW SHALL BE REVIEWED AND APPROVED PRIOR TO INSTALLATION. **CONTRACTOR SHALL SUBMIT TO THE OWNER AND LANDSCAPE ARCHITECT A SHOP DRAWING FOR VALVE BOX LAYOUTS PRIOR TO INSTALLATION. THE SHOP DRAWING SHALL BE PREPARED TO THE SATISFACTION OF THE OWNER AND LANDSCAPE ARCHITECT.** SHOP DRAWINGS MUST INCLUDE LOCATIONS FOR THE FOLLOWING ITEMS: 1) POINT OF CONNECTION [INCLUDING WATER POC, BACKFLOW DEVICES, MASTER CONTROL VALVES, FLOW SENSORS, ETC.], 2) ISOLATION VALVES, 3) AUTOMATIC REMOTE CONTROL VALVES [INDICATE STATION NUMBER AND SIZE], 4) QUICK COUPLING VALVES, 5) DRIP AIR RELIEF AND/OR FLUSH VALVES, 6) IRRIGATION CONTROLLER(S), 7) RELATED EQUIPMENT (AS MAY BE DIRECTED). EACH PIECE OF AFOREMENTIONED EQUIPMENT SHALL HAVE IT'S LOCATION INCLUDED ON THE SHOP DRAWINGS; LOCATIONS OF THIS EQUIPMENT SHALL BE INDICATED WITH TWO DIMENSIONS BASED FROM TWO PERMANENT POINTS OF REFERENCE [SUCH AS BUILDINGS, SIDEWALKS, CURBS, STREETLIGHTS, HYDRANTS, ETC.]. WHERE MULTIPLE COMPONENTS ARE INSTALLED WITH NO REASONABLE REFERENCE POINT BETWEEN THE COMPONENTS, DIMENSIONING MAY BASED OFF OF OTHER IRRIGATION EQUIPMENT THAT HAS BEEN DEFINED BY TWO PERMANENT POINTS. ALL SHOP DRAWING IRRIGATION SYMBOLS SHALL BE CLEARLY SHOWN AND SHALL MATCH THE SYMBOLS SHOWN ON THE IRRIGATION LEGEND OF THE DRAWINGS. CONTRACTOR SHALL INSTALL ALL VALVE BOXES AND RELATED EQUIPMENT PER THE OWNER APPROVED SHOP DRAWINGS. ONCE SHOP DRAWING LOCATIONS ARE APPROVED, THE LANDSCAPE ARCHITECT OR OWNER'S AUTHORIZED REPRESENTATIVE WILL ALLOW NO ADJUSTMENTS TO THE APPROVED VALVE BOX PLACEMENT WITHOUT PRIOR WRITTEN ACCEPTANCE.

NOTE G:
AS BUILT DRAWINGS WERE NOT AVAILABLE DURING THE PRODUCTION OF THESE IRRIGATION DRAWINGS. EXACT MAINLINE AND WIRE ROUTING THROUGHOUT THE SITE IS UNKNOWN AND THE RECONNECTION LOCATIONS SHOWN ON THE PLAN ARE ASSUMPTIONS MADE BY THE DESIGNER BASED ON THE EXISTING IRRIGATION VALVE LOCATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE THE EXACT MAINLINE AND WIRE RECONNECTION LOCATIONS IN THE FIELD AND ENSURE ALL EXISTING VALVES LOCATED INSIDE AND OUTSIDE THE LIMIT OF WORK REMAIN CONNECTED TO THE IRRIGATION SUPPLY LINE AND CONTROL WIRES FOR FUTURE USE.

PRIOR TO THE DEMOLITION PHASE, IT IS RECOMMENDED THE CONTRACTOR TURN-ON EACH IRRIGATION CONTROL VALVE WITHIN THE SCOPE OF WORK AND ADJACENT TO THE SCOPE OF WORK AND DOCUMENT EACH AREA BEING SERVED BY THESE EXISTING VALVES. ALL EXISTING "PROTECTED-IN-PLACE" IRRIGATION WILL NEED TO REMAIN CONNECTED TO THEIR VALVES AND REMAIN WIRED TO THE CONTROLLER FOR CONTINUED FUTURE OPERATION. ALL EXISTING VALVES WIRED BACK TO THEIR EXISTING CONTROLLERS WILL NEED TO REMAIN WIRED TO SAID CONTROLLERS. CONTRACTOR SHALL USE THE EXISTING CONTROL WIRES FOR ALL EXISTING VALVES BEING REPLACED WITH NEW REMOTE CONTROL VALVE ASSEMBLIES. ANY MAINLINE OR WIRES DAMAGED DURING DEMO/CONSTRUCTION WILL NEED TO BE REPLACED WITH NEW AND RECONNECTED FOR CONTINUED FUTURE OPERATION OF THE EXISTING AND NEWLY DESIGNED IRRIGATION SYSTEM.

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I HAVE COMPLIED WITH THE CRITERIA OF THE IRRIGATION GUIDELINES AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN

0 5' 10' 20'
1"=10'-0"
NORTH

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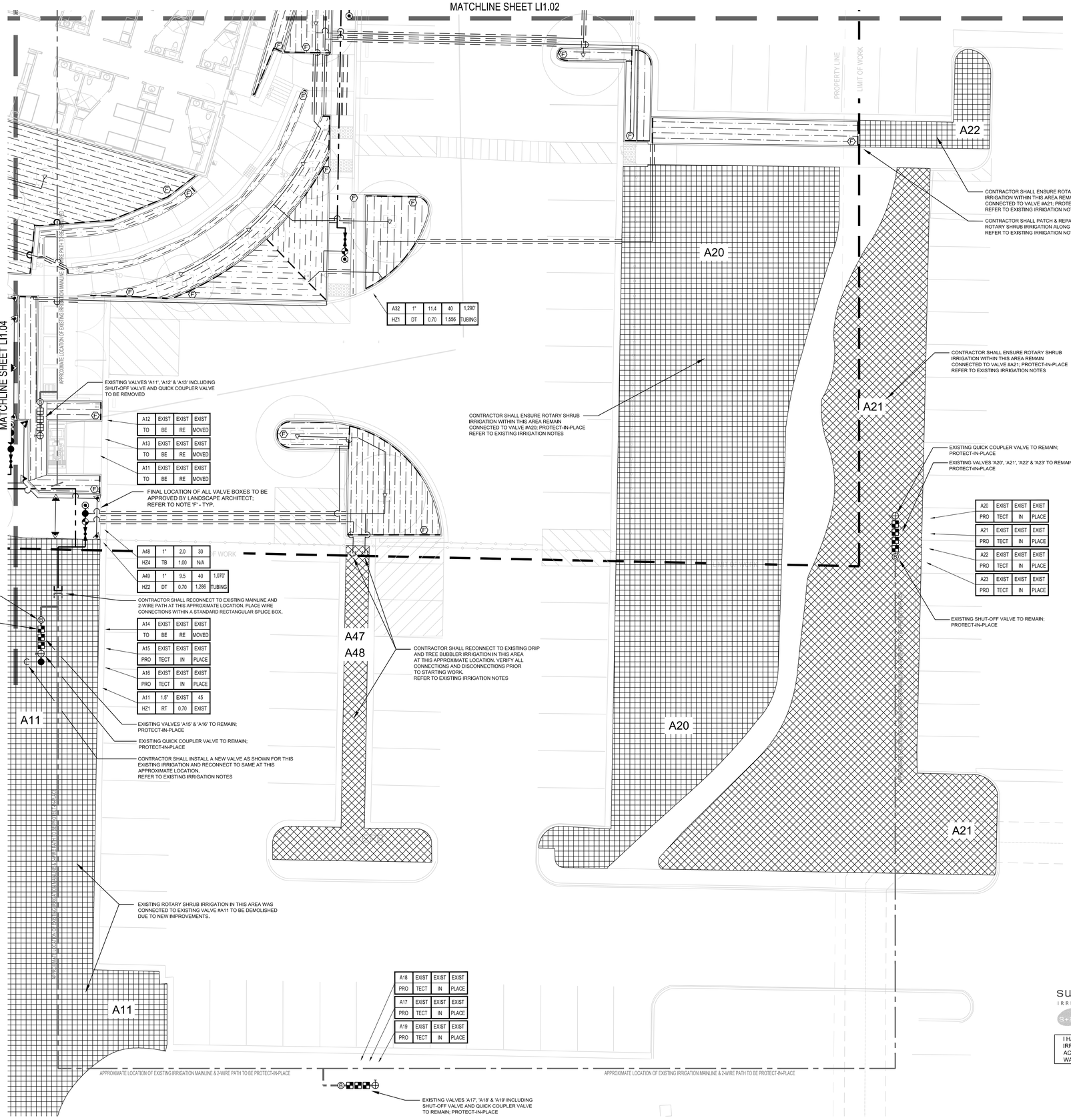
Drawing Title:
LANDSCAPE IRRIGATION PLAN

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EXISTING IRRIGATION NOTES

NOTE 1:
CONTRACTOR SHALL MAINTAIN EXISTING MAINLINES IN WORKING ORDER. COORDINATE ALL INTERRUPTIONS OF OPERATION OF THE EXISTING IRRIGATION TO A MINIMUM. COORDINATE ALL INTERRUPTIONS WITH THE OWNER'S REPRESENTATIVE.

NOTE 2:
CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING IRRIGATION EQUIPMENT DAMAGED DURING CONSTRUCTION AND IF DAMAGED, SHALL REPLACE WITH SAME MANUFACTURER AND MODEL.

NOTE 3:
ANY EXISTING IRRIGATION CONTROL VALVES CONNECTED TO EXISTING CONTROLLER SHALL BE RECONNECTED TO EXISTING CONTROLLER. CONFIRM PROPER CONTROLLER OPERATION AND INSTALLATION WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK AND UPON COMPLETION OF WORK.

NOTE 4:
CONTRACTOR SHALL CONFIRM THE EXISTING CONTROLLER MAKE AND MODEL AND SHALL CONFIRM THAT SAID CONTROLLER HAS ADEQUATE OPEN STATIONS TO OPERATE ANY ADJUSTED AND ALL PROPOSED IRRIGATION SYSTEM MODIFICATIONS. NOTIFY OWNER'S AUTHORIZED REPRESENTATIVE SHOULD ANY DISCREPANCIES BE NOTED.

NOTE 5:
CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR/MODIFICATION/REROUTING OF ALL ADJACENT IRRIGATION SYSTEM EQUIPMENT THAT IS AFFECTED BY NEW CONSTRUCTION IMPROVEMENTS. CONTRACTOR SHALL REPAIR SAID SYSTEMS TO A LIKE NEW MANNER, PROVIDING NO LESS THAN 100% OF HEAD RADIUS COVERAGE IN ALL AREAS WITH SYSTEM LAYOUT AS APPROVED BY OWNER'S AUTHORIZED REPRESENTATIVE. CONTRACTOR SHALL CONFIRM ALL AREAS REQUIRING MODIFICATION WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO BIDDING WORK AND PRIOR TO COMMENCING WORK.

NOTE 6:
CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE REMOVAL AND DISPOSAL OF ALL EXISTING IRRIGATION EQUIPMENT AFFECTED BY THE NEW CONSTRUCTION IMPROVEMENTS, IF NECESSARY. CONTRACTOR SHALL VERIFY ALL EQUIPMENT TO BE REMOVED AND DISPOSED OF IN FIELD PRIOR TO BIDDING WORK AND PRIOR TO COMMENCING WORK.

NOTE 7:
CONTRACTOR SHALL FIELD VERIFY DEPTH AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO BIDDING WORK AND AGAIN PRIOR TO COMMENCING WORK. VERIFICATION SHALL BE DOCUMENTED AND DELIVERED TO OWNER'S REPRESENTATIVE.

NOTE 8:
CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT OF ALL SCH. 40 PVC SLEEVING UNDER PAVING, WALLS AND CURBS AT NO LESS THAN 24" BELOW GRADE AND NO LESS THAN 2X DIAMETER OF IRRIGATION PIPE IN AREAS WHERE PIPE CROSSING WILL OCCUR. WHEN PIPE SIZE IS NOT AVAILABLE USE 6" SLEEVING MATERIAL. CONFIRM CROSSINGS WITH OWNER'S REPRESENTATIVE PRIOR TO PAVING AND HARDSCAPE CONSTRUCTION.

NOTE 9:
EXISTING IRRIGATION IN THIS AREA SHALL BE PROTECTED IN PLACE FOR CONTINUED USE. CONTRACTOR SHALL VERIFY THE EXTENT OF THE EXISTING SYSTEM AND MAKE ADJUSTMENTS TO CAP OFF OR MODIFY THE EXITING SYSTEM TO MEET THE NEW LANDSCAPE CONDITION IF NECESSARY.

NOTE 10:
CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING WITHIN THE DRIPLINE OF EXISTING TREES. NO MECHANICAL TRENCHING WITHIN THE DRIPLINE OF THE EXISTING TREE WILL BE ALLOWED. CONTRACTOR SHALL REFER TO ARBORIST REPORT FOR ADDITIONAL PRECAUTIONS REQUIRED FOR THE EXISTING TREES. VERIFY ALL LAYOUT IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE.

NOTE 11:
CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING BACKFLOW DEVICE AND TESTING FOR PROPER OPERATION. SHOULD BACKFLOW DEVICE BE INOPERABLE OR NOT IN PLACE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF SAID BACKFLOW DEVICE. CONFIRM ANY DISCREPANCIES WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO BIDDING WORK AND PRIOR TO COMMENCING WORK.

NOTE 12:
CONTRACTOR SHALL ADD CHECK VALVES AS NECESSARY TO PREVENT LOW HEAD DRAINAGE.

IRRIGATION NOTES

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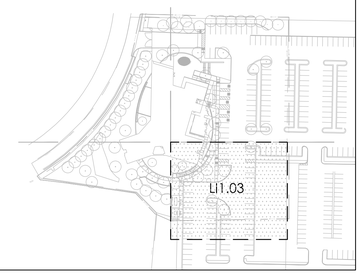
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0 5' 10' 20'
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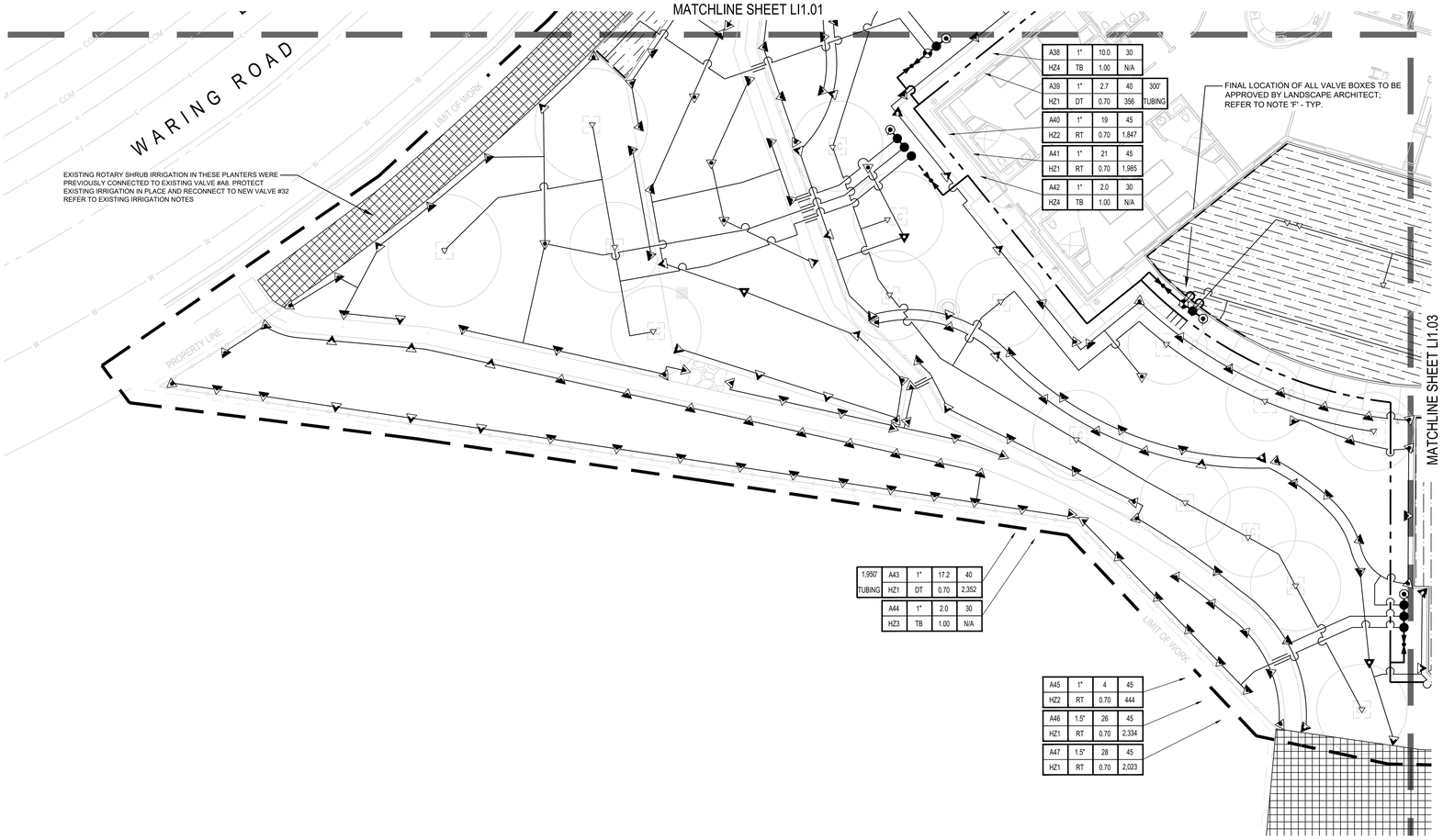
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LANDSCAPE
IRRIGATION PLAN

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EXISTING IRRIGATION NOTES

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NOTE 8:
CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT OF ALL SCH. 40 PVC SLEEVING UNDER PAVING, WALLS AND CURBS AT NO LESS THAN 24" BELOW GRADE AND NO LESS THAN 2X DIAMETER OF IRRIGATION PIPE IN AREAS WHERE PIPE CROSSING WILL OCCUR. WHEN PIPE SIZE IS NOT AVAILABLE USE 6" SLEEVING MATERIAL. CONFIRM CROSSINGS WITH OWNER'S REPRESENTATIVE PRIOR TO PAVING AND HARDSCAPE CONSTRUCTION.

NOTE 9:
EXISTING IRRIGATION IN THIS AREA SHALL BE PROTECTED IN PLACE FOR CONTINUED USE. CONTRACTOR SHALL VERIFY THE EXTENT OF THE EXISTING SYSTEM AND MAKE ADJUSTMENTS TO CAP OFF OR MODIFY THE EXITING SYSTEM TO MEET THE NEW LANDSCAPE CONDITION IF NECESSARY.

NOTE 10:
CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING WITHIN THE DRIPLINE OF EXISTING TREES. NO MECHANICAL TRENCHING WITHIN THE DRIPLINE OF THE EXISTING TREE WILL BE ALLOWED. CONTRACTOR SHALL REFER TO ARBORIST REPORT FOR ADDITIONAL PRECAUTIONS REQUIRED FOR THE EXISTING TREES. VERIFY ALL LAYOUT IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE.

NOTE 11:
CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING BACKFLOW DEVICE AND TESTING FOR PROPER OPERATION. SHOULD BACKFLOW DEVICE BE INOPERABLE OR NOT IN PLACE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF SAID BACKFLOW DEVICE. CONFIRM ANY DISCREPANCIES WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO BIDDING WORK AND PRIOR TO COMMENCING WORK.

NOTE 12:
CONTRACTOR SHALL ADD CHECK VALVES AS NECESSARY TO PREVENT LOW HEAD DRAINAGE.

IRRIGATION NOTES

NOTE A:
THESE PLANS ARE DIAGRAMMATIC, THE MAINLINE AND RELATED IRRIGATION EQUIPMENT IS SHOWN WITHIN THE PAVING FOR CLARITY ONLY. THE ACTUAL LOCATION OF MAINLINE AND RELATED IRRIGATION EQUIPMENT SHALL BE WITHIN PLANTER AND A MINIMUM OF 18" OFF ADJACENT HARDSCAPE AND OTHER OBSTACLES, TYPICAL.

NOTE B:
CONTRACTOR SHALL ADJUST ALL HEADS AS REQUIRED TO ACCOMMODATE ANY VERTICAL OBSTRUCTIONS THAT MAY OCCUR IN THE LANDSCAPE, INCLUDING BUT NOT LIMITED TO LIGHT POLES, FIRE HYDRANTS, TREES, ETC. WHEN A SLIGHT RELOCATION OF THE HEAD IS NOT SUFFICIENT TO CLEAR THE OBSTACLE, OR IF IT NEGATIVELY AFFECTS THE COVERAGE, AN ADDITIONAL HEAD SHALL BE INSTALLED TO PLACE ONE HEAD ON EITHER SIDE OF THE OBSTACLE. THE NOZZLES OF THESE TWO HEADS SHALL HAVE ARC PATTERNS THAT ADD UP TO THE ORIGINAL ARC PATTERN OF THE HEAD INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY ALL HEAD LAYOUT WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

NOTE C:
THESE PLANS ARE DIAGRAMMATIC, TREE BUBBLERS AND LATERAL LINES ARE SHOWN WITHIN THE PAVING FOR CLARITY ONLY. THE ACTUAL LOCATIONS SHALL BE WITHIN THE PLANTER. THE TREE BUBBLERS SHALL BE ALIGNED WITH TREES AS SHOWN ON THE PLANTING PLANS, AND AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE. THE CONTRACTOR SHALL CONFIRM ALL LAYOUT IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

NOTE F:
THE ACTUAL CONTRACTOR PROPOSED LOCATIONS FOR THE VARIOUS IRRIGATION EQUIPMENT LISTED BELOW SHALL BE REVIEWED AND APPROVED PRIOR TO INSTALLATION. **CONTRACTOR SHALL SUBMIT TO THE OWNER AND LANDSCAPE ARCHITECT A SHOP DRAWING FOR VALVE BOX LAYOUTS PRIOR TO INSTALLATION. THE SHOP DRAWING SHALL BE PREPARED TO THE SATISFACTION OF THE OWNER AND LANDSCAPE ARCHITECT.** SHOP DRAWINGS MUST INCLUDE LOCATIONS FOR THE FOLLOWING ITEMS: 1) POINT OF CONNECTION (INCLUDING WATER POC, BACKFLOW DEVICES, MASTER CONTROL VALVES, FLOW SENSORS, ETC.), 2) ISOLATION VALVES, 3) AUTOMATIC REMOTE CONTROL VALVES (INDICATE STATION NUMBER AND SIZE), 4) QUICK COUPLING VALVES, 5) DRIP AIR RELIEF AND/OR FLUSH VALVES, 6) IRRIGATION CONTROLLER(S), 7) RELATED EQUIPMENT (AS MAY BE DIRECTED). EACH PIECE OF AFOREMENTIONED EQUIPMENT SHALL HAVE IT'S LOCATION INCLUDED ON THE SHOP DRAWINGS; LOCATIONS OF THIS EQUIPMENT SHALL BE INDICATED WITH TWO DIMENSIONS BASED FROM TWO PERMANENT POINTS OF REFERENCE [SUCH AS BUILDINGS, SIDEWALKS, CURBS, STREETLIGHTS, HYDRANTS, ETC.]. WHERE MULTIPLE COMPONENTS ARE INSTALLED WITH NO REASONABLE REFERENCE POINT BETWEEN THE COMPONENTS, DIMENSIONING MAY BASED OFF OF OTHER IRRIGATION EQUIPMENT THAT HAS BEEN DEFINED BY TWO PERMANENT POINTS. ALL SHOP DRAWING IRRIGATION SYMBOLS SHALL BE CLEARLY SHOWN AND SHALL MATCH THE SYMBOLS SHOWN ON THE IRRIGATION LEGEND OF THE DRAWINGS. CONTRACTOR SHALL INSTALL ALL VALVE BOXES AND RELATED EQUIPMENT PER THE OWNER APPROVED SHOP DRAWINGS. ONCE SHOP DRAWING LOCATIONS ARE APPROVED, THE LANDSCAPE ARCHITECT OR OWNER'S AUTHORIZED REPRESENTATIVE WILL ALLOW NO ADJUSTMENTS TO THE APPROVED VALVE BOX PLACEMENT WITHOUT PRIOR WRITTEN ACCEPTANCE.

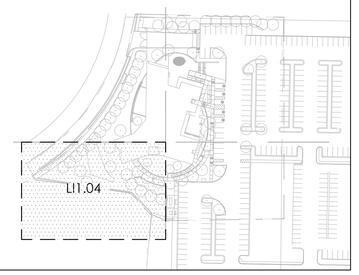
NOTE G:
AS BUILT DRAWINGS WERE NOT AVAILABLE DURING THE PRODUCTION OF THESE IRRIGATION DRAWINGS. EXACT MAINLINE AND WIRE ROUTING THROUGHOUT THE SITE IS UNKNOWN AND THE RECONNECTION LOCATIONS SHOWN ON THE PLAN ARE ASSUMPTIONS MADE BY THE DESIGNER BASED ON THE EXISTING IRRIGATION VALVE LOCATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE THE EXACT MAINLINE AND WIRE RECONNECTION LOCATIONS IN THE FIELD AND ENSURE ALL EXISTING VALVES LOCATED INSIDE AND OUTSIDE THE LIMIT OF WORK REMAIN CONNECTED TO THE IRRIGATION SUPPLY LINE AND CONTROL WIRES FOR FUTURE USE.

PRIOR TO THE DEMOLITION PHASE, IT IS RECOMMENDED THE CONTRACTOR TURN-ON EACH IRRIGATION CONTROL VALVE WITHIN THE SCOPE OF WORK AND ADJACENT TO THE SCOPE OF WORK AND DOCUMENT EACH AREA BEING SERVED BY THESE EXISTING VALVES. ALL EXISTING "PROTECTED-IN-PLACE" IRRIGATION WILL NEED TO REMAIN CONNECTED TO THEIR VALVES AND REMAIN WIRED TO THE CONTROLLER FOR CONTINUED FUTURE OPERATION. ALL EXISTING VALVES WIRED BACK TO THEIR EXISTING CONTROLLERS WILL NEED TO REMAIN WIRED TO SAID CONTROLLERS. CONTRACTOR SHALL USE THE EXISTING CONTROL WIRES FOR ALL EXISTING VALVES BEING REPLACED WITH NEW REMOTE CONTROL VALVE ASSEMBLIES. ANY MAINLINE OR WIRES DAMAGED DURING DEMO/CONSTRUCTION WILL NEED TO BE REPLACED WITH NEW AND RECONNECTED FOR CONTINUED FUTURE OPERATION OF THE EXISTING AND NEWLY DESIGNED IRRIGATION SYSTEM.

sweeney + associates
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I HAVE COMPLIED WITH THE CRITERIA OF THE IRRIGATION GUIDELINES AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN

0 5' 10' 20'
1"=10'-0"
NORTH



Tri-City Medical Center

Tri-City Medical Center Psychiatric Health Facility

4002 Vista Way
Oceanside, CA 92056

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GroundLevelSD.com

Rev.	Description	Date
	ISSUE FOR OSHPD SUBMITTAL	19 NOV 2020
	AGENCY APPROVAL	

FACILITY #: 12372
OSHPD #:

ARCHITECT SEAL

CONSULTANT SEAL

REGISTERED LANDSCAPE ARCHITECT
BRAD LENARTH
4470
SIGNATURE
DATE 9-11-20
STATE OF CALIFORNIA

Drawing Title:
LANDSCAPE IRRIGATION PLAN

Issue Date: 11/19/2020
Project No.: 006240.00 Checked by:

LI1.04

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WATER EFFICIENT LANDSCAPE WORKSHEET

This worksheet is filled out by the project applicant and it is a required element of the Landscape Documentation Package

Project Name: Tri-City Medical Center

Project Address: 4002 Vista Way, Oceanside, CA 92056

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Reference Evapotranspiration (ETo) 43.0 In./Yr. **Residential Project?** No

Hydrozone # / Planting Description[a]	Plant Factor	Irrigation Method[b]	Irrigation Efficiency (IE)[c]	ETAF (PF / IE)	Landscape Area (Sq. Ft.)	ETAF x Area	Estimated Total Water Use (ETWU)[d]
Regular Landscape Areas							
1. Low Water Use Plantings	0.20	Drip	0.81	0.25	9,957	2,489	66,363
2. Low Water Use Plantings	0.20	Overhead	0.75	0.27	12,245	3,306	88,142
3. Moderate Water Use Plantings	0.40	Drip	0.81	0.50	7,047	3,524	93,937
4. Moderate Water Use Plantings	0.40	Overhead	0.75	0.54	2,291	1,237	32,982
5. High Water Use Plantings	0.70	Drip	0.81	0.87	759	660	17,604
6. High Water Use Plantings	0.70	Overhead	0.75	0.94	1,170	1,100	29,321
				Totals:	**33,469**	**12,316**	
Special Landscape Areas							
				Totals:	**0**	**0**	
				Estimated Total Water Use (ETWU) Total:			**328,349**
				Maximum Applied Water Allowance (MAWA)[e]:			**401,528**

[a] **Hydrozone # / Planting Description** — E.g. 1.) Front Lawn; 2.) Low Water Use Plantings; 3.) Medium Water Use Plantings

[b] **Irrigation Method** — *Overhead Spray of Drip*

[c] **Irrigation Efficiency** — *0.75 for Spray; 0.81 for Drip*

[d] ***ETWU (Annual Gallons Required)*** *= ETo x 0.62 x ETAF x Area*
Where 0.62 is a conversion factor that converts acre-inches/acre/year to gallons/square foot/year.

[e] ***MAWA (Annual Gallons Allowed)*** *= ETo x 0.62 x [(ETAF x LA) + ((1 - ETAF) x SLA)]*
Where 0.62 is a conversion factor that converts acre-inches/acre/year to gallons/square foot/year, LA is the total landscape area in square feet, SLA is the total special landscape area in square feet, and ETAF is 0.55 for residential projects and 0.45 for non-residential projects.

Evapotranspiration Adjustment Factor (ETAF) Calculations

This non-residential project complies with the WELO and its average ETAF is less than **0.45**

Regular Landscape Areas	
Total ETAF x Area	12,316
Total Area	33,469
Average ETAF	**0.37**

All Landscape Areas	
Total ETAF x Area	12,316
Total Area	33,469
Average ETAF	**0.37**

WATER PRESSURE LOSS CALCULATIONS

WATER METER NUMBER		WATER METER SIZE (inches)	
HYDRAULIC GRADE LINE (FT)		WATER METER ELEVATION (FT)	
ELEVATION DIFFERENCE (FT)		STATIC PRESSURE (PSI)	75.0
REMOTE CONTROL VALVE #	A35	REMOTE CONTROL VALVE SIZE (In.)	1.50
R.C.V. DEMAND (GPM)	32	TOTAL DEMAND (GPM)	32
HIGHEST HEAD SERVED (FT)		STATIC PRESSURE AT HIGHEST HEAD	

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PRESSURE LOSS CALCULATION IS PROVIDED FOR THIS PROJECT BY SWEENEY & ASSOCIATES, INC. UNAUTHORIZED USE BY ANY OTHER PERSON, COMPANY OR PROJECT IS FORBIDDEN WITHOUT WRITTEN PERMISSION.

SIZE (Inches)	DESCRIPTION	FLOW	#	LOSS	
2.00	ISOLATION VALVES (BALL TYPE)	32	9	2.00	PSI
2.00	410 FEET OF MAINLINE: CL. 315 PVC	32	10	3.49	PSI
2.00	5 - 90 DEGREE ELBOWS	32	13	0.47	PSI
1.50	REMOTE CONTROL VALVE ASSEMBLY	32	14	2.94	PSI
10%	LATERAL LINE LOSSES	32	15	4.50	PSI
20%	FITTING LOSS (IN ADDITION TO ELBOWS SHOWN)	N/A	16	0.70	PSI
1.00	ELEVATION CHANGE (P.O.C. TO HIGHEST HEAD)	N/A	17	0.43	PSI
TOTAL SYSTEM PRESSURE LOSS (SUM OF #1 THRU #17)			18	14.5	PSI
PRESSURE REQUIRED AT HEAD (OPERATING PRESSURE)			19	45.0	PSI
TOTAL PRESSURE REQUIRED (SUM OF #18 AND #19)			20	59.5	PSI
STATIC WATER PRESSURE (FROM ABOVE)			21	75.0	PSI
RESIDUAL PRESSURE (SUBTRACT #20 FROM #21)			22	15.5	PSI
SET PRV OR MCV AT (#20 PLUS 10 PSI)			23	N/A	PSI
PRESSURE BOOST, IF REQUIRED (SET TO ACHIEVE 20 PSI RESIDUAL)			24	N/A	PSI

IRRIGATION NOTES

1. ALL LOCAL MUNICIPAL AND STATE LAWS, RULES AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR.
2. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE.
3. THE CONTRACTOR SHALL OBTAIN THE PERTINENT ENGINEERING OR ARCHITECTURAL PLANS BEFORE BEGINNING WORK.
4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK INDICATED HEREIN BEFORE BEGINNING WORK.
5. THIS DESIGN IS DIAGRAMMATIC. ALL EQUIPMENT SHOWN IN PAVED AREAS IS FOR DESIGN CLARITY ONLY AND IS TO BE INSTALLED WITHIN PLANTING AREAS.
6. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY EQUIPMENT AS SHOWN ON THE PLANS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN CONDITIONS EXIST THAT WERE NOT EVIDENT AT THE TIME THESE PLANS WERE PREPARED. ANY SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE PRIOR TO ANY WORK OR THE IRRIGATION CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY FIELD CHANGES DEEMED NECESSARY BY THE OWNER.
7. INSTALL ALL EQUIPMENT AS SHOWN IN THE DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH LOCAL CITY, COUNTY AND STATE REQUIREMENTS FOR BOTH EQUIPMENT AND INSTALLATION.
8. ACTUAL LOCATION FOR THE INSTALLATION OF THE EXISTING BACKFLOW PREVENTER AND THE EXISTING AUTOMATIC CONTROLLER IS TO BE FIELD VERIFIED WITH THE OWNER'S AUTHORIZED REPRESENTATIVE.
9. ALL PIPE UNDER PAVED AREAS TO BE INSTALLED IN SLEEVING TWICE THE DIAMETER OF THE PIPE CARRIED. SEE LEGEND FOR TYPE. ALL WIRE UNDER PAVED AREAS TO BE INSTALLED IN A SCH. 40 SLEEVE THE SIZE REQUIRED TO EASILY PULL WIRE THROUGH. ALL SLEEVES TO BE INSTALLED WITH A MINIMUM DEPTH AS SHOWN ON THE SLEEVING DETAILS. SLEEVES TO EXTEND AT LEAST 12" PAST THE EDGE OF THE PAVING.
10. ALL QUICK COUPLER AND REMOTE CONTROL VALVES TO BE INSTALLED IN SHRUB OR GROUND COVER AREAS WHERE POSSIBLE. ALL QUICK COUPLER AND REMOTE CONTROL VALVES TO BE INSTALLED AS SHOWN ON THE INSTALLATION DETAILS. INSTALL ALL QUICK COUPLER AND REMOTE CONTROL VALVES WITHIN 18" OF HARDSCAPE.
11. ALL HEADS ARE TO BE INSTALLED WITH THE NOZZLE, SCREEN AND ARCS SHOWN ON THE PLANS. ALL HEADS ARE TO BE ADJUSTED TO PREVENT OVERSPRAY ONTO BUILDINGS, WALLS, FENCES AND HARDSCAPE. THIS INCLUDES, BUT NOT LIMITED TO, ADJUSTMENT OF DIFFUSER PIN OR ADJUSTMENT SCREW, REPLACEMENT OF PRESSURE COMPENSATING SCREENS, REPLACEMENT OF NOZZLES WITH MORE APPROPRIATE RADIUS UNITS AND THE REPLACEMENT OF NOZZLES WITH ADJUSTABLE ARC UNITS.
12. CONTRACTOR SHALL INSTALL ADDITIONAL CHECK VALVES TO HEADS AND LATERALS AS REQUIRED TO PREVENT LOW HEAD DRAINAGE.
13. THE CONTRACTOR SHALL USE PROPER GROUNDING TECHNIQUES FOR GROUNDING THE CONTROLLER AND RELATED EQUIPMENT PER MANUFACTURERS SPECIFICATIONS. SWEENEY AND ASSOCIATES RECOMMENDS MEASURING FOR PROPER GROUND AT LEAST ONCE ANNUALLY, AND NECESSARY ADJUSTMENTS MADE TO COMPLY WITH MANUFACTURER SPECIFICATIONS.
14. THE CONTRACTOR IS REQUIRED TO CONTACT DIGALERT OR 811 A MINIMUM OF TWO (2) DAYS PRIOR TO THE START OF ANY EXCAVATIONS ON THE PROJECT AND SPECIFICALLY PRIOR TO THE INSTALLATION OF ANY GROUNDING RODS. DIAL 811 OR LOG ONTO WWW.DIGALERT.ORG TO START A PROJECT TICKET. DIGALERT AND 811 IS A FREE SERVICE PROVIDED TO THE PROJECT. FAILURE TO CONTACT AND HAVE THE EXISTING UTILITIES IDENTIFIED, LOCATED AND MARKED SHALL MAKE THE CONTRACTOR SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGES.

IRRIGATION CONTROLLER RUN TIMES

POC or Controller		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total / Avg.
EX. A	ETo / Month (Inches):	2.20	2.70	3.40	3.70	4.90	4.60	4.60	5.10	4.10	3.30	2.40	2.00	**43.00**
	ETo / Day (Inches):	0.07	0.10	0.11	0.12	0.16	0.15	0.15	0.16	0.14	0.11	0.08	0.06	**0.12**
	Irrigation Days / Week:	2	2	3	3	5	5	6	6	5	3	2	2	

Plant / Irrig. Type	AKc	Pr Rate	IE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
Low Shrubs	0.20	0.70	0.75	5.7	7.7	5.8	6.6	5.1	4.9	4.0	4.4	4.4	5.7	6.4	5.2	Min./Day/Zone
Rotory Heads	**Number of Zones:**		6	**34.1**	**46.3**	**35.1**	**39.5**	**30.3**	**29.4**	**23.7**	**26.3**	**26.2**	**34.1**	**38.4**	**31.0**	**Total Min./Day**
Low Shrubs	0.20	0.70	0.81	5.3	7.1	5.4	6.1	4.7	4.5	3.7	4.1	4.0	5.3	5.9	4.8	Min./Day/Zone
Drip Tubing	**Number of Zones:**		6	**31.5**	**42.9**	**32.5**	**36.5**	**28.1**	**27.3**	**22.0**	**24.4**	**24.3**	**31.5**	**35.6**	**28.7**	**Total Min./Day**
Moderate Shrubs	0.40	0.70	0.81	10.5	14.3	10.8	12.2	9.4	9.1	7.3	8.1	8.1	10.5	11.9	9.6	Min./Day/Zone
Drip Tubing	**Number of Zones:**		3	**31.5**	**42.9**	**32.5**	**36.5**	**28.1**	**27.3**	**22.0**	**24.4**	**24.3**	**31.5**	**35.6**	**28.7**	**Total Min./Day**
Moderate Shrubs	0.40	0.70	0.75	11.4	15.4	11.7	13.2	10.1	9.8	7.9	8.8	8.7	11.4	12.8	10.3	Min./Day/Zone
Rotory Heads	**Number of Zones:**		2	**22.7**	**30.9**	**23.4**	**26.3**	**20.2**	**19.6**	**15.8**	**17.5**	**17.5**	**22.7**	**25.6**	**20.6**	**Total Min./Day**
High Shrubs	0.70	0.70	0.81	18.4	25.0	19.0	21.3	16.4	15.9	12.8	14.2	14.2	18.4	20.7	16.7	Min./Day/Zone
Drip Tubing	**Number of Zones:**		1	**18.4**	**25.0**	**19.0**	**21.3**	**16.4**	**15.9**	**12.8**	**14.2**	**14.2**	**18.4**	**20.7**	**16.7**	**Total Min./Day**
Moderate Shrubs	0.70	0.70	0.75	19.9	27.0	20.5	23.0	17.7	17.2	13.8	15.4	15.3	19.9	22.4	18.1	Min./Day/Zone
Rotary Heads	**Number of Zones:**		1	**19.9**	**27.0**	**20.5**	**23.0**	**17.7**	**17.2**	**13.8**	**15.4**	**15.3**	**19.9**	**22.4**	**18.1**	**Total Min./Day**
Low Trees	0.20	1.00	0.75	4.0	5.4	4.1	4.6	3.5	3.4	2.8	3.1	3.1	4.0	4.5	3.6	Min./Day/Zone
Bubblers	**Number of Zones:**		1	**4.0**	**5.4**	**4.1**	**4.6**	**3.5**	**3.4**	**2.8**	**3.1**	**3.1**	**4.0**	**4.5**	**3.6**	**Total Min./Day**
Moderate Trees	0.40	1.00	0.75	7.9	10.8	8.2	9.2	7.1	6.9	5.5	6.1	6.1	7.9	9.0	7.2	Min./Day/Zone
Bubblers	**Number of Zones:**		6	**47.7**	**64.8**	**49.1**	**55.3**	**42.5**	**41.2**	**33.2**	**36.9**	**36.7**	**47.7**	**53.8**	**43.4**	**Total Min./Day**
	Total Number of Zones:		**26**	210	285	216	243	187	181	146	162	162	210	236	191	Total Min./Day
	Total Controller Run Time in Hours:			**3.50**	**4.75**	**3.60**	**4.05**	**3.12**	**3.02**	**2.44**	**2.70**	**2.69**	**3.50**	**3.94**	**3.18**	**Total Hrs./Day**
				JAN	**FEB**	**MAR**	**APR**	**MAY**	**JUN**	**JUL**	**AUG**	**SEP**	**OCT**	**NOV**	**DEC**	

Note: **These schedules are intended only for compliance with local municipal codes and the water efficient landscape ordinance. These calculations represent the MAXIMUM REASONABLE run times and are used to ensure that all irrigation may be completed during the specific watering window allowed. These schedules do not include rainfall, site soil types, specicic exposures (shade versus sun), actual irrigation days, or specific slope position. It is solely the responsibility of the irrigation contractor to program the controller as required to apply the correct amount of irrigation water for the landscape. All smart controllers shall be programmed using the specified ET or weather sensing equipment, satellite provided ET data, soil moisture sensors, and rain shut off devices as required. Contractor shall provide a controller schedule inside the controller cabinet prior to final turnover of the project to the owner.**

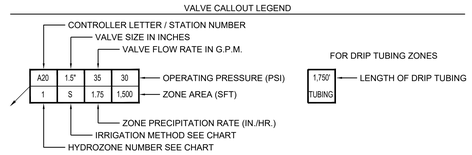
IRRIGATION MATERIAL LEGEND

(DESIGNED FOR FUTURE RECYCLED WATER)

SYMBOL Q T H F	MANUFACTURER	MODEL NO. / DESCRIPTION	FLOW RATE (GPM)	PSI	RADIUS	P.R. (TRI.)	DETAIL
	RAIN BIRD	RD-12-S-P45-F-NP 12" POP-UP SHRUB HEAD WITH R-VAN14 (Q/T/H) / R-VAN14-360 NOZZLES	.32, .42, .63, 1.27	45	14 FT	0.70 IN./HR.	A
	RAIN BIRD	RD-12-S-P45-F-NP 12" POP-UP SHRUB HEAD WITH R-VAN18 (Q/T/H) / R-VAN18-360 NOZZLES	.50, .62, 1.17, 1.85	45	18 FT	0.70 IN./HR.	A
	RAIN BIRD	RD-12-S-P45-F-NP 12" POP-UP SHRUB HEAD WITH R-VAN24 (Q/T/H) / R-VAN24-360 NOZZLES	.84, 1.16, 1.68, 3.48	45	24 FT	0.70 IN./HR.	A
	RAIN BIRD	RD-12-S-P45-F-NP 12" POP-UP SHRUB HEAD WITH R-VAN-LCS / RCS / SST NOZZLES	.24, .24, .48	45	4X15 FT 4X30 FT	0.62 IN./HR.	A
▽	RAIN BIRD	RD-06-S-NP 6" POP-UP BUBBLER HEAD WITH A HUNTER MSBN-25Q STREAM BUBBLER NOZZLE EACH SYMBOL REPRESENTS TWO (2) BUBBLER TO PROVIDE A TOTAL OF TWO (2) BUBBLERS PER TREE OR PALM. PLACE THE BUBBLER HEADS SIX (6) INCHES FROM THE ROOT BALL OF THE TREE OR PALM AND ON OPPOSITE SIDES OF TREE OR PALM. ADJUST BUBBLER STREAMS TO WET THE ROOT BALL AND ADJACENT AMENDED SOIL WITHOUT HITTING THE TRUNK OF THE TREE OR PALM.	.25 (0.50 TOTAL)	30	1 FT	1.00 IN./HR.	A,B
	EXISTING	EXISTING IRRIGATION TO REMAIN; PROTECT IN PLACE					N/A
	NETAFIM	SUB-SURFACE DRIP TUBING AS DESCRIBED BELOW: TLHCVXR-RWP5-12 SUBSURFACE DRIP TUBING (PURPLE EXTERIOR COLOR) WITH 0.53 GPH, PRESSURE COMPENSATING EMITTERS INTERNALLY INSTALLED IN THE DRIP TUBING AT 12" O.C. SPACING. DRIP TUBING SHALL BE EQUIPPED WITH COPPER OXIDE INFUSED EMITTERS AND A PHYSICAL BARRIER TO PREVENT ROOT INTRUSION INTO THE DRIP EMITTER. DRIP EMITTERS SHALL BE CONTINUOUS FLUSHING TYPE AND EQUIPPED WITH A CHECK VALVE AND ANTI-SIPHON FEATURE. DRIP TUBING SHALL BE INSTALLED 2" BELOW FINISHED SOIL GRADE (NOT COUNTING MULCH) AND IN PARALLEL ROWS A MAXIMUM OF 16" ON CENTER. THE PERIMETER ROW OF DRIP TUBING SHALL BE INSTALLED A MAXIMUM OF 4" FROM THE EDGE OF ANY HARDSCAPE OR TURF EDGE. ALL SUBSEQUENT INTERIOR ROWS SHALL BE ADJUSTED TO PROVIDE AN EVEN SPACING ACROSS THE PLANTER WITHOUT EXCEEDING 16" MAXIMUM SPACING. INSTALL 9" PVC COATED GALVANIZED TUBING STAKES A MAXIMUM OF FIVE (5) FEET ON CENTER ALONG THE LENGTH OF THE TUBING. TUBING STAKES SHALL BE MODEL #GDTS140900 AS MANUFACTURED BY GPH IRRIGATION PRODUCTS (866) 582-9684. THE HATCH PATTERN SYMBOLS ON THE PLANS REPRESENT THE APPROXIMATE DIRECTION AND SPACING OF THE DRIP TUBING ROWS, SEE SPACING REQUIREMENTS ABOVE AND IN DETAILS.	0.53 GPH / EMITTER	30	N/A	0.70 IN./HR.	C,D
NO SYMBOL	NETAFIM	CONNECTION BETWEEN TLHCVXR5-12 DRIP TUBING AND PVC SUPPLY AND DISCHARGE HEADERS SHALL BE MADE USING NETAFIM TL SERIES DRIP LINE BARBED FITTINGS, SCH. 40 PVC THREADED FITTINGS, SCH. 80 NIPPLES AND FLEXIBLE NIPPLES. WHEN THE CONNECTION IS AT THE END RUN OF THE TUBING USE A 1/2" SCH. 40 PVC THREADED 90° ELBOW, A 1/2" X LENGTH AS REQUIRED SCH. 80 PVC THREADED NIPPLE, A 1/2" X 6" MIPT X FIPT FLEXIBLE NIPPLE, AND A TL050MA 17mm BARB X 1/2" MIPT ADAPTER FITTING. WHEN THE CONNECTION IS IN THE MIDDLE OF THE TUBING RUN USE A 1/2" SCH. 40 PVC THREADED TEE FITTING, A 1/2" X LENGTH AS REQUIRED SCH. 80 PVC THREADED NIPPLE, A 1/2" X 6" MIPT X FIPT FLEXIBLE NIPPLE, AND TWO (2) TL050MA 17mm BARB X 1/2" MIPT ADAPTERS. ALL END RUNS OF TUBING SHALL BE CONNECTED WITH A PVC DISCHARGE HEADER. FLEXIBLE NIPPLES SHALL BE MODEL #GFN050600 AS MANUFACTURED BY GPH IRRIGATION PRODUCTS (866) 582-9684.					C,D
NO SYMBOL	NETAFIM	TL SERIES 17mm BARBED FITTINGS FOR CONNECTIONS BETWEEN DRIP TUBING (TUBING-TO-TUBING ONLY). NO HEATING OF TUBING SHALL BE ALLOWED.					C,D
	AS APPROVED	PURPLE PVC SUPPLY AND DISCHARGE HEADERS SHALL BE PURPLE PVC LATERAL LINE PIPE (AS SHOWN BELOW), 1 1/4" MINIMUM SIZE WITH SCH. 40 PVC FITTINGS.					C,D
Ⓕ	GPH IRRIGATION/ RAIN BIRD	GDFN-R DRIP FLUSH / INDICATOR NOZZLE, PURPLE IN COLOR, INSTALLED ONTO A RAIN BIRD 1812 12" POP-UP SPRINKLER BODY (NO PRS OR CHECK VALVE), INSTALLED WITH A 1800-NP-CAP. THE FLUSH NOZZLE SHALL BE CLOSED FOR NORMAL OPERATION OF THE DRIP SYSTEM.					C,E
Ⓜ	EXISTING	EXISTING MASTER CONTROL VALVE TO BE PROTECTED-IN-PLACE; SHOWN FOR REFERENCE ONLY					N/A
Ⓕ	EXISTING	EXISTING FLOW SENSOR TO BE PROTECTED-IN-PLACE; SHOWN FOR REFERENCE ONLY					N/A
	LASCO	VXX101N-SC 2" SLO-CLOSE SCH. 80 PVC, TRUE-UNION BALL VALVE WITH SOLVENT WELD SOCKET CONNECTIONS, LINE SIZE PER MAINLINE. INSTALL INSIDE A 10" ROUND VALVE BOX.					F
	SIGNATURE	#7645 1" QUICK COUPLER VALVE WITH NON-POTABLE LOCKING VINYL COVER AND A LASCO G13S-218 SWING JOINT. INSTALL INSIDE A 10" ROUND VALVE BOX.					G
●	RAIN BIRD	XXX-PESBR-PRS-D PRESSURE REGULATING, PLASTIC REMOTE CONTROL VALVE (RCV), SIZE AS SHOWN (1", 1 1/2" AND 2" SIZES), SET PRS-D PRESSURE REGULATOR TO PROVIDE THE OPERATING PRESSURE OF THE SPRINKLER / BUBBLER HEAD AT THE HIGHEST OR FARTHEST HEAD ON THE CONTROL VALVE ZONE (MEASURE PSI AT HEAD). INSTALL THE RCV INSIDE A STANDARD RECTANGULAR VALVE BOX.					H
	RAIN BIRD	PLASTIC DRIP REMOTE CONTROL VALVE ASSEMBLY, SIZE AS SHOWN (1" AND 1 1/2" SIZES). COMPLETE WITH PLASTIC CONTROL VALVE, DRIP FILTER AND PRESSURE REGULATION; AS SHOWN BELOW BY SIZE: FOR 1" DRIP ZONES: 100-PESBR VALVE; A LCRBY-100D, 120 MESH WYE FILTER; AND A PSI-M40X-100 PRESSURE REGULATOR. IN A STD. RECT. BOX. FOR 1 1/2" DRIP ZONES: XCZ-150-LCDR PESBR VALVE, LCRBY-150D, AND A 1 1/2" 40PSI PRESSURE REGULATOR. IN A JUMBO RECTANGULAR BOX.					I
	EXISTING	EXISTING REMOTE CONTROL VALVE TO BE PROTECTED-IN-PLACE; SHOWN FOR REFERENCE ONLY					N/A
	EXISTING	EXISTING REMOTE CONTROL VALVE TO BE REMOVED DUE TO NEW IMPROVEMENTS					N/A
Ⓑ	EXISTING	EXISTING SHUT-OFF VALVE AT EXISTING POC AND EXISTING VALVE MANIFOLDS, REFER TO PLAN FOR MORE INFORMATION					N/A
	EXISTING	EXISTING QUICK COUPLER VALVE AT VALVE MANIFOLD, REFER TO PLAN FOR MORE INFORMATION					N/A
	EXISTING	EXISTING 75-STATION HUNTER ACC 2 2-WIRE DECODER IRRIGATION CONTROLLER TO REMAIN; PROTECT-IN-PLACE. ALL NEW AND EXISTING REMOTE CONTROL VALVES TO BE WIRED TO THIS CONTROLLER					N/A
NO SYMBOL	HUNTER	ICD-100/200/400/600 DECODER IN 1,2,4 & 6 STATION COUNTS. CONNECT ADJACENT RCV'S TO THE MULTIPLE STATION DECODER AS SHOWN IN THE DETAILS. OPEN STATIONS MAY OCCUR ON MULTIPLE STATION DECODERS. DO NOT RUN MORE THAN 100 FEET AWAY FROM ANY DECODER.					J,K,L
NO SYMBOL	HUNTER	ICD-SEN SENSOR DECODER FOR CONNECTION OF THE FLOW SENSOR TO THE TWO WIRE PATH. INSTALL SENSOR TO THE FLOW SENSOR WIRES AS REQUIRED.					J,K,L
	AS APPROVED	PURPLE (RECYCLED WATER) PVC PIPE 3/4" - 3" SCH. 40, SOLVENT WELD WITH SCH. 40 PVC FITTINGS, AS LATERAL LINES INSTALLED 12" BELOW FINISHED GRADE					M
	AS APPROVED	PURPLE (RECYCLED WATER) PVC PIPE 2" CL. 315, SOLVENT WELD WITH SCH. 80 PVC FITTINGS, AS MAINLINES INSTALLED 18" BELOW FINISHED GRADE					M
	EXISTING	EXISTING 2" IRRIGATION MAINLINE AND 2-WIRE PATH. REFER TO PLAN FOR FURTHER DIRECTION					N/A
	AS APPROVED	PURPLE PVC PIPE SCH. 40 AS SLEEVING, 2.5 TIMES THE DIAMETER OF PIPE OR WIRE BUNDLE CARRIED (2" MINIMUM SIZE) INSTALL ALL PIPE AND WIRE UNDER PAVING, HARDSCAPE, ETC. (OR AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE) INSIDE SLEEVES. SLEEVES UNDER PEDESTRIAN PAVING SHALL BE INSTALLED 24" BELOW FINISHED GRADE. SLEEVES UNDER VEHICULAR PAVING SHALL BE INSTALLED 36" BELOW FINISHED GRADE.					N
NO SYMBOL	LASCO	ALL FITTINGS USED WITH SOLVENT WELD MAINLINE PIPE SHALL BE SCH. 80 PVC FITTINGS, GRAY IN COLOR, AND SIZED TO MATCH THE MAINLINE PIPE. ALL FITTINGS USED WITH SOLVENT WELD LATERAL LINE PIPE SHALL BE SCH. 40 PVC, WHITE IN COLOR, AND SIZED TO MATCH THE LATERAL LINE PIPE. ALL THREADED PVC NIPPLES SHALL BE SCH. 80 PVC PIPE, DARK GRAY IN COLOR, WITH MOLDED THREADS.					N/A
NO SYMBOL	AS APPROVED	ALL SOLVENT WELD CONNECTIONS FOR BOTH MAINLINE AND LATERAL LINE SHALL BE MADE USING THE TWO-STEP PROCESS OF PRIMER AND SOLVENT CEMENT. PRIMER SHALL BE LOW VOC "PURPLE PRIMER". SOLVENT CEMENT SHALL BE LOW VOC, GRAY OR BLUE COLORED "MEDIUM BODIED" CEMENT. USE DAUBERS SIZED AT LEAST ONE-HALF THE SIZE OF THE LARGEST PIPE BEING JOINED. ALL SOLVENT CEMENTED JOINTS SHALL BE MADE PER THE PIPE AND FITTING MANUFACTURER'S RECOMMENDATIONS.					N/A
NO SYMBOL	AS APPROVED	ALL SOLVENT WELD MAINLINES ABOVE 2" IN SIZE SHALL HAVE CONCRETE THRUST BLOCKING INSTALLED AT ALL DIRECTIONAL CHANGES INCLUDING ELBOWS (45° AND 90°) AND TEES. MAINLINE PIPES UNDER 2" SIZE AND ALL LATERAL LINES DO NOT REQUIRE THRUST BLOCKING.					P
NO SYMBOL	AS APPROVED	11/4" SCH. 40 PVC, GRAY ELECTRICAL CONDUIT FOR FLOW SENSOR / MASTER VALVE WIRES OR CENTRAL CONTROL COMMUNICATION CABLE; PROVIDE PULL BOX AT A MAXIMUM OF 200 FEET ON CENTER FOR A 3 FOOT WIRE LOOP OR ANY SPLICES. INSTALL INSIDE A STANDARD RECTANGULAR VALVE BOX.					N/A
NO SYMBOL	PAIGE ELECTRIC	P7072D DIRECT BURIAL IRRIGATION CONTROL CABLE (TWO-WIRE PATH) WITH TWO, PARALLEL, PVC INSULATED, SOLID COPPER CONDUCTOR IRRIGATION CONTROL WIRES, #14UF SIZE, WITH A IMPREGNATED POLYETHYLENE, COLOR CODED JACKET. JACKET COLOR SHALL BE RED AND THE CONDUCTORS INSULATION SHALL BE RED AND BLACK. WHERE MULTIPLE CONTROLLERS ARE USED ON THE PROJECT, EACH CONTROLLER SHALL HAVE A CONTROL CABLE OF A DIFFERENT COLOR. THE CONTRACTOR SHALL ROUTE THE CONTROL CABLE FROM THE CONTROLLER ALONG THE MAINLINE IN ALL DIRECTIONS AWAY FROM THE CONTROLLER. LOOP THE CONTROL CABLE UP AND INTO EACH VALVE BOX ALONG THE MAINLINE, PROVIDING A 3 FOOT MINIMUM LOOP IN EACH VALVE BOX.					M,N,O
NO SYMBOL	GPH IRRIGATION	GDBRY6 DIRECT BURIAL, 100% SILICONE GEL, WATER-PROOF WIRE CONNECTORS FOR USE ON ALL WIRE SPLICES AND CONNECTIONS					O
NO SYMBOL	NDS (K.B.I.)	KSC-XXX-S SWING CHECK VALVE, LATERAL LINE SIZE, INSTALL ONE (1) ON THE DOWNSTREAM SIDE OF EACH RCV WHEN THE RCV IS LOWER THAN THE SPRINKLERS, BUBBLERS OR DRIP EMITTERS. INSTALL WITHIN SPRINKLER / BUBBLER / DRIP ZONES AS REQUIRED TO PREVENT LOW HEAD DRAINAGE.					N/A
NO SYMBOL	NDS (K.B.I.)	KC-XXX-S SPRING CHECK VALVE, LATERAL LINE SIZE, INSTALL ONE (1) ON THE DOWNSTREAM SIDE OF EACH RCV WHEN THE RCV IS HIGHER THAN THE SPRINKLERS, BUBBLERS OR DRIP EMITTERS. INSTALL WITHIN SPRINKLER / BUBBLER / DRIP ZONES AS REQUIRED TO PREVENT LOW HEAD DRAINAGE.					N/A
ⓢ	SPLICE BOX	INSTALL WIRE SPLICES & RECONNECTIONS WITHIN A STANDARD RECTANGULAR VALVE BOX - TYP.					Q
NO SYMBOL	RAIN BIRD	ALL VALVE BOXES SHALL BE VB SERIES, PLASTIC TYPE WITH OVERLAPPING LIDS. VALVE BOXES & LIDS SHALL BE PURPLE. ALL BOXES SHALL BE SECURED WITH A RAIN BIRD VB-LOCK-P PENTA HEAD BOLT, WASHER AND CLIP. BOXES SHALL BE AS SHOWN BELOW:					N/A

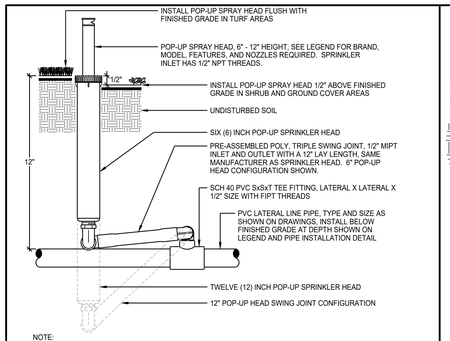
DESCRIPTION	SHRUB AREAS (PURPLE)
7" ROUND BOXES	VB-7RNDP
10" ROUND BOXES	VB-10RND-B BODY AND VB-10RNDP-L LID
STANDARD RECTANGULAR BOXES	VB-STD-B BODY AND VB-STDP-L LID
JUMBO RECTANGULAR BOXES	VB-JMB-B BODY AND VB-JMBP-L LID

VALVE CALLOUT LEGEND



HYDROZONE DESCRIPTION CHART			
NUMBER	DESCRIPTION OF THE HYDROZONE	WUCOLS	PLANT FACTOR

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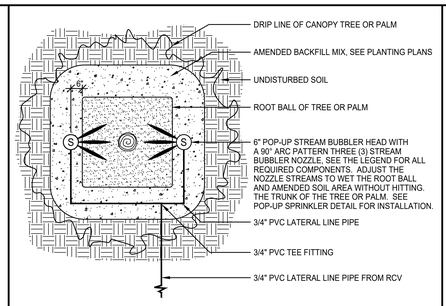
NOTE:
INSTALL SPRAY HEADS 4" FROM PAVING EDGE IN TURF AREAS.
INSTALL SPRAY HEADS 6" FROM PAVING EDGE IN SHRUB AND GROUND COVER AREAS.
INSTALL SPRAY HEADS 12" FROM THE FACE OF BUILDING WALLS OR WINDOWS.

INSTALL SPRAY HEADS PLUMB. ADJUST NOZZLE STREAM TO COVER THE LANDSCAPE AREA WITHOUT OVERSPRAY ONTO PAVING, FENCES, WALLS OR BUILDINGS.

SECTION VIEW - N.T.S.

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A POP-UP SPRAY HEAD / BUBBLER

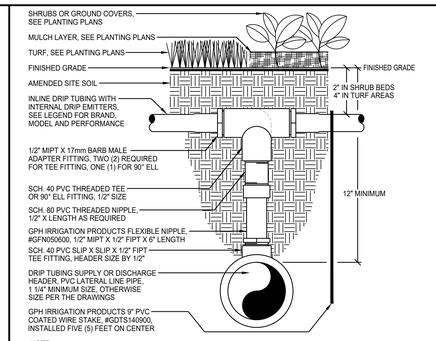


NOTE:
POSITION MSBN-50Q STREAM BUBBLER HEADS 6" FROM THE ROOT BALL.
POSITION MSBN-25Q STREAM BUBBLER HEADS 1" FROM THE ROOT BALL.

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B TREE BUBBLER LAYOUT

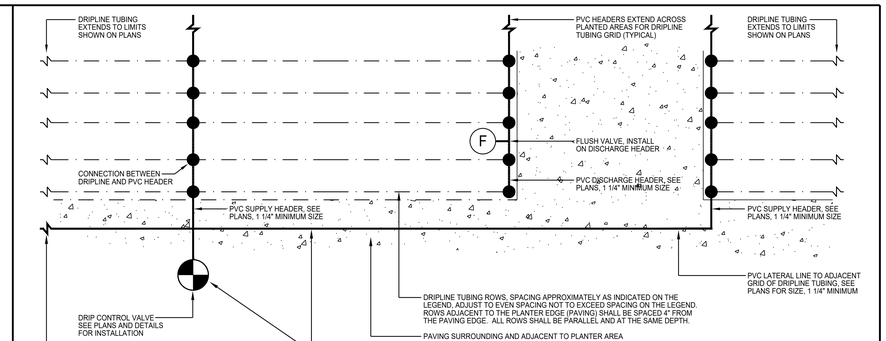


NOTE:
DRIP TUBING CONNECTION REQUIRED FOR ALL CONNECTIONS BETWEEN DRIP TUBING AND PVC HEADERS.
FOR CONNECTIONS AT END RUNS OF TUBING, USE A 90° ELL FITTING AND ONE ADAPTER FITTING FOR CONNECTION.
FOR CONNECTIONS IN THE MIDDLE OF RUNS OF TUBING, USE A TEE FITTING AND TWO ADAPTER FITTINGS FOR THE CONNECTION.

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C DRIPLINE TUBING CONNECTION



NOTE: SEE LEGEND AND PLANS FOR THE NUMBER OF AIR RELEASE VALVES AND FLUSH VALVES REQUIRED FOR EACH DRIPLINE CONTROL ZONE.

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D DRIPLINE TUBING LAYOUT

NOTE:
INSTALL INDICATOR HEAD 10" FROM THE EDGE OF PAVING OR THE PLANTER EDGE.

INSTALL ORANGE COLORED INDICATOR NOZZLE ON POP-UP HEAD AND ADJUST TO FULLY CLOSED.

FOR RECYCLED WATER USE A GPH IRRIGATION GDFN-R, PURPLE COLOR CODED FLUSH NOZZLE.

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E DRIP FLUSH VALVE

NOTE:
PROVIDE ONE (1) 30" LONG STEEL "VALVE KEY" FOR EACH TEN (10) BALL VALVES INSTALLED ON THE PROJECT.

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F BALL VALVE

NOTE:
WHEN QCV IS LOCATED ON A MANIFOLD, USE A SCH. 80 SxT 90° ELBOW IN PLACE OF THE TEE FITTING.
SIZE THE ELBOW AS MANIFOLD MAINLINE SIZE X 1" FIPT.
USE A NON-HARDENING, TEFLON ASSEMBLY PASTE ON ALL THREADED FITTINGS.

SECTION VIEW - N.T.S.

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G QUICK COUPLER VALVE



NOTE:
INSTALL A WT2W-SVD-11P SINGLE STATION DECODER WITH THE REMOTE CONTROL VALVE.
CONVENTIONAL WIRED RCV SHOWN, FOR TWO-WIRE INSTALLATIONS, SEE DECODER INSTALLATION DETAIL.
USE AN APPROVED, NON-HARDENING, TEFLON ASSEMBLY PASTE ON ALL THREADED FITTINGS.
USE STANDARD BOX OPENINGS FOR ALL PIPING INTO THE BOX, DO NOT CUT THE BOX.

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H REMOTE CONTROL VALVE



NOTE:
INSTALL A WT2W-SVD-11P SINGLE STATION DECODER WITH THE REMOTE CONTROL VALVE.
CONVENTIONAL WIRED RCV SHOWN, FOR TWO-WIRE INSTALLATIONS. SEE DECODER INSTALLATION DETAIL.
USE AN APPROVED, NON-HARDENING, TEFLON ASSEMBLY PASTE ON ALL THREADED FITTINGS.
USE STANDARD BOX OPENINGS FOR ALL PIPING INTO THE BOX, DO NOT CUT THE BOX.

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I DRIP RCV ASSEMBLY

NOTE:
SEE DRAWINGS AND LEGEND FOR DECODER TYPE REQUIRED FOR EACH RCV.
SEE LEGEND FOR "TWO-WIRE PATH" WIRE AND JACKET SPECIFICATION.
SEE LEGEND FOR CONDUIT REQUIREMENTS FOR THE "TWO-WIRE PATH".

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J DECODER FOR A SINGLE RCV

NOTE:
SEE DRAWINGS AND LEGEND FOR DECODER TYPE REQUIRED FOR EACH RCV OR GROUP OF RCV'S.
SEE LEGEND FOR "TWO-WIRE PATH" WIRE AND JACKET SPECIFICATION.
SEE LEGEND FOR CONDUIT REQUIREMENTS FOR THE "TWO-WIRE PATH".

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K DECODER FOR MULTIPLE RCVS

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L DECODER GROUNDING USING A COPPER GROUND PLATE AND PLAN VIEW INSTALLATION

PIPE SIZES	A	B	C	D
SIZES 3/4" TO 2 1/2"	12"	18"	18"	4"
SIZES 3" AND 4"	18"	24"	24"	4"
SIZES 6" AND LARGER	X	30"	24"	6"

NOTE:
CONTRACTOR IS REQUIRED TO CONTACT 811 OR DIGALERT A MINIMUM OF TWO (2) DAYS PRIOR TO ANY EXCAVATION ON THE PROJECT. DIAL 811 OR LOG ONTO WWW.DIGALERT.ORG.

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M PIPE INSTALLATION

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GroundLevelSD.com

Rev.	Description	Date
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	AGENCY APPROVAL	

FACILITY #: 12372
OSHPD #:

ARCHITECT SEAL

CONSULTANT SEAL

LICENSED LANDSCAPE ARCHITECT
BRAD LENAHAN
4470
SIGNATURE
DATE 9-21-20
STATE OF CALIFORNIA

Drawing Title:
IRRIGATION DETAILS

Issue Date: 11/19/2020
Project No.: 006240.00 Checked by:

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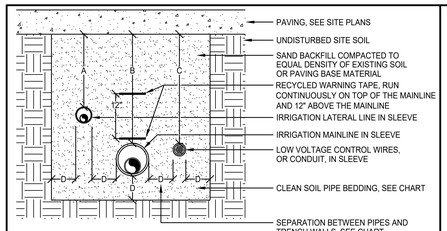
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I HAVE COMPLIED WITH THE CRITERIA OF THE IRRIGATION GUIDELINES AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN

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PIPE SIZES	A	B	C	D
ALL SIZES UNDER PEDESTRIAN PAVING	12"	24"	24"	4"
ALL SIZES UNDER VEHICULAR PAVING	24"	36"	36"	6"

NOTE:
CONTRACTOR IS REQUIRED TO CONTACT 811 OR DIGALERT A MINIMUM OF TWO (2) DAYS PRIOR TO ANY EXCAVATION ON THE PROJECT. DIAL 811 OR LOG ONTO WWW.DIGALERT.ORG.

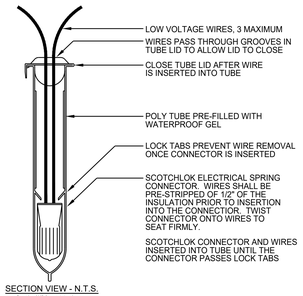
SLEEVES SHALL BE TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE CARRIED WITHIN, EXCEPT WHEN USING BELL AND GASKET PIPING WHERE MAINLINE SLEEVES SHALL BE 2.5 TIMES THE SIZE OF THE PIPE.

SLEEVES SHALL EXTEND 12" PAST THE EDGE OF PAVING INTO THE PLANTER.

SECTION VIEW – N.T.S.

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N SLEEVE INSTALLATION



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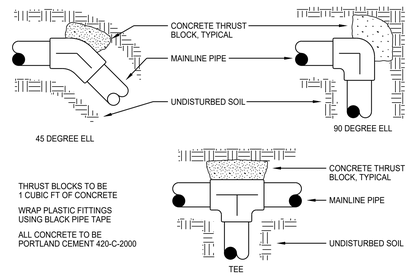
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NOTE:
WIRE CONNECTOR SHALL BE A GPH IRRIGATION GDBRY6 DIRECT BURY SPLICE KIT.

KIT SHALL INCLUDE A SCOTCHLOK Y SPRING CONNECTOR, A POLYPROPYLENE TUBE AND A WATERPROOF SEALING GEL. TUBE SHALL BE SUPPLIED PREFILLED WITH GEL.

DIRECT BURY SPLICE KIT SHALL BE USED TO ELECTRICALLY CONNECT 2 - 3 #14 OR 2 #12 PRE-STRIPPED COPPER WIRES. LARGER WIRES OR GREATER QUANTITIES OF WIRES SHALL REQUIRE A LARGER APPROVED WIRE CONNECTION.

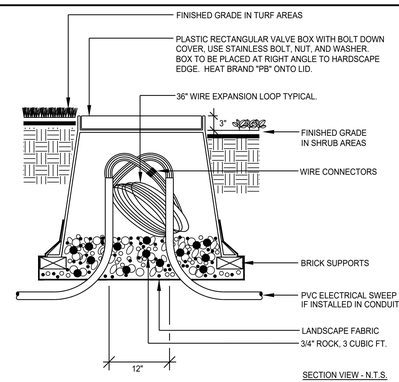
O WIRE CONNECTION



PLAN VIEW - N.T.S.

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P THRUST BLOCK



SECTION VIEW - N.T.S.

Q SPLICE BOX

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I HAVE COMPLIED WITH THE CRITERIA OF THE IRRIGATION GUIDELINES AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN

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ARCHITECT SEAL

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LICENSED LANDSCAPE ARCHITECT
BRAD LEWMAN
4470
SIGNATURE
DATE
09-30-20
STATE OF CALIFORNIA

Drawing Title:

IRRIGATION DETAILS

Issue Date: 11/19/2020

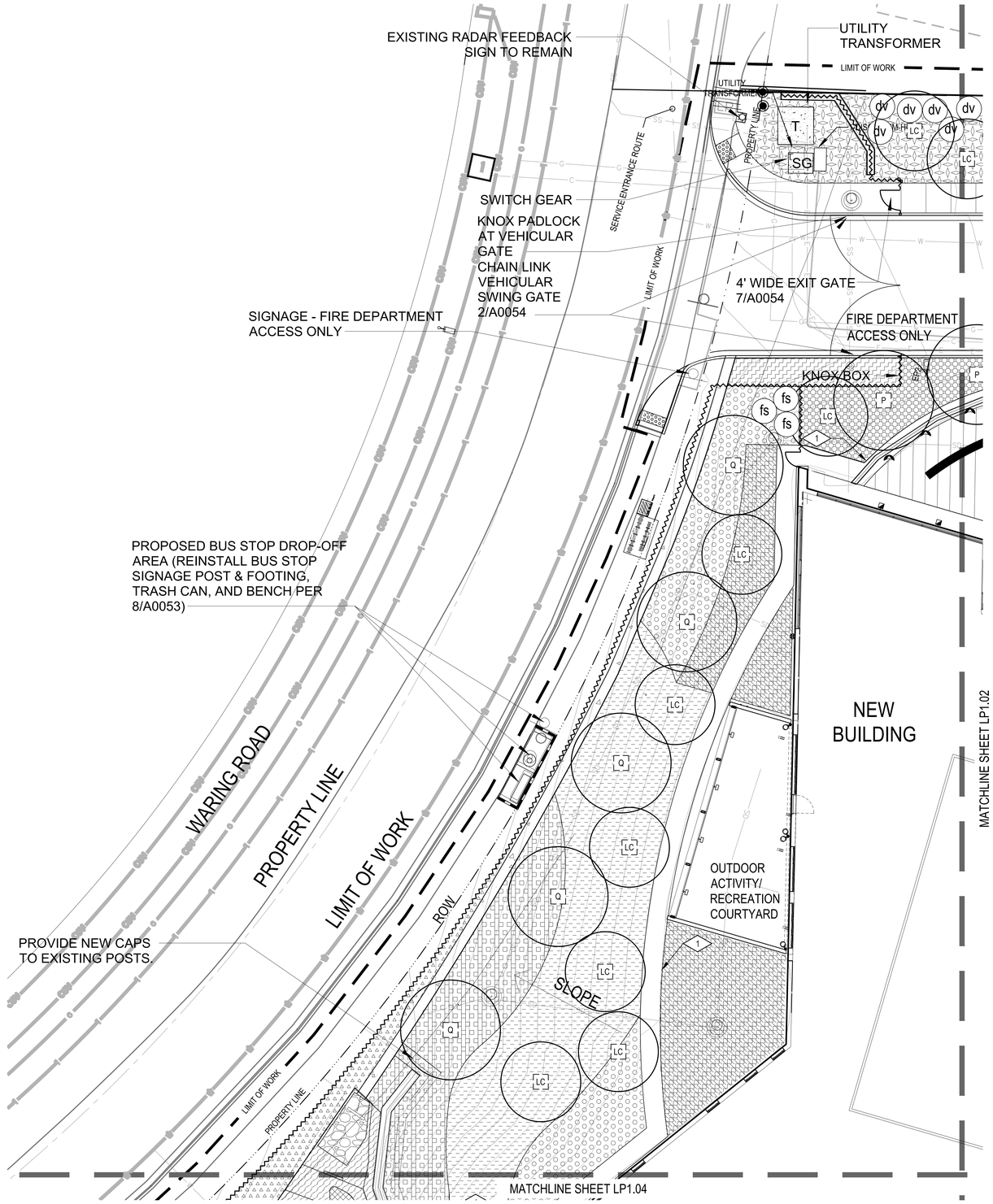
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PLANT SCHEDULE

REFER TO SHEET LP-XXXX FOR EXPANDED PLANTING MATERIAL SCHEDULE AND PLANTING NOTES

TREES

REFER TO DETAILS X ON SHEET LP-XXXX FOR TREE PLANTING AND STAKING

SYMBOL	SIZE	BOTANICAL NAME
A	48" BOX	ARBUTUS 'MARINA'
AM	60" BOX	ARBUTUS 'MARINA'
LT	48" BOX	LAGERSTROEMIA INDICA X FAURIEI 'TUSCARORA'
LC	36" BOX	LOPHOSTEMON CONFERTUS
P	48" BOX	PLATANUS RACEMOSA
PR	48" BOX	PLATANUS RACEMOSA
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QV	48" BOX	QUERCUS VIRGINIANA

PLANTING KEYNOTES

SYMBOL	DESCRIPTION
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	1 GAL.	SESLERIA AUTUMNALIS
	1 GAL.	TRACHELOSPERMUM JASMINOIDES
	5 GAL.	WESTRINGIA FRUTICOSA MUNDI

VINES

REFER TO DETAIL X ON SHEET LP-XXXX FOR VINE PLANTING

SYMBOL	SIZE	BOTANICAL NAME
	5 GAL.	FICUS PUMILA

GROUNDCOVER

REFER TO DETAIL X ON SHEET LP-XXXX FOR GROUNDCOVER PLANTING

SYMBOL	SIZE	BOTANICAL NAME
	HYDROSEED	NO MOW FESCUE MIX

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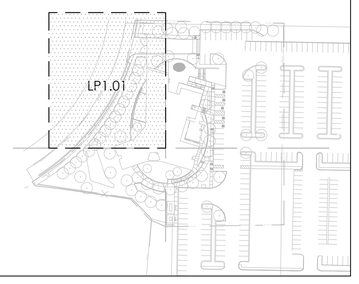
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	AGENCY APPROVAL	

FACILITY #: 12372
OSHPD #: H211094-37-00

ARCHITECT SEAL

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1"=10'-0"

NORTH

Drawing Title:

LANDSCAPE PLANTING PLAN

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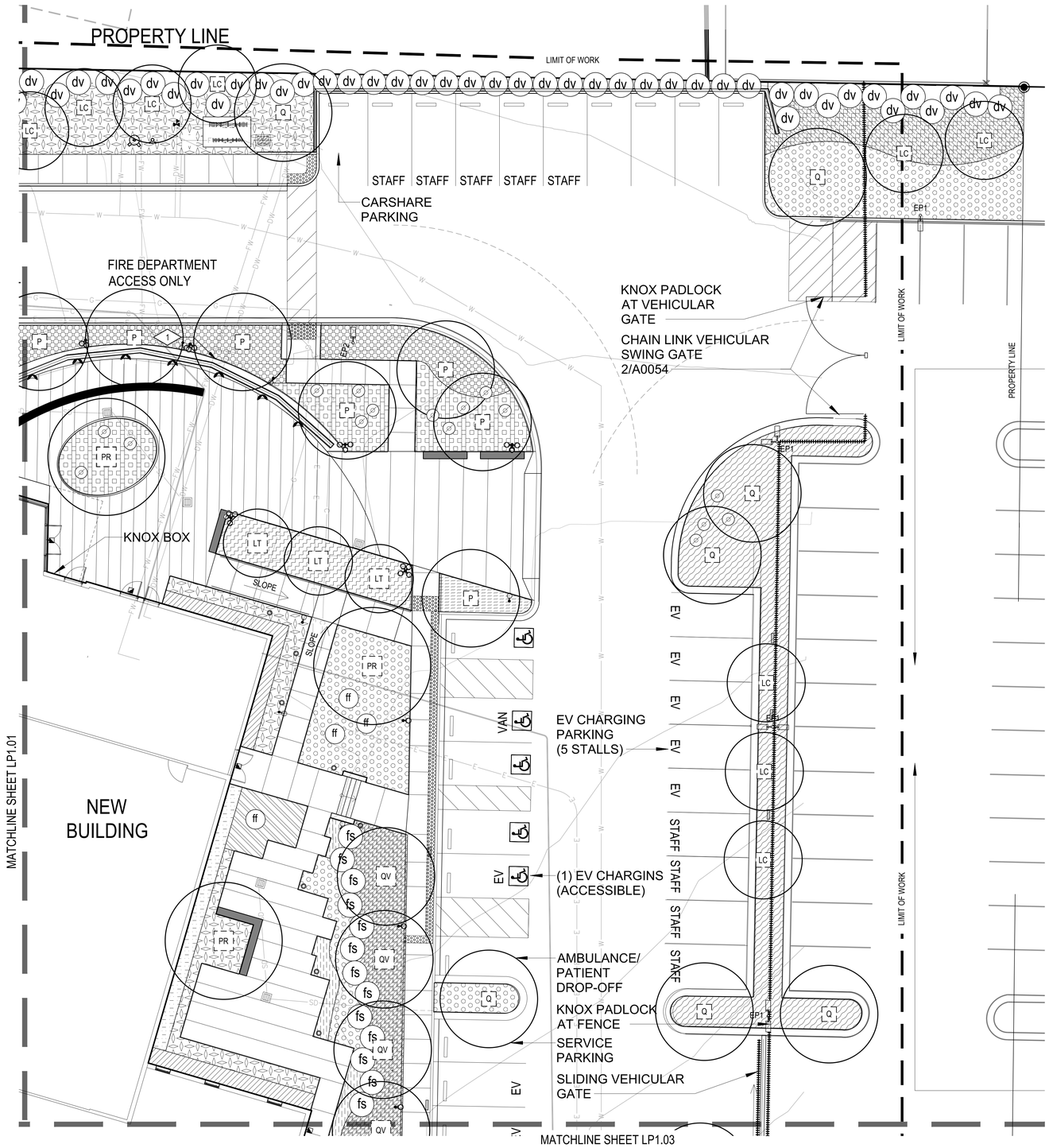
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VINES

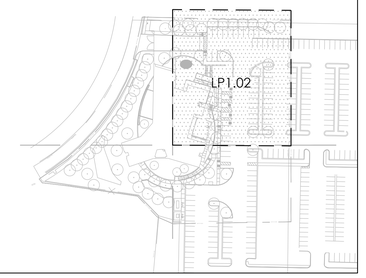
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LANDSCAPE
PLANTING PLAN

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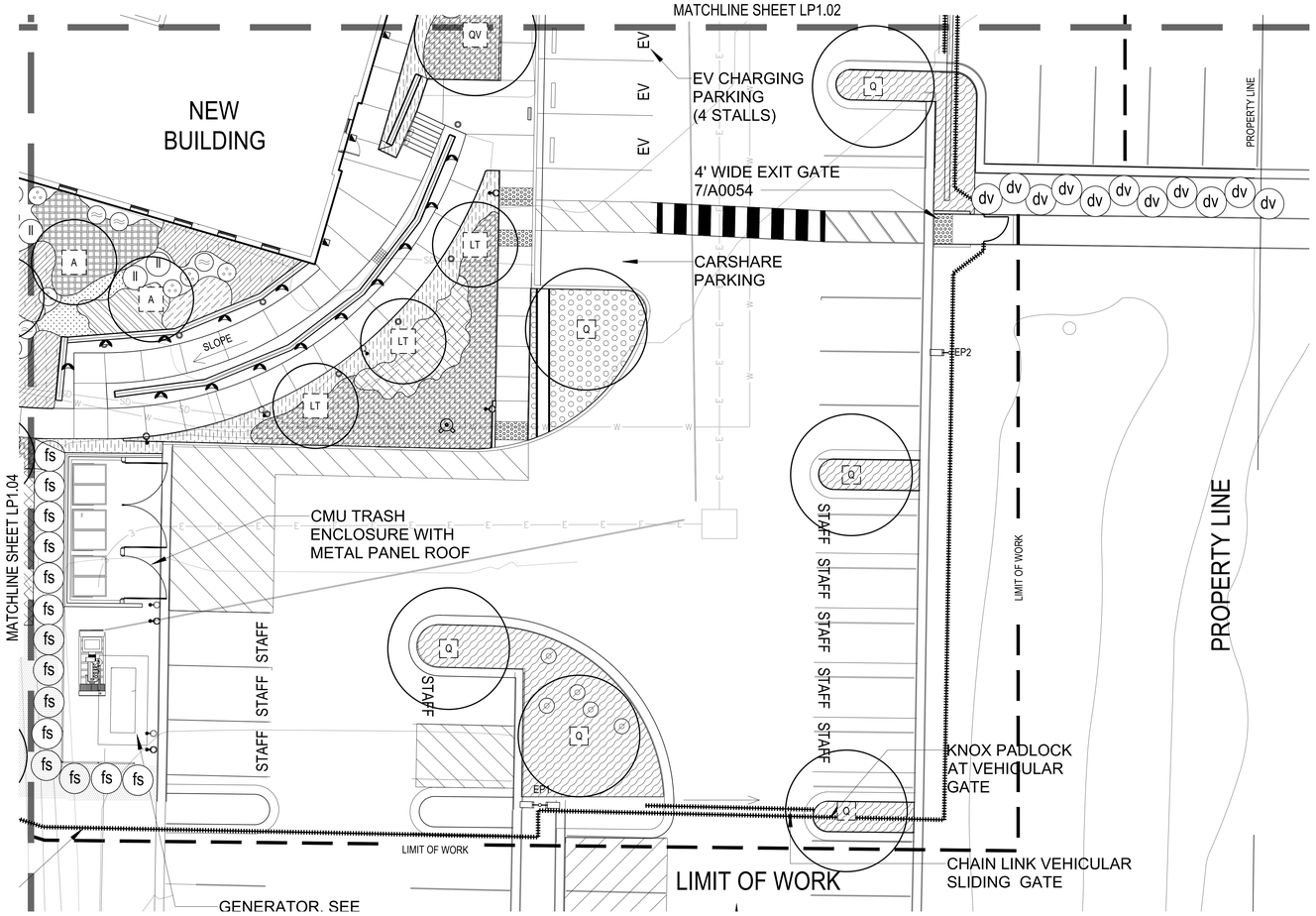
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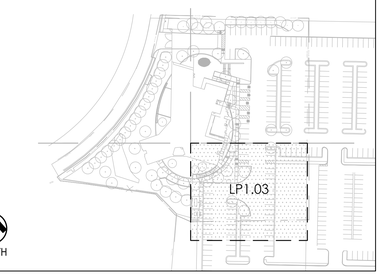
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BRAD LENHART
1/21/22
No. 3215
STATE OF CALIFORNIA

Drawing Title:

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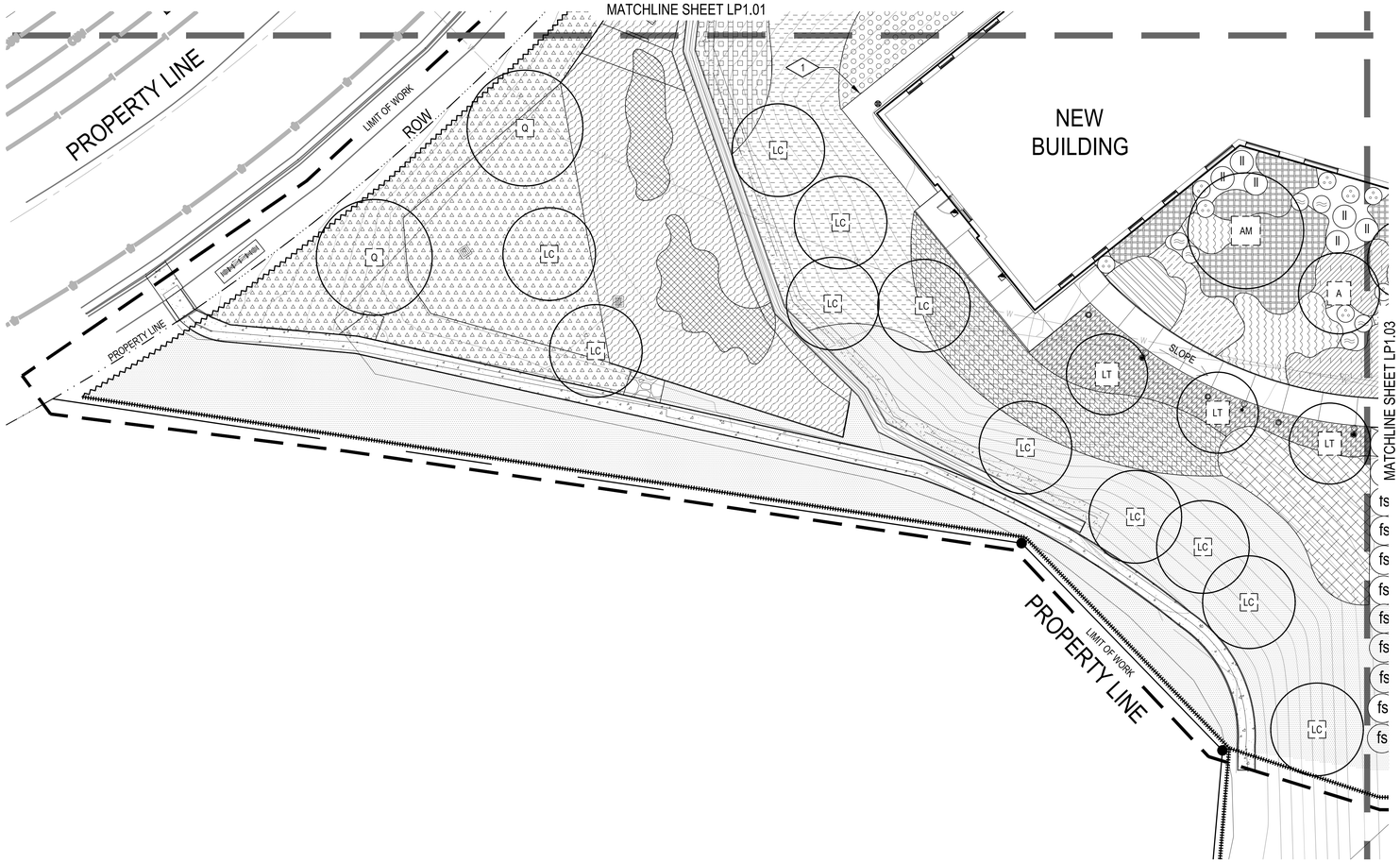
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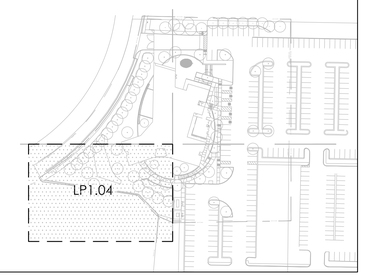
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	ISSUE FOR PLAN REVIEW BACKCHECK	21 JAN 2022
	ISSUE FOR PLAN REVIEW	27 OCT 2021
	ISSUE FOR PLANNING	15 DEC2020
	ISSUE FOR GRADING PERMIT	03 DEC 2020
	AGENCY APPROVAL	

FACILITY #: 12372
OSHPD #: H211094-37-00

ARCHITECT SEAL

CONSULTANT SEAL

PROFESSIONAL LANDSCAPE ARCHITECT BRAD LENAHAN 6420 RENEWAL 08/31/2021 STATE OF CALIFORNIA

Drawing Title:

LANDSCAPE
PLANTING PLAN

Issue Date: 01/21/2022

Project No.: 006240.00 Checked by:

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PLANTING NOTES

NUMBER	DESCRIPTION
1	TREES ARE STANDARD FORM UNLESS NOTED OTHERWISE.
2	TRIPLE STAKE TREES, UNLESS NOTED OTHERWISE.
3	TREE ROOT BARRIERS SHALL BE INSTALLED WHERE TREES ARE PLACED WITHIN 5 FEET OF PUBLIC IMPROVEMENTS INCLUDING WALKS, CURBS, OR STREET PAVEMENTS OR WHERE NEW PUBLIC IMPROVEMENTS ARE PLACED ADJACENT TO EXISTING TREES. THE ROOT BARRIER WILL NOT WRAP AROUND THE ROOT BALL.
4	WHERE SPREADING GROUNDCOVERS ARE SHOWN TO BE PLANTED ADJACENT TO A CURB OR WALKWAY EDGE, SET CENTER OF PLANT 24" OFF HARD SURFACE.
5	MINIMUM TREE SEPARATION DISTANCE: TRAFFIC SIGNALS / STOP SIGNS..... 20 FT. UNDERGROUND UTILITY LINES.....5 FT (10' FOR SEWER). ABOVE GROUND UTILITY STRUCTURES..... 10 FT. DRIVEWAYS (ENTRIES)..... 10 FT. INTERSECTIONS..... 25 FT. (INTERSECTING CURB LINES OF TWO STREETS)
6	ALL LANDSCAPE AND IRRIGATION SHALL CONFORM TO THE STANDARDS OF THE CITY-WIDE LANDSCAPE REGULATIONS AND THE CITY OF OCEANSIDE LAND DEVELOPMENT MANUAL LANDSCAPE STANDARDS AND ALL OTHER LANDSCAPE RELATED CITY AND REGIONAL STANDARDS.
7	A MINIMUM ROOT ZONE OF 40SF IN AREA SHALL BE PROVIDED FOR ALL TREES. THE MINIMUM DIMENSION FOR THIS AREA SHALL BE 5 FEET.
8	MAINTENANCE: ALL REQUIRED LANDSCAPE SHALL BE MAINTAINED BY OWNER. THE LANDSCAPE AREAS SHALL BE MAINTAINED FREE OF DEBRIS AND LITTER, AND ALL PLANT MATERIAL SHALL BE MAINTAINED IN A HEALTHY GROWING CONDITION. DISEASED OR DEAD PLANT MATERIAL SHALL BE SATISFACTORILY TREATED OR REPLACED PER THE CONDITIONS OF THE PERMIT.
9	TREES SHALL BE MAINTAINED SO THAT ALL BRANCHES OVER PEDESTRIAN WALKWAYS ARE 6 FEET ABOVE THE WALKWAY GRADE AND BRANCHES OVER VEHICULAR TRAVEL WAYS ARE 16 FEET ABOVE THE GRADE OF THE TRAVEL WAY.
10	EXISTING TREES TO REMAIN ON SITE WITHIN THE AREA OF WORK WILL BE PROTECTED IN PLACE. THE FOLLOWING PROTECTION MEASURES WILL BE PROVIDED: 1. A BRIGHT YELLOW OR ORANGE TEMPORARY FENCE WILL BE PLACED AROUND EXISTING TREES AT THE DRIP LINE. 2. STOCKPILING, TOPSOIL DISTURBANCE, VEHICLE USE, AND MATERIAL STORAGE OF ANY KIND IS PROHIBITED WITHIN THE DRIP LINE. 3. A TREE WATERING SCHEDULE WILL BE MAINTAINED AND DOCUMENTED DURING CONSTRUCTION. 4. ALL DAMAGED TREES WILL BE REPLACED WITH ONE OF EQUAL OR GREATER SIZE.
11	MULCH: ALL REQUIRED PLANTING AREAS AND ALL EXPOSED SOIL AREAS WITHOUT VEGETATION SHALL BE COVERED WITH MULCH TO A MINIMUM DEPTH OF 3", EXCLUDING SLOPES REQUIRING REVEGETATION.
12	IF ANY REQUIRED LANDSCAPE INDICATION ON THE APPROVED CONSTRUCTION DOCUMENT PLANS IS DAMAGED OR REMOVED DURING DEMOLITION OR CONSTRUCTION, IT SHALL BE REPAIRED AND/OR REPLACED IN KIND AND EQUIVALENT SIZE PER THE APPROVED DOCUMENTS TO THE SATISFACTION OF THE DEVELOPMENT SERVICES DEPARTMENT WITHIN 30 DAYS OF DAMAGE.
13	SOIL SAMPLES SHALL BE TAKEN FROM THE SITE AT THE LANDSCAPE ARCHITECT'S DIRECTIVE AND SENT TO A SOIL ANALYSIS LABORATORY TO PERFORM / PROVIDE SOIL AGRONOMIC TEST REPORT(S) PER SPECIFICATIONS. THIS REPORT SHALL BE PERFORMED PRIOR TO START OF PLANTING.

PLANT SCHEDULE

TREES — REFER TO DETAILS X ON SHEET LP-XXXX FOR TREE PLANTING AND STAKING

SYMBOL	SIZE	BOTANICAL NAME	COMMON NAME	WUCOLS	HEIGHT	SPREAD	REMARKS
A	48" BOX	ARBUTUS 'MARINA'	MARINA ARBUTUS	LOW	14'	8'	-
AM	60" BOX	ARBUTUS 'MARINA'	MARINA ARBUTUS	LOW	-	-	-
LT	48" BOX	LAGERSTROEMIA INDICA X FAURIEI 'TUSCARORA'	TUSCARORA CRAPE MYRTLE	-	14'	8'	SINGLE / STAKED
LC	36" BOX	LOPHOSTEMON CONFERTUS	BRISBANE BOX	-	12'	6'	-
P	48" BOX	PLATANUS RACEMOSA	WESTERN SYCAMORE	-	18'	8'	-
PR	48" BOX	PLATANUS RACEMOSA	WESTERN SYCAMORE	-	18'	10'	-
Q	36" BOX	QUERCUS VIRGINIANA	SOUTHERN LIVE OAK	-	10'	5'	-
QV	48" BOX	QUERCUS VIRGINIANA	SOUTHERN LIVE OAK	-	14'	8'	-

SHRUBS & VINES — REFER TO DETAILS X ON SHEET LP-XXXX AND DETAILS X ON SHEET LP-XXXX FOR SHRUB & VINE PLANTING

SYMBOL	SIZE	BOTANICAL NAME	COMMON NAME	WUCOLS	HEIGHT	WIDTH	REMARKS
	1 GAL.	ACHILLEA MILLEFOLIUM 'APPLE BLOSSOM'	APPLE BLOSSOM COMMON YARROW	LOW	-	-	@24" O.C.
	1 GAL.	ACHILLEA 'MOONSHINE'	FERN LEAF YARROW	LOW	-	-	@24" O.C.
ø	5 GAL.	AGAVE ATTENUATA	FOX TAIL AGAVE	LOW	-	-	@30" O.C.
	5 GAL.	ALOE 'ALWAYS RED'	ALWAYS RED ALOE	LOW	-	-	@24" O.C.
	5 GAL.	ALOE 'BLUE ELF'	BLUE ELF ALOE	LOW	-	-	@24" O.C.
	5 GAL.	ALOE STRIATA HYB. 'GHOST ALOE'	GHOST ALOE	LOW	-	-	@24" O.C.
	5 GAL.	BACCHARIS PILULARIS 'PIGEON POINT'	DWARF COYOTE BRUSH	LOW	-	-	@42" O.C.; LOCATE 4' FROM HARDSCAPE EDGE
	1 GAL.	CALAMAGROSTIS X ACUTIFLORA 'KARL FORESTER'	FEATHER REED GRASS	MEDIUM	-	-	@30" O.C.
	5 GAL.	CALLISTEMON 'LITTLE JOHN'	DWARF CALLISTEMON	LOW	-	-	@30" O.C.
	1 GAL.	CAREX PRAEGRACILIS	CALIFORNIA FIELD SEDGE	MEDIUM	-	-	@18" O.C.
	5 GAL.	CHONDROPETALUM TECTORUM	SMALL CAPE RUSH	LOW	-	-	@36" O.C.
	5 GAL.	CRASSULA OVATA 'BIG ALICE'	LARGE JADE PLANT	LOW	-	-	@30" O.C.
dv	15 GAL.	DODONAEA VISCOSA 'PURPUREA'	PURPLE HOPSEED BUSH	LOW	-	-	@60" O.C.
fs	15 GAL.	FEIJOA SELLOWIANA	PINEAPPLE GUAVA	LOW	-	-	@60" O.C.
	1 GAL.	FESTUCA RUBRA	RED FESCUE	HIGH	-	-	@18" O.C.
ff	5 GAL.	FURCRAEA FOETIDA 'MEDIOPICTA'	NCN	LOW	-	-	@48" O.C.
	1 GAL.	GAURA LINDHEIMERI 'SO WHITE'	SO WHITE GAURA	LOW	-	-	@24" O.C.
	5 GAL.	LANTANA 'NEW GOLD'	NEW GOLD LANTANA	VERY LOW	-	-	@36" O.C.
ll	5 GAL.	LEONOTIS LEONURUS	LION'S TAIL	LOW	-	-	@48" O.C.
	1 GAL.	LEYMUS CONDENSATUS 'CANYON PRINCE'	CANYON PRINCE WILD RYE	LOW	-	-	@30" O.C.
	1 GAL.	LOMANDRA CONFERTIFOLIA SSP. 'POMPOM'	POM POM MAT RUSH	LOW	-	-	@30" O.C.
	1 GAL.	LOMANDRA LONGIFOLIA 'NYALLA'	NYALLA MAT RUSH	LOW	-	-	@30" O.C.
	1 GAL.	MUHLENBERGIA DUBIA	PINE MUHLY	LOW	-	-	@30" O.C.
	5 GAL.	RHAPHIOLEPIS UMBELLATA 'MINOR'	DWARF YEDDO HAWTHORN	LOW	-	-	@30" O.C.
	1 GAL.	SALVIA CLEVELANDII 'POZO BLUE'	GREY MUSK SAGE	VERY LOW	-	-	@36" O.C.
	1 GAL.	SALVIA GREGGII 'FURMAN'S RED'	FURMAN'S RED AUTUMN SAGE	LOW	-	-	@30" O.C.
	1 GAL.	SALVIA LEUCANTHA 'SANTA BARBARA'	SANTA BARBARA MEXICAN BUSH SAGE	LOW	-	-	@36" O.C.
	1 GAL.	SESLERIA AUTUMNALIS	AUTUMN MOOR GRASS	MEDIUM	-	-	@12" O.C.
	1 GAL.	TRACHELOSPERMUM JASMINOIDES	STAR JASMINE	MEDIUM	-	-	@30" O.C.
	5 GAL.	WESTRINGIA FRUTICOSA MUNDI	LOW COAST ROSEMARY	LOW	-	-	@42" O.C.

VINES — REFER TO DETAIL X ON SHEET LP-XXXX FOR VINE PLANTING

SYMBOL	SIZE	BOTANICAL NAME	COMMON NAME	WUCOLS	HEIGHT	WIDTH	REMARKS
	5 GAL.	FICUS PUMILA	CREEPING FIG	MEDIUM	-	-	-

GROUNDCOVER — REFER TO DETAIL X ON SHEET LP-XXXX FOR GROUNDCOVER PLANTING

SYMBOL	SIZE	BOTANICAL NAME	COMMON NAME	WUCOLS	HEIGHT	WIDTH	REMARKS
	HYDROSEED	NO MOW FESCUE MIX	NCN	LOW	-	-	-

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LICENSED LANDSCAPE ARCHITECT BRAD LEMMON 5970 7/31/22 STATE OF CALIFORNIA

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Issue Date: 01/21/2022

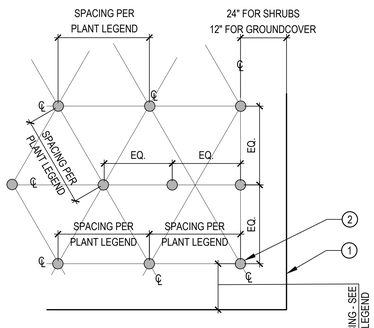
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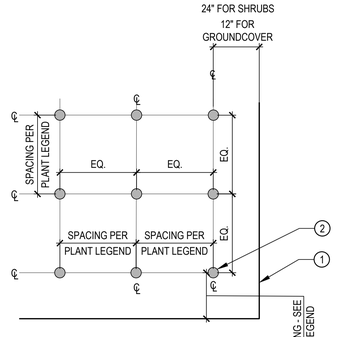
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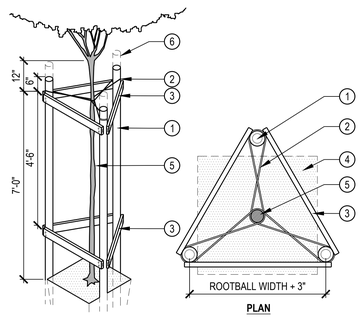


LEGEND
1. PLANTING EDGE (I.E., EDGE OF CURB / EDGE OF PAVING / FACE OF WALL / EDGE OF HEADER, ETC.)
2. CENTER OF PLANT MATERIAL

NOTES:

A. PLANT SPACING SHALL BE ADJUSTED TO BEGIN AND END SPACING WITH A PLANT AT CORNERS / CHANGES IN DIRECTION OF PLANTING EDGE

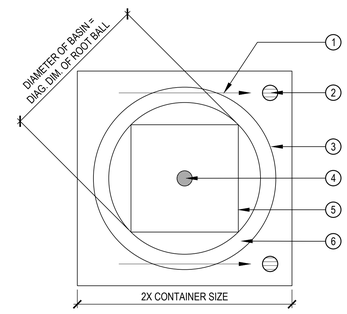
7 SHRUB & GROUNDCOVER PLANTING LAYOUT
N.T.S.



LEGEND
1. WOOD TREE STAKES (3). (SEE SPECIFICATIONS)
2. INSTALL (3) TREE TIES PER TREE. (SEE SPECIFICATIONS)
3. 1"x 3" WOOD BRACE, (6) PER TREE, SECURE TO STAKES WITH (2) 2" GALVANIZED WOOD SCREWS AT EACH END. PRE-DRILL 1"x 3" WOOD BRACE TO PREVENT SPLITTING.
4. TREE ROOT BALL
5. TREE TRUNK
6. CUT OFF STAKES AS NEEDED TO CLEAR BRANCHES AND BE UNIFORM IN HEIGHT

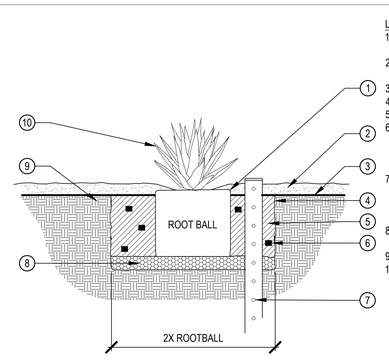
NOTES
A. BRACES AND TOPS OF ALL STAKES TO BE LEVEL WITH EACH OTHER.
B. SEE SPECIFICATIONS FOR TREE STAKING METHODS & MATERIALS

4 TREE STAKING TRIPLE (36" BOX AND SMALLER)
SCALE: N.T.S.



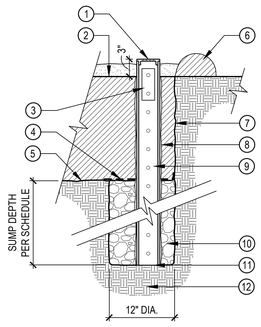
LEGEND
1. BOTTOM OF TREE PIT SLOPES TO SUMP DRAINS
2. BREATHER TUBE / SUMP DRAIN, SEE DETAIL
3. PLANT PIT
4. TREE TRUNK
5. ROOT BALL
6. BERM AROUND WATERING BASIN

1 TREE PLANTING PLAN
SCALE: N.T.S.



LEGEND
1. PLANT SO ROOT BALL IS 1"-2" ABOVE FINISH GRADE
2. MULCH LAYER PER PLAN, TAPER AT ROOT BALL
3. FINISH GRADE
4. SCARIFY SIDES OF PIT
5. PIT BACKFILL MIX PER SPECS
6. FERTILIZER TABLETS PER SPECIFICATIONS. INSTALL SO THEY DO NOT TOUCH ROOT BALL
7. BREATHER TUBE WITH SUMP PER DETAIL 5 / LP3.01 - 15 GAL SUCCULENT SIZE OR LARGER ONLY
8. 3" LAYER OF 1" LAVA ROCK IN PLANT PIT
9. NATIVE SOIL
10. 1, 5, 15 GALLON OR 24" BOX SIZE SUCCULENT PLANT

8 SUCCULENT PLANTING
SCALE: N.T.S.

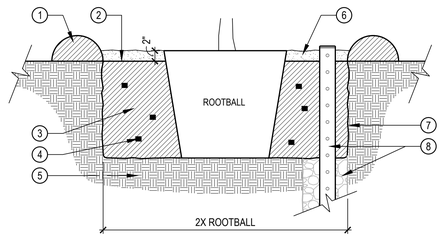


LEGEND
1. DRAIN GRATE PER SPECIFICATIONS
2. FINISH GRADE
3. DUCT TAPE HOLES WITHIN 6" OF FINISHED GRADE
4. GEOTEXTILE FABRIC OVER SUMP
5. BOTTOM OF PLANT PIT
6. WATERING BASIN
7. PLANT PIT
8. GEOTEXTILE DRAIN "SOCK"
9. PERFORATED DRAIN PIPE - SIZE AND QUANTITY PER SCHEDULE
10. 3/4" CRUSHED ROCK SUMP BACKFILL (NO ROCK IN PIPE)
11. "TIE OFF" SOCK TO CLOSE END
12. NATIVE SOIL

SCHEDULE

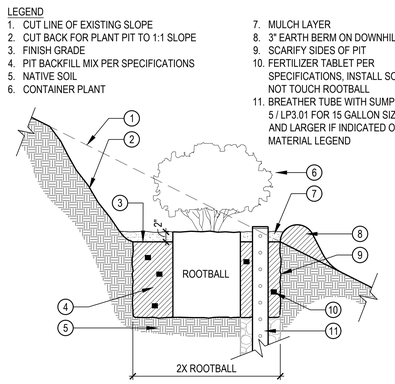
PLANT SIZE	PIPE QTY.	PIPE SIZE	SUMP DEPTH
15 GALLON	(1)	3"	3'-0"
24" BOX	(1)	4"	4'-0"
≥ 36" BOX	(2)	4"	4'-0"

5 BREATHER TUBE WITH SUMP
SCALE: N.T.S.



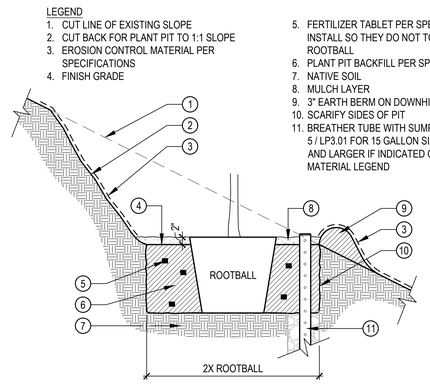
LEGEND
1. 3" WATERING BASIN FORMED WITH BACKFILL SOIL MIX AROUND PLANT PIT
2. FINISH GRADE
3. PIT BACKFILL MIX PER SPECIFICATIONS
4. FERTILIZER TABLETS PER SPECIFICATIONS, INSTALL SO THEY DO NOT TOUCH ROOTBALL
5. NATIVE SOIL
6. MULCH LAYER
7. SCARIFY SIDES OF PIT
8. BREATHER TUBE WITH SUMP PER DETAIL 5 / LP3.01 FOR 15 GALLON SIZE PLANTS AND LARGER IF INDICATED ON PLANT MATERIAL LEGEND

2 TREE PLANTING
SCALE: N.T.S.



LEGEND
1. CUT LINE OF EXISTING SLOPE
2. CUT BACK FOR PLANT PIT TO 1:1 SLOPE
3. FINISH GRADE
4. PIT BACKFILL MIX PER SPECIFICATIONS
5. NATIVE SOIL
6. CONTAINER PLANT
7. MULCH LAYER
8. 3" EARTH BERM ON DOWNHILL SIDE
9. SCARIFY SIDES OF PIT
10. FERTILIZER TABLET PER SPECIFICATIONS, INSTALL SO THEY DO NOT TOUCH ROOTBALL
11. BREATHER TUBE WITH SUMP PER DETAIL 5 / LP3.01 FOR 15 GALLON SIZE PLANTS AND LARGER IF INDICATED ON PLANT MATERIAL LEGEND

6 CONTAINER SHRUB PLANTING ON SLOPE
SCALE: N.T.S.



LEGEND
1. CUT LINE OF EXISTING SLOPE
2. CUT BACK FOR PLANT PIT TO 1:1 SLOPE
3. EROSION CONTROL MATERIAL PER SPECIFICATIONS
4. FINISH GRADE
5. FERTILIZER TABLET PER SPECIFICATIONS, INSTALL SO THEY DO NOT TOUCH ROOTBALL
6. PLANT PIT BACKFILL PER SPECIFICATIONS
7. NATIVE SOIL
8. MULCH LAYER
9. 3" EARTH BERM ON DOWNHILL SIDE
10. SCARIFY SIDES OF PIT
11. BREATHER TUBE WITH SUMP PER DETAIL 5 / LP3.01 FOR 15 GALLON SIZE PLANTS AND LARGER IF INDICATED ON PLANT MATERIAL LEGEND

3 TREE PLANTING ON SLOPE
SCALE: 1:1

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LICENSED LANDSCAPE ARCHITECT BRAD LENHAM No. 6430 1/21/2022 RENEWAL 08-31-23 STATE OF CALIFORNIA

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LANDSCAPE
PLANTING DETAILS

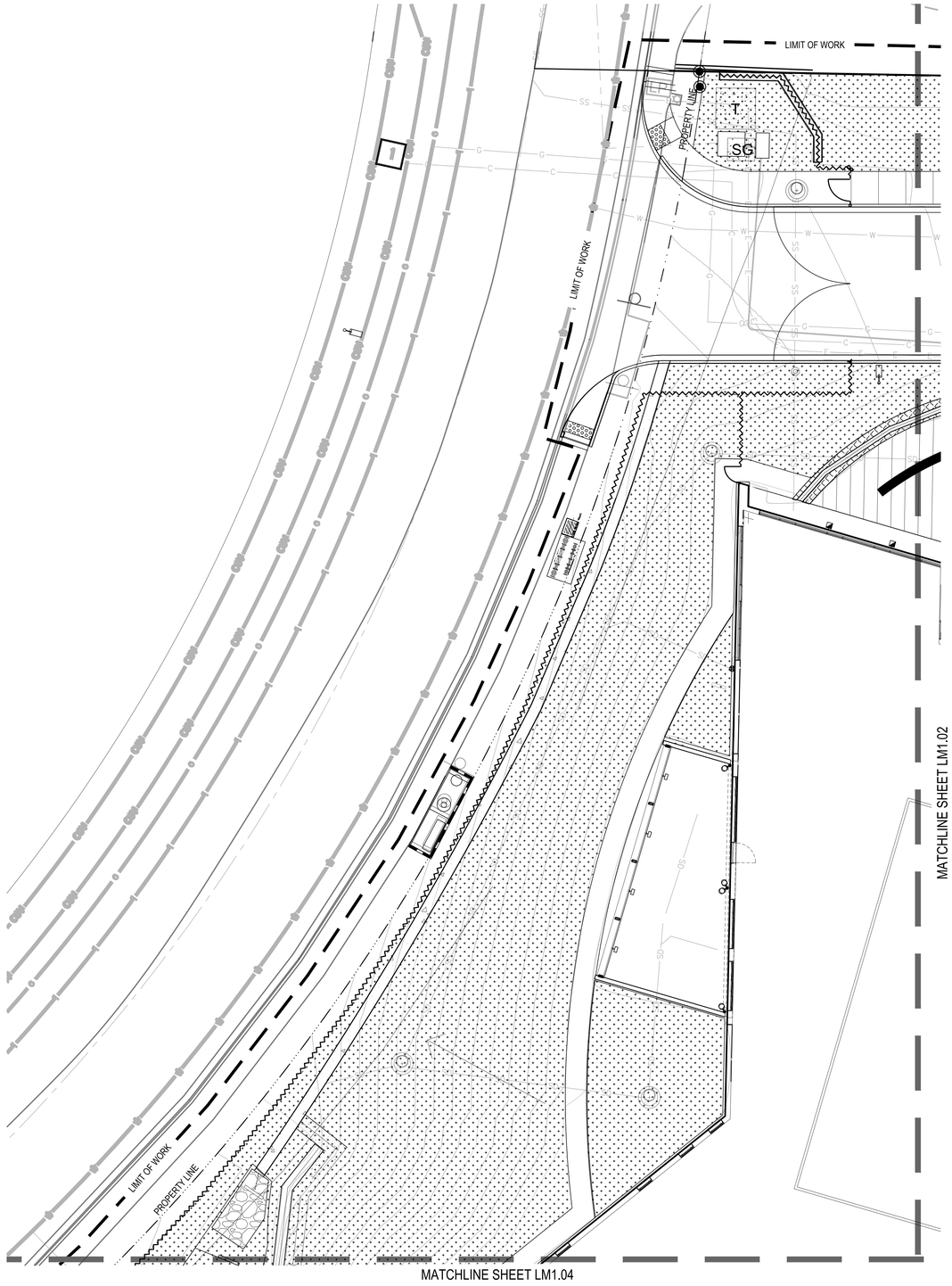
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LANDSCAPE MULCH LEGEND

SYMBOL	DEPTH	DESCRIPTION	SPECIFICATIONS / SUPPLIER
	3"	SHREDDED WOOD MULCH	FOREST FINES (1-1/2" MINUS) AGRI SERVICE
	3"	CRUSHED ROCK MULCH	3/4" DIA. COPPER CANYON SOUTHWEST BOULDER & STONE

NOTES

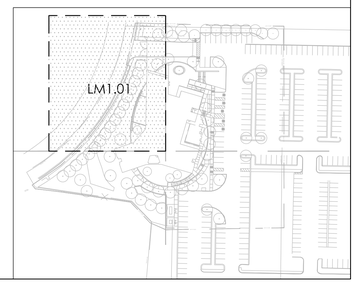
1. ALL ROCK MULCH SHALL BE PRE-WASHED PRIOR TO INSTALLATION.
2. ALL PLANTING AREAS NOT SHOWN TO RECEIVE ROCK MULCH SHALL RECEIVE 'FOREST FINES' SHREDDED BARK MULCH.
3. ALL AREAS SHALL RECEIVE PRE-EMERGENT HERBICIDE PER SPECIFICATIONS PRIOR TO PLACEMENT OF ALL MULCH TYPES.
4. REFER TO DETAIL 4/ LC3.02 FOR INSTALLATION

SPECIAL INSTRUCTIONS

VERIFY ALL AREAS TO RECEIVE CHUNKY ROCK MULCH WITH LANDSCAPE ARCHITECT PRIOR TO PROCUREMENT AND INSTALLATION.

0 5' 10' 20'
1"=10'-0"

NORTH



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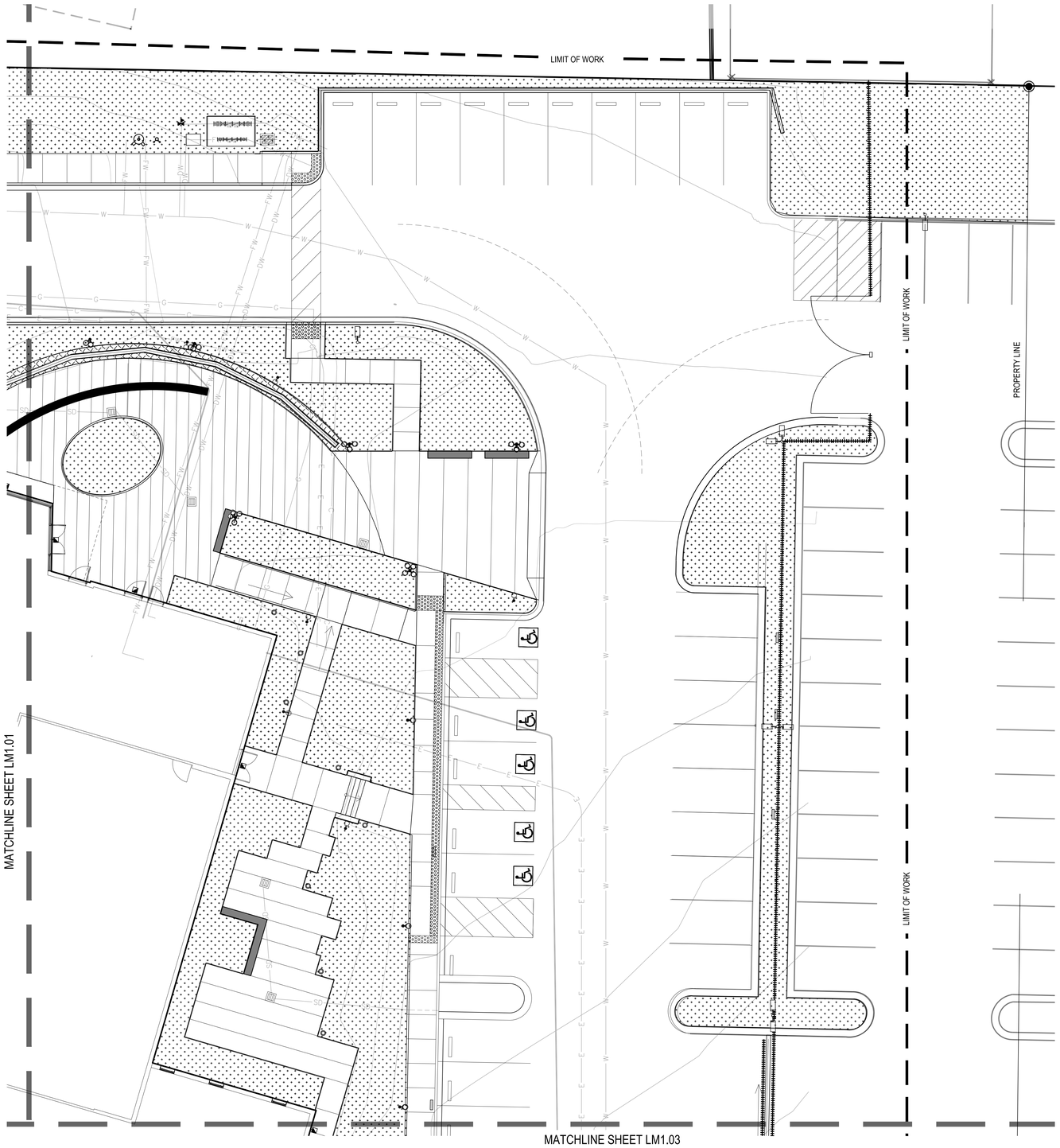
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LANDSCAPE MULCH LEGEND

SYMBOL	DEPTH	DESCRIPTION	SPECIFICATIONS / SUPPLIER
	3"	SHREDDED WOOD MULCH	FOREST FINES (1-1/2" MINUS) AGRI SERVICE
	3"	CRUSHED ROCK MULCH	3/4" DIA. COPPER CANYON SOUTHWEST BOULDER & STONE

NOTES

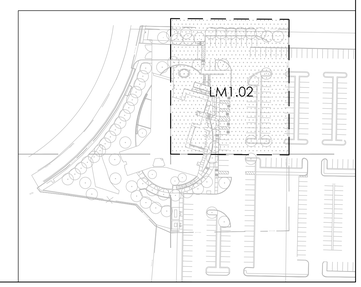
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2. ALL PLANTING AREAS NOT SHOWN TO RECEIVE ROCK MULCH SHALL RECEIVE 'FOREST FINES' SHREDDED BARK MULCH.
3. ALL AREAS SHALL RECEIVE PRE-EMERGENT HERBICIDE PER SPECIFICATIONS PRIOR TO PLACEMENT OF ALL MULCH TYPES.
4. REFER TO DETAIL 4/ LC3.02 FOR INSTALLATION

SPECIAL INSTRUCTIONS

VERIFY ALL AREAS TO RECEIVE CHUNKY ROCK MULCH WITH LANDSCAPE ARCHITECT PRIOR TO PROCUREMENT AND INSTALLATION.

0 5' 10' 20'
1"=10'-0"

NORTH



Tri-City Medical Center

Tri-City Medical Center Psychiatric Health Facility

4002 Vista Way
Oceanside, CA 92056

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GroundLevelSD.com

ISSUE FOR PLAN REVIEW BACKCHECK	21 JAN 2022
ISSUE FOR PLAN REVIEW	27 OCT 2021
ISSUE FOR PLANNING	15 DEC2020
ISSUE FOR GRADING PERMIT	03 DEC 2020

Rev.	Description	Date
AGENCY APPROVAL		

FACILITY #: 12372
OSHPD #: H211094-37-00

ARCHITECT SEAL

CONSULTANT SEAL

MICHAEL LANDSCAPE ARCHITECT LENAHAN 5821 STATE OF CALIFORNIA

Drawing Title:

LANDSCAPE
MULCH PLAN

Issue Date: 01/21/2022

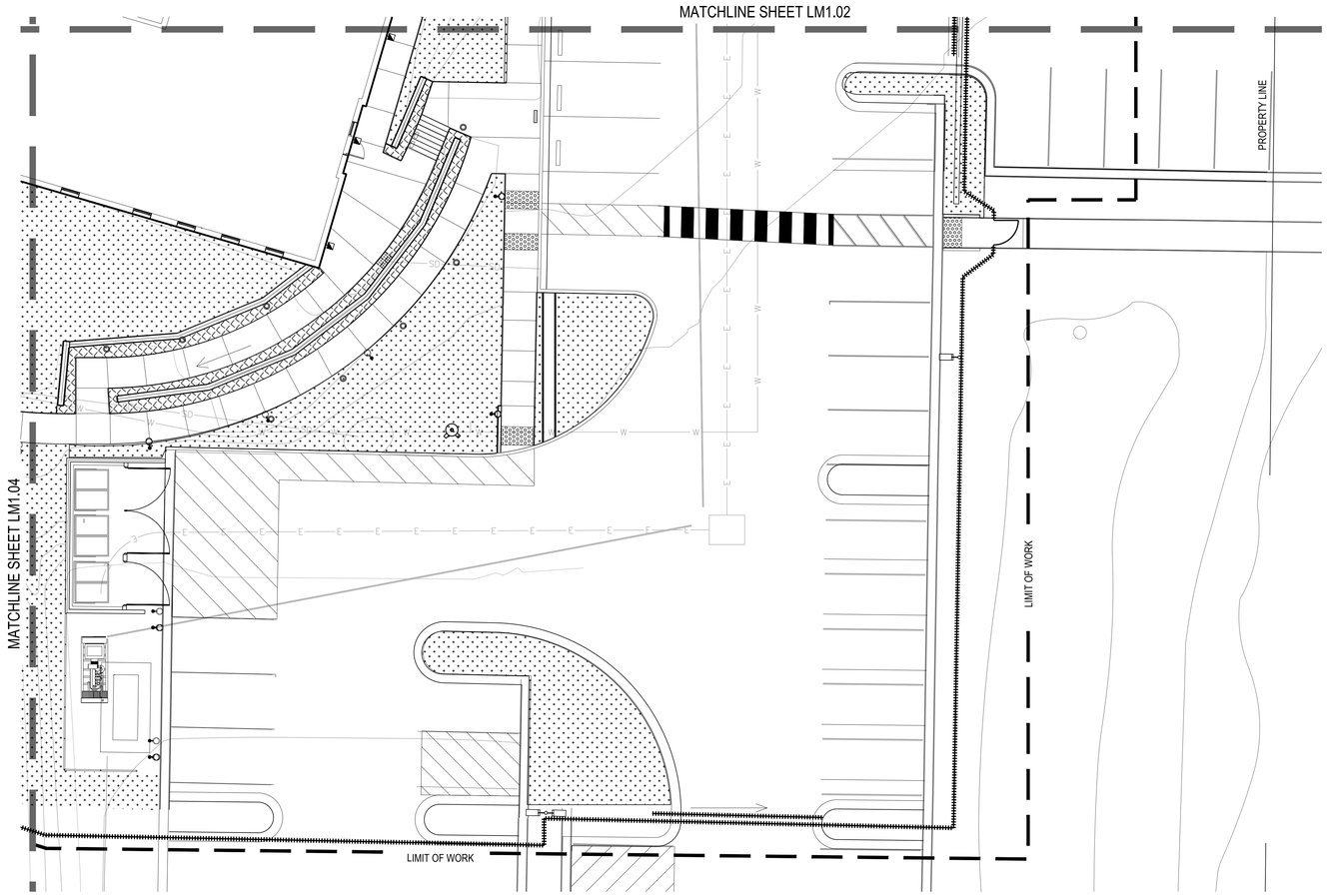
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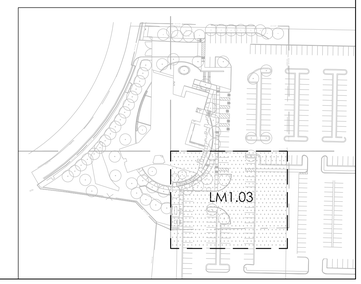
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OSHPD #: H211094-37-00

ARCHITECT SEAL

CONSULTANT SEAL

LICENSED LANDSCAPE ARCHITECT
BRAD LENHAM
6420
RENEWAL 08/31/22
STATE OF CALIFORNIA

Drawing Title:

LANDSCAPE
MULCH PLAN

Issue Date: 01/21/2022

Project No.: 006240.00 Checked by:

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MATCHLINE SHEET LM1.01
LIMIT OF WORK
PROPERTY LINE
MATCHLINE SHEET LM1.03
LIMIT OF WORK

LANDSCAPE MULCH LEGEND

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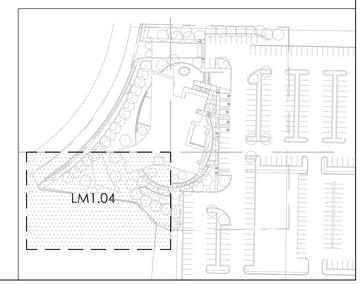
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CONSULTANT SEAL

LICENSED LANDSCAPE ARCHITECT
BRAD LENHART
1/21/22
REN 3-31-23
STATE OF CALIFORNIA

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GENERAL STRUCTURAL NOTES (G.S.N.)

DESIGN CRITERIA

SCOPE: NEW CONSTRUCTION

CODE: 2019 CALIFORNIA BUILDING CODE WITH OSHPD 5 AMENDMENTS, REFERRED TO AS "THE CODE"

GOVERNING JURISDICTION: OSHPD

LIVE LOADS:
ROOF..... 20 PSF REDUCIBLE

OTHER LOADS:
ROOF SOLAR (PV) ARRAY..... 5 PSF

WIND ANALYSIS: DIRECTIONAL PROCEDURE PER ASCE 7, CHAPTER 27
RISK CATEGORY..... = II
BASIC WIND SPEED..... V = 98 MPH
WIND EXPOSURE..... = CATEGORY C
GUST EFFECT FACTOR..... G = .85
INTERNAL PRESSURE COEFFICIENT.....GC/pi = ±.18

COMPONENTS & CLADDING WIND PRESSURES (psf)

LOCATION		COMPONENT TRIBUTARY AREA (ft^2)					
		10		100		500	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
ROOF	ZONE 1	16.0	-20.4	16.0	-18.6	16.0	-18.6
	ZONE 2	18.6	-34.2	16.0	-22.1	16.0	-22.1
	ZONE 3	18.6	-34.2	16.0	-22.1	16.0	-22.1
WALLS	ZONE 4	18.6	-20.2	16.0	-17.4	16.0	-16.0
	ZONE 5	18.6	-24.8	16.0	-19.4	16.0	-16.0
PARAPETS	ZONE 4	46.6	-32.6	31.8	-27.1	29.9	-23.3
	ZONE 5	46.6	-37.3	31.8	-29.0	29.9	-23.3

SEISMIC CRITERIA:
SITE CLASSIFICATION..... = C
RISK CATEGORY..... = II
SEISMIC DESIGN CATEGORY..... = D

S_S = .94 g S_{DS} = .75 g
S_1 = .35 g S_{D1} = .35 g

SEISMIC ANALYSIS: MODAL RESPONSE SPECTRUM USED PER ASCE 7, SECTION 12.9
SEISMIC FORCE RESISTING SYSTEM.....SFRS = STEEL SPECIAL MOMENT FRAMES
RESPONSE MODIFICATION COEFFICIENT.....R = 8
SYSTEM OVERSTRENGTH FACTOR..... Ω_0 = 3
SEISMIC IMPORTANCE FACTOR..... I_E = 1
SEISMIC BASE SHEAR..... C_S=0.094 W

GROUND MOTION: CODE DYNAMIC SPECTRA

GENERAL

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. DO NOT SCALE THE DRAWINGS. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES. IN CASE OF CONFLICT, MORE COSTLY REQUIREMENTS GOVERN FOR BIDDING. SUBMIT CLARIFICATION REQUEST PRIOR TO PROCEEDING WITH WORK.

2. ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. STRUCTURAL DRAWINGS INDICATE INFORMATION SUFFICIENT TO CONVEY DESIGN INTENT. IF ERRORS, INCONSISTENCIES OR OMISSIONS ARE DISCOVERED, THE ARCHITECT AND STRUCTURAL ENGINEER SHALL BE NOTIFIED PRIOR TO PROCEEDING WITH WORK. DEVIATION FROM THE APPROVED SET OF CONTRACT DOCUMENTS SHALL ONLY BE MADE AFTER WRITTEN APPROVAL BY THE ENGINEER OF RECORD.

3. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK. UNLESS NOTED OTHERWISE, DETAILS IN STRUCTURAL DRAWINGS ARE TYPICAL AS INDICATED BY CUTS, REFERENCES OR TITLES.

4. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES: LOCAL BUILDING CODE, AND ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY, AND THOSE CODES AND STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS.

5. SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:
   A. SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS, EXCEPT AS NOTED.
   B. SIZE AND LOCATION OF ALL INTERIOR AND EXTERIOR NON-BEARING PARTITIONS.
   C. SIZE AND LOCATION OF ALL CONCRETE CURBS, EQUIPMENT PADS, PITS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHANGE IN LEVEL, CHAMFERS, GROOVES, INSERTS, ETC.
   D. SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS EXCEPT AS SHOWN.
   E. FLOOR AND ROOF FINISHES.
   F. DIMENSIONS AND ELEVATIONS NOT SHOWN ON STRUCTURAL DRAWINGS.

6. SEE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:
   A. PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB OPENINGS, ETC., EXCEPT AS SHOWN OR NOTED.
   B. ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS.
   C. CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL, OR PLUMBING FIXTURES.
   D. SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES, ANCHOR BOLTS FOR MOTOR MOUNTS.

7. SEE CIVIL DRAWINGS FOR THE FOLLOWING:
   A. BUILDING PAD AND FINISH GRADE ELEVATIONS AT ALL STRUCTURAL FOUNDATIONS.
   B. TOP OF WALL ELEVATIONS AT SITE AND RETAINING WALLS.

8. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.

9. ALL REFERENCED STANDARDS (i.e. ACI, AISC, ASTM, ETC.) SHOWN IN THESE DOCUMENTS SHALL BE PER THE LATEST ADOPTED EDITION AS LISTED IN CHAPTER 35 OF THE CODE.

10. CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES, SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC. IF ANY SUCH STRUCTURES ARE FOUND, STRUCTURAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY.

11. CONSTRUCTION MATERIAL SHALL BE SPREAD OUT IF PLACED ON FRAMED ROOF OR FLOOR. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH.

12. ALL CONSTRUCTION MEETING OR CROSSING EXPANSION OR SHRINKAGE CONTROL JOINTS IN FRAMED FLOORS OR ROOFS MUST HAVE PROVISIONS TO ACCOMMODATE THE MOVEMENT OR MUST BE DELAYED UNTIL THE JOINT IS CLOSED.

13. CONTRACTOR TO PROVIDE A LIST OF ALL PROPOSED SUBSTITUTIONS, WITH APPLICABLE MANUFACTURER'S ICC/IAPMO REPORTS, TO ARCHITECT, ENGINEER OF RECORD AND GOVERNING JURISDICTION FOR REVIEW AND APPROVAL BEFORE FABRICATION.

14. CONTRACTOR SHALL SUBMIT A WRITTEN "STATEMENT OF RESPONSIBILITY" TO THE ARCHITECT OF RECORD AND GOVERNING JURISDICTION PRIOR TO CONSTRUCTION OF THE LATERAL FORCE RESISTING SYSTEM. THIS CONTRACTOR'S "STATEMENT OF RESPONSIBILITY" SHALL COMPLY WITH CODE SECTION 1704.4.

15. THE INTENT OF THE CONSTRUCTION DOCUMENTS IS TO RECONSTRUCT THE HOSPITAL BUILDING IN ACCORDANCE WITH THE 2019 CBSC. SHOULD ANY CONDITION DEVELOP NOT COVERED BY THE APPROVED CONSTRUCTION DOCUMENTS, WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH THE 2019 CBSC, AMENDED CONSTRUCTION (ACDs) DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITT TO AND APPROVED BY OSHPD BEFORE PROCEEDING WITH THE WORK.

16. NOTICE TO THE APPLICANT/OWNER/OWNER'S AGENT/ARCHITECT:
    BY USING THIS PERMITTED CONSTRUCTION DRAWINGS FOR CONSTRUCTION/INSTALLATION OF THE WORK SPECIFIED HEREIN, YOU AGREE TO COMPLY WITH THE REQUIREMENTS OF THE GOVERNING JURISDICTION FOR SPECIAL INSPECTIONS, STRUCTURAL OBSERVATIONS, CONSTRUCTION MATERIAL TESTING AND OFF-SITE FABRICATION OF BUILDING COMPONENTS, CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS AND, AS REQUIRED BY THE GOVERNING BUILDING CODES.

GENERAL (CONTINUED)

17. NOTICE TO THE CONTRACTOR/BUILDER/INSTALLER/SUBCONTRACTOR/OWNER BUILDER:
    BY USING THIS PERMITTED CONSTRUCTION DRAWINGS FOR CONSTRUCTION/INSTALLATION OF THE WORK SPECIFIED HEREIN, YOU ACKNOWLEDGE AND ARE AWARE OF, THE REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS. YOU AGREE TO COMPLY WITH THE REQUIREMENTS OF THE GOVERNING JURISDICTION FOR SPECIAL INSPECTIONS, STRUCTURAL OBSERVATIONS, CONSTRUCTION MATERIAL TESTING AND OFF-SITE FABRICATION OF BUILDING COMPONENTS, CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS AND, AS REQUIRED BY THE GOVERNING BUILDING CODES.

SHOP DRAWINGS / SUBMITTALS

1. THE FOLLOWING IS A PARTIAL LIST OF STRUCTURAL SHOP DRAWINGS AND SUBMITTALS. FOR ADDITIONAL SUBMITTAL REQUIREMENTS, SEE SPECIFICATIONS. UNLESS SPECIFICALLY INDICATED IN THE TABLE BELOW, ALL SUBMITTALS LISTED REQUIRE REVIEW BY THE ENGINEER OF RECORD.

SUBMITTAL ITEM	REQUIRED FOR SEOR REVIEW	ITEMS TO BE ENGINEERED BY CONTRACTOR (SEE NOTE 3)	DEFERRED APPROVAL ITEMS (SEE NOTE 4)
CONCRETE			
CONCRETE MIX DESIGNS, INCLUDING STRENGTH AND SHRINKAGE TEST RESULTS	X	X	-
REINFORCING STEEL (EXCEPT WHERE NOTED BELOW)	X	-	-
UNSPLICED REBAR AT SLAB-ON-GRADE AND SPREAD FOOTINGS.	-	-	-
FORMWORK	-	-	-
WALL SHORING AND BRACING	-	-	-
CONSTRUCTION JOINT LOCATIONS	X	-	-
MASONRY			
MASONRY BLOCK, GROUT, AND MORTAR	X	-	-
REINFORCING STEEL	X	-	-
SEGMENTED RETAINING WALLS, INCLUDING FOUNDATIONS AND HANDRAILS / GUARDRAILS WHEN ATTACHED	-	X	X
STEEL			
STRUCTURAL STEEL MILL REPORTS	-	-	-
STRUCTURAL STEEL	X	-	-
WELDING PROCEDURE SPECIFICATIONS	X	-	-
METAL DECK	X	-	-
MISCELLANEOUS STEEL SHOWN ON STRUCTURAL DRAWINGS	X	-	-
COLD-FORMED STEEL			
EXTERIOR COLD-FORMED STEEL FRAMING	X	-	-
INTERIOR NON-BEARING PARTITIONS AND SOFFITS	-	-	-
OTHER			
WINDOW MULLIONS AND ARCHITECTURAL ITEMS NORMALLY ENGINEERED BY THE CONTRACTOR	-	X	-
EXTERIOR CURTAIN WALLS, WINDOWS, AND STOREFRONT SYSTEMS	X	X	X
FLOOR LEVELNESS MEASUREMENTS	X	-	-
M.E.P. AND FIRE SPRINKLER DISTRIBUTION SYSTEM SUPPORTS AND SEISMIC BRACING INCLUDING COMPOSITE PLAN SHOWING ALL POINT LOADS TO THE STRUCTURE	X	X	X

2. GENERAL:
   A. THE STRUCTURAL SHOP DRAWING REVIEW IS INTENDED TO HELP THE ENGINEER VERIFY THE DESIGN CONCEPT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK THEIR OWN SHOP DRAWINGS PRIOR TO SUBMITTING TO THE ENGINEER OF RECORD.
   B. THE STRUCTURAL SHOP DRAWINGS WILL BE RETURNED FOR RESUBMITTAL IF A CURSORY REVIEW SHOWS MAJOR ERRORS WHICH SHOULD HAVE BEEN FOUND BY THE CONTRACTOR'S CHECKING.
   C. ANY SUBMITTAL OF A DETAIL SHEET WITH ADDED INFORMATION NOT SHOWN ON PLANS SHALL BE ACCOMPANIED BY LOCATION PLAN IDENTIFYING THE MEMBERS INVOLVED AND CLOUDING AROUND ADDED INFORMATION.
   D. THE SHOP DRAWINGS SHALL REFERENCE THE DATE OF THE CONSTRUCTION DOCUMENTS THAT THE SHOP DRAWINGS ARE BASED ON AND THE DESIGN CRITERIA USED TO PRODUCE THE SUBMITTAL.
   E. CONTRACTOR/SUBCONTRACTOR TO PROVIDE (1) ELECTRONIC COPY OF SHOP DRAWINGS FOR REVIEW BY THE ARCHITECT AND THE ENGINEER OF RECORD. WHERE PAPER COPIES ARE REQUIRED (e.g. DEFERRED APPROVAL ITEMS), PROVIDE (4) SETS OF SHOP DRAWINGS FOR REVIEW. (2) SETS WILL BECOME THE ENGINEER'S AND ARCHITECTS COPIES AND (2) SETS WILL BE RETURNED TO THE CONTRACTOR WITH REDLINES FOR PERMIT SUBMITTAL WHEN REQUIRED.

3. ITEMS TO BE ENGINEERED BY THE CONTRACTOR:
   A. ITEMS INDICATED AS BEING ENGINEERED BY THE CONTRACTOR ARE EXCLUDED FROM THE SCOPE OF THESE DRAWINGS AND SHALL BE ENGINEERED AND PROVIDED BY THE CONTRACTOR AND SUBMITTED FOR STRUCTURAL REVIEW.
   B. SUBMITTALS SHALL INCLUDED CALCULATIONS AND ARE TO BE STAMPED AND SIGNED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS TO BE CONSTRUCTED PRIOR TO SUBMITTAL. THE FULL RESPONSIBILITY OF SUCH ENGINEERING RESTS WITH THE PERSON SEALING THE DESIGN.

4. DEFERRED APPROVAL ITEMS:
   A. ITEMS INDICATED AS STRUCTURAL DEFERRED APPROVAL ITEMS SHALL BE PROVIDED BY THE CONTRACTOR AND SUBMITTED SEPARATELY. THE STRUCTURAL DEFERRED APPROVAL ITEMS SHALL INCLUDE CALCULATIONS AND DRAWINGS STAMPED AND SIGNED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS TO BE CONSTRUCTED. SEE THE ARCHITECTURAL DRAWINGS FOR A COMPLETE LIST OF DEFERRED APPROVAL ITEMS.
   B. DEFERRED APPROVAL ITEMS SHALL NOT BE SUBMITTED TO THE ARCHITECT/ENGINEER OF RECORD UNTIL THE CONSTRUCTION DOCUMENTS FOR THIS PROJECT AS A WHOLE HAVE BEEN APPROVED BY THE GOVERNING JURISDICTION.
   C. SUBMITTAL DOCUMENTS FOR DEFERRED APPROVAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER OF RECORD IN THE FORM OF A "SHOP DRAWING APPROVAL".
   D. DEFERRED APPROVAL ITEMS SHALL NOT BE SUBMITTED TO THE GOVERNING JURISDICTION UNTIL THEY HAVE BEEN REVIEWED BY THE ARCHITECT/ENGINEER OF RECORD WITH NO REMAINING ITEMS TO BE CORRECTED.
   E. DEFERRED APPROVAL ITEMS SHALL NOT BE INSTALLED NOR SHALL INSPECTIONS OF DEFERRED APPROVAL ITEMS BE AUTHORIZED PRIOR TO THE APPROVAL BY THE GOVERNING JURISDICTION.
   F. DEFERRED APPROVAL DOCUMENTS SHALL BE SUBMITTED SUFFICIENTLY IN ADVANCE OF INSTALLATION TO ALLOW FOR MODIFICATIONS RESULTING FROM DESIGN TEAM AND GOVERNING JURISDICTION REVIEW.

5. SUBMITTALS FOR STEEL PART OF SEISMIC FORCE RESISTING SYSTEM SFRS.
   A. PROVISION FOR WELDING HEAT EFFECTS: A SEQUENCE OF FIELD WELDING SHALL BE PLANNED TO MINIMIZE LOCKED IN STRESSES AND DISTORTION AND SHALL BE SUBMITTED TO THE ENGINEER AT TIME OF SHOP DRAWING SUBMITTAL. ANY PROPOSED DEVIATIONS FROM THE DETAILS SHOWN ON THE DRAWINGS SHALL BE APPROVED BY THE ENGINEER. THE PROCEDURES AND THE DETAILS USED SHALL RESULT IN COMPLETED CONNECTIONS, WHICH ARE IN FULL COMPLIANCE WITH THE INTENT OF THE DETAILS SHOWN ON THE DRAWINGS AND SPECIFICATIONS. THE SEQUENCE OF FIELD WELDING, BOTH IN THE JOINTS AND FRAMES AS A WHOLE, SHALL BE SUBMITTED TO THE GOVERNING JURISDICTION FOR APPROVAL. NO FIELD WELDING SHALL BE PERFORMED PRIOR TO SAID JURISDICTION APPROVAL.
   B. SUBMIT ALL REQUIRED ITEMS PER SECTION J2 OF CHAPTER J OF AISC 341.

STRUCTURAL OBSERVATIONS

STRUCTURAL OBSERVATION PER THE REQUIREMENTS OF THE CODE IS REQUIRED. THE STRUCTURAL ENGINEER WILL VISIT THE PROJECT AT THE FOLLOWING STAGES OF CONSTRUCTION:

ITEM	STAGE
FOUNDATION REINFORCING	BEFORE FIRST POUR
SLAB ON GRADE REINFORCING	AS DETERMINED BY E.O.R.
STRUCTURAL STEEL	AFTER ERECTION
METAL DECK AND REINFORCING	AFTER ERECTION
STEEL MOMENT FRAME WELDING	AFTER ERECTION

1. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE INSPECTIONS REQUIRED BY THE CODE.

2. ALL OBSERVED DEFICIENCIES SHALL BE REPORTED IN WRITING TO THE OWNER'S REPRESENTATIVE, SPECIAL INSPECTOR, AND CONTRACTOR.
   A. THE CONTRACTOR SHALL ENSURE THAT ALL DEFICIENCIES NOTED BY THE STRUCTURAL ENGINEER IN STRUCTURAL OBSERVATION REPORTS ARE CORRECTED. SUCH COMPLIANCE SHALL BE REPORTED IN WRITING TO THE ENGINEER OF RECORD.
   B. THE SPECIAL INSPECTOR SHALL ENSURE THAT ALL DEFICIENCIES, RELATED TO SPECIAL INSPECTION TABLES, NOTED BY THE STRUCTURAL ENGINEER IN STRUCTURAL OBSERVATION REPORTS ARE CORRECTED. SUCH COMPLIANCE SHALL BE REFERENCED IN SPECIAL INSPECTOR REPORT.
   C. THE STRUCTURAL OBSERVER SHALL SUBMIT A FINAL WRITTEN STATEMENT TO THE GOVERNING JURISDICTION THAT SITE VISITS HAVE BEEN MADE AND IDENTIFYING ANY REPORTED DEFICIENCIES THAT HAVE NOT BEEN RESOLVED. THE STRUCTURE WILL NOT BE IN COMPLIANCE UNTIL THE DESIGNER HAS NOTIFIED THE GOVERNING JURISDICTION THAT ALL DEFICIENCIES ARE RESOLVED.

MEP COORDINATION

1. THE STRUCTURAL PLANS INDICATE ONLY THE APPROXIMATE LOCATION OF MECHANICAL, ELECTRICAL AND OTHER EQUIPMENT, AS WELL AS THE RELATED FRAMING NECESSARY TO SUPPORT SUCH EQUIPMENT. THE FINAL POSITIONING OF THESE ITEMS IS DEPENDENT UPON THE EQUIPMENT PROVIDED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WORK BETWEEN SUBCONTRACTORS AND MANUFACTURERS.

2. THE FOLLOWING IS A LIST OF ITEMS THAT THE GENERAL CONTRACTOR NEEDS TO COORDINATE WITH THE MECHANICAL, ELECTRICAL AND PLUMBING CONTRACTORS. THIS LIST IS INTENDED TO BE AN AID TO THE CONTRACTOR AND IT IS NOT NECESSARILY ALL-INCLUSIVE.
   A. CONDUITS EMBEDDED IN SLABS MUST BE APPROVED BY THE STRUCTURAL ENGINEER. SUBMIT LAYOUT PLANS FOR APPROVAL BEFORE INSTALLATION.
   B. CONDUITS CANNOT BE EMBEDDED IN CONCRETE SLABS OVER METAL DECK.
   C. SLEEVES THROUGH SLABS FOR MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SPRINKLERS MUST BE APPROVED BY THE STRUCTURAL ENGINEER. SUBMIT LAYOUT PLANS FOR APPROVAL BEFORE INSTALLATION. ALSO SEE GENERAL, CONCRETE, AND SHOP DRAWINGS/SUBMITTALS NOTE SECTIONS.
   D. PENETRATIONS ARE NOT ALLOWED THROUGH CONCRETE SHEAR WALLS, CONCRETE BEAMS OR CONCRETE COLUMNS UNLESS SPECIFICALLY SHOWN ON THESE DRAWINGS. FOR OTHER PENETRATIONS, SUBMIT A LAYOUT PLAN TO THE STRUCTURAL ENGINEER FOR REVIEW.
   E. SLABS THAT ARE POST TENSIONED SHOULD NOT BE DRILLED WITHOUT LOCATING TENDONS.
   F. SEE THE POST-INSTALLED CONCRETE ANCHORS NOTE SECTION FOR ATTACHMENT INTO CONCRETE.
   G. SUPPORT OF PIPES, CONDUITS, AND OR/DUCTS AS REQUIRED BY CODE. SEE NOTE 3.

3. SUPPORT PIPES, DUCTS, AND/OR CONDUITS PER THE MOST RECENT OSHPD PRE-APPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) ANCHORAGE SYSTEMS AS APPLICABLE FOR USE. PROVIDE THE OSHPD INSPECTOR OF RECORD WITH INFORMATION ON THE SYSTEM WHICH WILL BE USED PRIOR TO INSTALLATION.
   A. THE OSHPD PRE-APPROVED SEISMIC RESTRAINT SYSTEMS ARE:
      ·ANVIL INTERNATIONAL: SEISMIC SWAY BRACING FOR FIRE PROTECTION SYSTEMS (OPM-0351-13)
      · B-LINE/TOLCO: SEISMIC BRACING AND SUPPORT SYSTEMS (OPM-0052-13)
      ·ERICO INDUSTRIES: SEISMIC SWAY BRACING FOR FIRE SPRINKLER SYSTEMS (OPM-0062-13)
      ·ISAT: DISTRIBUTION SYSTEM SUPPORTS AND ATTACHMENTS (OPM-0403-13)
      ·MASON INDUSTRIES: SEISMIC RESTRAINT COMPONENTS FOR SUSPENDED UTILITIES (OPM-0043-13)
      · POWER-STRUT: SEISMIC BRACING / STRUT AND FITTINGS (OPM-0294-13)
      ·UNISTRUT: SEISMIC BRACING / STRUT AND FITTINGS (OPM-0347-13)
   B. LAYOUT DRAWINGS OF THE SUPPORTS, ATTACHMENTS, AND BRACING SYSTEMS IN ACCORDANCE WITH THE PRE-APPROVAL SHALL BE SUBMITTED TO THE REGISTERED DESIGN PROFESSIONAL (RDP) IN RESPONSIBLE CHARGE OF THE PROJECT FOR REVIEW TO VERIFY THAT THE DETAILS ARE IN CONFORMANCE WITH THE CODE REQUIREMENTS. THE LAYOUT DRAWINGS SHALL AS A MINIMUM SATISFY THE REQUIREMENTS OF ASCE 7, SECTION 13.6 AS MODIFIED BY THE 2019 CBC, SECTION 1617A, AND SHOULD INCLUDE A PLAN SHOWING THE EXACT LOCATIONS OF ALL PIPING, DUCTS, AND/OR CONDUITS AND THEIR ASSOCIATED BRACING LOCATIONS. A COMPOSITE PLAN SHOWING ALL POINT LOADS TO THE STRUCTURE SHALL BE PROVIDED FOR REVIEW AND APPROVAL BY THE RDP.

   THE STRUCTURAL ENGINEER OF RECORD (SEOR) SHALL VERIFY THAT THE SUPPORTING STRUCTURE IS ADEQUATE FOR THE FORCES IMPOSED ON IT BY THE SUPPORTS, ATTACHMENTS, AND BRACES INSTALLED IN ACCORDANCE WITH THE PRE-APPROVAL IN ADDITION TO ALL OTHER LOADS.

   THE SEOR SHALL FORWARD THE SUPPORTS, ATTACHMENTS, AND BRACING DRAWINGS (INCLUDING APPROVED AMENDED CONSTRUCTION DOCUMENTS FOR SUPPLEMENTARY FRAMING WHERE REQUIRED) TO THE DISCIPLINE IN RESPONSIBLE CHARGE WITH A NOTATION INDICATING THAT THE DRAWINGS HAVE BEEN REVIEWED AND ARE IN GENERAL CONFORMANCE WITH THE PRE-APPROVAL AND THE DESIGN OF THE PROJECT. A "SHOP DRAWING STAMP" MAY BE USED TO INDICATE COMPLIANCE WITH THIS REQUIREMENT.

   THE REGISTERED DESIGN PROFESSIONAL, OTHER THAN THE SEOR, MAY PROVIDE THE SHOP DRAWING STAMP FOR SMALL PROJECTS AT THE DISCRETION OF THE OSHPD DISTRICT STRUCTURAL ENGINEER.

   C. THE SEOR SHALL DESIGN ANY SUPPLEMENTAL FRAMING THAT IS NEEDED TO RESIST THE LOADS, MAINTAIN STABILITY, AND/OR IS REQUIRED FOR INSTALLATION OF THE PRE-APPROVED SYSTEM. THE SUPPLEMENTARY FRAMING SHALL BE SUBMITTED TO OSHPD AS AN AMENDED CONSTRUCTION DOCUMENT (ACD).

   D. THE LAYOUT DRAWINGS (WITH THE SHOP DRAWING STAMP) SHALL BE SUBMITTED TO OSHPD TO REVIEW:
      ·STRUCTURE SUPPORTING THE DISTRIBUTION SYSTEM HAS ADEQUATE CAPACITY
      ·SEISMIC DESIGN FORCES (Fp) ARE IN ACCORDANCE WITH THE CODE.
      ·VERIFY THAT THE SUBMITTAL IS WITHIN THE SCOPE OF OSHPD PRE-APPROVAL OF MANUFACTURER'S CERTIFICATION (OPM). REVIEWED ITEMS INCLUDE: SIZE OF DISTRIBUTION SYSTEM COMPONENTS, SPACING OF BRACING AND FLEXIBLE JOINTS, AND SUBSTRATE FOR ATTACHMENTS.

   E. THE LAYOUT DRAWINGS (WITH THE SHOP DRAWING STAMP) SHALL BE KEPT ON THE JOBSITE AND CAN THEN BE USED FOR INSTALLATION OF THE SUPPORT AND BRACING. OSHPD FIELD STAFF WILL REVIEW THE INSTALLATION.

   F. A COPY OF THE CHOSEN BRACING SYSTEM(S) INSTALLATION GUIDE/OPM MANUAL SHALL BE ON THE JOB SITE PRIOR TO STARTING THE INSTALLATION OF THE HANGERS AND/OR BRACES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COPIES OF OSHPD OPM AND FURNISH THE IOR WITH ONE COPY OF EACH.

   G. COMPONENTS OF TWO OR MORE PRE-APPROVED BRACING SYSTEMS SHALL NOT BE MIXED. ONLY ONE PRE-APPROVED BRACING SYSTEM MAY BE USED FOR A RUN OF PIPE, DUCT, OR CONDUIT. ANY SUBSTITUTION OF A COMPONENT OF AN OPM SHALL REQUIRE OSHPD REVIEW AND APPROVAL.

   H. SOME PRE-APPROVED SEISMIC RESTRAINT SYSTEMS HAVE LIMITATIONS THAT REQUIRE EITHER A DEFERRED SUBMITTAL OF LAYOUT DRAWINGS OR SUBMITTAL AS PART OF THE CONSTRUCTION DOCUMENTS. ALL OF THE PRE-APPROVED SYSTEMS REQUIRE THAT THE SEISMIC LATERAL FORCE, Fp, INCLUDING THE CONSIDERATION OF Ap AND Rp BE DETERMINED AT EACH LEVEL OF THE BUILDING SO THAT BRACE SPACING, SUPPORTS, AND ATTACHMENT REQUIREMENTS CAN BE DETERMINED. THE OSHPD DISTRICT STRUCTURAL ENGINEER MAY APPROVE THE SEISMIC LATERAL FORCE COMPUTATIONS.

4. FIRE SPRINKLER PIPING SPACING AND DETAILS OF THE SUPPORT, ATTACHMENTS, AND BRACING SHALL COMPLY WITH THE NFPA 13 AS MODIFIED BY THE 2016 CBC, SECTION 1616A AND SFM AMENDMENTS. PROVIDE DETAILS AND CALCULATIONS FOR THE SWAY BRACING SUPPORTS AND THEIR ATTACHMENTS TO THE STRUCTURE. WHERE APPLICABLE, DETAILS FOR THE SUPPORTS, ATTACHMENTS, AND BRACING MAY BE REFERRED TO AN OSHPD PRE-APPROVAL OF MANUFACTURER'S CERTIFICATION (OPM). ALL LAYOUT DRAWINGS OF THE SPRINKLER SYSTEM SHALL BE SUBMITTED TO OSHPD FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.

FOUNDATION

1. FOUNDATION DESIGN BASED ON THE FOLLOWING SOILS REPORT:
   COMPANY: CTE.
   PROJECT NO: 10-15342G.
   DATE: JANUARY 6, 2020.

2. FOOTINGS ARE DESIGNED BASED ON THE FOLLOWING INFORMATION:
   ALLOWABLE BEARING * = 3000 PSF
   EQUIVALENT FLUID PRESSURE = 35 PCF: UNRESTRAINED
   = 55 PCF: RESTRAINED
   PASSIVE EARTH PRESSURE = 250 PCF
   COEFFICIENT OF FRICTION = .3
   * ALLOWABLE BEARING MAY BE INCREASED BY 1/3 FOR WIND AND SEISMIC LOAD CASES.

3. FOOTINGS SHALL BEAR ON APPROVED COMPACTED FILL PER THE SOILS REPORT. VERIFY FOOTING ELEVATION WITH THE CIVIL DRAWINGS. MINIMUM DEPTH AND DIMENSIONS OF FOOTINGS SHALL BE AS FOLLOWS:
   MINIMUM DEPTH BELOW LOWEST ADJACENT GRADE.....2'-6" FT
   MINIMUM WIDTH.....1'-6" FT

4. SLABS ON GRADE SHALL BEAR ON APPROVED SUBGRADE PER THE RECOMMENDATIONS OF THE SOILS REPORT.

5. CONTRACTOR TO PROVIDE FOR DE-WATERING OF EXCAVATIONS FROM EITHER SURFACE WATER, GROUND WATER, OR SEEPAGE, IF REQUIRED.

6. CONTRACTOR SHALL PROVIDE FOR DESIGN AND INSTALLATION OF ALL CRIBBING, SHEATHING, AND SHORING REQUIRED AND SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS, AND UTILITIES IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL SAFETY ORDINANCES.

7. ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED. DO NOT PLACE BACKFILL BEHIND RETAINING WALLS BEFORE CONCRETE OR GROUT IN THE WALLS AND SLABS RESTRAINING THE WALLS HAVE ATTAINED FULL DESIGN STRENGTH. CONTRACTOR SHALL BRACE OR PROTECT ALL BUILDING AND PIT WALLS BELOW GRADE FROM LATERAL LOADS UNTIL ATTACHED FLOORS ARE COMPLETELY IN PLACE AND HAVE ATTAINED FULL STRENGTH. CONTRACTOR SHALL PROVIDE FOR DESIGN, PERMITS, AND INSTALLATION OF SUCH BRACING.

8. FOUNDATIONS SHALL BE PLACED AND ESTIMATED ACCORDING TO DEPTHS SHOWN ON DRAWINGS. SHOULD SOIL ENCOUNTERED AT THESE DEPTHS NOT BE APPROVED BY THE INSPECTOR OR SOILS ENGINEER, FOUNDATION ELEVATIONS WILL BE ALTERED.

9. FOOTING BACKFILL AND UTILITY TRENCH BACKFILL WITHIN BUILDING AREA SHALL BE MECHANICALLY COMPACTED IN LAYERS IN ACCORDANCE WITH THE SOILS REPORT AND APPROVED BY THE SPECIAL INSPECTOR.

10. ALL ABANDONED FOOTINGS, UTILITIES, ETC. SHALL BE REMOVED.

11. DO NOT DE-TENSION SOIL TIEBACKS UNTIL ALL ATTACHED SLABS, CLOSURE STRIPS AND PERPENDICULAR CONCRETE AND CMU WALLS ARE IN PLACE AND HAVE CURED.

12. REMOVE CONTAMINATED SOILS AS REQUIRED PER THE SOILS REPORT.

13. SOIL REMOVAL AND RECOMPACTION SHALL BE PER THE SOILS REPORT AND APPROVED CONTRACT DOCUMENTS.

14. ALL ROOF AND AREA DRAINAGE SHALL BE DIRECTED AWAY FROM FOUNDATIONS.

15. PRIOR TO TH

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SPECIAL SEISMIC CERTIFICATION OF EQUIPMENT AND COMPONENTS:

1. ALL MEDICAL, MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT NOTED AS REQUIRING "SPECIAL SEISMIC CERTIFICATION" (SSC) IN THE EQUIPMENT SCHEDULE SHOWN ON THE STRUCTURAL DRAWINGS MUST BE CERTIFIED BY THE MANUFACTURER AS OPERABLE FOLLOWING THE DESIGN EARTHQUAKE BASED ON ANALYSIS, TESTING, OR EXPERIENCE DATA, AS REQUIRED PER SECTION 1705.13.3 OF THE CODE.

2. SPECIAL SEISMIC CERTIFICATION SHALL BE REQUIRED FOR THE FOLLOWING SYSTEMS, EQUIPMENT AND COMPONENTS:

   A. LIFE-SAFETY COMPONENTS, SUCH AS EMERGENCY AND STANDBY POWER SYSTEMS, MECHANICAL SMOKE REMOVAL SYSTMS, AND FIRE SPRINKLER / FIRE PROTECTION SYSTEMS.
   B. MEDICAL, MECHANICAL, AND ELECTRICAL EQUIPMENT AND COMPOENTES REQUIRED FOR LIFE SUPPORT FOR PATIENTS. SEE 2019 CBC, SECTION 1705A.13.3.

3. SSC EQUIPMENT SHALL BE QUALIFIED BY A VALID OSHPD SEISMIC PRE-APPROVAL (OSP) INDICATING THAT THE EQUIPMENT IS ACCEPTABLE FOR USE AS A DESIGNATED SEISMIC SYSTEM (DSS).

4. IT IS CTHE CONTRACTOR'S RESPONSIBILITY AND COST, ALONG WITH THE EQUIPMENT MANUFACTURER, TO PROVIDE SPECIAL SEISMIC CERTIFICATION FOR ALL APPLICABLE EQUIPMENT AS SHOWN ON THE ARECHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND/OR ELECTRICAL SCHEDULES.

5. THE EQUIPMENT SHALL BE INSTALLED WITH A NAMEPLATE THAT INCLUDES THE FOLLOWING INFORMATION:

   A. MANUFACTURER
   B. MODEL NUMBER
   C. DATE OF MANUFACTURE
   D. OSHPD PROJECT #S14XXXXX-XX-XX (AS PROVIDED ON THE APPROVED DRAWINGS)
   E. LISTING AGENCY (I.E. OSHPD), IF APPLICABLE
   F. CERTIFICATION # (I.E. OSP-XXXX-XX), IF APPLICABLE

6. THE CONTRACTOR SHALL CONFIRM THAT THE PIECE OF EQUIPMENT BEING INSTALLED MATCHES THE MANUFACTURER, MODEL NUMBER, WEIGHT, AND DIMENSIONS AS LISTED ON THE APPROVED DRAWINGS AND OSP.

7. INSPECTOR OF RECORD (IOR) SHALL VERIFY THAT THE EQUIPMENT AND COMPONENTS LISTED AS REQUIRING SSC ARE PRE-APPROVED WITH THE OSHPD OSP LISTED IN THE EQUIPMENT SCHEDULE OR THAT THE SITE SPECIFIC SSC HAS BEEN APPROVED BY OSHPD, PRIOR TO EQUIPMENT INSTALLATION. THE IOR SHALL EXAMINE THE EQUIPMENT AND COMPONENTS REQUIRING SSC AND VERIFY THAT THE LABEL, ANCHORAGE, AND/OR MOUNTING CONFORMS TO THE APPROVED CONSTRUCTION DRAWINGS AND CERTIFICATE OF COMPLIANCE.

SPECIAL INSPECTION

1. ALL SPECIAL INSPECTIONS AND TESTING SHALL BE IN CONFORMANCE WITH CHAPTER 17 OF THE CODE. THE OWNER IS RESPONSIBLE FOR RETAINING AN APPROVED AGENCY TO PERFORM SPECIAL INSPECTIONS FOR THIS PROJECT.

2. THE SPECIAL INSPECTION TABLES LISTED BELOW ARE PARTIAL EXCERPTS OF THE TABLES LISTED IN THE CODE AND ADDITIONAL SPECIAL INSPECTION REQUIREMENTS OF THIS PROJECT. IT IS THE RESPONSIBILITY OF THE SPECIAL INSPECTOR TO CONFORM WITH ALL ASPECTS OF OF THE CODE AND STANDARDS REFERENCED BY CHAPTER 17.

3. THE SPECIAL INSPECTORS MUST BE CERTIFIED BY THE GOVERNING JURISDICTION IN THE CATEGORY OF WORK REQUIRED TO HAVE SPECIAL INSPECTION.
   EXCEPTIONS:

   A. SOILS INSPECTIONS BY THE SOILS ENGINEER OF RECORD
   B. SMOKE CONTROL SYSTEM, BY THE MECHANICAL ENGINEER OF RECORD
   C. WHEN WAIVED BY THE GOVERNING JURISDICTION

4. THE CONSTRUCTION MATERIALS TESTING LABORATORY MUST BE APPROVED BY THE GOVERNING JURISDICTION FOR TESTING OF MATERIALS, SYSTEMS, COMPONENTS AND EQUIPMENTS.

5. THE SPECIAL INSPECTIONS IDENTIFIED ON PLANS ARE IN ADDITION TO, AND NOT A SUBSTITUTE FOR, THOSE INSPECTIONS REQUIRED TO BE PERFORMED BY THE GOVERNING JURISDICTION. SPECIALLY INSPECTED WORK WHICH IS INSTALLED OR COVERED WITHOUT THE APPROVAL OF AN INSPECTOR FROM THE GOVERNING JURISDICTION IS SUBJECT TO REMOVAL OR EXPOSURE.

6. FOR CONTINUOUS INSPECTION, WHEN WORK IN MORE THAN ONE CATEGORY OF WORK REQUIRING SPECIAL INSPECTION IS TO BE PERFORMED SIMULTANEOUSLY, OR THE GEOGRAPHIC LOCATION OF THE WORK IS SUCH THAT IT CANNOT BE CONTINUOUSLY OBSERVED IN ACCORDANCE WITH THE PROVISIONS OF THE CODE, IT IS THE AGENT'S RESPONSIBILITY TO EMPLOY A SUFFICIENT NUMBER OF INSPECTORS TO ASSURE THAT ALL WORK IS INSPECTED IN ACCORDANCE WITH THOSE PROVISIONS.

7. PERIODIC INSPECTION SHALL OCCUR FREQUENTLY ENOUGH TO INSPECT ALL OF THE INSTALLED ITEMS AND TO PERIODICALLY WITNESS THE INSTALLATION OF THE ITEMS.

8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM THE SPECIAL INSPECTOR OR INSPECTION AGENCY AT LEAST ONE WORKING DAY PRIOR TO PERFORMING ANY WORK THAT REQUIRES SPECIAL INSPECTION. ALL WORK PERFORMED WITHOUT REQUIRED SPECIAL INSPECTION IS SUBJECT TO REMOVAL.

9. THE SPECIAL INSPECTOR SHALL PROVIDE WEEKLY REPORTS AND A FINAL REPORT TO THE STRUCTURAL ENGINEER.

10. THE SPECIAL INSPECTOR SHALL ENSURE THAT ALL DEFICIENCIES RELATED TO THE SPECIAL INSPECTION TABLES NOTED BY THE STRUCTURAL ENGINEER IN STRUCTURAL OBSERVATION REPORTS ARE CORRECTED. SUCH COMPLIANCE SHALL BE REFERENCED IN SPECIAL INSPECTOR REPORT.

SOIL: SPECIAL INSPECTION TASK	CONTINUOUS	PERIODIC
1. VERIFY MATERIAL BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	-	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-	X
3. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS.	-	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL.	X	-
5. PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	-	X

CONCRETE: SPECIAL INSPECTION TASK	CONTINUOUS	PERIODIC
1. INSPECTION OF REINFORCING STEEL, SHEAR STUDS, AND PLACEMENT.	-	X
2. INSPECTION OF REINFORCING STEEL WELDING:		
A. VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A706.	-	X
3. INSPECTION OF BOLTS AND EMBED PLATES TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE.	-	X
4. POST INSTALLED ANCHORS IN HARDENED CONCRETE MEMBERS (SEE KEYNOTE 1).	-	X
5. VERIFYING USE OF REQUIRED DESIGN MIX.	-	X
6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	-
8. MAINTENANCE OF THE SPECIFIED CURING TEMPERATURE AND TECHNIQUES	-	X

CONCRETE SPECIAL INSPECTION KEYNOTES:

1. THE SPECIAL INSPECTOR FOR ADHESIVE ANCHORS SHALL VERIFY THE DRILLING OF ANY HOLES, THE CLEANLINESS OF THE HOLE, THE MOISTURE IN THE HOLE, MIXING THE ADHESIVE, THE BRAND OF ADHESIVE, AND THE PROPER MATERIAL FOR ASSEMBLY.

MECHANICAL, ELECTRICAL AND PLUMBING ELEMENTS: SPECIAL INSPECTION TASK	CONTINUOUS	PERIODIC
1. ELECTRICAL EQUIPMENT USED IN EMERGENCY OR STANDBY POWER SYSTEMS (AND ALL OTHERS IN SDC 'E' OR 'F'), AND THEIR ANCHORAGE.	-	X
2. VIBRATION ISOLATION SYSTEMS, WHERE THE CONSTRUCTION DOCUMENTS REQUIRE A NOMINAL CLEARANCE OF 1/4" OR LESS BETWEEN THE EQUIPMENT SUPPORT FRAME AND RESTRAINT, FOR THEIR INSTALLATION AND ANCHORAGE.	-	X

ENGINEERING NOTE: REQUIRED FOR BUILDINGS WITH A LEVEL I, II, OR III OCCUPANCY CATEGORY.

MASONRY: SPECIAL INSPECTION TASK (LEVEL B) PER ACI 530 TABLE 1.19.2	CONTINUOUS	PERIODIC
1. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED.	-	X
2. VERIFICATION OF f'm PRIOR TO CONSTRUCTION EXCEPT WHERE SPECIFICALLY EXEMPTED BY CODE.	-	X
3. VERIFICATION OF SLUMP FLOW AND VSI AS DELIVERED TO THE SITE FOR SELF-CONSOLIDATING GROUT.	X	-
4. AT THE BEGINNING OF THE MASONRY CONSTRUCTION, THE FOLLOWING SHALL BE VERIFIED		
A. PROPORTIONS OF SITE PREPARED MORTAR.	-	X
B. CONSTRUCTION OF MORTAR JOINTS	-	X
C. LOCATION OF REINFORCEMENT, CONNECTORS, PRESTRESSING TENDONS AND ANCHORAGES.	-	X
D. PRESTRESSING TECHNIQUE.	X	-
5. DURING CONSTRUCTION THE INSPECTION PROGRAM SHALL VERIFY		
A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS	-	X
B. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION.	X	-
C. SPECIFIED SIZE, GRADE, AND TYPE OF REINFORCEMENT	-	X
D. WELDING OF REINFORCING BARS.	X	-
E. PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°) OR HOT WEATHER (TEMPERATURE ABOVE 90°)	-	X
F. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.	X	-
6. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED:		
A. GROUT SPACE IS CLEAN.	-	X
B. PLACEMENT OF REINFORCEMENT, CONNECTORS, PRESTRESSING TENDONS AND ANCHORAGE.	-	X
C. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS	-	X
D. CONSTRUCTION OF MORTAR JOINTS.	-	X
7. GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS.	X	-
A. GROUTING OF PRESTRESSING BONDED TENDONS	X	-
8. PREPARATION OF ANY REQUIRED GROUT AND MORTAR SPECIMENS AND/OR PRISMS.	X	-
9. POST-INSTALLED ANCHORS (SEE KEYNOTE 1).	-	X

MASONRY SPECIAL INSPECTION KEYNOTES:

1. THE SPECIAL INSPECTOR FOR ADHESIVE ANCHORS SHALL VERIFY THE DRILLING OF ANY HOLES, THE CLEANLINESS OF THE HOLE, THE MOISTURE IN THE HOLE, MIXING THE ADHESIVE, THE BRAND OF ADHESIVE, AND THE PROPER MATERIAL FOR ASSEMBLY.

ARCHITECTURAL ELEMENTS: SPECIAL INSPECTION TASK	CONTINUOUS	PERIODIC
1. ERECTION AND FASTENING OF CLADDING, WALL PANELS, AND VENEER:		
A. EXTERIOR CLADDING, INTERIOR AND EXTERIOR NON-BEARING WALLS, AND INTERIOR AND EXTERIOR VENEER GREATER THAN 30-FEET IN HEIGHT ABOVE GRADE OR WALKING SURFACES.	-	X
B. EXTERIOR CLADDING AND INTERIOR AND EXTERIOR VENEER WEIGHING MORE THAN 5 PSF.	-	X
C. INTERIOR NON-BEARING WALLS WEIGHING MORE THAN 15 PSF.	-	X
2. SUSPENDED CEILING SYSTEMS AND THEIR ANCHORAGE.	-	X
3. ACCESS FLOORS AND THEIR ANCHORAGE.	-	X
4. STEEL STORAGE RACKS AND THEIR ANCHORAGE.	-	X

STRUCTURAL STEEL: QUALITY ASSURANCE (QA) SPECIAL INSPECTION PER AISC 360, CHAPTER N AND AISC 341, CHAPTER J	PERFORM	OBSERVE	DOCUMENT
1. VERIFY FABRICATOR AND ERECTOR QUALITY CONTROL (QC) PROGRAM PER AISC 360, SECTION N2	X	-	-
2. INSPECTION TASKS PRIOR TO WELDING PER AISC 360 TABLE N5.4-1 AND AISC 341 TABLE J6-1: (SEE KEYNOTE 3)			
A. WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE.	X	-	-
B. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE.	X	-	-
C. MATERIAL IDENTIFICATION (TYPE/GRADE).	-	X	-
D. WELDER IDENTIFICATION SYSTEM (SEE KEYNOTE 1)	-	X	-
E. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY); JOINT PREPARATION, DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL), CLEANLINESS (CONDITION OF STEEL SURFACES), TACKING (TACK WELD QUALITY AND LOCATION), BACKING TYPE AND FIT (IF APPLICABLE).	-	X	-
F. CONFIGURATION AND FINISH OF ACCESS HOLES.	-	X	-
G. FIT-UP OF FILLET WELDS; DIMENSIONS (ALIGNMENT, GAPS AT ROOT), CLEANLINESS (CONDITION OF STEEL SURFACES), TACKING (TACK WELD QUALITY AND LOCATION).	-	X	-
H. CHECK WELDING EQUIPMENT.	-	X	-
3. INSPECTION TASKS DURING WELDING PER AISC 360 TABLE N5.4-2 AND AISC 341 TABLE J6-2: (SEE KEYNOTE 3)			
A. USE OF QUALIFIED WELDERS.	-	X	-
B. CONTROL AND HANDLING OF WELDING CONSUMABLES; PACKAGING, EXPOSURE CONTROL.	-	X	-
C. NO WELDING OVER CRACKED TACK WELDS.	-	X	-
D. ENVIRONMENTAL CONDITIONS; WIND SPEED WITHIN LIMITS, PRECIPITATION AND TEMPERATURE.	-	X	-
E. WPS FOLLOWED: SETTING ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.), PROPER POSITION (F,V,H,OH), INTERMIX OF FILLER METALS AVOIDED UNLESS APPROVED	-	X	-
4. INSPECTION TASKS AFTER WELDING PER AISC 360 TABLE N5.4-3 AND AISC 341 TABLE J6-3: (SEE KEYNOTE 3)			
A. WELDS CLEANED.	-	-	-
B. SIZE, LENGTH AND LOCATION OF WELDS.	X	-	-
C. WELDS MEET VISUAL ACCEPTANCE CRITERIA; CRACK PROHIBITION, WELD/BASE-METAL FUSION, CRATER CROSS SECTION, WELD PROFILES, WELD SIZE, UNDERCUT, POROSITY.	X	-	X
D. ARC STRIKES.	X	-	-
E. K-AREA (SEE KEYNOTE 2)	X	-	-
F. PLACEMENT OF REINFORCING OR CONTOURING FILLET WELDS (IF REQUIRED).	X	-	X
F. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED).	X	-	X
G. REPAIR ACTIVITIES.	X	-	X
H. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER.	X	-	X
5. INSPECTION TASKS PRIOR TO BOLTING PER AISC 360 TABLE N5.6-1 AND AISC 341 TABLE J7-1:(SEE KEYNOTES 4, 5 & 6)			
A. MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS.	X	-	-
B. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS.	-	X	-
C. PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE).	-	X	-
D. PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL.	-	X	-
E. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	-	X	-
F. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED.	-	X	X
G. PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS.	-	X	-
6. INSPECTION TASKS DURING BOLTING PER AISC 360 TABLE N5.6-2 AND AISC 341 TABLE J7-2: (SEE KEYNOTES 4, 5 & 6)			
A. FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED.	-	X	-
B. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION.	-	X	-
C. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING.	-	X	-
D. FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES.	-	X	-
7. INSPECTION TASKS AFTER BOLTING PER AISC 360 TABLE N5.6-3 AND AISC 341 TABLE J7-3: (SEE KEYNOTES 5 & 6)			
A. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS.	X	-	X
8. NON-DESTRUCTIVE TESTING OF WELDED JOINTS PER AISC 341, SECTION J6.2:			
A. WELDS PERFORMED IN k-AREA	X	-	X
B. CJP GROOVE WELDS	X	-	X
C. BASE METAL THICKER THAN 1/2"	X	-	X
D. BEAM COPES AND ACCESS HOLES	X	-	X
E. REDUCED BEAM SECTION REPAIR	X	-	X
F. WELD TAB REMOVAL SITES	X	-	X
9. INSPECTION OF STEEL ELEMENTS OF COMPOSITE CONSTRUCTION PRIOR TO CONCRETE PLACEMENT PER AISC 360 TABLE N6-1:			
A. PLACEMENT AND INSTALLATION OF STEEL DECK.	X	-	-
B. PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS.	X	-	-
C. DOCUMENT ACCEPTANCE OR REJECTION OF STEEL ELEMENTS.	X	-	-

	CONTINUOUS	PERIODIC
10. INSPECTION OF COLD-FORMED STEEL DECK PER CODE TABLE 1705.2.2		
A. MATERIAL VERIFICATION OF COLD-FORMED STEEL DECK.	-	X
B. WELDING OR OTHER ATTACHMENTS OF METAL DECK TO STRUCTURE.	-	X
11. SPRAYED FIRE-RESISTANT MATERIAL.	-	X

STEEL SPECIAL INSPECTION KEYNOTES:

1. THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE.

2. WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 IN. (75 MM) OF THE WELD.

3. THE SPECIAL INSPECTIONS NOTED IN ITEMS 2, 3, AND 4 ARE NOT REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED BY THE GOVERNING JURISDICTION. THE SPECIAL

4. INSPECTIONS NOTED IN ITEMS 5 AND 6 ARE NOT REQUIRED FOR SNUG-TIGHT JOINTS.

5. PROVIDE SPECIAL INSPECTION FOR CONNECTIONS BOLTED WITH A325 AND A490 BOLTS. INSPECTIONS SHALL BE DONE PER APPROVED NATIONALLY RECOGNIZED STANDARDS AND THE REQUIREMENTS OF THE CODE AND THE GOVERNING JURISDICTION. WHILE THE WORK IS IN PROGRESS, THE SPECIAL INSPECTOR SHALL DETERMINE THE BOLTS, NUTS, WASHERS AND PAINT; BOLTED PARTS; AND INSTALLATION AND TIGHTENING MEET THE STANDARDS REQUIREMENTS.
6. THE SPECIAL INSPECTOR FOR HIGH STRENGTH BOLTED CONNECTIONS SHALL:
   A. OBSERVE THE CALIBRATION PROCEDURES WHEN SUCH PROCEDURES ARE REQUIRED BY THE PLANS OR SPECIFICATIONS.

   B. MONITOR THE INSTALLATION OF BOLTS TO DETERMINE THAT ALL PLIES OF CONNECTED MATERIALS HAVE BEEN DRAWN TOGETHER.

   C. MONITOR THAT THE SELECTED PROCEDURE IS PROPERLY USED TO TIGHTEN ALL BOLTS.

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FACILITY #: 12372
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(G.S.N. CONTINUED)

CONCRETE

1. ALL CONCRETE CONSTRUCTION SHALL CONFORM WITH THE CODE AND WITH THE PROVISIONS OF ACI 318.

2. SCHEDULE OF STRUCTURAL CONCRETE PERFORMANCE REQUIREMENTS:

MEMBER	COMPRESSIVE STRENGTH 28 DAY U.N.O. (PSI)	MAX DENSITY (PCF)	MAX W/C RATIO	MAX SHRINKAGE (%) (NOTE 4)	EXPOSURE CATEGORY
ALL FOOTINGS	4000	150	0.5	0.060	
GRADE BEAMS	4000	150	0.5	0.060	
ALL OTHER SUBSTRUCTURE WALLS, PIERS, PILES AND CAPS	3000	150	0.5	0.060	
SLAB-ON-GRADE	3000*	150	-	.03	
CONCRETE ON METAL DECK	3000	115	0.50*	0.060	
CURBS, PADS, AND OTHER NON-STRUCTURAL CONCRETE	2500	150	0.60	0.060	
MECHANICAL EQUIPMENT PADS ON METAL DECK	3000	115	0.60	0.060	
CONCRETE TOPPING SLABS (NOTE 9)	4000	150	0.45*	0.044	W1, C1

* LIMIT TOTAL WATER CONTENT TO A MAXIMUM OF 300#/C.Y
** ADDITIONAL TEST CYLINDERS ARE REQUIRED FOR 56 DAY STRENGTHS.

3. CONCRETE MIXES:
   A. MIX SHALL BE DESIGNED BY A QUALIFIED TESTING LABORATORY AND APPROVED BY THE STRUCTURAL ENGINEER.
   B. MIX DESIGN METHODS (TEST HISTORY OR TRIAL BATCH METHOD) PER THE CODE SHALL BE USED TO PROPORTION CONCRETE. SUBMIT MIX DESIGN METHOD DATA FOR REVIEW.
   C. MIX DESIGNS SHALL SATISFY EITHER THE SHRINKAGE CRITERIA OR THE W/C RATIO AND TOTAL WATER CONTENT CRITERIA SPECIFIED.
   D. MIX DESIGNS FOR SLABS ON GRADE, ELEVATED SLABS AND BEAMS MUST MEET SHRINKAGE CRITERIA, REGARDLESS OF THE W/C RATIO SPECIFIED.
   E. MIX DESIGNS SHALL MEET THE MINIMUM REQUIREMENTS FOR EXPOSURE CATEGORIES F0, S0, W0, AND C0 AS DEFINED IN CHAPTER 19 OF ACI 318 UNLESS OTHERWISE SPECIFIED IN THE TABLE ABOVE.
   F. FOR SHOTCRETE APPLICATIONS, PROVIDE MIX DESIGNS FOR COMPRESSIVE STRENGTH AS WELL AS TEST PANEL RESULTS FOR STRENGTH AND CORE GRADES PER THE SHOTCRETE GENERAL STRUCTURAL NOTES.
   G. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE I OR II, UNLESS NOTED OTHERWISE.
   H. AGGREGATE FOR HARDROCK CONCRETE SHALL CONFORM TO ALL REQUIREMENTS AND TESTS OF ASTM C33 AND PROJECT SPECIFICATIONS. EXCEPTIONS MAY BE USED ONLY WITH PERMISSION OF THE STRUCTURAL ENGINEER.
   I. AGGREGATE FOR LIGHTWEIGHT CONCRETE (MAX DENSITY < 120 PCF) SHALL BE THE EXPANDED SHALE TYPE CONFORMING TO ALL REQUIREMENTS AND TESTS OF ASTM C330 AND PROJECT SPECIFICATIONS. EXCEPTIONS MAY BE USED ONLY WITH PERMISSION OF THE STRUCTURAL ENGINEER.

4. SHRINKAGE TESTS:
   A. CONCRETE SHRINKAGE FOR MIX DESIGNS SHALL BE DETERMINED AT 28 DAYS PER ASTM C157.
   B. AT SLAB ON GRADE, ADDITIONAL DRYING SHRINKAGE TESTS WILL BE MADE FROM FIELD SAMPLES DURING CONSTRUCTION. AT THE BEGINNING OF EACH DAY'S POUR, ONE SET OF THREE SPECIMENS SHALL BE TAKEN FROM THE FIRST POUR OF CONCRETE. MEASUREMENTS TO DETERMINE SHRINKAGE EXPRESSED AS PERCENTAGE OF BASE LENGTH SHALL BE MADE AND REPORTED.

5. CONCRETE INSTALLATION:
   A. CONCRETE MIXING OPERATION, ETC. SHALL CONFORM TO ASTM C94.
   B. PLACEMENT OF CONCRETE SHALL CONFORM TO ACI 318 AND PROJECT SPECIFICATIONS.
   C. CLEAN AND ROUGHEN TO 1/4" AMPLITUDE ALL CONCRETE SURFACES AGAINST WHICH NEW CONCRETE ISTO BE PLACED.
   D. ALL REINFORCING BARS, ANCHOR BOLTS, AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.

6. PENETRATIONS IN CONCRETE:
   A. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE BEFORE PLACING. DO NOT CUT ANY REINFORCING WHICH MAY CONFLICT. CORING CONCRETE IS NOT PERMITTED EXCEPT AS OUTLINED IN THE M.E.P. COORDINATION NOTES. OPENINGS, POCKETS, ETC., LARGER THAN 6" SHALL NOT BE PLACED IN CONCRETE SLABS, AT DROP PANELS OR BEAMS UNLESS SPECIALLY DETAILED ON THE STRUCTURAL DRAWINGS. NOTIFY STRUCTURAL ENGINEER WHEN DRAWINGS BY OTHERS SHOW OPENINGS, POCKETS, ETC. LARGER THAN 6" NOT SHOWN ON THE STRUCTURAL DRAWINGS, SEE THE M.E.P. COORDINATION NOTES FOR ADDITIONAL RESTRICTIONS ON THE PLACEMENT OF OPENINGS IN SLABS AND WALLS.
   B. PIPES LARGER THAN 1 1/2" DIAMETER SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED BY STRUCTURAL ENGINEER. PIPES SHALL NOT DISPLACE OR INTERRUPT REINFORCING BARS. PIPES SHALL NOT BE PLACED IN COLUMN DROP HEAD AREA OR STUDRAIL ZONE. SPACE EMBEDDED PIPES AT A MINIMUM OF 3 DIAMETERS. SIZE OF PIPE SHALL BE ONE THIRD OF SLAB THICKNESS MAX. SEE THE M.E.P. COORDINATION NOTES FOR ADDITIONAL RESTRICTIONS ON THE PLACEMENT OF PIPES IN STRUCTURAL CONCRETE.

7. ALL EXTERIOR CRACKS TO BE SKIM COATED.

8. TOPPING SLABS AT EXTERIOR CONDITIONS OR EXPOSED TO VIEW:
   A. ADD FIBERMESH-300 TO THE MIX AT A DOSAGE OF 1.5#/cy
   B. MOISTEN THE SUBGRADE PRIOR TO POURING THE CONCRETE BUT AVOID STANDING WATER.
   C. DO NOT ADD WATER TO THE MIX AT THE JOB SITE.
   D. ADD TROWEL JOINTS AT EACH WAY SPACED AT 28'SLAB THICKNESS AND FULL DEPTH JOINTS EACH WAY SPACED 84'SLAB THICKNESS (EX: 7'-0" OC AND 21'-0" OC FOR 3" SLAB). VERIFY LOCATIONS WITH ARCHITECT
   E. ADD #3 X 5'-0" MIDHEIGHT DIAGONAL BARS AT RE-ENTRANT CORNERS AND LARGE OPENINGS WHERE CRACKS ARE LIKELY TO FORM.
   F. MOIST CURE THE FINISHED SLAB FOR 7 DAYS.

REINFORCING STEEL

1. BAR SPECIFICATIONS:
   A. REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 19 OF THE CODE, ASTM A615 (A706 WHERE NOTED ON PLANS), GRADE 60 U.N.O.
   B. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 AND SHALL BE SUPPORTED ON APPROVED CHAIRS.

2. INSTALLATION:
   A. BARS SHALL BE CLEAN OF RUST, GREASE, OR OTHER MATERIALS LIKELY TO IMPAIR BOND.
   B. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
   C. ALL BARS SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN THE FINAL IN-PLACE INSPECTION IS MADE.
   D. BARS IN SLABS SHALL BE SECURELY SUPPORTED ON WELL-CURED CONCRETE BLOCKS OR APPROVED METAL CHAIRS, PRIOR TO PLACING CONCRETE.

3. SPLICES:
   A. REINFORCING BAR SPLICES SHALL, IN CONCRETE, CONFORM TO THE PROVISIONS OF ACI 318, AND IN MASONRY, CONFORM TO THE PROVISIONS OF ACI 530.
   B. #14 AND #18 BARS SHALL NOT BE LAP SPLICED.
   C. LAP ALL HORIZONTAL BARS AT CORNERS AND INTERSECTIONS.
   D. DOWEL ALL VERTICAL REBAR TO FOUNDATIONS.
   E. ALL SPLICE LOCATIONS ARE SUBJECT TO APPROVAL BY STRUCTURAL ENGINEER. PROVIDE REQUIRED SHOP DRAWINGS AND FABRICATE AFTER ENGINEER'S REVIEW.
   F. MECHANICAL BAR SPLICES (COUPLERS) SHALL BE USED WHERE SPECIFIED ON PLANS. THEY MAY ALSO BE USED AT THE CONTRACTOR'S OPTION IN LIEU OF LAP SPLICES AND WHERE REINFORCING IS SHOWN CONTINUOUS THROUGH CONSTRUCTION JOINTS. THE MINIMUM COVER ON THE COUPLER OF 3/4" SHALL BE MAINTAINED. UNLESS NOTED OTHERWISE, ALL MECHANICAL BAR SPLICES SHALL BE "TYPE 2" AS DEFINED BY ACI 318 AND BE ONE OF THOSE LISTED BELOW AND INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS:
      - HRC 500 SERIES MECHANICAL COUPLERS (ICC ESR-2764)
      - LENTON A2 SERIES MECHANICAL SPLICES (IAPMO ER-0129)

   G. MINIMUM LAP SPLICES SHALL BE AS FOLLOWS:
      - WELDED WIRE FABRIC: 9"
      - DEFORMED BARS IN CONCRETE: 12"
      - DEFORMED BARS IN MASONRY: THE GREATER OF 24" OR 48 BAR DIA.

4. WELDING REBAR:
   A. WELDING OF REINFORCING MUST BE APPROVED BY THE STRUCTURAL ENGINEER.
   B. ALL WELDS SHALL BE IN CONFORMITY WITH THE PROJECT SPECIFICATIONS AND AWS D1.4. SEE SPECIAL INSPECTION SECTION FOR WELDING INSPECTION REQUIREMENTS.
   C. ALL REINFORCING BARS TO BE WELDED SHALL BE ASTM A706, U.N.O.
   D. ALL WELDS SHALL BE DONE BY AWS CERTIFIED WELDERS USING THE FOLLOWING ELECTRODES, U.N.O.:

ASTM A706	E80XX
ASTM A615	E90XX

5. REBAR DETAILING:
   A. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH ACI 315.
   B. COMPLETE AND DETAILED REINFORCING PLACEMENT DRAWINGS SHALL BE PREPARED AND SUBMITTED TO THE ARCHITECT FOR REVIEW BY THE STRUCTURAL ENGINEER PRIOR TO FABRICATION IN ACCORDANCE WITH SPECIFICATIONS AND APPLICABLE CODES. THESE APPROVED DRAWINGS SHALL BE AVAILABLE ON THE JOB SITE PRIOR TO PLACING OF CONCRETE.
   C. REBAR SPACINGS GIVEN ARE MAXIMUM ON CENTER WHETHER STATED AS "O.C." OR NOT. UNLESS A SPECIFIED LENGTH IS GIVEN, ALL REBAR IS CONTINUOUS WHETHER STATED AS "CONT." OR NOT.

6. MILL TEST REPORTS SHALL BE SUBMITTED PRIOR TO PLACEMENT OF CONCRETE.

7. CONTINUOUS INSPECTION OF CONCRETE SHALL INCLUDE INSPECTION DURING INSTALLATION OF REINFORCING STEEL. INSPECTION SHALL BE SCHEDULED SO THAT PLACEMENT OF REINFORCING STEEL, CONDUIT, SLEEVES, AND EMBEDDED ITEMS MAY BE CORRECTED PRIOR TO PLACEMENT OF OVERLYING GRIDS OF REINFORCING STEEL.

8. CONCRETE PROTECTION FOR REINFORCEMENT:
   (i) CAST-IN-PLACE CONCRETE (NON-PRESTRESSED). THE FOLLOWING CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT, U.N.O.:

	MINIMUM COVER	TOLERANCES + OR -
A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"	3/8"
B. CONCRETE EXPOSED TO EARTH OR WEATHER:		
NO. 6 THROUGH NO. 18 BAR	2"	3/8"
NO. 5 BAR, W31 OR D31 WIRE AND SMALLER	1 1/2"	3/8"
C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND:		
SLABS, WALLS, JOISTS:		
NO. 14 AND NO. 18 BAR	1 1/2"	3/8"
NO. 11 BAR AND SMALLER	3/4"	1/4"
BEAMS, COLUMNS:		
PRIMARY REINFORCEMENT, TIES, STIRRUPS AND SPIRALS	1 1/2"	3/8"
SHELLS, FOLDED PLATE MEMBERS:		
NO. 6 BAR AND LARGER	3/4"	1/4"
NO. 5 BAR, W31 OR D31 WIRE AND SMALLER	1/2"	3/16"

CONSTRUCTION JOINTS

1. ALL CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 318 SECTION 6.4 AND THE TYPICAL CONSTRUCTION JOINT DETAILS SHOWN ON THE STRUCTURAL DRAWINGS.

2. ALL SURFACES OF CONSTRUCTION JOINTS SHALL BE CLEANED TO REMOVE DUST, CHIPS, OR OTHER FOREIGN AND ROUGHENED TO 1/4" MINIMUM AMPLITUDE (UNLESS KEYWAYS ARE PROVIDED PER DETAILS ON THE STRUCTURAL DRAWINGS) PRIOR TO PLACING ADJACENT CONCRETE.

3. THE CONTRACTOR SHALL SUBMIT THE PROPOSED LOCATIONS OF CONSTRUCTION JOINTS FOR APPROVAL BY THE ARCHITECT AND THE STRUCTURAL ENGINEER BEFORE STARTING CONSTRUCTION.

4. SLAB POUR STRIPS SHALL BE POURED NO SOONER THAN 28 DAYS AFTER YOUNGEST ADJACENT CONCRETE, U.N.O. THE SLAB BAY THAT INCLUDES THE POUR STRIP SHALL BE SHORED FOR THE FULL HEIGHT OF THE STRUCTURE. ADJACENT BAYS ON EITHER SIDE OF THE POUR STRIP SHALL BE SHORED UNTIL THE POUR STRIP IS POURED AND REACHES 75% OF DESIGN STRENGTH, U.N.O.

5. SEE REINFORCING STEEL NOTE 3 FOR MECHANICAL SPLICES.

6. AT SLABS-ON-GRADE, TOPPING SLABS, AND WALLS, DO NOT PLACE CONCRETE IN LENGTHS EXCEEDING 100 FEET.

7. CAST SLABS-ON-GRADE IN ALTERNATE SECTIONS UNLESS PERMANENT FORMS ARE USED. WAIT 48 HOURS BETWEEN ALL ADJACENT CONCRETE CASTINGS.

POST-INSTALLED CONCRETE ANCHORS

1. POST-INSTALLED ANCHORAGE SHALL BE AS DETAILED ON THE PLANS. SUBSTITUTION OF PRODUCTS SPECIFICALLY DETAILED IN THESE DRAWINGS SHALL NOT BE ALLOWED WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD.

2. SPECIAL INSPECTION IS REQUIRED FOR ALL POST-INSTALLED ANCHORS, U.N.O.

3. WHERE ANCHOR TYPE IS NOT NOTED OR AN ALTERNATE BRAND IS PREFERRED, THE FOLLOWING PRODUCTS ARE ACCEPTABLE TO BE SUBMITTED FOR A SUBSTITUTION REQUEST:

   A. EXPANSION ANCHORS: UNLESS NOTED OTHERWISE, EXPANSION ANCHORS IN CONCRETE SHALL BE ONE OF THOSE LISTED BELOW AND INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
      - HILTI KWIK BOLT TZ (ICC ESR-1917)
      - SIMPSON STRONG-BOLT-2 (ICC ESR-3037)
      - DEWALT/POWERS POWER-STUD +SD2 (ICC ESR-2502)
      - ALTERNATE APPROVED BY KPFF

   B. ADHESIVE ANCHORS: UNLESS NOTED OTHERWISE, EPOXY ANCHORS IN CONCRETE SHALL BE ONE OF THOSE LISTED BELOW AND INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
      - HILTI HIT-HY 200 (ICC ESR-3187)
      - HILTI HIT-RE 500-V3 (ICC ESR-3814)
      - SIMPSON SET-3G (ICC ESR-4057)
      - SIMPSON SET-XP (ICC ESR-2508)
      - DEWALT/POWERS PURE110+ (ICC ESR-2525)
      - DEWALT/POWERS AC100+GOLD (ICC ESR-2582)
      - ALTERNATE APPROVED BY KPFF

   C. POWER ACTUATED FASTENERS: UNLESS NOTED OTHERWISE, POWER ACTUATED FASTENERS IN CONCRETE SHALL BE ONE OF THOSE LISTED BELOW AND INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
      - HILTI LOW VELOCITY POWER DRIVEN FASTENERS (ICC ESR-1663)
      - SIMPSON POWER ACTUATED FASTENERS (ICC ESR-2138)
      - DEWALT/POWERS POWER-DRIVEN FASTENERS (ICC ESR-2024
      - DEWALT/POWERS TRACK-IT C5 GAS ACTUATED FASTENERS (ICC ESR-3275)
      - ALTERNATE APPROVED BY KPFF

   D. SCREW ANCHORS: UNLESS NOTED OTHERWISE, SCREW ANCHORS IN CONCRETE SHALL BE ONE OF THOSE LISTED BELOW AND INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
      - HILTI KWIK HUS-EZ (ICC ESR-3027)
      - SIMPSON TITEN-HD (ICC ESR-2713)
      - DEWALT/POWERS WEDGEBOLT+ (ICC ESR-2526)
      - ALTERNATE APPROVED BY KPFF

4. TENDONS AND REBAR MUST BE LOCATED AND AVOIDED BEFORE DRILLING INTO OR FASTENING TO SLABS, EXCEPT WHEN ANCHORS ARE USED WITH A MAXIMUM EMBEDMENT OF 3/4" OR LESS.

5. ALL CONCRETE ANCHORS WHICH ARE EXPOSED TO THE WEATHER SHALL BE STAINLESS STEEL OR HOT DIP GALVANIZED.

6. WHERE ADHESIVE ANCHORS ARE TO BE INSTALLED IN OVERHEAD CONDITIONS, OR IN HORIZONTAL CONDITIONS WHERE THE SPECIFIED EMBEDMENT DEPTH IS GREATER THAN 8", A PISTON PLUG SHALL BE USED DURING INSTALLATION.

MASONRY

1. ALL MASONRY CONSTRUCTION SHALL CONFORM WITH THE CODE AND WITH THE PROVISIONS OF TMS 402 AND TMS 602.

2. CONCRETE BLOCK SHALL BE ASTM C90 HOLLOW LOAD-BEARING CONCRETE MASONRY UNITS CONFORMING TO CODE SECTION 2103.1, MEDIUM WEIGHT DOUBLE OPEN END UNITS WITH A MAXIMUM LINEAR SHRINKAGE OF 0.065%.

3. MORTAR SHALL BE ASTM C270 TYPE 'M' OR 'S' CONFORMING TO CODE SECTION 2103.2

4. GROUT SHALL BE ASTM C476 COMFORMING WITH CODE SECTION 2103.3

5. ALL CELLS SHALL BE GROUTED SOLID, U.N.O.

6. MINIMUM STRENGTH REQUIREMENTS:

UNIT STRENGTH f'm (psi)	BLOCK STRENGTH (psi)	GROUT STRENGTH (psi)
2,000	2,000	2,500
2,500	3,250	3,000
3,000	4,500	3,500
4,000	6,000	4,500

7. COMPLIANCE WITH COMPRESSIVE STRENGTH REQUIREMENTS SHALL BE DETERMINED USING UNIT STRENGTH METHOD OR PRISM TESTING PER CODE SECTION 2105.

8. REINFORCING BARS - PROVIDE 1/2" CLEAR BETWEEN REINFORCING AND WALL OF MASONRY UNITS. SEE NOTES UNDER REINFORCING STEEL FOR ADDITIONAL REQUIREMENTS.

9. VERTICAL BARS IN WALLS ARE TO BE PLACED IN CENTER OF CELLS UNLESS OTHERWISE SHOWN. VERTICAL BARS ARE TO BE TIED OR OTHERWISE FIXED INTO POSITION PRIOR TO GROUTING WITH WIRE POSITIONERS OR OTHER SUITABLE DEVICES AT INTERVALS NOT EXCEEDING 200 BAR DIAMETERS.

10. VERTICAL BARS IN WALLS AND PILASTERS SHALL HAVE DOWELS OF EQUAL SIZE AND SPACING IN ALL FOOTINGS. DOWELS TO BE FIELD CHECKED BY THE MASONRY CONTRACTOR BEFORE PLACEMENT OF CONCRETE.

11. HORIZONTAL BARS SHALL BE PLACED IN BOND BEAM BLOCKS.

12. NO MORE THAN TWO BARS SHALL BE PLACED IN ANY ONE CELL. WHERE PLAN CALLS FOR MORE THAN TWO, DIVIDE EQUALLY AMONG ADJACENT CELLS.

13. WHEN MULTIPLE BARS ARE LAPPED IN A CELL, LAP REBAR 65 BAR DIAMETERS MIN. AND STAGGER LAPS 24 IN. U.N.O.

14. PIPES OR CONDUITS SHALL NOT BE EMBEDDED IN ANY MASONRY UNLESS SPECIFICALLY DETAILED ON THE APPROVED STRUCTURAL DRAWINGS. NOTIFY ENGINEER WHERE OTHERS SHOW PIPES OR CONDUITS EMBEDDED IN MASONRY THAT ARE NOT SHOWN ON THE APPROVED STRUCTURAL DRAWINGS.

15. SEE DRAWINGS FOR LOCATIONS OF MASONRY CONTROL JOINTS, (MCJ). CONTROL JOINTS SHALL BE SPACED AT A MAXIMUM OF 25 FEET.

16. HORIZONTAL CONTROL JOINTS SHALL BE FORMED BY STOPPING THE GROUT POUR NOT LESS THAN 1/2", NOR MORE THAN 2" BELOW THE TOP OF THE UPPER MOST UNIT GROUTED. HORIZONTAL REINFORCEMENT SHALL BE FULLY EMBEDDED IN GROUT.

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(G.S.N. CONTINUED)

MASONRY

1. ALL MASONRY CONSTRUCTION SHALL CONFORM WITH THE CODE AND WITH THE PROVISIONS OF TMS 402 AND TMS 602.
2. CONCRETE BLOCK SHALL BE ASTM C90 HOLLOW LOAD-BEARING CONCRETE MASONRY UNITS CONFORMING TO CODE SECTION 2103.1, MEDIUM WEIGHT DOUBLE OPEN END UNITS WITH A MAXIMUM LINEAR SHRINKAGE OF 0.065%.
3. MORTAR SHALL BE ASTM C270 TYPE 'M' OR 'S' CONFORMING TO CODE SECTION 2103.2
4. GROUT SHALL BE ASTM C476 COMFORMING WITH CODE SECTION 2103.3
5. ALL CELLS SHALL BE GROUTED SOLID, U.N.O.
6. MINIMUM STRENGTH REQUIREMENTS:

UNIT STRENGTH f'm (psi)	BLOCK STRENGTH (psi)	GROUT STRENGTH (psi)
2,000	2,800	2,500

7. COMPLIANCE WITH COMPRESSIVE STRENGTH REQUIREMENTS SHALL BE DETERMINED USING UNIT STRENGTH METHOD OR PRISM TESTING PER CODE SECTION 2105.
8. REINFORCING BARS - PROVIDE 1/2" CLEAR BETWEEN REINFORCING AND WALL OF MASONRY UNITS. SEE NOTES UNDER REINFORCING STEEL FOR ADDITIONAL REQUIREMENTS.
9. VERTICAL BARS IN WALLS ARE TO BE PLACED IN CENTER OF CELLS UNLESS OTHERWISE SHOWN. VERTICAL BARS ARE TO BE TIED OR OTHERWISE FIXED INTO POSITION PRIOR TO GROUTING WITH WIRE POSITIONERS OR OTHER SUITABLE DEVICES AT INTERVALS NOT EXCEEDING 200 BAR DIAMETERS.
10. VERTICAL BARS IN WALLS AND PILASTERS SHALL HAVE DOWELS OF EQUAL SIZE AND SPACING IN ALL FOOTINGS. DOWELS TO BE FIELD CHECKED BY THE MASONRY CONTRACTOR BEFORE PLACEMENT OF CONCRETE.
11. HORIZONTAL BARS SHALL BE PLACED IN BOND BEAM BLOCKS.
12. NO MORE THAN TWO BARS SHALL BE PLACED IN ANY ONE CELL. WHERE PLAN CALLS FOR MORE THAN TWO, DIVIDE EQUALLY AMONG ADJACENT CELLS.
13. WHEN MULTIPLE BARS ARE LAPPED IN A CELL, LAP REBAR 65 BAR DIAMETERS MIN. AND STAGGER LAPS 24 IN. U.N.O.
14. PIPES OR CONDUITS SHALL NOT BE EMBEDDED IN ANY MASONRY UNLESS SPECIFICALLY DETAILED ON THE APPROVED STRUCTURAL DRAWINGS. NOTIFY ENGINEER WHERE OTHERS SHOW PIPES OR CONDUITS EMBEDDED IN MASONRY THAT ARE NOT SHOWN ON THE APPROVED STRUCTURAL DRAWINGS.
15. SEE DRAWINGS FOR LOCATIONS OF MASONRY CONTROL JOINTS, (MCJ). CONTROL JOINTS SHALL BE SPACED AT A MAXIMUM OF 25 FEET.
16. HORIZONTAL CONTROL JOINTS SHALL BE FORMED BY STOPPING THE GROUT POUR NOT LESS THAN 1/2", NOR MORE THAN 2" BELOW THE TOP OF THE UPPER MOST UNIT GROUTED. HORIZONTAL REINFORCEMENT SHALL BE FULLY EMBEDDED IN GROUT.

POST-INSTALLED MASONRY ANCHORS

1. POST-INSTALLED ANCHORAGE SHALL BE AS DETAILED ON THE PLANS. SUBSTITUTION OF PRODUCTS SPECIFICALLY DETAILED IN THESE DRAWINGS SHALL NOT BE ALLOWED WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD.
2. SPECIAL INSPECTION IS REQUIRED FOR ALL POST-INSTALLED ANCHORS, U.N.O.
3. WHERE ANCHOR TYPE IS NOT NOTED OR AN ALTERNATE BRAND IS PREFERRED, THE FOLLOWING PRODUCTS ARE ACCEPTABLE TO BE SUBMITTED FOR A SUBSTITUTION REQUEST:
   A. EXPANSION ANCHORS: UNLESS NOTED OTHERWISE, EXPANSION ANCHORS IN MASONRY SHALL BE ONE OF THOSE LISTED BELOW AND INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
      A.1 HILTI KWIK BOLT 3 (ICC ESR-1385)
      A.2 SIMPSON STRONG-BOLT-2 (IAPMO ER-240)
      A.3 DEWALT/POWERS POWER-STUD+ SD1 (ICC ESR-2966)
   B. ADHESIVE ANCHORS: UNLESS NOTED OTHERWISE, EPOXY ANCHORS IN MASONRY SHALL BE ONE OF THOSE LISTED BELOW AND INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
      B.1 HILTI HIT-HY 70 (ICC ESR-2682)
      B.2 SIMPSON SET-XP (IAPMO ER-0265)
      B.3 SIMPSON AT-XP (IAPMO ER-0281)
      B.4 DEWALT/POWERS AC100+GOLD (ICC ESR-3200)
   C. POWER ACTUATED FASTENERS: UNLESS NOTED OTHERWISE, POWER DRIVEN FASTENERS IN MASONRY SHALL BE ONE OF THOSE LISTED BELOW AND INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
      C.1 HILTI LOW VELOCITY POWER DRIVEN FASTENERS (ICC ESR-1663)
      C.2 SIMPSON POWER ACTUATED FASTENERS (ICC ESR-2138)
      C.3 DEWALT/POWERS TRAK-IT C5 GAS ACTUATED FASTENERS (ESR-3275)
   D. SCREW ANCHORS: UNLESS NOTED OTHERWISE, SCREW ANCHORS IN CONCRETE AND MASONRY SHALL BE ONE OF THOSE LISTED BELOW AND INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
      D.1 HILTI KWIK HUS-EZ (ICC ESR-3056)
      D.2 SIMPSON TITEN-HD (ICC ESR-1056)
      D.3 DEWALT/POWERS WEDGE-BOLT+ (ICC ESR-1678)
4. ALL MASONRY ANCHORS WHICH ARE EXPOSED TO THE WEATHER SHALL BE STAINLESS STEEL OR HOT DIP GALVANIZED.

STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH AISC 303 AND AISC 360. THE FABRICATOR AND THE ERECTOR SHALL BE AISC CERTIFIED (CATEGORY BU AND CATEGORY CSE, RESPECTIVELY) OR CERTIFIED BY THE GOVERNING JURISDICTION UNLESS APPROVED BY THE ENGINEER OF RECORD. SEE SPECIAL INSPECTION SECTION FOR ADDITIONAL REQUIREMENTS ON SHOP FABRICATION.
2. ALL STRUCTURAL STEEL SHALL CONFORM TO THE ASTM DESIGNATION AS INDICATED BELOW (U.N.O.):

DESCRIPTION	ASTM DESIGNATION
ALL BASE PLATES AND LATERAL RESISTING CONNECTION PLATES	A572, GRADE 50
ALL ANGLES, CHANNELS, AND MISC.	A36
ALL WF BEAMS AND WT SECTIONS	A992, GRADE 50
ALL WF COLUMNS	A992, GRADE 50
STRUCTURAL PIPE SECTIONS	A53, GRADE B
HSS SECTIONS	A500 GRADE B OR C
HIGH STRENGTH BOLTS	F3125, GRADES A325 & F1852 F3125, GRADES A490 & F2280
MACHINE BOLTS	A307
ANCHOR BOLTS	F1554, GRADE 55 WELDABLE, 105
THREADED RODS	A36

3. THE STRUCTURAL STEEL FABRICATOR SHALL FURNISH SHOP DRAWINGS OF ALL STEEL FOR ARCHITECT'S AND STRUCTURAL ENGINEER'S REVIEW BEFORE FABRICATION.
4. HOLES IN STEEL SHALL BE 1/16" LARGER DIAMETER THAN NOMINAL SIZE OF BOLT USED, EXCEPT AS NOTED. COLUMN BASE PLATE HOLES MAY BE OVERSIZED PER AISC MANUAL.
5. ALL STRUCTURAL STEEL SURFACES THAT ARE ENCASED IN CONCRETE, MASONRY, OR SPRAY ON FIREPROOFING, OR ARE ENCASED BY BUILDING FINISH, SHALL BE LEFT UNPAINTED.
6. ALL STRUCTURAL STEEL AND MISCELLANEOUS METAL PERMANENTLY EXPOSED TO WEATHER SHALL BE HOT DIP GALVANIZED AFTER FABRICATION, U.N.O. ALTERNATE FINISHES SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL.
   A. FIELD WELDING OF GALVANIZED STEEL SHALL BE IN CONFORMANCE WITH AWS D19.0.
   B. GALVANIZING AT FIELD WELDS SHALL BE REPAIRED WITH A GALVANIZING REPAIR PAINT ACCORDING TO ASTM A780.
   C. ALL WELDING OF GALVANIZED STEEL DESIGNATED AESS SHALL USE ELECTRODES WITH LESS THAN OR EQUAL TO 0.3% SILICON CONTENT.
7. HIGH STRENGTH BOLTS TO BE FULLY PRETENSIONED PER AISC SPECIFICATION FOR STRUCTURAL JOINTS, U.N.O. TEST SLIP CRITICAL (SC) BOLTS WITH A CALIBRATED WRENCH UNLESS LOAD INDICATOR BOLTS ARE USED.
8. PROVIDE BEVELED WASHERS PER ANSI B18.23.1 AS REQUIRED ON SLOPED SURFACES.
9. WELDING:
   A. ALL WELDS SHALL BE IN CONFORMITY WITH THE PROJECT SPECIFICATIONS AND AWS D1.1, SEE SPECIAL INSPECTION SECTION FOR WELDING INSPECTION REQUIREMENTS.
   B. ALL WELDING IS TO BE DONE BY CERTIFIED WELDERS USING E70XX ELECTRODES (U.N.O.).
   C. WELD LENGTHS CALLED FOR ON PLANS ARE THE NET EFFECTIVE LENGTH REQUIRED. WHERE FILLET WELD SYMBOL IS GIVEN WITHOUT INDICATION OF SIZE, USE MINIMUM SIZE WELDS AS SPECIFIED IN AISC 360.
   D. WELDS TERMINATING AT ENDS OR SIDES, WHERE PRACTICAL, SHALL BE RETURNED CONTINUOUSLY AROUND CORNERS A DISTANCE 2 TIMES THE NOMINAL SIZE OF THE WELD PER AISC 360 SECTION J2.2B, U.N.O.
   E. ALL FULL-PENETRATION FIELD WELDS SHALL BE ULTRASONICALLY TESTED.
   F. ALL TWO-SIDED FILLET WELDS SHOWN SHALL BE WELDED WITH THE SAME (GIVEN) WELD SIZE ON BOTH SIDES.
   G. ALL UNSIZED GROOVE OR BUTT WELDS SHOWN SHALL BE COMPLETE PENETRATION. ALL PROVISIONS OF AWS SHALL BE OBSERVED INCLUDING REQUIREMENTS FOR BACK-UP PLATES AND WELD TRANSITIONS WHETHER OR NOT THEY ARE SPECIFICALLY SHOWN.
   H. A WRITTEN WELDING PROCEDURE SPECIFICATION SHALL BE SUBMITTED TO THE TESTING LABORATORY. IT SHALL INCLUDE ALL WELDING PROCEDURES TO BE USED AS DESCRIBED IN AWS, CHAPTER 4.
   I. WHERE FIELD WELDING IS INDICATED, THE FIELD DESIGNATION IS GIVEN AS A RECOMMENDATION ONLY.
10. ALL ANCHOR BOLTS SHALL BE HEADED STUD BOLTS OR THREADED RODS WITH NUTS. J BOLTS ARE NOT ACCEPTABLE IN ANY APPLICATION.
11. GROUT OTHER THAN FOR MASONRY CELLS SHALL BE NON-SHRINK, NON-METALLIC GROUT, MEETING ASTM C-1107, MIXED AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS. MINIMUM COMPRESSIVE STRENGTH SHALL BE 5,000 PSI IN THREE DAYS, UNLESS APPROVED BY THE STRUCTURAL ENGINEER.
12. ALL ROLLED STEEL MEMBERS WITH FLANGES EXCEEDING 1 1/2" AND ALL PLATES EXCEEDING 2" IN THICKNESS SHALL COMPLY WITH THE FOLLOWING:
   A. ALL MATERIALS SHALL HAVE CHARPY V-NOTCH TESTING AS REQUIRED PER AISC 360 SECTION A3.1.
   B. ALL BEAM COPES AND WELD ACCESS HOLES SHALL COMPLY WITH AISC 360 SECTION J1.6
   C. ALL WELD MATERIAL SHALL COMPLY WITH AISC 36O SECTION J2.6
   D. ALL THERMAL CUTTING SHALL COMPLY WITH AISC 360 SECTION M2.2

STEEL PART OF THE SEISMIC FORCE RESISTING SYSTEM (SFRS)

1. FOR ADDITIONAL REQUIREMENTS, SEE STRUCTURAL STEEL SECTION OF G.S.N.
2. STRUCTURAL STEEL DESIGNATED PART OF THE SEISMIC FORCE RESISTING SYSTEM (SFRS) SHALL BE IN CONFORMANCE WITH AISC 341.
3. THE CONSTRUCTION MANAGER SHALL SCHEDULE A PRE-CONSTRUCTION MEETING BETWEEN THE ENGINEER OF RECORD, THE FABRICATOR, THE ERECTOR, THE CONTRACTOR AND THE INSPECTORS TO DISCUSS THE WELDING PROCEDURE SPECIFICATION (WPS). ALL WELDERS AND INSPECTORS SHALL BE INFORMED OF AND MUST ADHERE TO THE WPS AND SHALL RETAIN A COPY.
4. THE CONTRACTOR SHALL PROVIDE THE WELDING PROCEDURE SPECIFICATION (WPS) AND DETAILED SEQUENCE OF WELDING SKETCH FOR REVIEW AND APPROVAL PRIOR TO STARTING FABRICATION. THE SEQUENCE OF WELDING SHALL BE PLANNED TO MINIMIZE LOCKED IN STRESSES AND DISTORTION. SEE SHOP DRAWINGS/SUBMITTALS SECTION OF G.S.N.
5. ALL BOLTED CONNECTIONS DESIGNATED PART OF THE SFRS SHALL BE FABRICATED AS SLIP CRITICAL, REGARDLESS OF BOLT DESIGNATION SHOWN ON DRAWINGS.
6. WELDED CONNECTIONS DESIGNATED PART OF THE SFRS:
   A. ALL WELDING SHALL BE IN CONFORMANCE WITH AWS D1.8.
   B. ALL WELDING ELECTRODES (FILLER METAL) SHALL BE E70XX, EXCEPT WHERE BOTH JOINED MEMBERS ARE A913 GRADE 65, E80XX SHALL BE USED.
   C. ALL WELD FILLER METAL SHALL CONFORM WITH AWS D1.8, TABLE 6.1
   D. WHERE WELDS ARE DESIGNATED AS DEMAND CRITICAL (DC), ALL WELD FILLER METAL SHALL CONFORM WITH AWS D1.8, CLAUSE 6.3
   E. FIELD WELDING OF FULL PENETRATION WELDS AND PARTIAL PENETRATION WELDS SHALL BE PERFORMED USING LOW HYDROGEN ELECTRODES.
7. ALL ROLLED STEEL MEMBERS WITH FLANGES EXCEEDING 1 1/2" AND ALL PLATES EXCEEDING 2" IN THICKNESS FOR BUILT UP SECTIONS SHALL COMPLY WITH AISC 341, SECTION A3.3.
8. TESTING AND INSPECTION SHALL BE IN ACCORDANCE WITH AISC 341, CHAPTER J.

HEADED STUDS

1. ALL HEADED STUDS WELDED TO BEAMS OR CONCRETE CONNECTIONS SHALL BE ONE OF THOSE LISTED BELOW AND INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS:
   A. TRU-WELD SHEAR CONNECTOR STUDS (ICC ESR-2577)
   B. NELSON SHEAR CONNECTOR STUDS (ICC ESR-2856)
   C. ALTERNATE APPROVED BY KPFF.
2. ALL HEADED STUDS SHALL BE AUTOMATICALLY END WELDED IN SHOP OR FIELD WITH EQUIPMENT RECOMMENDED BY MANUFACTURER OF STUDS.
3. STEEL SHEAR STUDS MATERIAL, WELDING, AND INSPECTIONS SHALL BE IN ACCORDANCE WITH AWS "STRUCTURAL WELDING CODE", AWS D1.1

STEEL DECK

1. ROOF AND FLOOR DECKS SHALL BE AS NOTED ON THE DRAWINGS. MINIMUM PROPERTIES ARE AS FOLLOWS:

DECK	I (in⁴)	S⁺(in³)	S⁻(in³)	DECK TYPE
1 1/2" x 18 GA ROOF DECK	.260	.316	.299	HR-36
2" x 18 GA ROOF DECK	.555	.510	.511	W2

2. DECK SHOP DRAWINGS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW PRIOR TO FABRICATION AND SHALL INDICATE STUD LAYOUT.
3. THE AMERICAN IRON AND STEEL INSTITUTE "SPECIFICATIONS FOR THE DESIGN OF LIGHT GAUGE STEEL STRUCTURAL MEMBERS" SHALL GOVERN THE DESIGN OF ALL DECK UNITS. STEEL DECK AND ALL OF ITS CLOSURES AND FLASHINGS SHALL CONFORM TO ASTM A653, GRADE A, Fy 38,000 PSI MIN. STEEL DECK SHALL BE DESIGNED ACCORDING TO SDI (STEEL DECK INSTITUTE) PUB NO. 29.
4. AEP SPAN (IAPMO ER-0550) ACCEPTABLE STEEL DECK MANUFACTURERS ARE AS FOLLOWS:
   A. ASC (ICC ESR-1414)
   B. VERCO MANUFACTURING, INC. (IAPMO ER-0217)
5. UNITS SHALL BE CONTINUOUS OVER THREE OR MORE SPANS EXCEPT WHERE THE FRAMING DOES NOT PERMIT. DECK SHALL BEAR 2" MINIMUM AT ALL SUPPORTS. FOR DECK WITH CONCRETE TOPPINGS: SHORING MAY BE REQUIRED AT NON-CONTINUOUS SPANS. DECK SHOP DRAWINGS SHALL INDICATE WHERE SHORING WILL BE REQUIRED.
6. ALL WELDING OF STEEL DECK SHALL BE DONE BY CERTIFIED LIGHT GRADE WELDERS IN ACCORDANCE WITH AWS "SPECIFICATIONS FOR WELDING SHEET STEEL IN STRUCTURES", AWS D1.3.
7. ALL FASTENING OF STEEL DECK TO SUPPORTS BELOW SHALL BE WITH APPROVED FASTENERS PER THE MANUFACTURER'S RECOMMENDATIONS AND ICC/IAPMO REPORT.
8. FOR COMPOSITE ROOF DECK ATTACHMENT SEE SCHEDULE ON SHEET S805.
9. FOR NON-COMPOSITE ROOF DECK ATTACHMENT SEE SCHEDULE ON SHEET S800.
10. METAL DECK SHALL BE GALVANIZED PER: [SPECIFY ONE OF THE FOLLOWING]
    G60 = NORMAL-STANDARD.
    G90 = COMMERCIAL HEAVY.
    A40 = USED WITH PAINTED FINISH.
11. PROVIDE FLASHING AND CLOSURE PLATES AT ENDS OF ALL UNITS, AROUND COLUMNS, AND ALL PERIMETER LOCATIONS REQUIRING CONCRETE.
12. WHERE CONCRETE OVER METAL DECK IS SPECIFIED ON THE DRAWINGS, VENTED DECK SHALL BE USED AT BALCONIES, EXTERIOR DECKS, AND OTHER LOCATIONS WITH MOISTURE SENSITIVE COVERINGS. NON-VENTED DECK SHALL BE USED AT ALL OTHER LOCATIONS U.N.O.
13. WHERE STEEL DECK IS TO FASTENED TO TIMBER FRAMING, WOOD SCREWS SHALL CONFORM TO ANSI/ASME B18.6.1.

COLD-FORMED STEEL (a.k.a. METAL STUDS)

1. GENERAL
   A. ALL COLD-FORMED METAL FRAMING CONSTRUCTION SHALL BE IN ACCORDANCE WITH AISI S100 "SPECIFICATIONS FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS".
   B. ALL COLD-FORMED STRUCTURAL MEMBERS SHALL BE PER ICC ESR-3064P.
   C. ALL COLD-FORMED STEEL SHALL CONFORM TO THE FOLLOWING:

43 MIL AND LIGHTER	ASTM A1003 GR 33
54 MIL AND HEAVIER	ASTM A1003 GR 50

   D. ALL COLD-FORMED STEEL SHALL HAVE A MINIMUM COATING CONFORMING TO THE FOLLOWING:

LOAD-BEARING AND EXTERIOR STRUCTURAL MEMBERS	COATING PROTECTION CP60 PLUS AN APPROVED COATING PER CURRENT ASTM C955
INTERIOR NON-STRUCTURAL MEMBERS	GALVANIZED G40 MINIMUM

   E. WELDING IS NOT PERMITTED UNLESS SPECIFICALLY APPROVED BY ENGINEER OF RECORD.
   F. ALL APPROVED WELDING SHALL BE PERFORMED BY WELDERS CERTIFIED FOR ALL APPROPRIATE DIRECTIONS COMPLYING WITH AWS D1.3. WELDING RODS SHALL CONFORM TO THE FOLLOWING:

43 MIL AND LIGHTER	E60XX
54 MIL AND HEAVIER	E70XX OR E6013
COLD-FORMED TO STRUCTURAL STEEL	E70XX LOW HYDROGEN

   G. WIRE TYING OF FRAMING COMPONENTS SHALL NOT BE PERMITTED.
   H. TEMPORARY BRACING REQUIREMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
   I. ALL SCREWS SHALL BE FULLY DRIVEN AND PROTRUDE THE LARGER OF 3 THREADS OR 1/4" THROUGH THE LAST MATERIAL JOINED. THERE SHALL BE NO SPACE BETWEEN JOINING MEMBERS AT THE SCREW LOCATION.
   J. THE TOP TRACK SHALL BE MADE CONTINUOUS BY MEANS OF SPLICING THE TRACK.
   K. MEMBERS OF BUILT-UP BEAMS AND COLUMNS SHALL BE ATTACHED TO EACH OTHER WITH EITHER A MINIMUM OF (2) #10 SCREWS AT 12" O.C. AND 6" MAXIMUM FROM EACH END, WITH SCREWS WITHIN 1" FROM EACH FLANGE, OR STITCH WELDED ON BOTH FLANGES WITH 1/8" GROOVE WELDS x 1" LONG AT 12" ON CENTER.
   L. ALL METAL STUDS SHALL HAVE STIFFENED FLANGES. SEE DRAWINGS FOR DETAILS ON CONNECTIONS, BRACING, BRIDGING, ETC.
   M. TOP AND BOTTOM TRACKS FOR INTERIOR PARTITIONS SHALL BE 33 MIL MINIMUM WITH 1.25" FLANGES.
   N. STUDS IN FIRE RATED WALLS MUST MEET THE MINIMUM DIMENSIONS OF THE UL ASSEMBLY REFERENCED BY THE ARCH DRAWINGS. (25 GAUGE STUDS DO NOT MEET THESE REQUIREMENTS IN MANY LOCATIONS.)
   O. ALL STUD SECTIONS MAY BE PUNCHED UNLESS NOTED OTHERWISE. PUNCHOUTS AND PENETRATIONS IN WALL STUDS SHALL NOT BE CLOSER THAN 24" O.C. NOR LOCATED CLOSER THAN 10" FROM THE END. THE SIZE OF PUNCHOUTS SHALL NOT BE LARGER THAN 1/2 OF THE WEB DEPTH OR 2-1/2" MAXIMUM IN THE WEB DIRECTION NOR MORE THAN 4-1/2" LONG IN THE MEMBER DIRECTION WITHOUT APPROVAL FROM THE ENGINEER OF RECORD.

COLD-FORMED STEEL (a.k.a. METAL STUD) IDENTIFICATION

1. MEMBER IDENTIFICATION SHALL BE SHOWN:
   A. MEMBER DEPTH:
      (EXAMPLE: 6" = 600/100 INCHES)
      ALL MEMBER DEPTHS ARE TAKEN IN 1/100 INCH INCREMENTS. FOR "T" SECTIONS, MEMBER DEPTH IS THE INSIDE TO INSIDE DIMENSION.
   B. STYLE:
      EXAMPLE: STUD OR JOIST SECTION = "S")
      THE FOUR ALPHA CHARACTERS USED BY THE DESIGNATOR SYSTEM ARE:
      S = STUD OR JOIST SECTIONS
      T = TRACK SECTIONS
      U = CHANNEL SECTIONS
      F = FURRING CHANNEL SECTIONS
   C. FLANGE WIDTH:
      (EXAMPLE: 1 5/8" = 1.625" = 162/100 INCHES)
      ALL MEMBER DEPTHS ARE TAKEN IN 1/100 INCH INCREMENTS.
   D. MATERIAL THICKNESS:
      (EXAMPLE: 0.054" = 54 MIL = 54/1000 INCHES)
      MATERIAL THICKNESS IS THE MINIMUM BASE METAL THICKNESS IN MILS.
      MINIMUM BASE METAL THICKNESS REPRESENTS 95% OF THE DESIGN THICKNESS.

      A B C D
      600 S 162 54

2. ALL CALCULATED MEMBER PROPERTIES PER AISI SPECIFICATIONS ARE BASED ON THE FOLLOWING THICKNESSES:

MINIMUM THICKNESS	REFERENCE GAUGE	DESIGN THICKNESS
33 MIL	20 GA	0.0346"
43 MIL	18 GA	0.0451"
54 MIL	16 GA	0.0566"
68 MIL	14 GA	0.0713"
97 MIL	12 GA	0.1017"
118 MIL	10 GA	0.1242"

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AGENCY APPROVAL

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OSHPD #:

ARCHITECT SEAL

CONSULTANT SEAL

REGISTERED PROFESSIONAL ENGINEER
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Exp. 3/31/22
STRUCTURAL
STATE OF CALIFORNIA
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KEY PLAN

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ABBREVATIONS

A.B.	ANCHOR BOLT(S)
@	AT
ACI	AMERICAN CONCRETE INSTITUTE
ADD'L	ADDITIONAL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ANCH.	ANCHOR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX.	APPROXIMATE
ARCH	ARCHITECT or ARCHITECTURAL DOCUMENTS
ASD	ALLOWABLE STRESS DESIGN
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS	AMERICAN WELDING SOCIETY
AVG	AVERAGE
BLDG	BUILDING
BLK	BLOCK
BLK'G	BLOCKING
BM	BEAM
B.N. or BN	BOUNDARY NAILING
BOT OR (B)	BOTTOM
BRG	BEARING
BRK	BRICK
B.S. or BS	BOUNDARY SCREWING
BTWN	BETWEEN
CALCS	CALCULATIONS
CANT	CANTILEVER
CBC	CALIFORNIA BUILDING CODE
C-C	CENTER TO CENTER
CLG	CEILING
CFS	COLD-FORMED STEEL (A.K.A. LIGHT GAUGE)
CIP	CAST IN PLACE
CJ	CONTROL JOINT or CONSTRUCTION JOINT
CL OR CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
℄ or CL	CENTER LINE
CLOS	CLOSURE
COL	COLUMN
COMD	CONCRETE OVER METAL DECK
CONC	CONCRETE
CONN	CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUE or CONTINUOUS
CONTR	CONTRACTOR
CTR or CNTR	CENTER
CTR'D	CENTERED
DB	DRAG BEAM
DBL	DOUBLE
DC	DEMAND CRITICAL
DIA or ⌀	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DJ	DRAG JOIST
DL	DEAD LOAD
DN	DOWN
DP	DEEP or DEPTH
DSA	DIVISION OF THE STATE ARCHITECT
DT	DRAG TRUSS
DWG	DRAWING(S)
DWL	DOWEL
E (psi)	MODULUS OF ELASTICITY
EA	EACH
EF or E.F.	EACH FACE
EJ	EXPANSION JOINT
EL or ELEV	ELEVATION
EN or E.N.	EDGE NAILING
ENGR	ENGINEER
EOR or E.O.R.	ENGINEER OF RECORD
EQ	EQUAL
ES or E.S.	EACH SIDE or EDGE SCREWING
EW	EACH WAY
EWP	ENGINEERED WOOD PRODUCT
E-W	EAST-WEST
EXIST or (E)	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FAB	FABRICATE
FND	FOUNDATION
FF	FINISH FLOOR
FIN	FINISH
FLG	FLANGE
FLR	FLOOR
FN or F.N.	FIELD NAILING
F.O.M.	FACE OF MASONRY
F.O.S.	FACE OF STUD
F.O.W.	FACE OF WALL
FP OR F.P.	FULL PENETRATION
FRMG	FRAMING
FS	FAR SIDE
F.S.	FIELD SCREWING
FT	FOOT or FEET
FTG	FOOTING
FY	YIELD STRESS OF STEEL
GA	GAGE or GAUGE
GALV	GALVANIZED
GC or GEN CONTR	GENERAL CONTRACTOR
GLB	GLUE LAMINATED BEAM
GLULAM	GLUE LAMINATED
GR	GRADE
G.S.N.	GENERAL STRUCTURAL NOTES
GT	GIRDER TRUSS
H.A.S.	HEADED ANCHOR STUD
HORIZ or HOR	HORIZONTAL
H.S.	HIGH STRENGTH
HT or H.T.	HEIGHT or HIP TRUSS
I (in⁴)	MOMENT OF INERTIA
IAPMO	INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS
IBC	INTERNATIONAL BUILDING CODE
ICC	INTERNATIONAL CODE COUNCIL
I.D.	INSIDE DIAMETER
I.F.	INSIDE FACE
IN	INCH
INFO	INFORMATION
INT	INTERIOR
IOR	INSPECTOR OF RECORD
JT or J.T.	JOINT or JACK/END TRUSS
K	KIP - 1000 POUNDS
LFRS	LATERAL FORCE RESISTING SYSTEM
LGS	LIGHT GAUGE STEEL
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LOC	LOCATION
LSL	LAMINATED STRAND LUMBER
LVL	LAMINATED VENEER LUMBER
LWC	LIGHT WEIGHT CONCRETE
LWT	LIGHT WEIGHT
MACH	MACHINE
MATL	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MECH	MECHANICAL
MEMB	MEMBRANE
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MFR or MANUF	MANUFACTURER
MID	MIDDLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MASONRY JOINT
MO	MASONRY OPENING
NF or N.F.	NEAR FACE
No. or #	NUMBER
NOM	NOMINAL
NS or N.S.	NEAR SIDE
N-S	NORTH-SOUTH
N.T.S.	NOT TO SCALE
OC or O/C	ON CENTER
OD or O.D.	OUTSIDE DIAMETER
OF or O.F.	OUTSIDE FACE
O.H.	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
OSB	ORIENTED STRAND BOARD
OSHPD	OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
OWJ	OPEN WEB JOIST
PCI	PRESTRESSED CONCRETE INSTITUTE
P.C. or P/C	PRECAST
PCF	POUNDS PER CUBIC FOOT
PEN	PENETRATION
PL or ℙ	PLATE OR PROPERTY LINE
PERP	PERPENDICULAR
P.L.	PROPERTY LINE
PLF	POUNDS PER LINEAL FOOT
PLY or PLWD	PLYWOOD
PP	PANEL POINT or PARTIAL PENETRATION
PRELIM	PRELIMINARY
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSL	PARALLEL STRAND LUMBER
P.T. or P/T	POST TENSIONED
PT	PRESSURE TREATED
PWJ	PREFABRICATED WOOD JOIST
PWS	PUDDLE WELD
R or RAD	RADIUS
REINF	REINFORCED or REINFORCING
REQ'D	REQUIRED
RT	ROOF TRUSS
S.A.D.	SEE ARCHITECTURAL DRAWINGS
SCHED	SCHEDULE
SECT	SECTION
SEOR	STRUCTURAL ENGINEER OF RECORD
SFRS	SEISMIC FORCE RESISTING SYSTEM
SHT'G	SHEATHING
SHT	SHEET
SIM	SIMILAR
SL	SLOPED
SLV	SLEEVE or SHORT LEG VERTICAL
SLH	SHORT LEG HORIZONTAL
S.M.D.	SEE MECHANICAL DRAWINGS
SMS	SHEET METAL SCREWS
SJI	STEEL JOIST INSTITUTE
SOG	SLAB ON GRADE
SPCG	SPACING
SPEC	SPECIFICATION
SQ	SQUARE
SSC	SPECIAL SEISMIC CERTIFICATION
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STRUCT	STRUCTURE or STRUCTURAL
SYMM	SYMMETRICAL
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
THK	THICK or THICKNESS
THK'ND	THICKENED
TL	TOTAL LOAD
T.O.	TOP OF
T.O.C.	TOP OF CONCRETE
T.O.F.	TOP OF FOOTING
T.O.S.	TOP OF STEEL
T.O.SLAB	TOP OF SLAB
T.O.W.	TOP OF WALL
TOP'G	TOPPING
TR	TRUSS
TN or T.N.	TOE NAIL
TYP	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT	VERTICAL
V.I.F.	VERIFY IN FIELD
w/	WITH
w/o	WITHOUT
WD	WOOD
WP	WORKING POINT
WT or WGT	WEIGHT
WWF or WWM	WELDED WIRE FABRIC or MESH
X-BRACE	CROSS BRACING
XS	EXTRA STRONG
XXS	DOUBLE EXTRA STRONG

LEGEND

GENERAL

- A / S0350 — ELEVATION A ON S0350
- B / S0360 — SECTION B ON S0360
- 4 / S0600 — DETAIL 4 ON S600
- T.O.X. — TOP OF STRUCTURE ELEVATION AT THE LOCATION SHOWN. SEE ABBREVIATION LIST FOR MORE INFO.
- STEP IN TOP OF STRUCTURE
- STEP IN BOTTOM OF STRUCTURE
- SLOPE TRANSITION IN TOP OF STRUCTURE
- SLOPE TRANSITION IN BOTTOM OF STRUCTURE
- DEPRESSED OR SLOPED SURFACE SEE ARCHITECTURAL DRAWINGS
- XX / XX 1000# — MECHANICAL EQUIPMENT MARK AND MAXIMUM WEIGHT SEE S0900

STEEL

- SC — STEEL COLUMN PER SCHEDULE 5 / S0415
- WIDE FLANGE STEEL COLUMN AT THIS LEVEL
- WIDE FLANGE STEEL COLUMN BELOW THIS LEVEL
- HSS TUBE COLUMN AT THIS LEVEL
- HSS TUBE COLUMN BELOW THIS LEVEL
- HSS PIPE COLUMN AT THIS LEVEL
- ( ) HSS PIPE COLUMN BELOW THIS LEVEL
- LATERAL SYSTEM MOMENT CONNECTION PER ELEVATION
- SPECIAL SIDE PLATE MOMENT CONNECTION PER ELEVATION
- GRAVITY MOMENT CONNECTION
- STEEL DRAG CONNECTION PER 16 / S0810, U.N.O.
- FULL-DEPTH CONNECTION PER 8 / S0810, U.N.O.
- BRACE FRAME DIAGONAL ABOVE PER ELEVATION
- BRACE FRAME DIAGONAL BELOW PER ELEVATION
- STRUCTURAL FRAMING PER PLAN
- DIAGONAL BRACE FROM BEAM BOTTOM FLANGE PER 13 / S0810, U.N.O.
- (ARROW AT TOP END OF BRACE)
- 4 — NUMBER OF BOLTS AT CONNECTION, IF DIFFERENT THAN TYPICAL
- BEAM SIZE
- NUMBER OF STUDS IF DIFFERENT FROM MINIMUM
- BEAM CAMBER AT MIDSPAN
- W14x22 [6] c=3/4" (-3") — T.O.S. OFFSET FROM TYPICAL, WHERE OCCURS
- WT/HSS — WT OR HSS FILLER AT TOP FLANGE PER 16 / S0806 OR 17 / S0806, U.N.O.
- 8x16 — RECTANGULAR WEB PENETRATION (INCHES) PER 11 / S0810, U.N.O.
- 4"ø — ROUND WEB PENETRATION PER 12 / S0810, U.N.O.
- SPAN OF STEEL FLOOR OR ROOF DECK COMPOSITE WITH CONCRETE SLAB
- SPAN OF STEEL DECK WITHOUT CONCRETE
- SFRS — A MEMBER OR DETAIL WHICH IS PART OF THE SEISMIC FORCE RESISTING SYSTEM. SEE GSN SECTION STEEL PART OF THE SEISMIC FORCE RESISTING SYSTEM (SFRS) FOR REQUIREMENTS
- DC — A DEMAND CRITICAL WELD. SEE GSN SECTION STEEL PART OF THE SEISMIC FORCE RESISTING SYSTEM (SFRS) FOR REQUIREMENTS
- AE — ARCHITECTURALLY EXPOSED STRUCTURAL STEEL, SEE GSN SECTION STRUCTURAL NOTES FOR REQUIREMENTS

CONCRETE AND MASONRY

- F — FOOTING PER SCHEDULE 5 / S0500
- S S — DENOTES APPROX. LOCATION OF STEP IN FOOTING PER 20 / S0500
- INDICATES REINFORCED CONCRETE SLAB ON GRADE

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FACILITY #: 12372
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CONSULTANT SEAL

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STATE OF CALIFORNIA

12/15/2021

KEY PLAN

Drawing Title:

GENERAL STRUCTURAL NOTES

Issue Date: 01/21/2022

Project No.: 006240.00 Checked by: AP/LS

S0005

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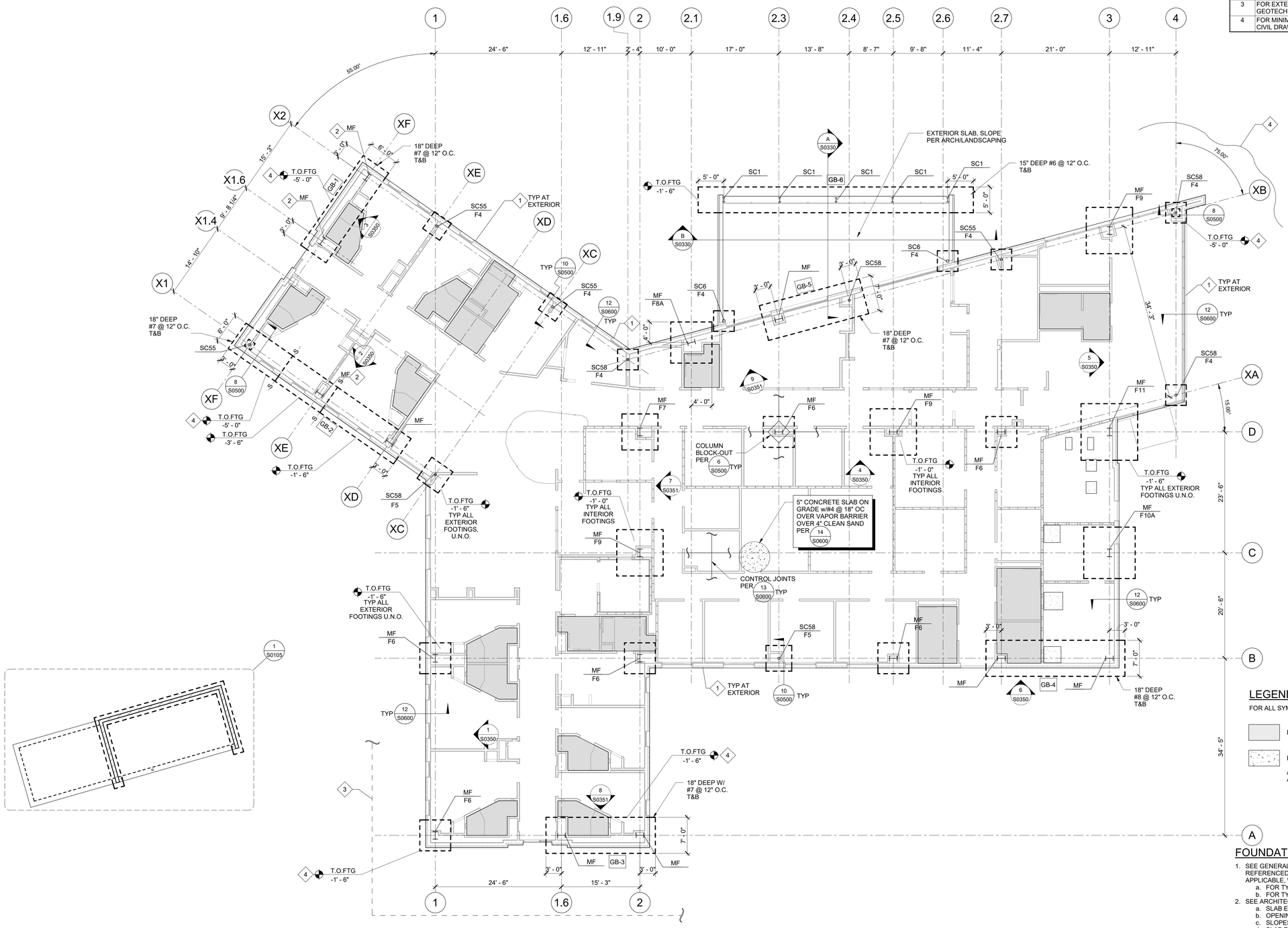
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KEYNOTES

KEY	Keynote Text
1	EXTERIOR WALL SYSTEM PER ARCHITECT. SEE S0806 FOR MORE INFO
2	MF COLUMNS AT DROPPED FOOTINGS SHALL EXTEND DOWN TO T.O.F. AND SHALL BE ENCASED IN CONCRETE OR SLURRY
3	FOR EXTENT OF SOIL OVER-EXCAVATION SEE 12/S0500 AND GEOTECH REPORT, TYP AROUND BUILDING
4	FOR MINIMUM FOUNDATION SETBACK AT SLOPED GRADES SEE CIVIL DRAWINGS AND 15/S0500, TYP AROUND BUILDING



1 LEVEL 01 FOUNDATION PLAN F.F.= 100'-0" = 0'-0"
SCALE: 1/8" = 1'-0"

NORTH

LEGEND:

FOR ALL SYMBOLS AND ABBREVIATIONS NOT SHOWN SEE SHEET S0005

DEPRESSED SLAB ON GRADE PER 19/S0600

DEPRESSED SLAB ON GRADE PER 18/S0600 SEE ARCHITECTURAL AND MEP DRAWINGS FOR LOCATIONS AND ADDITIONAL INFORMATION.

FOUNDATION NOTES:

1. SEE GENERAL NOTES AND TYPICAL DETAILS FOR INFORMATION NOT REFERENCED. TYPICAL DETAILS SHALL BE FOLLOWED WHERE APPLICABLE, WHETHER OR NOT REFERENCED ON PLAN.
   a. FOR TYPICAL FOUNDATION DETAILS, SEE SHEET S0500
   b. FOR TYPICAL CONCRETE DETAILS, SEE SHEET S0600
2. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND VERIFICATION OF:
   a. SLAB EDGE DIMENSIONS
   b. OPENING SIZES AND LOCATIONS
   c. SLOPES AND DRAIN ELEVATIONS
   d. SLAB ELEVATIONS
3. COLUMNS ARE CENTERED ON GRIDLINES, UNLESS OTHERWISE DIMENSIONED ON PLANS.
4. ALL INTERIOR FOOTINGS ARE -1'-0" BELOW F.F. AND PERIMETER FOOTINGS ARE -1'-6" BELOW F.F. UNLESS OTHERWISE NOTES.
5. T.O.C. INDICATES ELEVATION RELATIVE TO F.F.
6. SEE ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR EQUIPMENT LOCATIONS AND EQUIPMENT SCHEDULES ON S0900 FOR ANCHORAGE DETAILS.
7. PRIOR TO THE CONTRACTOR REQUESTING A BUILDING DEPARTMENT FOUNDATION INSPECTION, THE SOILS ENGINEER SHALL ADVISE THE BUILDING OFFICIAL IN WRITING THAT:
   A. THE BUILDING PAD WAS PREPARED IN ACCORDANCE WITH THE SOIL REPORT,
   B. THE UTILITY TRENCHES HAVE BEEN PROPERLY BACKFILLED AND COMPACTED, AND
   C. THE FOUNDATION EXCAVATIONS COMPLY WITH THE INTENT OF THE SOIL REPORT.
8. SITE IMPROVEMENT HAVE BEEN SLOPED AWAY FROM THE BUILDING. LANDSCAPED SURFACES ARE GENERALLY SLOPED AWAY FROM THE BUILDING AT 5% WITH THE EXCEPTION OF AREA USED FOR PEDESTRIAN PATH, SUCH AS PAVED COURTYARDS AND GRAVEL EMERGENCY ACCESS PATHS WHICH ARE SLOPED AT 2% MAXIMUM.

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REGISTERED PROFESSIONAL ENGINEER
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12/15/2021

KEY PLAN

Drawing Title:

LEVEL 01 FOUNDATION PLAN

Issue Date: 01/21/2022
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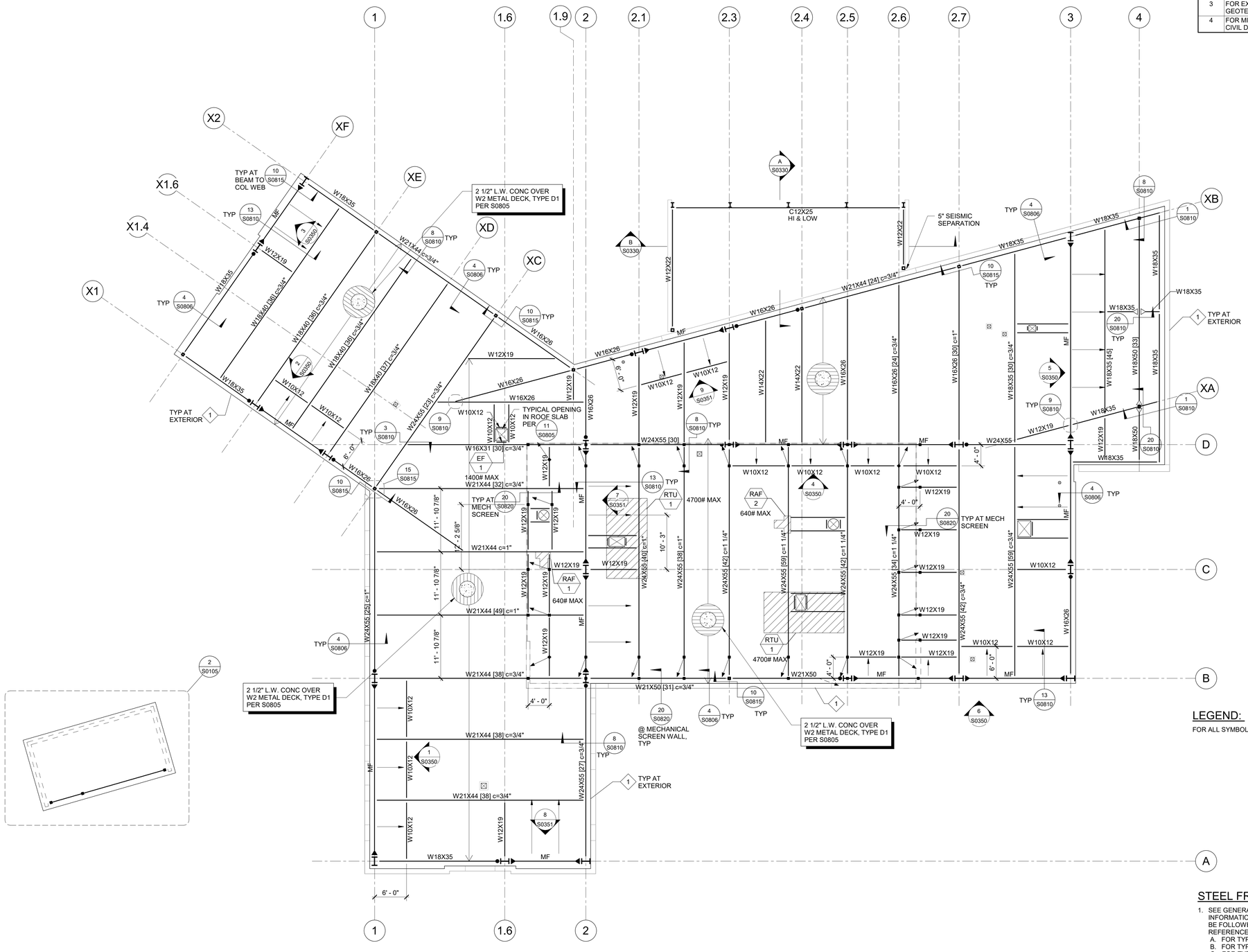
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KEYNOTES

KEY	Keynote Text
1	EXTERIOR WALL SYSTEM PER ARCHITECT. SEE S0806 FOR MORE INFO
2	MF COLUMNS AT DROPPED FOOTINGS SHALL EXTEND DOWN TO T.O.F. AND SHALL BE ENCASED IN CONCRETE OR SLURRY
3	FOR EXTENT OF SOIL OVER-EXCAVATION SEE 12/S0500 AND GEOTECH REPORT, TYP AROUND BUILDING
4	FOR MINIMUM FOUNDATION SETBACK AT SLOPED GRADES SEE CIVIL DRAWINGS AND 15/S0500, TYP AROUND BUILDING



1 MAIN ROOF FRAMING PLAN O.C.= 15'-0"
SCALE: 1/8" = 1'-0"

NORTH

LEGEND:

FOR ALL SYMBOLS AND ABBREVIATIONS NOT SHOWN SEE SHEET S0005

STEEL FRAMING PLAN NOTES:

1. SEE GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS FOR INFORMATION NOT SPECIFICALLY REFERENCED. TYPICAL DETAILS SHALL BE FOLLOWED WHERE APPLICABLE WHETHER OR NOT THEY ARE REFERENCED ON PLAN.
   A. FOR TYPICAL CONCRETE DETAILS SEE S0600
   B. FOR TYPICAL CONCRETE OVER METAL DECK DETAILS SEE S0805
   C. FOR TYPICAL EDGE OF DECK AND DEPRESSION DETAILS SEE S0806
   D. FOR TYPICAL STEEL BEAM DETAILS SEE S0810
   E. FOR TYPICAL STEEL COLUMN DETAILS SEE S0815
   F. FOR TYPICAL MOMENT FRAME DETAILS SEE S0840 AND S0841.
2. TOP OF STEEL = (-0'-4 1/2") BELOW T.O.CONC, TYP U.N.O.
2. EQUALLY SPACE BEAMS IN BAYS, U.N.O.
3. SEE ARCHITECTURAL DRAWINGS FOR SLAB DIMENSIONS, OPENINGS, SLOPES AND DEPRESSIONS NOT SHOWN.
4. SEE ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR EQUIPMENT LOCATIONS AND EQUIPMENT SCHEDULES ON S0900 FOR ANCHORAGE DETAILS.
5. PROVIDE 3/4"Ø SHEAR CONNECTORS ON ALL STEEL BEAMS AT 24" O.C. U.N.O. SEE TYPICAL COMPOSITE DECK DETAILS, SEE SHEET S0805.
6. SEE ARCHITECTURAL DRAWINGS FOR CONCRETE CURBS OVER COMPOSITE DECK.

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KEY PLAN

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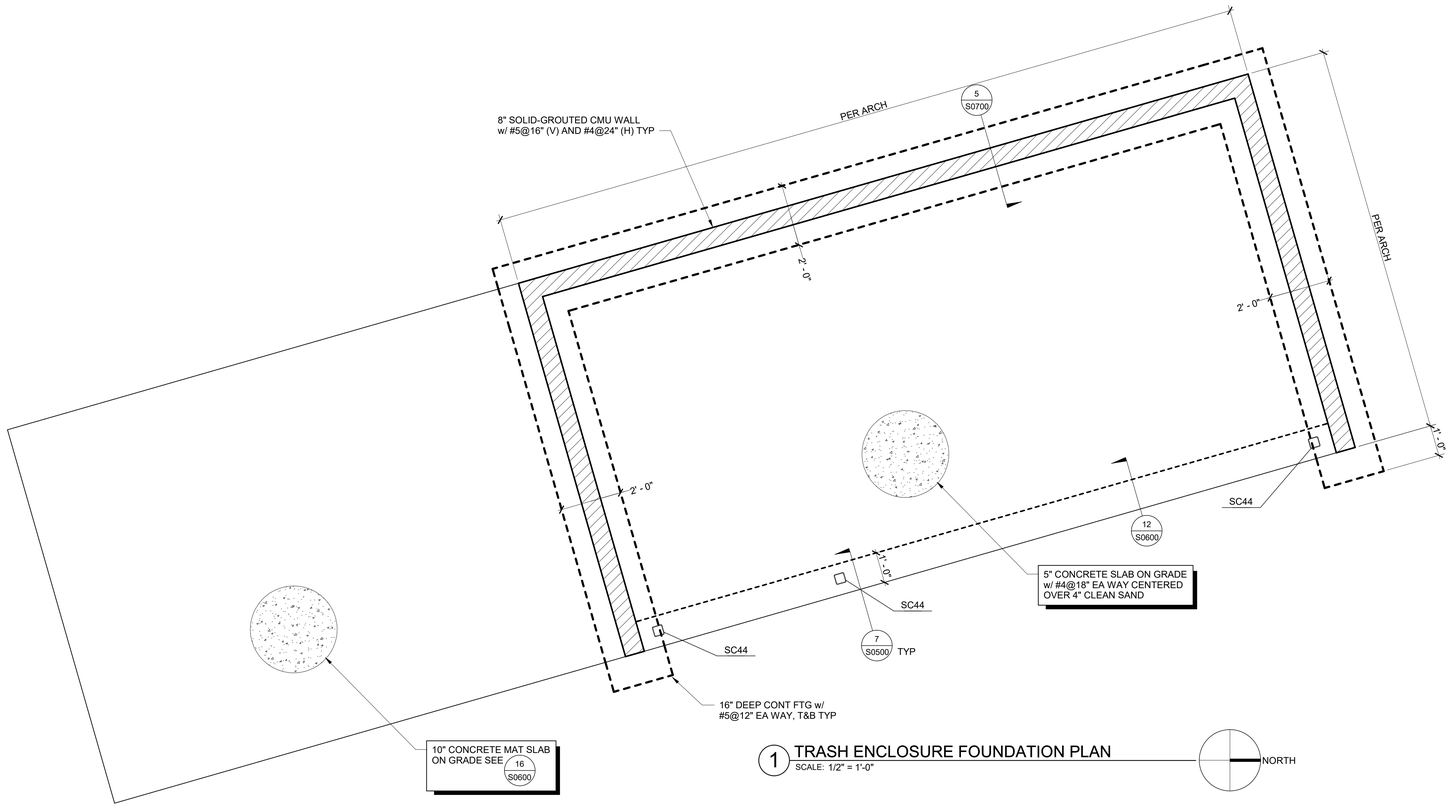
ROOF FRAMING PLAN

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Project No.: 006240.00 Checked by: AP/LS

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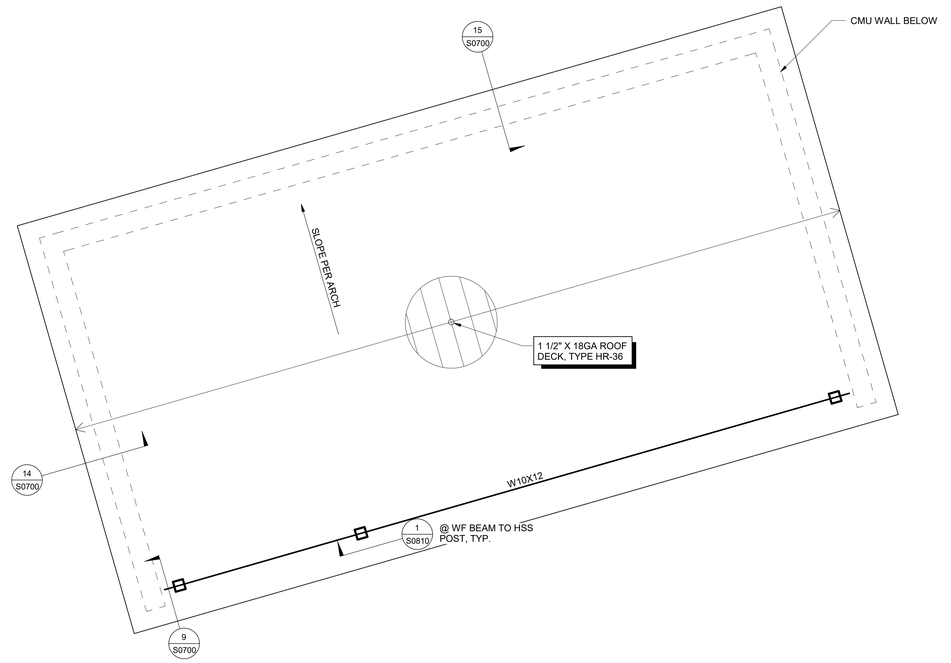
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1 TRASH ENCLOSURE FOUNDATION PLAN
SCALE: 1/2" = 1'-0"

NORTH



2 TRASH ENCLOSURE ROOF PLAN
SCALE: 1/2" = 1'-0"

NORTH

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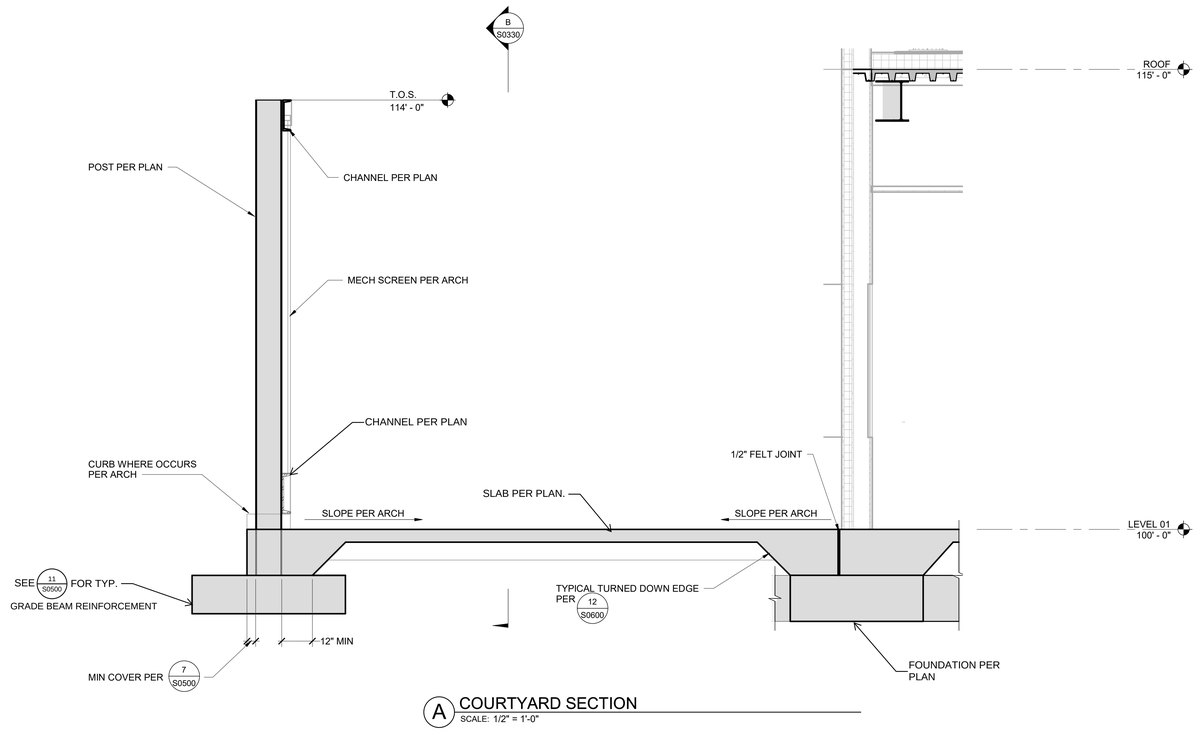
SITE STRUCTURAL PLANS

Issue Date:	01/21/2022
Project No.: 006240.00	Checked by: Checker

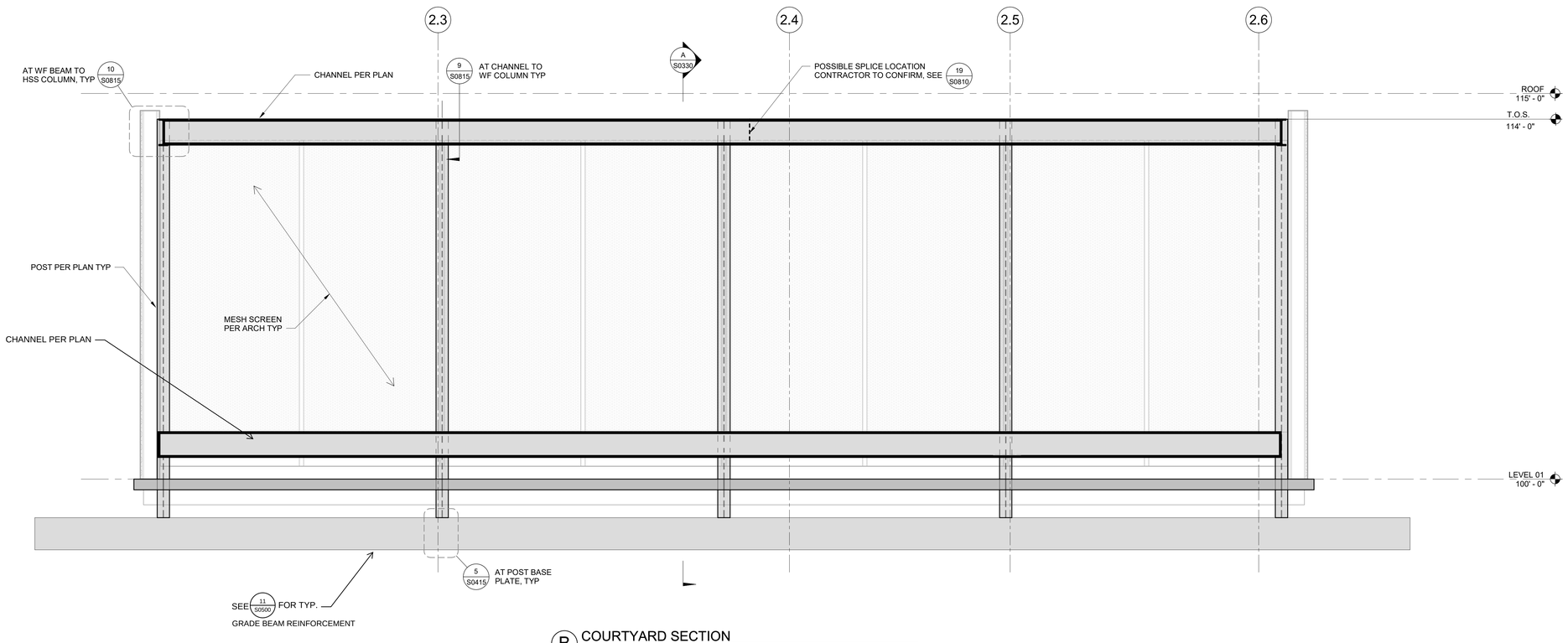
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A COURTYARD SECTION
SCALE: 1/2" = 1'-0"



B COURTYARD SECTION
SCALE: 1/2" = 1'-0"

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KEY PLAN

Drawing Title:

COURTYARD SECTIONS

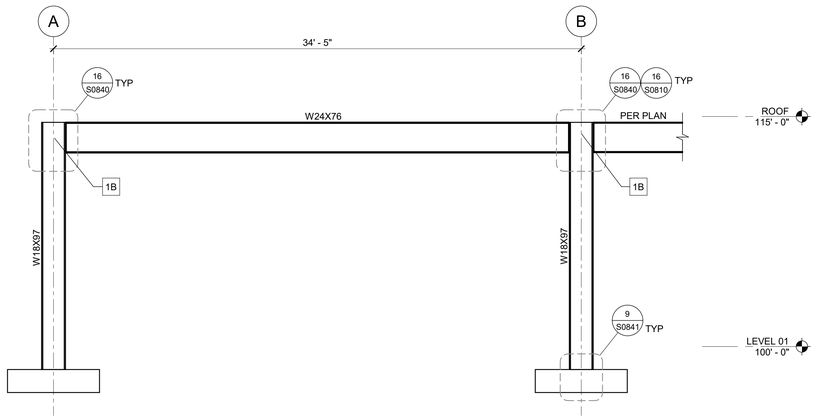
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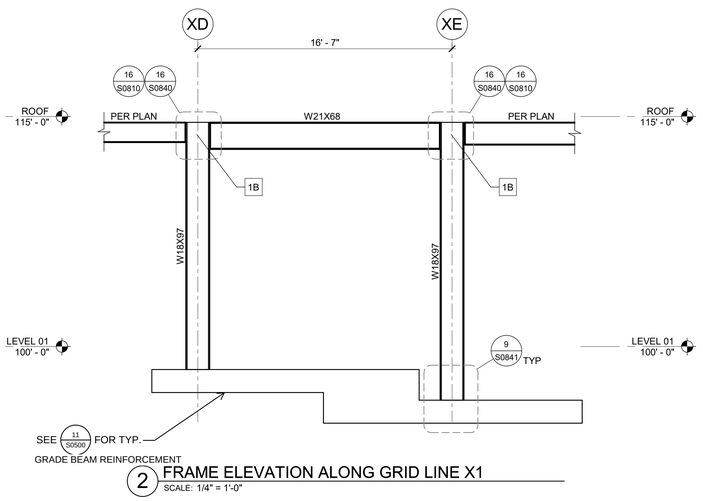
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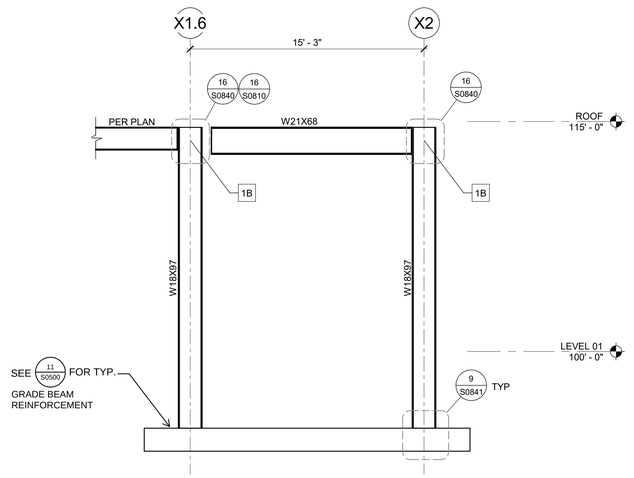
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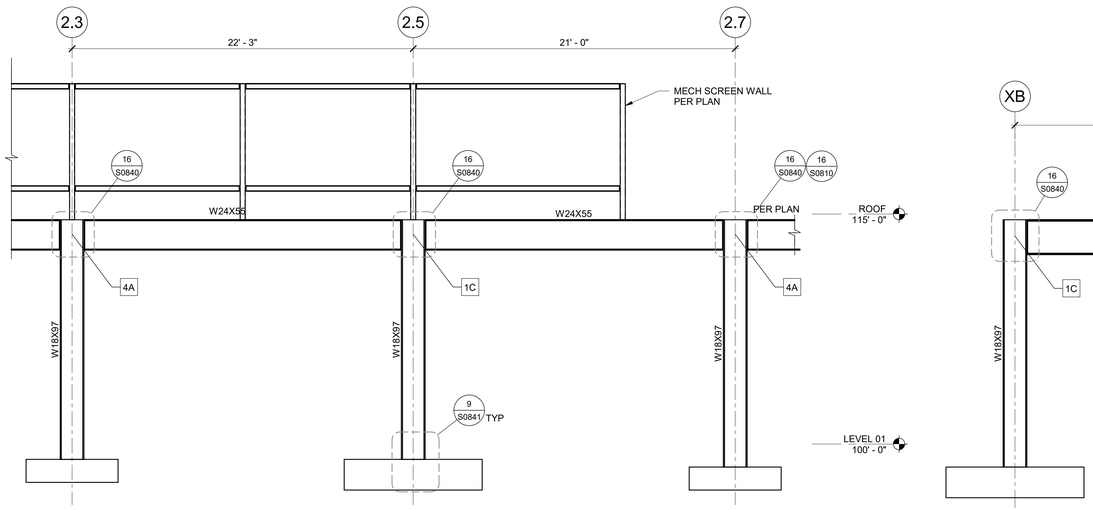
1 FRAME ELEVATION ALONG GRID LINE 1
SCALE: 1/4" = 1'-0"



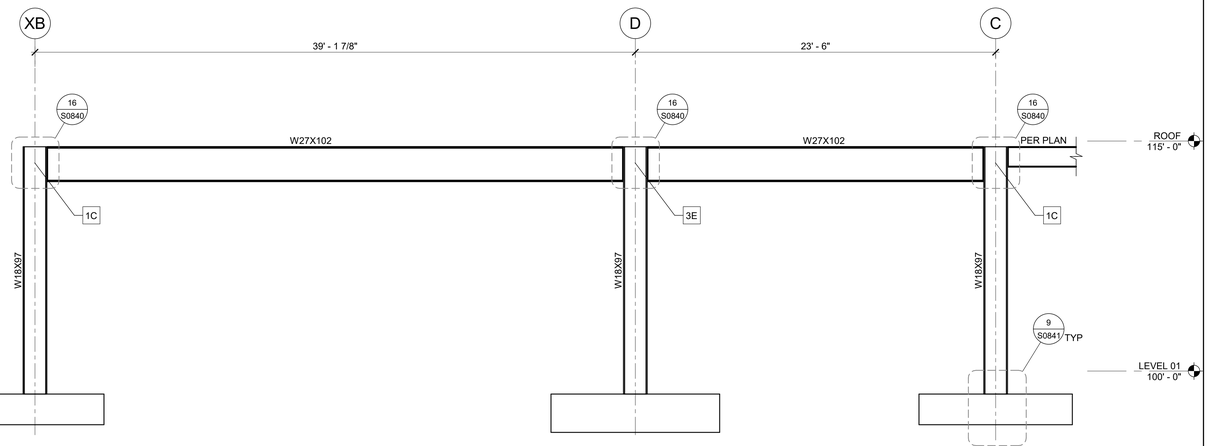
2 FRAME ELEVATION ALONG GRID LINE X1
SCALE: 1/4" = 1'-0"



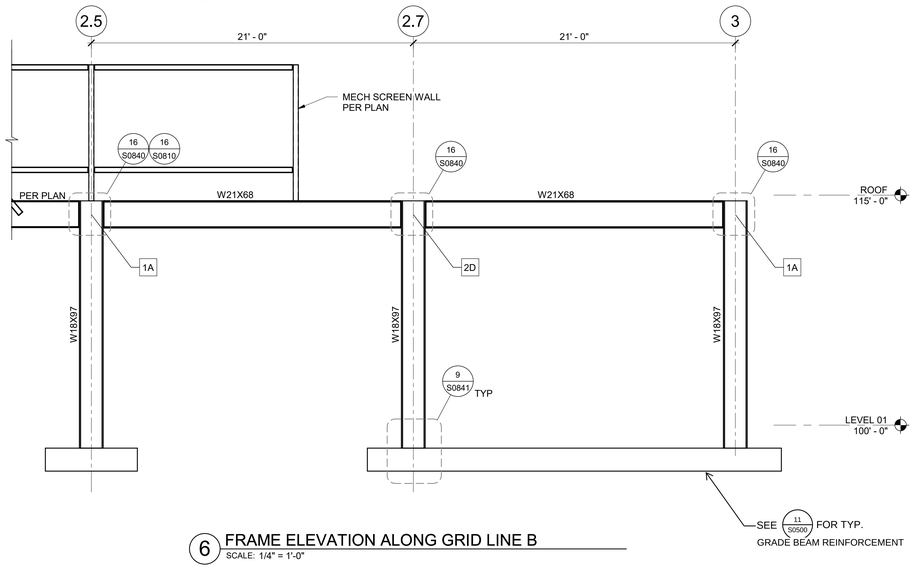
3 FRAME ELEVATION ALONG GRID LINE XF
SCALE: 1/4" = 1'-0"



4 FRAME ELEVATION ALONG GRID LINE D
SCALE: 1/4" = 1'-0"



5 FRAME ELEVATION ALONG GRID LINE 3
SCALE: 1/4" = 1'-0"



6 FRAME ELEVATION ALONG GRID LINE B
SCALE: 1/4" = 1'-0"

LEGEND:

1A DOUBLER PLATE SCHEDULE PER 5 S0840

CONTINUITY PLATE SCHEDULE PER 20 S0840

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Tri-City Medical Center
Psychiatric Health Facility

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No. 54446
Exp. 3/31/22
STRUCTURAL
STATE OF CA. LICENSE

12/15/2021

KEY PLAN

Drawing Title:

FRAME ELEVATIONS

Issue Date: 01/21/2022

Project No.: 006240.00 Checked by: AP/LS

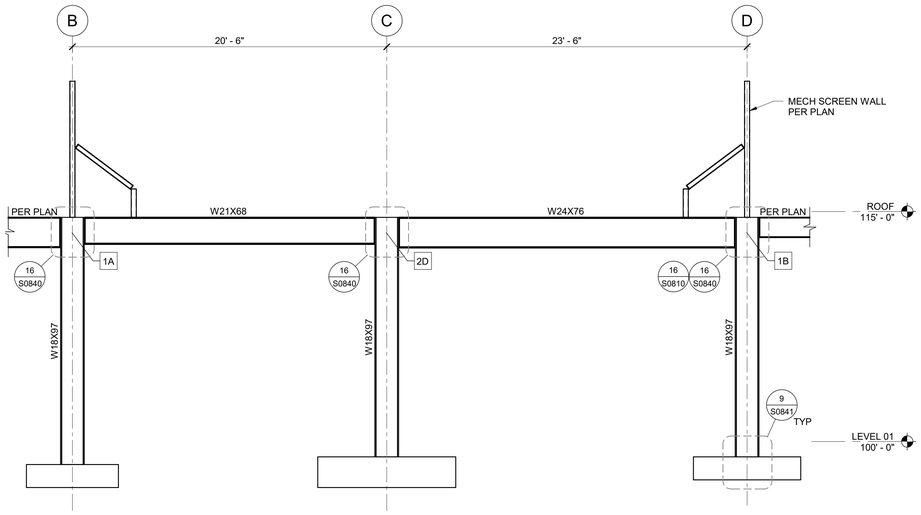
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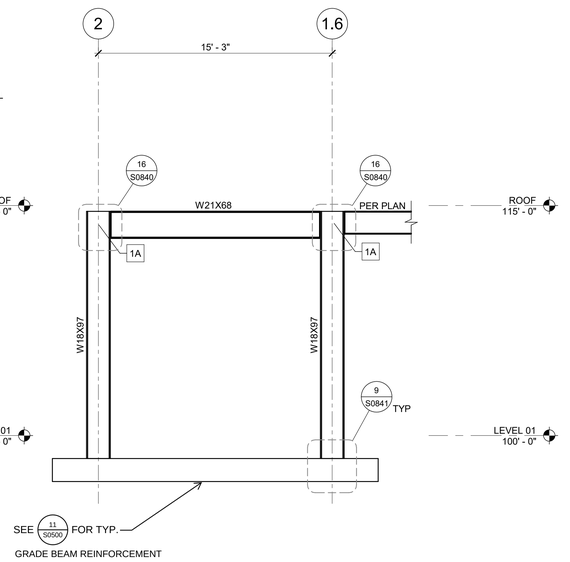
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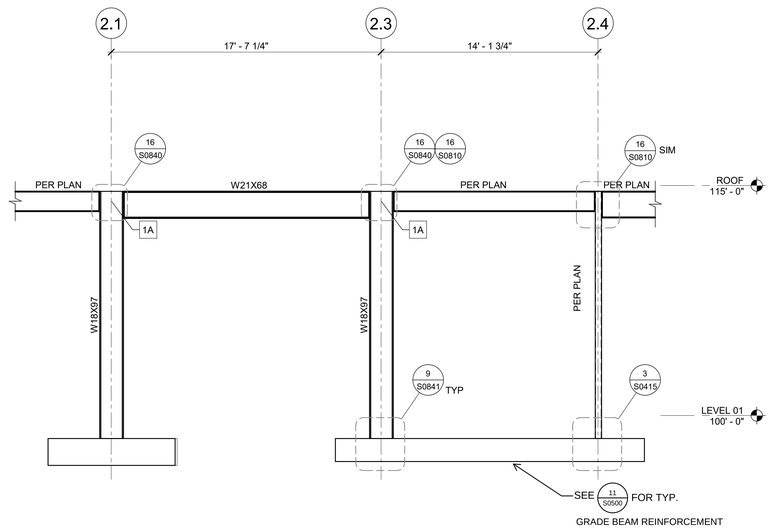
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7 FRAME ELEVATION ALONG GRID LINE 2
SCALE: 1/4" = 1'-0"



8 FRAME ELEVATION ALONG GRID LINE A
SCALE: 1/4" = 1'-0"



9 FRAME ELEVATION ALONG GRID LINE XB
SCALE: 1/4" = 1'-0"

LEGEND:

1A DOUBLER PLATE SCHEDULE PER 5 S0840

CONTINUITY PLATE SCHEDULE PER 20 S0840

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STATE OF CALIFORNIA

12/15/2021

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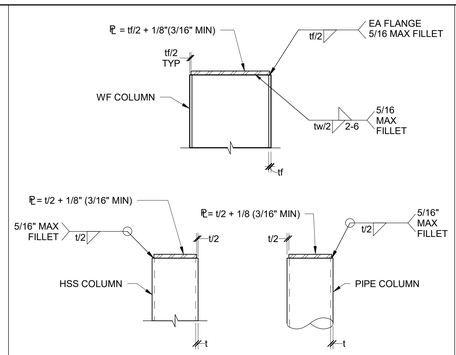
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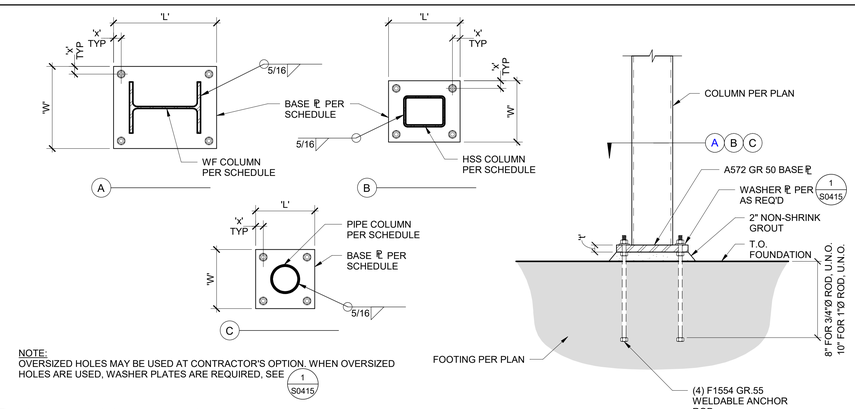
MAXIMUM SIZES FOR ANCHOR ROD HOLES IN BASE PLATES			
ANCHOR ROD DIAMETER, (IN)	MAX HOLE DIMETER (IN)	MIN WASHER SIZE (IN)	MIN WASHER THICKNESS (IN)
3/4	1 5/16	2	1/4
7/8	1 9/16	2 1/2	5/16
1	1 13/16	3	3/8
1 1/4	2 1/16	3	1/2
1 1/2	25/16	3 1/2	1/2
1 3/4	2 3/4	4	5/8
2	3 1/4	5	3/4
2 1/2	3 3/4	5 1/2	7/8

NOTE:
REF. AISC TABLE 14-2.

1 ANCHOR BOLT HOLE AND WASHER SIZE TABLE
NO SCALE



2 COLUMN CLOSURE PLATE DETAIL
NO SCALE



NOTE:
OVERSIZED HOLES MAY BE USED AT CONTRACTOR'S OPTION. WHEN OVERSIZED HOLES ARE USED, WASHER PLATES ARE REQUIRED, SEE 1 S0415

3 GRAVITY COLUMN BASE PLATE DETAIL
NO SCALE

STEEL GRAVITY COLUMN SCHEDULE								
MARK	SIZE	BASE PLATE t	BASE PLATE W	BASE PLATE L	BASE PLATE x	ANCHOR BOLT DIAMETER	TYPE	DETAIL
SC1	W10x22	1"	1'-6"	2'-0"	2"	1"ø	A	3 S0415
SC55	HSS5x5x5/16	3/4"	1'-0"	1'-0"	1 1/2"	3/4"ø	B	
SC58	HSS5x5x1/2	3/4"	1'-0"	1'-0"	1 1/2"	3/4"ø	B	
SC6	HSS6x6x1/2"	1"	1'- 2"	1'-2"	2"	1"ø	B	
SC44	HSS4x4x1/4	1/2"	0'-10"	0'-10"	1 1/2"	1/2"ø	B	

5 STEEL GRAVITY COLUMN SCHEDULE
NO SCALE

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STATE OF CALIFORNIA

12/15/2021

KEY PLAN

Drawing Title:

STEEL COLUMN TYPICAL DETAILS

Issue Date: 01/21/2022

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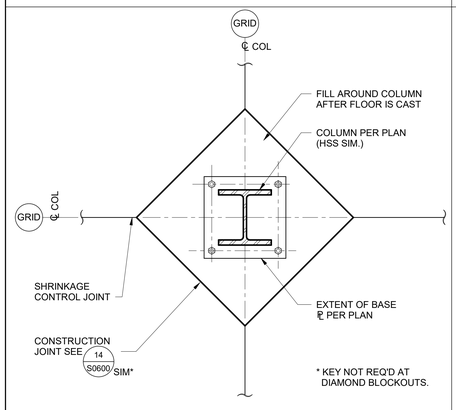
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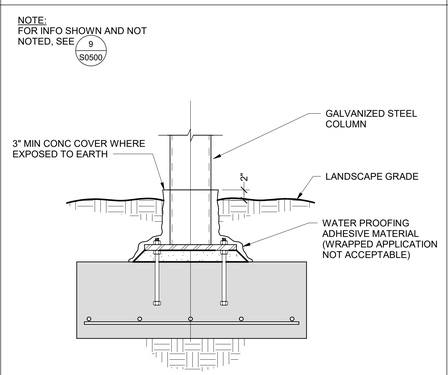
FOOTING SCHEDULE				
MARK	SIZE	MIN ✱ THICKNESS	REINFORCING BOTTOM	REINFORCING TOP
F4	4'-0"x4'-0"	15"	(5) #5 EA WAY	
F5	5'-0"x5'-0"	15"	(4) #6 EA WAY	
F6	6'-0"x6'-0"	18"	(6) #6 EA WAY	
F7	7'-0"x7'-0"	18"	(7) #6 EA WAY	
F8A	8'-0"x8'-0"	21"	(8) #7 EA WAY	(8) #7 EA WAY
F9	9'-0"x9'-0"	24"	(8) #8 EA WAY	
F10A	10'-0"x10'-0"	24"	(10) #8 EA WAY	(10) #8 EA WAY
F11	11'-0"x11'-0"	30"	(12) #8 EA WAY	

✱ THICKEN AS REQUIRED TO MEET MINIMUM EMBEDMENT REQUIREMENTS OF G.S.N.

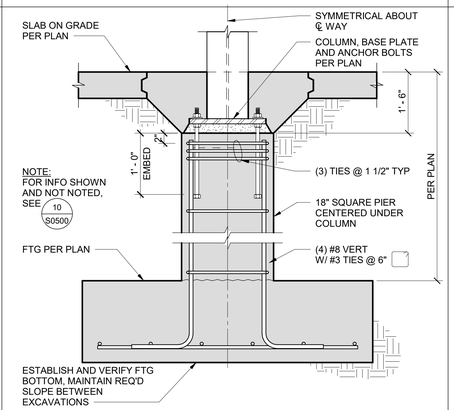
5 FOOTING SCHEDULE
NO SCALE



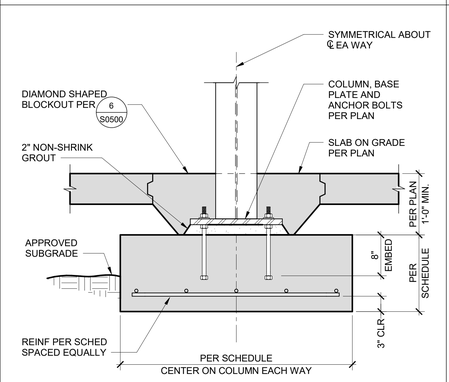
6 STEEL COLUMN ISOLATION JOINT
NO SCALE



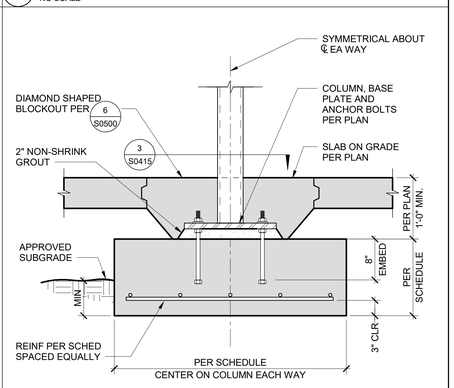
7 STEEL COLUMN BASE AT EXPOSED CONDITION
NO SCALE



8 PEDESTAL FOOTING FOR STEEL COLUMN
NO SCALE



9 STEEL COLUMN ON SPREAD FOOTING
NO SCALE

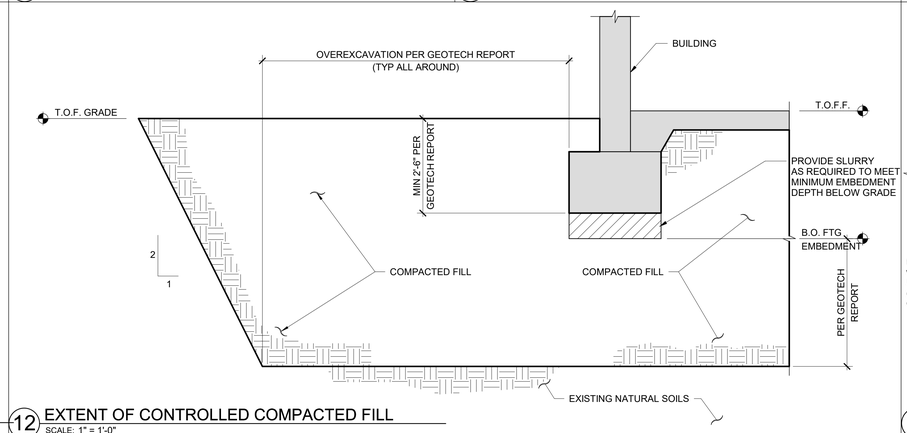


10 STEEL COLUMN ON SPREAD FOOTING
SCALE: 1" = 1'-0"

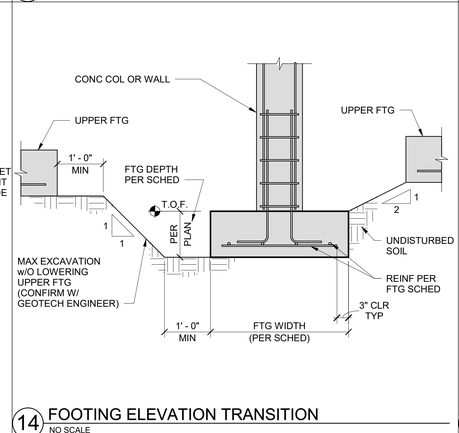
GRADE BEAM SCHEDULE			
MARK	SIZE (WxD)	REINFORCING	TIES
GB-1	6'-0"x18"	#7@12" T&B	#4@24"
GB-2	6'-0"x18"	#7@12" T&B	#4@24"
GB-3	7'-0"x18"	#7@12" T&B	#4@24"
GB-4	7'-0"x18"	#8@12" T&B	#4@18"
GB-5	7'-0"x18"	#7@12" T&B	#4@24"
GB-6	5'-0"x15"	#6@12" T&B	#3@24"

NOTE:
1. SEE FRAME ELEVATIONS ON SHEET S0350 AND S0351 FOR ADDED REINFORCEMENT.

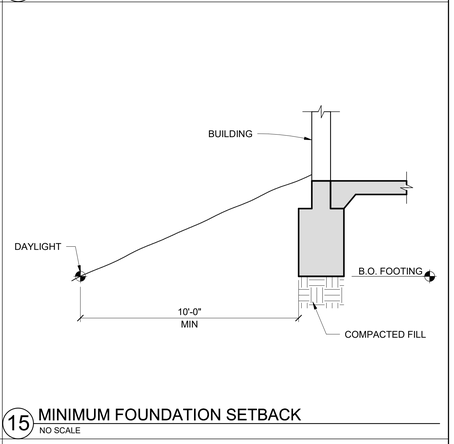
11 TYPICAL GRADE BEAM SCHEDULE
SCALE: 1" = 1'-0"



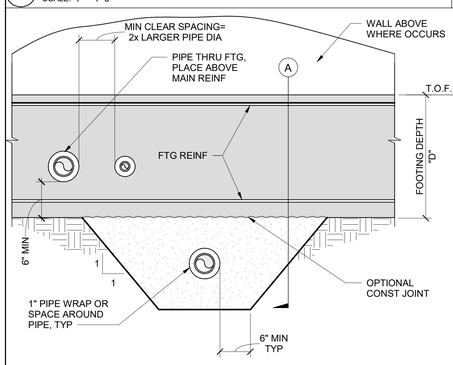
12 EXTENT OF CONTROLLED COMPACTED FILL
SCALE: 1" = 1'-0"



14 FOOTING ELEVATION TRANSITION
NO SCALE

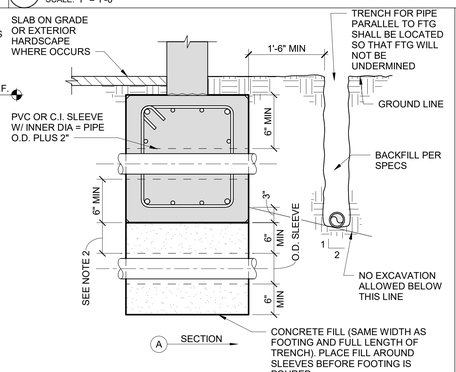


15 MINIMUM FOUNDATION SETBACK
NO SCALE

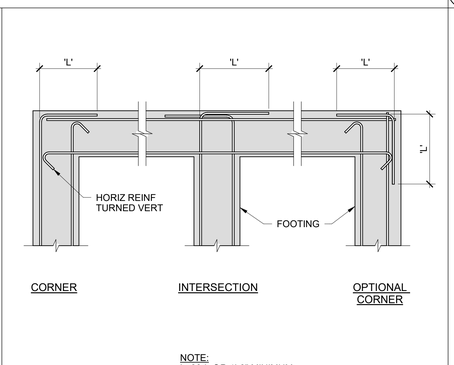


ELEVATION

16 TYPICAL PIPE PENETRATIONS AT FOOTINGS
NO SCALE

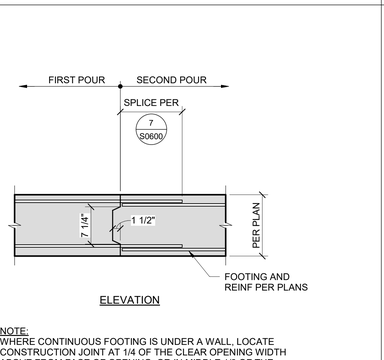


NOTES:
1. PIPE SHALL NOT PASS THROUGH OR BE PLACED UNDER COLUMN FOOTING.
2. FOR PIPES MORE THAN 3'-0" BELOW BOTTOM OF FOOTING, TRENCH MAY BE BACKFILLED WITH CONTROLLED, COMPACTED FILL PER SPECIFICATIONS OR LEAN CONCRETE.



NOTE:
L=30d_b OR 1'-6" MINIMUM

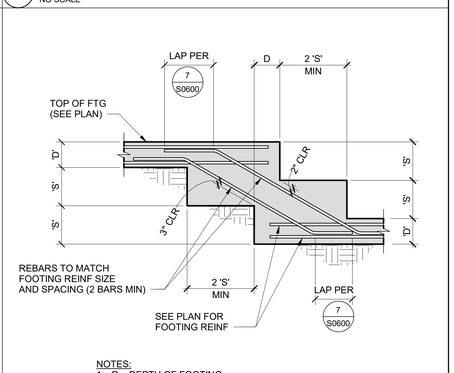
18 TYPICAL FOUNDATION INTERSECTIONS
NO SCALE



ELEVATION

NOTE:
WHERE CONTINUOUS FOOTING IS UNDER A WALL, LOCATE CONSTRUCTION JOINT AT 1/4 OF THE CLEAR OPENING WIDTH ABOVE FROM FACE OF OPENING, OR IN MIDDLE 1/3 OF THE DISTANCE BETWEEN COLUMNS.

19 CONTINUOUS FOOTING CONSTRUCTION JOINT
NO SCALE



NOTES:
1. D = DEPTH OF FOOTING
2. S = 1'-6" MAX, U.N.O.

20 TYPICAL STEPPED FOOTING DETAIL
NO SCALE

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STRUCTURAL
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12/15/2021

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Drawing Title:

FOUNDATION TYPICAL DETAILS

Issue Date:	01/21/2022
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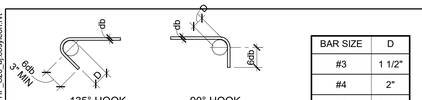
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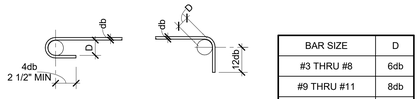


BAR SIZE	D
#3	1 1/2"
#4	2"
#5	2 1/2"

TIES & STIRRUPS HOOKS ONLY



TYPICAL BAR OFFSET



BAR SIZE	D
#3 THRU #8	6db
#9 THRU #11	8db
#14 THRU #18	10db

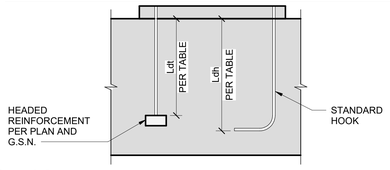
STANDARD HOOKS

1 REINFORCING BAR BENDING DETAIL
NO SCALE

NOTES:
1. INCREASE EMBED DEPTH FOR EACH OF THE FOLLOWING CONDITIONS WHEN THEY OCCUR:
   A. f_y > 60 KSI: MULTIPLY LENGTH BY f_y/60
   B. EPOXY COATED REBAR: MULTIPLY LENGTH BY 1.2
   C. LIGHTWEIGHT CONCRETE: MULTIPLY LENGTH BY 1.33

CONCRETE STRENGTH psi	HEADED BAR EMBED, Ldt								
	#3	#4	#5	#6	#7	#8	#9	#10	#11
3000	0'-7"	0'-9"	0'-11"	1'-2"	1'-4"	1'-6"	1'-8"	1'-11"	2'-1"
4000	0'-6"	0'-8"	0'-10"	1'-0"	1'-2"	1'-4"	1'-6"	1'-8"	1'-10"
6000	0'-6"	0'-7"	0'-8"	0'-10"	0'-11"	1'-1"	1'-2"	1'-4"	1'-6"

CONCRETE STRENGTH psi	HOOKED BAR EMBED, Ldh								
	#3	#4	#5	#6	#7	#8	#9	#10	#11
3000	0'-9"	0'-11"	1'-2"	1'-5"	1'-8"	1'-10"	2'-1"	2'-4"	2'-7"
4000	0'-8"	0'-10"	1'-0"	1'-3"	1'-5"	1'-7"	1'-10"	2'-1"	2'-3"
6000	0'-6"	0'-8"	0'-10"	1'-0"	1'-2"	1'-4"	1'-6"	1'-8"	1'-10"



6 HOOKED AND HEADED REBAR EMBEDMENT
NO SCALE

CASE 1* - BAR CENTER TO CENTER SPACING ≥ 6" (NORMAL WEIGHT, GRADE 60, UNCOATED)

CONCRETE STRENGTH (PSI)	CLEAR COVER (IN)	BAR SIZE →	#3		#4		#5		#6		#7		#8		#9		#10		#11	
		LAP CLASS →	Ld	LAP	Ld	LAP	Ld	LAP	Ld	LAP	Ld	LAP	Ld	LAP	Ld	LAP	Ld	LAP	Ld	LAP
3000	1.00	TOP	1'-1"	1'-5"	1'-6"	1'-11"	2'-2"	2'-10"	2'-11"	3'-10"	4'-9"	6'-2"	6'-0"	7'-9"	7'-3"	9'-5"	8'-10"	11'-5"	10'-5"	13'-6"
		BOTTOM	1'-0"	1'-4"	1'-2"	1'-6"	1'-8"	2'-2"	2'-3"	2'-11"	3'-8"	4'-9"	4'-7"	6'-0"	5'-7"	7'-3"	6'-10"	8'-10"	8'-0"	10'-5"
	2.00	TOP	1'-1"	1'-5"	1'-6"	1'-11"	1'-10"	2'-4"	2'-2"	2'-10"	3'-2"	4'-1"	3'-7"	4'-8"	4'-6"	5'-9"	5'-6"	7'-1"	6'-7"	8'-7"
		BOTTOM	1'-0"	1'-4"	1'-2"	1'-6"	1'-5"	1'-10"	1'-8"	2'-2"	2'-5"	3'-2"	2'-9"	3'-7"	3'-5"	4'-6"	4'-3"	5'-6"	5'-1"	6'-7"
	3.00	TOP	1'-1"	1'-5"	1'-6"	1'-11"	1'-10"	2'-4"	2'-2"	2'-10"	3'-2"	4'-1"	3'-7"	4'-8"	4'-1"	5'-3"	4'-10"	6'-3"	5'-11"	7'-9"
		BOTTOM	1'-0"	1'-4"	1'-2"	1'-6"	1'-5"	1'-10"	1'-8"	2'-2"	2'-5"	3'-2"	2'-9"	3'-7"	3'-2"	4'-1"	3'-9"	4'-10"	4'-7"	5'-11"
4000	1.00	TOP	1'-0"	1'-4"	1'-3"	1'-8"	1'-11"	2'-5"	2'-7"	3'-4"	4'-2"	5'-5"	5'-2"	6'-9"	6'-4"	8'-2"	7'-8"	9'-11"	9'-0"	11'-9"
		BOTTOM	1'-0"	1'-4"	1'-0"	1'-4"	1'-5"	1'-11"	2'-0"	2'-7"	3'-2"	4'-2"	4'-0"	5'-2"	4'-10"	6'-4"	5'-11"	7'-8"	6'-11"	9'-0"
	2.00	TOP	1'-0"	1'-4"	1'-3"	1'-8"	1'-7"	2'-1"	1'-11"	2'-5"	2'-9"	3'-7"	3'-1"	4'-1"	3'-10"	5'-0"	4'-9"	6'-2"	5'-8"	7'-5"
		BOTTOM	1'-0"	1'-4"	1'-0"	1'-4"	1'-3"	1'-7"	1'-6"	1'-11"	2'-1"	2'-9"	2'-5"	3'-1"	3'-0"	3'-10"	3'-8"	4'-9"	4'-5"	5'-8"
	3.00	TOP	1'-0"	1'-4"	1'-3"	1'-8"	1'-7"	2'-1"	1'-11"	2'-5"	2'-9"	3'-7"	3'-1"	4'-1"	3'-6"	4'-7"	4'-2"	5'-5"	5'-2"	6'-8"
		BOTTOM	1'-0"	1'-4"	1'-0"	1'-4"	1'-3"	1'-7"	1'-6"	1'-11"	2'-1"	2'-9"	2'-5"	3'-1"	2'-9"	3'-6"	3'-3"	4'-2"	4'-0"	5'-2"
5000	1.00	TOP	1'-0"	1'-4"	1'-2"	1'-6"	1'-8"	2'-2"	2'-4"	3'-0"	3'-9"	4'-10"	4'-8"	6'-0"	5'-8"	7'-4"	6'-10"	8'-11"	8'-1"	10'-6"
		BOTTOM	1'-0"	1'-4"	1'-0"	1'-4"	1'-4"	1'-8"	1'-9"	2'-4"	2'-10"	3'-9"	3'-7"	4'-8"	4'-4"	5'-8"	5'-3"	6'-10"	6'-3"	8'-1"
	2.00	TOP	1'-0"	1'-4"	1'-2"	1'-6"	1'-5"	1'-10"	1'-8"	2'-2"	2'-5"	3'-2"	2'-10"	3'-8"	3'-6"	4'-6"	4'-3"	5'-6"	5'-1"	6'-8"
		BOTTOM	1'-0"	1'-4"	1'-0"	1'-4"	1'-1"	1'-5"	1'-4"	1'-8"	1'-11"	2'-5"	2'-2"	2'-10"	2'-8"	3'-6"	3'-3"	4'-3"	3'-11"	5'-1"
	3.00	TOP	1'-0"	1'-4"	1'-2"	1'-6"	1'-5"	1'-10"	1'-8"	2'-2"	2'-5"	3'-2"	2'-10"	3'-8"	3'-2"	4'-1"	3'-9"	4'-10"	4'-7"	6'-0"
		BOTTOM	1'-0"	1'-4"	1'-0"	1'-4"	1'-1"	1'-5"	1'-4"	1'-8"	1'-11"	2'-5"	2'-2"	2'-10"	2'-5"	3'-2"	2'-11"	3'-9"	3'-7"	4'-7"

CASE 1 KEYNOTES:
1. IF THE DIMENSIONS SHOWN ON FIGURE 1 ARE NOT MET, REBAR DEVELOPMENT AND LAP SPLICE LENGTHS SHALL BE PER THE CASE 2 SCHEDULE.
2. INCREASE DEVELOPMENT AND SPLICE LENGTHS FOR EACH OF THE FOLLOWING CONDITIONS WHEN THEY OCCUR:
   A. f_y > 60 KSI: MULTIPLY LENGTH BY f_y/60
   B. EPOXY COATED REBAR: MULTIPLY LENGTH BY 1.2
   C. LIGHTWEIGHT CONCRETE: MULTIPLY LENGTH BY 1.33

CASE 2 - ALL OTHER BAR SPACINGS (NORMAL WEIGHT, GRADE 60, UNCOATED)

BAR DESCRIPTION AND LOCATION IN STRUCTURE	CONCRETE STRENGTH (PSI)	BAR SIZE →	#3		#4		#5		#6		#7		#8		#9		#10		#11	
		LAP CLASS →	Ld	LAP	Ld	LAP	Ld	LAP	Ld	LAP	Ld	LAP	Ld	LAP	Ld	LAP	Ld	LAP	Ld	LAP
BAR SPACING > 2x'd_b' & CLEAR COVER > 'd_b' OR BEAM & COLUMN BAR SPACING > 'd_b' & CLEAR COVER > 'd_b'	3000	TOP	1'-10"	2'-4"	2'-5"	3'-2"	3'-0"	3'-11"	3'-7"	4'-8"	5'-3"	6'-9"	6'-0"	7'-9"	6'-9"	8'-9"	7'-7"	9'-10"	8'-5"	10'-11"
		BOTTOM	1'-5"	1'-10"	1'-10"	2'-5"	2'-4"	3'-0"	2'-9"	3'-7"	4'-0"	5'-3"	4'-7"	6'-0"	5'-2"	6'-9"	5'-10"	7'-7"	6'-6"	8'-5"
	4000	TOP	1'-7"	2'-1"	2'-1"	2'-9"	2'-7"	3'-5"	3'-1"	4'-1"	4'-6"	5'-11"	5'-2"	6'-9"	5'-10"	7'-7"	6'-7"	8'-6"	7'-3"	9'-6"
		BOTTOM	1'-3"	1'-7"	1'-7"	2'-1"	2'-0"	2'-7"	2'-5"	3'-1"	3'-6"	4'-6"	4'-0"	5'-2"	4'-6"	5'-10"	5'-1"	6'-7"	5'-7"	7'-3"
	6000	TOP	1'-4"	1'-8"	1'-9"	2'-3"	2'-2"	2'-9"	2'-7"	3'-4"	3'-9"	4'-10"	4'-3"	5'-6"	4'-9"	6'-2"	5'-4"	7'-0"	5'11"	7'-9"
		BOTTOM	1'-0"	1'-4"	1'-4"	1'-9"	1'-8"	2'-2"	2'-0"	2'-7"	2'-10"	3'-9"	3'-3"	4'-3"	3'-8"	4'-9"	4'-2"	5'-4"	4'-7"	5'-11"
OTHER CASES	3000	TOP	2'-9"	3'-6"	3'-7"	4'-8"	4'-6"	5'-10"	5'-5"	7'-0"	7'-10"	10'-2"	8'-11"	11'-7"	10'-1"	13'-1"	11'-4"	14'-9"	12'-7"	16'-4"
		BOTTOM	2'-1"	2'-9"	2'-9"	3'-7"	3'-6"	4'-6"	4'-2"	5'-5"	6'-0"	7'-10"	6'-11"	8'-11"	7'-9"	10'-1"	8'-9"	11'-4"	9'-8"	12'-7"
	4000	TOP	2'-4"	3'-1"	3'-1"	4'-1"	3'-11"	5'-1"	4'-8"	6'-1"	6'-9"	8'-10"	7'-9"	10'-1"	8'-9"	11'-4"	9'-10"	12'-9"	10'-11"	14'-2"
		BOTTOM	1'-10"	2'-4"	2'-5"	3'-1"	3'-0"	3'-11"	3'-7"	4'-8"	5'-3"	6'-9"	6'-0"	7'-9"	6'-9"	8'-9"	7'-7"	9'-10"	8'-5"	10'-11"
	6000	TOP	1'-11"	2'-6"	2'-7"	3'-4"	3'-2"	4'-2"	3'-10"	4'-11"	5'-7"	7'-2"	6'-4"	8'-3"	7'-2"	9'-3"	8'-0"	10'-5"	8'-11"	11'-7"
		BOTTOM	1'-6"	1'-11"	2'-0"	2'-7"	2'-6"	3'-2"	2'-11"	3'-10"	4'-3"	5'-7"	4'-11"	6'-4"	5'-6"	7'-2"	6'-2"	8'-0"	6'-10"	8'-11"

CASE 2 KEYNOTES:
1. INCREASE DEVELOPMENT AND SPLICE LENGTHS FOR EACH OF THE FOLLOWING CONDITIONS WHEN THEY OCCUR:
   A. f_y > 60 KSI: MULTIPLY LENGTH BY f_y/60
   B. EPOXY COATED REBAR: MULTIPLY LENGTH BY 1.2
   C. LIGHTWEIGHT CONCRETE: MULTIPLY LENGTH BY 1.33

7 REBAR DEVELOPMENT LENGTHS AND LAP SPLICES
NO SCALE

NOTES:
1. TENSION DEVELOPMENT LENGTHS AND TENSION LAP SPLICES ARE CALCULATED PER ACI 318-14, SECTION 25.4 AND 25.5, RESPECTIVELY.
2. THESE TABLES ARE BASED ON UNCOATED GRADE 60 REBAR PLACED IN NORMAL WEIGHT CONCRETE. SEE KEYNOTES BELOW THE TABLES FOR ADJUSTMENTS TO TABLE VALUES.
3. THIS SCHEDULE IS NOT APPLICABLE TO DUCTILE MOMENT FRAME MEMBERS RESISTING SEISMIC FORCES.
4. ALL SPLICE LENGTHS SHALL BE PER "LAP" LENGTHS PER TABLE UNLESS NOTED OTHERWISE ON PLANS.
5. WHERE "CLASS A" SPLICE IS CALLED OUT ON PLANS, USE TENSION DEVELOPMENT LENGTHS "Ld" PER TABLE.
6. TOP BARS ARE HORIZONTAL SLAB, BEAM & FOOTING BARS WITH MORE THAN 12 IN. OF CONCRETE CAST BELOW THE BARS AND ALL HORIZONTAL WALL REINFORCEMENT.
7. BOTTOM BARS ARE ALL VERTICAL WALL REINFORCEMENT AND ALL HORIZONTAL SLAB BEAM & FOOTING BARS WITH LESS THAN 12" OF CONCRETE CAST BELOW THE BAR.
8. COVER DESIGNATES CLEAR COVER FROM SPLICED BAR TO FACE OF MEMBER. SPACING DESIGNATES CENTER-TO-CENTER SPACING OF SPLICED BARS.
9. FOR NON-CONTACT LAP SPLICES, ADD THE DISTANCE BETWEEN THE BARS TO THE SPLICE LENGTH IN THE ABOVE TABLE.
10. WHEN BARS OF DIFFERENT SIZES ARE LAP SPLICED, SPLICE LENGTH SHALL BE THE LARGER OF "Ld" OF THE LARGER BAR OR THE "LAP" LENGTH OF THE SMALLER BAR.
11. WHERE #14 OR #18 REBAR IS CALLED OUT ON PLAN, USE TYPE 2 COUPLERS PER GSN.

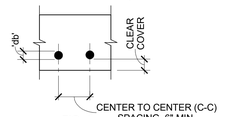


FIG. 1

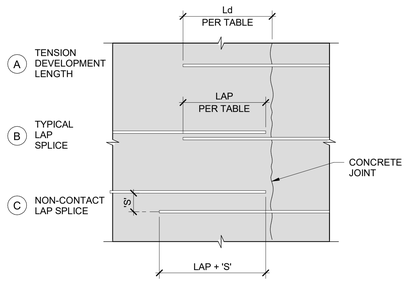
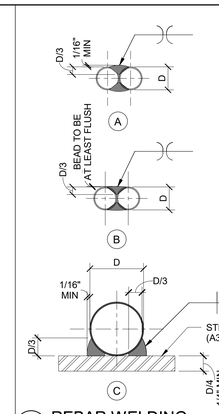


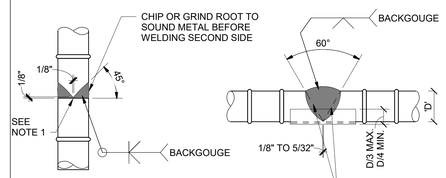
FIG. 2



BAR	MIN. WELD REQUIREMENT FOR LAP WELDING: WELD LENGTH (EA. SIDE)		
	A	B	C
#3	2"	-	4"
#4	2 1/2"	-	5"
#5	3"	-	6"
#6	-	3 1/2"	7"

NOTES:
1. #7 BAR AND LARGER SHALL BE BUTT WELDED.
2. NO WELDING WITHIN 1" OR 2x'd_b' OF BEGINNING OF BAR BEND.
3. SEE G.S.N. FOR ADDITIONAL REQUIREMENTS.

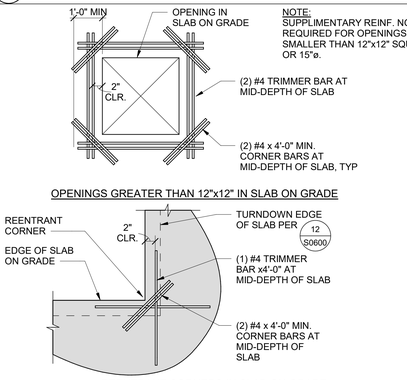
5 REBAR WELDING
NO SCALE



VERTICAL BAR HORIZONTAL BAR

NOTES:
1. A PRE-QUALIFICATION TENSION TEST SHALL BE MADE BY AN APPROVED TESTING LABORATORY ON SAMPLES OF EVERY SIZE BAR BEING WELDED. ALL COSTS INCURRED FOR OBTAINING WELDING APPROVALS WILL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
2. WELDING SPLICES SHOWN ON THIS DETAIL MAY BE SUBSTITUTED WITH TYPE 2 MECHANICAL COUPLERS PER REINFORCING STEEL SECTION OF G.S.N.

10 REBAR BUTT WELDING
NO SCALE

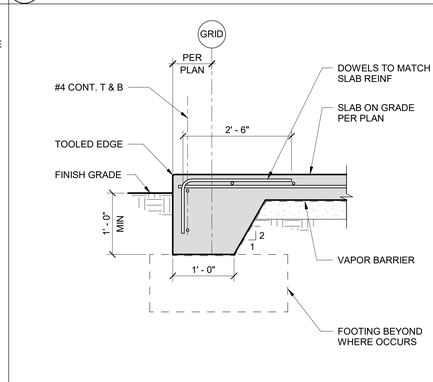


NOTE:
SUPPLIMENTARY REINF. NOT REQUIRED FOR OPENINGS SMALLER THAN 12"x12" SQUARE OR 15"ø.

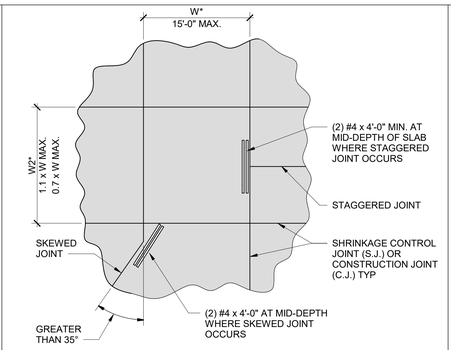
OPENINGS GREATER THAN 12"x12" IN SLAB ON GRADE

REENTRANT CORNERS IN SLAB ON GRADE

11 REINF. AT OPENINGS AND CORNERS
NO SCALE

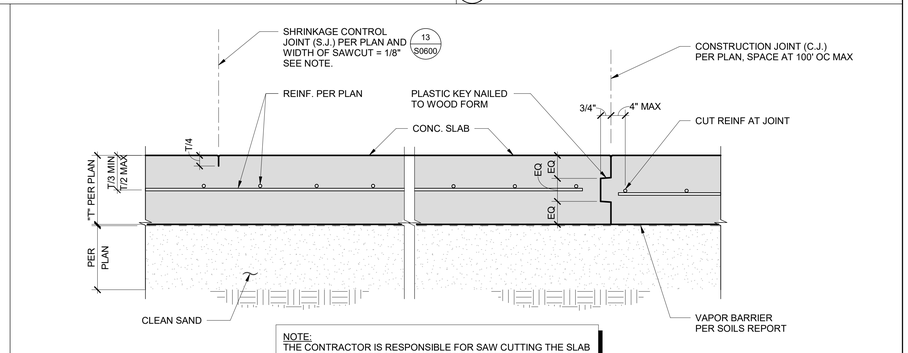


12 EDGE OF SLAB ON GRADE
NO SCALE



NOTES:
1. VERIFY LOCATION OF ALL SLAB JOINTS WITH ARCH.
2. (*) U.N.O. ON PLANS.

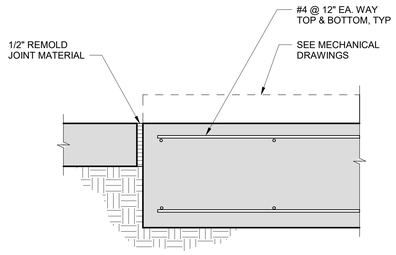
13 CONTROL JOINT LAYOUT
NO SCALE



NOTE:
THE CONTRACTOR IS RESPONSIBLE FOR SAW CUTTING THE SLAB IN A TIMELY MANNER TO PREVENT SHRINKAGE CRACKS. IT IS RECOMMENDED TO SAW CUT AS SOON AS THE SLAB IS WALKABLE AND NOT MORE THAN 12 HOURS AFTER CONCRETE PLACEMENT.

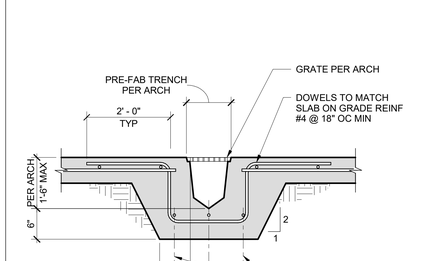
NOTE:
FOR REINFORCING AT OPENINGS AND CORNERS SEE 11 S0600

14 TYPICAL SLAB ON GRADE
NO SCALE



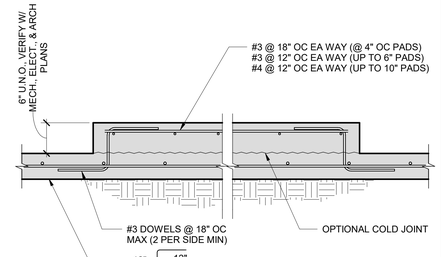
NOTES:
1. EQUIPMENT FOOTING TO EXTEND 1'-0" MINIMUM BEYOND EDGE OF MECHANICAL EQUPMENT ON ALL SIDES.
2. SEE MECHANICAL AND ARCHITECTURAL FOR EQUIPMENT LOCATIONS.
3. PROVIDE ANCHOR BOLTS FOR EQUIPMENT AS REQUIRED BY MANUFACTURER.

16 MECHANICAL EQUIPMENT SUPPORT FOOTING
SCALE: 1" = 1'-0"

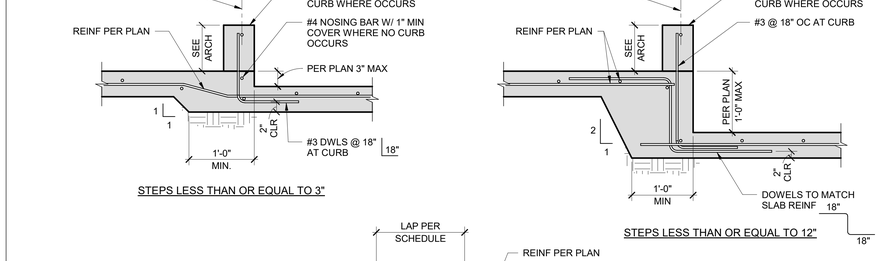


NOTE:
TRENCH DRAINS SHALL NOT BE PLACED IN STRUCTURAL SLABS ABOVE GRADE UNLESS SPECIFICALLY SHOWN IN STRUCTURAL DRAWINGS.

17 TRENCH DRAIN IN SLAB ON GRADE
NO SCALE



18 MECHANICAL PAD ON GRADE
NO SCALE



19 SLAB ON GRADE TRANSITIONS AND STEPS
NO SCALE

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	ISSUE FOR GRADING PERMIT	03 DEC 2020
Rev.	Description	Date
	AGENCY APPROVAL	

FACILITY #: 12372
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ARCHITECT SEAL

CONSULTANT SEAL
REGISTERED PROFESSIONAL ENGINEER ERIC LEHMKUHL No. 53406 Exp. 3/31/22 STRUCTURAL STATE OF CALIFORNIA
12/15/2021

KEY PLAN

Drawing Title:

CONCRETE TYPICAL DETAILS

Issue Date: 01/21/2022
Project No.: 006240.00 Checked by: AP/LS

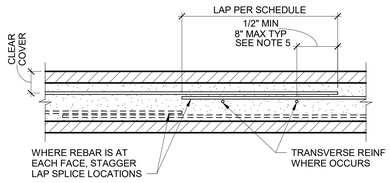
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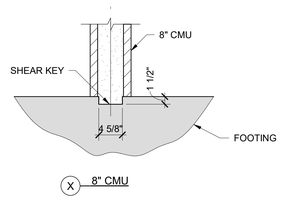
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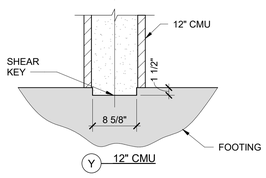
MASONRY REINFORCING BAR DEVELOPMENT & LAP SPLICE LENGTH. (INCHES) FOR CMU STRENGTH f'm = 2000 PSI									
NOMINAL BLOCK SIZE	BAR LOCATION	MINIMUM COVER	TRANSVERSE REBAR (SEE NOTE 5)	REINFORCING BAR SIZE					
				#3	#4	#5	#6	#7	#8
8"	EACH FACE OR STAGGERED	2"	NO	16	22	35	54	63	72
			YES	16	18	23	27	32	72
	CENTERED	3 1/4"	NO	16	16	23	44	61	72
			YES	16	16	23	27	32	51

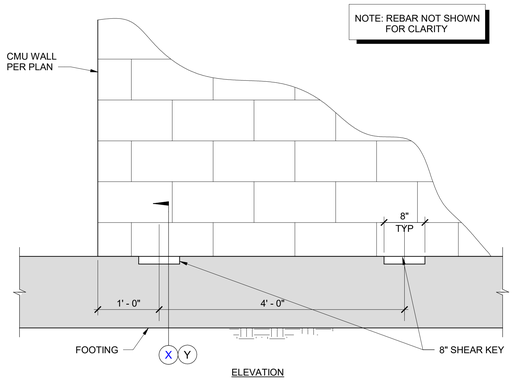
NOTES:
1. COVER ≤ BAR SPACING ASSUMED. COVER IS DISTANCE FROM OUTSIDE FACE OF BLOCK TO EDGE OF BAR.
2. BARS SPLICED BY NON-CONTACT LAP SPLICES SHALL BE SPACED A DISTANCE APART NOT GREATER THAN 1/5 THE REQUIRED LENGTH OF THE LAP SPLICE OR MORE THAN 8".
3. #9 AND LARGER BARS SHALL BE SPLICED BY WELDING OR BY APPROVED MECHANICAL CONNECTORS THAT CAN DEVELOP 125% OF THE SPECIFIED BAR STRENGTH IN TENSION.
4. WHEN ADJACENT LAP SPLICES ARE SEPARATED BY 3" OR LESS, THE REQUIRED LAP LENGTH SHALL BE INCREASED BY 30%.
5. PROVIDE TRANSVERSE REINFORCEMENT AT BOTH ENDS OF LAP SPLICES AS SHOWN IN THE FIGURE BELOW IN ORDER TO USE THE REDUCED LAP SPLICE LENGTH.



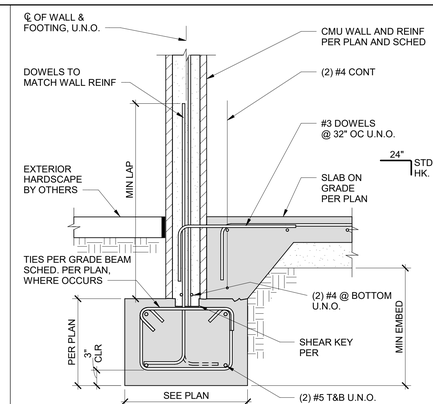
1 TYPICAL REINFORCING LAP SPLICE FOR MASONRY WALLS
NO SCALE



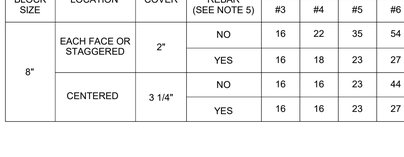




3 TYPICAL SHEAR KEY DETAIL
SCALE: 1" = 1'-0"

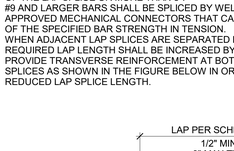


5 CONT. FOOTING AT EXTERIOR CMU WALL
SCALE: 1" = 1'-0"



NOTES:
1. WHEREVER POSSIBLE, PLACE CONDUITS IN UNREINFORCED CELLS.
2. WHEN CONDUITS MUST BE PLACED IN THE SAME CELL AS REBAR, SEE DETAIL ABOVE.
3. CONDUITS SHALL NOT BE RUN HORIZONTALLY IN WALLS.

11 TYPICAL VERTICAL CONDUITS IN CMU WALLS
NO SCALE



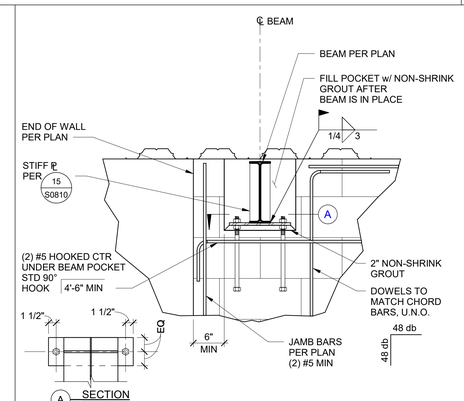
PLAN SECTION

12 TYPICAL CMU WALL END
NO SCALE

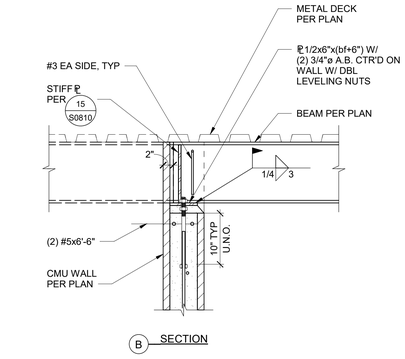
NOTES:
1. HORIZONTAL REINFORCING NOT SHOWN FOR CLARITY. HORIZONTAL CONDITION IS SIMILAR.
2. SECURE ALL VERTICAL BARS W/ BAR POSITIONERS PER G.S.N.

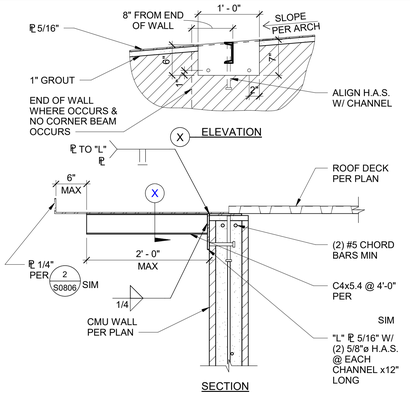
PLAN VIEWS

13 TYPICAL REBAR LAYOUT IN CMU
NO SCALE

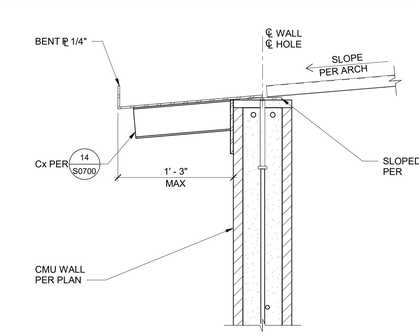


9 TYPICAL BEAM BEARING WALL POCKET AT ROOF
SCALE: 1" = 1'-0"

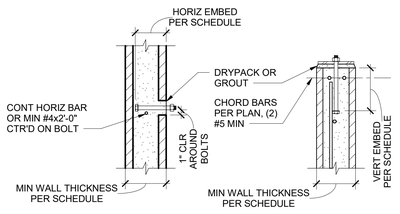




14 DECK W/ OUTRIGGER OVER CMU WALL
SCALE: 1" = 1'-0"

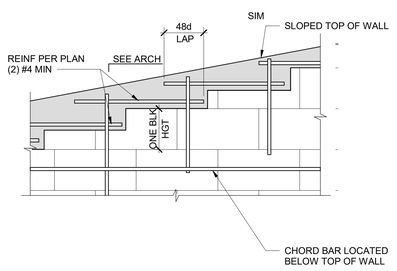


15 CANTILEVER DECK ATTACHMENT
SCALE: 1 1/2" = 1'-0"

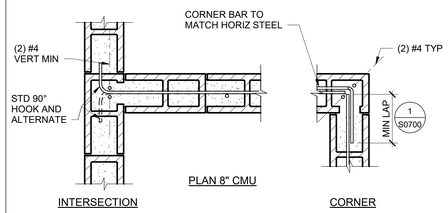


MINIMUM EMBEDMENT LENGTH			
BOLT SIZE Ø	HORIZ EMBED	VERT EMBED	MINIMUM WALL THICKNESS
1/2"	4"	6"	6"
5/8"	5"	7"	8"
3/4"	6"	8"	8"
7/8"	7"	9"	10"
1"	8"	10"	12"

16 TYPICAL BOLT EMBEDMENT IN CMU WALLS
NO SCALE



17 SLOPED CHORD REINFORCING AT TOP OF WALL
NO SCALE



18 TYP CMU WALL INTERSECTIONS AND CORNERS
NO SCALE

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Rev.	Description	Date
	ISSUE FOR PLAN REVIEW	21 JAN 2022
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	AGENCY APPROVAL	

FACILITY #: 12372
OSHPD #:

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CONSULTANT SEAL

REGISTERED PROFESSIONAL ENGINEER
ERIC LEHMKUHL
No. 52446
Exp. 4/31/22
STRUCTURAL
STATE OF CALIFORNIA

12/15/2021

KEY PLAN

Drawing Title:

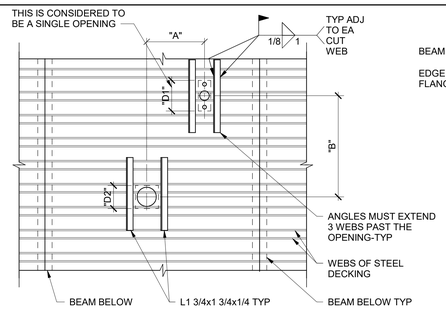
MASONRY WALL TYPICAL DETAILS

Issue Date: 01/21/2022
Project No.: 006240.00 Checked by: AP/LS

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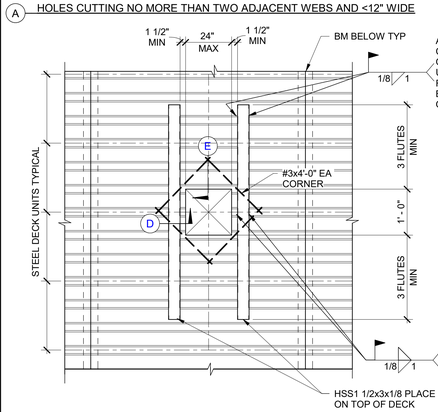
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NOTES:
1. TYPICALLY, NO REINFORCING IS REQUIRED FOR INDIVIDUAL HOLES 6" OR LESS IN DIAMETER, CUTTING NO MORE THAN 1 WEB, AND NOT LOCATED LESS THAN DIMENSIONS "A" AND "B" FROM OTHER OPENINGS AS DEFINED IN NOTE 6.
2. TWO ADJACENT WEB OPENING IS DEFINED AS 6" MAX. HOLE AT 1 1/2" DECK AND 12" MAX. HOLE AT 2" & 3" DECK. TYP.
3. ANGLES SHALL BE PLACED ON TOP OF DECK. IF ANGLES ARE LOCATED BELOW DECK,WELD ANGLE AS SHOWN ABOVE TO EACH BOTTOM FLUTE.
4. IF DIMENSION "A" IS GREATER THAN 4xD1, 4xD2, OR 32", WHICHEVER IS LARGER, THEN THERE IS NO RESTRICTION ON DIMENSION "B"
5. IF DIMENSION "B" IS GREATER THAN 4xD1, 4xD2, OR 32", WHICHEVER IS LARGER, THEN THERE IS NO RESTRICTION ON DIMENSION "A"
6. IF DIMENSION "A" AND "B" ARE LESS THAN 4xD1, 4xD2, OR 32", WHICHEVER IS LARGER, THE OPENING GROUP WILL BE CONSIDERED AS A SINGLE HOLE, AND MUST BE REINFORCED AS REQUIRED FOR THE LARGER COMBINED OPENING.

A HOLES CUTTING NO MORE THAN TWO ADJACENT WEBS AND <12" WIDE

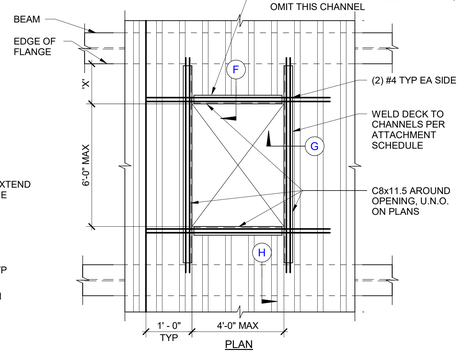


NOTES:
1. IF THE OPENING OR GROUP OF OPENINGS OCCUR IN ONE DECKING UNIT. THE OPENING OR OPENING GROUP MAY BE CUT PRIOR TO POURING OF CONCRETE. CONTRACTOR TO PROVIDE EDGE CLOSURE AS REQ'D.
2. IF, AS SHOWN ON DETAIL ABOVE. THE OPENING OR OPENING GROUP CUT THROUGH TWO DECKING UNITS. THE DECKING SHALL NOT BE CUT UNTIL CONCRETE HAS BEEN PLACED AND CURED. AT THE TIME OF POURING. SUITABLE SLEEVES OR POUR-STOPS SHALL BE PLACED AROUND THE OPENING.
3. ADD REBAR AT CORNERS OF OPENING AS SHOWN.
4. WHEN THE MAXIMUM DIMENSION OF AN OPENING OR OPENING GROUP EXCEEDS 24". SEE DETAIL (C)

B HOLES CUTTING NO MORE THAN TWO ADJACENT WEBS, RECTANGULAR OR SQUARE AND <24" WIDE

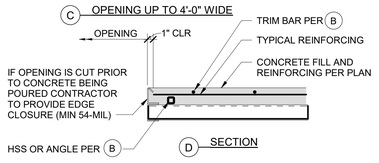
NOTES:
1. REFER TO ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS. OPENINGS MAY OR MAY NOT BE SHOWN ON THE STRUCTURAL DRAWINGS. THIS DETAIL APPLIES WHERE FRAMING AROUND OPENINGS IS NOT SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS.
2. WHEREVER POSSIBLE SMALL OPENINGS PER DETAIL A SHOULD BE BLOCKED OUT AND THE DECK LEFT INTACT PRIOR TO POURING CONCRETE. WITH THE CONCRETE CUT OUT AFTER CURING. SHOULD THE CONTRACTOR ELECT TO CUT OPENINGS PRIOR TO POURING CONCRETE.

11 TYPICAL OPENINGS IN COMPOSITE METAL DECK
NO SCALE

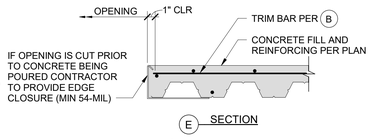


PLAN

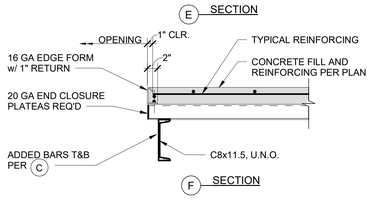
C OPENING UP TO 4'-0" WIDE



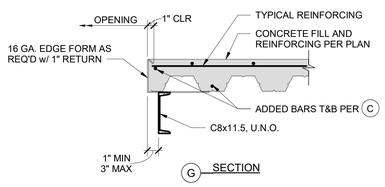
D SECTION



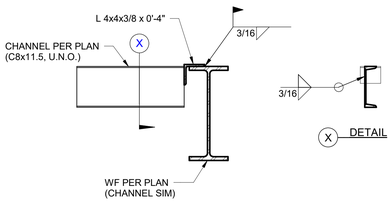
E SECTION



F SECTION

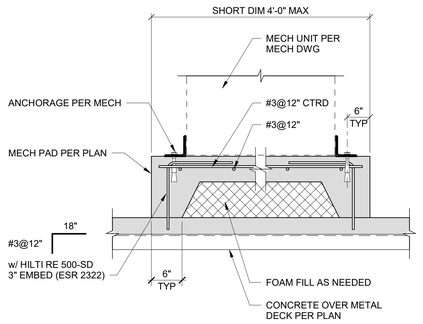


G SECTION

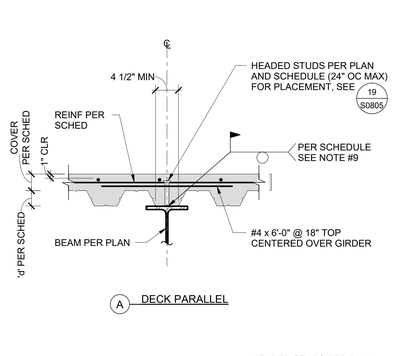


H MEMBER TO MEMBER CONNECTION AROUND OPENING

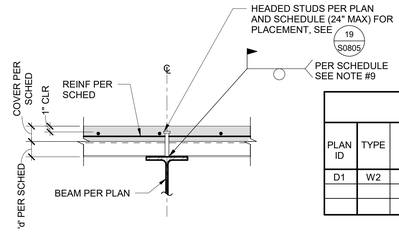
16 TYPICAL MECHANICAL PAD AT COMD
SCALE: 1" = 1'-0"



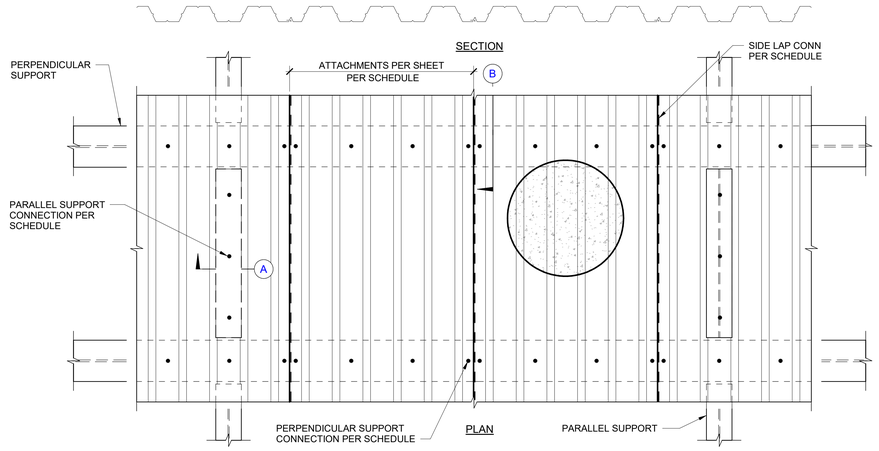
17 METAL DECK SUPPORT AT COLUMN
NO SCALE



A DECK PARALLEL



B DECK PERPENDICULAR

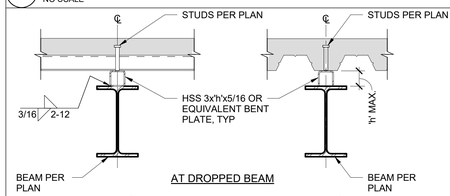


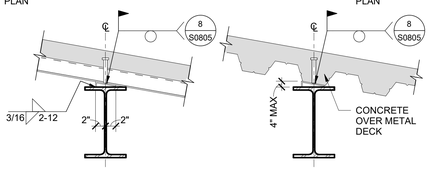
COMPOSITE METAL DECK SCHEDULE

PLAN ID	TYPE	d	GAGE	REINFORCING	CONCRETE		HEADED STUD		WELDING ATTACHMENT			MAXIMUM UNSHORED SPAN		
					COVER 't'	TOTAL	SIZE	LENGTH	DECK PERPENDICULAR TO SUPPORTS	DECK PARALLEL TO SUPPORTS	SIDE LAPS	SINGLE SPAN	DOUBLE SPAN	TRIPLE SPAN
D1	W2	2"	18	#3 @ 18" EA WAY	2 1/2"	4 1/2"	3/4"	3 1/2"	4 PWS/SHEET	PWS AT 12"	VSC AT 24"	10'-6"	11'-6"	12'-0"

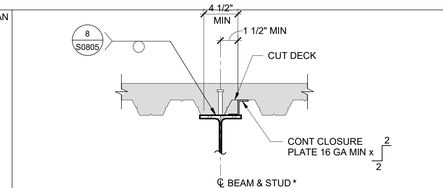
NOTES:
1. WHERE POSSIBLE, DECK LAYOUT SHALL PROVIDE SHEETS OF SUFFICIENT LENGTH TO CONTINUOUSLY SPAN AT LEAST THREE SPANS. ENDS SHALL TERMINATE OVER A SUPPORT PERPENDICULAR TO THE DECK SPAN, EXCEPT AT OPENINGS OR BUILDING EDGES WHERE EDGE OF DECK IS PER PLAN.
2. WHEN DECK SPANS ARE LESS THAN WHAT IS SCHEDULED DECK DOES NOT REQUIRE VERTICAL SHORING DURING CONCRETE FILL PLACEMENT. FOR OTHER LAYOUTS INCLUDING CANTILEVERED EDGES, SHORE DECK AS REQUIRED BY MANUFACTURER.
3. DECK SHALL HAVE A MINIMUM OF 2" BEARING AT ALL SUPPORTING MEMBERS PERPENDICULAR TO DECK SPAN AND 1 1/2" AT ALL MEMBERS PARALLEL TO DECK SPAN.
4. FOR DECKS WITH VARYING SPAN LENGTHS THE SMALLER SPAN SHALL BE AT LEAST 60% OF THE LONGER SPAN IN ORDER TO BE CLASSIFIED AS A MULTIPLE SPANNING DECK.
5. WHERE TWO ADJACENT DECK SHEETS ARE SUPPORTED BY ONE FRAMING MEMBER, EACH SHEET SHALL INDIVIDUALLY SATISFY THE REQUIREMENTS OF NOTE 3 AND THE ATTACHMENT SCHEDULE.
6. LIGHTS, DUCTS, AND OTHER ITEMS, EXCEPT ACOUSTIC TILE CEILING, SHALL NOT BE SUPPORTED FROM COMPOSITE METAL DECK UNLESS APPROVED BY STRUCTURAL ENGINEER.ANCHORAGE OF APPROVED ITEMS MUST CONFORM WITH DECK MANUFACTURER'S RECOMMENDATIONS.
7. DO NOT PLACE CONDUITS OR PIPES IN CONCRETE FILL OVER METAL DECK.
8. METAL DECK SHALL BE FASTENED TO STEEL SUPPORTS WITH THE SCHEDULED NUMBER OF 3/4"ø PUDDLE WELDS (PWS) (1/2"ø EFFECTIVE FUSION AREA).
9. HEADED STUDS WELDED THROUGH THE DECK WITH A MINIMUM CLEARANCE OF 1 INCH FROM THE EDGE OF THE DECK TO THE STUD CENTERLINE MAY BE SUBSTITUTED ONE FOR ONE WITH DECK PUDDLE WELDS.
10. MAXIMUM UNSHORED DECK SPANS IN SCHEDULE ARE BASED ON VERCO PRODUCTS WHICH ASSUME THE WET WEIGHT OF THE CONCRETE, 20PSF LIVE LOAD OR 150 LB CONCENTRATED CONSTRUCTION LIVE LOAD. CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO DISTRIBUTE WET CONCRETE AND CONSTRUCTION LOADING TO MEET THESE REQUIREMENTS.

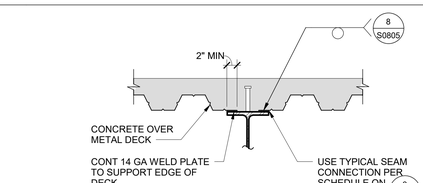
8 COMPOSITE METAL DECK SCHEDULE
NO SCALE

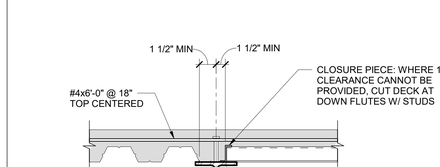




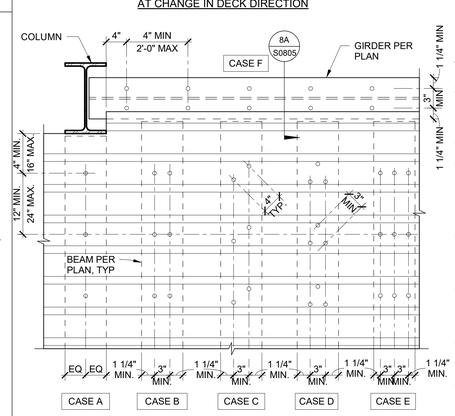
13 SLOPED/HIGH COMPOSITE METAL DECK TO BEAM
NO SCALE







* IF BEAM FLANGE IS 5/16" OR THICKER STUD ℄ MAY BE OFFSET UP TO 1" FROM BEAM ℄



NOTES:
1. FOR DECK SUPPORT AT COLUMNS NOT SHOWN HERE, SEE 17 S0805
2. THE TERM "AVAILABLE LENGTH OF BEAM" AS USED SHALL BE DEFINED AS THAT LENGTH OF BEAM OR GIRDER WHERE STUDS WILL BE COVERED WITH CONCRETE FLOORING.

CASE A: SINGLE STUD ROWS: TYPICAL COMPOSITE BEAM, 4" MIN. BEAM FLANGE WIDTH.

CASE B: DOUBLE STUD ROWS: TWO STUDS PER FLUTE SPACED AS SHOWN. 5 1/2" MIN. BEAM FLANGE WIDTH. ADD SECOND STUD IN FLUTE WHEN REQUIRED NUMBER OF STUDS EXCEEDS NUMBER OF AVAILABLE LOW FLUTES. SECOND STUDS SHALL BE SPACED EVENLY ALONG AVAILABLE LENGTH OF BEAM.

CASE C: DOUBLE STUD ROWS: TWO STUDS PER FLUTE STAGGERED AS SHOWN. USE THIS SCHEME ONLY WHEN NUMBER OF REQUIRED STUDS PROHIBITS CASE 'A' AND BEAM FLANGE WIDTH IS LESS THAN 5 1/2".

CASE D: TRIPLE STUD ROWS: THREE STUDS PER FLUTE STAGGERED AS SHOWN. USE THIS SCHEME ONLY WHEN NUMBER OF REQUIRED STUDS PROHIBIT CASE 'B' AND BEAM FLANGE WIDTH IS LESS THAN 8 1/2".

CASE E: TRIPLE STUD ROWS: THREE STUDS PER FLUTE SPACED AS SHOWN MINIMUM 8 1/2" BEAM FLANGE WIDTH. USE THIS SCHEME ONLY WHEN NUMBER OF REQUIRED STUDS PROHIBITS CASE 'B'.

CASE F: GIRDERS USE SINGLE ROW OF UNIFORMLY SPACED STUDS TYPICALLY. USE DOUBLE ROW OF STUDS ONLY WHEN REQUIRED AT GIRDER ENDS. INSTALL FIRST STUD 4" FROM COLUMN FLANGE. WHERE GIRDER FLANGE WIDTH IS LESS THAN 5 1/2", STAGGER STUDS SIMILAR TO CASE 'C' ABOVE.

19 HEADED ANCHOR STUD (H.A.S.) PLACEMENT DETAIL
NO SCALE

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FACILITY #: 12372
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CONSULTANT SEAL
ERIC LEHMKUHL No. S2446 Exp. 3/31/22 REGISTERED PROFESSIONAL ENGINEER STRUCTURAL STATE OF CALIFORNIA
12/15/2021

KEY PLAN

Drawing Title:

COMPOSITE METAL DECK DETAILS

Issue Date: 01/21/2022
Project No.: 006240.00 Checked by: AP/LS

S0805

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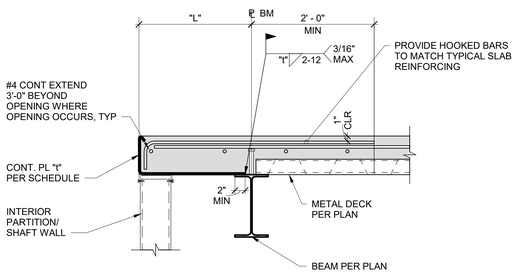
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NOTES:
1. BEAM SHALL BE LOCATED 1'-0" FROM EDGE OF DECK UNLESS NOTED OTHERWISE ON PLAN
2. FOR "L" > 1'-6" REFER TO DETAIL 4/S0806
3. EDGE FORM PLATES THINNER THAN 3/16" MAY BE INCREASED TO 3/16" AT CONTRACTOR'S OPTION
4. WHERE COLD-FORMED EDGE OF DECK IS USED PROVIDE 1/2" RETURN LIP INTO CONCRETE AS SHOWN

EDGE FORM THICKNESS AND FILLET WELD SIZE "t" SCHEDULE							
SLAB THICKNESS	SLAB OVERHANG "L"						
	≤6"	≤8"	≤10"	≤12"	≤14"	≤16"	≤18"
4 1/2" (LWT)	16 GA	14 GA	10 GA	3/16"	3/16"	1/4"	5/16"



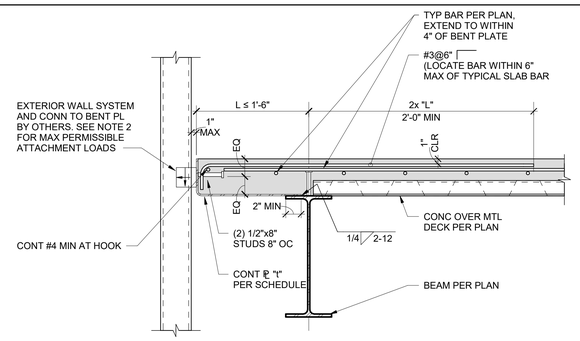
2 TYPICAL EDGE OF COMPOSITE DECK AT INTERIOR OPENINGS
NO SCALE

NOTES:
1. CONNECTION ONLY TO BE USED FOR SLAB OVERHANG "L" ≤ 1'-6"
2. MAX PERMISSIBLE UNFACTORED LOADS FROM EXTERIOR ENCLOSURE SHALL BE AS FOLLOWS:

   METAL STUD FRAMING @ 16"O.C
   DEAD LOAD = 400LBS
   WIND AND SEISMIC = 590LBS, 130LBS
3. FOR 1'-6"< "L" ≤ 3'-0" SEE 9/S0806

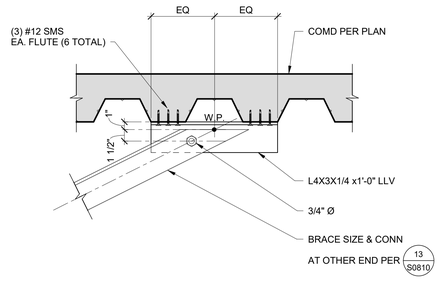
EDGE FROM THICKNESS "t" SCHEDULE						
SLAB THICKNESS	SLAB OVERHANG "L"					
	≤12"	≤14"	≤16"	≤18"	-	-
4 1/2" (LWT)	3/16"	3/16"	1/4"	5/16"	-	-

*USE DETAIL 9/S0806



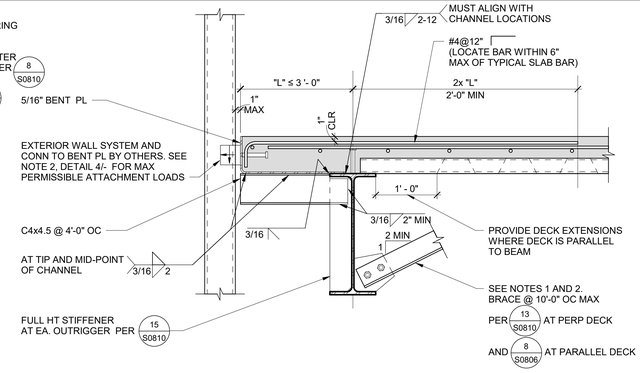
4 EXTERIOR EDGE OF COMPOSITE DECK L ≤ 1'-6"
NO SCALE

NOTES:
1. THIS CONNECTION SHALL NOT BE USED FOR BRACING OF SFRS MEMBERS
2. BRACE/CONN TO BE INSTALLED PRIOR TO DECK POUR

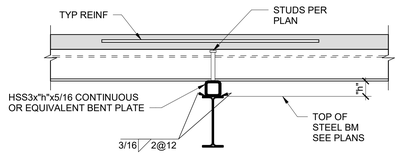


8 PERIMETER BEAM BRACE CONNECTION
SCALE: 1 1/2" = 1'-0"

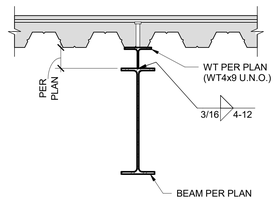
NOTES:
1. BRACES SHALL BE INSTALLED PRIOR TO POURING CONCRETE DECKS
2. BRACES MAY BE OMITTED WHERE PERPENDICULAR BEAMS FRAME INTO PERIMETER BEAM AT 10'-0" OC MAX WITH CONNECTIONS PER 8/S0810
3. FOR ALL OTHER INFO NOT SHOWN SEE 4/S0806



9 EXTERIOR EDGE OF COMPOSITE DECK 1'-6" < L ≤ 3'-0"
NO SCALE



16 DROPPED BEAM TO COMPOSITE DECK
NO SCALE



17 WT ON BEAM
NO SCALE

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Rev.	Description	Date
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AGENCY APPROVAL

FACILITY #: 12372
OSHPD #:

ARCHITECT SEAL

CONSULTANT SEAL



12/15/2021

KEY PLAN

Drawing Title:

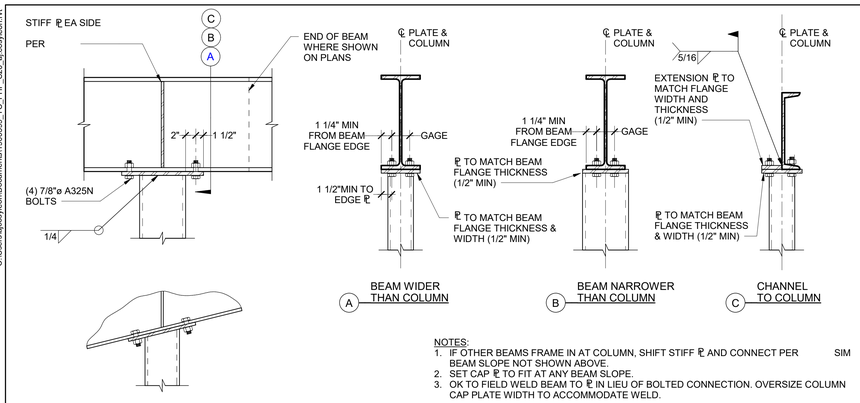
COMPOSITE DECK STEP AND EDGE DETAILS

Issue Date: 01/21/2022
Project No.: 006240.00 Checked by: AP/LS

S0806

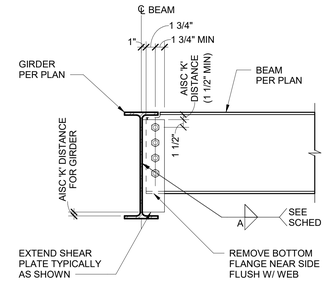
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NOTES:
1. IF OTHER BEAMS FRAME IN AT COLUMN, SHIFT STIFF ℄ AND CONNECT PER BEAM SLOPE NOT SHOWN ABOVE. SIM
2. SET CAP ℄ TO FIT AT ANY BEAM SLOPE.
3. OK TO FIELD WELD BEAM TO ℄ IN LIEU OF BOLTED CONNECTION. OVERSIZE COLUMN CAP PLATE WIDTH TO ACCOMMODATE WELD.

1 BEAM ON TOP OF COLUMN
NO SCALE

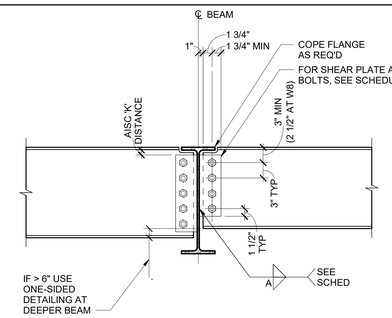


AT ONE-SIDED CONNECTIONS

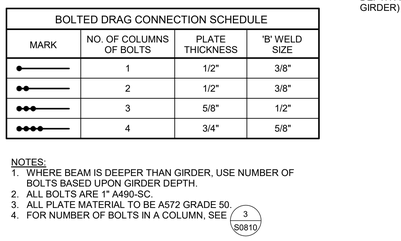
3 TYPICAL BOLTED BEAM CONNECTION DETAIL
NO SCALE

STANDARD BOLTED CONNECTION SCHEDULE			
BEAM SIZE	NO. & SIZE OF BOLTS REQUIRED	PLATE THICKNESS	'A' WELD SIZE
W8	(2) 7/8"ø	5/16"	1/4"
W10	(2) 7/8"ø	5/16"	1/4"
W12	(3) 7/8"ø	5/16"	1/4"
W14	(3) 7/8"ø	5/16"	1/4"
W16	(4) 7/8"ø	3/8"	5/16"
W18	(4) 7/8"ø	3/8"	5/16"
W21	(5) 7/8"ø	3/8"	5/16"
W24	(6) 7/8"ø	3/8"	5/16"
W27	(7) 7/8"ø	3/8"	5/16"
W30	(8) 7/8"ø	3/8"	5/16"

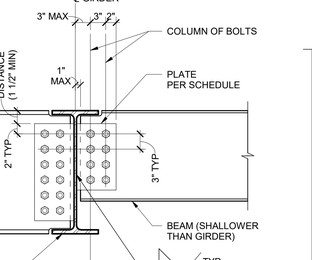
CONNECTION NOTES:
1. ALL BOLTS TO BE ASTM A325N AND FULLY PRETENSIONED PER AISC STANDARDS EXCEPT AS DESCRIBED IN NOTE 2.
2. BOLTS IN BEAM TO BEAM CONNECTIONS MAY BE TIGHTENED TO AISC "SNUG TIGHT" CONDITION UPON APPROVAL OF ENGINEER AND OWNER.
3. CONNECTION PLATES TO HAVE AISC STANDARD ROUND HOLES UNLESS NOTED OTHERWISE.
4. ALL CONNECTION PLATE MATERIAL TO BE A36, U.N.O.
5. ALL BEAM MATERIAL TO BE GRADE 50.



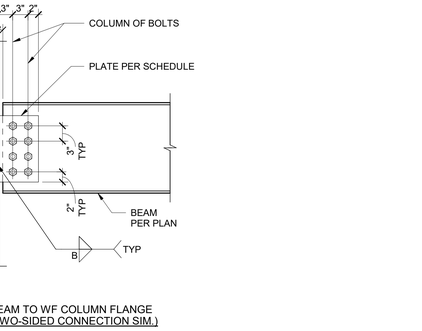
AT TWO-SIDED CONNECTIONS



6 CHANNEL TO BEAM DETAIL AT OPENINGS
NO SCALE

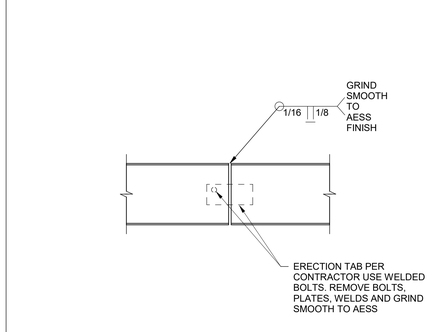


7 W6 OR C6 CONNECTION
SCALE: 1 1/2" = 1'-0"



NOTE:
FOR INFORMATION NOT SHOWN OR NOTED, SEE 3/S0810.

8 FULL DEPTH CONNECTION OF BEAM TO GIRDER
NO SCALE

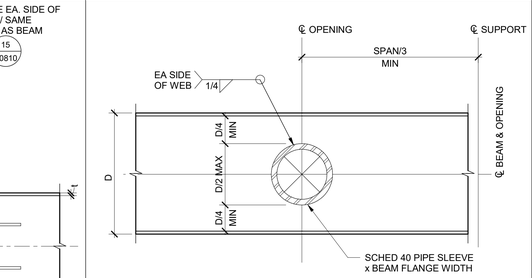


NOTES:
1. SEE 3/S0810 FOR 'A' AND ADDITIONAL INFO.
2. SEE APPLICABLE BEAM CONNECTION DETAIL FOR INFORMATION NOT SPECIFIED.
3. WHERE NOTED, COPE FLANGE AS REQUIRED.
4. WHERE NOTED DIMENSION MAY BE INCREASED AS NEEDED (6" MAX) TO PROVIDE BOLT CLEARANCE BY WELDING SHEAR PLATE TO TOP AND BOTTOM FLANGE.

9 SKEWED BEAM CONNECTION
NO SCALE

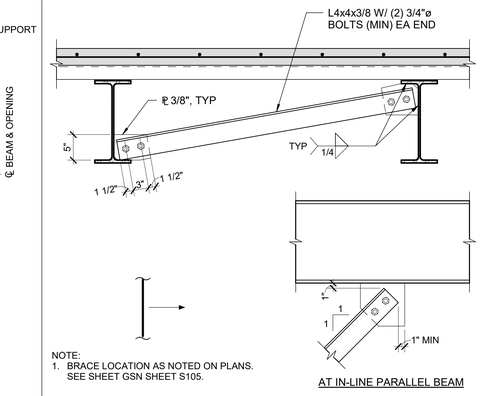
NOTES:
1. PENETRATIONS IN STEEL BEAMS ARE ONLY ALLOWED WHERE SPECIFICALLY DETAILED ON THESE PLANS OR APPROVED BY THE ENGINEER OF RECORD.
2. FLANGE AND STIFFENER NOT REQUIRED FOR 3" SQUARE HOLES MAX.

11 BEAM WEB DUCT OPENING DETAIL
NO SCALE



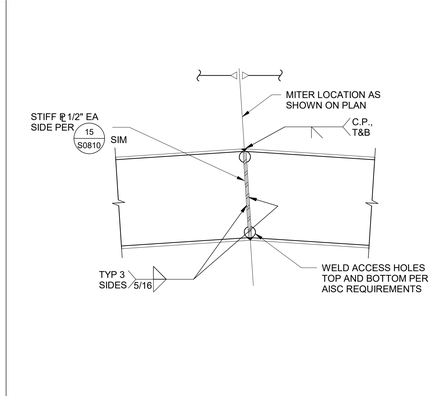
NOTES:
1. PENETRATIONS IN STEEL BEAMS ARE ONLY ALLOWED WHERE SPECIFICALLY DETAILED ON THESE PLANS OR APPROVED BY THE ENGINEER OF RECORD.
2. WHERE ROUND OPENING DIAMETER IS D/6 OR LESS, REINFORCING SHOWN IS NOT REQUIRED.

12 BEAM WEB PIPE OPENING DETAIL
NO SCALE

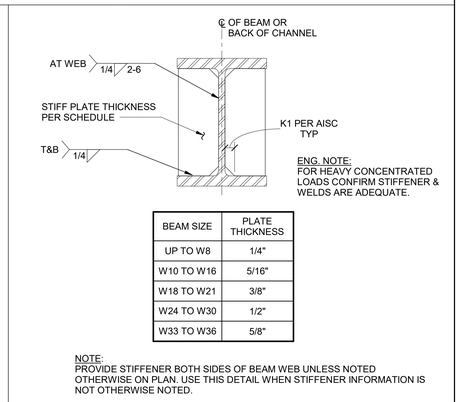


NOTE:
1. BRACE LOCATION AS NOTED ON PLANS. SEE SHEET GSN SHEET S105.

13 LATERAL BRACE DETAIL
NO SCALE



14 MITERED BEAM DETAIL
NO SCALE



ENG. NOTE:
FOR HEAVY CONCENTRATED LOADS CONFIRM STIFFENER & WELDS ARE ADEQUATE.

BEAM SIZE	PLATE THICKNESS
UP TO W8	1/4"
W10 TO W16	5/16"
W18 TO W21	3/8"
W24 TO W30	1/2"
W33 TO W36	5/8"

NOTE:
PROVIDE STIFFENER BOTH SIDES OF BEAM WEB UNLESS NOTED OTHERWISE ON PLAN. USE THIS DETAIL WHEN STIFFENER INFORMATION IS NOT OTHERWISE NOTED.

15 TYPICAL STIFFENER PLATE DETAIL
NO SCALE

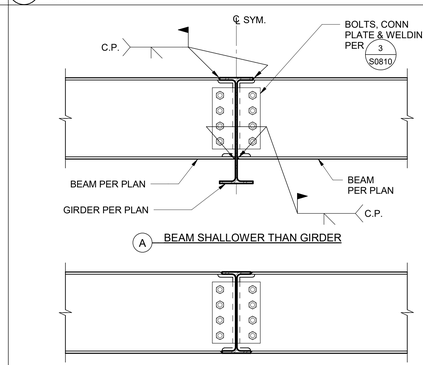
BOLTED DRAG CONNECTION SCHEDULE			
MARK	NO. OF COLUMNS OF BOLTS	PLATE THICKNESS	'B' WELD SIZE
●—	1	1/2"	3/8"
●●	2	1/2"	3/8"
●●●	3	5/8"	1/2"
●●●●	4	3/4"	5/8"

NOTES:
1. WHERE BEAM IS DEEPER THAN GIRDER, USE NUMBER OF BOLTS BASED UPON GIRDER DEPTH.
2. ALL BOLTS ARE 1" A490-SC.
3. ALL PLATE MATERIAL TO BE A572 GRADE 50.
4. FOR NUMBER OF BOLTS IN A COLUMN, SEE 3/S0810

16 BOLTED DRAG CONNECTION
NO SCALE

SFRS

19 CHANNEL SPLICE
SCALE: 1" = 1'-0"



20 BEAM TO GIRDER MOMENT CONNECTION
NO SCALE

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OSHPD #:

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CONSULTANT SEAL

REGISTERED PROFESSIONAL ENGINEER
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No. S2446
Exp. 3/31/22
STRUCTURAL
STATE OF CALIFORNIA

12/15/2021

KEY PLAN

Drawing Title:

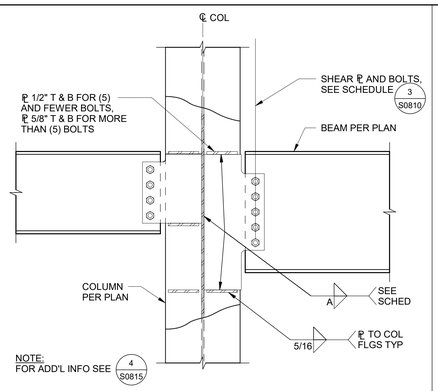
STEEL BEAM DETAILS

Issue Date: 01/21/2022
Project No.: 006240.00 Checked by: AP/LS

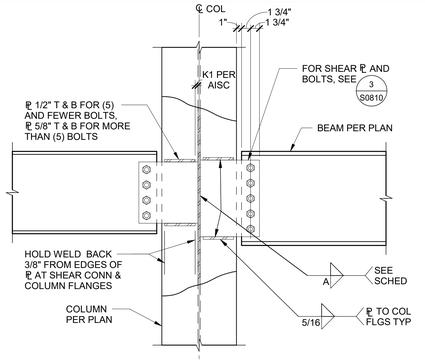
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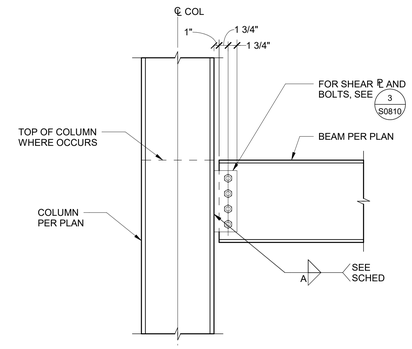
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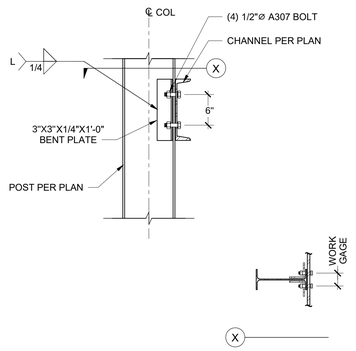
3 BEAM TO COLUMN WEB AT PERP. MOMENT CONN.
NO SCALE



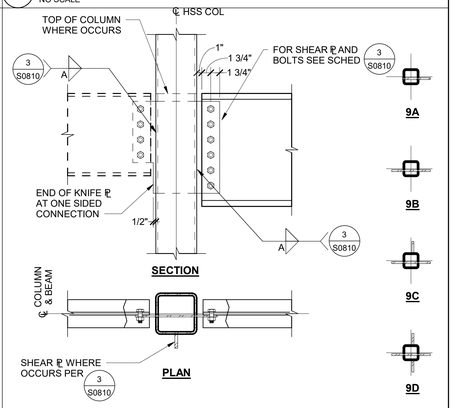
4 WF BEAM TO WF COLUMN WEB
NO SCALE



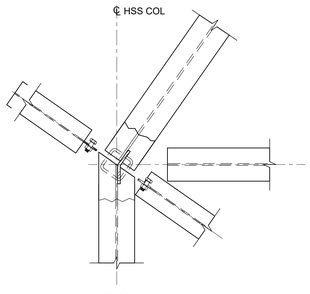
5 WF BEAM TO WF COLUMN FLANGE
NO SCALE



9 CHANNEL TO WF COLUMN FLANGE
SCALE: 1" = 1'-0"



10 WF BEAM TO HSS COLUMN
NO SCALE



15 WF BEAM TO HSS COLUMN
SCALE: 1" = 1'-0"

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12/15/2021

KEY PLAN

Drawing Title:

STEEL COLUMN DETAILS

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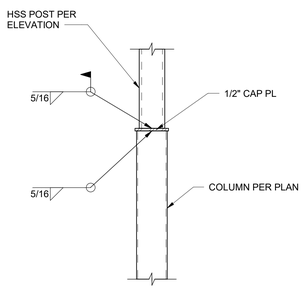
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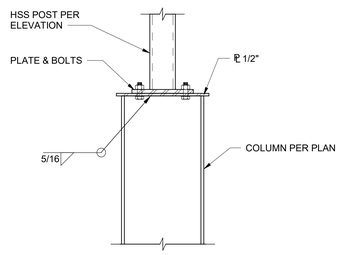
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NOTE:
IN-FRAMING BEAMS NOT
SHOWN FOR CLARITY

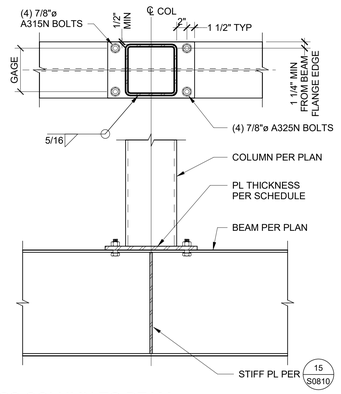


17 POST TO COLUMN CONNECTION
SCALE: 1" = 1'-0"

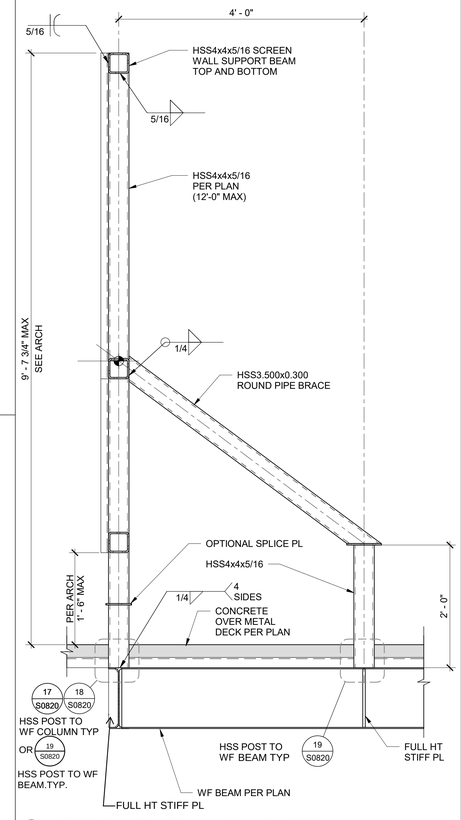
NOTE:
IN-FRAMING BEAMS NOT
SHOWN FOR CLARITY



18 POST TO COLUMN CONNECTION
SCALE: 1" = 1'-0"



19 HSS COLUMN TO BEAM
NO SCALE



20 SECTION AT MECHANICAL SCREEN WALL
SCALE: 1" = 1'-0"

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Drawing Title:

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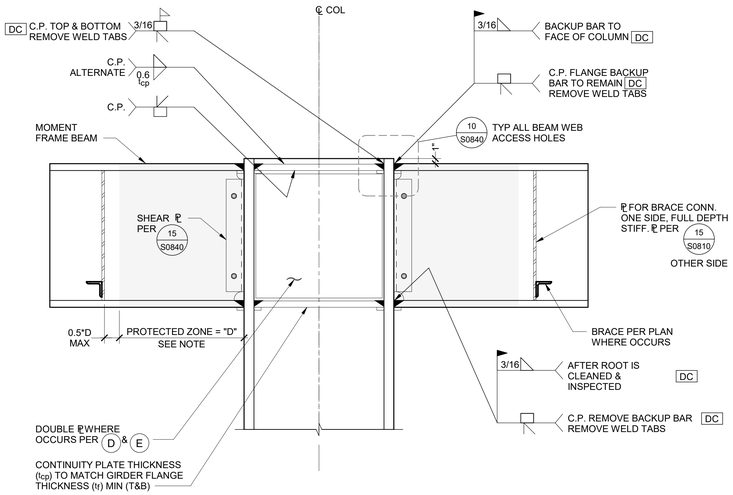
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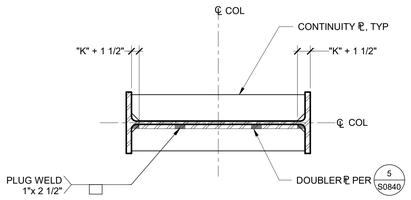


A TYPICAL MOMENT FRAME JOINT ELEVATION

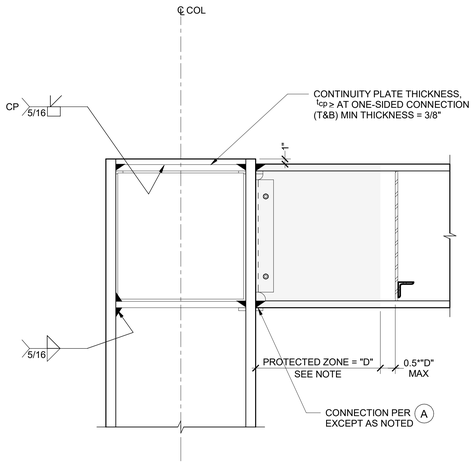
PROJECTED ZONE NOTES:

THIS PORTION OF BEAM IS "PROTECTED". SPECIAL CARE SHALL BE TAKEN TO COMPLY WITH THE FOLLOWING REQUIREMENTS:

1. WITHIN THE PROTECTED ZONE, DISCONTINUITIES CREATED BY FABRICATION OR ERECTION OPERATIONS, SUCH AS TACK WELDS, ERECTION AIDS, AIR-ARC GOUGING AND THERMAL CUTTING SHALL BE REPAIRED AS REQUIRED BY THE ENGINEER OF RECORD
2. WELDED SHEAR STUDS AND DECKING ATTACHMENTS THAT PENETRATE THE BEAM FLANGE SHALL NOT BE PLACED ON BEAM FLANGES WITHIN THE PROTECTED ZONE. DECKING ARC SPOT WELDS AS REQUIRED TO SECURE DECKING SHALL BE PERMITTED
3. WELDED BOLTED, SCREWED OR SHOT-IN ATTACHMENTS, FOR PERIMETER EDGE ANGLES, EXTERIOR FACADES, PARTITIONS, DUCT WORK, PIPING OR OTHER CONSTRUCTION SHALL NOT BE PLACED WITHIN THE PROTECTED ZONE.



PLAN

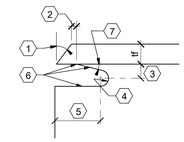


F ELEVATION AT ONE-SIDED CONNECTION

NOTE:
SEE 16 S0840 FOR MORE INFO.

ALTERNATE DOUBLER PLATE SCHEDULE		
MARK	DOUBLER PLATE	PLUG WELDS
1	(1) 1/2" PLATE	NOT REQUIRED
2	(1) 1" PLATE	NOT REQUIRED
3	(1) 1 1/2" PLATE	NOT REQUIRED
4	NO DOUBLER ℄	NOT REQUIRED

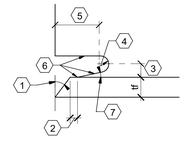
5 DOUBLER PLATE SCHEDULE
NO SCALE



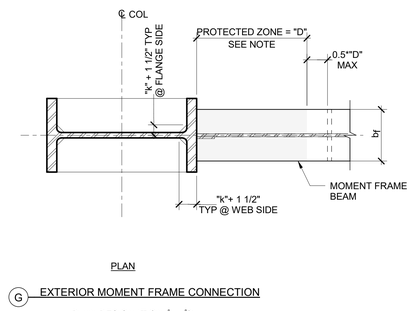
NOTES:

1. BEVEL AS REQUIRED BY AWS D1.1. FOR SELECTED GROOVE WELD PROCEDURE
2. LARGER OF tf OR 1/2" (PLUS 1/2 tf OR MINUS 1/4 tf)
3. 3/4 tf TO tf, 3/4" MINIMUM (+1/4" OR MINUS 0)
4. 3/8" MINIMUM RADIUS (PLUS NOT LIMITED, OR MINUS 0)
5. 3tf (±1/2")
6. SEE AWS D1.8 SECTION 6.10.2 FOR FABRICATION DETAILS INCLUDING CUTTING METHODS AND SMOOTHNESS REQUIREMENTS.
7. TOLERANCE SHALL NOT ACCUMULATE TO EXTENT THAT THE ANGLE OF THE ACCES HOLE CUT TO THE FLANGE SURFACE EXCEEDS 25 DEGREES

REF: AWS D1.8 FIGURE 6.2



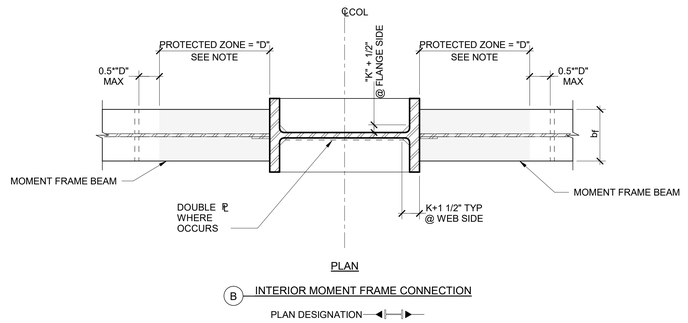
10 WELD ACCESS HOLE DETAIL
NO SCALE



PLAN

G EXTERIOR MOMENT FRAME CONNECTION

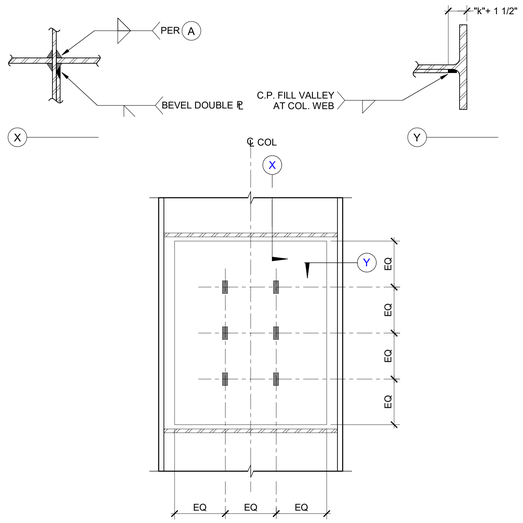
PLAN DESIGNATION



PLAN

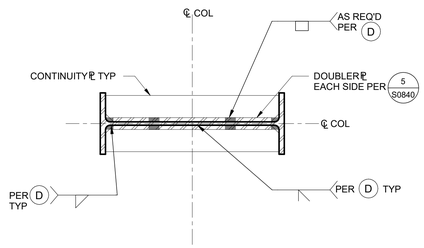
B INTERIOR MOMENT FRAME CONNECTION

PLAN DESIGNATION



ELEVATION

D DOUBLER PLATE-ONE SIDE

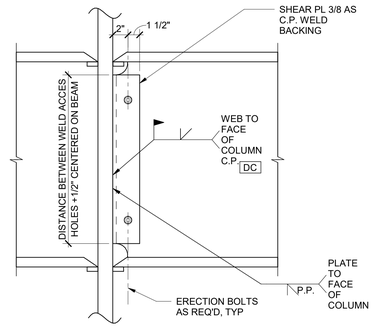


E DOUBLER PLATE-TWO SIDES

NOTES:

1. SHEAR PLATE WELDING SHALL BE PERFORMED AFTER ALL FLANGE WELDING HAS BEEN COMPLETED.
2. ALL CONNECTION PLATES AND STIFFENER PLATES SHALL BE A572 GRADE 50. CUT EDGES SHALL BE GROUND IN THE DIRECTION OF THE FLANGE AND SHALL HAVE A SURFACE ROUGHNESS VALUE LESS THAN OR EQUAL TO 500 AS DEFINED IN ANSI/ASME B46.1.
3. SEE G.S.N. FOR TESTING AND INSPECTION REQUIREMENTS.

16 TYPICAL REDUCED BEAM SECTION MOMENT FRAME CONNECTION SFRS
NO SCALE



15 SHEAR PLATE DETAIL SFRS
NO SCALE

ALTERNATE CONTINUITY PLATE SCHEDULE	
MARK	THICKNESS
A	3/4"
B	1"
C	1 1/4"
D	1 3/4"
E	2 3/4"

20 CONTINUITY PLATE SCHEDULE
NO SCALE

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12/15/2021

KEY PLAN

Drawing Title:

STEEL WUF-W MOMENT RESISTING FRAMES

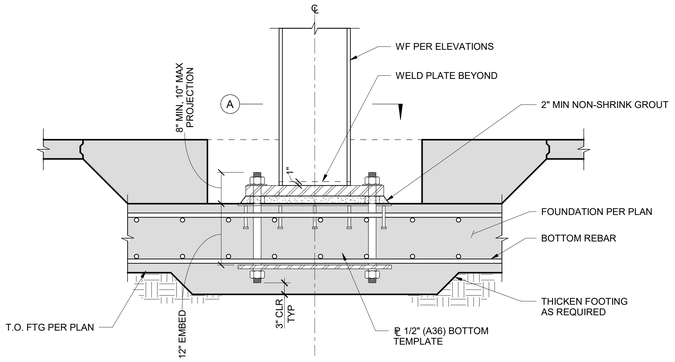
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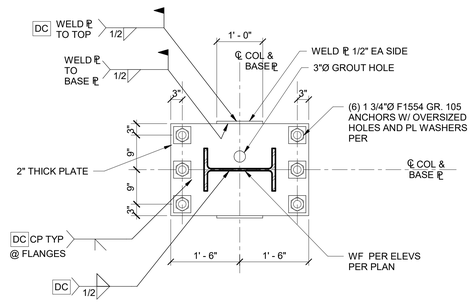
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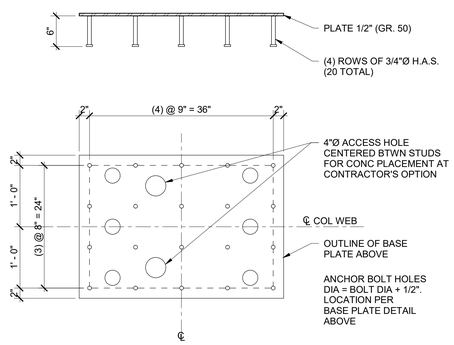
ELEVATION



A PLAN SECTION

9 FRAME BASE PLATE SFRS

SCALE: 3/4" = 1'-0"



14 TOP TEMPLATE PLATE SFRS

SCALE: 1" = 1'-0"

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12/15/2021

KEY PLAN

Drawing Title:

STEEL WUF-W MOMENT RESISTING FRAMES

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MEDICAL EQUIPMENT SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	WEIGHT (LBS)	MOUNTING	DETAIL
- -	55" TELEVISION	TBD	TBD	143	WALL	4 S0910
- -	REFRIGERATOR / FREEZER	TBD	TBD	1270 MAX	FLOOR	19 S0910
- -	PYXIS MED STATION	CAREFUSION	6 DRAWER MAIN	1000	FLOOR	10 S0910
- -	PYXIS MED STATION	CAREFUSION	7 DRAWER AUX	1000	FLOOR	10 S0910

MECHANICAL / PLUMBING EQUIPMENT SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	WEIGHT (LBS)	MOUNTING	DETAIL
AC 01	COMPUTER ROOM SUPLEMENTAL COOLING UNIT	MITSUBISHI	PKA-A36KA7	46	WALL	11 S0920
AC 02	COMPUTER ROOM SUPLEMENTAL COOLING UNIT	MITSUBISHI	PKA-A36KA7	46	WALL	11 S0920
AC 03	COMPUTER ROOM SUPLEMENTAL COOLING UNIT	MITSUBISHI	PKA-A36KA7	46	WALL	11 S0920
B 1	BOILER	AERCO	VMK PLATINUM 750 w/ EDGE [ii]	820	FLOOR	13 S0920
B 2	BOILER	AERCO	VMK PLATINUM 750 w/ EDGE [ii]	820	FLOOR	13 S0920
CU 01	COMPUTER ROOM SUPLEMENTAL COOLING UNIT	MITSUBISHI	PUY-A36NKA7	211	ROOF	1 S0920
CU 02	COMPUTER ROOM SUPLEMENTAL COOLING UNIT	MITSUBISHI	PUY-A36NKA7	211	ROOF	1 S0920
CU 03	COMPUTER ROOM SUPLEMENTAL COOLING UNIT	MITSUBISHI	PUY-A36NKA7	211	ROOF	1 S0920
EF 9	EXHAUST FAN (HIGH PLUME)	COOK	QMXVP/QMXHPVP	1156	ROOF	12 S0920
RAF 1	RETURN FAN	COOK	CPS	533	ROOF	2 S0920
RAF 2	RETURN FAN	COOK	CPS	533	ROOF	2 S0920
RTU 1	ROOF TOP UNIT	YORK	ZJ240C00G4D1ACD3A1	2977	ROOF	19 S0920
RTU 2	ROOF TOP UNIT	YORK	ZJ240C00G4D1ACD3A1	2977	ROOF	19 S0920

ELECTRICAL EQUIPMENT SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	WEIGHT (LBS)	MOUNTING	DETAIL
1TC1	TRANSFORMER	SCHNEIDER ELECTRIC	EXN75T3H	515	FLOOR	3 S0930
1TE1	TRANSFORMER	SCHNEIDER ELECTRIC	EXN75T3H	515	FLOOR	3 S0930
1TN1	TRANSFORMER	SCHNEIDER ELECTRIC	EXN75T3H	515	FLOOR	3 S0930
1TS1	TRANSFORMER	SCHNEIDER ELECTRIC	EXN75T3H	515	FLOOR	3 S0930
1ATSC1	AUTOMATIC TRANSFER SWITCH	ASCO POWER TECHNOLOGIES	J7ATB, J7ACTB, J7ADTB	950	FLOOR	9 S0930
1ATSE1	AUTOMATIC TRANSFER SWITCH	ASCO POWER TECHNOLOGIES	J7ATB, J7ACTB, J7ADTB	950	FLOOR	9 S0930
1ATSS1	AUTOMATIC TRANSFER SWITCH	ASCO POWER TECHNOLOGIES	J7ATB, J7ACTB, J7ADTB	950	FLOOR	9 S0930
GENERATOR	GENERATOR, 150 kW DIESEL FUELED (SEE ELECTRICAL DRAWINGS FOR LOCATION)	GENERAC POWER SYSTEMS	SD150	8,900	FLOOR	18 S0930
PANEL	DISTRIBUTION PANEL BOARD	SCHNEIDER ELECTRIC	XXXXX	187	WALL	6 S0930

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EQUIPMENT SCHEDULES

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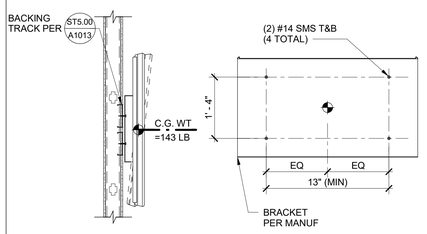
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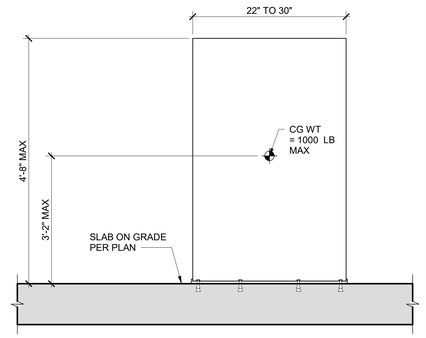
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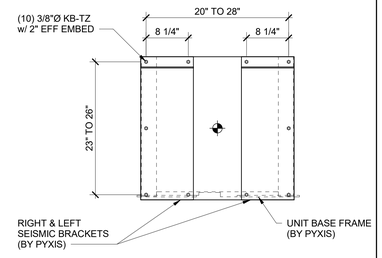
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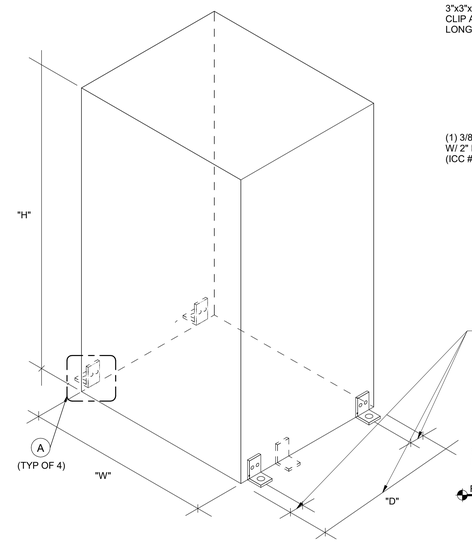
4 55" TELEVISION ANCHORAGE
SCALE: 3/4" = 1'-0"

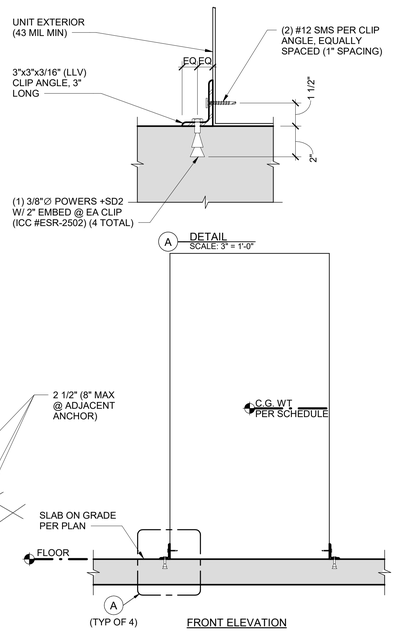




PXS
10 MEDICAL DISPENSER ANCHORAGE
SCALE: 1" = 1'-0"

NOTES:
1. FIELD VERIFY EQUIPMENT WEIGHT SIZE AND ANCHORAGE BEARING POINTS BEFORE ANCHORING.
2. CONTRACTOR TO REMOVE CASTERS BEFORE ANCHORING.





EQUIPMENT DESCRIPTION	EQUIPMENT NO./ MODEL	WIGHT (LBS)	DIMENSIONS			Hcg
			W	D	H	
-	TBD	202 SW 1270 MAX	34"	32.75"	66.25"	44.167"

19 REFRIGERATOR/FREEZER ANCHORAGE
SCALE: 1" = 1'-0"

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MEDICAL EQUIPMENT ANCHORAGE DETAILS

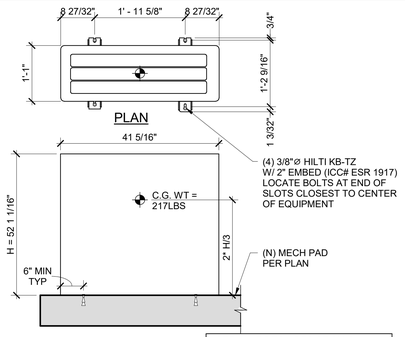
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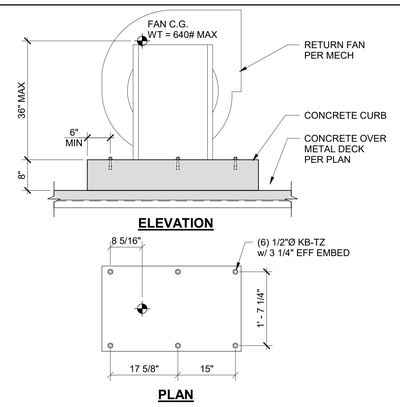
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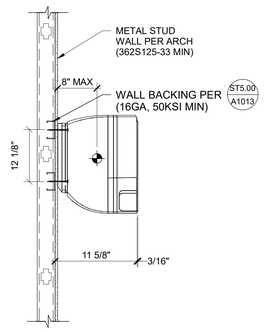


NOTE: UNIT REQUIRES SEISMIC ENHANCEMENT OF (1) ADDITIONAL 1/8"X16 1/2"X1" CARBON STEEL FLAT BAR ATTACHED TO UNIT W/ (3) #12X3/4" SCREWS AND (1) #14X3/4" SCREW IS TO BE ATTACHED ABOVE FOOT TO MEET THE REQUIREMENTS OF OSP

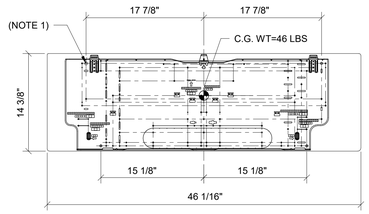
1 CONDENSING UNIT
SCALE: 3/4" = 1'-0"



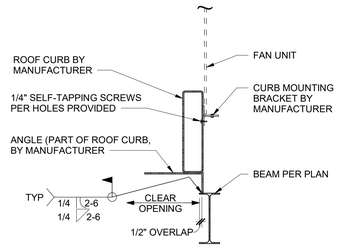
2 RETURN FAN ANCHORAGE
SCALE: 3/4" = 1'-0"



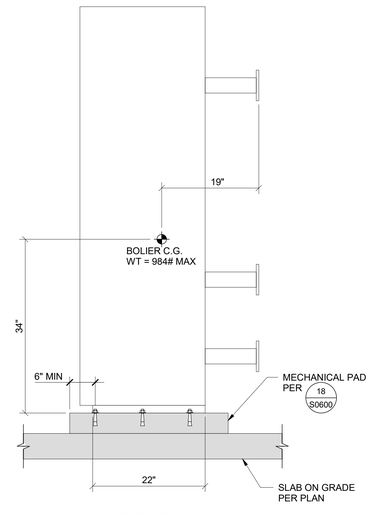
NOTE:
1. USE ¼" Ø TEK SCREWS INTO WALL BACKING

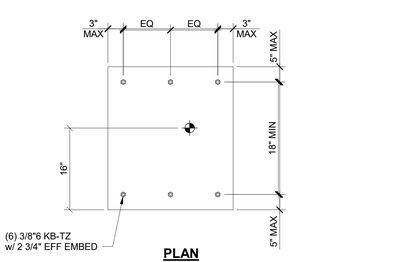


11 SPLIT SYSTEM ANCHORAGE
SCALE: 1" = 1'-0"

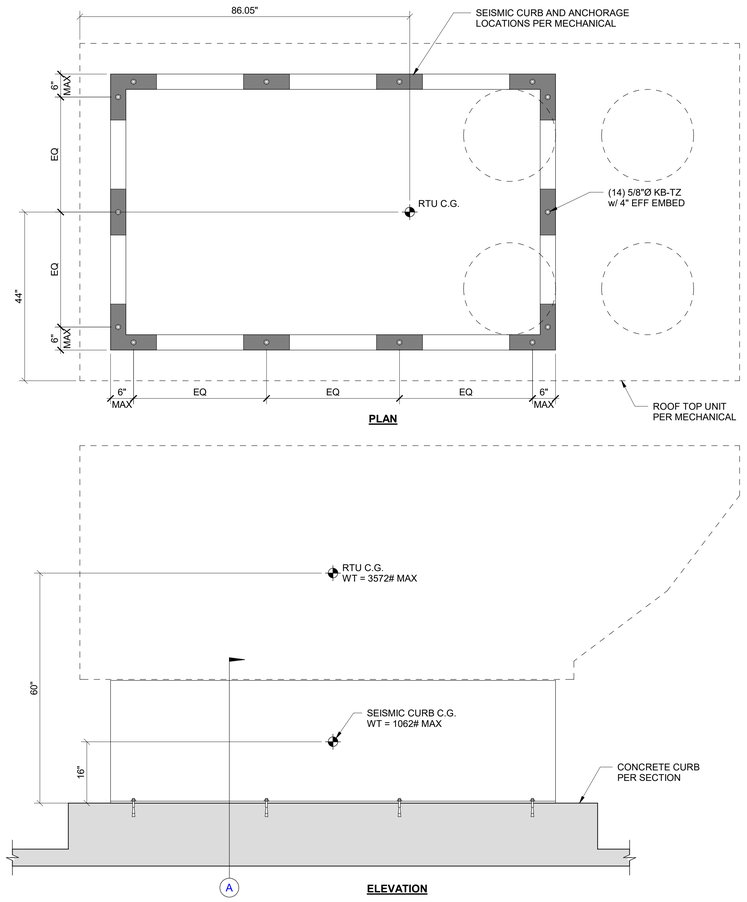


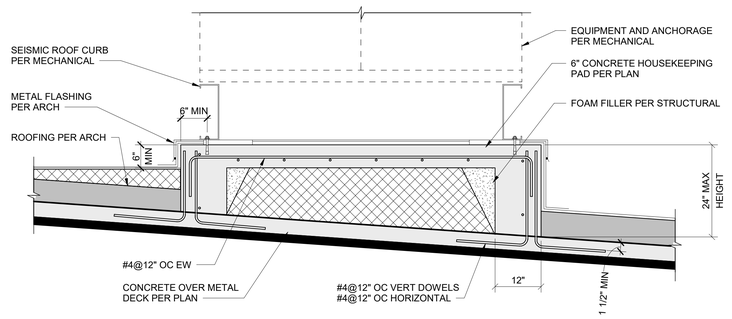
12 HIGH PLUME EXHAUST FAN ANCHORAGE
SCALE: 3/4" = 1'-0"





13 BOILER ANCHORAGE
SCALE: 1" = 1'-0"





19 ROOF TOP UNIT ANCHORAGE
SCALE: 3/4" = 1'-0"

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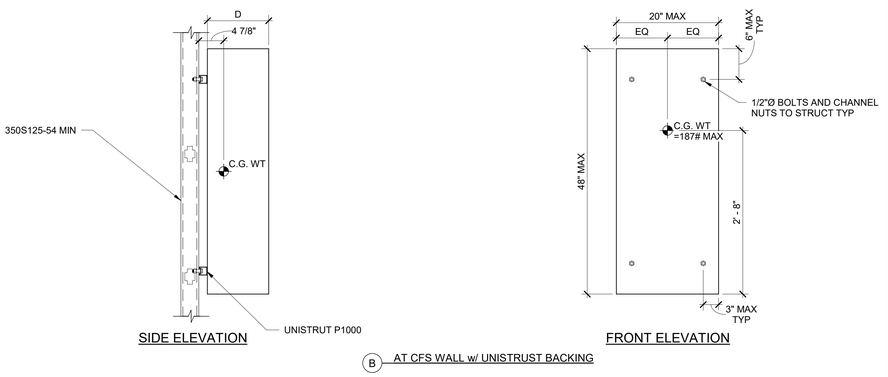
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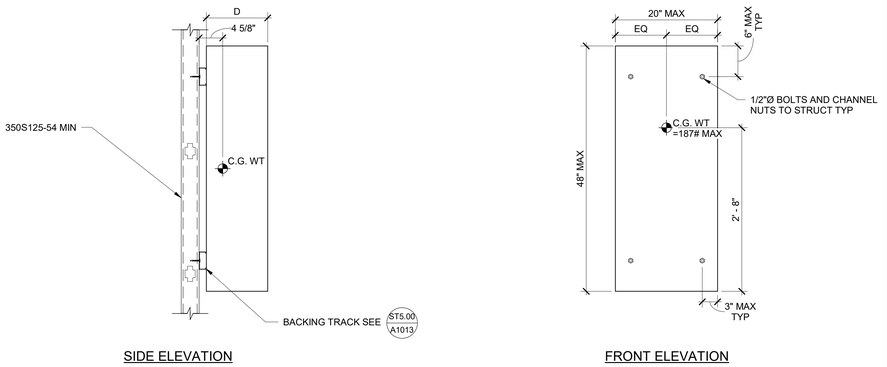
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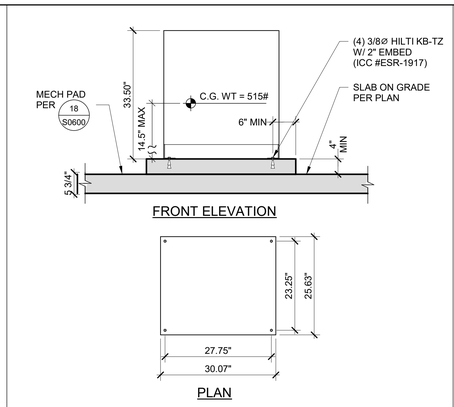


B AT CFS WALL w/ UNISTRUST BACKING

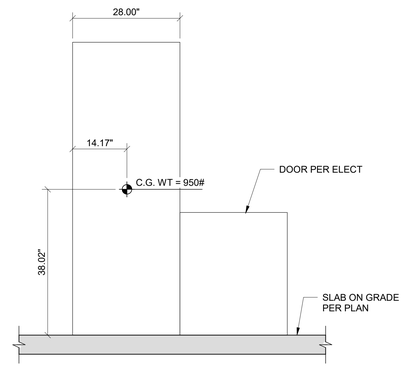


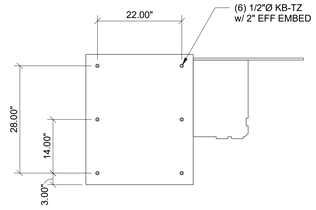
A AT CONCRETE WALL w/ BACKING TRACK

6 PANEL ANCHORAGE
SCALE: 1" = 1'-0"

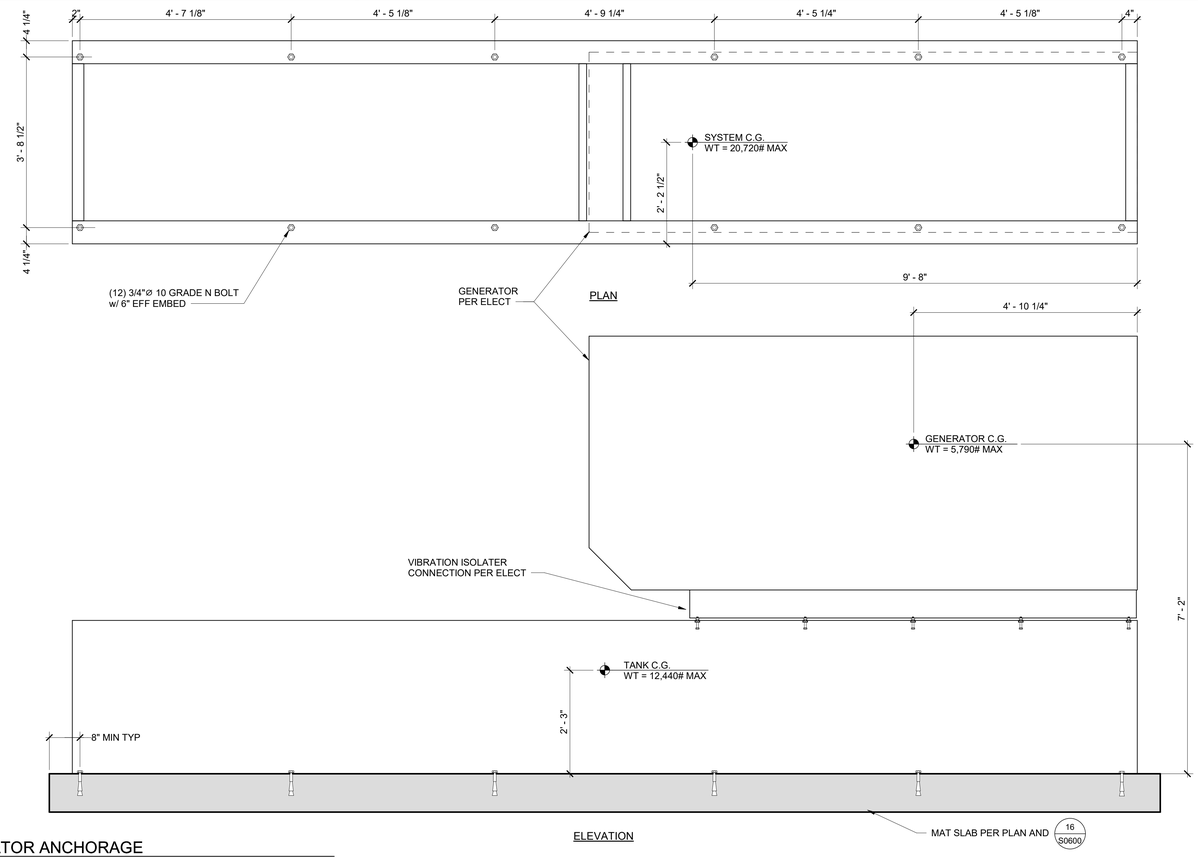


3 TRANSFORMER ANCHORAGE
SCALE: 3/4" = 1'-0"





9 ATS ANCHORAGE
SCALE: 3/4" = 1'-0"



18 GENERATOR ANCHORAGE
SCALE: 3/4" = 1'-0"

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Rev.	Description	Date
	ISSUE FOR PLAN REVIEW	21 JAN 2022
	BACKCHECK	
	ISSUE FOR PLAN REVIEW	27 OCT 2021
	ISSUE FOR PLANNING	15 DEC 2020
	ISSUE FOR GRADING PERMIT	03 DEC 2020

AGENCY APPROVAL

FACILITY #: 12372
OSHPD #:

ARCHITECT SEAL

CONSULTANT SEAL

REGISTERED PROFESSIONAL ENGINEER
ERIC LEHMKUHL
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Exp. 3/31/22
STRUCTURAL
STATE OF CALIFORNIA

12/15/2021

KEY PLAN

Drawing Title:

ELECTRICAL EQUIPMENT ANCHORAGE DETAILS

Issue Date: 01/21/2022

Project No.: 006240.00 Checked by: AP/LS

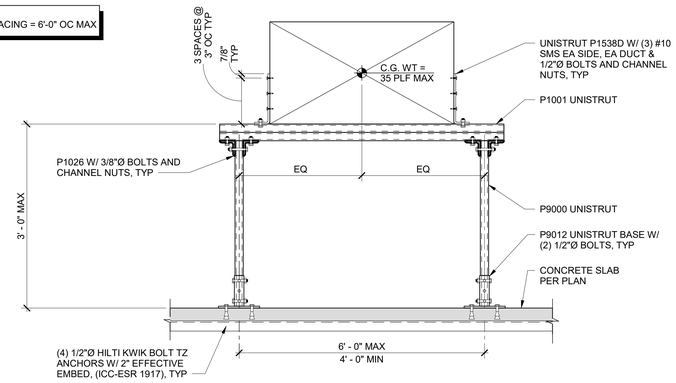
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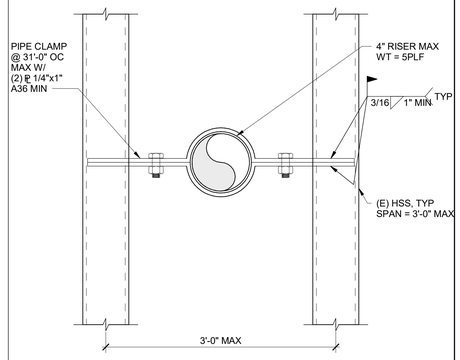
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NOTE:
SUPPORTS SPACING = 6'-0" OC MAX



4 ROOF MOUNTED DUCT SUPPORT
SCALE: 1" = 1'-0"



PLAN

10 MECH SHAFT RISER GRAVITY SUPPORT
SCALE: 3" = 1'-0"

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AGENCY APPROVAL

FACILITY #: 12372
OSHPD #:

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REGISTERED PROFESSIONAL ENGINEER
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12/15/2021

KEY PLAN

Drawing Title:

MEP DISTRIBUTION SYSTEM SUPPORT DETAILS

Issue Date: 01/21/2022

Project No.: 006240.00 Checked by: AP/LS

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PLAN SYMBOLS

EXISTING CONSTRUCTION TO REMAIN

EXISTING CONSTRUCTION TO BE REMOVED

NEW CONSTRUCTION

INDICATES AREAS NOT IN CONTRACT

REFLECTED CEILING PLAN SYMBOLS

CEILING HEIGHT — 9' - 0" — HEIGHT OF CEILING ABOVE FINISHED FLOOR

LAY-IN PANEL

ACCESS DOOR

SURFACE OR RECESSED LUMINAIRE

PENDANT HUNG LUMINAIRE

UNDER-CABINET LUMINAIRE

CARD READER — CR

FIRE ALARM SPEAKER — F

DAYLIGHT SENSOR — D

CEILING MICROPHONE — M

WIRELESS AP

PROJECTOR SCREEN

A/V PROJECTOR

AIR DEVICE - SUPPLY

AIR DEVICE - LINEAR SUPPLY

AIR DEVICE - RETURN

AIR DEVICE - EXHAUST

RADIANT PANEL

OCCUPANCY SENSOR — P

SMOKE DETECTOR — S

HEAT DETECTOR — H

MOTION / SECURITY DETECTOR — M

CAMERA

CLOCK — C

SPEAKER — S

WALL WASH LUMINAIRE

TRACK LIGHT

STRIP LUMINAIRE

COVE LUMINAIRE

WALL MOUNT STRIP

EXIT LUMINAIRE

SURGICAL LIGHT/ EQUIPMENT BOOM PENDANT

SPRINKLER HEAD

NURSE CALL DOME LIGHT — N

IV / CURTAIN TRACK

REFERENCE SYMBOLS (ARCHITECTURAL)

ROOM NAME AND NUMBER — OFFICE / 1125 — ROOM NAME / ROOM NUMBER

PARTITION — A1 — PARTITION TYPE

INTERIOR DOOR ASSEMBLY — 1125A — ROOM NUMBER SERVED BY DOOR; SUFFIX ADDED IF MULTIPLE DOORS SERVE SAME ROOM

EXTERIOR DOOR ASSEMBLY — E101 — DENOTES EXTERIOR DOOR; NUMBERED SEQUENTIALLY

BORROWED LIGHT — 1125A — ROOM NUMBER; SUFFIX ADDED IF MULTIPLE OPENINGS SERVE SAME ROOM

EXTERIOR GLAZED OPENINGS — E45 — DENOTES EXTERIOR OPENING NUMBERED SEQUENTIALLY

LOUVER — L10

SHEET NOTE — C1 — DEMOLITION; 1 — CONSTRUCTION

KEYNOTE — 042000 - UNIT MASONRY — KEYNOTE SPECIFICATION SECTION; SPECIFIED ITEM

EQUIPMENT — PATIENT BED — EQUIPMENT DESCRIPTION; EQ-1 — EQUIPMENT IDENTIFIER

ROOF ASSEMBLY TAG — RA-XX

SOFFIT ASSEMBLY TAG — SA-XX

EXTERIOR WALL ASSEMBLY TAG — WA-XX

STC TAG — STC-45

ADA ACCESSIBLE CLEARANCES

FINISH TAG — F / W / B

WALL FINISH TAG — P-3

CODE-REQUIRED SIGNAGE TAG — RS-1

REFERENCE SYMBOLS (ALL DISCIPLINES)

WALL SECTION — 1 / A0401 SIM — DETAIL/ SECTION NUMBER; "SIMILAR" INDICATION (WHERE APPLICABLE); SHEET NUMBER

BUILDING SECTION — 1 / A0331 — 1 / A0331 — DETAIL / SECTION NUMBER; SHEET NUMBER

DETAIL SECTION — 1/A0801 SIM — DETAIL NUMBER; SHEET NUMBER; "SIMILAR" INDICATION (WHERE APPLICABLE)

EXTERIOR ELEVATION — 3 SIM — A0301 — A0301 — ELEVATION NUMBER; "SIMILAR" INDICATION (WHERE APPLICABLE); SHEET NUMBER

INTERIOR ELEVATIONS — 2 1 4 5 — A0601 SIM — ELEVATION NUMBER; SHEET NUMBER; "SIMILAR" INDICATION (WHERE APPLICABLE)

LARGE SCALE BLOWUP OF PLAN OR DETAIL — 1 / A0451 SIM — DETAIL; "SIMILAR" INDICATION (WHERE APPLICABLE); SHEET NUMBER

LEVEL REFERENCE — LEVEL 02 / 118'-6" — LEVEL DESCRIPTION; LEVEL ELEVATION

NEW STRUCTURAL GRID — R — GRID REFERENCE; GRID LINE

EXISTING STRUCTURAL GRID — 2 — EXISTING GRID REFERENCE; EXISTING GRID LINE

MATCH LINE — 1 / A0101.A / 1 / A0101.B — SHEET NUMBER; SHEET NUMBER; MATCH LINE

REVISION — 1 — REVISION NUMBER (SHEET SPECIFIC); CLOUDED AREA OF REVISION

NORTH ARROW — N

SPOT ELEVATION — LEVEL 01 / 100'-0"

CENTERLINE — ℄

MATERIALS

ACOUSTICAL CEILING

COMPRESSIBLE FILLER

ALUMINUM

BRICK

CONCRETE MASONRY UNIT

CONCRETE OR PRECAST

EARTH

FIBERGLASS/ SOLID SURFACE MATERIAL

FIBROUS BLANKET INSULATION (GLASS FIBER AND MINERAL WOOL)

FIBROUS BOARD INSULATION (GLASS FIBER AND MINERAL WOOL)

RIGID INSULATION

FINISHED WOOD

GRAVEL OR POROUS FILL

PLYWOOD — HORIZONTAL — VERTICAL

CORE MATERIAL

SPRAY INSULATION

SPRAY FIREPROOFING

STEEL OR IRON

STONE

TERRAZZO

WOOD FRAMING

WOOD BLOCKING OR SHIM

PLASTER AND GYPSUM BOARD

GENERAL NOTES

1. ENCLOSE ALL EXPOSED DUCTS, PIPES, CONDUITS, ETC. IN FINISHED SPACE WITH CONSTRUCTION AND FINISH TO MATCH ADJACENT CONSTRUCTION UNO.
2. PROVIDE ACCESS DOORS OF APPROPRIATE SIZE, TYPE AND FIRE RATING FOR ALL CONCEALED ITEMS THAT REQUIRE ADJUSTMENT, MAINTENANCE, MONITORING, ETC. COORDINATE LOCATIONS WITH ARCHITECT.
3. DO NOT DETERMINE DIMENSIONS AND SIZE OF THE GRAPHIC REPRESENTATIONS SHOWN ON THE DRAWINGS BY USING MEASURING DEVICES (DO NOT "SCALE"). RELY ON THE NUMERIC DIMENSIONS SHOWN ON THE DRAWINGS FOR MEASUREMENT.
4. DIMENSIONS ARE TAKEN FROM CENTERLINE OF STRUCTURE, FACE OF CONCRETE OR FINISHED FACE OF PARTITIONS UNO. SEE PARTITION TYPES SHEETS (A1000 SERIES) FOR PARTITION THICKNESS AND MATERIALS.
5. CENTER ALL CEILING-MOUNTED DEVICES IN SUSPENDED CEILING GRID SYSTEM PANELS, UNO
6. REFER TO FINISH LEGEND FOR FINISH PLAN SYMBOLS.

ABBREVIATIONS

AC	AIR CONDITIONING
ACC	ACCESSIBLE
ACM	ASBESTOS CONTAINING MATERIAL
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
AGF	ARCHITECTURAL GLASS FLOORING
AHU	AIR HANDLING UNIT
ALUM	ALUMINUM
ALT	ALTERNATE
APC	ACOUSTICAL PANEL CEILING
APPROX	APPROXIMATE
ARCH	ARCHITECT(URAL)
ASN	ABRASIVE STAIR NOSING
ATC	ACOUSTICAL TILE CEILING
AUTO	AUTOMATIC
AWP	ACOUSTICAL WALL PANEL
BTWN	BETWEEN
BLDG	BUILDING
BLKG	BLOCKING
BRG	BEARING
BSMT	BASEMENT
BTM	BOTTOM
C	COURSE
CFCI	CONTRACTOR FURNISHED - CONTRACTOR INSTALLED
CF	CONDUCTIVE FLOORING
CFMF	COLD-FORMED METAL FRAMING
CG	CORNER GUARD
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLO	CLOSET
CLR	CLEAR(ANCE)
CLRM	CLASSROOM
CMT	CERAMIC MOSAIC TILE
CMTB	CERAMIC MOSAIC TILE BASE
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
COMM	COMMUNICATION
CONC	CONCRETE
CONF	CONFERENCE
CONT	CONTINUOUS
CONTR	CONTRACT(OR)
COORD	COORDINATE
CORR	CORRIDOR
CPT	CARPET(ING)
CR	CRASH RAIL
CT	CERAMIC TILE
CTB	CERAMIC TILE BASE
CUH	CABINET UNIT HEATER
CW	CASEWORK
DEMO	DEMOLISH / DEMOLITION
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DN	DOWN
DS	DOWNSPOUT
EA	EACH
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
ELEC	ELECTRIC(AL)
EL	ELEVATION
ELEV	ELEVATOR
EM	ENTRANCE MATS
EMB	ELECTRONIC MARKER BOARD
EMER	EMERGENCY
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
ER	EPOXY RESIN
EST	ESTIMATE(D)
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION
EXPD	EXPOSED
EXT	EXTERIOR
EWC	ELECTRIC WATER COOLER
FD	FLOOR DRAIN
FDTN	FOUNDATION
FLD	FLOOR DEFLECTION LINE
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FG	FOOT GRILLE
FHC	FIRE HOSE CABINET
FIN	FINISH(ED)
FLR	FLOOR
FPRG	FIRE PROTECTION RATED GLAZING
FRTW	FIRE RETARDED TREATED WOOD
FT	FOOT/FEET
FTG	FOOTING
FURN	FURNISH(ED) / FURNISHINGS
FWP	FABRIC WRAPPED PANEL
GA	GAUGE / GAGE
GALV	GALVANIZED
GFRC	GLASS FIBER REINF CONCRETE
GFRG	GLASS FIBER REINF GYPSUM
GL	GLASS
GLMT	GLASS MOSAIC TILE
GLMU	GLASS MASONRY UNIT
GLT	GLASS TILE
GST	GLASS STAIR TREAD
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
HDW	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HOSP	HOSPITAL
HP	HIGH POINT
HPC	HIGH PERFORMANCE COATING
HPL	HIGH PRESSURE DECORATIVE LAMINATE
HR	HANDRAIL
HSS	HOLLOW STRUCTURAL SECTION
HT	HEIGHT
HVAC	HEATING-VENTILATING-AIR CONDITIONING
HWB	HEAT WELDING BEAD
ID	INSIDE DIAMETER
INST	INSTALL(ED)
INSUL	INSULATION / INSULATED
INT	INTERIOR
JAN	JANITOR
JT	JOINT
KIT	KITCHEN
LAB	LABORATORY
LAM	LAMINATE(D)
LAV	LAVATORY
LGT	LENGTH
LH	LEFT HAND
LIN	LINOLEUM
LP	LOW POINT
LT	LIGHT
LTWT	LIGHTWEIGHT
LVT	LUXURY VINYL TILE
MACH	MACHINE
MARB	MARBLE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MARKER BOARD
MCM	METAL COMPOSITE MATERIAL
MECH	MECHANICAL
MES	METAL EDGE STRIP
MEZZ	MEZZANINE
MFR	MANUFACTURER / MANUFACTURED
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MPC	METAL PANEL CEILING
MSS	METAL SUSPENSION SYSTEM
MTL	METAL
MW	MILLWORK
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NSMF	NON-STRUCTURAL METAL FRAMING
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED - CONTRACTOR INSTALLED
OFF	OFFICE
OFOI	OWNER FURNISHED - OWNER INSTALLED
OH	OVERHEAD
OPNG	OPENING
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
PBD	PARTICLE BOARD
PCC	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PCONC	POLISHED CONCRETE
PERF	PERFORATE(D)
PL	PLATE
PLP	PLASTIC PANEL
PLYWD	PLYWOOD
PREFAB	PREFABRICATED
PREFIN	PREFINISHED
PRT	POLY RESIN TILE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PLSHD	POLISHED
PMT	PORCELAIN MOSAIC TILE
PNT	PAINT(IED)
PT	PORCELAIN TILE
PTB	PORCELAIN TILE BASE
QT	QUARRY TILE
QTB	QUARRY TILE BASE
QTY	QUANTITY
R	RISER
RAD	RADIUS
RAF	RESILIENT ATHLETIC FLOORING
RBF	RUBBER FLOORING
RBRT	RUBBER TILE
RCP	REFLECTED CLG PLAN
RD	ROOF DRAIN
REF	REFER TO / REFERENCE TO
REFG	REFRIGERATOR
REINF	REINFORCED / REINFORCING
REQD	REQUIRED
RES	RESILIENT
RESB	RESILIENT BASE
REV	REVISE / REVISION
RF	RESINOUS FLOORING
RFG	ROOFING
RH	RIGHT HAND
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RSN	RESILIENT STAIR NOSING
RST	RESILIENT STAIR TREAD
RT	RESILIENT TILE
RTU	ROOF TOP UNIT
RV	RIGID VINYL
S	SEALED
SDF	STATIC DISSIPATIVE FLOORING
SECT	SECTION
SGT	STRUCTURAL GLAZED TILE
SHR	SHOWER
SHT	SHEET
SIM	SIMILAR
SM	SPECIALIZED METAL
SOG	SLAB-ON-GRADE
SP	SAFETY PAD
SPEC	SPECIFY / SPECIFICATION
SQ	SQUARE
SS	SOLID SURFACE / SURFACING
SST	STAINLESS STEEL
ST	STONE
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURE / STRUCTURAL
SUSP	SUSPENDED
SV	SHEET VINYL
SWC	SPECIAL WALL COATING
T	TREAD
TB	TACK BOARD
TBD	TO BE DETERMINED
TEMP	TEMPORARY
TER	TERRAZZO
TERB	TERRAZZO BASE
TEXT	TEXTURE
THK	THICK(NESS)
TLT	TOILET
TOS	TOP OF STEEL
TOW	TOP OF WALL
TP	TANGENT POINT
TS	TACKABLE SURFACE
TRSLT	TRANSLUCENT
TYP	TYPICAL
T&G	TONGUE & GROOVE
UC	UNDERCOUNTER
UPH	UPHOLSTERY
UNO	UNLESS NOTED OTHERWISE
VAC	VACUUM
VCT	VINYL COMPOSITION TILE
VEST	VESTIBULE
VET	VINYL ENHANCED TILE
VIF	VERIFY IN FIELD
VNL	VINYL
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
WAF	WOOD ATHLETIC FLOORING
WC	WATER CLOSET
WCV	WALL COVERING
WD	WOOD
WDWTR	WINDOW TREATMENT
WP	WORK POINT
WPC	WOOD PANEL CEILING
WT	WEIGHT

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ARCHITECT SEAL

LICENSED ARCHITECT — MATTHEW S. GREINER — NO. C27137 — REN.: 10-31-2023 — STATE OF CALIFORNIA

CONSULTANT SEAL

Drawing Title:

SYMBOLS & ABBREVIATIONS

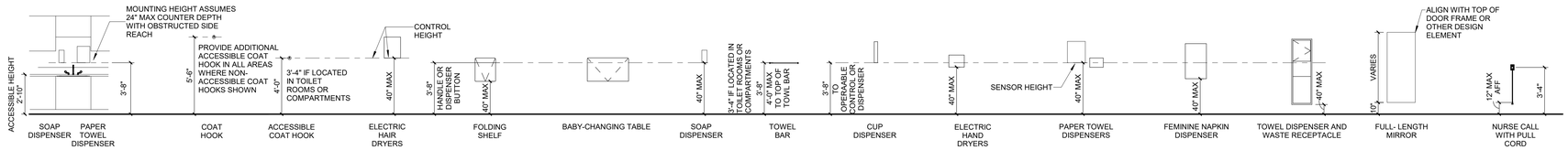
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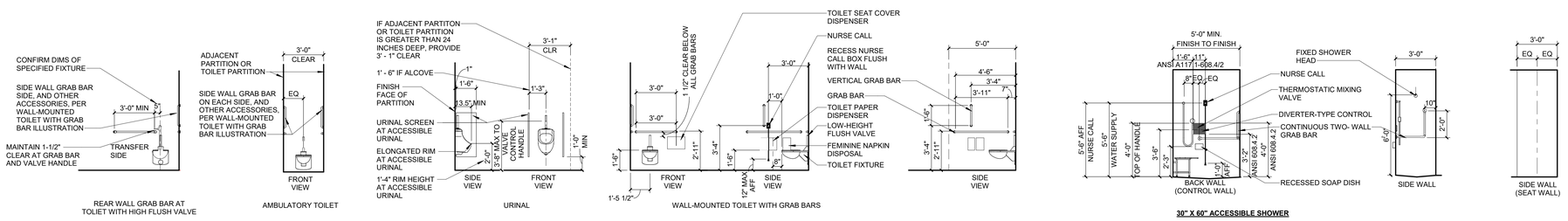
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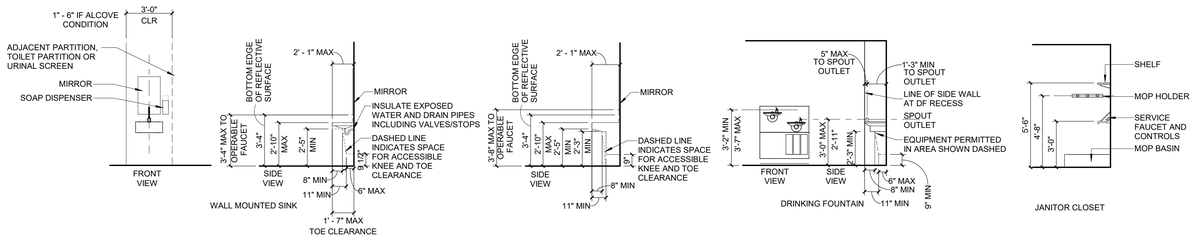
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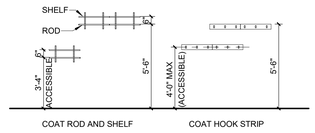
EQUIPMENT AND ACCESSORIES



ACCESSORIES AND PLUMBING

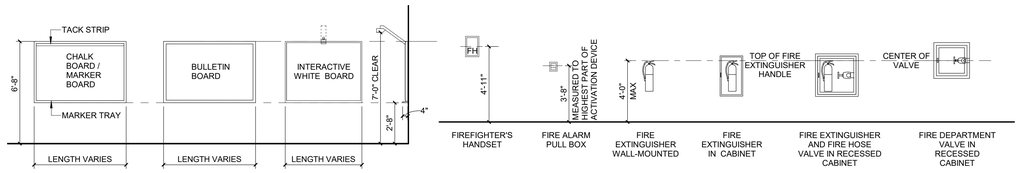


ACCESSIBLE SHOWERS



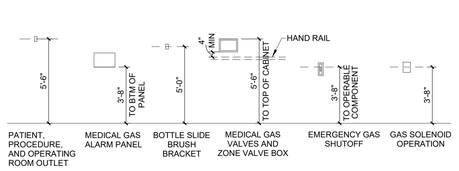
ACCESSORIES AND PLUMBING

COAT HANGING

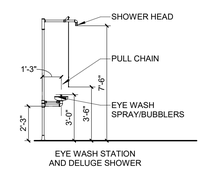


VISUAL DISPLAY BOARDS

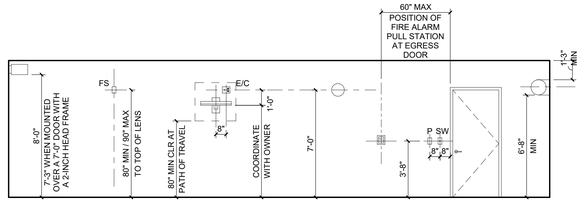
FIRE PROTECTION EQUIPMENT

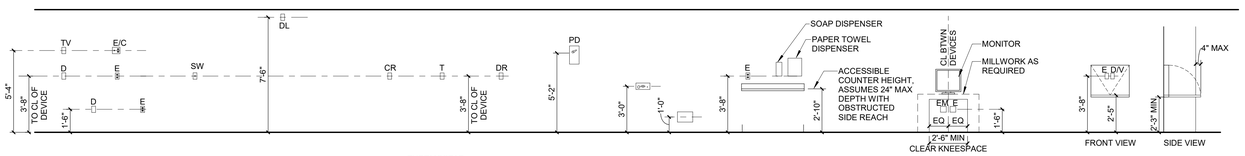


GAS VALVES



EMERGENCY SHOWER





ELECTRICAL CONTROL DEVICES

GENERAL NOTES:

1. MOUNTING HEIGHT INFORMATION BASED ON 2010 ADA STANDARDS AND CBC 11B UTILIZING THE MOST RESTRICTIVE REQUIREMENTS OF EACH. COORDINATE MOUNTING HEIGHTS TO COMPLY WITH SLOPED FLOOR CONDITIONS.
2. HEIGHTS AT TOILETS ARE TO THE TOP OF THE SEAT.
3. ACCESSIBLE SINK MOUNTING HEIGHTS SHALL BE MAXIMUM DIMENSIONS AT THE LEADING EDGE OF THE LAV OR COUNTER.
4. FOR ACCESSORY MOUNTING, COORDINATE PRODUCT CONTROL OR DISPENSER HEIGHT WITH MOUNTING DATUM INDICATED.
5. ALL DIMENSIONS SHOWN HERE APPLY UNLESS OTHERWISE NOTED IN THE DRAWINGS.
6. ALL DIMENSIONS ARE TO FINISHED FACE OF WALL OR FLOOR, UNLESS OTHERWISE NOTED.

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ARCHITECT SEAL



CONSULTANT SEAL

Drawing Title:

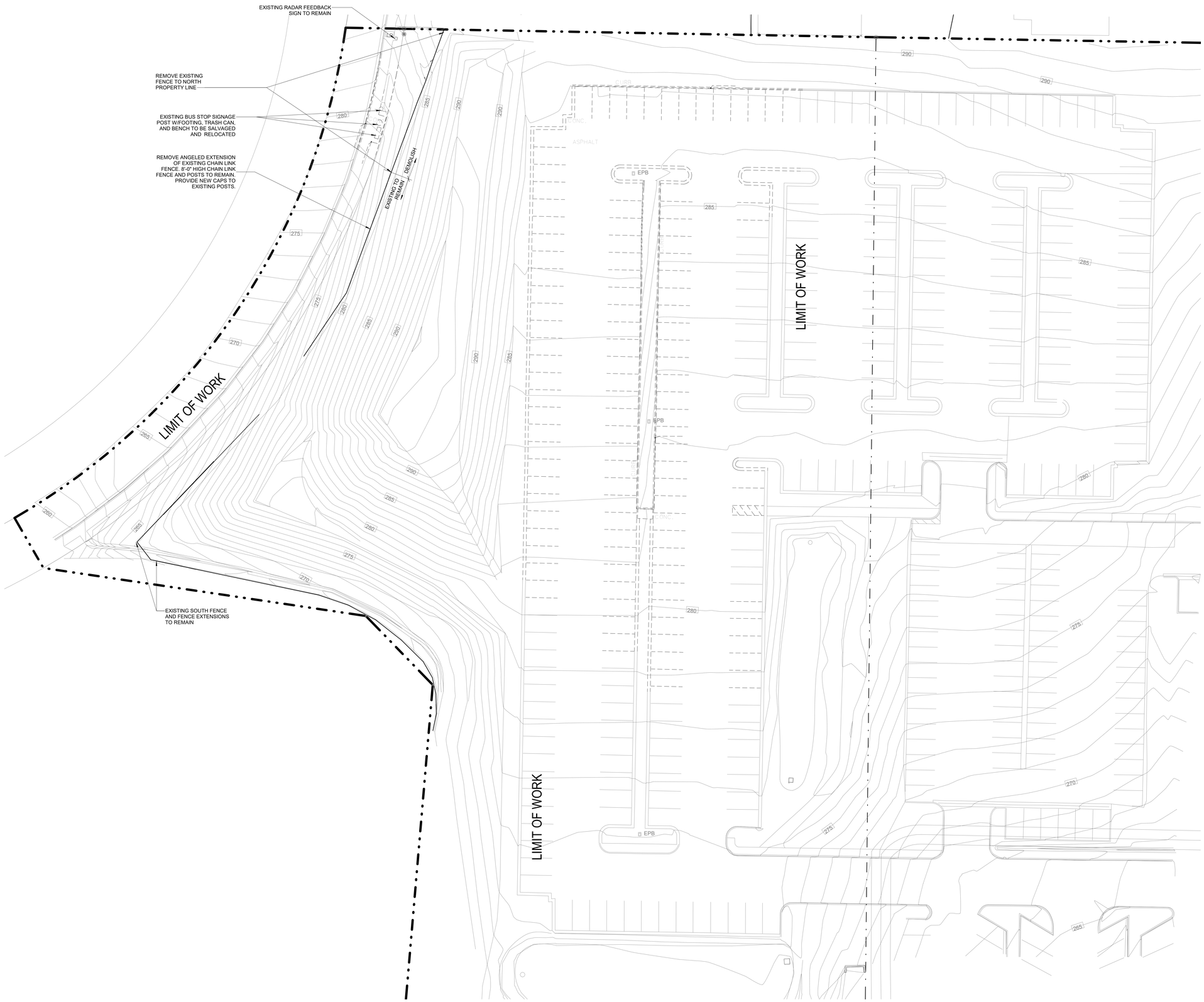
MOUNTING HEIGHTS CALIFORNIA SPECIFIC BASED ON 2019 CBC

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1 OVERALL SITE PLAN
1" = 20'-0"

0' 20' 40'

N

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LICENSED ARCHITECT
MATTHEW S. GREINER
NO. C27137
REN.: 10-31-2023
STATE OF CALIFORNIA

CONSULTANT SEAL

Drawing Title:

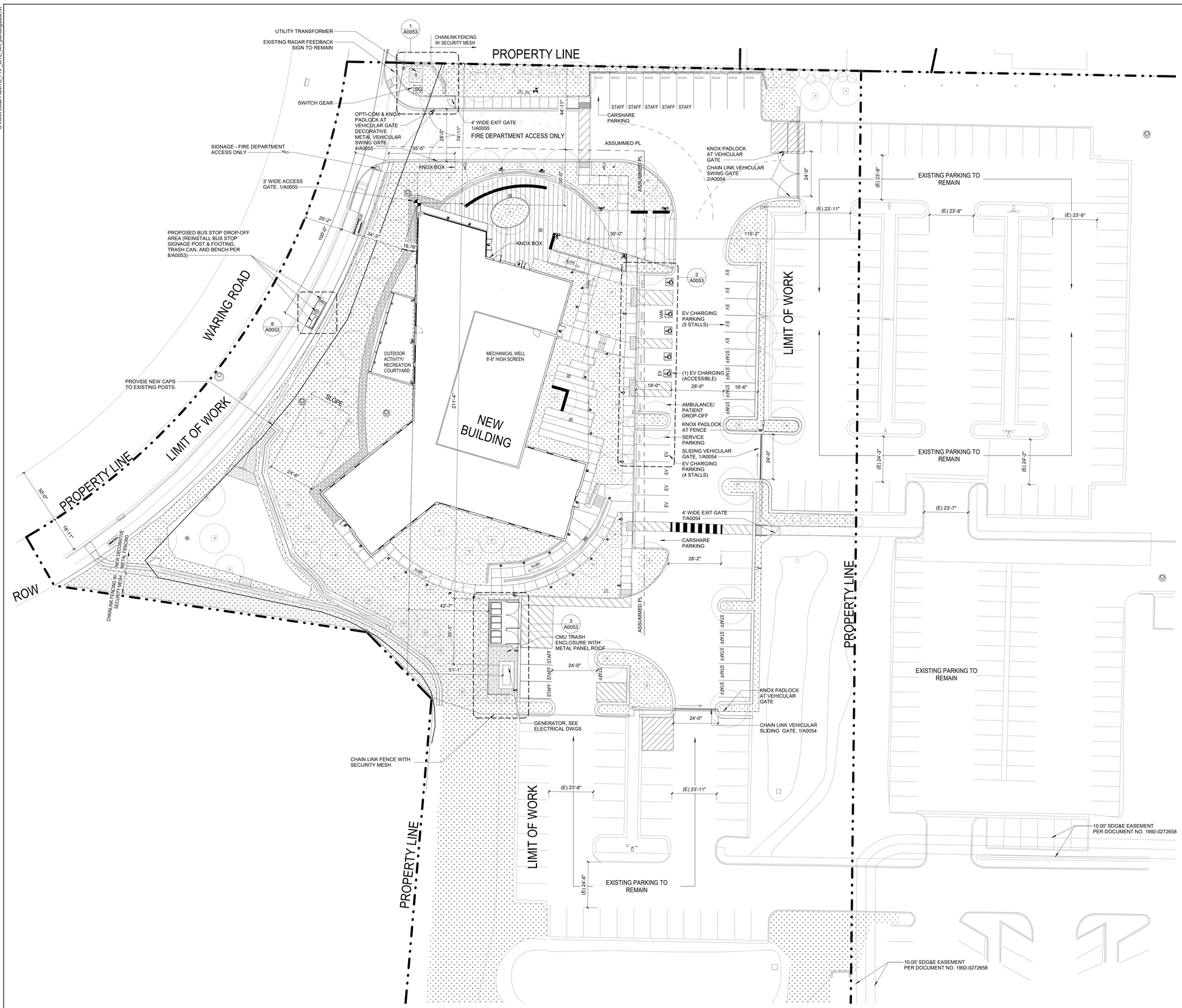
DEMOLITION SITE PLAN

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1 OVERALL SITE PLAN
1" = 20'-0"

0' 20' 40'

N

KEYNOTES

LEGEND

- LANDSCAPE, REFER TO LANDSCAPE DRAWINGS
- PAVING, REFER TO CIVIL & LANDSCAPE DRAWINGS
- FIRE HYDRANT, REFER TO CIVIL DRAWINGS
- PROPERTY LINE
- LIMIT OF WORK

GENERAL NOTE

1. REFER TO LANDSCAPE AND CIVIL DRAWINGS FOR ADDITIONAL SITE WORK INFORMATION AND DIMENSIONING.
2. CONTRACTOR TO PROVIDE OPTI-COM FOR EMERGENCY ACCESS GATES.
3. PRIOR TO DELIVERY OF COMBUSTIBLE MATERIALS OR START OF COMBUSTIBLE CONSTRUCTION, CONTRACTOR TO VERIFY THE APPROVED, PERMANENT WATER SUPPLY (FIRE HYDRANTS) MUST BE INSTALLED, TESTED AND PLACED IN SERVICE PRIOR TO DELIVERY OF COMBUSTIBLE MATERIALS OR START OF COMBUSTIBLE CONSTRUCTION.
4. OWNER TO PROVIDE NEW BUILDING ADDRESS SIGNAGE ON EXISTING MARQUEE AT MAIN ENTRANCE ON VISTA WAY. ADDRESS MUST BE CLEARLY VISIBLE AND LEGIBLE.
5. OWNER TO PROVIDE ADEQUATE RADIO COVERAGE ON THE 800MHZ COUNTRYWIDE COMMUNICATION SYSTEM. WHEN TESTED, IF THE 800HMZ SIGNAL STRENGTH READINGS FALL BELOW 65 IN ANY PORTION OF THE BUILDING, EITHER ABOVE OR BELOW GRADE AS MEASURED BY AN 800 MHZ PORTABLE RADIO, THE PURCHASE AND INSTALLATION OF ONE OR MORE BI-DIRECTIONAL AMPLIFIER RADIO COVERAGE ENHANCER IS REQUIRED.
6. CONTRACTOR TO COORDINATE PRE-CON MEETING PRIOR TO COMBUSTIBLE MATERIALS DROPPED ON SITE.

PARKING ANALYSIS

NOTE:
PARKING SPACES RELOCATED & MODIFIED TO COMPLIANT 8'X18' WITH 28' WIDE DRIVE AISLE FOR FIRE TRUCK ACCESS

CITY OF OCEANSIDE COMPREHENSIVE ZONING ORDINANCE, ARTICLE 3103 HOSPITALS - 1 PER 1 BED (FOR 16 BEDS)	16 SPACES
ADA PARKING REQ'D FOR NEW BUILDING:	2 SPACES
ADA PARKING PROVIDED FOR NEW BUILDING:	4 SPACES INCLUDES 1 VAN ACC. STALL
EV CHARGING PARKING PROVIDED: ARTICLE 3048	10 SPACES INCLUDES 1 ACC. STALL (5 CHARGING STATIONS)
CARSHARE PARKING PROVIDED:	2 SPACES
AMBULANCE STALL PROVIDED:	1 SPACE
SERVICE STALL PROVIDED:	1 SPACE
STAFF PARKING PROVIDED: (18 TOTAL STAFF)	18 SPACES
VISITOR PARKING PROVIDED:	26 SPACES
TOTAL PARKING PROVIDED: (WITHIN LIMIT OF WORK)	46 SPACES
PARKING SUMMARY	
EXISTING SPACES:	353 SPACES
REMOVED SPACES:	88 SPACES
NEW TOTAL SPACES INCLUDING EXISTING:	265 SPACES

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ARCHITECT SEAL

LICENSED ARCHITECT
MATTHEW S. GREINER
NO. C27137
REN.: 10-31-2023
STATE OF CALIFORNIA

CONSULTANT SEAL

Drawing Title:

OVERALL SITE PLAN

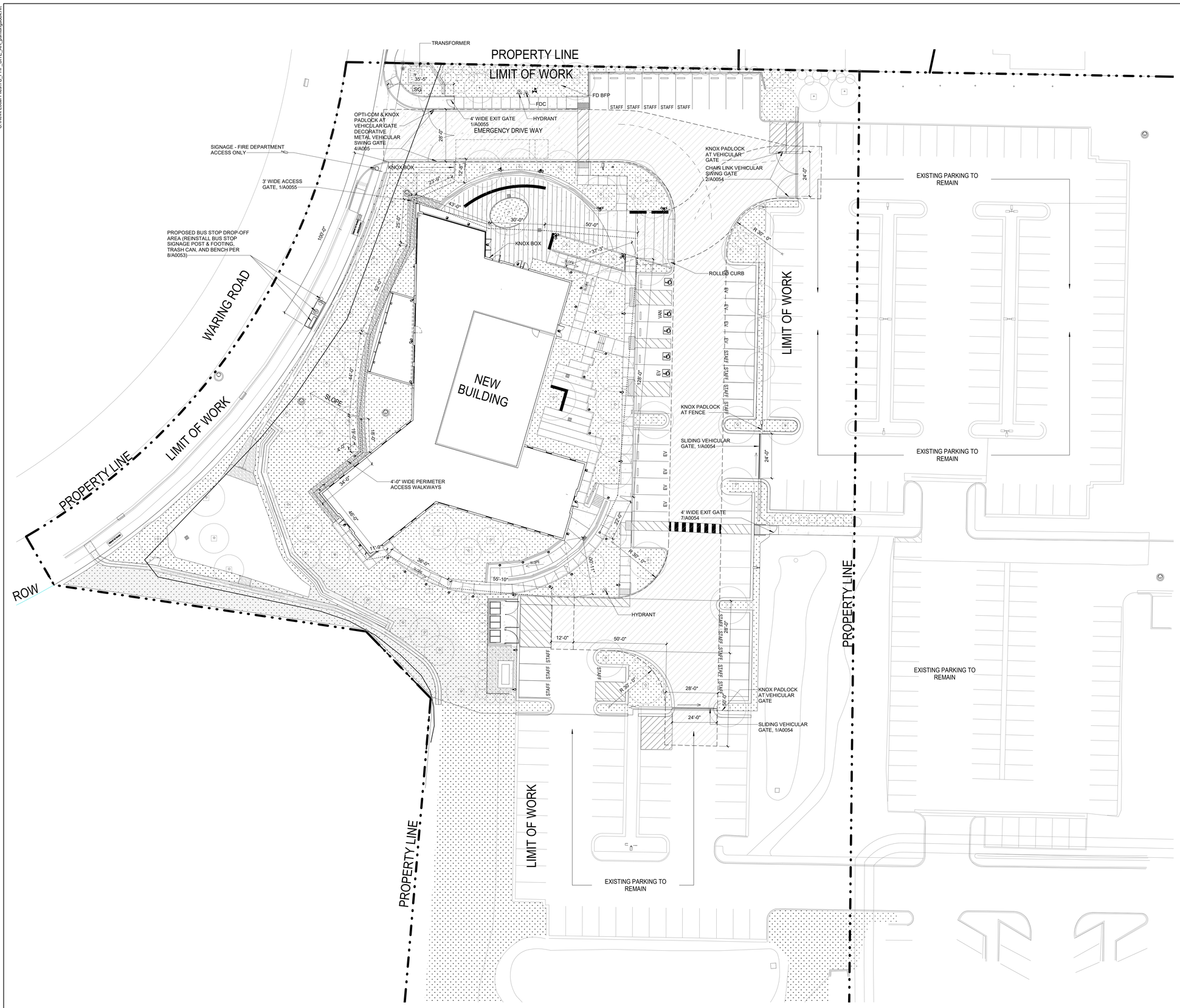
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1 FIRE ACCESS SITE PLAN
1" = 20'-0"

0' 20' 40'

N

LEGEND

- LANDSCAPE, REFER TO LANDSCAPE DRAWINGS
- FIRE HYDRANT, REFER TO CIVIL DRAWINGS
- 28'-0" TYP. — FIRE TRUCK ACCESS
- FIRE HOSE PULL

LEGEND

- LANDSCAPE, REFER TO LANDSCAPE DRAWINGS
- PAVING, REFER TO CIVIL & LANDSCAPE DRAWINGS
- FIRE HYDRANT, REFER TO CIVIL DRAWINGS
- PROPERTY LINE
- LIMIT OF WORK

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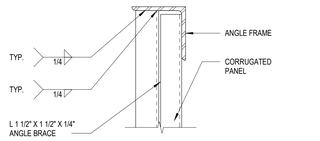
FIRE ACCESS SITE PLAN

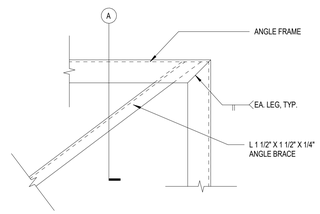
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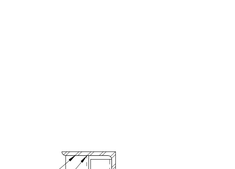
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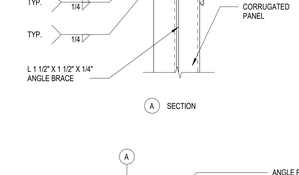


7 TRASH ENCLOSURE - GATE CONN. DETAILS
1 1/2" = 1'-0"

6 TRASH ENCLOSURE - GATE SUPPORT
1" = 1'-0"



SLIDE BOLT (SWING GATE)

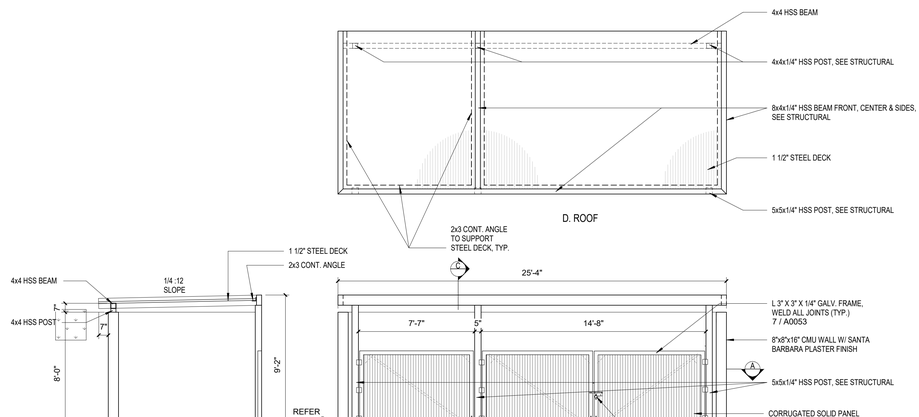


TOWER BOLT - SECTION



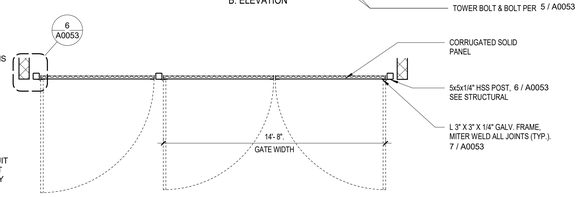
TOWER BOLT - ELEVATION

5 DETAILS @ TOWER BOLT, SLIDE BOLT
1" = 1'-0"

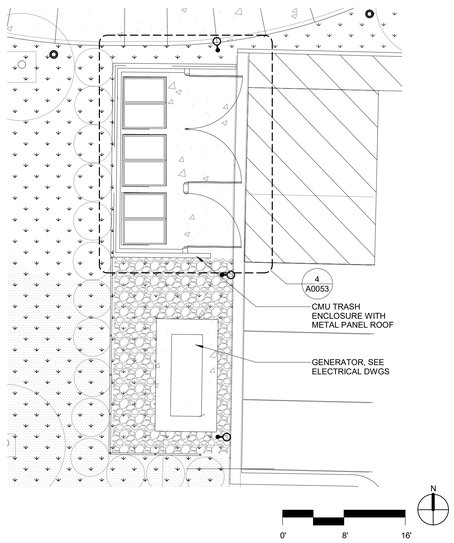


GATES AND GATE HARDWARE:

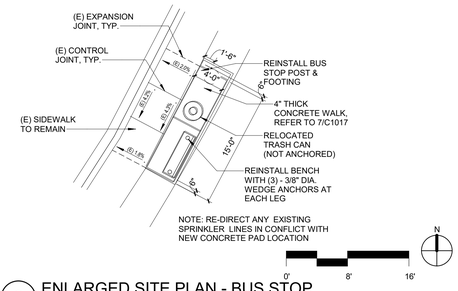
1. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR COMPLETE GATE FABRICATION. INCLUDE DEPTH AND DIMENSIONS FOR ALL ATTACHMENTS AND LOCKABLE LATCHING DEVICE. FOOTINGS PER STRUCTURAL.
2. GATES AND GATE POSTS SHALL SET INDEPENDENTLY FROM WALLS (TYP.)
3. GALVANIZE AND PAINT ALL METAL FINISHES, ALL TUBE STEEL POSTS, ALL GATES AND HARDWARE, INCLUDING ANCHORING, SLEEVES, AND CANE BOLT ACCESSORIES.
4. HINGES - MIN. 4" LONG HEAVY DUTY GALV. METAL (TYP.) TO SUIT SOLID PANEL GATE SIZE, NON-LIFT-OFF TYPE, OFFSET TO PERMIT 180 DEGREE GATE OPENING (TYP.), PROVIDE MIN. (3) HEAVY DUTY HINGES PER LEAF (TYP.) OR AS REQUIRED FOR SMOOTH OPERATION.
5. GATE STOP - CENTER GATE STOP SLEEVE (MIN. 2" LONG) OR FLUSH METAL PLATE WITH ANCHORS SET IN CONCRETE TO ENGAGE THE CENTER DROP BAR OR CANE BOLT.
6. PROVIDE LOCKABLE LATCHING DEVICE.



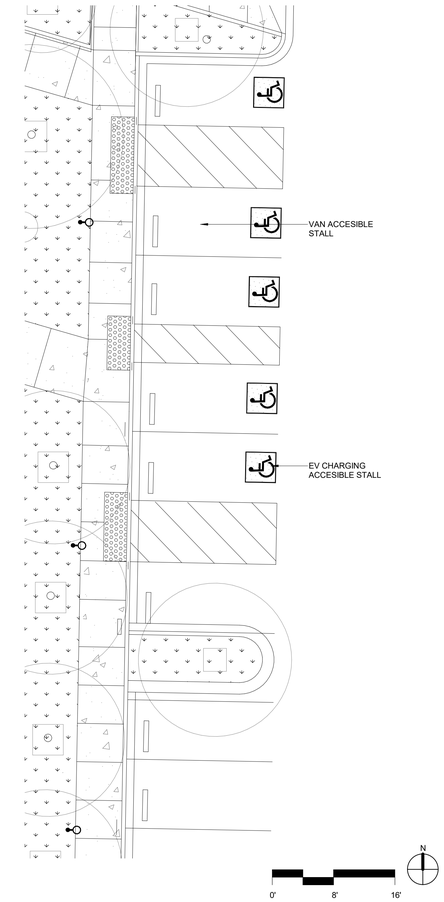
4 TRASH ENCLOSURE - METAL GATE
1/4" = 1'-0"



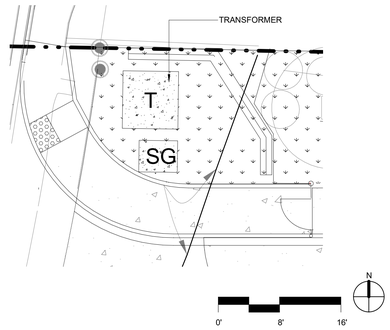
3 ENLARGED SITE PLAN - TRASH ENCLOSURE/GENERATOR
1/8" = 1'-0"



8 ENLARGED SITE PLAN - BUS STOP
1/8" = 1'-0"



2 ENLARGED SITE PLAN ACCESSIBLE PARKING
1/8" = 1'-0"



1 ENLARGED SITE PLAN - TRANSFORMER
1/8" = 1'-0"

KEYNOTES

LEGEND

LANDSCAPE, REFER TO LANDSCAPE DRAWINGS

FIRE HYDRANT, REFER TO CIVIL DRAWINGS

GENERAL NOTE

1. REFER TO LANDSCAPE AND CIVIL DRAWINGS FOR ADDITIONAL SITE WORK INFORMATION AND DIMENSIONING.

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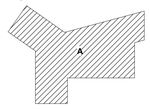
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KEY PLAN

Drawing Title:

ENLARGED SITE PLAN & TRASH ENCLOSURE DETAILS

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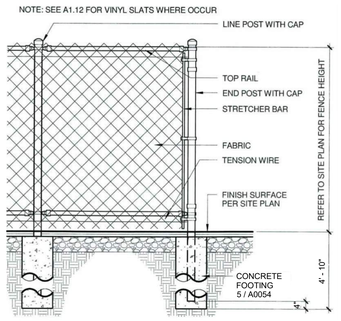
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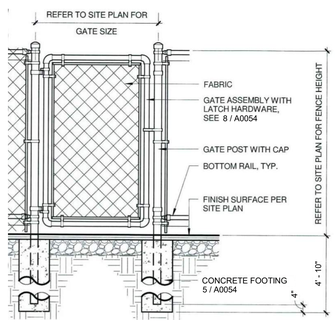
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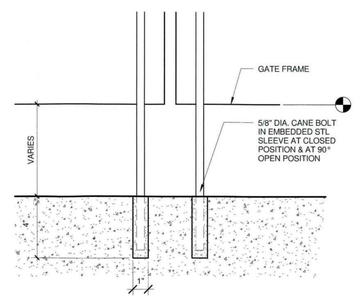
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11 CHAIN LINK FENCE
3" = 1'-0"

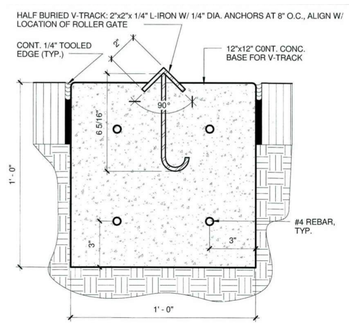


7 CHAIN LINK GATE
1/2" = 1'-0"

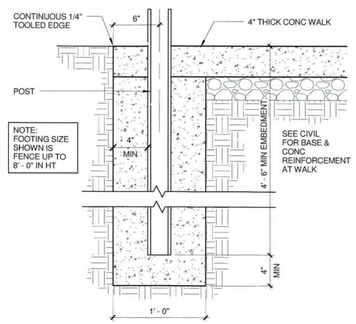


10 GATE LATCH
3" = 1'-0"

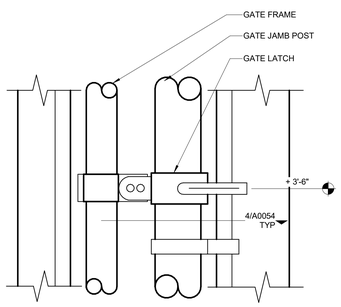
6 CANE BOLT
1 1/2" = 1'-0"



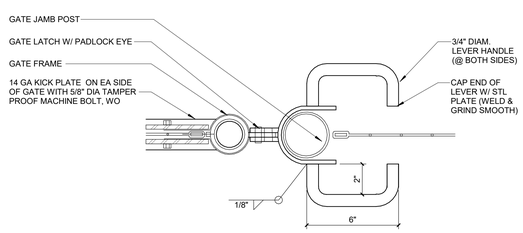
9 V-TRACK
3" = 1'-0"



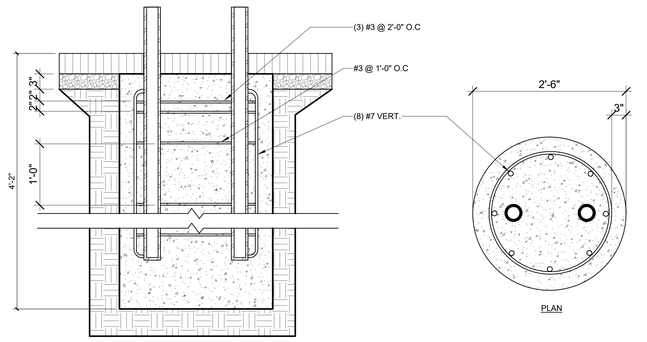
5 FENCE POST & FTG.
1 1/2" = 1'-0"



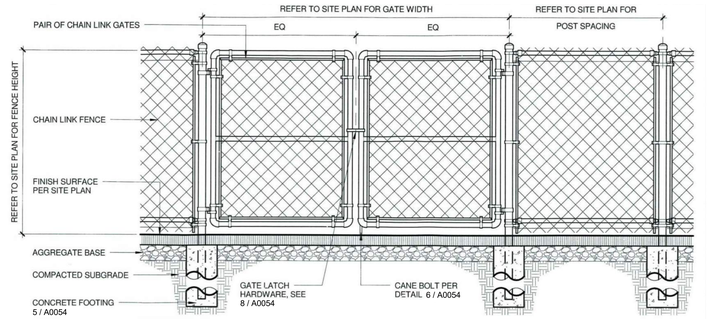
8 ACC. GATE LATCH
3" = 1'-0"



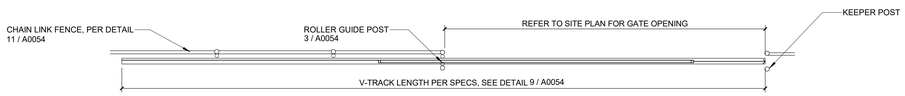
4 ACC. GATE LATCH PLAN
3" = 1'-0"

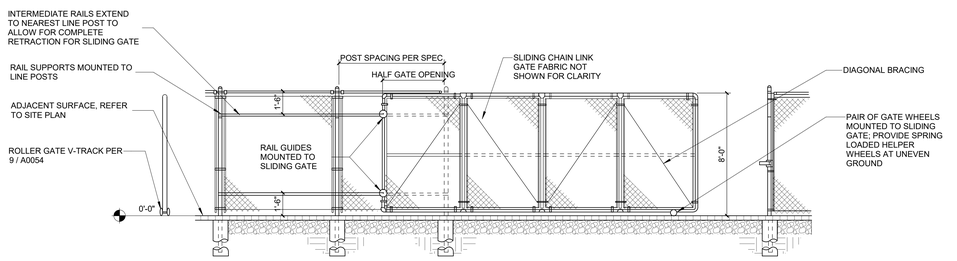


3 ROLLING GATE FOOTING
1" = 1'-0"



2 CHAIN LINK FENCE GATE
1/2" = 1'-0"





1 MANUAL ROLLING GATE
1/4" = 1'-0"

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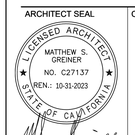
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ARCHITECT SEAL



CONSULTANT SEAL

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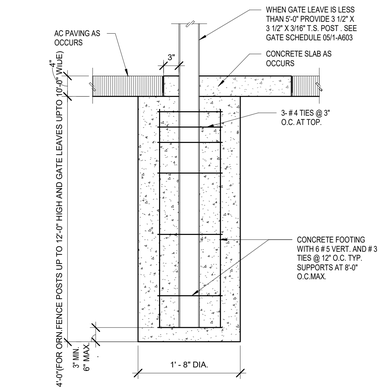
SITE DETAILS

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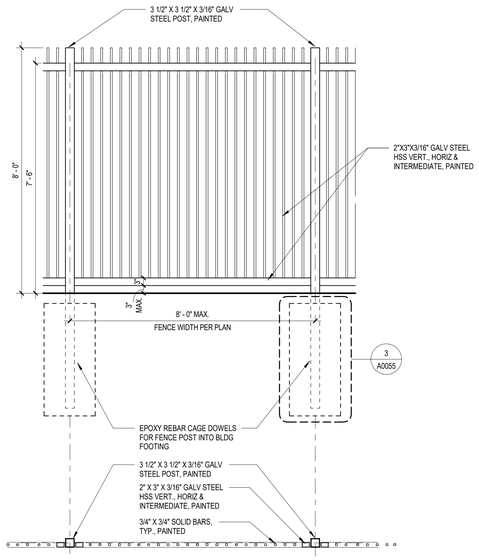
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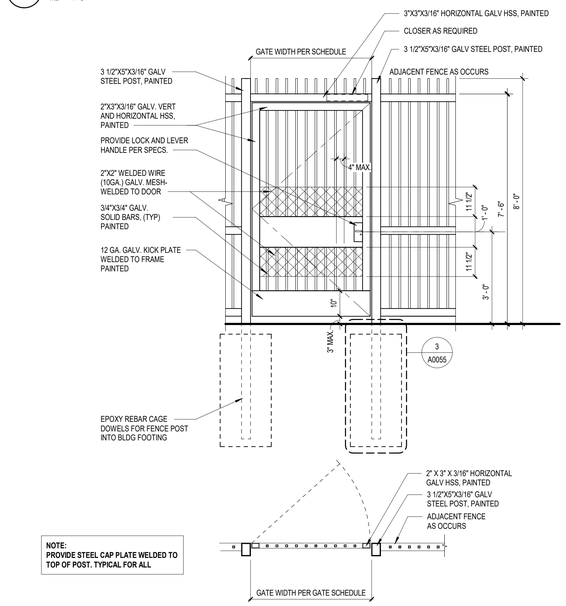
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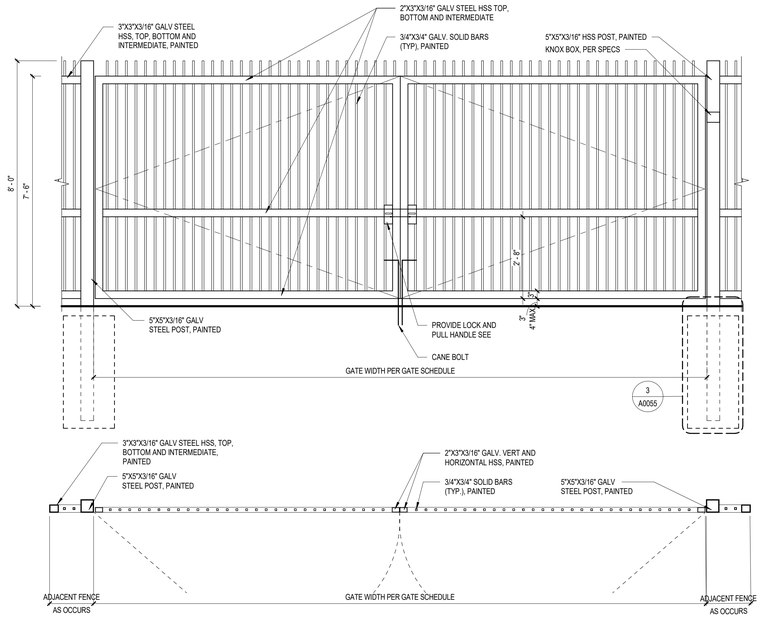
3 ORNAMENTAL FENCE FOOTING
1" = 1'-0"



2 MPR - OUTDOOR PLATFORM FENCE
1/2" = 1'-0"



NOTE:
PROVIDE STEEL CAP PLATE WELDED TO TOP OF POST. TYPICAL FOR ALL



4 FIRE ACCESS GATE (G-02) & ADJACENT MAN GATE (G-02a)
1/2" = 1'-0"

1 GATES G-01, G-05, M-G01 & M-G02 WITH PANIC
1/2" = 1'-0"

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MATTHEW S. GREINER
NO. C27137
REN.: 10-31-2023
STATE OF CALIFORNIA

CONSULTANT SEAL

Drawing Title:

SITE DETAILS

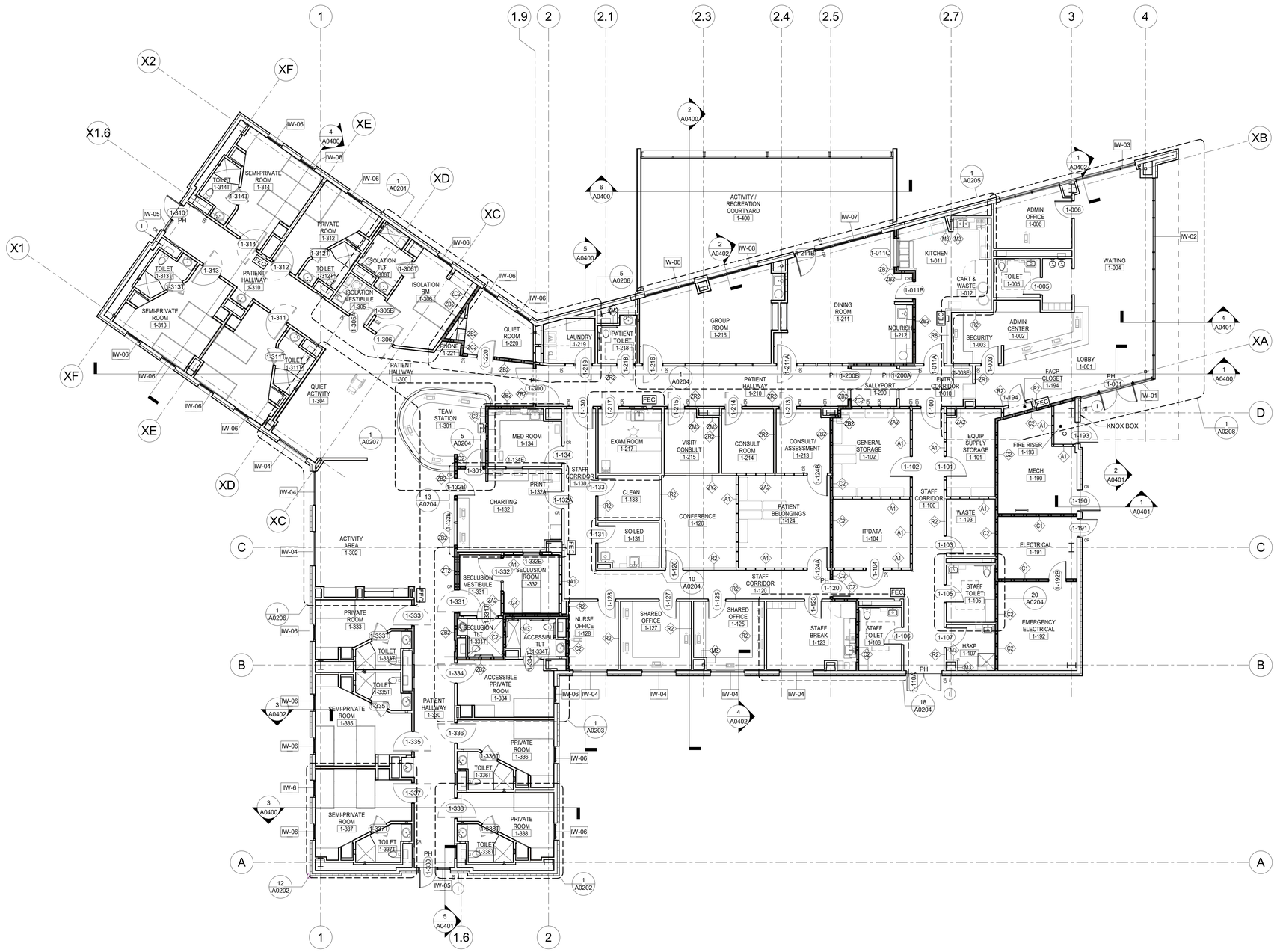
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1 LEVEL 01 PLAN
1/8" = 1'-0"

SHEET LEGEND

NOTE: REFER TO G0020 FOR ADDITIONAL WALL TYPE INFORMATION.

- NON-RATED PARTITION
- 2HR-RATED PARTITION
- 1HR-RATED PARTITION

GENERAL NOTES

1. PROVIDE ACCESS DOORS OF APPROPRIATE SIZE, TYPE AND FIRE RATING FOR ALL CONCEALED ITEMS THAT REQUIRE ADJUSTMENT, MAINTENANCE, MONITORING, ETC. COORDINATE LOCATIONS WITH ARCHITECT.
2. DO NOT DETERMINE DIMENSIONS AND SIZE OF THE GRAPHIC REPRESENTATIONS SHOWN ON THE DRAWINGS BY USING MEASURING DEVICES (DO NOT "SCALE"). RELY ON THE NUMERIC DIMENSIONS SHOWN ON THE DRAWINGS FOR MEASUREMENT. IF DIMENSIONS ARE NOT PROVIDED NOTIFY ARCHITECT FOR CLARIFICATION.
3. DIMENSIONS ARE TAKEN FROM CENTERLINE OF STRUCTURE, FACE OF PLASTER OR FINISHED FACE OF PARTITIONS, UNO. SEE PARTITION TYPES SHEETS A1001 AND A1002 FOR PARTITION DESCRIPTIONS.
4. CENTER ITEMS IN CEILING PANELS, UNO. REFER TO THE REFLECTED CEILING PLANS
5. REFER TO FINISH PLAN FOR FINISH PLAN SYMBOLS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AT THE SITE.
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LICENSED ARCHITECT
MATTHEW S. GREINER
NO. C27137
REN.: 10-31-2023
STATE OF CALIFORNIA

CONSULTANT SEAL

KEY PLAN

Drawing Title:

LEVEL 01 FLOOR PLAN

Issue Date: 01/21/2022
Project No.: 006240.00 Checked by: Checker

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1 LEVEL 01 DIMENSION PLAN
1/8" = 1'-0"

SHEET LEGEND

NOTE: REFER TO G0020 FOR ADDITIONAL WALL TYPE INFORMATION.

- NON-RATED PARTITION
- 1-HR RATED PARTITION
- 2-HR RATED PARTITION

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NO. C27137
REN.: 10-31-2023
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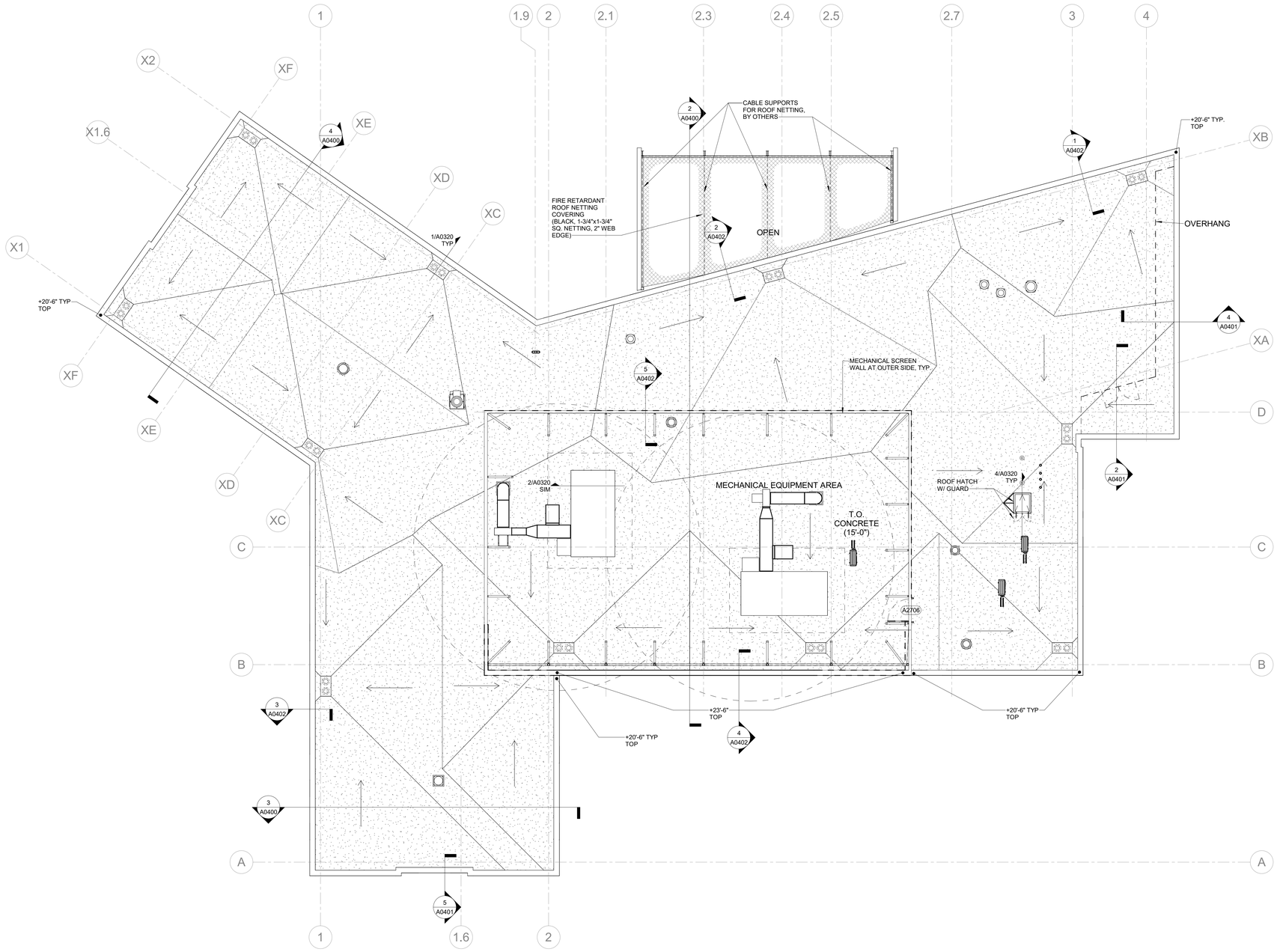
LEVEL 01 FLOOR PLAN - DIMENSIONS

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1 ROOF PLAN
1/8" = 1'-0"

SHEET LEGEND

ROOFING TYPES

	MONOLITHIC ROOF MEMBRANE SYSTEM OVER TAPERED INSULATION
	METAL MESH COVERING
xHP 0.0" / HP +0.0"	HIGH POINT OF TAPERED INSULATION (INCLUDES DENSDECK, SEE ASSEMBLY)
xLP 0.0" / LP +0.0"	LOW POINT OF TAPERED INSULATION (INCLUDES DENSDECK, SEE ASSEMBLY)
T.O.P.	TOP OF PARAPET ELEVATION
SLOPE 1/4" / FT	SLOPE OF TAPERED INSULATION

GENERAL NOTES

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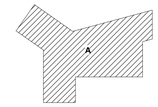
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NO. C27137
REN.: 10-31-2023
STATE OF CALIFORNIA

CONSULTANT SEAL



KEY PLAN

Drawing Title:

ROOF PLAN

Issue Date: 01/21/2022

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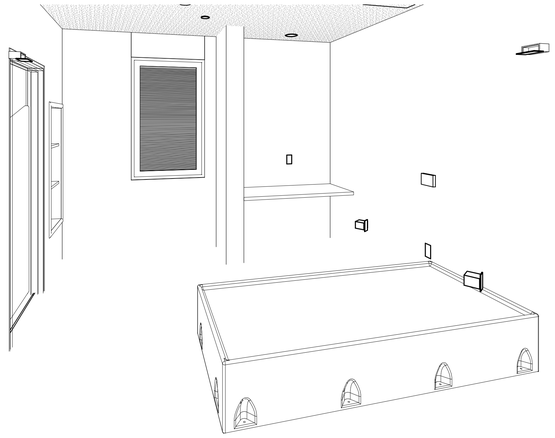
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KEYNOTES

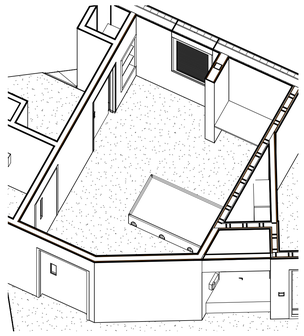
083453.A00	083453 - DOOR
083454.A00	083454 - DOOR
085113.B03	085113 - ALUMINUM WINDOW TYPE 1 PATIENT
102800.A05	102800 - GRAB BAR ANTI-LIGATURE GB-5 – 36"
102800.A06	102800 - GRAB BAR ANTI-LIGATURE GB-6 – 42"
102800.A07	102800 - GRAB BAR ANTI-LIGATURE GB-7-18"
102800.A08	102800 - GRAB BAR ANTI-LIGATURE GB-8 -SHOWER
102800.C01	102800 - SURFACE-MOUNTED PAPER TOWEL DISPENSER PTD-1
102800.C02	102800 - RECESSED PAPER TOWEL DISPENSER ANTI LIGATURE PTD-2
102800.E01	102800 - SURFACE-MOUNTED SOAP DISPENSER SD-1
102800.E02	102800 – RECESSED SOAP DISPENSER ANTI-LIGATURE SD-2
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CONSTRUCTION KEYED NOTES

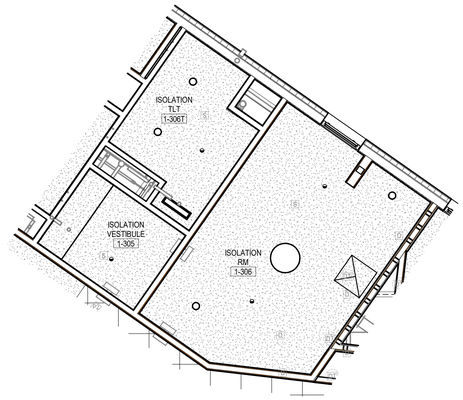
1	PROVIDE EXPANSION JOINT IN SOLID SURFACE AT START OF RADIUS
2	MILLWORK ACCESS PANEL LOCATIONS
3	SLOPE FLOOR OF ROOM TO FLOOR DRAIN
4	TRASH OPENING IN COUNTER. FINISH EDGE SIMILAR TO COUNTERTOP FRONT EDGE.
5	ADDITIONAL LAYER OF DRYWALL ON TOP OF SPECIFIED PARTITION TYPE. REFER TO ELEVATION AND DETAIL



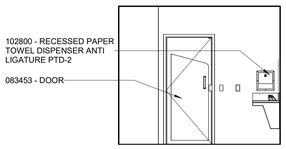
14 ISOLATION ROOM



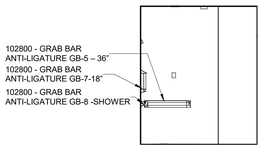
13 3D-ISO ISOLATION ROOM



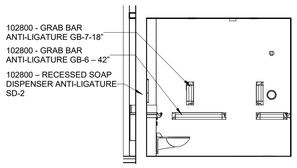
8 ISOLATION SUITE RCP
1/4" = 1'-0"



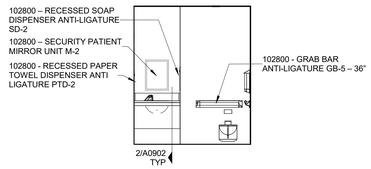
12 ISOLATION TOILET
1/4" = 1'-0"



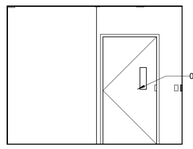
11 ISOLATION TOILET
1/4" = 1'-0"



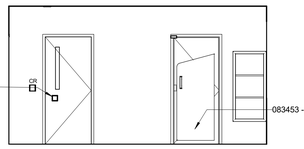
10 ISOLATION TOILET
1/4" = 1'-0"



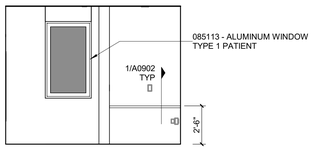
9 ISOLATION TOILET
1/4" = 1'-0"



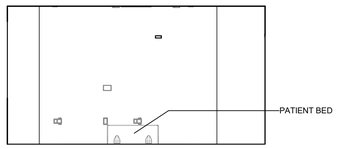
7 ISOLATION ROOM
1/4" = 1'-0"



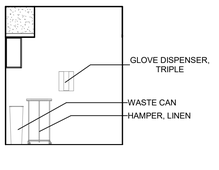
6 ISOLATION ROOM
1/4" = 1'-0"



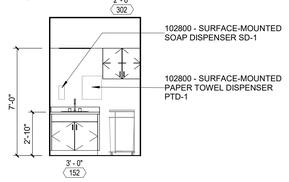
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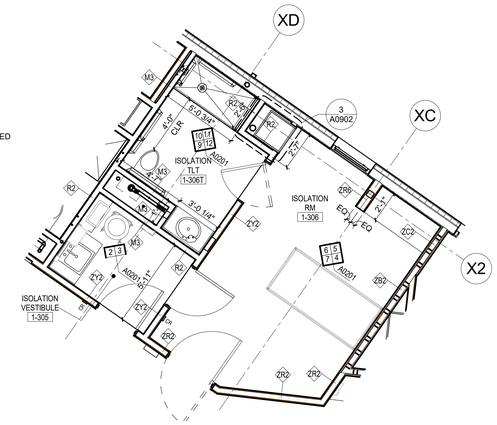
4 ISOLATION ROOM
1/4" = 1'-0"



3 ISOLATION VESTIBULE
1/4" = 1'-0"



2 ISOLATION VESTIBULE
1/4" = 1'-0"



1 ISOLATION SUITE ENLARGED PLAN
1/4" = 1'-0"

SYMBOLS

E	ELECTRICAL RECEPTACLE (2)
E	ELECTRICAL RECEPTACLE (4)
T	TELEPHONE OUTLET
P	WALL MOUNTED PHONE
D	DATA OUTLET
E/C	CABLE/ELECTRICAL OUTLET
SW	LIGHT SWITCH
E	NURSE CALL
FS	FIRE STROBE
T	THERMOSTAT
<Custom>	

GENERAL NOTES

1. ALL DIMENSIONS ARE FINISH DIMENSIONS UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS FOR MILLWORK ARE TO BE FIELD MEASURED AND VERIFIED BEFORE FABRICATION OF MILLWORK UNITS BEGINS.
3. ALL COUNTERTOPS @ SINK LOCATIONS TO BE SOLID SURFACE UNLESS NOTED OTHERWISE
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6. ALL CABINETS AND DRAWERS SHALL BE LOCKABLE.
7. ALL BASES TO BE 4" HIGH RESILIENT BASE UNLESS OTHERWISE NOTED. REFER TO THE ROOM FINISH SCHEDULE FOR ALL FINISHES.
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12. MORE THAN 5% OF LOCKERS ARE ACCESIBLE PER SEC. 11B-225.2.1
13. 50% OF STORAGE SHELVES (AS WELL AS KITCHEN DRAWERS) SHALL BE HC ACCESSIBLE. SECTION 11B-804.5

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ISSUE FOR PLAN REVIEW BACKCHECK	21 JAN 2022
ISSUE FOR PLAN REVIEW	27 OCT 2021
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ISSUE FOR GRADING PERMIT	03 DEC 2020

Rev.	Description	Date
	AGENCY APPROVAL	

ARCHITECT SEAL

LICENSED ARCHITECT
MATTHEW S. GREINER
NO. C27137
REN.: 10-31-2023
STATE OF CALIFORNIA

CONSULTANT SEAL

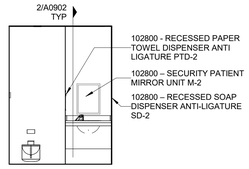
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PARTIAL ENLARGED PLAN

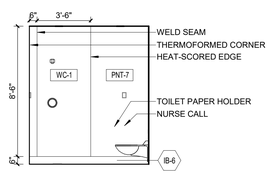
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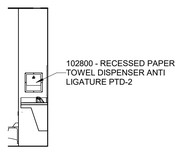
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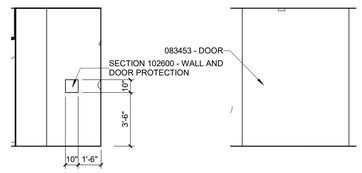
23 TOILET
1/4" = 1'-0"



22 TOILET
1/4" = 1'-0"

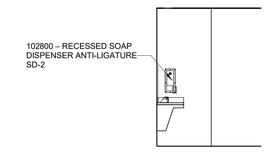


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1/4" = 1'-0"

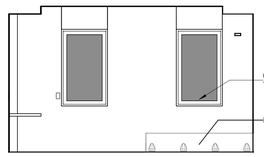


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1/4" = 1'-0"

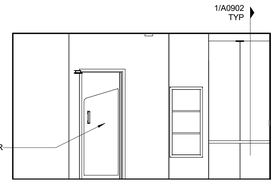
19 TOILET
1/4" = 1'-0"



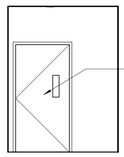
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1/4" = 1'-0"



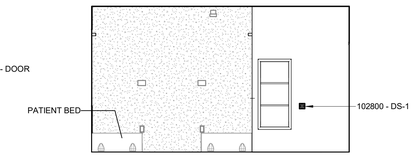
16 SEMI-PRIVATE ROOM
1/4" = 1'-0"



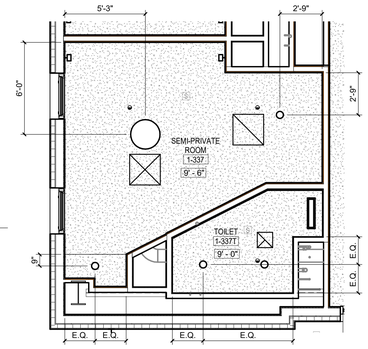
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1/4" = 1'-0"



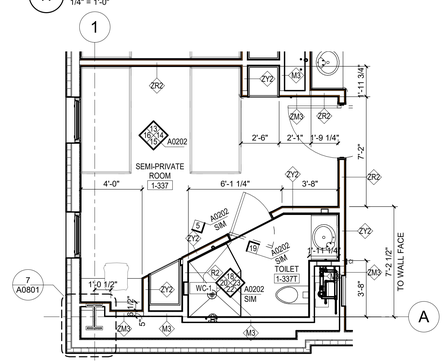
14 SEMI-PRIVATE ROOM
1/4" = 1'-0"



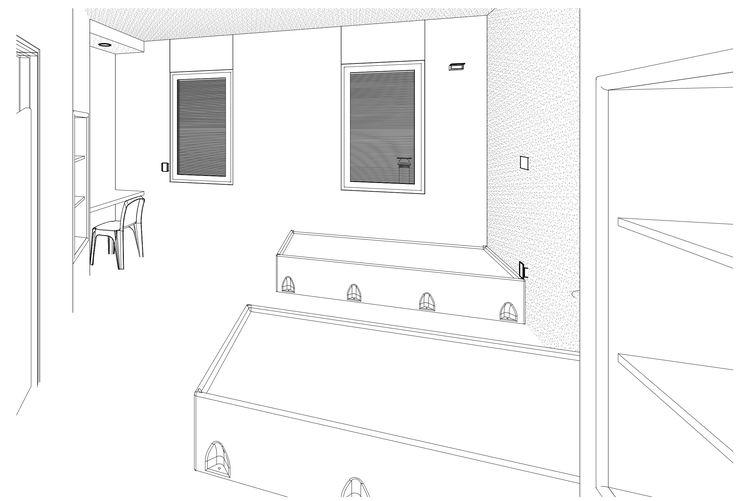
13 SEMI-PRIVATE ROOM
1/4" = 1'-0"



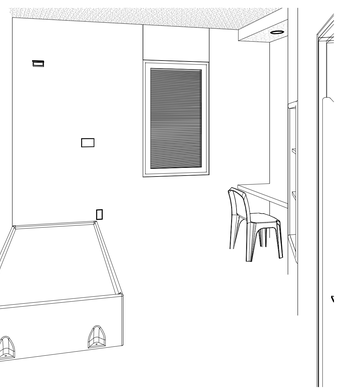
17 SEMI-PRIVATE ENLARGED RCP
1/4" = 1'-0"



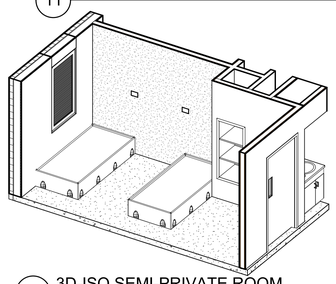
12 SEMI-PRIVATE ROOM ENLARGED PLAN
1/4" = 1'-0"



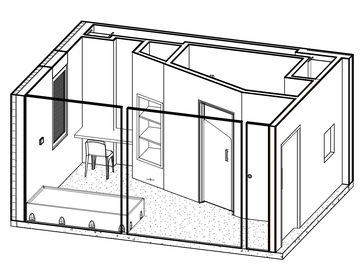
11 3D SEMI-PRIVATE ROOM



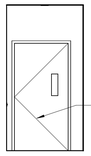
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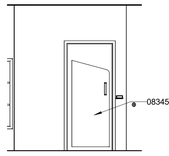
9 3D-ISO SEMI-PRIVATE ROOM



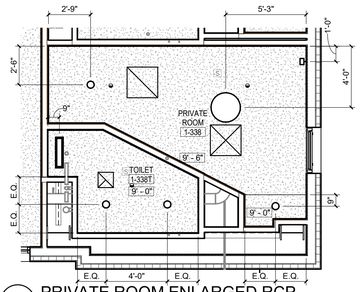
8 3D-ISO PRIVATE ROOM



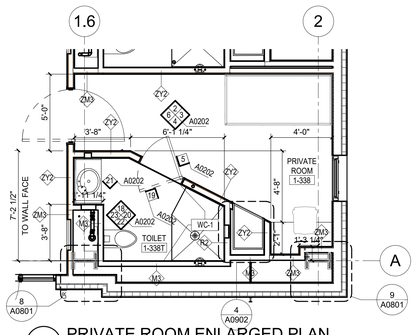
6 PRIVATE ROOM
1/4" = 1'-0"



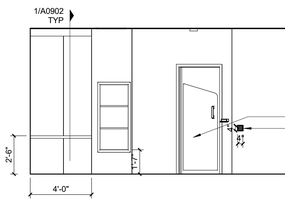
5 PRIVATE ROOM
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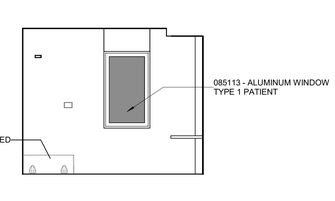
7 PRIVATE ROOM ENLARGED RCP
1/4" = 1'-0"



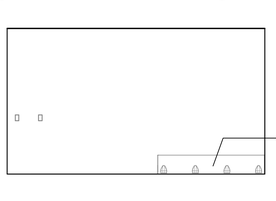
1 PRIVATE ROOM ENLARGED PLAN
1/4" = 1'-0"



4 PRIVATE ROOM
1/4" = 1'-0"



3 PRIVATE ROOM
1/4" = 1'-0"



2 PRIVATE ROOM
1/4" = 1'-0"

KEYNOTES

083453.A00	083453 - DOOR
083454.A00	083454 - DOOR
085113.B03	085113 - ALUMINUM WINDOW TYPE 1 PATIENT
102600	SECTION 102600 - WALL AND DOOR PROTECTION
102800.C02	102800 - RECESSED PAPER TOWEL DISPENSER ANTI LIGATURE PTD-2
102800.E02	102800 – RECESSED SOAP DISPENSER ANTI-LIGATURE SD-2
102800.F02	102800 – SECURITY PATIENT MIRROR UNIT M-2

CONSTRUCTION KEYED NOTES

1	PROVIDE EXPANSION JOINT IN SOLID SURFACE AT START OF RADIUS
2	MILLWORK ACCESS PANEL LOCATIONS
3	SLOPE FLOOR OF ROOM TO FLOOR DRAIN
4	TRASH OPENING IN COUNTER. FINISH EDGE SIMILAR TO COUNTERTOP FRONT EDGE.
5	ADDITIONAL LAYER OF DRYWALL ON TOP OF SPECIFIED PARTITION TYPE. REFER TO ELEVATION AND DETAIL

SYMBOLS

E	ELECTRICAL RECEPTACLE (2)
E	ELECTRICAL RECEPTACLE (4)
T	TELEPHONE OUTLET
P	WALL MOUNTED PHONE
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T	THERMOSTAT
<Custom>	

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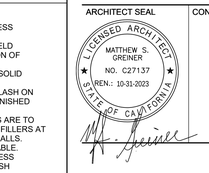
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ARCHITECT SEAL



CONSULTANT SEAL

Drawing Title:

PARTIAL ENLARGED PLAN

Issue Date: 01/21/2022
Project No.: 006240.00 Checked by: Checker

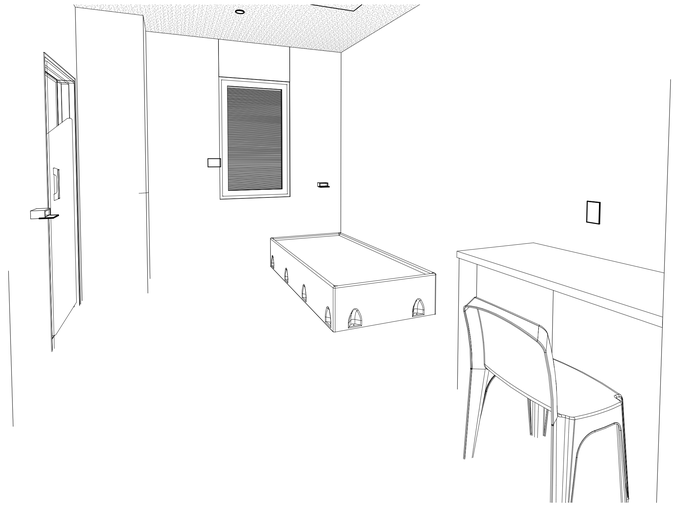
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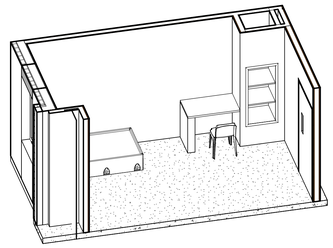
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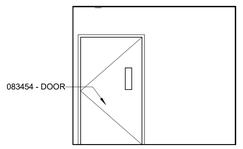
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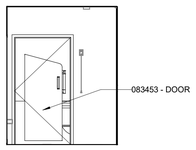


20 3D ACCESSIBLE PATIENT ROOM

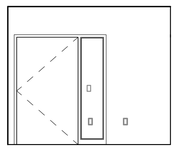
19 3D-ISO ACCESSIBLE PATIENT ROOM



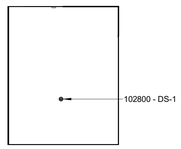
18 SECLUSION VESTIBULE
1/4" = 1'-0"



17 SECLUSION VESTIBULE
1/4" = 1'-0"



16 SECLUSION VESTIBULE
1/4" = 1'-0"



15 SECLUSION VESTIBULE
1/4" = 1'-0"

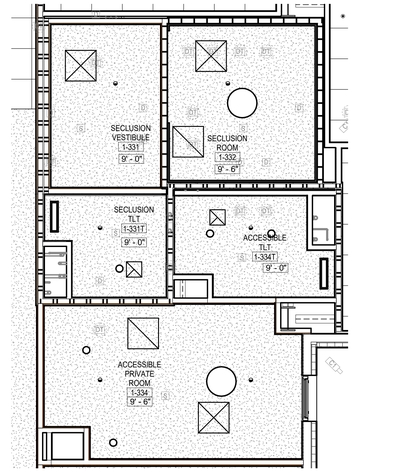


14 SECLUSION ROOM
1/4" = 1'-0"

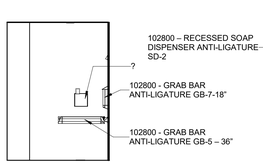
13 SECLUSION ROOM
1/4" = 1'-0"

12 SECLUSION ROOM
1/4" = 1'-0"

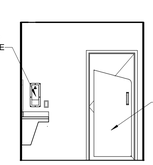
11 SECLUSION ROOM
1/4" = 1'-0"



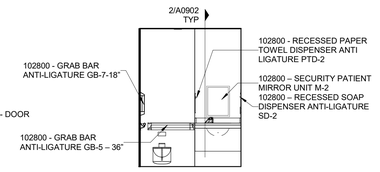
10 ACCESSIBLE PRIVATE & SECLUSION RCP
1/4" = 1'-0"



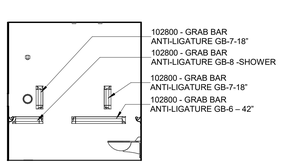
9 ACCESSIBLE TOILET
1/4" = 1'-0"



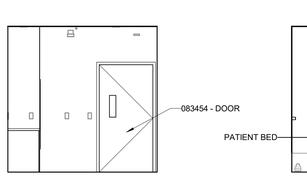
8 ACCESSIBLE TOILET
1/4" = 1'-0"



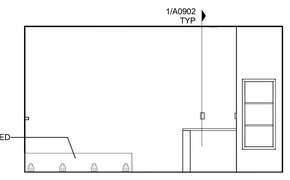
7 ACCESSIBLE TOILET
1/4" = 1'-0"



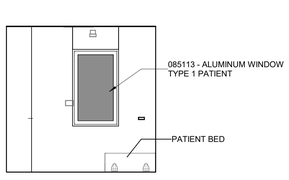
6 ACCESSIBLE TOILET
1/4" = 1'-0"



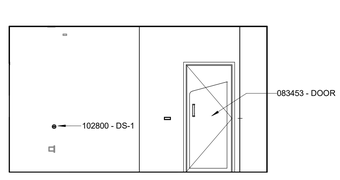
5 ACCESSIBLE PRIVATE
1/4" = 1'-0"



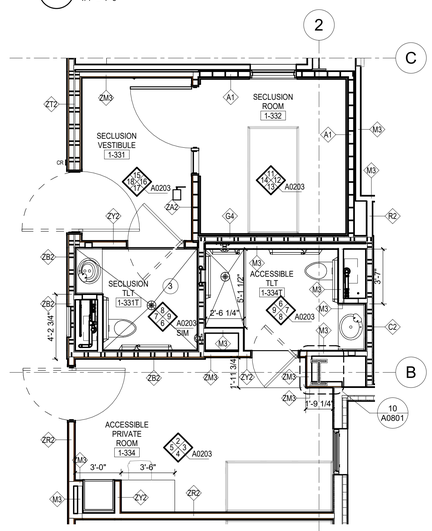
4 ACCESSIBLE PRIVATE
1/4" = 1'-0"



3 ACCESSIBLE PRIVATE
1/4" = 1'-0"



2 ACCESSIBLE PRIVATE
1/4" = 1'-0"



1 ACCESSIBLE PRIVATE & SECLUSION
1/4" = 1'-0"

KEYNOTES

083453.A00	083453 - DOOR
083454.A00	083454 - DOOR
085113.B03	085113 - ALUMINUM WINDOW TYPE 1 PATIENT
088000.A06	088000 - GLAZING GL4
102800.A05	102800 - GRAB BAR ANTI-LIGATURE GB-5 – 36"
102800.A06	102800 - GRAB BAR ANTI-LIGATURE GB-6 – 42"
102800.A07	102800 - GRAB BAR ANTI-LIGATURE GB-7-18"
102800.A08	102800 - GRAB BAR ANTI-LIGATURE GB-8 -SHOWER
102800.C02	102800 - RECESSED PAPER TOWEL DISPENSER ANTI LIGATURE PTD-2
102800.E02	102800 – RECESSED SOAP DISPENSER ANTI-LIGATURE SD-2
102800.F02	102800 – SECURITY PATIENT MIRROR UNIT M-2
117313.A00	117313 - PSYCHIATRIC SECLUSION ROOM WALL PADDING

CONSTRUCTION KEYED NOTES

1	PROVIDE EXPANSION JOINT IN SOLID SURFACE AT START OF RADIUS
2	MILLWORK ACCESS PANEL LOCATIONS
3	SLOPE FLOOR OF ROOM TO FLOOR DRAIN
4	TRASH OPENING IN COUNTER. FINISH EDGE SIMILAR TO COUNTERTOP FRONT EDGE.
5	ADDITIONAL LAYER OF DRYWALL ON TOP OF SPECIFIED PARTITION TYPE. REFER TO ELEVATION AND DETAIL

SYMBOLS

E	ELECTRICAL RECEPTACLE (2)
E	ELECTRICAL RECEPTACLE (4)
T	TELEPHONE OUTLET
P	WALL MOUNTED PHONE
D	DATA OUTLET
E/C	CABLE/ELECTRICAL OUTLET
SW	LIGHT SWITCH
E	NURSE CALL
FS	FIRE STROBE
T	THERMOSTAT
<Custom>	

GENERAL NOTES

1. ALL DIMENSIONS ARE FINISH DIMENSIONS UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS FOR MILLWORK ARE TO BE FIELD MEASURED AND VERIFIED BEFORE FABRICATION OF MILLWORK UNITS BEGINS.
3. ALL COUNTERTOPS @ SINK LOCATIONS TO BE SOLID SURFACE UNLESS NOTED OTHERWISE
4. ALL COUNTERTOPS ARE TO HAVE A 4" BACKSPLASH ON ALL SIDES WHERE THE COUNTERTOPS ABUT FINISHED WALLS UNLESS OTHERWISE NOTED.
5. ALL MILLWORK UNITS THAT ABUT FINISH WALLS ARE TO HAVE 1" MINIMUM PLASTIC LAMINATE FINISHED FILLERS AT WALLS. FILLERS ARE TO BE SCRIBED TO THE WALLS.
6. ALL CABINETS AND DRAWERS SHALL BE LOCKABLE.
7. ALL BASES TO BE 4" HIGH RESILIENT BASE UNLESS OTHERWISE NOTED. REFER TO THE ROOM FINISH SCHEDULE FOR ALL FINISHES.
8. WHERE OUTLETS AND/OR RECEPTACLES ARE CALLED OUT BELOW COUNTERTOPS, 2" DIAMETER SLOTS IN THE COUNTERTOP SHALL BE PROVIDED IN THE BACK OF THE COUNTERTOP FOR CORD ACCESS. FINISH ALL SLOTS WITH GROMMETS.
9. TYPICAL SWITCH AND RECEPTACLE LOCATIONS ARE INDICATED AT INTERIOR ELEVATIONS, BUT DO NOT REPRESENT TOTAL QUANTITIES OR INDIVIDUAL TYPES, AT THESE LOCATION. REFER TO MOUNTING HEIGHT REQUIREMENTS. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR COMPREHENSIVE FIXTURE AND/OR DEVICE QUANTITIES AND LOCATIONS.
10. ALL RECEPTACLES AND OUTLETS BELOW COUNTER HEIGHT ARE TO BE MOUNTED 18" AFF TO CENTERLINE OF DEVICE UNLESS OTHERWISE NOTED.
11. ALL RECEPTACLES AND OUTLETS ABOVE COUNTER HEIGHT ARE TO BE MOUNTED 6" ABOVE TOP OF COUNTER OR 6" ABOVE BACKSPLASH (WHERE OCCURS) TO CENTERLINE OF DEVICE UNLESS OTHERWISE NOTED.
12. MORE THAN 5% OF LOCKERS ARE ACCESIBLE PER SEC. 11B-225.2.1
13. 50% OF STORAGE SHELVES (AS WELL AS KITCHEN DRAWERS) SHALL BE HC ACCESSIBLE. SECTION 11B-804.5

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Psychiatric Health
Facility

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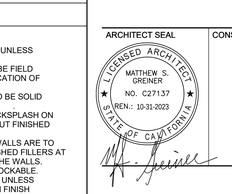
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3131 Camino Del Rio N, Suite 1080
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GroundLevel Landscape Architecture, Inc.
Landscape Architect
2605 State Street, Suite B
San Diego, CA 92103
619.325.1990

	ISSUE FOR PLAN REVIEW BACKCHECK	21 JAN 2022
	ISSUE FOR PLAN REVIEW	27 OCT 2021
	ISSUE FOR PLANNING	15 DEC 2020
	ISSUE FOR GRADING PERMIT	03 DEC 2020

Rev.	Description	Date
	AGENCY APPROVAL	

ARCHITECT SEAL



CONSULTANT SEAL

Drawing Title:

PARTIAL ENLARGED PLAN

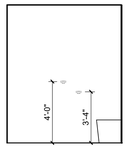
Issue Date: 01/21/2022

Project No.: 006240.00 Checked by: Checker

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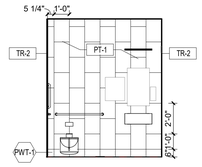
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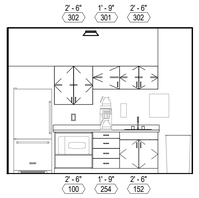
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1/4" = 1'-0"



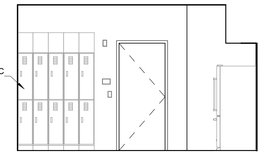
24 STAFF TOILET
1/4" = 1'-0"



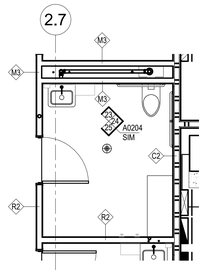
23 STAFF TOILET
1/4" = 1'-0"



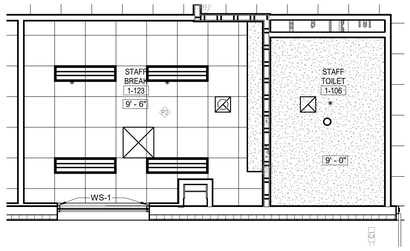
22 STAFF BREAK
1/4" = 1'-0"



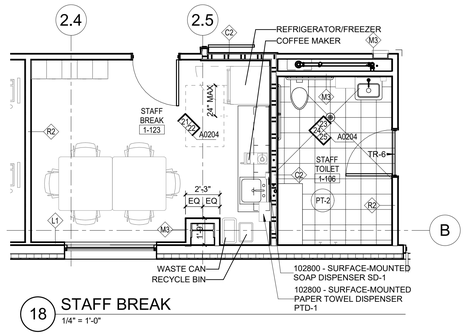
21 STAFF BREAK
1/4" = 1'-0"



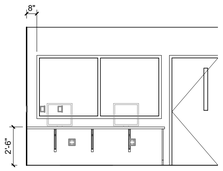
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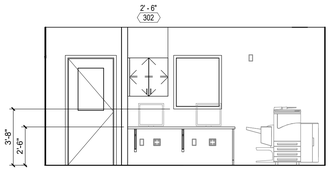
19 STAFF BREAK RCP
1/4" = 1'-0"



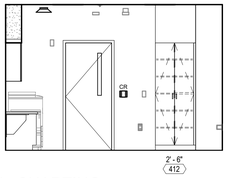
18 STAFF BREAK
1/4" = 1'-0"



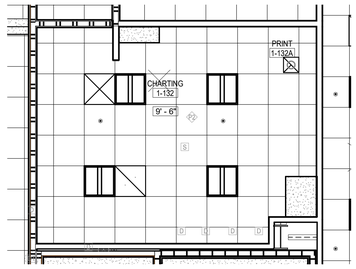
17 CHARTING
1/4" = 1'-0"



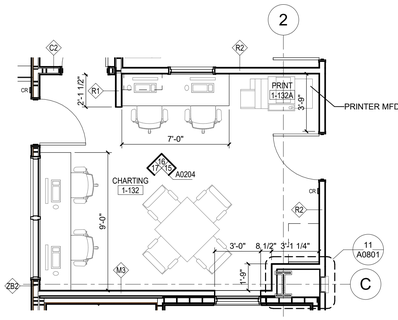
16 CHARTING
1/4" = 1'-0"



15 CHARTING
1/4" = 1'-0"

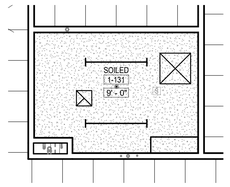


14 CHARTING RCP
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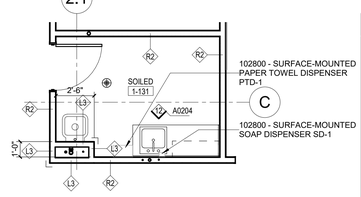


13 CHARTING
1/4" = 1'-0"

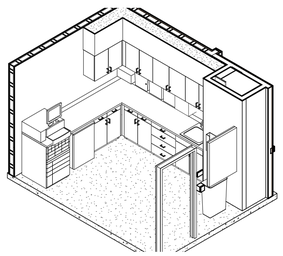
12 SOILED HOLDING
1/4" = 1'-0"



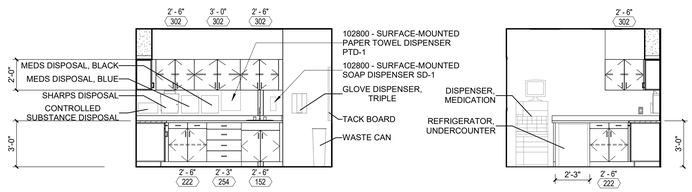
11 SOILED RCP
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10 SOILED
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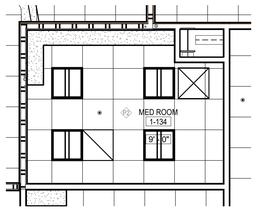


9 3D-ISO MED ROOM

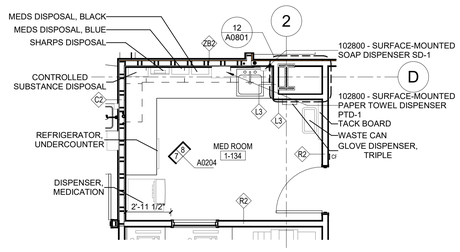


8 MED ROOM
1/4" = 1'-0"

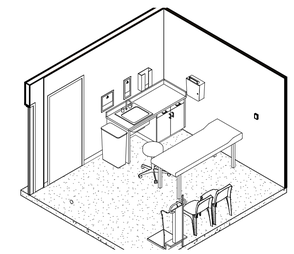
7 MED ROOM
1/4" = 1'-0"



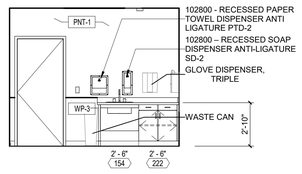
6 MED ROOM RCP
1/4" = 1'-0"



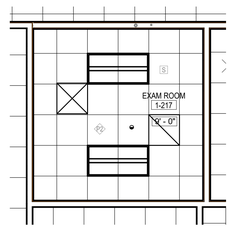
5 MED ROOM
1/4" = 1'-0"



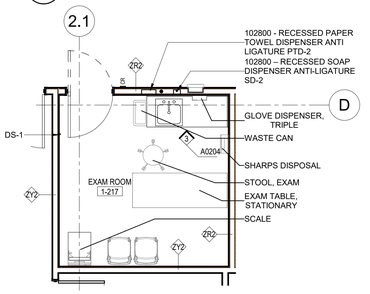
4 3D-ISO EXAM ROOM



3 EXAM ROOM - W
1/4" = 1'-0"



2 EXAM ROOM RCP
1/4" = 1'-0"



1 EXAM ROOM
1/4" = 1'-0"

KEYNOTES

102800.C01	102800 - SURFACE-MOUNTED PAPER TOWEL DISPENSER PTD-1
102800.C02	102800 - RECESSED PAPER TOWEL DISPENSER ANTI LIGATURE PTD-2
102800.E01	102800 - SURFACE-MOUNTED SOAP DISPENSER SD-1
102800.E02	102800 – RECESSED SOAP DISPENSER ANTI-LIGATURE SD-2
105125.A00	105125 – SOLID PHENOLIC LOCKERS

CONSTRUCTION KEYED NOTES

1	PROVIDE EXPANSION JOINT IN SOLID SURFACE AT START OF RADIUS
2	MILLWORK ACCESS PANEL LOCATIONS
3	SLOPE FLOOR OF ROOM TO FLOOR DRAIN
4	TRASH OPENING IN COUNTER. FINISH EDGE SIMILAR TO COUNTERTOP FRONT EDGE.
5	ADDITIONAL LAYER OF DRYWALL ON TOP OF SPECIFIED PARTITION TYPE. REFER TO ELEVATION AND DETAIL

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<Custom>	

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LICENSED ARCHITECT
MATTHEW S. GREINER
NO. C27137
REN.: 10-31-2023
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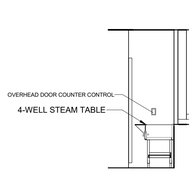
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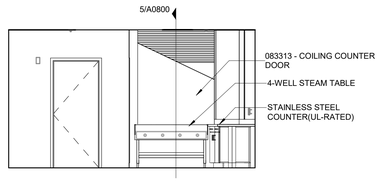
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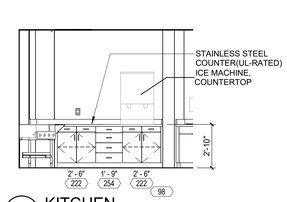
11 3D DINING ROOM



10 KITCHEN
1/4" = 1'-0"

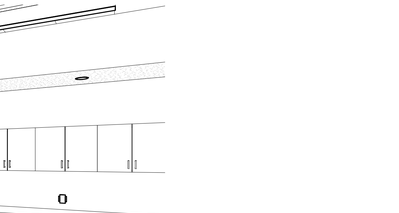


9 KITCHEN
1/4" = 1'-0"



8 KITCHEN
1/4" = 1'-0"

7 KITCHEN
1/4" = 1'-0"



6 KITCHEN
1/4" = 1'-0"

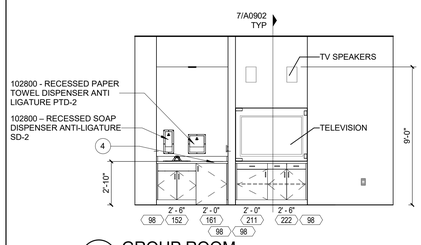
5 GROUP ROOM/DINING ROOM/KITCHEN RCP
1/4" = 1'-0"



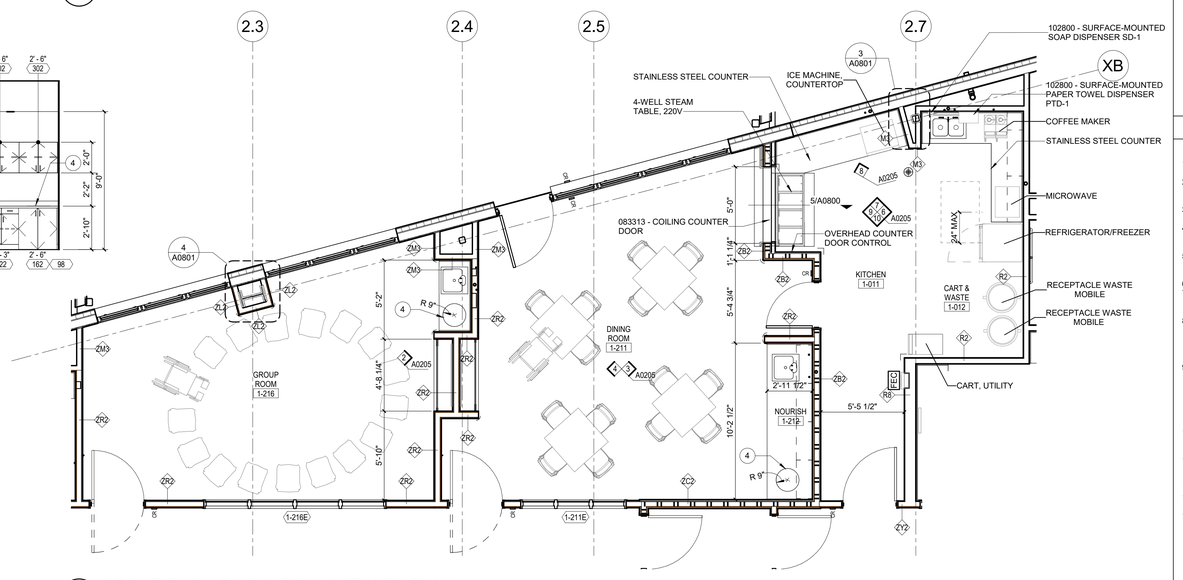
4 DINING ROOM
1/4" = 1'-0"



3 DINING ROOM
1/4" = 1'-0"



2 GROUP ROOM
1/4" = 1'-0"



1 GROUP ROOM/DINING ROOM/KITCHEN PLAN
1/4" = 1'-0"

KEYNOTES

064023.L05	064023 - SOLID SURFACE COUNTERTOP
083313.A00	083313 - COILING COUNTER DOOR
102800.C01	102800 - SURFACE-MOUNTED PAPER TOWEL DISPENSER PTD-1
102800.C02	102800 - RECESSED PAPER TOWEL DISPENSER ANTI LIGATURE PTD-2
102800.E01	102800 - SURFACE-MOUNTED SOAP DISPENSER SD-1
102800.E02	102800 – RECESSED SOAP DISPENSER ANTI-LIGATURE SD-2

CONSTRUCTION KEYED NOTES

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SYMBOLS

E	ELECTRICAL RECEPTACLE (2)
E	ELECTRICAL RECEPTACLE (4)
T	TELEPHONE OUTLET
P	WALL MOUNTED PHONE
D	DATA OUTLET
E/C	CABLE/ELECTRICAL OUTLET
SW	LIGHT SWITCH
E	NURSE CALL
FS	FIRE STROBE
T	THERMOSTAT
<Custom>	

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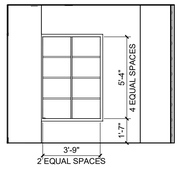
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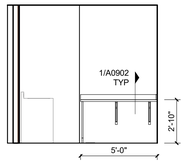
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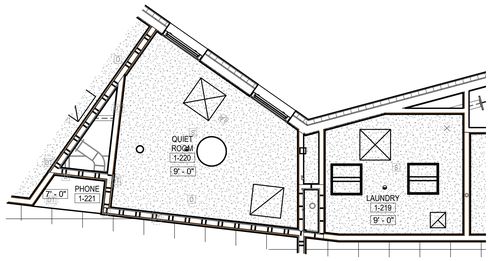
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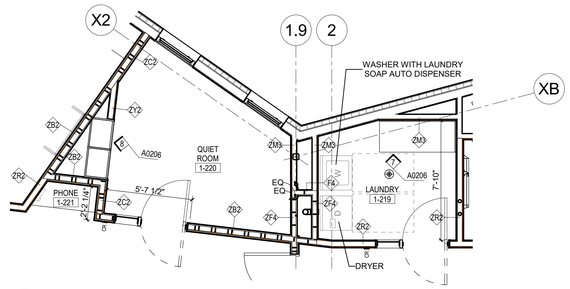
8 QUIET ROOM
1/4" = 1'-0"



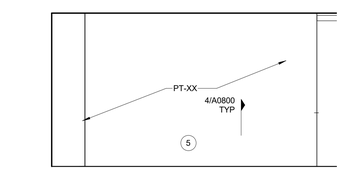
7 LAUNDRY
1/4" = 1'-0"



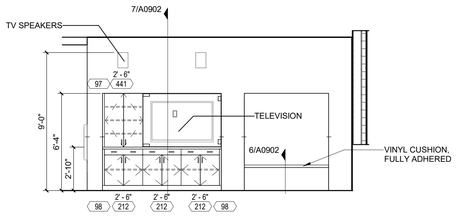
6 LAUNDRY & QUIET ROOM RCP
1/4" = 1'-0"



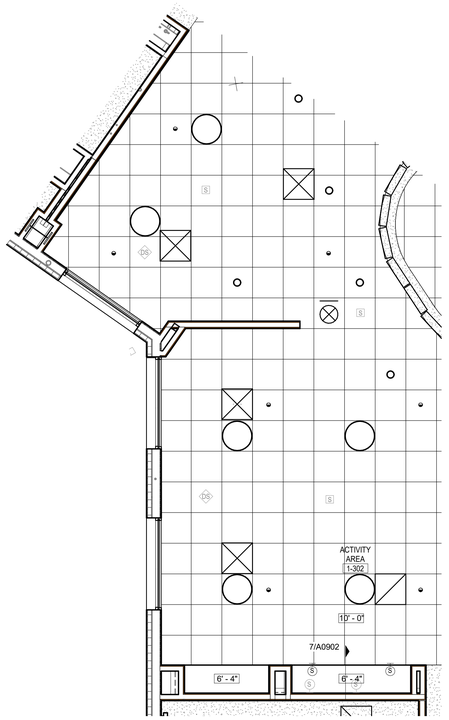
5 LAUNDRY & QUIET ROOM
1/4" = 1'-0"



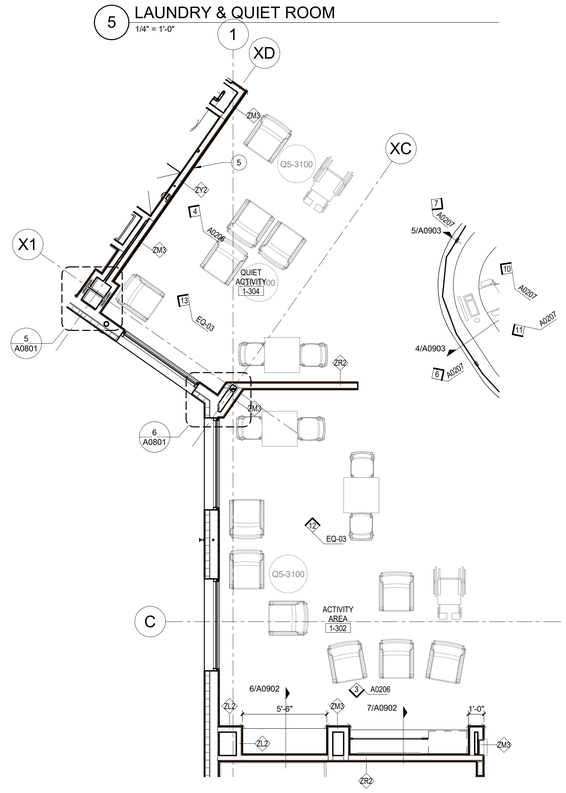
4 QUIET ACTIVITY
1/4" = 1'-0"



3 ACTIVITY AREA
1/4" = 1'-0"



2 ACTIVITY AREA RCP
1/4" = 1'-0"



1 ACTIVITY AREA PLAN
1/4" = 1'-0"

KEYNOTES

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- FS ▯ FIRE STROBE
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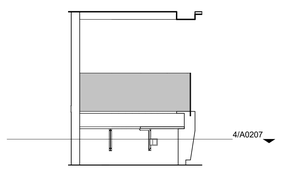
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KEYNOTES

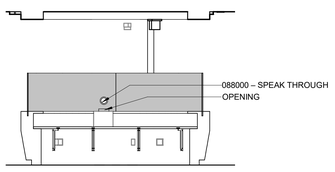
064023.H09	064023 - COUNTER SUPPORT BRACKET
088000.E02	088000 – SPEAK THROUGH
102800.C01	102800 - SURFACE-MOUNTED PAPER TOWEL DISPENSER PTD-1
102800.E01	102800 - SURFACE-MOUNTED SOAP DISPENSER SD-1

CONSTRUCTION KEYED NOTES

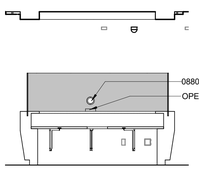
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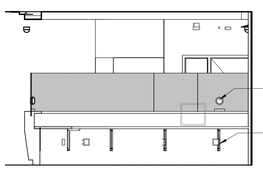
12 TEAM STATION
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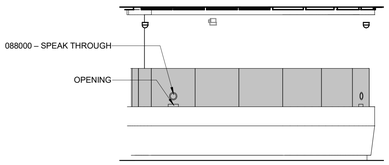
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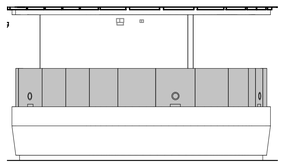
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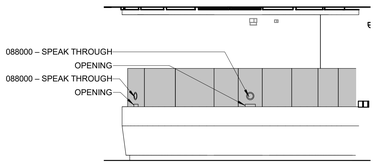
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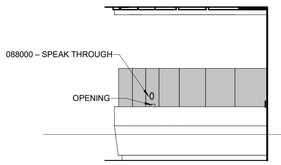
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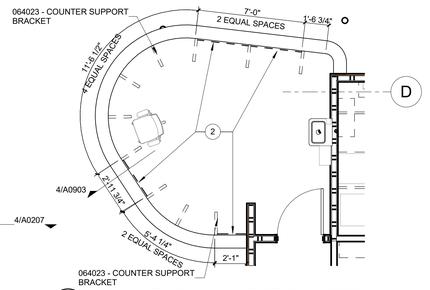
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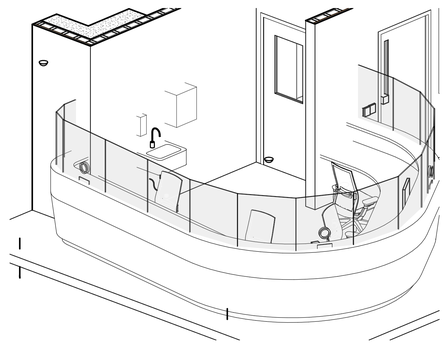
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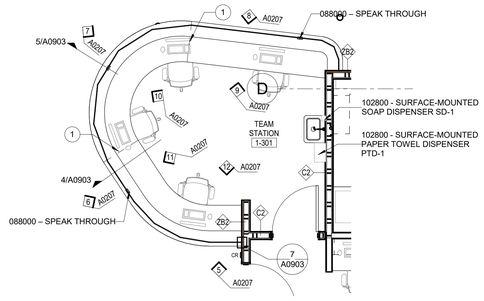
4 TEAM STATION - UNDERCOUNTER
1/4" = 1'-0"



3 3D VIEW FROM NURSE STATION



2 3D-ISO TEAM STATION



1 TEAM STATION
1/4" = 1'-0"

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<Custom>	

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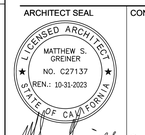
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Rev.	Description	Date
	AGENCY APPROVAL	

ARCHITECT SEAL



CONSULTANT SEAL

Drawing Title:

PARTIAL ENLARGED PLAN

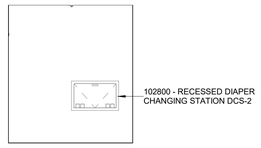
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Project No.: 006240.00 Checked by: Checker

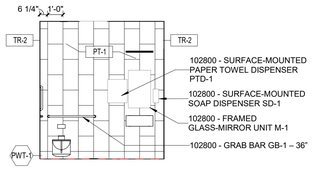
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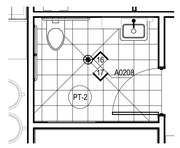
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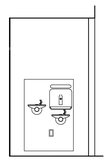
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1/4" = 1'-0"



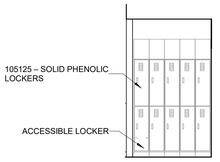
16 PUBLIC TOILET
1/4" = 1'-0"



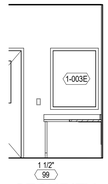
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1/4" = 1'-0"



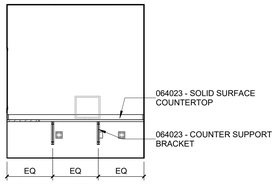
14 WAITING
1/4" = 1'-0"



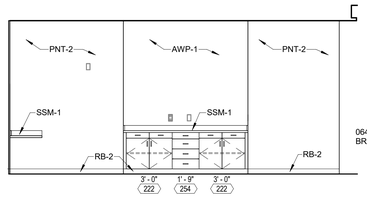
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1/4" = 1'-0"



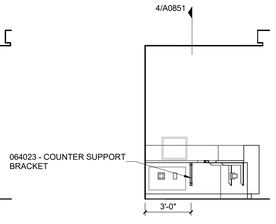
12 SECURITY
1/4" = 1'-0"



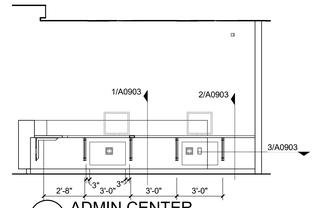
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1/4" = 1'-0"



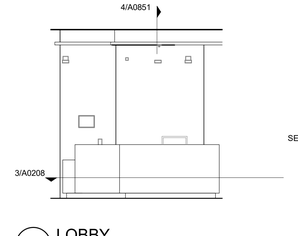
10 ADMIN CENTER
1/4" = 1'-0"



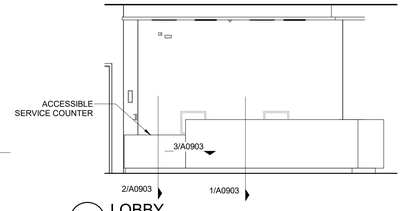
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1/4" = 1'-0"



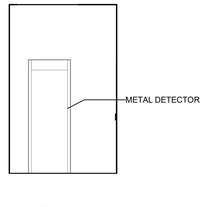
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1/4" = 1'-0"



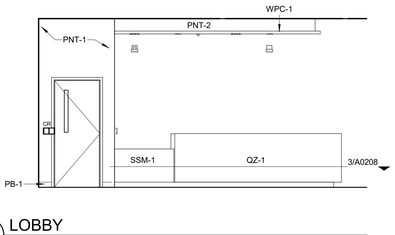
7 LOBBY
1/4" = 1'-0"



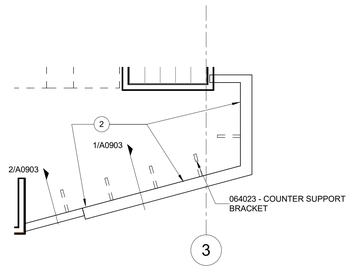
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1/4" = 1'-0"



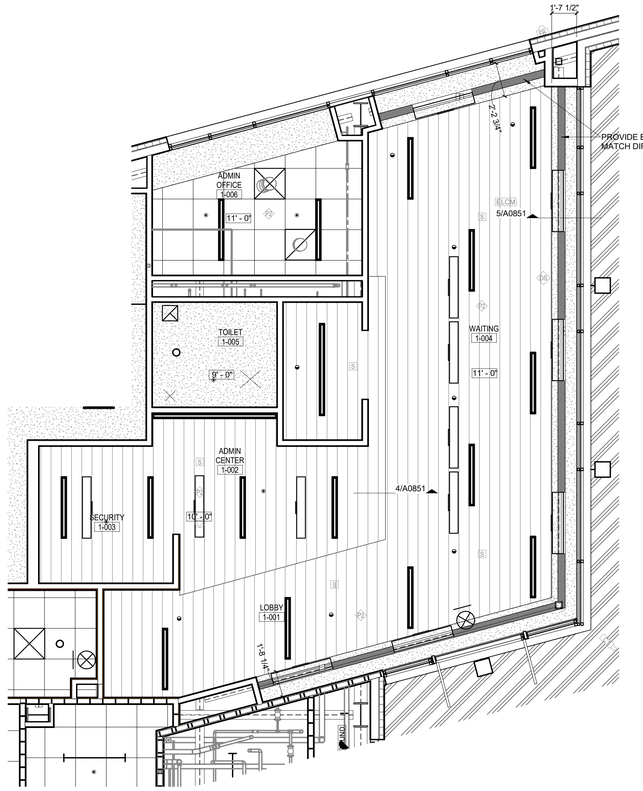
5 LOBBY
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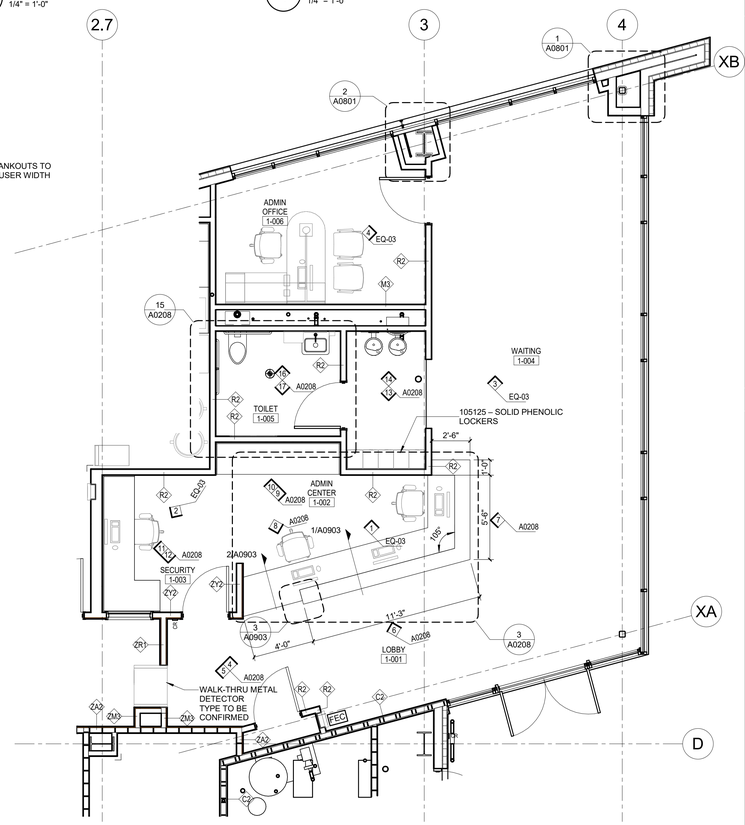
4 LOBBY
1/4" = 1'-0"



3 ADMIN DESK - UNDERCOUNTER
1/4" = 1'-0"



2 LOBBY/ WAITING RCP
1/4" = 1'-0"



1 LOBBY/ WAITING
1/4" = 1'-0"

KEYNOTES

064023.H09	064023 - COUNTER SUPPORT BRACKET
064023.L05	064023 - SOLID SURFACE COUNTERTOP
102800.A01	102800 - GRAB BAR GB-1 – 36"
102800.C01	102800 - SURFACE-MOUNTED PAPER TOWEL DISPENSER PTD-1
102800.E01	102800 - SURFACE-MOUNTED SOAP DISPENSER SD-1
102800.F01	102800 - FRAMED GLASS-MIRROR UNIT M-1
102800.H02	102800 - RECESSED DIAPER CHANGING STATION DCS-2
105125.A00	105125 – SOLID PHENOLIC LOCKERS

CONSTRUCTION KEYED NOTES

1	PROVIDE EXPANSION JOINT IN SOLID SURFACE AT START OF RADIUS
2	MILLWORK ACCESS PANEL LOCATIONS
3	SLOPE FLOOR OF ROOM TO FLOOR DRAIN
4	TRASH OPENING IN COUNTER. FINISH EDGE SIMILAR TO COUNTERTOP FRONT EDGE.
5	ADDITIONAL LAYER OF DRYWALL ON TOP OF SPECIFIED PARTITION TYPE. REFER TO ELEVATION AND DETAIL

SYMBOLS

E	ELECTRICAL RECEPTACLE (2)
E	ELECTRICAL RECEPTACLE (4)
T	TELEPHONE OUTLET
P	WALL MOUNTED PHONE
D	DATA OUTLET
E/C	CABLE/ELECTRICAL OUTLET
SW	LIGHT SWITCH
E	NURSE CALL
FS	FIRE STROBE
T	THERMOSTAT
<Custom>	

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LICENSED ARCHITECT
MATTHEW S. GREINER
NO. C27137
REN.: 10-31-2023
STATE OF CALIFORNIA

CONSULTANT SEAL

Drawing Title:

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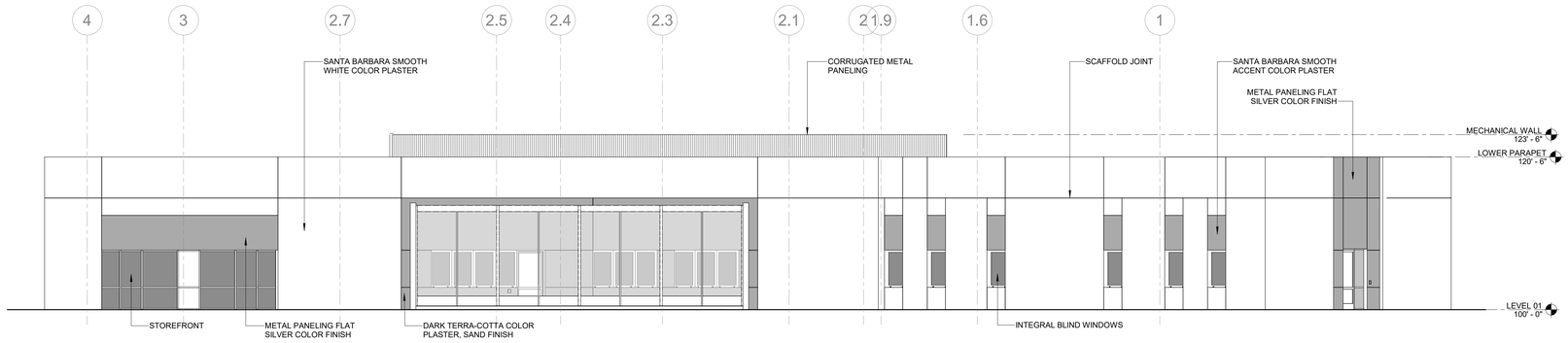
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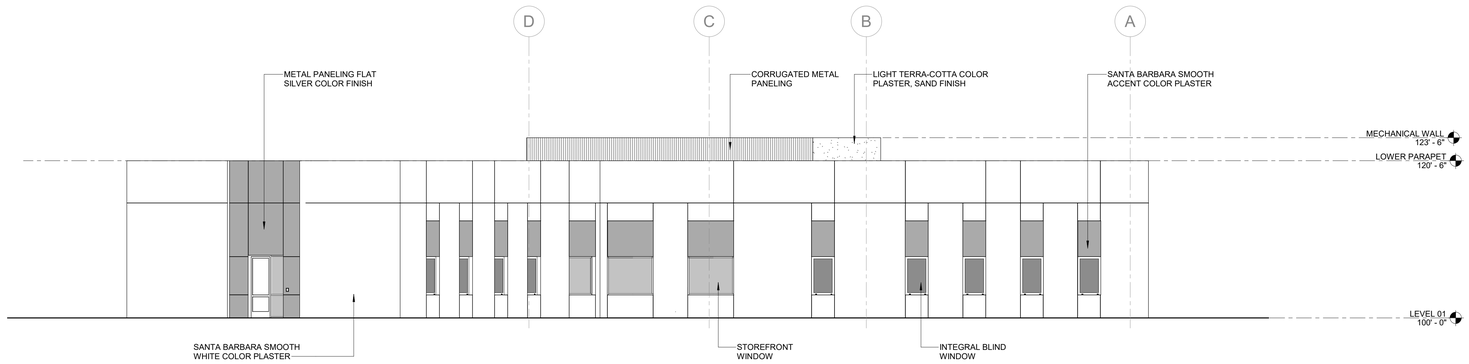
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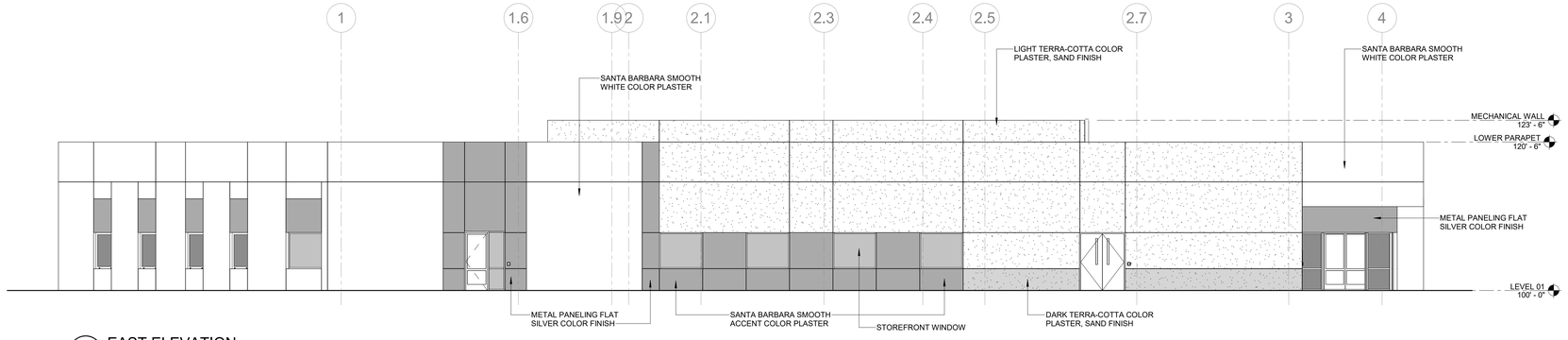
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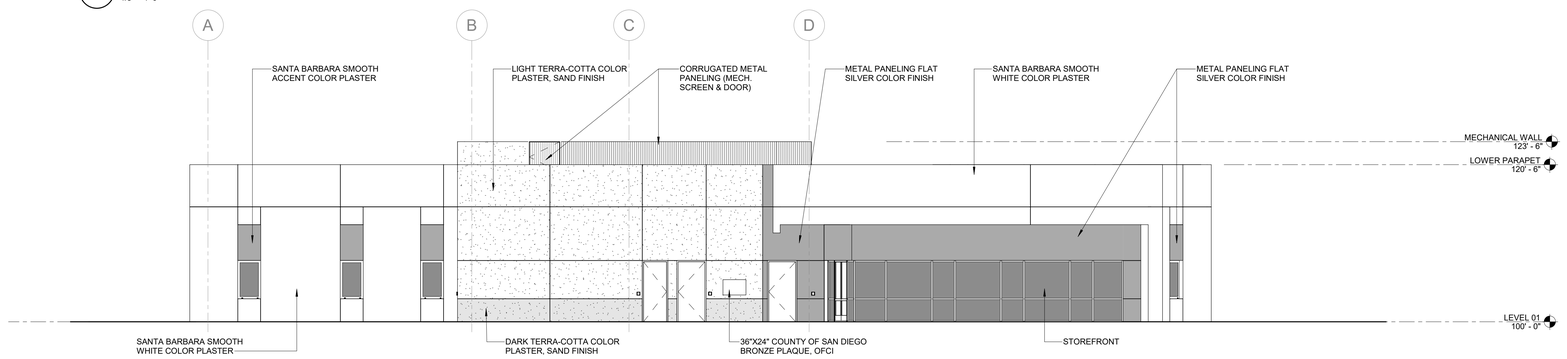
4 WEST ELEVATION
1/8" = 1'-0"



3 SOUTH ELEVATION
1/8" = 1'-0"



2 EAST ELEVATION
1/8" = 1'-0"



1 NORTH ELEVATION
1/8" = 1'-0"

KEYNOTES

LEGEND

PLASTERS

- DARK TERRA COTTA, SAND FINISH
- LIGHT TERRA COTTA, SAND FINISH
- SANTA BARBARA SMOOTH, WHITE
- SANTA BARBARA SMOOTH, ACCENT COLOR U.O.N.

PANEL

- CORRUGATED METAL

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OVERALL EXTERIOR ELEVATIONS

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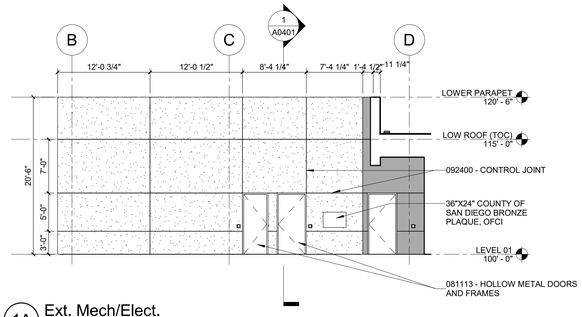
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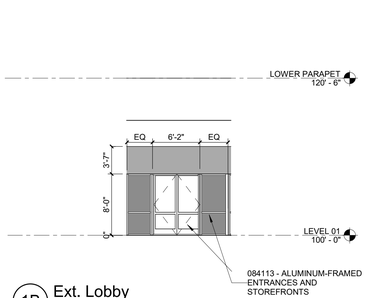
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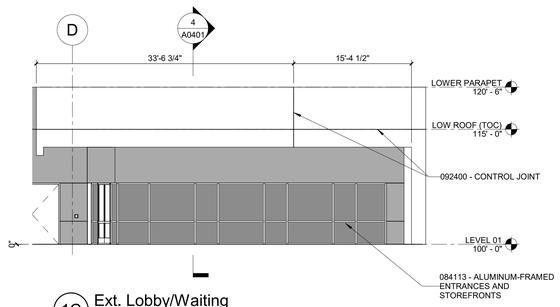
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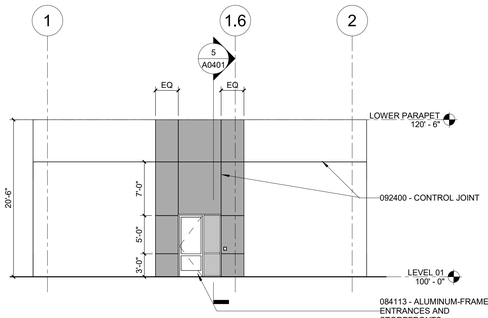
1A Ext. Mech/Elect.
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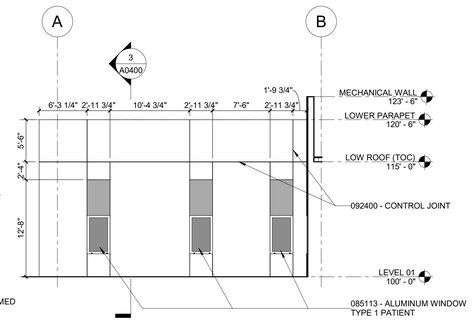
1B Ext. Lobby
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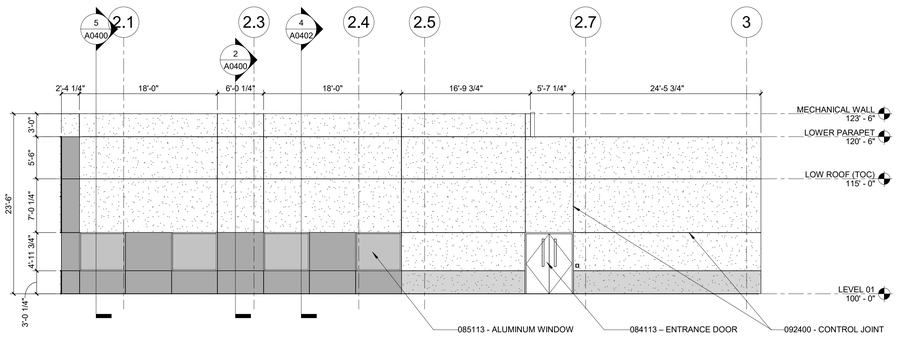
1C Ext. Lobby/Waiting
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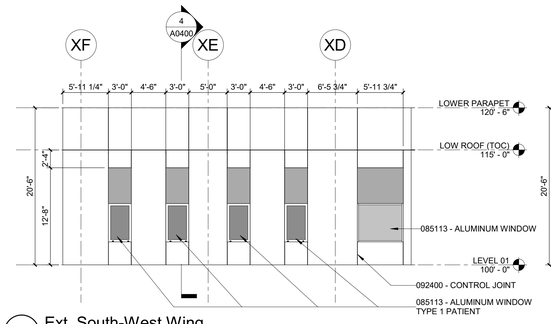
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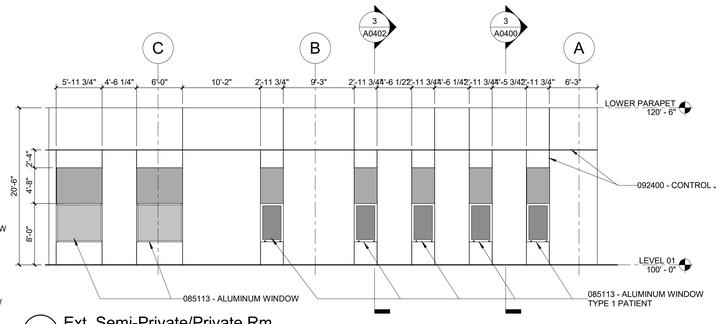
2B Ext. Private Rm
1/8" = 1'-0"



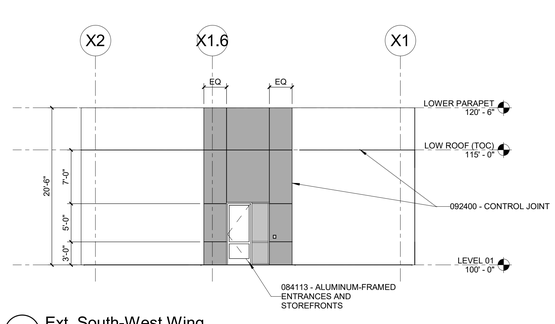
2C Ext. Shared Office
1/8" = 1'-0"



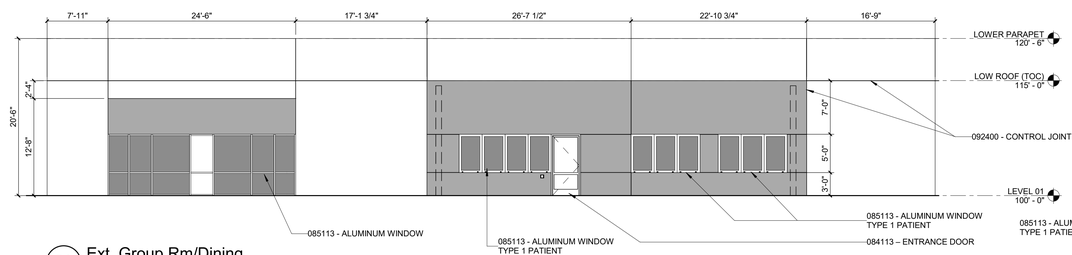
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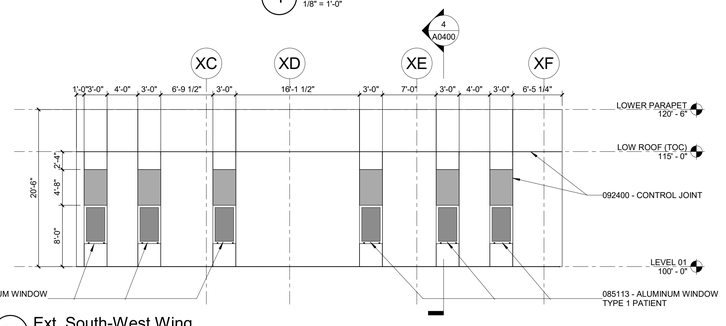
3B Ext. Semi-Private/Private Rm
1/8" = 1'-0"



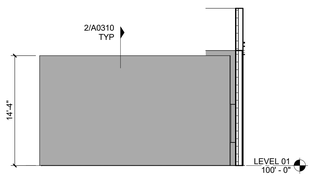
4 Ext. South-West Wing
1/8" = 1'-0"



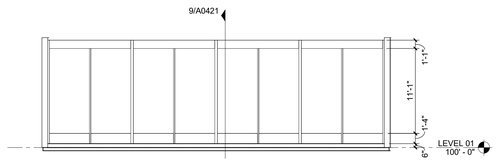
5A Ext. Group Rm/Dining
1/8" = 1'-0"



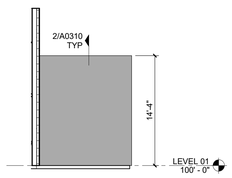
5B Ext. South-West Wing
1/8" = 1'-0"



6 Ext. Courtyard West
1/8" = 1'-0"



7 Ext. Courtyard West
1/8" = 1'-0"



8 Ext. Courtyard Screen West
1/8" = 1'-0"

KEYNOTES

081113.A00	081113 - HOLLOW METAL DOORS AND FRAMES
084113.A00	084113 - ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS
084113.B05	084113 – ENTRANCE DOOR
085113.B01	085113 - ALUMINUM WINDOW
085113.B03	085113 - ALUMINUM WINDOW TYPE 1 PATIENT
092400.D01	092400 - CONTROL JOINT

LEGEND

PLASTERS

- DARK TERRA COTTA, SAND FINISH
- LIGHT TERRA COTTA, SAND FINISH
- SANTA BARBARA SMOOTH, WHITE
- SANTA BARBARA SMOOTH, ACCENT COLOR

PANEL

- CORRUGATED METAL

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NO. C27137
REN.: 10-31-2023
STATE OF CALIFORNIA

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Drawing Title:

EXTERIOR ELEVATIONS

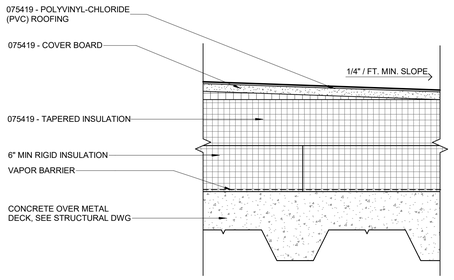
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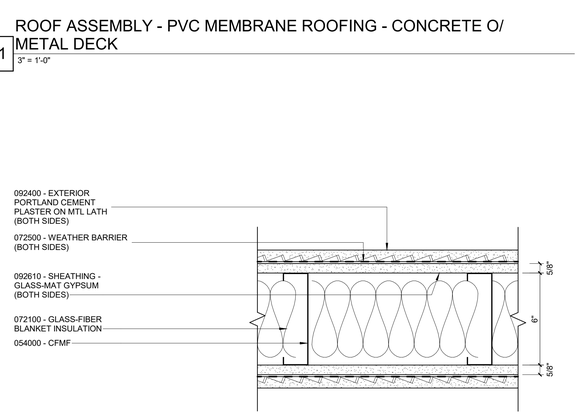
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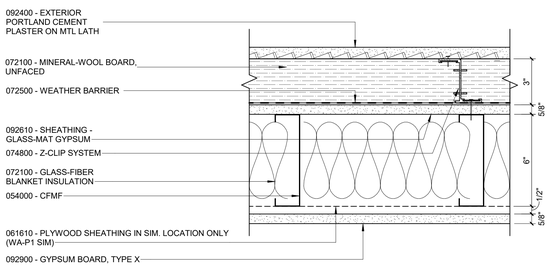
RA-R1 ROOF ASSEMBLY - PVC MEMBRANE ROOFING - CONCRETE O/ METAL DECK

3" = 1'-0"



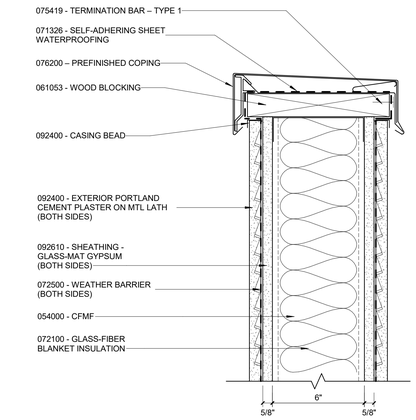
WA-P2 WALL ASSEMBLY - PLASTER CFMF

3" = 1'-0"



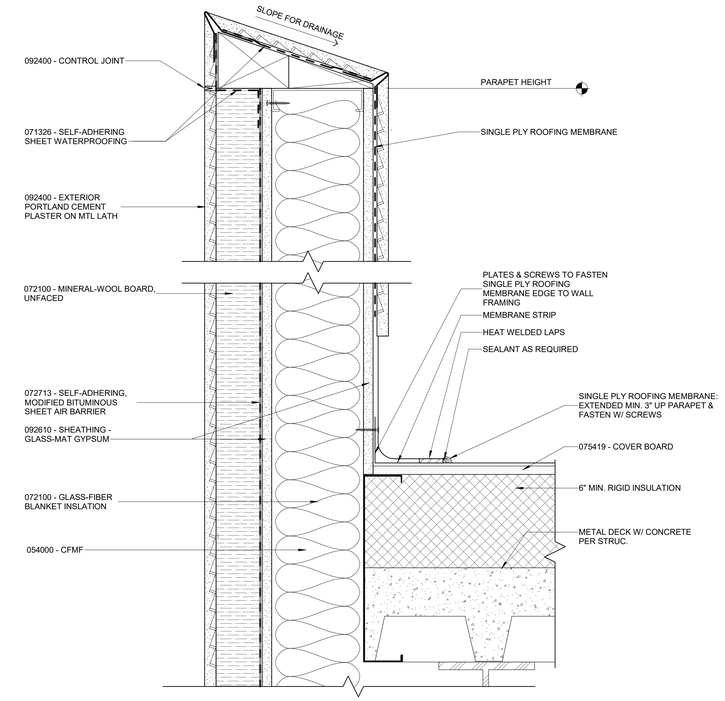
WA-P1 WALL ASSEMBLY - PLASTER CFMF WITH GYPSUM-FACED INSULATION

3" = 1'-0"



2 COPING

3" = 1'-0"



1 PARAPET DETAIL

3" = 1'-0"

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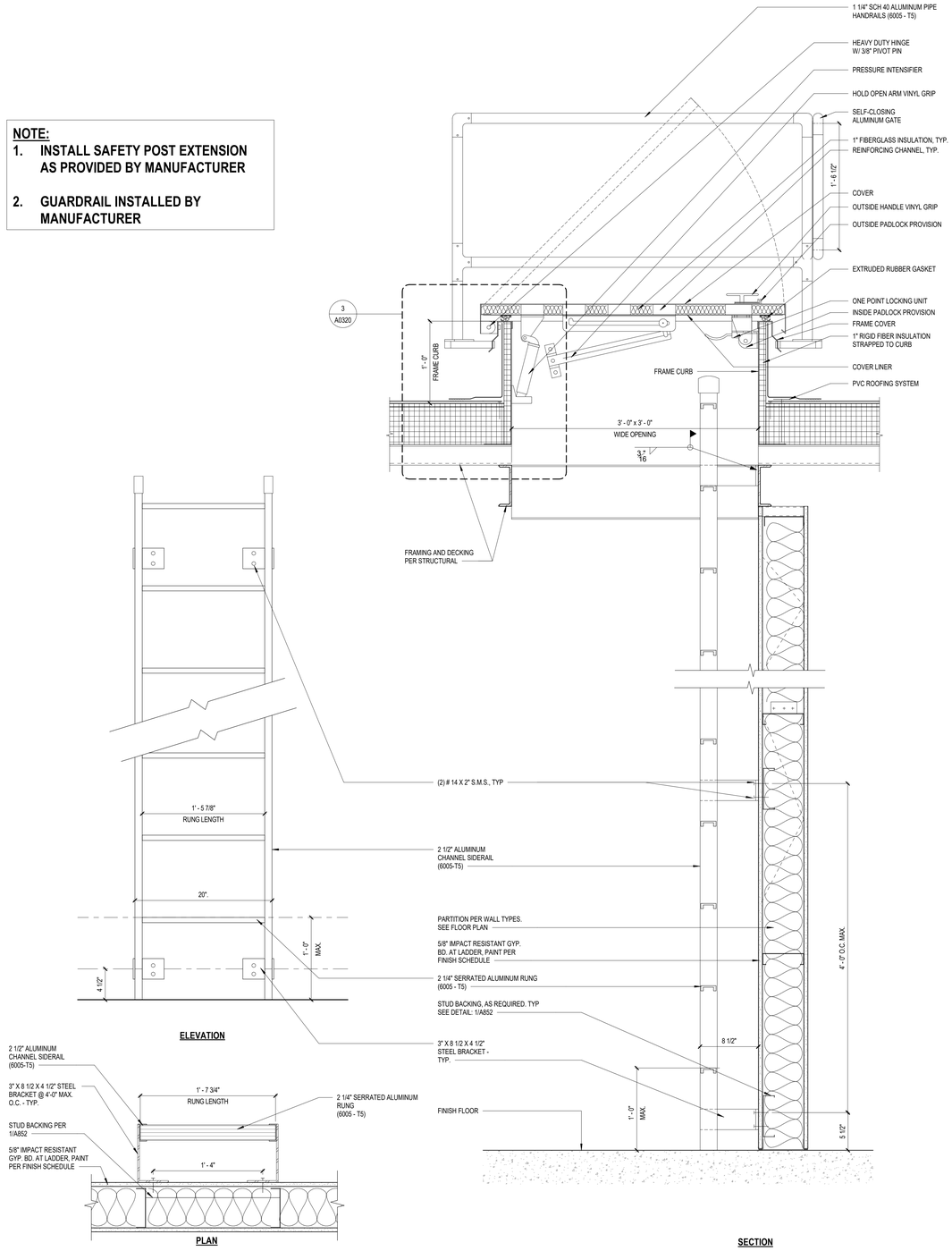
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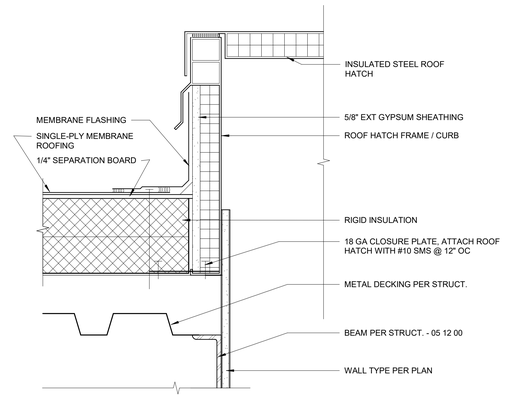
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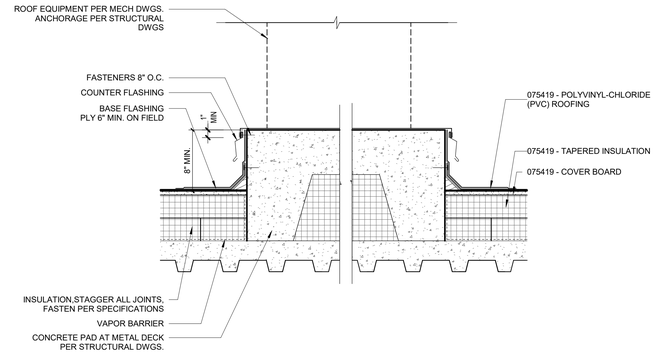
1. **INSTALL SAFETY POST EXTENSION AS PROVIDED BY MANUFACTURER**
2. **GUARDRAIL INSTALLED BY MANUFACTURER**



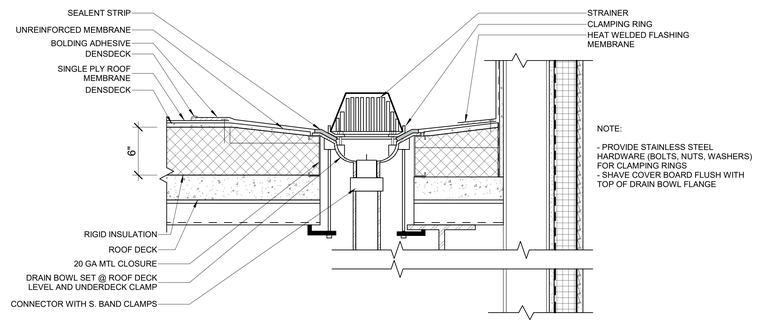
4 ROOF LADDER HATCH
1 1/2" = 1'-0"



3 ROOF HATCH
3" = 1'-0"



2 EQUIPMENT PLATFORM DETAIL
1 1/2" = 1'-0"



1 ROOF DRAIN
1 1/2" = 1'-0"

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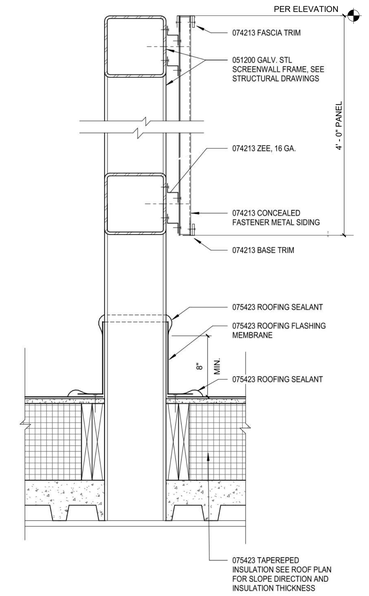
ROOF DETAILS

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1 MECHANICAL SCREEN
1 1/2" = 1'-0"

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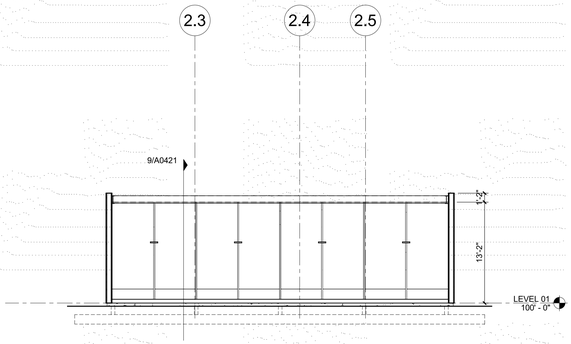
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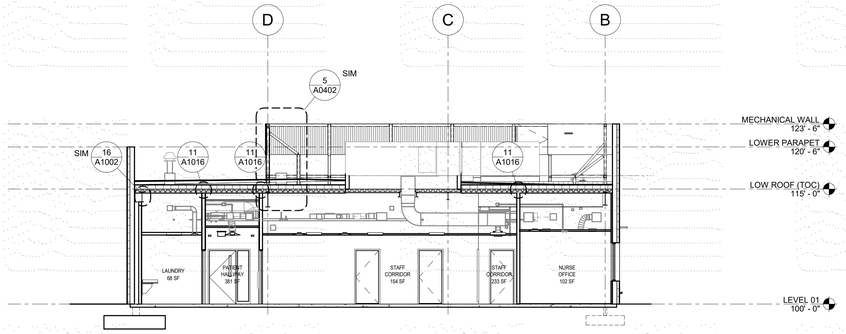
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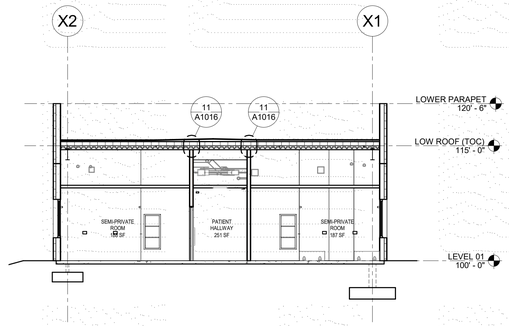
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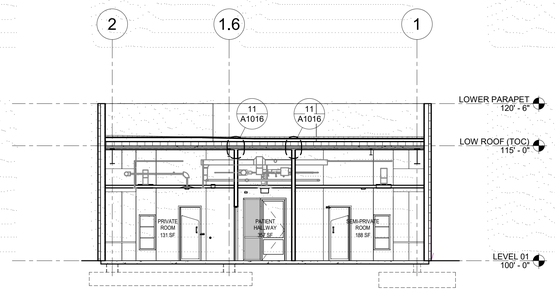
6 SECTION THRU ACTIVITY / RECREATION COURTYARD
1/8" = 1'-0"



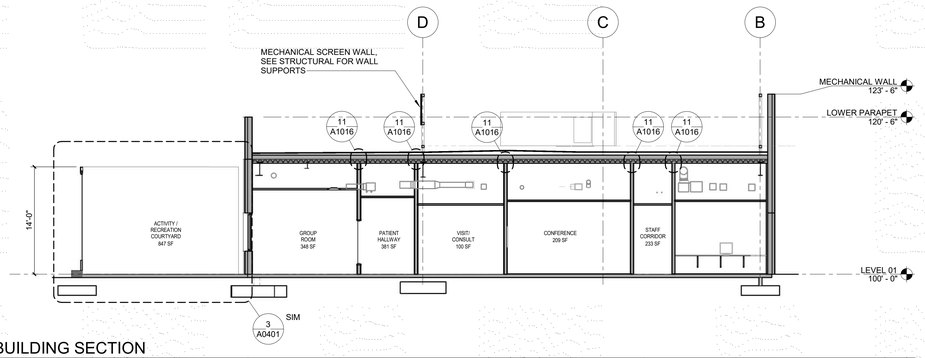
5 SECTION THRU MECHANICAL YARD
1/8" = 1'-0"



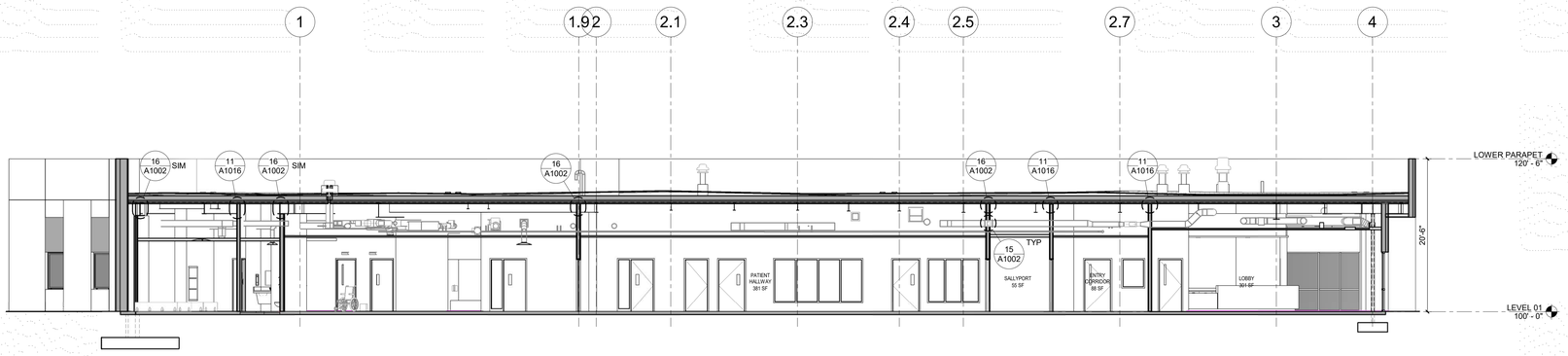
4 SECTION THRU SEMI-PRIVATE ROOMS (SOUTH WING)
1/8" = 1'-0"



3 SECTION THRU SEMI-PRIVATE ROOMS (EAST WING)
1/8" = 1'-0"



2 W-E BUILDING SECTION
1/8" = 1'-0"



1 N-S BUILDING SECTION
1/8" = 1'-0"

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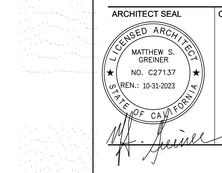
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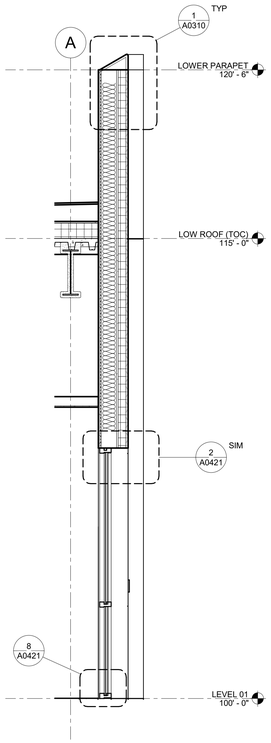
BUILDING SECTIONS

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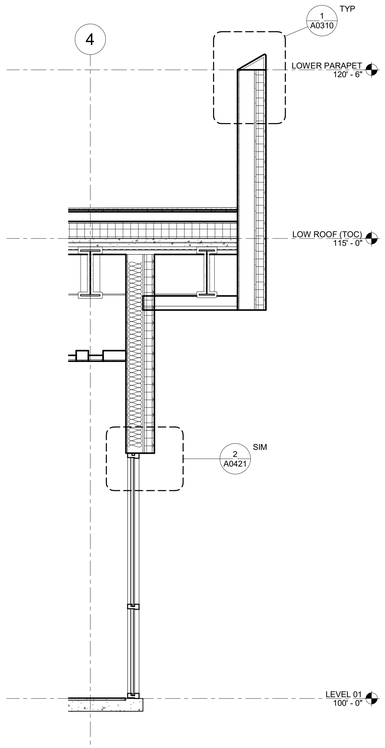
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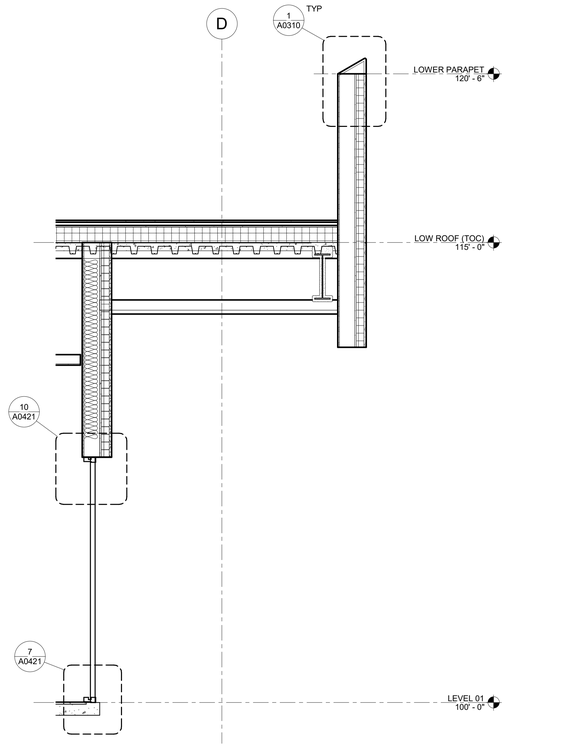
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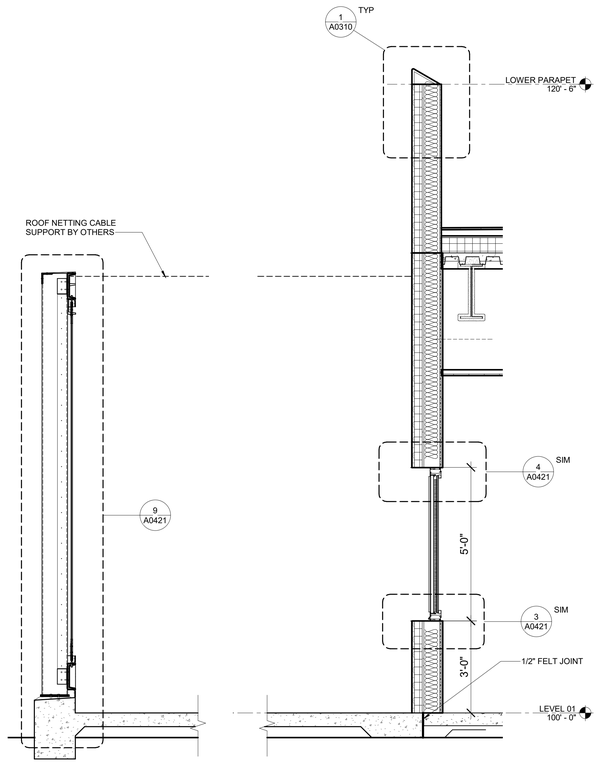
5 SECTION - EAST WING
1/2" = 1'-0"



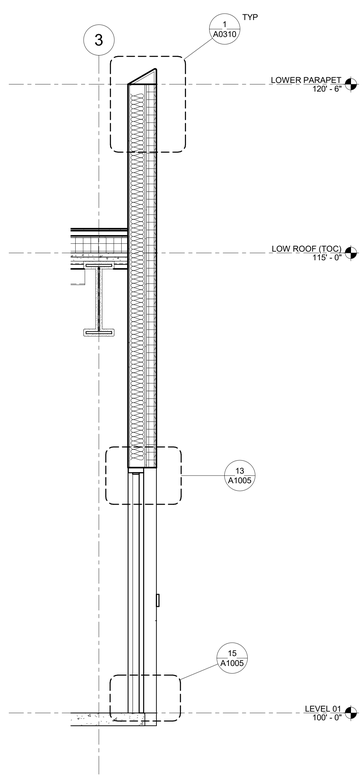
4 SECTION - WAITING
1/2" = 1'-0"



2 SECTION - ENTRANCE
1/2" = 1'-0"



3 SECTION THRU OUTDOOR PATIO
1/2" = 1'-0"



1 SECTION THRU MECH. ROOM
1/2" = 1'-0"

SHEET LEGEND

1. SEE A1003 FOR FIREPROOFING DETAILS FOR STRUCTUAL FRAMING.

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REN.: 10-31-2023
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WALL SECTIONS

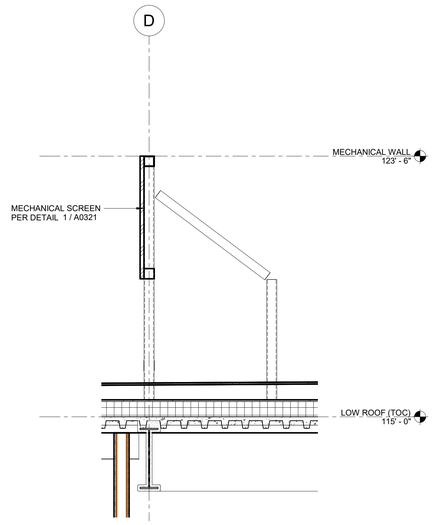
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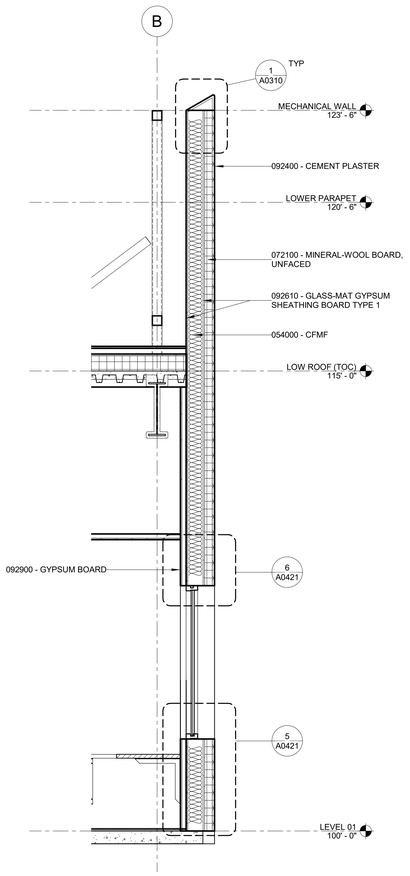
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5 SECTION - MECH SCREEN
1/2" = 1'-0"



4 SECTION - SHARED OFFICE
1/2" = 1'-0"

3 SECTION - PRIVATE ROOM WINDOW
1/2" = 1'-0"

2 SECTION - GROUP ROOM
1/2" = 1'-0"

1 SECTION - WAITING (WEST)
1/2" = 1'-0"

SHEET LEGEND

1. SEE A1003 FOR FIREPROOFING DETAILS FOR STRUCTUAL FRAMING.

KEYNOTES

054000.A01	054000 - CFMF
072100.C06	072100 - MINERAL-WOOL BOARD, UNFACED
084113.A00	084113 - ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS
085113.B03	085113 - ALUMINUM WINDOW TYPE 1 PATIENT
092400.A00	092400 - CEMENT PLASTER
092610.B02	092610 - GLASS-MAT GYPSUM SHEATHING BOARD TYPE 1
092900.B01	092900 - GYPSUM BOARD

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WALL SECTIONS

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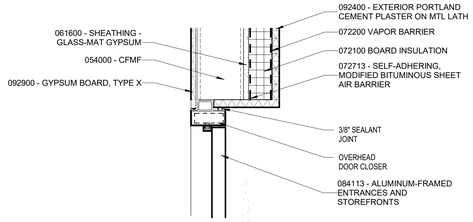
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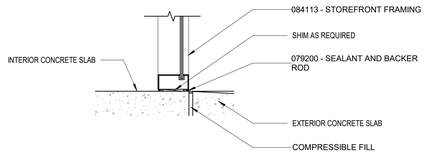
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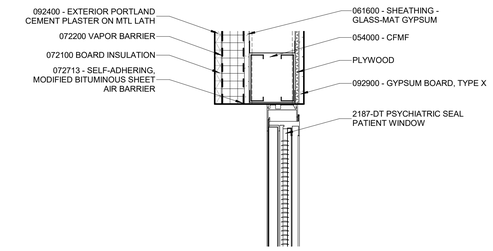
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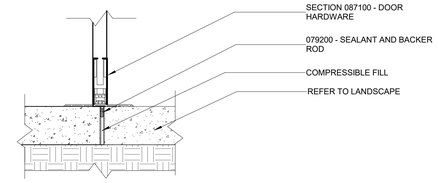
10 STOREFRONT DOOR HEAD
1 1/2" = 1'-0"



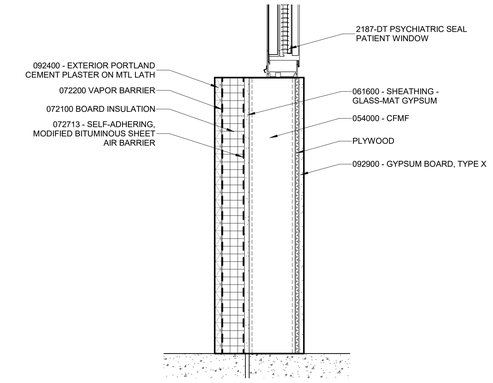
8 STOREFRONT SILL
1 1/2" = 1'-0"



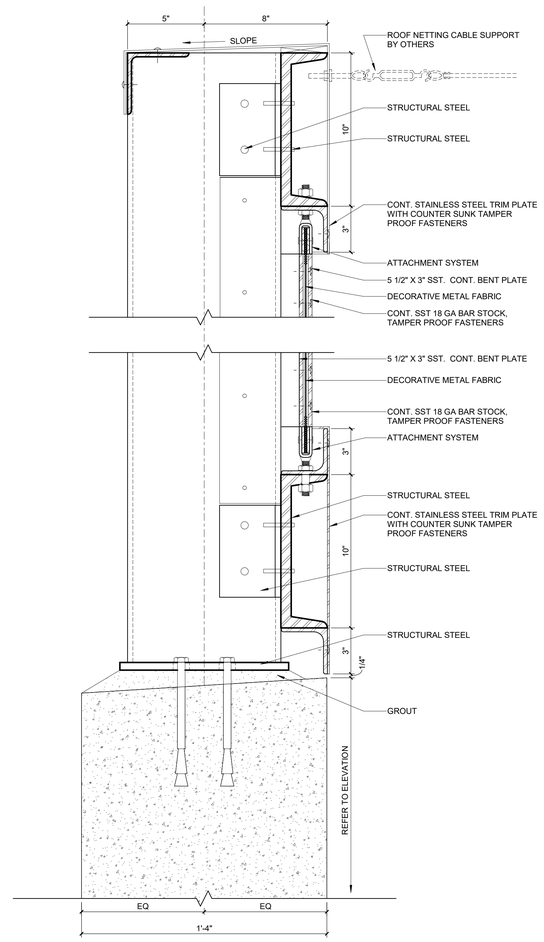
4 PATIENT WINDOW HEAD
1 1/2" = 1'-0"



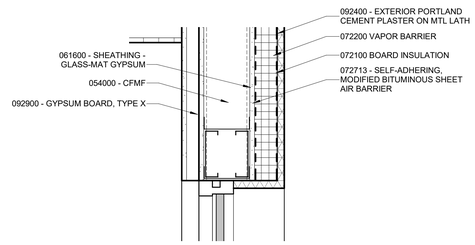
7 STOREFRONT DOOR SILL
1 1/2" = 1'-0"



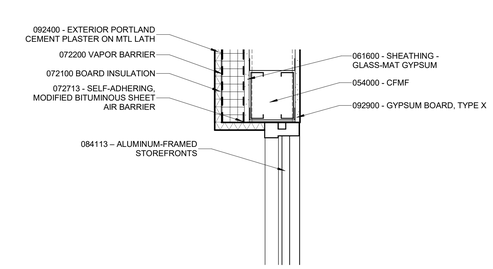
3 PATIENT WINDOW SILL
1 1/2" = 1'-0"



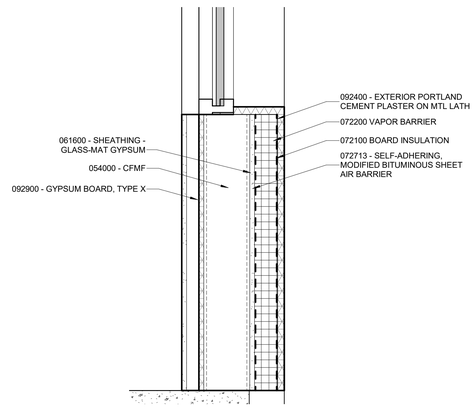
9 COURTYARD WALL SECTION DETAIL
3" = 1'-0"



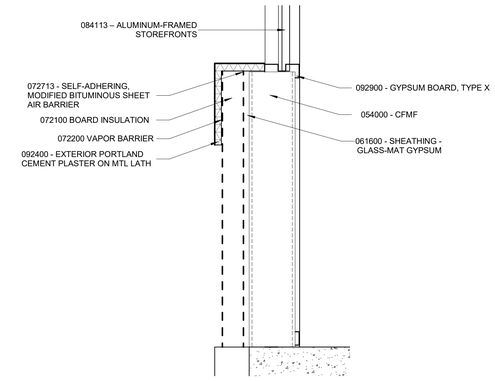
6 STAFF OFFICE WINDOW HEAD
1 1/2" = 1'-0"



2 STOREFRONT HEAD
1 1/2" = 1'-0"



5 STAFF OFFICE WINDOW SILL
1 1/2" = 1'-0"



1 STOREFRONT SILL
1 1/2" = 1'-0"

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Rev.	Description	Date
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ARCHITECT SEAL



CONSULTANT SEAL

Drawing Title:

WALL SECTION DETAILS

Issue Date: 01/21/2022

Project No.: 006240.00 Checked by: Checker

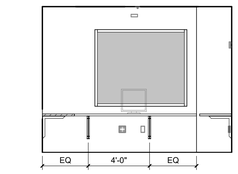
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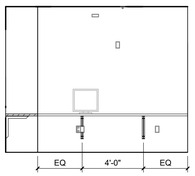
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KEYNOTES

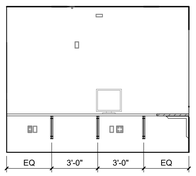
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083113.A04	083113 – SECURITY RATED ACCESS DOOR
102800.C02	102800 – RECESSED PAPER TOWEL DISPENSER ANTI LIGATURE PTD-2
102800.E02	102800 – RECESSED SOAP DISPENSER ANTI-LIGATURE SD-2



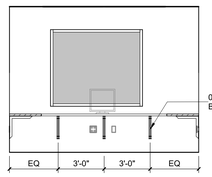
14 SHARED OFFICE
1/4" = 1'-0"



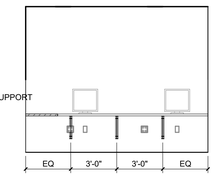
13 SHARED OFFICE
1/4" = 1'-0"



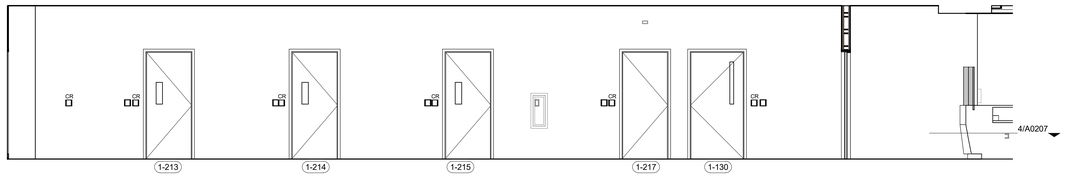
12 SHARED OFFICE
1/4" = 1'-0"



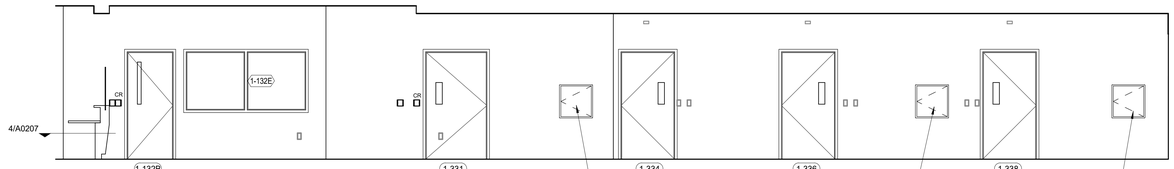
11 SHARED OFFICE
1/4" = 1'-0"



10 SHARED OFFICE
1/4" = 1'-0"



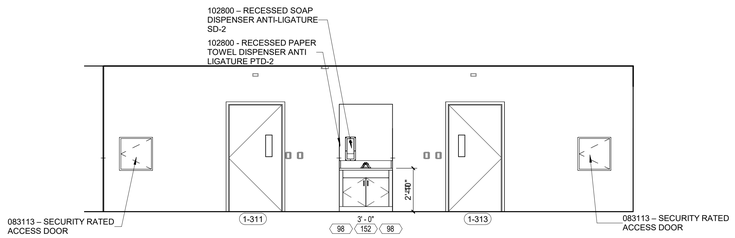
9 PATIENT CORRIDOR 9
1/4" = 1'-0"



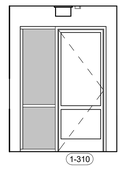
8 PATIENT CORRIDOR 8
1/4" = 1'-0"

7 PATIENT CORRIDOR 7
1/4" = 1'-0"

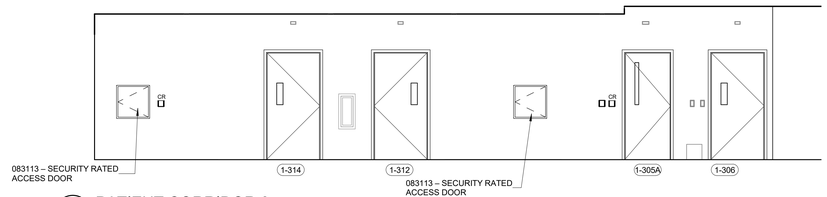
6 PATIENT CORRIDOR 6
1/4" = 1'-0"



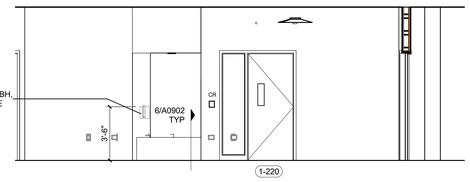
5 PATIENT CORRIDOR 5
1/4" = 1'-0"



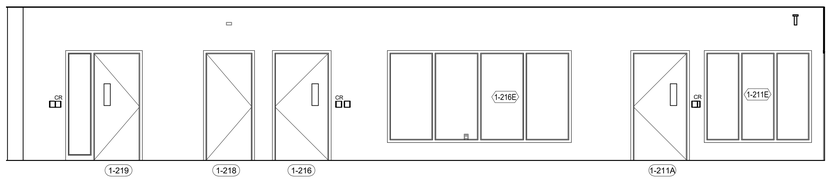
4 PATIENT CORRIDOR 4
1/4" = 1'-0"



3 PATIENT CORRIDOR 3
1/4" = 1'-0"



2 PATIENT CORRIDOR 2
1/4" = 1'-0"



1 PATIENT CORRIDOR 1
1/4" = 1'-0"

SYMBOLS

E	ELECTRICAL RECEPTACLE (2)
E	ELECTRICAL RECEPTACLE (4)
T	TELEPHONE OUTLET
P	WALL MOUNTED PHONE
D	DATA OUTLET
E/C	CABLE/ELECTRICAL OUTLET
SW	LIGHT SWITCH
E	NURSE CALL
FS	FIRE STROBE
T	THERMOSTAT
<Custom>	

GENERAL NOTES

1. ALL DIMENSIONS ARE FINISH DIMENSIONS UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS FOR MILLWORK ARE TO BE FIELD MEASURED AND VERIFIED BEFORE FABRICATION OF MILLWORK UNITS BEGINS.
3. ALL COUNTERTOPS @ SINK LOCATIONS TO BE SOLID SURFACE UNLESS NOTED OTHERWISE
4. ALL COUNTERTOPS ARE TO HAVE A 4" BACKSPLASH ON ALL SIDES WHERE THE COUNTERTOPS ABUT FINISHED WALLS UNLESS OTHERWISE NOTED.
5. ALL MILLWORK UNITS THAT ABUT FINISH WALLS ARE TO HAVE 1" MINIMUM PLASTIC LAMINATE FINISHED FILLERS AT WALLS. FILLERS ARE TO BE SCRIBED TO THE WALLS.
6. ALL CABINETS AND DRAWERS SHALL BE LOCKABLE.
7. ALL BASES TO BE 4" HIGH RESILIENT BASE UNLESS OTHERWISE NOTED. REFER TO THE ROOM FINISH SCHEDULE FOR ALL FINISHES.
8. WHERE OUTLETS AND/OR RECEPTACLES ARE CALLED OUT BELOW COUNTERTOPS, 2" DIAMETER SLOTS IN THE COUNTERTOP SHALL BE PROVIDED IN THE BACK OF THE COUNTERTOP FOR CORD ACCESS. FINISH ALL SLOTS WITH GROMMETS.
9. TYPICAL SWITCH AND RECEPTACLE LOCATIONS ARE INDICATED AT INTERIOR ELEVATIONS, BUT DO NOT REPRESENT TOTAL QUANTITIES OR INDIVIDUAL TYPES, AT THESE LOCATION. REFER TO MOUNTING HEIGHT REQUIREMENTS. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR COMPREHENSIVE FIXTURE AND/OR DEVICE QUANTITIES AND LOCATIONS.
10. ALL RECEPTACLES AND OUTLETS BELOW COUNTER HEIGHT ARE TO BE MOUNTED 18" AFF TO CENTERLINE OF DEVICE UNLESS OTHERWISE NOTED.
11. ALL RECEPTACLES AND OUTLETS ABOVE COUNTER HEIGHT ARE TO BE MOUNTED 6" ABOVE TOP OF COUNTER OR 6" ABOVE BACKSPLASH (WHERE OCCURS) TO CENTERLINE OF DEVICE UNLESS OTHERWISE NOTED.
12. MORE THAN 5% OF LOCKERS ARE ACCESIBLE PER SEC. 11B-225.2.1
13. 50% OF STORAGE SHELVES (AS WELL AS KITCHEN DRAWERS) SHALL BE HC ACCESSIBLE. SECTION 11B-804.5

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ARCHITECT SEAL

LICENSED ARCHITECT
MATTHEW S. GREINER
NO. C27137
REN.: 10-31-2023
STATE OF CALIFORNIA

CONSULTANT SEAL

Drawing Title:

INTERIOR ELEVATIONS

Issue Date: 01/21/2022
Project No.: 006240.00 Checked by: Checker

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1 REFLECTED CEILING PLAN
1/8" = 1'-0"

SHEET LEGEND

NOTE: REFER TO G0020 FOR ADDITIONAL WALL TYPE INFORMATION.

- NON-RATED PARTITION
- 1-HR RATED PARTITION
- 2-HR RATED PARTITION

CEILING TYPES

NOTE: REFER TO SHEET A1231 FOR MORE INFORMATION

- ACOUSTICAL CEILING TILE (ACT)
- GYPSUM WALL BOARD (GWB)
- EXTERIOR SOFFIT
- METAL MESH COVERING
- WOOD PANEL

GENERAL NOTES

1. PROVIDE ACCESS DOORS OF APPROPRIATE SIZE, TYPE AND FIRE RATING FOR ALL CONCEALED ITEMS THAT REQUIRE ADJUSTMENT, MAINTENANCE, MONITORING, ETC. COORDINATE LOCATIONS WITH ARCHITECT.
2. DO NOT DETERMINE DIMENSIONS AND SIZE OF THE GRAPHIC REPRESENTATIONS SHOWN ON THE DRAWINGS BY USING MEASURING DEVICES (DO NOT "SCALE"). RELY ON THE NUMERIC DIMENSIONS SHOWN ON THE DRAWINGS FOR MEASUREMENT. IF DIMENSIONS ARE NOT PROVIDED NOTIFY ARCHITECT FOR CLARIFICATION.
3. DIMENSIONS ARE TAKEN FROM CENTERLINE OF STRUCTURE, FACE OF PLASTER OR FINISHED FACE OF PARTITIONS, UNO. SEE PARTITION TYPES SHEETS A1001 AND A1002 FOR PARTITION DESCRIPTIONS.
4. CENTER ITEMS IN CEILING PANELS, UNO. REFER TO THE REFLECTED CEILING PLANS
5. REFER TO FINISH PLAN FOR FINISH PLAN SYMBOLS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AT THE SITE.
7. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN FIELD OBSERVATION AND CONTRACT DOCUMENTS.
8. ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO SIMILAR SITUATIONS ON THE PROJECT UNLESS A DIFFERENT DETAIL OR SECTION IS SHOWN.
9. THE CONTRACTOR SHALL EXAMINE ALL OF THE DRAWINGS AND COORDINATE THE WORK SO THAT ALL WORK SHOWN IS PROVIDED BY THE APPROPRIATE TRADE CONTRACTOR OR SUBCONTRACTOR WITHOUT REGARD TO WHERE THE WORK IS DESCRIBED.
10. ALL WORK SHALL CONFORM TO ALL PERTINENT CODES, REGULATIONS AND ORDINANCES OF THE MUNICIPALITY, STATE AND OTHER AUTHORITIES HAVING JURISDICTION. REFER TO CODE COMPLIANCE PLANS FOR REFERENCE.
11. ACCESS PANELS SHALL MATCH THE RATING OF THE PARTITION THEY ARE INSTALLED IN, UNLESS NOTED OTHERWISE ON PLAN. REFER TO CODE COMPLIANCE PLANS FOR RATINGS.
12. WHEN TWO DIFFERENT WALL TYPES APPEAR ADJACENT TO EACH OTHER, THEIR FINISHED SURFACES SHALL ALIGN, UNO.
13. PROVIDE BLOCKING BEHIND ALL ITEMS IDENTIFIED TO BE SUPPORTED OFF ANY INTERIOR PARTITION. COORDINATE ANY BLOCKING WITH EQUIPMENT AND FURNITURE ITEMS WITH EQUIPMENT PROVIDER.
14. REFER TO CODE COMPLIANCE PLANS FOR PARTITION FIRE RATINGS. NOTIFY ARCHITECT IF PARTITION TAG SHOWN ON THE PLANS DOES NOT MATCH THE REQUIRED FIRE RATING IDENTIFIED ON THE CODE COMPLIANCE PLANS.
15. DOORS AND GLAZED OPENINGS WITHIN A FIRE RATED PARTITIONS ARE TO HAVE THE APPROPRIATE FIRE RATING AS INDICATED ON THE OPENING SCHEDULES. IF FIRE RATING DESIGNATIONS LISTED ON THE OPENING SCHEDULE CONFLICT WITH THE PARTITION FIRE RATING NOTIFY ARCHITECT. REFER TO CODE COMPLIANCE PLANS FOR REFERENCE
16. PENETRATIONS OF FIRE WALLS SHALL BE PROTECTED WITH THROUGH-PENETRATION FIRE STOPS AND MEMBRANE-PENETRATION FIRE STOPS IN ACCORDANCE WITH CBC SECTION 714.
17. PORTABLE FIRE EXTINGUISHERS WILL BE INSTALLED AS PER SPEC. 906
18. PENETRATIONS OF FIRE-RESISTIVE WALLS, FLOOR-CEILINGS AND ROOF-CEILINGS SHALL BE PROTECTED AS REQUIRED IN CBC SECTION 714.
19. THE FACILITY INCLUDING PATIENT ROOMS, EXAM ROOM, WAITING ROOM, BATHROOMS, ETC. COMPLIES WITH 11B-805, AS PER SEC. 11B-223.4.

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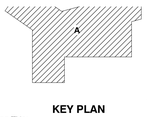
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MATTHEW S. GREINER
NO. C27137
REN.: 10-31-2023
STATE OF CALIFORNIA

CONSULTANT SEAL



KEY PLAN

Drawing Title:

LEVEL 01 REFLECTED CEILING PLAN

Issue Date: 01/21/2022

Project No.: 006240.00 Checked by: Checker

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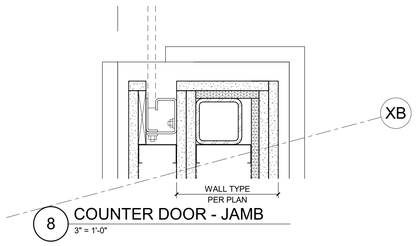
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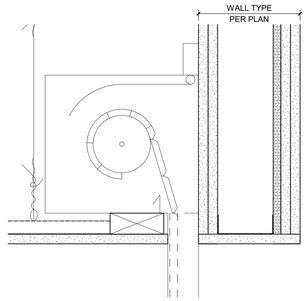
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KEYNOTES

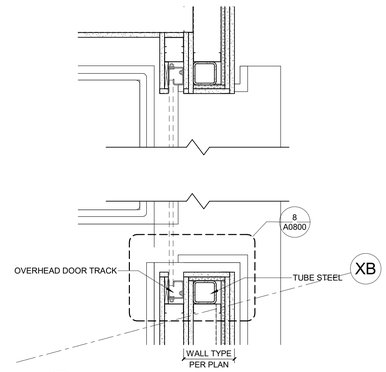
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092216.A00	092216 - NON-STRUCTURAL METAL FRAMING
092900.B01	092900 - GYPSUM BOARD
092900.E01	092900 - TRIM



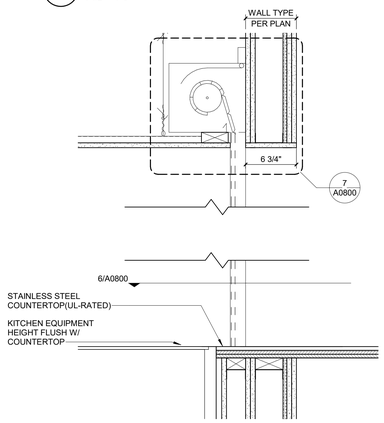
8 COUNTER DOOR - JAMB
3" = 1'-0"



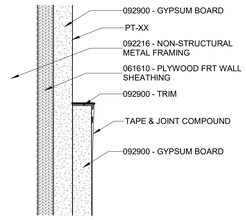
7 COUNTER DOOR - HEAD
3" = 1'-0"



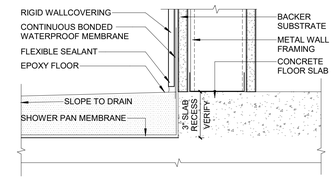
6 COUNTER DOOR - PLAN
1 1/2" = 1'-0"



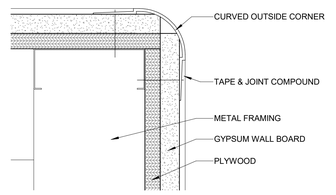
5 COUNTER DOOR - SECTION
1 1/2" = 1'-0"



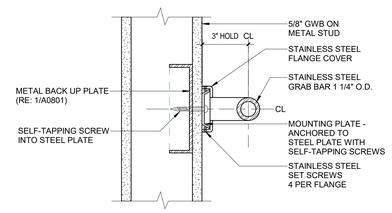
4 DRYWALL TRIM
6" = 1'-0"



3 SHOWER FLOOR/ STUD WALL
3" = 1'-0"



2 TR-1 CORNER DETAIL
6" = 1'-0"



1 GRAB BAR AND OTHER EQUIPMENT MOUNTING DETAIL
1 1/2" = 1'-0"

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	AGENCY APPROVAL	

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REN.: 10-31-2023
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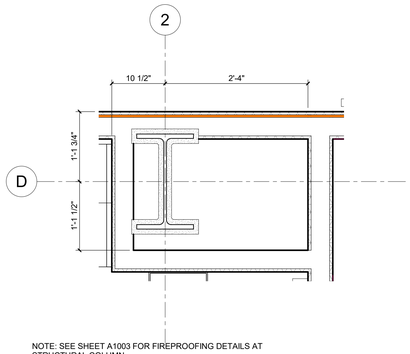
Issue Date: 01/21/2022

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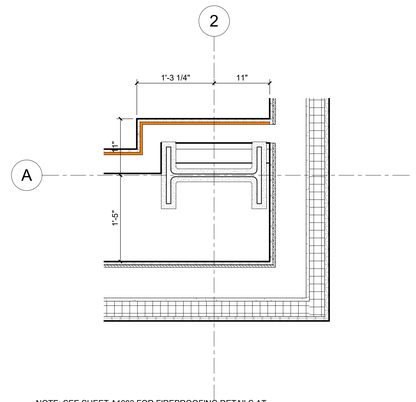
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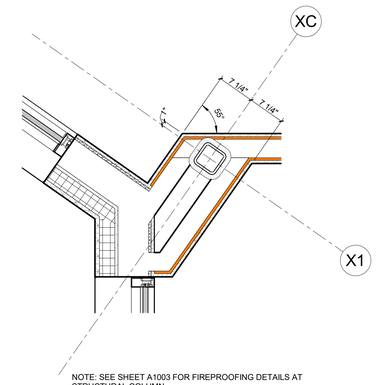
NOTE: SEE SHEET A1003 FOR FIREPROOFING DETAILS AT STRUCTURAL COLUMN.

12 MED ROOM PLAN DETAIL - COLUMN 2/D
1" = 1'-0"



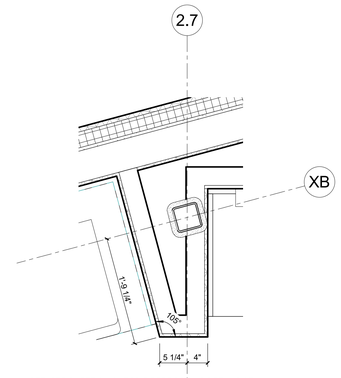
NOTE: SEE SHEET A1003 FOR FIREPROOFING DETAILS AT STRUCTURAL COLUMN.

9 PRIVATE ROOM PLAN DETAIL - COLUMN 2/A
1" = 1'-0"



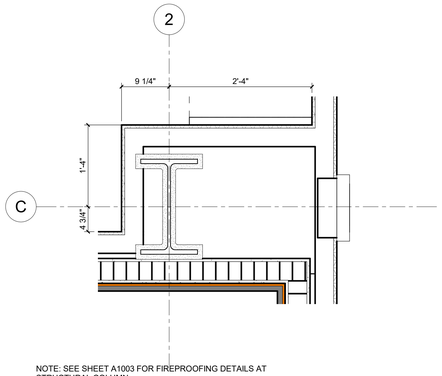
NOTE: SEE SHEET A1003 FOR FIREPROOFING DETAILS AT STRUCTURAL COLUMN.

6 ACTIVITY AREA PLAN DETAIL - COLUMN X1/XC
1" = 1'-0"



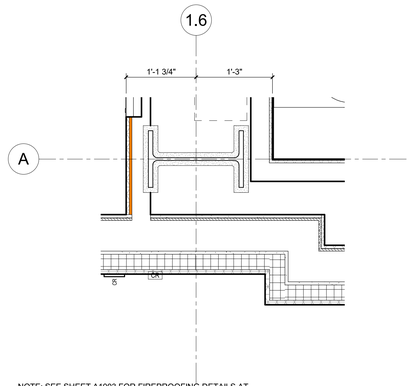
NOTE: SEE SHEET A1003 FOR FIREPROOFING DETAILS AT STRUCTURAL COLUMN.

3 KITCHEN PLAN DETAIL - COLUMN 2.7/XB
1" = 1'-0"



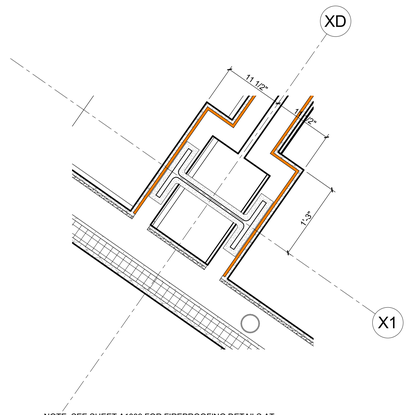
NOTE: SEE SHEET A1003 FOR FIREPROOFING DETAILS AT STRUCTURAL COLUMN.

11 CHARTING PLAN DETAIL - COLUMN 2/C
1" = 1'-0"



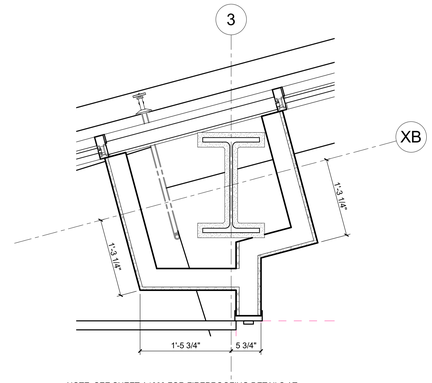
NOTE: SEE SHEET A1003 FOR FIREPROOFING DETAILS AT STRUCTURAL COLUMN.

8 PRIVATE ROOM PLAN DETAIL - COLUMN 1.6/A
1" = 1'-0"



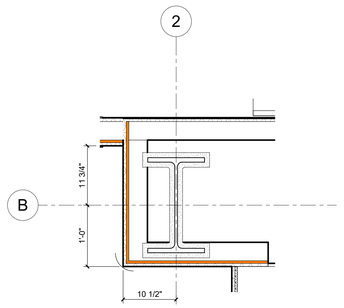
NOTE: SEE SHEET A1003 FOR FIREPROOFING DETAILS AT STRUCTURAL COLUMN.

5 ACTIVITY AREA PLAN DETAIL - COLUMN X1/XD
1" = 1'-0"



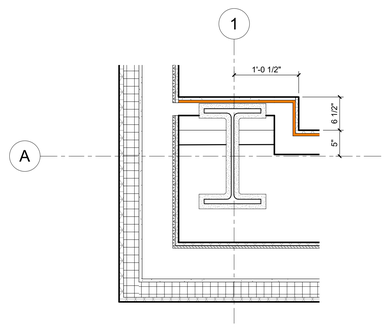
NOTE: SEE SHEET A1003 FOR FIREPROOFING DETAILS AT STRUCTURAL COLUMN.

2 LOBBY/ WAITING PLAN DETAIL - COLUMN 3/XB
1" = 1'-0"



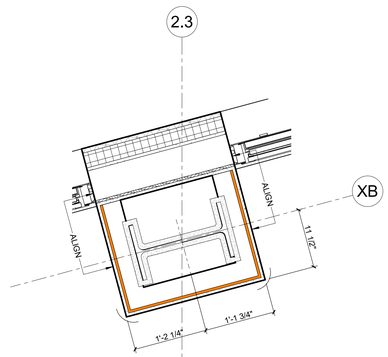
NOTE: SEE SHEET A1003 FOR FIREPROOFING DETAILS AT STRUCTURAL COLUMN.

10 ACCESSIBLE ROOM PLAN DETAIL - COLUMN 2/B
1" = 1'-0"



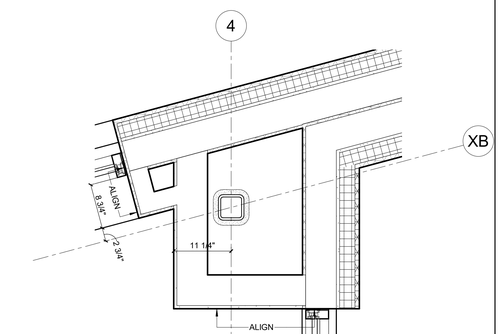
NOTE: SEE SHEET A1003 FOR FIREPROOFING DETAILS AT STRUCTURAL COLUMN.

7 SEMI-PRIVATE ROOM PLAN DETAIL - COLUMN 1/A
1" = 1'-0"



NOTE: SEE SHEET A1003 FOR FIREPROOFING DETAILS AT STRUCTURAL COLUMN.

4 GROUP ROOM PLAN DETAIL - COLUMN 2.3/XB
1" = 1'-0"



NOTE: SEE SHEET A1003 FOR FIREPROOFING DETAILS AT STRUCTURAL COLUMN.

1 LOBBY/ WAITING PLAN DETAIL - COLUMN 4/X.B
1" = 1'-0"

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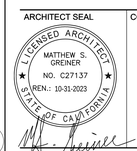
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EXPANSION ANCHOR ALLOWABLE STRENGTHS INTO B-DECK

TABLE 1
EXPANSION ANCHORS INSTALLED INTO THE UNDERSIDE OF NORMAL WEIGHT CONCRETE THROUGH B-DECK (f_c MIN = 3000 PSI)

ANCHOR DIAMETER (IN)	EMBED (IN)	SHEAR (LB)	TENSION (LB)
3/8"	2	997	522
1/2"	2	1440	600

** UNDERSIDE APPLICATION ONLY. SEE NOTE ON CL1.22.

Section Title : OSHPD STANDARD SUSPENDED CEILING DETAILS — OPD No:
Sheet Title : EXPANSION ANCHOR ALLOWABLE STRENGTHS (INSTALLED IN CONCRETE FILLED METAL B DECK) — CL1.23

5/9/2017 9:06:05 AM

SHEET METAL SCREW (SMS) GENERAL NOTES

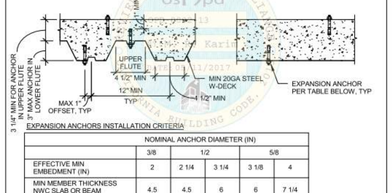
1. THE ALLOWABLE STRENGTHS ARE BASED UPON THE AISI S100-07/S2-10 AND ARE LIMITED BY ACTUAL TESTED STRENGTH OF THE SCREWS IN TENSION AND SHEAR.
2. THE ALLOWABLE STRENGTHS ARE BASED UPON THE LOWER OF THE AVERAGE TESTED TENSILE AND SHEAR STRENGTHS TABULATED FROM ICC ESR'S 1976, 2196, 1730, 1408, AND THE STEEL STUD MANUFACTURER'S ASSOCIATION (SSMA). FASTENER TYPES AND SIZES APPLY TO NON-PROPRIETARY FASTENER TYPES AND SIZES, AND DOES NOT ENDORSE A SPECIFIC MANUFACTURER. WHERE PROPRIETARY FASTENERS ARE SPECIFIED, NO EXCEPTIONS ARE TAKEN TO THE USE OF MANUFACTURER SPECIFIC VALUES THAT ARE BASED UPON THE AISI S100-07/S2-10, SECTION E4. ALL SCREW FASTENERS SHALL SATISFY ICC-ES AC118-ACCEPTANCE CRITERIA FOR SELF TAPPING SCREW FASTENERS.
3. TABLE 1 REPRESENTS ALLOWABLE TENSION AND SHEAR STRENGTHS FOR NON-PROPRIETARY SHEET METAL SCREWS FOR STEEL TO STEEL CONNECTIONS.
4. TABLES 2 AND 3 REPRESENT ALLOWABLE TENSION AND SHEAR STRENGTHS THAT INCORPORATE THE EFFECTS OF EITHER ONE (1) OR TWO (2) LAYERS OF 5/8" GYPSUM BOARD BETWEEN FASTENER HEAD AND CONNECTING STEEL MATERIAL.
5. IN ORDER TO USE THE VALUES IN TABLES 1, 2, AND 3, THE ATTACHMENTS SHALL BE DETAILED IN SUCH A WAY AS TO AVOID PRYING AND THE STUDS MUST BE STABILIZED WITH FULL-DEPTH BLOCKING WITH CONTINUOUS STRAPS ALONG THE FLANGES OR WITH BACKING BARS.
6. PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHALL NOT BE LESS THAN THREE (3) EXPOSED THREADS.
7. STEEL THICKNESSES JOINED ARE ASSUMED TO BE THE SAME. IF DISSIMILAR THICKNESSES ARE BEING CONNECTED, THE VALUE FOR THE THINNER PART JOINED SHALL BE USED.
8. THE MINIMUM SPACING BETWEEN CENTERS OF FASTENERS SHALL NOT BE LESS THAN 3 X FASTENER DIAMETER. THE MINIMUM EDGE DISTANCE FROM THE CENTER OF A FASTENER TO THE EDGE OF ANY PART SHALL NOT BE LESS THAN 1.5 X FASTENER DIAMETER. WHERE THE END DISTANCE IS PARALLEL TO THE FORCE ON THE FASTENER, THE NOMINAL SHEAR STRENGTH SHALL BE LIMITED BY SECTION E4.3.2 OF THE AISI S100-07/S2-10.
9. GALVANIZED METAL STUDS, TRACK AND SHEET STEEL SHALL CONFORM TO ASTM A653-09a MATERIAL OR OTHER EQUIVALENT ASTM LISTED MATERIALS IN TABLE A1 IN AISI S100-07/S2-10, SECTION A2.1) WITH A MINIMUM YIELD STRENGTH OF 33 KSI FOR 43 MIL (18 GA) AND LIGHTER, AND MINIMUM YIELD STRENGTH OF 50 KSI FOR 54 MIL (16 GA) & HEAVIER.
10. WHERE VALUES ARE NOT GIVEN, SUCH COMBINATIONS OF SCREWS & MATERIAL THICKNESS ARE NOT RECOMMENDED.
11. IF THE ATTACHMENT DETAILS RESULT IN PRYING WITH A MOMENT ARM NOT TO EXCEED 1 5/8", THE VALUES IN TABLE 4 MAY BE USED. IF THE ATTACHMENT DETAILS RESULT IN PRYING WITH A MOMENT ARM THAT EXCEEDS 1 5/8", THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE OF THE PROJECT SHALL DETERMINE THE ALLOWABLE VALUES AND SUBMIT SUBSTANTIATION FOR THEM TO OSHPD FOR REVIEW.
12. INTERACTION OF SHEAR AND TENSION SHALL BE BASED ON $T_{ALL} + V_{ALL} \leq 1.0$.
13. REFER TO NOTE 6A ON CL0.00 FOR ADDITIONAL SHEET METAL SCREW REQUIREMENTS.

Section Title : OSHPD STANDARD SUSPENDED CEILING DETAILS — OPD No:
Sheet Title : SHEET METAL SCREW GENERAL NOTES — CL1.30

5/9/2017 9:06:04 AM

EXPANSION ANCHOR GENERAL NOTES

1. ALLOWABLE STRENGTHS SHALL BE COMPARED TO ALLOWABLE STRESS DESIGN (ASD) LEVEL DEMAND IN ACCORDANCE WITH THE 2013 CBC SECTION 1605A.3.1.
2. ALLOWABLE STRENGTHS ARE FOR SINGLE ANCHORS WHICH MEET MIN. REQUIREMENTS IN ACCORDANCE WITH THE TABLE & SECTION BELOW.
3. MINIMUM CONCRETE STRENGTH $f'c$=3000 PSI.
4. EXPANSION ANCHORS INSTALLED THROUGH UPPER OR LOWER FLUTES OF METAL DECK SHALL MEET THE REQUIREMENTS OF THE INSTALLATION CRITERIA AND SECTION BELOW.
5. STEEL DECK TO BE MIN. 20 GA. W-DECK.
6. MINIMUM CONCRETE FILL DEPTH ABOVE THE TOP OF METAL DECK IN ACCORDANCE WITH THE SECTION AND INSTALLATION CRITERIA BELOW.
7. EXPANSION ANCHORS SHALL NOT BE USED IN PRE-STRESSED CONCRETE UNLESS NON-DESTRUCTIVE TESTING METHODS ARE USED TO LOCATE STRAND & REINFORCING PRIOR TO ANCHOR INSTALLATION.
8. EXPANSION ANCHOR INSTALLATION SHALL NOT NICK OR DAMAGE EXISTING REINFORCEMENT. SHOULD THIS OCCUR THE RDP IN RESPONSIBLE CHARGE SHALL BE NOTIFIED IMMEDIATELY. EXPANSION ANCHORS SHALL BE INSTALLED 1" CLEAR OF EXISTING REINFORCEMENT.
9. EXPANSION ANCHORS SHALL BE INSTALLED PER CURRENT ICC-ES EVALUATION REPORT OR REPORT FROM OTHER TESTING AGENCY ACCEPTABLE TO OSHPD.
10. TESTING OF EXPANSION ANCHORS SHALL BE IN ACCORDANCE WITH 2013 CBC SECTION 1913A.7.
11. EXPANSION ANCHORS SHALL BE INSTALLED TO COMPLY WITH THE MINIMUM SLAB THICKNESS REQUIREMENTS ESTABLISHED BY THE ICC-ESR FOR THE SPECIFIED ANCHOR.
12. REFER TO NOTE 6C ON CL0.00 FOR ADDITIONAL EXPANSION ANCHOR REQUIREMENTS.
13. ALL VALUES IN TABLES ARE FOR CRACKED CONCRETE & INCLUDE REDUCTION BASED ON ACI 318-11 SECTION D.3.3.4 REQUIREMENTS. THE ALLOWABLE STRENGTHS ARE BASED UPON THE LEAST OF THE ALLOWABLE STRENGTHS CALCULATED USING THE ICC ESRS 1917 and 2502 & 3037 AND USING AN ALLOWABLE STRENGTH CONVERSION FACTOR OF 1.4.
14. ALL VALUES IN THE TABLE REFLECT ALLOWABLE STRENGTHS WITH 20% STRESS INCREASE FOR LOAD COMBINATIONS WITH OVERSTRENGTH FACTOR IN ACCORDANCE WITH ASCE 7-10 SECTION 12.4.3.3.



EXPANSION ANCHORS INSTALLATION CRITERIA

	NOMINAL ANCHOR DIAMETER (IN)				
	3/8	1/2		5/8	
EFFECTIVE MIN EMBEDMENT (IN)	2	2 1/4	3 1/4	3 1/8	4
MIN MEMBER THICKNESS NWC SLAB OR BEAM ONLY (IN)	4.5	4.5	6	6	7 1/4
MIN ANCHOR SPACING (3 x EMBED) (IN)	6 3/4	6 3/4	9 3/4	9 3/8	12
MIN EDGE DISTANCE (IN)	6	7	7 1/2	6 1/2	8 3/4

Section Title : OSHPD STANDARD SUSPENDED CEILING DETAILS — OPD No:
Sheet Title : EXPANSION ANCHOR GENERAL NOTES — CL1.20

5/9/2017 9:06:04 AM

EXPANSION ANCHOR ALLOWABLE STRENGTHS

TABLE 1
EXPANSION ANCHORS INSTALLED IN TO THE UNDERSIDE OF STRUCTURAL SAND-LIGHTWEIGHT CONCRETE (f'_c MIN=3000 PSI) OVER METAL DECK

ANCHOR DIA. (IN)	EMBED (IN)	SHEAR (LB)	TENSION (LB)
3/8	2	747	604
1/2	2 1/4	1029	610
1/2	3 1/4	1173	1086
5/8	3 1/4	1353	836
5/8	4 1/4	2477	1941

TABLE 2
EXPANSION ANCHORS INSTALLED IN TO THE TOP OF STRUCTURAL SAND-LIGHTWEIGHT CONCRETE (f'_c MIN=3000 PSI) OVER METAL DECK

ANCHOR DIA. (IN)	EMBED (IN)	SHEAR (LB)	TENSION (LB)
3/8	2	806	624
1/2	2 1/4	948	660

TABLE 3
EXPANSION ANCHORS INSTALLED IN NORMAL WEIGHT CONCRETE (f'_c MIN=3000 PSI)

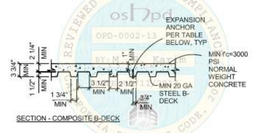
ANCHOR DIA. (IN)	EMBED (IN)	SHEAR (LB)	TENSION (LB)
3/8	2	1020	961
1/2	2 1/4	1580	1191
1/2	3 1/4	2591	2003
5/8	3 1/4	2579	2150
5/8	4 1/4	3772	3113

Section Title : OSHPD STANDARD SUSPENDED CEILING DETAILS — OPD No:
Sheet Title : EXPANSION ANCHOR ALLOWABLE STRENGTHS — CL1.21

5/9/2017 9:06:04 AM

EXPANSION ANCHOR GENERAL NOTES

1. ALLOWABLE STRENGTHS SHALL BE COMPARED TO ALLOWABLE STRESS DESIGN (ASD) LEVEL DEMAND IN ACCORDANCE WITH THE 2013 CBC SECTION 1605A.3.1.
2. ALLOWABLE STRENGTHS SHOWN IN TABLES ON CL1.23 ARE FOR SINGLE ANCHORS WHICH MEET MIN. REQUIREMENTS PER TABLE AND SECTION BELOW.
3. MINIMUM CONCRETE STRENGTH $f'c$ = 3000 PSI.
4. EXPANSION ANCHORS INSTALLED THROUGH LOWER FLUTES OF METAL DECK SHALL MEET THE REQUIREMENTS OF THE INSTALLATION CRITERIA AND SECTION BELOW.
5. STEEL DECK TO BE MIN 20 GA. B-DECK.
6. MINIMUM CONCRETE FILL DEPTH ABOVE THE TOP OF THE METAL DECK PER SECTION AND INSTALLATION CRITERIA BELOW.
7. EXPANSION ANCHORS SHALL NOT BE USED IN PRE-STRESSED CONCRETE UNLESS NON-DESTRUCTIVE TESTING METHODS ARE USED TO LOCATE STRAND & REINFORCING PRIOR TO ANCHOR INSTALLATION.
8. EXPANSION ANCHOR INSTALLATION SHALL NOT NICK OR DAMAGE EXISTING REINFORCEMENT. SHOULD THIS OCCUR, THE RDP IN RESPONSIBLE CHARGE SHALL BE NOTIFIED IMMEDIATELY. EXPANSION ANCHORS SHALL BE INSTA' CLEAR OF EXISTING REINFORCEMENT.
9. EXPANSION ANCHORS SHALL BE INSTALLED PER CURRENT ICC-ES EVALUATION REPORT OR REPORT FROM OTHER TESTING AGENCY ACCEPTABLE TO OSHPD.
10. TESTING OF EXPANSION ANCHORS SHALL BE PER 2013 CBC SECTION 1913A.7.
11. REFER TO NOTE 6C ON CL0.00 FOR ADDITIONAL EXPANSION ANCHOR REQUIREMENTS.
12. ALL VALUES IN TABLES ARE FOR CRACKED CONCRETE & INCLUDE REDUCTION BASED ON ACI 318-11 D.3.3.4.4 REQUIREMENTS. THE ALLOWABLE STRENGTHS ARE BASED UPON THE LEAST OF THE ALLOWABLE STRENGTHS CALCULATED USING THE ICC ESRS 1917 AND 2502 AND USING AN α FACTOR OF 1.4.
13. REFER TO NOTE 6A ON CL0.00 FOR ADDITIONAL SHEET METAL SCREW REQUIREMENTS.
14. ALL VALUES IN TABLE REFLECT ALLOWABLE STRENGTHS WITH 20% ALLOWABLE STRESS INCREASE FOR LOAD COMBINATIONS WITH OVERSTRENGTH FACTOR IN ACCORDANCE WITH ASCE 7-10 SECTION 12.4.3.3.



SECTION - COMPOSITE B-DECK

	ANCHOR DIAMETER	EFFECTIVE EMBEDMENT	MIN EDGE DISTANCE	MIN SPACING
UNDERSIDE INSTALLATION **	3/8"	2"	6"	6 3/4"
	1/2"	2"	7"	6 3/4"

** UNDERSIDE APPLICATION ONLY.

Section Title : OSHPD STANDARD SUSPENDED CEILING DETAILS — OPD No:
Sheet Title : EXPANSION ANCHOR GENERAL NOTES (INSTALLED IN CONCRETE FILLED METAL B DECK) — CL1.22

5/9/2017 9:06:03 AM

SHEET METAL SCREW (SMS) ALLOWABLE STRENGTHS

TABLE 1
SHEET METAL SCREW ALLOWABLE STRENGTHS FOR STEEL TO STEEL CONNECTIONS.

Fy (KSI)	MIL (STEEL GA)	FASTENER SIZE NO. 14 0.250 IN SHEAR (LB)	NO. 14 0.250 IN TENSION (LB)	NO. 12 0.216 IN SHEAR (LB)	NO. 12 0.216 IN TENSION (LB)	NO. 10 0.190 IN SHEAR (LB)	NO. 10 0.190 IN TENSION (LB)	NO. 8 0.164 IN SHEAR (LB)	NO. 8 0.164 IN TENSION (LB)	NO. 6 0.138 IN SHEAR (LB)	NO. 6 0.138 IN TENSION (LB)
50	97 (12)	704	275	525	205	-	-	-	-	-	-
	68 (14)	704	275	525	205	405	159	-	-	-	-
	54 (16)	613	261	525	205	405	159	303	118	-	-
33	43 (18)	302	144	280	124	263	109	244	94	165	79
	33 (20)	-	-	-	-	177	84	164	72	151	61

NOTES:
1. SEE GENERAL NOTES ON CL1.30 FOR ADDITIONAL INFORMATION .
2. WHERE ONE OR TWO LAYERS OF GYP BOARD OCCURS BETWEEN STEEL SURFACES, THE ALLOWABLE VALUES OF TABLE 2 & 3 SHALL BE USED.
3. ALLOWABLE STRENGTH VALUES DO NOT ACCOUNT FOR EFFECTS FROM PRYING. THE RDP IN RESPONSIBLE CHARGE OF THE PROJECT SHALL PROVIDE ADEQUATE BLOCKING/RESTRAINT TO PREVENT PRYING ACTION. WHERE PRYING OCCURS, THE VALUES AND CONSTRAINTS OF TABLE 4 SHALL BE USED.

TABLE 2 - NON-PRYING CONDITION
SHEET METAL SCREW ALLOWABLE STRENGTHS FOR STEEL TO STEEL CONNECTIONS. WITH ONE LAYER OF 5/8" GYP BOARD BETWEEN STEEL SURFACES.

Fy (KSI)	MIL (STEEL GA)	FASTENER SIZE NO. 14 0.250 IN SHEAR (LB)	NO. 14 0.250 IN TENSION (LB)	NO. 12 0.216 IN SHEAR (LB)	NO. 12 0.216 IN TENSION (LB)	NO. 10 0.190 IN SHEAR (LB)	NO. 10 0.190 IN TENSION (LB)	NO. 8 0.164 IN SHEAR (LB)	NO. 8 0.164 IN TENSION (LB)	NO. 6 0.138 IN SHEAR (LB)	NO. 6 0.138 IN TENSION (LB)
50	97 (12)	226	275	180	205	-	-	-	-	-	-
	68 (14)	226	275	180	205	140	159	-	-	-	-
	54 (16)	226	261	180	205	140	159	120	118	-	-
33	43 (18)	226	144	180	124	140	109	120	94	60	79
	33 (20)	-	-	-	-	100	84	80	72	60	61

NOTES:
1. SEE GENERAL NOTES ON CL1.30 FOR ADDITIONAL INFORMATION .
2. ALLOWABLE STRENGTH VALUES DO NOT ACCOUNT FOR EFFECTS FROM PRYING. THE RDP IN RESPONSIBLE CHARGE OF THE PROJECT SHALL PROVIDE ADEQUATE BLOCKING/RESTRAINT TO PREVENT PRYING ACTION. WHERE PRYING OCCURS, THE VALUES AND CONSTRAINTS OF TABLE 4 SHALL BE USED.

Section Title : OSHPD STANDARD SUSPENDED CEILING DETAILS — OPD No:
Sheet Title : SHEET METAL SCREW ALLOWABLE STRENGTHS - PAGES 1 OF 2 — CL1.31

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5/9/2017 9:06:03 AM

POWER ACTUATED FASTENER (PAF) GENERAL NOTES (INSTALLED IN STEEL)

1. MINIMUM STEEL TENSILE STRENGTH F_u =58KSI
2. MINIMUM SPACING 1 INCH.
3. MINIMUM EDGE DISTANCE 1/2 INCH.
4. USE KNURLED SHANK.
5. POWER ACTUATED FASTENERS (PAF) SHALL BE INSTALLED PER CURRENT ICC-ES EVALUATION EVALUATION REPORTS OR REPORTS FROM OTHER TESTING AGENCIES ACCEPTABLE TO OSHPD.
6. SEE GENERAL NOTE 6d & 6e ON CL0.00 FOR PAF REQUIREMENTS & ATTACHMENT TO STEEL.
7. POWER ACTUATED FASTENER (PAF), POWDER DRIVEN FASTENERS (PDF), POWER DRIVEN PINS (PDP), SHOT PINS, ARE COMMON NOMINCLATURES THAT ALL REPRESENT THE SAME FASTENER DESCRIBED HERE IN.
8. ALLOWABLE STRENGTHS SHALL BE COMPARED TO ALLOWABLE STRESS DESIGN (ASD) LEVEL DEMAND IN ACCORDANCE WITH THE 2013 CBC SECTION 1605A.3.1.
9. ALLOWABLE STRENGTHS ARE FOR SINGLE FASTENERS, WHICH MEET THE REQUIREMENTS PER NOTES ABOVE. THE ALLOWABLE STRENGTHS ARE BASED UPON THE LEAST OF THE ALLOWABLE STRENGTHS LISTED IN THE ESRS 1799, 2024, 2138 & 2269.
10. TOTAL ALLOWABLE TENSION, SHEAR OR TENSION SHEAR COMBINATION SHALL NOT EXCEED 250 LBS. AS PERMITTED BY THE EXCEPTION TO ASCE 7-10 SECTION 13.4.5.

NOMINAL SHANK DIAMETER (IN)	STEEL THICKNESS (IN) 3/16 TENSION (LB)	3/16 SHEAR (LB)	1/4 TENSION (LB)	1/4 SHEAR (LB)	3/8 TENSION (LB)	3/8 SHEAR (LB)	1/2 TENSION (LB)	1/2 SHEAR (LB)
0.145 MIN	155	250	230	260	250	250	190	220

Section Title : OSHPD STANDARD SUSPENDED CEILING DETAILS — OPD No:
Sheet Title : POWER ACTUATED FASTENER (PAF) IN STEEL — CL1.12

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POWER ACTUATED FASTENER (PAF) GENERAL NOTES (INSTALLED IN CONCRETE FILLED METAL B-DECK)

1. POWER ACTUATED FASTENER (PAF), POWER DRIVEN FASTENERS (PDF), POWER DRIVEN PINS (PDP), SHOT PINS ALL REPRESENT THE SAME FASTENER AND WILL HEREAFTER BE REFERRED TO AS POWER ACTUATED FASTENERS (PAF).
2. ALLOWABLE STRENGTHS SHALL BE COMPARED TO ALLOWABLE STRESS DESIGN (ASD) LEVEL DEMAND IN ACCORDANCE WITH THE 2013 CBC SECTION 1605A.3.1.
3. ALLOWABLE STRENGTHS ARE FOR A SINGLE FASTENER WHICH MEET REQUIREMENTS IN SECTIONS BELOW AND TABLES ON CL1.14. THE ALLOWABLE STRENGTHS ARE BASED UPON THE LEAST OF THE ALLOWABLE STRENGTHS LISTED IN ICC ESRS 2024, 2138, & 2269.
4. MINIMUM CONCRETE STRENGTH $f'c$ = 3000 PSI FOR NORMAL WEIGHT CONCRETE AND $f'c$ = 3000 PSI FOR ALL LIGHT WEIGHT CONCRETE UNLESS NOTED OTHERWISE.
5. POWER ACTUATED FASTENER INSTALLED THROUGH LOW FLUTES OF THE METAL DECK SHALL MEET THE REQUIREMENTS OF THE INSTALLTION CRITERIA AND SECTION BELOW.
6. MINIMUM EDGE DISTANCE OF 7/8" FROM THE EDGE OF METAL DECK WEB AND 4" FROM THE EDGE OF THE DECK.
7. STEEL DECK TO BE A MINIMUM OF 20 GA. B-DECK.
8. CONCRETE FILL DEPTH ABOVE THE TOP OF METAL DECK MUST BE A MINIMUM OF 2 1/2" AT NORMAL WEIGHT OR LIGHT WEIGHT CONCRETE COMPOSITE METAL DECK.
9. PAF SHALL NOT BE USED TO RESIST SEISMIC SHEAR FORCES EXCEPT AT INTERIOR NON-LOAD BEARING, NON-SHEAR WALL PARTITION WALLS (AS PERMITTED BY 2013 CBC 1908A.1.11) AND COMPONENTS EXEMPT FROM CONSTRUCTION DOCUMENT REVIEW BY 2013 CBC SECTION 1616A.1.18 (NOT PERMITTED TO TAKE SEISMIC SHEAR BY ICC-ES AC70 FOR ANY OTHER CONDITIONS). PAF SHALL NOT BE USED TO CARRY SEISMIC TENSION LOADS (EXCEPT FOR VERTICAL SEISMIC LOAD PRODUCED BY SELF WEIGHT OF THE COMPONENTS) OR IN CRACKED CONCRETE UNLESS APPROVED FOR SUCH LOADING BY OSHPD.
10. PAF SHALL NOT BE USED IN PRE-STRESSED CONCRETE UNLESS NON-DESTRUCTIVE TESTING METHODS ARE USED TO LOCATE STRAND & REINFORCING PRIOR TO FASTENER INSTALLATION.
11. PAF INSTALLATION SHALL NOT NICK OR DAMAGE EXISTING CONCRETE REINFORCEMENT. SHOULD THIS OCCUR THE RDP IN RESPONSIBLE CHARGE SHALL BE NOTIFIED IMMEDIATELY. PAF SHALL BE INSTAL' CLEAR OF EXISTING REINFORCEMENT. THIS MAY REQUIRE NON-DESTRUCTIVE TESTING.
12. PAF SHALL BE INSTALLED PER CURRENT ICC-ES EVALUATION REPORTS (OR REPORTS FROM OTHER TESTING AGENCIES ACCEPTABLE TO OSHPD).
13. TESTING OF PAF SHALL BE PER 2013 CBC SECTION 1913A.7. MINIMUM CONCRETE SUBSTRATE THICKNESS IS THREE TIMES THE PAF PENETRATION INTO THE CONCRETE SUBSTRATE.
14. TESTING IS NOT REQUIRED OF PAF USED TO ATTACH TRACKS OF INTERIOR NON-SHEAR WALL PARTITIONS FOR SHEAR ONLY WHERE THERE ARE AT LEAST THREE FASTENERS.
15. TOTAL ALLOWABLE LOADS IN TENSION, SHEAR OR TENSION SHEAR COMBINATIONS SHALL NOT EXCEED 90 LBS AS PERMITTED BY EXCEPTION TO THE ASCE 7-10 SECTION 13.4.5.
16. REFER TO NOTE 6d ON CL0.00 FOR ADDITIONAL PAF REQUIREMENTS.

Section Title : OSHPD STANDARD SUSPENDED CEILING DETAILS — OPD No:
Sheet Title : POWER ACTUATED FASTENER (PAF) IN CONCRETE FILLED METAL B DECK) — CL1.13

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POWER ACTUATED FASTENER (PAF) ALLOWABLE STRENGTHS (INSTALLED IN CONCRETE FILLED B-DECK)

TABLE 1
POWER ACTUATED FASTENER INSTALLED TO THE UNDERSIDE OF NORMAL WEIGHT OR SAND-LIGHTWEIGHT CONCRETE THROUGH B-DECK ($f'c$ MIN = 3000 PSI)

NOMINAL SHANK DIAMETER (IN)	MIN. EMBED (IN)	MIN. SPACING (IN)	MIN. EDGE DISTANCE (IN)	TENSION (LB) SEE NOTE 15	SHEAR (LB) SEE NOTE 15
0.157 MIN	1"	4"	4"	90	90

Section Title : OSHPD STANDARD SUSPENDED CEILING DETAILS — OPD No:
Sheet Title : POWER ACTUATED FASTENER (PAF) IN CONCRETE FILLED METAL B DECK) — CL1.14

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15. **CEILING FIXTURES, TERMINALS, AND DEVICES:**
   a. CEILING PANELS SHALL NOT SUPPORT ANY LIGHT FIXTURES, AIR TERMINALS/GRILLS, OR OTHER DEVICES (REFERRED TO ALL BY COMMON TERM FIXTURES HERE AFTER).
   b. ALL FIXTURES SHALL BE MOUNTED IN A MANNER THAT WILL NOT COMPROMISE CEILING PERFORMANCE.
   c. ALL FIXTURES SHALL BE ATTACHED TO THE SUSPENDED CEILING SYSTEM BY MECHANICAL MEANS, UNLESS INDEPENDENTLY SUPPORTED. THE ATTACHMENT DEVICE SHALL HAVE THE CAPACITY OF 100% OF FIXURE WEIGHT ACTING IN ANY DIRECTION . A MINIMUM OF TWO ATTACHMENT DEVICES ARE REQUIRED FOR EACH FIXTURE.
   d. SURFACE MOUNTED FIXTURES SHALL BE ATTACHED TO THE MAIN RUNNER WITH POSITIVE CLAMPING DEVICES MADE OF MATERIAL WITH A MINIMUM 14 GAGE . A NO 12 GAUGE SAFETY WIRES SHALL BE ATTACHED BETWEEN THE CLAMPING DEVICE AND TO THE STRUCTURE ABOVE. IN NO CASE SHALL THE FIXTURES EXCEED THE DESIGN CAPACITY OF THE SUPPORTING MEMBERS.
   e. ALL LIGHT FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 LB. SHALL HAVE ONE NO. 12 GAUGE SAFETY WIRE CONNECTED FROM FIXURE HOUSING TO STRUCTURE ABOVE. IT IS NOT NECESSARY FOR THESE SAFETY WIRES TO BE TAUT.
   f. ALL FIXTURES WEIGHING GREATER THAN 10 LB BUT LESS THAN OR EQUAL TO 56 LB. SHALL HAVE TWO NO. 12 GAUGE SAFETY WIRE CONNECTED FROM FIXURE HOUSING TO STRUCTURE ABOVE. IT IS NOT NECESSARY FOR THESE SAFETY WIRES TO BE TAUT.
   g. ALL FIXTURES WEIGHING GREATER THAN 56 LB. SHALL BE SUPPORTED DIRECTLY FROM STRUCTURE ABOVE BY APPROVED HANGERS.
   h. PENDENT-HUNG FIXTURES SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE USING NO LESS THAN NO. 9-GAUGE WIRE OR AN APPROVED ALTERNATE SUPPORT . THE CEILING SUSPENSION SYSTEM SHALL NOT PROVIDE ANY DIRECT SUPPORT.
   i. ALL RECESSED OR DROP-IN FIXTURES SHALL BE SUPPORTED DIRECTLY FROM FIXTURE HOUSING TO THE STRUCTURE ABOVE WITH A MINIMUM OF TWO NO. 12 GAUGE WIRES LOCATED AT DIAGONALLY OPPOSITE CORNERS . LEVELLING OR POSITIONING OF FIXTURES MAY BE PROVIDED BY CEILING GRID . FIXTURE SUPPORT WIRES MAY BE SLIGHTLY LOOSE TO ALLOW THE FIXTURE TO SEAT IN THE GRID SYSTEM. FIXTURES SHALL NOT BE SUPPORTED FROM MAIN RUNNERS OR CROSS RUNNERS IF THE WEIGHT OF THE FIXTURES CAUSES TOTAL DEAD LOAD TO EXCEED THE DEFLECTION CAPABILITY OF THE CEILING SUSPENSION SYSTEM.

16. **ADDITIONAL REQUIREMENTS:**
   a. CEILINGS THAT ARE PART OF A FIRE RATED ASSEMBLY, PROVIDE A DETAIL AND DESIGN NUMBER FOR RATED CEILING ASSEMBLIES FROM AN APPROVED TESTING AGENCY. THE COMPONENTS AND INSTALLATION DETAILS CONFORM IN EVERY RESPECT TO THE LISTED DETAIL AND NUMBER. DETAILS SHALL CLEARLY DEPICT ALL COMPONENTS, INCLUDING INSULATION MATERIALS. FRAMING AND ATTACHMENT OF THE DESIGN SO THAT THE ASSEMBLY CAN BE CONSTRUCTED AND INSPECTED ACCORDINGLY. POP RIVETS, SCREWS, OR OTHER ATTACHMENTS ARE NOT ACCEPTABLE UNLESS SPECIFICALLY DETAILED ON THE DRAWINGS AND APPROVED BY APPROVED TESTING AGENCY.
   b. METAL AND OTHER PANELIKE METAL PANELS AND PANELS WEIGHING MORE THAN 1/2 PSF, OTHER THAN MINERAL FIBER ACOUSTICAL TILE, ARE TO BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION RUNNERS.
   c. BUILDING EXIT WAYS: CEILINGS IN EXIT WAYS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 13.5.6.2.2(1) OF ASCE 7-10 AS AMENDED BY 2013 CBC SECTION 1616A.1.20. SPLICES OR INTERSECTION OF RUNNERS SHALL BE ATTACHED WITH THROUGH CONNECTORS SUCH AS POP RIVETS, SCREWS, PINS, PLATES WITH END TABS OR OTHER APPROVED CONNECTORS.

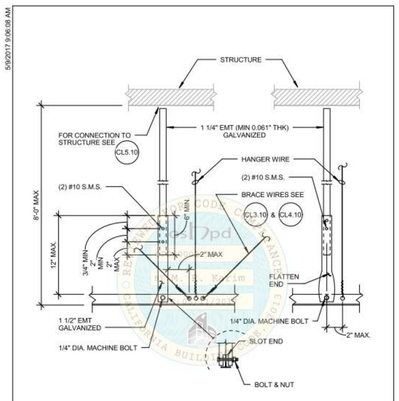
Section Title : OSHPD STANDARD SUSPENDED CEILING DETAILS — OPD No:
Sheet Title : GENERAL NOTES - PAGE 4 OF 4 — CL0.03

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POWER ACTUATED FASTENER (PAF) GENERAL NOTES (INSTALLED IN CONCRETE OVER METAL DECK OR CONC SLAB)

1. POWER ACTUATED FASTENER (PAF), POWDER DRIVEN FASTENERS (PDF), POWER DRIVEN PINS (PDP), SHOT PINS ALL REPRESENT THE SAME FASTENER AND WILL HEREAFTER BE REFERRED TO AS POWER ACTUATED FASTENERS (PAF).
2. ALLOWABLE STRENGTHS SHALL BE COMPARED TO ALLOWABLE STRESS DESIGN (ASD) LEVEL DEMAND IN ACCORDANCE WITH THE 2013 CBC SECTION 1605A.3.1.
3. ALLOWABLE STRENGTHS ARE FOR A SIN

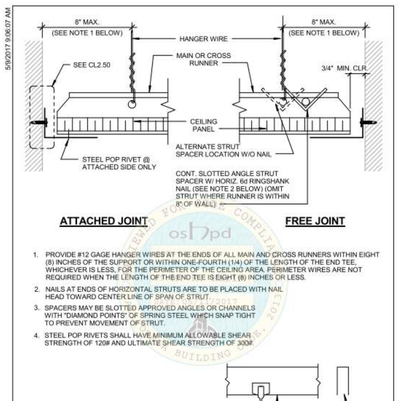
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OPTION 1 **OPTION 2**

SEE OPTION 1 FOR INFORMATION NOT SHOWN

Section Title: OSHPD STANDARD SUSPENDED CEILING DETAILS		OPD No.
Sheet Title: SUSPENDED ACOUSTICAL CEILING - TUBE TYPE STRUT		CL3.20

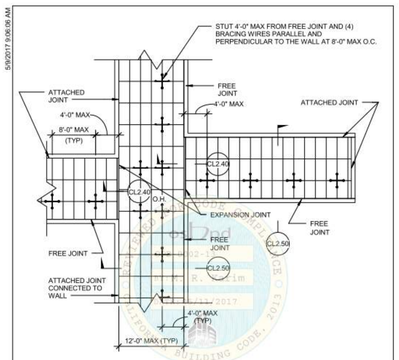


ATTACHED JOINT **FREE JOINT**

1. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS. FOR THE PERIMETER OF THE CEILING AREA, PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.
2. NAILS AT ENDS OF HORIZONTAL STRUTS ARE TO BE PLACED WITH NAIL HEAD TOWARD CENTER LINE OF SPAN OF STRUT.
3. SPACERS MAY BE SLOTTED APPROVED ANGLES OR CHANNELS WITH "DIAMOND POINTS" OF SPRING STEEL WHICH SNAP TIGHT TO PREVENT MOVEMENT OF STRUT.
4. STEEL POP RIVETS SHALL HAVE MINIMUM ALLOWABLE SHEAR STRENGTH OF 120# AND ULTIMATE SHEAR STRENGTH OF 300#.

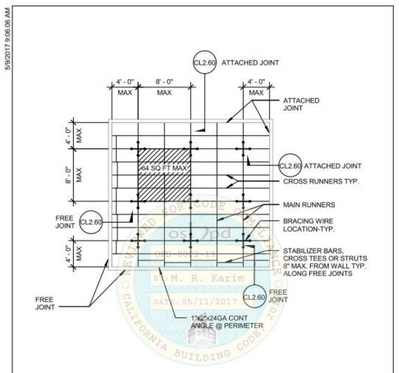
APPROVED SPACER

Section Title: OSHPD STANDARD SUSPENDED CEILING DETAILS		OPD No.
Sheet Title: CEILING PERIMETER INCLUDING NON-EXITWAY CORRIDORS		CL2.60



LOCATION OF EXPANSION/SLIP JOINTS IN CORRIDORS

Section Title: OSHPD STANDARD SUSPENDED CEILING DETAILS		OPD No.
Sheet Title: SUSPENDED ACOUSTICAL CEILING-CORRIDOR CEILING PLAN		CL2.30



NOTES:
1. BRACING WIRES AND COMP. STRUT SHALL OCCUR AT EVERY 64 SQ. FT. MAX. IN ROOMS OVER 64 SQ. FT.
2. RDP MAY ELECT TO SPECIFY TIGHTER SPACING BETWEEN BRACING WIRES AND COMP. STRUTS TO ALLOW SMALLER ANCHORS PER SCHEDULES ON SHEETS CL4.31 & CL6.60.

Section Title: OSHPD STANDARD SUSPENDED CEILING DETAILS		OPD No.
Sheet Title: TYPICAL CEILING PLAN FOR $1.73 < S_{DS} \leq 2.50$ AND z/h <= 1.0		CL2.20

SHEET METAL SCREW (SMS) ALLOWABLE STRENGTHS (CONTINUED)

TABLE 3 - NON-PRYING CONDITION

SHEET METAL SCREW ALLOWABLE STRENGTHS FOR STEEL TO STEEL CONNECTIONS WITH TWO LAYERS OF 5/8" GYP BOARD BETWEEN STEEL SURFACES

		FASTENER SIZE							
		NO. 14		NO. 12		NO. 10		NO. 8	NO. 6
F_{xx} (KSI)	MIL (STEEL GA)	0.250 IN		0.216 IN		0.190 IN		0.164 IN	0.138 IN
		SHEAR (LB)	TENSION (LB)	SHEAR (LB)	TENSION (LB)	SHEAR (LB)	TENSION (LB)	SHEAR (LB)	SHEAR (LB)
50	97 (12)	166	275	130	205	-	-	-	-
	68 (14)	166	275	130	205	100	159	-	-
	54 (16)	166	261	130	205	100	159	80	118
33	43 (18)	166	144	130	124	100	109	80	94
	33 (20)	-	-	-	-	70	84	50	72

NOTES:
1. SEE GENERAL NOTES ON CL1.30 FOR ADDITIONAL INFORMATION.
2. ALLOWABLE STRENGTH VALUES DO NOT ACCOUNT FOR EFFECTS FROM PRYING. THE RDP IN RESPONSIBLE CHARGE TO PROVIDE ADEQUATE BLOCKING/RESTRAINT TO PREVENT PRYING ACTION. WHERE PRYING OCCURS, THE VALUES AND CONSTRAINTS OF TABLE 4 SHALL BE USED.

TABLE 4 - PRYING CONDITION (SEE DETAILS BELOW - STRUT CAN BE HORIZONTAL OR VERTICAL)

SHEET METAL SCREW ALLOWABLE STRENGTHS FOR STEEL TO STEEL CONNECTIONS WITH ONE OR TWO LAYERS OF 5/8" GRP BOARD BETWEEN STEEL SURFACES AND MAXIMUM PRYING MOMENT ARM OF 1 5/8"

		FASTENER SIZE							
		NO. 14		NO. 12		NO. 10		NO. 8	NO. 6
F_{xx} (KSI)	MIL (STEEL GA)	0.250 IN		0.216 IN		0.190 IN		0.164 IN	0.138 IN
		SHEAR (LB)	TENSION (LB)	SHEAR (LB)	TENSION (LB)	SHEAR (LB)	TENSION (LB)	SHEAR (LB)	SHEAR (LB)
50	97 (12)	40	275	30	205	-	-	-	-
	68 (14)	40	275	30	205	25	159	-	-
	54 (16)	40	261	30	205	25	159	20	118
33	43 (18)	40	144	30	124	25	109	20	94
	33 (20)	-	-	-	-	15	84	15	72

NOTES:
1. SEE GENERAL NOTES ON CL1.30 FOR ADDITIONAL INFORMATION.
2. ALLOWABLE STRENGTH VALUES LISTED IN TABLE 4 ARE BASED UPON A LIMITED TEST ASSEMBLY WHERE THE ORIGIN AND DIRECTION OF THE LOAD RESULTS IN PRYING UPON THE FASTENER. THE MAGNITUDE OF THIS PRYING EFFECT SHALL BE LIMITED TO A MOMENT ARM OF 1.5/8" FROM THE FASTENER.

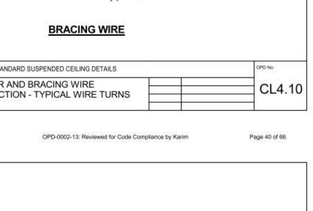


WALL ELEV WITH LOAD APPLIED THROUGH STRUT **PLAN VIEW**

Section Title: OSHPD STANDARD SUSPENDED CEILING DETAILS		OPD No.
Sheet Title: SHEET METAL SCREW ALLOWABLE STRENGTHS - PAGES 2 OF 2		CL1.32



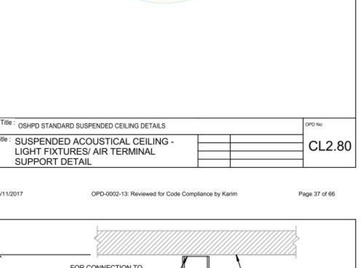
HANGER WIRE



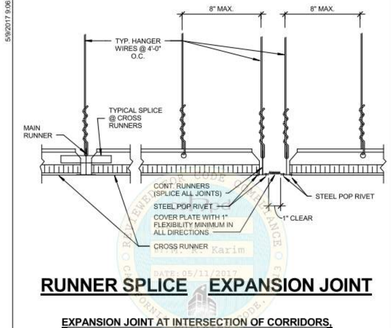
BRACING WIRE

Section Title: OSHPD STANDARD SUSPENDED CEILING DETAILS		OPD No.
Sheet Title: HANGER AND BRACING WIRE CONNECTION - TYPICAL WIRE TURNS		CL4.10

NOTES:
1. SEE GENERAL NOTE #15 ON CL0.03



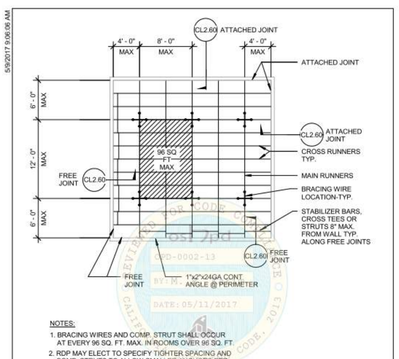
Section Title: OSHPD STANDARD SUSPENDED CEILING DETAILS		OPD No.
Sheet Title: SUSPENDED ACOUSTICAL CEILING - LIGHT FIXTURES/ AIR TERMINAL SUPPORT DETAIL		CL2.80



RUNNER SPLICE EXPANSION JOINT

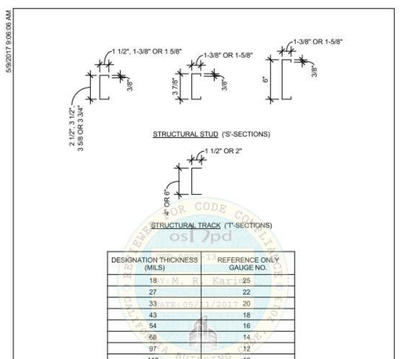
EXPANSION JOINT AT INTERSECTION OF CORRIDORS, JUNCTIONS OF CORRIDORS AND LOBBIES, SIMILAR AREAS AND CEILING OVER 2500 SFT

Section Title: OSHPD STANDARD SUSPENDED CEILING DETAILS		OPD No.
Sheet Title: SUSPENDED ACOUSTICAL CEILING - EXPANSION JOINT AT INTERSECTIONS		CL2.40



NOTES:
1. BRACING WIRES AND COMP. STRUT SHALL OCCUR AT EVERY 96 SQ. FT. MAX. IN ROOMS OVER 96 SQ. FT.
2. RDP MAY ELECT TO SPECIFY TIGHTER SPACING AND COMP. STRUTS TO ALLOW SMALLER ANCHORS PER SCHEDULES ON SHEETS CL4.31 & CL6.60.

Section Title: OSHPD STANDARD SUSPENDED CEILING DETAILS		OPD No.
Sheet Title: TYPICAL CEILING PLAN FOR $1.15 < S_{DS} \leq 1.73$ AND z/h <= 1.0		CL2.21



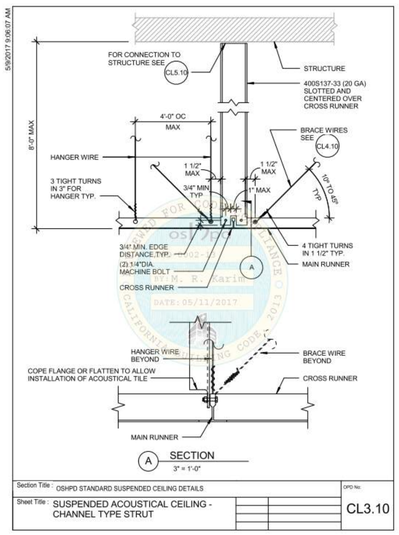
DESIGNATION THICKNESS (MILS)	REFERENCE ONLY GAUGE NO.
18	25
27	22
33	20
43	18
54	16
68	14
97	12
118	10

NOTE:
1. F_y = 50KSI FOR 54 MIL (16GA) & THICKER SECTIONS, AND F_y = 33KSI FOR SECTIONS UP TO & INCLUDING 43 MI (18GA).
2. SIZE AND THICKNESS ARE CONSIDERED MINIMUMS.
3. STRUCTURAL STUDS SHALL NOT BE PUNCHED UNLESS NOTED OTHERWISE.

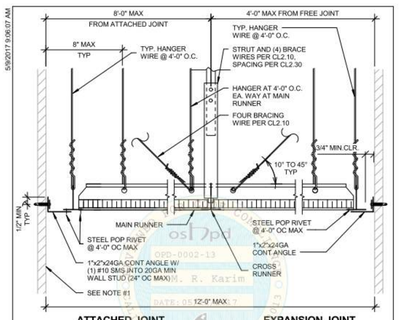
Section Title: OSHPD STANDARD SUSPENDED CEILING DETAILS		OPD No.
Sheet Title: METAL STUD PROFILES		CL1.40

STRUCTURAL CONDITION OF FLOOR/ ROOF ABOVE SUSPENDED CEILING	APPLICABLE HANGER WIRE DETAIL	APPLICABLE BRACING WIRE DETAIL
CONCRETE OVER METAL DECK	CL4.21	CL4.31
CONCRETE SLAB, BEAM, OR JOIST	CL4.22	CL4.32
STRUCTURAL STEEL	CL4.23	CL4.33
SAWN TIMBER	CL4.24	CL4.34
METAL STUD WALL	CL4.25	CL4.35

Section Title: OSHPD STANDARD SUSPENDED CEILING DETAILS		OPD No.
Sheet Title: HANGER AND BRACING WIRE CONNECTION MATRIX		CL4.11



Section Title: OSHPD STANDARD SUSPENDED CEILING DETAILS		OPD No.
Sheet Title: SUSPENDED ACOUSTICAL CEILING - CHANNEL TYPE STRUT		CL3.10



ATTACHED JOINT **EXPANSION JOINT**

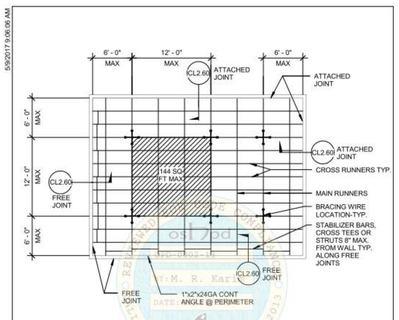
ACCEPTABLE EXITWAY DETAILS

NOTES:
1. PERIMETER WALLS SHALL BE DESIGNED TO CARRY TRIBUTARY LATERAL FORCES PER TABLE BELOW. RDP TO VERIFY. RDP TO SPECIFY CONNECTION OF BACKING TO STUDS

S_{DS}	Fp
$S_{DS} \leq 1.15$	9.3 plf
$1.15 < S_{DS} \leq 1.73$	14.0 plf
$1.73 < S_{DS} \leq 2.50$	20.9 plf

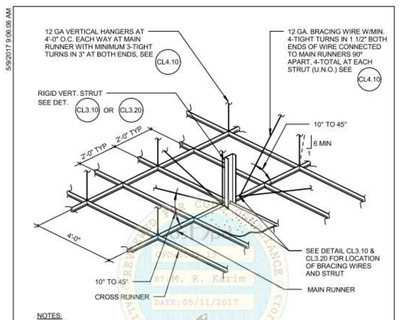
2. SEISMIC BRACING WIRES AND STRUTS IN ACCORDANCE WITH PAGES CL2.20, CL2.21, AND CL2.22 SHALL BE PERMITTED IN LIEU OF DESIGNING PERIMETER WALLS FOR SEISMIC FORCES AND BRACING SYSTEM SHOWN ON PAGE CL2.30 AND THIS PAGE.
3. STEEL POP RIVET SHALL HAVE MINIMUM ALLOWABLE SHEAR STRENGTH OF 120# AND ULTIMATE SHEAR STRENGTH OF 300#.

Section Title: OSHPD STANDARD SUSPENDED CEILING DETAILS		OPD No.
Sheet Title: TYPICAL CEILING SECTION AT EXITWAY CORRIDORS		CL2.50



NOTES:
1. BRACING WIRES AND COMP. STRUT SHALL OCCUR AT EVERY 144 SQ. FT. MAX. IN ROOMS OVER 144 SQ. FT.
2. RDP MAY ELECT TO SPECIFY TIGHTER SPACING AND COMP. STRUTS TO ALLOW SMALLER ANCHORS PER SCHEDULES ON SHEETS CL4.31 & CL6.60.

Section Title: OSHPD STANDARD SUSPENDED CEILING DETAILS		OPD No.
Sheet Title: TYPICAL CEILING PLAN FOR $S_{DS} \leq 1.15$ AND z/h <= 1.0		CL2.22



NOTES:
1. SEE SUSPENDED CEILING NOTES #13 & #14 ON CL0.02
2. STRUTS SHALL NOT REPLACE HANGER WIRES.
3. FOR CONDITIONS AT CORRIDOR SEE DRAWING NO. CL2.30

Section Title: OSHPD STANDARD SUSPENDED CEILING DETAILS		OPD No.
Sheet Title: SUSPENDED CEILING BRACING ASSEMBLY		CL2.10

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Rev.	Description	Date
	ISSUE FOR PLAN REVIEW BACKCHECK	21 JAN 2022
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	ISSUE FOR PLANNING	15 DEC 2020
	ISSUE FOR GRADING PERMIT	03 DEC 2020
	AGENCY APPROVAL	

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Drawing Title:

CEILING DETAILS

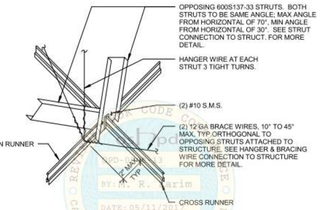
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Project No.: 006240.00 Checked by: Checker

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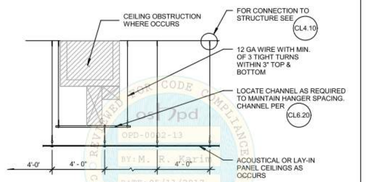
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OPPOSING STRUT FOR CEILING

Section Title: OSHPD STANDARD SUSPENDED CEILING DETAILS		OPD No:
Sheet Title: OBSTRUCTION-COUNTER SLOPING STRUTS		CL6.30

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TRAPEZE SUPPORT

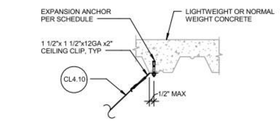
Section Title: OSHPD STANDARD SUSPENDED CEILING DETAILS		OPD No:
Sheet Title: OBSTRUCTION - TRAPEZE CONDITION		CL6.10

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STRUCTURAL CONDITION OF FLOOR / ROOF ABOVE STRUT	APPLICABLE DETAIL
CONCRETE OVER METAL DECK	CL5.20
CONCRETE SLAB, BEAM, OR JOIST	CL5.30
STRUCTURAL STEEL	CL5.40
SAWN TIMBER WITH GYPSUM BOARD	CL5.50
SAWN TIMBER WITHOUT GYPSUM BOARD	CL5.60

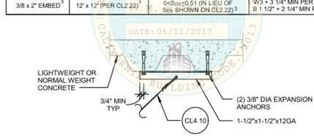
Section Title: OSHPD STANDARD SUSPENDED CEILING DETAILS		OPD No:
Sheet Title: STRUT CONNECTION - CONNECTION MATRIX		CL5.10

5/9/2017 9:06:09 AM



OPTION 1

ANCHOR BOLT SIZE	SPLAY BRACE/COMP POST SPACING	S_{DS} (g) RANGE (z/h = 1.0)	DECK TYPE
5/8 x 4 1/4" EMBED	8' x 8' (PER CL2.20)	$1.73<S_{DS}\leq 2.5$ (PER CL2.20)	W3 + 3 1/4" MIN PER CL1.20
5/8 x 4 1/4" EMBED	8' x 12' (PER CL2.21)	$1.15<S_{DS}\leq 1.73$ (PER CL2.21)	W3 + 3 1/4" MIN PER CL1.20
5/8 x 4 1/4" EMBED	12' x 12' (PER CL2.22)	$0<S_{DS}\leq 1.15$ (PER CL2.22)	W3 + 3 1/4" MIN PER CL1.20
3/8 x 2" EMBED[3]	8' x 8' (PER CL2.20)[3]	$0.76<S_{DS}\leq 1.14$ (IN LIEU OF S_{DS} SHOWN ON CL2.20)[3]	W3 + 3 1/4" MIN PER CL1.20 OR B 1 1/2" + 2 1/4" MIN PER CL1.22
3/8 x 2" EMBED[3]	8' x 12' (PER CL2.21)[3]	$0.51<S_{DS}\leq 0.76$ (IN LIEU OF S_{DS} SHOWN ON CL2.21)[3]	W3 + 3 1/4" MIN PER CL1.20 OR B 1 1/2" + 2 1/4" MIN PER CL1.22
3/8 x 2" EMBED[3]	12' x 12' (PER CL2.22)[3]	$0<S_{DS}\leq 0.51$ (IN LIEU OF S_{DS} SHOWN ON CL2.22)[3]	W3 + 3 1/4" MIN PER CL1.20 OR B 1 1/2" + 2 1/4" MIN PER CL1.22



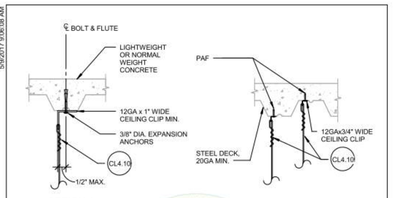
OPTION 2

NOTES:

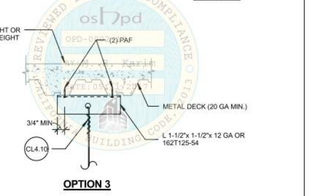
1. LOAD TEST IN ACCORDANCE WITH GENERAL NOTE 14(g), PAGE CL0.02 SHALL BE REQUIRED
2. REFER TO CL4.10 FOR ADDITIONAL DETAILS
3. RDP CAN USE SMALLER EXPANSION BOLT SIZE AND SHALLOWER EMBEDMENT DEPTH SHOWN, PROVIDED VERTICAL STRUT/BRACING WIRE SPACING IS REDUCED AS SHOWN, IN LIEU OF SPACINGS SHOWN ON CL2.20, CL2.21, AND CL2.22.

Section Title: OSHPD STANDARD SUSPENDED CEILING DETAILS		OPD No:
Sheet Title: BRACING WIRE CONNECTION TO CONCRETE OVER METAL DECK		CL4.31

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OPTION 1 **OPTION 2**



OPTION 3

NOTES:

1: LOAD TEST IN ACCORDANCE WITH GENERAL NOTE 14(g), PAGE CL0.02 SHALL BE REQUIRED

2. REFER TO CL4.10 FOR ADDITIONAL DETAILS

Section Title: OSHPD STANDARD SUSPENDED CEILING DETAILS		OPD No:
Sheet Title: HANGER WIRE CONNECTION TO CONCRETE OVER METAL DECK		CL4.21

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ISOMETRIC VIEW **SIDE VIEW**

T-BAR CEILING - WIRE OBSTRUCTION DETAIL W/ STUD KICKER, LESS BRACING WIRES, TO DECK.

Section Title: OSHPD STANDARD SUSPENDED CEILING DETAILS		OPD No:
Sheet Title: OBSTRUCTION-STUD KICKER TO OVERHEAD		CL6.50

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WALL WHERE OCCURS



SPAN	SECTION
4'-0"	250S162-43
8'-0"	400S162-54
12'-0"	(2) 400S162-54

DBL. SECTION

Section Title: OSHPD STANDARD SUSPENDED CEILING DETAILS		OPD No:
Sheet Title: OBSTRUCTION-BRIDGE AT LARGE OFFSET CONDITION		CL6.20

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OPTION 1 **OPTION 2**

CHANNEL STRUT

OPTION 1 **OPTION 2**

TUBE STRUT

Section Title: OSHPD STANDARD SUSPENDED CEILING DETAILS		OPD No:
Sheet Title: STRUT CONNECTION TO CONCRETE OVER METAL DECK		CL5.20

5/9/2017 9:06:09 AM

BRACING WIRE

NOTES:

1. BEAM FLANGE THICKNESS SHALL NOT BE LESS THAN 3/16" OR MORE THAN 3/8"
2. FRAMING MEMBERS SHALL BE DESIGNED TO CARRY THE CEILING LOADS, RDP TO VERIFY
3. RDP IN RESPONSIBLE CHARGE, I.O.R. AND CONTRACTOR SHALL VERIFY THAT NO PAF IS INSTALLED IN THE PROTECTED ZONE OF ANY STEEL MEMBER, SEE ANSI/AISC 341-10.

Section Title: OSHPD STANDARD SUSPENDED CEILING DETAILS		OPD No:
Sheet Title: BRACING WIRE CONNECTION TO STRUCTURAL STEEL		CL4.33

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HANGER WIRE

NOTES:

1. BEAM FLANGE THICKNESS SHALL NOT BE LESS THAN 3/16" OR MORE THAN 3/8"
2. FRAMING MEMBERS SHALL BE DESIGNED TO CARRY THE CEILING LOADS, RDP TO VERIFY
3. RDP IN RESPONSIBLE CHARGE, I.O.R. AND CONTRACTOR SHALL VERIFY THAT NO PAF IS INSTALLED IN THE PROTECTED ZONE OF ANY STEEL MEMBER, SEE ANSI/AISC 341-10.

Section Title: OSHPD STANDARD SUSPENDED CEILING DETAILS		OPD No:
Sheet Title: HANGER WIRE CONNECTION TO STRUCTURAL STEEL		CL4.23

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SIDE VIEW

KICKER SCHEDULE			
	SPAN	MATERIAL	SSMA
≤	4'-0"	18 GA	250S137-43
≤	8'-0"	18 GA	400S162-43
≤	14'-0"	16 GA	400S162-54

WALL STUD GAUGE	CONN TO WALL STUD	CONN TO WALL STUD ALT[3]
20 GA	(5) #10x1-1/4" SMS	(3) #10x1-1/4" SMS
18 GA	(4) #10x1-1/4" SMS	(2) #10x1-1/4" SMS

NOTE:
1. KICKER BRACING IS AN ALTERNATE TO BRACING WIRES. THIS METHOD MAY BE USED IN LIEU OF OPPOSING WIRES AT ATTACHED JOINT ONLY, NOT PERMITTED AT FREE JOINT
2. RDP SHALL DESIGN FRAMED WALLS TO CARRY THE CEILING LOADS
3. APPLIES WHERE CLIP ATTACHED DIRECTLY TO WALL STUD.

T-BAR CEILING - WIRE OBSTRUCTION DETAIL W/ STUD KICKER, LESS BRACING WIRES, TO WALL

Section Title: OSHPD STANDARD SUSPENDED CEILING DETAILS		OPD No:
Sheet Title: OBSTRUCTION-STUD KICKER TO WALL - PAGE 1 OF 2		CL6.60

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SADDLE TIE AT MAIN RUNNER TO HANGER WIRE

Section Title: OSHPD STANDARD SUSPENDED CEILING DETAILS		OPD No:
Sheet Title: SADDLE TIE DETAIL		CL6.21

5/9/2017 9:06:10 AM

CHANNEL STRUT

OPTION 1 **OPTION 2**

TUBE STRUT

NOTES:

1. STRUCTURAL STEEL MEMBER SHALL HAVE A MINIMUM FLANGE THICKNESS OF 3/16" AND MAXIMUM OF 3/8".
2. FRAMING MEMBERS MUST BE DESIGNED TO CARRY THE CEILING LOADS, RDP TO VERIFY.
3. RDP IN RESPONSIBLE CHARGE, I.O.R. AND CONTRACTOR SHALL VERIFY THAT NO PAF IS INSTALLED IN THE PROTECTED ZONE OF ANY STEEL MEMBER, SEE ANSI/AISC 341-10.
4. SEE PAGES CL5.20 & CL5.30 FOR ADDITIONAL INFORMATION.

Section Title: OSHPD STANDARD SUSPENDED CEILING DETAILS		OPD No:
Sheet Title: STRUT CONNECTION TO STRUCTURAL STEEL		CL5.40

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WALL STUD GAUGE	CONN TO WALL STUD	CONN TO WALL STUD ALT[3]
20 GA	(5) #10x1-1/4" SMS	(3) #10x1-1/4" SMS
18 GA	(4) #10x1-1/4" SMS	(2) #10x1-1/4" SMS

NOTES:

1. RDP SHALL DESIGN FRAMING WALL TO CARRY THE CEILING LOAD PER NOTE #2.
2. SEISMIC BRACE WIRE FORCE = 473 LBS (LRFD LOAD). BRACING WIRE SHALL HAVE A MINIMUM STRETCH LENGTH (CLR LENGTH BTWN TURNS) OF 12", WHEN USED AT FREE JOINT.
3. APPLIES WHERE CLIP ATTACHED DIRECTLY TO WALL STUD.

Section Title: OSHPD STANDARD SUSPENDED CEILING DETAILS		OPD No:
Sheet Title: BRACING WIRE CONNECTION TO METAL STUD WALL		CL4.35

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OPTION 1 **OPTION 2**

NOTES:

1. THIS IS APPLIED FOR PERIMETER WIRE ATTACHEMENT OR WHERE OBSTRUCTION PREVENTS ATTACHMENT TO STRUCTURE ABOVE
2. RDP SHALL DESIGN FRAMING WALL TO CARRY THE CEILING LOAD. SEE TABLE BELOW FOR LOADS. LOADS ASSUME A TRIBUTARY AREA OF 16 SQ FT AND ARE UNFACTORED.
3. WALLS SHALL BE DESIGNED FOR HANGER FORCES BELOW. AT FREE JOINT, HANGER WIRE SHALL HAVE A MINIMUM STRETCH LENGTH (CLR LENGTH BTWN TURNS) OF12"

OPTION 3

HANGER FORCES

	VERTICAL	HORIZONTAL
DEAD	64 LBS	11 LBS
SEISMIC (0.14S_{DS} x W_P)		
S_{DS} <= 1.15	11 LBS	2 LBS
1.15 < S_{DS} <= 1.73	16 LBS	3 LBS
1.73 < S_{DS} <= 2.50	23 LBS	4 LBS

Section Title: OSHPD STANDARD SUSPENDED CEILING DETAILS		OPD No:
Sheet Title: HANGER WIRE CONNECTION TO METAL STUD WALL		CL4.25

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REN.: 10-31-2023
STATE OF CALIFORNIA

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Project No.: 006240.00 Checked by: Checker

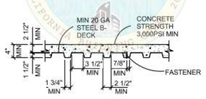
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POWER ACTUATED FASTENER (PAF) GENERAL NOTES (INSTALLED IN CONCRETE FILLED METAL B-DECK)

1. POWER ACTUATED FASTENER (PAF), POWER DRIVEN FASTENERS (PDF), POWER DRIVEN PINS (PDP), SHOT PINS ALL REPRESENT THE SAME FASTENER AND WILL HEREAFTER BE REFERRED TO AS POWER ACTUATED FASTENERS (PAF).
2. ALLOWABLE STRENGTHS SHALL BE COMPARED TO ALLOWABLE STRESS DESIGN (ASD) LEVEL DEMAND IN ACCORDANCE WITH THE 2013 CBC SECTION 1605A.3.1.
3. ALLOWABLE STRENGTHS ARE FOR A SINGLE FASTENER WHICH MEET REQUIREMENTS PER SECTION BELOW AND TABLES ON GX1.14. THE ALLOWABLE STRENGTHS ARE BASED UPON THE LEAST OF THE ALLOWABLE STRENGTHS LISTED IN ICC ESRS 2024, 2138, & 2269.
4. MINIMUM CONCRETE STRENGTH $f'c$ = 3000 PSI FOR NORMAL WEIGHT CONCRETE AND $f'c$ = 3000 PSI FOR ALL LIGHT WEIGHT CONCRETE UNLESS NOTED OTHERWISE.
5. POWER ACTUATED FASTENER INSTALLED THROUGH LOW FLUTES OF THE METAL DECK SHALL MEET THE REQUIREMENTS OF THE INSTALLTION CRITERIA AND SECTION BELOW.
6. MINIMUM EDGE DISTANCE OF 7/8" FROM THE EDGE OF METAL DECK WEB AND 4" FROM THE EDGE OF THE DECK.
7. STEEL DECK TO BE A MINIMUM OF 20 GA. B-DECK.
8. CONCRETE FILL DEPTH ABOVE THE TOP OF METAL DECK MUST BE A MINIMUM OF 2 1/2" AT NORMAL WEIGHT OR LIGHT WEIGHT CONCRETE COMPOSITE METAL DECK.
9. PAF SHALL NOT BE USED TO RESIST SEISMIC SHEAR FORCES EXCEPT AT INTERIOR NON-LOAD BEARING, NON-SHEAR WALL PARTITION WALLS (AS PERMITTED BY 2013 CBC 1908A.1.11) AND COMPONENTS EXEMPT FROM CONSTRUCTION DOCUMENT REVIEW BY 2013 CBC SECTION 1616A.1.18 (NOT PERMITTED TO TAKE SEISMIC SHEAR BY ICC-ES AC70 FOR ANY OTHER CONDITIONS). PAF SHALL NOT BE USED TO CARRY SEISMIC TENSION LOADS (EXCEPT FOR VERTICAL SEISMIC LOAD PRODUCED BY SELF WEIGHT OF THE COMPONENTS) OR IN CRACKED CONCRETE UNLESS APPROVED FOR SUCH LOADING BY OSHPD.
10. PAF SHALL NOT BE USED IN PRE-STRESSED CONCRETE UNLESS NON-DESTRUCTIVE TESTING METHODS ARE USED TO LOCATE STRAND & REINFORCING PRIOR TO FASTENER INSTALLATION.
11. PAF INSTALLATION SHALL NOT NICK OR DAMAGE EXISTING CONCRETE REINFORCEMENT. SHOULD THIS OCCUR THE RDP IN RESPONSIBLE CHARGE SHALL BE NOTIFIED IMMEDIATELY. PAF SHALL BE INSTAL" CLEAR OF EXISTING REINFORCEMENT. THIS MAY REQUIRE NON-DESTRUCTIVE TESTING.
12. PAF SHALL BE INSTALLED PER CURRENT ICC-ES EVALUATION REPORTS (OR REPORTS FROM OTHER TESTING AGENCIES ACCEPTABLE TO OSHPD).
13. TESTING OF PAF SHALL BE PER 2013 CBC SECTION 1913A.7. MINIMUM CONCRETE SUBSTRATE THICKNESS IS THREE TIMES THE PAF PENETRATION INTO THE CONCRETE SUBSTRATE.
14. TESTING IS NOT REQUIRED OF PAF USED TO ATTACH TRACKS OF INTERIOR NON-SHEAR WALL PARTITIONS FOR SHEAR ONLY WHERE THERE ARE AT LEAST THREE FASTENERS.
15. TOTAL ALLOWABLE LOADS IN TENSION, SHEAR OR TENSION SHEAR COMBINATIONS SHALL NOT EXCEED 90 LBS AS PERMITTED BY EXCEPTION TO THE ASCE 7-10 SECTION 13.4.5.
16. REFER TO NOTE 6d ON CG0.00 FOR ADDITIONAL PAF REQUIREMENTS.

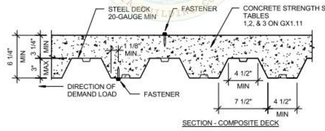


Section Title: OSHPD STANDARD GYPSUM BOARD CEILING DETAILS — OPD No:
Sheet Title: POWER ACTUATED FASTENER (PAF) GENERAL NOTES (INSTALLED IN CONCRETE FILLED METAL B DECK) — GX1.13

5/9/2017 9:07:29 AM

POWER ACTUATED FASTENER (PAF) GENERAL NOTES
(INSTALLED IN CONCRETE OVER METAL DECK OR CONC SLAB)

1. POWER ACTUATED FASTENER (PAF), POWDER DRIVEN FASTENERS (PDF), POWER DRIVEN PINS (PDP), SHOT PINS ALL REPRESENT THE SAME FASTENER AND WILL HEREAFTER BE REFERRED TO AS POWER ACTUATED FASTENERS (PAF).
2. ALLOWABLE STRENGTHS SHALL BE COMPARED TO ALLOWABLE STRESS DESIGN (ASD) LEVEL DEMAND IN ACCORDANCE WITH THE 2013 CBC SECTION 1605A.3.1.
3. ALLOWABLE STRENGTHS ARE FOR A SINGLE FASTENER WHICH MEET REQUIREMENTS IN SECTIONS BELOW AND TABLES ON GX1.11. THE ALLOWABLE STRENGTHS ARE BASED UPON THE LEAST OF THE ALLOWABLE STRENGTHS LISTED IN THE ICC ESRS 1799, 2024, 2138 & 2269.
4. MINIMUM CONCRETE STRENGTH f'_c =2000 PSI FOR NORMAL WEIGHT CONCRETE AND f'_c =3000 PSI FOR ALL LIGHT WEIGHT CONCRETE UNLESS OTHERWISE NOTED.
5. POWER ACTUATED FASTENER INSTALLED THROUGH LOW FLUTES OF THE METAL DECK SHALL MEET THE REQUIREMENTS OF THE INSTALLATION CRITERIA AND SECTIONS BELOW.
6. MINIMUM EDGE DISTANCE OF 1 1/8" FROM THE EDGE OF METAL DECK WEB AND 4" FROM THE EDGE OF THE DECK.
7. STEEL DECK TO BE A MINIMUM OF 20GA.
8. CONCRETE FILL DEPTH ABOVE THE TOP OF METAL DECK SHALL BE A MINIMUM OF 3 1/4" LIGHT WEIGHT CONCRETE.
9. PAF SHALL NOT BE USED TO RESIST SEISMIC SHEAR FORCES EXCEPT AT INTERIOR NON-LOAD BEARING, NON-SHEAR WALL PARTITION WALLS (AS PERMITTED BY 2013 CBC SECTION 1908A.1.1) AND COMPONENTS EXEMPT FROM CONSTRUCTION DOCUMENT REVIEW BY 2013 CBC SECTION 1616A.1.18 (NOT PERMITTED TO TAKE SEISMIC SHEAR BY ICC-ES AC70 FOR ANY OTHER CONDITIONS). PAF SHALL NOT BE USED TO CARRY SEISMIC TENSION LOADS (EXCEPT FOR VERTICAL SEISMIC LOAD PRODUCED BY SELF WEIGHT OF THE COMPONENTS) OR IN CRACKED CONCRETE UNLESS APPROVED FOR SUCH LOADING BY OSHPD.
10. PAF SHALL NOT BE USED IN PRE-STRESSED CONCRETE UNLESS NON-DESTRUCTIVE TESTING METHODS ARE USED TO LOCATE STRAND AND REINFORCEMENT PRIOR TO FASTENER INSTALLATION.
11. PAF INSTALLATION SHALL NOT NICK OR DAMAGE EXISTING CONCRETE REINFORCEMENT. SHOULD THIS OCCUR THE RDP IN RESPONSIBLE CHARGE SHALL BE NOTIFIED IMMEDIATELY. PAF SHALL BE INSTALLED 1" CLEAR OF EXISTING REINFORCEMENT. THIS MAY REQUIRE NON-DESTRUCTIVE TESTING.
12. PAF SHALL BE INSTALLED PER CURRENT ICC-ES EVALUATION REPORTS (OR REPORTS FROM OTHER TESTING AGENCIES ACCEPTABLE TO OSHPD).
13. TESTING OF PAF SHALL BE IN ACCORDANCE WITH 2013 CBC SECTION 1913A.7. MINIMUM CONCRETE SUBSTRATE THICKNESS SHALL BE THREE TIMES THE PAF PENETRATION INTO THE CONCRETE SUBSTRATE.
14. TESTING IS NOT REQUIRED OF PAF USED TO ATTACH TRACKS OF INTERIOR NON-SHEAR WALL PARTITIONS FOR SHEAR ONLY WHERE THERE ARE AT LEAST THREE FASTENERS.
15. TOTAL ALLOWABLE LOADS IN TENSION, SHEAR OR TENSION SHEAR COMBINATIONS SHALL NOT EXCEED 90 LBS AS PERMITTED BY EXCEPTION TO ASCE 7-10 SECTION 13.4.5.
16. REFER TO NOTE 6d ON CG0.00 FOR ADDITIONAL PAF REQUIREMENTS.



SECTION - COMPOSITE DECK

Section Title: OSHPD STANDARD GYPSUM BOARD CEILING DETAILS — OPD No:
Sheet Title: POWER ACTUATED FASTENER (PAF) IN CONCRETE OVER METAL DECK OR CONCRETE SLAB - PAGE 1 OF 2 — GX1.10

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POWER ACTUATED FASTENER (PAF) ALLOWABLE STRENGTHS
(INSTALLED IN CONCRETE FILLED B-DECK)

TABLE 1
POWER ACTUATED FASTENER INSTALLED TO THE UNDERSIDE OF NORMAL WEIGHT OR SAND-LIGHTWEIGHT CONCRETE THROUGH B-DECK ($f'c$ MIN = 3000 PSI)

NOMINAL SHANK DIAMETER (IN)	MIN. EMBED (IN)	MIN. SPACING (IN)	MIN. EDGE DISTANCE (IN)	TENSION (LB) SEE NOTE 15	SHEAR (LB) (SEE NOTE 15)
0.157 MIN	1"	4"	4"	90	90

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Section Title: OSHPD STANDARD GYPSUM BOARD CEILING DETAILS — OPD No:
Sheet Title: POWER ACTUATED FASTENER (PAF) ALLOWABLE STR (INSTALLED IN CONCRETE FILLED METAL B DECK) — GX1.14

5/9/2017 9:07:29 AM

POWER ACTUATED FASTENER (PAF) ALLOWABLE STRENGTHS
(INSTALLED IN CONCRETE OVER METAL DECK OR CONC SLAB)

TABLE 1
POWER ACTUATED FASTENER INSTALLED IN SAND-LIGHTWEIGHT CONCRETE THROUGH METAL DECK (f'_c MIN=3000 PSI)

NOMINAL SHANK DIAMETER (IN)	MIN EMBED (IN)	MIN SPACING (IN)	MIN EDGE DISTANCE (IN)	TENSION (LB) (SEE NOTE 15)	SHEAR (LB) (SEE NOTE 15)
0.145 MIN	1 1/4	4	4	90	90

TABLE 2
POWER ACTUATED FASTENERS INSTALLED INTO STRUCTURAL SAND-LIGHTWEIGHT CONCRETE (f'_c MIN=3000 PSI)

NOMINAL SHANK DIAMETER (IN)	MIN EMBED (IN)	MIN SPACING (IN)	MIN EDGE DISTANCE (IN)	TENSION (LB) (SEE NOTE 15)	SHEAR (LB) (SEE NOTE 15)
0.145 MIN	1 1/4	4	4	90	90

TABLE 3
POWER ACTUATED FASTENER INSTALLED INTO NORMAL-WEIGHT CONCRETE (f'_c MIN=2000 PSI)

NOMINAL SHANK DIAMETER (IN)	MIN EMBED (IN)	MIN SPACING (IN)	MIN EDGE DISTANCE (IN)	TENSION (LB) (SEE NOTE 15)	SHEAR (LB) (SEE NOTE 15)
0.145 MIN	1 1/4	5.1	4	90	90

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Section Title: OSHPD STANDARD GYPSUM BOARD CEILING DETAILS — OPD No:
Sheet Title: POWER ACTUATED FASTENER (PAF) IN CONCRETE OVER METAL DECK OR CONCRETE SLAB - PAGE 2 OF 2 — GX1.11

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EXPANSION ANCHOR GENERAL NOTES

1. ALLOWABLE STRENGTHS SHALL BE COMPARED TO ALLOWABLE STRESS DESIGN (ASD) LEVEL DEMAND IN ACCORDANCE WITH THE 2013 CBC SECTION 1605A.3.1.
2. ALLOWABLE STRENGTHS ARE FOR SINGLE ANCHORS WHICH MEET MIN. REQUIREMENTS IN ACCORDANCE WITH THE TABLE & SECTION BELOW.
3. MINIMUM CONCRETE STRENGTH $f'c$=3000 PSI.
4. EXPANSION ANCHORS INSTALLED THROUGH UPPER OR LOWER FLUTES OF METAL DECK SHALL MEET THE REQUIREMENTS OF THE INSTALLATION CRITERIA AND SECTION BELOW.
5. STEEL DECK TO BE MIN. 20 GA. W-DECK.
6. MINIMUM CONCRETE FILL DEPTH ABOVE THE TOP OF METAL DECK IN ACCORDANCE WITH THE SECTION AND INSTALLATION CRITERIA BELOW.
7. EXPANSION ANCHORS SHALL NOT BE USED IN PRE-STRESSED CONCRETE UNLESS NON-DESTRUCTIVE TESTING METHODS ARE USED TO LOCATE STRAND & REINFORCING PRIOR TO ANCHOR INSTALLATION.
8. EXPANSION ANCHOR INSTALLATION SHALL NOT NICK OR DAMAGE EXISTING REINFORCEMENT. SHOULD THIS OCCUR THE RDP IN RESPONSIBLE CHARGE SHALL BE NOTIFIED IMMEDIATELY. EXPANSION ANCHORS SHALL BE INSTALLED 1" CLEAR OF EXISTING REINFORCEMENT.
9. EXPANSION ANCHORS SHALL BE INSTALLED PER CURRENT ICC-ES EVALUATION REPORT OR REPORT FROM OTHER TESTING AGENCY ACCEPTABLE TO OSHPD.
10. TESTING OF EXPANSION ANCHORS SHALL BE IN ACCORDANCE WITH 2013 CBC SECTION 1913A.7.
11. EXPANSION ANCHORS SHALL BE INSTALLED TO COMPLY WITH THE MINIMUM SLAB THICKNESS REQUIREMENTS ESTABLISHED BY THE ICC-ESR FOR THE SPECIFIED ANCHOR.
12. REFER TO NOTE 6c ON CG0.00 FOR ADDITIONAL EXPANSION ANCHOR REQUIREMENTS.
13. ALL VALUES IN TABLES ARE FOR CRACKED CONCRETE & INCLUDE REDUCTION BASED ON ACI 318-11 SECTION D.3.3.4 REQUIREMENTS. THE ALLOWABLE STRENGTHS ARE BASED UPON THE LEAST OF THE ALLOWABLE STRENGTHS CALCULATED USING THE ICC ESRS 1917, 2427, 2502 & 3037 AND USING AN ALLOWABLE STRENGTH CONVERSION FACTOR OF 1.4.
14. ALL VALUES IN THE TABLE REFLECT ALLOWABLE STRENGTHS WITH 20% STRESS INCREASE FOR LOAD COMBINATIONS WITH OVERSTRENGTH FACTOR IN ACCORDANCE WITH ASCE 7-10 SECTION 12.4.3.3.



EXPANSION ANCHORS INSTALLATION CRITERIA

	NOMINAL ANCHOR DIAMETER (IN)				
	3/8	1/2		5/8	
EFFECTIVE MIN EMBEDMENT (IN)	2	2 1/4	3 1/4	3 1/8	4
MIN MEMBER THICKNESS NWC SLAB OR BEAM ONLY (IN)	4.5	4.5	6	6	7 1/4
MIN ANCHOR SPACING (3 x EMBED) (IN)	6 3/4	6 3/4	9 3/4	9 3/8	12
MIN EDGE DISTANCE (IN)	6	7	7 1/2	6 1/2	8 3/4

Section Title: OSHPD STANDARD GYPSUM BOARD CEILING DETAILS — OPD No:
Sheet Title: EXPANSION ANCHOR GENERAL NOTES — GX1.20

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POWER ACTUATED FASTENER (PAF) GENERAL NOTES (INSTALLED IN STEEL)

1. MINIMUM STEEL TENSILE STRENGTH F_u =58KSI
2. MINIMUM SPACING 1 INCH.
3. MINIMUM EDGE DISTANCE 1/2 INCH.
4. USE KNURLED SHANK.
5. POWER ACTUATED FASTENERS (PAF) SHALL BE INSTALLED PER CURRENT ICC-ES EVALUATION EVALUATION REPORTS OR REPORTS FROM OTHER TESTING AGENCIES ACCEPTABLE TO OSHPD.
6. SEE GENERAL NOTE 6d & 6e ON CG0.00 FOR PAF REQUIREMENTS & ATTACHMENT TO STEEL.
7. POWER ACTUATED FASTENER (PAF), POWEDER DRIVEN FASTENERS (PDF), POWER DRIVEN PINS (PDP), SHOT PINS, ARE COMMON NOMINCLATURES THAT ALL REPRESENT THE SAME FASTENER DESCRIBED HERE IN.
8. ALLOWABLE STRENGTHS SHALL BE COMPARED TO ALLOWABLE STRESS DESIGN (ASD) LEVEL DEMAND IN ACCORDANCE WITH THE 2013 CBC SECTION 1605A.3.1.
9. ALLOWABLE STRENGTHS ARE FOR SINGLE FASTENERS, WHICH MEET THE REQUIREMENTS PER NOTES ABOVE. THE ALLOWABLE STRENGTHS ARE BASED UPON THE LEAST OF THE ALLOWABLE STRENGTHS LISTED IN THE ESRS 1799, 2024, 2138 & 2269.
10. TOTAL ALLOWABLE TENSION, SHEAR OR TENSION SHEAR COMBINATION SHALL NOT EXCEED 250 LBS. AS PERMITTED BY THE EXCEPTION TO ASCE 7-10 SECTION 13.4.5.

NOMINAL SHANK DIAMETER (IN)	STEEL THICKNESS (IN)							
	3/16		1/4		3/8		1/2	
	TENSION (LB)	SHEAR (LB)	TENSION (LB)	SHEAR (LB)	TENSION (LB)	SHEAR (LB)	TENSION (LB)	SHEAR (LB)
0.145 MIN	155	250	230	250	250	250	190	220

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Section Title: OSHPD STANDARD GYPSUM BOARD CEILING DETAILS — OPD No:
Sheet Title: POWER ACTUATED FASTENER (PAF) IN STEEL — GX1.12

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ANCHOR BOLT SIZE	SPLAY BRACE/COMP POST SPACING	SDS (g) RANGE (α = 1.0)	DECK TYPE
5/8 x 4 1/4" EMBED	8' x 8' (PER CL2.20)	$1.73 \times S_{DS} \geq 2.5$ (PER CL2.20)	W3 + 3 1/4" MIN PER CL1.20
5/8 x 4 1/4" EMBED	8' x 12' (PER CL2.21)	$1.15 \times S_{DS} \geq 1.73$ (PER CL2.21)	W3 + 3 1/4" MIN PER CL1.20
5/8 x 4 1/4" EMBED	12' x 12' (PER CL2.22)	$0 < S_{DS} \leq 1.15$ (PER CL2.22)	W3 + 3 1/4" MIN PER CL1.20
3/8 x 2" EMBED[1]	8' x 8' (PER CL2.20)[1]	$0.90 \times S_{DS} \leq 1.35$ (IN LIEU OF S_{DS} SHOWN ON CL2.20)[1]	W3 + 3 1/4" MIN PER CL1.20 OR B 1 1/2" + 2 1/4" MIN PER CL1.22
3/8 x 2" EMBED[1]	8' x 12' (PER CL2.21)[1]	$0.60 \times S_{DS} \leq 0.90$ (IN LIEU OF S_{DS} SHOWN ON CL2.21)[1]	W3 + 3 1/4" MIN PER CL1.20 OR B 1 1/2" + 2 1/4" MIN PER CL1.22
3/8 x 2" EMBED[1]	12' x 12' (PER CL2.22)[1]	$0 < S_{DS} \leq 0.60$ (IN LIEU OF S_{DS} SHOWN ON CL2.22)[1]	W3 + 3 1/4" MIN PER CL1.20 OR B 1 1/2" + 2 1/4" MIN PER CL1.22

NOTE:

1. RDP CAN USE SMALLER EXPANSION BOLT SIZE AND SHALLOWER EMBEDMENT DEPTH SHOWN, PROVIDED VERTICAL STRUT/BRACING WIRE SPACING IS REDUCED AS SHOWN, IN LIEU OF SPACINGS SHOWN ON CL2.20, CL2.21, AND CL2.22.

Section Title: OSHPD STANDARD SUSPENDED CEILING DETAILS — OPD No:
Sheet Title: OBSTRUCTION-STUD KICKER TO WALL - PAGE 2 OF 2 — CL6.61

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17. GYPSUM BOARD INSTALLATION SHALL COMPLY WITH ASTM C840-11:

a. GYPSUM BOARD SHALL CONSIST OF SINGLE-PLY ½" OR 5/8" THICK IN ACCORDANCE WITH ASTM C11-10a.

b. GYPSUM BOARD SHALL BE INSTALLED PERPENDICULAR TO FURRING WITH SCREWS AT 12" ON CENTER MAXIMUM, IN ACCORDANCE WITH ASTM C840-11.

c. GYPSUM BOARD SHALL BE ATTACHED TO FURRING/FRAMING WITH ASTM C1002-07 TYPE S (ASTM A568-11b GRADES 1018 TO 1022) SCREWS (NOT LESS THAN, NO. 6, WITH MAJOR DIAMETER NOT LESS THAN 0.136 IN).

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7. DESIGN CRITERIA

a. BUILDING CODE: 2013 CALIFORNIA BUILDING CODE (2013 CBC), ASCE 7-10, AISI S100-07/S2-10, AND ASTM C754-11. FOR LOAD COMBINATIONS, ALLOWABLE STRESS DESIGN SHALL BE IN ACCORDANCE WITH 2013 CBC SECTION 1605A.3.1.

b. FASTENER CAPACITIES TABLES WERE DEVELOPED BASED ON ICC REPORTS BY SEVERAL MANUFACTURERS.

c. THE DESIGN ASSUMES THAT BUILDING ELEMENTS AND SUPPORTS, TO WHICH THE COMPONENTS ADDRESSED IN THIS DOCUMENT ARE ANCHORED, HAVE SUFFICIENT CAPACITY TO CARRY THE LOADS IMPOSED BY THE COMPONENTS IN COMBINATION WITH ALL OTHER LOADS. EVALUATION OF THE CAPACITY OF THESE SUPPORTING BUILDING ELEMENTS IS BEYOND THE SCOPE OF THE OPD.

d. THIS OPD IS LIMITED TO CEILING ASSEMBLIES HAVING MAXIMUM DEAD WEIGHT OF 4 PSF, INCLUDING LIGHTING FIXTURES (LUMINERES) AND MECHANICAL SERVICES, EACH WEIGHING LESS THAN 56 LBS AND ATTACHED TO CEILING FRAMING SYSTEM. HEAVIER SYSTEM AND THOSE SUPPORTING LATERAL FORCES FROM PARTITION WALLS ARE OUTSIDE THE SCOPE OF THIS OPD AND WILL REQUIRE PROJECT SPECIFIC DESIGN.

8. THE RDP IN RESPONSIBLE CHARGE SHALL VERIFY THE FIRE RESISTENCE AND ACOUSTICAL RATINGS FOR ALL CEILING ASSEMBLIES.

9. "CEILING WIRE" SHALL CONFORM WITH GALVANIZED SOFT ANNEALED MILD STEEL WIRE AS DEFINED IN ASTM A641 (CLASS 1 COATING) WITH 70 KSI MINIMUM TENSILE STRENGTH.

a. FOUR (4) TWISTS OF WIRE WITHIN 1.5" DEVELOPS THE ALLOWABLE LOAD FOR THE WIRE.

b. THREE (3) TWISTS WITHIN 3" MAY BE USED TO DEVELOP THE MAXIMUM 50% OF ALLOWABLE LOAD.

10. SUSPENSION SYSTEM COMPONENTS SHALL COMPLY WITH ASTM C754:

a. MAIN RUNNERS SHALL CONSIST OF 16 GAGE 1-1/2" COLD ROLLED U-CHANNEL 150U650-54 SPACED AT 4'-0" OC MAX. MAIN RUNNERS SHALL BE SUPPORTED BY HANGER WIRES AT 4'-0" OC MAX AND WITHIN 6" FROM EA END.

b. FURRING CHANNEL SHALL CONSIST OF 25 GAGE 7/8" (HAT) FURRING CHANNELS (0877125-18) at 2'-0" OC MAX. FURRING CHANNELS SHALL BE SADDLE TIED TO MAIN RUNNERS WITH 18 GAGE TIE WIRE OR A DOUBLE STRAND OF 18 GAGE TIE WIRE.

c. MAIN RUNNERS SHALL BE SPLICED BY LAPPING IN ACCORDANCE WITH CG2.31.

d. FURRING CHANNELS SHALL BE SPLICED BY LAPPING IN ACCORDANCE WITH CG2.31.

e. MAIN RUNNERS AND FURRING CHANNELS ALONG WITH THEIR SPLICES, INTERSECTION CONNECTORS, AND EXPANSION DEVICES SHALL BE DESIGNED AND CONSTRUCTED TO CARRY A MEAN ULTIMATE TEST LOAD OF NOT LESS THAN 270 LBS. IN COMPRESSION & TENSION.

f. HANGER AND BRACING WIRES SHALL BE #12 GAGE (0.105" DIAMETER), SOFT ANNEALED, AND GALVANIZED STEEL WIRES WITH CLASS 1 COATING. THEY MAY BE USED FOR UP TO 4'-0" OC AND INCLUDING 4'-0"x 4'-0" GRID SPACING ALONG AND ATTACHED TO MAIN RUNNERS. SPLICES ARE NOT PERMITTED IN ANY HANGER WIRE.

g. WIRE HANGERS SHALL BE SADDLE-TIED AROUND MAIN RUNNERS SO AS TO PREVENT TURNING OR TWISING OF THE MEMBER.

11. SUSPENSION SYSTEM INSTALLATION SHALL COMPLY WITH ASTM C754:

a. CEILING GRID MEMBERS SHALL BE ATTACHED TO TWO (2) ADJACENT WALLS. MAIN RUNNERS AND FURRING CHANNEL SHALL BE AT LEAST 1 INCH CLEAR OF OTHER WALL. IF WALLS RUN DIAGONAL TO THE CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN RUNNER AND FURRING SHOULD BE FREE WITH STANDARD CLEARANCES.

b. THE WIDTH OF THE PERIMETER SUPPORTING CLOSURE ANGLE SHALL BE NOT LESS THAN TWO (2) INCHES. USE OF ANGLES WITH SMALLER WIDTHS IN CONJUNCTION WITH PERIMETER CLIPS SHALL REQUIRE AN ALTERNATE METHOD OF COMPLIANCE WITH ADEQUATE JUSTIFICATION AND ARE OUTSIDE THE SCOPE OF THIS OPD.

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SHEET METAL SCREW (SMS) ALLOWABLE STRENGTHS (CONTINUED)
TABLE 1 - NON-PRYING CONDITION
SHEET METAL SCREW ALLOWABLE STRENGTHS FOR STEEL TO STEEL CONNECTIONS WITH TWO LAYERS OF 5/8" GYP BOARD BETWEEN STEEL SURFACES.

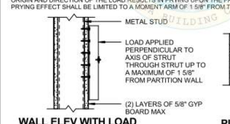
Fy (KSI)	MIL (STEEL GA)	FASTENER SIZE NO. 14 0.250 IN SHEAR (LB)	NO. 14 0.250 IN TENSION (LB)	NO. 12 0.216 IN SHEAR (LB)	NO. 12 0.216 IN TENSION (LB)	NO. 10 0.190 IN SHEAR (LB)	NO. 10 0.190 IN TENSION (LB)	NO. 8 0.164 IN SHEAR (LB)	NO. 8 0.164 IN TENSION (LB)	NO. 6 0.138 IN SHEAR (LB)	NO. 6 0.138 IN TENSION (LB)
50	97 (12)	166	275	130	205	-	-	-	-	-	-
	68 (14)	166	275	130	205	100	159	-	-	-	-
	54 (16)	166	261	130	205	100	159	80	118	-	-
	43 (18)	166	144	130	124	100	109	80	94	50	79
33	33 (20)	-	-	-	-	70	84	50	72	40	61

NOTES:
1. SEE GENERAL NOTES ON GX1.30 FOR ADDITIONAL INFORMATION .
2. ALLOWABLE STRENGTH VALUES DO NOT ACCOUNT FOR EFFECTS FROM PRYING. THE RDP IN RESPONSIBLE CHARGE TO PROVIDE ADEQUATE BLOCKING/RESTRAINT TO PREVENT PRYING ACTION. WHERE PRYING OCCURS, THE VALUES AND CONSTRAINTS OF TABLE 4 SHALL BE USED.

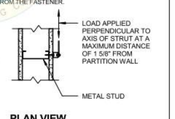
TABLE 4 - PRYING CONDITION (SEE DETAILS BELOW - STRUT CAN BE HORIZONTAL OR VERTICAL)
SHEET METAL SCREW ALLOWABLE STRENGTHS FOR STEEL TO STEEL CONNECTIONS WITH ONE OR TWO LAYERS OF 5/8" GRP BOARD BETWEEN STEEL SURFACES AND MAXIMUM PRYING MOMENT ARM OF 1 5/8"

Fy (KSI)	MIL (STEEL GA)	FASTENER SIZE NO. 14 0.250 IN SHEAR (LB)	NO. 14 0.250 IN TENSION (LB)	NO. 12 0.216 IN SHEAR (LB)	NO. 12 0.216 IN TENSION (LB)	NO. 10 0.190 IN SHEAR (LB)	NO. 10 0.190 IN TENSION (LB)	NO. 8 0.164 IN SHEAR (LB)	NO. 8 0.164 IN TENSION (LB)	NO. 6 0.138 IN SHEAR (LB)	NO. 6 0.138 IN TENSION (LB)
50	97 (12)	40	275	30	205	-	-	-	-	-	-
	68 (14)	40	275	30	205	25	159	-	-	-	-
	54 (16)	40	261	30	205	25	159	20	118	-	-
	43 (18)	40	144	30	124	25	109	20	94	10	79
33	33 (20)	-	-	-	-	15	84	15	72	10	61

NOTES:
1. SEE GENERAL NOTES ON GX1.30 FOR ADDITIONAL INFORMATION .
2. ALLOWABLE STRENGTH VALUES LISTED IN TABLE 4 ARE BASED UPON A LIMITED TEST ASSEMBLY WHERE THE ORIGIN AND DIRECTION OF THE LOAD RESULTS IN PRYING UPON THE FASTENER. THE MAGNITUDE OF THIS PRYING EFFECT SHALL BE LIMITED TO A MOMENT ARM OF 1 5/8" FROM THE FASTENER.



WALL ELEV WITH LOAD APPLIED THROUGH STRUT



PLAN VIEW

Section Title : OSHPD STANDARD GYPSUM BOARD CEILING DETAILS		OPD No:
Sheet Title : SHEET METAL SCREW ALLOWABLE STRENGTHS - PAGES 2 OF 2		GX1.32

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SHEET METAL SCREW (SMS) GENERAL NOTES

1. THE ALLOWABLE STRENGTHS ARE BASED UPON THE AISI S100-07/S2-10 AND ARE LIMITED BY ACTUAL TESTED STRENGTH OF THE SCREWS IN TENSION AND SHEAR.
2. THE ALLOWABLE STRENGTHS ARE BASED UPON THE LEAST OF THE AVERAGE TESTED TENSILE AND SHEAR STRENGTHS TABULATED FROM ICC ESR'S 1976, 2196, 1730, 1406, AND THE STEEL STUD MANUFACTURER'S ASSOCIATION (SSMA). FASTENER TYPES AND SIZES APPLY TO NON-PROPRIETARY FASTENER TYPES AND SIZES, AND DOES NOT ENDORSE A SPECIFIC MANUFACTURER. WHERE PROPRIETARY FASTENERS ARE SPECIFIED, NO EXCEPTIONS ARE TAKEN TO THE USE OF MANUFACTURER SPECIFIC VALUES THAT ARE BASED UPON THE AISI S100-07/S2-10, SECTION E4. ALL SCREW FASTENERS SHALL SATISFY ICC-ES AC118- ACCEPTANCE CRITERIA FOR SELF TAPPING SCREW FASTENERS.
3. TABLE 1 REPRESENTS ALLOWABLE TENSION AND SHEAR STRENGTHS FOR NON-PROPRIETARY SHEET METAL SCREWS FOR STEEL TO STEEL CONNECTIONS.
4. TABLES 2 AND 3 REPRESENT ALLOWABLE TENSION AND SHEAR STRENGTHS THAT INCORPORATE THE EFFECTS OF EITHER ONE (1) OR TWO (2) LAYERS OF 5/8" GYPSUM BOARD BETWEEN FASTENER HEAD AND CONNECTING STEEL MATERIAL.
5. IN ORDER TO USE THE VALUES IN TABLES 1, 2, AND 3, THE ATTACHMENTS SHALL BE DETAILED IN SUCH A WAY AS TO AVOID PRYING AND THE STUDS MUST BE STABILIZED WITH FULL-DEPTH BLOCKING WITH CONTINUOUS STRAPS ALONG THE FLANGES OR WITH BACKING BARS.
6. PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHOULD NOT BE LESS THAN THREE (3) EXPOSED THREADS.
7. STEEL THICKNESSES JOINED ARE ASSUMED TO BE THE SAME. IF DISSIMILAR THICKNESSES ARE BEING CONNECTED, THE VALUE FOR THE THINNER PART JOINED SHALL BE USED.
8. THE MINIMUM SPACING BETWEEN CENTERS OF FASTENERS SHALL NOT BE LESS THAN 3 X FASTENER DIAMETER. THE MINIMUM EDGE DISTANCE FROM THE CENTER OF A FASTENER TO THE EDGE OF ANY PART SHALL NOT BE LESS THAN 1.5 X FASTENER DIAMETER. WHERE THE END DISTANCE IS PARALLEL TO THE FORCE ON THE FASTENER, THE NOMINAL SHEAR STRENGTH SHALL BE LIMITED BY SECTION E4.3.2 OF THE AISI S100-07/S2-10.
9. GALVANIZED METAL STUDS, TRACKS AND SHEET STEEL SHALL CONFORM TO ASTM A653-11 MATERIAL, OR OTHER EQUIVALENT ASTM LISTED MATERIALS IN THE AISI S100-07/S2-10, SECTION A2.1 WITH A MINIMUM YIELD STRENGTH OF 33 KSI FOR 43 MIL (18 GA) AND LIGHTER, AND MINIMUM YIELD STRENGTH OF 50 KSI FOR 54 MIL (16 GA) & HEAVIER.
10. WHERE VALUES ARE NOT GIVEN, SUCH COMBINATIONS OF SCREW SIZES & MATERIAL THICKNESS ARE NOT RECOMMENDED.
11. IF THE ATTACHMENT DETAILS RESULT IN PRYING WITH A MOMENT ARM NOT TO EXCEED 1 5/8", THE VALUES IN TABLE 4 MAY BE USED. IF THE ATTACHMENT DETAILS RESULT IN PRYING WITH A MOMENT ARM THAT EXCEEDS 1 5/8", THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE OF THE PROJECT SHALL DETERMINE THE ALLOWABLE VALUES AND SUBMIT SUBSTANTIATION FOR THEM TO OSHPD FOR REVIEW.
12. INTERACTION OF SHEAR AND TENSION SHALL BE BASED ON $T/T_{ALL} + V/V_{ALL} \leq 1.0$.
13. REFER TO NOTE 6& ON CG0.00 FOR ADDITIONAL SHEET METAL SCREW REQUIREMENTS.

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DATE: 05/11/2017
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Section Title : OSHPD STANDARD GYPSUM BOARD CEILING DETAILS		OPD No:
Sheet Title : SHEET METAL SCREW GENERAL NOTES		GX1.30

5/9/2017 9:07:29 AM

EXPANSION ANCHOR ALLOWABLE STRENGTHS

TABLE 1
EXPANSION ANCHORS INSTALLED IN TO THE UNDERSIDE OF STRUCTURAL SAND-LIGHTWEIGHT CONCRETE (f'_c MIN=3000 PSI) OVER METAL DECK

ANCHOR DIA. (IN)	EMBED (IN)	SHEAR (LB)	TENSION (LB)
3/8	2	747	604
1/2	2 1/4	1029	610
1/2	3 1/4	1173	1086
5/8	3 1/4	1353	836
5/8	4 1/4	2477	1941

TABLE 2
EXPANSION ANCHORS INSTALLED IN TO THE TOP OF STRUCTURAL SAND-LIGHTWEIGHT CONCRETE (f'_c MIN=3000 PSI) OVER METAL DECK

ANCHOR DIA. (IN)	EMBED (IN)	SHEAR (LB)	TENSION (LB)
3/8	2	806	624
1/2	2 1/4	948	660

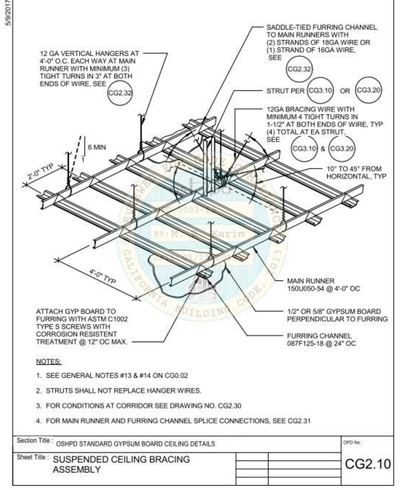
TABLE 3
EXPANSION ANCHORS INSTALLED IN NORMAL WEIGHT CONCRETE (f'_c MIN=3000 PSI)

ANCHOR DIA. (IN)	EMBED (IN)	SHEAR (LB)	TENSION (LB)
3/8	2	1020	961
1/2	2 1/4	1580	1101
1/2	3 1/4	2591	3003
5/8	3 1/4	2579	2150
5/8	4 1/4	3772	3113

REVIEWED FOR CODE COMPLIANCE
OPD-0003-13
BY: M. R. Karim
DATE: 05/11/2017
CALIFORNIA BUILDING CODE: 2013

Section Title : OSHPD STANDARD GYPSUM BOARD CEILING DETAILS		OPD No:
Sheet Title : EXPANSION ANCHOR ALLOWABLE STRENGTHS		GX1.21

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NOTES:
1. SEE GENERAL NOTES #13 & #14 ON CG0.02
2. STRUTS SHALL NOT REPLACE HANGER WIRES.
3. FOR CONDITIONS AT CORRIDOR SEE DRAWING NO. CG2.30
4. FOR MAIN RUNNER AND FURRING CHANNEL SPLICE CONNECTIONS, SEE CG2.31

Section Title : OSHPD STANDARD GYPSUM BOARD CEILING DETAILS		OPD No:
Sheet Title : SUSPENDED CEILING BRACING ASSEMBLY		CG2.10

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12. EXPANSION JOINTS, SEISMIC SEPARATIONS, AND PENETRATIONS:

a. EXPANSION JOINTS SHALL BE PROVIDED IN THE CEILING AT INTERSECTIONS OF CORRIDORS AND AT JUNCTIONS OF CORRIDORS WITH LOBBIES OR OTHER SIMILAR AREAS.

b. FOR CEILING AREAS EXCEEDING 2500 SQUARE FEET, A SEISMIC SEPARATION JOINT SHALL BE PROVIDED TO DIVIDE THE CEILING INTO AREAS NOT EXCEEDING 2500 SQ. FT.

c. PENETRATIONS THROUGH THE CEILING FOR SPRINKLER HEADS AND OTHER SIMILAR DEVICES THAT ARE NOT INTEGRALLY TIED TO THE CEILING SYSTEM IN THE LATERAL DIRECTION SHALL HAVE A TWO (2) INCH OVERSIZED RING, SLEEVE OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FREE MOVEMENT OF ONE (1) INCH IN ALL HORIZONTAL DIRECTIONS. A FLEXIBLE SPRINKLER HOSE FITTING THAT CAN ACCOMMODATE ONE (1) INCH OF CEILING MOVEMENT SHALL BE PERMITTED TO BE USED IN LIEU OF THE OVERSIZED RING, SLEEVE OR ADAPTER. SUCH FLEXIBLE SPRINKLER HOSE SHALL BE ADEQUATELY SUPPORTED FROM SOFFIT SO AS NOT TO EXCEED THE MAXIMUM TRIBUTARY WEIGHT OF THE CEILING.

13. LATERAL FORCE BRACING:

LATERAL FORCE BRACING IS REQUIRED IN ACCORDANCE WITH THIS SECTION FOR ALL CEILING AREAS, UON.

EXCEPTION: LATERAL FORCE BRACING MAY BE OMITTED FOR SUSPENDED ACOUSTICAL CEILING SYSTEMS WITH A CEILING AREA OF 144 SQ. FT. OR LESS, WHEN PERIMETER SUPPORT ARE PROVIDED AND PERIMETER WALLS ARE DESIGNED TO CARRY THE CEILING LATERAL FORCES.

a. PROVIDE LATERAL-FORCE BRACING ASSEMBLIES CONSISTING OF A STRUT AND FOUR (4) #12 GAGE BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER.

b. LATERAL FORCE BRACING ASSEMBLIES SHALL BE SPACED IN ACCORDANCE WITH CG2.20 THROUGH CG2.22 AND CG2.30 FROM EACH WALL AND AT THE EDGES OF ANY CHANGE OF ELEVATION OF THE CEILING.

c. THE SLOPE OF BRACING WIRES MAY BE FROM 10 TO 45 DEGREES BUT MAY NOT EXCEED 45 DEGREES FROM THE PLANE OF THE CEILING AND WIRES SHALL BE TAUT.

d. STRUTS SHALL BE ADEQUATE TO RESIST THE VERTICAL COMPONENT INDUCED BY THE BRACING WIRES, AND SHALL NOT BE MORE THAN 1 (HORIZONTAL) IN 6 (VERTICAL) OUT OF PLUMB.

14. ATTACHMENT OF HANGER AND BRACING WIRES:

a. FASTEN #12 HANGER WIRES WITH NOT LESS THAN THREE (3) TIGHT TURNS IN 3 INCHES. HANGER WIRE LOOPS SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT TO PREVENT ANY VERTICAL MOVEMENT OR ROTATION OF THE MEMBER WITHIN THE LOOPS.

b. FASTEN #12 BRACING WIRES WITH FOUR (4) TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF 1 1/2" INCHES.

c. HANGER OR BRACING WIRE ANCHORED TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHOR ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE WIRE.

d. SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST SIX (6) INCHES FROM ALL UNBRACED DUCTS, PIPES CONDUITS, ETC.

e. HANGER WIRES SHALL NOT BE ATTACHED TO OR BEND AROUND INTERFERING MATERIAL OR EQUIPMENT. PROVIDE TRAPEZE OR OTHER SUPPLEMETARY SUPPORT MEMBERS AT OBSTRUCTIONS TO TYPICAL HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREAS.

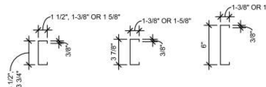
f. HANGER WIRES THAT ARE MORE THAN 1 (HORIZONTAL) IN 6 (VERTICAL) OUT OF PLUMB SHALL REQUIRE PROJECT SPECIFIC DESIGN.

g. WHEN DRILLED-IN CONCRETE ANCHORS OR PAF ARE USED IN REINFORCED CONCRETE FOR HANGER WIRES, 1 OUT OF 10 WIRE/ANCHOR ASSEMBLIES SHALL BE FIELD TESTED FOR 200 LBS. IN TENSION. WHEN DRILLED-IN CONCRETE ANCHORS ARE USED FOR BRACING WIRES, 1 OUT OF 2 WIRE/ ANCHOR ASSEMBLIES SHALL BE FIELD TESTED FOR 440 LBS. IN TENSION IN THE DIRECTION OF THE WIRE. PAF IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES.

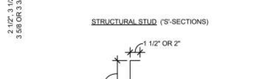
REVIEWED FOR CODE COMPLIANCE
OPD-0003-13
BY: M. R. Karim
DATE: 05/11/2017
CALIFORNIA BUILDING CODE: 2013

Section Title : OSHPD STANDARD GYPSUM BOARD CEILING DETAILS		OPD No:
Sheet Title : GYP-BOARD SUSPENDED CEILING PAGE 3 OF 5		CG0.02

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STRUCTURAL STUD ('S'-SECTIONS)



STRUCTURAL TRACK ('T'-SECTIONS)

DESIGNATION THICKNESS (MILS)	REFERENCE ONLY, GAUGE NO.
18	25
27	22
33	20
43	18
54	16
68	14
97	12
118	10

NOTE:
1. F_y = 50KSI FOR 54 MIL (16GA) & THICKER SECTIONS, AND F_y = 33KSI FOR SECTIONS UP TO & INCLUDING 43 MI (18GA).
2. SIZE AND THICKNESS ARE CONSIDERED MINIMUMS.
3. STRUCTURAL STUDS SHALL NOT BE PUNCHED UNLESS NOTED OTHERWISE.

Section Title : OSHPD STANDARD GYPSUM BOARD CEILING DETAILS		OPD No:
Sheet Title : METAL STUD PROFILES		GX1.40

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SHEET METAL SCREW (SMS) ALLOWABLE STRENGTHS
TABLE 1
SHEET METAL SCREW ALLOWABLE STRENGTHS FOR STEEL TO STEEL CONNECTIONS.

Fy (KSI)	MIL (STEEL GA)	FASTENER SIZE NO. 14 0.250 IN SHEAR (LB)	NO. 14 0.250 IN TENSION (LB)	NO. 12 0.216 IN SHEAR (LB)	NO. 12 0.216 IN TENSION (LB)	NO. 10 0.190 IN SHEAR (LB)	NO. 10 0.190 IN TENSION (LB)	NO. 8 0.164 IN SHEAR (LB)	NO. 8 0.164 IN TENSION (LB)	NO. 6 0.138 IN SHEAR (LB)	NO. 6 0.138 IN TENSION (LB)
50	97 (12)	704	275	525	205	-	-	-	-	-	-
	68 (14)	704	275	525	205	405	159	-	-	-	-
	54 (16)	613	261	525	205	405	159	303	118	-	-
	43 (18)	302	144	280	124	263	109	244	94	165	79
33	33 (20)	-	-	-	-	177	84	164	72	151	61

NOTES:
1. SEE GENERAL NOTES ON GX1.30 FOR ADDITIONAL INFORMATION .
2. WHERE ONE OR TWO LAYERS OF GYP BOARD OCCURS BETWEEN STEEL SURFACES, THE ALLOWABLE VALUES OF TABLE 2 & 3 SHALL BE USED.
3. ALLOWABLE STRENGTH VALUES DO NOT ACCOUNT FOR EFFECTS FROM PRYING. THE RDP IN RESPONSIBLE CHARGE OF THE PROJECT SHALL PROVIDE ADEQUATE BLOCKING/RESTRAINT TO PREVENT PRYING ACTION. WHERE PRYING OCCURS, THE VALUES AND CONSTRAINTS OF TABLE 4 SHALL BE USED.

TABLE 2 - NON-PRYING CONDITION
SHEET METAL SCREW ALLOWABLE STRENGTHS FOR STEEL TO STEEL CONNECTIONS.
WITH ONE LAYER OF 5/8" GYP BOARD BETWEEN STEEL SURFACES.

Fy (KSI)	MIL (STEEL GA)	FASTENER SIZE NO. 14 0.250 IN SHEAR (LB)	NO. 14 0.250 IN TENSION (LB)	NO. 12 0.216 IN SHEAR (LB)	NO. 12 0.216 IN TENSION (LB)	NO. 10 0.190 IN SHEAR (LB)	NO. 10 0.190 IN TENSION (LB)	NO. 8 0.164 IN SHEAR (LB)	NO. 8 0.164 IN TENSION (LB)	NO. 6 0.138 IN SHEAR (LB)	NO. 6 0.138 IN TENSION (LB)
50	97 (12)	226	275	180	205	-	-	-	-	-	-
	68 (14)	226	275	180	205	140	159	-	-	-	-
	54 (16)	226	261	180	205	140	159	120	118	-	-
	43 (18)	226	144	180	124	140	109	120	94	60	79
33	33 (20)	-	-	-	-	100	84	80	72	60	61

NOTES:
1. SEE GENERAL NOTES ON GX1.30 FOR ADDITIONAL INFORMATION .
2. ALLOWABLE STRENGTH VALUES DO NOT ACCOUNT FOR EFFECTS FROM PRYING. THE RDP IN RESPONSIBLE CHARGE OF THE PROJECT SHALL PROVIDE ADEQUATE BLOCKING/RESTRAINT TO PREVENT PRYING ACTION. WHERE PRYING OCCURS, THE VALUES AND CONSTRAINTS OF TABLE 4 SHALL BE USED.

Section Title : OSHPD STANDARD GYPSUM BOARD CEILING DETAILS		OPD No:
Sheet Title : SHEET METAL ALLOWABLE STRENGTHS - PAGES 1 OF 2		GX1.31

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EXPANSION ANCHOR GENERAL NOTES

1. ALLOWABLE STRENGTHS SHALL BE COMPARED TO ALLOWABLE STRESS DESIGN (ASD) LEVEL DEMAND IN ACCORDANCE WITH THE 2013 CBC SECTION 1605A.3.1.
2. ALLOWABLE STRENGTHS SHOWN IN TABLES ON GX1.23 ARE FOR SINGLE ANCHORS WHICH MEET MIN. REQUIREMENTS PER TABLE AND SECTION BELOW .
3. MINIMUM CONCRETE STRENGTH f'_c = 3000 PSI.
4. EXPANSION ANCHORS INSTALLED THROUGH LOWER FLUTES OF METAL DECK SHALL MEET THE REQUIREMENTS OF THE INSTALLATION CRITERIA AND SECTION BELOW.
5. STEEL DECK TO BE MIN 20 GA, B-DECK.
6. MINIMUM CONCRETE FILL DEPTH ABOVE THE TOP OF THE METAL DECK PER SECTION AND INSTALLATION CRITERIA BELOW.
7. EXPANSION ANCHORS SHALL NOT BE USED IN PRE-STRESSED CONCRETE UNLESS NON-DESTRUCTIVE TESTING METHODS ARE USED TO LOCATE STRAND & REINFORCING PRIOR TO ANCHOR INSTALLATION.
8. EXPANSION ANCHOR INSTALLATION SHALL NOT NICK OR DAMAGE EXISTING REINFORCEMENT. SHOULD THIS OCCUR, THE RDP IN RESPONSIBLE CHARGE SHALL BE NOTIFIED IMMEDIATELY. EXPANSION ANCHORS SHALL BE INSTA" CLEAR OF EXISTING REINFORCEMENT.
9. EXPANSION ANCHORS SHALL BE INSTALLED PER CURRENT ICC-ES EVALUATION REPORT OR REPORT FROM OTHER TESTING AGENCY ACCEPTABLE TO OSHPD.
10. TESTING OF EXPANSION ANCHORS SHALL BE PER 2013 CBC SECTION 1913A.7.
11. REFER TO NOTE 6< ON CG0.00 FOR ADDITIONAL EXPANSION ANCHOR REQUIREMENTS.
12. ALL VALUES IN TABLES ARE FOR CRACKED CONCRETE & INCLUDE REDUCTION BASED ON ACI 318-11 D.3.3.4.4 REQUIREMENTS. THE ALLOWABLE STRENGTHS ARE BASED UPON THE LEAST OF THE ALLOWABLE STRENGTHS CALCULATED USING THE ICC ESRS 1917 AND 2502 AND USING AN α FACT

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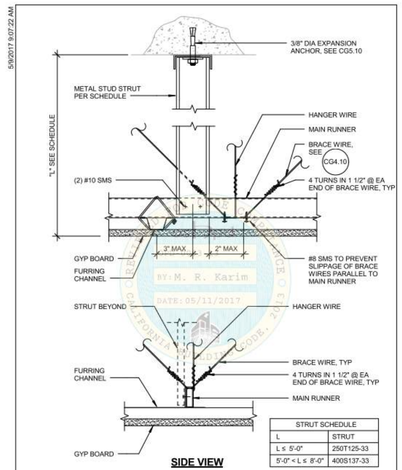
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STRUCTURAL CONDITION OF FLOOR/ ROOF ABOVE SUSPENDED CEILING	APPLICABLE HANGER WIRE DETAIL	APPLICABLE BRACING WIRE DETAIL
CONCRETE OVER METAL DECK	CG4.21	CG4.31
CONCRETE SLAB, BEAM, OR JOIST	CG4.22	CG4.32
STRUCTURAL STEEL	CG4.23	CG4.33
SAWN TIMBER	CG4.24	CG4.34
METAL STUD WALL	CG4.25	CG4.35

REVIEWED FOR CODE COMPLIANCE OSHPD OPD-0003-13 BY: M. R. Karim DATE: 05/11/2017 CALIFORNIA BUILDING CODE 2016

Section Title: OSHPD STANDARD GYPSUM BOARD CEILING DETAILS — OPD No.
Sheet Title: HANGER AND BRACING WIRE CONNECTION MATRIX — CG4.11

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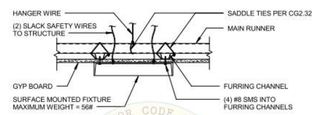


SIDE VIEW

STRUT SCHEDULE	
L	STRUT
L ≤ 5'-0"	250T125-33
5'-0" < L ≤ 8'-0"	400S137-33

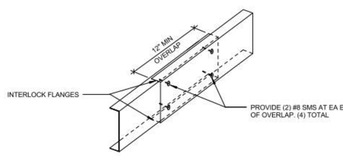
Section Title: OSHPD STANDARD GYPSUM BOARD CEILING DETAILS — OPD No.
Sheet Title: STRUT & BRACING WIRE ASSEMBLY - METAL STUD TYPE STRUT — CG3.10

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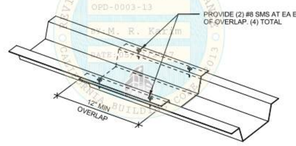


Section Title: OSHPD STANDARD GYPSUM BOARD CEILING DETAILS — OPD No.
Sheet Title: SURFACE MOUNTED FIXTURE — CG2.70

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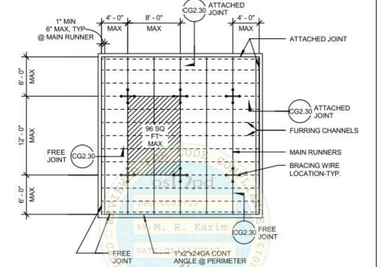
MAIN RUNNER SPLICE



FURRING CHANNEL SPLICE

Section Title: OSHPD STANDARD GYPSUM BOARD CEILING DETAILS — OPD No.
Sheet Title: SPLICE DETAILS — CG2.31

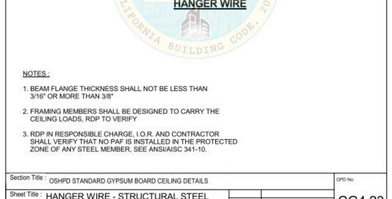
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NOTES:
1. BRACING WIRES AND COMP. STRUT SHALL OCCUR AT EVERY 96 SQ. FT. MAX. IN ROOMS OVER 96 SQ. FT.
2. RDP MAY ELECT TO SPECIFY TIGHTER SPACING BETWEEN BRACING WIRES AND COMP. STRUTS TO ALLOW SMALLER ANCHORS PER SCHEDULES ON SHEETS CG4.31 & CG6.60.

Section Title: OSHPD STANDARD GYPSUM BOARD CEILING DETAILS — OPD No.
Sheet Title: TYPICAL CEILING PLAN FOR $1.15 < S_{DS} \leq 1.73$ AND z/h <= 1.0 — CG2.21

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OPTION 1 OPTION 2

OPTION 3

NOTES:
1. LOAD TEST IN ACCORDANCE WITH GENERAL NOTE 14(g), PAGE CG0.02 SHALL BE REQUIRED
2. REFER TO CG4.10 FOR ADDITIONAL DETAILS

Section Title: OSHPD STANDARD GYPSUM BOARD CEILING DETAILS — OPD No.
Sheet Title: HANGER WIRE - CONCRETE OVER METAL DECK — CG4.21

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NOTE: FOR INFORMATION NOT SHOWN, SEE CG2.10 AND CG3.10

Section Title: OSHPD STANDARD GYPSUM BOARD CEILING DETAILS — OPD No.
Sheet Title: STRUT & BRACING WIRE ASSEMBLY - TUBE TYPE STRUT — CG3.20

5/9/2017 9:07:22 AM

A DETAIL

NOTE:
IF THE MAIN RUNNER IS CUT DUE TO FIXTURES, RDP SHALL SPECIFY ADDITIONAL HANGER WIRES AND/OR BRACING WIRES, AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY.

Section Title: OSHPD STANDARD GYPSUM BOARD CEILING DETAILS — OPD No.
Sheet Title: RECESSED LIGHT FIXTURE — CG2.71

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SADDLE TIE AT MAIN RUNNER TO HANGER WIRE

SADDLE TIE AT FURRING CHANNEL TO MAIN RUNNER

NOTE:
REFERENCE ASTM C754 FIGURES 5 & 13

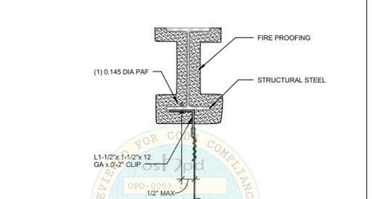
Section Title: OSHPD STANDARD GYPSUM BOARD CEILING DETAILS — OPD No.
Sheet Title: SADDLE TIE DETAILS — CG2.32

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NOTES:
1. BRACING WIRES AND COMP. STRUT SHALL OCCUR AT EVERY 144 SQ. FT. MAX. IN ROOMS OVER 144 SQ. FT.
2. RDP MAY ELECT TO SPECIFY TIGHTER SPACING BETWEEN BRACING WIRES AND COMP. STRUTS TO ALLOW SMALLER ANCHORS PER SCHEDULES ON SHEETS CG4.31 & CG6.60.

Section Title: OSHPD STANDARD GYPSUM BOARD CEILING DETAILS — OPD No.
Sheet Title: TYPICAL CEILING PLAN FOR $S_{DS} \leq 1.15$ AND z/h <= 1.0 — CG2.22

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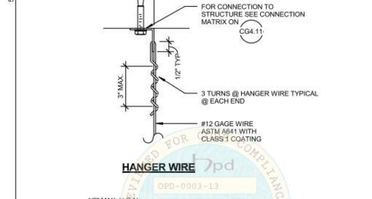


HANGER WIRE

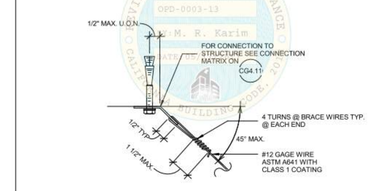
NOTES :
1. BEAM FLANGE THICKNESS SHALL NOT BE LESS THAN 3/16" OR MORE THAN 3/8"
2. FRAMING MEMBERS SHALL BE DESIGNED TO CARRY THE CEILING LOADS, RDP TO VERIFY
3. RDP IN RESPONSIBLE CHARGE, I.O.R. AND CONTRACTOR SHALL VERIFY THAT NO PAF IS INSTALLED IN THE PROTECTED ZONE OF ANY STEEL MEMBER, SEE ANSI/AISC 341-10.

Section Title: OSHPD STANDARD GYPSUM BOARD CEILING DETAILS — OPD No.
Sheet Title: HANGER WIRE - STRUCTURAL STEEL — CG4.23

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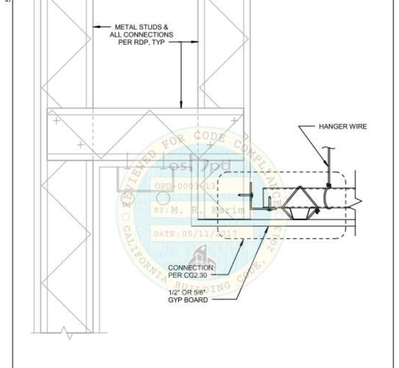
HANGER WIRE



BRACING WIRE

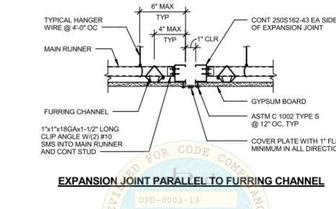
Section Title: OSHPD STANDARD GYPSUM BOARD CEILING DETAILS — OPD No.
Sheet Title: HANGER AND BRACE WIRE CONNECTION - TYPICAL WIRE TURNS — CG4.10

5/9/2017 9:07:22 AM

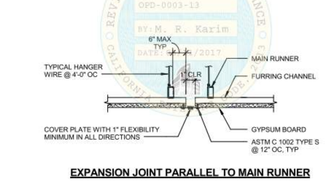


Section Title: OSHPD STANDARD GYPSUM BOARD CEILING DETAILS — OPD No.
Sheet Title: RECESSED COVE LIGHT FIXTURE — CG2.72

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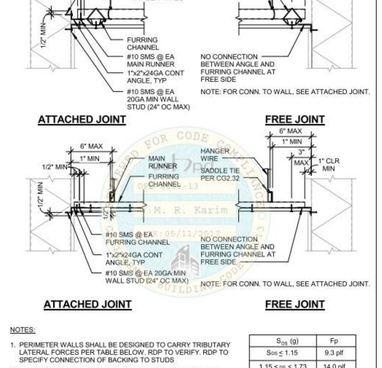
EXPANSION JOINT PARALLEL TO FURRING CHANNEL



EXPANSION JOINT PARALLEL TO MAIN RUNNER

Section Title: OSHPD STANDARD GYPSUM BOARD CEILING DETAILS — OPD No.
Sheet Title: EXPANSION JOINT AT INTERSECTIONS — CG2.40

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ATTACHED JOINT FREE JOINT

ATTACHED JOINT FREE JOINT

NOTES:
1. PERIMETER WALLS SHALL BE DESIGNED TO CARRY TRIBUTARY LATERAL FORCES PER TABLE BELOW. RDP TO VERIFY. RDP TO SPECIFY CONNECTION OF BACKING TO STUDS
2. WHEN GYPSUM BOARD IS TO BE APPLIED TO BOTH CEILING AND WALLS, GYPSUM BOARD SHALL BE APPLIED FIRST TO THE CEILING AND THEN TO WALLS IN ACCORDANCE WITH ASTM C840.

S_{DS} (g)	Fp
$S_{DS} \leq 1.15$	9.3 pf
$1.15 < S_{DS} \leq 1.73$	14.0 pf
$1.73 < S_{DS} \leq 2.50$	20.9 pf

Section Title: OSHPD STANDARD GYPSUM BOARD CEILING DETAILS — OPD No.
Sheet Title: CEILING PERIMETER — CG2.30

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ARCHITECT SEAL

LICENSED ARCHITECT
MATTHEW S. GREINER
NO. C27137
REN.: 10-31-2023
STATE OF CALIFORNIA

CONSULTANT SEAL

Drawing Title:

CEILING DETAILS

Issue Date: 01/21/2022
Project No.: 006240.00 Checked by: Checker

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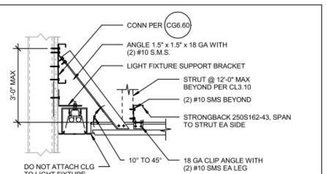
ANCHOR BOLT SIZE	SPLAY BRACE/COMP POST SPACING	SDS (g) RANGE (βh = 1.0)	DECK TYPE
5/8 x 4 1/4" EMBED	8' x 8' (PER CG2.20)	1.73<S_{DS}≤2.5 (PER CG2.20)	W3 + 3 1/4" MIN PER GX1.20
5/8 x 4 1/4" EMBED	8' x 12' (PER CG2.21)	1.15<S_{DS}≤1.73 (PER CG2.21)	W3 + 3 1/4" MIN PER GX1.20
5/8 x 4 1/4" EMBED	12' x 12' (PER CG2.22)	0<S_{DS}≤1.15 (PER CG2.22)	W3 + 3 1/4" MIN PER GX1.20
3/8 x 2" EMBED[1]	8' x 8' (PER CG2.20)[1]	0.90<S_{DS}≤1.35 (IN LIEU OF S_{DS} SHOWN ON CG2.20)[1]	W3 + 3 1/4" MIN PER GX1.20 OR B 1 1/2" + 2 1/4" MIN PER GX1.22
3/8 x 2" EMBED[1]	8' x 12' (PER CG2.21)	0.60<S_{DS}≤0.90 (IN LIEU OF S_{DS} SHOWN ON CG2.21)[1]	W3 + 3 1/4" MIN PER GX1.20 OR B 1 1/2" + 2 1/4" MIN PER GX1.22
3/8 x 2" EMBED[1]	12' x 12' (PER CG2.22)[1]	0<S_{DS}≤0.60 (IN LIEU OF S_{DS} SHOWN ON CG2.22)[1]	W3 + 3 1/4" MIN PER GX1.20 OR B 1 1/2" + 2 1/4" MIN PER GX1.22

NOTE:

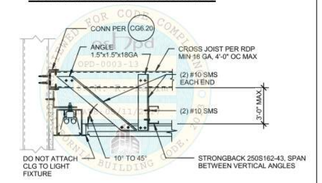
1. RDP CAN USE SMALLER EXPANSION BOLT SIZE AND SHALLOWER EMBEDMENT DEPTH SHOWN, PROVIDED VERTICAL STRUT/BRACING WIRE SPACING IS REDUCED AS SHOWN, IN LIEU OF SPACINGS SHOWN ON CL2.20, CL2.21, AND CL2.22.

Section Title: OSHPD STANDARD SUSPENDED CEILING DETAILS — OPD No.
Sheet Title: OBSTRUCTION-STUD KICKER TO WALL - PAGE 2 OF 2 — CG6.61

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LOCATIONS WITHOUT CROSS JOISTS



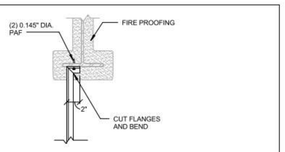
LOCATIONS WITH CROSS JOISTS

NOTES:

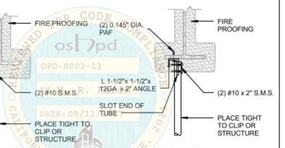
1. RDP SHALL VERIFY CROSS JOIST, STRONGBACK, STRUT, BRACE, AND SUPPORTING WALL.
2. DETAILS IN THIS PAGE ARE ONLY PERMITTED AT THE ATTACHED END OF THE CEILING AND ARE NOT PERMITTED AT THE FREE JOINT.
3. ALL BRACING AND HANGER WIRES PER CL3.10 REQUIRED.

Section Title: OSHPD STANDARD GYPSUM BOARD CEILING DETAILS — OPD No.
Sheet Title: OBSTRUCTION-RECESSED LIGHT AT PERIMETER — CG6.40

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CHANNEL STRUT



OPTION 1 **OPTION 2**

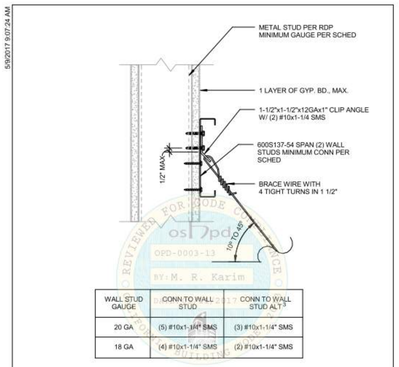
TUBE STRUT

NOTES:

1. STRUCTURAL STEEL MEMBER SHALL HAVE A MINIMUM FLANGE THICKNESS OF 3/16" AND MAXIMUM OF 3/8".
2. FRAMING MEMBERS MUST BE DESIGNED TO CARRY THE CEILING LOADS, RDP TO VERIFY.
3. RDP IN RESPONSIBLE CHARGE, I.O.R. AND CONTRACTOR SHALL VERIFY THAT NO PAF IS INSTALLED IN THE PROTECTED ZONE OF ANY STEEL MEMBER, SEE ANSI/AISC 341-10.
4. SEE PAGES CG5.20 & CG5.30 FOR ADDITIONAL INFORMATION.

Section Title: OSHPD STANDARD GYPSUM BOARD CEILING DETAILS — OPD No.
Sheet Title: STRUT CONNECTION TO STRUCTURAL STEEL — CG5.40

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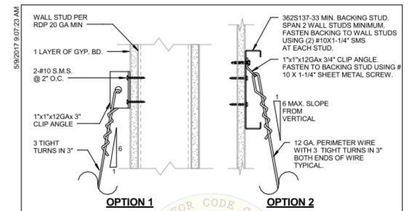
WALL STUD GAUGE	CONN TO WALL STUD	CONN TO WALL STUD ALT[3]
20 GA	(5) #10x1-1/4" SMS	(3) #10x1-1/4" SMS
18 GA	(4) #10x1-1/4" SMS	(2) #10x1-1/4" SMS

NOTES:

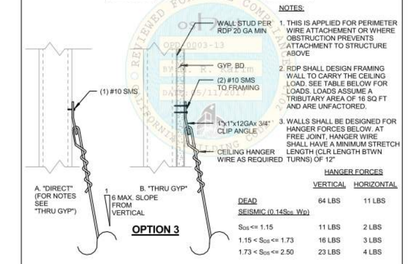
1. RDP SHALL DESIGN FRAMING WALL TO CARRY THE CEILING LOAD PER NOTE #2.
2. SEISMIC BRACE WIRE FORCE = 473 LBS (LRFD LOAD). BRACING WIRE SHALL HAVE A MINIMUM STRETCH LENGTH (CLR LENGTH BTWN TURNS) OF 12", WHEN USED AT FREE JOINT.
3. APPLIES WHERE CLIP ATTACHED DIRECTLY TO WALL STUD.

Section Title: OSHPD STANDARD GYPSUM BOARD CEILING DETAILS — OPD No.
Sheet Title: BRACING WIRE - METAL STUD WALL — CG4.35

5/9/2017 9:07:23 AM



OPTION 1 **OPTION 2**



OPTION 3

NOTES:

1. THIS IS APPLIED FOR PERIMETER WIRE ATTACHEMENT OR WHERE OBSTRUCTION PREVENTS ATTACHMENT TO STRUCTURE ABOVE
2. RDP SHALL DESIGN FRAMING WALL TO CARRY THE CEILING LOAD. SEE TABLE BELOW FOR LOADS. LOADS ASSUME A TRIBUTARY AREA OF 16 SQ FT AND ARE UNFACTORED.
3. WALLS SHALL BE DESIGNED FOR HANGER FORCES BELOW: AT FREE JOINT, HANGER WIRE SHALL HAVE A MINIMUM STRETCH LENGTH (CLR LENGTH BTWN TURNS) OF 12"

	HANGER FORCES VERTICAL	HORIZONTAL
DEAD	64 LBS	11 LBS
SEISMIC (0.14S_{DS} W_P)		
S_{DS}<= 1.15	11 LBS	2 LBS
1.15 < S_{DS}<= 1.73	16 LBS	3 LBS
1.73 < S_{DS}<= 2.50	23 LBS	4 LBS

Section Title: OSHPD STANDARD GYPSUM BOARD CEILING DETAILS — OPD No.
Sheet Title: HANGER WIRE - METAL STUD WALL — CG4.25

5/9/2017 9:07:26 AM

ISOMETRIC VIEW **SIDE VIEW**

SUSPENDED GYPBOARD CEILING - WIRE OBSTRUCTION DETAIL W/ STUD KICKER, LESS BRACING WIRES, TO DECK.

Section Title: OSHPD STANDARD GYPSUM BOARD CEILING DETAILS — OPD No.
Sheet Title: OBSTRUCTION-STUD KICKER TO OVERHEAD — CG6.50

5/9/2017 9:07:26 AM

WALL WHERE OCCURS

SPAN	SECTION
4'-0"	250S162-43
8'-0"	400S162-54
12'-0"	(2) 400S162-54

DBL. SECTION

Section Title: OSHPD STANDARD GYPSUM BOARD CEILING DETAILS — OPD No.
Sheet Title: OBSTRUCTION-BRIDGE AT LARGE OFFSET CONDITION — CG6.20

5/9/2017 9:07:24 AM

STRUCTURAL CONDITION OF FLOOR / ROOF ABOVE STRUT	APPLICABLE DETAIL
CONCRETE OVER METAL DECK	CG5.20
CONCRETE SLAB, BEAM, OR JOIST	CG5.30
STRUCTURAL STEEL	CG5.40
SAWN TIMBER WITH GYPSUM BOARD	CG5.50
SAWN TIMBER WITHOUT GYPSUM BOARD	CG5.60

Section Title: OSHPD STANDARD GYPSUM BOARD CEILING DETAILS — OPD No.
Sheet Title: STRUT CONNECTION MATRIX — CG5.10

5/9/2017 9:07:24 AM

OPTION 1

ANCHOR BOLT SIZE	SPLAY BRACE/COMP POST SPACING	SDS (g) RANGE (βh = 1.0)	DECK TYPE
5/8 x 4 1/4" EMBED	8' x 8' (PER CG2.20)	1.73<S_{DS}≤2.5 (PER CG2.20)	W3 + 3 1/4" MIN PER GX1.20
5/8 x 4 1/4" EMBED	8' x 12' (PER CG2.21)	1.15<S_{DS}≤1.73 (PER CG2.21)	W3 + 3 1/4" MIN PER GX1.20
5/8 x 4 1/4" EMBED	12' x 12' (PER CG2.22)	0<S_{DS}≤1.15 (PER CG2.22)	W3 + 3 1/4" MIN PER GX1.20
3/8 x 2" EMBED[3]	8' x 8' (PER CG2.20)[3]	0.76<S_{DS}≤1.14 (IN LIEU OF S_{DS} SHOWN ON CG2.20)[3]	W3 + 3 1/4" MIN PER GX1.20 OR B 1 1/2" + 2 1/4" MIN PER GX1.22
3/8 x 2" EMBED[3]	8' x 12' (PER CG2.21)[3]	0.51<S_{DS}≤0.76 (IN LIEU OF S_{DS} SHOWN ON CG2.21)[3]	W3 + 3 1/4" MIN PER GX1.20 OR B 1 1/2" + 2 1/4" MIN PER GX1.22
3/8 x 2" EMBED[3]	12' x 12' (PER CG2.22)[3]	0<S_{DS}≤0.51 (IN LIEU OF S_{DS} SHOWN ON CG2.22)[3]	W3 + 3 1/4" MIN PER GX1.20 OR B 1 1/2" + 2 1/4" MIN PER GX1.22

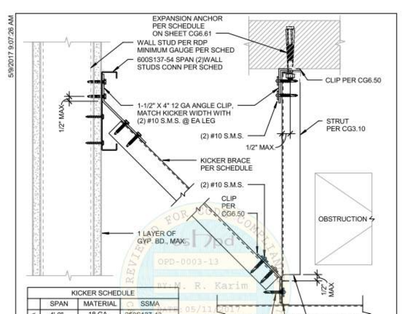
NOTES:

1. LOAD TEST IN ACCORDANCE WITH GENERAL NOTE 14(g). PAGE CG0.02 SHALL BE REQUIRED
2. REFER TO CG4.10 FOR ADDITIONAL DETAILS
3. RDP CAN USE SMALLER EXPANSION BOLT SIZE AND SHALLOWER EMBEDMENT DEPTH SHOWN, PROVIDED VERTICAL STRUT/BRACING WIRE SPACING IS REDUCED AS SHOWN, IN LIEU OF SPACINGS SHOWN ON CG2.20, CG2.21, AND CG2.22.

OPTION 2

Section Title: OSHPD STANDARD GYPSUM BOARD CEILING DETAILS — OPD No.
Sheet Title: BRACING WIRE - CONCRETE OVER METAL DECK — CG4.31

5/9/2017 9:07:26 AM



KICKER SCHEDULE	SPAN	MATERIAL	SSMA
≤	4'-0"	18 GA	250S137-43
≤	8'-0"	18 GA	400S162-43
≤	14'-0"	16 GA	400S162-54

WALL STUD GAUGE	CONN TO WALL STUD	CONN TO WALL STUD ALT[1]
20 GA	(5) #10x1-1/4" SMS	(3) #10x1-1/4" SMS
18 GA	(4) #10x1-1/4" SMS	(2) #10x1-1/4" SMS

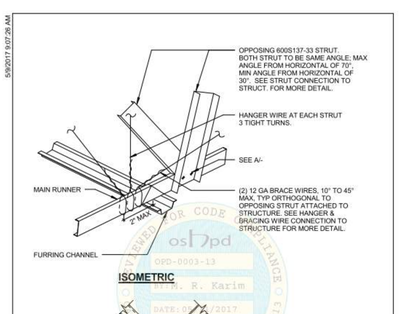
NOTES:
1. KICKER BRACING IS AN ALTERNATE TO BRACING WIRES. THIS METHOD MAY BE USED IN LIEU OF OPPOSING WIRES AT ATTACHED JOINT ONLY. NOT PERMITTED AT FREE JOINT
2. RDP SHALL DESIGN FRAMED WALLS TO CARRY THE CEILING LOADS
3. APPLIES WHERE CLIP ATTACHED DIRECTLY TO WALL STUD.
4. REFER TO CG6.50 FOR BALANCE OF INFO.

SIDE VIEW

SUSPENDED GYPBOARD CEILING - WIRE OBSTRUCTION DETAIL W/STUD KICKER, LESS BRACING WIRES, TO WALL.

Section Title: OSHPD STANDARD GYPSUM BOARD CEILING DETAILS — OPD No.
Sheet Title: OBSTRUCTION-STUD KICKER TO WALL - PAGE 1 OF 2 — CG6.60

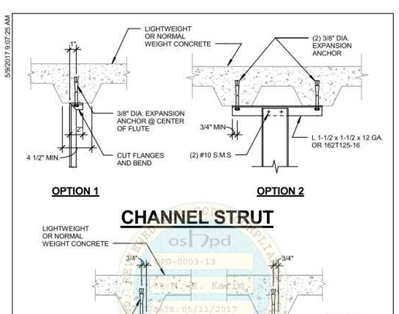
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OPPOSING STRUTS FOR GYPSUM BOARD CEILING

Section Title: OSHPD STANDARD GYPSUM BOARD CEILING DETAILS — OPD No.
Sheet Title: OBSTRUCTION-COUNTER SLOPING STRUTS — CG6.30

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OPTION 1 **OPTION 2**

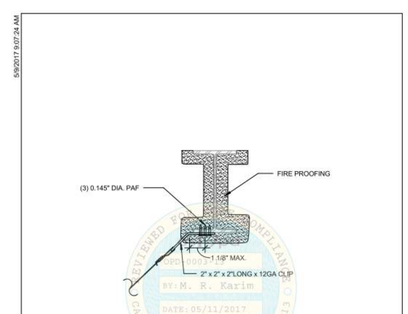
CHANNEL STRUT

OPTION 1 **OPTION 2**

TUBE STRUT

Section Title: OSHPD STANDARD GYPSUM BOARD CEILING DETAILS — OPD No.
Sheet Title: STRUT CONNECTION TO CONCRETE OVER METAL DECK — CG5.20

5/9/2017 9:07:24 AM



BRACING WIRE

NOTES :

1. BEAM FLANGE THICKNESS SHALL NOT BE LESS THAN 3/16" OR MORE THAN 3/8"
2. FRAMING MEMBERS SHALL BE DESIGNED TO CARRY THE CEILING LOADS, RDP TO VERIFY
3. RDP IN RESPONSIBLE CHARGE, I.O.R. AND CONTRACTOR SHALL VERIFY THAT NO PAF IS INSTALLED IN THE PROTECTED ZONE OF ANY STEEL MEMBER, SEE ANSI/AISC 341-10.

Section Title: OSHPD STANDARD GYPSUM BOARD CEILING DETAILS — OPD No.
Sheet Title: BRACING WIRE - STRUCTURAL STEEL — CG4.33

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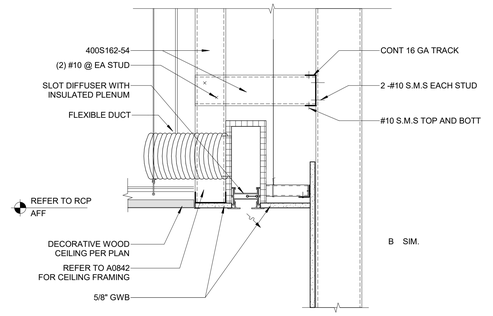
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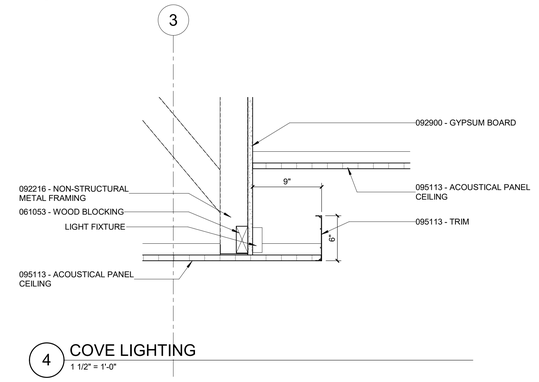
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KEYNOTES

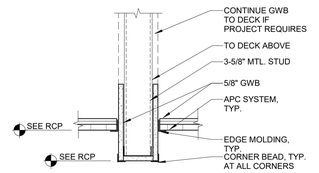
061053.A02	061053 - WOOD BLOCKING
092216.A00	092216 - NON-STRUCTURAL METAL FRAMING
092900.B01	092900 - GYPSUM BOARD
095113.A00	095113 - ACOUSTICAL PANEL CEILING
095113.E01	095113 - TRIM



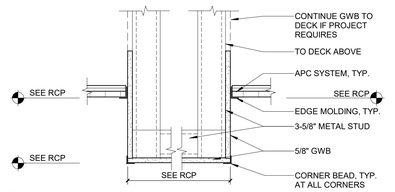
5 SLOT DIFFUSER INSTALLATION AT GWB CEILING
1 1/2" = 1'-0"



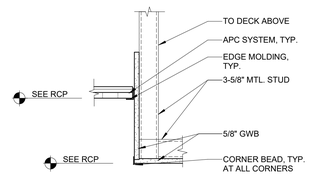
4 COVE LIGHTING
1 1/2" = 1'-0"



3 CEILING DETAIL
1 1/2" = 1'-0"



2 CEILING DETAIL
1 1/2" = 1'-0"



1 CEILING DETAIL
1 1/2" = 1'-0"

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TALL CABINETS
1/2" = 1'-0"

WALL CABINETS
1/2" = 1'-0"

BASE CABINETS
1/2" = 1'-0"

A. DO NOT SCALE DRAWINGS. RELY ON THE NUMERIC DIMENSIONS SHOWN ON THE DRAWINGS FOR MEASUREMENT
B. CASEWORK THAT IS IDENTIFIED BY 3 CASEWORK IDENTIFIER NUMBERS TO MATCH EQUIVALENT NUMBER OF THE CABINET DESIGN SERIES NUMBER IN NORTH AMERICAN ARCHITECTURAL WOODWORK STANDARDS - 3.0. REFERENCE PLANS, SECTIONS, AND ELEVATIONS FOR DETAILS WHERE THERE IS NO EQUIVALENT NUMBER IDENTIFIED.
C. FIXED CASEWORK IS FLOOR MOUNTED U.N.O.
D. ALL CASEWORK HARDWARE TO BE LEVEL AND ALIGN WITH ADJACENT HARDWARE, CENTER ALL DRAWER PULLS VERTICALLY ON PANEL FACE.
E. HEIGHT OF BASE CABINET REFERS TO HEIGHT OF FINISHED COUNTERTOP. SIZE CASEWORK HEIGHT TO ACHIEVE THIS DIMENSION. REFERENCE TYPICAL CASEWORK MOUNTING LEGEND ON THIS SHEET.
F. DEPTH OF BASE CABINET REFERS TO DEPTH FROM BACK OF PARTITION TO FRONT FACE OF CABINET INCLUDING DOOR FACES, DRAWER FACES, OR FALSE FRONT FACES. REFERENCE TYPICAL CASEWORK MOUNTING LEGEND ON THIS SHEET.
G. ALL WALL CABINETS AND TALL STORAGE CABINETS TO GYPSUM WALL BOARD SOFFITS ABOVE
H. USE FILLER PANELS AS REQUIRED FOR GAPS BETWEEN WALLS, FIXED CASEWORK UNITS AND AT ALL OTHER AREAS TO PROVIDE FINISHED ASSEMBLY. CENTER CASEWORK BETWEEN TWO FILLER PANELS WHERE SPACE PERMITS.
I. WHERE KNEE SPACES ARE AT THE END OF A SECTION OF FIXED CASEWORK, PROVIDE FULL 1-1/2" THICK END PANEL.
J. PROVIDE SUPPORT BRACKET WHERE NO BASE CABINETS INDICATED BELOW COUNTERTOP. SPACE BRACKET(S) AS SHOWN AND AS SPECIFIED, U.N.O.
K. HINGE SIDE SHALL BE AT THE CORNER WHEN THE CABINET IS AT A CORNER CONDITION.
L. SINKS SHALL BE CENTERED (FROM SIDE TO SIDE) IN BASE CABINET U.N.O.
M. ALL SINKS TO BE LOCATED IN SOLID SURFACE COUNTERTOPS. REFERENCE ARCHITECTURAL PLANS FOR SINK LOCATIONS AND INTEGRAL BOWL TYPES, COORDINATE ALL OTHER SINK TYPES WITH PLUMBING DRAWINGS.
N. PROVIDE 1 GROMMET PER EACH JUNCTION BOX BUT NOT EXCEEDING 6'-0" ON CENTER, WHICHEVER IS GREATEST. COORDINATE WITH ELECTRICAL DRAWINGS.
O. COUNTER SUPPORT BRACKETS SHALL BE "INSIDE WALL" FLUSH-MOUNT STYLE U.N.O.
P. ALL CASEWORK IN RISK LEVEL AREAS 2-5 TO BE WOOD VENEER WITH HARD WOOD EDGE.
Q. ALL PLASTIC LAMINATE CASEWORK IN RISK LEVEL AREA 1 TO HAVE PVC EDGE BAND AT EXPOSED EDGES.
R. ALL BUILT IN CASEWORK WITH TOE KICK TO HAVE BASE FINISH AS SCHEDULED.

GENERAL CASEWORK NOTES
1/2" = 1'-0"

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LICENSED ARCHITECT
MATTHEW S. GREINER
NO. C27137
REN.: 10-31-2023
STATE OF CALIFORNIA

CONSULTANT SEAL

Drawing Title:

MILLWORK DETAILS

Issue Date: 01/21/2022
Project No.: 006240.00 Checked by: Checker

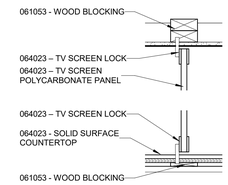
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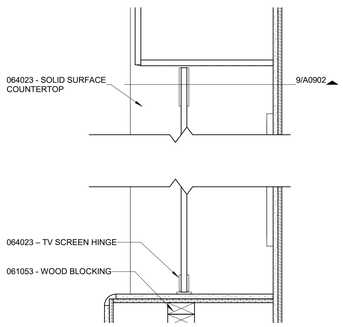
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KEYNOTES

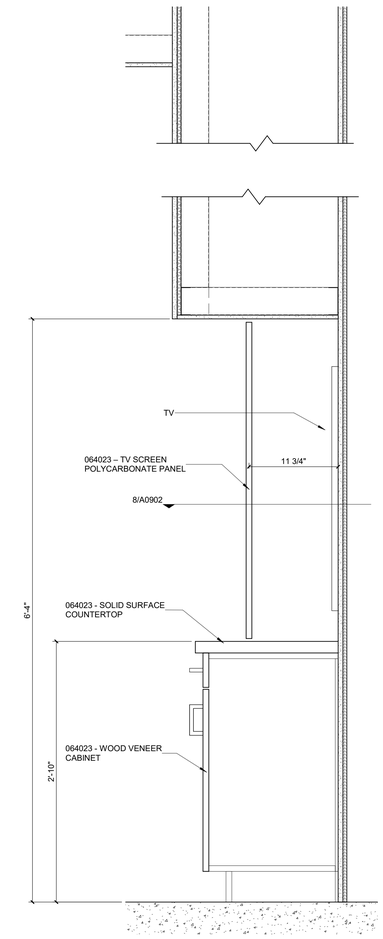
061053.A02	061053 - WOOD BLOCKING
064023.G23	064023 - FIRE-RETARDANT-TREATED WOOD
064023.L02	064023 - WOOD VENEER CABINET
064023.L05	064023 - SOLID SURFACE COUNTERTOP
064023.M01	064023 – TV SCREEN POLYCARBONATE PANEL
064023.M02	064023 – TV SCREEN HINGE
064023.M03	064023 – TV SCREEN LOCK
092216.A00	092216 - NON-STRUCTURAL METAL FRAMING
092900.B01	092900 - GYPSUM BOARD
123570.A02	123570 – SOLID SURFACE WARDROBE



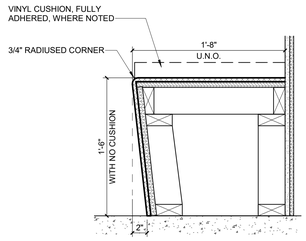
9 TV ENCLOSURE @ LOCK
1 1/2" = 1'-0"



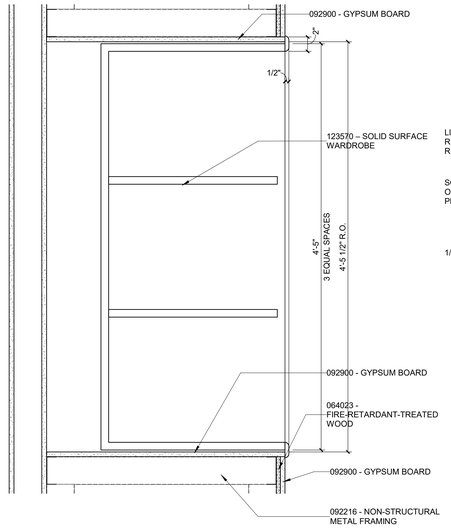
8 TV ENCLOSURE CABINET - PLAN
1 1/2" = 1'-0"



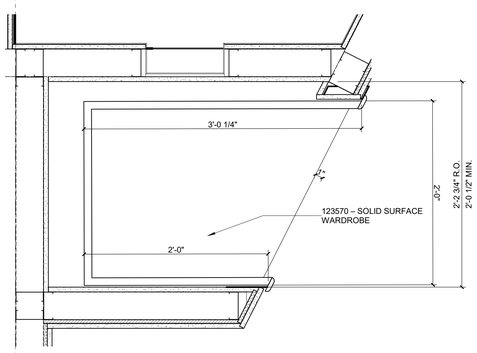
7 TV ENCLOSURE CABINET - SECTION
1 1/2" = 1'-0"



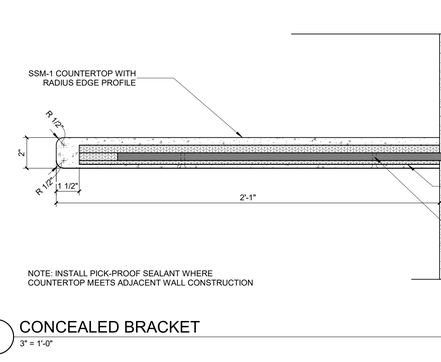
6 BENCH
1 1/2" = 1'-0"



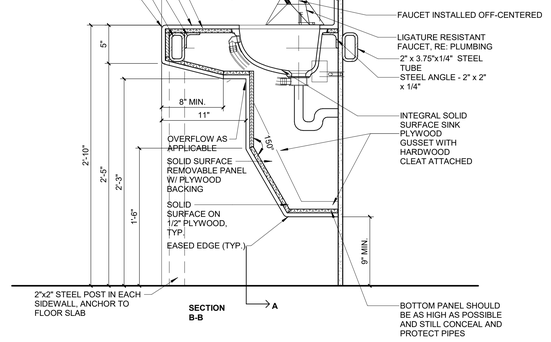
5 PATIENT WARDROBE - SECTION
1 1/2" = 1'-0"



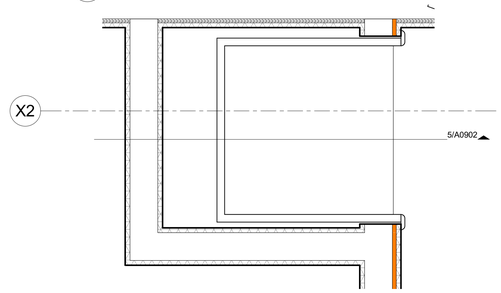
4 PATIENT WARDROBE
1 1/2" = 1'-0"



2 PATIENT WASHROOM SINK ENCLOSURE
1 1/2" = 1'-0"



A



3 PATIENT WARDROBE
1 1/2" = 1'-0"

1 CONCEALED BRACKET
3" = 1'-0"

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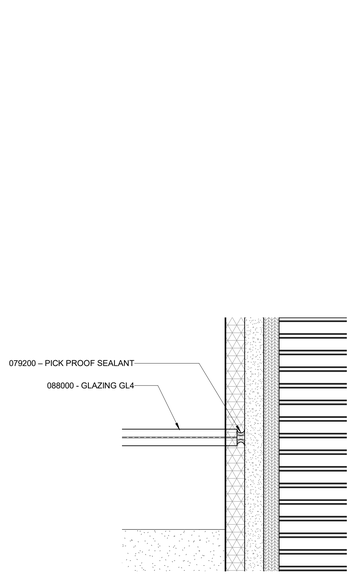
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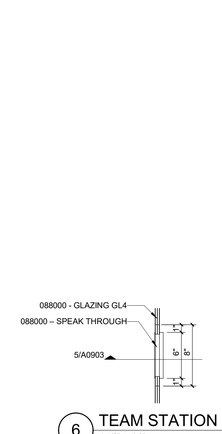
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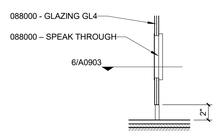
061053.A02	061053 - WOOD BLOCKING
064023.G23	064023 - FIRE-RETARDANT-TREATED WOOD
064023.H09	064023 - COUNTER SUPPORT BRACKET
064023.L08	064023 - SOLID SURFACE
064023.L09	064023 - P LAM COUNTERTOP
079200.A03	079200 – PICK PROOF SEALANT
088000.A06	088000 - GLAZING GL4
088000.E02	088000 – SPEAK THROUGH



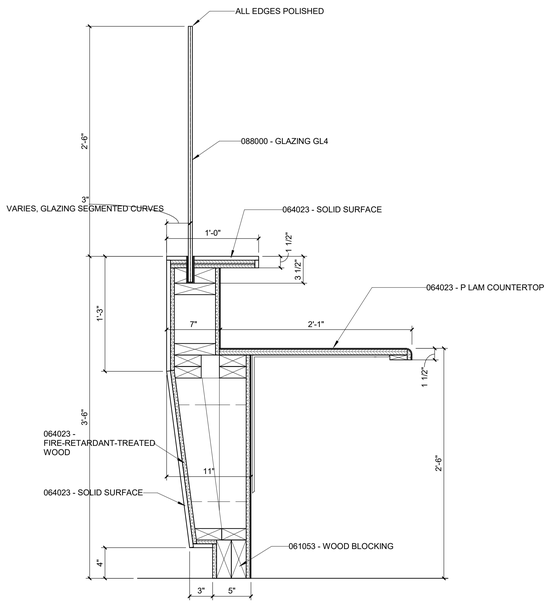
7 TEAM STATION
6" = 1'-0"



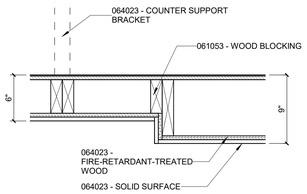
6 TEAM STATION - PLAN VIEW
1 1/2" = 1'-0"



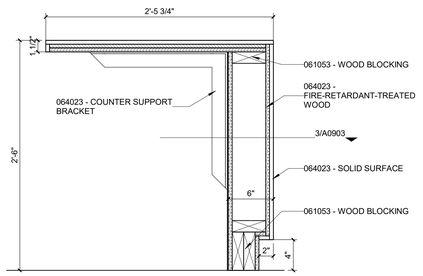
5 TEAM STATION - SECTION
1 1/2" = 1'-0"



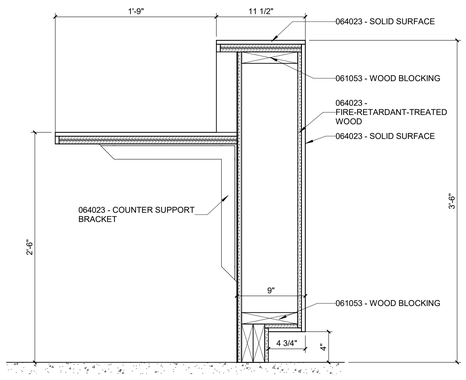
4 TEAM STATION - SECTION
1 1/2" = 1'-0"



3 ADMIN DESK
1 1/2" = 1'-0"



2 ADMIN DESK
1 1/2" = 1'-0"



1 ADMIN DESK
1 1/2" = 1'-0"

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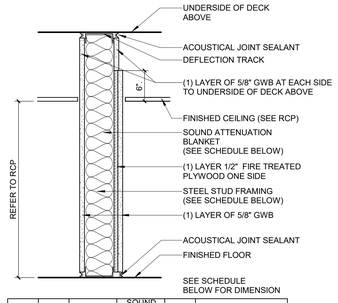
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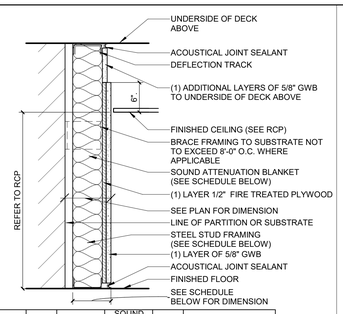
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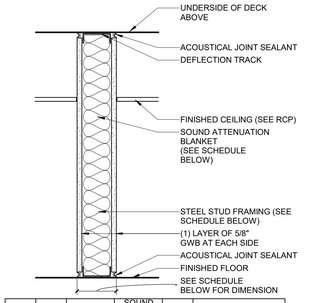
TYPE	STUD SIZE	PART. THICK.	SOUND ATTN BLANKET	STC	KEYED NOTES
ZY	3-5/8"	5-3/8"	3 1/2"	47	N/A

ZY NON-RATED PARTITION
SCALE: 1 1/2" = 1'-0"



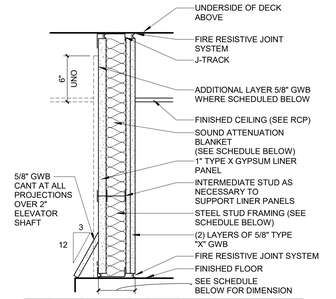
TYPE	STUD SIZE	PART. THICK.	SOUND ATTN BLANKET	STC	KEYED NOTES
ZM	2-1/2"	3-5/8"	2"	N/A	N/A
ZM	3-5/8"	4-3/4"	3-1/2"	N/A	N/A

ZM NON-RATED PARTITION
SCALE: 1 1/2" = 1'-0"



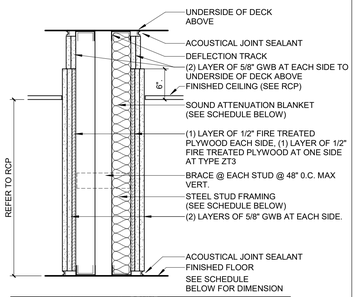
TYPE	STUD SIZE	PART. THICK.	SOUND ATTN BLANKET	STC	KEYED NOTES
R1	3-5/8"	4-7/8"	NONE	N/A	N/A
R2	3-5/8"	4-7/8"	3"	45	N/A
R3	8"	9-1/4"	3"	45	N/A

R NON-RATED PARTITION
SCALE: 1 1/2" = 1'-0"



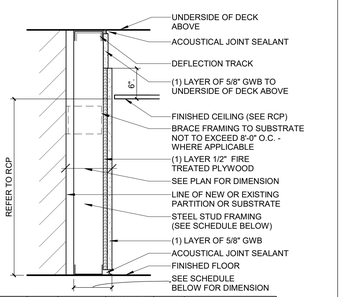
TYPE	STUD SIZE	PART. THICK.	SOUND ATTN BLANKET	STC	KEYED NOTES
G2	4" CH	5-1/4"	NONE	N/A	1
G1	4" CH	5-1/4"	3"	51	1

G 2 HR RATED PARTITION
SCALE: 1 1/2" = 1'-0"
UL DESIGN U415



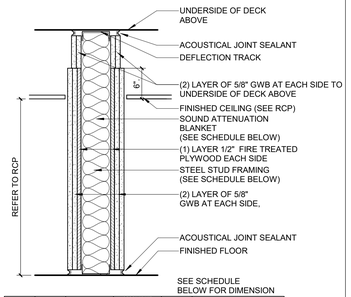
TYPE	STUD SIZE	PART. THICK.	SOUND ATTN BLANKET	STC	KEYED NOTES
ZT2	3-5/8"	SEE PLAN	3"	50	N/A
ZT1	3-5/8"	SEE PLAN	3"	50	N/A

ZT 2-HR RATED PARTITION
SCALE: 1 1/2" = 1'-0"
UL DESIGN U493



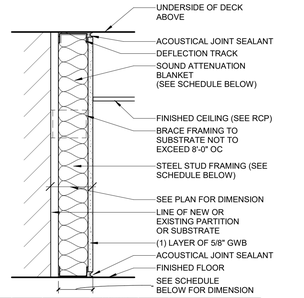
TYPE	STUD SIZE	PART. THICK.	SOUND ATTN BLANKET	STC	KEYED NOTES
ZL	3-5/8"	4-3/4"	NONE	N/A	N/A

ZL NON-RATED PARTITION
SCALE: 1 1/2" = 1'-0"



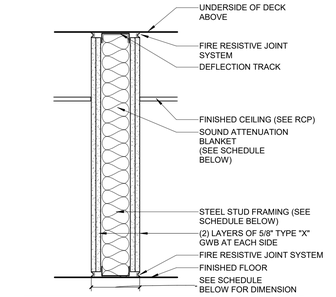
TYPE	STUD SIZE	PART. THICK.	SOUND ATTN BLANKET	STC	KEYED NOTES
ZC	3-5/8"	7-1/4"	3 1/2"	47	N/A

ZC 2-HR RATED PARTITION
SCALE: 1 1/2" = 1'-0"
UL DESIGN U419



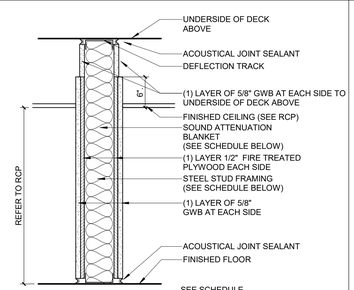
TYPE	STUD SIZE	PART. THICK.	SOUND ATTN BLANKET	STC	KEYED NOTES
M2	3-5/8"	4-1/4"	3"	N/A	N/A

M NON-RATED PARTITION
SCALE: 1 1/2" = 1'-0"



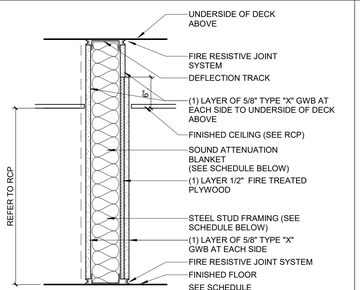
TYPE	STUD SIZE	PART. THICK.	SOUND ATTN BLANKET	STC	KEYED NOTES
C1	3-5/8"	6-1/8"	NONE	N/A	N/A
C2	3-5/8"	6-1/8"	3"	55	N/A

C 2 HR RATED PARTITION
SCALE: 1 1/2" = 1'-0"
UL DESIGN U419



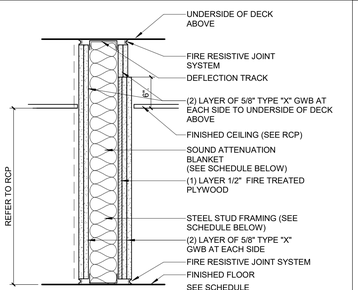
TYPE	STUD SIZE	PART. THICK.	SOUND ATTN BLANKET	STC	KEYED NOTES
ZR1	3-5/8"	6-1/8"	NONE	N/A	N/A
ZR2	3-5/8"	7-1/4"	3 1/2"	47	N/A
ZR3	8"	10-1/4"	3 1/2"	47	N/A

ZR NON-RATED PARTITION
SCALE: 1 1/2" = 1'-0"



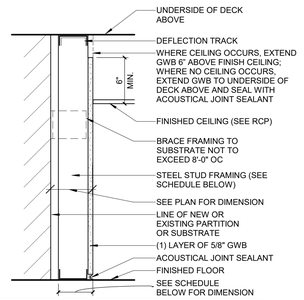
TYPE	STUD SIZE	PART. THICK.	SOUND ATTN BLANKET	STC	KEYED NOTES
ZA	3-5/8"	5-1/2"	3"	50	N/A

ZA 1 HR RATED PARTITION
SCALE: 1 1/2" = 1'-0"
UL DESIGN U419



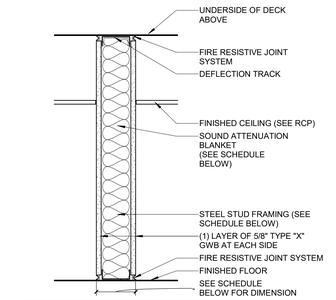
TYPE	STUD SIZE	PART. THICK.	SOUND ATTN BLANKET	STC	KEYED NOTES
ZB2	3-5/8"	7-0"	3"	50	N/A

ZB 2-HR RATED PARTITION
SCALE: 1 1/2" = 1'-0"
UL DESIGN U419



TYPE	STUD SIZE	PART. THICK.	SOUND ATTN BLANKET	STC	KEYED NOTES
L1	1-5/8"	2-1/4"	NONE	N/A	N/A
L2	2-1/2"	3-1/8"	NONE	N/A	N/A
L3	3-5/8"	4-1/4"	NONE	N/A	N/A
L4	6"	6-5/8"	NONE	N/A	N/A

L NON-RATED PARTITION
SCALE: 1 1/2" = 1'-0"



TYPE	STUD SIZE	PART. THICK.	SOUND ATTN BLANKET	STC	KEYED NOTES
A1	3-5/8"	4-7/8"	NONE	N/A	N/A
A2	3-5/8"	4-7/8"	3"	45	N/A

A 1 HR RATED PARTITION
SCALE: 1 1/2" = 1'-0"
UL DESIGN U465

PARTITION SHEET GENERAL NOTES

1. NOTE: SEAL ALL OPENINGS, GAPS, PENETRATIONS, AND JOINTS IN PARTITION TYPES AS FOLLOWS:
A. FIRE-RATED PARTITIONS OR BARRIERS AND SMOKE BARRIERS:
SEAL IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE DIVISION 07 SPECIFICATION SECTIONS FOR PENETRATION FIRESTOP SYSTEMS AND FIRE RESISTIVE JOINT SYSTEMS. REFER TO CODE COMPLIANCE DRAWINGS FOR LOCATIONS OF ALL FIRE- AND SMOKE-RATED PARTITIONS.
B. REFER TO UL DESIGN NUMBER PROVIDED FOR DETAILED CONSTRUCTION REQUIREMENTS.
C. SMOKE PARTITIONS (PARTITIONS DESIGNED TO RESIST THE PASSAGE OF SMOKE): SEAL COMPLETELY WITH ELASTOMERIC SEALANT. FOR THE LOCATION AND EXTENT REFER TO CODE COMPLIANCE DRAWINGS.
D. OTHER LOCATIONS: SEAL AS INDICATED AND REQUIRED ELSEWHERE BY THE CONTRACT DOCUMENTS.
E. FOR ALL NON-RATED PARTITIONS (UNEXPOSED CONDITIONS), CLOSE THE VOID BETWEEN PARTITION AND UNDERSIDE OF FLOOR OR ROOF DECK WITH MINERAL WOOL (SAFING INSULATION) AND PROVIDE 1/2" DEEP NON-SAG ACOUSTICAL JOINT SEALANT, BEADED.

2. ALL FIRE AND SMOKE-RATED PARTITIONS
ACCESSIBLE, CONCEALED FLOOR, FLOOR-CEILING OR ATTIC SPACES, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOKE PARTITIONS, OR ANY OTHER WALL REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS, SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING IN THE CONCEALED SPACE. SUCH IDENTIFICATION SHALL:
OF ALL FIRE- AND SMOKE-RATED PARTITIONS.
A. MARKING FIRE-RESISTANCE-RATED ASSEMBLIES: APPLY HOURLY RATING TEXT IN 4-INCH (101.6 mm) HIGH RED NUMBERS AND BLACK ARIAL FONT LETTERS AT MAXIMUM 10 FEET BETWEEN RATING TEXT APPLICATIONS AS MEASURED FROM BEGINNING OF ONE TEXT APPLICATION TO END OF NEXT TEXT APPLICATION EXTENDING FROM ONE END OF FIRE-RESISTANCE-RATED WALL TO OPPOSITE END OF FIRE-RESISTANCE-RATED WALL. LOCATED 6 INCHES (152.4 mm) ABOVE FINISHED CEILING TO BOTTOM OF TEXT. REFER TO SPECIFICATION SECTION 092900.

3. STC-RATED ASSEMBLIES/SOUND RATED PARTITIONS (ALL PARTITIONS INDICATED WITH SOUND ATTENUATION BLANKET):
A. STC RATINGS ARE BASED ON 20 GAUGE MAXIMUM STUDS SPACED AT 16 INCHES ON CENTER.
B. STC IS BASED ON CEILING WITH MINIMUM 35 CAC
C. STAGGER LAYERS OF GYB ON OPPOSITE SIDES OF THE WALL BY AT LEAST 16 INCHES TO OFFSET SEAMS.
D. STAGGER LAYERS OF GYB ON SAME SIDE OF THE WALL BY AT LEAST FOUR INCHES TO OFFSET SEAMS.
E. MAINTAIN A ¼ INCH GAP BETWEEN THE GYB AND THE FLOOR, FILL WITH ACOUSTICAL JOINT SEALANT.
F. MAINTAIN A ¼ INCH GAP BETWEEN THE GYB AND THE CEILING, FILL WITH ACOUSTICAL JOINT SEALANT, UNLESS PART OF A RATED HEAD OF WALL ASSEMBLY.
G. FILL ANY GYB SEAM GREATER THAN ⅛ INCH WITH ACOUSTICAL JOINT SEALANT.
H. FILL EACH INDIVIDUAL LAYER OF GYB GAP WITH ACOUSTICAL JOINT SEALANT BEFORE THE NEXT LAYER OF GYB IS INSTALLED.
I. WHERE INSULATION BATT THICKNESS IS LESS THAN STUD DEPTH OR ONLY PARTIALLY FILLED IN WALL CAVITIES AND FURR OUTS BATT MUST BE INSTALLED IN A WAY TO AVOID SLUMPING WITHIN THE CAVITY (STRAPPING ADHESIVES, PINS, ETC AS RECOMMENDED BY BATT MFGR)

OTHER LOCATIONS: SEAL AS INDICATED AND REQUIRED ELSEWHERE BY THE CONTRACT DOCUMENTS.

GENERAL NOTES:

1. COORDINATE JOINT SIZES WITH STRUCTURAL TO ALLOW FOR SLAB MOVEMENT
2. ALL INTERIOR WALLS AND INSIDE FACES OF EXTERIOR WALLS IN RISK AREAS LEVEL 2, 3, 4 & 5 TO RECEIVE FIRE RETARDANT TREATED PLYWOOD SUBSTRATE UNDERNEATH GYPSUM BOARD. ALL PLYWOOD OFF CUTS AND END CUTS TO BE TREATED WITH FIRE RETARDANT ON SITE.
3. PROVIDE SECURITY AND PICK-PROOF SEALANT IN RISK AREAS LEVEL 2, 3 ,4 & 5, INCLUDING FIRESTOPPING PENETRATIONS.
4. PROVIDE TILE BACKING BOARD INSTEAD OF GYPSUM BOARD OR GYPSUM BOARD AND PLYWOOD AT ALL FULL HEIGHT TILED AREAS. PROVIDE MOISTURE RESISTANT BACKER BOARD INSTEAD OF GYPSUM BOARD AT HALF HEIGHT TILED AREAS. REFER TO FINISH PLANS. WHERE FULL HEIGHT TILE OCCURS AT FIRE RATED WALL PROVIDE BACKER BOARD OVER GYPSUM BOARD TO MAINTAIN FIRE RATING OF ASSEMBLY.
5. FILL CAVITY AT COLUMN ENCLOSURES/FURRING PARTITIONS IN ITS ENTIRETY WITH LOOSE BATT INSULATION BETWEEN ROOMS

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ISSUE FOR PLAN REVIEW BACKCHECK	21 JAN 2022
ISSUE FOR PLAN REVIEW	27 OCT 2021
ISSUE FOR PLANNING	15 DEC 2020
ISSUE FOR GRADING PERMIT	03 DEC 2020

Rev.	Description	Date
	AGENCY APPROVAL	

ARCHITECT SEAL

LICENSED ARCHITECT
MATTHEW S. GREINER
NO. C27137
REN.: 10-31-2023
STATE OF CALIFORNIA

CONSULTANT SEAL

Drawing Title:

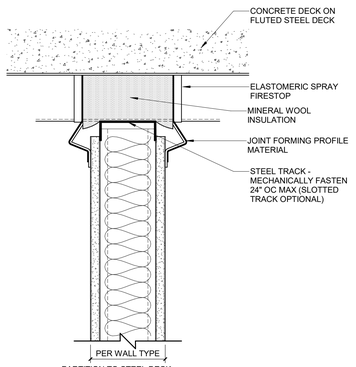
PARTITION TYPES

Issue Date: 01/21/2022
Project No.: 006240.00 Checked by: Checker

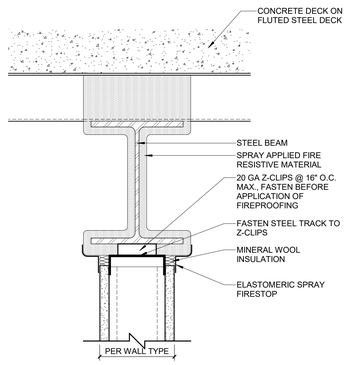
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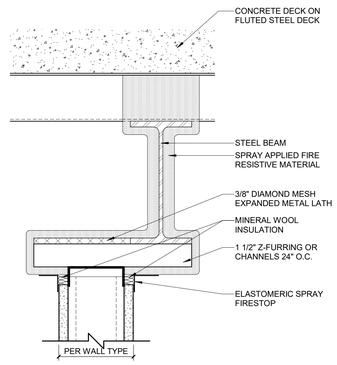
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PARTITION TO STEEL DECK
HEAD OF WALL - 2 HR & 1 HR (UL DESIGN U419/U465)
UL DESIGN : XHBN.HW-D-0363 (JOINT SYSTEM)

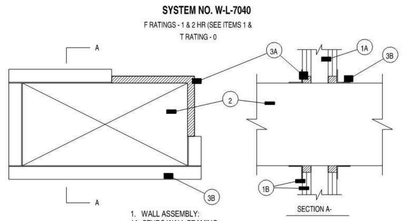


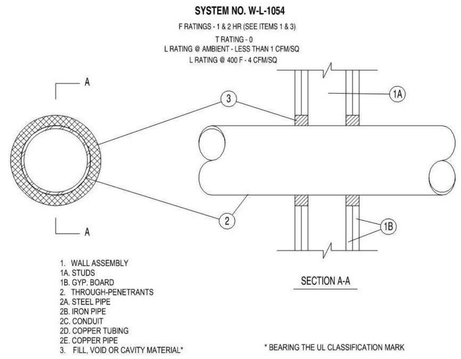
PARTITION TO STEEL BEAM
HEAD OF WALL - 2 HR & 1 HR (UL DESIGN U419/U465)
UL DESIGN : XHBN.HW-D-0252 (JOINT SYSTEMS)
UL DESIGN : XHBN.HW-D-0259 (JOINT SYSTEMS)



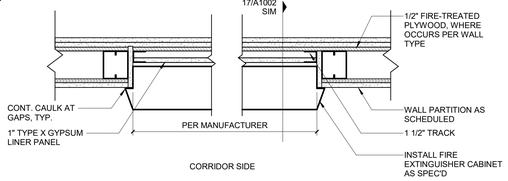
PARTITION OFFSET FROM BEAM
HEAD OF WALL - 2 HR & 1 HR (UL DESIGN U419/U465)
UL DESIGN : XHBN.HW-D-0617 (JOINT SYSTEMS)
UL DESIGN : XHBN.HW-D-0635 (JOINT SYSTEMS)

16 TOP OF STUD CONDITIONS FOR RATED WALLS
3" = 1'-0"

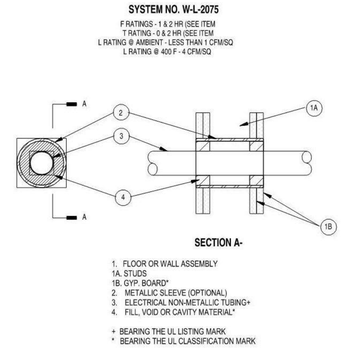




15 DUCT PENETRATION W-L-7040
1" = 1'-0"

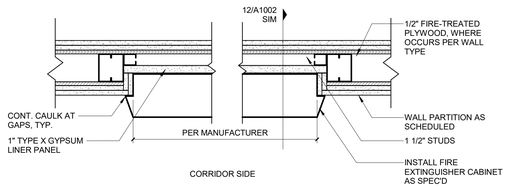


14 THROUGH PENETRATIONS W-L-1054
1" = 1'-0"

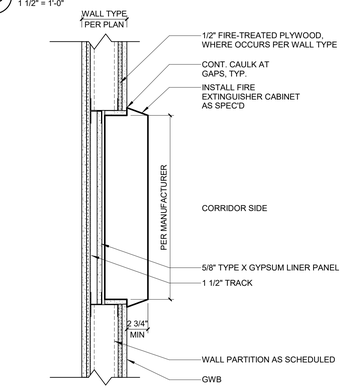


19 FEC - 1HR RECESSED
1 1/2" = 1'-0"

NOTE: SIM AT NON-RATED WALLS

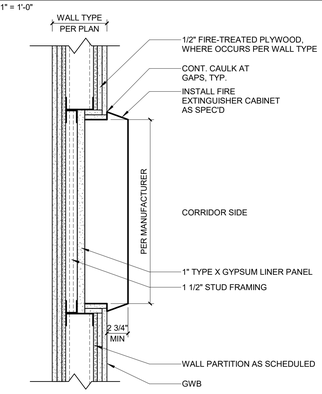


18 FEC - 2HR RECESSED
1 1/2" = 1'-0"

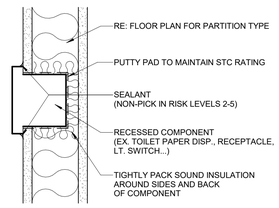


17 FEC - 1HR RECESSED
1 1/2" = 1'-0"

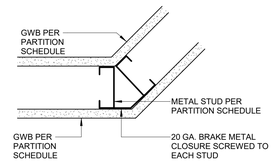
13 THROUGH PENETRATIONS W-L-2075
1" = 1'-0"



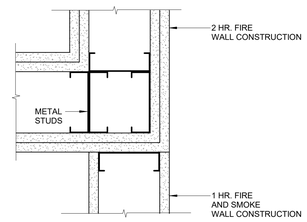
12 FEC - 2HR RECESSED
1 1/2" = 1'-0"



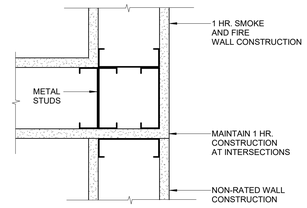
11 STC RECESS DETAIL
1 1/2" = 1'-0"



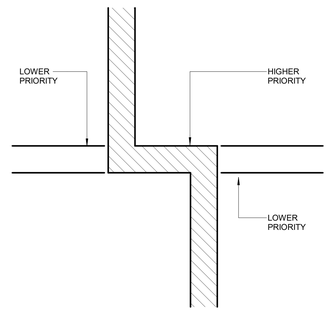
10 CORNER REINFORCING DETAIL
1 1/2" = 1'-0"



9 INTERSECTION OF 1 HR AND 2 HR WALL
1 1/2" = 1'-0"

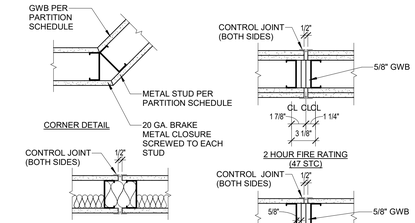


8 INTERSECTION OF NON RATED AND 1 HR WALL
1 1/2" = 1'-0"



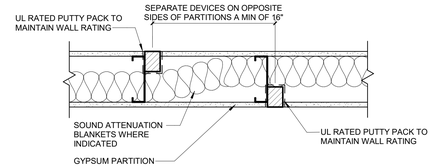
CONSTRUCTION	PRIORITY
TWO HOUR FIRE & SMOKE WALL	1
TWO HOUR FIRE & SHAFT WALL	2
ONE HOUR FIRE & SMOKE WALL	3
ONE HOUR FIRE WALL	4
CORRIDOR WALL	5
NON-RATED WALL	6

7 INTERSECTION PRIORITY
1 1/2" = 1'-0"



MAXIMUM SPACING - CONTROL JOINTS	
PARTITION - INTERIOR	30'
CEILING - INTERIOR	
WITH PERIMETER RELIEF	50'
WITHOUT PERIMETER RELIEF	30'
CEILING - EXTERIOR GYPSUM	30'

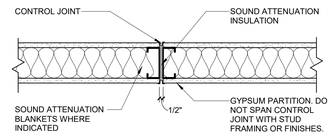
6 CONTROL JOINT DETAILS
1 1/2" = 1'-0"



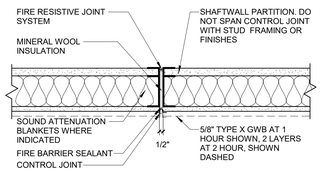
STEEL ELECTRICAL OUTLET BOXES AT FIRE BARRIER WALLS SHALL NOT EXCEED SIXTEEN SQUARE INCHES, SHALL NOT EXCEED 100 SQ IN PER 100 SQ FT OF WALL, AND SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF 24" WHEN ON OPPOSITE SIDES OF A WALL. SECTION 714.4.2.

5 DEVICE SEPARATION AT RATED PARTITIONS
1 1/2" = 1'-0"

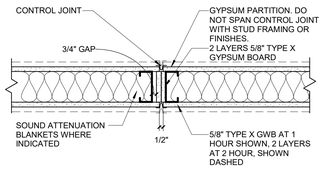
4 DEVICE SEPARATION AT NON-RATED PARTITIONS
1 1/2" = 1'-0"



3 CONTROL JOINT AT NON-RATED PARTITIONS
1 1/2" = 1'-0"



2 CONTROL JOINT AT RATED SHAFTWALL
1 1/2" = 1'-0"



1 CONTROL JOINT AT RATED PARTITION
1 1/2" = 1'-0"

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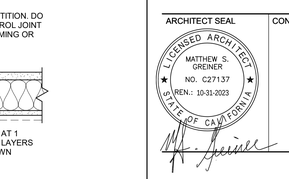
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	AGENCY APPROVAL	

ARCHITECT SEAL



CONSULTANT SEAL

Drawing Title:

PENETRATION & JOINT DETAILS

Issue Date: 01/21/2022
Project No.: 006240.00 Checked by: Checker

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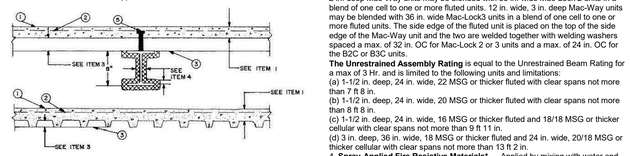
Fire Resistance Ratings - ANSI/UL 263

See General Information for Fire Resistance Ratings - ANSI/UL 263

Design No. D916

December 14, 2010

Restrained Assembly Ratings — 3/4, 1, 1-1/2, 2 or 3 Hr.
(See Items 1, 6, 7, 8 and 11)
Unrestrained Assembly Rating — 0 Hr. (See Items 3, 4 and 4A)
Unrestrained Beam Ratings — 1, 1-1/2, 2 and 3 Hr.
(See Items 4, 4A, 7 and 11)
Load Restricted for Canadian Applications — See Guide BXUV7



Supports — 8x28 min size steel beams. Or steel joists or joist girders (not shown), composite or noncomposite. Welded or bolted to end supports. Designed per S.J.I. specifications for a max tensile stress of 30 ksi. May be either uncoated or provided with a shop coat of paint. For the 2 h or less Restrained or Unrestrained Beam Ratings, top and bottom chords shall each consist of two angles with a min total area of 0.96 and 0.77 sq in., respectively. Web members shall be either round bars or angles. Min area of the end diagonal web shall be 0.444 sq in. Min area of each of the first six interior diagonal webs shall be 0.406 sq in. All other interior web shall have a min area of 0.196 sq in. For the 3 h Restrained or Unrestrained Beam Ratings, each of the top and bottom chords shall each consist of two angles with a min total area of 1.74 sq in. Web members shall be either round bars or angles. Min area of each of the first five end diagonal webs shall be 0.886 sq in. All other interior webs shall have a min area of 0.441 sq in. Bridging per S.J.I. specifications is required when noncomposite joists are used. For noncomposite joists, steel filler pieces of proper size, 1 to 2 in. long shall be welded to and between the top chord angles at midway between all top chord panel points.

1. **Normal Weight or Lightweight Concrete —** Normal weight concrete carbonate or siliceous aggregate, 3500 psi compressive strength, vibrated. Lightweight concrete, expanded shale, or slate aggregate by rotary-kiln method, or expanded clay aggregate by rotary-kiln or sintered-grate method, 3000 psi compressive strength, vibrated, 4 to 7 percent entrained air.

Restrained Assembly Rating Hr	Concrete (Type)	Concrete Unit Weight pcf	Concrete Thkns In.
1	Normal Weight	147-153	3-1/2
1-1/2	Normal Weight	147-153	4
2	Normal Weight	147-153	4-1/2
3	Normal Weight	147-153	5-1/4
3/4 or 1 (See Item 6)	Lightweight	107-113	2-1/2
1	Lightweight	107-120	2-5/8
1-1/2	Lightweight	107-113	3
2	Lightweight	107-113	3-1/4
2	Lightweight	107-116	3-1/4*
2	Lightweight	114-120	3-1/2
3	Lightweight	107-113	4-3/16
3	Lightweight	114-120	4-7/16

For use with 2 or 3 in. steel floor and form units only.

2. **Welded Wire Fabric —** 6 x 6, 10 x 10 SWG.

3. **Steel Floor and Form Units* —** Composite 1-1/2, 1-5/8, 2 or 3 in. deep galv units or 4-1/2 in. deep noncomposite galvanized units. Fluted units may be uncoated or phosphatized/painted. Min gauges are 22 MSG for fluted and 20/20 MSG for cellular units. The following combinations of units may be used:
(1) all 18, 24, 26, 28 or 36 in. wide cellular.
(2) all fluted.
(3) one or two 3 in. deep, 12 in. wide, 18/18 MSG min cellular units, alternating with 3 in. deep fluted or other cellular.
(4) any blend of fluted and 18, 24, 26, 28, or 36 in. wide cellular.
(5) 3 in. deep, 30 in. wide cellular with 8-1/8 in. wide valley along side joints may be used when 3/8 in. diam reinforcing bars are placed 1-1/2 in. to each side of side joints and 1 in. above bottom of unit.
(6) Corrugated, 1-5/16 in. deep, 30 in. wide, 24 MSG min galv units with shear wires factory welded to deck corrugations. Welded to supports 12 in. OC. through welding washers. For shear wire spacing of 8 in. or less the steel deck stress shall not exceed 20 KSI. For shear wire spacing greater than 8 in. OC. but less than or equal to 12 in. OC., steel deck stress shall not exceed 12 KSI.

ASC STEEL DECK, DIV OF ASC PROFILES INC — 24, 30, or 36 in. wide, Types B Hi-Form, BF Hi-Form, N Hi-Form, NF Hi-Form, 2W Hi-Form, 2WF Hi-Form, 3W Hi-Form, 3WF Hi-Form BR Hi-Form, BMOD Hi-Form, BRMOD Hi-Form, DGB Hi-Form, DGBF Hi-Form, DGN Hi-Form, DGN32 Hi-Form, DGNF Hi-Form, DGNF32 Hi-Form, DGW Hi-Form, DG2WF Hi-Form, DG3W Hi-Form, and DG3WF Hi-Form; 32 in. wide Type N-32, NF32, DGN-32, DGNF32; 24 or 30 in. wide Types ASC2 or ASC3. All units may be galvanized or Prime Shield.

CANAM STEEL CORP — 36 in. wide Type P-3623, P-3606, P-3615 and 24 in wide Type P-2432 composite.

CENTRIA — QL Types, 24 in. wide 3 or 3 inverted, UKX, UKX-3, 2 in. 99, AKX, 21 or 21 inverted, 121, NKX, TKX, 24 or 30 in. wide GKX, GKXH, GKX-A; 36 in. wide 99, AKX, WKX; 24, 26, or 36 in. wide NKX; 1.5NKC, NKC, AKX, 2 or 3 in. TKC; 12 in. wide noncomposite Sec. 12, 17 in. wide 21; 26 or 28 in. wide UKX, 87.5 cm wide. Side joints of QL, 99, 121, WKX, TKX, TKC, and Metric units - QL-77-900; QLC-78-900 may be welded together 60 in. OC. Side joints of 99, AKX, WKX, GKX; GKX-A, TKX and Metric units - QL-77-900 and QLC-78-900 may be fastened together with min 1 in. long No. 12x14 self-drilling, self-tapping steel screws 36 in. OC.

CHIA TEH CONSTRUCTION MATERIAL CO LTD — 24 or 36 in. wide Mac-Lok 3; 24 in. wide CFD-3.

CANAM STEEL CORP — 24 in. wide, Types 1-1/2 , 2 or 3 in. LOK-Floor and LOK-Floor Cell; 36 in. wide, Types 2 or 3 in. LOK-Floor and LOK-Floor Cell; 24 in. wide, Types N-LOK and N-LOK Cell; 24, 30 or 36 in. wide, Type 1-1/2 in. B-LOK and B-LOK Cell.

CONSOLIDATED SYSTEMS INC — 24 in. wide Types CFD-2, CFD-3; 24, 30 or 36 in. wide Type CFD-1.5; 24 or 36 in. wide Types Mac-Lok 2, Mac-Lok 3; 24 in. wide, Type B2C, B2FC, NC, NFC; 30 in. wide Type 1.5 in. wide Mac-Wyv cellular 45 MOW, 2-633 MTWA, 3-633 MTWA, 2-633MTWV, 3-633MTWV+, 24 in. wide Type Versa-Dek.

DECK WEST INC — 36 in. wide Type B-DW, Inverted B-DW, BA-DW, Inverted BA-DW, 2-DW or 3-DW. Side joints of Type 2-DW and 3-DW may be fastened together with min 1 in. long No. 12 x 14 self-drilling, self-tapping steel screws 36 in. OC.

DESIGN ASSISTANCE CONSTRUCTION SYSTEMS INC — 36 in. wide Type DACS1.5CD, or 24 in. wide Type DACS2.0CD, or DACS3.0CD.

EPIC METALS CORP — 24 in. wide Types EC150, ECP150, EC300, ECP300, EC366, ECP366, EC150, EC300 inverted, ECA, 30 in. wide Types ECB150, ECBR150; 36 in. wide Type EC266.

GENS METALS INC — 24 or 36 in. wide Types LF2, LF3.

MARLYN STEEL DECKS INC — Type 1.5 CF, 2.0 CF or 3.0 CF.

HAMBRO STRUCTURAL SYSTEMS, DIV OF CANAM STEEL CORP — 36 in. wide, 1-1/2 in. Type P3615HB. The max superimposed loadings for Type P3615HB units shall not exceed 250 PSF. For single spans, the use of the units shall be limited to 5 ft 6 in., 6 ft 0 in. and 6 ft 6 in. max spans for the 22, 20 and 18 gauge units, respectively. For multiple spans, 18 gauge units may be used on a max 7 ft 6 in. spans with a max total superimposed loading of 240 PSF.

MORIN CORP — 24, 30 or 36 in. wide Types LXR-B, LXR-B inverted; 24 or 36 in. wide Type LXR-3W; 36 in. wide Type LXR-2W.

NEW MILLENNIUM BUILDING SYSTEMS L L C — Type 1.5CD, 2.0CD, or 3.0CD. Units may be phos/painted or galvanized.

ROOF DECK INC — 36 in. wide Types LOK 1 1/2, LOK 1 1/2 R; 24 in. wide Types LOK-2, LOK-3.

VALLEY JOIST — 24 or 36 in. wide Types WVC 1-1/2 or WVC 2.

VERCO DECKING INC - A NUCOR CO — 24, 30 or 36 in. wide Types PLB, B, BR; 24 or 36 in. wide Types PLW2, W2, PLW3, W3; 24 in. wide Types PLN, N. 12 in. wide PLW2, W2, PLW3 or W3 units may be blended with 24 or in. wide PLW2, W2, PLW3 or W3 units, respectively. Units may be phos/ptd.

VICWEST CORP — 24 in. wide Type HB306; 32 in. wide Types HB308-INV and HB30V; 36 in. wide Types HB938, HB938CL and HB938-INV.

VULCRAFT, DIV OF NUCOR CORP — 24, 30 or 36 in. wide, Types 1.5VL, 1.5VLI, 1.5VLP, 1.5VLR; 24 or 36 in. wide, Types 2VLI, 3VLI, 2VLP, 3VLP. Side joints of Type 1.5VL may be fastened together with min 1 in. long No. 12x14 self-drilling, self-tapping steel screws 36 in. OC max.

WIREMOLD CO — 24 in. wide, Types 2 or 3 in. WDR.

WHEELING-PITTSBURGH STEEL CORP, DIV OF WHEELING CORRUGATING CO — 30 in. wide Types SB-150, -150N, -150NR, -150R; 30 or 36 in. wide Types SB-B16LF, -B16LFR; 24 or 36 in. wide Types SB-P21LF, -P31LF; 24 in. wide Types SB-200, -300. Type SB-B16LFR may be phos/ptd. Lock Form Type, 24, 30 or 36 in. Types B16LF, B16LFNV; 24 in. wide Types C34LF, N34LF, P34LF, P34LFNV; 12, 24 or 36 in. wide Types C20LF, C30LF, C31LF, P20LF, P30LF, P31LF; 36 in. wide Types 1.5 SB, 1.5 SBR; 24 or 36 in wide Types 2.0 SB, 3.0 SB, 36 in. wide Type High Strength 1.5 SBI, 36 in. wide Type High Strength 1.5 SBN; 30 in wide, Types 1-1/2 in. V-Grip, 1-1/2 in. RV-Grip; 24 or 36 in. wide Types 212V-Grip, 312 V-Grip; 36 in. wide Types 212VW3-Wireway, 312VW3-Wireway.

Components for field — assembled cellular metal raceway units:
Raceway bottom — 24 or 36 in. wide Types 212VS, 312VS.
Raceway cover plate — Types CP-12, CP-16.
Raceway divider — Types DC-20, DC-25.
Raceway isolation trough — Types T-20, T-25, T-30.
Spacing of welds attaching units to supports shall be 12 in. OC for 12, 24, and 36 in. wide units, four welds per sheet for 30 in. wide units, 6 in. OC for 18 in. wide and Sec. 12 units. Unless noted otherwise, adjacent units button-punched or welded together 36 in. OC along side joints. Adjacent 18 in. wide units welded together 30 in. OC along side joints. For **3 Hr. Rating,** units with overlapping type side joints welded together 24 in. OC max.
When a superimposed load of 250 PSF is desired the spacing of welds or button-punches shall not exceed 24 in. OC along side joints.
+12 in. wide, 1-1/2 in. deep Mac-Way units may be blended with 24 in. wide B2C or 30 in. wide B3C units in a blend of one cell to one or more fluted units. 12 in. wide, 2 in. deep Mac-Way units may be blended with 36 in. wide Mac-Lock 2 units in a blend of one cell to one or more fluted units. 12 in. wide, 3 in. deep Mac-Way units may be blended with 36 in. wide Mac-Lock3 units in a blend of one cell to one or more fluted units. The side edge of the fluted unit is placed on the top of the side edge of the Mac-Way unit and the two are welded together with welding washers spaced a max. of 32 in. OC for Mac-Lock 2 or 3 units and a max. of 24 in. OC for the B2C or B3C units.
The Unrestrained Assembly Rating is equal to the Unrestrained Beam Rating for a max of 3 Hr. and is limited to the following units and limitations:
(a) 1-1/2 in. deep, 24 in. wide, 22 MSG or thicker fluted with clear spans not more than 7 ft 8 in.
(b) 1-1/2 in. deep, 24 in. wide, 20 MSG or thicker fluted with clear spans not more than 8 ft 8 in.
(c) 1-1/2 in. deep, 24 in. wide, 16 MSG or thicker fluted and 18/18 MSG or thicker cellular with clear spans not more than 9 ft 11 in.
(d) 3 in. deep, 36 in. wide, 18 MSG or thicker fluted and 24 in. wide, 20/18 MSG or thicker cellular with clear spans not more than 13 ft 2 in.
4. **Spray-Applied Fire Resistive Materials —** Applied by mixing with water and spraying in one or more coats to a final thickness as shown in the tables below, in the tables below to steel beam surfaces which must be clean and free of dirt, loose scale and oil. Min and max density of 15/14 pcf respectively for Type 7GP and 7HD. For method of density determination, refer to Design Information Section.

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Spray Applied Fire Resistive Mil Thkns on Beam In.
1	1	1	1/2
1-1/2	1	1	1/2
1-1/2	1-1/2	1-1/2	13/16
2	1	1	1/2
2	2	2	1-1/16
3	1-1/2	1-1/2	13/16
3	3	3	1-9/16

The thicknesses of Spray-Applied Fire Resistive Materials shown in the table below are applicable when the beams applied to the beams' lower flange edges is reduced by 1/2 that shown in the table:

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Spray Applied Fire Resistive Mil Thkns on Beam In.
1	1	1	9/16
1-1/2	1-1/2	1-1/2	7/8
2	1	1	9/16
2	2	2	1-3/16
3	1-1/2	1-1/2	7/8
3	3	3	1-3/4

The thicknesses of Spray-Applied Fire Resistive Materials shown in the table below are applicable when the thickness applied to the beams' lower flange edges is reduced by 1/2 that shown in the table and the beams are supporting all fluted floor or form units w/lightweight concrete only:

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Spray Applied Fire Resistive Mil Thkns on Beam In.
1	1	1	7/16+
1-1/2	1	1	7/16+
1-1/2	1-1/2	1-1/2	3/4
2	1	1	7/16+
2	2	2	1
3	1-1/2	1-1/2	3/4
3	3	3	1-9/16

+Thickness applied to beams lower flange edge to be 1/4 in. min.

The thickness of material required on the steel joist for the various Ratings are shown in the following table:

Restrained or Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Type of Concrete Slab	Spray Applied Fire Resistive Mil Thkns on Beam In. Joist & Bridging
1	1	NW or LW	1-1/8
1-1/2	1-1/2	NW or LW	1-3/4
2	2	NW or LW	2-1/4
3	3	NW or LW	2-7/8

W R GRACE & CO - CONN — Types Z- 105, Z-106, Z-106/G, Z-106/HY, Monokote Acoustic 5.
GRACE KOREA INC — Types Z-106, Z-106/G, Z-106/HY, Monokote Acoustic 5.
SOUTHWEST FIREPROOFING PRODUCTS CO — Types 7GP, 7HD.
4B. **Alternate Spray-Applied Fire Resistive Materials —** Applied by mixing with water and spraying in one or more coats to a final thickness as shown in the tables below to steel beam surfaces which must be clean and free of dirt, loose scale and oil. The thicknesses shown in the table below are applicable to beams supporting all fluted floor or form units. Min avg and min ind density of 40/36 pcf, respectively for Types Z-146, Z-146PC and Z-146T cementitious mixture. Min avg and min ind density of 50/45 pcf respectively for Types Z-156, Z-156T and Z-156PC.
For density determination refer to Design Information Section.

Unrestrained Beam Rating Hr	Restrained Assembly Rating Hr	Concrete Type	Spray Applied Fire Resistive Mil Thkns on Beam In.
1	1, 1-1/2, 2	LW	9/16
1-1/2	1, 1-1/2, 2, 3	LW	7/8
1	1, 1-1/2, 2	NW	3/4
1-1/2	1, 1-1/2, 2, 3	LW	1

ARABIAN VERMICULITE INDUSTRIES — Type MK-5.
W R GRACE & CO - CONN — Types MK-4, MK-5, MK-6/HY, MK-6s, RG, Monokote Acoustic 1.
GRACE KOREA INC — Types MK-6/CBF, MK-6/ED, MK-6/HY, MK-6s, Monokote Acoustic 1.
PYROK INC — Type LD.
SOUTHWEST FIREPROOFING PRODUCTS CO — Types 4, 5, 5EF, 5GP, 5MD, 7GP, 7HD, 8EF, 8GP, 8MD, 9EF, 9GP, 9MD.
4A. **Alternate Spray-Applied Fire Resistive Materials* —** Applied by mixing with water and spraying in one or more coats to a final thickness as shown in the tables below to steel beam surfaces which must be clean and free of dirt, loose scale and oil. When fluted steel deck is used the area between the steel deck and the beams top flange shall be sprayed min avg and min ind density of 19/18 pcf, respectively for Types 7GP, 7HD, 105. Min avg and min ind density of 22/19 pcf, respectively for Types Z-106, Z-106/G, Z-106/HY. For method of density determination, refer to Design Information Section.

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Spray Applied Fire Resistive Mil Thkns on Beam In.
1	1	1	3/8
1-1/2	1	1	1/2
1-1/2	1-1/2	1-1/2	3/4
2	1	1	1/2
2	2	2	1-1/16
3	1-1/2	1-1/2	3/4
3	3	3	1-9/16

The thicknesses of Spray-Applied Fire Resistive Materials shown in the table below are applicable when the beams are supporting all fluted floor or form units w/lightweight concrete only:

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Spray Applied Fire Resistive Mil Thkns on Beam In.
1	1	1	7/16
1-1/2	1	1	7/16
1-1/2	1-1/2	1-1/2	3/4
2	1	1	7/16
2	2	2	1
3	1-1/2	1-1/2	3/4
3	3	3	1-5/16

+Thickness applied to beams lower flange edge to be 1/4 in. min.

The thickness of material required on the steel joist for the various Ratings are shown in the following table:

Restrained or Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Type of Concrete Slab	Spray Applied Fire Resistive Mil Thkns on Beam In. Joist & Bridging
1	1	NW or LW	1-1/8
1-1/2	1-1/2	NW or LW	1-3/4
2	2	NW or LW	2-1/4
3	3	NW or LW	2-7/8

W R GRACE & CO - CONN — Types Z- 105, Z-106, Z-106/G, Z-106/HY, Monokote Acoustic 5.
GRACE KOREA INC — Types Z-106, Z-106/G, Z-106/HY, Monokote Acoustic 5.
SOUTHWEST FIREPROOFING PRODUCTS CO — Types 7GP, 7HD.
4B. **Alternate Spray-Applied Fire Resistive Materials —** Applied by mixing with water and spraying in one or more coats to a final thickness as shown in the tables below to steel beam surfaces which must be clean and free of dirt, loose scale and oil. The thicknesses shown in the table below are applicable to beams supporting all fluted floor or form units. Min avg and min ind density of 40/36 pcf, respectively for Types Z-146, Z-146PC and Z-146T cementitious mixture. Min avg and min ind density of 50/45 pcf respectively for Types Z-156, Z-156T and Z-156PC.
For density determination refer to Design Information Section.

Unrestrained Beam Rating Hr	Restrained Assembly Rating Hr	Concrete Type	Spray Applied Fire Resistive Mil Thkns on Beam In.
1	1, 1-1/2, 2, 3	LW	9/16
1-1/2	1, 1-1/2, 2, 3	LW	7/8
1	1, 1-1/2, 2	NW	3/4
1-1/2	1, 1-1/2, 2, 3	LW	1

GRACE KOREA INC — Type Z-146 investigated for exterior use
W R GRACE & CO - CONN — Types Z-146, Z-146T, Z146PC, Z-156, Z-156T and Z-156PC investigated for exterior use
5. **Shear-Connector Studs — Optional —** Studs 3/4 in. diam by 3 in. long, for 1-1/2 in. deep form units to 5-1/4 in. long for 3 in. deep form units, headed type or equivalent per AISC specifications. Welded to the top flange of the beam through the steel form units.
6. **Electrical Inserts —** (Not shown) Classified as **"Outlet Boxes and Fittings Classified for Fire Resistance."**
CENTRIA — Preset Inserts
For use with 2-1/2 in. lightweight concrete topping over GL-WKX steel floor units. Installed over factory-punched holes in floor units per accompanying installation instructions.
Spacing shall not be more than one insert in each 14 sq ft, of floor area with spacing along floor units not less than 46 in. OC. The holes cut in sheet cover for passage of wires shall be no more than 1/8 in. larger diam. than wire. Restrained Assembly Rating is 3/4 hr with Tapmate II-FS-1 and 1 hr with Tapmate II-FS-2 inserts.
CENTRIA — Tapmate II-FS-1, II-FS-2; Series KEB.
(2) **Wiremold Co**, — After set Inserts.
Single-service after set inserts installed per accompanying installation instructions in 2-1/2 in. diam hole core-drilled through min 3-1/4 in. thick concrete topping to top of cell of any min 3 in. deep cellular steel floor unit specified under Item 3. Spacing shall be no more than one insert in each 10 sq ft of floor area in each span with a min center to center spacing of 16 in. If the high potential and low potential raceways of the cellular steel floor unit are separated by a valley filled with concrete, the center to center spacing of the high potential and low potential single-service after set inserts may be reduced to a min of 7-1/2 in. Restrained Assembly Rating is 2 hr or less with internally protected type 436 after set insert with Type M4-, M6- or M8- Series single-service activation fitting.
WIREMOLD CO — Internally protected Type 436 after set insert with Type M4-, M6- or M8- Series single-service activation fitting.
7. **Mineral and Fiber Board** — (Not shown). Applied over concrete floor with no restriction on board thickness. When mineral and fiber boards are used, the unrestrained beam rating shall be increased by a minimum of 1/2 hr.
See Mineral and Fiber Board (CERZ) category for names of manufacturers.
8. **Roof Covering Materials*** — (Optional, not shown)Consisting of materials compatible with insulations described herein which provide Class A, B or C coverings. See Built-Up Roof Covering Materials in Building Materials Directory.
9. **Insulating Concrete —** (not shown) Optional. Various types of insulating concrete prepared and applied in the thickness indicated:
A. **Vermiculite Concrete —** (not shown) Optional.
1. Blend 6 to 8 cu. ft. of Vermiculite Aggregate* to 94 lb. Portland Cement and air entraining agent. Min thickness of 2 in. as measured to the top surface of the structural concrete or foamed plastic (Item 10) when it is used.
ELASTIZELL CORP OF AMERICA
SIPLAST INC
VERMICULITE PRODUCTS INC
2. Blend 3.5 cu. ft. of Type NVC Concrete Aggregate* or Type NVS Vermiculite Aggregate* coat, 1/8 in. thickness beneath foamed plastic (Item 10) when used, 1 in. min topping thickness.
SIPLAST INC
VERMICULITE PRODUCTS INC
Vermiculite concrete may be covered with Roof Covering Materials (Item 8).
B. **Cellular Concrete — Roof Topping Mixture* —** concentrate mixed with water and Portland cement per manufacturers specifications. Cast dry density and 28—day min. compressive strength of 190 psi as determined in accordance with ASTM C495— 86.
CELCORE INC — Type Celcore with cast dry density of 31 (+ or - 3.0) pcf or Type Celcore MF with cast dry density of 29 (+ or - 3.0) pcf.
CELLULAR CONCRETE L C — Cast dry density of 37 (+ or -) 3.0 pcf.
ELASTIZELL CORP OF AMERICA — Type Y Mix #1 of cast dry density 39 (+ or -) 3.0 pcf, Mix #2 of cast dry density 40 (+ or -) 3.0 pcf, Mix #3 of cast dry density 47 (+ or -) 3.0 pcf.
C. **Cellular Concrete — Roof Topping Mixture* —** Concentrate mixed with water and Portland cement per manufacturers specifications. 28-day min. compressive strength of 190 psi as determined with ASTM C495-66.
LITE-CRETE INC — Cast dry density of 75 pcf (+ or -) 3.0 pcf.
SIPLAST INC — Mix No. 1 or 2. Cast dry density of 32+3 (Mix No. 1) or 36+3 (Mix No. 2) pcf.
D. **Perlite Concrete —** 6 cu ft. of Perlite Aggregate* to 94 lb of Portland Cement and 1-1/2 pt air entraining agent. Min. thickness 2 in. as measured to the top surface of structural concrete or foamed plastic (Item 10A) when it is used. See Perlite Aggregate (CFTX) in Fire Resistance Directory for names of manufacturers.
E. **Cellular Concrete — Roof Topping Mixture* —** Foam Concentrate mixed with water, Portland Cement and UL Classified Vermiculite Aggregate per manufacturer's application instructions. Cast dry density of 33 (+ or -) 3.0 pcf and 28-day compressive strength of min 250 psi as determined in accordance with ASTM C495-86.
CELLULAR CONCRETE L L C — Mix No. 3.
SIPLAST INC — Mix No. 3.
F. **Floor Topping Mixture* —** (Optional, not shown) — Approx 4.5 gal of water to 41 lbs of NVS Premix floor topping mixture. Slurry coat 1/8 in. thickness beneath foamed plastic (Item 10) when used , 1 in. min topping thickness.
GRACE KOREA INC — Types Z-106, Z-106/G, Z-106/HY, Monokote Acoustic 5.
PYROK INC — Type LD.
SOUTHWEST FIREPROOFING PRODUCTS CO — Types 4, 5, 5EF, 5GP, 5MD, 7GP, 7HD, 8EF, 8GP, 8MD, 9EF, 9GP, 9MD.
4A. **Alternate Spray-Applied Fire Resistive Materials* —** Applied by mixing with water and spraying in one or more coats to a final thickness as shown in the tables below to steel beam surfaces which must be clean and free of dirt, loose scale and oil. When fluted steel deck is used the area between the steel deck and the beams top flange shall be sprayed min avg and min ind density of 19/18 pcf, respectively for Types 7GP, 7HD, 105. Min avg and min ind density of 22/19 pcf, respectively for Types Z-106, Z-106/G, Z-106/HY. For method of density determination, refer to Design Information Section.

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Spray Applied Fire Resistive Mil Thkns on Beam In.
1	1	1	3/8
1-1/2	1	1	1/2
1-1/2	1-1/2	1-1/2	3/4
2	1	1	1/2
2	2	2	1-1/16
3	1-1/2	1-1/2	3/4
3	3	3	1-9/16

The thicknesses of Spray-Applied Fire Resistive Materials shown in the table below are applicable when the beams applied to the beams' lower flange edges is reduced by 1/2 that shown in the table:

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Spray Applied Fire Resistive Mil Thkns on Beam In.
1	1	1	9/16
1-1/2	1-1/2	1-1/2	7/8
2	1	1	9/16
2	2	2	1-3/16
3	1-1/2	1-1/2	7/8
3	3	3	1-3/4

The thicknesses of Spray-Applied Fire Resistive Materials shown in the table below are applicable when the thickness applied to the beams' lower flange edges is reduced by 1/2 that shown in the table and the beams are supporting all fluted floor or form units w/lightweight concrete only:

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Spray Applied Fire Resistive Mil Thkns on Beam In.
1	1	1	7/16+
1-1/2	1	1	7/16+
1-1/2	1-1/2	1-1/2	3/4
2	1	1	7/16+
2	2	2	1
3	1-1/2	1-1/2	3/4
3	3	3	1-9/16

+Thickness applied to beams lower flange edge to be 1/4 in. min.

The thickness of material required on the steel joist for the various Ratings are shown in the following table:

Restrained or Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Type of Concrete Slab	Spray Applied Fire Resistive Mil Thkns on Beam In. Joist & Bridging
1	1	NW or LW	1-1/8
1-1/2	1-1/2	NW or LW	1-3/4
2	2	NW or LW	2-1/4
3	3	NW or LW	2-7/8

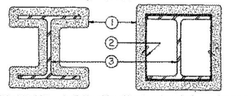
W R GRACE & CO - CONN — Types Z- 105, Z-106, Z-106/G, Z-106/HY, Monokote Acoustic 5.
GRACE KOREA INC — Types Z-106, Z-106/G, Z-106/HY, Monokote Acoustic 5.
SOUTHWEST FIREPROOFING PRODUCTS CO — Types 7GP, 7HD.
4B. **Alternate Spray-Applied Fire Resistive Materials —** Applied by mixing with water and spraying in one or more coats to a final thickness as shown in the tables below to steel beam surfaces which must be clean and free of dirt, loose scale and oil. The thicknesses shown in the table below are applicable to beams supporting all fluted floor or form units. Min avg and min ind density of 40/36 pcf, respectively for Types Z-146, Z-146PC and Z-146T cementitious mixture. Min avg and min ind density of 50/45 pcf respectively for Types Z-156, Z-156T and Z-156PC.
For density determination refer to Design Information Section.

Unrestrained Beam Rating Hr	Restrained Assembly Rating Hr	Concrete Type	Spray Applied Fire Resistive Mil Thkns on Beam In.
1	1, 1-1/2, 2, 3	LW	9/16
1-1/2	1, 1-1/2, 2, 3	LW	7/8
1	1, 1-1/2, 2	NW	3/4
1-1/2	1, 1-1/2, 2, 3	LW	1

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FIRE-RESISTANCE RATINGS - ANSI/UL 263 (BXUV)

Design No. X854
Ratings — 1, 1-1/2, 2, 3 and 4 h.



1. **Spray-Applied Fire Resistive Materials*** — Applied by mixing with water and spraying in more than one coat to the thicknesses shown below, to steel surfaces which are clean and free of dirt, loose scale, and oil. Min avg and min ind density of 15/14 pcf respectively. Min avg and min ind density of 22/19 pcf respectively for Types Z-106, Z-106/GJ, Z-106/HY. Min avg and min ind density of 40/36 pcf respectively for Types Z-146, Z-146PC and Z-146T cementitious mixture. Min avg and min ind density of 50/45 pcf respectively for Types Z-156, Z-156T and Z-156PC. For method of density determination, see Design Information Section, Sprayed Material.
The thickness of Spray-Applied Fire Resistive Materials to be applied to all surfaces of the column (Item 1) required for rating periods of 1 h, 1-1/2 h, 2 h, 3 h, 4 h may be determined by the equation:

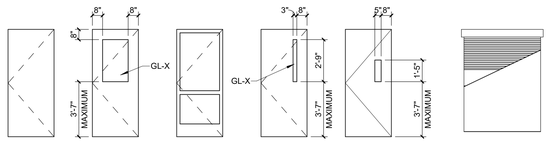
$$h = \frac{R}{1.05W/D+0.61}$$

Where:
h = Spray-Applied Fire Resistive Materials thickness in the range 0.25-3.875 in.
R = Fire resistance rating in hours (1 - 4 h)
D = Heated perimeter of steel column in inches
W = Weight of steel column in lbs per foot
W/D = 0.338 to 6.76
As an alternate to the equation, the minimum thickness of Spray-Applied Fire Resistive Materials required for various fire resistance ratings of contour sprayed or boxed columns may be determined from the table below:

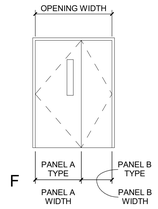
TABLE 1

Col Size	W/D	Min Thk (In.)			
		1 Hr	1-1/2 Hr	2 Hr	3 Hr	4 Hr
W4x13	0.556	11/16	1-3/16	1-5/8	2-1/2	3-3/8
W5x16	0.55	11/16	1-3/16	1-5/8	2-1/2	3-3/8
W5x19	0.644	5/8	1-1/8	1-7/16	2-5/16	3-1/8
W6x9	0.338	15/16	1-1/2	2	2-1/2	3-13/16
W6x12	0.448	13/16	1-3/8	1-13/16	2-1/2	3-3/4
W6x15	0.431	13/16	1-3/8	1-13/16	2-1/2	3-3/4
W6x16	0.584	11/16	1-3/16	1-9/16	2/7/16	3-5/16
W6x20	0.563	11/16	1-3/16	1-9/16	2-1/2	3-3/16
W6x25	0.696	5/8	1-1/16	1-3/8	2	2-11/16
W8x10	0.31	15/16	1-1/2	2	2-11/16	3-15/16
W8x15	0.481	3/4	1-1/16	1-3/4	2-1/2	3-5/16
W8x18	0.499	3/4	1-1/16	1-3/4	2-1/2	3-1/2
W8x21	0.577	11/16	1-1/16	1-7/16	2-1/16	2-13/16
W8x24	0.591	11/16	1-1/8	1-9/16	2/7/16	3-5/16
W8x28	0.688	5/8	1-1/16	1-3/8	2	2-11/16
W8x31	0.665	5/8	1-1/16	1-7/16	2-5/16	3-1/16
W8x35	0.749	9/16	1	1-5/16	2	2-9/16
W8x40

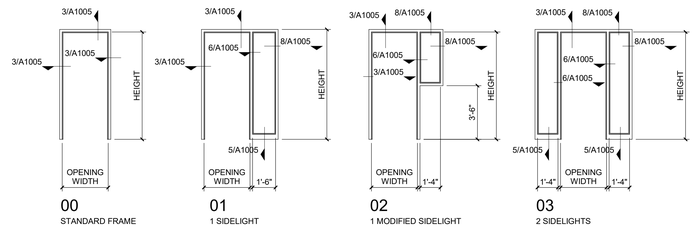
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DOOR PANEL TYPES

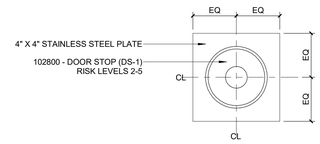


PANEL KEY

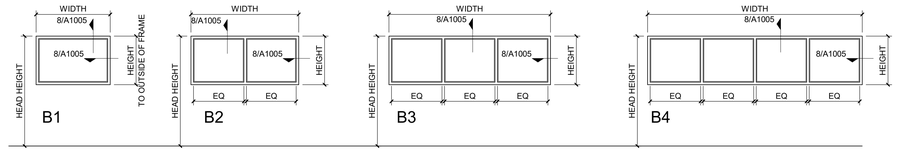


FRAME NUMBER - STP = STANDARD STOP
FRAME NUMBER - ABS = ANTI-BARRICADE SYSTEM
FRAME NUMBER - NS = NO STOP
FRAME NUMBER - DA = DOUBLE ACTING
FRAME NUMBER - DE = DOUBLE EGRESS
FRAME NUMBER - SL = SLIDING
FRAME NUMBER - CODE ABOVE_C = CENTER MULLION

DOOR FRAME CONFIGURATIONS

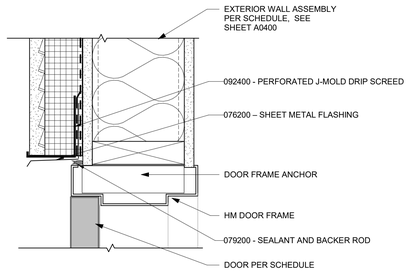


BEHAVIORAL HEALTH DOOR STOP (RISK LEVELS 2-5)

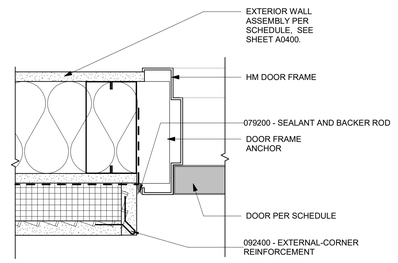


BORROWED LIGHT FRAME TYPES

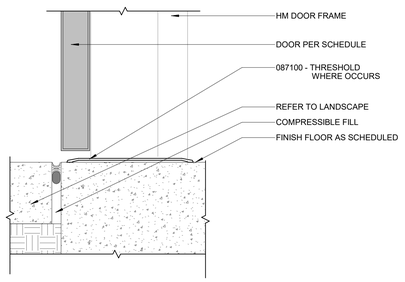
NOTE: SEE BORROWED LIGHT SCHEDULE ON A1006 FOR GLAZING TYPE



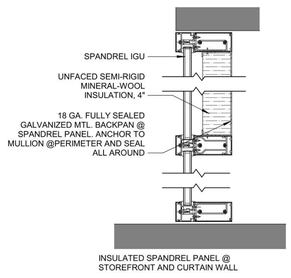
13 EXTERIOR HM DOOR HEAD
3" = 1'-0"



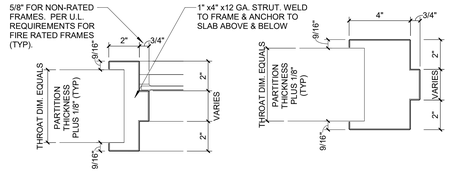
14 EXTERIOR HM DOOR JAMB
3" = 1'-0"

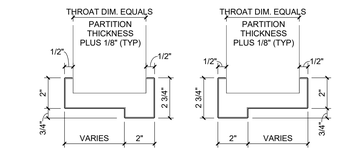


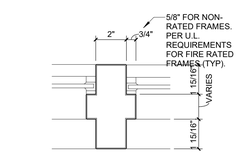
15 EXTERIOR HM DOOR THRESHOLD
3" = 1'-0"

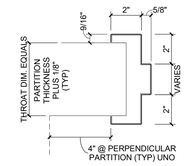


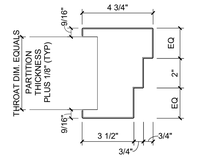
12 TYP INSULATED PANEL DETAIL @ SPANDREL GLAZING
1 1/2" = 1'-0"

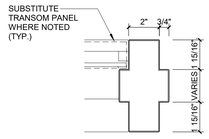


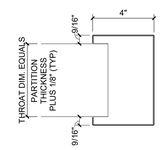


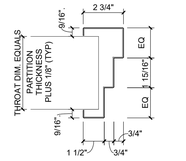


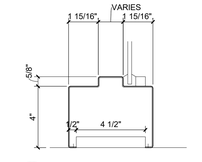


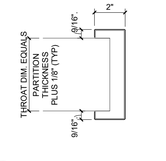












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	AGENCY APPROVAL	

ARCHITECT SEAL

LICENSED ARCHITECT
MATTHEW S. GREINER
NO. C27137
REN.: 10-31-2023
STATE OF CALIFORNIA

CONSULTANT SEAL

Drawing Title:

DOORS & BORROWED LIGHTS

Issue Date: 01/21/2022

Project No.: 006240.00 Checked by: Checker

A1005

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DOOR SCHEDULE

OPENING NUMBER	DOOR: OPENING WIDTH	OPENING HEIGHT	PANEL A TYPE	PANEL A WIDTH	PANEL B TYPE	PANEL B WIDTH	THICKNESS	MATERIAL	GLASS TYPE	FRAME: TYPE	MATERIAL	GLASS TYPE	FIRE RATING (IN MINUTES)	STC	HARDWARE GROUP	COMMENTS
LEVEL 01																
1-003	3' - 0"	7' - 0"	NV	3' - 0"			1 3/4"	FRL	GL-3	00-STP	HM	NONE			19	
1-005	3' - 0"	7' - 0"	F	3' - 0"			1 3/4"	FRL	NONE	00-STP	HM	NONE			29	
1-006	3' - 0"	7' - 0"	F	3' - 0"			1 3/4"	FRL	NONE	00-STP	HM	NONE			10	
1-011A	3' - 6"	7' - 0"	NV	3' - 6"			1 3/4"	FRL	GL-3	00-STP	HM	NONE			21	
1-011B	3' - 0"	7' - 0"	F	3' - 0"			1 3/4"	FRL	NONE	00-STP	HM	NONE	90		22	
1-100	3' - 6"	7' - 0"	NV	3' - 6"			1 3/4"	FRL	GL-3	00-STP	HM	NONE			21	
1-101	3' - 6"	7' - 0"	F	3' - 6"			1 3/4"	FRL	NONE	00-STP	HM	NONE	45		9	
1-102	3' - 6"	7' - 0"	F	3' - 6"			1 3/4"	FRL	NONE	00-STP	HM	NONE	45		18	
1-103	3' - 0"	7' - 0"	F	3' - 0"			1 3/4"	FRL	NONE	00-STP	HM	NONE			17	
1-104	3' - 0"	7' - 0"	F	3' - 0"			1 3/4"	FRL	NONE	00-STP	HM	NONE	45		19	
1-105	3' - 0"	7' - 0"	F	3' - 0"			1 3/4"	FRL	NONE	00-STP	HM	NONE			29	
1-106	3' - 0"	7' - 0"	F	3' - 0"			1 3/4"	FRL	NONE	00-STP	HM	NONE			29	
1-107	3' - 6"	7' - 0"	F	3' - 6"			1 3/4"	FRL	NONE	00-STP	HM	NONE			17	
1-120	3' - 0"	7' - 0"	F	3' - 0"			1 3/4"	FRL	NONE	00-STP	HM	NONE	90			Panic Hardware
1-123	3' - 0"	7' - 0"	F	3' - 0"			1 3/4"	FRL	NONE	00-STP	HM	NONE			11	
1-124A	3' - 6"	7' - 0"	F	3' - 6"			1 3/4"	FRL	NONE	00-STP	HM	NONE	45		18	
1-124B	3' - 6"	7' - 0"	F	3' - 6"			1 3/4"	FRL	NONE	00-STP	HM	NONE	45		22	
1-125	3' - 0"	7' - 0"	NV	3' - 0"			1 3/4"	FRL	GL-4	00-STP	HM	NONE			10	
1-126	3' - 0"	7' - 0"	NV	3' - 0"			1 3/4"	FRL	GL-4	00-STP	HM	NONE			16	
1-127	3' - 0"	7' - 0"	NV	3' - 0"			1 3/4"	FRL	GL-4	00-STP	HM	NONE			10	
1-128	3' - 0"	7' - 0"	NV	3' - 0"			1 3/4"	FRL	GL-4	00-STP	HM	NONE			12	
1-130	3' - 6"	7' - 0"	NV	3' - 6"			1 3/4"	FRL	FRGL-1	00-STP	HM	NONE	0		22	
1-131	3' - 0"	7' - 0"	F	3' - 0"			1 3/4"	FRL	NONE	00-STP	HM	NONE	0		17	
1-132A	3' - 0"	7' - 0"	NV	3' - 0"			1 3/4"	FRL	FRGL-1	00-STP	HM	NONE	0		20	
1-132B	3' - 0"	7' - 0"	NV	3' - 0"			1 3/4"	FRL	GL-3	00-STP	HM	NONE	90		23	
1-133	3' - 0"	7' - 0"	F	3' - 0"			1 3/4"	FRL	NONE	00-STP	HM	NONE	0		17	
1-134	3' - 0"	7' - 0"	HG	3' - 0"			1 3/4"	FRL	GL-4	00-STP	HM	NONE			19	
1-192B	3' - 0"	7' - 0"	F	3' - 0"			1 3/4"	HM	NONE	00-STP	HM	NONE	90		15	
1-193	3' - 6"	7' - 10"	F	3' - 6"			1 3/4"	FRL	NONE	00-STP	HM	NONE				
1-194	3' - 0"	7' - 0"	NV	3' - 0"			1 3/4"	FRL	GL-3	00-STP	HM	NONE				
1-200A	3' - 6"	7' - 0"	NV	3' - 6"			1 3/4"	FRL	GL-3	01-STP	HM	GL-3	0		25	Panic Hardware
1-200B	3' - 6"	7' - 0"	NV	3' - 6"			1 3/4"	FRL	FRGL-1	01-STP	HM	FRGL-1	90		26	Panic Hardware
1-211A	3' - 6"	7' - 0"	MNV2S : NV	3' - 6"			1 3/4"	FRL	GL-3	00-ABS	HM	NONE	0		24	
1-213	3' - 0"	7' - 0"	MNV2S : NV	3' - 0"			1 3/4"	FRL	GL-3	00-ABS	HM	NONE			24	INTEGRAL BLINDS
1-214	3' - 0"	7' - 0"	MNV2S : NV	3' - 0"			1 3/4"	FRL	GL-3	00-ABS	HM	NONE			24	INTEGRAL BLINDS
1-215	3' - 0"	7' - 0"	MNV2S : NV	3' - 0"			1 3/4"	FRL	GL-3	00-ABS	HM	NONE			24	INTEGRAL BLINDS
1-216	3' - 6"	7' - 0"	MNV2S : NV	3' - 6"			1 3/4"	FRL	GL-3	00-ABS	HM	NONE			24	
1-217	3' - 0"	7' - 0"	MF2S	3' - 0"			1 3/4"	FRL	NONE	00-ABS	HM	NONE			24	
1-218	3' - 0"	7' - 0"	MF2S	3' - 0"			1 3/4"	FRL	NONE	00-ABS	HM	NONE			27	
1-219	3' - 0"	7' - 0"	MNV2S : NV	3' - 0"			1 3/4"	FRL	GL-3	01-ABS	HM	GL-3			24	
1-220	3' - 0"	7' - 0"	MNV2S : NV	3' - 0"			1 3/4"	FRL	GL-3	01-ABS	HM	GL-3	90		24.1	
1-300	6' - 0"	7' - 0"	NV	3' - 0"	NV	3' - 0"	1 3/4"	HM	NONE	00-DE	HM	NONE	90			Panic Hardware
1-301	3' - 0"	7' - 0"	HG	3' - 0"			1 3/4"	FRL	GL-3	00-STP	HM	NONE	90			
1-305A	3' - 0"	7' - 0"	NV	3' - 0"			1 3/4"	FRL	GL-3	00-STP	HM	NONE			30	
1-305B	3' - 0"	7' - 0"	NV	3' - 0"			1 3/4"	FRL	GL-3	00-STP	HM	NONE			23	
1-306	3' - 6"	7' - 0"	MNV2S : NV	3' - 6"			1 3/4"	HM	GL-3	00-ABS	HM	NONE			24	
1-306T	3' - 0"	7' - 0"	F2S T	3' - 0"			1 3/4"	ABS	NONE	00-NS	HM	NONE			28	
1-311	3' - 6"	7' - 0"	MNV2S : NV	3' - 6"			1 3/4"	HM	GL-3	00-ABS	HM	NONE			13	
1-311T	3' - 0"	7' - 0"	F2S T	3' - 0"			1 3/4"	ABS	NONE	00-NS	HM	NONE			28	
1-312	3' - 6"	7' - 0"	MNV2S : NV	3' - 6"			1 3/4"	HM	GL-3	00-ABS	HM	NONE			13	
1-312T	3' - 0"	7' - 0"	F2S T	3' - 0"			1 3/4"	ABS	NONE	00-NS	HM	NONE			28	
1-313	3' - 6"	7' - 0"	MNV2S : NV	3' - 6"			1 3/4"	HM	GL-3	00-ABS	HM	NONE			13	
1-313T	3' - 0"	7' - 0"	F2S T	3' - 0"			1 3/4"	ABS	NONE	00-NS	HM	NONE			28	
1-314	3' - 6"	7' - 0"	MNV2S : NV	3' - 6"			1 3/4"	HM	GL-3	00-ABS	HM	NONE			13	
1-314T	3' - 0"	7' - 0"	F2S T	3' - 0"			1 3/4"	ABS	NONE	00-NS	HM	NONE			28	
1-331	4' - 0"	7' - 0"	MNV2S : NV	4' - 0"			1 3/4"	HM	GL-3	00-ABS	HM	NONE	90		24	
1-331T	3' - 8"	7' - 0"	F2S T	3' - 8"			1 3/4"	ABS	NONE	00-NS	HM	NONE			28	
1-332	4' - 0"	7' - 0"	F	4' - 0"			1 3/4"	HM	NONE	01-STP	HM	GL-6	45		14	
1-333	3' - 6"	7' - 0"	MNV2S : NV	3' - 6"			1 3/4"	HM	GL-3	00-ABS	HM	NONE			13	
1-333T	3' - 0"	7' - 0"	F2S T	3' - 0"			1 3/4"	ABS	NONE	00-NS	HM	NONE			28	
1-334	3' - 6"	7' - 0"	MNV2S : NV	3' - 6"			1 3/4"	HM	GL-3	00-ABS	HM	NONE			13	
1-334T	3' - 0"	7' - 0"	F2S T	3' - 0"			1 3/4"	ABS	NONE	00-NS	HM	NONE			28	
1-335	3' - 6"	7' - 0"	MNV2S : NV	3' - 6"			1 3/4"	HM	GL-3	00-ABS	HM	NONE			13	
1-335T	3' - 0"	7' - 0"	F2S T	3' - 0"			1 3/4"	ABS	NONE	00-NS	HM	NONE			28	
1-336	3' - 6"	7' - 0"	MNV2S : NV	3' - 6"			1 3/4"	HM	GL-3	00-ABS	HM	NONE			13	
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1-337	3' - 6"	7' - 0"	MNV2S : NV	3' - 6"			1 3/4"	HM	GL-3	00-ABS	HM	NONE			13	
1-337T	3' - 0"	7' - 0"	F2S T	3' - 0"			1 3/4"	ABS	NONE	00-NS	HM	NONE			28	
1-338	3' - 6"	7' - 0"	MNV2S : NV	3' - 6"			1 3/4"	HM	GL-3	00-ABS	HM	NONE			13	
1-338T	3' - 0"	7' - 0"	F2S T	3' - 0"			1 3/4"	ABS	NONE	00-NS	HM	NONE			28	
Exterior																
1-001	6' - 0"	8' - 0"	HG-3	3' - 0"	HG-3	3' - 0"	1 3/4"	AL	GL-4	00-STP	AL	NONE			1	Panic Hardware
1-110A	6' - 0"	7' - 10"	NV	3' - 0"	NV	3' - 0"	1 3/4"	HM	GL-3	00-STP	HM	NONE			6	Panic Hardware
1-190	3' - 6"	7' - 10"	F	3' - 6"			1 3/4"	FRL	NONE	00-STP	HM	NONE			7	
1-191	3' - 0"	7' - 10"	F	3' - 0"			1 3/4"	HM	NONE	00-STP	HM	NONE			2	
1-211B	3' - 6"	7' - 10"	HG-3	3' - 6"			1 3/4"	AL	GL-3	00-STP	AL	NONE			4	
1-310	3' - 0"	8' - 0"	HG-3	3' - 0"			1 3/4"	AL	GL-3	00-STP	AL	NONE			5	Panic Hardware
1-330	3' - 0"	8' - 0"	HG-3	3' - 0"			1 3/4"	AL	GL-3	00-STP	AL	NONE			5	Panic Hardware
LOWER PARAPET																
Exterior																
A2706	4' - 0"	4' - 0"	F	4' - 0"			1 3/4"	WD	NONE	00-STP	HM	NONE			8	GATE

BORROWED LIGHT SCHEDULE

OPENING NUMBER	TO ROOM NAME	FROM ROOM NAME	FRAME: TYPE	WIDTH	HEIGHT	GLAZING	MATERIAL	FIRE RATING	HEAD HEIGHT	COMMENTS
LEVEL 01										
1-003E	ENTRY CORRIDOR	SECURITY	B1	3' - 0"	4' - 0"	GL-4	HM	-	7' - 2"	
1-132E	PATIENT HALLWAY	CHARTING	B2	8' - 0"	4' - 0"	FRGL-1	HM	90 MIN	7' - 1 1/4"	
1-134E	CHARTING	MED ROOM	B1	3' - 0"	3' - 6"	GL-4	HM	-	7' - 2"	
1-211E	PATIENT HALLWAY	DINING ROOM	B3	7' - 0"	6' - 0"	GL-3	HM	-	7' - 2"	
1-216E	PATIENT HALLWAY	GROUP ROOM	B4	12' - 0"	6' - 0"	GL-3	HM	-	7' - 2"	
1-332E	CHARTING	SECLUSION ROOM	B1	3' - 0"	3' - 0"	FRGL-1	HM	45 MIN	6' - 0"	INTEGRAL BLIND

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NO. C27137
REN.: 10-31-2023
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DOORS & BORROWED LIGHTS SCHEDULE

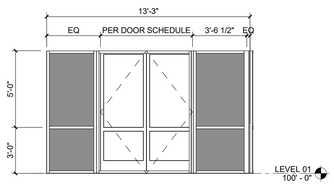
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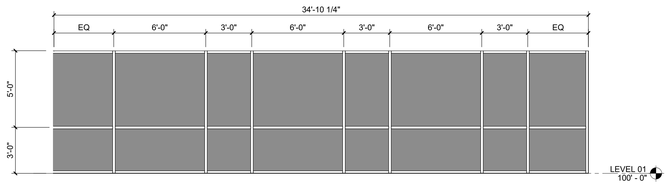
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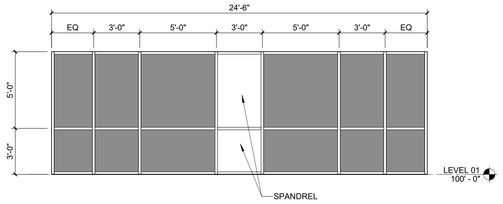
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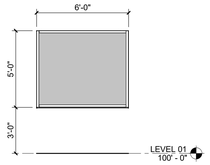
9 IW - 01
1/4" = 1'-0"



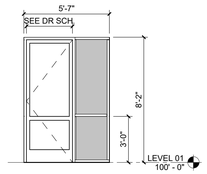
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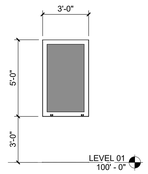
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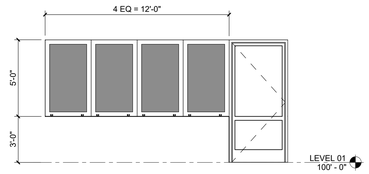
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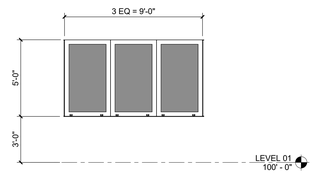
5 IW - 05
1/4" = 1'-0"



6 IW - 06
1/4" = 1'-0"



7 IW - 07
1/4" = 1'-0"



8 IW - 08
1/4" = 1'-0"

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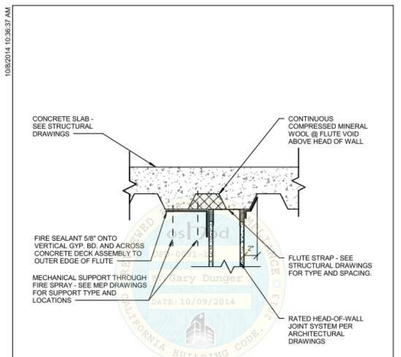
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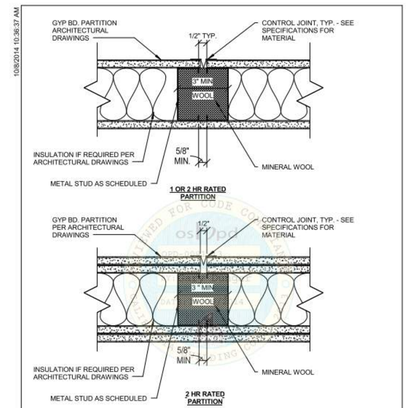
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Section Title: OSHPD FIRE RESISTIVE STANDARD DETAILS — OPD No:
Sheet Title: PENETRATION AT TOP OF WALL — FR3.07

10/8/2014 10:36:37 AM



NOTE:
1. CONTROL JOINT MATERIAL MAY TERMINATE 6" ABOVE CEILING LINE. CONTINUE JOINT WITH GYP. BD. TAPE - DO NOT FILL JOINT WITH TAPING COMPOUND.

2. THROUGH JOINTS ARE NOT PERMITTED. OFFSET CONTROL JOINT AT BOTH SIDES OF WALL A MINIMUM OF ONE STUD BAY

Section Title: OSHPD FIRE RESISTIVE STANDARD DETAILS — OPD No:
Sheet Title: GYP. BD. CONTROL JOINT @ RATED PARTITIONS - MINERAL WOOL — FR3.04

10/8/2014 10:36:37 AM

GENERAL NOTES

1. CONSTRUCTION, WORKMANSHIP AND MATERIAL SHALL CONFORM TO THE 2013 CALIFORNIA BUILDING CODE (CBC 2013).

2. THE CONTRACTOR SHALL NOTIFY OSHPD AND THE REGISTERED DESIGN PROFESSIONL (RDP) IN RESPONSIBLE CHARGE WHERE A CONFLICT OR DISCREPANCY OCCURS BETWEEN THE CONSTUCTION DRAWINGS AND ANY OTHER PORTION OF THE CONTRACT DOCUMENTS. FIELD CONDITIONS, OR WHERE ANY CONDITIONS ARISE NOT COVERED BY THESE DOCUMENTS WHEREIN WORK WILL NOT COMPY WITH CODE REQUIREMENTS.

3. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE HOSPITAL BUILDING IN ACCORDANCE WITH THE CALIFORNIA BUILDING STANDARD CODE, 2013 (CBSC 2013). SHOULD ANY CONDITION DEVELOP NOT COVERED BY THE APPROVED CONSTRUCTION DOCUMENTS WHEREIN THE WORK WILL NOT COMPLY WITH CBSC 2013, A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY OSHPD BEFORE PROCEEDING WITH THE WORK.

4. THE FIRE-RESISTANCE RATING OF BUILDING ELEMENTS, COMPONENT OR ASSEMBLIES SHALL BE DETERMINED IN ACCORDANCE WITH ASTM E 119 OR UL 263 OR IN ACCORDANCE WITH CBC SECTION 703.3.

5. WHERE FIRE RESISTIVE PARTITIONS, WALLS AND BARRIERS ARE CONSTRUCTED OF GYPSUM BOARD TO MEET THE FIRE AND SMOKE PROTECTION FEATURES IN ACCORDANCE WITH CBC CHAPTER 7, THEY SHALL MEET THE REQUIREMENTS OF THE FOLLOWING:

   i. THE DOCUMENTED REQUIREMENTS OF TESTING AND LISTING AGENCIES FOR MANUFACTURER'S PROPRIETARY MATERIALS AND CONSTRUCTION METHODS AS SHOWN IN THE TEST REPORT – E.G. UNDERWRITERS LABORATORIES, INTERTEK'S WARNOCK-HERSEY, ETC., OR

   ii. THE GENERIC FILE NUMBERS OF WALLS AND INTERIOR PARTITIONS DOCUMENTED IN THE GYPSUM ASSOCIATION'S PUBLICATION, 'FIRE RESISTANCE DESIGN MANUAL, OR

   iii. THE PRESCRIPTIVE CONSTRUCTION ITEMS LISTED IN CBC TABLE 721.1(2) FOR WALLS AND PARTITIONS.

6. WHERE STRUCTURAL MEMBERS ARE PROTECTED WITH SPRAYED FIRE-RESISTANT MATERIALS (SFRM) THEY SHALL MEET THE FIRE RESISTANCE RATING REQUIREMENTS OF SECTION 704 OF THE CBC AND THE FOLLOWING:

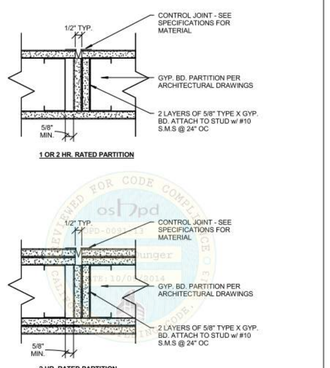
   i. THE DOCUMENTED REQUIREMENTS OF TESTING AND LISTING AGENCIES FOR MANUFACTURER'S PROPRIETARY MATERIALS AND CONSTRUCTION METHODS AS SHOWN IN THE TEST REPORT – E.G. UNDERWRITERS LABORATORIES, INTERTEK'S WARNOCK-HERSEY, ETC.

7. WHERE STRUCTURAL MEMBERS ARE PROTECTED WITH OTHER NON-COMBUSTIBLE INSULATING MATERIALS, THEY SHALL MEET THE FIRE RESISTANCE RATING REQUIREMENTS OF SECTION 704 OF THE CBC AND THE FOLLOWING:

   i. THE PRESCRIPTIVE CONSTRUCTION ITEMS LISTED IN CBC TABLE 721.1(1) FOR MINIMUM PROTECTION OF STRUCTURAL PARTS.

Section Title: OSHPD FIRE RESISTIVE STANDARD DETAILS — OPD No:
Sheet Title: GENERAL NOTES PAGE 1 OF 2 — FR0.00

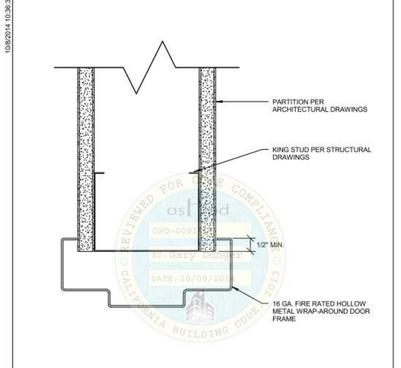
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NOTE:
CONTROL JOINT MATERIAL MAY TERMINATE 6" ABOVE CEILING LINE. CONTINUE JOINT WITH GYP. BD. TAPE - DO NOT FILL JOINT WITH TAPING COMPOUND.

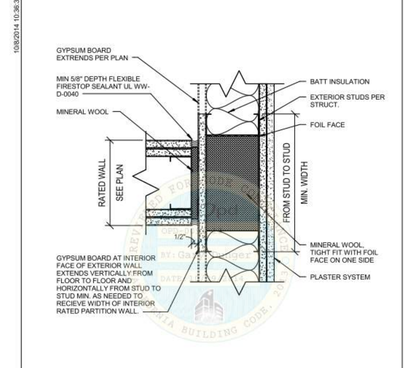
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Sheet Title: GYP. BD. CONTROL JOINT @ RATED PARTITIONS - GYP. BD. — FR3.05

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Section Title: OSHPD FIRE RESISTIVE STANDARD DETAILS — OPD No:
Sheet Title: HOLLOW METAL DOOR JAMB @ 1 HR-RATED WALLS — FR3.02

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Section Title: OSHPD FIRE RESISTIVE STANDARD DETAILS — OPD No:
Sheet Title: RATED INTERIOR WALL TERMINATION AT EXTERIOR PLASTER WALL — FR1.33

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8. STRUCTURAL DECKS SHALL BE CONSTRUCTED TO MEET THE REQUIREMENTS OF RATED HORIZONTAL ASSEMBLIES IN ACCORDANCE WITH CBC SECTION 711, AND SHALL MEET THE REQUIREMENTS OF THE FOLLOWING:

   i. THE DOCUMENTED REQUIREMENTS OF TESTING AND LISTING AGENCIES FOR MANUFACTURER'S PROPRIETARY MATERIALS AND CONSTRUCTION METHODS AS SHOWN IN THE TEST REPORT – E.G. UNDERWRITERS LABORATORIES, INTERTEK'S WARNOCK-HERSEY, ETC., OR
   ii. THE PRESCRIPTIVE CONSTRUCTION ITEMS LISTED IN CBC TABLE 721.1(3) FOR MINIMUM PROTECTION OF FLOOR AND ROOF SYSTEMS.

9. THE RDP IN RESPONSIBLE CHARGE SHALL VERIFY THAT THE USE OF THE OPD IN PROVIDING AN ACCEPTABLE FIRE RESISTIVE RATING FOR SPECIFIC CONDITIONS, WILL ALSO MEET ANY ACOUSTICAL CRITERIA THAT MAY OTHERWISE BE REQUIRED BY THE PROJECT DESIGN CRITERIA.

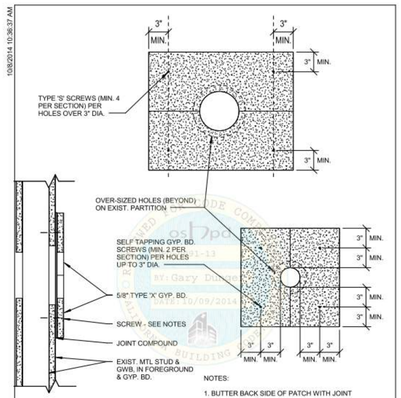
10. INDIVIDUAL DETAILS WITHIN THIS OPD TYPICALLY RELY UPON OTHER DETAILS FOR INFORMATION ESSENTIAL TO THEIR APPLICATION. OPD'S ARE TO BE USED IN CONJUNCTION WITH ALL RELATED, APPLICABLE DETAILS WITHIN THIS OPD PACKAGE INCLUDING THE GENERAL NOTES.

11. OPD PROVIDE OPTIONS FOR SOME COMPONENTS, SUCH AS FRAMING MEMBER SIZES, FASTENERS, ETC. THE RDP IN RESPONSIBLE CHARGE SHALL CLEARLY IDENTIFY ALL COMPONENTS SELECTED FOR USE IN THE PROJECT-SPECIFIC CONDITIONS.

12. OPD SHALL NOT BE USED AS THE BASIS FOR ENGINEERING JUDGMENTS SUBMITTED TO THE OFFICE PURSUANT TO CBC SECTION 703.3 AND OSHPD CODE APPLICATION NOTICE 2-7033.

Section Title: OSHPD FIRE RESISTIVE STANDARD DETAILS — OPD No:
Sheet Title: GENERAL NOTES PAGE 2 OF 2 — FR0.01

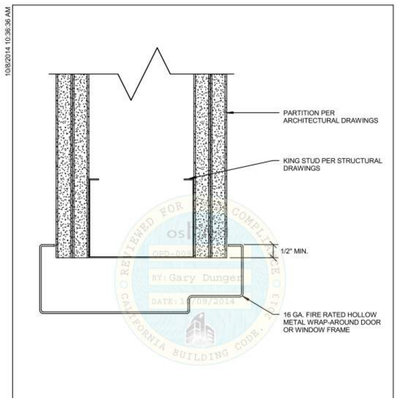
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NOTES:
1. BUTTER BACK SIDE OF PATCH WITH JOINT COMPOUND OR GYPSUM FIRE SEALANT
2. LEAVE ALL SCREWS EXPOSED

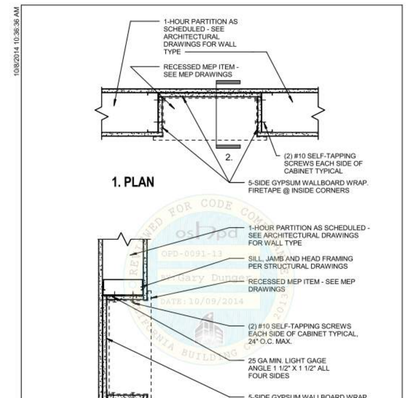
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Sheet Title: RATED WALL BLOW-OUT PATCH @ PENETRATION — FR3.06

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Section Title: OSHPD FIRE RESISTIVE STANDARD DETAILS — OPD No:
Sheet Title: HOLLOW METAL DOOR JAMB @ 2HR-RATED WALL — FR3.03

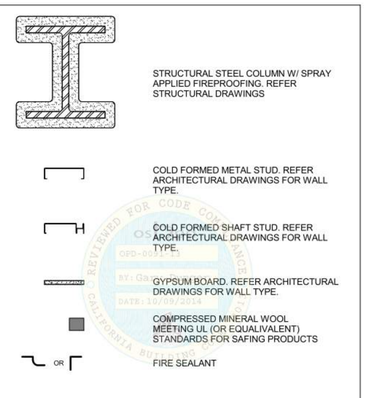
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NOTE:
ALL PENETRATIONS TO MEET UL LISTING FOR PENETRATIONS.

Section Title: OSHPD FIRE RESISTIVE STANDARD DETAILS — OPD No:
Sheet Title: 1 HR. "5-SIDED BOX" @ RECESSED M.E.P. CABINETS — FR3.01

10/8/2014 10:36:31 AM



Section Title: OSHPD FIRE RESISTIVE STANDARD DETAILS — OPD No:
Sheet Title: GRAPHICS LEGEND — FR0.02

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NO. C27137
REN.: 10-31-2023
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Drawing Title:

PARTITION DETAILS

Issue Date: 01/21/2022
Project No.: 006240.00 Checked by: Checker

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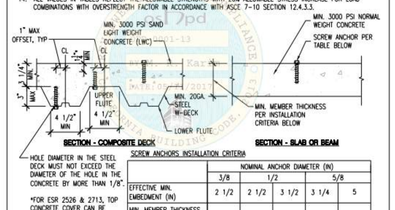
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PLOT DATE: May 05, 2017

SCREW ANCHOR GENERAL NOTES

1. ALLOWABLE STRENGTHS SHALL BE COMPARED TO ALLOWABLE STRESS DESIGN (ASD) LEVEL DEMAND IN ACCORDANCE WITH THE 2013 CBC SECTION 1605A.3.1.
2. ALLOWABLE STRENGTHS ARE FOR SINGLE ANCHORS WHICH MEET MIN. REQUIREMENTS PER TABLE & SECTION BELOW.
3. MINIMUM CONCRETE STRENGTH f'c=3000 PSI.
4. STEEL DECK TO BE MIN. 20 GA. W-DECK.
5. MINIMUM CONCRETE FILL DEPTH ABOVE THE TOP OF METAL DECK PER SECTION AND INSTALLATION CRITERIA BELOW.
6. SCREW ANCHORS SHALL NOT BE USED IN PRE-STRESSED CONCRETE UNLESS NON-DESTRUCTIVE TESTING METHODS ARE USED TO LOCATE STRAND & REINFORCING PRIOR TO ANCHOR INSTALLATION.
7. SCREW ANCHOR INSTALLATION SHALL NOT NICK OR DAMAGE EXISTING REINFORCEMENT. SHOULD THIS OCCUR THE RDP IN RESPONSIBLE CHARGE SHALL BE NOTIFIED IMMEDIATELY. SCREW ANCHORS SHALL BE INSTALLED 1" CLEAR OF EXISTING REINFORCEMENT.
8. SCREW ANCHORS SHALL BE INSTALLED PER CURRENT ICC-ES EVALUATION REPORT OR REPORT FROM OTHER TESTING AGENCIES ACCEPTABLE TO OSHPD.
9. TESTING OF SCREW ANCHORS SHALL BE PER 2013 CBC SECTION 1913A.7.
10. SCREW ANCHORS SHALL BE INSTALLED TO COMPLY W/ THE MINIMUM SLAB THICKNESS REQUIREMENTS ESTABLISHED BY THE ICC-ESR FOR THE SPECIFIED ANCHOR.
11. REFER TO NOTE 6C ON ST0.01 FOR ADDITIONAL SCREW ANCHOR REQUIREMENTS.
12. ALL VALUES IN TABLES ARE FOR CRACKED CONCRETE & INCLUDE REDUCTION BASED ON ACI 318-11 D3.3.4 REQUIREMENTS. THE ALLOWABLE STRENGTHS ARE BASED UPON THE LEAST OF THE ALLOWABLE STRENGTHS CALCULATED USING THE ICC ESRS 2526, 2713 & 3027 AND USING AN α FACTOR OF 1.4.
13. USE OF SCREW ANCHOR SHALL BE LIMITED TO DRY INTERIOR CONDITIONS. REUSE OF SCREW ANCHOR OR SCREW ANCHOR HOLE SHALL NOT BE PERMITTED.
14. ALL VALUES IN TABLES REFLECT THE ALLOWABLE STRENGTHS WITH 20% ALLOWABLE STRESS INCREASE FOR LOAD COMBINATIONS WITH OVERSTRENGTH FACTOR IN ACCORDANCE WITH ASCE 7-10 SECTION 12.4.3.3.



HOLE DIAMETER IN THE STEEL DECK MUST NOT EXCEED THE DIAMETER OF THE HOLE IN THE CONCRETE BY MORE THAN 1/8".

*FOR ESR 2526 & 2713, TOP CONCRETE COVER CAN BE REDUCED TO 3/4".

SCREW ANCHORS INSTALLATION CRITERIA

	NOMINAL ANCHOR DIAMETER (IN)				
	3/8	1/2		5/8	
EFFECTIVE MIN. EMBEDMENT (IN)	2 1/2	2 1/2	3 1/2	3 1/4	5
MIN. MEMBER THICKNESS NWC SLAB OR BEAM ONLY (IN)	4 1/4	5	6	6	7
MIN. ANCHOR SPACING (IN)	3	3 1/2	3	5	4
MIN. EDGE DISTANCE (IN)	3 3/4	3 3/4	5 1/4	4 7/8	7 1/2

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: SCREW ANCHOR GENERAL NOTES
OPD NO.: ST1.09

PLOT DATE: May 05, 2017

SHEET METAL SCREW (SMS) GENERAL NOTES

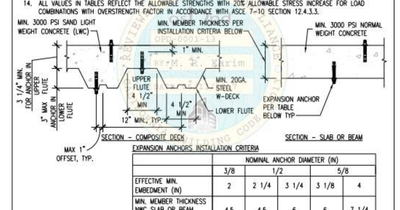
1. THE ALLOWABLE STRENGTHS ARE BASED UPON THE AISI S100-07/S2-10 AND ARE LIMITED BY ACTUAL TESTED STRENGTH OF THE SCREWS IN TENSION AND SHEAR.
2. THE ALLOWABLE STRENGTHS ARE BASED UPON THE LEAST OF THE AVERAGE TESTED TENSILE AND SHEAR STRENGTHS TABULATED FROM ICC ESR'S 1976, 2196, 1730, 1408, AND THE STEEL STUD MANUFACTURER'S ASSOCIATION (SSMA). FASTENER TYPES AND SIZES APPLY TO NON-PROPRIETARY FASTENER TYPES AND SIZES, AND DOES NOT ENDORSE A SPECIFIC MANUFACTURER. WHERE PROPRIETARY FASTENERS ARE SPECIFIED, NO EXCEPTIONS ARE TAKEN TO THE USE OF MANUFACTURER SPECIFIC VALUES THAT ARE BASED UPON THE AISI S100-07/S2-10, SECTION E4. ALL SCREW FASTENERS SHALL SATISFY ICC-ES AC118-ACCEPTANCE CRITERIA FOR SELF TAPPING SCREW FASTENERS.
3. TABLE 1 REPRESENTS ALLOWABLE TENSION AND SHEAR STRENGTHS FOR NON-PROPRIETARY SHEET METAL SCREWS FOR STEEL TO STEEL CONNECTIONS.
4. TABLE 2 AND 3 REPRESENT ALLOWABLE TENSION AND SHEAR STRENGTHS THAT INCORPORATE THE EFFECTS OF EITHER ONE OR TWO LAYERS OF 1/2" GYPSUM BOARD BETWEEN FASTENER HEAD AND CONNECTING STEEL MATERIAL.
5. IN ORDER TO USE THE VALUES IN TABLES 1, 2, AND 3, THE ATTACHMENTS SHALL BE DETAILED IN SUCH A WAY AS TO AVOID PRYING AND THE STUDS MUST BE STABILIZED WITH FULL-DEPTH BLOCKING WITH CONTINUOUS STRAPS ALONG THE FLANGES OR WITH BACKING BARS.
6. PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHOULD NOT BE LESS THAN 3 EXPOSED THREADS.
7. STEEL THICKNESSES JOINED ARE ASSUMED TO BE THE SAME. IF DISSIMILAR THICKNESSES ARE BEING CONNECTED, THE VALUE FOR THE THINNER PART JOINED SHALL BE USED.
8. THE MINIMUM SPACING BETWEEN CENTERS OF FASTENERS SHALL NOT BE LESS THAN 3 X FASTENER DIAMETER. THE MINIMUM EDGE DISTANCE FROM THE CENTER OF A FASTENER TO THE EDGE OF ANY PART SHALL NOT BE LESS THAN 1.5 X FASTENER DIAMETER. WHERE THE LOAD DISTANCE IS PARALLEL TO THE FORCE ON THE FASTENER, THE NOMINAL SHEAR STRENGTH SHALL BE LIMITED BY SECTION E4.3.2 OF THE AISI S100-07/S2-10.
9. GALVANIZED METAL STUDS, TRACK AND SHEET STEEL SHALL CONFORM TO ASTM A653-09a (OR OTHER EQUIVALENT ASTM LISTED MATERIALS IN THE AISI S100-07/S2-10, SECTION A2.1) WITH A MINIMUM YIELD STRENGTH OF 33 KSI FOR 43 MIL (18 GA) AND LIGHTER, AND MINIMUM YIELD STRENGTH OF 50 KSI FOR 54 MIL (16 GA) & HEAVIER.
10. WHERE VALUES ARE NOT GIVEN, SUCH COMBINATIONS OF SCREW SIZES & MATERIAL THICKNESS ARE NOT RECOMMENDED.
11. IF THE ATTACHMENT DETAILS RESULT IN PRYING WITH A MOMENT ARM NOT TO EXCEED 1 5/8", THE VALUES IN TABLE 4 MAY BE USED. IF THE ATTACHMENT DETAILS RESULT IN PRYING WITH A MOMENT ARM THAT EXCEEDS 1 5/8", THE REREGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE OF THE PROJECT SHALL DETERMINE THE ALLOWABLE VALUES AND SUBMIT SUBSTANTIATION FOR THEM TO OSHPD FOR REVIEW.
12. INTERACTION OF SHEAR AND TENSION SHALL BE BASED ON $T/T_{allow} + V/V_{allow} \leq 1.0$.
13. REFER TO NOTE 6A ON ST0.03 FOR ADDITIONAL SHEET METAL SCREW REQUIREMENTS.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: SHEET METAL SCREW GENERAL NOTES
OPD NO.: ST1.06

PLOT DATE: May 05, 2017

EXPANSION ANCHOR GENERAL NOTES

1. ALLOWABLE STRENGTHS SHALL BE COMPARED TO ALLOWABLE STRESS DESIGN (ASD) LEVEL DEMAND IN ACCORDANCE WITH THE 2013 CBC SECTION 1605A.3.1.
2. ALLOWABLE STRENGTHS ARE FOR SINGLE ANCHORS WHICH MEET MIN. REQUIREMENTS PER TABLE & SECTION BELOW.
3. MINIMUM CONCRETE STRENGTH f'c=3000 PSI.
4. EXPANSION ANCHORS INSTALLED THROUGH UPPER OR LOWER FLUTES OF METAL DECK SHALL MEET THE REQUIREMENTS OF THE INSTALLATION CRITERIA AND SECTION BELOW.
5. STEEL DECK TO BE MIN. 20 GA. W-DECK.
6. MINIMUM CONCRETE FILL DEPTH ABOVE THE TOP OF METAL DECK PER SECTION AND INSTALLATION CRITERIA BELOW.
7. EXPANSION ANCHORS SHALL NOT BE USED IN PRE-STRESSED CONCRETE UNLESS NON-DESTRUCTIVE TESTING METHODS ARE USED TO LOCATE STRAND & REINFORCING PRIOR TO ANCHOR INSTALLATION.
8. EXPANSION ANCHOR INSTALLATION SHALL NOT NICK OR DAMAGE EXISTING REINFORCEMENT. SHOULD THIS OCCUR THE RDP IN RESPONSIBLE CHARGE SHALL BE NOTIFIED IMMEDIATELY. EXPANSION ANCHORS SHALL BE INSTALLED 1" CLEAR OF EXISTING REINFORCEMENT.
9. EXPANSION ANCHORS SHALL BE INSTALLED PER CURRENT ICC-ES EVALUATION REPORT OR REPORT FROM OTHER TESTING AGENCY ACCEPTABLE TO OSHPD.
10. TESTING OF EXPANSION ANCHORS SHALL BE PER 2013 CBC SECTION 1913A.7.
11. EXPANSION ANCHORS SHALL BE INSTALLED TO COMPLY W/ THE MINIMUM SLAB THICKNESS REQUIREMENTS ESTABLISHED BY THE ICC-ESR FOR THE SPECIFIED ANCHOR.
12. REFER TO NOTE 6C ON ST0.01 FOR ADDITIONAL EXPANSION ANCHOR REQUIREMENTS.
13. ALL VALUES IN TABLES ARE FOR CRACKED CONCRETE & INCLUDE REDUCTION BASED ON ACI 318-11 D3.3.4 REQUIREMENTS. THE ALLOWABLE STRENGTHS ARE BASED UPON THE LEAST OF THE ALLOWABLE STRENGTHS CALCULATED USING THE ICC ESRS 1917, 2427, 3502, & 3037 AND USING AN α FACTOR OF 1.4.
14. ALL VALUES IN TABLES REFLECT THE ALLOWABLE STRENGTHS WITH 20% ALLOWABLE STRESS INCREASE FOR LOAD COMBINATIONS WITH OVERSTRENGTH FACTOR IN ACCORDANCE WITH ASCE 7-10 SECTION 12.4.3.3.

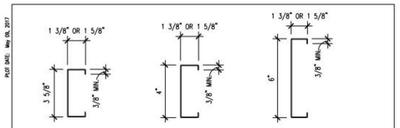


EXPANSION ANCHORS INSTALLATION CRITERIA

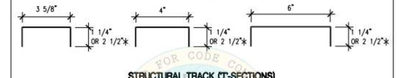
	NOMINAL ANCHOR DIAMETER (IN)				
	3/8	1/2		5/8	
EFFECTIVE MIN. EMBEDMENT (IN)	2	2 1/4	3 1/4	3 1/8	4
MIN. MEMBER THICKNESS NWC SLAB OR BEAM ONLY (IN)	4.5	4.5	6	6	7 1/4
MIN. ANCHOR SPACING (3 x EMBED) (IN)	6 3/4	6 3/4	9 3/4	9 3/8	12
MIN. EDGE DISTANCE (IN)	6	7	7 1/2	6 1/2	8 3/4

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: EXPANSION ANCHOR GENERAL NOTES
OPD NO.: ST1.03

PLOT DATE: May 05, 2017



STRUCTURAL STUD (S"-SECTIONS)



STRUCTURAL TRACK (T"-SECTIONS)

* - DEEP LEG TRACK (WHERE OCCURS AS NOTED IN DETAILS)

DESIGNATION THICKNESS (MILS)	REFERENCE ONLY GAUGE NO.
18	25
27	22
33	20
43	18
54	16
68	14
97	12
118	10

NOTES:
1. SEE WALL STUD FRAMING SECTIONS FOR THICKNESS OF STUDS & TRACKS.
2. F_y = 50KSI FOR 54 MIL (16GA) & THICKER SECTIONS, AND F_y = 33KSI FOR SECTIONS UP TO & INCLUDING 43 MIL
3. SIZES AND THICKNESS ARE CONSIDERED MINIMUMS.
4. STRUCTURAL STUDS MAY BE PUNCHED UNLESS NOTED OTHERWISE. STRUCTURAL TRACK SHALL BE UNPUNCHED UNLESS NOTED OTHERWISE.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: METAL STUD PROFILES
OPD NO.: ST1.00

PLOT DATE: May 05, 2017

GENERAL NOTES

1. CONSTRUCTION, WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE 2013 CALIFORNIA BUILDING STANDARDS CODE (2013 CBSC).
2. THE CONTRACTOR SHALL NOTIFY OSHPD AND THE REGISTERED DESIGN PROFESSIONAL (RDP) IN RESPONSIBLE CHARGE WHERE A CONFLICT OR DISCREPANCY OCCURS BETWEEN THE OSHPD PRE-APPROVED DETAILS (OPD) AND ANY OTHER PORTION OF THE CONSTRUCTION DOCUMENTS, FIELD CONDITIONS OR WHERE ANY CONDITIONS ARISE NOT COVERED BY THESE DOCUMENTS WHEREIN WORK WILL NOT COMPLY WITH THE REQUIREMENTS OF THE 2013 CBSC.
3. THE INTENT OF THE OPD IS TO CONSTRUCT THE HOSPITAL BUILDING IN ACCORDANCE WITH THE 2013 CBSC. SHOULD ANY CONDITION DEVELOP NOT COVERED BY THE APPROVED PLANS AND SPECIFICATIONS WHEREIN THE WORK WILL NOT COMPLY WITH THE 2013 CBSC,A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY OSHPD BEFORE PROCEEDING WITH THE WORK.
4. GALVANIZED METAL STUDS, TRACKS AND SHEET STEEL SHALL CONFORM TO ASTM A635-09a MATERIAL, OR OTHER EQUIVALENT ASTM LISTED MATERIALS IN SECTION A2.1 OF THE AISI S100-07/S2-10: NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, WITH SUPPLEMENT 2, DATED 2010, WITH A MINIMUM YIELD STRENGTH OF 33 KSI FOR 43 MIL (18 GAGE) AND LIGHTER AND MINIMUM YIELD STRENGTH OF 50 KSI FOR HEAVIER GAGES.
5. METAL STUDS AND TRACKS SHALL BE OF SIZE, THICKNESS AND SECTION PROPERTIES SHOWN ON TABLES I-1, I-2 AND I-3 OF THE AISI MANUAL, COLD FORMED STEEL DESIGN, 2008 EDITION. THE RDP IN RESPONSIBLE CHARGE SHALL OBTAIN OSHPD APPROVAL FOR ANY SUBSTITUTIONS.
6. THESE OPD REFER TO FASTENER TYPE AND SIZE BUT DO NOT SPECIFY OR ENDORSE A SPECIFIC MANUFACTURER. THE RDP IN RESPONSIBLE CHARGE SHALL SELECT A MANUFACTURER, AND SELECTED FASTENER CAPACITIES SHALL MATCH OR EXCEED THE ALLOWABLE STRENGTHS LISTED HEREIN. THE FOLLOWING REQUIREMENTS SHALL ALSO BE MET:
   A. SHEET METAL SCREWS SHALL COMPLY WITH ASTM C 1513-10, ASME B18.6.4-98 (R2005) AND ICC-ES AC 118 AND ALLOWABLE STRENGTH SHALL BE BASED ON INFORMATION PROVIDED IN ST1.07 AND ST1.08. PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHALL NOT BE LESS THAN THREE EXPOSED THREADS.
   B. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3 USING E60XX SERIES ELECTRODES. ALL FIELD WELDING SHALL HAVE SPECIAL INSPECTION IN ACCORDANCE WITH 2013 CBC 1705A.2.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: GENERAL NOTES - PAGE 1 OF 3
OPD NO.: ST0.00

PLOT DATE: May 05, 2017

SCREW ANCHOR ALLOWABLE STRENGTHS

TABLE 1
SCREW ANCHORS INSTALLED IN THE UNDERSIDE OF STRUCTURAL SAND-LIGHT WEIGHT CONCRETE (f'c MIN=3000 PSI) OVER METAL DECK

ANCHOR DIA. (IN)	EMBED (IN)	SHEAR (LB)	TENSION (LB)
3/8	2 1/2	465	364
1/2	2 1/2	496	343

TABLE 2
SCREW ANCHORS INSTALLED IN TO THE TOP OF STRUCTURAL SAND-LIGHTWEIGHT CONCRETE (f'c MIN=3000 PSI) OVER METAL DECK

ANCHOR DIA. (IN)	EMBED (IN)	SHEAR (LB)	TENSION (LB)
3/8	2 1/2	571	283
1/2	2 1/2	628	371

TABLE 3
SCREW ANCHORS INSTALLED IN NORMAL WEIGHT CONCRETE (f'c MIN=3000 PSI)

ANCHOR DIA. (IN)	EMBED (IN)	SHEAR (LB)	TENSION (LB)
3/8	2 1/2	951	497
1/2	2 1/2	1047	618
1/2	3 1/2	2013	1153
5/8	3 1/4	1756	1412
5/8	5	3463	1637

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: SCREW ANCHOR DESIGN ALLOWABLE STRENGTHS
OPD NO.: ST1.10

PLOT DATE: May 05, 2017

SHEET METAL SCREW (SMS) ALLOWABLE STRENGTHS

TABLE 1
SHEET METAL SCREW ALLOWABLE STRENGTHS FOR STEEL TO STEEL CONNECTIONS.

F_y (KSI)	MIL (STEEL GA)	FASTENER SIZE NO. 14 0.250 IN SHEAR (LB)	NO. 14 TENSION (LB)	NO. 12 0.216 IN SHEAR (LB)	NO. 12 TENSION (LB)	NO. 10 0.190 IN SHEAR (LB)	NO. 10 TENSION (LB)	NO. 8 0.164 IN SHEAR (LB)	NO. 8 TENSION (LB)	NO. 6 0.138 IN SHEAR (LB)	NO. 6 TENSION (LB)
50	97 (12)	704	275	525	205						
	68 (14)	704	275	525	205	405	159				
	54 (16)	613	261	525	205	405	159	303	118		
33	43 (18)	302	144	280	124	263	109	244	94	165	79
	33 (20)					177	84	164	72	151	61

NOTES:
1. SEE GENERAL NOTES ON ST1.06 FOR MORE INFORMATION.
2. WHERE ONE OR TWO LAYERS OF GYP BOARD OCCURS BETWEEN STEEL SURFACES, THE ALLOWABLE VALUES OF TABLE 2 & 3 SHALL BE USED.
3. ALLOWABLE STRENGTH VALUES DO NOT ACCOUNT FOR EFFECTS FROM PRYING. THE RDP IN RESPONSIBLE CHARGE OF THE PROJECT SHALL PROVIDE ADEQUATE BLOCKING/RESTRAINT TO PREVENT PRYING ACTION. WHERE PRYING OCCURS, THE VALUES AND CONSTRAINTS OF TABLE 4 SHALL BE USED.

TABLE 2 – NON-PRYING CONDITION
SHEET METAL SCREW ALLOWABLE STRENGTHS FOR STEEL TO STEEL CONNECTIONS WITH ONE LAYER OF 5/8" GYP BOARD BETWEEN STEEL SURFACES.

F_y (KSI)	MIL (STEEL GA)	FASTENER SIZE NO. 14 0.250 IN SHEAR (LB)	NO. 14 TENSION (LB)	NO. 12 0.216 IN SHEAR (LB)	NO. 12 TENSION (LB)	NO. 10 0.190 IN SHEAR (LB)	NO. 10 TENSION (LB)	NO. 8 0.164 IN SHEAR (LB)	NO. 8 TENSION (LB)	NO. 6 0.138 IN SHEAR (LB)	NO. 6 TENSION (LB)
50	97 (12)	226	275	180	205						
	68 (14)	226	275	180	205	140	159				
	54 (16)	226	261	180	205	140	159	120	118		
33	43 (18)	226	144	180	124	140	109	120	94	60	79
	33 (20)					100	84	80	72	60	61

NOTES:
1. SEE GENERAL NOTES ON ST1.06 FOR MORE INFORMATION.
2. ALLOWABLE STRENGTH VALUES DO NOT ACCOUNT FOR EFFECTS FROM PRYING. RDP IN RESPONSIBLE CHARGE TO PROVIDE ADEQUATE BLOCKING/RESTRAINT TO PREVENT PRYING ACTION. WHERE PRYING OCCURS, THE VALUES AND CONSTRAINTS OF TABLE 4 SHALL BE USED.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: SHEET METAL SCREW ALLOWABLE STRENGTHS
OPD NO.: ST1.07

PLOT DATE: May 05, 2017

EXPANSION ANCHOR ALLOWABLE STRENGTHS

TABLE 1
EXPANSION ANCHORS INSTALLED IN TO THE UNDERSIDE OF STRUCTURAL SAND-LIGHTWEIGHT CONCRETE (f'c MIN=3000 PSI) OVER METAL DECK

ANCHOR DIA. (IN)	EMBED (IN)	SHEAR (LB)	TENSION (LB)
3/8	2	747	604
1/2	2 1/4	1029	610
1/2	3 1/4	1173	1086
5/8	3 1/4	1353	836
5/8	4 1/4	2477	1941

TABLE 2
EXPANSION ANCHORS INSTALLED IN TO THE TOP OF STRUCTURAL SAND-LIGHTWEIGHT CONCRETE (f'c MIN=3000 PSI) OVER METAL DECK

ANCHOR DIA. (IN)	EMBED (IN)	SHEAR (LB)	TENSION (LB)
3/8	2	806	624
1/2	2 1/4	948	660

TABLE 3
EXPANSION ANCHORS INSTALLED IN NORMAL WEIGHT CONCRETE (f'c MIN=3000 PSI)

ANCHOR DIA. (IN)	EMBED (IN)	SHEAR (LB)	TENSION (LB)
3/8	2	1020	961
1/2	2 1/4	1580	1101
1/2	3 1/4	2591	2003
5/8	3 1/4	2579	2150
5/8	4 1/4	3772	3113

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: EXPANSION ANCHOR ALLOWABLE STRENGTHS
OPD NO.: ST1.04

PLOT DATE: May 05, 2017

POWER ACTUATED FASTENER (PAF) GENERAL NOTES (INSTALLED IN CONCRETE FILLED METAL DECK OR CONC SLAB)

1. POWER ACTUATED FASTENER (PAF), POWDER DRIVEN FASTENERS (PDF), POWER DRIVEN PINS (PDP), SHOT PINS ALL REPRESENT THE SAME FASTENER AND WILL HEREAFTER BE REFERRED TO AS POWER ACTUATED FASTENERS (PAF).
2. ALLOWABLE STRENGTHS SHALL BE COMPARED TO ALLOWABLE STRESS DESIGN (ASD) LEVEL DEMAND IN ACCORDANCE WITH THE 2013 CBC SECTION 1605A.3.1.
3. ALLOWABLE STRENGTHS ARE FOR A SINGLE FASTENER WHICH MEET REQUIREMENTS PER SECTION BELOW AND TABLES ON ST1.12. THE ALLOWABLE STRENGTHS ARE BASED UPON THE LEAST OF THE ALLOWABLE STRENGTHS LISTED IN ICC ESRS 2024, 2138, & 2269.
4. MINIMUM CONCRETE STRENGTH f'c = 2000 PSI FOR NORMAL WEIGHT CONCRETE AND f'c = 3000 PSI FOR ALL LIGHT WEIGHT CONCRETE UNLESS NOTED OTHERWISE.
5. POWER ACTUATED FASTENER INSTALLED THROUGH LOW FLUTES OF THE METAL DECK SHALL MEET THE REQUIREMENTS OF THE INSTALLATION CRITERIA AND SECTION BELOW.
6. MINIMUM EDGE DISTANCE OF 1 1/8" FROM THE EDGE OF METAL DECK WEB AND 4" FROM THE EDGE OF THE DECK.
7. STEEL DECK TO BE A MINIMUM OF 20 GA. W-DECK.
8. CONCRETE FILL DEPTH ABOVE THE TOP OF METAL DECK MUST BE A MINIMUM OF 2½" AT NORMAL WEIGHT OR LIGHT WEIGHT CONCRETE COMPOSITE METAL DECK.
9. PAF SHALL NOT BE USED TO RESIST SEISMIC SHEAR FORCES EXCEPT AT INTERIOR NON-LOAD BEARING, NON-SHEAR WALL PARTITION WALLS (AS PERMITTED BY 2013 CBC 1908A.1.1) AND COMPONENTS EXEMPT FROM CONSTRUCTION DOCUMENT REVIEW BY 2013 CBC SECTION 1616A1.18 (NOT PERMITTED TO TAKE SEISMIC SHEAR BY ICC-ES AC70 FOR ANY OTHER CONDITIONS). PAF SHALL NOT BE USED TO CARRY SEISMIC TENSION LOADS (EXCEPT FOR VERTICAL SEISMIC LOAD PRODUCED BY SELF WEIGHT OF THE COMPONENTS) OR IN CRACKED CONCRETE UNLESS APPROVED FOR SUCH LOADING BY OSHPD.
10. PAF SHALL NOT BE USED IN PRE-STRESSED CONCRETE UNLESS NON-DESTRUCTIVE TESTING METHODS ARE USED TO LOCATE STRAND AND REINFORCEMENT PRIOR TO FASTENER INSTALLATION.
11. PAF INSTALLATION SHALL NOT NICK OR DAMAGE EXISTING CONCRETE REINFORCEMENT. SHOULD THIS OCCUR THE RDP IN RESPONSIBLE CHARGE SHALL BE NOTIFIED IMMEDIATELY. PAF SHALL BE INSTALLED 1" CLEAR OF EXISTING REINFORCEMENT. THIS MAY REQUIRE NON-DESTRUCTIVE TESTING.
12. PAF SHALL BE INSTALLED PER CURRENT ICC-ES EVALUATION REPORTS (OR REPORTS FROM OTHER TESTING AGENCIES ACCEPTABLE TO OSHPD).
13. TESTING OF PAF SHALL BE PER 2013 CBC SECTION 1913A.7. MINIMUM CONCRETE SUBSTRATE THICKNESS IS THREE TIMES THE PAF PENETRATION INTO THE CONCRETE SUBSTRATE.
14. TESTING IS NOT REQUIRED OF PAF USED TO ATTACH TRACKS OF INTERIOR NON-SHEAR WALL PARTITIONS FOR SHEAR ONLY WHERE THERE ARE AT LEAST THREE FASTENERS.
15. TOTAL ALLOWABLE LOADS IN TENSION, SHEAR OR TENSION SHEAR COMBINATIONS SHALL NOT EXCEED 90 LBS AS PERMITTED BY EXCEPTION TO THE ASCE 7-10 SECTION 13.4.5.
16. REFER TO NOTE 6G ON ST0.01 FOR ADDITIONAL PAF REQUIREMENTS.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: POWER ACTUATED FASTENER (PAF) GENERAL NOTES (INSTALLED IN CONCRETE FILLED METAL DECK OR CONC SLAB)
OPD NO.: ST1.01

PLOT DATE: May 05, 2017

C. POST-INSTALLED ANCHORS (E.G. EXPANSION ANCHORS, SCREW ANCHORS, AND POWER-ACTUATED FASTENERS) SHALL HAVE SPECIAL INSPECTION AND TESTING IN ACCORDANCE WITH THE 2013 CBC SECTIONS 1705A.3 & 1913A.7. FOR QUALIFICATION, DESIGN AND USE OF POST-INSTALLED ANCHORS IN CONCRETE, SEE THE 2013 CBC SECTIONS 1616A.1.19 AND 1908A.1.1 LISTING OF CURRENT ICC-ES EVALUATION REPORTS (OR REPORTS FROM OTHER TESTING AGENCIES ACCEPTABLE TO OSHPD) SHALL BE REQUIRED FOR FASTENERS USED.

D. POWER-ACTUATED FASTENERS (PAF), POWDER DRIVEN FASTENERS (PDF), POWER DRIVEN PINS (PDP) AND SHOT PINS ALL REPRESENT THE SAME DEVICE AND WILL HEREAFTER BE REFERRED TO AS POWER ACTUATED FASTENERS (PAF). PAF SHALL SATISFY THE CURRENT ACTO-ACCEPTANCE CRITERIA FOR FASTENERS POWER-DRIVEN INTO CONCRETE, STEEL AND MASONRY ELEMENTS AND THE 2013 CBC SECTION 1908A.1.1. LISTING OF CURRENT ICC-ES EVALUATION REPORTS (OR REPORTS FROM OTHER TESTING AGENCIES ACCEPTABLE TO OSHPD) SHALL BE REQUIRED FOR FASTENERS USED.

E. FOR PAF INSTALLED IN STEEL THE FASTENER PENETRATION SHALL HAVE THE ENTIRE POINTED END OF THE FASTENER DRIVEN THROUGH THE STEEL MEMBER, EXCEPT AS NOTED IN CURRENT REPORTS FROM TESTING AGENCIES ACCEPTABLE TO OSHPD.

7. DESIGN CRITERIA

A. CODE: 2013 CALIFORNIA BUILDING STANDARDS CODE (2013 CBC), ASCE7-10 WITH SUPPLEMENT #1, AISI S100-07/S2-10, AISI S213-07 WALL STUD DESIGN AND AISI S212-07 FOR HEADER DESIGN.

B. LOAD COMBINATIONS: ALLOWABLE STRESS DESIGN IN ACCORDANCE WITH 2013 CBC SECTION 1605A.3.1.

C. SYSTEM WEIGHTS:

PARTITION WALLS = 7.5 PSF (INCLUDES METAL STUDS, TWO LAYERS OF GYP BOARD, TWO LAYERS ON ONE SIDE OR ONE LAYER ON BOTH SIDES, AND 3 PSF FOR INSULATION AND FINISHES)

SOFFITS = 10 PSF (INCLUDES METAL STUDS, TWO LAYERS OF GYP BOARD, TWO LAYERS ON ONE SIDE OR ONE LAYER ON BOTH SIDES, AND 3 5 PSF FOR INSULATION, FINISHES AND MINOR FIXTURES)

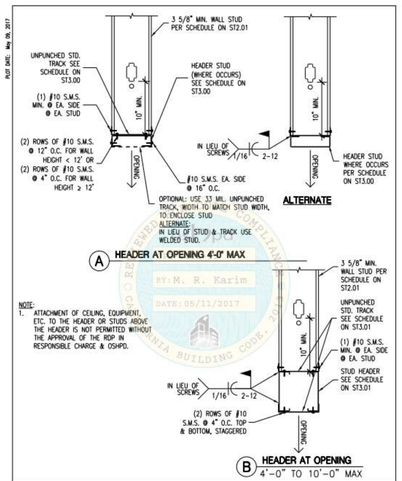
DOORS AND WINDOWS = 10 PSF

CABINETS = 38 PCF (INCLUDES CONTENTS AT 33 PCF PER 2013 CBC TABLE 1607A.1 AND CABINET SELF WEIGHT OF 5 PCF)

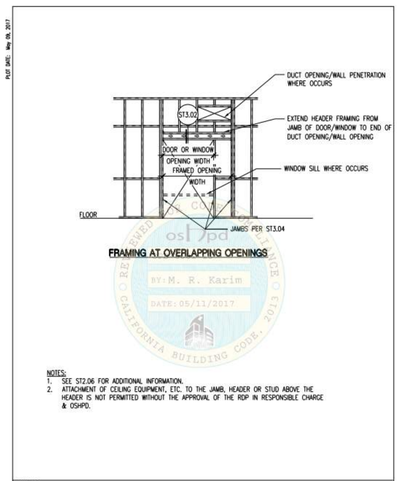
EQUIPMENT = 38 PCF (EQUIPMENT LOAD IS ASSUMED TO BE THE SAME AS CABINET LOAD)

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: GENERAL NOTES - PAGE 2

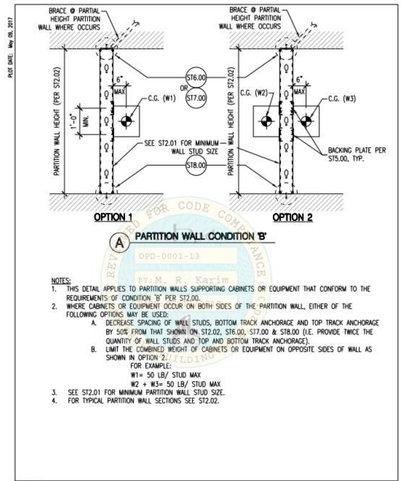
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SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: HEADER SECTION
DPD NO.: ST3.02



SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: PARTITION WALL ELEVATION - FRAMING AT OVERLAPPING OPENINGS
DPD NO.: ST2.07



SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: CABINET OR EQUIPMENT ANCHORAGE TO PARTITION WALL, CONDITION 'B'
DPD NO.: ST2.03

TYPICAL PARTITION WALL CONDITIONS

CONDITION 'A' – PARTITION WALL WITHOUT ATTACHMENTS. SEE DETAIL ST2.02

CONDITION 'B' – PARTITION WALLS SUPPORTING CABINETS OR EQUIPMENT ON ONE SIDE OR BOTH SIDES OF THE WALL DISTRIBUTING UP TO 50 LB TOTAL VERTICAL LOAD PER STUD (37 PLF). REFER TO GENERAL NOTE 7C ON ST0.01. CENTER OF GRAVITY LESS THAN 6" FROM THE FACE OF THE STUD. SEE DETAIL ST2.03.

CONDITION 'C' – PARTITION WALL SUPPORTING OVERHEAD AND/OR BASE CABINETS OR EQUIPMENT ON ONE SIDE OR BOTH SIDES OF THE WALL, DISTRIBUTING UP TO 152 LB TOTAL VERTICAL LOAD PER STUD (114 PLF). REFER TO GENERAL NOTE 7C ON ST0.01. CENTER OF GRAVITY WITHIN 6" OF FACE OF THE STUD. SEE DETAIL ST2.04.

CONDITION 'D' – PARTITION WALL SUPPORTING FULL HEIGHT CABINETS OR EQUIPMENT ON ONE SIDE OR BOTH SIDES OF THE WALL, DISTRIBUTING UP TO 380 LB TOTAL VERTICAL LOAD PER STUD (285 PLF). REFER TO GENERAL NOTE 7C ON ST0.01. CENTER OF GRAVITY WITHIN 6" OF FACE OF THE STUD. SEE DETAIL ST2.04.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: TYPICAL PARTITION WALL CONDITIONS
DPD NO.: ST2.00

POWER ACTUATED FASTENER (PAF) ALLOWABLE STRENGTHS (INSTALLED IN CONCRETE FILLED B-DECK)

TABLE 1
POWER ACTUATED FASTENER INSTALLED TO THE UNDERSIDE OF NORMAL WEIGHT OR SAND-LIGHTWEIGHT CONCRETE THROUGH B-DECK (f'c MIN = 3000 PSI)

NOMINAL SHANK DIAMETER (IN)	MIN. EMBED (IN)	MIN. SPACING (IN)	MIN. EDGE DISTANCE (IN)	TENSION (LB) SEE NOTE 15	SHEAR (LB) (SEE NOTE 15)
0.157 MIN	1"	4"	4"	90	90

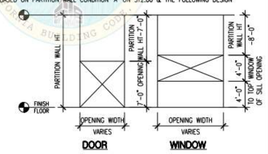
SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: POWER ACTUATED FASTENER (PAF) ALLOWABLE STRENGTHS (INSTALLED IN CONC FILLED METAL B DECK
DPD NO.: ST1.12

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: SILL SECTION
DPD NO.: ST3.03

PARTITION WALL OPENING FRAMING SCHEDULE

OPENING WIDTH	ℓ_{ps}	PARTITION WALL HT UP TO:	CONN. DETAIL	JAMBS (# OF STUD)-MIL 3 5/8" MIL	4" MIL	6" MIL	HEADER FRAMING	FIGURE	MIL	SILL (SEE NOTE 3) FRAMING	FIGURE	MIL
≤ 4'-0"	0.25–0.99	9'-0"	ST3.05–A OR ST3.05–B	(1)–33	(1)–33	(1)–33	(1)TRACK & (1) STUD		SAME MIL AS WALL	(1)TRACK		33 MIN.
		12'-0"		(2)–33	(1)–54 OR (2)–33	(1)–54 OR (2)–33			54			
		16'-0"		(2)–33	(2)–33	(2)–33						
	1.00–1.25	9'-0"	ST3.05–A OR ST3.05–B	(1)–33	(1)–33	(1)–33	(1)TRACK & (1) STUD		SAME MIL AS WALL	(1)TRACK		33 MIN.
		12'-0"		(2)–33	(2)–33	(1)–54 OR (2)–33			54			
		16'-0"		(2)–43	(2)–33	(2)–33						
	1.26–1.45	9'-0"	ST3.05–A OR ST3.05–B	(1)–33	(1)–33	(1)–33	(1)TRACK & (1) STUD		SAME MIL AS WALL	(1)TRACK		33 MIN.
		12'-0"		(2)–33	(2)–33	(1)–54 OR (2)–33			54			
		16'-0"		(2)–43	(2)–43	(2)–33						
	1.45–1.95	9'-0"	ST3.05–A OR ST3.05–B	(1)–43 OR (2)–33	(1)–43 OR (2)–33	(1)–33	(1)TRACK & (1) STUD		SAME MIL AS WALL	(1)TRACK		33 MIN.
		12'-0"		(2)–33	(2)–33	(1)–54 OR (2)–33			54			
		16'-0"		(2)–54	(2)–54	(2)–43						
				SEE DETAIL: ST3.04			SEE DETAIL: ST3.02			SEE DETAIL: ST3.03		

NOTES:
1. SEE GENERAL NOTES ON ST0.00, ST0.01, & ST0.02 FOR LIGHT GAUGE STEEL REQUIREMENTS AND DETAIL ST1.00 FOR SECTION PROFILES.
2. STUDS SHALL MATCH WALL SIZES, I.E. 362S FOR 3 5/8" WALL, 400S FOR 4" WALL & 600S FOR 6" WALL.
3. SCHEDULE FOR SILL BASED ON 4'-0" MAX HT. FOR SILLS TALLER THAN 4'-0" USE HEADER FRAMING.
4. JAMB, HEADER & SILL DESIGN BASED ON PARTITION WALL CONDITION 'A' ON ST2.00 & THE FOLLOWING DESIGN ASSUMPTIONS:



SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: PARTITION WALL OPENING FRAMING SCHEDULE (4'-0" MAX OPENING WIDTH)
DPD NO.: ST3.00

NOTES:
1. THIS DETAIL APPLIES TO PARTITION WALLS SUPPORTING CABINETS OR EQUIPMENT THAT CONFORM TO THE REQUIREMENTS OF CONDITION 'C' OR 'D' PER ST2.00.
2. THIS DETAIL APPLIES TO PARTITION WALLS SUPPORTING OVERHEAD AND/OR BASE CABINET OR EQUIPMENT ON ONE SIDE OF THE WALL. WHERE CABINETS OR EQUIPMENT OCCUR ON BOTH SIDES OF THE WALL, THE FOLLOWING OPTION MAY BE USED:
A. DECREASE SPACING OF WALL STUDS, BOTTOM TRACK ANCHORAGE AND TOP TRACK ANCHORAGE BY 50% FROM THAT SHOWN ON ST2.02, ST6.00, ST7.00 & ST8.00. (I.E. PROVIDE TWICE THE QUANTITY OF WALL STUDS AND TOP AND BOTTOM TRACK ANCHORAGE).
3. SEE ST2.01 FOR MINIMUM WALL STUD SIZE.
4. FOR TYPICAL PARTITION SECTIONS SEE ST2.02.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: CABINET OR EQUIPMENT ANCHORAGE TO PARTITION WALL, CONDITIONS 'C' & 'D'
DPD NO.: ST2.04

PARTITION WALL SCHEDULES

SCHEDULE 1: MINIMUM PARTITION WALL STUD SIZE (PARTITION CONDITION 'A')

ℓ_{ps}	WALL HEIGHT 9 FT	12 FT	16 FT
0.25–0.99	362S137–33	362S137–43	400S137–43	400S137–43	600S137–33
1.00–1.25	362S137–33	362S137–43	400S137–43	400S137–43	600S137–33
1.26–1.45	362S137–33	362S137–43	400S137–43	400S137–43	600S137–33
1.46–1.95	362S137–33	362S137–43	400S137–43	400S137–43	600S137–33

SCHEDULE 2: MINIMUM PARTITION WALL STUD SIZE (PARTITION CONDITION 'B')

ℓ_{ps}	WALL HEIGHT 9 FT	12 FT	16 FT
0.25–0.99	362S137–33	362S137–43	400S137–43	362S137–54	400S137–43	600S137–43
1.00–1.25	362S137–33	362S137–43	400S137–43	NA	400S137–54	600S137–43
1.26–1.45	362S137–33	362S137–43	400S137–43	NA	400S137–54	600S137–43
1.46–1.95	362S137–33	362S137–54	400S137–54	NA	400S137–54	600S137–43

SCHEDULE 3: MINIMUM PARTITION WALL STUD SIZE (PARTITION CONDITION 'C')

ℓ_{ps}	WALL HEIGHT 9 FT	12 FT	16 FT
0.25–0.99	362S137–43	400S137–54	362S137–54	400S137–43	600S137–43	400S137–54
1.00–1.25	362S137–43	400S137–54	362S137–54	400S137–43	600S137–43	400S137–54
1.26–1.45	362S137–43	400S137–54	NA	400S137–54	600S137–54	600S137–54
1.46–1.95	362S137–54	400S137–54	NA	NA	600S137–54	600S137–54

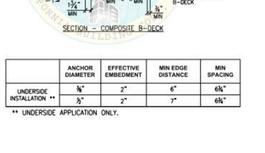
SCHEDULE 4: MINIMUM PARTITION WALL STUD SIZE (PARTITION CONDITION 'D')

ℓ_{ps}	WALL HEIGHT 9 FT	12 FT	16 FT
0.25–0.99	362S137–33	400S137–43	600S137–43	362S137–43	400S137–43	600S137–43
1.00–1.25	362S137–43	400S137–43	600S137–43	NA	400S137–54	600S137–43
1.26–1.45	362S137–43	400S137–43	600S137–43	NA	400S137–54	600S137–43
1.46–1.95	NA	400S137–54	600S137–54	NA	600S137–54	600S137–54

NOTES:
1. PARTITION WALL STUDS ARE SPACED @ 16" O.C. TYPICAL UNLESS NOTED OTHERWISE.
2. SEE ST2.06 FOR PARTITION WALL ELEVATION & ADDITIONAL INFORMATION.
3. SEE ST2.00 FOR DEFINITION OF PARTITION WALL CONDITIONS.
4. SEE ST1.00 FOR METAL STUD PROFILES.
5. 362S137–33 IS A 3 5/8" WIDE SSMA STUD WITH 1 3/8" WIDE FLANGE THAT IS 33 MIL THICK.
6. STUDS SHOWN IN THE TABLES ABOVE CAN BE REPLACED BY EQUIVALENT STUDS WITH EQUAL OR HIGHER AREA (A), SECTION MODULUS (S_x, S_y) AND MOMENT OF INERTIA (I_x, I_y) PROVIDED MATERIALS CONFORM TO THE SAME ASTM STANDARD WITH EQUAL OR HIGHER YIELD STRENGTH (f_y) AND ULTIMATE STRENGTH (f_u) WHEN APPROVED.
7. PARTITION WALLS TO HAVE LATERAL BRACING @ 48" O.C. PER ST4.00 OR ST4.01, FOR FULL HT OF PARTITION WALL. LATERAL BRACING IS NOT REQUIRED WHERE GYP BOARD IS INSTALLED ON BOTH SIDES OF PARTITION WALL.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: PARTITION WALL SCHEDULES
DPD NO.: ST2.01

EXPANSION ANCHOR GENERAL NOTES
1. ALLOWABLE STRENGTHS SHALL BE COMPARED TO ALLOWABLE STRESS DESIGN (ASD) LEVEL DEMAND IN ACCORDANCE WITH THE 2013 CBC SECTION 1605A.3.1.
2. ALLOWABLE STRENGTHS SHOWN IN TABLES ON ST1.14 ARE FOR SINGLE ANCHORS WHICH MEET MIN. REQUIREMENTS PER TABLE AND SECTION BELOW.
3. MINIMUM CONCRETE STRENGTH f'c = 3000 PSI.
4. EXPANSION ANCHORS INSTALLED THROUGH LOWER FLUTES OF METAL DECK SHALL MEET THE REQUIREMENTS OF THE INSTALLATION CRITERIA AND SECTION BELOW.
5. STEEL DECK TO BE MIN 20 GA. B-DECK.
6. MINIMUM CONCRETE FILL DEPTH ABOVE THE TOP OF THE METAL DECK PER SECTION AND INSTALLATION CRITERIA BELOW.
7. EXPANSION ANCHORS SHALL NOT BE USED IN PRE-STRESSED CONCRETE UNLESS NON-DESTRUCTIVE TESTING METHODS ARE USED TO LOCATE STRAND & REINFORCING PRIOR TO ANCHOR INSTALLATION.
8. EXPANSION ANCHOR INSTALLATION SHALL NOT NICK OR DAMAGE EXISTING REINFORCEMENT. SHOULD THIS OCCUR, THE RDP IN RESPONSIBLE CHARGE SHALL BE NOTIFIED IMMEDIATELY. EXPANSION ANCHORS SHALL BE INSTALLED 1" CLEAR OF EXISTING REINFORCEMENT.
9. EXPANSION ANCHORS SHALL BE INSTALLED PER CURRENT ICC-ES EVALUATION REPORT OR REPORT FROM OTHER TESTING AGENCY ACCEPTABLE TO OSHPD.
10. TESTING OF EXPANSION ANCHORS SHALL BE PER 2013 CBC SECTION 1913A.7.
11. REFER TO NOTE 6c ON ST0.01 FOR ADDITIONAL EXPANSION ANCHOR REQUIREMENTS.
12. ALL VALUES IN TABLES ARE FOR CRACKED CONCRETE & INCLUDE REDUCTION BASED ON ACI 318–11 D.3.3.4.3 REQUIREMENTS. THE ALLOWABLE STRENGTHS ARE BASED UPON THE LEAST OF THE ALLOWABLE STRENGTHS CALCULATED USING THE ICC ESRS 1917 AND 2502 AND USING AN = FACTOR OF 1.4.
13. ALL VALUES IN TABLE REFLECT ALLOWABLE STRENGTHS WITH 20% ALLOWABLE STRESS INCREASE FOR LOAD COMBINATIONS WITH OVERSTRENGTH FACTOR IN ACCORDANCE WITH ASCE 7–10 SECTION 12.4.3.3.



	ANCHOR DIAMETER	EFFECTIVE EMBEDMENT	MIN EDGE DISTANCE	MIN SPACING
UNDERSIDE INSTALLATION **	⅜"	2"	6"	6⅜"
	½"	2"	7"	6⅜"

** UNDERSIDE APPLICATION ONLY.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: EXPANSION ANCHOR GENERAL NOTES INSTALLED IN CONCRETE FILLED METAL B DECK
DPD NO.: ST1.13

NOTES:
1. WHERE (2) STUDS ARE INDICATED ON PLANS OR ELEVATIONS, USE DOUBLE STUD DETAIL A OR B ABOVE. WHERE (3) STUDS ARE INDICATED ON PLANS OR ELEVATIONS, USE TRIPLE STUD DETAIL C OR D ABOVE.
2. FOR STUD THICKNESSES, SEE SCHEDULE ON ST3.00 & ST3.01.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: JAMB STUD DETAILS
DPD NO.: ST3.04

PARTITION WALL OPENING FRAMING SCHEDULE

OPENING WIDTH	ℓ_{ps}	PARTITION WALL HT UP TO:	CONN. DETAIL	JAMBS (# OF STUD)-MIL 3 5/8" MIL	4" MIL	6" MIL	HEADER FRAMING	FIGURE	MIL	SILL (SEE NOTE 3) FRAMING	FIGURE	MIL
≤ 4'-0" TO ≤ 10'-0"	0.25–0.99	9'-0"	ST3.06–C OR ST3.06–D OR ST3.06–E	(1)–54 OR (2)–33	(1)–43 OR (2)–33	(1)–43 OR (2)–33	(1)TRACK & (1) STUD		54	(1)TRACK &(1)STUD		43 MIN.
		12'-0"		(2)–33	(2)–33	(2)–33	(2)TRACK & (2) STUD					
		16'-0"		(2)–54	(2)–54	(2)–43						
	1.00–1.25	9'-0"	ST3.06–C OR ST3.06–D OR ST3.06–E	(1)–54 OR (2)–33	(1)–54 OR (2)–33	(1)–43 OR (2)–33	(2)TRACK & (2) STUD		54	(2)TRACK &(1)STUD		43 MIN.
		12'-0"		(2)–43 OR (3)–33	(2)–43 OR (3)–33	(2)–33						
		16'-0"		(3)–54	(3)–54	(2)–43						
	1.26–1.45	9'-0"	ST3.06–C OR ST3.06–D OR ST3.06–E	(1)–54 OR (2)–33	(1)–54 OR (2)–33	(1)–43 OR (2)–33	(2)TRACK & (2) STUD		54	(1)TRACK &(1)STUD		43 MIN.
		12'-0"		(2)–43 OR (3)–33	(2)–43 OR (3)–33	(2)–33						
		16'-0"		(3)–54	(3)–54	(2)–43						
	1.45–1.95	9'-0"	ST3.06–C OR ST3.06–D OR ST3.06–E	(2)–33	(2)–33	(1)–54 OR (2)–33	(2)TRACK & (2) STUD		54	(1)TRACK &(1)STUD		43 MIN.
		12'-0"		(2)–43 OR (3)–33	(2)–43 OR (3)–33	(2)–33						
		16'-0"		(3)–54	(3)–54	(2)–43						
				SEE DETAIL: ST3.04			SEE DETAIL: ST3.02			SEE DETAIL: ST3.03		

NOTES:
1. SEE GENERAL NOTES ON ST0.00, ST0.01, & ST0.02 FOR LIGHT GAUGE STEEL REQUIREMENTS AND DETAIL ST1.00 FOR SECTION PROFILES.
2. STUDS SHALL MATCH WALL SIZES, I.E. 362S FOR 3 5/8" WALL, 400S FOR 4" WALL & 600S FOR 6" WALL.
3. SCHEDULE FOR SILL BASED ON 4'-0" MAX HT. FOR SILLS TALLER THAN 4'-0" USE HEADER FRAMING.
4. SEE ST3.00 FOR DESIGN ASSUMPTIONS.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: WALL OPENING FRAMING SCHEDULE (OPENING WIDTH 4'-0" TO 10'-0" MAX)
DPD NO.: ST3.01

NOTES:
1. ATTACHMENT OF CEILING, EQUIPMENT, ETC. TO THE JAMB, HEADER OR STUD ABOVE THE HEADER IS NOT PERMITTED WITHOUT THE APPROVAL OF THE RDP IN RESPONSIBLE CHARGE & OSHPD.
2. LATERAL BRACING PER ST4.00 & ST4.01 @ 4'-0" O.C. MAX. LATERAL BRACING NOT REQUIRED WHERE CYP. BOARD OCCURS ON BOTH SIDES OF PARTITION WALL.
3. SEE ST2.07 FOR CONDITION AT OVERLAPPING OPENINGS.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: PARTITION WALL ELEVATION - FULL HEIGHT AND PARTIAL HEIGHT PARTITION WALLS
DPD NO.: ST2.06

NOTES:
1. PARTITION WALL SCHEDULES PER ST2.01.
2. SEE ST2.00 FOR DEFINITION OF PARTITION WALL CONDITIONS.
3. SEE ST6.11 FOR TOP & BOTTOM CONNECTION DEMANDS.
4. LATERAL BRACING IS NOT REQUIRED WHERE GYP BOARD IS INSTALLED ON BOTH SIDES OF PARTITION WALL.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: TYPICAL PARTITION WALL SECTIONS
DPD NO.: ST2.02

EXPANSION ANCHOR ALLOWABLE STRENGTHS INTO B-DECK

TABLE 1
EXPANSION ANCHORS INSTALLED INTO THE UNDERSIDE OF NORMAL WEIGHT CONCRETE THROUGH B-DECK (f'c MIN = 3000 PSI)

ANCHOR DIAMETER (IN)	EMBED (IN)	SHEAR (LB)	TENSION (LB)
⅜"	2	997	522
½"	2	1440	600

** UNDERSIDE APPLICATION ONLY. SEE NOTE ON ST1.13.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: EXPANSION ANCHOR ALLOWABLE STRENGTHS INSTALLED IN CONCRETE FILLED METAL B DECK
DPD NO.: ST1.14

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MATTHEW S. GREINER
NO. C27137
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CONSULTANT SEAL

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PLOT DATE: May 05, 2017

TOP TRACK CONNECTION TO LWC FILLED METAL DECK & NWC SLAB (MIN 3000 PSI) FASTENER SPACING SCHEDULES

PARTITION WALL CONDITION 'A'

WALL HEIGHT	PAF SPACING (INCHES O.C.) PER ST7.02 DETAIL A		
	9 FT	12 FT	16 FT
0.25–0.99	30	24	18
1.00–1.25	24	18	12
1.26–1.45	24	18	12
1.46–1.95	18	12	6

FOR DETAIL B THROUGH D (STRAP OR Z–CLIP) DOUBLE THE SPACING INDICATED UP TO 48" OC.

PARTITION WALL CONDITION 'B'

WALL HEIGHT	PAF SPACING (INCHES O.C.) PER ST7.02 DETAIL A		
	9 FT	12 FT	16 FT
0.25–0.99	18	18	12
1.00–1.25	12	12	6
1.26–1.45	12	12	6
1.46–1.95	6	6	6

FOR DETAIL B THROUGH D (STRAP OR Z–CLIP) DOUBLE THE SPACING INDICATED UP TO 48" OC.

PARTITION WALL CONDITION 'C'

WALL HEIGHT	PAF SPACING (INCHES O.C.) PER ST7.02 DETAIL A		
	9 FT	12 FT	16 FT
0.25–0.99	6	6	6
1.00–1.25	6	6	6
1.26–1.45	6	6	6
1.46–1.95	6	6	6

FOR DETAIL B THROUGH D (STRAP OR Z–CLIP) DOUBLE THE SPACING INDICATED UP TO 48" OC.

PARTITION WALL CONDITION 'D'

WALL HEIGHT	PAF SPACING (INCHES O.C.) PER ST7.02 DETAIL A		
	9 FT	12 FT	16 FT
0.25–0.99	6	6	6
1.00–1.25	6	6	6
1.26–1.45	6	6	6
1.46–1.95	6	6	6

FOR DETAIL B THROUGH D (STRAP OR Z–CLIP) DOUBLE THE SPACING INDICATED UP TO 48" OC.

NOTES:
1. SEE ST7.02 & ST7.03 FOR DETAILS A, B, C, & D.
2. VALUES IN TABLES ABOVE REPRESENT MAXIMUM SPACING. DECREASE SPACING AS REQ'D TO COORDINATE W/ METAL DECK FLUTE SPACING. WHERE PAF SPACING IS LESS THAN 12" OC, OK TO PROVIDE MULTIPLE PAF AT LOW FLUTE AS REQUIRED. MAINTAIN EDGE DISTANCE AND SPACING REQUIREMENTS PER ST1.01 & ST1.02.
3. SPACING LISTED INCLUDES Ω, PER ASCE 7–10 W/ SUPPLMENT #1 TABLE 13.5–1.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: TOP TRACK CONNECTION TO LWC FILLED METAL DECK & NWC SLAB FASTENER SPACING SCHEDULES
DPD NO.: ST7.04

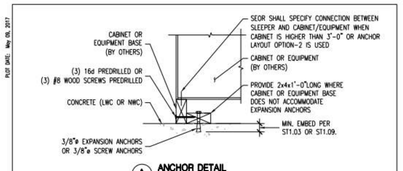
PLOT DATE: May 05, 2017

STRUCTURE ABOVE TOP TRACK	FULL HEIGHT PARTITION WALL-TOP TRACK TO STRUCTURE CONNECTION
LIGHT WEIGHT (MIN. 3000 PSI) CONCRETE FILLED METAL DECK	ST7.02 & ST7.03
NORMAL WEIGHT (MIN. 3000 PSI) CONCRETE SLAB OR BEAM SOFFIT	ST7.02 & ST7.03
CONCRETE PAN JOIST OR WAFFLE SLAB SYSTEM	ST7.03, ST7.05 & ST7.06
METAL ROOF DECK WITHOUT STRUCTURAL CONCRETE FILL	ST7.07
STEEL BEAM	ST7.08
WOOD FRAMING	ST7.09

NOTES:
1. SEE ST7.01 THROUGH ST7.10 FOR TYPICAL DETAILS OF FULL HEIGHT PARTITION WALLS WITH A TOP TRACK CONNECTION DIRECTLY TO THE STRUCTURE ABOVE.
2. SEE ST6.00 FOR PARTIAL HEIGHT PARTITION WALLS.
3. FOR TOP & BOTTOM CONNECTION DEMAND SCHEDULE SEE ST6.11.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: TOP CONNECTION CONDITIONS - FULL HEIGHT PARTITION WALL
DPD NO.: ST7.00

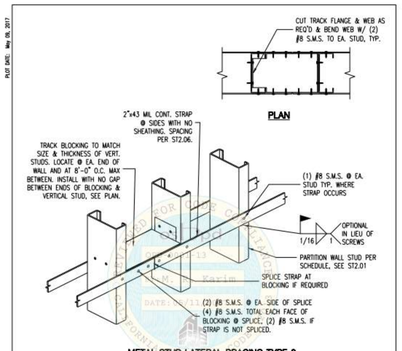
PLOT DATE: May 05, 2017



NOTE:
1. SEE ST1.03 & ST1.04 FOR EXPANSION ANCHOR REQUIREMENTS, AND SEE ST1.09 & ST1.10 FOR SCREW ANCHOR REQUIREMENTS.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: BASE CABINET OR EQUIPMENT ANCHORAGE
DPD NO.: ST5.02

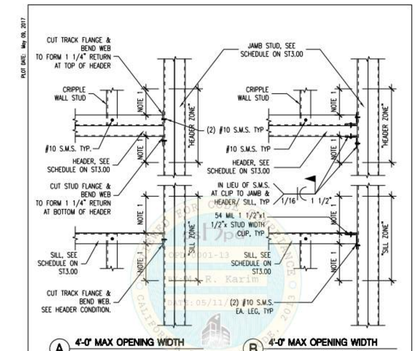
PLOT DATE: May 05, 2017



NOTES:
1. LATERAL BRACING IS NOT REQUIRED WHERE CYP. BOARD IS INSTALLED ON BOTH SIDES OF PARTITION WALL.
2. NOTCHING OF BLOCKING OR STRAP IS NOT PERMITTED FOR ANY CONDITION.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: METAL STUD LATERAL BRACING TYPE 2
DPD NO.: ST4.01

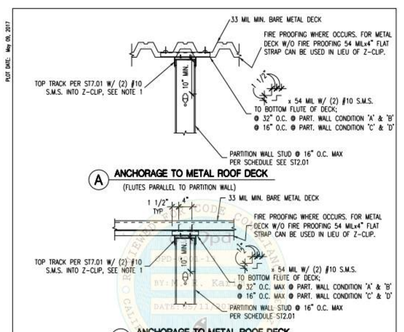
PLOT DATE: May 05, 2017



1. NO STUD PUNCHES OR HOLES SHALL OCCUR WITHIN 10" ABOVE OR BELOW THE HEADER OR SILL OR INSIDE THE HEADER OR SILL ZONE.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: HEADER & SILL CONNECTION TO JAMB STUDS (4'-0" MAX OPENING WIDTH)
DPD NO.: ST3.05

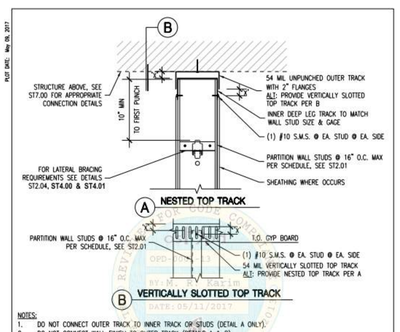
PLOT DATE: May 05, 2017



NOTES:
1. SEE TOP CONNECTION DEMAND SCHEDULE ON ST6.11.
2. RDP IN RESPONSIBLE CHARGE TO EVALUATE STEEL DECK FOR CAPACITY.
3. SEE ST2.00 FOR TYPICAL PARTITION WALL CONDITIONS.
4. CONNECTION SPACING SHOWN ABOVE REPRESENTS MAXIMUM SPACING. DECREASE SPACING AS REQ'D TO COORDINATE W/ METAL DECK FLUTE SPACING.
5. DETAIL APPLIES TO ALL PARTITION WALL CONDITIONS & ALL S_{DS} CATEGORIES.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: TOP TRACK CONNECTION TO METAL ROOF DECK WITHOUT CONCRETE FILL - ALL PARTITION WALL CONDITIONS
DPD NO.: ST7.07

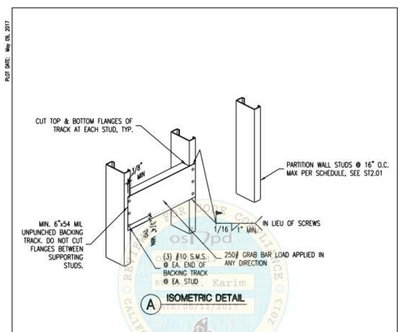
PLOT DATE: May 05, 2017



NOTES:
1. DO NOT CONNECT OUTER TRACK TO INNER TRACK OR STUDS (DETAIL A ONLY).
2. DO NOT CONNECT WALL FINISH TO OUTER TRACK (DETAILS A & B).
3. GAP "X" – BY RDP IN RESPONSIBLE CHARGE, 1/2" MIN. TO 3/4" MAX.
4. RDP IN RESPONSIBLE CHARGE TO VERIFY "UL" RATING FOR HEAD OF WALL ASSEMBLY. APPROVED FIRE RESISTANT ASSEMBLY REQUIRED.
5. DETAIL B TO BE USED WHERE ONLY VERTICAL SLIP REQUIRED. WHERE HORIZONTAL, IN–PLANE SLIP IS REQUIRED, USE DETAIL A. DO NOT USE DETAIL B. DO NOT USE DETAIL B FOR ST7.08.
6. SEE TOP CONNECTION DEMAND SCHEDULE ON ST6.11.
7. LATERAL BRACING ONLY REQUIRED IF CYP. BOARD IS NOT FULL HEIGHT ON BOTH SIDES OF PARTITION WALL SEE ST2.06, ST4.00 & ST4.01.
8. DETAIL APPLIES TO ALL PARTITION WALL CONDITIONS & ALL S_{DS} CATEGORIES.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: TYPICAL TOP TRACK ANCHORAGE - ALL PARTITION WALL CONDITIONS
DPD NO.: ST7.01

PLOT DATE: May 05, 2017

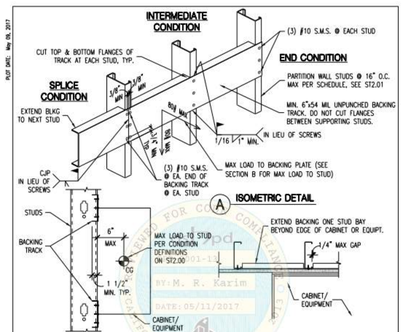


BACKING PLATE DETAIL FOR GRAB BAR

NOTES:
1. NOTCHING OR CUTTING OF BACKING PLATE IS NOT PERMITTED EXCEPT AS SHOWN.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: BACKING PLATE DETAIL FOR GRAB BAR
DPD NO.: ST5.03

PLOT DATE: May 05, 2017

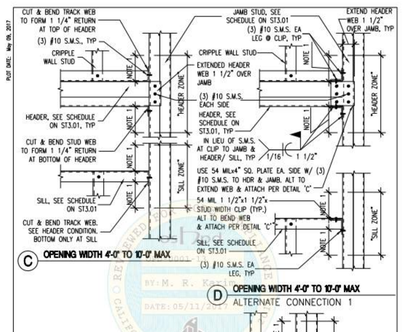


BACKING PLATE DETAIL TYPE 1

NOTES:
1. BACKING, CONNECTION TO STUD, AND STUDS FOR CABINETS OR EQUIPMENT EXCEEDING THIS LIMIT SHALL BE DESIGNED AND DETAILED BY RDP IN RESPONSIBLE CHARGE.
2. ST5.01 MAY BE USED FOR ATTACHMENT OF CABINETS OR EQUIPMENT DISTRIBUTING LESS THAN 20# PER STUD (CENTER OF GRAVITY LESS THAN 6" FROM FACE OF STUD).
3. NOTCHING OR CUTTING OF BACKING PLATE IS NOT PERMITTED EXCEPT AS SHOWN.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: BACKING PLATE DETAIL TYPE 1
DPD NO.: ST5.00

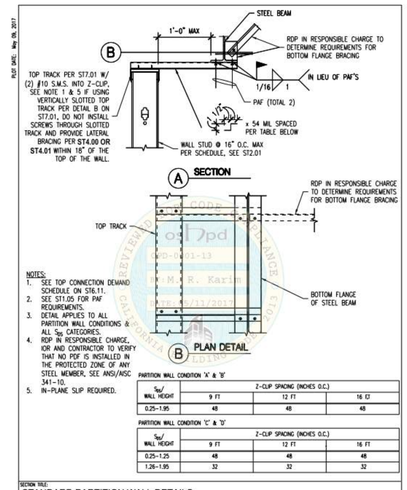
PLOT DATE: May 05, 2017



1. NO STUD PUNCHES OR HOLES SHALL OCCUR WITHIN 10" ABOVE OR BELOW THE HEADER OR SILL OR INSIDE THE HEADER OR SILL ZONE.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: HEADER & SILL CONNECTION TO JAMB STUDS (OPENING WIDTH 4'-0" TO 10'-0" MAX)
DPD NO.: ST3.06

PLOT DATE: May 05, 2017



NOTES:
1. SEE TOP CONNECTION DEMAND SCHEDULE ON ST6.11.
2. SEE ST1.05 FOR PAF REQUIREMENTS.
3. DETAIL APPLIES TO ALL PARTITION WALL CONDITIONS & ALL S_{DS} CATEGORIES.
4. RDP IN RESPONSIBLE CHARGE, IOR AND CONTRACTOR TO VERIFY THAT NO PDF IS INSTALLED IN THE PROTECTED ZONE OF ANY STEEL MEMBER, SEE ANSI/ASC 341–10.
5. IN–PLANE SLIP REQUIRED.

PARTITION WALL CONDITION 'A' & 'B'

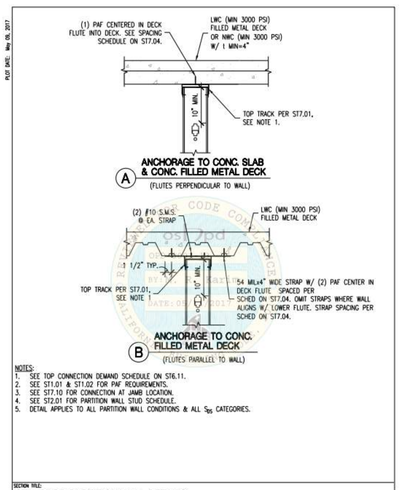
WALL HEIGHT	2–CLIP SPACING (INCHES O.C.)		
	9 FT	12 FT	16 FT
0.25–1.95	48	48	48

PARTITION WALL CONDITION 'C' & 'D'

WALL HEIGHT	2–CLIP SPACING (INCHES O.C.)		
	9 FT	12 FT	16 FT
0.25–1.25	48	48	48
1.26–1.95	32	32	32

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: TOP TRACK CONNECTION TO STEEL BEAM - ALL PARTITION WALL CONDITIONS
DPD NO.: ST7.08

PLOT DATE: May 05, 2017



NOTES:
1. SEE TOP CONNECTION DEMAND SCHEDULE ON ST6.11.
2. SEE ST1.01 & ST1.02 FOR PAF REQUIREMENTS.
3. SEE ST7.10 FOR CONNECTION AT JAMB LOCATION.
4. SEE ST2.01 FOR PARTITION WALL STUD SCHEDULE.
5. DETAIL APPLIES TO ALL PARTITION WALL CONDITIONS & ALL S_{DS} CATEGORIES.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: TOP TRACK CONNECTION TO LWC FILLED METAL DECK & NWC SLAB - ALL PARTITION WALL CONDITIONS
DPD NO.: ST7.02

PLOT DATE: May 05, 2017

TOP AND BOTTOM CONNECTION DEMAND SCHEDULES

TOP AND BOTTOM CONNECTION DEMANDS (PARTITION WALL CONDITION 'A')

S_{DS}	SEISMIC REACTION AT THE TOP & BOTTOM CONNECTION FOR DIFFERENT WALL HEIGHT (LBS/FT)					
	9 FT		12 FT		16 FT	
0.25–0.99	17		23		31	
1.00–1.25	22		29		38	
1.26–1.45	26		34		45	
1.46–1.95	34		45		60	

TOP AND BOTTOM CONNECTION DEMANDS (PARTITION WALL CONDITION 'B')

S_{DS}	SEISMIC REACTION AT THE TOP & BOTTOM CONNECTION FOR DIFFERENT WALL HEIGHT (LBS/FT)					
	9 FT		12 FT		16 FT	
	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	TOP
0.25–0.99	25	29	33	32	43	38
1.00–1.25	32	36	42	40	54	47
1.26–1.45	37	42	50	47	64	54
1.46–1.95	50	56	67	61	86	72

TOP AND BOTTOM CONNECTION DEMANDS (PARTITION WALL CONDITION 'C')

S_{DS}	SEISMIC REACTION AT THE TOP & BOTTOM CONNECTION FOR DIFFERENT WALL HEIGHT (LBS/FT)					
	9 FT		12 FT		16 FT	
	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	TOP
0.25–0.99	127	83	149	72	169	68
1.00–1.25	161	102	188	89	213	84
1.26–1.45	188	118	220	104	249	97
1.46–1.95	254	156	296	137	334	129

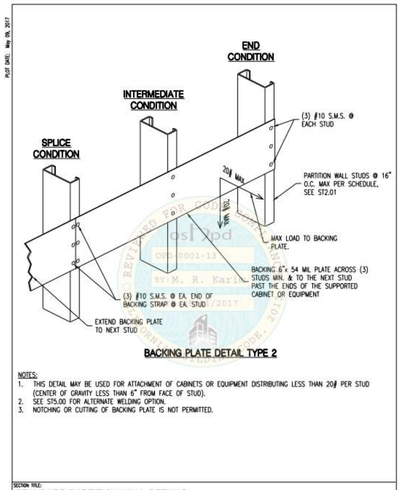
TOP AND BOTTOM CONNECTION DEMANDS (PARTITION WALL CONDITION 'D')

S_{DS}	SEISMIC REACTION AT THE TOP & BOTTOM CONNECTION FOR DIFFERENT WALL HEIGHT (LBS/FT)					
	9 FT		12 FT		16 FT	
	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	TOP
0.25–0.99	101	77	122	68	141	65
1.00–1.25	128	98	155	86	179	81
1.26–1.45	149	114	180	101	208	95
1.46–1.95	200	152	241	134	278	127

NOTES:
1. CONNECTION DEMANDS ARE PROVIDED TO ALLOW RDP IN RESPONSIBLE CHARGE TO VERIFY NON PRE–APPROVED COMPONENTS OF THE FRAMING SYSTEM AND THE SUPPORTING STRUCTURE.
2. SEE ST2.02 FOR TYPICAL PARTITION WALL SECTIONS.
3. LOADS GIVEN IN PLF MULTIPLY BY APPROPRIATE BRACE SPACING FOR REACTIONS.
4. LOADS GIVEN DO NOT INCLUDE Ω, FOR CONCRETE ATTACHMENTS ASCE 7–10 W/ SUPPLEMENT #1 TABLE 13.5–1.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: TOP & BOTTOM CONNECTION DEMAND SCHEDULES
DPD NO.: ST6.11

PLOT DATE: May 05, 2017

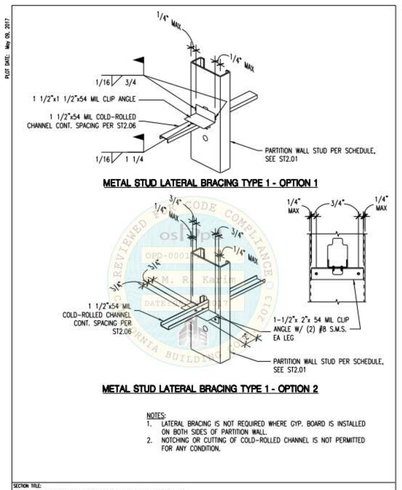


BACKING PLATE DETAIL TYPE 2

NOTES:
1. THIS DETAIL MAY BE USED FOR ATTACHMENT OF CABINETS OR EQUIPMENT DISTRIBUTING LESS THAN 20# PER STUD (CENTER OF GRAVITY LESS THAN 6" FROM FACE OF STUD).
2. SEE ST5.00 FOR ALTERNATE WELDING OPTION.
3. NOTCHING OR CUTTING OF BACKING PLATE IS NOT PERMITTED.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: BACKING PLATE DETAIL TYPE 2
DPD NO.: ST5.01

PLOT DATE: May 05, 2017



NOTES:
1. LATERAL BRACING IS NOT REQUIRED WHERE CYP. BOARD IS INSTALLED ON BOTH SIDES OF PARTITION WALL.
2. NOTCHING OR CUTTING OF COLD–ROLLED CHANNEL IS NOT PERMITTED FOR ANY CONDITION.

SECTION TITLE: STANDARD PARTITION WALL DETAILS
SHEET TITLE: METAL STUD LATERAL BRACING TYPE 1
DPD NO.: ST4.00

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Rev.	Description	Date
	ISSUE FOR PLAN REVIEW BACKCHECK	21 JAN 2022
	ISSUE FOR PLAN REVIEW	27 OCT 2021
	ISSUE FOR PLANNING	15 DEC 2020
	ISSUE FOR GRADING PERMIT	03 DEC 2020
	AGENCY APPROVAL	

ARCHITECT SEAL
LICENSED ARCHITECT
MATTHEW S. GREINER
NO. C27137
REN.: 10-31-2023
STATE OF CALIFORNIA

CONSULTANT SEAL

Drawing Title:

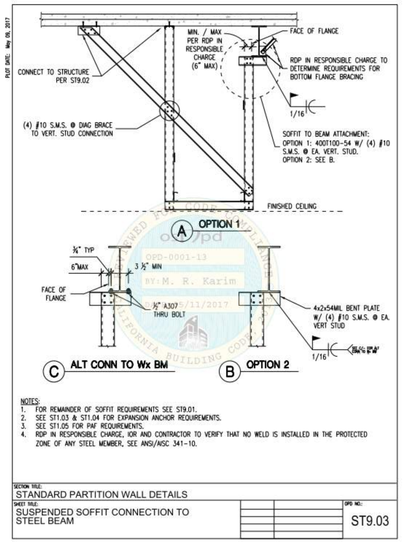
PARTITION DETAILS

Issue Date: 01/21/2022
Project No.: 006240.00 Checked by: Checker

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NOTES:
1. FOR REMAINDER OF SOFFIT REQUIREMENTS SEE ST9.01.
2. SEE ST1.03 & ST1.04 FOR EXPANSION ANCHOR REQUIREMENTS.
3. SEE ST1.05 FOR PAF REQUIREMENTS.
4. RDP IN RESPONSIBLE CHARGE, IOR AND CONTRACTOR TO VERIFY THAT NO WELD IS INSTALLED IN THE PROTECTED ZONE OF ANY STEEL MEMBER, SEE ANSI/ASC 341-10.

PLOT DATE: May 05, 2017

SECTION TITLE: STANDARD PARTITION WALL DETAILS

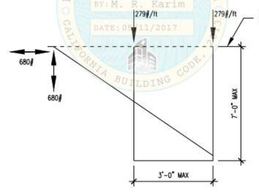
SHEET TITLE: SUSPENDED SOFFIT CONNECTION TO STEEL BEAM

DPD NO.: ST9.03

SUSPENDED SOFFIT CONNECTION SCHEDULE

STRUCTURE ABOVE SUSPENDED SOFFIT	DETAIL
CONCRETE SLAB, BEAM OR LWC FILLED METAL DECK	ST9.02
CONNECTION TO STEEL BEAM	ST9.03
CONCRETE PAN JOIST OR WAFFLE SYSTEM SLAB SYSTEM	NOT AVAILABLE
METAL ROOF DECK WITHOUT CONCRETE FILL SYSTEM	NOT AVAILABLE
WOOD FRAMING	NOT AVAILABLE

NOTES:
1. SEE ST9.01 FOR SUSPENDED SOFFIT DETAIL.
2. SEE SOFFIT LOADING DIAGRAM BELOW. RDP IN RESPONSIBLE CHARGE TO DESIGN CONNECTION AND CHECK SUPPORTING FRAMING FOR ALL CONDITIONS NOT COVERED IN THESE DETAILS. LOADS SHOWN AT ALLOWABLE STRESS LEVEL.
3. THE DEMANDS LISTED DO NOT INCLUDE OVERSTRENGTH FACTOR IN ACCORDANCE WITH ASCE 7-10 SUPPLEMENT 1 TABLE 13.5-1 FOR ANCHORAGE TO CONCRETE. FOR CONNECTION TO CONCRETE DEMAND SHALL BE AMPLIFIED BY THE OVERSTRENGTH FACTOR IN ACCORDANCE WITH ASCE 7-10 TABLE 13.5-1



PLOT DATE: May 05, 2017

SECTION TITLE: STANDARD PARTITION WALL DETAILS

SHEET TITLE: SUSPENDED SOFFIT CONNECTION SCHEDULE

DPD NO.: ST9.00

BOTTOM TRACK CONNECTION TO LWC ON METAL DECK FASTENER MAX SPACING SCHEDULE

BOTTOM CONNECTION DEMANDS (PARTITION WALL CONDITION 'A')

MAX PARTITION WALL HEIGHT	S_{DS}	MAXIMUM FASTENER SPACING IN INCHES AT BOTTOM CONNECTION: PAF	3/8"ø EXP ANCHOR W/ 2" EMBED	1/2"ø EXP ANCHOR W/ 2 1/4" EMBED	3/8"ø SCREW ANCHOR W/ 2 1/2" EMBED	1/2"ø SCREW ANCHOR W/ 2 1/2" EMBED
9 FT	0.25-0.99	32	32	32	32	32
	1.00-1.25	24	32	32	32	32
	1.26-1.45	16	32	32	32	32
	1.46-1.95	16	32	32	32	32
12 FT	0.25-0.99	24	32	32	32	32
	1.00-1.25	16	32	32	32	32
	1.26-1.45	16	32	32	32	32
	1.46-1.95	8	32	32	32	32
16 FT	0.25-0.99	16	32	32	32	32
	1.00-1.25	8	32	32	32	32
	1.26-1.45	8	32	32	32	32
	1.46-1.95	8	32	32	32	32

BOTTOM CONNECTION DEMANDS (PARTITION WALL CONDITION 'B')

MAX PARTITION WALL HEIGHT	S_{DS}	MAXIMUM FASTENER SPACING IN INCHES AT BOTTOM CONNECTION: PAF	3/8"ø EXP ANCHOR W/ 2" EMBED	1/2"ø EXP ANCHOR W/ 2 1/4" EMBED	3/8"ø SCREW ANCHOR W/ 2 1/2" EMBED	1/2"ø SCREW ANCHOR W/ 2 1/2" EMBED
9 FT	0.25-0.99	16	32	32	32	32
	1.00-1.25	16	32	32	32	32
	1.26-1.45	8	32	32	32	32
	1.46-1.95	8	32	32	32	32
12 FT	0.25-0.99	16	32	32	32	32
	1.00-1.25	8	32	32	32	32
	1.26-1.45	8	32	32	32	32
	1.46-1.95	-	32	32	32	32
16 FT	0.25-0.99	8	32	32	32	32
	1.00-1.25	8	32	32	32	32
	1.26-1.45	8	32	32	32	32
	1.46-1.95	-	32	32	32	32

BOTTOM CONNECTION DEMANDS (PARTITION WALL CONDITIONS 'C' & 'D')

MAX PARTITION WALL HEIGHT	S_{DS}	MAXIMUM FASTENER SPACING IN INCHES AT BOTTOM CONNECTION: PAF	3/8"ø EXP ANCHOR W/ 2" EMBED	1/2"ø EXP ANCHOR W/ 2 1/4" EMBED	3/8"ø SCREW ANCHOR W/ 2 1/2" EMBED	1/2"ø SCREW ANCHOR W/ 2 1/2" EMBED
9 FT	0.25-0.99	-	32	32	32	32
	1.00-1.25	-	32	32	24	32
	1.26-1.45	-	32	32	24	32
	1.46-1.95	-	24	32	16	16
12 FT	0.25-0.99	-	32	32	32	32
	1.00-1.25	-	32	32	24	24
	1.26-1.45	-	24	32	16	24
	1.46-1.95	-	16	24	16	16
16 FT	0.25-0.99	-	32	32	24	24
	1.00-1.25	-	32	32	16	24
	1.26-1.45	-	24	32	16	16
	1.46-1.95	-	16	24	8	16

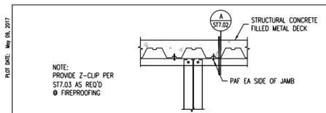
NOTES:
1. SEE ST1.01 & ST1.02 FOR PAF REQUIREMENTS.
2. SEE ST1.03 & ST1.04 FOR EXPANSION ANCHOR REQUIREMENTS.
3. SEE ST1.09 & ST1.10 FOR SCREW ANCHOR REQUIREMENTS.

PLOT DATE: May 05, 2017

SECTION TITLE: STANDARD PARTITION WALL DETAILS

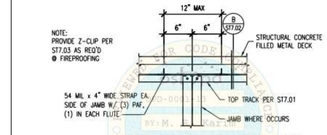
SHEET TITLE: BOTTOM TRACK CONNECTION TO LWC ON METAL DECK FASTENER MAX SPACING SCHEDULE

DPD NO.: ST8.02



ANCHORAGE TO CONC. FILLED METAL DECK AT JAMB LOCATION

A (FLUTES PERPENDICULAR TO WALL)



ANCHORAGE TO CONC. FILLED METAL DECK AT JAMB LOCATION

B (FLUTES PARALLEL TO WALL)

STRUCTURAL CONDITION ABOVE TOP TRACK	PROVIDE ADD'L TOP TRACK CONN AT JAMB USING DETAIL LISTED BELOW
CONCRETE PAN JOIST OR WAFFLE SLAB SYSTEM	ST7.05 OR ST7.06
METAL ROOF DECK WITHOUT STRUCTURAL CONCRETE FILL	ST7.07
STEEL BEAM	ST7.08
WOOD FRAMING	ST7.09

NOTE:
1. SEE ST1.01, ST1.02 & ST1.05 FOR PAF REQUIREMENTS.

PLOT DATE: May 05, 2017

SECTION TITLE: STANDARD PARTITION WALL DETAILS

SHEET TITLE: TOP TRACK CONNECTION AT JAMB LOCATIONS - PARTITION WALL CONDITION 'A'

DPD NO.: ST7.10

A DOUBLE STUD BRACE

NOTES:
1. USE MIN 4" x 33 MIL STUDS (400S137-33) FOR S_{DS} ≤ 1.45 & 4" x 43 MIL (400S137-43) FOR 1.45 < S_{DS} ≤ 1.95
2. SUSPENDED SOFFITS ARE NOT DESIGNED TO SUPPORT ADJACENT HANGING OR FRAMED CEILINGS, EQUIPMENT OR CABINETS.
3. SEE ST1.03 & ST1.04 FOR EXPANSION ANCHOR REQUIREMENTS.

PLOT DATE: May 05, 2017

SECTION TITLE: STANDARD PARTITION WALL DETAILS

SHEET TITLE: SUSPENDED SOFFIT DETAIL

DPD NO.: ST9.01

BOTTOM TRACK CONNECTION TO NWC SLAB FASTENER MAX SPACING SCHEDULE

BOTTOM CONNECTION DEMANDS (PARTITION WALL CONDITION 'A')

MAX PARTITION WALL HEIGHT	S_{DS}	MAXIMUM FASTENER SPACING IN INCHES AT BOTTOM CONNECTION: PAF	3/8"ø EXP ANCHOR W/ 2" EMBED	1/2"ø EXP ANCHOR W/ 2 1/4" EMBED	3/8"ø SCREW ANCHOR W/ 2 1/2" EMBED	1/2"ø SCREW ANCHOR W/ 2 1/2" EMBED
9 FT	0.25-0.99	32	32	32	32	32
	1.00-1.25	24	32	32	32	32
	1.26-1.45	16	32	32	32	32
	1.46-1.95	16	32	32	32	32
12 FT	0.25-0.99	24	32	32	32	32
	1.00-1.25	16	32	32	32	32
	1.26-1.45	16	32	32	32	32
	1.46-1.95	8	32	32	32	32
16 FT	0.25-0.99	16	32	32	32	32
	1.00-1.25	8	32	32	32	32
	1.26-1.45	8	32	32	32	32
	1.46-1.95	8	32	32	32	32

BOTTOM CONNECTION DEMANDS (PARTITION WALL CONDITION 'B')

MAX PARTITION WALL HEIGHT	S_{DS}	MAXIMUM FASTENER SPACING IN INCHES AT BOTTOM CONNECTION: PAF	3/8"ø EXP ANCHOR W/ 2" EMBED	1/2"ø EXP ANCHOR W/ 2 1/4" EMBED	3/8"ø SCREW ANCHOR W/ 2 1/2" EMBED	1/2"ø SCREW ANCHOR W/ 2 1/2" EMBED
9 FT	0.25-0.99	16	32	32	32	32
	1.00-1.25	16	32	32	32	32
	1.26-1.45	8	32	32	32	32
	1.46-1.95	8	32	32	32	32
12 FT	0.25-0.99	16	32	32	32	32
	1.00-1.25	8	32	32	32	32
	1.26-1.45	8	32	32	32	32
	1.46-1.95	8	32	32	32	32
16 FT	0.25-0.99	8	32	32	32	32
	1.00-1.25	8	32	32	32	32
	1.26-1.45	8	32	32	32	32
	1.46-1.95	-	32	32	32	32

BOTTOM CONNECTION DEMANDS (PARTITION WALL CONDITIONS 'C' & 'D')

MAX PARTITION WALL HEIGHT	S_{DS}	MAXIMUM FASTENER SPACING IN INCHES AT BOTTOM CONNECTION: PAF	3/8"ø EXP ANCHOR W/ 2" EMBED	1/2"ø EXP ANCHOR W/ 2 1/4" EMBED	3/8"ø SCREW ANCHOR W/ 2 1/2" EMBED	1/2"ø SCREW ANCHOR W/ 2 1/2" EMBED
9 FT	0.25-0.99	-	32	32	32	32
	1.00-1.25	-	32	32	32	32
	1.26-1.45	-	32	32	32	32
	1.46-1.95	-	32	32	32	32
12 FT	0.25-0.99	-	32	32	32	32
	1.00-1.25	-	32	32	32	32
	1.26-1.45	-	32	32	32	32
	1.46-1.95	-	24	32	24	24
16 FT	0.25-0.99	-	32	32	32	32
	1.00-1.25	-	32	32	32	32
	1.26-1.45	-	32	32	32	32
	1.46-1.95	-	24	32	24	24

NOTES:
1. SEE ST1.01 & ST1.02 FOR PAF REQUIREMENTS.
2. SEE ST1.03 & ST1.04 FOR EXPANSION ANCHOR REQUIREMENTS.
3. SEE ST1.09 & ST1.10 FOR SCREW ANCHOR REQUIREMENTS.

PLOT DATE: May 05, 2017

SECTION TITLE: STANDARD PARTITION WALL DETAILS

SHEET TITLE: BOTTOM TRACK CONNECTION TO NWC SLAB FASTENER MAX SPACING SCHEDULE

DPD NO.: ST8.03

BOTTOM CONNECTION SCHEDULE

STRUCTURAL CONDITION BELOW BOTTOM TRACK	BOTTOM TRACK CONNECTION: PARTITION WALL CONDITIONS 'A', 'B', 'C', & 'D'
LWC FILLED METAL DECK OR NWC SLAB	ST8.01
WOOD FRAMING	ST8.04

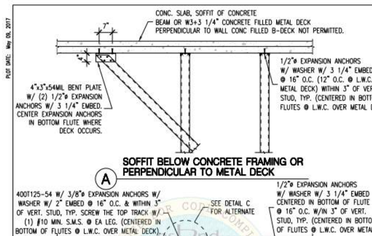
NOTES:
1. FOR PARTITION WALL CONDITION DESCRIPTION SEE ST2.00
2. FOR BOTTOM CONNECTION DEMAND SCHEDULE SEE ST6.11.

PLOT DATE: May 05, 2017

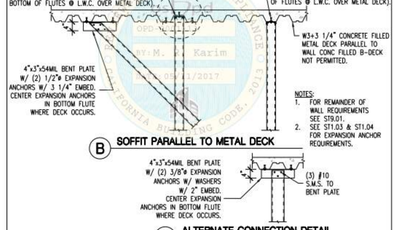
SECTION TITLE: STANDARD PARTITION WALL DETAILS

SHEET TITLE: BOTTOM CONNECTION SCHEDULE

DPD NO.: ST8.00



A SOFFIT BELOW CONCRETE FRAMING OR PERPENDICULAR TO METAL DECK



NOTES:
1. FOR REMAINDER OF WALL REQUIREMENTS SEE ST9.01.
2. SEE ST1.03 & ST1.04 FOR EXPANSION ANCHOR REQUIREMENTS.

B SOFFIT PARALLEL TO METAL DECK

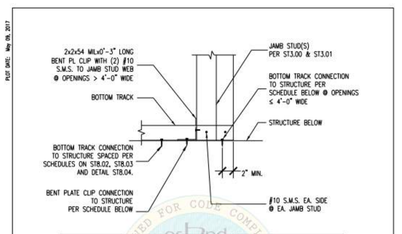
C ALTERNATE CONNECTION DETAIL

PLOT DATE: May 05, 2017

SECTION TITLE: STANDARD PARTITION WALL DETAILS

SHEET TITLE: SUSPENDED SOFFIT CONNECTION TO CONC. SLAB, CONC. BEAM OR LWC FILLED METAL DECK

DPD NO.: ST9.02



OPENING SIZE	JAMB STUD BOTTOM TRACK CONNECTION TYPE	CONNECTION TO STRUCTURE (THROUGH BENT PL CLIP OR THROUGH BOTTOM TRACK)
≤ 4'-0"	BOTTOM TRACK CONNECTION TO STRUCTURE (NO CLIP REQUIRED)	(3) PAF
		(1) 3/8"ø x 2" EMBED EXPANSION ANCHOR
		(1) 3/8"ø x 2 1/2" EMBED SCREW ANCHOR
		(2) #10 WOOD SCREWS
>4'-0" TO ≤ 10'-0"	BENT PL CLIP CONNECTION TO STRUCTURE	(1) 3/8"ø x 2" EMBED EXPANSION ANCHOR
		(1) 3/8"ø x 2 1/2" EMBED SCREW ANCHOR
		(3) #10 WOOD SCREWS

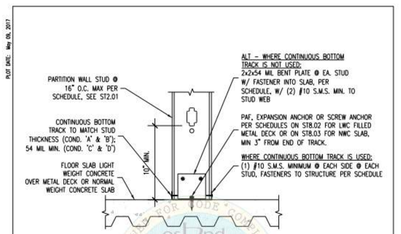
NOTE:
1. BOTTOM CONNECTION @ JAMBS AT PARTITION WALL CONDITION 'A', ALL S_{DS} CATEGORIES.

PLOT DATE: May 05, 2017

SECTION TITLE: STANDARD PARTITION WALL DETAILS

SHEET TITLE: BOTTOM TRACK CONNECTION @ JAMBS - PARTITION WALL CONDITION 'A'

DPD NO.: ST8.05



A PARTITION WALL BOTTOM TRACK ANCHORAGE

LIGHT WEIGHT CONCRETE OVER METAL DECK OR NORMAL WEIGHT CONCRETE SLAB

NOTES:
1. SEE ST1.01 & ST1.02 FOR PAF REQUIREMENT AND ST1.03 & ST1.04 FOR EXPANSION ANCHOR REQUIREMENTS AND ST1.09 & ST1.10 FOR SCREW ANCHOR REQUIREMENTS.
2. SEE ST8.05 FOR ANCHORAGE @ JAMBS.
3. FOR LIGHT WEIGHT CONCRETE OVER METAL DECK, SEE ST8.02 FOR FASTENER TO SLAB SCHEDULE.
4. FOR NORMAL WEIGHT CONCRETE SLAB, SEE ST8.03 FOR FASTENER TO SLAB SCHEDULE.
5. SEE ST2.01 FOR PARTITION WALL STUD SCHEDULE.

PLOT DATE: May 05, 2017

SECTION TITLE: STANDARD PARTITION WALL DETAILS

SHEET TITLE: BOTTOM TRACK CONNECTION TO LWC ON METAL DECK OR NWC SLAB - ALL PARTITION WALL CONDITIONS

DPD NO.: ST8.01

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Rev.	Description	Date
	ISSUE FOR PLAN REVIEW BACKCHECK	21 JAN 2022
	ISSUE FOR PLAN REVIEW	27 OCT 2021
	ISSUE FOR PLANNING	15 DEC 2020
	ISSUE FOR GRADING PERMIT	03 DEC 2020
	AGENCY APPROVAL	

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CONSULTANT SEAL

Drawing Title:

PARTITION DETAILS

Issue Date: 01/21/2022

Project No.: 006240.00 Checked by: Checker

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PARTITION OPENING SCHEDULE			
WALL OPENING WIDTH	JAMB STUDS	HEADER	SILL
UP TO 4'-0"	2-362S137-33	362S137-54 + 362T125-54	362T125-43
	2-400S137-33	400S137-54 + 400T125-54	400T125-43
	2-600S137-33	600S137-54 + 600T125-54	600T125-43
4'-0" TO 10'-0"	2-362S137-43	2-362S137-54 + 2-362T125-54	362S137-43 + 362T125-43
	2-400S137-43	2-400S137-54 + 2-400T125-54	400S137-43 + 400T125-43
	2-600S137-43	2-600S137-54 + 2-600T125-54	600S137-43 + 600T125-43
10'-0" TO 13'-0"	2-362S137-43	2-600S137-54 + 2-362T125-54	N/A

NOTES:
1. SEE ARCHITECTURAL DOCUMENTS FOR THE SIZE AND LOCATION OF INDIVIDUAL OPENINGS.
2. COORDINATE ATTACHMENT OF DOORS, WINDOWS, LOUVERS, ETC. WITH THE APPROVED COMPONENTS.

10 PARTITION OPENING SCHEDULE

ALLOWABLE SCREW CONNECTION CAPACITY										
THICKNESS (MILS)	YIELD STRESS (KSI)	#8 SCREWS			#10 SCREWS			#12 SCREWS		
		SHEAR	PULL-OUT	PULL-OVER	SHEAR	PULL-OUT	PULL-OVER	SHEAR	PULL-OUT	PULL-OVER
18	33	48	29	84	52	33	105	55	38	105
27	33	89	43	127	96	50	159	102	57	159
33	33	164	72	195	177	84	265	188	95	265
43	33	244	94	195	263	109	345	280	124	345
54	50	426	171	195	534	198	386	569	225	625
68	50	426	195	195	548	249	386	777	284	775
97	50	426	195	195	548	356	386	777	405	775
118	50	426	195	195	548	386	386	777	495	775

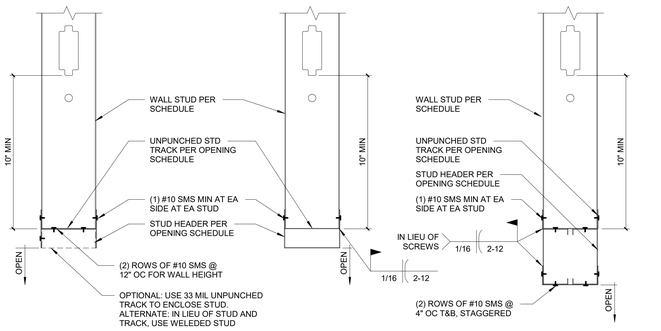
NOTES:
1. WHEN CONNECTING MEMBERS WITH DIFFERENT THICKNESSESS, THE CAPACITY FOR THE THINNER MEMBER APPLIES. FOR SHEAR AND PULL-OUT. OULL-OVER CAPACITY IS BASED ON THE THE THICKNESS OF THE MEMBER IN CONTACT WITH THE SCREW HEAD.
2. CAPACITES ARE BASED ON ALLOWABLE STRESS DESIGN (ASD) AND INCLUDE A SAFETY FACTOR OF 3.0.
3. SCREWS ARE ASSUMED TO HAVE A CENTER-TO-CENTER SPACING OF AT LEAST (3) NOMINAL SCREW DIAMETERS.
4. THE MINIMUM EDGE DISTANCE FOR ANY SCREW IS 1.5 TIMES THE NOMINAL SCREW DIAMETER.
5. DESIGN VALUES ARE BASED ON SATA PUBLISHED BY SSMA.

9 ALLOWABLE SCREW CONNECTION CAPACITY

PARTITION WALL MINIMUM STUD SIZE						
CONDITION	PARTITION WALL HEIGHT					
	10'-0"			13'-0"		
A	362S137-33	400S137-33	600S137-33	362S137-33	400S137-33	600S137-33
B	362S137-33	400S137-33	600S137-33	362S137-33	400S137-43	600S137-43
C	362S137-43	400S137-54	600S137-43	362S137-54	400S137-54	600S137-54
D	362S137-43	400S137-54	600S137-43	362S137-54	400S137-54	600S137-54

NOTES:
1. SCHEDULE BASED ON OSHPD CBC 2013 STANDARD PARTITION WALL DETAILS ST2.01
2. PARTITION WALL STUDS ARE SPACED AT 16" OC TYPICAL UNLESS NOTED OTHERWISE.
3. SCHEDULE DOES NOT APPLY AT WALLS ADJACENT TO AND USED TO BRACE MODULAR ROOMS. SEE
4. STUDS SHOWN IN THE SCHEDULES ABOVE CAN BE REPLACED BY EQUIVALENT STUDS WITH EQUAL OR HIGHER AREA, MODULUS, AND MOMENT OF INERTIA WITH EQUAL OR HIGHER YIELD STRENGTH (Fy) AND ULTIMATE STRENGTH (Fu) WHEN APPROVED.
5. PARTITION WALLS TO HAVE LATERAL BRACING AT 48" OC FOR FULL HEIGHT OF PARTITION WALL UNLESS GYP BOARD IS INSTALLED ON BOTH SIDES OF PARTITION WALL.
6. PARTITION WALL CONDITONS:
   A. PARTITION WITHOUT ATTACHED EQUIPMENT.
   B. PARTITION SUPPORTING EQUIPMENT OR CABINETS WEIGHING 37 PLF OR LESS ATTACHED TO ONE OR BOTH SIDES OF THE WALL.
   C. PARTITION SUPPORTING OVERHEAD AND/OR BASE CABINETS OR EQUIPMENT ATTACHED TO ONE OR BOTH SIDES OF THE WALL. OVERHEAD EQUIPMENT WIGHT NOT TO EXCEED 114 PLF. TOTAL EQUIPMENT WEIGHT NOT TO EXCEED 228 PLF.
   D. PARTITION SUPPORTING FULL-HEIGHT CABINETS OR EQUIPMENT WEIGHING 285 PLF OR LESS ATTACHED TO ONE OR BOTH SIDES OF THE WALL.
7. THE MOST STRINGENT CONDITION (A THROUGH D) APPLIES OVER THE FULL LENGTH OF ANY WALL LOCATED BETWEEN OPENINGS OR CORNERS.

8 PARTITION WALL SCHEDULES

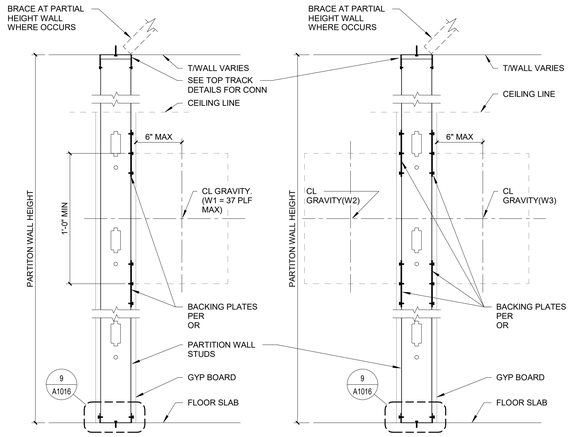


HEADER AT OPENING (4'-0" MAX)

HEADER AT OPENING (4'-0" TO 10'-0" MAX)

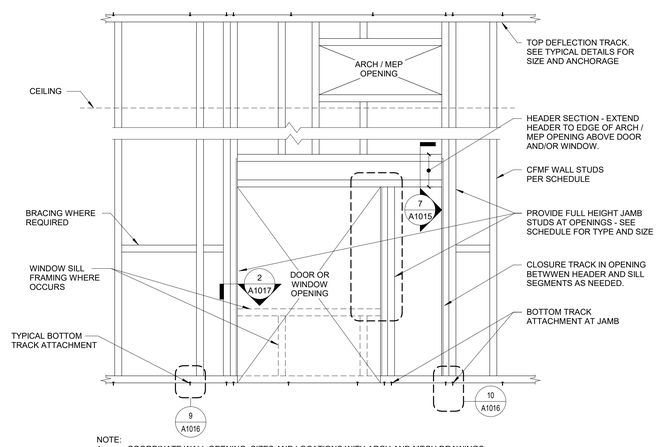
NOTE:
1. ATTACHMENT OF CEILING , EQUIPMENT, ETC TO THE HEADER OR STUDS ABOVE THE HEADER ARE NOT PERMITTED WITHOUT THE APPROVAL OF THE REGISTERD DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.

7 PARTITION WALL HEADER SECTION
NTS



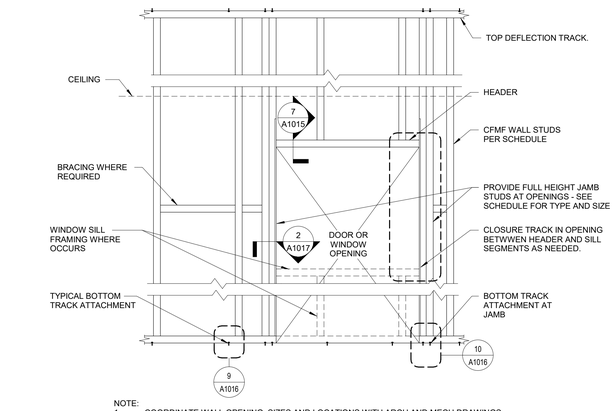
NOTES:
1. DETAIL APPLIES TO PARTITION WALLS SUPPORTING CABINETS OR EQUIPMENT THAT CONFORM TO THE REQUIREMENTS OF CONDITION "B" AS DEFINED IN THE PARTITION WALL SCHEDULE.
2. OPTION 1 APPLIES TO PARTITION WALLS SUPPORTING OVERHEAD AND/OR BASE CABINET OR EQUIPMENT ON ONE SIDE OF THE WALL. FOR OPTION 2 WHERE CABINETS OR EQUIPMENT OCCUR ON BOTH SIDES OF THE WALL, PROVIDE EITHER OF THE THE FOLLOWING:
   A. DECREASE SPACING OF WALL STUDS AND TOP AND BOTTOM TRACK ANCHORAGE BY 50% (IE: PROVIDE TWICE THE QUANTITY OF WALL STUDS AND TOP AND BOTTOM TRACK ANCHORAGE).
   B. LIMIT THE COMBINED WEIGHT OF CABINETS OR EQUIPMENT ON OPPOSITE SIDES OF WALL AS SHOWN IN OPTION 2 SUCH THAT W1 = W2+W3.
3. SEE SCHEDULE FOR MINIMUM PARTITION WALL STUD SIZE.

6 PARTITION WALL CONDITION "B" WITH CABINET / EQUIPMENT ANCHORAGE
NTS



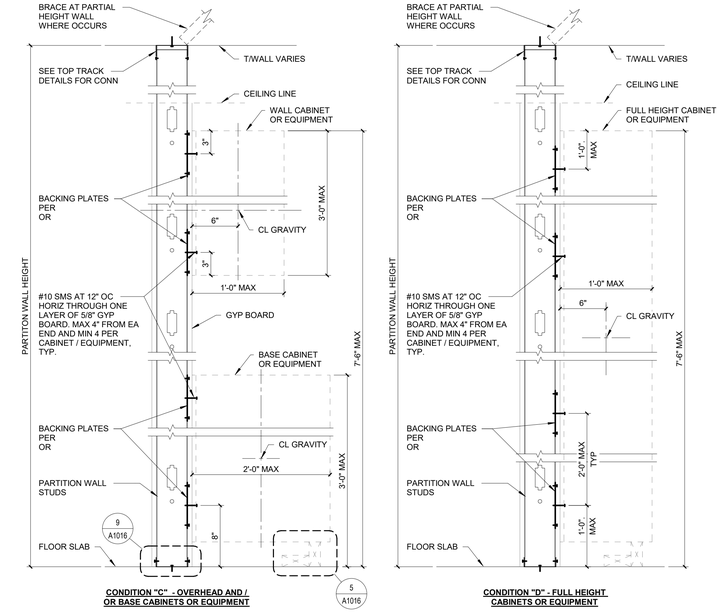
NOTE:
1. COORDINATE WALL OPENING, SIZES AND LOCATIONS WITH ARCH AND MECH DRAWINGS.
2. ATTACHMENT OF CEILING EQUIPMENT, ETC TO THE JAMB, HEADER OR STUD ABOVE THE HEADER IS NOT PERMITTED WITHOUT THE APPROVAL OF THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.

5 TYPCIAL OVERLAPPING OPENING DETAIL AT INTERIOR PARTITION WALLS
NTS



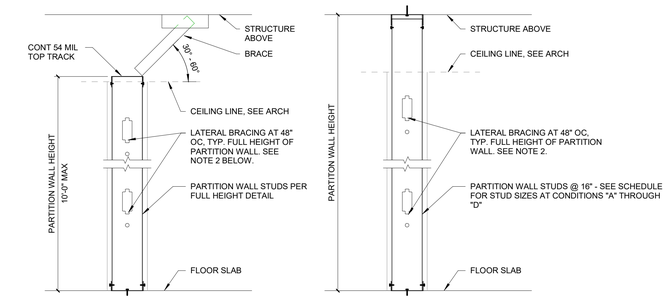
NOTE:
1. COORDINATE WALL OPENING, SIZES AND LOCATIONS WITH ARCH AND MECH DRAWINGS.
2. SEE WALL SECTIONS FOR STUD SIZE AND SPACING.

4 TYPICAL OPENINGS IN INTERIOR PARTITION WALLS
NTS



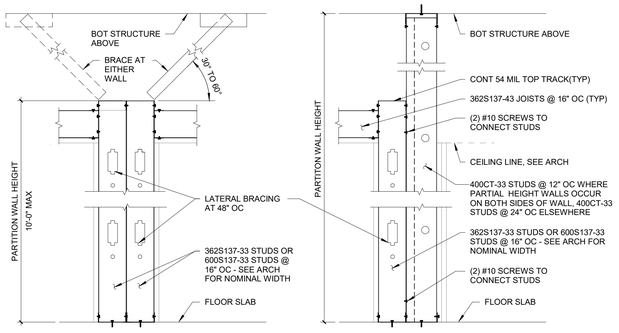
NOTES:
1. DETAIL APPLIES TO PARTITION WALLS SUPPORTING CABINETS OR EQUIPMENT THAT CONFORM TO THE REQUIREMENTS OF CONDITIONS "C" OR "D" AS DEFINED IN THE PARTITION WALL SCHEDULE.
2. WHERE CABINET OR EQUIPMENT OCCUR ON BOTH SIDES OF THE PARTITION WALL, DECREASE SPACING OF WALL STUDS AND TOP AND BOTTOM TRACK ANCHORAGE BY 50% (IE: PROVIDE TWICE THE QUANTITY OF WALL STUDS AND TOP AND BOTTOM TRACK ANCHORAGE)

3 PARTITION WALL CONDITION "C" OR "D" WITH CABINET / EQUIPMENT ANCHORAGE
NTS



NOTES:
1. SEE PARTITION WALL SCHEDULES FOR STUD SIZES AND DEFINITIONS OF CONDITIONS "A" THROUGH "D"
2. LATERAL BRACING IS NOT REQUIRED WHERE GYP BOARD IS INSTALLED ON BOTH SIDES OF PARTITION WALL.

2 PARTITION WALL SECTIONS
NTS



1 PARTITION WALL CONDITIONS AT DOUBLE STUD WALLS
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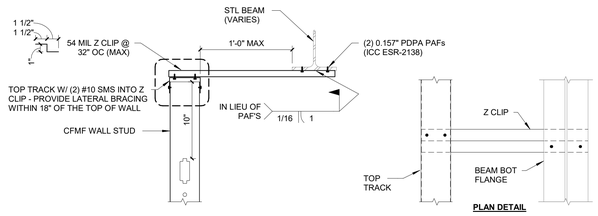
TYPICAL COLD FORMED METAL FRAMING PARTITION DETAILS

Issue Date: 01/21/2022
Project No.: 006240.00 Checked by: PS

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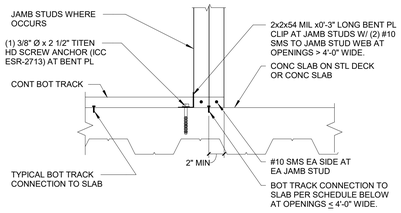
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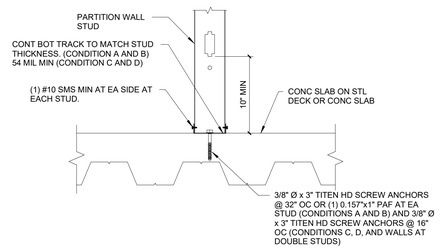


NOTE: SEE PARTITION WALL SCHEDULE FOR STUD SIZE AND SPACING.

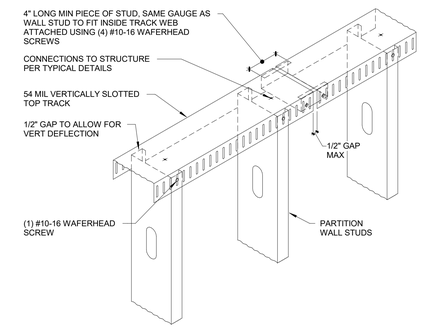
14 PARTITION WALL TOP TRACK CONNECTION TO STEEL BEAMS
NTS



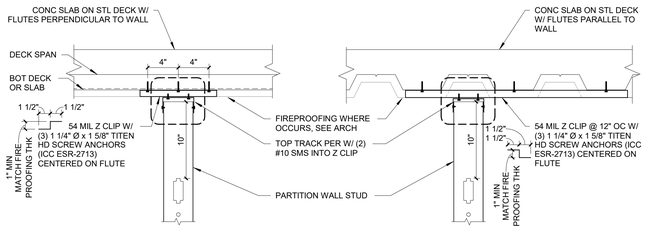
10 PARTITION WALL BOTTOM TRACK CONNECTION AT JAMB TO CONCRETE SLABS
NTS



9 PARTITION WALL BOTTOM TRACK CONNECTION TO CONCRETE SLABS
NTS



4 DEFLECTION TRACK AT PARTITION WALLS
NTS

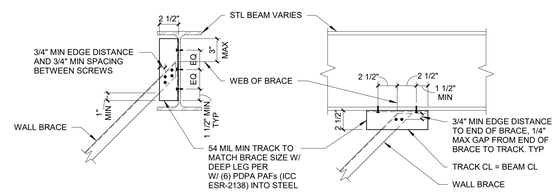


ANCHORAGE AT CONC SLAB ON STEEL DECK OR CONC SLAB

ANCHORAGE AT STEEL DECK ON CONC SLAB

NOTE: SEE PARTITION WALL SCHEDULE FOR STUD SIZE AND SPACING.

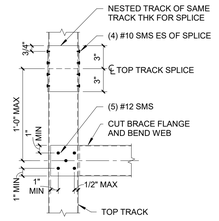
13 PARTITION WALL TOP TRACK CONNECTION TO CONCRETE SLABS WITH FIREPROOFING
NTS



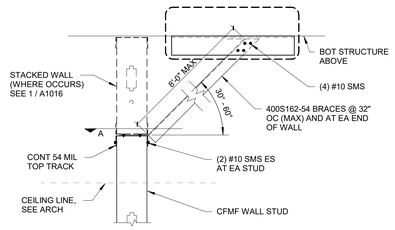
DETAIL A DETAIL B

NOTES:
1. STEEL BEAM FLANGE AND WEB MINIMUM THICKNESS = 3/16".
2. SLAB AND/OR STEEL DECK NOT SHOWN FOR CLARITY.

8 PARTITION WALL BRACE CONNECTION TO STEEL BEAM
NTS



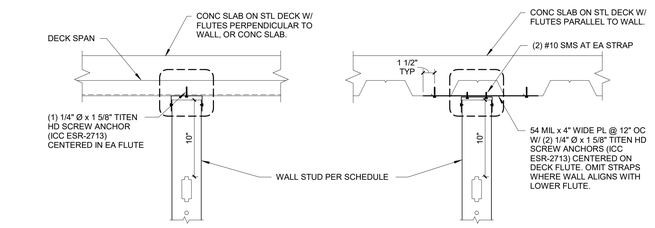
PLAN DETAIL "A"



PARTIAL HEIGHT PARTITION WALL DETAIL

NOTES:
1. SEE PARTITION WALL SCHEDULES FOR STUD SIZES AND DEFINITIONS OF CONDITIONS "A" THROUGH "D"
2. COORDINATE DIRECTION OF KICKERS WITH ARCHITECTURAL AND MEP DOCUMENTS. ALTERNATE KICKER DIRECTION WHERE POSSIBLE.
3. REFER TO ARCHITECTURAL DOCUMENTS FOR LOCATIONS WHERE STACKED WALL CONFIGURATION IS REQUIRED.

3 PARTIAL HEIGHT PARTITION WALL BRACE - CONDITION C AND D
NTS

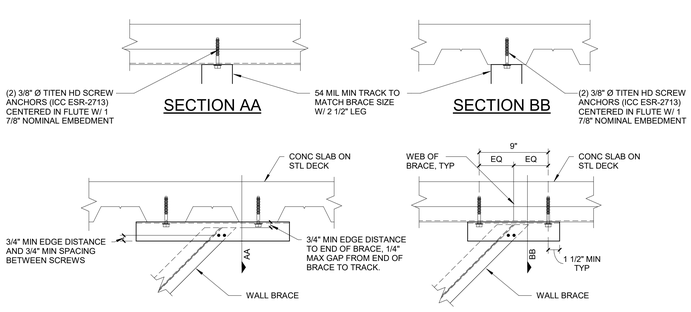


DETAIL A - ANCHORAGE AT CONC SLAB ON STEEL DECK OR CONC SLAB

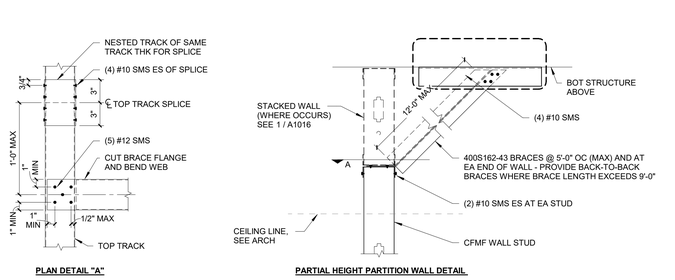
DETAIL B - ANCHORAGE AT STEEL DECK ON CONC SLAB

NOTE: SEE PARTITION WALL SCHEDULE FOR STUD SIZE AND SPACING.

12 PARTITION WALL TOP TRACK CONNECTION TO CONCRETE SLABS
NTS



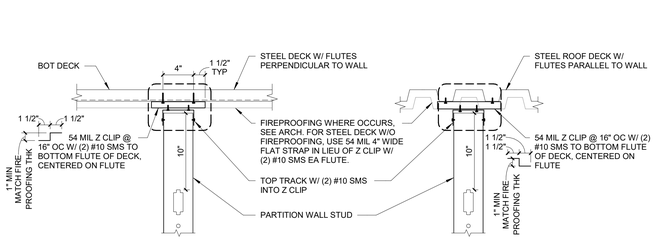
7 PARTITION WALL BRACE CONNECTION TO CONCRETE SLAB ON STEEL DECK
NTS



PLAN DETAIL "A" PARTIAL HEIGHT PARTITION WALL DETAIL

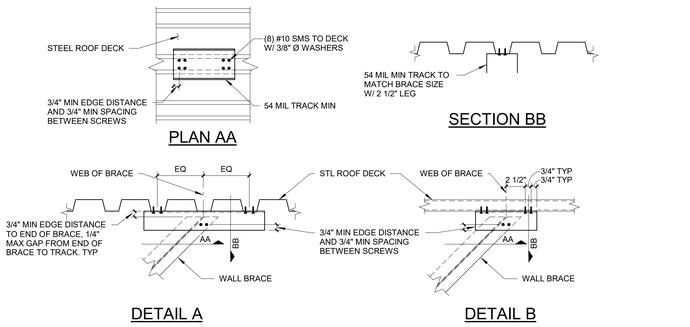
NOTES:
1. SEE PARTITION WALL SCHEDULES FOR STUD SIZES AND DEFINITIONS OF CONDITIONS "A" THROUGH "D"
2. COORDINATE DIRECTION OF KICKERS WITH ARCHITECTURAL AND MEP DOCUMENTS. ALTERNATE KICKER DIRECTION WHERE POSSIBLE.
3. REFER TO ARCHITECTURAL DOCUMENTS FOR LOCATIONS WHERE STACKED WALL CONFIGURATION IS REQUIRED.

2 PARTIAL HEIGHT PARTITION WALL BRACE - CONDITION A AND B
NTS



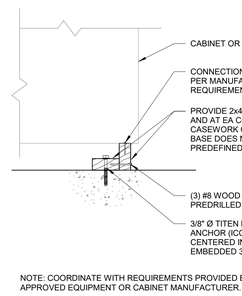
NOTES:
1. CONNECTION SPACING SHOWN ABOVE REPRESENTS MAXIMUM SPACING. DECREASE SPACING AS REQUIRED TO COORDINATE WITH STEEL DECK FLUTE SPACING.

11 PARTITION WALL TOP TRACK CONNECTION TO STEEL ROOF DECK
NTS



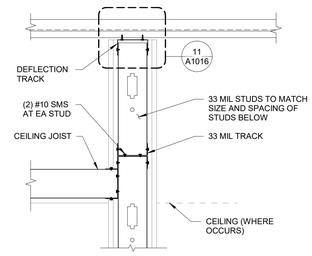
DETAIL A DETAIL B

6 PARTITION WALL BRACE CONNECTION TO STEEL DECK
NTS



NOTE: COORDINATE WITH REQUIREMENTS PROVIDED BY APPROVED EQUIPMENT OR CABINET MANUFACTURER.

5 EQUIPMENT ANCHORAGE DETAIL1
1 1/2" = 1'-0"



1 STACKED WALL DETAIL
1 1/2" = 1'-0"

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MATTHEW S. GREINER
NO. C27137
REN.: 10-31-2023
STATE OF CALIFORNIA

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TYPICAL COLD FORMED METAL FRAMING PARTITION DETAILS

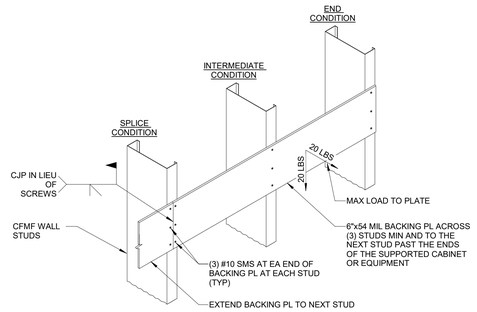
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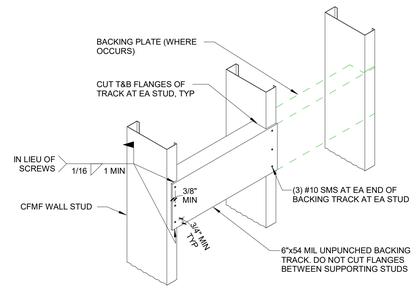
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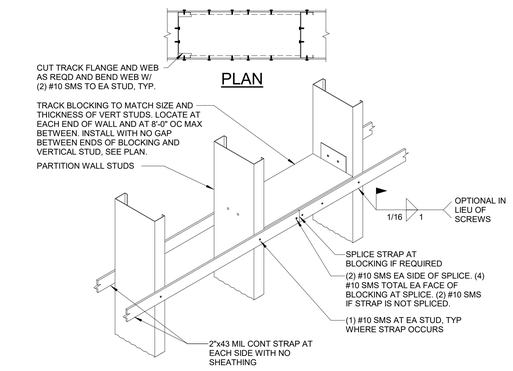
NOTES:
1. THIS DETAIL MAY BE USED FOR ATTACHMENT OF CABINETS OR EQUIPMENT DISTRIBUTING LESS THAN 20 LBS PER STUD, WITH CENTER OF GRAVITY LESS THAN 6" FROM FACE OF STUDS.
2. NOTCHING OR CUTTING OF BLOCKING PLATE IS NOT PERMITTED.

7 METAL STUD BACKING PLATE TYPE 2
NTS



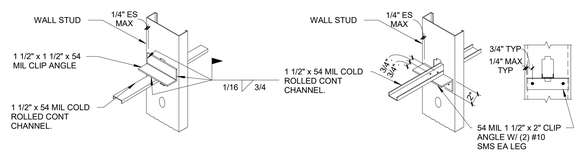
NOTES:
1. NOTCHING OR CUTTING OF TRACK IS NOT PERMITTED EXCEPT AS SHOWN.
2. 250 LB GRAB BAR LOAD APPLIED IN ANY DIRECTION.
3. REFER TO REQUIREMENTS FOR CONDITIONS B, C, AND D FOR MAXIMUM WEIGHT OF MOUNTED EQUIPMENT OR CABINETS.

6 METAL STUD BACKING PLATE FOR GRAB BARS AND MOUNTED EQUIPMENT
NTS



NOTES:
1. LATERAL BRACING IS NOT REQUIRED WHERE GYP BOARD IS INSTALLED ON BOTH SIDES OF PARTITION WALL.
2. NOTCHING OR CUTTING OF BLOCKING OR STRAPPING IS NOT PERMITTED FOR ANY CONDITION.

5 METAL STUD LATERAL BRACING TYPE 2
NTS

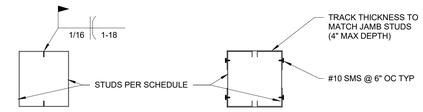


METAL STUD LATERAL BRACING TYPE 1 - OPTION 1

METAL STUD LATERAL BRACING TYPE 1 - OPTION 2

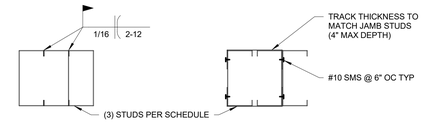
NOTES:
1. LATERAL BRACING IS NOT REQUIRED WHERE GYP BOARD IS INSTALLED ON BOTH SIDES OF PARTITION WALL.
2. NOTCHING OR CUTTING OF COLD ROLLED IS NOT PERMITTED FOR ANY CONDITION.
3. SEE PARTITION WALL SCHEDULE FOR BRACING LOCATIONS. PROVIDE MID-HEIGHT AT EXTERIOR WALLS, WHERE REQUIRED.

4 METAL STUD LATERAL BRACING TYPE 1
NTS



DOUBLE JAMB STUD DETAIL "A"

ALTERNATE DOUBLE JAMB STUD DETAIL "B"

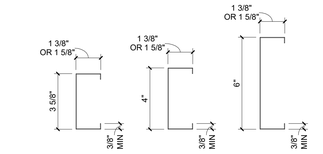


TRIPLE JAMB STUD DETAIL "C"

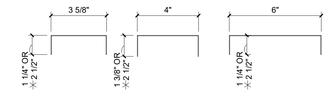
ALTERNATE TRIPLE JAMB STUD DETAIL "D"

NOTES:
1. WHERE (2) STUDS ARE INDICATED ON PLAN OR ELEVATION, USE DOUBLE STUD DETAIL A OR B ABOVE. WHERE (3) STUDS ARE INDICATED, USE TRIPLE STUD DETAIL COR D ABOVE.
2. SEE OPENING SCHEDULES FOR STUD SIZE AND THICKNESS.

2 JAMB STUD DETAIL
3" = 1'-0"



STRUCTURAL STUDS ('S'-SECTIONS)



STRUCTURAL TRACK ('T'-SECTIONS)

⁜ DEEP LEG TRACK. WHERE OCCURS AS NOTED IN DETAILS.

DESIGNATION THICKNESS (MILS)	REFERENCE ONLY GAUGE NUMBER	THICKNESS (IN)
18	25	0.0179
27	22	0.0269
33	20	0.0346
43	18	0.0451
54	16	0.0566
68	14	0.0713
97	12	0.1017
118	10	0.1242

NOTES:
1. SEE WALL STUD FRAMING FOR THICKNESS AND TRACKS.
2. Fy = 50 KSI FOR 54 MIL (16 GA) AND THICKER SECTIONS AND Fy = 33KSI FOR SECTIONS UP TO AND INCLUDING 43 MIL (18 GA).
3. SIZE AND THICKNESS ARE CONSIDERED MINIMUMS.
4. STRUCTURAL STUDS MAY BE PUNCHED UNLESS NOTED OTHERWISE. STRUCTURAL TRACK SHALL BE UNPUNCHED UNLESS NOTED OTHERWISE.

1 TYPICAL METAL STUD PROFILES
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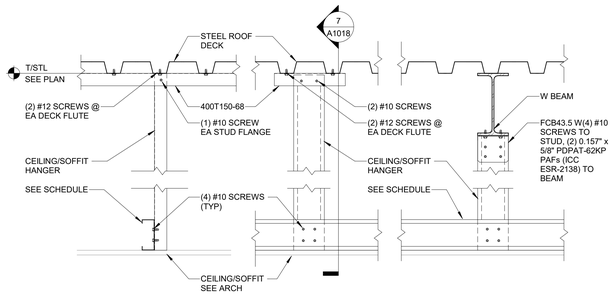
TYPICAL COLD FORMED METAL FRAMING PARTITION DETAILS

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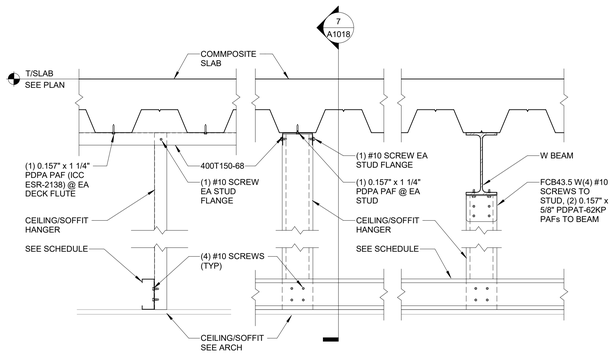
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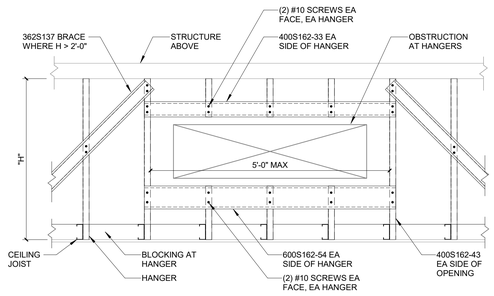


HANGER AT STEEL ROOF DECK

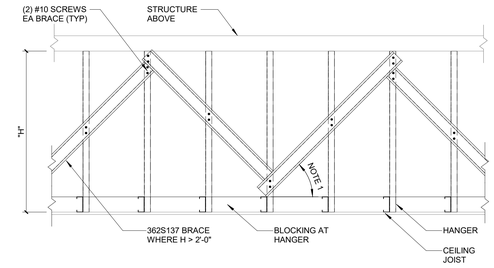


HANGER AT COMPOSITE SLAB

10 TYPICAL HANGER AT CEILING OR INTERIOR SOFFIT
NTS



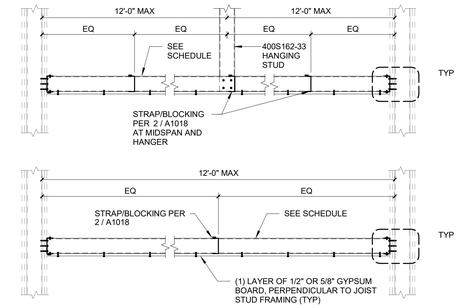
BRACING INTERRUPTED BY OBSTRUCTION



TYPICAL BRACING CONFIGURATION

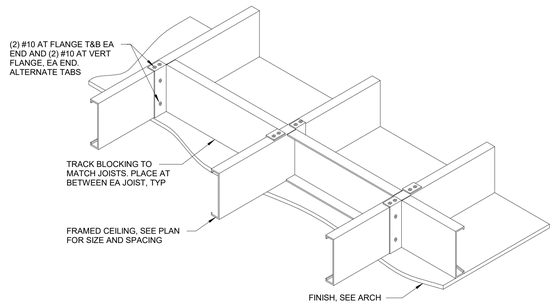
NOTES:
1. 70° MAX ANGLE FROM HORIZONTAL, 30° MIN ANGLE FROM HORIZONTAL.
2. ANGLE FROM HORIZONTAL MIUST BE EQUAL AT ANY PAIR OF TWO OPPOSING BRACES.

7 BRACING AT CEILING/SOFFIT HANGERS
NTS

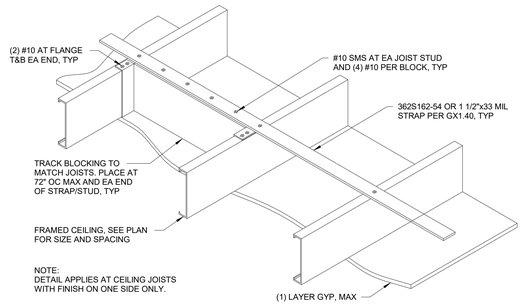


NOTES:
1. ATTACH GYP BOARD TO FRAMING WITH ASTM C1002 TYPE S SCREWS WITH CORROSION RESISTANT TREATMENT AT 12" OC MAX.
2. WHEN GYP BOARD IS TO BE APPLIED TO BOTH CEILING AND WALLS, GYP BORARD SHALL BE APPLIED FIRST TO THE CEILING AND THEM TO THE WALLS IN ACCORDANCE WITH ASTM C840.
3. CEILING IS NOT DESIGNED TO SUPPORT LIVE LOAD.
4. TOTAL ASSEMBLY WEIGHT NOT TO EXCEED 10 PSF.
5. BLOCKING NOT REQUIRED FOR SPANS LESS THAN OR EQUAL TO 8'-0"

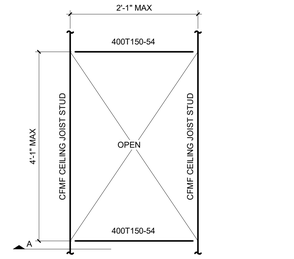
4 TYPICAL CFMF JOIST CEILING MAXIMUM SPAN DETAIL
NTS



3 ALTERNATE CFMF JOIST SOFFIT BRIDGING DETAIL
NTS

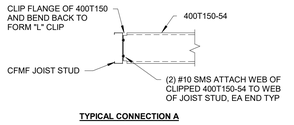


2 TYPICAL CFMF JOIST W/ GYP BOARD CEILING BLOCKING DETAIL
NTS



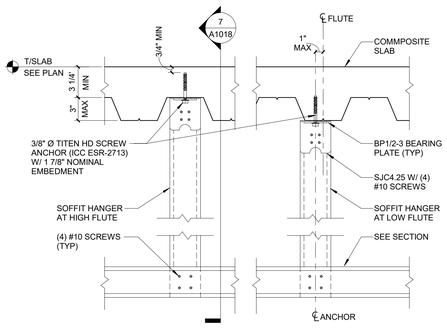
TYPICAL PLAN OPENING

NOTES:
1. COORDINATE EXACT SIZE AND LOCATION OF OPENINGS WITH MEP AND ARCH DRAWINGS AND APPROVED EQUIPMENT.



TYPICAL CONNECTION A

11 TYPICAL CFMF JOIST CEILING OPENING
NTS



8 TYPICAL HANGER AT EXTERIOR SOFFITS
NTS

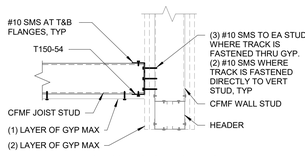


9 TYPICAL SOFFIT FRAMING DETAIL
NTS

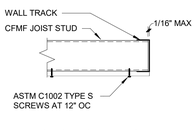
INTERIOR CEILING/SOFFIT FRAMING SCHEDULE					
JOIST SIZE	JOIST SPACING	MAXIMUM SPAN	JOIST SIZE	JOIST SPACING	MAXIMUM SPAN
250S162-33	16" OC	8'-5"	362S162-33	16" OC	11'-2"
	24" OC	7'-4"		24" OC	9'-9"
250S162-43	16" OC	9'-2"	362S162-43	16" OC	12'-2"
	24" OC	8'-0"		24" OC	10'-7"
350S162-33	16" OC	10'-10"	400S162-33	16" OC	12'-0"
	24" OC	9'-6"		24" OC	10'-6"
350S162-43	16" OC	11'-10"	400S162-43	16" OC	12'-0"
	24" OC	10'-4"		24" OC	11'-5"

NOTES:
1. MAXIMUM SPANS BASED ON 10 PSF TOTAL ASSEMBLY LOAD.
2. TOTAL DEFLECTION LIMIT IS L/360.
3. REFER TO SSMA CEILING/SOFFIT SPAN TABLES FOR ADDITIONAL INFORMATION.

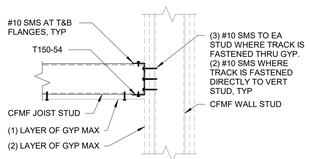
6 052400-CJ1.00B - CEILING/SOFFIT FRAMING SCHEDULE



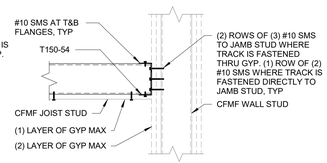
TYPICAL CONNECTION AT OPENING



TYPICAL GYP BOARD ATTACHMENT

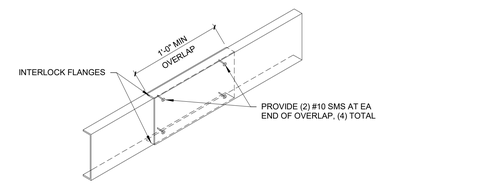


TYPICAL CONNECTION AT STUDS



TYPICAL CONNECTION AT JAMB STUDS

5 TYPICAL CFMF JOIST CEILING WALL CONNECTION DETAILS
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1 TYPICAL METAL JOIST CEILING RUNNER SPLICE DETAIL
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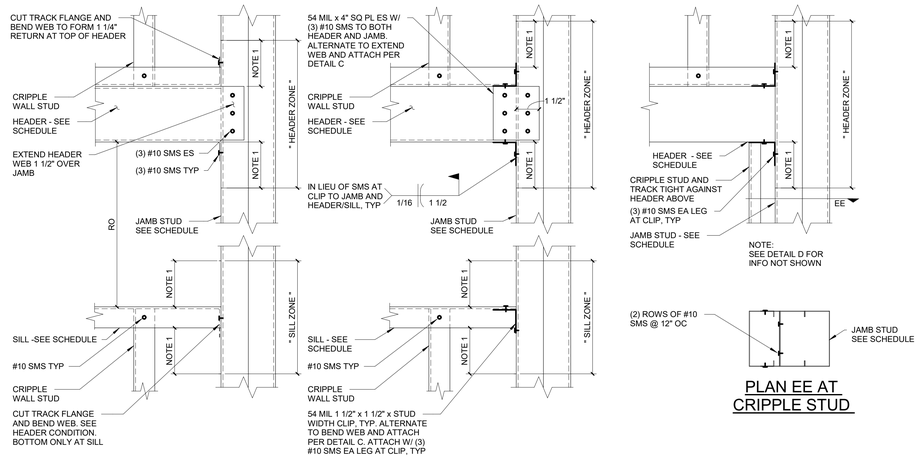
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4'-0"-10'-0" MAX OPENING WIDTH DETAIL "C"

4'-0"-10'-0" MAX OPENING WIDTH ALTERNATE DETAIL "D"

4'-0"-10'-0" MAX DOOR OPENING WIDTH - ALTERNATE DETAIL "E"

PLAN EE AT CRIPPLE STUD

NOTES:
1. NO STUD PUNCHES OR HOLES SHALL OCCUR WITHIN 10" ABOVE OR BELOW THE HEADER OR SILL OR INSIDE THE HEADER OR SILL ZONE.

1 HEADER AND SILL CONNECTION TO JAMB STUD - 4'-0"-10'-0" MAX OPENING WIDTH
3" = 1'-0"

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Rev.	Description	Date
	AGENCY APPROVAL	

ARCHITECT SEAL

LICENSED ARCHITECT
MATTHEW S. GREINER
NO. C27137
REN.: 10-31-2023
STATE OF CALIFORNIA

CONSULTANT SEAL

Drawing Title:

TYPICAL COLD FORMED METAL FRAMING EXTERIOR WALL DETAILS

Issue Date: 01/21/2022

Project No.: 006240.00 Checked by: Checker

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EQUIPMENT SCHEDULE

ROOM NUMBER	ROOM NAME	DESCRIPTION	CFCI	OFCI	OFOI	COMMENTS
1-011	KITCHEN	HOT FOOD WELLS, 3-PAN				
1-306	ISOLATION RM	PATIENT BED	Yes	No	No	
1-311	SEMI-PRIVATE ROOM	PATIENT BED	Yes	No	No	
1-311	SEMI-PRIVATE ROOM	PATIENT BED	Yes	No	No	
1-312	PRIVATE ROOM	PATIENT BED	Yes	No	No	
1-313	SEMI-PRIVATE ROOM	PATIENT BED	Yes	No	No	
1-313	SEMI-PRIVATE ROOM	PATIENT BED	Yes	No	No	
1-314	SEMI-PRIVATE ROOM	PATIENT BED	Yes	No	No	
1-314	SEMI-PRIVATE ROOM	PATIENT BED	Yes	No	No	
1-332	SECLUSION ROOM	PATIENT BED	Yes	No	No	
1-333	PRIVATE ROOM	PATIENT BED	Yes	No	No	
1-334	ACCESSIBLE PRIVATE ROOM	PATIENT BED	Yes	No	No	
1-335	SEMI-PRIVATE ROOM	PATIENT BED	Yes	No	No	
1-335	SEMI-PRIVATE ROOM	PATIENT BED	Yes	No	No	
1-336	PRIVATE ROOM	PATIENT BED	Yes	No	No	
1-337	SEMI-PRIVATE ROOM	PATIENT BED	Yes	No	No	
1-337	SEMI-PRIVATE ROOM	PATIENT BED	Yes	No	No	
1-338	PRIVATE ROOM	PATIENT BED	No	Yes	No	
1-005	TOILET	BABY CHANGING STATION	Yes	No	No	
1-134	MED ROOM	TACK BOARD	No	Yes	No	
1-126	CONFERENCE	WHITE BOARD	No	Yes	No	
1-211	DINING ROOM	TV SPEAKERS	No	Yes	No	
1-211	DINING ROOM	TV SPEAKERS	No	Yes	No	
1-216	GROUP ROOM	TV SPEAKERS	No	Yes	No	
1-216	GROUP ROOM	TV SPEAKERS	No	Yes	No	
1-302	ACTIVITY AREA	TV SPEAKERS	No	Yes	No	
1-302	ACTIVITY AREA	TV SPEAKERS	No	Yes	No	
1-011	KITCHEN	COFFEE MAKER	No	Yes	No	
1-011	KITCHEN	COFFEE MAKER	No	Yes	No	

EQUIPMENT SCHEDULE

ROOM NUMBER	ROOM NAME	DESCRIPTION	CFCI	OFCI	OFOI	COMMENTS
1-123	STAFF BREAK	COFFEE MAKER	No	Yes	No	
1-002	ADMIN CENTER	COMPUTER	No	No	Yes	
1-002	ADMIN CENTER	COMPUTER	No	No	Yes	
1-002	ADMIN CENTER	COMPUTER	No	No	Yes	
1-003	SECURITY	COMPUTER	No	No	Yes	
1-006	ADMIN OFFICE	COMPUTER	No	No	Yes	
1-125	SHARED OFFICE	COMPUTER	No	No	Yes	
1-125	SHARED OFFICE	COMPUTER	No	No	Yes	
1-125	SHARED OFFICE	COMPUTER	No	No	Yes	
1-125	SHARED OFFICE	COMPUTER	No	No	Yes	
1-127	SHARED OFFICE	COMPUTER	No	No	Yes	
1-127	SHARED OFFICE	COMPUTER	No	No	Yes	
1-127	SHARED OFFICE	COMPUTER	No	No	Yes	
1-127	SHARED OFFICE	COMPUTER	No	No	Yes	
1-128	NURSE OFFICE	COMPUTER	No	No	Yes	
1-132	CHARTING	COMPUTER	No	No	Yes	
1-132	CHARTING	COMPUTER	No	No	Yes	
1-132	CHARTING	COMPUTER	No	No	Yes	
1-132	CHARTING	COMPUTER	No	No	Yes	
1-134	MED ROOM	COMPUTER	No	No	Yes	
1-301	TEAM STATION	COMPUTER	No	No	Yes	
1-301	TEAM STATION	COMPUTER	No	No	Yes	
1-301	TEAM STATION	COMPUTER	No	No	Yes	
1-301	TEAM STATION	COMPUTER	No	No	Yes	
1-107	HSKP	DISPENSER, CLEANING SOLUTION	No	Yes	No	
1-134	MED ROOM	DISPENSER, MEDICATION	No	No	Yes	
1-219	LAUNDRY	DRYER	No	Yes	No	TO COMPLY WITH SEC. 11B-214.
1-012	CART & WASTE	CART, UTILITY	No	No	Yes	

EQUIPMENT SCHEDULE

ROOM NUMBER	ROOM NAME	DESCRIPTION	CFCI	OFCI	OFOI	COMMENTS
1-132A	PRINT	PRINTER MFD	No	No	Yes	
1-134	MED ROOM	GLOVE DISPENSER, TRIPLE	No	Yes	No	
1-217	EXAM ROOM	GLOVE DISPENSER, TRIPLE	No	Yes	No	
1-305	ISOLATION VESTIBULE	GLOVE DISPENSER, TRIPLE	No	Yes	No	
1-134	MED ROOM	SHARPS DISPOSAL	No	Yes	No	
1-217	EXAM ROOM	SHARPS DISPOSAL	No	Yes	No	
1-134	MED ROOM	MEDS DISPOSAL, BLACK	No	Yes	No	
1-134	MED ROOM	MEDS DISPOSAL, BLUE	No	Yes	No	
1-134	MED ROOM	CONTROLLED SUBSTANCE DISPOSAL	No	Yes	No	
1-305	ISOLATION VESTIBULE	HAMPER, LINEN	No	No	Yes	
1-217	EXAM ROOM	SCALE	No	No	Yes	
1-101	EQUIP SUPPLY STORAGE	SHELVING, WIRE	No	No	Yes	
1-101	EQUIP SUPPLY STORAGE	SHELVING, WIRE	No	No	Yes	
1-102	GENERAL STORAGE	SHELVING, WIRE	No	No	Yes	
1-102	GENERAL STORAGE	SHELVING, WIRE	No	No	Yes	
1-102	GENERAL STORAGE	SHELVING, WIRE	No	No	Yes	
1-102	GENERAL STORAGE	SHELVING, WIRE	No	No	Yes	
1-102	GENERAL STORAGE	SHELVING, WIRE	No	No	Yes	
1-102	GENERAL STORAGE	SHELVING, WIRE	No	No	Yes	
1-102	GENERAL STORAGE	SHELVING, WIRE	No	No	Yes	
1-102	GENERAL STORAGE	SHELVING, WIRE	No	No	Yes	
1-124	PATIENT BELONGINGS	SHELVING, WIRE	No	No	Yes	
1-124	PATIENT BELONGINGS	SHELVING, WIRE	No	No	Yes	
1-124	PATIENT BELONGINGS	SHELVING, WIRE	No	No	Yes	
1-124	PATIENT BELONGINGS	SHELVING, WIRE	No	No	Yes	
1-124	PATIENT BELONGINGS	SHELVING, WIRE	No	No	Yes	
1-217	EXAM ROOM	STOOL, EXAM	No	No	Yes	
1-217	EXAM ROOM	EXAM TABLE, STATIONARY	No	No	Yes	
1-123	STAFF BREAK	RECYCLE BIN	No	No	Yes	
1-123	STAFF BREAK	WASTE CAN	No	No	Yes	
1-134	MED ROOM	WASTE CAN	No	No	Yes	
1-217	EXAM ROOM	WASTE CAN	No	No	Yes	
1-305	ISOLATION VESTIBULE	WASTE CAN	No	No	Yes	
1-211	DINING ROOM	WHEELCHAIR, ADULT	No	No	Yes	
1-216	GROUP ROOM	WHEELCHAIR, ADULT	No	No	Yes	
1-302	ACTIVITY AREA	WHEELCHAIR, ADULT	No	No	Yes	
1-304	QUIET ACTIVITY	WHEELCHAIR, ADULT	No	No	Yes	
1-001	LOBBY					
1-011	KITCHEN					
1-100	STAFF CORRIDOR					
1-130	STAFF CORRIDOR					
1-210	PATIENT HALLWAY					
1-310	PATIENT HALLWAY					
1-330	PATIENT HALLWAY					
1-105	STAFF TOILET	COAT HOOK	Yes	No	No	
1-105	STAFF TOILET	COAT HOOK	Yes	No	No	
1-106	STAFF TOILET	COAT HOOK	Yes	No	No	
1-106	STAFF TOILET	COAT HOOK	Yes	No	No	
1-011	KITCHEN	ICE MACHINE, COUNTERTOP	No	Yes	No	
1-004	WAITING	LOCKER, 2-TIER	Yes	No	No	
1-004	WAITING	LOCKER, 2-TIER	Yes	No	No	
1-004	WAITING	LOCKER, 2-TIER	Yes	No	No	
1-004	WAITING	LOCKER, 2-TIER	Yes	No	No	
1-004	WAITING	LOCKER, 2-TIER	Yes	No	No	
1-123	STAFF BREAK	LOCKER, 2-TIER	Yes	No	No	
1-123	STAFF BREAK	LOCKER, 2-TIER	Yes	No	No	
1-123	STAFF BREAK	LOCKER, 2-TIER	Yes	No	No	
1-123	STAFF BREAK	LOCKER, 2-TIER	Yes	No	No	
1-123	STAFF BREAK	LOCKER, 2-TIER	Yes	No	No	
1-010	ENTRY CORRIDOR	METAL DETECTOR	No	Yes	No	
1-218	PATIENT TOILET	POLISHED STAINLESS STEEL MIRROR	Yes	No	No	
1-306T	ISOLATION TLT	POLISHED STAINLESS STEEL MIRROR	Yes	No	No	
1-311T	TOILET	POLISHED STAINLESS STEEL MIRROR	Yes	No	No	
1-312T	TOILET	POLISHED STAINLESS STEEL MIRROR	Yes	No	No	
1-313T	TOILET	POLISHED STAINLESS STEEL MIRROR	Yes	No	No	
1-314T	TOILET	POLISHED STAINLESS STEEL MIRROR	Yes	No	No	
1-333T	TOILET	POLISHED STAINLESS STEEL MIRROR	Yes	No	No	
1-334T	ACCESSIBLE TLT	POLISHED STAINLESS STEEL MIRROR	Yes	No	No	
1-335T	TOILET	POLISHED STAINLESS STEEL MIRROR	Yes	No	No	
1-336T	TOILET	POLISHED STAINLESS STEEL MIRROR	Yes	No	No	
1-337T	TOILET	POLISHED STAINLESS STEEL MIRROR	Yes	No	No	
1-338T	TOILET	POLISHED STAINLESS STEEL MIRROR	Yes	No	No	
1-011	KITCHEN	MICROWAVE	No	No	Yes	
1-123	STAFF BREAK	MICROWAVE	No	No	Yes	
1-221	PHONE	WALL PHONE, BH, ACCESSIBLE	Yes	No	No	
1-012	CART & WASTE	RECEPTACLE WASTE MOBILE	No	No	Yes	
1-012	CART & WASTE	RECEPTACLE WASTE MOBILE	No	No	Yes	
1-011	KITCHEN	REFRIGERATOR/FREEZER	No	No	Yes	TO COMPLY WITH SEC. 11B-804.6.6
1-123	STAFF BREAK	REFRIGERATOR/FREEZER	No	No	Yes	TO COMPLY WITH SEC. 11B-804.6.6
1-134	MED ROOM	REFRIGERATOR, UNDERCOUNTER	No	No	Yes	
1-005	TOILET	MIRROR, 17.5" x 29.5"	Yes	No	No	
1-105	STAFF TOILET	MIRROR, 17.5" x 29.5"	Yes	No	No	
1-106	STAFF TOILET	MIRROR, 17.5" x 29.5"	Yes	No	No	
1-005	TOILET	PAPER TOWEL DISPENSER - AUTOMATIC	No	Yes	No	
1-011	KITCHEN	PAPER TOWEL DISPENSER - AUTOMATIC	No	Yes	No	
1-105	STAFF TOILET	PAPER TOWEL DISPENSER - AUTOMATIC	No	Yes	No	
1-106	STAFF TOILET	PAPER TOWEL DISPENSER - AUTOMATIC	No	Yes	No	
1-107	HSKP	PAPER TOWEL DISPENSER - AUTOMATIC	No	Yes	No	
1-123	STAFF BREAK	PAPER TOWEL DISPENSER - AUTOMATIC	No	Yes	No	
1-131	SOILED	PAPER TOWEL DISPENSER - AUTOMATIC	No	Yes	No	
1-134	MED ROOM	PAPER TOWEL DISPENSER - AUTOMATIC	No	Yes	No	
1-301	TEAM STATION	PAPER TOWEL DISPENSER - AUTOMATIC	No	Yes	No	
1-305	ISOLATION VESTIBULE	PAPER TOWEL DISPENSER - AUTOMATIC	No	Yes	No	
1-005	TOILET	SOAP DISPENSER	No	Yes	No	
1-011	KITCHEN	SOAP DISPENSER	No	Yes	No	
1-105	STAFF TOILET	SOAP DISPENSER	No	Yes	No	
1-106	STAFF TOILET	SOAP DISPENSER	No	Yes	No	
1-107	HSKP	SOAP DISPENSER	No	Yes	No	
1-123	STAFF BREAK	SOAP DISPENSER	No	Yes	No	
1-131	SOILED	SOAP DISPENSER	No	Yes	No	
1-134	MED ROOM	SOAP DISPENSER	No	Yes	No	
1-301	TEAM STATION	SOAP DISPENSER	No	Yes	No	
1-305	ISOLATION VESTIBULE	SOAP DISPENSER	No	Yes	No	
1-211	DINING ROOM	TELEVISION	No	Yes	No	
1-216	GROUP ROOM	TELEVISION	No	Yes	No	
1-302	ACTIVITY AREA	TELEVISION	No	Yes	No	
1-126	CONFERENCE	TELEVISION	No	Yes	No	
1-219	LAUNDRY	WASHER WITH LAUNDRY SOAP AUTO DISPENSER	No	Yes	No	TO COMPLY WITH SEC. 11B-214.



1 LEVEL 01 FURNITURE & EQUIPMENT PLAN
1/8" = 1'-0"

FOR REFERENCE ONLY

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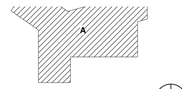
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ARCHITECT SEAL

LICENSED ARCHITECT
MATTHEW S. GREINER
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KEY PLAN

Drawing Title:

LEVEL 01 FURNITURE & EQUIPMENT PLAN

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FINISH LEGEND

SYMBOL	SPEC SECTION	MANUFACTURER	PRODUCT NAME	PRODUCT NUMBER	COLOR	NOTES
ACOUSTICAL PANEL CEILING						
APC-1	095113	CERTAINTEED	SYMPHONY RX F	1342B-RXS-1	WHITE	15/16 GRID
ARCHITECTURAL WALL PANEL						
AWP-1	062023	3FORM	PROFILE PANEL - CHASM		WHITE	VERTICAL PATTERN DIRECTION INSTALL
BASE						
IB-1	096500	LONSEAL	LONWOOD NATURAL (TOPSEAL)		WHISPER	4" INTEGRAL COVE BASE
IB-2	096500	LONSEAL	LONECO LINEN		HEATHER	4" INTEGRAL COVE BASE
IB-3	096500	LONSEAL	LONWOOD NATURAL (TOPSEAL)		SUMMER NIGHT	4" INTEGRAL COVE BASE
IB-4	096500	LONSEAL	LONECO TOPSEAL		ICE CAP	4" INTEGRAL COVE BASE
IB-6	096723	ALTRO	AQUARIUS		VOLE	4" INTEGRAL COVE BASE
PB-1	093000	EMSER TILE	LEGACY		SAND	CUT TO 6" X 8"
PB-2	093000	EMSER TILE	SPLENDID		PERLA	6" X 12" COVE BASE; HONED
RB-1	096513	TARKETT	TRADITIONAL VINYL		BROWN	4"
CARPET						
CPT-1	096813	INTERFACE	NATURALLY WEATHERED		QUICKSAND	ASHLAR INSTALLATION
EXPOSED CEILING						
EXP-1						
FLOOR TRANSITION						
FT-1	096513	TARKETT	SLIM LINE TRANSITIONS	SLT-XX-C	BROWN	
FT-3	096513	TARKETT	COVE CAP	CCC-XX-C	BROWN	
FT-4	096513	TARKETT	SLIM LINE TRANSITIONS	SLT-XX-A	BROWN	
GROUT						
GR-1	093000	MAPEI	EPOXY		BAHAMA BEIGE	USED WITH PT-1
GR-2	093000	MAPEI	EPOXY		BISCUIT	USED WITH PWT-1
GR-3	093000	MAPEI	EPOXY		WARM GRAY	USED WITH PT-2
LUXURY VINYL TILE						
LVT-1	096500	SHAW	SOUNDSCAPE		SAND	ASHLAR INSTALLATION
METAL TRIM						
TR-1	092900	FRY REGLET	CURVED OUTSIDE CORNER		MATCH ADJACENT WALL PAINT	GYP CORNER
TR-2	093000	SCHLUTER	DILEX-AHKA	AHKA100AT	ANODIZED ALUMNUM-SATIN NICKEL	PORCELAIN WALL TILE INSIDE CORNER
TR-3	093000	SCHLUTER	RENO-V	AEVT100	ANODIZED ALUMNUM-SATIN NICKEL	
TR-4	093000	SCHLUTER	DIADEC	DI100	ANODIZED ALUMNUM-SATIN NICKEL	PORCELAIN TILE OUTSIDE CORNER
TR-5	093000	SCHLUTER	SCHIENE	AE60	ANODIZED ALUMNUM-NICKEL	PORCELAIN BASE TILE METAL CAP
TR-6	093000	SCHLUTER	RENO-U	EBU100	ANODIZED ALUMNUM-NICKEL	
MILLWORK						
PLAM-1	064023	WILSONART			FLAX LINEN	VERTICAL SURFACES
PLAM-2	064023	FORMICA			PALOMA POLAR	STAFF COUNTERS
QZ-1	064023	CAMBRIA			FERNDALE	HIGH GLOSS
SSM-1	064023	CORIAN			GLACIER WHITE	
SSM-2	123570	SHIELD	SOLID SURFACE		WHITE	PATIENT ROOM MILLWORK
UPH-1	064023	KNOLL TEXTILES	PRAIRIE	K1925/57	MINERAL	ARCHITECTURAL MILLWORK BENCH
PAINT						
PNT-1	099123	SHERWIN WILLIAMS	EGGSHELL	SW 7042	SHOJI WHITE	FIELD
PNT-2	099123	SHERWIN WILLIAMS	EGGSHELL	SW 6121	WHOLE WHEAT	
PNT-3	099123	SHERWIN WILLIAMS	EGGSHELL	SW 9131	CORNWALL SLATE	
PNT-4	099123	SHERWIN WILLIAMS	EGGSHELL	SW 6430	GREAT GREEN	
PNT-5	099123	SHERWIN WILLIAMS	EGGSHELL	SW 6432	GARDEN SPOT	
PNT-6	099123	SHERWIN WILLIAMS	CHALK PAINT		BLACK	
PNT-7	099123	SHERWIN WILLIAMS	EPOXY	SW 7042	SHOJI WHITE	
PNT-8	099600	SCUFFMASTER	SCRUBTOUGH MAX			MATCH PNT-1
PORCELAIN WALL TILE						
PWT-1	093000	EMSER TILE	SPLENDID		PERLA	12" X 24" MATTE FINISH; VERTICAL ASHLAR INSTALL
RESILIENT FLOOR						
RS-1	096500	LONSEAL	LONWOOD NATURAL (TOPSEAL)		WHISPER	
RS-2	096500	LONSEAL	LONECO LINEN		HEATHER	
RS-3	096500	LONSEAL	LONWOOD NATURAL (TOPSEAL)		SUMMER NIGHT	
RS-4	096536	LONSEAL	LONECO TOPSEAL		ICE CAP	
RS-5	096500	ALTRO	AQUARIUS		VOLE	
SAFETY PADDING						
SP-1	117313	GOLD MEDAL	SAFETY PADDING		TAN	SECLUSION ROOM
SEALED CONCRETE						
SC-1	033500					
TILE						
PT-1	093000	EMSER TILE	LEGACY		SAND	47" X 8"
PT-2	093000	EMSER TILE	SPLENDID		DELORIAN GREY	12" X 12"
WALL COVERING						
WC-1	097216	ALTRO	WHITEROCK		CREAM/LINEN	HEAT WELD SEAM; HEAT-FORMED INSIDE AND OUTSIDE CORNERS
WALL PROTECTION						
CG-1		ACROVYN	CORNER GUARD	SM-10N	PEARL	FULL HEIGHT
WP-1	102600	ACROVYN	BUMPER MOUNT	BCR-40	PEARL	4" PROFILE; MOUNTED DIRECTLY ABOVE FLOOR BASE
WP-2	102600	ACROVYN	BUMPER MOUNT	BCR-40	PEARL	MOUNTED 3' AFF
WP-3	102600	ACROVYN	RIGID SHEET .040"		PEARL	SUEDE TEXTURE; HEIGHT 4'
WP-4	102600	ACROVYN	RIGID SHEET .040"		PEARL	SUEDE TEXTURE; HEIGHT TO TOP OF DOOR FRAME
WP-5	102600	ACROVYN			PEARL	COMBINATION WP-1 & WP-2
WINDOW SHADE						
WS-1		MECHOSHADE	THERMOVEIL DENSE BASKET WEAVE 1500 SERIES		EGGSHELL	STAFF LOUNGE & OFFICES

1. SEE A1200 FOR CODE TO FINISHES.
2. SEE A1200 FOR DESCRIPTION OF ABBREVIATED REFERENCES INDICATED IN FINISH AND ELEVATION SHEETS.
3. WHEN NOTED, REFER TO TYPICAL ROOM TYPE FOR MORE FINISH INFORMATION.
4. RESILIENT FLOORING TO EXTEND UNDER ALL ADJACENT CASEWORK. FIELD COORDINATE ALL FIELD ROUTED PIPE, CONSUIT RUNS, ETC. WITH LOCATIONS OF RECESSED ACCESSORIES AND EQUIPMENT. IN THE EVENT OF A CONFLICT, ACCESSORY LOCATIONS TAKE PRECENDENCE.
5. 1" THICK SOLID SURFACE WINDOW SILL.
6. REFER TO ELEVATIONS FOR WALL PROTECTION SHEET MATERIAL HEIGHTS.
7. ALL PAINT TO HAVE EGGSHELL FINISH, UNLESS NOTED OTHERWISE.
8. RESILIENT BASE TO BE INSTALLED AT ALL TOE-KICKS OF CABINETRY AND ALONG FINISHED AND EXPOSED ENDS, UNLESS NOTED OTHERWISE.
9. SEE INTERIOR ELEVATIONS FOR ADDITIONAL FINISH INFORMATION.
10. SEE A1201 FOR ROOM FINISH SCHEDULE FOR ADDITIONAL FINISH INFORMATION.
11. ALL PAINTED WALLS TO RECEIVE PNT-1, UNLESS NOTED OTHERWISE.
12. HEAT-WELD ALL RESILIENT ROLLED SHEET WITH WELDING ROD COLOR TO MATCH DARKER FLOORING WHEN DIFFERENT FLOOR COLORS MEET, UNLESS NOTED OTHERWISE.
13. CONTROL JOINTS TO BE PROVIDED EVERY 30' - 0" AT GYP WALLS. ALIGN WITH DOOR JAMBS WHEN POSSIBLE.
14. ALIGN ALL GROUT JOINTS FOR PORCELAIN AND CERAMIC TILE, FLOOR TO WALL, UNLESS NOTED OTHERWISE.
15. FREESTANDING COLUMNS WILL RECEIVE THE SAME FINISHES AS THE NEAREST ADJACENT WALL, UNLESS NOTED OTHERWISE.
16. ALL FLOOR MATERIAL CHANGES ARE TO OCCUR AT THE CENTERLINE OF CLOSED DOOR. AT TRANSITIONS WHERE THERE IS NO DOOR, INSTALL AS INDICATED ON THE FLOOR PATTERN PLAN.
17. ALL CARPET TO BE APPLIED WITH MANUFACTURER TAC-TILE SYSTEM, UNLESS NOTED OTHERWISE.
18. METAL TRIM AT ALL TILE TRANSITIONS AND ENDS.
19. SLIM PROFILE RUBBER TRANSITION STRIPS IN LEVEL 1 AREAS OF RISK, UNLESS NOTED OTHERWISE.
20. REFER TO INTERIOR ELEVATIONS FOR "VARIES" OR "ELEV" FOR FINISH APPLICATION INFORMATION.
21. ALL PAINTED FINISHES TO TERMINATE AT INSIDE CORNER, UNLESS NOTED OTHERWISE.
22. ALL TOILET ROOM WALL PANELS TO BE HEAT FORMED AT INSIDE AND OUTSIDE CORNERS. REFER TO INTERIOR ELEVATIONS FOR SEAM LOCATIONS.
23. ALL WINDOWS IN LEVEL 1 AREAS OF RISK TO RECEIVE ROLLER WINDOW SHADE. SEE RCP FOR MORE INFORMATION.
24. CURVED GYPSUM TRIM TO BE APPLIED AT ALL EXPOSED CORNERS IN LEVELS 2-5 AREAS OF RISK.
25. CURVED GYPSUM TRIM, CORNER GUARDS, AND RIGID SHEET GOODS TO MATCH WALL PAINT COLOR, UNLESS NOTED OTHERWISE.
26. ARCHITECTURAL WALL PANELS TO RECEIVE FACTORY FINISH WRAPPED EDGE ON ALL SIDES.
27. HOLLOW METAL FRAMES TO MATCH APPLIED PAINT ON THE WALL.
28. PLAM-2 TO BE PLACED ON HORIZONTAL SURFACES IN LEVEL 1 AREAS OF RISK WHERE SINKS ARE NOT LOCATED, UNLESS NOTED OTHERWISE.
29. ALL PATIENT ROOM TOILET ROOMS TO RECEIVE RUBBER SHOWER TRANSITION TRIM.
30. REFER TO FLOOR PATTERN PLAN FOR DIRECTION INSTALL OF WOOD GRAIN RESILIENT SHEET.
31. PAINT TO WRAP SOFFIT.
32. PORCELAIN TILE BASE TO RECEIVE ACCOMPANYING MANUFACTURER PRODUCT LINE INSIDE AND OUTSIDE CORNER, UNLESS NOTED OTHERWISE.
33. WP-3 TO ALIGN WITH COUNTER BACKSPLASH AND ALL ADJACENT WALLS IN THE ROOM, UNLESS NOTED OTHERWISE.

GENERAL FINISH NOTES

1/2" = 1'-0"

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AGENCY APPROVAL

ARCHITECT SEAL

LICENSED ARCHITECT
MATTHEW S. GREINER
NO. C27137
REN.: 10-31-2023
STATE OF CALIFORNIA

CONSULTANT SEAL

Drawing Title:

GENERAL FINISH NOTES & MATERIAL LEGEND

Issue Date: 01/21/2022

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ROOM FINISH SCHEDULE

Name	Floor Finish	BASE	Wall Finish	CEILING	COMMMENTS/ SPECIAL ITEMS
LOBBY	PT-1	PB-1	PNT-1	WPC-1	
ADMIN CENTER	LVT-1	RB-1	VARIES	WPC-1	ARCHITECTURAL WALL PANEL, QUARTZ MILLWORK ACCENTS
SECURITY	LVT-1	RB-1	PNT-1,2	WPC-1	
WAITING	PT-1	PB-1	PNT-1	WPC-1	
TOILET	PT-1	PB-2	VARIES	PNT-1	
ADMIN OFFICE	CPT-1	RB-1	PNT-1,4	WPC-1	
ENTRY CORRIDOR	RS-1	IB-1	PNT-1	WPC-1	
KITCHEN	RS-1	IB-1	PNT-8	PNT-7	
CART & WASTE	RS-1	IB-1	PNT-8	PNT-7	
STAFF CORRIDOR	LVT-1	RB-1	PNT-1,3	ACT-1	
EQUIP SUPPLY STORAGE	RS-4	RB-1	VARIES	PNT-1	
GENERAL STORAGE	RS-4	RB-1	VARIES	PNT-1	
WASTE	RS-4	IB-4	VARIES	PNT-7	
IT/DATA	SC-1	RB-1	PNT-1	PNT-1	
STAFF TOILET	PT-1	PB-1,2	VARIES	PNT-1	
STAFF TOILET	PT-1	PB-1,2	VARIES	PNT-1	
HSKP	RS-4	IB-4	VARIES	PNT-7	
STAFF CORRIDOR	LVT-1	RB-1	PNT-1,3	ACT-1	
STAFF BREAK	LVT-1	RB-1	PNT-1,4	ACT-2	
PATIENT BELONGINGS	RS-4	RB-1	VARIES	ACT-1	
SHARED OFFICE	CPT-1	RB-1	PNT-1,5	ACT-2	
CONFERENCE	CPT-1	RB-1	PNT-1,4	ACT-1	
SHARED OFFICE	CPT-1	RB-1	PNT-1,5	ACT-2	
NURSE OFFICE	CPT-1	RB-1	PNT-1,5	ACT-2	
STAFF CORRIDOR	LVT-1	RB-1	PNT-1,3	ACT-1	
SOILED	RS-4	IB-4	VARIES	PNT-7	
CHARTING	LVT-1	RB-1	PNT-1	ACT-1	
PRINT	LVT-1	RB-1	PNT-1	ACT-1	
CLEAN	RS-4	RB-1	VARIES	ACT-1	
MED ROOM	RS-1	RB-1	PNT-1	ACT-1	
MECH	SC-1	RB-1	PNT-8	PNT-1	
ELECTRICAL	SC-1	RB-1	PNT-8	PNT-1	
EMERGENCY ELECTRICAL	SC-1	RB-1	PNT-8	PNT-1	
FIRE RISER					
FACP CLOSET					
SALLYPORT	RS-1	IB-1	PNT-1	WPC-1	
PATIENT HALLWAY	RS-1,2	IB-1,2	PNT-1	ACT-1	
DINING ROOM	RS-1	IB-1	PNT-1	WPC-1	
NOURISH	RS-1	IB-1	PNT-1	WPC-1	
CONSULT/ ASSESSMENT	RS-1	IB-1	PNT-1,2	PNT-1	
CONSULT ROOM	RS-1	IB-1	PNT-1,2	ACT-1	
VISIT/ CONSULT	RS-1	IB-1	PNT-1,2	ACT-1	
GROUP ROOM	RS-1	IB-1	PNT-1	WPC-1	
EXAM ROOM	RS-1	IB-1	VARIES	ACT-1	
PATIENT TOILET	RS-6	IB-6	PNT-7	PNT-7	
LAUNDRY	RS-1	IB-1	PNT-7	PNT-7	
QUIET ROOM	RS-1,2	IB-1,2	PNT-1,2	PNT-1	
PHONE	RS-2	IB-2	PNT-1	PNT-1	
PATIENT HALLWAY	RS-1,2	IB-1,2	PNT-1	ACT-1	
TEAM STATION	LVT-1	RB-1	PNT-1,3	ACT-1	
ACTIVITY AREA	RS-2,3	IB-3	PNT-1	ACT-1	
QUIET ACTIVITY	RS-2,3	IB-3	PNT-1,6	ACT-1	
ISOLATION VESTIBULE	RS-2	IB-2	PNT-1	PNT-1	
ISOLATION RM	RS-1,2	IB-1,2	PNT-1,5	PNT-1	
ISOLATION TLT	RS-6	IB-6	VARIES	PNT-7	
PATIENT HALLWAY	RS-1,2	IB-2	PNT-1	ACT-1	
SEMI-PRIVATE ROOM	RS-1,2	IB-1,2	PNT-1,5	PNT-1	
TOILET	RS-6	IB-6	VARIES	PNT-7	
PRIVATE ROOM	RS-1,2	IB-1,2	PNT-1,5	PNT-1	
TOILET	RS-6	IB-6	VARIES	PNT-7	
SEMI-PRIVATE ROOM	RS-1,2	IB-1,2	PNT-1,5	PNT-1	
TOILET	RS-6	IB-6	VARIES	PNT-7	
SEMI-PRIVATE ROOM	RS-1,2	IB-1,2	PNT-1,5	PNT-1	
TOILET	RS-6	IB-6	VARIES	PNT-7	
PATIENT HALLWAY	RS-1,2	IB-2	PNT-1	ACT-1	
SECLUSION VESTIBULE	RS-6	IB-6	SP-1	PNT-7	
SECLUSION TLT	RS-6	IB-6	AWP-1	PNT-7	
SECLUSION ROOM	RS-6	IB-6	SP-1	PNT-7	
PRIVATE ROOM	RS-1,2	IB-1,2	PNT-1,5	PNT-1	
TOILET	RS-6	IB-6	VARIES	PNT-7	
ACCESSIBLE PRIVATE ROOM	RS-1,2	IB-1,2	PNT-1,5	PNT-1	
ACCESSIBLE TLT	RS-6	IB-6	VARIES	PNT-7	
SEMI-PRIVATE ROOM	RS-1,2	IB-1,2	PNT-1,5	PNT-1	
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PRIVATE ROOM	RS-1,2	IB-1,2	PNT-1,5	PNT-1	
TOILET	RS-6	IB-6	VARIES	PNT-7	
ACTIVITY / RECREATION COURTYARD	N/A	N/A	N/A	N/A	

1. SEE A1200 FOR CODE TO FINISHES.
2. SEE A1200 FOR DESCRIPTION OF ABBREVIATED REFERENCES INDICATED IN FINISH AND ELEVATION SHEETS.
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4. RESILIENT FLOORING TO EXTEND UNDER ALL ADJACENT CASEWORK. FIELD COORDINATE ALL FIELD ROUTED PIPE, CONSUIT RUNS, ETC. WITH LOCATIONS OF RECESSED ACCESSORIES AND EQUIPMENT. IN THE EVENT OF A CONFLICT, ACCESSORY LOCATIONS TAKE PRECENDENCE.
5. 1" THICK SOLID SURFACE WINDOW SILL.
6. REFER TO ELEVATIONS FOR WALL PROTECTION SHEET MATERIAL HEIGHTS.
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14. ALIGN ALL GROUT JOINTS FOR PORCELAIN AND CERAMIC TILE, FLOOR TO WALL, UNLESS NOTED OTHERWISE.
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18. METAL TRIM AT ALL TILE TRANSITIONS AND ENDS.
19. SLIM PROFILE RUBBER TRANSITION STRIPS IN LEVEL 1 AREAS OF RISK, UNLESS NOTED OTHERWISE.
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1/2" = 1'-0"

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Drawing Title:

ROOM FINISH SCHEDULE

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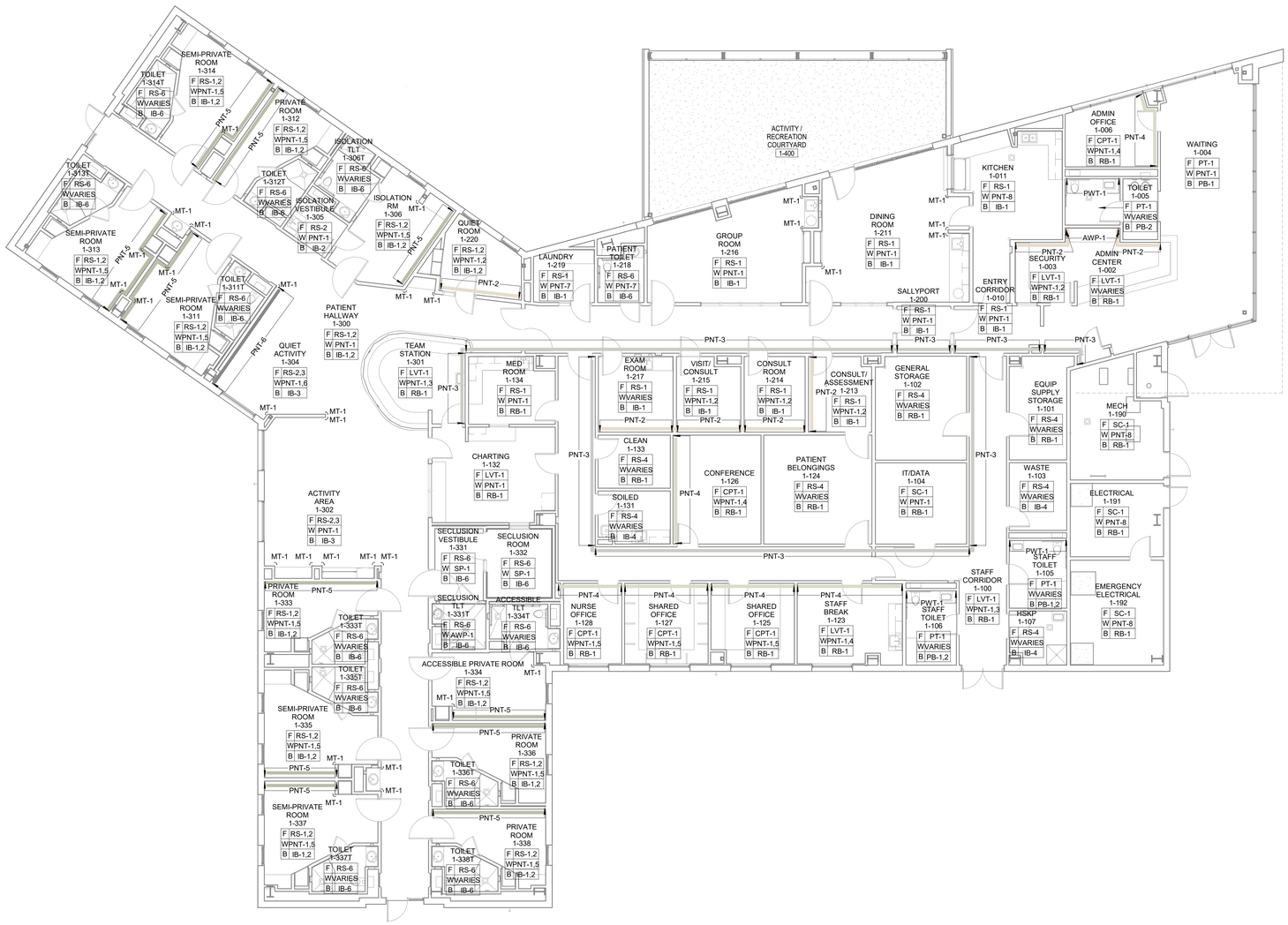
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1 LEVEL 01 FINISH PLAN
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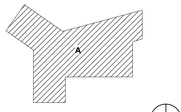
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CONSULTANT SEAL



KEY PLAN

Drawing Title:

LEVEL 01 FINISH PLAN

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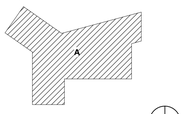
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KEY PLAN

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LEVEL 01 FLOOR PATTERN PLAN

Issue Date: 01/21/2022
Project No.: 006240.00 Checked by: Checker

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1 LEVEL 01 WALL PROTECTION PLAN
1/8" = 1'-0"

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	ISSUE FOR PLAN REVIEW BACKCHECK	21 JAN 2022
	ISSUE FOR PLAN REVIEW	27 OCT 2021
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	AGENCY APPROVAL	

ARCHITECT SEAL

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MATTHEW S. GREINER
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STATE OF CALIFORNIA

CONSULTANT SEAL

Drawing Title:

LEVEL 01 WALL PROTECTION PLAN

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10 DOMESTIC WATER PIPE SIZING CALCS.

-AVAILABLE PRESSURE AT POINT OF CONNECTION = 115 PSI - PRESSURE REGULATING VALVE REDUCTION = 80 PSI
-BUILDING DEMAND = 408.5 WSFU = 127 GPM

-PRESSURE LOSSES IN BUILDING:
-WATER METER = 2 PSI
-BACKFLOW PREVENTER = 12 PSI
-ELEVATION LOSS = 17.5' X .433 PSI/FT = 7.5 PSI
-PRESSURE LOSSES IN BUILDING = 21.5

-PRESSURE AVAILABLE = 80 PSI - 21.5 PSI = 58.5 PSI

-PRESSURE REQUIRED AT MOST HYDRAULICALLY REMOTE FIXTURE = 35 PSI

-PRESSURE AVAILABLE FOR FRICTION LOSS = 58.5 PSI - 35 PSI = 23.5 PSI
-EQUIVALENT LENGTH OF LONGEST PIPE RUN = 384 FT
- 23.5 PSI * 100/384 FT = 6.1 PSI/100 FT FRICTION LOSS MAX.

-DOMESTIC WATER PIPING SIZED AT 8 FPS MAX. VELOCITY @ 6.1 PSI/100 FT MAX. FRICTION LOSS @ 127 GPM = 3" TYPE 'L' COPPER

SIZE	GPM	CW FT. WSFU	HW FT. WSFU	FV WSFU
1/2"	2	2	2	--
3/4"	5.5	6	6	--
1"	10	14	14	--
1-1/4"	18	27	27	5
1-1/2"	27	45	45	10
2"	58 (47 HW)	165	115	70
2-1/2"	100 (72 HW)	375	230	250
3"	160 (110 HW)	700	425	625
4"	280 (180 HW)	1600	800	1600

DOMESTIC COLD WATER PIPING SIZED AT 8 FPS MAXIMUM VELOCITY.
DOMESTIC HOT WATER PIPING SIZED AT 5 FPS MAXIMUM VELCOITY.

FIXTURE	CW WSFU	HW WSFU
WATER COOLER	0.5	--
LAVATORY	1	1
SHOWER	2	2
SINK	1.5	1.5
HOSE BIBB OR WALL HYDRANT	2.5	--
MOP SINK	3	3
CLOTHES WASHER	4	4
DISHWASHER	1.5	1.5
WATER CLOSET	5	--

8 GENERAL NOTES

1. ALL VALVES SHALL BE READILY ACCESSIBLE FROM A SAFE HEIGHT ON A SIX FOOT LADDER AND TO BE CLEAR OF ALL OBSTRUCTIONS. OPERATION SHALL NOT BE ENCUMBERED BY ANY DEVICE OR EQUIPMENT.
2. ALL WATER PIPING SUPPLYING FIXTURES FROM WALLS OR CHASES SHALL BE PIPED FROM A FULL SIZED HORIZONTAL MANIFOLD. VERTICAL BRANCHES FROM THE MANIFOLD, INCLUDING AIR CHAMBERS, SHALL BE ONE PIPE SIZE LARGER THAN THE SIZE INDICATED UNDER "CONNECTIONS" OF THE FIXTURE SPECIFICATIONS. SEE PLANS FOR SUPPLY PIPE SIZING TO WALLS OR CHASES.
3. COORDINATE INSTALLATION OF NEW PIPING WITH EXISTING BUILDING STRUCTURE, DUCTWORK, PIPING, ELECTRICAL CONDUIT, LIGHTING, ETC.
4. REFER TO ARCHITECTURAL ELEVATION DRAWINGS FOR LOCATION OF WALL MOUNTED MECHANICAL ITEMS.
5. THIS PLAN IS APPROVED FOR WORK INDICATED PER THE APPLICABLE DRAWINGS AND SPECIFICATIONS ONLY. ALL OTHER AREAS SHOWN ARE FOR REFERENCE ONLY AND SHALL NOT BE CONSIDERED OR APPROVED TO BE IN ACCORDANCE WITH APPLICABLE CODES OR AUTHORITY HAVING JURISDICTION.
6. NOT ALL PIPING AND SIZES ARE SHOWN ON THE DRAWINGS FOR CLARITY. REFER TO STACK DIAGRAMS AND WATER RISERS FOR ADDITIONAL PIPING AND SIZES.
7. THE SPACE ABOVE THE CEILING IS LIMITED AND THE INSTALLATION OF WORK WILL BE TIGHT. DUE TO THIS, IT IS IMPORTANT THAT THE TRADE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THEIR WORK WITH THE CEILING SYSTEM HEIGHT AND CONSTRUCTION, THE STRUCTURAL SYSTEM, THE LIGHTING FIXTURES, THE SPRINKLER HEADS / MAINS AND THE PLUMBING PIPES. ROUTE PIPING AS HIGH AS POSSIBLE. MAINTAIN PROPER SERVICE ACCESS CLEARANCE. ACCURATE SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL, PRIOR TO FIELD INSTALLATION.
8. DO NOT INSTALL ANY NEW WORK DIRECTLY ABOVE ANY ELECTRICAL PANELS AND TRANSFORMERS.
9. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND MAY NOT SHOW EXACT ROUTING OR ALL REQUIRED OFFSETS, ACCESSORIES OR APPURTENANCES. CONTRACTOR IS TO COORDINATE AS REQUIRED TO INSTALL A COMPLETE AND COORDINATED JOB, INCLUDING ANY ADDITIONAL ITEMS REQUIRED TO MEET ACTUAL FIELD CONDITIONS AND ACTUAL EQUIPMENT SELECTED.
10. FOR EXACT LOCATION OF EQUIPMENT AND FIXTURES, SEE ARCHITECTURAL DRAWINGS.
11. NO EQUIPMENT OR DEVICE REQUIRING REGULAR ACCESS OR MAINTENANCE SHALL BE INSTALLED IN AN INACCESSIBLE CEILING CAVITY. LOCATE SUCH ITEMS ABOVE ACOUSTIC TILE CEILINGS WHEREVER POSSIBLE. IF ANY SUCH ITEMS ARE REQUIRED TO BE INSTALLED ABOVE DRYWALL CEILINGS, PROVIDE AN ACCESS PANEL OR PANELS SIZED AND LOCATED TO PROVIDE SUFFICIENT ACCESS FOR EQUIPMENT SERVICE. SUBMIT LAYOUT OF ALL REQUIRED ACCESS PANELS FOR ARCHITECTS REVIEW AND APPROVAL PRIOR TO THE ONSET OF INSTALLATION.
13. THE ENTIRE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE 2019 CALIFORNIA FIRE CODE, 2019 CALIFORNIA PLUMBING CODE, 2019 CALIFORNIA BUILDING CODE AND ALL OTHER APPLICABLE CODES AND REGULATIONS.
1.
14. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR WALL AND PARTITION CONSTRUCTION AND THICKNESS WHERE PLUMBING PIPING, VALVES OR EQUIPMENT ARE INDICATED.
15. COORDINATE ALL LOCATIONS, SIZES AND ELEVATIONS OF ALL SLEEVES THROUGH STRUCTURE WITH STRUCTURAL AND ARCHITECTURAL DRAWINGS.
16. REFER TO ACOUSTIC ENGINEERS REQUIREMENTS FOR PROVISIONS ON PLUMBING SYSTEMS WHERE SOUND AND VIBRATION ISOLATION IS REQUIRED.
17. ANY PIPING LOCATED WITHIN PLENUM SPACES SHALL COMPLY WITH CALIFORNIA MECHANICAL CODE SECTION 602.2 REQUIREMENTS.
18. PROVIDE AN AUTOMATIC TRAP PRIMER ON ALL DRAINS AS REQUIRED BY SECTION 418.3 OF THE 2019 CALIFORNIA PLUMBING CODE.
19. PROVIDE DRIP PANS IN ACCORDANCE WITH DETAIL 7/P0602 FOR ANY WATER, CONDENSATE OR SEWER PIPE LOCATED ABOVE OR IN ROOMS CONTAINING SENSITIVE ELECTRICAL EQUIPMENT ESSENTIAL TO THE OPERATION OF THE BUILDINGS.

7 SCOPE OF WORK

- PROVIDE DOMESTIC WATER, SANITARY SEWER AND STORM SEWER SYSTEMS FOR THE TCMC BUILDING IN COMPLIANCE WITH 2019 CALIFORNIA PLUMBING CODE REQUIREMENTS.

6 GENERAL SEISMIC NOTES

1. FIXED EQUIPMENT IS DEFINED AS EQUIPMENT WHICH IS ANCHORED TO THE STRUCTURE. EQUIPMENT MUST BE ANCHORED IF IT IS PERMANENTLY ATTACHED TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS, OR WATER. I.E.: TANKS AND VESSELS (INCLUDE CONTENTS). INCLUDING SUPPORT SYSTEMS AND ANCHORAGE. ELECTRICAL, MECHANICAL, AND PLUMBING EQUIPMENT, AND ASSOCIATED CONDUIT, DUCTWORK AND PIPING, AND MACHINERY. THIS ANCHORAGE INCLUDES BUT IS NOT LIMITED TO WATER HEATERS, FREE-STANDING METAL STACKS, FLUES AND VENTS, AHU'S, PACKAGED AC EQUIPMENT, FANS AND BLOWERS, WATER STORAGE TANKS, PLUMBING FIXTURES, PUMPS AND MOTORS, FUEL GAS SYSTEMS, STORAGE TANKS, REHEAT COILS AND AIR TERMINAL DEVICES IF 20LBS OR MORE, FIRE PROTECTION SYSTEMS, ELECTRICAL POWER AND LIGHT SYSTEMS, CONDUIT AND BUS DUCTS, TRANSFORMERS, SWITCH GEARS, PANEL BOARDS, LIGHT FIXTURES, EMERGENCY POWER AND LIGHT, MOTOR GENERATOR SETS, BATTERY PACKS, UPS, ETC.
2. THE SUB-CONTRACTOR SHALL SUBMIT THE ANCHORAGE DETAILS AND CALCULATIONS FOR THOSE ITEMS NOT SHOWN ON THE DRAWINGS TO THE STUCTURAL ENGINEER OF RECORD. DETAILS AND CALCULATIONS TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW (ALLOW 4-WEEK REVIEW PERIOD). FOR ALL SUBSTITUTED EQUIPMENT THAT IS GREATER IN WEIGHT OR VARIES MORE THAN 10% IN LENGTH, HEIGHT, OR WIDTH FROM THE DSA APPROVED DETAILS. FOLLOWING THE REVIEW BY THE STRUCTURAL ENGINEER OF RECORD, THE SUB-CONTRACTOR SHALL SUBMIT THE ANCHORAGE DETAILS AND CALCULATIONS TO THE ARCHITECT (THIS SHALL BE DONE AT LEAST 12 WEEKS PRIOR TO THE SCHEDULED EQUIPMENT INSTALLATION). THE SUB-CONTRACTOR'S STRUCTURAL ENGINEER SHALL PARTICIPATE IN ALL BACK-CHECKING PROCEDURES.
3. THE CALCULATIONS AND DETAILS SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD SHALL BE SEALED AND SIGNED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA. THE CALCULATIONS SHALL DEMONSTRATE THE FOLLOWING.
   A. THE ADEQUACY OF ANCHORAGE UNDER ALL APPLICABLE LOAD CONDITIONS PRESCRIBED BY THE UNIFORM BUILDING CODE.
   B. THE STRUCTURAL ELEMENTS WHICH ARE RESISTING THE ANCHORAGE LOADS, SUCH AS CONCRETE FILL ON METAL DECK AND STEEL BEAMS, AND NOT STRESSED BEYOND.
4. FOR ALL VIBRATION ISOLATORS AND THEIR ANCHORAGES, THE SUB-CONTRACTOR SHALL PROVIDE CALCULATIONS, DETAILS, AND/OR TEST DATA TO SUBSTANTIATE THE ISOLATOR'S CAPACITY FOR VERTICAL AND LATERAL LOADS. CALCULATIONS MUST ALSO BE SUBMITTED (WHETHER PRE-APPROVED OR NOT) OR SUBSTANTIATE THE SIZE, QUANTITY, LOCATION, AND CONNECTION TO STRUCTURE OF THE ISOLATOR. THE DRAWINGS MUST BE CLOSELY COORDINATED WITH THE CALCULATIONS AND CLEARLY SPECIFY THE MANUFACTURER, EACH PIECE OF EQUIPMENT AND HOW IT IS ATTACHED TO THE STRUCTURE ISOLATORS WHICH SUPPORT A COMPONENT INSIDE THE ACTUAL UNIT (BLACK BOX) WILL NOT BE REVIEWED.
5. WHERE CONCRETE AND MASONRY EXPANSION OR ADHESIVE TYPE ANCHORS ARE USED, THE ANCHORAGE DETAILS AND CALCULATIONS SHALL INDICATE MANUFACTURER ICBO REPORT NO. TYPE, DIAMETER, MINIMUM EMBEDMENT, CONCRETE TYPE(S), AND STRENGTH(S).
6. WHEN INSTALLING DRILLED-IN ANCHORS IN EXISTING NON-PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. LOCATE REIN-FORCEMENT BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHORS AND/OR PIN.
7. NO POWDER DRIVEN FASTENERS AND/OR SHOT PINS ARE ALLOWED FOR HANGING OF DUCTWORK AND PIPING SYSTEMS.
8. ALL EXPANSION ANCHORS (LOADED IN PULLOUT OR SHEAR) SHALL HAVE 50% OF THE BOLTS TESTED. IF ANY ANCHOR FAILS TESTING, TEST ALL ANCHORS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL 20 CONSECUTIVE PASS, THEN RESUME THE INITIAL TESTING FREQUENCY. TESTING SHALL OCCUR 24 HOURS MINIMUM AFTER INSTALLATION OF THE SUBJECT ANCHORS, IN ACCORDANCE WITH 1R19-1.
9. THE STRUCTURAL ENGINEER OF RECORD (SEOR) SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

5 MEP COMPONENT ANCHORAGE NOTES

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE. WITH DETAILS SHOWN ON PLAN DESIGN FORCES PER SECTION 13.3 OF ASCE 7-10 IS NOT REQUIRED. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUITED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.6, AND 2019 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCUTRE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON PREPARED INSTALLATION GUIDE (E.G., SMACNA OR OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

PLUMBING PIPING - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

PLUMBING PIPING - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM#) # 0043-13, 0052-13, 0294-13, OR 0295-13.

3 APPLICABLE CODES, STANDARDS, AND ORDINANCES

AHJ	CODE, STANDARD, OR ORDINANCE
1	2019 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
1	2019 GREEN CALIFORNIA BUILDING STANDARDS, CalGREEN CODE, TITLE 24, PART 1
1	2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
1	2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
1	2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.
1	2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
1	2019 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.
1,2	2019 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 C.C.R.
1	2019 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
1,2	TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
1	STANDARDS FOR ACCESSIBLE DESIGN

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13	AUTOMATIC SPRINKLER SYSTEMS (2016 EDITION)
NFPA 20	STATIONARY PUMPS (2016 EDITION)
NFPA 24	PRIVATE FIRE MAINS (CA AMENDED) (2016 EDITION)
NFPA 25	CALIFORNIA EDITION - INSPECTION, TESTING, AND MAINTENANCE OF WATER BASED FIRE PROTECTION SYSTEMS (2016 EDITION)
NFPA 72	NATIONAL FIRE ALARM CODE (CA AMENDED) (2016 EDITION)
NFPA 80	FIRE DOOR AND OTHER OPENING PROTECTIVES (2016 EDITION)

REFERENCE CODE SECTION FOR NFPA STANDARDS - 2016-CBC (SFM) CHAPTER 35

4 CALIFORNIA PLUMBING CODE NOTES

1. THIS BUILLDING IS A OSHPD 5 BUILDING AND SHALL BE IN ACCORDANCE WITH ALL CALIFORNIA PLUMBING CODE REQUIREMENTS FOR SUCH TYPE BUILDING.
2. CONTRACTOR SHALL FURNISH AND INSTALL ALL BACKFLOW PREVENTION DEVICES REQUIRED BY AGENCIES HAVING JURISDICTION.
3. DRAINAGE SYSTEM (SEWER)
   A. ALL MATERIALS SHALL COMPLY WITH SECTION 701.
   B. DRAINAGE PIPING SHALL BE SLOPED PER SECTION 708.
4. VENTS AND VENTING
   A. EACH FIXTURE TRAP SHALL BE VENTED.
   B. VENT PIPE MATERIAL SHALL COMPLY WITH SECTION 903.
5. WATER DISTRIBUTION
   A. WATER PIPE AND FITTINGS MATERIALS SHALL BE PER SECTION 604.
6. STORM DRAINAGE PIPING
   A. ALL MATERIALS SHALL COMPLY WITH APPENDIX D, PART A. ALL STORM PIPING SHALL BE SIZED FOR 2"/HR RAINFALL OVER A 60 MINUTE DURATION, 100 YEAR RETURN.
   B. STORM PIPING SHALL BE SLOPED PER SECTION 1103.
7. NATURAL GAS PIPING
   A. NATURAL GAS PIPE AND FITTINGS MATERIALS SHALL BE PER SECTION 1208.
8. ALL PLUMBING FIXTURES SHALL COMPLY WITH SECTION 210.0 REQUIREMENTS AS REQUIRED.
9. PER CPC 309.5, THE PLUMBING PIPING SYSTEM WILL BE DESIGNED AND INSTALLED IN CONFORMANCE WITH SOUND LIMITATIONS AS REQUIRED IN CBC.
10. INSTALL CLEANOUTS AS REQUIRED PER SECTION 707.
11. PROVIDE DIELECTRIC UNIONS AT ALL POINTS OF CONNECTION WHERE THERE IS A DISSIMILARITY OF METALS PER SECTION 605.15.
12. ALL FIXTURE FLUSH VALVES SHALL BE CAPABLE OF OPERATING DURING A LOSS OF NORMAL POWER PER SECTION 413.2.
13. PER CPC 609.9, ALL POTABLE WATER PIPING SYSTEMS SHALL BE DISINFECTED USING PROCEDURES PRESCRIBED IN CPC 609.9(1) THROUGH 609.9(4).

2 SYMBOLS

- COLD WATER (CW)
- HOT WATER (HW)
- HOT WATER RETURN (HWR)
- VENT (V)
- WASTE (W)
- UNDER SLAB WASTE (W)
- STORM (ST)
- UNDER SLAB STORM (ST)
- NATURAL GAS (G)
- PIPE GUIDE
- DIRECTION OF FLOW
- PIPE ANCHOR
- UNION
- VALVE
- BALL VALVE
- ANGLE VALVE
- OS&Y VALVE
- CHECK VALVE (SHOWN W/FLOW)
- BALANCING VALVE
- CAPPED PIPING
- PLUG END OF PIPE
- GAS COCK
- CONTROL VALVE
- SOLENOID VALVE
- GAS PRESSURE REGULATOR (GPR)
- PRESSURE REDUCING VALVE (PRV)
- SAFETY/RELIEF VALVE
- PRESSURE-TEMPERATURE RELIEF VALVE (PRV)
- SLEEVE
- HB — HOSE BIB (HB)
- WH — NON-FREEZE WALL HYDRANT (WH)
- ROOF DRAIN (RD)
- FLOOR DRAIN (FD)
- FLOOR DRAIN (FD)
- TRENCH DRAIN (TD)
- CO — CLEANOUT (CO)
- FCO — FLOOR CLEANOUT (FCO)
- GCO — GROUND CLEANOUT (GCO)
- P-TRAP
- WALL CLEANOUT (CO)
- STRAINER
- THERMOMETER (SPECIFY TYPE) (TH)
- PRESSURE GAUGE WITH GAUGE COCK (PG)
- AQUASTAT
- "A" — WATER HAMMER ARRESTER (LETTER DESIGNATES SIZE)
- BACKFLOW PREVENTER (BFP)
- BOTTOM DROP
- ELBOW DOWN
- ELBOW UP
- RISE OR DROP
- POINT OF CONNECTION (NEW TO EXISTING)
- POINT OF CONNECTION (NEW TO EXISTING)
- WR / 1 — RISER INDICATOR / DETAIL INDICATOR (TOP INDICATES TYPE OF RISER / DETAIL NO. BOTTOM INDICATES RISER NUMBER / DWG NO.
- 1 / P101 — SECTION INDICATOR (TOP INDICATES SECTION NUMBER BOTTOM INDICATES DRAWING NUMBER
- WASHING MACHINE SUPPLY AND DRAIN BOX
- KEYED NOTE TAG
- AREA MATCHLINE

1 ABBREVIATIONS

BLDG.	BUILDING
CD	CONDENSATE
CO	CLEANOUT
CONT'D.	CONTINUED
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RETURN
DN	DOWN
ELEV.	ELEVATION
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FS	FLOOR SINK
GI	GREASE INTERCEPTOR
GW	GREASE WASTE
HB	HOSE BIBB
INV.	INVERT
L	LAVATORY
MS	MOP SINK
OFD	OVERFLOW DRAIN
ORD	OVERFLOW ROOF DRAIN
RD	ROOF DRAIN
S.F.	SQUARE FOOTAGE
SH	SHOWER
SK	SINK
ST	STORM
STK	STACK
V	VENT
VTR	VENT THRU ROOF
W	WASTE
WC	WATER CLOSET
WH	WALL HYDRANT
WR	WATER RISER
WMSD	WASHING MACHINE SUPPLY AND DRAIN BOX

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Rev.	Description	Date
	ISSUE FOR PLAN REVIEW	21 JAN 2022
	BACKCHECK	
	AGENCY APPROVAL	

FACILITY #: 12372
OSHPD #:

ARCHITECT SEAL

CONSULTANT SEAL

PROFESSIONAL ENGINEER — MECHANICAL — PE 37830 — Exp 3/31/22 — STATE OF CALIFORNIA

Drawing Title:

PLUMBING LEGENDS, SYMBOLS & ABBREVIATIONS

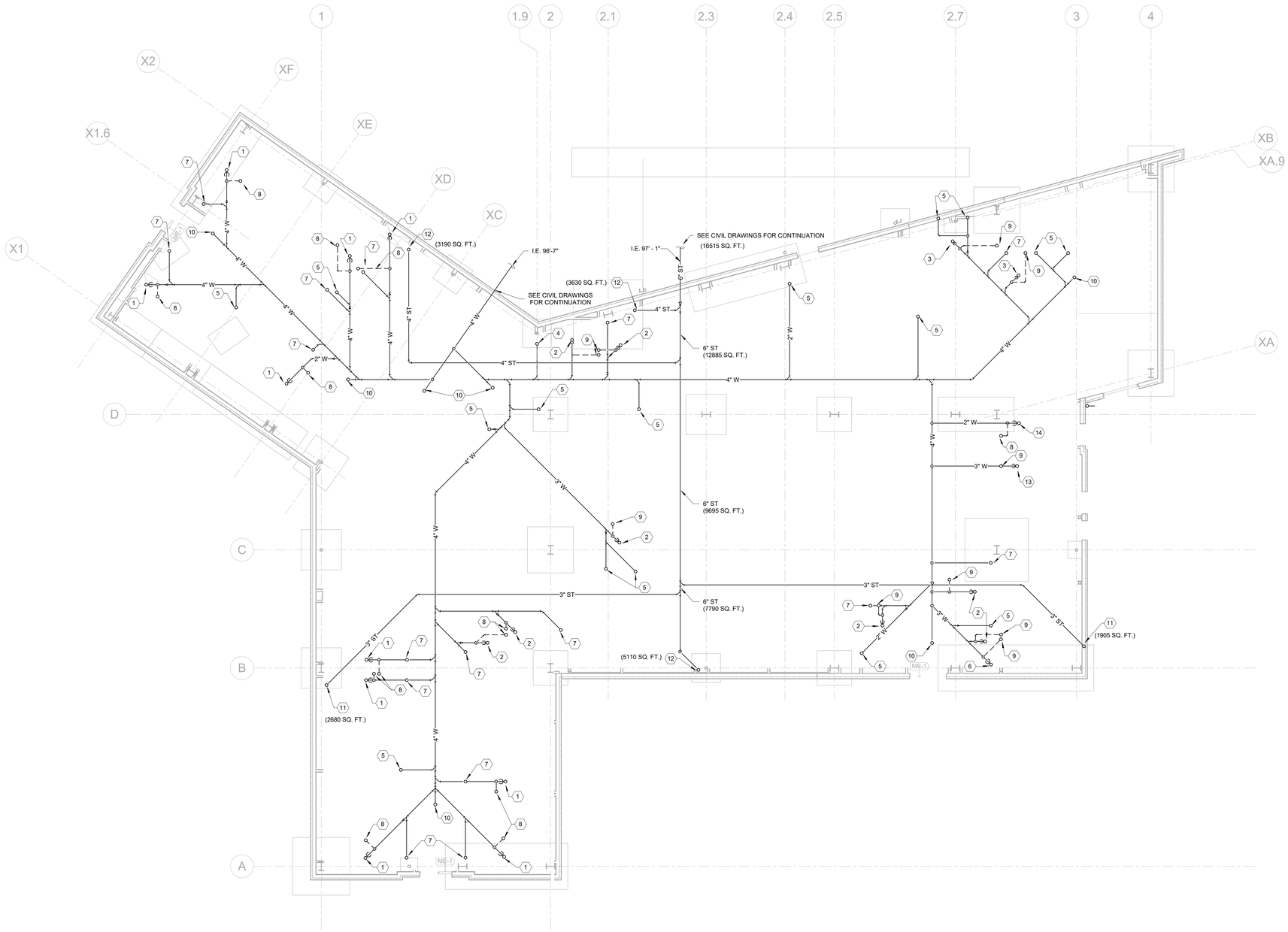
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1 UNDERFLOOR PLUMBING PLAN

1/8" = 1'-0"

2 KEYED NOTES

1. 2" W UP TO FD-1.
2. 3" W UP TO FD-1.
3. 4" W UP TO FD-1.
4. 1-1/2" W UP.
5. 2" W UP.
6. 3" W UP.
7. 4" W UP.
8. 1-1/2" V UP.
9. 2" V UP.
10. 4" UP TO FCO.
11. 3" ST UP.
12. 4" ST UP.
13. 3" UP TO FD-2.
14. 2" W UP TO HD-1.

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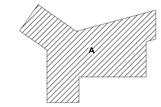
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KEY PLAN



Drawing Title:

KEY PLAN

UNDERFLOOR PLUMBING PIPING PLAN

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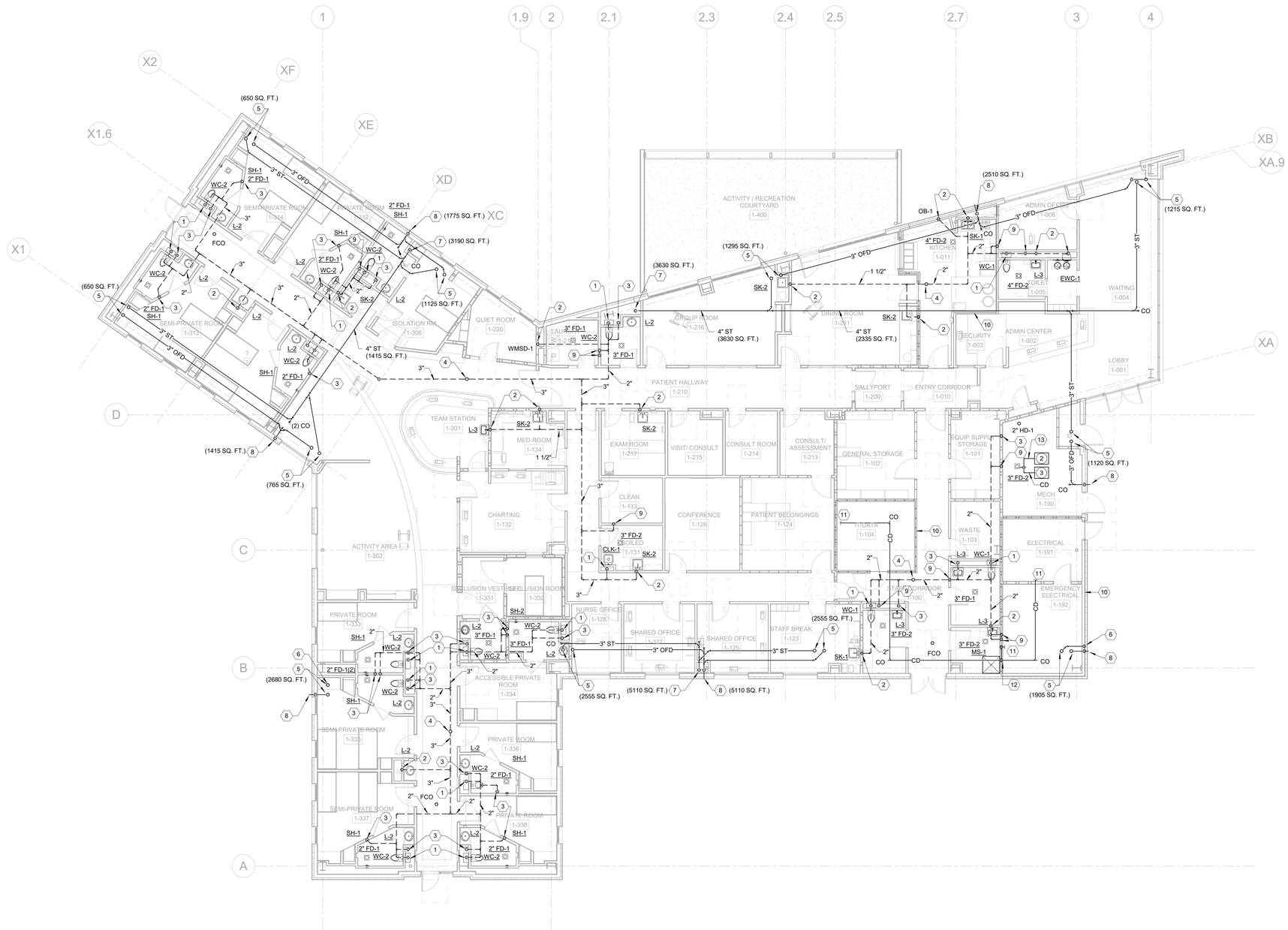
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2 KEYED NOTES

1. 2" V DN, 4" W DN.
2. 1-1/2" V DN, 2" W DN.
3. 1-1/2" V DN.
4. 3" VENT THRU ROOF.
5. 3" ST UP, 3" OFD UP.
6. 3" ST DN.
7. 4" ST DN.
8. 3" OFD DN, DISCHARGE TO 18" MAXIMUM ABOVE GRADE.
9. 2" V DN.
10. PROVIDE DRIP PAN BELOW ANY PIPING LOCATED ABOVE BORDERED AREA. SEE I1/P0601 FOR FURTHER INFORMATION.
11. 3/4" CONDENSATE TO MECHANICAL EQUIPMENT. SEE MECHANICAL DRAWINGS FOR CONTINUATION.
12. DISCHARGE CONDENSATE TO MOP SINK.
13. 3/4" CONDENSATE TO MECHANICAL EQUIPMENT. DISCHARGE TO FD. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

1 LEVEL 01 PLUMBING PLAN

1/8" = 1'-0"

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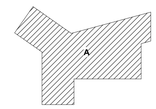
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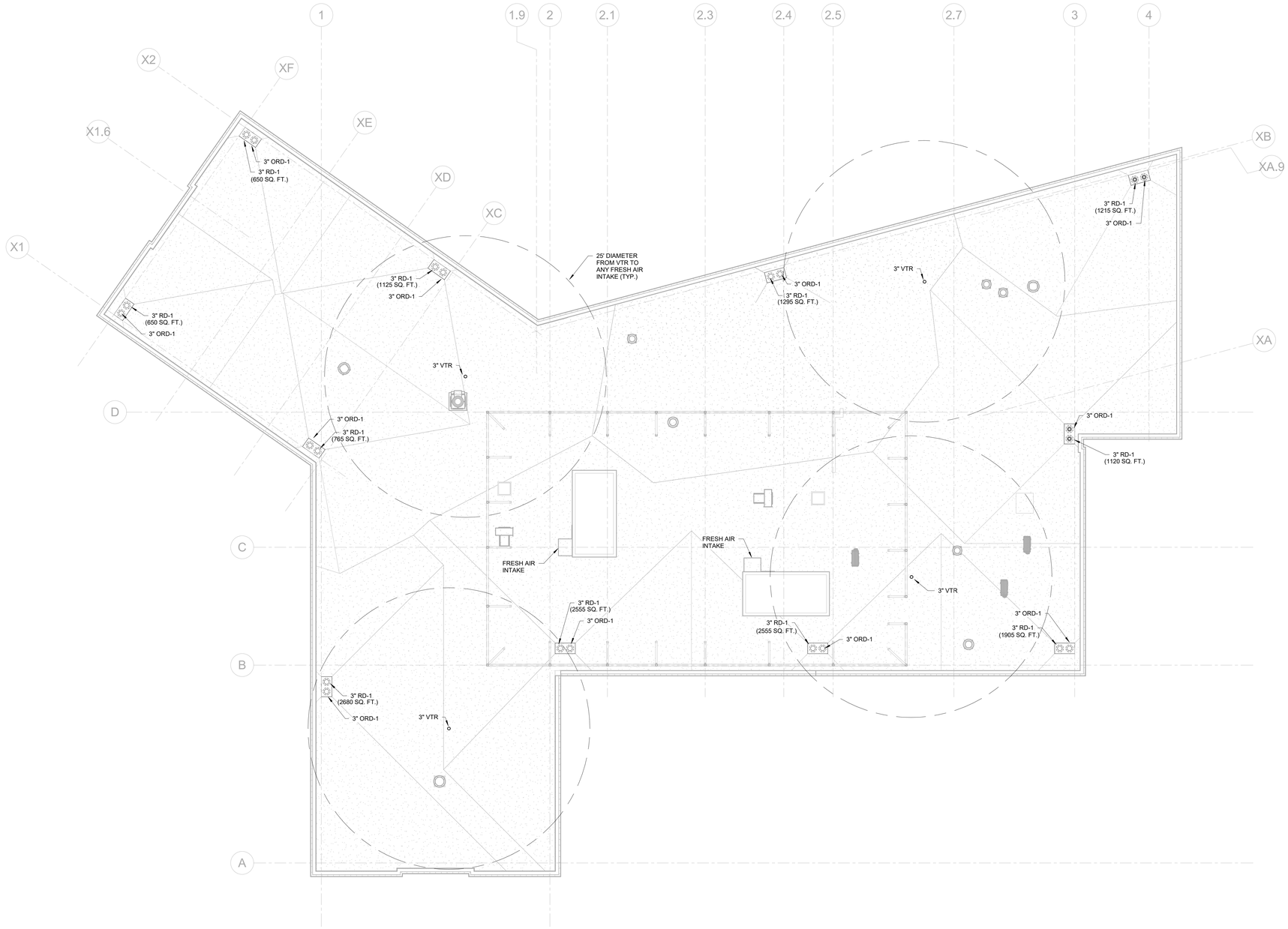
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1 ROOF LEVEL PLUMBING PIPING PLAN
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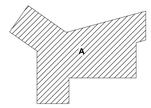
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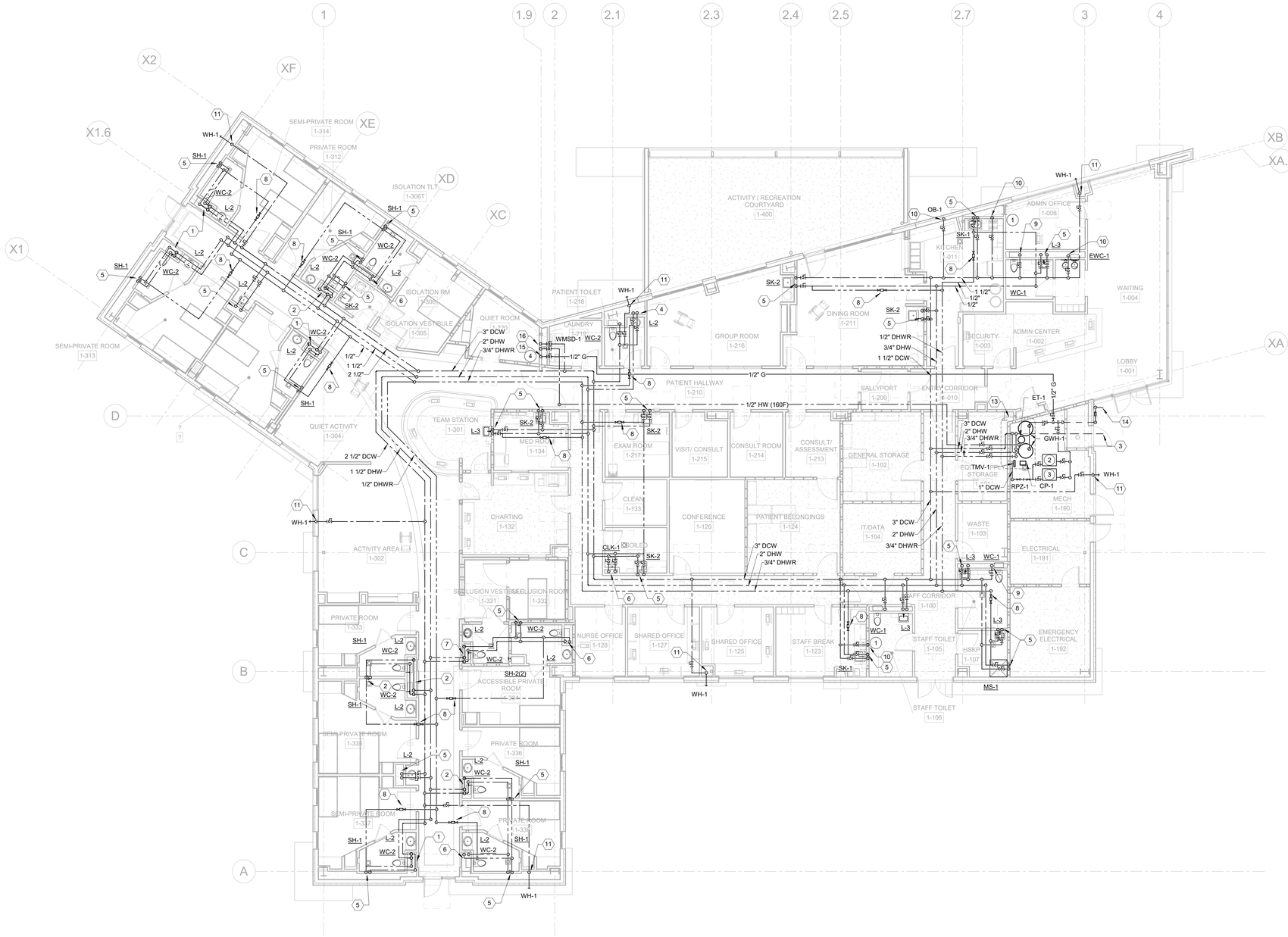
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1 LEVEL 01 DOMESTIC PLAN

1/8" = 1'-0"

2 KEYED NOTES

1. DROP 1-1/2" DCW & 3/4" DHW DN IN CHASE & PROVIDE SHUT-OFF VALVES IN RISE W/ ACCESS PANEL ON CORRIDOR SIDE. BRANCH AND CONNECT 1-1/4" DCW TO WC, 1/2" DCW & DHW TO L AND 1/2" DCW & DHW TO SH AS REQUIRED.
2. DROP 2" DCW & 1" DHW DN IN CHASE & PROVIDE SHUT-OFF VALVES IN RISE W/ ACCESS PANEL ON CORRIDOR SIDE. BRANCH AND CONNECT 1-1/4" DCW TO EACH WC (2), 1/2" DCW & DHW TO EACH L (2) AND 1/2" DCW & DHW TO EACH SH (2) AS REQUIRED.
3. 3" DCW ENTRY. SEE CIVIL DRAWINGS FOR CONTINUATION.
4. DROP 1-1/4" DCW & 1/2" DHW DN IN CHASE. BRANCH AND CONNECT 1-1/4" DCW TO WC AND 1/2" DCW & DHW TO L AS REQUIRED.
5. DROP 1/2" DCW & 1/2" DHW DN TO SERVE FIXTURE.
6. DROP 1-1/4" DCW & 1/2" DHW DN TO SERVE FIXTURE(S).
7. DROP 2" DCW & 3/4" DHW DN IN CHASE & PROVIDE SHUT-OFF VALVES IN RISE W/ ACCESS PANEL ON CORRIDOR SIDE. BRANCH AND CONNECT 1-1/4" DCW TO EACH WC (2) AND 1/2" DCW & DHW TO EACH L (2) AS REQUIRED.
8. CIRCUIT SOLVER ASSEMBLY MOUNTED INLINE OF HWR PIPING.
9. DROP 1-1/4" DCW DN TO SERVE FIXTURE.
10. DROP 1/2" DCW DN TO SERVE FIXTURE.
11. DROP 3/4" DCW DN TO SERVE FIXTURE.
12. DROP 3/4" DCW & 3/4" DHW DN TO SERVE FIXTURE(S).
13. SEE P0601 FOR FURTHER DETAIL AND INFORMATION FOR GWH-1 AND ASSOCIATED EQUIPMENT.
14. 2" G FROM BELOW GRADE (SEE CIVIL FOR CONTINUATION) WITH GAS METER, PRESSURE REGULATOR, AND EARTHQUAKE VALVE IN RISE. GAS METER AND PRESSURE REGULATOR BY NATURAL GAS PROVIDER.
15. 1/2" G DN TO SERVE EQUIPMENT.
16. DROP 1/2" DCW & 1/2" HW (160F) DN TO SERVE FIXTURE.

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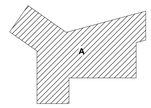
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Drawing Title:

LEVEL 01 DOMESTIC WATER PIPING PLAN

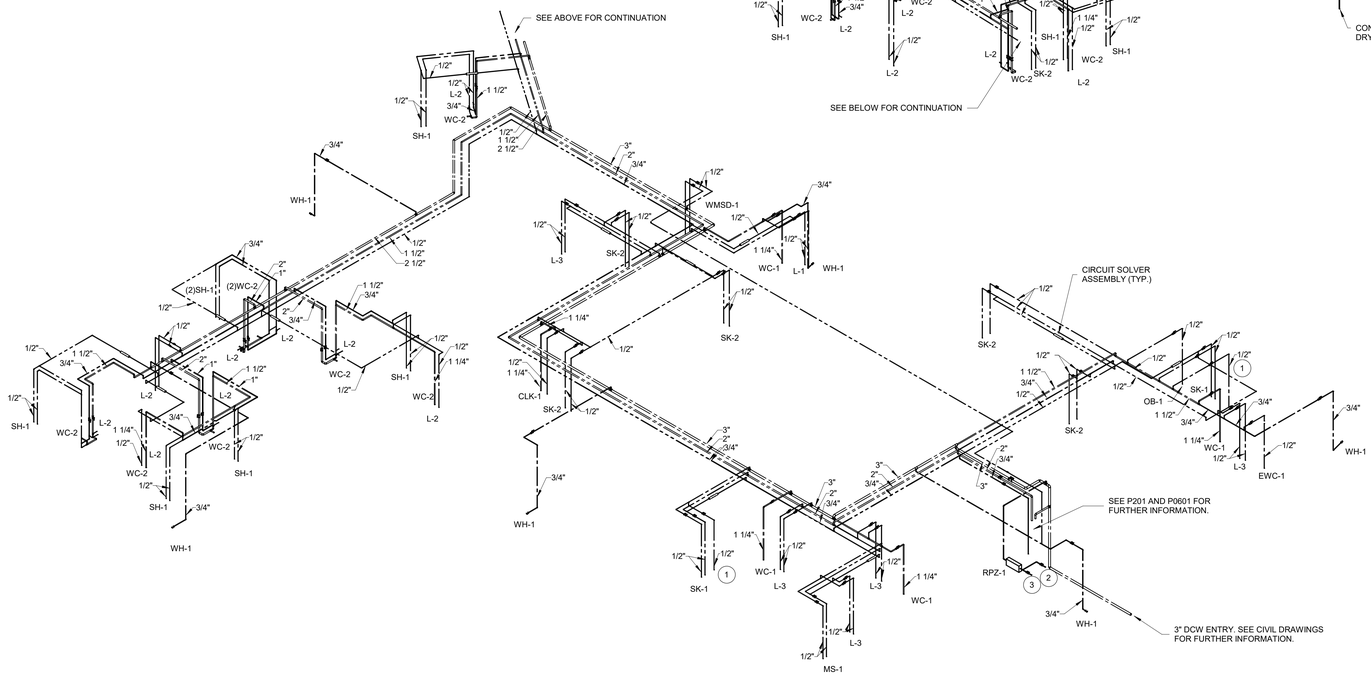
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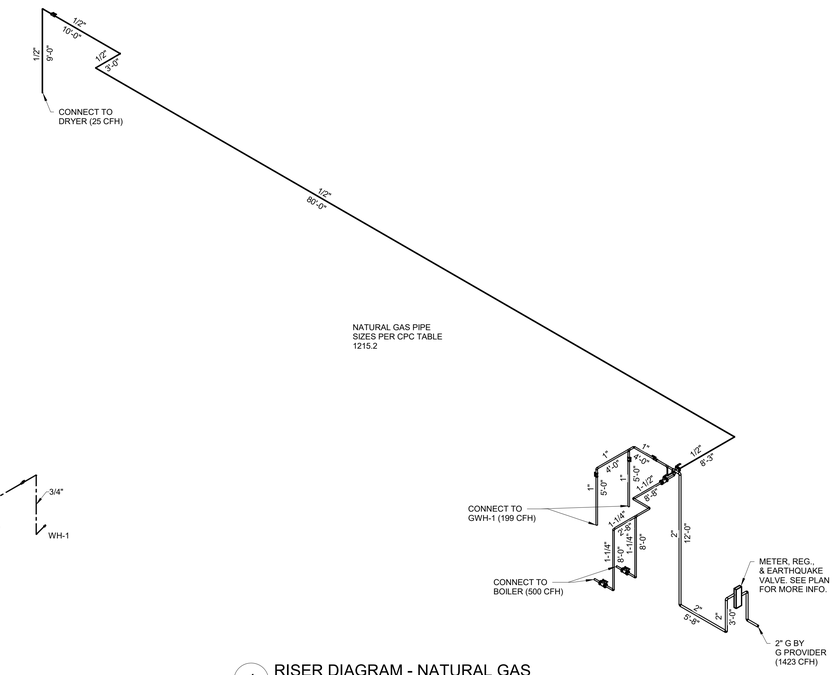
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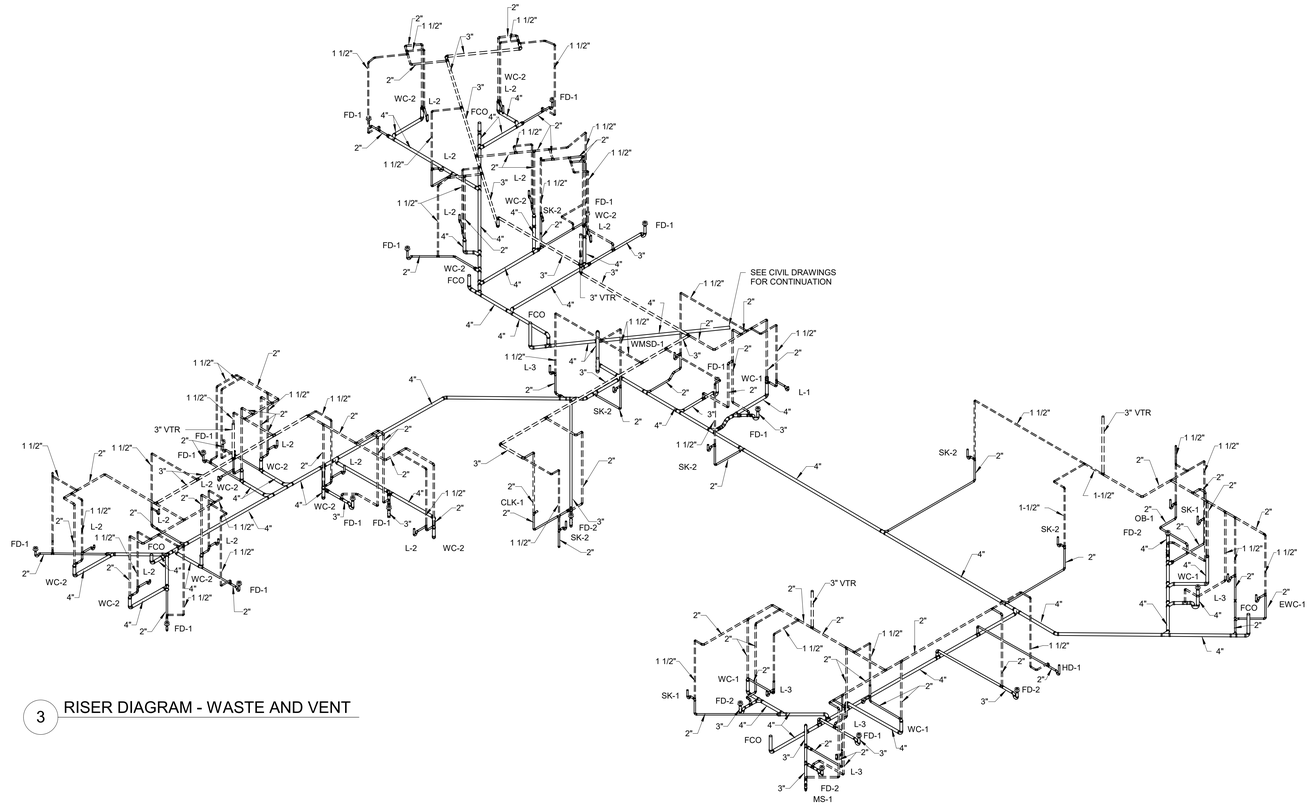
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1 RISER DIAGRAM - DOMESTIC WATER



4 RISER DIAGRAM - NATURAL GAS



3 RISER DIAGRAM - WASTE AND VENT

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PLUMBING FIXTURE SCHEDULE

SECTION 224000

TAG	FIXTURE TYPE	ADA	FIXTURE		FAUCET OR FLUSH VALVE			P-TRAP		DRAIN		SUPPLIES		SEAT		ROUGH-IN					CARRIER		MOUNTING	NOTES
			MANUFACTURER	MODEL	MANUFACTURER	MODEL	FLOWRATE	MANU	MODEL	MANU	MODEL	MANU	MODEL	MANU	MODEL	W [IN]	V [IN]	CW [IN]	HW [IN]	TW [IN]	MAKE	MODEL		
WC-1	WATER CLOSET	YES	AMERICAN STANDARD	3351.528	AMERICAN STANDARD	3351.511	1.1 GPF	INTEGRAL TO UNIT	--	--	--	--	--	BEMIS	2155SSCT	4	2	1 1/4	-	-	ZURN	Z1200 SERIES	WALL	2, 3, 9
WC-2	WATER CLOSET	YES	KOHLER	K-4323-0	AMERICAN STANDARD	606B.311	1.1 GPF	INTEGRAL TO UNIT	--	--	--	--	--	--	--	4	2	1 1/4	-	-	--	--	FLOOR	2, 3, 9,10
L-1	LAVATORY	YES	--	--	AMERICAN STANDARD	6053.204	0.35 GPM	ZURN	Z8702-15-PC	ZURN	Z8743-PC	ZURN	ZH8820LKQ-PC	--	--	1 1/2	1 1/2	1/2	1/2	1/2	--	--	COUNTER	1, 11
L-2	LAVATORY	YES	--	--	BEHAVIORAL SAFETY	SF380	0.12 GPC	ZURN	Z8702-15-PC	ODD BALL IND.	SP-11-GDK	ZURN	ZH8820LKQ-PC	--	--	1 1/2	1 1/2	1/2	1/2	1/2	--	--	COUNTER	1, 11
L-3	LAVATORY	YES	AMERICAN STANDARD	0321.026	AMERICAN STANDARD	6053.204	0.35 GPM	ZURN	Z8702-15-PC	ZURN	Z8743-PC	ZURN	ZH8820LKQ-PC	--	--	1 1/2	1 1/2	1/2	1/2	1/2	--	--	WALL	1,2,9,11
SK-1	SINK	YES	ELKAY	LRADQ221955	AMERICAN STANDARD	6540180	1.5 GPM	ZURN	Z8702-15-PC	ZURN	Z8743-PC	ZURN	ZH8820LKQ-PC	--	--	1 1/2	1 1/2	1/2	1/2	--	--	--	COUNTER	1,2,9,11
SK-2	SINK	NO	--	--	AMERICAN STANDARD	6540180	1.5 GPM	ZURN	Z8702-15-PC	ZURN	Z8743-PC	ZURN	ZH8820LKQ-PC	--	--	1 1/2	1 1/2	1/2	1/2	--	--	--	COUNTER	1
SH-1	SHOWER	NO	--	--	BEHAVIORAL SAFETY	SV710	1.8 GPM	--	--	--	--	--	--	--	--	--	--	1/2	1/2	--	--	--	WALL	9, 11, 13
SH-2	SHOWER	YES	--	--	BEHAVIORAL SAFETY	SV230 & SH430	1.8 GPM	--	--	--	--	--	--	--	--	--	--	1/2	1/2	--	--	--	WALL	9, 11, 13
CLK-1	CLINICAL SINK	NO	AMERICAN STANDARD	9512999.020	AMERICAN STANDARD	8345.115	2.5 GPM	INTEGRAL TO UNIT	--	--	--	ZURN	ZH8820LKQ-PC	--	--	4	2	1 1/4	1/2	-	ZURN	Z1200 SERIES	WALL	1, 2, 15, 16
EWC-1	ELECTRIC WATER COOLER	YES	ELKAY	EZSTL8WSLK	--	--	--	--	--	--	--	--	--	--	--	1 1/2	1 1/2	1/2	--	--	--	--	WALL/SURFACE	3, 5
MS-1	MOP SINK	-	FIAT	TSB3002	AMERICAN STANDARD	8354112	2.5 GPM	--	--	--	--	--	--	--	--	3	1 1/2	1/2	1/2	--	--	--	FLOOR	6, 9, 12
WH-1	WALL HYDRANT	-	ZURN	Z1305	--	--	5 GPM	--	--	--	--	--	--	--	--	--	--	3/4	--	--	--	--	CL = +/- 24" AFG	4, 7, 8
HB-1	HOSE BIBB	-	ZURN	Z1320	--	--	5 GPM	--	--	--	--	--	--	--	--	--	--	3/4	--	--	--	--	CL = +/- 24" AFG	4, 7, 8
WMSD-1	SUPPLY AND DRAIN BOX	-	GUY GRAY	MWB9	--	--	--	--	--	--	--	--	--	--	--	2	1-1/2	1/2	1/2	--	--	--	WALL/SURFACE	2
OB-1	OUTLET BOX	-	GUY GRAY	MIB1AB	--	--	--	--	--	--	--	--	--	--	--	--	--	1/2	--	--	--	--	WALL/SURFACE	2, 14

NOTES:
1 - WITH LOOSE KEY
2 - PROVIDE WHITE COLOR
3 - INSTALL PER ADA STANDARDS
4 - INSTALL RIM OF BOX TO MATCH TOP SIDE OF BRICK/BLOCK COARSING.
5 - PROVIDE WITH WATER FILTER
6 - WITH ATMOSPHERIC VACUUM BREAKER, MOP HANGER, WALL GUARDS, AND RIM GUARD
7 - WITH LOOSE KEY AND VACUUM BREAKER.
8 - INSTALL ALL WEATHER CAULKING AROUND SIDES IN CONTACT WITH WALL - COLOR GRAY
9 - INSTALL CLEAR NON-MOLDING SILICONE CAULK WHERE FIXTURE IS IN CONTACT WITH FLOOR OR WALLS.
10 - PROVIDE ANTI-CLOGGING DEVICE ON OUTLET OF WATER CLOSET. BASIS OF DESIGN PRODUCT WILLOUGHBY NALLYATOR.
11 - PROVIDE POINT OF USE THERMOSTATIC MIXING VALVE WHERE REQUIRED.
12 - PROVIDE INLINE CHECK VALVES ON CW AND HW SUPPLIES TO FAUCET.
13 - AT BARRIER-FREE UNITS, PROVIDE ADDITIONAL SHOWER ASSEMBLY MOUNTED AT LOWER HEIGHT TO MEET ACCESSIBILITY REQUIREMENTS.
14 - PROVIDE WITH DUAL CHECK VALVE INLINE TO EQUIPMENT.
15 - WITH AMERICAN STANDARD 6047800.002 BEDPAN WASHER AND AMERICAN STANDARD 6047.117.002 FLUSH VALVE.
16 - PROVIDE SIDE AND FRONT STAINLESS STEEL RIM GUARDS.

PLUMBING PUMP SCHEDULE

TAG	MANUF.	MODEL	QTY.	POWER [FLA]	ELECTRICAL			FLOW [GPM]	HEAD [FT]	SETPOINTS		SECTION	DETAIL	WEIGHT [LBS]	SYSTEM	NOTES
					VAC	PH	HZ			ON	OFF					
CP-1	B&G	NBF-12F	1	0.48	120	1	60	5	8	105	115	221123	9/P0601	10	DOMESTIC HOT WATER RETURN	1

NOTES: 1 - PLUMBING CONTRACTOR TO BALANCE HOT WATER SYSTEM

BACKFLOW PREVENTER SCHEDULE

SECTION 221119

TAG	LOCATION	QTY.	MANUF.	MODEL	SIZE [IN]	SYSTEM	PRESSURE DROP	STRAINER	WATER TEMP	DETAIL	NOTES
RPZ-1	MECHANICAL ROOM	1	WATTS	LF909	1"	DOMESTIC	10 PSI AT 60 GPM	YES	40	4/P0601	--

NOTES * REFER TO PLANS FOR SIZES

NATURAL GAS WATER HEATER SCHEDULE

SECTION 223400

TAG	MANUFACTURER	QTY.	MODEL	INPUT [MBH]	EFF. [%]	INT. [IN.]	EXH. [IN.]	STORAGE CAPACITY [GAL]	RECOVERY RATE [GPH] AT 100 DEGREE RISE	WATER TEMP	ELECTRICAL			DETAIL	OPER. WEIGHT [LBS]	NOTES
											VAC	PH	HZ			
GWH-1	AO SMITH	2	BTH-199A	199	97	3	3	100	235	160	120	1	60	10/P0601	1366	---

NOTES:
1. INCLUDE WITH CONDENSATE NEUTRALIZATION KIT.

STORAGE/EXPANSION TANK SCHEDULE

TAG	MANUF.	QTY.	MODEL	ACTUAL STORAGE [GAL]	ACCEPTANCE VOLUME [GAL]	SIZE [IN]		OPER. WEIGHT [LBS]	MOUNTING TYPE	MOUNTING HEIGHT [IN]	T&P RELIEF VALVE	INLET SIZE [IN]	OUTLET SIZE [IN]	DETAIL	ASME RATED	PRESS RATING [PSI]	SECTION	NOTES
						DIA	HEIGHT											
ET-1	AMTROL	1	ST-30V-C	14	9	16	19	140	FLOOR	-	-	3/4	-	10/P0601	YES	150	223400	1

NOTES:
1. PRECHARGED

EQUIPMENT CONNECTION SCHEDULE

EQ. NO.	DESCRIPTION	COLD WATER	HOT WATER	WASTE	VENT	NAT. GAS	INSTALLED BY	PROVIDED BY	NOTES
(1)	COFFEE MAKER	1/2"	-	-	-	-	CONTRACTOR	OWNER	PROVIDE WITH DUAL CHECK VALVE INLINE TO EQUIPMENT
(2)	BOILER	1"	-	3/4"*	-	1-1/2"	CONTRACTOR	CONTRACTOR	PROVIDE WITH RPZ-1. SEE BFP SCHEDULE
(3)	BOILER	1"	-	3/4"*	-	1-1/2"	CONTRACTOR	CONTRACTOR	PROVIDE WITH RPZ-1. SEE BFP SCHEDULE
(4)	DRYER	-	-	-	-	1/2"	CONTRACTOR	OWNER	-

NOTES:
* INDIRECT CONDENSATE DRAIN TO FLOOR DRAIN. SEE PLANS FOR FURTHER INFORMATION

DRAIN SCHEDULE

SECTION 221319

TAG	MANUFACTURER	MODEL	SERVICE	BODY MATL	OUTLET [IN]	STRAINER		OPTIONS		NOTES
						SIZE [IN]	FINISH			
FCO	ZURN	ZN1400	SANITARY	CAST IRON	VARIES*	VARIES	NICKEL BRONZE	VP	-	ROUND COVER
FD-1	ZURN	Z-415	SANITARY	CAST IRON	VARIES*	VARIES	NICKEL BRONZE	VP	-	ROUND STRAINER, PROVIDE W/ TRAP PRIMER & LIGATURE RESISTANT GRATE
FD-2	ZURN	Z-520	SANITARY	CAST IRON	4	9	CAST IRON	-	-	ROUND STRAINER, PROVIDE W/ TRAP PRIMER
FS-1	ZURN	Z-1750	SANITARY	STAINLESS STEEL	4	12	STAINLESS STEEL	VP	1/2 GRATE	SQUARE STRAINER, PROVIDE W/ TRAP PRIMER
IDW-1	ZURN	Z-326	SANITARY	CAST IRON	1-1/2	-	CAST IRON	-	-	PROVIDE W/ TRAP PRIMER
RD-1	ZURN	Z100	STORM	CAST IRON	VARIES*	-	-	VP	-	-
ORD-1	ZURN	Z100	STORM	CAST IRON	VARIES*	-	-	VP	-	PROVIDE 2" INTERNAL WATER DAM
DN-1	ZURN	Z199	STORM	NICKEL BRONZE	VARIES*	-	-	SS	-	-

NOTES * REFER TO PLANS FOR SIZES

THERMOSTATIC MIXING VALVE SCHEDULE

SECTION 221119

TAG	QTY.	MANUFACTURER	MODEL	BODY MATL	TEMP SETTING	OPER. WEIGHT [LBS]	PUMP	TEMP GAUGE	MOUNTING HEIGHT	DETAIL	NOTES
TMV-1	1	LEONARD	TM-520B-LF-DT	BRONZE	115	18	CP-1	YES	CL @ 60" AFF	10/P0601	1, 2

NOTES 1 - PROVIDE LEAD FREE UNIT.
2 - UNIT TO HAVE INTEGRAL CHECK STOPS.

PIPE IDENTIFICATION SCHEDULE

SECTION 220553

SERVICE	BAND COLOR	TEXT COLOR	TAGGING SPECIFICATIONS		
			PIPE SIZE	MIN. LENGTH	TEXT HEIGHT
DOMESTIC COLD WATER	GREEN	WHITE	1/2" - 4"	8"	1/2"
DOMESTIC HOT WATER	GREEN	WHITE	1/2" - 3"	8"	3/4"
HOT WATER RETURN	YELLOW	BLACK	1/2" - 2"	12"	1 1/4"
SANITARY SEWER	GREEN	WHITE	1-1/2" - 4"	32"	3 1/2"
STORM SEWER	GREEN	WHITE			
CONDENSATE DRAIN	GREEN	WHITE			
VENT	GREEN	WHITE			
NATURAL GAS	YELLOW	BLACK			

LOCATE PIPE IDENTIFICATION AS FOLLOWS:
1. WITHIN 1'-6" OF EACH VALVE.
2. WITHIN 3'-0" OF EACH 90 DEGREE ELBOW, CONNECTION TO EQUIPMENT OR VESSELS, POINT WHERE PIPE ENTERS SHAFTS OR PENETRATES OUTSIDE WALLS.
3. ON NOT OVER 20'-0" INTERVALS ALONG ALL PIPING (EXPOSED AND CONCEALED).
4. AT TEES WITHIN 3'-0" OF BOTH MAIN AND BRANCH.
5. FOR AREAS OF MULTIPLE 90 DEGREE ELBOWS OR TEES CONSULT PROJECT ENGINEER FOR PLACEMENT.
6. WHERE NEW PIPING MEETS EXISTING, PLACE ONE ADDITIONAL LABEL ON EXISTING PIPING AS SPECIFIED IN ITEMS 1 THRU 5.
7. INSTALL BURIED PIPE LABELS CONTINUOUS AND 12" BELOW FINISHED GRADE.
8. INSTALL "NON-POTABLE" LABELS WITHIN 3'-0" OF BACKFLOW PREVENTOR.
9. STENCILING WILL NOT BE ALLOWED.

NOTES:
1. ALL PIPE LABELS SHALL INDICATE DIRECTION OF FLOW.

PIPE INSULATION SCHEDULE

SECTION 220700

SERVICE	PIPE SIZE	INSULATION THICKNESS	NOTES
DOMESTIC HOT WATER	ALL	1 1/2"	-
DOMESTIC HOT WATER RETURN	ALL	1 1/2"	-
ROOF DRAIN BODIES	ALL	1"	-
HORIZONTAL RAIN CONDUCTORS	ALL	1"	-
CONDENSATE (CLEARWATER WASTE)	ALL	1/2"	-

WATER HAMMER ARRESTOR SCHEDULE

P.D.I. SYMBOL	FIXTURE UNITS	SIZE
"A"	1-11	1/2"
"B"	12-32	3/4"
"C"	33-60	1"
"D"	61-113	1"
"E"	114-154	1"
"F"	155-330	1"

EACH FIXTURE RECEIVING HOT AND COLD WATER SHALL BE FITTED WITH A PRE-CHARGED SHOCK ARRESTOR SUITABLE FOR OPERATION IN THE 100°F TO 300°F TEMPERATURE RANGE AND 250 PSIG WORKING PRESSURE AND SAME SIZE AS FIXTURE SUPPLY PIPE. ARRESTOR SHALL BE IN ACCORDANCE WITH ANSI A112.26.1, AND SHALL BE SIZED IN ACCORDANCE WITH PDI MANUAL WH-201.

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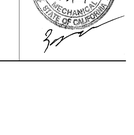
ISSUE FOR PLAN REVIEW 21 JAN 2022
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FACILITY #: 12372
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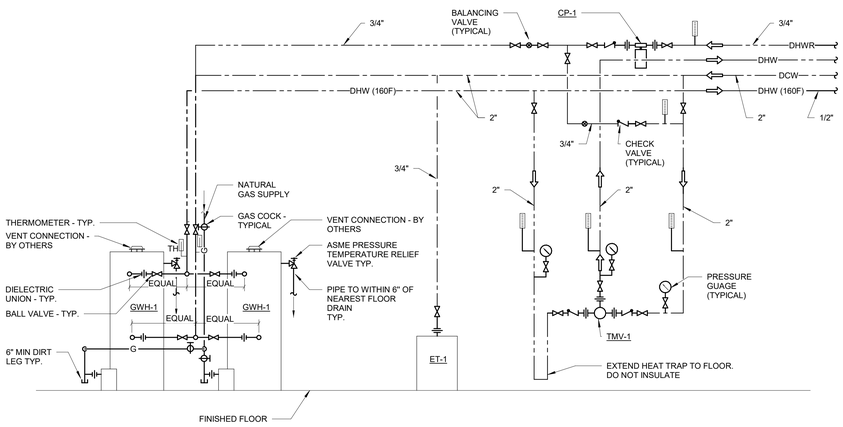
PLUMBING SCHEDULES

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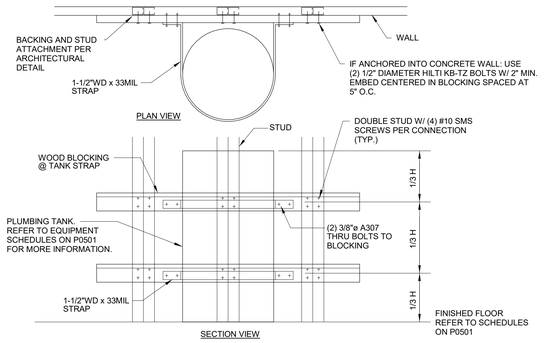
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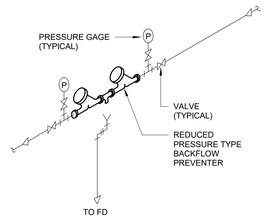
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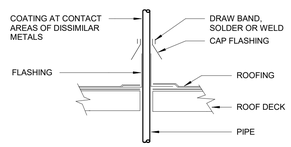
10 GAS WATER HEATER SCHEMATIC
NTS



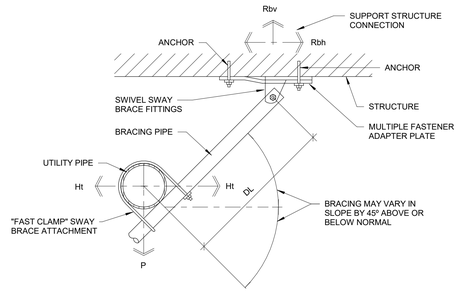
8 WATER HEATER & EXPANSION TANK STRUCTURAL SUPPORT DETAIL
NTS



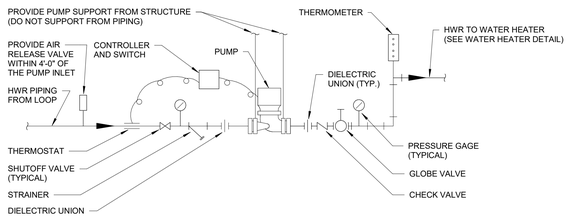
4 REDUCED PRESSURE TYPE BACKFLOW PREVENTER DETAIL
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7 PIPING THROUGH ROOF INSTALLATION DETAIL
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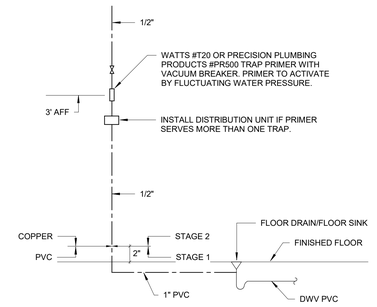


3 SEISMIC BRACING DETAIL
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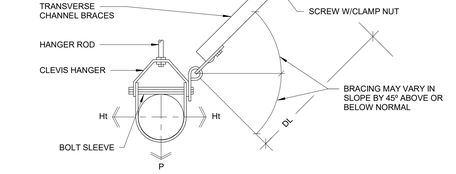


NOTE: FOR PUMP SELECTION SEE SCHEDULE

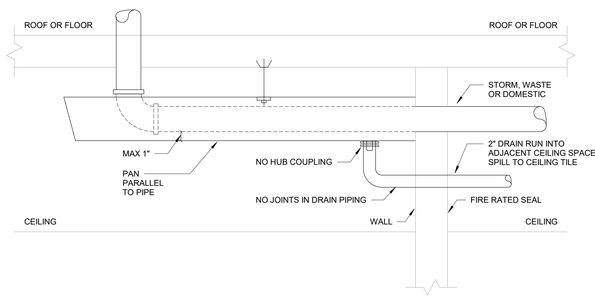
9 SIMPLEX HOT WATER WATER RECIRCULATING PUMP PIPING DETAIL
NTS

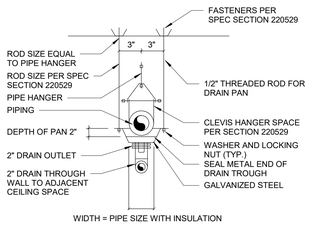


6 TRAP PRIMER CONNECTION DETAIL
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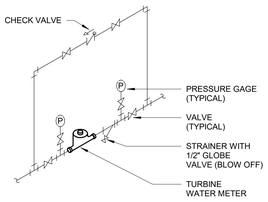


2 SEISMIC BRACING DETAIL
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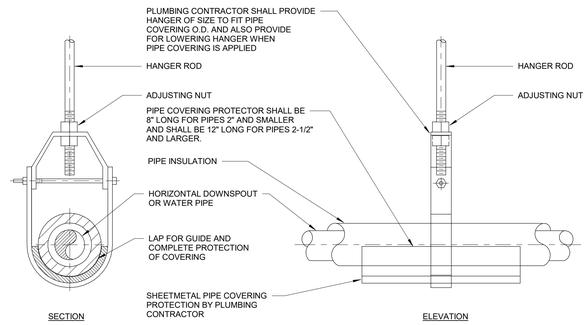




11 PIPE DRAIN PAN DETAIL
NTS



5 WATER METER PIPING DETAIL
NTS



1 PIPE HANGER SADDLE FOR INSULATED PIPING
NTS

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	ISSUE FOR PLAN REVIEW	21 JAN 2022
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	AGENCY APPROVAL	

FACILITY #: 12372
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PLUMBING DETAILS

Issue Date: 11/29/2021
Project No.: 006240.00 Checked by: MG

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City of Oceanside
Fire Flow Test Request Form

Today's Date: 08/18/2020 Request Number: Fire19-0236 (Year – Number)

Requester's Name	Project Address or APN #	Contact Phone Number
Phummarian Sritongsook, Cannon Design	4002 Vista Way. Oceanside, CA APN166-010-37	661-300-0276
		Email Address: psritongook@cannondesign.com

Fire Flow Test Requested Date: ASAP

Is a Location Available for Water Run-Off? YES ☑ NO ☐

Explain what will be Done with the Discharged Water:

◉ Public Hydrant(s) ○ Private Hydrant(s) (Circle One)

HYDRANT MAP MUST BE PROVIDED WITH HYDRANT LOCATIONS AND AFFECTED ADDRESS(ES)

Comments

Static = 115 Resid = 110 Pitot = 58 GPM = 1278

Andrew Pillot @ Johnson Controls FP 949-468-7177
andrew.pillot@jci.com

Administrative Use Only:

Inspectors

Create an Operational Permit and invoice contact prior to scheduling.	Request the Calculation Results to be emailed to: fire-prevention@ci.oceanside.ca.us	The Fire Inspector must make an entry into the Hydrant Book after the results are received.

Version- 06/20/2016

6 GENERAL SEISMIC NOTES

1. FIXED EQUIPMENT IS DEFINED AS EQUIPMENT WHICH IS ANCHORED TO THE STRUCTURE. EQUIPMENT MUST BE ANCHORED IF IT IS PERMANENTLY ATTACHED TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS, OR WATER. I.E.: TANKS AND VESSELS (INCLUDE CONTENTS), INCLUDING SUPPORT SYSTEMS AND ANCHORAGE. ELECTRICAL, MECHANICAL, AND PLUMBING EQUIPMENT, AND ASSOCIATED CONDUIT, DUCTWORK AND PIPING, AND MACHINERY. THIS ANCHORAGE INCLUDES BUT IS NOT LIMITED TO WATER HEATERS, FREE-STANDING METAL STACKS, FLUES AND VENTS, AHU'S, PACKAGED AC EQUIPMENT, FANS AND BLOWERS, WATER STORAGE TANKS, PLUMBING FIXTURES, PUMPS AND MOTORS, FUEL GAS SYSTEMS, STORAGE TANKS, REHEAT COILS AND AIR TERMINAL DEVICES IF 20LBS OR MORE, FIRE PROTECTION SYSTEMS, ELECTRICAL POWER AND LIGHT SYSTEMS, CONDUIT AND BUS DUCTS, TRANSFORMERS, SWITCH GEARS, PANEL BOARDS, LIGHT FIXTURES, EMERGENCY POWER AND LIGHT, MOTOR GENERATOR SETS, BATTERY PACKS, UPS, ETC.
2. THE SUB-CONTRACTOR SHALL SUBMIT THE ANCHORAGE DETAILS AND CALCULATIONS FOR THOSE ITEMS NOT SHOWN ON THE DRAWINGS TO THE STUCTURAL ENGINEER OF RECORD. DETAILS AND CALCULATIONS TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW (ALLOW 4-WEEK REVIEW PERIOD). FOR ALL SUBSTITUTED EQUIPMENT THAT IS GREATER IN WEIGHT OR VARIES MORE THAN 10% IN LENGTH, HEIGHT, OR WIDTH FROM THE DSA APPROVED DETAILS. FOLLOWING THE REVIEW BY THE STRUCTURAL ENGINEER OF RECORD, THE SUB-CONTRACTOR SHALL SUBMIT THE ANCHORAGE DETAILS AND CALCULATIONS TO THE ARCHITECT (THIS SHALL BE DONE AT LEAST 12 WEEKS PRIOR TO THE SCHEDULED EQUIPMENT INSTALLATION). THE SUBCONTRACTOR'S STRUCTURAL ENGINEER SHALL PARTICIPATE IN ALL BACK CHECKING PROCEDURES.
3. THE CALCULATIONS AND DETAILS SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD SHALL BE SEALED AND SIGNED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA. THE CALCULATIONS SHALL DEMONSTRATE THE FOLLOWING:
   A. THE ADEQUACY OF ANCHORAGE UNDER ALL APPLICABLE LOAD CONDITIONS PRESCRIBED BY THE UNIFORM BUILDING CODE.
   B. THE STRUCTURAL ELEMENTS WHICH ARE RESISTING THE ANCHORAGE LOADS, SUCH AS CONCRETE FILL ON METAL DECK AND STEEL BEAMS, AND NOT STRESSED BEYOND.
4. FOR ALL VIBRATION ISOLATORS AND THEIR ANCHORAGES, THE SUB-CONTRACTOR SHALL PROVIDE CALCULATIONS, DETAILS, AND/OR TEST DATA TO SUBSTANTIATE THE ISOLATOR'S CAPACITY FOR VERTICAL AND LATERAL LOADS. CALCULATIONS MUST ALSO BE SUBMITTED (WHETHER PRE-APPROVED OR NOT) OR SUBSTANTIATE THE SIZE, QUANTITY, LOCATION, AND CONNECTION TO STRUCTURE OF THE ISOLATOR. THE DRAWINGS MUST BE CLOSELY COORDINATED WITH THE CALCULATIONS AND CLEARLY SPECIFY THE MANUFACTURER. EACH PIECE OF EQUIPMENT AND HOW IT IS ATTACHED TO THE STRUCTURE ISOLATORS WHICH SUPPORT A COMPONENT INSIDE THE ACTUAL UNIT (BLACK BOX) WILL NOT BE REVIEWED.
5. WHERE CONCRETE AND MASONRY EXPANSION OR ADHESIVE TYPE ANCHORS ARE USED, THE ANCHORAGE DETAILS AND CALCULATIONS SHALL INDICATE MANUFACTURER ICBO REPORT NO. TYPE, DIAMETER, MINIMUM EMBEDMENT, CONCRETE TYPE(S), AND STRENGTH(S).
6. WHEN INSTALLING DRILLED-IN ANCHORS IN EXISTING NON-PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. LOCATE REIN-FORCEMENT BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHORS AND/OR PIN.
7. NO POWDER DRIVEN FASTENERS AND/OR SHOT PINS ARE ALLOWED FOR HANGING OF DUCTWORK AND PIPING SYSTEMS.
8. ALL EXPANSION ANCHORS (LOADED IN PULLOUT OR SHEAR) SHALL HAVE 50% OF THE BOLTS TESTED. IF ANY ANCHOR FAILS TESTING, TEST ALL ANCHORS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL 20 CONSECUTIVE PASS, THEN RESUME THE INITIAL TESTING FREQUENCY. TESTING SHALL OCCUR 24 HOURS MINIMUM AFTER INSTALLATION OF THE SUBJECT ANCHORS, IN ACCORDANCE WITH 1R19-1.
9. THE STRUCTURAL ENGINEER OF RECORD (SEOR) SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

5 RESRAINT & BRANCH LINE BRACING

ALL SPRINKLER SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH 2019 CALIFORNIA BUILDING CODE, 2019 CALIFORNIA FIRE CODE AND NFPA 13, 2016 EDITION REQUIREMENTS.

9.3.5.5 LATERAL SWAY BRACE

9.3.5.5.1 LATERAL SWAY BRACING SHALL BE PROVIDED ON ALL FEED AND CROSS MAINS REGARDLESS OF SIZE AND ALL BRANCH LINES AND OTHER PIPING WITH A DIAMETER OF 2-1/2 INCHES AND LARGER.
9.3.5.5.1.1 WHERE BRANCH LINES ARE NOT PROVIDED WITH LATERAL SWAY BRACING, THEY SHALL BE PROVIDED WITH RESTRAINT IN ACCORDANCE WITH 9.3.6.
9.3.5.5.2.2 SPACING SHALL NOT EXCEED A MAXIMUM INTERVAL OF 40 FT ON CENTER.

9.3.5.6 LONGITUDINAL SWAY BRACE

9.3.5.6.1 LONGITUDINAL SWAY BRACING SPACED AT A MAXIMUM OF 80 FT ON CENTER SHALL BE PROVIDED FOR FEED AND CROSS MAINS.
9.3.5.6.2 LONGITUDINAL BRACES SHALL BE ALLOWED TO ACT AS LATERAL BRACES IF THEY ARE WITHIN 24 INCHES OF THE CENTERLINE OF THE PIPING BRACED LATERALLY.
9.3.5.6.3 THE DISTANCE BETWEEN THE LAST BRACE AND THE END OF THE PIPE OR A CHANGE IN DIRECTION SHALL NOT EXCEED 40 FT.

9.3.5.8 SWAY BRACING OF RISERS

9.3.5.8.1 TOPS OF RISERS EXCEEDING 3 FT IN LENGTH SHALL BE PROVIDED WITH FOUR-WAY BRACE.
9.3.5.8.2 RISER NIPPLES SHALL BE PERMITTED TO OMIT THE FOUR-WAY BRACE REQUIRED BY 9.3.5.8.1.
9.3.5.8.3 WHEN A FOUR-WAY BRACE AT THE TOP OF A RISER IS ATTACHED ON THE HORIZONTAL PIPING, IT SHALL BE WITHIN 24 INCHES OF THE CENTERLINE OF THE RISER AND THE LOADS FOR THAT BRACE SHALL INCLUDE BOH THE VERTICAL AND HORIZONTAL PIPE.
9.3.5.8.4 DISTANCE BETWEEN THE FOUR-WAY BRACES FOR RISERS SHALL NOT EXCEED 25 FT.
9.3.5.8.5 FOUR-WAY BRACING SHALL NOT BE REQUIRED WHEERE RISERS PENETRATE INTERMEDIATE FLOORS IN MULTI-STORY BUILDINGS WHERE THE CLEARANCE DOES NOT EXCEED THE LIMITS OF 9.3.4.

9.3.6.2 WIRE RESTRAINT

9.3.6.2.1 WIRE USED FOR RESTRAINT SHALL BE LOCATED WITH 2 FT. OF A HANGER.
9.3.6.2.2 THE HANGER CLOSEST TO A WIRE RESTRAINT SHALL BE OF A TYPE THAT RESISTS UPWARD MOVEMENT OF A BRANCH LINE.
9.3.6.3 THE END SPRINKLER ON A BRANCH LINE SHALL BE RESTRAINED.
9.3.6.4 BRANCH LINES SHALL BE LATERALLY RESTRAINED AT INTERVALS NOT EXCEEDING THOSE SPECIFIED IN TABLE 9.3.6.4(A) OR TABLE 9.3.6.4(B) BASED ON BRANCH LINE DIAMTER AND VALUE OF Qp.
9.3.6.5 WHERE THE BRANCH LINES ARE SUPPORTED BY RODS LESS THAN 6 INCHES LONG MEASURED BETWEEN THE TOP OF THE PIPE AND THE POINT OF ATTACHMENT TO THE BUILDING STRUCTURE, THE REQUIREMENTS OF 9.3.6.1 THROUGH 9.3.6.4 SHALL NOT APPLY AND ADDITIONAL RESTRAINT SHALL NOT BE REQUIRED FOR THE BRANCH LINES.

4 SCOPE OF WORK

- PROVIDE FULL SPRINKLER SYSTEM IN NEW BUILDING IN ACCORDANCE WITH ALL 2019 CALIFORNIA BUILDING AND FIRE CODE REQUIREMENTS.

3 GENERAL NOTES

1. FIRE PROTECTION CONTRACTOR SHALL COORDINATE LOCATION OF ALL SPRINKLER HEADS AND PIPING WITH STRUCTURAL ELEMENTS, MECHANICAL, PLUMBING, ELECTRICAL EQUIPMENT AND CEILING CONFIGURATION INDICATED ON DRAWINGS. WHERE NECESSARY SPRINKLER CONTRACTOR SHALL PROVIDE ADDITIONAL SPRINKLERS TO ASSURE REQUIRED DISCHARGE PATTERNS AROUND OBSTRUCTIONS AND DIFFERENT CEILING ELEVATIONS TO YIELD A PROPER DENSITY (gpm / sq. ft.) FOR THE DESIGNED HAZARD.
2. ALL PIPING, FITTINGS AND JOINTS IN SPRINKLER AND STANDPIPE SYSTEMS SHALL CONFORM TO NFPA 13, NON-METALLIC PIPE AND FITTINGS ARE UNACCEPTABLE.
3. ALL VALVES WILL BE READILY ACCESSIBLE FROM A SAFE HEIGHT ON A SIX FOOT LADDER AND TO BE CLEAR OF ALL OBSTRUCTIONS AND THEIR OPERATION SHALL NOT BE ENCUMBERED BY ANY DEVICE OR EQUIPMENT.
4. INSTALL ALL OVERHEAD HANGERS AND SUPPORTS PRIOR TO SPRAY FIREPROOFING OR DRYWALL CEILING.
5. ALL SPRINKLER SYSTEMS SHALL BE EQUIPPED WITH A BACKFLOW PREVENTION DEVICE OF THE TYPE REQUIRED FOR THE GIVEN CONDITIONS IN ACCORDANCE WITH ALL NFPA REQUIREMENTS. AS A MINIMUM, A DOUBLE CHECK VALVE TYPE DEVICE IS REQUIRED. THE DEVICE SHALL BE INSTALLED WITHIN 36 INCHES FROM WHERE THE FIRE SERVICE ENTERS THE FACILITY. ALL BACKFLOW PREVENTERS SHALL BE ELECTRICALLY SUPERVISED BY THE FIRE ALARM CONTROL PANEL. PIPE SLEEVING SHALL BE IN ACCORDANCE WITH NFPA FOR EARTHQUAKE REQUIREMENTS.
6. SPRINKLER PIPING IS TO BE BRACED AND RESTRAINED (BRANCH LINES) IN ACCORDANCE WITH NFPA 13 FOR SEISMIC REQUIREMENTS.
7. EXTENDED COVERAGE SPRINKLERS WILL BE ACCEPTABLE.
8. THE ENTIRE NEW BUILDING SHALL BE COMPLETELY SPRINKLERED WITH A WET PIPE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13 FOR LIGHT HAZARD OCCUPANCY, UNLESS NOTED OTHERWISE.
9. SPRINKLER SYSTEM SHALL BE ZONED AS SHOWN ON DRAWINGS.
10. THIS IS A GENERAL LIST OF ABBREVIATIONS AND SYMBOLS ON THIS SHEET. SOME ABBREVIATIONS AND SYMBOLS MAY NOT BE APPLICABLE TO THIS PROJECT.
11. THE SPACE ABOVE THE CEILING IS LIMITED AND THE INSTALLATION OF WORK WILL BE TIGHT. DUE TO THIS, IT IS IMPORTANT THAT THE TRADE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THEIR WORK WITH THE CEILING SYSTEM HEIGHT AND CONSTRUCTION OF THE STRUCTURAL SYSTEM, THE LIGHTING FIXTURES, THE SPRINKLER HEADS/MAINS AND THE PLUMBING PIPES. ROUTE PIPING AS HIGH AS POSSIBLE. MAINTAIN PROPER SERVICE ACCESS CLEARANCE. ACCURATE SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO FIELD INSTALLATION.
12. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND MAY NOT SHOW EXACT ROUTING OR ALL REQUIRED OFFSETS, ACCESSORIES OR APPURTENANCES. CONTRACTOR SHALL PROVIDE AS REQUIRED TO INSTALL A COMPLETE AND COORDINATED JOB, INCLUDING ANY ADDITIONAL ITEMS REQUIRED TO MEET ACTUAL FIELD CONDITIONS AND EQUIPMENT SELECTED.
14. REFER TO ACOUSTIC ENGINEERS REQUIREMENTS FOR PROVISIONS ON FIRE PROTECTION SYSTEMS WHERE SOUND AND VIBRATION ISOLATION IS REQUIRED.
15. ANY PIPING LOCATED WITHIN PLENUM SPACES SHALL COMPLY WITH CALIFORNIA MECHANICAL CODE SECTION 602.2 REQUIREMENTS.

2 SYMBOLS

FP	FIRE PROTECTION PIPING (FP)
EX. FP	FIRE PROTECTION PIPING (FP) EXISTING
	FIRE PROTECTION PIPING (FP) DEMO
CA	CLEAN AGENT PIPING (CA)
EX. CA	CLEAN AGENT PIPING (CA) EXISTING
	CLEAN AGENT PIPING (CA) DEMO
	DIRECTION OF FLOW
	PIPE ANCHOR
	UNION
	VALVE
	OS&Y VALVE
	CHECK VALVE (SHOWN W/FLOW)
PIV	POST INDICATOR VALVE
DPV	DRY PIPE VALVE
	SOLENOID VALVE
	CONTROL VALVE
D	DELUGE VALVE
	CONCEALED SPRINKLER HEAD
	UPRIGHT SPRINKLER HEAD
	PENDENT SPRINKLER HEAD
	SEMI RECESSED SPRINKLER HEAD
	SIDEWALL SPRINKLER HEAD
	PENDENT ON/OFF SPRINKLER HEAD
	SECURITY PENDENT SPRINKLER HEAD
	BACKFLOW PREVENTER (BFP)
	BOTTOM DROP
	ELBOW DOWN
	ELBOW UP
E	CAPPED PIPING
	PUMP (SCHEMATIC)
FDV	FIRE DEPARTMENT VALVE
FHC	FIRE HOSE CABINET
	FIRE DEPARTMENT HOSE VALVE
FDC	FIRE DEPARTMENT CONNECTION
	FREE-STANDING FIRE DEPARTMENT CONNECTION
FPT	FLUSH FIRE PUMP TEST HEADER
	FREE-STANDING FIRE PUMP TEST HEADER
	FLOW SWITCH
	PRESSURE SWITCH
UV	ULTRA VIOLET DETECTOR
I	IONIZATION DETECTOR (SMOKE)
R	RATE OF RISE DETECTOR
	PHOTOELECTRIC DETECTOR
P	MANUAL PULL STATION
	HORN
	HORN W/ STROBE LIGHT
A	ABORT SWITCH (DEADMAN TYPE)
	ROTATING BEACON
CP	CONTROL PANEL
FSA	FIRE STATUS ANNUNCIATOR
D	HEAT DETECTOR
	CEILING CLEAN AGENT NOZZLE
U	SUB-FLOOR CLEAN AGENT NOZZLE
	WARNING LIGHT
T	CLEAN AGENT STORAGE TANK
VLC	LASER COMPACT
VLP	LASER PLUS
VLS	LASER SCANNER
VPS	POWER SUPPLY
VRD	REMOTE DISPLAY
	AIR SAMPLING NOZZLE
	AIR SAMPLING PORT
	POINT OF CONNECTION (NEW TO EXISTING)
	POINT OF CONNECTION (NEW TO EXISTING)
FP 1	RISER INDICATOR / DETAIL NO. TOP INDICATES TYPE OF RISER / DETAIL NO. BOTTOM INDICATES RISER NUMBER / DWG NO.
FP 1	RISER INDICATOR - TOP INDICATES TYPE OF RISER. BOTTOM INDICATES RISER NUMBER (ARROW INDICATES DIRECTIONAL VIEW OF ISOMETRIC RISERS)
1 F101	SECTION INDICATOR TOP INDICATES SECTION NUMBER BOTTOM INDICATES DRAWING NUMBER
	KEYED NOTE TAG
XX	NEW EQUIPMENT TAG
(E)XXX	EXISTING EQUIPMENT TAG EXISTING
	AREA MATCHLINE

1 ABBREVIATIONS

AC	AIR COMPRESSOR
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AP	ACCESS PANEL
ARCH	ARCHITECTURE
ASSY	ASSEMBLY
ATM	ARMOSPHERE
AUTO	AUTOMATIC
AUX	AUXILLARY
BOB	BOTTOM OF BEAM
BOP	BOTTOM OF PIPE
CA	COMPRESSED AIR OR CLEAN AGENT
CALCS	CALCULATIONS
CAP	CAPACITY
CC	CEILING COLUMN
CCD	CHICAGO CITY DATUM
CLG	CEILING
cm	CENTIMETER
CO2	CARBON DIOXIDE
COL	COLUMN
CONC	CONCRETE
CONN.	CONNECTION
CONT.	CONTINUED
CSP	COMBINED STANDPIPE/SPRINKLER SYSTEM
CV	CHECK VALVE
DCV	DOUBLE CHECK VALVE
DDCV	DOUBLE DETECTOR CHECK VALVE
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DR	DRAIN
DPV	DRY PIPE VALVE
DV	DRAIN VALVE
DWG	DRAWING
EA	EACH
ELEV.	ELEVATION
ELEC	ELECTRICAL
EQUIP	EQUIPMENT
EX	EXISTING
EXIST	EXISTING
EXP	EXPANSION
F	FARENHEIT
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
FD1,2,3...	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDV	FIRE DEPARTMENT VALVE
FEC	FIRE EXTINGUISHER CABINET
FIN	FINISHED
FH	FIRE HOSE
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FLR	FLOOR
FP	FIRE PROTECTION
FPC	FIRE PUMP CONTROLLER
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FPTC	FIRE PUMP TEST CONNECTION
FS	FLOW SWITCH
FT	FEET
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
IN	INCHES
ITC	INSPECTORS TEST CONNECTION
MD	MAIN DRAIN
N&C	NIPPLE AND CAP
NA	NOT APPLICABLE
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO.	NUMBER
N.O.	NORMALLY OPEN
NS	NOT SPRINKLERED
NTS	NOT TO SCALE
OSW	OPEN SITE WASTE
OS&Y	OUTSIDE SCREW AND YOKE
P	PUMP
PG	PRESSURE GAUGE
PIV	POST INDICATOR VALVE
PKG	PACKAGE
POC	POINT OF CONNECTION
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
QTY	QUANTITY
RN	RISER NIPPLE
RPM	REVOLUTIONS PER MINUTE
SCV	SECTIONAL CONTROL VALVE W/ TAMPER SWITCH
SP	STANDPIPE
SPKR	SPRINKLER
SPR	SPRINKLER RISER
SUB-CONTR.	SUB CONTRACTOR
SYS	SYSTEM
TB	THRUST BLOCK
TEMP	TEMPERATURE
TH	THERMOMETER
TS	TAMPER SWITCH
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS OTHERWISE NOTED
VEL	VELOCITY
VERT	VERTICAL
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WIP	WALL INDICATOR POST

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REGISTERED PROFESSIONAL ENGINEER — MICHAEL GRATTAN — PE 37690 — Exp. 3/31/22 — MECHANICAL — STATE OF CALIFORNIA

Drawing Title:

FIRE PROTECTION LEGENDS, SYMBOLS & ABBREVIATIONS

Issue Date: 11/29/2021
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SPRINKLER SCHEDULE

SYMBOL	MANUFACTURER	MODEL	TYPE	AREA SERVED	K-FACTOR	TEMPERATURE	SPRINKLER FINISH	SPRINKLER COVER OR ESCUTCHEON FINISH	REMARKS
○	TYCO	TY3121	UPRIGHT	ALL AREAS WITHOUT CEILINGS	5.6	165°F	BRASS	----------	UL/FM APPROVED, QUICK RESPONSE, W/ SPRINKLER GUARD WHERE SUBJECT TO DAMAGE
◉	TYCO	TY3221	SEMI-RECESSED PENDENT	ALL LOW RISK AREAS UNLESS NOTED OTHERWISE	5.6	165°F	CHROME	CHROME	UL/FM APPROVED, QUICK RESPONSE, W/ SPRINKLER GUARD WHERE SUBJECT TO DAMAGE
◒	TYCO	TY3281	INSTITUTIONAL FLUSH PENDENT	ALL MEDIUM OR HIGH RISK AREAS (LEVELS 2-5)	5.6	165°F	CHROME	CHROME	UL/FM APPROVED, QUICK RESPONSE

2 NOTES:

1. PROVIDE SPRINKLERS WITHIN BORDERED AREA TO COMPLY WITH NFPA 13 LIGHT HAZARD REQUIREMENTS, UNLESS NOTED OTHERWISE.
2. PROVIDE SPRINKLERS WITHIN BORDERED AREA TO COMPLY WITH NFPA 13 ORDINARY HAZARD, GROUP 1.
3. 4" FP RISER. REFER TO DETAIL F0601 FOR MORE INFORMATION. SEE CIVIL DRAWINGS FOR FDC LOCATION.



1 LEVEL 01 FIRE PROTECTION PLAN
1/8" = 1'-0"

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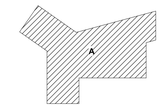
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KEY PLAN



KEY PLAN

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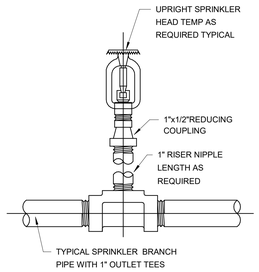
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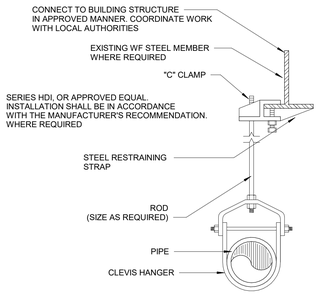
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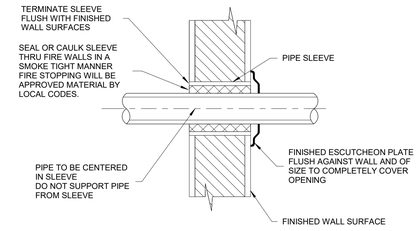


10 UPRIGHT SPRINKLER HEAD DETAIL
NTS

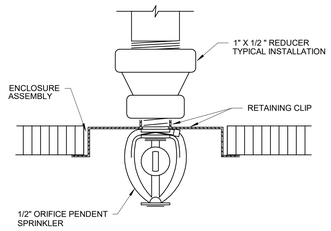


1. CLEVIS HANGERS REQUIRED ON PIPING LARGER THAN 1"

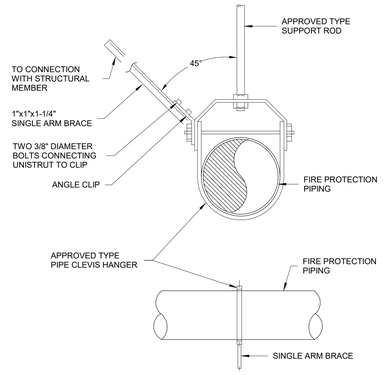
6 ADJUSTABLE CLEVIS PIPE SUPPORT
NTS



3 PIPE SLEEVE THROUGH INTERIOR FIRE RATED WALL
NTS

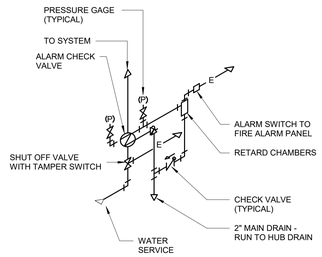


9 SEMI-RECESSED SPRINKLER HEAD DETAIL
NTS

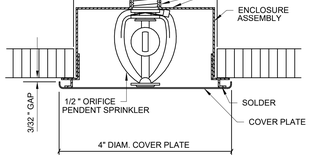


PLAN VIEW OF BRACING

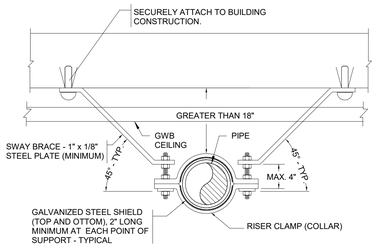
5 TRANSVERSE AND LONGITUDINAL CABLE BRACE FOR CLEVIS HUNG PIPING DETAIL
NTS



2 ALARM CHECK VALVE DETAIL
NTS

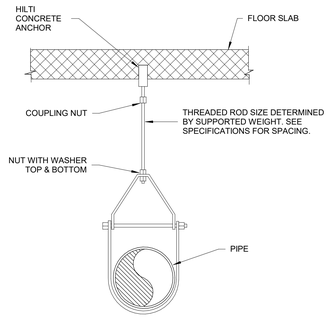


8 CONCEALED SPRINKLER HEAD DETAIL
NTS



NOTE:
WHEN PIPING IS SUSPENDED IN EXCESS OF 18" BELOW STRUCTURE, SWAY BRACING SHALL BE PROVIDED TO PREVENT HORIZONTAL MOVEMENT. LOCATE BRACING EVERY 30 FEET ON STRAIGHT RUNS WITH AT LEAST ONE BRACE ON OFFSETS IN EXCESS OF 10 FEET.

7 SWAY BRACING FOR SPRINKLER HORIZONTAL PIPING
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4 CLEVIS HANGER DETAIL
NTS

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FIRE PROTECTION DETAILS

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ABBREVIATIONS

A/C	AIR CONDITIONING	CA	COMPRESSED AIR	D	DRAIN OR DRYER	EWB	ENTERING WET BULB TEMPERATURE	H	HUMIDISTAT OR HUMIDIFIER	M	MOTOR OPERATOR	PH	PHASE	3SF	3 HOUR SMOKE FIRE DAMPER
A/E	ARCHITECT/ENGINEER	CAI	COMBUSTION AIR INTAKE	DB	DECIBEL OR DRY BULB TEMPERATURE	EWT	ENTERING WATER TEMPERATURE	HC	HEATING COIL	MAINT	MAINTENANCE	PLBG	PLUMBING	TC	TEMPERATURE CONTROL
AAV	AUTOMATIC AIR VENT (VALVE)	CAP	CAPACITY	DDC	DIRECT DIGITAL CONTROL	EXH	EXHAUST	HEPA	HIGH EFFICIENCY PARTICULATE AIR FILTER	MAU	MAKE-UP AIR UNIT	PRESS	PRESSURE	TD	TRANSFER DUCT
ABV	ABOVE	CC	COOLING COIL	DEG.F	DEGREE FAHRENHEIT	EX	EXISTING	HG	HOT GAS	MAX	MAXIMUM	PROP	PROPELLER	TEMP	TEMPERATURE
ACCU	AIR-COOLED CONDENSING UNIT	CCW	COUNTER CLOCKWISE	DEMO	DEMOLISH	EXIST	EXISTING	HL	HIGH LIMIT	MBH	THOUSAND BTU PER HOUR	PRV	PRESSURE REDUCING VALVE	TL	TOTAL LOAD
ACH	AIR CHANGES PER HOUR	CD	CONDENSATE DRAIN	DG	DOOR GRILLE	EXT	EXTERNAL	HORIZ	HORIZONTAL	MCC	MOTOR CONTROL CENTER	PSF	POUNDS PER SQUARE FOOT	TO	TRANSFER OPENING
ACU	AIR CURTAIN	CENTRIF	CENTRIFUGAL	DIA	DIAMETER			HP	HORSEPOWER OR HEAT PUMP	MECH	MECHANICAL	PSI	POUNDS PER SQUARE INCH	TSP	TOTAL STATIC PRESSURE
AD	ACCESS DOOR	CF	CUBIC FEET	DIAG	DIAGONAL	F	FAHRENHEIT	HPR	HIGH PRESSURE CONDENSATE RETURN	MERV	MINIMUM EFFICIENCY REPORTING VALUE	PSIA	POUNDS PER SQUARE IN ABSOLUTE	TSTAT	THERMOSTAT
AF	AIR FOIL FAN	CFH	CUBIC FEET PER HOUR	DIFF	DIFFUSER	F&T	FLOAT & THERMOSTATIC STEAM TRAP	HPS	HIGH PRESSURE STEAM	MEZZ	MEZZANINE	PSIG	POUNDS PER SQUARE IN GAUGE	TU	TERMINAL UNIT
AFF	ABOVE FINISHED FLOOR	CFM	CUBIC FEET PER MINUTE	DIM	DIMENSION	F.D.	FLOOR DRAIN	HR	HOUR	MFR	MANUFACTURER			TYP	TYPICAL
AFMS	AIR FLOW MEASURING STATION	CH	CABINET HEATER	DISCH	DISCHARGE	FA	FREE AREA	HRC	HEAT RECOVERY COIL	MIN	MINIMUM	QTY	QUANTITY		
AHU	AIR HANDLING UNIT	CHR	CHILLER	DN	DOWN	FBF	FILTER BOOSTER FAN	HT	HEIGHT	MISC	MISCELLANEOUS			UGRD	UNDERGROUND
ALT	ALTERNATE	CHWR	CHILLED WATER RETURN	DP	DIFFERENTIAL PRESSURE	FC	FORWARD CURVED	HTG	HEATING	MPR	MEDIUM PRESSURE CONDENSATE RETURN	R	RETURN	UH	UNIT HEATER (HYDRONIC OR STEAM)
ALUM	ALUMINUM	CHWS	CHILLED WATER SUPPLY	DPDT	DOUBLE POLE, DOUBLE THROW	FCU	FAN COIL UNIT	HTWR	HIGH TEMPERATURE WATER RETURN	MPS	MEDIUM PRESSURE STEAM	RA	RETURN AIR	UNO	UNLESS NOTED OTHERWISE
AMP	AMPERE	CI	CAST IRON	DPST	DOUBLE POLE, SINGLE THROW	FD	FIRE DAMPER	HTWS	HIGH TEMPERATURE WATER SUPPLY	MTD	MOUNTED	RAD	RADIATION	UPS	UNINTERUPTIBLE POWER SUPPLY
AP	ACCESS PANEL	CL	CENTER LINE	DTR	DUAL TEMPERATURE RETURN	FF	FINAL FILTER	HUM	HUMIDIFIER			REBAL	REBALANCE	UV	UNIT VENTILATOR
APD	AIR PRESSURE DROP	CLG	COOLING	DTS	DUAL TEMPERATURE SUPPLY	FH	FUME HOOD	HVAC	HEAT, VENTILATION, & AIR CONDITIONING	N.C.	NORMALLY CLOSED	REG	REGISTER		
APPROX	APPROXIMATE	CO	CLEAN OUT	DWDI	DOUBLE WIDTH, DOUBLE INLET	FLA	FULL LOAD AMPERES	HVU	HEATING & VENTILATING UNIT	N.O.	NORMALLY OPEN	REV	REVISED	V	VOLT OR VENT
ARCH	ARCHITECT/ARCHITECTURAL	CO2	CARBON DIOXIDE	DWG	DRAWING	FLEX	FLEXIBLE	HWR	HOT WATER RETURN	NC	NOISE CRITERIA	RF	RETURN AIR FAN	VAV	VARIABLE AIR VOLUME
AS	AIR SEPARATOR	COMP	COMPRESSOR	DX	DIRECT EXPANSION	FLR	FLOOR	HWS	HOT WATER SUPPLY	NIC	NOT IN CONTRACT	RH	RELATIVE HUMIDITY	VD	VOLUME DAMPER
ATD	AIR TRANSFER DUCT	CONC	CONCRETE			FLT	FLASH TANK	HX	HEAT EXCHANGER	NO. OR #	NUMBER	RHC	REHEAT COIL	VEL	VELOCITY
AUTO	AUTOMATIC	CONN	CONNECTION	E/P	ELECTRIC-PNEUMATIC	FM	FLOW METER	HZ	HERTZ	NR	NOT REQUIRED	RHG	REFRIGERANT HOT GAS	VERT	VERTICAL
AVG	AVERAGE	CONST	CONSTRUCTION	EA	EXHAUST AIR	FOG	FUEL OIL GAUGE			NTS	NOT TO SCALE	RL	REFRIGERANT LIQUID	VI	VIBRATION ISOLATION
AWT	AVERAGE WATER TEMPERATURE	CONT	CONTINUOUS, CONTINUATION	EAT	ENTERING AIR TEMPERATURE	FOR	FUEL OIL RETURN	ID	INSIDE DIAMETER	NV	NATURAL VENTILATION	RM	ROOM	VIF	VERIFY IN FIELD
AXF	AXIAL FAN	CONTR	CONTRACTOR	EBB	ELECTRIC BASEBOARD HEATER	FOS	FUEL OIL SUPPLY	IN OR "	INCHES			RO	RELIEF OPENING	VOL	VOLUME
		CONV	CONVECTOR	EC	EXPANSION COMPENSATOR/JOINT	FOV	FUEL OIL VENT	IN W.C.	INCHES WATER COLUMN	OA	OUTSIDE AIR	RP	RADIANT PANEL	VR	VACUUM RETURN
BB	BASEBOARD RADIATION	CP	CONTROL PANEL	ECWR	EQUIPMENT COOLING WATER RETURN	FP	FIRE PROTECTION	IN W.G.	INCHES WATER GAUGE	OAI	OUTSIDE AIR INTAKE	RPM	REVOLUTIONS PER MINUTE	VRV	VARIABLE REFRIGERANT VOLUME
BDD	BACK DRAFT DAMPER	CT	COOLING TOWER	ECWS	EQUIPMENT COOLING WATER SUPPLY	FPB	FAN POWERED TERMINAL UNIT	INSUL	INSULATION	OBD	OPPOSED BLADE DAMPER	RS	REFRIGERANT SUCTION	VSD	VARIABLE SPEED DRIVE
BF	BOILER FEED WATER	CU	CONDENSING/ER UNIT	EDB	ENTERING DRY BULB TEMPERATURE	FPM	FEET PER MINUTE	INT	INTERNAL	OED	OPEN END DUCT	RTU	ROOF TOP UNIT	VTR	VENT THROUGH ROOF
BG	BOTTOM GRILLE (3"-12" ABOVE FLOOR)	CU FT	CUBIC FEET	EER	ENERGY EFFICIENCY RATIO	FPS	FEET PER SECOND			OFCI	OWNER FURNISHED/CONTRACTOR INSTALLED	RV	REFRIGERANT VENT OR RELIEF VALVE (VENT)		
BHP	BRAKE HORSEPOWER	CV	CONSTANT VOLUME	EF	EXHAUST FAN	FR	FINNED RADIATION			OFOI	OWNER FURNISHED/OWNER INSTALLED	RV	RETURN AIR VALVE	W	WATT
BLDG	BUILDING	CV	CONSTANT VOLUME	EFF	EFFICIENCY	FSTAT	FREEZESTAT	KW	KILOWATT	OH	OVERHEAD	RVAV	RETURN VARIABLE AIR VOLUME	W.G.	WATER GAGE
BMS	BUILDING MANAGEMENT SYSTEM	CWR	CONDENSER WATER RETURN	EHC	ELECTRIC HEATING COIL	FT	FEET	KWH	KILOWATT HOUR	OPNG	OPENING			W/	WITH
BOD	BOTTOM OF DUCT	CWS	CONDENSER WATER SUPPLY	EL/ELEV	ELEVATION	FV	FACE VELOCITY					S/W	SUMMER-WINTER	W/O	WITHOUT
BR	BOTTOM REGISTER (3"-12" ABOVE FLOOR)			ELEC	ELECTRIC/ELECTRICAL			LAT	LEAVING AIR TEMPERATURE	ΔP/DP	DIFFERENTIAL PRESSURE	SA	SUPPLY AIR OR SOUND ATTENUATOR	WB	WET BULB TEMPERATURE
BSMT	BASEMENT			ELEM	ELEMENT	G	NATURAL GAS	LBS	POUNDS	P	PUMP	SCR	SILICON CONTROLLED RECTIFIER	WC	WATER COLUMN
BTU	BRITISH THERMAL UNIT			ELEV	ELEVATOR	GA	GAUGE	LDB	LEAVING DRY BULB TEMPERATURE	P/E	PNEUMATIC-ELECTRIC SWITCH	SD	SMOKE DETECTOR	WMS	WIRE MESH SCREEN
BTUH	BRITISH THERMAL UNIT PER HOUR			EMD	END OF MAIN DRIP (STEAM)	GAL	GALLON	LF	LINEAR FEET	PA	PASCAL	SENS	SENSIBLE LOAD	WPD	WATER PRESSURE DROP
				EMER	EMERGENCY	GCWR	GEOTHERMAL CONDENSER WATER RETURN	LPG	LIQUID PETROLEUM GAS	PCD	PUMPED CONDENSATE DISCHARGE/RETURN	SFD	SMOKE-FIRE DAMPER	WT	WEIGHT
				ENG	ENGINEER	GCWS	GEOTHERMAL CONDENSER WATER SUPPLY	LPR	LOW PRESSURE CONDENSATE RETURN	PCF	POUNDS PER CUBIC FOOT	SHT	SHEET	WTR	WATER
				ENT	ENTERING	GD	GRAVITY DAMPER	LPS	LOW PRESSURE STEAM	PCWR	PROCESSED CHILLED WATER RETURN	SM	SMOKE DAMPER		
				ERP	ELECTRIC RADIANT PANEL	GPH	GALLONS PER HOUR	LRA	LOCKED ROTOR AMPERES	PCWS	PROCESSED CHILLED WATER SUPPLY	SOL	SOLENOID		
				ESP	EXTERNAL STATIC PRESSURE	GPM	GALLONS PER MINUTE	LVG	LEAVING	PD	PRESSURE DROP	SP	STATIC PRESSURE		
				EST	ESTIMATE	GR	GLYCOL RETURN	LVR	LOUVER	PF	PROPELLER FAN	SQ	SQUARE		
				ET	EXPANSION TANK	GRL	GRILLE	LWB	LEAVING WET BULB TEMPERATURE	PG	PRESSURE GAUGE	SQ. FT.	SQUARE FEET		
				ETO	ETHYLENE OXIDE	GRV	GRAVITY RELIEF VENT	LWT	LEAVING WATER TEMPERATURE			SS	STAINLESS STEEL		
				EUH	ELECTRIC UNIT HEATER	GS	GLYCOL SUPPLY					STD	STANDARD		
				EV	EXHAUST AIR VALVE	GV	GRAVITY VENTILOR OR NATURAL GAS VENT					STL	STEEL		
				EVAV	EXHAUST VARIABLE AIR VOLUME							STM	STEAM		
				EVAP	EVAPORATOR							STRUC	STRUCTURE/STRUCTURAL		
				EVF	FUME HOOD EXHAUST AIR VALVE							SV	SUPPLY AIR VALVE		
				EVL	LAB EXHAUST AIR VALVE							SWSI	SINGLE WIDTH, SINGLE INLET		

SYMBOLS

- SUPPLY DUCT RISE
- RETURN DUCT RISE
- EXHAUST DUCT RISE
- SUPPLY DUCT DROP
- RETURN DUCT DROP
- EXHAUST DUCT DROP
- NEW DUCT
- EXISTING DUCT
- DEMOED DUCT
- CAPPED DUCTWORK
- DUCT OFF-SET DN (IN DIRECTION OF FLOW) — DN
- DUCT OFF-SET UP (IN DIRECTION OF FLOW) — UP
- RECTANGULAR DUCT DIMENSIONS (SIZE IN INCHES, FIRST DIMENSION IS SHOWN) — 24x12
- ROUND DUCT DIMENSIONS (DIAMETER) — 24"Ø
- OVAL DUCT DIMENSIONS (SIZE IN INCHES, FIRST DIMENSION IS SHOWN) — 24x12 OV
- CAPPED PIPING OR SINGLE DUCTWORK
- SINGLE LINE SUPPLY DUCT
- SINGLE LINE RETURN DUCT
- SINGLE LINE EXHAUST DUCT
- EXISTING SINGLE LINE DUCT
- EXISTING ITEM TO BE REMOVED
- SINGLE LINE DUCT RISE OR DROP
- ELBOW WITH TURNING VANES
- FLEXIBLE DUCT — OR
- OPPOSED BLADE VOLUME DAMPERS — OR
- VOLUME DAMPER
- FIRE, SMOKE/FIRE, OR SMOKE DAMPER IN RISER — FD,SF, OR SM
- FIRE, SMOKE/FIRE, OR SMOKE DAMPER — FD,SF, OR SM
- MOTORIZED DAMPER — M
- BACKDRAFT DAMPER — BDD
- TEMPERATURE SENSOR (IN DUCT OR PIPE) — T
- RECTANGULAR WYE DUCT FITTING
- POINT OF CONNECTION (NEW TO EXISTING)
- POINT OF DEMOLITION
- NEW HVAC PIPE
- EXISTING HVAC PIPE
- EXISTING HVAC PIPE TO BE REMOVED
- PIPE ELBOW DOWN
- PIPE ELBOW UP
- PIPE RISE OR DROP
- PIPE BOTTOM DROP
- ROUND (DIAMETER) — "Ø
- CONTROL VALVE (2-WAY)
- CONTROL VALVE (3-WAY)
- TRIPLE DUTY VALVE
- CHECK VALVE (SHOWN W/FLOW)
- BALANCING VALVE
- SOLENOID VALVE
- PRESSURE REDUCING VALVE
- SAFETY/RELIEF VALVE
- VALVE
- UNION
- HOSE DRAIN VALVE WITH CAP — HD
- MANUAL AIR VENT — MAV
- CLEANOUT (CO) — CO
- PRESSURE/TEMPERATURE TEST PORT
- EXPANSION JOINT
- EXPANSION LOOP
- STRAINER W/BLOWDOWN VALVE
- PIPING FLOW METER — FM
- TRAP — TP
- FLEXIBLE CONNECTION — OR
- PIPE GUIDE
- DIRECTION OF FLOW
- PIPE ANCHOR
- PUMP — OR
- ELECTRICAL CONNECTION (BY DIVISION 23) — E
- ELECTRICAL CONNECTION (BY DIVISION 26) — 26
- SENSING ELEMENT - AIR STREAM
- SENSING ELEMENT - LIQUID SEPARABLE WELL
- TEMPERATURE SENSOR — T
- THERMOSTAT WITH LOCKING COVER — T
- HUMIDITY SENSOR — H
- SWITCH — S
- OCCUPANCY SENSOR — OS
- PUSH BUTTON — PB
- CARBON DIOXIDE SENSOR — CO_2
- OXYGEN SENSOR — O_2
- FLOW SWITCH — FS
- PRESSURE GAGE — P
- RELAY — R
- FREEZESTAT — F
- PNEUMATIC-ELECTRIC SWITCH — P/E
- ELECTRIC-PNEUMATIC SWITCH — E/P
- PILOT LIGHT- LETTER INDICATES COLOR: G - GREEN, Y - YELLOW, R - RED — G
- VARIABLE SPEED DRIVE — VSD
- FIRESTAT — FIRE
- SMOKE DETECTOR — SMOKE
- ANALOG INPUT, TEMPERATURE — AIT
- ANALOG INPUT, PRESSURE — AIP
- ANALOG INPUT, FLOW — AIF
- ANALOG INPUT — AI
- ANALOG OUTPUT — AO
- DIGITAL OUTPUT — DO
- DIGITAL INPUT — DI
- ANALOG OUTPUT, PNEUMATIC — AOP
- ROOM PRESSURIZATION MONITOR
- DUCT SMOKE DETECTOR — D
- AIR FLOW MEASURING STATION — FM
- CURRENT SENSOR — CS
- STARTER — AUTO, HOA (H-O-A), ON, OFF
- SUPPLY AIR DEVICE - (REFER TO SCHEDULE FOR SIZE) FIRST NO. CFM, SECOND NO. TYPE (REFER TO SPECIFICATION FOR AIR DEVICE TYPE) — 200-2
- RETURN AIR DEVICE - (REFER TO SCHEDULE FOR SIZE) FIRST NO. CFM, SECOND NO. TYPE (REFER TO SPECIFICATION FOR AIR DEVICE TYPE) — 200-5
- EXHAUST AIR DEVICE - (REFER TO SCHEDULE FOR SIZE) FIRST NO. CFM, SECOND NO. TYPE (REFER TO SPECIFICATION FOR AIR DEVICE TYPE) — 200-5
- SUPPLY/ RETURN/EXHAUST SIDEWALL GRILLE- FIRST NO. CFM, SECOND NO. TYPE BOTTOM NO. WIDTH BY HEIGHT OF NOMINAL DUCT CONNNECTION (REFER TO SPECIFICATION FOR AIR DEVICE TYPE) — 200-14, 10x8
- LINEAR DIFFUSER — 250-7, 4LF-2-1 (CFM, TYPE, SLOT WIDTH (INCHES), NO. OF SLOTS, LENGTH)
- NEW EQUIPMENT — XXX-1 (TYPE NO., EQUIPMENT TYPE)
- EXISTING EQUIPMENT — EX-XXX (EXISTING, EQUIPMENT TYPE)
- CALLOUT INDICATOR TOP INDICATES NUMBER ON THE SHEET BOTTOM INDICATES SHEET NUMBER — 1 / M0101
- SECTION INDICATOR TOP INDICATES SECTION NUMBER BOTTOM INDICATES SHEET NUMBER — 1 / M0101

GENERAL NOTES

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ALL CEILING AIR DEVICE LOCATIONS.
2. REFER TO ARCHITECTURAL ELEVATION DRAWINGS FOR LOCATION OF WALL MOUNTED MECHANICAL ITEMS.
3. LOCATE ALL DUCT BALANCING DAMPERS ABOVE ACCESSIBLE CEILINGS, OR PROVIDE ACCESS DOORS. MINIMUM ACCESS DOOR SIZE SHALL BE 18x18 UNLESS OTHERWISE APPROVED BY ENGINEER.
4. DUCTWORK NOT SIZED IS GENERALLY SMALLER BRANCH ZONE DUCTS. COORDINATE ELEVATIONS AND PROVIDE NECESSARY OFFSETS. DUCTWORK SHALL BE SIZED PER THE BRANCH DUCTWORK SCHEDULE.
5. PROVIDE VOLUME DAMPERS AT ALL SUPPLY, RETURN AND EXHAUST DUCT BRANCH TAKE-OFFS. SEE DUCT CONSTRUCTION DETAILS.
6. BLANK-OFF AREAS OF LOUVERS NOT USED WITH 20 GAGE SHEET METAL DOUBLE WALL BLANK-OFF PANEL INSULATED WITH 2" RIGID FIBERBOARD. SEAL AIR TIGHT.
7. INSTALL RIGID 1"x1" GALVANIZED STEEL WIRE MESH AT ALL OPEN ENDED DUCTS IN OCCUPIED AREAS OR EXPOSED TO VIEW.
8. INSTALL ALL FLOOR MOUNTED HVAC EQUIPMENT, INCLUDING AHUS, PUMPS, BOILERS, ETC. ON 4" MINIMUM HEIGHT CONCRETE HOUSEKEEPING PAD. EXTEND PAD MINIMUM 4" BEYOND EQUIPMENT AT ALL SIDES.
9. ALL HYDRONIC BRANCH PIPING SHALL BE 3/4" UNLESS NOTED OTHERWISE.
10. PROVIDE POSITIVE DRAINAGE OF ALL PLENUMS CONNECTED TO OUTSIDE LOUVERS. WATERPROOF BOTTOM OF PLENUMS. SLOPE PLENUM BOTTOM TO LOUVER OR PROVIDE DRAIN POINTS WITH DISCHARGE TO DRAIN.

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	ISSUE FOR PLAN REVIEW BACKCHECK	21 JAN 2022
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ARCHITECT SEAL

CONSULTANT SEAL

PROFESSIONAL ENGINEER — KEITH DOUGLAS HEATHERLY — PE 37800 — Exp 3/31/22 — MECHANICAL — STATE OF CALIFORNIA

Drawing Title:

SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES

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A. GENERAL INFORMATION

01	Project Location (city)	OCEANSIDE	04	Total Conditioned Floor Area	10,823
02	Climate Zone	7	05	Total Unconditioned Floor Area	2,737
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

☐ Office (B) ☐ Retail (M) ☐ Non-refrigerated Warehouse (S)
☐ Hotel/ Motel Guest Rooms (R-1) ☐ School (F) ☑ Healthcare Facility (H)
☐ High-Rise Residential (R-2/R-3) ☐ Relocatable Class Bldg (E) ☐ Other (Write In):

[1] *FOOTNOTES: Climate zone can be determined on the California Energy Commission's website at http://www.energy.ca.gov/maps/renewable/building_climate_zones.html*

B. PROJECT SCOPE

Table Instructions: Include any mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations.

My project consists of (check all that apply)

01 Air System(s)	02 Wet System Components	03 Dry System Components
☑ Heating Air System	☐ Water Economizer	☐ Air Economizer
☑ Cooling Air System	☑ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☑ Hydronic System Piping	☑ Fan Systems
☑ Mechanical Controls	☐ Cooling Towers	☑ Ductwork
	☐ Chillers	☑ Ventilation
	☑ Boilers	☑ Zonal Systems/ Terminal Boxes

C. COMPLIANCE RESULTS

Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

01		02		03		04		05		06		07		08	09
System Summary §110.1, §110.2, §140.4 (See Table F)	AND	Pumps §140.4(k) (See Table G)	AND	Fans/ Economizers §140.4(c), §140.4(e) (See Table H)	AND	System Controls §110.2, §120.2, §140.4(f) (See Table I)	AND	Ventilation §120.1 (See Table J)	AND	Terminal Box Controls §140.4(d) (See Table K)	AND	Distribution §120.3, §140.4(l) (See Table L)	AND	Cooling Towers §110.2(e)2 (See Table M)	**Compliance Results**
Yes	AND	Yes	AND		AND	Yes	AND	Yes	AND	Yes	AND	Yes	AND		**COMPLIES**
Mandatory Measures Compliance (See Table Q for Details)															**COMPLIES**

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

The permit applicant has indicated on Table J that ventilation calculations have been attached or included elsewhere on the plans.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Table Instructions: Complete the following equipment schedules to show compliance with mandatory requirements found in §110.1 and §110.2(a) and prescriptive requirements found in §140.4(a), §140.4(b) and §140.4(k) or §141.0(b)2 for alterations.

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters)

01	02	03	04	05	06	07	08	09	10	11
				Equipment Sizing per Mechanical Schedule (Btu/h) §140.4 (a&b)						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
Name or Item Tag	Equipment Category per Tables 110.2	Equipment Type per Tables 110.2 & Title 20	Smallest Size Available[1] §140.4(a)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
AC-1/CU-1	Unitary AC/ Condensers	AC, air cooled, split (1 phase)	Yes				6	12		5.9
AC-2/CU-2	Unitary AC/ Condensers	AC, air cooled, split (1 phase)	Yes				7	12		6.6
AC-3/CU-3	Unitary AC/ Condensers	AC, air cooled, split (1 phase)	Yes				17.5	24		17.4
RTU-1	Unitary AC/ Condensers	AC, air cooled, package (3 phase)	Yes				130.4	184.7		130.4

Table Continued

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters)

01	02	03	04	05	06	07	08	09	10	11
				Equipment Sizing per Mechanical Schedule (Btu/h) §140.4 (a&b)						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
Name or Item Tag	Equipment Category per Tables 110.2	Equipment Type per Tables 110.2 & Title 20	Smallest Size Available[1] §140.4(a)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
RTU-2	Unitary AC/ Condensers	AC, air cooled, package (3 phase)	Yes				188.5	258.5		188.2

[1] FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per §140.4(a). Healthcare facilities are excepted.
[2] It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.
[3] If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.
[4] Authority Having Jurisdiction may ask for load calculations used for compliance per §140.4(b).

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))

01	02	03	04	05	06	07	08	09
		Heating Mode				Cooling Mode		
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Min Efficiency Required per Tables 110.2/ Title 20	Design Efficiency	Efficiency Unit	Min Efficiency Required per Tables 110.2/ Title 20	Design Efficiency
AC-1/CU-1	<45,000					SEER	14	20.8
						EER	12.2	12.6
AC-2/CU-2	<45,000					SEER	14	20.8
						EER	12.2	12.6
AC-3/CU-3	<45,000					SEER	14	21.4
						EER	12.2	12.2
RTU-1	≥65,000 and <135,000					EER	11.2	12.2
						IEER	12.9	13.4

Table Continued

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))

01	02	03	04	05	06	07	08	09
		Heating Mode				Cooling Mode		
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Min Efficiency Required per Tables 110.2/ Title 20	Design Efficiency	Efficiency Unit	Min Efficiency Required per Tables 110.2/ Title 20	Design Efficiency
RTU-2	≥240,000 and <760,000					EER	10	11
						IEER	11.6	12.15

Boiler Efficiency and Controls

01	02	03	04	05	06	07	08	09
Name or Item Tag	Equipment Type[1]	Qty	Rated Input Capacity (Btu/h)[2,3]	Rated Efficiency	Minimum Efficiency Required per §110.2	Efficiency Unit	Boiler Controls per §140.4(k)	
							Isolation Valve	Temperature Reset
B-1	Hot water: Gas-Fired	1	300,000 to 500,000	0.938	0.8	Et	Yes	NA: ≤ 500,000 Btu/h
B-2	Hot water: Gas-Fired	1	300,000 to 500,000	0.938	0.8	Et	Yes	NA: ≤ 500,000 Btu/h

[1] FOOTNOTES: Use NRCC-PLB to document compliance with domestic water heating equipment.
[2] Maximum capacity- minimum and maximum ratings as provided for and allowed by the unit's controls
[3] Includes oil-fired (residual)

G. PUMPS

Table Instructions: Complete the following pump schedule to show compliance with Prescriptive hydronic system requirements found in §140.4(k) applicable to pumps < 5hp.

01	02	03	04	05	06	07	08
				Controls per §140.4(k)			
Name or Item Tag	Equipment Type	Qty	HP	Variable Flow	Hydronic Heat Pump Isolation	VSD on Pumps > 5HP	Differential Pressure Sensor
BP-01	Primary heating hot water	1	1.5	Yes			

01	02	03	04	05	06	07	08
				Controls per §140.4(k)			
Name or Item Tag	Equipment Type	Qty	HP	Variable Flow	Hydronic Heat Pump Isolation	VSD on Pumps > 5HP	Differential Pressure Sensor
BP-02	Primary heating hot water	1	1.5	Yes			
HWP-01	Secondary heating hot water	1	2	Yes			
HWP-02	Primary heating hot water	1	2	Yes			

[1] FOOTNOTE: Computer room economizers must meet requirements of §140.9(a) and will be documented on the NRCC-PRC-E document.
[2] The unit used for HP must be consistent for all fans within a system.

I. SYSTEM CONTROLS

Table Instructions: Complete the following Table to demonstrate compliance with mandatory controls in §110.2 and §120.2 and prescriptive controls in §140.4(f) and (n) or requirements in §141.0(b)2E for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats §110.2(b) & (c)[1] §120.2(a) or §141.0(b)2E	Shut-Off Controls §120.2(e)	Isolation Zone Controls §120.2(g)	Demand Response §110.12 and §120.2(b)	Supply Air Temp. Reset §140.4(f)	Window Interlocks per §140.4(n)
RTU-01	multi-zone w/ DDC to zone	≤ 25,000 ft²	EMCS	EMCS	Occ. Sensor	EMCS	NA: Healthcare only	NA: Healthcare only
RTU-02	multi-zone	≤ 25,000 ft²	EMCS	EMCS	Occ. Sensor	EMCS	NA: Healthcare only	NA: Healthcare only

[1] FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.
** NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.*
EX: System 1: SA Temp Reset: Exempt because zones compliant with §140.4(d); EXCEPTION 1 to §140.4(f)

J. VENTILATION AND INDOOR AIR QUALITY

Table Instructions: Complete the following Table to demonstrate compliance with mandatory ventilation requirements in §120.1 and §120.2(e)3B for all nonresidential, high-rise residential and hotel/motel occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.

01	☑ Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02	☐ Check this box if the project includes new or altered high-rise residential dwelling units.
03	☐ Check the box if the project is using natural ventilation in any spaces to meet required ventilation rates per §120.1(c)2.

Nonresidential and Hotel/ Motel Ventilation Systems

04	05	06	07
System Name:	System Design OA CFM Air Flow[1]:	System Design Transfer Air CFM:	Air Filtration per §120.1(c) and §141.0(b)2[2]

08	09	10	11	12	13	14	15	16
	Mechanical Ventilation Required per §120.1(c)3[3]				Exh. Vent. per §120.1(c)4			
Space Name or Item Tag	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of showerheads/ toilets	# of people[5]	Required Min OA CFM	Required Minimum CFM	Provided per Design CFM	DCV or Occupant Sensor Controls per §120.1(d)3, §120.1(d)5 & §120.2(e)3[6]
								DCV
								Occ Sensor

17	Total System Required Min OA CFM		18	Ventilation for this System Complies?	

[1] FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system.
[2] Air filtration requirements apply to the following three system types per §120.1(c)14: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.
[3] Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.
[4] See Standards Tables 120.1-A and 120.1-B
[5] For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.
[6] §120.2(e)3 requires systems serving rooms that are required by §130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurpose rooms less than 1,000ft², classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by

§130.1(c).

K. TERMINAL BOX CONTROLS

Table Instructions: Complete the following Table to demonstrate compliance with prescriptive zone control requirements in §140.4(d).

01	02	03	04	05	06	07	08	09	10	11	12
		Design			Deadband Compliance			Reheated, Recooled, Mixed Air Compliance			
Zone/System/ VAV Box Name or Item Tag	Zonal Control Strategy per §140.4(d)	Peak Primary Airflow CFM	Primary Air in Deadband CFM	Reheated Recooled Mixed Airflow CFM	Outside Air CFM	20% (30% if no DDC) of Peak Primary Airflow CFM	Max Deadband Airflow CFM	50% of Peak Primary Airflow	1st Stage Modulates ≤ 95°F and Maintains DB Rate?	2nd Stage Modulates from DB Flow to Heating Max Flow?	Complies
VAV-1-01	NA: Healthcare Facility										Yes
VAV-1-02	NA: Healthcare Facility										Yes
VAV-1-03	NA: Healthcare Facility										Yes
VAV-1-04	NA: Healthcare Facility										Yes
VAV-1-05	NA: Healthcare Facility										Yes
VAV-1-06	NA: Healthcare Facility										Yes
VAV-1-07	NA: Peak SA ≤ 300 CFM										Yes
VAV-1-08	NA: Healthcare Facility										Yes
VAV-1-09	NA: Healthcare Facility										Yes
VAV-1-10	NA: Healthcare Facility										Yes
VAV-1-11	NA: Healthcare Facility										Yes
VAV-1-12	NA: Healthcare Facility										Yes
VAV-2-01	VAV w DDC @ zone	335	0	100	70	67	70	167.5	Yes	Yes	Yes
VAV-2-02	NA: Healthcare Facility										Yes
VAV-2-03	VAV w DDC @ zone	705	0	212	260	141	260	352.5	Yes	Yes	Yes
VAV-2-04	VAV w DDC @ zone	525	0	158	315	105	315	262.5	Yes	Yes	Yes
VAV-2-05	NA: Peak SA ≤ 300 CFM										Yes
VAV-2-06	NA: Pressurization control										Yes
VAV-2-07	NA: Pressurization control										Yes
VAV-2-08	NA: Healthcare Facility										Yes

Table Continued

01	02	03	04	05	06	07	08	09	10	11	12
		Design			Deadband Compliance			Reheated, Recooled, Mixed Air Compliance			
Zone/System/ VAV Box Name or Item Tag	Zonal Control Strategy per §140.4(d)	Peak Primary Airflow CFM	Primary Air in Deadband CFM	Reheated Recooled Mixed Airflow CFM	Outside Air CFM	20% (30% if no DDC) of Peak Primary Airflow CFM	Max Deadband Airflow CFM	50% of Peak Primary Airflow	1st Stage Modulates ≤ 95°F and Maintains DB Rate?	2nd Stage Modulates from DB Flow to Heating Max Flow?	Complies
VAV-2-09	NA: Pressurization control										Yes
VAV-2-10	NA: Pressurization control										Yes
VAV-2-11	NA: Healthcare Facility										Yes
VAV-2-12	NA: Pressurization control										Yes

L. DISTRIBUTION (DUCTWORK AND PIPING)

Table Instructions: Complete the following tables to show compliance with mandatory pipe insulation requirements found in §120.3 and prescriptive requirements found in §140.4(l) for duct leakage testing.

Mandatory Pipe Insulation

01		
	☑	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service. Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space shall have a Class I or Class II vapor retarder. All penetrations and joints of which shall be sealed.

02	03	04	05	06	07	08	09	10
System Type	Nominal Pipe Diameter (in)	Fluid Temp. Range (°F)	Conductivity Range (Btu-in per hr per ft² per °F)	Insulation Mean Rating Temp. (°F)	Min. Insulation Thickness Required per Table 120.3-A (in)	Required per §120.3(c)2 (in)	Insulation Thickness per Design (in)	Exception to §120.3 (if applicable)
Space heating	1.5 to <4	141-200	0.25 - 0.29	125	2		2	
Space heating	< 1	141-200	0.25 - 0.29	125	1.5		1.5	
Space heating	1 to <1.5	141-200	0.25 - 0.29	125	1.5		1.5	

Duct Leakage Sealing

Table Continued

Table Continued

The answers to the questions below apply to the following duct system(s):		RTU-1	Duct leakage testing triggered for these systems?	No
11	Yes	The scope of the project includes only duct systems serving healthcare facilities.		
12		Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.		
13		The space conditioning system serves less than 5,000 ft² of conditioned floor area.		
14		The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:		
		☐ Outdoors		
		☐ In a space directly under a roof that has a U-factor greater than the U-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces		
		☐ In an unconditioned crawlspace		
		☐ In other unconditioned spaces		
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.		
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.		
17	Yes	Duct system shall be sealed in accordance with the California Mechanical Code.		

The answers to the questions below apply to the following duct system(s):		RTU-2	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities.		
12	No	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.		
13	No	The space conditioning system serves less than 5,000 ft² of conditioned floor area.		
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:		
		☐ Outdoors		
		☐ In a space directly under a roof that has a U-factor greater than the U-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces		
		☐ In an unconditioned crawlspace		
		☐ In other unconditioned spaces		
15	No	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.		
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.		
17		Duct system shall be sealed in accordance with the California Mechanical Code.		

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Tri-City Medical Center Psychiatric Health Facility
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San Diego, CA 92101
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KPFF
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GroundLevel Landscape Architecture, Inc.
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619.325.1990

Rev.	Description	Date
	ISSUE FOR PLAN REVIEW BACKCHECK	21 JAN 2022
	ISSUE FOR PLAN REVIEW	27 OCT 2021
	ISSUE FOR PLANNING	15 DEC 2020
	ISSUE FOR GRADING PERMIT	03 DEC 2020
	AGENCY APPROVAL	

ARCHITECT SEAL

CONSULTANT SEAL
PE 37800 — REGISTERED PROFESSIONAL ENGINEER — MECHANICAL — STATE OF CALIFORNIA — exp 3/31/23

Drawing Title:

TITLE 24

Issue Date: 10/23/20
Project No.: 006240.00 Checked by: Checker

M0002

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STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E (Created 11/20) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: TRI-CITY MEDICAL CENTER PSYCHIATRIC HEALTH FACILITY	Report Page:	Page 10 of 14
Project Address: 4002 VISTA WAY, OCEANSIDE, CA 92056	Date Prepared:	2020-11-18

M. COOLING TOWERS

This Section Does Not Apply

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

YES	NO	Form/Title	Field Inspector Pass	Fail
◉	○	NRCI-MCH-01-E - Must be submitted for all buildings.	☐	☐

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

YES	NO	Form/Title	Field Inspector Pass	Fail

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E (Created 11/20) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: TRI-CITY MEDICAL CENTER PSYCHIATRIC HEALTH FACILITY	Report Page:	Page 11 of 14
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◉	○	NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. *Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.*	☐	☐
○	◉	NRCA-MCH-03-A Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes". If Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".	☐	☐
○	◉	NRCA-MCH-04-A Air Distribution Duct Leakage	☐	☐
○	◉	NRCA-MCH-05-A Air Economizer Controls	☐	☐
○	◉	NRCA-MCH-06-A Demand Control Ventilation Systems Acceptance must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints.	☐	☐
○	◉	NRCA-MCH-07-A Supply Fan Variable Flow Controls	☐	☐
◉	○	NRCA-MCH-08-A Valve Leakage Test	☐	☐
○	◉	NRCA-MCH-09-A Supply Water Temperature Reset Controls	☐	☐
◉	○	NRCA-MCH-10-A Hydronic System Variable Flow Controls	☐	☐
◉	○	NRCA-MCH-11-A Automatic Demand Shed Controls	☐	☐
○	◉	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units	☐	☐
○	◉	NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance	☐	☐
○	◉	NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance *NOTE: This form does not automatically move to "Yes". If Distributed Energy Storage DX AC Systems are included in the scope, permit applicant should move this form to "Yes".*	☐	☐
○	◉	NRCA-MCH-15-A Thermal Energy Storage (TES) System Acceptance *NOTE: This form does not automatically move to "Yes". If Chilled Water Storage, Ice-on-Coil Internal Melt, Ice-on-Coil External Melt, Ice Harvester, Brine, Ice-Slurry, Eutectic Salt, Clathrate Hydrate Slurry (CHS), Cryogenic or Encapulated (Ice Ball) Systems are included in the scope, permit applicant should move this form to "Yes".*	☐	☐
○	◉	NRCA-MCH-16-A Supply Air Temperature Reset Controls	☐	☐
○	◉	NRCA-MCH-17-A Condenser Water Temperature Reset Controls	☐	☐
◉	○	NRCA-MCH-18 Energy Management Control Systems	☐	☐
○	◉	NRCA-MCH-19 Occupancy Sensor Controls	☐	☐
◉	○	NRCA-MCH-20 Multi-Family Ventilation	☐	☐
○	◉	NRCA-MCH-21 Multi-Family Envelope Leakage	☐	☐

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E (Created 11/20) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: TRI-CITY MEDICAL CENTER PSYCHIATRIC HEALTH FACILITY	Report Page:	Page 12 of 14
Project Address: 4002 VISTA WAY, OCEANSIDE, CA 92056	Date Prepared:	2020-11-18

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be completed by a HERS Rater and provided to the building inspector during construction. The final documents must be created by a HERS Providers registry, but drafts can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCV/

YES	NO	Form/Title	Field Inspector Pass	Fail
○	◉	NRCV-MCH-04-H Duct Leakage Test *NOTE: Must be completed by a HERS Rater*	☐	☐
○	◉	NRCV-MCH-24 Enclosure Air Leakage Worksheet *NOTE: Must be completed by a HERS Rater*	☐	☐
○	◉	NRCV-MCH-27 High-rise Residential *NOTE: Must be completed by a HERS Rater*	☐	☐
○	◉	NRCV-MCH-32 Local Mechanical Exhaust *NOTE: Must be completed by a HERS Rater*	☐	☐

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E (Created 11/20) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: TRI-CITY MEDICAL CENTER PSYCHIATRIC HEALTH FACILITY	Report Page:	Page 13 of 14
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Q. MANDATORY MEASURES DOCUMENTATION LOCATION

Table Instructions: Indicate where mandatory measures are documented in the plan set or construction documentation. For any mandatory measures that do not apply, mark the plan sheet or construction document location as "N/A", any active cells that are left blank will result in non-compliance in Table C.

01		02 Plan sheet or construction document location
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block:	No	
03 Mandatory Measure		04 Plan sheet or construction document location
Heating Equipment Efficiency per §110.1		N/A
Cooling Equipment Efficiency per §110.1		SHEET M0501
Furnace Standby Loss Control per §110.2(d)		N/A
Duct Insulation per §120.4		SPECS 230700 - HVAC Insulation
Heating Hot Water Equipment Efficiency per §110.1		SHEET M0501
Cooling Chilled and Condenser Water Equipment Efficiency per §110.1		N/A
Open and Closed Circuit Cooling Towers conductivity of flow-based controls per §110.2(e)1		N/A
Open and Closed Circuit Cooling Towers Flow Meter with analog output per §110.2(e)3		N/A
Open and Closed Circuit Cooling Towers Overflow Alarm per §110.2(e)4		N/A
Open and Closed Circuit Cooling Towers Efficient Drift Eliminators per §110.2(e)5		N/A
Pipe Insulation per §120.3(b)		SPECS 230700 - HVAC Insulation
Combustion air shutoff, combustion air fan controls and stack design and controls for boilers per §120.9		N/A
Heat Pump with Supplementary Electric Resistance Heater Controls per §110.2(b)		N/A
The air duct and plenum system is designed per §120.4(a)-(f)		SPECS 233113 - Metal Ducts
Kitchen range hoods shall be rated for sound in accordance with Section 7.2 of ASHRAE 62.2		N/A

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E (Created 11/20) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: TRI-CITY MEDICAL CENTER PSYCHIATRIC HEALTH FACILITY	Report Page:	Page 14 of 14
Project Address: 4002 VISTA WAY, OCEANSIDE, CA 92056	Date Prepared:	2020-11-18

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	KEITH HAMMELMAN	Documentation Author Signature:	
Company:	CannonDesign	Signature Date:	11/18/2020
Address:	225 N. Michigan Ave., #1100	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	Chicago, IL 60601	Phone:	312-960-8318

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.

2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)

3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.

4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	KEITH HAMMELMAN	Responsible Designer Signature:	
Company :	CannonDesign	Date Signed:	11/18/2020
Address:	225 N. Michigan Ave., #1100	License:	37960
City/State/Zip:	Chicago, IL 60601	Phone:	312-960-8318

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Rev.	Description	Date
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	ISSUE FOR GRADING PERMIT	03 DEC 2020
	AGENCY APPROVAL	

ARCHITECT SEAL

CONSULTANT SEAL

REGISTERED PROFESSIONAL ENGINEER KEITH RICHARD HAMMELMAN PE 37600 Exp 3/31/22 MECHANICAL STATE OF CALIFORNIA

Drawing Title:

TITLE 24

Issue Date: 10/23/20

Project No.: 006240.00 Checked by: Checker

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Project Name:	TRI CITY PSYCH FACILITY	NRCC-PRF-01-E	Page 1 of 21
Project Address:	4002 Vista Way Oceanside 92056	Calculation Date/Time:	12:42, Thu, Oct 29, 2020
Input File Name:	Tri City Psych Bldg Final.cibd19x		

A. GENERAL INFORMATION

1.	Project Location (city)	Oceanside	8.	Standards Version	Compliance2019
2.	CA Zip Code	92056	9.	Compliance Software (version)	EnergyPro 8.0
3.	Climate Zone	7	10.	Weather File	CAMP-PENDLETON_722926_CZ2010.epw
4.	Total Conditioned Floor Area in Scope	10,354 ft²	11.	Building Orientation (deg)	(N) 0 deg
5.	Total Unconditioned Floor Area	0 ft²	12.	Permitted Scope of Work	NewComplete
6.	Total # of Stories (Habitable Above Grade)	1	13	Building Type(s)	Nonresidential
7.	Total # of dwelling units	0	14	Gas Type	NaturalGas

B. PROJECT SUMMARY

Table Instructions: Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within permit application.

Building Components Complying via Performance					Building Components Complying Prescriptively	
Envelope	☒ Performance	Covered Process: Commercial Kitchens	☐ Performance		*The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).*	
	☐ Not Included		☒ Not Included			
Mechanical	☒ Performance	Covered Process: Computer Rooms	☐ Performance		Indoor Lighting (Unconditioned)§140.6	*NRCC-LTI -E is required*
	☐ Not Included		☒ Not Included		Outdoor Lighting §140.7	*NRCC-LTO-E is required*
Domestic Hot Water	☐ Performance	Covered Process: Laboratory Exhaust	☐ Performance		Sign Lighting §140.8	*NRCC -LTS-E is required*
	☒ Not Included		☒ Not Included		Mandatory Measures	
Lighting (Indoor Conditioned)	☒ Performance				*Electrical power systems, commissioning and solar ready requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)*	
	☐ Not Included				Electrical Power Distribution S110.11	*NRCC-ELC-E is required*
Solar Thermal Water Heating	☐ Performance				Commissioning §120.8	*NRCC-CXR-E is required*
	☒ Not Included				Solar Ready §110.10	*NRCC-SRA-E is required*

Project Name:	TRI CITY PSYCH FACILITY	NRCC-PRF-01-E	Page 2 of 21
Project Address:	4002 Vista Way Oceanside 92056	Calculation Date/Time:	12:42, Thu, Oct 29, 2020
Input File Name:	Tri City Psych Bldg Final.cibd19x		

C1. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft²-yr)

COMPLIES

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	5.32	12.37	-7.05
Space Cooling	65.83	52.78	13.05
Indoor Fans	112.29	52.36	59.93
Heat Rejection	--	--	--
Pumps & Misc.	--	1.14	-1.14
Domestic Hot Water	21.19	21.18	0.01
Indoor Lighting	69.81	42.25	27.56
ENERGY STANDARDS COMPLIANCE TOTAL	**274.44**	**182.08**	**92.36 (33.7%)**

[1] *Notes: The number in parenthesis following the Compliance Margin in column 4. represents the Percent Better than Standard.*

C2. RESULTS FOR 'ABOVE CODE' QUALIFICATIONS[1]

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2

Miscellaneous Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[2]
Receptacle	102.32	102.32	0.0
Process	7.76	7.76	0.0
Other Ltg	--	--	--
Process Motors	--	--	--
COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS	**384.52**	**292.16**	**92.4 (24.0%)**

[1] *Notes: This table is used to document compliance with programs OTHER THAN Title 24 Part 6, if applicable.*

Project Name:	TRI CITY PSYCH FACILITY	NRCC-PRF-01-E	Page 3 of 21
Project Address:	4002 Vista Way Oceanside 92056	Calculation Date/Time:	12:42, Thu, Oct 29, 2020
Input File Name:	Tri City Psych Bldg Final.cibd19x		

D. EXCEPTIONAL CONDITIONS

The building does not include service water heating. Verify that service water heating is not required and is not included in the design.

This project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylit Zones is required.

The user model includes space(s) that are designed to be served by mechanical cooling systems, but the cooling systems were not included in the simulation model. A cooling system has been modeled for both the proposed and standard cases.

The user model includes space(s) without sufficient cooling equipment. Cooling equipment has been added to the model to meet cooling loads.

E. HERS VERIFICATION

This Section Does Not Apply

F. ADDITIONAL REMARKS

This Section Does Not Apply

G. ENVELOPE GENERAL INFORMATION

Opaque Surfaces & Orientation	Total Gross Surface Area (ft²)	Total Fenestration Area (ft²)	Window to Wall Ratio (%)
North-Facing[1]	723 ft²	253 ft²	35.0%
East-Facing[2]	986 ft²	213 ft²	21.6%
South-Facing[3]	1,963 ft²	348 ft²	17.7%
West-Facing[4]	501 ft²	75 ft²	14.9%
Total	**4,173 ft²**	**889 ft²**	**21.3%**
Roof	10,213 ft²	0 ft²	00.0%

Notes:
[1] *North-Facing is oriented to within 45 degrees of true north, including 45°00'00" east of north (NE), but excluding 45°00'00" west of north (NW).*
[2] *East-Facing is oriented to within 45 degrees of true east, including 45°00'00" south of east (SE), but excluding 45°00'00" north of east (NE).*
[3] *South-Facing is oriented to within 45 degrees of true south, including 45°00'00" west of south (SW), but excluding 45°00'00" east of south (SE).*
[4] *West-Facing is oriented to within 45 degrees of true west, including 45°00'00" north of due west (NW), but excluding 45°00'00" south of west (SW).*

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Project Name:	TRI CITY PSYCH FACILITY	NRCC-PRF-01-E	Page 4 of 21
Project Address:	4002 Vista Way Oceanside 92056	Calculation Date/Time:	12:42, Thu, Oct 29, 2020
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H. FENESTRATION ASSEMBLY SUMMARY §110.6

1. Fenestration Assembly Name / Tag or I.D.	2. Fenestration Type / Product Type / Frame Type	3. Certification Method[1]	4. Assembly Method	5. Area ft²	6. Overall U-factor	7. Overall SHGC	8. Overall VT	9. Status[2]
Tri City Viracon VE-1-2M	VerticalFenestration FixedWindow N/A	NFRC Rated	Manufactured	889	0.33	0.27	0.70	N

[1] *Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.*
[2] *Status: N - New, A – Altered, E – Existing*

I. ENVELOPE DETAILS §120.7 & §140.3

I1. OPAQUE SURFACE ASSEMBLY SUMMARY

1 Surface Name	2 Surface Type	3 Description of Assembly Layers	4 Area (ft²)	5 Framing Type	6 Cavity R-Value	7 Continuous R-Value	8 U-Factor / F-Factor / C-Factor	9 Status[1]
R-30 Roof9	Roof	Extruded Polystyrene - XPS - 4 1/2 in. R22.50 Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Metal screw down roof, R-10 Gypsum Board - 1/2 in.	10213	NA	10	23	U-Factor: 0.033	N
Metal Frame R1811	ExteriorWall	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Cellular polyisocyanurate (unfaced) - 2 in. R12 Metal framed wall, 16in. OC, 7.25in., R-19 Gypsum Board - 1/2 in.	4173	Metal	19	12	U-Factor: 0.056	N
Interior Partition15	InteriorWall	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Metal framed wall, 16in. OC, 3.5in., R-0 Gypsum Board - 1/2 in.	8831	Metal	0	NA	U-Factor: 0.371	N
Slab On Grade17	UndergroundFloor	Slab Type = UnheatedSlabOnGrade Insulation Orientation = None Insulation R-Value = R0	10354	NA	0	NA	F-Factor: 0.730	N

[1] *Status: N - New, A – Altered, E – Existing*

Project Name:	TRI CITY PSYCH FACILITY	NRCC-PRF-01-E	Page 5 of 21
Project Address:	4002 Vista Way Oceanside 92056	Calculation Date/Time:	12:42, Thu, Oct 29, 2020
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I2. OVERHANG DETAILS

This Section Does Not Apply

I3. OPAQUE DOOR SUMMARY

1 Assembly Name	2 Overall U-factor	3 Status[1]
Insulated Door31	0.200	N

J. CRRC ROOFING PRODUCT SUMMARY S140.3

This Section Does Not Apply

K. HVAC SYSTEM SUMMARY §110.1 & §110.2

K1. Dry System Equipment (furnaces, air handling units, heat pumps, VRF, etc.)

Dry System Equipment [1] (Fan & Economizer info included below in Table N)

1 Equipment Name	2 Equipment Type	3 Qty	4 Heating	5 Heating	6 Heating	7 Heating	8 Cooling	9 Cooling	10 Status[2]
			Total Heating Output (kBtu/h)	Supp Heat Source (Y/N)	Supp Heat Output (kBtuh)	Efficiency	Total Cooling Output (kBtu/h)	Efficiency	
RTU-1	PVAV (Packaged3Phase)	1	6050	No	0	NA	230	EER-11.0	N
VAV-1-013	Exhaust (NA)	1	0	No	0	NA	0	NA	N
VAV-1-0222	Exhaust (NA)	1	0	No	0	NA	0	NA	N
VAV-1-0338	Exhaust (NA)	1	0	No	0	NA	0	NA	N
VAV-1-0447	Exhaust (NA)	1	0	No	0	NA	0	NA	N
VAV-1-06 A63	Exhaust (NA)	1	0	No	0	NA	0	NA	N
VAV-1-06 B76	Exhaust (NA)	1	0	No	0	NA	0	NA	N
VAV-1-09108	Exhaust (NA)	1	0	No	0	NA	0	NA	N
VAV-1-10125	Exhaust (NA)	1	0	No	0	NA	0	NA	N
VAV-1-11140	Exhaust (NA)	1	0	No	0	NA	0	NA	N

Project Name:	TRI CITY PSYCH FACILITY	NRCC-PRF-01-E	Page 6 of 21
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K1. Dry System Equipment (furnaces, air handling units, heat pumps, VRF, etc.)

Dry System Equipment [1] (Fan & Economizer info included below in Table N)

1 Equipment Name	2 Equipment Type	3 Qty	4 Heating	5 Heating	6 Heating	7 Heating	8 Cooling	9 Cooling	10 Status[2]
			Total Heating Output (kBtu/h)	Supp Heat Source (Y/N)	Supp Heat Output (kBtuh)	Efficiency	Total Cooling Output (kBtu/h)	Efficiency	
VAV-1-12150	Exhaust (NA)	1	0	No	0	NA	0	NA	N
RTU-2	PVAV (Packaged3Phase)	1	5650	No	0	NA	230	EER-11.0	N
VAV-2-02167	Exhaust (NA)	1	0	No	0	NA	0	NA	N
VAV-2-05213	Exhaust (NA)	1	0	No	0	NA	0	NA	N
VAV-2-07234	Exhaust (NA)	1	0	No	0	NA	0	NA	N
VAV-2-08240	Exhaust (NA)	1	0	No	0	NA	0	NA	N
VAV-2-10263	Exhaust (NA)	1	0	No	0	NA	0	NA	N
VAV-2-11278	Exhaust (NA)	1	0	No	0	NA	0	NA	N
AC 01	SZAC (CRAC)	1	0	No	0	NA	35	SEER-16.00 / EER-12.20	N
AC 02	SZAC (CRAC)	1	0	No	0	NA	35	SEER-16.00 / EER-12.20	N
AC 03	SZAC (CRAC)	1	0	No	0	NA	35	SEER-16.00 / EER-12.20	N

[1] *Status: N - New, A – Altered, E – Existing*

K2. ECONOMIZER & FAN SYSTEMS SUMMARY §140.4[1]

1 Name or Item Tag	2 System Type packaged, DOAS, etc.	3 Design OA	4 Supply Fan	5 Supply Fan	6 Supply Fan	7 Supply Fan	8 Return Fan	9 Return Fan	10 Return Fan	11 Return Fan	12 Economizer Type (if present)	13 Status[2]
		CFM	CFM	BHP	Watts	Control	CFM	BHP	Watts	Control		
RTU-1	PVAV	737	8000	7.500	6098.1	VariableSpeedDrive	NA	NA	NA	NA	FixedDryBulb	N
RTU-2	PVAV	1093	8000	7.500	6098.1	VariableSpeedDrive	NA	NA	NA	NA	FixedDryBulb	N
AC 01	SZAC	0	920	0.300	261.6	ConstantVolume	NA	NA	NA	NA	NoEconomizer	N

Project Name:	TRI CITY PSYCH FACILITY	NRCC-PRF-01-E	Page 7 of 21
Project Address:	4002 Vista Way Oceanside 92056	Calculation Date/Time:	12:42, Thu, Oct 29, 2020
Input File Name:	Tri City Psych Bldg Final.cibd19x		

K2. ECONOMIZER & FAN SYSTEMS SUMMARY §140.4[1]

1 Name or Item Tag	2 System Type packaged, DOAS, etc.	3 Design OA	4 Supply Fan	5 Supply Fan	6 Supply Fan	7 Supply Fan	8 Return Fan	9 Return Fan	10 Return Fan	11 Return Fan	12 Economizer Type (if present)	13 Status[2]
		CFM	CFM	BHP	Watts	Control	CFM	BHP	Watts	Control		
AC 02	SZAC	0	920	0.300	261.6	ConstantVolume	NA	NA	NA	NA	NoEconomizer	N
AC 03	SZAC	0	920	0.300	261.6	ConstantVolume	NA	NA	NA	NA	NoEconomizer	N

[1] *Status: N - New, A – Altered, E – Existing*

K3. EXHAUST FAN SUMMARY

1 System ID	2 Zone Name	3 Qty	4 CFM	5 Motor BHP	6 Motor Watts	7 Total Static Pressure (in H20)
VAV-1-013	1-VAV-1-01	1	80	0.083	72.4	4.28
VAV-1-0222	2-VAV-1-02	1	80	0.083	72.4	4.28
VAV-1-0338	3-VAV-1-03	1	80	0.083	72.4	4.28
VAV-1-0447	4-VAV-1-04	1	80	0.083	72.4	4.28
VAV-1-06 A63	6-VAV-1-06 A	1	600	0.750	654.0	5.16
VAV-1-06 B76	7-VAV-1-06 B	1	600	0.330	287.8	2.27
VAV-1-09108	10-VAV-1-09	1	235	0.083	72.4	1.46
VAV-1-10125	11-VAV-1-10	1	150	0.083	72.4	2.28
VAV-1-11140	12-VAV-1-11	1	75	0.083	72.4	4.56
VAV-1-12150	13-VAV-1-12	1	75	0.083	72.4	4.56
VAV-2-02167	15-VAV-2-02	1	300	0.125	109.0	1.72
VAV-2-05213	18-VAV-2-05	1	125	0.125	109.0	4.12
VAV-2-07234	20-VAV-2-07	1	600	0.330	287.8	2.27
VAV-2-08240	21-VAV-2-08	1	150	0.125	109.0	3.44
VAV-2-10263	23-VAV-2-10	1	125	0.125	109.0	4.12
VAV-2-11278	24-VAV-2-11	1	300	0.125	109.0	1.72

Project Name:	TRI CITY PSYCH FACILITY	NRCC-PRF-01-E	Page 8 of 21
Project Address:	4002 Vista Way Oceanside 92056	Calculation Date/Time:	12:42, Thu, Oct 29, 2020
Input File Name:	Tri City Psych Bldg Final.cibd19x		

K4. Wet System Equipment (boilers, chillers, cooling towers, etc.)

1 Name or Item Tag	2 Equipment Type	3 Qty	4 Vol (gal)	5 Rated Capacity (kBtu/h)	6 Efficiency	7 Standby Loss	8 Pumps	9 Pumps	10 Pumps	11 Pumps	12 Status[1]
							Qty	GPM	HP	VSD (Y/N)	
AERCO BOILER2-0	HotWater	NA	NA	576	Thrml. Eff: 0.80	NA	1	40.0	3.000	Yes	N
AERCO BOILER2-1	HotWater	NA	NA	576	Thrml. Eff: 0.80	NA	1	40.0	3.000	Yes	N

[1] *Status: N - New, A – Altered, E – Existing*

K5. SYSTEM FEATURES §120.2

1 System Name	2 Optimum Start	3 Window Interlocks per §140.4(n)	4 Evaporative Cooling	5 Heat Recovery	6 Other Controls
RTU-1	Optimum Start	NA	No Evaporative Cooler	No Heat Recovery	No DCV Controls, DDC Controls and Dual Maximum Reheat Controls Fixed Drybulb Economizer Supply Air Temp. Reset on Outside Air Temp.
RTU-2	Optimum Start	NA	No Evaporative Cooler	No Heat Recovery	4 Zones With CO2Sensor Vent. Control, DDC Controls and Dual Maximum Reheat Controls Fixed Drybulb Economizer Supply Air Temp. Reset on Outside Air Temp.
AC 01	No Optimum Start	NA	No Evaporative Cooler	No Heat Recovery	No DCV Controls, No DDC No Economizer No Supply Air Temp. Control
AC 02	No Optimum Start	NA	No Evaporative Cooler	No Heat Recovery	No DCV Controls, No DDC No Economizer No Supply Air Temp. Control
AC 03	No Optimum Start	NA	No Evaporative Cooler	No Heat Recovery	No DCV Controls, No DDC No Economizer No Supply Air Temp. Control
Tri City Bldg1 - HotWater	NA	NA	NA	NA	Outside Air Reset Temperature Control, DDC

Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.

Project Name:	TRI CITY PSYCH FACILITY	NRCC-PRF-01-E	Page 9 of 21
Project Address:	4002 Vista Way Oceanside 92056	Calculation Date/Time:	12:42, Thu, Oct 29, 2020
Input File Name:	Tri City Psych Bldg Final.cibd19x		

K6. MECHANICAL VENTILATION AND REHEAT §120.1

1 Zone Name	2 Mechanical Ventilation	3 Mechanical Ventilation	4 Mechanical Ventilation	5 Mechanical Ventilation	6 Mechanical Ventilation	7 Mechanical Ventilation	8 Mechanical Ventilation	9 DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# hotel rooms	# of people	# of bedrooms	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	
1-VAV-1-01	Misc - All others	0	2.70	0	41	80	236	NA
2-VAV-1-02	Misc - All others	0	6.29	0	94	80	489	NA
3-VAV-1-03	Misc - All others	0	1.70	0	27	80	181	NA
4-VAV-1-04	Misc - All others	0	2.70	0	41	80	237	NA
5-VAV-1-05	Misc - All others	0	1.02	0	31	0	205	NA
6-VAV-1-06 A	Misc - All others	0	3.57	0	54	600	293	NA
7-VAV-1-06 B	Misc - All others	0	3.42	0	103	600	685	NA
8-VAV-1-07	Misc - All others	0	4.00	0	60	0	362	NA
9-VAV-1-08	Misc - All others	0	6.01	0	90	0	393	NA
10-VAV-1-09	Misc - All others	0	4.23	0	75	235	498	NA
11-VAV-1-10	Misc - All others	0	3.70	0	56	150	363	NA
12-VAV-1-11	Misc - All others	0	2.70	0	41	75	237	NA
13-VAV-1-12	Misc - All others	0	1.65	0	27	75	180	NA
14-VAV-2-01	General - Conference/meeting	0	7.00	0	104	0	209	Both
15-VAV-2-02	Misc - All others	0	10.52	0	158	300	868	NA
16-VAV-2-03	Misc - All others	0	3.00	0	52	0	348	NA
17-VAV-2-04	Food Service - Cafeteria/fast-food dining	0	14.00	0	210	0	427	DCV
18-VAV-2-05	Office - Office space	0	1.83	0	27	125	171	Occupant Sensor
19-VAV-2-06	General - Corridors	0	2.00	0	30	0	188	Both
20-VAV-2-07	Food Service - Kitchen (cooking)	0	0.59	0	35	600	235	NA
21-VAV-2-08	General - Corridors	0	3.58	0	107	150	715	Both
22-VAV-2-09	General - Corridors	0	2.40	0	72	0	479	Occupant Sensor
23-VAV-2-10	General - Corridors	0	2.60	0	78	125	520	Occupant Sensor

Tri-City Medical Center

Tri-City Medical Center
Psychiatric Health Facility

4002 Vista Way
Oceanside, CA 92056

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ISSUE FOR PLAN REVIEW BACKCHECK	21 JAN 2022
ISSUE FOR PLAN REVIEW	27 OCT 2021
ISSUE FOR PLANNING	15 DEC 2020
ISSUE FOR GRADING PERMIT	03 DEC 2020

Rev.	Description	Date
	AGENCY APPROVAL	

ARCHITECT SEAL

CONSULTANT SEAL

REGISTERED PROFESSIONAL ENGINEER PE 37650 3/31/22 MECHANICAL STATE OF CALIFORNIA

Drawing Title:

TITLE 24

Issue Date: 11/17/20

Project No.: 006240.00 Checked by: Checker

M0004

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K6. MECHANICAL VENTILATION AND REHEAT §120.1

1	2	3	4	5	6	7	8	9
Zone Name	Mechanical Ventilation							DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# hotel rooms	# of people	# of bedrooms	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	
24-VAV-2-11	Office - Office space	0	9.09	0	136	300	657	Occupant Sensor
25-VAV-2-12	General - Corridors	0	2.75	0	83	0	551	Occupant Sensor
26-VAV-3-01	General - Unoccupied	0	0.31	0	0	0	209	NA
27-VAV-3-02	General - Unoccupied	0	0.31	0	0	0	209	NA
28-VAV-3-03	General - Unoccupied	0	0.31	0	0	0	209	NA

K7. DISTRIBUTION SUMMARY §120.4/140.4(l)

1	2	3	4	5
Equipment Name	*Dry System Distribution*			Status[1]
	Duct Leakage Verification Y/N	Ducts		
		Insulation R-Value	Location	
RTU-1	No	8	Unconditioned	N
RTU-2	No	8	Unconditioned	N
AC 01	No	8	Unconditioned	N
AC 02	No	8	Unconditioned	N
AC 03	No	8	Unconditioned	N

[1] *Status: N - New, E – Existing*

Multifamily or Hotel/Motel Occupancy? (if "Yes", see DOMESTIC/SERVICE HOT WATER SYSTEM SUMMARY)	No
Does the Project include Zonal Systems?	Yes

K8. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY § 140.4

1	2	3	4	5	6	7	8	9	10	11	12
System ID	Zone Name	System Type	Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
			Heating	Cooling	Design	Min.	Min. Ratio	BHP	Watts	Cycles	ECM Motor
13-VAV-1-12-Trm	13-VAV-1-12	VAVReheatBox	40.00	NA	140	28	0.20	NA	NA	NA	☐
12-VAV-1-11-Trm	12-VAV-1-11	VAVReheatBox	40.00	NA	643	193	0.30	NA	NA	NA	☐
11-VAV-1-10-Trm	11-VAV-1-10	VAVReheatBox	40.00	NA	538	108	0.20	NA	NA	NA	☐
10-VAV-1-09-Trm	10-VAV-1-09	VAVReheatBox	40.00	NA	486	97	0.20	NA	NA	NA	☐
9-VAV-1-08-Trm	9-VAV-1-08	VAVReheatBox	40.00	NA	575	115	0.20	NA	NA	NA	☐
8-VAV-1-07-Trm	8-VAV-1-07	VAVReheatBox	40.00	NA	775	155	0.20	NA	NA	NA	☐
7-VAV-1-06 B-Trm	7-VAV-1-06 B	VAVReheatBox	40.00	NA	594	119	0.20	NA	NA	NA	☐
6-VAV-1-06 A-Trm	6-VAV-1-06 A	VAVReheatBox	40.00	NA	320	64	0.20	NA	NA	NA	☐
5-VAV-1-05-Trm	5-VAV-1-05	VAVReheatBox	40.00	NA	301	60	0.20	NA	NA	NA	☐
4-VAV-1-04-Trm	4-VAV-1-04	VAVReheatBox	40.00	NA	323	65	0.20	NA	NA	NA	☐
3-VAV-1-03-Trm	3-VAV-1-03	VAVReheatBox	40.00	NA	155	31	0.20	NA	NA	NA	☐
2-VAV-1-02-Trm	2-VAV-1-02	VAVReheatBox	40.00	NA	515	103	0.20	NA	NA	NA	☐
1-VAV-1-01-Trm	1-VAV-1-01	VAVReheatBox	40.00	NA	351	70	0.20	NA	NA	NA	☐
25-VAV-2-12-Trm	25-VAV-2-12	VAVReheatBox	40.00	NA	430	86	0.20	NA	NA	NA	☐
24-VAV-2-11-Trm	24-VAV-2-11	VAVReheatBox	40.00	NA	1110	333	0.30	NA	NA	NA	☐
23-VAV-2-10-Trm	23-VAV-2-10	VAVReheatBox	40.00	NA	390	78	0.20	NA	NA	NA	☐
22-VAV-2-09-Trm	22-VAV-2-09	VAVReheatBox	40.00	NA	400	80	0.20	NA	NA	NA	☐
21-VAV-2-08-Trm	21-VAV-2-08	VAVReheatBox	40.00	NA	540	108	0.20	NA	NA	NA	☐
20-VAV-2-07-Trm	20-VAV-2-07	VAVReheatBox	40.00	NA	233	70	0.30	NA	NA	NA	☐
19-VAV-2-06-Trm	19-VAV-2-06	VAVReheatBox	40.00	NA	150	30	0.20	NA	NA	NA	☐
18-VAV-2-05-Trm	18-VAV-2-05	VAVReheatBox	40.00	NA	211	42	0.20	NA	NA	NA	☐
17-VAV-2-04-Trm	17-VAV-2-04	VAVReheatBox	40.00	NA	799	240	0.30	NA	NA	NA	☐
16-VAV-2-03-Trm	16-VAV-2-03	VAVReheatBox	40.00	NA	720	216	0.30	NA	NA	NA	☐
15-VAV-2-02-Trm	15-VAV-2-02	VAVReheatBox	40.00	NA	800	160	0.20	NA	NA	NA	☐

K8. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY § 140.4

1	2	3	4	5	6	7	8	9	10	11	12
System ID	Zone Name	System Type	Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
			Heating	Cooling	Design	Min.	Min. Ratio	BHP	Watts	Cycles	ECM Motor
14-VAV-2-01-Trm	14-VAV-2-01	VAVReheatBox	40.00	NA	155	31	0.20	NA	NA	NA	☐
26-VAV-3-01-Trm	26-VAV-3-01	Uncontrolled	NA	NA	155	NA	0.00	NA	NA	NA	☐
27-VAV-3-02-Trm	27-VAV-3-02	Uncontrolled	NA	NA	155	NA	0.00	NA	NA	NA	☐
28-VAV-3-03-Trm	28-VAV-3-03	Uncontrolled	NA	NA	155	NA	0.00	NA	NA	NA	☐

K9. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

L. DOMESTIC/SERVICE HOT WATER SYSTEM SUMMARY

L1. DHW EQUIPMENT SUMMARY

This Section Does Not Apply

L2. MULTI-FAMILY CENTRAL DHW SYSTEM DETAILS

This Section Does Not Apply

L3. SOLAR HOT WATER HEATING SUMMARY

This Section Does Not Apply

M. COVERED PROCESS SUMMARY §140.9

This Section Does Not Apply

N. INDOOR LIGHTING SUMMARY §140.6

N1. INDOOR CONDITIONED LIGHTING GENERAL INFO § 140.6[1]

						Confirmed	
1	2	3	4	5		Pass	Fail
Occupancy Type [1]	Conditioned Floor Area [2] (ft²)	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Additional (Custom) Allowance			
				Area Category Footnotes (Watts)	Tailored Method (Watts)		
Healthcare Facility and Hospitals (Exam/Treatment Room)	5,575	3,271	0	0	0	☐	☐
Convention, Conference, Multipurpose and Meeting Area	209	146	0	0	0	☐	☐
Dining Area (Cafetaria/Fast Food)	427	149	0	0	0	☐	☐
Office Area (<250 square feet)	828	270	0	0	0	☐	☐
Corridor Area	2,453	1,235	0	0	0	☐	☐
Kitchen/Food Preparation Area	235	110	0	0	0	☐	☐
Electrical, Mechanical, Telephone Rooms	627	438	0	0	0	☐	☐
Building Totals:	**10,354**	**5,619**	**0**	**0**	**0**		

[1] *See Table 140.6-C*
[2] *See NRCC-LTI-01-E for unconditioned spaces*
[3] *Lighting information for existing spaces modeled is not included in the table*

N2. INDOOR CONDITIONED LIGHTING SCHEDULE § 130.0

This Section Does Not Apply

[1] *If lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for Luminaire Schedule details.*

N3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS § 140.6

This Section Does Not Apply

N4: INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS § 130.1

This Section Does Not Apply

§130.1(a) = Manual area controls; §130.0(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive

N5. TAILORED METHOD CONDITIONED LIGHTING POWER ALLOWANCE SUMMARY AND CHECKLIST § 140.6

General lighting power (see Table D)	0
General lighting power from special function areas (see Table E)	NA
Additional "use it or lose it" (See Table G)	0
Total watts	0

N6. GENERAL LIGHTING POWER § 140.6-D

This Section Does Not Apply

N7. GENERAL LIGHTING FROM SPECIAL FUNCTION AREAS § 140.6(c) 3H

Room Number	Primary Function Area	Illuminance Value (LUX)	Room Cavity Ratio (Table G)	Allowed LPD	Floor Area (ft²)	Allowed Watts	Confirmed	
							Pass	Fail
NA	NA	NA	NA	NA	NA	NA	☐	☐

Note: Tailored Method for Special Function Areas is not currently implemented

N8. ROOM CAVITY RATIO

Rectangular Spaces

Room Number	Task/Activity Description	Room Length (ft)	Room Width (ft)	Room Cavity Height (ft)	RCR	Confirmed	
						Pass	Fail
NA	NA	NA	NA	NA	NA	☐	☐

Non-Rectangular Spaces

This Section Does Not Apply

Note: All applicable spaces are listed under the Non-Rectangular Spaces table

N9. ADDITIONAL "USE IT OR LOSE IT"

1.	2.	3.	4.		Confirmed	
Wall Display	Combined Floor Display and Task Lighting	Combined Ornamental and Special Effects Lighting	Very Valuable Merchandise	Allowed Watts	Pass	Fail
0	0	0	0	**0**	☐	☐

N10. Wall Display

This Section Does Not Apply

N11. Floor Display and Task Lighting

This Section Does Not Apply

N12. Combined Ornamental and Special Effects Lighting

This Section Does Not Apply

N13. Very Valuable Merchandise

This Section Does Not Apply

N14. INDOOR & OUTDOOR LIGHTING ACCEPTANCE TESTS & FORMS § 130.4

Declaration of Required Acceptance Certificates (NRCA) –Acceptance Certificates that must be verified in the field. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).

Test Description		Indoor			Outdoor	Confirmed	
		NRCA-LTI-02-A	NRCA-LTI-03-A	NRCA-LTI-04-A	NRCA-LTO-02-A	Pass	Fail
Equipment Requiring Testing or Verification	# of units	Occ Sensors / Auto Time Switch	Auto Daylight	Demand Responsive	Outdoor Controls		
Occupant Sensors	0	☒	☐	☐	☐	☐	☐
Automatic Time Switch	0	☒	☐	☐	☐	☐	☐
Automatic Daylighting	0	☐	☐	☐	☐	☐	☐
Demand Responsive	1	☐	☐	☒	☐	☐	☐
Outdoor Controls	0	☐	☐	☐	☐	☐	☐

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online at: https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Building Component	YES	NO	Form/Title	Field Inspector	
				Pass	Fail
Envelope	☒	☐	NRCI-ENV-01-E - Must be submitted for all buildings	☐	☐
Mechanical	☒	☐	NRCI-MCH-01-E - Must be submitted for all buildings	☐	☐
Plumbing	☐	☒	NRCI-PLB-01-E - Must be submitted for all buildings	☐	☐
	☐	☒	NRCI-PLB-02-E - Must be submitted for high-rise residential and hotel/ motel central hot water distribution systems to be recognized for compliance	☐	☐
	☐	☒	NRCI-PLB-01-E - Must be submitted for all buildings	☐	☐
	☐	☒	NRCI-PLB-21-E - Must be HERS verified for central systems in high-rise residential hotel/ motel application	☐	☐
	☐	☒	NRCI-PLB-22-E - Must be HERS verified for single dwelling unit systems in high-rise residential, hotel/motel application	☐	☐
Indoor Lighting	☒	☐	NRCI-LTI-01-E - Must be submitted for all buildings	☐	☐
	☐	☒	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS) to be recognized for compliance	☐	☐
	☐	☒	NRCI-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance	☐	☐
	☐	☒	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance	☐	☐
	☐	☒	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance	☐	☐
	☐	☒	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance	☐	☐
Outdoor Lighting	☐	☒	NRCI-LTO-01-E - Must be submitted for all buildings	☐	☐
	☐	☒	NRCI-LTO-02-E - Must be submitted for EMCS Lighting Control system	☐	☐
Sign Lighting	☐	☒	NRCI-LTS-01-E - Must be submitted for all buildings	☐	☐
Electrical	☐	☒	NRCI-ELC-01-E - Must be submitted for all buildings	☐	☐
Photovoltaic	☐	☒	NRCI-SPV-01-E - Must be submitted for all buildings	☐	☐

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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Building Component	YES	NO	Form/Title	Field Inspector	
				Pass	Fail
Covered Process	☐	☒	NRCI-PRC-01-E - Must be submitted for all Refrigerated Warehouses	☐	☐

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Building Component	YES	NO	Form/Title	Field Inspector	
				Pass	Fail
Envelope	☒	☐	NRCA-ENV-02-F - NRFC label verification for fenestration	☐	☐
	☐	☐	NRCA-ENV-03-F - Daylighting Design PAFs	☐	☐

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Building Component	YES	NO	Form/Title	Field Inspector	
				Pass	Fail
Mechanical	☒	☐	NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap	☐	☐
	☒	☐	NRCA-MCH-03-A Constant Volume Single Zone HVAC	☐	☐
	☐	☒	NRCA-MCH-04(a)-H Air Distribution Duct Leakage - HERS Verification required	☐	☐
	☐	☐	NRCA-MCH-04(b)-A Air Distribution Duct Leakage - ATT only	☐	☐
	☒	☐	NRCA-MCH-05-A Air Economizer Controls	☐	☐
	☒	☐	NRCA-MCH-06-A Demand Control Ventilation Systems Acceptance must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints	☐	☐
	☒	☐	NRCA-MCH-07-A Supply Fan Variable Flow Controls	☐	☐
	☒	☐	NRCA-MCH-08-A Valve Leakage Test	☐	☐
	☒	☐	NRCA-MCH-09-A Supply Water Temperature Reset Controls	☐	☐
	☒	☐	NRCA-MCH-10-A Hydronic System Variable Flow Controls	☐	☐
	☒	☐	NRCA-MCH-11-A Automatic Demand Shed Controls	☐	☐
	☒	☐	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units	☐	☐
	☐	☒	NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance	☐	☐
	☐	☒	NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance	☐	☐
	☐	☒	NRCA-MCH-15-A Thermal Energy Storage (TES) System Acceptance	☐	☐
	☒	☐	NRCA-MCH-16-A Supply Air Temperature Reset Controls	☐	☐
	☐	☒	NRCA-MCH-17-A Condenser Water Temperature Reset Controls	☐	☐
	☐	☒	NRCA-MCH-18 Energy Management Control Systems	☐	☐
	☐	☒	NRCA-MCH-19 Occupancy Sensor Controls	☐	☐

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ISSUE FOR PLAN REVIEW	27 OCT 2021
ISSUE FOR PLANNING	15 DEC 2020
ISSUE FOR GRADING PERMIT	03 DEC 2020

Rev.	Description	Date
	AGENCY APPROVAL	

ARCHITECT SEAL

CONSULTANT SEAL

PE 37650 — Exp 3/31/22 — MECHANICAL — STATE OF CALIFORNIA

Drawing Title:

TITLE 24

Issue Date: 11/17/20
Project No.: 006240.00 Checked by: Checker

M0005

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Project Name:	TRI CITY PSYCH FACILITY	NRCC-PRF-01-E	Page 19 of 21
Project Address:	4002 Vista Way Oceanside 92056	Calculation Date/Time:	12:42, Thu, Oct 29, 2020
Input File Name:	Tri City Psych Bldg Final.cibd19x		

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Building Component	YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
Indoor Lighting	☒	☐	NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls	☐	☐
	☐	☒	NRCA-LTI-03-A - Automatic Daylight Controls	☐	☐
	☒	☐	NRCA-LTI-04-A - Demand Responsive Lighting Controls	☐	☐
	☐	☒	NRCA-LTI-05-A - Institutional Tuning Power Adjustment Factor (PAF)	☐	☐
Outdoor Lighting	☐	☒	NRCI-LTO-01-E - Must be submitted for all buildings	☐	☐
Sign Lighting	☐	☒	NRCA-LTO-02-A - Outdoor Lighting Controls	☐	☐
Covered Process	☐	☒	NRCA-PRC-01-F - Compressed Air Systems	☐	☐
	☐	☒	NRCA-PRC-02-F - Kitchen Exhaust	☐	☐
	☐	☒	NRCA-PRC-03-F - Garage Exhaust	☐	☐
	☐	☒	NRCA-PRC-04-F - Refrigerated Warehouse - Evaporator Fan Motor Controls	☐	☐
	☐	☒	NRCA-PRC-05-F - Refrigerated Warehouse - Evaporative Condenser Controls	☐	☐
	☐	☒	NRCA-PRC-06-F - Refrigerated Warehouse - Air Cooled Condenser Controls	☐	☐
	☐	☒	NRCA-PRC-07-F - Refrigerated Warehouse - Variable Speed Compressor	☐	☐
	☐	☒	NRCA-PRC-08-F - Electrical Resistance Underslab Heating System	☐	☐
	☐	☒	NRCA-PRC-15-F - Fume Hood Automatic Sash Closures System	☐	☐
	☐	☒	NRCA-PRC-16-A - Adiabatic Condensers	☐	☐

Project Name:	TRI CITY PSYCH FACILITY	NRCC-PRF-01-E	Page 20 of 21
Project Address:	4002 Vista Way Oceanside 92056	Calculation Date/Time:	12:42, Thu, Oct 29, 2020
Input File Name:	Tri City Psych Bldg Final.cibd19x		

Q. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents bust be retained and provided to the building inspector during construction and can be found online at: https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCV/

Building Component	YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
Mechanical	☐	☒	NRCV-MCH-04-H Duct Leakage Test	☐	☐
	☐	☒	NRCV-MCH-24-H Enclosure Air Leakage	☐	☐
	☐	☒	NRCV-MCH-27 Indoor Air Quality & Mechanical Ventilation	☐	☐
	☐	☒	NRCV-MCH-32-H Local Mechanical Exhaust	☐	☐
Plumbing	☐	☒	NRCV-PLB-21-H - HERS verified central systems in high-rise residential, hotel/motel application	☐	☐
	☐	☒	NRCV-PLB-22-H - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application	☐	☐

R. UNMET LOAD HOURS

This Section Does Not Apply

Project Name:	TRI CITY PSYCH FACILITY	NRCC-PRF-01-E	Page 21 of 21
Project Address:	4002 Vista Way Oceanside 92056	Calculation Date/Time:	12:42, Thu, Oct 29, 2020
Input File Name:	Tri City Psych Bldg Final.cibd19x		

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT § 10-103

Documentation Author Name: CannonDesign	Signature:
Company: Cannon Design	
Address:	Signature Date: 2020-10-29
City/State/Zip:	CEA/ HERS Certification Identification (if applicable):
Phone:	

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Envelope Designer Name:	**Signature:**	
Company:		
Address:	Date Signed:	
City/State/Zip:	Declaration Statement Type:	
Phone:	Title:	License #:
Responsible Lighting Designer Name:	**Signature:**	
Company:		
Address:	Date Signed:	
City/State/Zip:	Declaration Statement Type:	
Phone:	Title:	License #:
Responsible Mechanical Designer Name: - specify -	**Signature:**	
Company:		
Address:	Date Signed:	
City/State/Zip:	Declaration Statement Type:	
Phone:	Title:	License #:

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ARCHITECT SEAL

CONSULTANT SEAL

PE 37600
2/1/22
MECHANICAL
STATE OF CALIFORNIA

Drawing Title:

TITLE 24

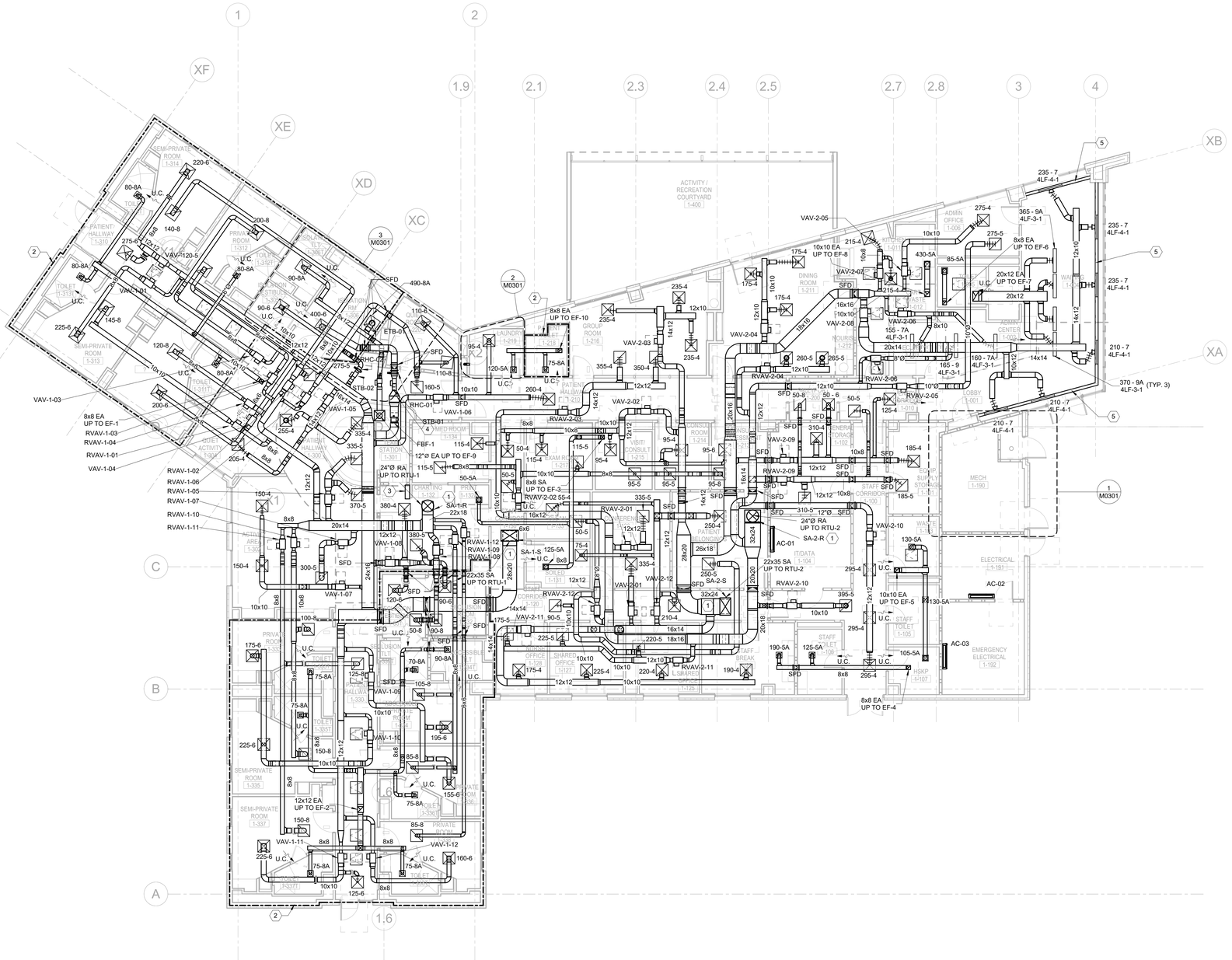
Issue Date: 11/17/20

Project No.: 006240.00 Checked by: Checker

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1 LEVEL 01 - HVAC DUCTWORK PLAN
1/8" = 1'-0"

TITLE 24 COMPLIANCE NOTES:

A. INSULATE ALL HVAC PIPING AND DUCTWORK. INSULATION THICKNESS AND R-VALUES SHALL COMPLY WITH TITLE 24 REQUIREMENTS (SECTION 120.3, 120.4 & 120.7) TITLE 24 ENERGY STANDARDS AND CHAPTER 6 OF CMC.

B. ALL HVAC SYSTEMS SHALL MEET THE CONTROL REQUIREMENTS PER SECTION 110.2 & 120.2 E.E.S.

C. ALL HVAC EQUIPMENT AND APPLIANCES SHALL MEET THE REQUIREMENTS PER SECTION 110.1 - 110.3, 110.5, 120.1 - 120.4 TITLE 24 ENERGY STANDARDS.

D. A DUCT LEAKAGE TEST THE COMPLIES WITH CMC 603.10.1 MUST BE CONDUCTED.

E. CENTRAL AIR HANDLING SYSTEM REQUIREMENTS OF CMC 408.1.4 MUST BE FOLLOWED.

GENERAL NOTES:

A. REFER TO HVAC SEISMIC RESTRAINT AND VIBRATION ISOLATION DETAILS ON DWGS M0704 THRU M0710 FOR SEISMIC DETAILS PERTAINING TO DUCTWORK, PIPING AND EQUIPMENT SUPPORTS.

B. REFER TO ARCHITECTURAL CEILING PLAN ON DWGS A0700 FOR ACCESS PANEL LOCATION FOR EQUIPMENT INSTALLED ABOVE HARD GYP CEILINGS. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ALL TRADES IN INSTALLING UNIT AND ACCESS PANEL.

C. COORDINATE SUPPLY,RETURN & EXHAUST AIR REGISTERS, GRILLES, AND DIFFUSER PLACEMENT WITH ARCHITECTURAL REFLECTED CEILING PLAN, LIGHTING PLAN AND STRUCTURE.

D. MAINTAIN 3/4" DOOR UNDERCUT WHERE INDICATED ON DWGS. REFER TO VENTILATION SCHEDULE FOR UNDERCUT CFM.

E. REFER TO BRANCH DUCT SCHEDULE ON DWG M0502 FOR DUCT SIZES TO AIR REGISTERS, GRILLES AND DIFFUSERS.

F. PROVIDE A COMBINATION SMOKE-FIRE DAMPER (SFD) FOR EACH (SUPPLY, RETURN, TRANSFER, AND EXHAUST) DUCTWORK PENETRATING INDICATED RATED PARTITION. COORDINATE WITH ELECTRICAL AND FIRE ALARM CONTRACTORS FOR INSTALLATION OF REQUIRED (120/1/60) DEDICATED POWER CONNECTION/CIRCUIT AND INTERFACE OF SFD WITH FIRE ALARM SYSTEM.

NOTES:

1. PROVIDE SOUND ATTENUATOR. REFER TO SHEET M0502 FOR SOUND ATTENUATOR SCEDULE.
2. ALL VOLUME DAMPERS INDICATED ON PLAN WITHIN AREA LOCATED ABOVE HARD GYP CEILINGS TO BE BATTERY OPERATED REMOTE VOLUME DAMPERS. WIRING TO RUN FROM REMOTE VOLUME DAMPERS TO CHARTING ROOM 1-132 AND TERMINATE AT MODULE BUS. REFER TO DETAIL 1/M0703.
3. CONTRACTOR SHALL INSTALL REMOTE VOLUME DAMPER MODULE BUS ON WALL WITHIN CHARTING ROOM. DAMPERS SHALL BE BALANCED VIA BATTERY OPERATED VOLUME DAMPERS. COORDINATE FINAL QUANITY WITH FINAL QTY OF VOLUME DAMPERS. COORDINATE INSTALLATION ON WALL WITH OTHER TRADES. REFER TO DETAIL 1/M0703.
4. PROVIDE WITH VARICEL VXL MERV 14 FILTER HOUSED IN SUREAIRE FILTER HOUSING SIZED AT 20"X20"X12".
5. PROVIDE BLANK-OFF SECTIONS AS REQUIRED TO PROVIDE A CONTINUOUS SLOT DIFFUSER APPEARANCE.

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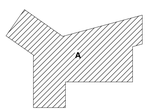
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	ISSUE FOR PLAN REVIEW BACKCHECK	21 JAN 2022
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	ISSUE FOR PLANNING	15 DEC 2020
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CONSULTANT SEAL

PE 37802
Exp. 6/30/23
REGISTERED PROFESSIONAL ENGINEER
KEITH RICHARD HUNTSMAN
MECHANICAL
STATE OF COLORADO

KEY PLAN



KEY PLAN

Drawing Title:

LEVEL 01 - HVAC DUCTWORK PLAN

Issue Date: 09/17/2021

Project No.: 006240.00 Checked by: Checker

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TITLE 24 COMPLIANCE NOTES:

A. INSULATE ALL HVAC PIPING AND DUCTWORK. INSULATION THICKNESS AND R-VALUES SHALL COMPLY WITH TITLE 24 REQUIREMENTS (SECTION 120.3, 120.4 & 120.7) TITLE 24 ENERGY STANDARDS AND CHAPTER 6 OF CMC.

B. ALL HVAC SYSTEMS SHALL MEET THE CONTROL REQUIREMENTS PER SECTION 110.2 & 120.2 E.E.S.

C. ALL HVAC EQUIPMENT AND APPLIANCES SHALL MEET THE REQUIREMENTS PER SECTION 110.1 - 110.3, 110.5, 120.1 - 120.4 TITLE 24 ENERGY STANDARDS.

D. A DUCT LEAKAGE TEST THE COMPLIES WITH CMC 603.10.1 MUST BE CONDUCTED.

E. CENTRAL AIR HANDLING SYSTEM REQUIREMENTS OF CMC 408.1.4 MUST BE FOLLOWED.

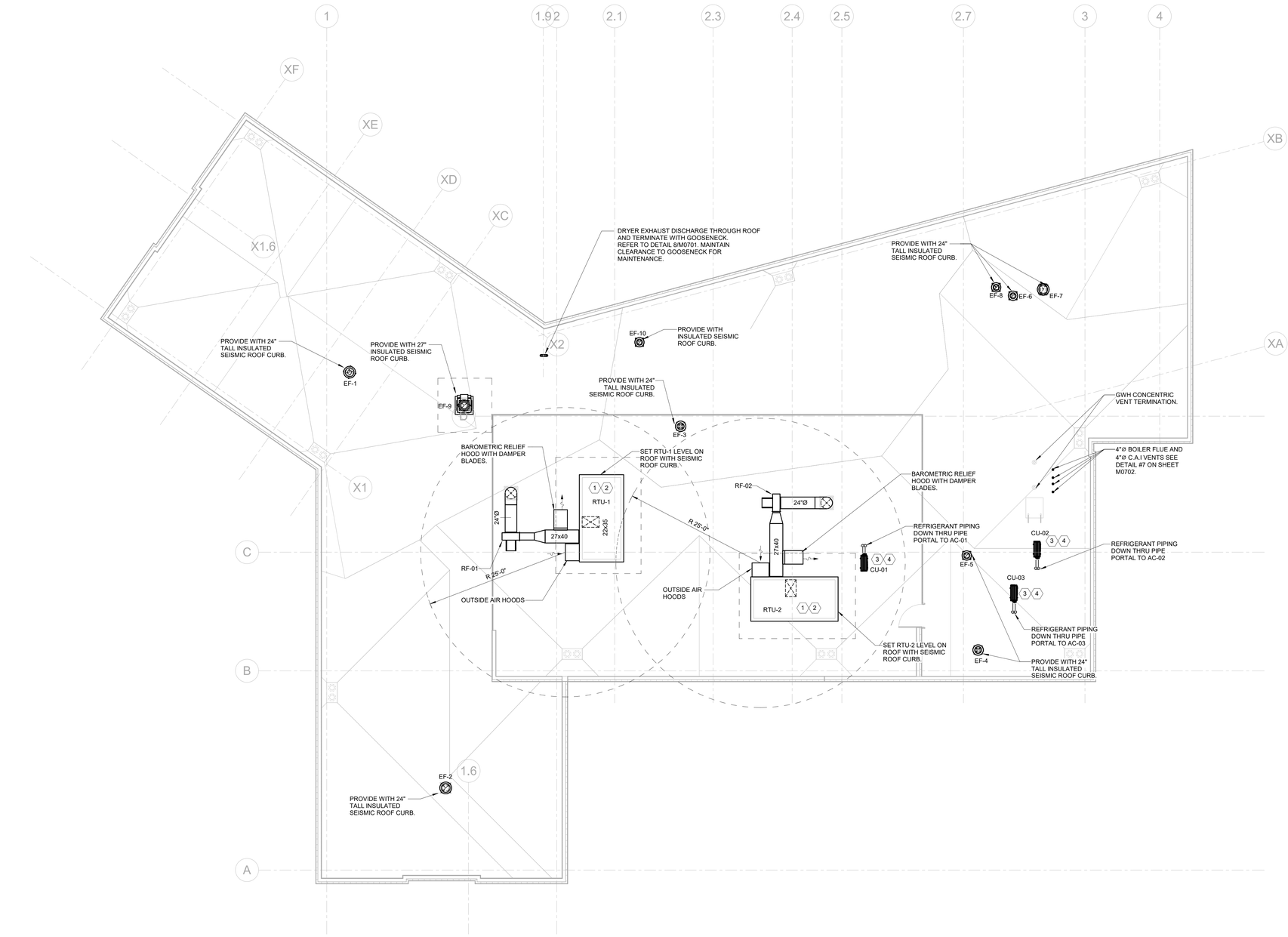
GENERAL NOTES:

A. REFER TO HVAC SEISMIC RESTRAINT AND VIBRATION ISOLATION DETAILS ON DWGS M0704 THRU M0710 FOR SEISMIC DETAILS PERTAINING TO DUCTWORK, PIPING AND EQUIPMENT SUPPORTS.

B. REFER TO DETAIL #8/M0703 FOR TYPICAL ROOFTOP DUCTWORK SUPPORT DETAIL.

NOTES:

1. REFER TO PLUMBING DRAWINGS FOR CONDENSATE DRAIN (CD) P-TRAP AND PIPING ROUTING FROM RTU'S TO FINAL POINT OF TERMINATION.
2. FIELD COORDINATE INSTALLATION LOCATION OF ALL EXHAUST FANS, FLUE VENTS, AND PLUMBING VENT LINES WILL ALL TRADES ON PROJECT. MAINTAIN A 25'-0" CODE REQUIRED SEPARATION BETWEEN RTU'S OAI INTAKE OPENING AND ANY NOXIOUS VENT OPENING ON ROOF.
3. EXTEND AND CONNECT REFRIGERANT PIPING BETWEEN ROOF MOUNTED CONDENSING UNIT AND INDOOR EVAPORATOR UNIT. ROUTE REFRIGERANT PIPING DOWN THRU ROOF IN PIPE CURB. SIZED REFRIGERANT PIPING PER AC & CU MANUFACTURERS' RECOMMENDATIONS.
4. SET CONDENSING UNIT LEVEL ON ROOF WITH EQUIPMENT RAILS



1 ROOF - HVAC DUCTWORK PLAN
1/8" = 1'-0"

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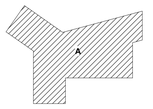
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ARCHITECT SEAL

CONSULTANT SEAL

REGISTERED PROFESSIONAL ENGINEER — MATTHEW RICHARD HARRISON — PE 37650 — Exp. 3/31/22 — MECHANICAL — STATE OF CALIFORNIA

KEY PLAN



KEY PLAN

Drawing Title:

ROOF - HVAC PLAN

Issue Date: 08/07/2020

Project No.: 006240.00 Checked by: Checker

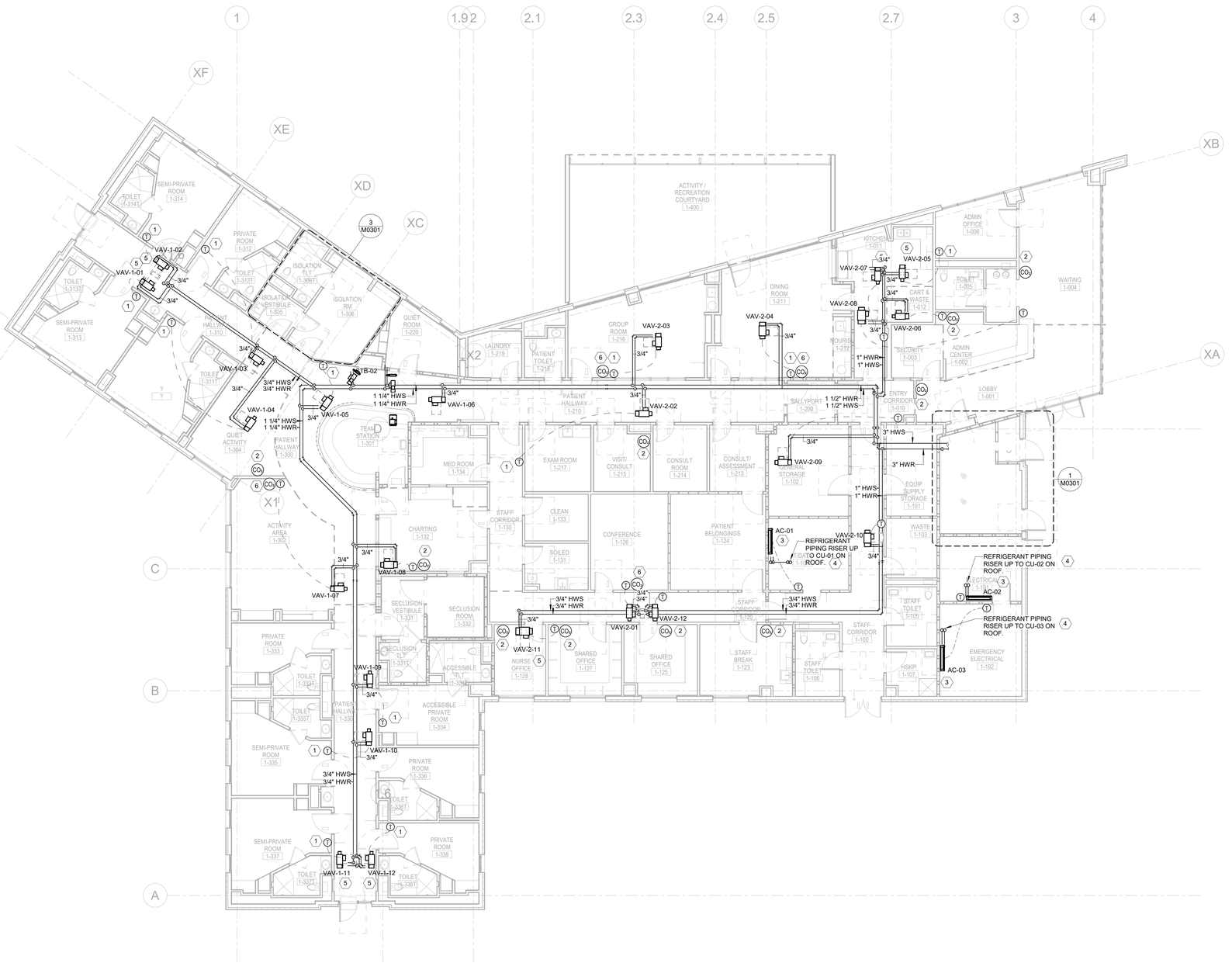
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1 LEVEL 01 - HVAC PIPING PLAN
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TITLE 24 COMPLIANCE NOTES:

A. INSULATE ALL HVAC PIPING AND DUCTWORK. INSULATION THICKNESS AND R-VALUES SHALL COMPLY WITH TITLE 24 REQUIREMENTS (SECTION 120.3, 120.4 & 120.7) TITLE 24 ENERGY STANDARDS AND CHAPTER 6 OF CMC.

B. ALL HVAC SYSTEMS SHALL MEET THE CONTROL REQUIREMENTS PER SECTION 110.2 & 120.2 E.E.S.

C. ALL HVAC EQUIPMENT AND APPLIANCES SHALL MEET THE REQUIREMENTS PER SECTION 110.1 - 110.3, 110.5, 120.1 - 120.4 TITLE 24 ENERGY STANDARDS.

D. A DUCT LEAKAGE TEST THE COMPLIES WITH CMC 603.10.1 MUST BE CONDUCTED.

E. CENTRAL AIR HANDLING SYSTEM REQUIREMENTS OF CMC 408.1.4 MUST BE FOLLOWED.

GENERAL NOTES:

A. REFER TO HVAC SEISMIC RESTRAINT AND VIBRATION ISOLATION DETAILS ON DWGS M0704 THRU M0709 FOR SEISMIC DETAILS PERTAINING TO DUCTWORK, PIPING AND EQUIPMENT SUPPORTS.

KEYED NOTES:

1. CONTRACTOR TO INSTALL TAMPER PROOF SECURITY THERMOSTAT. LOCAL SPACE THERMOSTAT SHALL PROVIDE OCCUPANT SETPOINT AND ROOM TEMPERATURE READING. REFER TO DETAIL #2/M0702 FOR INSTALLATION DETAIL.
2. PROVIDE TAMPER AND LIGATURE PROOF SECURITY CO2 SENSOR WHERE SHOWN. CO2 SENSOR SHALL BE TIED TO BAS AND PROVIDE ALARM WHEN CO2 SETPOINT IS EXCEEDED BY MORE THAN 10%. THE CO2 SENSOR READING SHALL BE DISPLAYED CONTINUOUSLY SEE DETAIL #4/M0601 FOR ADDITIONAL INFORMATION. CO2 SENSORS ARE TO BE MOUNTED BETWEEN 3 AND 6 FEET ABOVE THE FINISHED FLOOR, COORDINATE WITH ARCHITECTURAL DRAWINGS.
3. REFER TO PLUMBING DRAWINGS FOR CONDENSATE DRAIN (CD) P-TRAP AND PIPING ROUTING FROM AC UNIT TO FINAL POINT OF TERMINATION.
4. EXTEND AND CONNECT REFRIGERANT PIPING BETWEEN ROOF MOUNTED CONDENSING UNIT AND INDOOR EVAPORATOR UNIT. ROUTE REFRIGERANT PIPING DOWN THRU ROOF IN PIPE CURB. SIZED REFRIGERANT PIPING PER AC & CU MANUFACTURERS' RECOMMENDATIONS.
5. PROVIDE WITH 3-WAY CONTROL VALVE AT VAV BOX REHEAT COIL. REFER TO DETAIL #6/M0702
6. PROVIDE TAMPER AND LIGATURE PROOF SECURITY CO2 SENSOR WHERE SHOWN. CO2 SENSOR SHALL BE TIED TO BAS AND PROVIDE ALARM WHEN CO2 SETPOINT IS EXCEEDED. THE CO2 SENSOR READING SHALL BE DISPLAYED CONTINUOUSLY SEE DETAIL #4/M0601 FOR ADDITIONAL INFORMATION. CO2 SENSORS ARE TO BE MOUNTED BETWEEN 3 AND 6 FEET ABOVE THE FINISHED FLOOR, COORDINATE WITH ARCHITECTURAL DRAWINGS.

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CONSULTANT SEAL

PE 37650
3/21/22
MECHANICAL
STATE OF CALIFORNIA

KEY PLAN



KEY PLAN

Drawing Title:

LEVEL 01 - HVAC PIPING PLAN

Issue Date: 08/07/2020

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ISOLATION ROOM (AII) CODE NOTES:

A. DEDICATED EXHAUST SYSTEM SHALL BE PROVIDED FOR AIRBORNE INFECTION ISOLATION ROOMS. THE DEDICATED SYSTEM MAY SERVE MORE THAN ONE AIR- BORNE INFECTION ISOLATION ROOM, ADJOINING TOILET ROOM AND ANTEROOM. THE EXHAUST DUCTS SHALL BE IDENTIFIED BY APPRO- PRIATE LABELING WITH THE WORDS "CAUTION AIRBORNE INFECTION ISOLATION ROOMS EXHAUST" OR SIMILAR TERMINOLOGY. SUCH LABELING SHALL BE IN A MANNER WHICH IS NOT READILY REMOVABLE AND SHALL APPEAR ON THE EXHAUST DUCT AT INTERVALS OF NOT MORE THAN 20 FEET (6096 MM) AND AT LEAST ONCE NEAR EACH ROOM AND EACH STORY TRAVERSED BY THE EXHAUST SYSTEM. EXHAUST FANS SHALL COMPLY WITH SECTION 407.1.2. THE DISCHARGE FROM EXHAUST FANS SHALL BE LOCATED ABOVE THE ROOF AND SHALL BE LOCATED A MINIMUM OF 25 FEET (7620 MM) FROM AREAS THAT MAY BE OCCUPIED, DOORS, OPERABLE WINDOWS, OUTDOOR AIR INTAKES, OR OTHER OPENINGS INTO THE BUILDING. THE EXHAUST FAN DIS- CHARGE SHALL BE LABELED IN A MANNER WHICH READILY IDENTIFIES THE PRECAUTIONS WHICH SHOULD BE OBSERVED. TO ENSURE THAT THE AIRBORNE CONTAMINATES DO NOT REENTER THE BUILDING (2019 CMC 414.1)

B. EXHAUST DISCHARGE FROM FAN SHALL EXTEND AT LEAST 7 FEET (2134 MM) ABOVE THE ROOF AND DISCHARGE VERTICALLY UPWARD. SELF-DRAINING STACKS OR EQUIVALENT SHALL BE USED FOR RAIN PROTECTION. RAIN CAPS WHICH DIVERT THE EXHAUST TOWARD THE ROOF SHALL BE PROHIBITED. (2019 CMC 414.1.1)

C. AN ALARM SYSTEM WHICH IS BASED ON STATIC PRESSURE CON- TROL, VOLUMETRIC CONTROL, OR DIRECTIONAL FLOW MEASUREMENT SHALL BE PROVIDED FOR EACH ISOLATION ROOM. THE ALARM SYSTEM SHALL CONSIST OF A DISPLAY MONITOR LOCATED ON THE CORRIDOR WALL NEAR THE DOOR TO THE ROOM AND A VISUAL AND AUDIBLE ALARM WHICH ANNUNCIATES AT THE ROOM AND AT A NURSES' STATION OR OTHER SUIT- ABLE LOCATION THAT WILL PROVIDE RESPONSIBLE SURVEILLANCE. A TIME DELAY SHALL BE PROVIDED TO ALLOW FOR ROUTINE OPENINGS OF DOORS. THE ALARM SHALL ANNUNCIATE WHEN THE SUPPLY, RETURN, OR EXHAUST FANS ARE INTERRUPTED OR WHEN THE MINIMUM REQUIRED PRESSURE DIFFERENTIAL PER ASHRAE 170 BETWEEN THE AIRBORNE INFECTION ISOLATION ROOM AND CORRIDOR OR BETWEEN THE PROTEC- TIVE ENVIRONMENT ROOM AND CORRIDOR IS NOT BEING MET DURING CLOSED DOOR CONDITIONS. (2019 CMC 416.1)

D. PRIOR TO ACCEPTANCE OF THE ROOMS, ALL MECHANICAL SYSTEMS SHALL BE TESTED, BALANCED, AND OPER- ATED TO DEMONSTRATE TO THE OWNER OR DESIGNATED REPRESENTATIVE THAT THE INSTALLATION AND PERFORMANCE OF THE SYSTEMS CONFORM TO DESIGN INTENT. ALL TESTING AND BALANCING SHALL BE PERFORMED BY A QUALIFIED INDEPENDENT AGENCY CERTIFIED BY THE ASSOCIATED AIR BALANCE COUNCIL (AABC): THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB); OR THE TESTING, ADJUSTING AND BAL- ANCING BUREAU (TABB). (2019 CMC 417.0)

DRYER EXHAUST NOTES:

1. DRYER VENTING SHALL TERMINATE ON THE EXTERIOR OF THE BUILDING AND WILL HAVE A BACK DRAFT DAMPER (FLAPPER). SCREENS SHALL NOT BE PERMITTED OR INSTALLED AT THE DRYER VENT TERMINATION. 2019 CMC SEC. 504.3.
2. A MINIMUM OF A 4-INCH DIAMETER DUCT IS REQUIRED. (2019 CMC 504.3.2)
3. CLOTHES DRYER VENT DUCTS SHALL BE METAL AND SHALL HAVE A SMOOTH INTERIOR SURFACE. (2019 CMC 504.3.2)
4. A DRYER VENT DUCT SHALL NOT EXCEED THE MAXIMUM LENGTH (HORIZONTAL AND/OR VERTICAL) OF 14 FEET INCLUDING TWO (90-DEGREE) TURNS WITHOUT A MECHANICAL UPGRADE. TWO FEET OF LENGTH SHALL BE DEDUCTED FOR EACH ADDITIONAL 90-DEGREE TURN. (2019 CMC 504.3.2.2)

TITLE 24 COMPLIANCE NOTES:

A. INSULATE ALL HVAC PIPING AND DUCTWORK. INSULATION THICKNESS AND R-VALUES SHALL COMPLY WITH TITLE 24 REQUIREMENTS (SECTION 120.3, 120.4 & 120.7) TITLE 24 ENERGY STANDARDS AND CHAPTER 6 OF CMC.

B. ALL HVAC SYSTEMS SHALL MEET THE CONTROL REQUIREMENTS PER SECTION 110.2 & 120.2 E.E.S.

C. ALL HVAC EQUIPMENT AND APPLIANCES SHALL MEET THE REQUIREMENTS PER SECTION 110.1 - 110.3, 110.5, 120.1 - 120.4 TITLE 24 ENERGY STANDARDS.

D. A DUCT LEAKAGE TEST THE COMPLIES WITH CMC 603.10.1 MUST BE CONDUCTED.

E. CENTRAL AIR HANDLING SYSTEM REQUIREMENTS OF CMC 408.1.4 MUST BE FOLLOWED.

GENERAL NOTES:

A. REFER TO HVAC SEISMIC RESTRAINT AND VIBRATION ISOLATION DETAILS ON DWGS M0704 THRU M0710 FOR SEISMIC DETAILS PERTAINING TO DUCTWORK, PIPING AND EQUIPMENT SUPPORTS.

B. REFER TO ARCHITECTURAL CEILING PLAN ON DWGS A0700 FOR ACCESS PANEL LOCATION FOR EQUIPMENT INSTALLED ABOVE HARD GYP CEILINGS. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ALL TRADES IN INSTALLING UNIT AND ACCESS PANEL.

C. COORDINATE SUPPLY,RETURN & EXHAUST AIR REGISTERS, GRILLES, AND DIFFUSER PLACEMENT WITH ARCHITECTURAL REFLECTED CEILING PLAN, LIGHTING PLAN AND STRUCTURE.

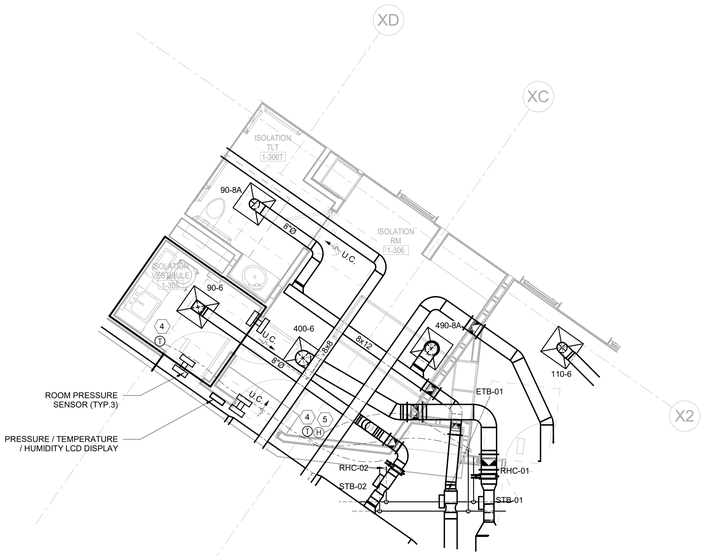
D. MAINTAIN 3/4" DOOR UNDERCUT WHERE INDICATED ON DWGS. REFER TO VENTILATION SCHEDULE FOR UNDERCUT CFM.

E. REFER TO BRANCH DUCT SCHEDULE ON DWG MXXXX FOR DUCT SIZES TO AIR REGISTERS, GRILLES AND DIFFUSERS.

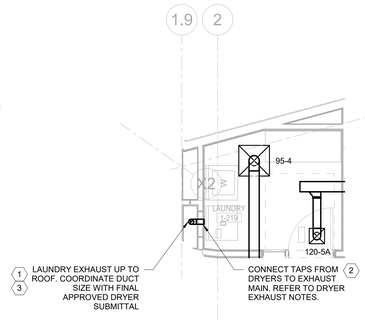
F. REFER TO CONTROL DIAGRAM #2/M0605 FOR ISOLATION RM (AII) CONTROL OPERATION.

NOTES:

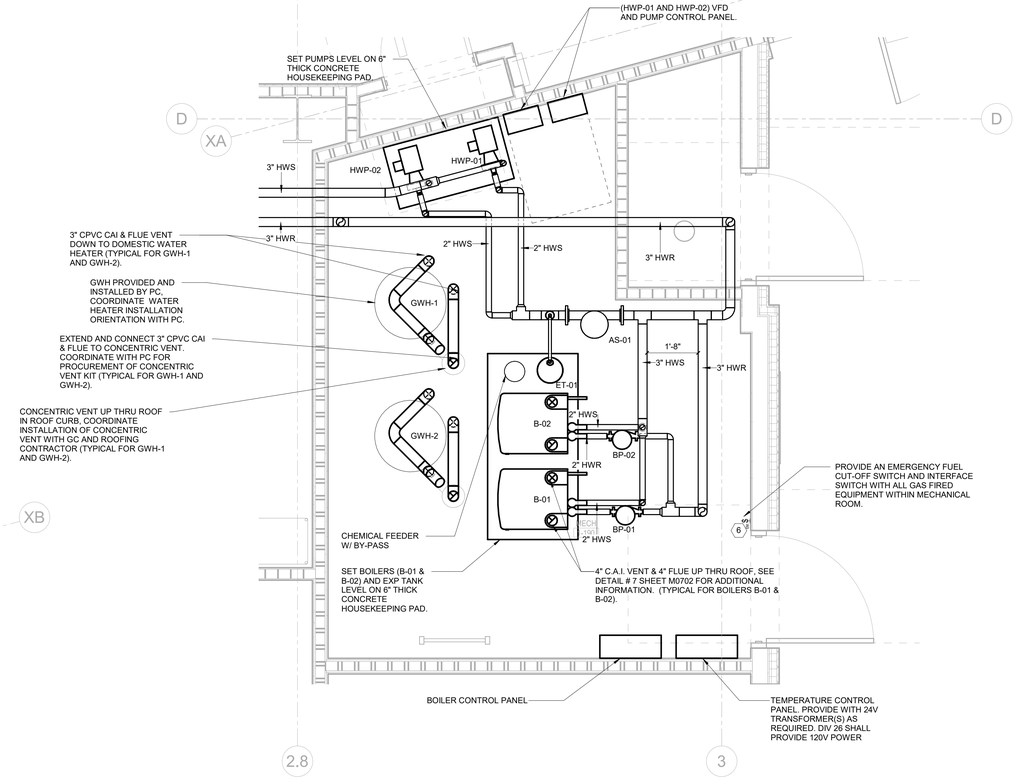
1. DRYER EXHAUST DUCT MATERIAL MUST TRANSITION TO SELKIRK GLAVA TEMP DUCTWORK PRIOR TO ENTERING CEILING PLENUM.
2. DRYER EXHAUST DUCTS SHALL NOT BE CONNECTED OR INSTALLED WITH SHEET METAL SCREWS OR OTHER FASTENERS THAT WILL OBSTRUCT THE EXHAUST AIRFLOW.
3. PROVIDE DUCT ACCESS DOOR AT DRYER EXHAUST VERTICAL RISER TO ALLOW FOR A MEANS TO CLEANOUT.
4. CONTRACTOR TO INSTALL TAMPER PROOF SECURITY THERMOSTAT. LOCAL SPACE THERMOSTAT SHALL PROVIDE OCCUPANT SETPOINT AND ROOM TEMPERATURE READING. REFER TO DETAIL #2/M0702 FOR INSTALLATION DETAIL.
5. CONTRACTOR TO INSTALL TAMPER PROOF SECURITY HUMIDISTAT.
6. COORDINATE WITH ELECTRICAL CONTRACTOR FOR PROCUREMENT AND INSTALLATION OF SOLENOID VALVE. ELECTRICAL CONTRACTOR SHALL PROVIDE AND POWER SOLENOID VALVE. MECHANICAL CONTRACTOR SHALL INSTALL SOLENOID VALVE, AND CONTROLS CONTRACTOR SHALL INTERFACE SOLENOID VALVE WITH GAS FIRED EQUIPMENT AND EMERGENCY FUEL CUT-OFF SWITCH.



3 ENLARGED ISOLATION ROOM PLANS
1/4" = 1'-0"



2 ENLARGED LAUNDRY ROOM PLAN
1/4" = 1'-0"



1 ENLARGE MECHANICAL ROOM PLAN
1/2" = 1'-0"

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SPLIT SYSTEM COOLING UNIT SCHEDULE

TAG	AREA SERVED	FAN DATA AIRFLOW (CFM)	NOMINAL CAPACITY (TONS)	COOLING CAPACITY TOTAL COOLING (MBH)	REFRIGERANT TYPE -	REFRIGERANT CHARGE lbs - oz.	PIPE SIZE SUCTION	PIPE SIZE LIQUID	EFFICIENCY SEER	EFFICIENCY EER	# CIRC.	AMB TEMP (F)	ENTERING AIR DB (F)	ENTERING AIR WB (F)	LEAVING AIR DB (F)	LEAVING AIR WB (F)	ELECTRICAL DATA VOLT	PH	HZ	FLA	MCA	MOCP	DISCONNECT SWITCH	UNIT WEIGHT (LBS)	MANUFACTURER	MODEL NO.	REMARKS
AC-01	1-104 IT/DATA	255	1	6	R410A	4 lbs - 7 oz	1-2"	1/4"	20.8	12.6	-	-	75.7	59.4	55	50.9	208	1	60	0.33	1	-	-	29	MITSUBISHI	PKA-A12HA7	1,2,3,4,6,9,10,11
CU-01	1-104 IT/DATA	-	1	6	R410A	4 lbs - 7 oz	1-2"	1/4"	20.8	12.6	1	95	-	-	-	-	208	1	60	0.50	11	28	Y	92	MITSUBISHI	PUY-A12NKA7	3,5,7,8,9
AC-02	1-191 ELECTRICAL	290	1	7	R410A	4 lbs - 7 oz	1-2"	1/4"	20.8	12.6	-	-	75.9	59.8	55	51.4	208	1	60	0.33	1	-	-	29	MITSUBISHI	PKA-A12HA7	1,2,3,4,6,9,10,11
CU-02	1-191 ELECTRICAL	-	1	7	R410A	4 lbs - 7 oz	1-2"	1/4"	20.8	12.6	1	95	-	-	-	-	208	1	60	0.50	11	28	Y	92	MITSUBISHI	PUY-A12NKA7	3,5,7,8,9
AC-03	1-192 EMERGENCY ELECTRICAL	760	2	17.5	R410A	7 lbs - 11 oz	5/8"	3/8"	21.4	12.2	-	-	75.6	59.7	55	51.4	208	1	60	0.36	1	-	-	46	MITSUBISHI	PKA-A24KA7	1,2,3,4,6,9,10,11
CU-03	1-192 EMERGENCY ELECTRICAL	-	2	17.5	R410A	7 lbs - 11 oz	5/8"	3/8"	21.4	12.2	1	95	-	-	-	-	208	1	60	0.40	19	26	Y	151	MITSUBISHI	PUY-A24NHA7	3,5,7,8,9

REMARKS:

1. PROVIDE AC UNIT WITH REMOTE WALL MOUNTED ZONE THERMOSTAT.
2. PROVIDE AC UNIT WITH CONDENSATE PUMP, INTERFACE CONDENSATE PUMP'S ELECTRICAL POWER CONNECTION WITH AC UNIT'S SINGLE POINT POWER CONNECTIION.
3. PROVIDED FULL TWO (2) YEAR PARTS AND LABOR WARRANTY OF THE UNIT AND START-UP ASSISTANCE.
4. MECHANICAL CONTRACTOR SHALL LABEL AIR CONDITIONER UNIT WITH DESIGNATED TAG IDENTIFICATION, ELECTRICAL PANEL AND CIRCUIT BREAKER SERVING THE UNIT.
5. PROVICE UNIT WITH LOCAL DISCONNECT SWITCH AND MOTOR STARTER.
6. PROVIDE AC UNIT WITH WALL MOUNTED SUPPORT KIT.
7. PROVIDE CONDENSING UNIT (CU) WITH DISCONNECT SWITCH AND EQUIPMENT SUPPORT RAILS, SET CU LEVEL ON ROOF.
8. INTERFACE CONDENSING UNIT WITH BAS. BAS SHALL RECEIVE ALL UNIT'S ALARMS, UNIT OPERATING STATUS, AND SPACE...
9. PROVIDE UNIT WITH MANUFACTUER RECOMMENDED REFRIGERANT PIPE TRIM AND VALVES.
10. PROVIDE AC UNIT WITH VIBRATION ISOLATION SUPPORT HANGERS.
11 PROVIDE AC UNIT WITH BLUEDIAMOND MAXIBLUE CONDENSATE PUMP (208V) WITH ATTACHED RESOVOIR AND SENSOR.

BOILER SCHEDULE

UNIT NO.	TYPE	BURNER CAPACITY INPUT (MBH)	BURNER CAPACITY GROSS OUTPUT (MBH)	BURNER CAPACITY MIN. INLET GAS PRESS. (IN WG)	EFFICIENCY (%)	FLUE VENT DIA. (IN)	HOT WATER CAPACITY (GAL)	HOT WATER MIN GPM	HOT WATER MAX GPM	HOT WATER EWT (°F)	HOT WATER LWT (°F)	HOT WATER MAX. PRESS. DROP (FT)	RELIEF VALVE SETTING (PSI)	V/PH/HZ	UNIT FLA	EMERGENCY POWER	DIMENSIONS LxWxH	MAX. OPERATING WEIGHT (LBS)	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	REMARKS
B-01	CONDENSING FIRE TUBE	500	495	3	93.8	4	4	12	40	120	150	40	50	120/1/60	2.5	-	34.8x23.6x45.7	310	AERCO	AM 500	1 THRU 6
B-02	CONDENSING FIRE TUBE	500	495	3	93.8	4	4	12	40	120	150	40	50	120/1/60	2.5	-	34.8x23.6x45.7	310	AERCO	AM 500	1 THRU 6

NOTES:

1. PROVIDE BOILER PLANT WITH BOILER SYSTEM CONTROLS FOR MASTER/MEMBER NETWORK CONTROLS (LEAD/LAG AND RUN TIME CONTROL).
2. PROVIDE WITH BAS/LOCAL SWITCH AND MANUAL CAPACITY CONTROL
3. PROVIDE NEUTRALIZING PAN FOR BOILER'S CONDENSATE DRAIN AND FLUE VENT'S P-TRAP DRAIN.
4. PROVIDE WITH BOILER CONTROL PANEL AND BAS COMMUNICATION INTERFACE (BACNET)
5. BOILER FLUE LAYOUT SHALL BE REVIEWED AND APPROVED BY THE BOILER MANUFACTURER.
6. PROVIDE BOILER WITH INLINE PUMP, INTERFACE PUMP'S ON CONTROL WITH RESPECTIVE BOILER.

ROOFTOP UNIT SCHEDULE

TAG	LOCATION	NOMINAL TONS	DISCHARGE DIRECTION	SUPPLY AIR DATA SUPPLY CFM	OAI CFM	ESP IN. W.C.	FAN HP	FAN BHP	FAN RPM	DX COOLING DATA CAPACITY (MBH) TOTAL	CAPACITY (MBH) SENSIBLE	EAT (F) DB	EAT (F) WB	LAT (F) DB	LAT (F) WB	NO. OF COMP.	ABMT F	EFFICIENCY EER	EFFICIENCY IEER	FILTER	REFRIGERANT TYPE	MCA	MOCP	VOLT	PH	HZ	UNIT DIMENSIONS (LxWxH)	UNIT WT. (LBS)	MANUFACTURER AND MODEL	REMARKS
RTU-1	ROOF	15	DOWNWARD	5025	1680	2.6	5	5.75	1283	184.7	130.4	80	67	58	56.3	4	95	12.2	13.4	MERV-13	R-410A	37.6	40	460	3	60	181"x92"x53"	2799	YORK / ZJ180C00G4C1DCD3A1	1,2,3,4,5
RTU-2	ROOF	20	DOWNWARD	7415	2795	2.6	7.5	8.63	1180	258.5	188.5	80	67	58.2	56.8	4	95	11	12.15	MERV-13	R-410A	47.7	50	460	3	60	181"x92"x53"	2892	YORK / ZJ240C00G4C1DCD3A1	1,2,3,4,5

REMARKS:

1. PROVIDE RTU WITH FACTORY INSTALLED UNIT MOUNTED STAND-ALONE CONTROLS AND INTERFACE UNIT WITH B.A.S.
2. PROVIDE RTU'S SUPPLY, RETURN, AND EXHAUST FANS WITH VERIABLE FREQUENCY DRIVES (VFD).
3. PROVIDE RTU WITH (SUPPLY AIR, RETURN AIR, & OUTDOOR AIR) AIRFLOW MEASURING STATIONS.
4. PROVIDE RTU WITH 18" INSULATED ROOF CURB, COORDINATE WITH STRUCTURAL STEEL CONTRACTOR TO PROVIDE REQUIRED STEEL BLOCKING BETWEEN ROOF JOISTS AND CORRUGATED ROOFING TO ENSURE UNIT IS PROPERLY SUPPORTED.
5. RTU IS A MULTI-ZONE VAV UNIT WITH HW REHEAT VAV TERMINAL BOXES. PROVIDE VFD ON SUPPLY FAN, WITH A CONSTANT DISCHARGE AIR TEMPERATURE AND VARYING AIRFLOW SERVING TERMINAL BOXES.

EXPANSION TANK SCHEDULE

TAG	LOCATION	SERVICE	TANK CAPACITY (GALLONS)	ACCEPTANCE VOLUME (GALLONS)	FILL PRESSURE (PSIG)	MAX.PRESSURE RATING (PSIG)	WEIGHT (LBS)	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL
ET-01	1-190 MECH	HOT WATER	6.0	3	14	125	65	BELL & GOSSET	B-35LA

AIR SEPARATOR SCHEDULE

TAG	LOCATION	SERVICE	MAX FLOW (GPM)	DESIGN CAPACITY (GPM)	MAX PRESSURE DROP (FT)	MAX PRESSURE RATING (PSIG)	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	REMARKS
AS-01	1-190 MECH	HOT WATER	190	85	0.15	125	BELL & GOSSETT	R-3F	1

REMARKS:

1. INCLUDE STRAINER

PUMP SCHEDULE

TAG	LOCATION	UNIT SERVED	GPM	HEAD (FT)	RPM	IMPELLER IN.	MOTOR (HP)	BHP	V/PH/HZ	WEIGHT LBS	MANUFACTURER AND MODEL	REMARKS
BP-01	1-190 MECH	B-01	30	40	3600	3.75	1.5	0.495	480/3/60	127	BELL&GOSSET : e-90 1.25AAB	1
BP-02	1-190 MECH	B-02	30	40	3600	3.75	1.5	0.495	480/3/60	127	BELL&GOSSET : e-90 1.25AAB	1
HWP-01	1-190 MECH	B-01,B-02	30	21	3600	4.5	2	0.896	480/3/60	127	BELL&GOSSET : e-1535 1AAC	1
HWP-02	1-190 MECH	B-01,B-02	30	21	3600	4.5	2	0.896	480/3/60	127	BELL&GOSSET : e-1535 1AAC	1

REMARKS:

1. PROVIDE PUMPS WITH VARIABLE FREQUENCY DRIVE (VFD).

VENTURI AIR VALVE SCHEDULE

UNIT NO.	SERVES	QTY	MAX CFM	MIN CFM	INLET SIZE (IN)	MAX TOTAL UNIT AIR PD (IN WC)	MAX DISCHARGE SOUND POWER AT OCTAVE BAND (Db), RE 10-12W 2/ 125	3/ 250	4/ 500	5/ 1K	6/ 2K	7/ 4K	MANUFACTURER	MODEL	INTERLOCKED VALVES	REMARKS
STB-01	ISOLATION RM 1-306	1	400	200	8	0.6	57	52	50	42	40	30	TRIATEK	VVN8AIFAPHMU	ETB-01	1-7
STB-02	ISOLATION VESTIBULE 1-305	1	90	90	8	0.6	57	52	50	42	40	30	TRIATEK	VVN8AIFAPHMU	ETB-01	1-7
ETB-01	ISOLATION RM 1-306 / ISOLATION TOILET 1-306T	1	580	380	8	0.6	57	52	50	42	40	30	TRIATEK	VVN8ANFAPHMU	STB-01	1-7

REMARKS:

1. NO STRAIGHT DUCT REQUIRED BEFORE OR AFTER
2. DIGITAL LOW-SPEED ELECTIC CONTROL
3. EMERGENCY POWER
4. DIV. 23 RESPONSIBLE FOR ALL WIRING FROM TRANSFORMER CONTROL PANEL TO TERMINAL UNITS. REFERENCE DRAWINGS FOR CONTROL PANEL LOCATIONS.
5. PROVIDE FACTORY BACNET CONTROLS
6. SOUND POWER DATA PROVIDED AT 0.6 IN WC AT MAXIMUM FLOW
7. INCLUDE UVM CONFIGURATION AND START UP

VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE

TAG	LOCATION ROOM #	MAX. CFM	MIN CFM	DUCT SIZES INLET	BOX AIR P.D. INCH W.C.	TOTAL UNIT AIR P.D. INCH W.C.	OUTLET DUCT SIZE	EAT (F)	LAT (F)	MAX PD	MAX NC DISCH.	MAX NC RADI.	MANUFACTURER AND MODEL TITUS	REMARKS
RTU-1														
RVAV-1-01	1-304 QUIET ACTIVITY	145	80	6"	0.25	0.25	12x8	55	90	-	-	22	DECV3-06	1, 2, 3, 4, 5
RVAV-1-02	1-300 PATIENT HALLWAY	415	145	8"	0.25	0.25	12x10	55	90	-	20	23	DECV3-08	1, 2, 3, 4, 5
RVAV-1-03	1-304 QUIET ACTIVITY	120	80	6"	0.25	0.25	12x8	55	90	-	-	22	DECV3-06	1, 2, 3, 4, 5
RVAV-1-04	1-304 QUIET ACTIVITY	120	80	6"	0.25	0.25	12x8	55	90	-	-	22	DECV3-06	1, 2, 3, 4, 5
RVAV-1-05	1-300 PATIENT HALLWAY	705	145	8"	0.25	0.25	12x10	55	90	-	20	23	DECV3-08	1, 2, 3, 4, 5
RVAV-1-06	1-210 PATIENT HALLWAY	270	80	6"	0.25	0.25	12x8	55	90	-	-	22	DECV3-06	1, 2, 3, 4, 5
RVAV-1-07	1-300 PATIENT HALLWAY	300	0	6"	0.25	0.25	12x8	55	90	-	-	22	DECV3-06	1, 2, 3, 4, 5
RVAV-1-08	1-132 CHARTING	520	145	8"	0.25	0.25	12x10	55	-	-	20	23	DECV3-08	1, 2, 3, 4, 5
RVAV-1-09	1-132 CHARTING	190	80	6"	0.25	0.25	12x8	55	90	-	-	22	DECV3-06	1, 2, 3, 4, 5
RVAV-1-10	1-302 ACTIVITY AREA	250	80	6"	0.25	0.25	12x8	55	90	-	-	22	DECV3-06	1, 2, 3, 4, 5
RVAV-1-11	1-302 ACTIVITY AREA	275	80	6"	0.25	0.25	12x8	55	90	-	-	22	DECV3-06	1, 2, 3, 4, 5
RVAV-1-12	1-132 CHARTING	85	80	6"	0.25	0.25	12x8	55	90	-	-	22	DECV3-06	1, 2, 3, 4, 5
RTU-2														
RVAV-2-01	1-126 CONFERENCE	335	0	6"	0.25	0.25	12x8	55	-	-	-	22	DECV3-06	1, 2, 3, 4, 5
RVAV-2-02	1-130 STAFF CORRIDOR	565	145	8"	0.25	0.25	12x10	55	-	-	20	23	DECV3-08	1, 2, 3, 4, 5
RVAV-2-03	1-210 PATIENT HALLWAY	705	0	8"	0.25	0.25	12x10	55	90	-	20	23	DECV3-08	1, 2, 3, 4, 5
RVAV-2-04	1-211 DINING ROOM	525	0	8"	0.25	0.25	12x10	55	90	-	20	23	DECV3-08	1, 2, 3, 4, 5
RVAV-2-05	1-002 ADMIN CENTER	275	80	6"	0.25	0.25	12x8	55	90	-	-	22	DECV3-06	1, 2, 3, 4, 5
RVAV-2-06	1-011 KITCHEN	165	80	6"	0.25	0.25	12x8	55	-	-	-	22	DECV3-06	1, 2, 3, 4, 5
RVAV-2-09	1-102 GENERAL STORAGE	595	145	8"	0.25	0.25	12x10	55	90	-	20	23	DECV3-08	1, 2, 3, 4, 5
RVAV-2-10	1-120 STAFF CORRIDOR	395	80	6"	0.25	0.25	12x8	55	90	-	-	22	DECV3-06	1, 2, 3, 4, 5
RVAV-2-11	1-125 SHARED OFFICE	620	145	8"	0.25	0.25	12x10	55	90	-	20	23	DECV3-08	1, 2, 3, 4, 5
RVAV-2-12	1-120 STAFF CORRIDOR	390	80	6"	0.25	0.25	12x8	55	-	-	-	22	DECV3-06	1, 2, 3, 4, 5

2. PROVIDE DUCT DISCHARGE TRANSITION AS REQUIRED TO MATCH DUCT SIZE AS INDICATED ON PLANS.
3. MAINTAIN SERVICE CLEARANCE AT SIDES FOR CONTROL ACCESS, COORDINATE WITH LANDLORD.
4. PROVIDE NEW VAV BOXES FACTORY INSTALLED DDC CONTROLS.
5. INTERFACE NEW TERMINAL BOXES WITH EXISTING BASE BUILING'S...
6. PROVIDE VAV BOX WITH ELECTRIC HEATING COIL, NEMA 1 CONTROL PANEL ENCLOSURE, AND DISCONNETION...
7. INTERFACE TERMINAL BOX WITH EXISTING PERIMETER FIN-TUBE'S CONTROLS, SET FIN-TUBE HEATING AS THE FIRST STAGE O...

VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE

TAG	LOCATION ROOM #	MAX. CFM	MIN CFM	HEATING CFM	DUCT SIZES INLET	BOX AIR P.D. INCH W.C.	TOTAL UNIT AIR P.D. INCH W.C.	OUTLET DUCT SIZE	EAT (F)	LAT (F)	HOT WATER HEATING DATA EWT (F)	LWT (F)	CAP. MBH	CONTROL VALVE	MAX PD	MAX NC DISCH.	MAX NC RADI.	MANUFACTURER AND MODEL TITUS	REMARKS
RTU-1																			
VAV - 1-01	1-310 PATIENT HALLWAY	225	225	225	6"	0.25	0.25	12x8	55	90	180	150	8.5	2-WAY	.1"	-	22	DESV3-06	1, 2, 3, 4, 5, 6, 7
VAV - 1-02	1-310 PATIENT HALLWAY	495	495	495	8"	0.25	0.25	12x10	55	90	180	150	18.8	2-WAY	.1"	20	23	DESV3-08	1, 2, 3, 4, 5, 6, 7
VAV - 1-03	1-300 PATIENT HALLWAY	200	200	200	6"	0.25	0.25	12x8	55	90	180	150	7.6	2-WAY	.1"	-	22	DESV3-06	1, 2, 3, 4, 5, 6, 7
VAV - 1-04	1-304 QUIET ACTIVITY	200	200	200	6"	0.25	0.25	12x8	55	90	180	150	7.6	2-WAY	.1"	-	22	DESV3-06	1, 2, 3, 4, 5, 6, 7
VAV - 1-05	1-300 PATIENT HALLWAY	795	795	795	10"	0.25	0.25	14x12.5	55	90	180	150	30.2	2-WAY	.1"	22	25	DESV3-10	1, 2, 3, 4, 5, 6, 7
VAV - 1-06	1-300 PATIENT HALLWAY	460	460	460	8"	0.25	0.25	12x10	55	90	180	150	17.5	2-WAY	.1"	20	23	DESV3-08	1, 2, 3, 4, 5, 6, 7
VAV - 1-07	1-300 PATIENT HALLWAY	300	0	0	6"	0.25	0.25	12x8	55	90	180	150	0.0	2-WAY	.1"	-	22	DESV3-06	1, 2, 3, 4, 5, 6, 7
VAV - 1-08	1-132 CHARTING	590	590	590	8"	0.25	0.25	12x10	55	85	180	150	19.2	2-WAY	.1"	20	23	DESV3-08	1, 2, 3, 4, 5, 6, 7
VAV - 1-09	1-330 PATIENT HALLWAY	350	350	350	6"	0.25	0.25	12x8	55	90	180	150	13.3	2-WAY	.1"	-	22	DESV3-06	1, 2, 3, 4, 5, 6, 7
VAV - 1-10	1-330 PATIENT HALLWAY	400	400	400	6"	0.25	0.25	12x8	55	90	180	150	15.2	2-WAY	.1"	-	22	DESV3-06	1, 2, 3, 4, 5, 6, 7
VAV - 1-11	1-330 PATIENT HALLWAY	350	350	350	6"	0.25	0.25	12x8	55	90	180	150	13.3	2-WAY	.1"	-	22	DESV3-06	1, 2, 3, 4, 5, 6, 7
VAV - 1-12	1-330 PATIENT HALLWAY	160	160	160	6"	0.25	0.25	12x8	55	90	180	150	6.1	2-WAY	.1"	-	22	DESV3-06	1, 2, 3, 4, 5, 6, 7
		Total	4225																
RTU-2																			
VAV - 2-01	1-120 STAFF CORRIDOR	335	0	0	6"	0.25	0.25	12x8	55	85	180	150	0.0	2-WAY	.1"	-	22	DESV3-06	1, 2, 3, 4, 5, 6, 7
VAV - 2-02	1-210 PATIENT HALWAY	565	565	565	8"	0.25	0.25	12x10	55	85	180	150	1.2	18.4	2-WAY	.1"	20	23	DESV3-08	1, 2, 3, 4, 5, 6, 7
VAV - 2-03	1-216 GROUP ROOM	705	0	0	8"	0.25	0.25	12x10	55	90	180	150	0.0	0.0	2-WAY	.1"	20	23	DESV3-08	1, 2, 3, 4, 5, 6, 7
VAV - 2-04	1-211 DINING ROOM	525	0	0	8"	0.25	0.25	12x10	55	90	180	150	0.0	0.0	2-WAY	.1"	20	23	DESV3-08	1, 2, 3, 4, 5, 6, 7
VAV - 2-05	1-011 KITCHEN	275	275	275	6"	0.25	0.25	12x8	55	90	180	150	0.7	10.4	2-WAY	.1"	-	22	DESV3-06	1, 2, 3, 4, 5, 6, 7
VAV - 2-06	1-011 KITCHEN	315	230	230	6"	0.25	0.25	12x8	55	85	180	150	0.5	7.5	2-WAY	.1"	-	22	DESV3-06	1, 2, 3, 4, 5, 6, 7
VAV - 2-07	1-011 KITCHEN	430	430	430	8"	0.25	0.25	12x10	55	90	180	150	1.1	16.3	2-WAY	.1"	20	23	DESV3-08	1, 2, 3, 4, 5, 6, 7
VAV - 2-08	1-011 KITCHEN	1335	1335	1335	12"	0.25	0.25	16x15	55	90	180	150	3.4	50.7	2-WAY	.1"	20	23	DESV3-12	1, 2, 3, 4, 5, 6, 7
VAV - 2-09	1-102 GENERAL STORAGE	670	220	220	8"	0.25	0.25	12x10	55	90	180	150	0.6	8.4	2-WAY	.1"	20	23	DESV3-08	1, 2, 3, 4, 5, 6, 7
VAV - 2-10	1-100 STAFF CORRIDOR	885	885	885	10"	0.25	0.25	14x12.5	55	90	180	150	2.2	33.6	2-WAY	.1"	22	25	DESV3-10	1, 2, 3, 4, 5, 6, 7
VAV - 2-11	1-128 NURSE OFFICE	810	270	270	10"	0.25	0.25	14x12.5	55	90	180	150	0.7	10.3	2-WAY	.1"	22	25	DESV3-10	1, 2, 3, 4, 5, 6, 7
VAV - 2-12	1-120 STAFF CORRIDOR	590	590	590	8"	0.25	0.25	12x10	55	85	180	150	1.3	19.2	2-WAY	.1"	20	23	DESV3-08	1, 2, 3, 4, 5, 6, 7
		Total	4800																

2. PROVIDE DUCT DISCHARGE TRANSITION AS REQUIRED TO MATCH DUCT SIZE AS INDICATED ON PLANS.
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4. PROVIDE NEW VAV BOXES FACTORY INSTALLED DDC CONTROLS.
5. INTERFACE NEW TERMINAL BOXES WITH EXISTING BASE BUILING'S B.A.S.
6. PROVIDE VAV BOX WITH ELECTRIC HEATING COIL, NEMA 1 CONTROL PANEL ENCLOSURE, AND DISCONNETION...
7. INTERFACE TERMINAL BOX WITH EXISTING PERIMETER FIN-TUBE'S CONTROLS, SET FIN-TUBE HEATING AS THE FIRST STAGE OF...

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REHEAT COIL SCHEDULE

TAG	SERVES ROOM #	ASSOCIATED AIR VALVE	MAX HEATING CFM	MAX AIR P.D. INCH W.C.	ROWS	MAX FACE VELOCITY (FPM)	EAT (°F)	LAT (°F)	TOTAL CAP. (MBH)	GPM	EWT (°F)	LWT (°F)	MAX WPD (FT HD)	DUCT DIMENSION (LXH) (IN)	MANUFACTURER	MODEL	REMARKS
RHC-01	ISOLATION RM 1-306	STB-01	400	0.12	2	850	55	90	16.8	1.7	150	120	5	12X12	GREENHECK	HW58S02A08	1,2
RHC-02	ISOLATION VESTIBULE 1-305	STB-02	90	0.03	1	850	55	85	3.1	1.3	150	120	5	7.5X7.5	GREENHECK	HW58S01A09	1,2

REMARKS:

1. PROVIDE ACCESS DOOR UPSTREAM AND DOWNSTREAM OF REHEAT COIL.
2. PROVIDE TRANSITIONS FOR INLET/ OUTLET OF COIL TO DUCTWORK SIZE SHOWN ON PLAN.

AIR DEVICE SCHEDULE

TYPE	SERVICE	STYLE	FACE SIZE (IN)	MATERIAL	FINISH	NECK SIZE (IN)	AIR FLOW RANGE (CFM)	BASIS OF DESIGN MANUFACTURER / MODEL	REMARKS
1-4	SUPPLY	SURFACE-MOUNTED SQUARE PLAQUE	24x24	STEEL	SEE NOTE 3	6"Ø	0 - 150	TITUS : OMNI	1-4, 10
1-4	SUPPLY	SURFACE-MOUNTED SQUARE PLAQUE	24x24	STEEL	SEE NOTE 3	8"Ø	151 - 250	TITUS : OMNI	1-4, 10
1-4	SUPPLY	SURFACE-MOUNTED SQUARE PLAQUE	24x24	STEEL	SEE NOTE 3	10"Ø	251 - 400	TITUS : OMNI	1-4, 10
1-4	SUPPLY	SURFACE-MOUNTED SQUARE PLAQUE	24x24	STEEL	SEE NOTE 3	12"Ø	401 - 500	TITUS : OMNI	1-4, 10
1-4	SUPPLY	LAY-IN SQUARE PLAQUE	24x24	STEEL	SEE NOTE 3	6"Ø	0 - 150	TITUS : OMNI	1-4, 10
1-4	SUPPLY	LAY-IN SQUARE PLAQUE	24x24	STEEL	SEE NOTE 3	8"Ø	151 - 250	TITUS : OMNI	1-4, 10
1-4	SUPPLY	LAY-IN SQUARE PLAQUE	24x24	STEEL	SEE NOTE 3	10"Ø	251 - 400	TITUS : OMNI	1-4, 10
1-4	SUPPLY	LAY-IN SQUARE PLAQUE	24x24	STEEL	SEE NOTE 3	12"Ø	401 - 500	TITUS : OMNI	1-4, 10
1-4	SUPPLY	LAY-IN SQUARE PLAQUE	24x24	STEEL	SEE NOTE 3	14"Ø	501 - 700	TITUS : OMNI	1-4, 10
6	SUPPLY	SURFACE-MOUNTED PERFORATED	11.4X11.4	STAINLESS STEEL	SEE NOTE 3	-	0 - 150	ANEMOSTAT : SSV22 - C3	1-4, 7, 9
6	SUPPLY	SURFACE-MOUNTED PERFORATED	19.4X19.4	STAINLESS STEEL	SEE NOTE 3	-	151 - 400	ANEMOSTAT : SSV22 - G7	1-4, 7, 9
7	SUPPLY	SURFACE-MOUNTED LINEAR SLOT	4' LENGTH, 2 SLOTS 1"	STEEL	SEE NOTE 3	10"Ø	0 - 250	TITUS : FL-20-HT	1-5, 10, 13-14
7A	SUPPLY	LINEAR SLOT	4' LENGTH, 3 SLOTS 1"	STEEL	SEE NOTE 3	10"Ø	0-350	TITUS : ML-39	1-6, 10
5	RETURN	SURFACE-MOUNTED PERFORATED	24x24	STEEL	SEE NOTE 3	6"Ø	0 - 150	TITUS : PAR	1-4, 10
5	RETURN	SURFACE-MOUNTED PERFORATED	24x24	STEEL	SEE NOTE 3	8"Ø	151 - 250	TITUS : PAR	1-4, 10
5	RETURN	SURFACE-MOUNTED PERFORATED	24x24	STEEL	SEE NOTE 3	10"Ø	251 - 400	TITUS : PAR	1-4, 10
5	RETURN	SURFACE-MOUNTED PERFORATED	24x24	STEEL	SEE NOTE 3	12"Ø	401 - 500	TITUS : PAR	1-4, 10
5	RETURN	SURFACE-MOUNTED PERFORATED	24x24	STEEL	SEE NOTE 3	14"Ø	501 - 700	TITUS : PAR	1-4, 10
5	RETURN	SURFACE-MOUNTED PERFORATED	24x24	STEEL	SEE NOTE 3	16"Ø	701 - 950	TITUS : PAR	1-4, 10
5	RETURN	LAY-IN PERFORATED	24x24	STEEL	SEE NOTE 3	6"Ø	0 - 150	TITUS : PAR	1-4, 8, 10
5	RETURN	LAY-IN PERFORATED	24x24	STEEL	SEE NOTE 3	8"Ø	151 - 250	TITUS : PAR	1-4, 8, 10
5	RETURN	LAY-IN PERFORATED	24x24	STEEL	SEE NOTE 3	10"Ø	251 - 400	TITUS : PAR	1-4, 8, 10
5	RETURN	LAY-IN PERFORATED	24x24	STEEL	SEE NOTE 3	12"Ø	401 - 500	TITUS : PAR	1-4, 8, 10
5	RETURN	LAY-IN PERFORATED	24x24	STEEL	SEE NOTE 3	14"Ø	501 - 700	TITUS : PAR	1-4, 8, 10
5	RETURN	LAY-IN PERFORATED	24x24	STEEL	SEE NOTE 3	16"Ø	701 - 1000	TITUS : PAR	1-4, 8, 10
8	RETURN	SURFACE-MOUNTED PERFORATED	11.4X11.4	STAINLESS STEEL	SEE NOTE 3	-	0 - 100	ANEMOSTAT : SSV22 - C3	1-4, 7, 9
8	RETURN	SURFACE-MOUNTED PERFORATED	19.4X19.4	STAINLESS STEEL	SEE NOTE 3	-	101 - 400	ANEMOSTAT : SSV22 - G7	1-4, 7, 9
5A	EXHAUST/RELIEF	SURFACE - MOUNTED PERFORATED	12X12	STEEL	SEE NOTE 3	6"Ø	0 - 150	TITUS : PAR	1-4, 10
5A	EXHAUST/RELIEF	SURFACE - MOUNTED PERFORATED	12X12	STEEL	SEE NOTE 3	8"Ø	151 - 250	TITUS : PAR	1-4, 10
5A	EXHAUST/RELIEF	SURFACE - MOUNTED PERFORATED	12X12	STEEL	SEE NOTE 3	10"Ø	251 - 400	TITUS : PAR	1-4, 10
5A	EXHAUST/RELIEF	LAY-IN PERFORATED	24x24	STEEL	SEE NOTE 3	6"Ø	0 - 150	TITUS : PAR	1-4, 10
5A	EXHAUST/RELIEF	LAY-IN PERFORATED	24x24	STEEL	SEE NOTE 3	8"Ø	151 - 250	TITUS : PAR	1-4, 10
5A	EXHAUST/RELIEF	LAY-IN PERFORATED	24x24	STEEL	SEE NOTE 3	10"Ø	251 - 400	TITUS : PAR	1-4, 10
5A	EXHAUST/RELIEF	LAY-IN PERFORATED	24x24	STEEL	SEE NOTE 3	12"Ø	401 - 500	TITUS : PAR	1-4, 10
5A	EXHAUST/RELIEF	LAY-IN PERFORATED	24x24	STEEL	SEE NOTE 3	14"Ø	501 - 700	TITUS : PAR	1-4, 10
5A	EXHAUST/RELIEF	SURFACE-MOUNTED PERFORATED	24x24	STEEL	SEE NOTE 3	6"Ø	0 - 150	TITUS : PAR	1-4, 10
5A	EXHAUST/RELIEF	SURFACE-MOUNTED PERFORATED	24x24	STEEL	SEE NOTE 3	8"Ø	151 - 250	TITUS : PAR	1-4, 10
5A	EXHAUST/RELIEF	SURFACE-MOUNTED PERFORATED	24x24	STEEL	SEE NOTE 3	10"Ø	251 - 400	TITUS : PAR	1-4, 10
5A	EXHAUST/RELIEF	SURFACE-MOUNTED PERFORATED	24x24	STEEL	SEE NOTE 3	12"Ø	401 - 500	TITUS : PAR	1-4, 10
5A	EXHAUST/RELIEF	SURFACE-MOUNTED PERFORATED	24x24	STEEL	SEE NOTE 3	14"Ø	501 - 700	TITUS : PAR	1-4, 10
8	EXHAUST/RELIEF	SURFACE-MOUNTED PERFORATED	19.4X19.4	STAINLESS STEEL	SEE NOTE 3	-	101 - 400	ANEMOSTAT : SSV22 - G7	1-4, 7, 9
8A	EXHAUST/RELIEF	SURFACE-MOUNTED PERFORATED	11.4X11.4	STAINLESS STEEL	SEE NOTE 3	-	0 - 100	ANEMOSTAT : SSV22 - C3	1-4, 7, 9
9	RETURN	LINEAR SLOT DIFFUSER	4' LENGTH, 3 SLOTS 1"	STEEL	SEE NOTE 3	10"Ø	0-380	TITUS - MLR 39	1-6, 10-12
9A	EXHAUST/RELIEF	LINEAR SLOT DIFFUSER	4' LENGTH, 3 SLOTS 1"	STEEL	SEE NOTE 3	10"Ø	0-380	TITUS - MLR 39	1-6, 10-12

NOTES:

1. SEE MECHANICAL PLANS FOR DEVICES AIRFLOW VALUES AND SIZES, UNLESS OTHERWISE NOTED ON SCHEDULES.
2. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR DEVICE'S INSTALLATION LOCATIONS AND REQUIRED BORDER TYPES TO MATCH DEVICE'S INSTALLATION APPLICATION.
3. COORDINATE AIR DEVICES FINAL COLOR/FINISH WITH ARCHITECTURAL CEILING PLANS.
4. AIR DEVICE'S FINAL FINISH SHALL BE SELECTED BY ARCHITECT.
5. BLANK OFF SECTIONS OF LINEAR SLOT DIFFUSERS FOR CONTINUOUS SLOT DIFFUSER APPEARANCE WHEN INDICATED ON PLAN.
6. PROVIDE SLOT DIFFUSERS WITH PLENUM - MPI-39.
7. SEE DETAIL #13/M0701 FOR SECURITY GRILLE INSTALLATION.
8. PROVIDE RETURN AIR GRILLES WITH LIGHT SHIELDS EQUIVALENT TO RAYAMON'S LIGHT SHIELD WHERE APPLICABLE.
9. REMOTE BATTERY POWERED VOLUME DAMPER SHALL BE PROVIDED. SEE DETAIL #1/M0703 FOR MORE INFORMATION.
10. REMOTE VOLUME DAMPER SHALL BE PROVIDED. SEE DETAIL #6/M0701 FOR MORE INFORMATION.
11. PROVIDE WITH BORDER TYPE 2A OR 2B
12. LINEAR DIFFUSER IS TO BE INDEPENDENTLY SUPPORTED AND BE INSTALLED WITHIN THE DECORATIVE WOOD CEILING PER THE CEILING MANUFACTURER'S RECOMMENDATIONS.
13. PROVIDE FLOWBAR DIFFUSERS WITH PLENUM - FPBI-20.
14. PROVIDE WITH BORDER TYPE 77.

SOUND ATTENUATOR SCHEDULE

TAG	SYSTEM	QTY.	TOTAL FACE DIMENSION WxH (IN)	LENGTH (IN)	TOTAL CFM	MAX FACE VELOCITY (FPM)	MAX AIR PD (IN WG)	DYNAMIC INSERTION LOSS OCTAVE BAND / HZ							MANUFACTURER	MODEL	REMARKS
								63	125	250	500	1K	2K	4K			
SA-1-S	RTU-1 SA	1	28x20	42	5,025	1,286	0.09	7	110	13	16	17	17	16	PRICE	ERM42/8A	1
SA-1-R	RTU-1 RA	1	24x18	38	3,345	1,133	0.08	8	12	16	19	22	20	18	PRICE	ERM36/6B	1
SA-2-S	RTU-2 SA	1	32x24	46	7,415	1,425	0.12	7	10	12	15	14	15	14	PRICE	ERM46/UA	1
SA-2-R	RTU-2 RA	1	32x24	46	4,620	1,656	0.12	7	10	12	15	14	15	14	PRICE	ERM46/UA	1

REMARKS:

1. GALVANIZED, CL1 (22 GA), 22 GA PERF LINER, FIBERGLASS, INLET: 2" SLIP, OUTLET: 2" SLIP

FAN SCHEDULE

TAG	LOCATION	SERVICE	AIRFLOW (CFM)	E.S.P.	FAN DATA			MOTOR				MOTOR STARTER BY		WEIGHT	DIMENSIONS INCHES	MAUNFACTURER / MODEL	REMARKS
				IN WC	FAN TYPE	RPM	DRIVE	HP	VOLT	PH	HZ	M.C.	E.C.	(LBS)	(LxWxH)		
EF-1	ROOF	TOILETS	320	0.5	UPBLAST	1463	DIRECT	1/3	115	1	60	X		61	22x22x17	COOK/ACRU-D	1
EF-2	ROOF	TOILETS	535	0.45	UPBLAST	1237	DIRECT	1/3	115	1	60	X		106	35x35x27	COOK/ACRUD-XP	1
EF-3	ROOF	SOILED	175	0.35	UPBLAST	1302	DIRECT	1/8	115	1	60	X		60	22x22x17	COOK/ACRU-D	1
EF-4	ROOF	BREAK ROOM	315	0.35	UPBLAST	1463	DIRECT	1/8	115	1	60	X		61	22x22x17	COOK/ACRU-D	1
EF-5	ROOF	EXHAUST	365	0.35	UPBLAST	1463	DIRECT	1/8	115	1	60	X		61	22x22x17	COOK/ACRU-D	1
EF-6	ROOF	EXHAUST	85	0.35	UPBLAST	1550	DIRECT	1/8	115	1	60	X		60	22x22x17	COOK/ACRU-D	1
EF-7	ROOF	LOBBY	1475	0.3	UPBLAST	1403	BELT	3/4	115	1	60		X	155	39.44x39.44x32.13	COOK/ACRU-XP	1
EF-8	ROOF	KITCHEN	430	0.3	UPBLAST	959	DIRECT	1/3	115	1	60	X		99	35x35x28	COOK/ACRUD-HP	1
EF-9	ROOF	ISOLATION	580	0.4	HIGH PLUME	2845	BELT	3	460	3	60		X	1414	40.38x28x100.19	COOK/QMXVP-QMXHPVP	1
EF-10	ROOF	LAUNDRY, TOILET	195	0.35	UPBLAST	1302	DIRECT	1/8	115	1	60	X		60	22x22x17	COOK/ACRU-D	1
FBF-1	1-301 TEAM STATION	ISOLATION ROOM	400	0.750	INLINE	1478	BELT	1/2	460	3	60		X	120	22x16x17-7/16	COOK/SQN-B	1
RF-1	ROOF	RTU-1	3345	1.35	CLOCKWISE	2134	BELT	2	460	3	60		X	371	29.63x32.38x36.94	COOK/CPS ARRANGE.10 CL1	1
RF-2	ROOF	RTU-2	4620	1.55	CLOCKWISE	1280	BELT	3	460	3	60		X	533	36.38x58.88x46.44	COOK/CPS ARRANGE.10 CL1	1

REMARKS :

1. PROVIDE FAN WITH MOTOR STARTER AND DISCONNECT SWITCH

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Exp. 3/31/22
REGISTERED PROFESSIONAL ENGINEER
KEITH RICHARD HUNSICKER
CIVIL
STATE OF CALIFORNIA

Drawing Title:

SCHEDULES

Issue Date: 08/06/20

Project No.: 006240.00 Checked by: Checker

M0502

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VENTILATION SCHEDULE

ROOM NUMBER	ROOM NAME	ROOM PURPOSE (BASIS OF DESIGN OSHPD)	ROOM PUPOSE (BASIS OF DESIGN ASHRAE 62.1)	ROOM AREA (FT2)	CEILING HEIGHT (FT)	2019 CALIFORNIA MECHANICAL CODE (OSHPD) REQ.										2019 CALIFORNIA MECHANICAL CODE (ASHRAE 62.1) REQ.			AIRFLOW PROVIDED				SERVED BY FAN SYSTEM			REMARKS
						PRESSURE RELATIONSHIP TO ADJACENT AREAS	MINIMUM OA ACH	MINIMUM TOTAL ACH	ALL ROOM AIR EXHAUSTED DIRECTLY TO OUTDOORS	AIR RECIRCULATED BY MEANS OF ROOM UNITS	% RELATIVE HUMIDITY	TEMPERATURE DEGREES FAHRENHEIT	OA CFM	SUPPLY AIR CFM	EXHAUST AIR CFM	OCCUPANCY # PEOPLE	ZONE OA CFM	EXHAUST CFM	S/A CFM	O.A.I. CFM	R/A CFM	EXHAUST CFM	SUPPLY	RETURN	EXHAUST	
1-001	LOBBY	WAITING AREA PRIMARY CARE CLINIC	MAIN ENTRY LOBBIES	331	11	NEGATIVE	2	10	YES	NR	NR	NR	125	607	607	12	85	NR	630	125	-	700	RTU-2	-	EF-7	70 CFM TRANSFERRED IN
1-002	ADMIN CENTER	OFFICE SPACE	OFFICE SPACE	110	10	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	2	20	NR	160	20	105	-	RTU-2	RTU-2	-	55 CFM TRANSFERRED OUT
1-003	SECURITY	OFFICE SPACE	OFFICE SPACE	79	10	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1	15	NR	155	15	60	-	RTU-2	RTU-2	-	95 CFM TRANSFERRED OUT
1-004	WAITING	WAITING AREA PRIMARY CARE CLINIC	MAIN ENTRY LOBBIES	384	11	NEGATIVE	2	10	YES	NR	NR	NR	145	704	704	12	90	NR	705	145	-	775	RTU-2	-	EF-7	70 CFM TRANSFERRED IN
1-005	TOILET	TOILET ROOM	TOILETS-PUBLIC	56	9	NEGATIVE	NR	10	YES	NO	NR	NR	NR	84	84	0	NR	50	0	0	-	85	RTU-2	-	EF-6	DOOR UNDERCUT - 85 CFM IN
1-006	ADMIN OFFICE	OFFICE SPACE	OFFICE SPACE	113	11	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	3	25	NR	275	25	275	-	RTU-2	RTU-2	-	-
1-010	ENTRY COORIDOR	PATIENT CORRIDOR	CORRIDORS	88	10	NR	NR	2	NR	NR	NR	NR	NR	29	NR	0	10	NR	125	10	50	-	RTU-2	RTU-2	-	75 CFM TRANSFERRED OUT
1-011	KITCHEN	FOOD PREPARATION CENTER	KITCHEN	234	9	NR	2	10	NR	NO	NR	72 - 80	75	351	NR	2	55	70	430	75	-	350	RTU-2	-	EF-11	80 CFM TRANSFERRED OUT
1-012	CART & WASTE	FOOD PREPARATION CENTER	JANITOR CLOSETS, TRASH ROOMS, RECYCLING	47	9	NR	2	10	NR	NO	NR	72 - 80	15	71	NR	0	NR	47	0	15	-	80	RTU-2	-	EF-11	80 CFM TRANSFERRED IN
1-100	STAFF CORRIDOR	CORRIDORS	CORRIDORS	286	9	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0	25	NR	885	25	395	-	RTU-2	RTU-2	-	490 CFM TRANSFERRED OUT
1-101	EQUIP SUPPLY STORAGE	STORAGE ROOMS	STORAGE ROOMS	121	9	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0	20	NR	185	20	185	-	RTU-2	RTU-2	-	-
1-102	GENERAL STORAGE	STORAGE ROOMS	STORAGE ROOMS	205	9	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0	35	NR	310	35	310	-	RTU-2	RTU-2	-	-
1-103	WASTE	SOILED WORKROOM OR SOILED HOLDING	JANITOR CLOSETS, TRASH ROOMS, RECYCLING	85	9	NEGATIVE	2	10	YES	NO	NR	NR	30	128	128	0	NR	85	0	30	-	130	RTU-2	-	EF-5	DOOR UNDERCUT - 130 CFM IN
1-105	STAFF TOILET	TOILET ROOM	TOILETS-PUBLIC	85	9	NEGATIVE	2	10	YES	NO	NR	NR	30	128	128	0	NR	50	0	30	-	130	RTU-2	-	EF-5	DOOR UNDERCUT - 130 CFM IN
1-106	STAFF TOILET	TOILET ROOM	TOILETS-PUBLIC	82	9	NEGATIVE	NR	10	YES	NO	NR	NR	NR	123	123	0	NR	50	0	0	-	125	RTU-2	-	EF-4	DOOR UNDERCUT - 125 CFM IN
1-107	HSKP	JANITOR'S CLOSET	JANITOR CLOSETS, TRASH ROOMS, RECYCLING	68	9	NEGATIVE	NR	10	YES	NO	NR	NR	NR	102	102	0	NR	68	0	0	-	105	RTU-2	-	EF-5	DOOR UNDERCUT - 105 CFM IN
1-120	STAFF CORRIDOR	CORRIDORS	CORRIDORS	289	9	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0	25	NR	210	25	90	-	RTU-2	RTU-2	-	125 CFM TRANSFERRED OUT, 5 CFM IN
1-123	STAFF BREAK	BREAKROOMS	BREAK ROOMS	183	9.5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	7	50	NR	190	50	-	190	RTU-2	RTU-2	EF-4	-
1-124	PATIENT BELONGINGS	STORAGE ROOMS	STORAGE ROOMS	258	9	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0	40	NR	250	40	250	-	RTU-2	RTU-2	-	-
1-125	SHARED OFFICE	OFFICE SPACE	OFFICE SPACE	142	9.5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	4	35	NR	220	35	220	-	RTU-2	RTU-2	-	-
1-126	CONFERENCE	CONFERENCE/ MEETING	CONFERENCE/ MEETING	209	9.5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	10	70	NR	335	70	335	-	RTU-2	RTU-2	-	-
1-127	SHARED OFFICE	OFFICE SPACE	OFFICE SPACE	147	9.5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	4	35	NR	225	35	225	-	RTU-2	RTU-2	-	-
1-128	NURSE OFFICE	NURSE STATION	OFFICE SPACE	103	9.5	NR	2	2	NR	NR	NR	70 - 75	35	33	NR	3	25	NR	175	35	175	-	RTU-2	RTU-2	-	-
1-130	STAFF CORRIDOR	CORRIDORS	CORRIDORS	154	9	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0	15	NR	50	15	50	-	RTU-2	RTU-2	-	-
1-131	SOILED	SOILED WORKROOM OR SOILED HOLDING	SOILED LAUNDRY STORAGE ROOMS	81	9	NEGATIVE	2	10	YES	NO	NR	NR	25	122	122	0	NR	81	75	25	-	125	RTU-2	-	EF-3	DOOR UNDERCUT - 50 CFM IN
1-132	CHARTING	NURSE STATION	OFFICE SPACE	232	9	NR	2	2	NR	NR	NR	70 - 75	70	70	NR	8	60	NR	380	70	330	-	RTU-1	RTU-1	-	50 CFM TRANSFERRED OUT
1-132A	PRINT	OFFICE SPACE	COPY/PRINTING ROOM	19	9	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	8	NR	10	0	0	-	50	RTU-1	RTU-1	EF-3	50 CFM TRANSFERRED IN
1-133	CLEAN	CLEAN WORKROOM OR CLEAN HOLDING	NO REQUIREMENT	84	9	POSITIVE	2	4	NR	NR	NR	NR	30	50	NR	0	NR	NR	55	30	50	-	RTU-2	RTU-2	-	DOOR UNDERCUT - 5 CFM OUT
1-134	MED ROOM	MEDICATION ROOM	PHARMACY	123	9	NR	2	4	NR	NR	MAX 60	70-75	40	74	NR	2	40	NR	115	40	115	-	RTU-2	RTU-2	-	-
1-200	SALLYPORT	PATIENT CORRIDOR	CORRIDORS	56	9	NR	NR	2	NR	NR	NR	NR	NR	17	NR	0	5	NR	50	5	50	-	RTU-2	RTU-2	-	-
1-210	PATIENT CORRIDOR	PATIENT CORRIDOR	CORRIDORS	450	10	NR	NR	2	NR	NR	NR	NR	NR	150	NR	0	35	NR	260	35	160	-	RTU-1	RTU-1	-	100 CFM TRANSFERRED OUT
1-211	DINING ROOM	RESIDENT GATHERING/ACTIVITY/DINING	KITCHEN	427	11	NR	4	4	NR	NR	NR	70 - 75	315	313	NR	16	185	NR	525	315	525	-	RTU-2	RTU-2	-	-
1-213	CONSULT/ASSESSMENT	EXAMINATION ROOM	PSYCHIATRIC CONSULTATION ROOM	102	9	NR	2	6	NR	NR	max 60	70 - 75	35	92	NR	2	90	NR	95	90	95	-	RTU-2	RTU-2	-	-
1-214	CONSULT ROOM	EXAMINATION ROOM	PSYCHIATRIC CONSULTATION ROOM	101	9	NR	2	6	NR	NR	max 60	70 - 75	35	91	NR	2	90	NR	95	90	95	-	RTU-2	RTU-2	-	-
1-215	VISIT/CONSULT	EXAMINATION ROOM	PSYCHIATRIC CONSULTATION ROOM	100	9	NR	2	6	NR	NR	max 60	70 - 75	30	90	NR	3	90	NR	95	90	95	-	RTU-2	RTU-2	-	-
1-216	GROUP ROOM	RESIDENT GATHERING/ACTIVITY/DINING	PSYCHIATRIC GROUP ROOM	348	11	NR	4	4	NR	NR	NR	70 - 75	260	255	NR	18	120	NR	755	260	755	-	RTU-2	RTU-2	-	-
1-217	EXAM ROOM	EXAMINATION ROOM	PSYCHIATRIC EXAMINATION ROOM	123	9	NR	2	6	NR	NR	max 60	70 - 75	40	111	NR	3	25	NR	115	40	115	-	RTU-2	RTU-2	-	-
1-218	PATIENT TOILET	TOILET ROOM	TOILETS-PUBLIC	50	9	NEGATIVE	NR	10	YES	NO	NR	NR	NR	75	75	0	NR	50	0	0	-	75	RTU-1	-	EF-10	DOOR UNDERCUT - 75 CFM IN
1-219	LAUNDRY	LAUNDRY, GENERAL	NO REQUIREMENT	76	9	NEGATIVE	2	10	YES	NO	NR	NR	25	114	114	1	NR	NR	95	25	-	120	RTU-1	-	EF-10	DOOR UNDERCUT - 25 CFM IN
1-220	QUIET ROOM	SECLUSION ROOM	PSYCHIATRIC SECLUSION ROOM	110	9	NR	2	6	NR	NR	NR	NR	35	99	NR	2	30	NR	110	35	110	-	RTU-1	RTU-1	-	-
1-300	PATIENT HALLWAY	PATIENT CORRIDOR	CORRIDORS	459	10	NR	NR	2	NR	NR	NR	NR	NR	153	NR	1	35	NR	255	35	165	-	RTU-1	RTU-1	-	90 CFM TRANSFFERED OUT
1-301	TEAM STATION	NURSE STATION	CONFERENCE/ MEETING	190	10	NR	2	2	NR	NR	NR	70 - 75	65	63	NR	4	35	NR	335	65	335	-	RTU-1	RTU-1	-	-
1-302	ACTIVITY AREA	RESIDENT GATHERING/ACTIVITY/DINING	DAY ROOM	355	10	NR	4	4	NR	NR	NR	70 - 75	240	237	NR	10	80	NR	300	240	300	-	RTU-1	RTU-1	-	-
1-304	QUIET ACTIVITY	RESIDENT GATHERING/ACTIVITY/DINING	DAY ROOM	213	10	NR	4	4	NR	NR	NR	70 - 75	145	142	NR	7	55	NR	205	145	205	-	RTU-1	RTU-1	-	-
1-305	ISOLATION VESTIBULE	AIRBORN INFECTION ISOLATION ANTE ROOM	SOILED LAUNDRY STORAGE ROOMS	54	9	NR	NR	10	YES	NO	NR	NR	NR	81	81	0	NR	54	90	0	-	-	RTU-1	-	-	DOOR UNDERCUT - 90 CFM IN
1-306	ISOLATION ROOM	AIRBORN INFECTION ISOLATION ROOM	SOILED LAUNDRY STORAGE ROOMS	183	9	NEGATIVE	2	12	YES	NO	max 60	70 - 75	55	329	329	2	NR	183	400	55	-	490	RTU-1	-	EF-9	90 CFM TRANSFERRED IN
1-306T	ISOLATION TOILET	TOILET ROOM	TOILETS-PUBLIC	58	9	NEGATIVE	NR	10	YES	NO	NR	NR	NR	87	87	0	NR	50	0	0	-	90	RTU-1	-	EF-9	DOOR UNDERCUT - 90 CFM IN
1-310	PATIENT HALLWAY	PATIENT CORRIDOR	CORRIDORS	251	9.5	NR	NR	2	NR	NR	NR	NR	NR	79	NR	0	20	NR	275	20	275	-	RTU-1	RTU-1	-	-
1-311	PRIVATE ROOM	PATIENT ROOM	BEDROOM/LIVING ROOM	190	9.5	NR	2	4	NR	NR	max 60	70 - 75	65	120	NR	2	25	NR	200	65	120	-	RTU-1	RTU-1	-	80 CFM TRANSFERRED OUT
1-311T	TOILET	TOILET ROOM	TOILETS-PUBLIC	48	9.5	NEGATIVE	NR	10	YES	NO	NR	NR	NR	76	76	0	NR	50	0	0	-	80	RTU-1	-	EF-1	DOOR UNDERCUT - 80 CFM IN
1-312	SEMI-PRIVATE ROOM	PATIENT ROOM	BEDROOM/LIVING ROOM	132	9.5	NR	2	4	NR	NR	max 60	70 - 75	45	84	NR	2	20	NR	200	45	120	-	RTU-1	RTU-1	-	80 CFM TRANSFERRED OUT
1-312T	TOILET	TOILET ROOM	TOILETS-PUBLIC	48	9.5	NEGATIVE	NR	10	YES	NO	NR	NR	NR	76	76	0	NR	50	0	0	-	80	RTU-1	-	EF-1	DOOR UNDERCUT - 80 CFM IN
1-313	SEMI-PRIVATE ROOM	PATIENT ROOM	BEDROOM/LIVING ROOM	190	9.5	NR	2	4	NR	NR	max 60	70 - 75	65	120	NR	2	25	NR	225	65	145	-	RTU-1	RTU-1	-	80 CFM TRANSFERRED OUT
1-313T	TOILET	TOILET ROOM	TOILETS-PUBLIC	48	9.5	NEGATIVE	NR	10	YES	NO	NR	NR	NR	76	76	0	NR	50	0	0	-	80	RTU-1	-	EF-1	DOOR UNDERCUT - 80 CFM IN
1-314	SEMI-PRIVATE ROOM	PATIENT ROOM	BEDROOM/LIVING ROOM	190	9.5	NR	2	4	NR	NR	max 60	70 - 75	65	120	NR	2	25	NR	220	65	140	-	RTU-1	RTU-1	-	80 CFM TRANSFERRED OUT
1-314T	TOILET	TOILET ROOM	TOILETS-PUBLIC	48	9.5	NEGATIVE	NR	10	YES	NO	NR	NR	NR	76	76	0	NR	50	0	0	-	80	RTU-1	-	EF-1	DOOR UNDERCUT - 80 CFM IN
1-330	PATIENT HALLWAY	PATIENT CORRIDOR	CORRIDORS	358	9.5	NR	NR	2	NR	NR	NR	NR	NR	113	NR	0	30	NR	125	30	125	-	RTU-1	RTU-1	-	-
1-331	SECLUSION VESTIBULE	PATIENT CORRIDOR	CORRIDORS	77	9	NR	NR	2	NR	NR	NR	NR	NR	23	NR	0	10	NR	120	10	50	-	RTU-1	RTU-1	-	70 TRANSFERRED OUT
1-331T	SECLUSION TOILET	TOILET ROOM	TOILETS-PUBLIC	46	9	NEGATIVE	NR	10	YES	NO	NR	NR	NR	69	69	0	NR	50	0	0	-	70	RTU-1	-	EF-2	DOOR UNDERCUT - 70 CFM IN
1-332	SECLUSION ROOM	SECLUSION ROOM	PSYCHIATRIC SECLUSION ROOM	97	9	NR	2	6	NR	NR	NR	NR	30	87	NR	2	30	NR	90	30	90	-	RTU-1	RTU-1	-	-
1-333	PRIVATE ROOM	PATIENT ROOM	BEDROOM/LIVING ROOM	125	9.5	NR	2	4	NR	NR	max 60	70 - 75	40	79	NR	2	20	NR	175	40	100	-	RTU-1	RTU-1	-	75 TRANSFERRED OUT
1-333T	TOILET	TOILET ROOM	TOILETS-PUBLIC	48	9	NEGATIVE	NR	10	YES	NO	NR	NR	NR	72	72	0	NR	50	0	0	-	75	RTU-1	-	EF-2	DOOR UNDERCUT - 75 CFM IN
1-334	ACCESSIBLE PRIVATE ROOM	PATIENT ROOM	BEDROOM/LIVING ROOM	189	9.5	NR	2	4	NR	NR	max 60	70 - 75	60	120	NR	2	25	NR	195	60	105	-	RTU-1	RTU-1	-	90 TRANSFERRED OUT
1-334T	ACCESSIBLETOILET	TOILET ROOM	TOILETS-PUBLIC	49	9	NEGATIVE	NR	10	YES	NO	NR	NR	NR	74	74	0	NR	50	0	0	-	90	RTU-1	-	EF-2	DOOR UNDERCUT - 90 CFM IN
1-335	SEMI-PRIVATE ROOM	PATIENT ROOM	BEDROOM/LIVING ROOM	190	9.5	NR	2	4	NR	NR	max 60	70 - 75	65	120	NR	2	25	NR	225	65	150	-	RTU-1	RTU-1	-	75 TRANSFERRED OUT
1-335T	TOILET	TOILET ROOM	TOILETS-PUBLIC	48	9	NEGATIVE	NR	10	YES	NO	NR	NR	NR	72	72	0	NR	50	0	0	-	75	RTU-1	-	EF-2	DOOR UNDERCUT - 75 CFM IN
1-336	PRIVATE ROOM	PATIENT ROOM	BEDROOM/LIVING ROOM	133	9.5	NR	2	4	NR	NR	max 60	70 - 75	45	84	NR	2	20	NR	160	45	85	-	RTU-1	RTU-1	-	75 TRANSFERRED OUT
1-336T	TOILET	TOILET ROOM	TOILETS-PUBLIC	48	9	NEGATIVE	NR	10	YES	NO	NR	NR	NR	72	72	0	NR	50	0	0	-	75	RTU-1	-	EF-2	DOOR UNDERCUT - 75 CFM IN
1-337	SEMI-PRIVATE ROOM	PATIENT ROOM	BEDROOM/LIVING ROOM	189	9.5	NR	2	4	NR	NR	max 60	70 - 75	60	120	NR	2	25	NR	225	60	150	-	RTU-1	RTU-1	-	75 TRANSFERRED OUT
1-337T	TOILET	TOILET ROOM	TOILETS-PUBLIC	48	9	NEGATIVE	NR	10	YES	NO	NR	NR	NR	72	72	0	NR	50	0	0	-	75	RTU-1	-	EF-2	DOOR UNDERCUT - 75 CFM IN
1-338	PRIVATE ROOM	PATIENT ROOM	BEDROOM/LIVING ROOM	132	9.5	NR	2	4	NR	NR	max 60	70 - 75	45	84	NR	2	20	NR	160	45	85	-	RTU-1	RTU-1	-	75 TRANSFERRED OUT
1-338T	TOILET	TOILET ROOM	TOILETS-PUBLIC	48	9	NEGATIVE	NR	10	YES	NO	NR	NR	NR	72	72	0	NR	50	0	0	-	75	RTU-1	-	EF-2	DOOR UNDERCUT - 75 CFM IN

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ISSUE FOR PLAN REVIEW BACKCHECK	21 JAN 2022
ISSUE FOR PLAN REVIEW	27 OCT 2021
ISSUE FOR PLANNING	15 DEC 2020
ISSUE FOR GRADING PERMIT	03 DEC 2020

Rev.	Description	Date
	AGENCY APPROVAL	

ARCHITECT SEAL

CONSULTANT SEAL



Drawing Title:

SCHEDULES

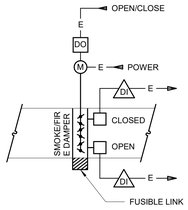
Issue Date: 11/13/20

Project No.: 006240.00 Checked by: Checker

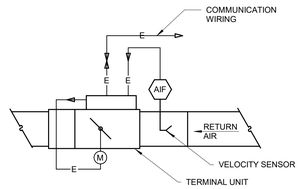
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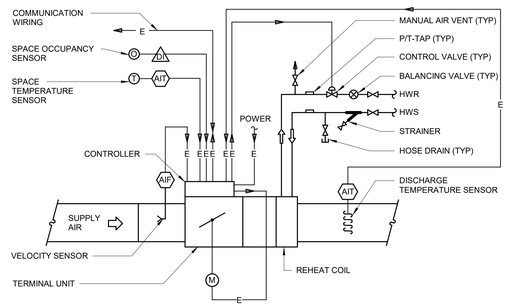
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3 DUCT MOUNTED SMOKE FIRE DAMPER





ISOLATION EXHAUST FAN SEQUENCE OF OPERATION

A. GENERAL:
1. CONTROL ELECTRONICALLY WITH DEDICATED STAND-ALONE HVAC NODE (HN).
2. THE SYSTEM SHALL OPERATE 24 HOURS, 7 DAYS A WEEK.

B. SYSTEM OFF:
1. THE EXHAUST FAN SHALL BE OFF.
2. THE MOTORIZED CONTROL DAMPERS SHALL BE CLOSED.

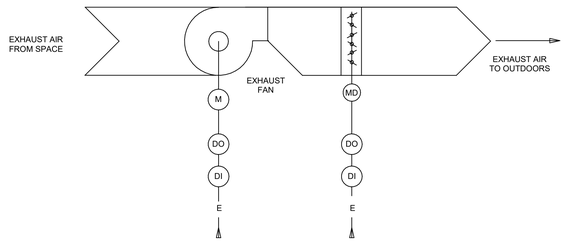
C. SYSTEM START:
1. WHEN THE EXHAUST FAN IS INDEXED TO OPERATE, THE EXHAUST FAN SHALL START.
2. UPON PROOF OF EXHAUST FAN OPERATION, ASSOCIATED DAMPERS AND CONTROL SHALL BE INDEXED TO THEIR "SYSTEM ON" CONDITIONS.

D. SYSTEM ON:
1. ONE EXHAUST FAN SHALL RUN CONTINOUSLY, MODULATE BYPASS DAMPER TO MAINTAIN STATIC PRESSURE SETPOINT OF 1.0" W.C. (ADJ). THE TAB CONTRACTOR SHALL DETERMINE THE FINAL SETPOINT.

E. SYSTEM STOP:
1. WHEN THE EXHAUST FAN IS INDEXED TO SHUT DOWN, THE EXHAUST FAN SHALL STOP.
2. DAMPERS SHALL BE INDEXED TO THEIR "SYSTEM OFF" CONDITIONS.

F. SAFETIES AND ALARMS:
1. FILTERS SHALL BE MONITORED AND GENERATE AN ALARM THROUGH THE BAS SYSTEM ANYTIME THE STATIC PRESSURE EXCEEDS ITS ADJUSTABLE SETPOINT.

G. FAILURE MODES:
1. FAN FAILURE: IF EXHAUST FAN FAILS TO OPERATE, AN ALARM SHALL BE ANNUNCIATED.
2. FAN STATUS: IF EXHAUST FAN STATUS DOES NOT MATCH COMMAND, AN ALARM SHALL BE ANNUNCIATED.



GENERAL SEQUENCES FOR ALL EXHAUST FANS

1. WHEN FAN IS NOT ENERGIZED, MOTORIZED DAMPER BETWEEN FAN AND EXHAUST LOUVER TO BE CLOSED. UPON CALL FOR OPERATION, MOTORIZED DAMPER TO OPEN. UPON PROVING OF DAMPER OPENING, FAN TO ENERGIZE.

2. ON FAN SHUTDOWN, FAN IS TO TURN OFF, THEN MOTORIZED DAMPER TO CLOSE.

TOILET ROOMS, SOILED, WASTE, HSKP, STAFF BREAK, LAUNDRY (EF-1 THRU EF-7, EF-10)

1. DURING THE OCCUPIED PERIOD, THE FAN TO TURN ON.

KITCHEN (EF-8)

1. WIRE FAN OPERATION TO WALL MOUNTED CONTROLS. WHEN WALL MOUNTED SWITCH IS TURNED ON, FAN SHALL BE ENERGIZE . WHEN WALL SWITCH IS TURNED OFF, FAN SHALL TURN OFF.

AIRBORNE INFECTIOUS ISOLATION (EF-9)

1. SEE DETAIL #2 ON SHEET M0601.

SEQUENCE OF OPERATION

1. "OCCUPIED" AND "UNOCCUPIED" MODE IS TO PROGRAMMED THROUGH THE BUILDING MANAGMENT SYSTEM.

2. THROUGH THE BUILDING MANAGEMENT SYSTEM OPERATORS WORKSTATION (OR WEB INTERFACE) IT SHALL BE POSSIBLE TO READ AND ADJUST SUPPLY AIRFLOW AND SPACE TEMPERATURE. DISCHARGE TEMPERATURE SHALL BE READOUT ONLY.

3. OCCUPIED CYCLE: VAV AIRFLOW WILL PROVIDE VENTILATION AIR TO SPACE AT DESIGN MINIMUM AIRFLOWS WHEN NO HEATING OR COOLING IS REQUESTED BY THERMOSTAT.

4. FOR VAV BOXES SERVING SPACES WITH NO SUPPLEMENTAL RADIANT OR FINNED-TUBE HEATING, FOLLOW THE BELOW SEQUENCE:

4.1. ON A CALL FOR HEATING, THE VAV AIRFLOW DAMPER WILL GO TO ITS DESIGN MINIMUM AIRFLOW SETTING.

4.2. IF THE SPACE REQUIRES ADDITIONAL HEATING, THE CONTROL VALVE ON THE HOT WATER COILS ON THE VAV BOX WILL OPEN.

4.3. ON ADDITIONAL HEATING DEMAND, THE AIRFLOW DAMPER WILL OPEN TO THE MAXIMUM HEATING AIRFLOW SETTING.

4.4. UPON MEETING HEATING DEMAND, THE VAV AIRFLOW DAMPER WILL RESTRICT TO AIRFLOW MINIMUM. IF HEATING DEMAND IS STILL REDUCED, THE CONTROL VALVE ON THE VAV HEATING COIL WILL MODULATE DOWN TO CLOSED. IF THE ROOM CONTINUES TO HEAT UP, THE VAV AIRFLOW DAMPER WILL OPEN TO MAXIMUM AIRFLOW RATE.

5. DURING BUILDING WARM-UP, THE CONTROL VALVES FOR VAV HYDRONIC COILS WILL OPE. SUPPLY AIR VOLUME WILL INCREASE TO ITS SCHEDULED HEATING MAXIMUM. ONCE BUILDING ENTERS REGULAR OCCUPIED MODE, THE BOX WILL BEGIN OCCUPIED SEQUENCE IN STEP 4.

6. DURING A CALL FOR COOLING, THE CONTROL VALVE FOR THE HYDRONIC COIL IN THE VAV TERMINAL BOX WILL BE CLOSED. SUPPLY AIR IS INCREASED TO THE SCHEDULED MAXIMUM. ONCE ROOM TEMPERATURE IS ACHIEVED, AIRFLOW RATE IS REDUCED TO BOX MINIMUM.

7. DEMAND CONTROLLED VENTILATION (DCV): FOR CONFERENCE 1-126, DINING ROOM 1-211, GROUP ROOM 1-216 AND ACTIVITY AREA 1-302 ONLY) FOLLOW THE BELOW SEQUENCE:
7.1 THE SUPPLY AND RETURN VAV BOXES WILL TRACK TOGETHER AS TO PROVIDE 0 CFM (ADJ) WHEN THE CO2 CONCENTRATION MEASURED IS BELOW 900 PPM (ADJ) AND NO HEATING OR COOLING IS REQUESTED BY THE THERMOSTAT.
7.2 WHEN THE CO2 CONCENTRATION MEASURED IS ABOVE 1,000 PPM (ADJ), THE SUPPLY AND RETURN VAV BOXES WILL TRACK TOGETHER TO INCREASE AIRFLOW TO PROVIDE MAXIMUM SCHEDULED AIRFLOW UNTIL THE SPACE C02 FALLS BELOW 900 PPM FOR A PERIOD OF 10 MINUTES. THE SUPPLY VAV WILL MAINTAIN SPACE TEMPERATURE AS SPECIFIED IN THE ABOVE SEQUENCES.
7.3 UPON DETECTION OF SENSOR FAILURE, THE SYSTEM SHALL PROVIDE A SIGNAL WHICH RESETS THE SUPPLY AND RETURN VAV BOXES TO SUPPLY MAXIMUM AIRFLOW.

8. CO2 MONITORING - LEED REQUIREMENTSEQUENCE OF OPERATION (AREAS WITH CO2 SENSOR NOT REQUIRING DCV):
8.1 CO2 MONITOR ARE TO BE MOUNTED IN EACH ROOM. AS SPACE CO2 LEVELS INCREASE BY MORE THAN 10% ABOVE 1000 PPM, ALARM SHALL BE SENT TO BAS. ONCE THE SPACE CO2 FALLS BELOW 900 PPM FOR A PERIOD OF 10 MINUTES ALARM SHALL BE DEACTIVATE.

9. RETURN AIR AND SUPPLY AIR TERMINAL UNITS SHALL MODULATE TOGETHER BASED ON THE AIRFLOWS PROVIDED IN THE SCHEDULE.

NOTES:
1. ALL C02 SENSORS SHALL BE CERTIFIED BY THE MANUFACTURER TO BE ACCURATE WITHIN PLUS OR MINUS 75 PPM AT A 600 AND 1000 PPM CONCENTRATION WHEN MEASURED AT SEA LEVEL AND 25 DEG. CELSIUS. FACTORY CALIBRATED AND CERTIFIED BY THE MANUFACTURER TO REQUIRE CALIBRATION NO MORE FREQUENTLY THAN ONCE EVERY 5 YEARS.

4 ISOLATION EXHAUST FAN CONTROL DIAGRAM (EF-9)

2 EXHAUST FAN CONTROL DIAGRAM

1 VARIABLE VOLUME TERMINAL UNIT WITH REHEAT CONTROLS

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HEATING HOT WATER SYSTEM CONTROLS DESCRIPTION

1.
SYSTEM DIFFERENTIAL PRESSURE SENSOR IS TO BE ROSEMONT OR EQUAL. SENSOR IS TO BE HARDWIRED IN CONDUIT BACK TO THE CENTRAL SYSTEM DDC PANEL. PROVIDE 3-1/2" PRESSURE GAUGE AT SENSOR AND BLOCK VALVES IN SENSING LINES.

2.
EACH PUMP VARIABLE FREQUENCY DRIVE IS TO INDICATE A LOSS OF POWER OR GENERAL ALARM TO THE BUILDING AUTOMATION SYSTEM (BAS.)

3.
THERMOMETERS AND PRESSURE AND TEMPERATURE PLUGS ARE TO BE PROVIDED BY THE MC AT EACH TEMPERATURE SENSOR. PRESSURE AND TEMPERATURE PLUGS ARE TO BE PROVIDED BY THE MC AT UPSTREAM AND DOWNSTREAM OF EACH FLOW METER.

4.
BOILER MANUFACTURER IS TO PROVIDE A MASTER BOILER CONTROLLER (ARGUS CONTROLLER) TO CONTROL BOILER FIRING RATE TO MAXIMIZE BOILER EFFICIENCY THROUGHOUT THE LOAD RANGE AND INTERNALLY CONTROL BOILER OPERATIONAL SEQUENCE.

5.
ALL REQUIRED COMMUNICATION BOARDS MUST BE PROVIDED TO ALLOW THE BUILDNG AUTOMATION SYSTEM (BAS) TO CONTROL AND MONITOR THE BOILERS.

6.
THE HOT WATER SYSTEM IS ON VARIABLE-PRIMARY, VARIABLE-SECONDARY PIPING AND PUMPING CONFIGURATION.

7.
THE SECONDARY LOOP SUPPLY TEMPERATURE TO ALL FIELD DEVICES (VAV REHEAT COILS, ETC.) IS TO BE RESET BASED ON OUTDOOR AIR TEMPERATURE SCHEDULE SHOWN ON THIS PAGE.

8.
THE HOT WATER PUMPS SHALL BE ABLE TO BE OVERRIDEN TO OPERABLE STATUS OR ON BY STAFF THROUGH THE BAS.

9.
UPON LOSS OF SIGNAL, POINTS SHALL DEFAULT TO LAST KNOWN POSITION.

SEQUENCE OF OPERATIONS

1.
SECONDARY LOOP PUMPS HWP-01 AND HWP-02 OPERATE TO MAINTAIN A CONSTANT DIFFERENTIAL PRESSURE BETWEEN THE HWS AND HWR LEGS BY MODULATING THE SPEED OF THE PUMP FROM 18 HZ TO 60 HZ. PUMPS ARE TO OPERATIVE WHERE ONE PUMP IS LEAD AND THE SECOND IS LAG (100% STAND-BY); LEAD AND LAG PUMP STATUS SHALL SWITCH EVERY 750 HOURS (ADJ). FAILURE OF LEAD PUMP STARTS LAG PUMP. ON STARTUP LEAD PUMP OPERATES TO CARRY THE ENTIRE BUILDING'S HEATING LOAD (FLOW RATE).

THE SYSTEM DIFFERENTIAL TEMPERATURE IS MEASURED AT THE ANALOG TEMPERATURE MEASURING POINT IN BOILER ROOM WHERE ALL RETURNS ARE COMBINED AND DOWNSTREAM OF SECONDARY PUMPS BEFORE ANY CIRCUIT TAKEOFFS.

2.
THE ENTIRE HOT WATER BOILER LOOP SHALL BE INITIATED FROM A "BOILER CONTROL - ENERGIZE/DEENERIZE" POINT ON THE PRIMARY BOILER CONTROL GRAPHIC. IN THE EVENT HOT WATER FLOW IS LOST DUE TO A PUMP MALFUNCTION THE BOILERS SHALL BE DE-ENERGIZED.

3.
ALL BOILERS ARE AVAILABLE FOR SERVICE AT ALL TIMES FOR ALL NORMAL OPERATION. ANY BOILER MAY BE TAKEN OUT OF SERVICE THROUGH A LOCAL "ON-OFF-AUTO" SWITCH ON EACH BOILER MANUALLY FOR SERVICE OR ANY OTHER REASON; ANY BOILER SO MANUALLY DE-ENERGIZED SHALL BE NOTED ON THE GRAPHIC SYSTEM SCHEMATIC AT THE FRONT END OPERATORS WORKSTATION. THE SELECTION OF OPERABLE BOILERS AND THE FIRING OF EACH OPERABLE BOILER SHALL BE ACCOMPLISHED THROUGH THE BOILER CONTROL CENTER WHICH SHALL FUNCTION AS THE OPERABLE HOT WATER TEMPERATURE DICTATE.

4.
BOILER PUMPS BP-01, & BP-02 ARE TO BE VARIABLE SPEED TO MAINTAIN VARIABLE FLOW RATE ACROSS BOILER. EACH BOILER PUMP IS TO RUN WHEN ITS RESPECTIVE BOILER IS THE LEAD BOILER OR WHEN IT IS ACTIVATED TO ADJUST THE HWS TEMPERATURE. ON A CALL FOR A BOILER TO START, THE BAS IS TO OPEN ALL CONTROL VALVES ON THE BOILER'S PRIMARY LOOP AND START ITS RESPECTIVE PUMP. PUMP IS TO SEND A POSITIVE ALARM TO BAS CONFIRMING PUMP OPERATION, THEN THE BAS IS TO ALLOW PUMP TO RUN FOR 1 MINUTE (ADJ) BEFORE STARTING BOILER FIRING SEQUENCE.

5.
AS THE CONTROL POINT TEMPERATURE DECREASES FROM ITS REGULATED CONTROL POINT, ONE BOILER IS ENERGIZED TO FIRE AT 10% OF ITS GENERATING CAPACITY AND THEN IT MODULATES UP TO 100% OF ITS GENERATING CAPACITY. BOILERS ARE TO OPERATIVE WHERE ONE BOILER IS LEAD AND THE SECOND IS LAG (100% STAND-BY). AS THE BUILDING HEATING LOAD DECREASES THE BOILER DECREASES ITS GENERATING CAPACITY SLOWLY BY MODULATING DOWN FROM 100% TO 10% BEFORE DE-ENGERGIZING.

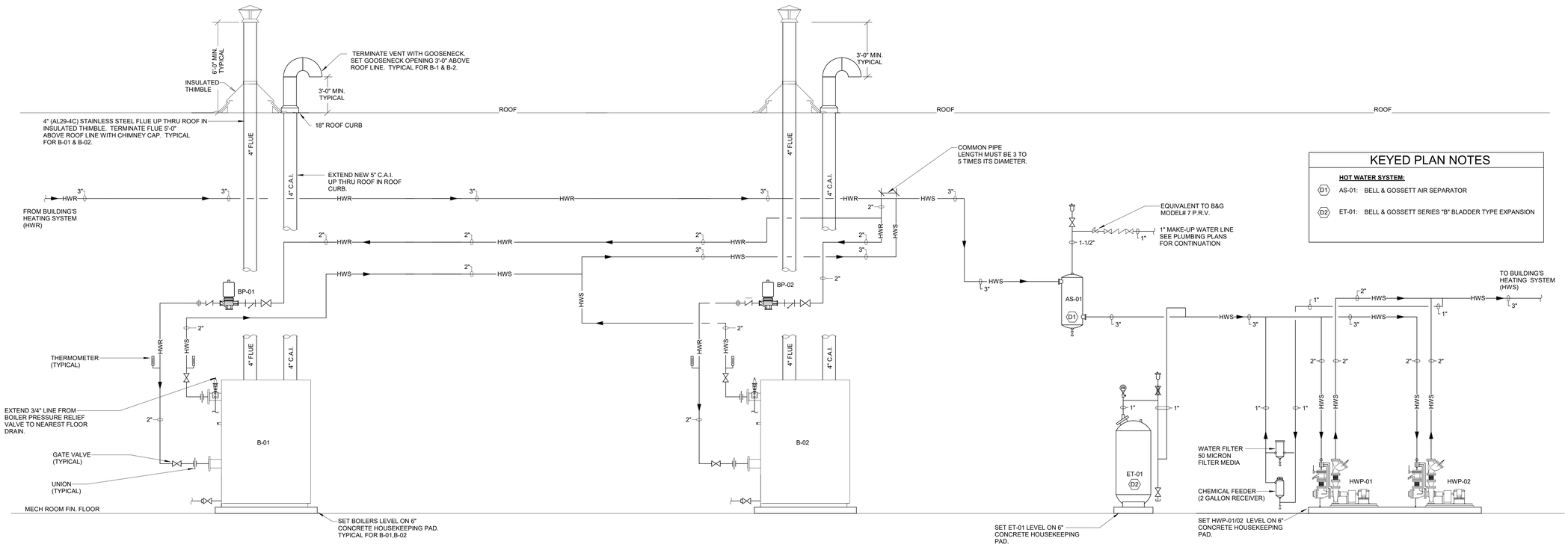
6.
WHEN A BOILER IS DE-ENERGIZED, ITS RESPECTIVE PRIMARY LOOP PUMP IS TO RUN FOR 10 MINUTES (ADJ) AFTER BOILER HAS TURNED OFF BEFORE TURNING OFF. ONCE THE PUMP HAS TURNED OFF, IT WILL SEND A SIGNAL TO THE BAS INDICATING ITS STATUS.

7.
THE BOILER ISOLATION VALVES (N.O.) SHALL BE ARRANGED TO BE HARD WIRED TO THE CONTROL PANEL ON EACH BOILER AND PROGRAMMED TO OPEN FULLY WHEN THE BOILER FIRES AND TO CLOSE WITH A 2 MINUTES (ADJ.) DELAY WHEN A BOILER PUMP IS SHUT DOWN.

8.
IF THE HEATING WATER TEMPERATURE DIFFFERENCE BETWEEN THE SUPPLY AND RETURN LEGS BECOMES GREATER THAN THE SCHEDULED VALUES, THE FOLLOWING STEPS ARE TO BE TAKEN:

i.
IF THE LEAD SECONDARY LOOP PUMP (HWP-01 OR -02) IS AT PART LOAD, THE LEAD SECONDARY PUMP IS TO INCREASE ITS FLOW RATE IN 5% (ADJ.) INCREMENTS EVERY 10 MINUTES (ADJ.) UNTIL THE TEMPERATURE DIFFERENCE COMES WITHIN THE SCHEDULED RANGE OR THE PUMP REACHES FULL DESIGN FLOW.

ii.
IF THE TEMPERATURE DIFFERENCE COMES WITHIN THE PROSCRIBED TEMPERATURE RANGE, THE PUMP IS TO RUN AT THIS FLOW RATE UNTIL EITHER THE TEMPERATURE DIFFERENCE INCREASES AGAIN OR THE TEMPERATURE RANGE FALLS BELOW A 30-DEGREE TEMPERATURE DIFFERENCE. IF THE TEMPERATURE DIFFERENCE FALLS BELOW 30 GREES, THE LEAD SECONDARY PUMP IS TO SLOW DOWN IN 5% (ADJ.) INCREMENTS EVERY 10 MINUTES (ADJ.) UNTIL THE TEMPERATURE DIFFERENCE IS MAINTAINED AT 30 DEGREES.



KEYED PLAN NOTES

HOT WATER SYSTEM:

D1 AS-01: BELL & GOSSETT AIR SEPARATOR

D2 ET-01: BELL & GOSSETT SERIES "B" BLADDER TYPE EXPANSION

1 HOT WATER BOILER PLANT PIPING DIAGRAM

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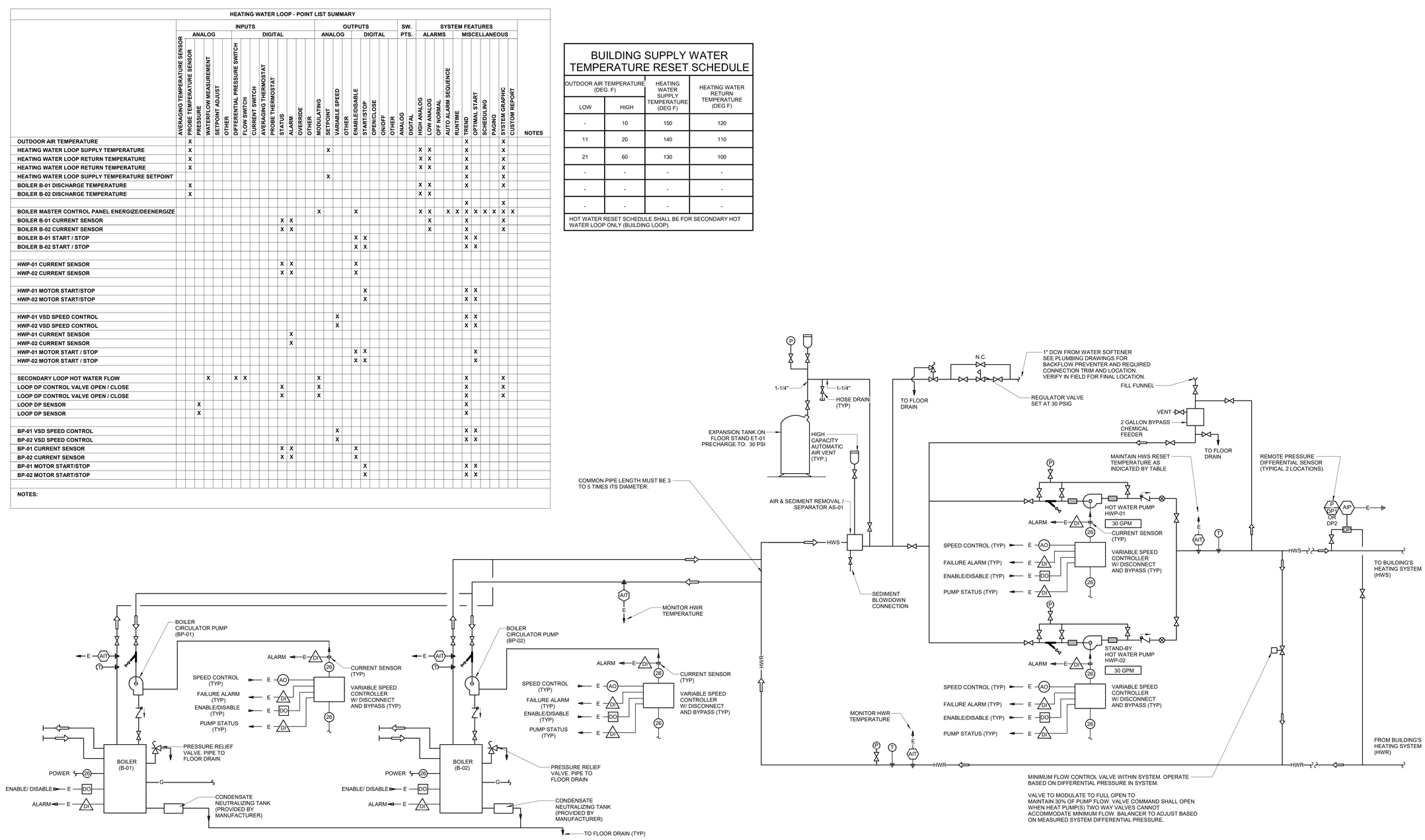
HEATING WATER LOOP - POINT LIST SUMMARY

	INPUTS																			OUTPUTS										SW. PTS.		SYSTEM FEATURES										
	ANALOG					DIGITAL														ANALOG			DIGITAL									ALARMS				MISCELLANEOUS						
	AVERAGING TEMPERATURE SENSOR	PROBE TEMPERATURE SENSOR	PRESSURE	WATER FLOW MEASUREMENT	SETPOINT ADJUST	OTHER	DIFFERENTIAL PRESSURE SWITCH	FLOW SWITCH	CURRENT SWITCH	AVERAGING THERMOSTAT	PROBE THERMOSTAT	STATUS	ALARM	OVERRIDE	OTHER	MODULATING	SETPOINT	VARIABLE SPEED	OTHER	ENABLE/DISABLE	START/STOP	OPEN/CLOSE	ON/OFF	OTHER	ANALOG	DIGITAL	HIGH ANALOG	LOW ANALOG	OFF NORMAL	AUTO ALARM SEQUENCE	RUNTIME	TREND	OPTIMAL START	SCHEDULING	PAGING	SYSTEM GRAPHIC	CUSTOM REPORT	NOTES
OUTDOOR AIR TEMPERATURE		X																																					
HEATING WATER LOOP SUPPLY TEMPERATURE		X															X									X	X				X				X		
HEATING WATER LOOP RETURN TEMPERATURE		X																								X	X				X				X		
HEATING WATER LOOP SUPPLY TEMPERATURE SETPOINT																	X									X	X				X				X		
BOILER B-01 DISCHARGE TEMPERATURE		X																								X	X				X				X		
BOILER B-02 DISCHARGE TEMPERATURE		X																								X	X										
																															X				X		
BOILER MASTER CONTROL PANEL ENERGIZE/DEENERGIZE																X				X						X	X		X	X	X	X	X	X	X		
BOILER B-01 CURRENT SENSOR												X	X														X				X				X		
BOILER B-02 CURRENT SENSOR												X	X														X				X				X		
BOILER B-01 START / STOP																				X	X										X	X					
BOILER B-02 START / STOP																				X	X										X	X					
HWP-01 CURRENT SENSOR												X	X							X																		
HWP-02 CURRENT SENSOR												X	X							X																		
HWP-01 MOTOR START/STOP																					X										X	X					
HWP-02 MOTOR START/STOP																					X										X	X					
HWP-01 VSD SPEED CONTROL																			X												X	X					
HWP-02 VSD SPEED CONTROL																			X												X	X					
HWP-01 CURRENT SENSOR												X																										
HWP-02 CURRENT SENSOR												X																										
HWP-01 MOTOR START / STOP																					X	X										X					
HWP-02 MOTOR START / STOP																					X	X										X					
SECONDARY LOOP HOT WATER FLOW			X			X	X										X														X				X		
LOOP DP CONTROL VALVE OPEN / CLOSE												X					X														X				X		
LOOP DP CONTROL VALVE OPEN / CLOSE												X					X														X				X		
LOOP DP SENSOR		X																													X						
LOOP DP SENSOR		X																													X						
BP-01 VSD SPEED CONTROL																			X												X	X					
BP-02 VSD SPEED CONTROL																			X												X	X					
BP-01 CURRENT SENSOR												X	X							X																		
BP-02 CURRENT SENSOR												X	X							X																		
BP-01 MOTOR START/STOP																					X										X						
BP-02 MOTOR START/STOP																					X										X						
NOTES:																																						

BUILDING SUPPLY WATER TEMPERATURE RESET SCHEDULE

OUTDOOR AIR TEMPERATURE (DEG. F)		HEATING WATER SUPPLY TEMPERATURE (DEG F)	HEATING WATER RETURN TEMPERATURE (DEG F)
LOW	HIGH		
-	10	150	120
11	20	140	110
21	60	130	100
-	-	-	-
-	-	-	-
-	-	-	-

HOT WATER RESET SCHEDULE SHALL BE FOR SECONDARY HOT WATER LOOP ONLY (BUILDING LOOP).



1 HOT WATER BOILER SYSTEM CONTROL DIAGRAM

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ROOFTOP UNIT(S) CONTROL DESCRIPTION

RTU-1 AND RTU-2 SEQUENCE OF OPERATION - OCCUPIED MODE:

1. UPON UNIT STARTUP, THE OUTDOOR AIR DAMPERS OPEN TO THEIR MINIMUM POSITION AS SENSED BY THE OA AIRFLOW MEASURING STATION.
2. THE SUPPLY FAN VARIABLE FREQUENCY DRIVE WILL INCREASE OR DECREASE STATIC PRESSURE SETPOINT BASED ON SATISFYING THE SUPPLY AIRFLOW VALVE REQUIRING THE MOST AIR PRESSURE (I.E. THE SETPOINT IS RESET LOWER UNTIL ONE ZONE DAMPER IS NEARLY WIDE OPEN). AS A SECOND (ALTERNATIVE) MEANS OF CONTROLLING THE SUPPLY FAN, A STATIC PRESSURE SENSOR LOCATED 90% THROUGH THE SUPPLY DUCT SYSTEM WILL MODULATE THE VARIABLE FREQUENCY DRIVE TO MAINTAIN 1.0" W.C.. THE STATIC PRESSURE IN THE SYSTEM SHALL BE RESET BASED UPON POLLING OF THE VAV-BOXES IN THE SPACE. THE SETTING SHALL BE RESET TO MAINTAIN A MINIMUM OF 2 (ADJ.) BOXES AT 90% (ADJ.) OPEN.
3. THE RETURN FAN VARIABLE FREQUENCY DRIVE IN CONJUNCTION WITH THE MOTORIZED DAMPER ON THE RETURN INLET OF THE UNIT WILL INCREASE OR DECREASE SPEED OF THE RETURN FAN TO MAINTAIN POSITIVE PRESSURE WITHIN THE BUILDING. THE OA DAMPER POSITION SHALL CONTROL THE OPERATION OF THE RETURN FAN SPEED. THIS SHALL BE SET UP DURING THE BALANCING OF THE BUILDING.
4. SUPPLY FAN AIRFLOW AND RETURN FAN AIRFLOW IS TO BE DETERMINED BY VELOCITY PRESSURE SENSORS MEASURING AIRFLOW THROUGH PIEZOMETER AIR MEASURING STATIONS LOCATED IN THE INLET OF EACH SUPPLY AND RETURN FAN.
5. THE DISCHARGE TEMPERATURE DOWNSTREAM OF THE COOLING COIL WILL BE MAINTAINED AT 54° F - 56° F (ADJ.) BY MODULATING THE OUTDOOR AIR DAMPERS, AND RETURN AIR DAMPERS IN SEQUENCE WITH COOLING COIL MECHANICAL REFRIGERATION IN FOUR VARIABLE STEPS. BELOW 50° F OAT MECHANICAL REFRIGERATION IS TO BE LOCKED OUT. ABOVE 70° OAT DAMPERS ARE TO INDEX TO MINIMUM OUTSIDE AIR POSITION. DISCHARGE AIR TEMPERATURE SHALL BE RESET BASED ON VAV-BOX POSITION WITHIN THE SYSTEM TO A MAXIMUM OF 60 DEGREES F (ADJ). THIS SHALL ALSO BE BASED ON THE ENTHALPY OF THE OUTSIDE AIR. PROVIDE SUPPLY AIR TEMPERATURE RESET ON UNITS WHEN THE OA CONDITIONS (OAT, RH) ALLOW FOR HUMIDITY AND TEMPERATURE CONTROL IN SPACE. POLL ALL VAV-BOXES AND SPACE TEMPERATURE SENSORS SO THAT NO SPACE IS OVERHEATED IN THIS MODE.
6. UNIT DISCHARGE TEMPERATURE SHALL BE CAPABLE OF AUTOMATIC RESET BASED ON ZONE DEMAND AND/OR OUTSIDE AIR TEMPERATURE.

RTU-1 AND RTU-2 ECONOMIZER MODE:
UNITS SHALL BE PROVIDED WITH ECONOMIZER MODE BASED ON GLOBAL OA TEMP FROM BAS. FOR NORMAL OPERATION, THE OUTSIDE AIR DAMPER SHALL BE OPEN TO ITS ESTABLISHED MINIMUM O.A. POSITION(POSITION DETERMINED BY TAB CONTRACTOR). OUTSIDE AIR DAMPER SHALL REMAIN AT MINIMUM POSITION WHEN THE ENTHALPY OF THE RETURN AIR IS LESS THAN THE ENTHALPY OF THE OUTSIDE AIR(NO ECONOMIZER), WHEN THE OUTSIDE AIR ENTHALPY IS LESS THAN THE RETURN AIR ENTHALPY, THE OUTSIDE AIR DAMPER SHALL FULLY OPEN IN SEQUENCE WITH THE MODULATING RETURN AIR DAMPERS TO SATISFY THE DISCHARGE AIR TEMPERATURE REQUIREMENTS.

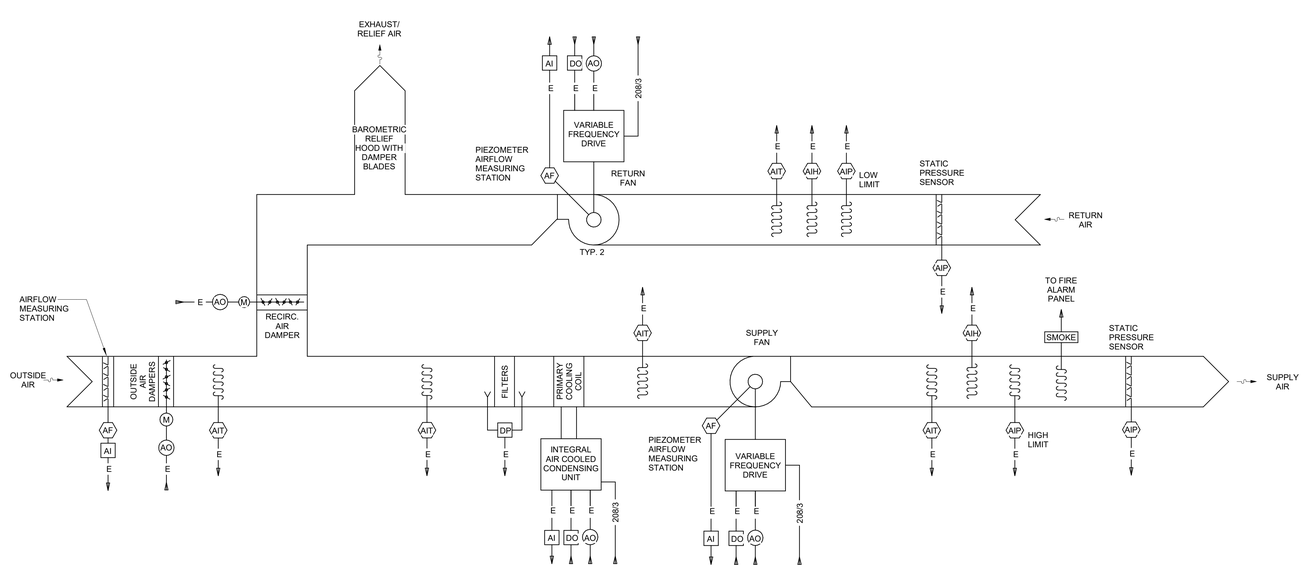
TYPICAL FOR RTU-1 AND RTU-2 NOTES:

A. RTU IS TO BE SINGLE POINT POWER CONNECTION TO INCLUDE ALL FANS (EXCEPT THE EXTERNAL RETURN FAN), CONDENSING UNIT, FURNACE BLOWER, AND CONTROL PANELS.
B. ON FAN SHUTDOWN FOR ANY REASON, OUTSIDE AIR DAMPERS ARE TO CLOSE WHILE THE RECIRC AIR DAMPERS ARE TO OPEN.
C. SMOKE DETECTORS IN THE SUPPLY OUTLET SHALL AUTOMATICALLY DEENERGIZE SUPPLY AND RETURN FANS AND CLOSE OUTSIDE AIR DAMPERS.
D. A SUPPLY HIGH LIMIT STATIC PRESSURE SWITCH LOCATED IN THE SUPPLY DUCT WILL DEENERGIZE THE SUPPLY FAN ANYTIME THE PRESSURE EXCEEDS 4".
E. A RETURN LOW LIMIT STATIC PRESS URE SWITCH LOCATED IN THE RETURN DUCT WILL DEENERGIZE THE RETURN FAN ANYTIME THE PRESSURE EXCEEDS 4".
F. THE PREFILTER DIFFERENTIAL PRESSURE SHALL GENERATE AN ALARM ANYTIME THE STATIC PRESSURE EXCEEDS 1.5" SP (ADJ).
G. RTU MANUFACTURER WILL PROVIDE AN INTEGRAL RTU DDC CONTROLLER WITH BACNET AND LONTALK CAPABILITIES. IT SHALL BE THE JOINT RESPONSIBILITY OF THE RTU MANUFACTURER, THE MECHANICAL CONTRACTOR AND THE BMS CONTRACTOR TO PROVIDE ALL DEVICES, HARDWARE, SOFTWARE, AND PROGRAMMING REQUIRED TO PERFORM ALL SEQUENCES LISTED ABOVE.
H. RTU DDC CONTROL PANEL IS TO GENERATE A GENERAL ALARM ONLY AT THE NETWORK SUPERVISORY CONTROLLER.

ROOFTOP UNIT (RTU 1 & 2) - POINT LIST SUMMARY

	INPUTS: ANALOG: AVERAGING TEMPERATURE SENSOR	PROBE TEMPERATURE SENSOR	PRESSURE	AIRFLOW MEASUREMENT	SETPOINT ADJUST	OTHER	INPUTS: DIGITAL: DIFFERENTIAL PRESSURE SWITCH	FLOW SWITCH	CURRENT SWITCH	AVERAGING THERMOSTAT	PROBE THERMOSTAT	STATUS	ALARM	OVERRIDE	OTHER	OUTPUTS: ANALOG: MODULATING	SETPOINT	VARIABLE SPEED	OTHER	OUTPUTS: DIGITAL: ENABLE/DISABLE	START/STOP	OPEN/CLOSE	ON/OFF	OTHER	SW. PTS.: ANALOG	DIGITAL	SYSTEM FEATURES: ALARMS: HIGH ANALOG	LOW ANALOG	OFF NORMAL	AUTO ALARM SEQUENCE	MISCELLANEOUS: RUNTIME	TREND	OPTIMAL START	SCHEDULING	PAGING	SYSTEM GRAPHIC	CUSTOM REPORT	NOTES
OUTSIDE AIR TEMPERATURE (GLOBAL)	X																															X					X	
RETURN AIR TEMPERATURE (COMMON)	X																															X					X	
MIXED AIR TEMPERATURE	X																															X					X	
PREHEAT COIL DISCHARGE TEMPERATURE	X																															X					X	
COOLING COIL DISCHARGE TEMPERATURE	X																															X					X	
RTU DISCHARGE TEMPERATURE	X																															X					X	
RETURN FAN VOLUME				X																												X					X	
OUTSIDE AIR VOLUME (MINIMUM)				X																												X					X	
SUPPLY FAN VOLUME				X																												X					X	
RTU DISCHARGE SUPPLY AIR STATIC PRESSURE		X																														X					X	
DUCT SUPPLY AIR STATIC PRESSURE		X																														X					X	
RETURN AIR VOLUME				X																												X					X	
RETURN FAN VFD																X																X					X	
RELIEF AIR DAMPER																X																X					X	
RETURN AIR DAMPER																X																X					X	
OUTSIDE AIR DAMPER (MINIMUM)																X																X					X	
OUTSIDE AIR DAMPER (ECONOMIZER)																X																X					X	
HEATING COIL																X																X					X	
COOLING COIL																X																X					X	
RETURN AIR DAMPER																X																X					X	
RETURN FAN CURRENT ALARM													X																		X									
SUPPLY FAN CURRENT ALARM													X																		X									
HEAT CURRENT ALARM													X																		X									
RETURN AIR LOW S.P. ALARM													X																	X										
SUPPLY AIR HIGH S.P. ALARM													X																X											
PRE-FILTER ALARM													X																X											
SAFETY LOW LIMIT THERMOSTAT ALARM (TYP. OF 2)													X																	X										
RETURN FAN START-STOP																					X													X						
SUPPLY FAN START-STOP																					X													X						
RETURN FAN INLET DAMPER																					X																			
SUPPLY FAN INLET DAMPER																					X																			

NOTES:



1 RTU - CONTROLS (TYPICAL FOR RTU-1/2)

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	ISSUE FOR PLANNING	15 DEC 2020
	ISSUE FOR GRADING PERMIT	03 DEC 2020

AGENCY APPROVAL

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CONSULTANT SEAL

PE 37650
Exp 3/21/22
MECHANICAL
STATE OF CALIFORNIA

Drawing Title:

FLOW AND CONTROL DIAGRAMS

Issue Date: 10/26/20

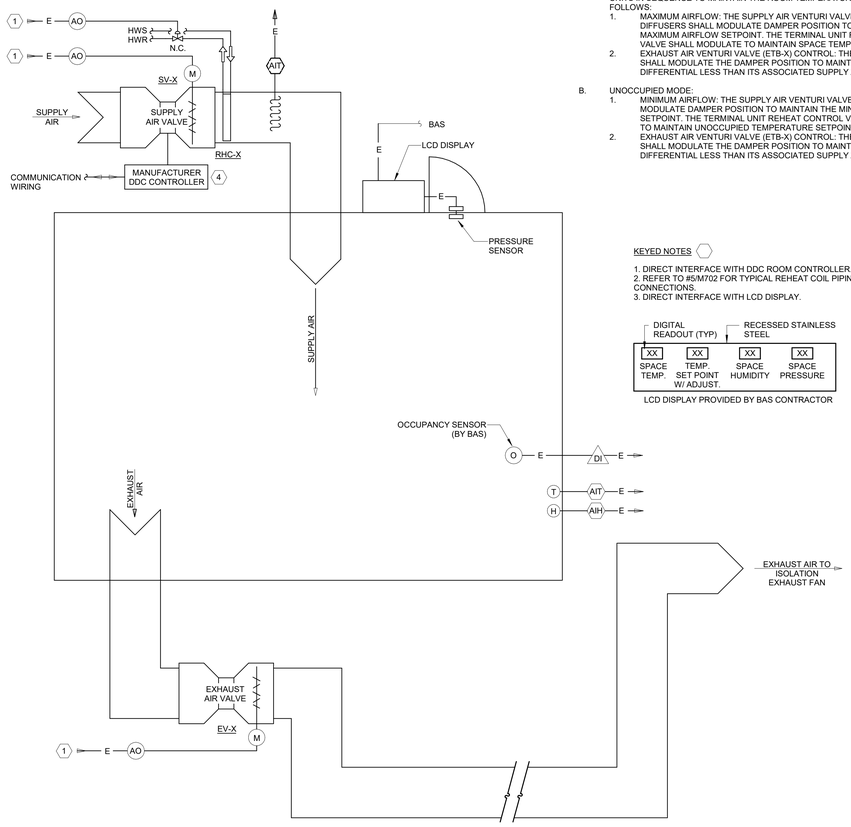
Project No.: 006240.00 Checked by: Checker

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SEQUENCE OF OPERATION

A. OCCUPIED MODE: THE DDC CONTROLLER SHALL CONTROL THE AIR TERMINAL UNITS IN SEQUENCE TO MAINTAIN THE ROOM TEMPERATURE SETPOINT AS FOLLOWS:
   1. MAXIMUM AIRFLOW: THE SUPPLY AIR VENTURI VALVE (STB-X) SERVING THE DIFFUSERS SHALL MODULATE DAMPER POSITION TO MAINTAIN THE MAXIMUM AIRFLOW SETPOINT. THE TERMINAL UNIT REHEAT CONTROL VALVE SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE SETPOINT.
   2. EXHAUST AIR VENTURI VALVE (ETB-X) CONTROL: THE EXHAUST VALVE SHALL MODULATE THE DAMPER POSITION TO MAINTAIN 90 CFM DIFFERENTIAL LESS THAN ITS ASSOCIATED SUPPLY AIR UNIT.

B. UNOCCUPIED MODE:
   1. MINIMUM AIRFLOW: THE SUPPLY AIR VENTURI VALVE (STB-X) SHALL MODULATE DAMPER POSITION TO MAINTAIN THE MINIMUM AIRFLOW SETPOINT. THE TERMINAL UNIT REHEAT CONTROL VALVE SHALL MODULATE TO MAINTAIN UNOCCUPIED TEMPERATURE SETPOINT.
   2. EXHAUST AIR VENTURI VALVE (ETB-X) CONTROL: THE EXHAUST VALVE SHALL MODULATE THE DAMPER POSITION TO MAINTAIN 90 CFM DIFFERENTIAL LESS THAN ITS ASSOCIATED SUPPLY AIR UNIT.

KEYED NOTES

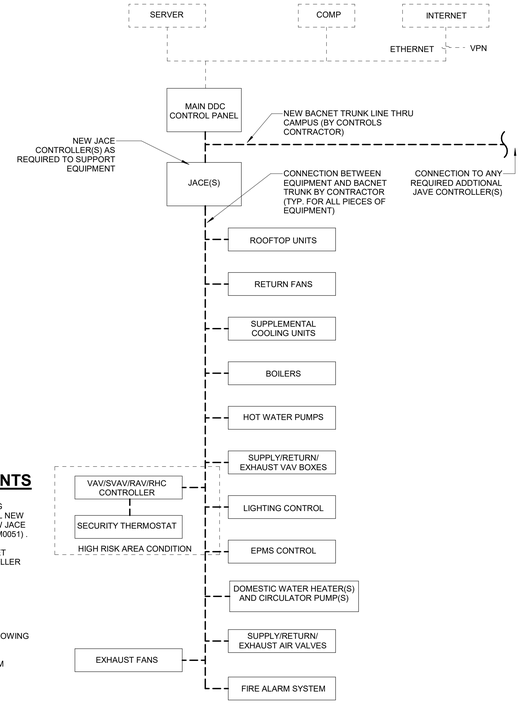
1. DIRECT INTERFACE WITH DDC ROOM CONTROLLER.
2. REFER TO #5/M702 FOR TYPICAL REHEAT COIL PIPING CONNECTIONS.
3. DIRECT INTERFACE WITH LCD DISPLAY.

DIGITAL READOUT (TYP) — RECESSED STAINLESS STEEL

SPACE TEMP.	TEMP. SET POINT W/ ADJUST.	SPACE HUMIDITY	SPACE PRESSURE
XX	XX	XX	XX

LCD DISPLAY PROVIDED BY BAS CONTRACTOR

2 ISOLATION ROOM CONTROL DIAGRAM



GENERAL CONTROLS SYSTEM REQUIREMENTS

1. CONTROLS CONTRACTOR TO PROVIDE AND INSTALL NEW JACE-TRIDIUM BUILDING CONTROL PANEL IN MECHANICAL ROOMS (SEE PLANS). CONTRACTOR TO INSTALL NEW BACNET TRUNK LINE BETWEEN BUILDINGS THRU CAMPUS, AND CONNECT TO NEW JACE PANEL AND EACH NEW FIELD LEVEL CONTROLLER AT EACH BUILDING (SEE DWG M0051) .
2. EACH NEW PIECE OF EQUIPMENT ON PROJECT IS TO BE PROVIDED WITH A BACNET COMPATIBLE APPLICATION SPECIFIC (SOMETIMES TERMED FIELD-LEVEL) CONTROLLER BY THE MANUFACTURER, AND CONTROLS CONTRACTOR IS TO CONNECT NEW APPLICATION SPECIFIC CONTROLLER TO NEW BACNET TRUNK.
3. CONTROLS CONTRACTOR TO PROVIDE OWNER WITH A COPY OF ALL CONTROLS LANGUAGE(S) USED ON PROJECT SO THAT DISTRICT MAY MANAGE ITS OWN PROGRAMMING ONCE WARRANTY PERIOD HAS ELAPSED.
4. WHEN POSSIBLE, ALL DATA CONTROL POINTS ARE TO BE NVI CLASSIFICATION ALLOWING FOR UNLIMITED READ/WRITE CAPABILITIES.
5. COORDINATE REQUIRED SYSTEM CONTROLS INTO BAS WITH RESPECTIVE SYSTEM CONTRACTOR:
   A. FIRE ALARM SYSTEM
   B. EPMS CONTROL
   C. LIGHTING CONTROL
   D. DOMESTIC WATER HEATER(S) AND CIRCULATOR PUMP(S)

1 CONTROLS NETWORK / BACNET TRUNK RISER SCHEMATIC

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CONSULTANT SEAL

REGISTERED PROFESSIONAL ENGINEER — KEITH DOUGLAS HAMILTON — PE 37600 — Exp 3/31/22 — MECHANICAL — STATE OF CALIFORNIA

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FLOW AND CONTROL DIAGRAMS

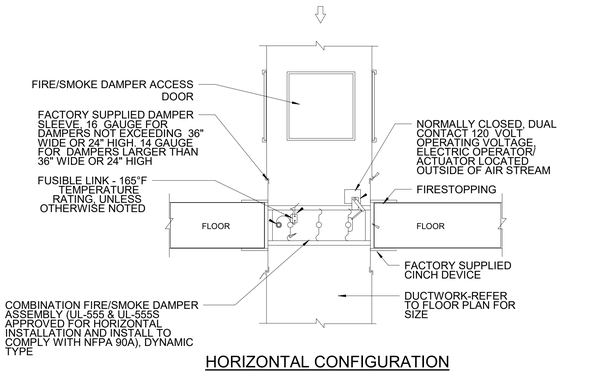
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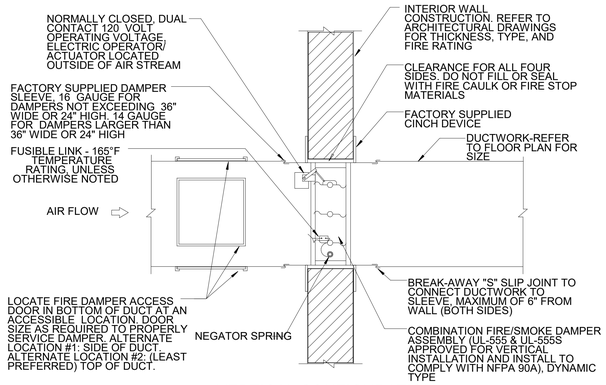
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HORIZONTAL CONFIGURATION



VERTICAL CONFIGURATION

NOTES:

1. ELECTRICAL CONTRACTOR WILL PROVIDE POWER WIRING AND CONDUIT TO INTERLOCK WITH EMERGENCY POWER OFF (EPO) SYSTEM.

2. FOLLOW THE DAMPER MANUFACTURER'S INSTALLATION DETAILS AND INSTRUCTIONS (AS TESTED AND APPROVED BY UL).

3. LABEL THE ACCESS DOORS: "FIRE/SMOKE DAMPER ACCESS".

4. WHERE ACCESS DOORS ARE INSTALLED ON THE SIDE OF A DUCT, PROVIDE A LABEL OR SIGN AT THE BOTTOM OF THE DUCT WITH AN ARROW AND "FIRE/SMOKE DAMPER ACCESS DOOR" TEXT POINTING TO THE ACCESS DOOR. WHERE ACCESS DOORS ARE INSTALLED ON THE TOP OF THE DUCT, PROVIDE A LABEL OR SIGN AT THE BOTTOM OF THE DUCT WITH "FIRE/SMOKE DAMPER ACCESS DOOR ON TOP OF DUCT."

5. SEQUENCE OF OPERATION:

   A. FIRE DAMPER MODE: HIGH TEMPERATURE MELTS FUSIBLE LINK, CLOSING FIRE DAMPER.

   B. SMOKE DAMPER MODE: SMOKE DETECTOR UPON SENSING HEAT/SMOKE ACTIVATES DAMPER MOTOR TO CLOSE DAMPER.

   C. FAIL SAFE MODE: LOSS OF ELECTRICAL POWER OR CONTROL AIR TO THE ACTUATOR SHALL CLOSE THE DAMPER (NORMALLY CLOSED).

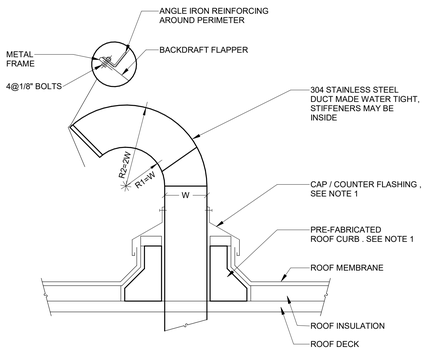
   D. DAMPER TO CLOSE IF THERE IS NO AIRFLOW.

6. FIRE DAMPER SIMILAR TO GREENHECK FD-150 / DFD-150

7. COMBINATION FIRE/SMOKE DAMPER SIMILAR TO GREENHECK FSD-211/FSD-311

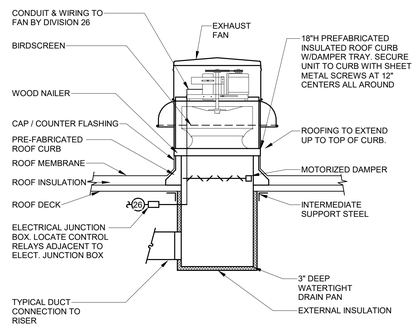
8. ALL DAMPERS REQUIRE ACCESS THAT SHALL NOT REQUIRE THE USE OF TOOLS, KEYS OR SPECIAL KNOWLEDGE. ALL ACCESS POINTS SHALL BE PERMANENTLY IDENTIFIED ON THE EXTERIOR BY A LABEL WITH LETTERS NOT LESS THAN ½" IN HEIGHT READING: SMOKE DAMPER, FIRE DAMPER OR COMBINATION F/S DAMPER. 2019 CMC SEC. 605.5

10 FIRE/SMOKE DAMPER DETAIL
NTS



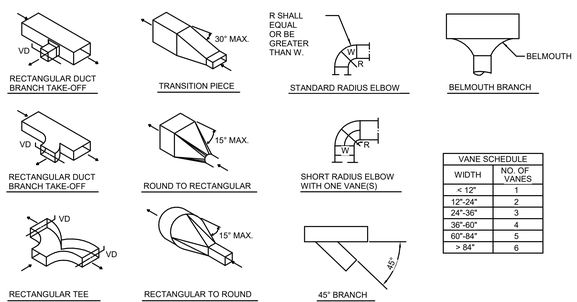
NOTES:
1. REFER TO ARCHITECTURAL DWGS FOR CURB AND FLASHING DETAIL.

8 ROOF EXHAUST FAN
NTS



NOTES:
1. REFER TO ARCHITECTURAL DWGS FOR CURB AND FLASHING DETAIL.

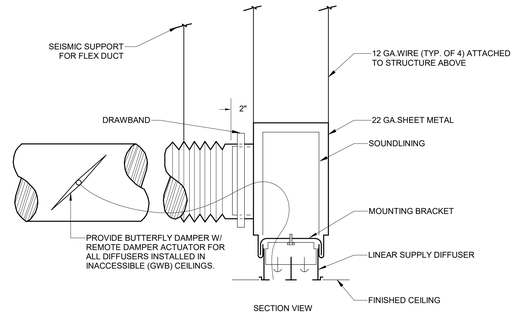
9 TYPICAL GOOSENECK
NTS



VANE SCHEDULE	
WIDTH	NO. OF VANES
< 12"	1
12"-24"	2
24"-36"	3
36"-60"	4
60"-84"	5
> 84"	6

NOTES:
1. PROVIDE STANDARD RADIUS ELBOWS WHEN POSSIBLE - SHORT RADIUS WHERE REQUIRED.
2. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED, & FASTENED AS RECOMMENDED BY SMACNA. NO SQUARE OR RECTANGULAR HEEL ELBOWS SHALL BE ALLOWED, WITHOUT TURNING VANES.
3. NO SPIN-IN CONNECTIONS SHALL BE ALLOWED.
4. FOR RADIUS ELBOWS, IF R IS LESS THAN W, THEN FULL ARC TURNING VANE(S)
5. SHALL BE PROVIDED, SEE THE VANE SCHEDULE. THE INSIDE BEND MAY BE SQUARE FOR W > 12",

7 SUPPLY, RETURN AND EXHAUST DUCTWORK DETAIL
NTS

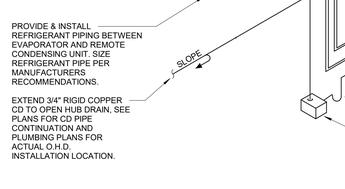


SECTION VIEW

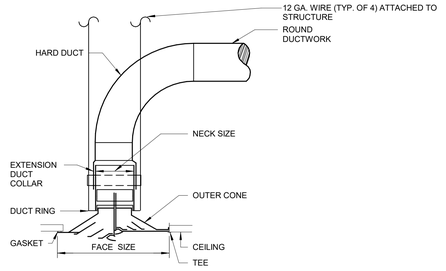
NOTES:

1. LENGTH OF PLENUM IS EQUAL TO DIFFUSER LENGTH UNLESS OTHERWISE INDICATED.
2. SUPPORT PLENUMS FROM STRUCTURAL MEMBERS ABOVE.
3. REFER TO ACOUSTICAL PANEL CEILINGS SPECIFICATION SECTION 95113 FOR INSTALLATION DETAIL.

6 TYPE -7 LINEAR SUPPLY DIFFUSER
NTS



4 TYPE 5 RETURN AIR TRANSFER GRILLE
NTS



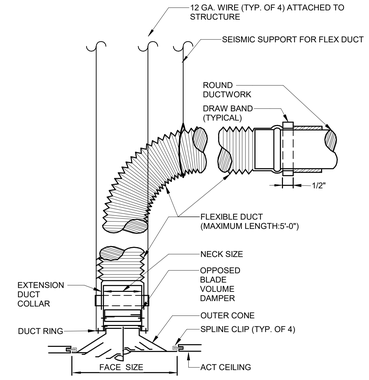
3 TYPE 1, 2, 3 AND 4 HARD DUCTED CEILING DIFFUSER
NTS

1 SPLIT AC UNIT DETAIL - WALL MOUNTED EVAPORATOR DETAIL
NTS

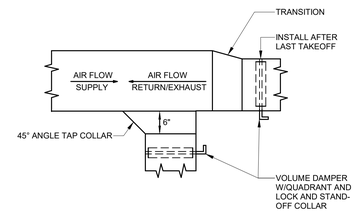
NOTES:

1. PROVIDE CLEARANCE IN ALL APPLICABLE AREAS AROUND UNITS FOR MAINTENANCE AND REPAIR. COORDINATE SERVICE AREAS WITH LANDLORD.
2. COORDINATE REFRIGERANT PIPE SIZING WITH AC UNIT MANUFACTURER.
3. SET CONDENSING UNIT LEVEL ON ROOF WITH EQUIPMENT RAILS.
4. ROUTE REFRIGERANT PIPING THRU ROOF IN PIPE CURB.
5. FIELD COORDINATE FINAL INSTALLATION LOCATION OF NEW WALL AND CEILING MOUNTED EVAPORATOR UNITS WITH EXISTING CONDITIONS (IE. LIGHT FIXTURE, SPRINKLER HEADS, PROJECTORS, ETC.)

5 TYPE 1, 2, 3, AND 4 CEILING DIFFUSER
NTS



2 DUCT TAKE-OFF
NTS



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MECHANICAL
STATE OF CALIFORNIA

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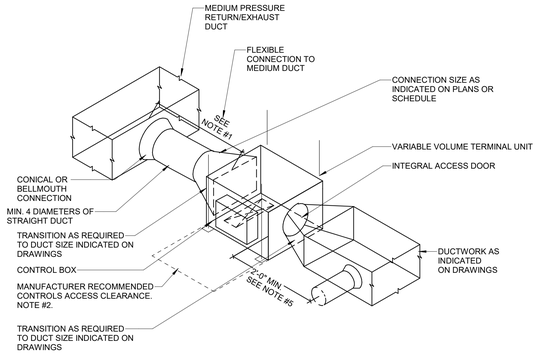
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NOTES:

1. IF TOTAL LENGTH FROM MAIN TO INLET OF THE TERMINAL BOX EXCEEDS 5'-0" TRANSITION TO TWO ROUND DUCT SIZES GREATER THAN THE INLET SIZE.

2. MAINTAIN PROPER SERVICE CLEARANCE IN FRONT OF CONTROL PANEL, ACTUATOR, AND FLEXIBLE DUCT AT INLET.

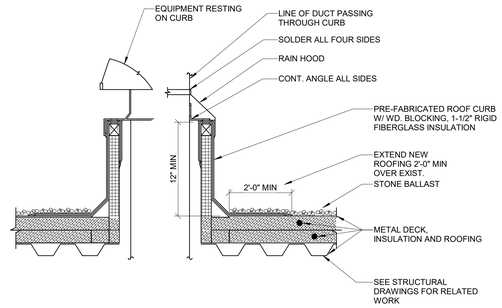
3. COORDINATE THE INSTALLATION LOCATION OF EACH TERMINAL UNIT TO PROVIDE PROPER ACCESS AND SERVICE CLEARANCES WITH THE CEILING GRIDS AND CEILING MOUNTED ITEMS.

4. SUPPORT TERMINAL UNIT FROM BUILDING STRUCTURE.

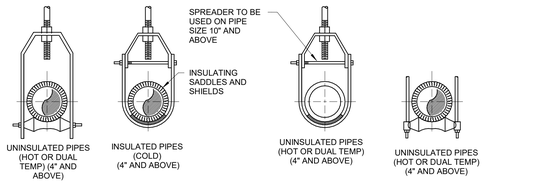
5. 2'-0" MINIMUM DISTANCE BEFORE FIRST BRANCH TAKE-OFF.

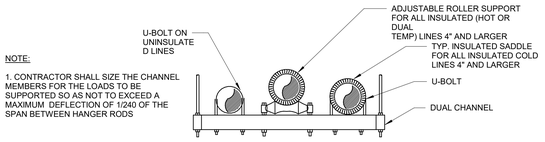
6. INSULATED FLEX DUCT AT INLET TO TERMINAL UNIT SHALL NOT HAVE MASTIC APPLIED TO CONNECTION AT THE UNIT.

11 RVAV / EVAV TERMINAL UNIT DETAIL
NTS



8 ROOF CURB DETAIL
NTS

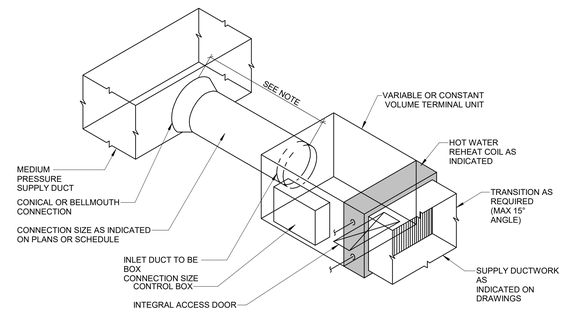




NOTE:

1. CONTRACTOR SHALL SIZE THE CHANNEL MEMBERS FOR THE LOADS TO BE SUPPORTED SO AS NOT TO EXCEED A MAXIMUM DEFLECTION OF 1/240 OF THE SPAN BETWEEN HANGER RODS

3 PIPE SUPPORT AND HANGER DETAIL
NTS



NOTES:

1. IF TOTAL LENGTH FROM MAIN TO INLET OF THE TERMINAL BOX EXCEEDS 5'-0" TRANSITION TO TWO ROUND DUCT SIZES GREATER THAN THE INLET SIZE.

2. MAINTAIN PROPER SERVICE CLEARANCE IN FRONT OF CONTROL PANEL, ACTUATOR AND FLEXIBLE DUCT AT INLET.

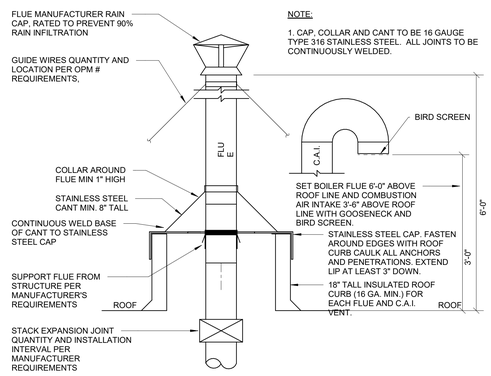
3. COORDINATE WITH LANDLORD THE INSTALLATION LOCATION OF EACH TERMINAL UNIT TO PROVIDE PROPER ACCESS AND SERVICE CLEARANCES WITH THE CEILING GRIDS AND CEILING MOUNTED ITEMS.

4. SUPPORT TERMINAL UNIT FROM BUILDING INFRASTRUCTURE.

5. 5'-0" MINIMUM DISTANCE BEFORE FIRST BRANCH TAKE-OFF.

6. INSULATED FLEX DUCT AT INLET TO TERMINAL UNIT SHALL NOT HAVE MASTIC APPLIED TO CONNECTION AT THE UNIT.

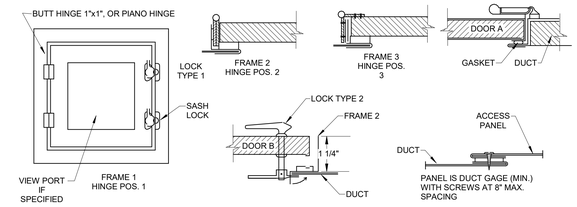
10 SVAV TERMINAL UNIT W/HOT WATER REHEAT COIL
NTS



NOTE:

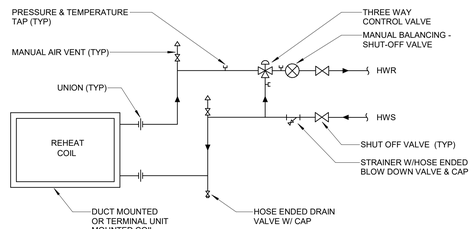
1. CAP, COLLAR AND CANT TO BE 16 GAUGE TYPE 316 STAINLESS STEEL. ALL JOINTS TO BE CONTINUOUSLY WELDED.

7 BOILER STACK AT ROOF
NTS

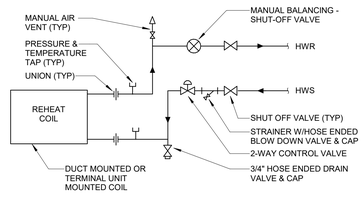


	DOOR SIZE	NO. HINGES	NO. LOCKS	METAL GAGE		
				FRAME	DOOR	BACK
2" W.G. STATIC AND LESS	18" x 18"	2	1-S	24	26	26
	16" x 20"	2	2-S	22	24	26
	24" x 24"	3	2-S	22	22	26
3" W.G. STATIC	18" x 18"	2	1-S	22	22	26
	16" x 20"	2	1-S,1-T,1-B	20	20	26
	24" x 24"	3	2-S,1-T,1-B	20	20	24
4" W.G. TO 10" W.G.	18" x 18"	2	1-S,1-T,1-B	20	20	26
	16" x 20"	3	2-S,1-T,1-B	18	18	24
	24" x 24"	3	2-S,2-T,2-B	18	18	24
S = SIDE OPPOSITE HINGES, T = TOP, B = BOTTOM						

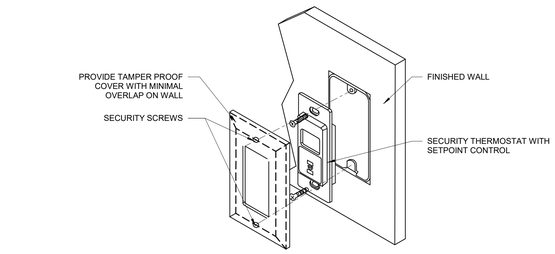
9 DUCT ACCESS DOORS
NTS



6 3-WAY REHEAT COIL PIPING DIAGRAM
NTS

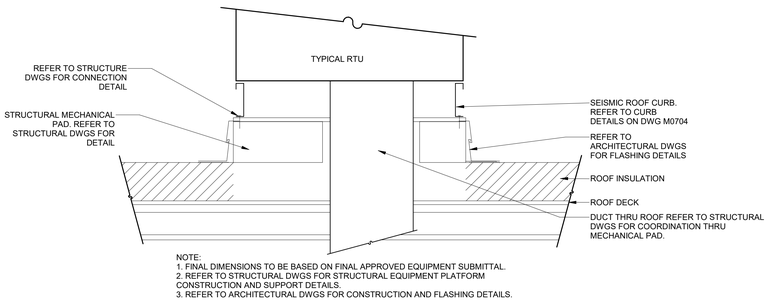


5 2-WAY REHEAT COIL PIPING DIAGRAM
NTS



NOTES:
1. COORDINATE INSTALLATION HEIGHT WITH OTHER DEVICES.
2. PROVIDE WITH SECURITY FASTENERS AND SEALANT PER SPECIFICATION.
3. PROVIDE WITH 5 TO 12 VDC POWER VIA POWER CONVERTER.
4. SIMILAR TO BAPI MODEL BA/TQF-A-2-A10-N-1.

2 SECURITY THERMOSTAT INSTALLATION DETAIL
NTS



NOTE:
1. FINAL DIMENSIONS TO BE BASED ON FINAL APPROVED EQUIPMENT SUBMITTAL.
2. REFER TO STRUCTURAL DWGS FOR STRUCTURAL EQUIPMENT PLATFORM CONSTRUCTION AND SUPPORT DETAILS.
3. REFER TO ARCHITECTURAL DWGS FOR CONSTRUCTION AND FLASHING DETAILS.

1 TYPICAL RTU EQUIPMENT PAD DETAIL
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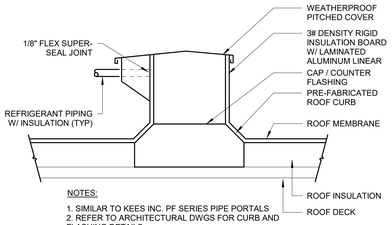
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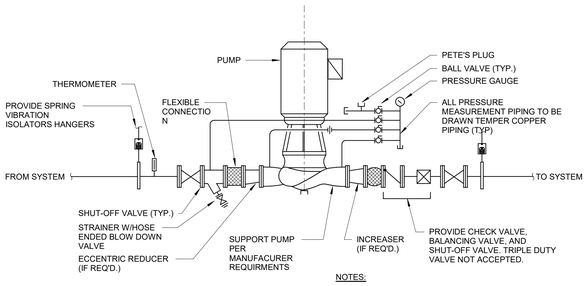
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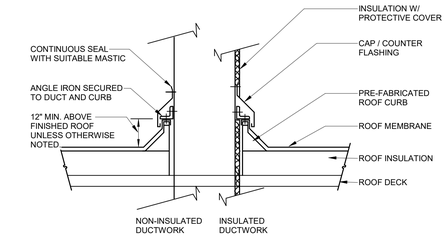
NOTES:
1. SIMILAR TO KEES INC. PF SERIES PIPE PORTALS
2. REFER TO ARCHITECTURAL DWGS FOR CURB AND FLASHING DETAILS.

10 PIPE PORTAL DETAIL
NTS



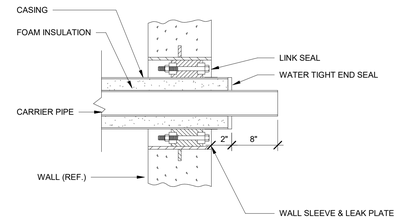
NOTES:
1. INSTALL PER ASHRAE 2004 SYSTEM 39.14

7 INLINE PUMP DETAIL
NTS



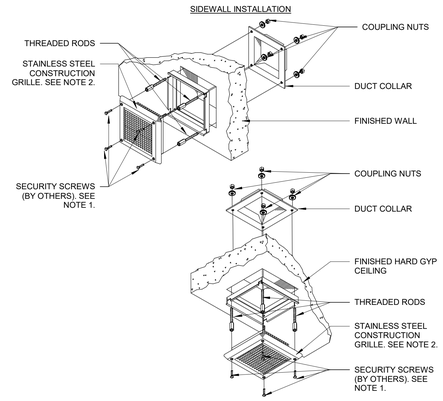
NOTE:
1. REFER TO ARCHITECTURAL DWGS FOR CURB AND FLASHING DETAIL.

4 DUCT THROUGH ROOF
NTS



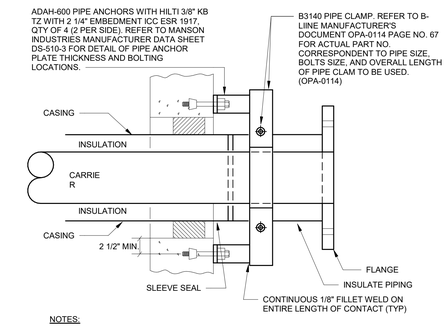
NOTES:
1. USE AT BUILDING WALLS AND AT UTILITY VAULT WALLS.
2. WALL SLEEVE AND LEAK PLATE IN NEW CONSTRUCTION. CORE DRILL EXISITING CONSTRUCTION

3 WALL PIPE PENETRATION DETAIL
NTS



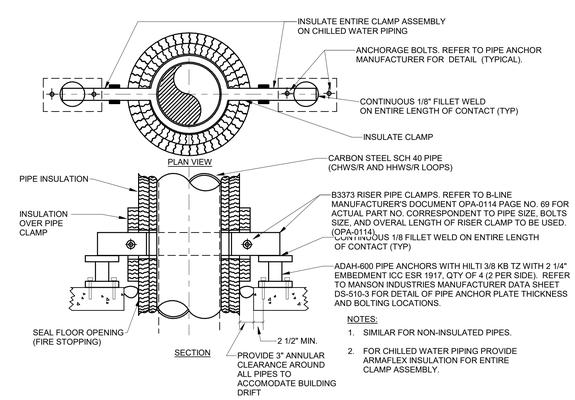
NOTES:
1. TAMPER PROOF HEXALOBULAR SCREW WITH CENTER PIN REJECT. MECH CONTRACTOR TO PROVIDE PER MANF. INSTALLATION GUIDELINES.
2. AS NECESSARY, SEAL ANY GAPS AROUND THE FACEPLATE USING AN APPROVED SECURITY SEALANT PER ARCH. SPECIFICATION.
3. COORDINATE INSTALLATION OF GRILLE WITH ARCH. CEILING PLAN, LIGHTING, SPRINKLERS AND OTHER DEIVICES LOCATED WITHIN CEILING.

9 SECURITY DIFFUSER INSTALLATION DETAIL
NTS



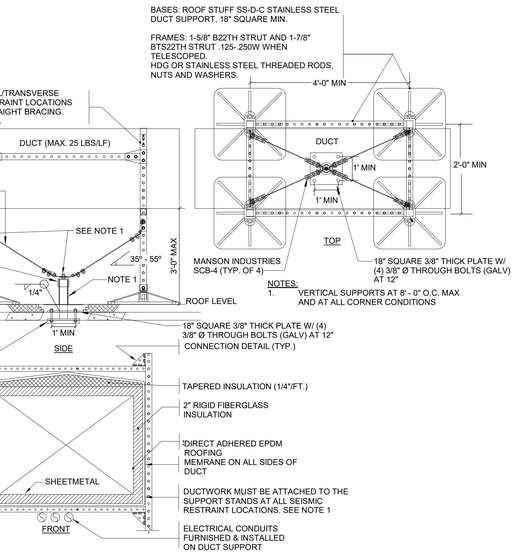
NOTES:
1. WALL SLEEVE AND LEAK PLATE IN NEW CONSTRUCTION. CORE DRILL EXISTING CONSTRUCTION.

6 PIPE ANCHOR DETAIL
NTS



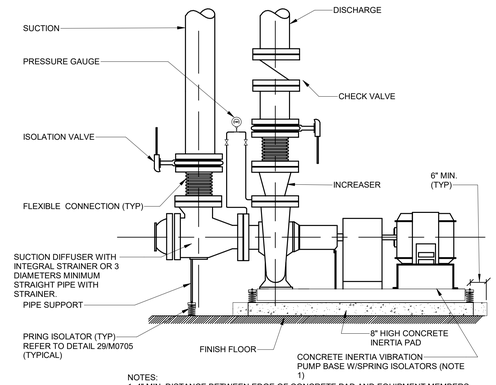
NOTES:
1. SIMILAR FOR NON-INSULATED PIPES.
2. FOR CHILLED WATER PIPING PROVIDE ARMAFLEX INSULATION FOR ENTIRE CLAMP ASSEMBLY.

2 PIPE ANCHOR / FLOOR SUPPORT DETAIL
NTS



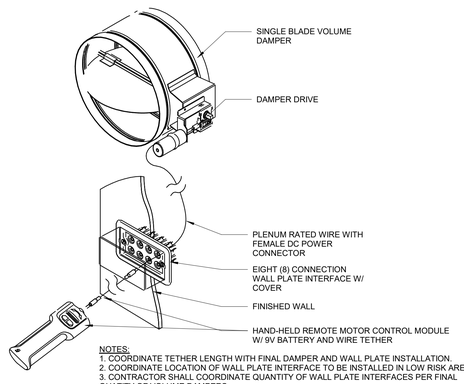
NOTES:
1. VERTICAL SUPPORTS AT 8' - 0" O.C. MAX AND AT ALL CORNER CONDITIONS

8 ROOF MOUNTED DUCT SUPPORT
NTS



NOTES:
1. 4" MIN. DISTANCE BETWEEN EDGE OF CONCRETE PAD AND EQUIPMENT MEMBERS.

5 TYPICAL BASE MOUNTED PUMP
NTS



NOTES:
1. COORDINATE TETHER LENGTH WITH FINAL DAMPER AND WALL PLATE INSTALLATION.
2. COORDINATE LOCATION OF WALL PLATE INTERFACE TO BE INSTALLED IN LOW RISK AREA.
3. CONTRACTOR SHALL COORDINATE QUANTITY OF WALL PLATE INTERFACES PER FINAL QUATITY OF VOLUME DAMPERS.

1 HIGH RISK AREA REMOTE VOLUME DAMPER DETAIL
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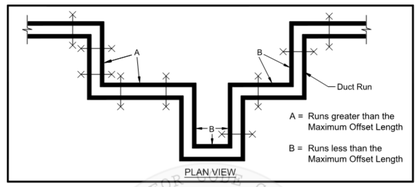
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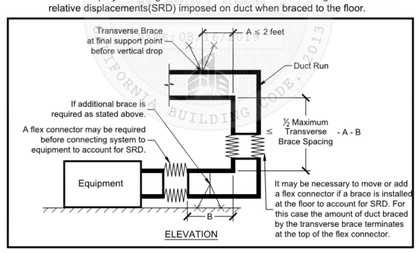
1. FOR CONNECTION TO STRUCTURE, REFER TO M OR N PAGES FROM OPM-0043-13

LAYOUT OF SEISMIC BRACES FOR DUCTWORK (continued)

Step 5. Multiple changes in direction may be treated as one complete system. Straight runs greater than the maximum offset length require 2 transverse braces. Straight runs less than the maximum offset length may require as few as one or no braces. (See layout below)



Step 6. Vertical drops to equipment must be restrained with a transverse brace at the final support point before the vertical drop. The distance from the transverse brace to the drop must be within the maximum offset length of the system. The maximum allowable length of the system braced from the transverse brace to the flexible connector is equal to ½ of the maximum transverse brace spacing indicated in Section A. If this distance is greater than ½ of the maximum transverse brace spacing, an additional brace is required at the end of the vertical drop by attaching to the floor. Consideration must be given to seismic relative displacements(SRD) imposed on duct when braced to the floor.



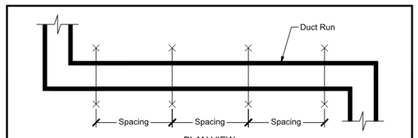
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PAGE A3.2

LAYOUT OF SEISMIC BRACES FOR DUCTWORK (continued)

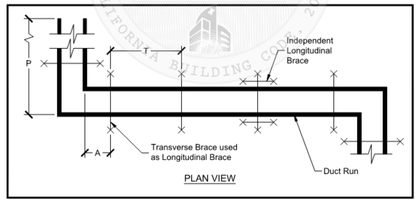
Step 3. Add transverse braces, if required, to limit the spacing(s) to the maximum spacing indicated in Section A.



Spacing ≤ **Maximum transverse brace spacing**

Step 4. Each straight run must be braced in the longitudinal direction (parallel to the run) with at least one brace. Transverse braces within the maximum offset length discussed in Step 1 may be used in addition to or in lieu of independent longitudinal braces. The length of duct around a 90 degree turn (indicated as 'P' below) longitudinally braced from a transverse brace = S-0.5T-A, where:

S = Maximum Allowable Transverse Brace Spacing (30 feet per note 3, Page A1.5)
T = The distance between Transverse Braces
A = Offset Length ≤ 2 feet



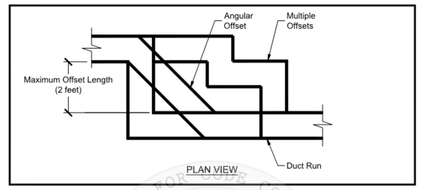
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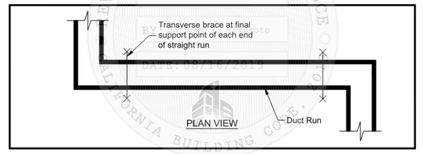
PAGE A3.1

LAYOUT OF SEISMIC BRACES FOR DUCTWORK

Step 1. Separate the layout of the system into individual straight runs. A straight run is defined as a section of the utility between changes in direction. If an offset(s) occurs between changes of direction it may be neglected if the distance perpendicular to the run is less than 2 feet.



Step 2. Each straight run must be braced in the transverse direction (perpendicular to the run) at each end.

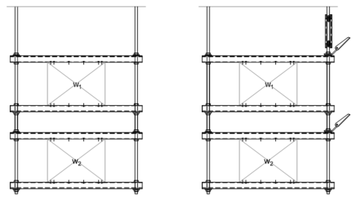


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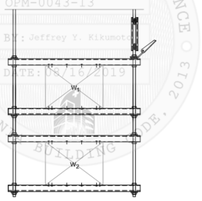
PAGE A3.0

SEISMIC BRACE REQUIREMENTS FOR DUCTWORK ON MULTI-LAYER TRAPEZES



CASE 1
IF w_{total} < 10 LB/FT, NO BRACING REQ'D

CASE 2
IF w_1 ≥ 10 LB/FT AND w_2 ≥ 10 LB/FT, BRACE EACH LAYER INDEPENDENTLY



CASE 3
IF w_{total} ≥ 10 LB/FT AND w_2 < 10 LB/FT,
BRACE TOP TRAPEZE FOR w_{total}
(BOTTOM TRAPEZE NEED NOT BE BRACED PROVIDED THE LOAD IS ACCOUNTED FOR IN THE NEAREST BRACED LAYER)

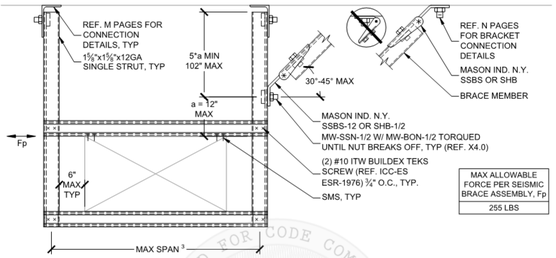
NOTES:
1) REGISTERED DESIGN PROFESSIONAL (RDP) SHALL VERIFY BRACE REQUIREMENTS LISTED ON PAGE A1.5.
2) HANGER REACTIONS SHALL BE DETERMINED FROM TOTAL DUCT WEIGHT FROM ALL LAYERS.

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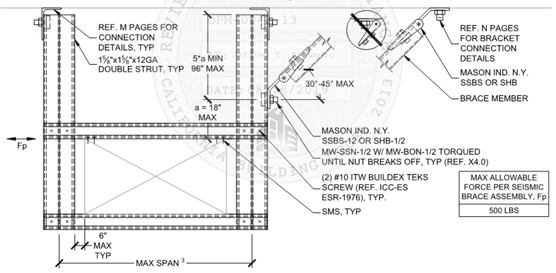
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PAGE A4.1

SEISMIC SOLID BRACING OFF STRUT HANGER TRANSVERSE OPTION FOR SUSPENDED DUCTWORK



SINGLE STRUT OPTION



DOUBLE STRUT OPTION

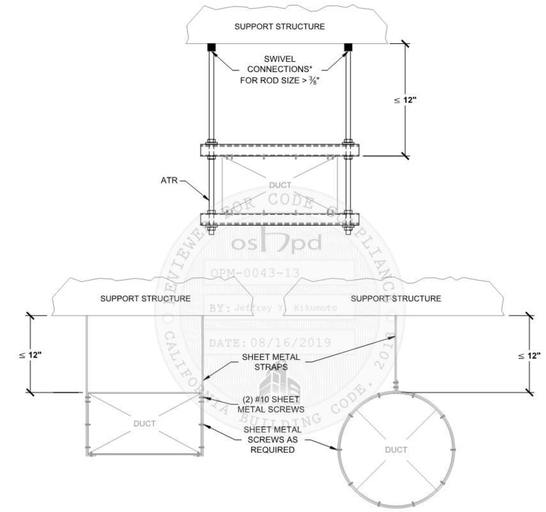
NOTES:
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2) SINGLE STRUT AND DOUBLE STRUT OPTIONS MAY CARRY UP TO A MAXIMUM OF 30LBS/FT OR 60LBS/FT, RESPECTIVELY.
3) REFER TO T PAGES FOR TRAPEZE SELECTION FOR MAX STRUT SPAN.

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PAGE A7.0

12" RULE FOR SUSPENDED DUCTWORK



*NOTE: CONNECTIONS COMPLYING INCLUDE SWIVEL JOINTS, EYE BOLTS, ETC.

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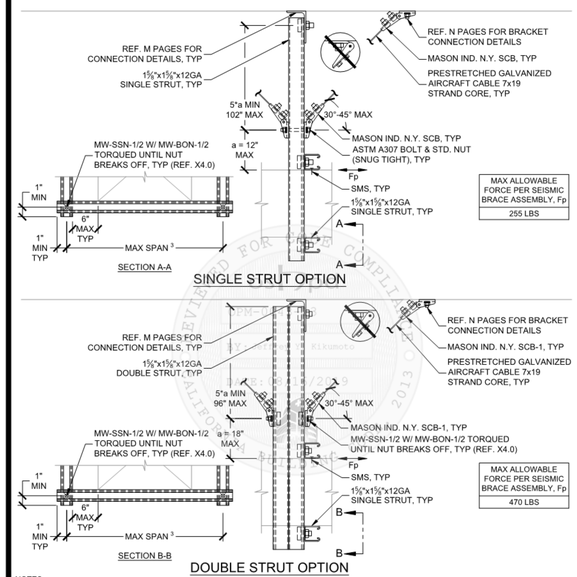
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GENERAL NOTES:

1. FOR CONNECTION TO STRUCTURE, REFER TO M OR N PAGES FROM OPM-0043-13

SEISMIC CABLE BRACING OFF STRUT HANGER LONGITUDINAL OPTION FOR SUSPENDED DUCTWORK



MAX ALLOWABLE FORCE PER SEISMIC BRACE ASSEMBLY, Fp
255 LBS

MAX ALLOWABLE FORCE PER SEISMIC BRACE ASSEMBLY, Fp
470 LBS

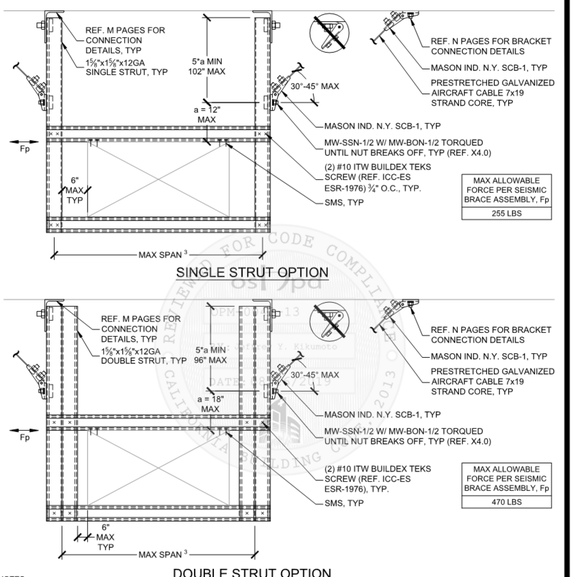
NOTES:
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2) SINGLE STRUT AND DOUBLE STRUT OPTIONS MAY CARRY UP TO A MAXIMUM OF 30LBS/FT OR 60LBS/FT, RESPECTIVELY.
3) REFER TO T PAGES FOR TRAPEZE SELECTION FOR MAX STRUT SPAN.

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PAGE **A7.3**

SEISMIC CABLE BRACING OFF STRUT HANGER TRANSVERSE OPTION FOR SUSPENDED DUCTWORK



MAX ALLOWABLE FORCE PER SEISMIC BRACE ASSEMBLY, Fp
255 LBS

MAX ALLOWABLE FORCE PER SEISMIC BRACE ASSEMBLY, Fp
470 LBS

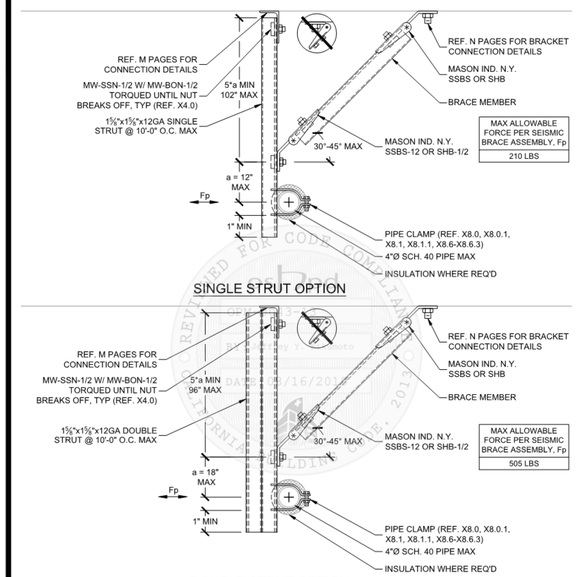
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PAGE **A7.2**

SEISMIC SOLID BRACING OFF STRUT HANGER TRANSVERSE OPTION FOR INDIVIDUALLY SUSPENDED PIPING



NOTES:
1) REFER TO APPROPRIATE C PAGES FOR DIMENSIONS AND ANNOTATIONS NOT SHOWN.

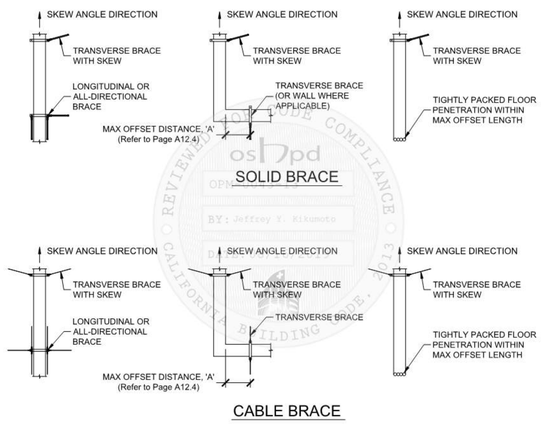
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PAGE **A18.0**

TRANSVERSE BRACE ALLOWABLE ANGLE VARIATIONS IN PLAN FOR PIPE ON TRAPEZE

THE ANGLE VARIATION MAY INCREASE BEYOND 2.5 DEGREE UP TO 15 DEGREE PROVIDED THE TRANSVERSE BRACES ARE SKEWED IN THE SAME DIRECTION AND A LONGITUDINAL BRACE OCCURS OPPOSITE THE SKEWED ANGLE DIRECTION AS SHOWN BELOW.



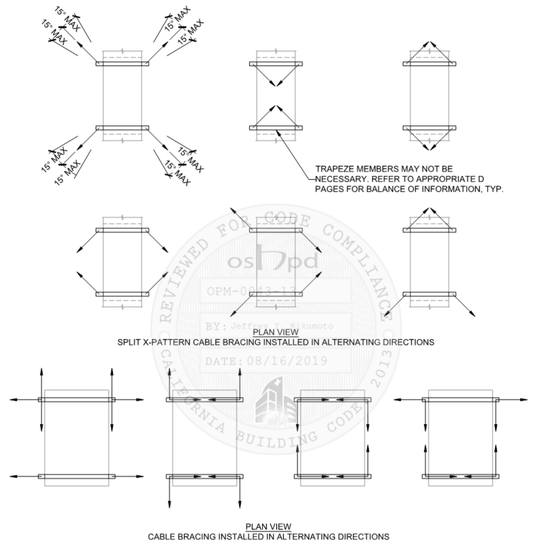
NOTE: ANY OR ALL BRACE LOCATIONS ARE PERMITTED TO USE THE ANGLE VARIATION TO MEET FIELD CONDITIONS.

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PAGE **A14.1**

ALTERNATE ARRANGEMENT OF SEISMIC BRACES FOR DUCTWORK, IN-LINE DEVICES, AND SUSPENDED EQUIPMENT



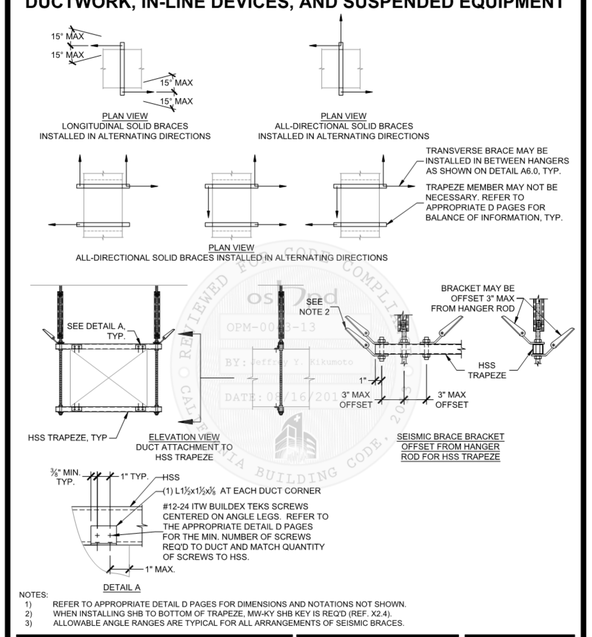
NOTES:
1) REFER TO APPROPRIATE DETAIL D PAGES FOR DIMENSIONS AND NOTATIONS NOT SHOWN.
2) ALLOWABLE ANGLE RANGES ARE TYPICAL FOR ALL ARRANGEMENTS OF SEISMIC BRACES.
3) RESULTANT FORCE SHALL NOT MEET AT A SINGLE POINT TO PREVENT ROTATION AT THE CENTER OF GRAVITY.

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PAGE **A6.2**

ALTERNATE ARRANGEMENT OF SEISMIC BRACES FOR DUCTWORK, IN-LINE DEVICES, AND SUSPENDED EQUIPMENT



NOTES:
1) REFER TO APPROPRIATE DETAIL D PAGES FOR DIMENSIONS AND NOTATIONS NOT SHOWN.
2) WHEN INSTALLING SHB TO BOTTOM OF TRAPEZE, MW-KY SHB KEY IS REQ'D (REF. X2.4).
3) ALLOWABLE ANGLE RANGES ARE TYPICAL FOR ALL ARRANGEMENTS OF SEISMIC BRACES.

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PAGE **A6.1**

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	ISSUE FOR PLANNING	15 DEC 2020
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	AGENCY APPROVAL	

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PROFESSIONAL ENGINEER — JIEFU ZHANG — PE 37890 — Exp 3/31/22 — MECHANICAL — STATE OF CALIFORNIA

Drawing Title:

HVAC SEISMIC ANCHORAGE AND SUPPORT DETAILS

Issue Date: 09/05/19
Project No.: 006240.00 Checked by: Checker

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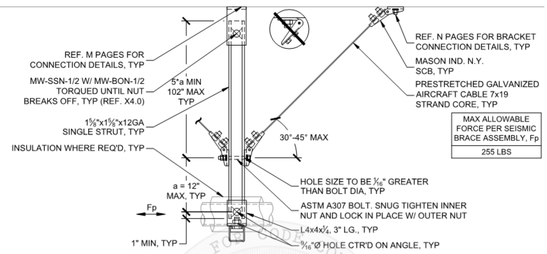
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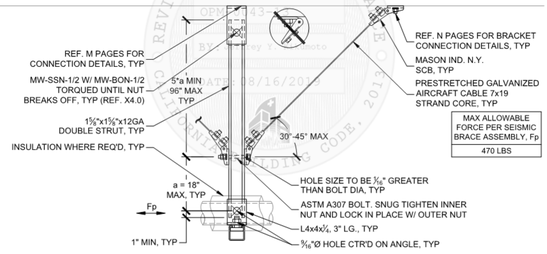
GENERAL NOTES:

1. FOR CONNECTION TO STRUCTURE, REFER TO M OR N PAGES FROM OPM-0043-13

SEISMIC CABLE BRACING OFF STRUT HANGER LONGITUDINAL OPTION FOR SUSPENDED PIPING ON TRAPEZE



SINGLE STRUT OPTION



DOUBLE STRUT OPTION

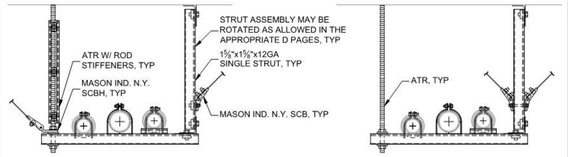
NOTES:
1) REFER TO APPROPRIATE F PAGES FOR DIMENSIONS AND ANNOTATIONS NOT SHOWN.
2) SINGLE STRUT AND DOUBLE STRUT OPTIONS MAY CARRY UP TO A MAXIMUM OF 30LBS/FT OR 60LBS/FT, RESPECTIVELY.

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PAGE **A18.7**

SEISMIC CABLE BRACING OFF STRUT HANGER TRANSVERSE OPTION FOR SUSPENDED PIPING ON TRAPEZE



ALTERNATE INSTALLATION FOR SINGLE STRUT OPTION



ALTERNATE INSTALLATION FOR DOUBLE STRUT OPTION

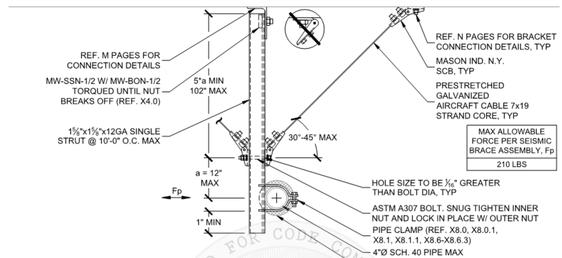
NOTES:
1) REFER TO A18.6 AND APPROPRIATE F PAGES FOR DIMENSIONS AND ANNOTATIONS NOT SHOWN.

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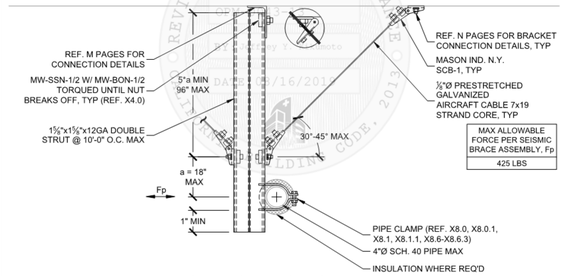
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PAGE **A18.6.1**

SEISMIC CABLE BRACING OFF STRUT HANGER TRANSVERSE OPTION FOR INDIVIDUALLY SUSPENDED PIPING



SINGLE STRUT OPTION



DOUBLE STRUT OPTION

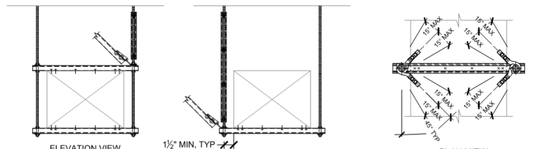
NOTES:
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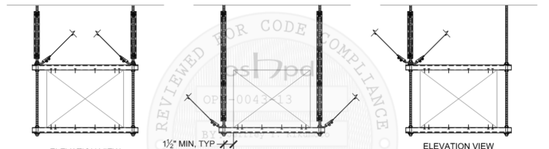
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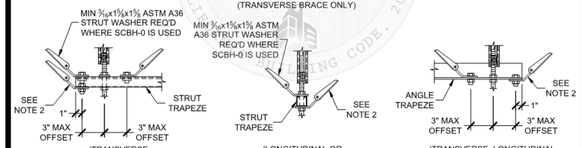
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PAGE **A18.2**

ALTERNATE ARRANGEMENT OF SEISMIC BRACES FOR DUCTWORK, IN-LINE DEVICES, AND SUSPENDED EQUIPMENT







SEISMIC BRACE BRACKET OFFSET FROM HANGER RODS

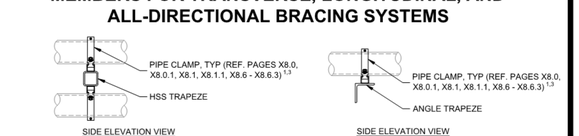
NOTES:
1) REFER TO APPROPRIATE DETAIL D PAGES FOR DIMENSIONS AND NOTATIONS NOT SHOWN.
2) WHEN INSTALLING SHB TO BOTTOM OF TRAPEZE, MW-KY SHB KEY IS REQ'D (REF. X2.4).

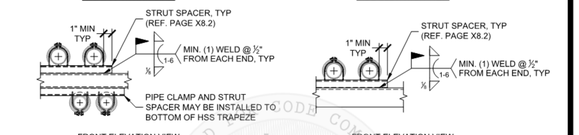
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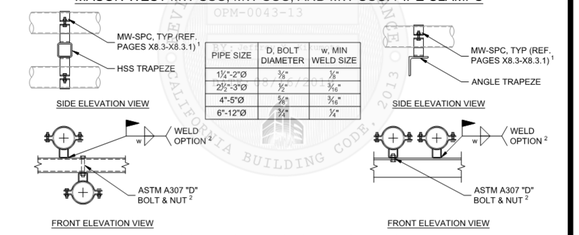
PAGE **A6.0**

ATTACHMENT OPTIONS FOR PIPING ON TRAPEZE MEMBERS FOR TRANSVERSE, LONGITUDINAL, AND ALL-DIRECTIONAL BRACING SYSTEMS





MASON WEST MW-SSC, MW-SCC, AND MW-SCCI PIPE CLAMPS



PIPE SIZE	D, BOLT DIAMETER	w, MIN WELD SIZE
1½"-2"Ø	⅜"	⅜"
2½"-3"Ø	½"	¼"
4"-5"Ø	⅝"	¼"
6"-12"Ø	¾"	½"

MASON WEST MW-SPC PIPE CLAMPS

NOTES:
1) PIPE CLAMPS MAY BE USED FOR TRANSVERSE, LONGITUDINAL, OR ALL-DIRECTIONAL BRACING SYSTEMS. REF. APPROPRIATE X8 PAGES FOR MAX Fp FORCES.
2) RDP SHALL VERIFY THE SUPPORTING TRAPEZE HAS SUFFICIENT STRENGTH AND STEEL WIDTH FOR WELD AND BOLT ATTACHMENT OPTIONS
3) MASON WEST TYPE MW-SCCI PIPE CLAMPS MAY ONLY BE USED AT TRANSVERSE LOCATIONS.

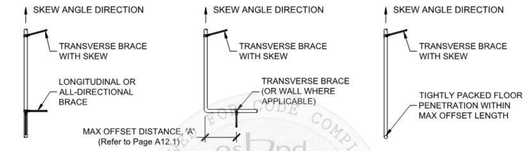
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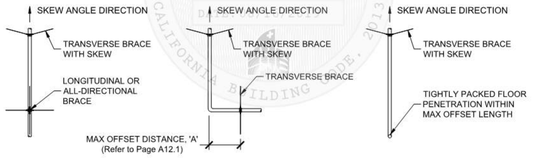
PAGE **A16.1**

TRANSVERSE BRACE ALLOWABLE ANGLE VARIATIONS IN PLAN FOR INDIVIDUALLY SUSPENDED PIPE

THE ANGLE VARIATION MAY INCREASE BEYOND 2.5 DEGREES UP TO 15 DEGREES PROVIDED THE TRANSVERSE BRACES ARE SKEWED IN THE SAME DIRECTION AND A LONGITUDINAL BRACE OCCURS OPPOSITE THE SKEWED ANGLE DIRECTION AS SHOWN BELOW.



SOLID BRACE



CABLE BRACE

NOTE: ANY OR ALL BRACE LOCATIONS ARE PERMITTED TO USE THE ANGLE VARIATION TO MEET FIELD CONDITIONS.

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	AGENCY APPROVAL	

ARCHITECT SEAL

CONSULTANT SEAL

PE 37850
Exp 3/31/22
MECHANICAL
STATE OF CALIFORNIA

Drawing Title:

HVAC SEISMIC ANCHORAGE AND SUPPORT DETAILS

Issue Date: 09/09/19
Project No.: 006240.00 Checked by: Checker

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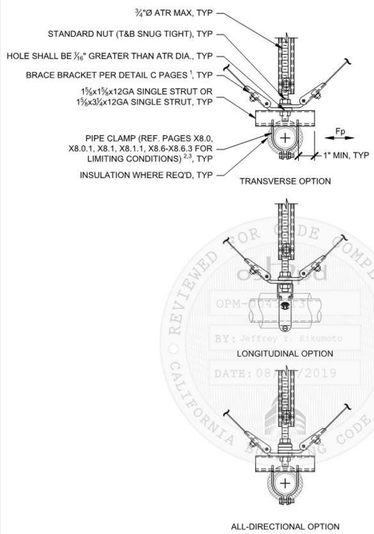
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GENERAL NOTES:

1. FOR CONNECTION TO STRUCTURE, REFER TO M OR N PAGES FROM OPM-0043-13

SEISMIC CABLE BRACING PIPE CLAMP OPTION FOR INDIVIDUALLY SUSPENDED PIPING



NOTES:
1) REFER TO APPROPRIATE DETAIL C PAGES FOR CALL-OUTS, DIMENSIONS AND NOTATIONS NOT SHOWN.
2) CLAMP RATING MAY LOWER MAX ALLOWABLE Fp.
3) MASON WEST TYPE MW-SCCI PIPE CLAMPS MAY ONLY BE USED AT TRANSVERSE LOCATIONS.

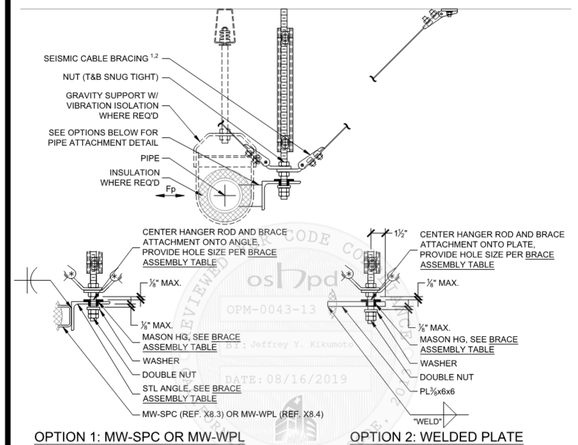
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TRANSVERSE SEISMIC CABLE BRACING OPTION FOR INDIVIDUALLY SUSPENDED PIPING



BRACE ASSEMBLY TABLE

PIPE SIZE	HANGER ROD	MASON HG	MW-SPC & STL ANGLE	MW-WPL & STL ANGLE	WELD	HOLE SIZE
1½"Ø - 2"Ø	⅜	HG-38	L3x2x5/16, LLH, 2" LG.	L3x2x5/16, LLH, 3" LG.	⅛	⅝
2½"Ø - 3"Ø	½	HG-50	L4x3x5/16, LLH, 2" LG.	L4x3x5/16, LLH, 3" LG.	3/16	¾
4"Ø - 5"Ø	⅝	HG-63	L4x3x5/16, LLH, 2" LG.	L4x3x5/16, LLH, 4" LG.	3/16	⅞
6"Ø - 8"Ø	¾	HG-75	L4x3x5/16, LLH, 3" LG.	L4x4x¼, 4" LG.	¼	1
10"Ø - 12"Ø	¾	HG-75	L4x4x¼, 3" LG.	L4x4x¼, 5" LG.	5/16	1
14"Ø - 18"Ø	1	HG-100	N/A	L5x5x5/16, 6" LG.	3/16	1¼
20"Ø - 24"Ø	1¼	HG-125	N/A	L5x5x5/16, 7" LG.	3/16	1½

NOTES:
1) REFER TO APPROPRIATE DETAIL C PAGES FOR CALL-OUTS, DIMENSIONS, AND NOTATIONS NOT SHOWN.
2) SEISMIC BRACING DOES NOT NEED TO BE LOCATED AT GRAVITY SUPPORT LOCATIONS, BUT SHALL SATISFY BRACING LAYOUT REQUIREMENTS AS DEFINED IN SECTION A10.

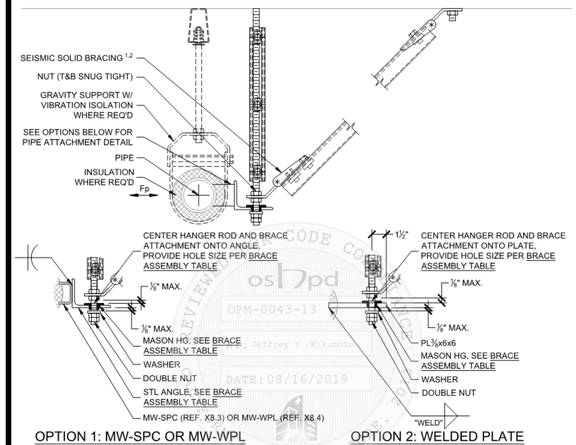
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TRANSVERSE SEISMIC SOLID BRACING OPTION FOR INDIVIDUALLY SUSPENDED PIPING



BRACE ASSEMBLY TABLE

PIPE SIZE	HANGER ROD	MASON HG	MW-SPC & STL ANGLE	MW-WPL & STL ANGLE	WELD	HOLE SIZE
1½"Ø - 2"Ø	⅜	HG-38	L3x2x5/16 LLH, 2" LG.	L3x2x5/16 LLH, 3" LG.	⅛	⅝
2½"Ø - 3"Ø	½	HG-50	L4x3x5/16 LLH, 2" LG.	L4x3x5/16 LLH, 3" LG.	3/16	¾
4"Ø - 5"Ø	⅝	HG-63	L4x3x5/16 LLH, 2" LG.	L4x3x5/16 LLH, 4" LG.	3/16	⅞
6"Ø - 8"Ø	¾	HG-75	L4x3x5/16 LLH, 3" LG.	L4x4x5/16, 4" LG.	¼	1
10"Ø - 12"Ø	¾	HG-75	L4x4x5/16, 3" LG.	L4x4x5/16, 5" LG.	5/16	1
14"Ø - 18"Ø	1	HG-100	N/A	L5x5x5/16, 6" LG.	3/16	1¼
20"Ø - 24"Ø	1¼	HG-125	N/A	L5x5x5/16, 7" LG.	3/16	1½

NOTES:
1) REFER TO APPROPRIATE DETAIL C PAGES FOR CALL-OUTS, DIMENSIONS, AND NOTATIONS NOT SHOWN.
2) SEISMIC BRACING DOES NOT NEED TO BE LOCATED AT GRAVITY SUPPORT LOCATIONS, BUT SHALL SATISFY BRACING LAYOUT REQUIREMENTS AS DEFINED IN SECTION A10.

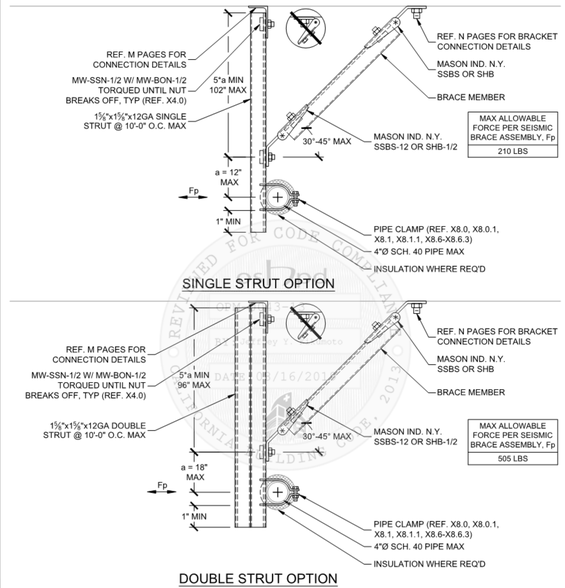
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SEISMIC SOLID BRACING OFF STRUT HANGER TRANSVERSE OPTION FOR INDIVIDUALLY SUSPENDED PIPING



NOTES:
1) REFER TO APPROPRIATE C PAGES FOR DIMENSIONS AND ANNOTATIONS NOT SHOWN.

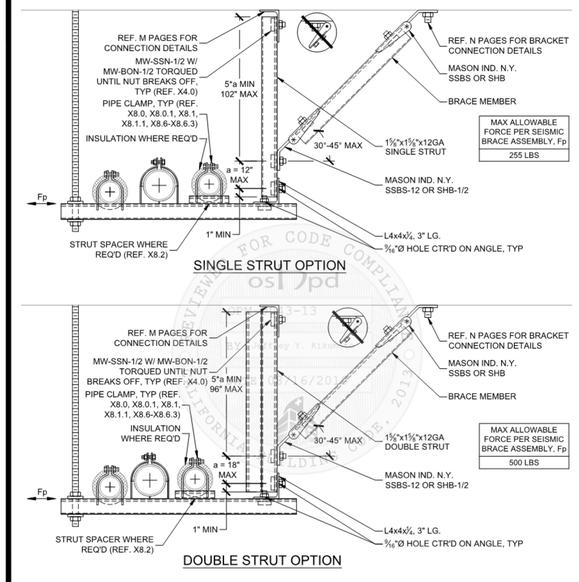
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SEISMIC SOLID BRACING OFF STRUT HANGER TRANSVERSE OPTION FOR SUSPENDED PIPING ON TRAPEZE



NOTES:
1) REFER TO APPROPRIATE F PAGES FOR DIMENSIONS AND ANNOTATIONS NOT SHOWN.
2) SINGLE STRUT AND DOUBLE STRUT OPTIONS MAY CARRY UP TO A MAXIMUM OF 30LBS/FT OR 60LBS/FT, RESPECTIVELY.

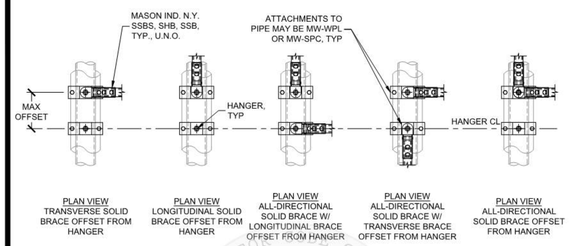
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08/16/2019 OPM-0043-13: Reviewed for Code Compliance by Jeffrey Kikumoto Page 89 of 812

ALTERNATE ARRANGEMENT OF SEISMIC BRACES FOR INDIVIDUALLY SUSPENDED CAST IRON PIPING





PIPE DIA.	MAX OFFSET
2" - 3"	10"
4" - 12"	12"

NOTES:
1) REFER TO APPROPRIATE DETAIL C PAGES FOR DIMENSIONS AND NOTATIONS NOT SHOWN.
2) MAX OFFSETS ARE BASED ON CAST IRON PIPE CONSTRUCTED TO ASTM A 888 OR CISPI 301 STANDARDS WITH A MINIMUM TENSILE STRENGTH OF 21,000 PSI.

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PAGE **A15.4**

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	ISSUE FOR PLAN REVIEW	27 OCT 2021
	ISSUE FOR PLANNING	15 DEC 2020
	ISSUE FOR GRADING PERMIT	03 DEC 2020
	AGENCY APPROVAL	

ARCHITECT SEAL

CONSULTANT SEAL

REGISTERED PROFESSIONAL ENGINEER — JEFFREY Y. KIKUMOTO — PE 37660 — exp 3/31/22 — MECHANICAL — STATE OF CALIFORNIA

Drawing Title:

HVAC SEISMIC ANCHORAGE AND SUPPORT DETAILS

Issue Date: 09/09/19
Project No.: 006240.00 Checked by: Checker

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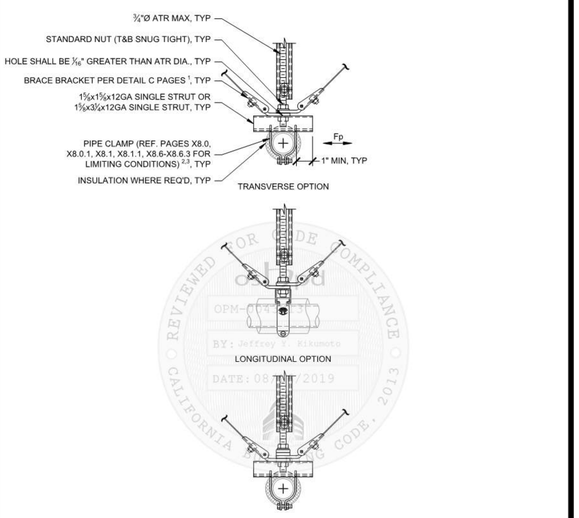
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GENERAL NOTES:

1. FOR CONNECTION TO STRUCTURE, REFER TO M OR N PAGES FROM OPM-0043-13

SEISMIC CABLE BRACING PIPE CLAMP OPTION FOR INDIVIDUALLY SUSPENDED PIPING



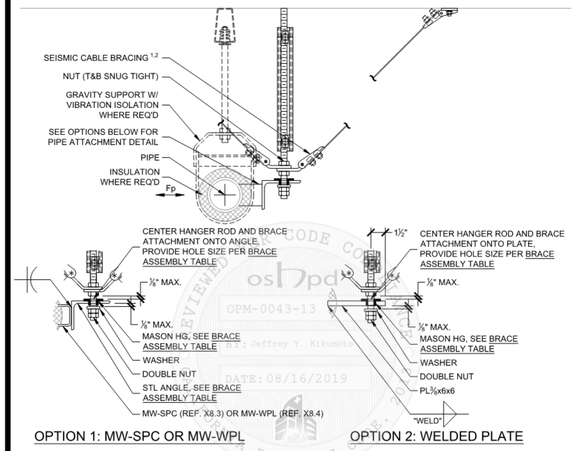
NOTES:
1) REFER TO APPROPRIATE DETAIL C PAGES FOR CALL-OUTS, DIMENSIONS AND NOTATIONS NOT SHOWN.
2) CLAMP RATING MAY LOWER MAX ALLOWABLE Fp.
3) MASON WEST TYPE MW-SCCI PIPE CLAMPS MAY ONLY BE USED AT TRANSVERSE LOCATIONS.

MASON WEST, INC.
1601 E. Miraloma Ave. Placentia, CA 92870
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California SE No. S5270

PAGE **A19.1**

TRANSVERSE SEISMIC CABLE BRACING OPTION FOR INDIVIDUALLY SUSPENDED PIPING



OPTION 1: MW-SPC OR MW-WPL OPTION 2: WELDED PLATE

BRACE ASSEMBLY TABLE						
PIPE SIZE	HANGER ROD	MASON HG	MW-SPC & STL ANGLE	MW-WPL & STL ANGLE	WELD	HOLE SIZE
1½"Ø - 2"Ø	⅜	HG-38	L3x2x5/16 LLH, 2" LG.	L3x2x5/16 LLH, 3" LG.	⅛	7/16
2½"Ø - 3"Ø	½	HG-50	L4x3x5/16 LLH, 2" LG.	L4x3x5/16 LLH, 3" LG.	3/16	¼
4"Ø - 5"Ø	⅝	HG-63	L4x3x5/16 LLH, 2" LG.	L4x3x5/16 LLH, 4" LG.	3/16	⅝
6"Ø - 8"Ø	¾	HG-75	L4x3x5/16 LLH, 3" LG.	L4x4x¼, 4" LG.	¼	1
10"Ø - 12"Ø	¾	HG-75	L4x4x¼, 3" LG.	L4x4x¼, 5" LG.	3/16	1
14"Ø - 18"Ø	1	HG-100	N/A	L5x5x5/16, 6" LG.	3/16	1¼
20"Ø - 24"Ø	1¼	HG-125	N/A	L5x5x5/16, 7" LG.	3/16	1½

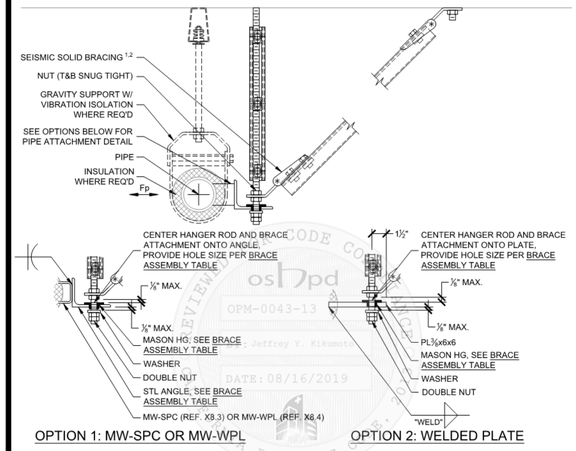
NOTES:
1) REFER TO APPROPRIATE DETAIL C PAGES FOR CALL-OUTS, DIMENSIONS, AND NOTATIONS NOT SHOWN.
2) SEISMIC BRACING DOES NOT NEED TO BE LOCATED AT GRAVITY SUPPORT LOCATIONS, BUT SHALL SATISFY BRACING LAYOUT REQUIREMENTS AS DEFINED IN SECTION A10.

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PAGE **A19.5**

TRANSVERSE SEISMIC SOLID BRACING OPTION FOR INDIVIDUALLY SUSPENDED PIPING



OPTION 1: MW-SPC OR MW-WPL OPTION 2: WELDED PLATE

BRACE ASSEMBLY TABLE						
PIPE SIZE	HANGER ROD	MASON HG	MW-SPC & STL ANGLE	MW-WPL & STL ANGLE	WELD	HOLE SIZE
1½"Ø - 2"Ø	⅜	HG-38	L3x2x5/16 LLH, 2" LG.	L3x2x5/16 LLH, 3" LG.	⅛	7/16
2½"Ø - 3"Ø	½	HG-50	L4x3x5/16 LLH, 2" LG.	L4x3x5/16 LLH, 3" LG.	3/16	¼
4"Ø - 5"Ø	⅝	HG-63	L4x3x5/16 LLH, 2" LG.	L4x3x5/16 LLH, 4" LG.	3/16	⅝
6"Ø - 8"Ø	¾	HG-75	L4x3x5/16 LLH, 3" LG.	L4x4x¼, 4" LG.	¼	1
10"Ø - 12"Ø	¾	HG-75	L4x4x¼, 3" LG.	L4x4x¼, 5" LG.	3/16	1
14"Ø - 18"Ø	1	HG-100	N/A	L5x5x5/16, 6" LG.	3/16	1¼
20"Ø - 24"Ø	1¼	HG-125	N/A	L5x5x5/16, 7" LG.	3/16	1½

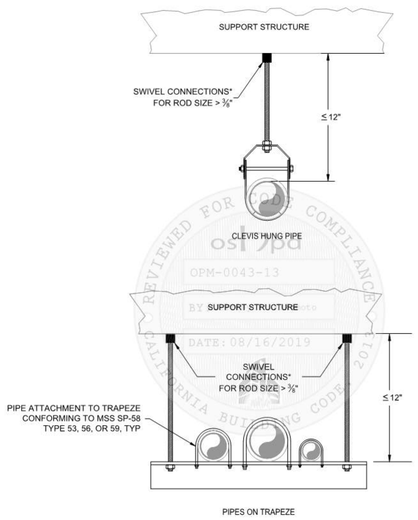
NOTES:
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PAGE **A19.2**

12" RULE FOR SUSPENDED PIPING



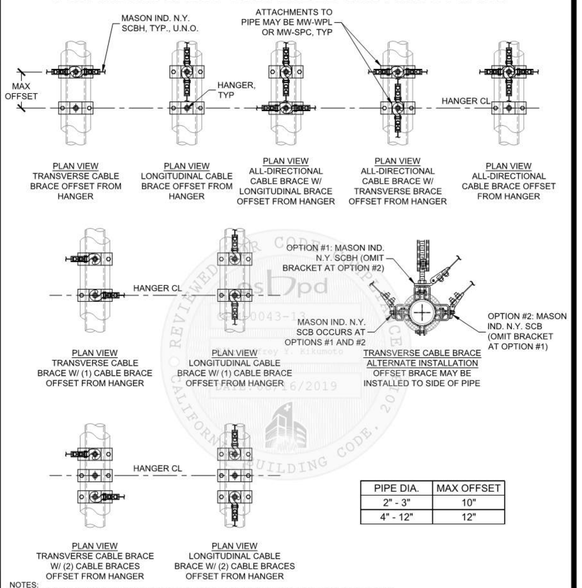
*NOTE: CONNECTIONS COMPLYING INCLUDE SWIVEL JOINTS, EYE BOLTS, ETC.

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PAGE **A13.0**

ALTERNATE ARRANGEMENT OF SEISMIC BRACES FOR INDIVIDUALLY SUSPENDED CAST IRON PIPING



PIPE DIA.	MAX OFFSET
2" - 3"	10"
4" - 12"	12"

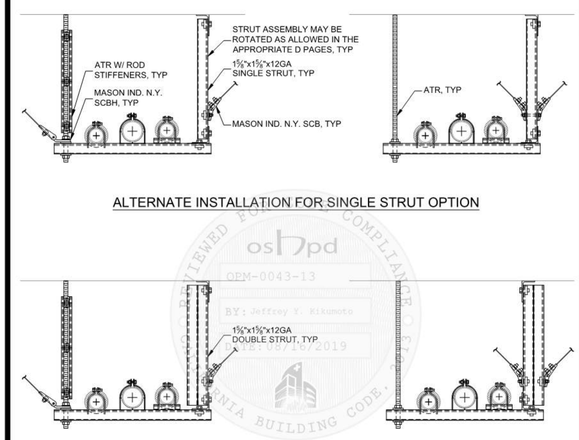
NOTES:
1) REFER TO APPROPRIATE DETAIL C PAGES FOR DIMENSIONS AND NOTATIONS NOT SHOWN.
2) MAX OFFSETS ARE BASED ON CAST IRON PIPE CONSTRUCTED TO ASTM A 888 OR CISPI 301 STANDARDS WITH A MINIMUM TENSILE STRENGTH OF 21,000 PSI.

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PAGE **A15.5**

SEISMIC CABLE BRACING OFF STRUT HANGER TRANSVERSE OPTION FOR SUSPENDED PIPING ON TRAPEZE



NOTES:
1) REFER TO A18.6 AND APPROPRIATE F PAGES FOR DIMENSIONS AND ANNOTATIONS NOT SHOWN.

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PE 37650
Exp 3/31/22
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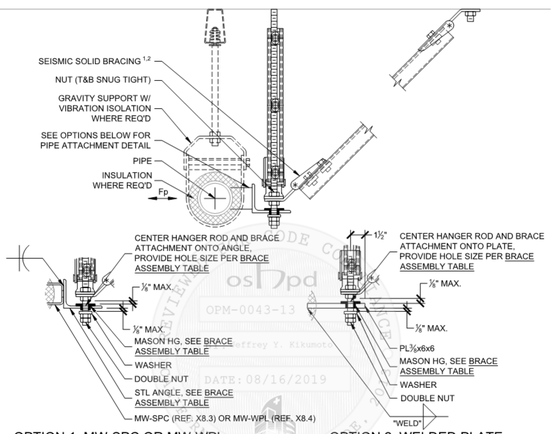
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GENERAL NOTES:

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ALL-DIRECTIONAL SEISMIC SOLID BRACING OPTION FOR INDIVIDUALLY SUSPENDED PIPING



OPTION 1: MW-SPC OR MW-WPL OPTION 2: WELDED PLATE

BRACE ASSEMBLY TABLE						
PIPE SIZE	HANGER ROD	MASON HG	MW-SPC & STL ANGLE	MW-WPL & STL ANGLE	WELD	HOLE SIZE
1½"Ø - 2"Ø	⅜	HG-38	L3x2x¼ LLH, 2" LG.	L3x2x¼ LLH, 3" LG.	⅛	⅝
2½"Ø - 3"Ø	½	HG-50	L4x3x¼ LLH, 2" LG.	L4x3x¼ LLH, 3" LG.	3/16	¾
4"Ø - 5"Ø	⅝	HG-63	L4x3x¼ LLH, 2" LG.	L4x3x¼ LLH, 4" LG.	3/16	⅞
6"Ø - 8"Ø	¾	HG-75	L4x3x¼ LLH, 3" LG.	L4x4x¼, 4" LG.	¼	1
10"Ø - 12"Ø	¾	HG-75	L4x4x¼, 3" LG.	L4x4x¼, 5" LG.	5/16	1
14"Ø - 18"Ø	1	HG-100	N/A	L5x5x5/16, 6" LG.	5/16	1¼
20"Ø - 24"Ø	1¼	HG-125	N/A	L5x5x5/16, 7" LG.	5/16	1½

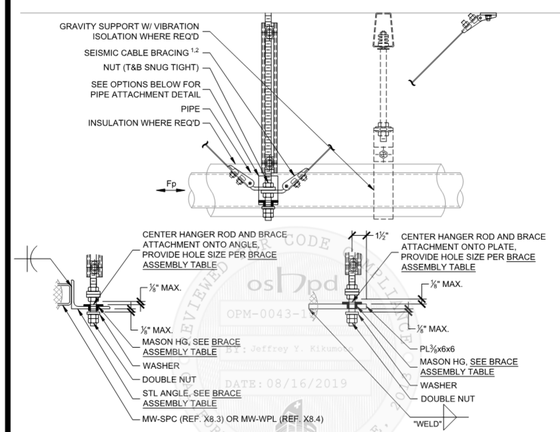
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PAGE **A19.4**

LONGITUDINAL SEISMIC CABLE BRACING OPTION FOR INDIVIDUALLY SUSPENDED PIPING



OPTION 1: MW-SPC OR MW-WPL OPTION 2: WELDED PLATE

BRACE ASSEMBLY TABLE						
PIPE SIZE	HANGER ROD	MASON HG	MW-SPC & STL ANGLE	MW-WPL & STL ANGLE	WELD	HOLE SIZE
1½"Ø - 2"Ø	⅜	HG-38	L3x2x¼ LLH, 2" LG.	L3x2x¼ LLH, 3" LG.	⅛	⅝
2½"Ø - 3"Ø	½	HG-50	L4x3x¼ LLH, 2" LG.	L4x3x¼ LLH, 3" LG.	3/16	¾
4"Ø - 5"Ø	⅝	HG-63	L4x3x¼ LLH, 2" LG.	L4x3x¼ LLH, 4" LG.	3/16	⅞
6"Ø - 8"Ø	¾	HG-75	L4x3x¼ LLH, 3" LG.	L4x4x¼, 4" LG.	¼	1
10"Ø - 12"Ø	¾	HG-75	L4x4x¼, 3" LG.	L4x4x¼, 5" LG.	5/16	1
14"Ø - 18"Ø	1	HG-100	N/A	L5x5x5/16, 6" LG.	5/16	1¼
20"Ø - 24"Ø	1¼	HG-125	N/A	L5x5x5/16, 7" LG.	5/16	1½

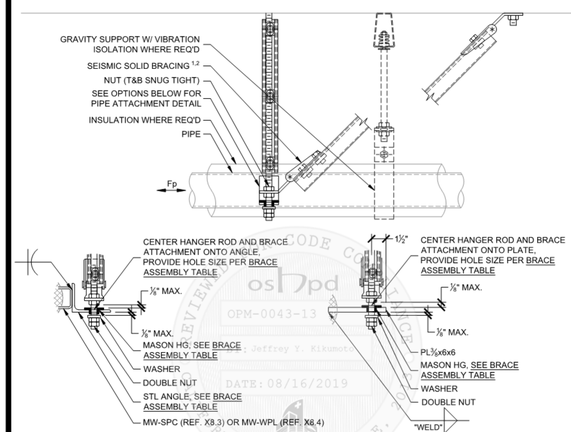
NOTES:
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PAGE **A19.6**

LONGITUDINAL SEISMIC SOLID BRACING OPTION FOR INDIVIDUALLY SUSPENDED PIPING



OPTION 1: MW-SPC OR MW-WPL OPTION 2: WELDED PLATE

BRACE ASSEMBLY TABLE						
PIPE SIZE	HANGER ROD	MASON HG	MW-SPC & STL ANGLE	MW-WPL & STL ANGLE	WELD	HOLE SIZE
1½"Ø - 2"Ø	⅜	HG-38	L3x2x¼ LLH, 2" LG.	L3x2x¼ LLH, 3" LG.	⅛	⅝
2½"Ø - 3"Ø	½	HG-50	L4x3x¼ LLH, 2" LG.	L4x3x¼ LLH, 3" LG.	3/16	¾
4"Ø - 5"Ø	⅝	HG-63	L4x3x¼ LLH, 2" LG.	L4x3x¼ LLH, 4" LG.	3/16	⅞
6"Ø - 8"Ø	¾	HG-75	L4x3x¼ LLH, 3" LG.	L4x4x¼, 4" LG.	¼	1
10"Ø - 12"Ø	¾	HG-75	L4x4x¼, 3" LG.	L4x4x¼, 5" LG.	5/16	1
14"Ø - 18"Ø	1	HG-100	N/A	L5x5x5/16, 6" LG.	5/16	1¼
20"Ø - 24"Ø	1¼	HG-125	N/A	L5x5x5/16, 7" LG.	5/16	1½

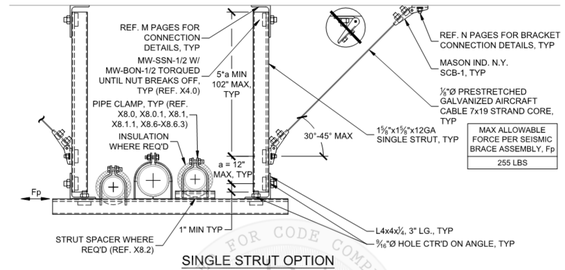
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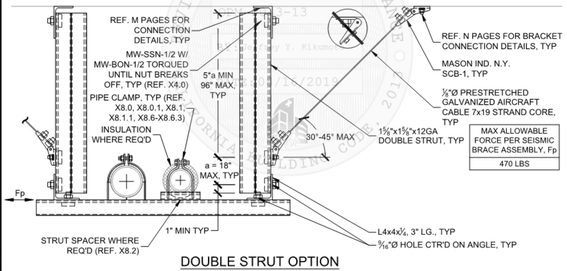
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California SE No. S5270

PAGE **A19.3**

SEISMIC CABLE BRACING OFF STRUT HANGER TRANSVERSE OPTION FOR SUSPENDED PIPING ON TRAPEZE



SINGLE STRUT OPTION



DOUBLE STRUT OPTION

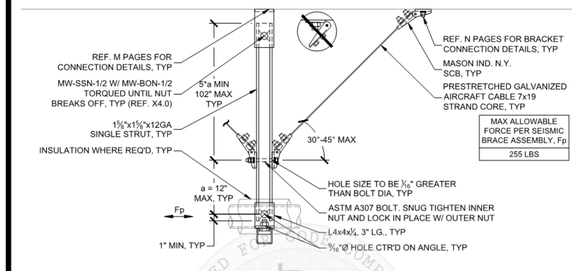
NOTES:
1) REFER TO APPROPRIATE F PAGES FOR DIMENSIONS AND ANNOTATIONS NOT SHOWN.
2) SINGLE STRUT AND DOUBLE STRUT OPTIONS MAY CARRY UP TO A MAXIMUM OF 30LBS/FT OR 60LBS/FT, RESPECTIVELY.
3) REF. A18.6.1 FOR ALTERNATE INSTALLATION OPTIONS.

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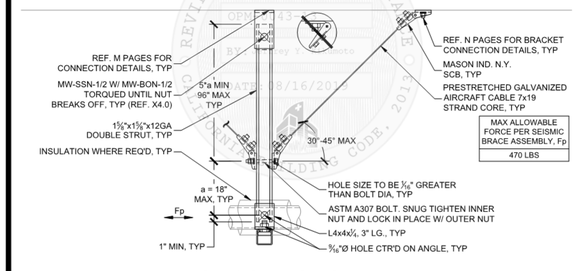
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California SE No. S5270

PAGE **A18.6**

SEISMIC CABLE BRACING OFF STRUT HANGER LONGITUDINAL OPTION FOR SUSPENDED PIPING ON TRAPEZE



SINGLE STRUT OPTION



DOUBLE STRUT OPTION

NOTES:
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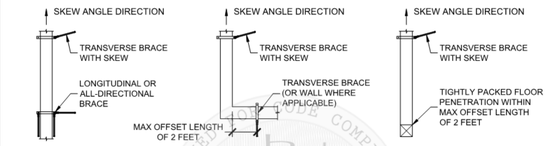
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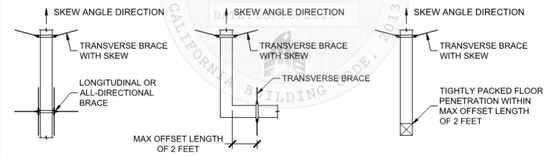
PAGE **A18.7**

TRANSVERSE BRACE ALLOWABLE ANGLE VARIATIONS IN PLAN FOR DUCTWORK

THE ANGLE VARIATION MAY INCREASE BEYOND 2.5 DEGREES UP TO 15 DEGREES PROVIDED THE TRANSVERSE BRACES ARE SKEWED IN THE SAME DIRECTION AND A LONGITUDINAL BRACE OCCURS OPPOSITE THE SKEWED ANGLE DIRECTION AS SHOWN BELOW.



SOLID BRACE



CABLE BRACE

NOTE: ANY OR ALL BRACE LOCATIONS ARE PERMITTED TO USE THE ANGLE VARIATION TO MEET FIELD CONDITIONS.

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PAGE **A5.0**

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1 LEVEL 01 - HVAC ZONING PLAN
1/8" = 1'-0"

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Project No.: 006240.00 Checked by: Checker

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GENERAL DEMOLITION NOTES:

A. REMOVE ALL ELECTRICAL EQUIPMENT ON OR IN EXISTING WALLS, CEILINGS AND PARTITIONS WHICH ARE TO BE DEMOLISHED. REMOVE ALL EXPOSED PORTIONS OF BRANCH CIRCUIT AND CONTROL VOLTAGE WIRING AND CONDUITS.

B. WHERE EXISTING WALLS ARE TO REMAIN, REMOVE ALL EXPOSED RACEWAYS, SURFACE AND RECESSED OUTLET BOXES, ETC. WHICH ARE NOT TO BE REUSED. WHERE NEW CONDUITS AND OUTLETS ARE TO BE ADDED TO EXISTING WALLS IN FINISHED ROOMS, THEY SHALL BE CONCEALED BY CUTTING AND PATCHING THE WALLS.

C. UTILIZE EXISTING OUTLET BOXES AND RACEWAY SYSTEMS WHEREVER PRACTICAL IN RENOVATION AREAS. WHERE SUCH EXISTING OUTLET BOXES ARE USED, INSTALL NEW WIRING DEVICES, COVERPLATES, AND WIRING. SPECIAL COVERPLATES MAY BE REQUIRED TO SUIT CONDITIONS.

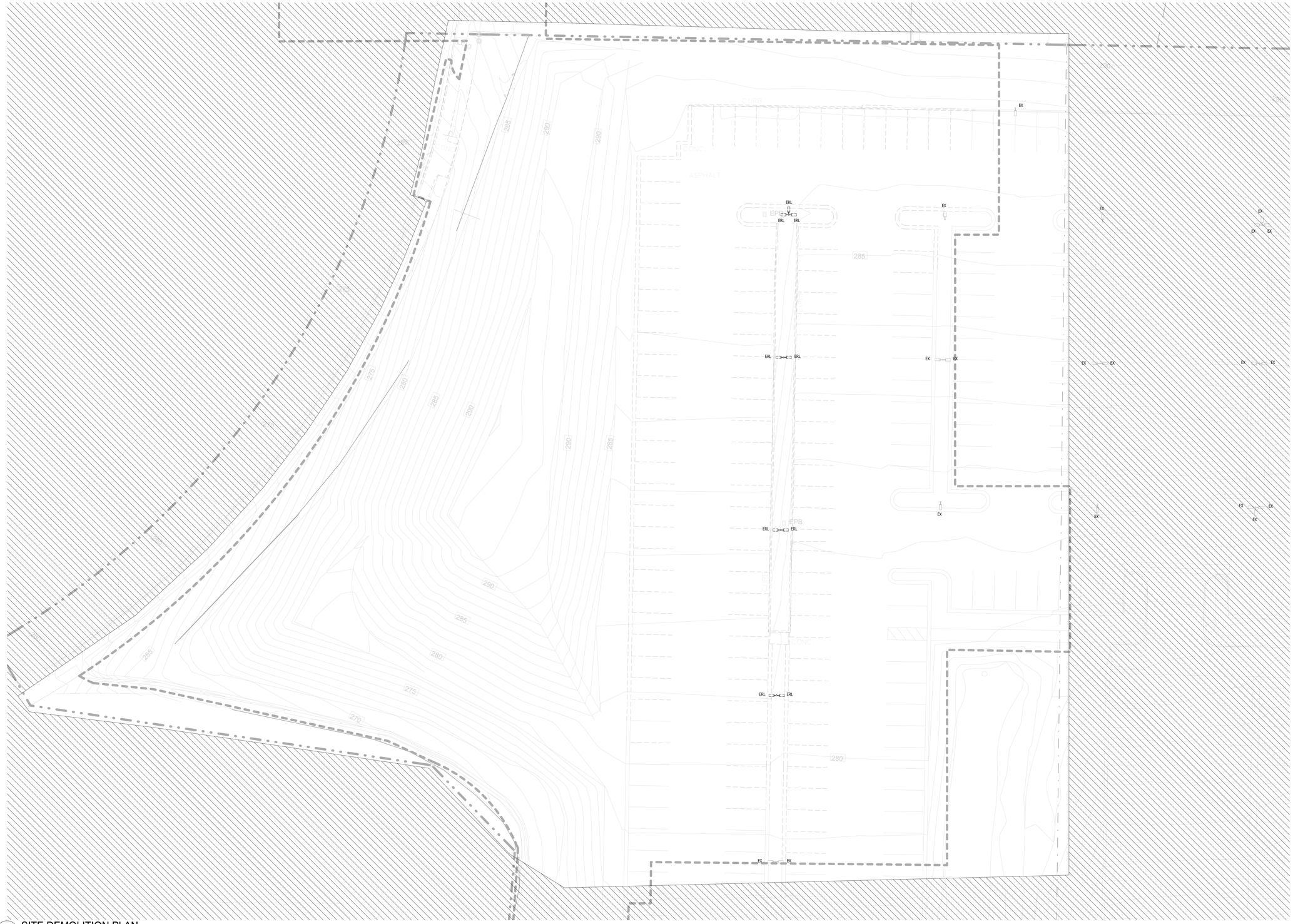
D. REARRANGE EXISTING CONDUITS AND WIRING TO ACCOMMODATE NEW CIRCUIT ARRANGEMENTS INDICATED AND TO MAINTAIN CONTINUITY OF EXISTING CIRCUITS FEEDING DEVICES THAT ARE TO REMAIN.

E. BE RESPONSIBLE TO REMOVE AND REINSTALL EXISTING ELECTRICAL EQUIPMENT TO ACCOMMODATE THE WORK OF OR DISTURBED BY ALL TRADES.

F. STOCKPILE REMOVED LUMINAIRES, POWER AND COMMUNICATION DEVICES ON JOB SITE FOR REUSE UNTIL TIME OR PROJECT CLOSEOUT, THEN REMOVE THOSE FROM SITE THAT THE OWNER DOES NOT WISH TO SALVAGE.

G. EXISTING DEVICE LOCATIONS WERE IDENTIFIED AS COMPLETELY AS POSSIBLE BY A SITE SURVEY AND BY RECORD DOCUMENTS AS AVAILABLE. BE RESPONSIBLE FOR PROPER DEMOLITION AND REWORK OF DEVICES NOT SHOWN ON DRAWINGS TO CONFORM WITH INTENT OF DOCUMENTS.

H. REFEED EXISTING LIGHTING WHICH MAY BECOME DISCONNECTED DUE TO DEMOLITION. REFEED FROM NEAREST ENERGIZED POLE.



1 SITE DEMOLITION PLAN
1/16" = 1'-0"

N

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Rev.	Description	Date
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SITE DEMOLITION PLAN

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'E' SERIES GENERAL NOTES

A. FOR EXACT LOCATION AND FINISH SURFACE CONDITIONS OF CEILING, WALL, FLOOR AND GRADE MOUNTED DEVICES, REFER TO ARCHITECTURAL AND LANDSCAPE DRAWINGS.

B. FOR EXACT LOCATION OF FACILITY EXPANSION JOINTS, FIRE RATED WALLS AND SMOKE WALLS, REFER TO ARCHITECTURAL DRAWINGS.

C. FOR EXACT LOCATIONS OF DUCT MOUNTED SMOKE DETECTORS, WATER FLOW SWITCHES AND TAMPER SWITCHES REFER TO HVAC / FP DRAWINGS.

D. VERIFY EXACT LOCATION OF CONNECTION POINTS PRIOR TO CONNECTION.

E. MOUNTING HEIGHTS ARE TO CENTER OF DEVICE OR EQUIPMENT, UNO.

F. PROVIDE RACEWAY, WIRE AND CABLE, ASSOCIATED FITTINGS AND CONNECTORS, AND COMPLETE CONNECTIONS REQUIRED FOR DESIGNATED BRANCH CIRCUITS FROM DEVICE(S) TO FINAL OVERCURRENT DEVICE AND TO LOCAL CONTROL DEVICE(S) PER SPECIFICATIONS.

G. MINIMUM BRANCH CIRCUIT WIRE SIZE SHALL BE #12 AWG EXCEPT LIFE SAFETY BRANCH CIRCUIT WIRING WHICH SHALL BE MINIMUM #10 AWG. MAINTAIN MAXIMUM BRANCH CIRCUIT CONDUCTOR LENGTHS AS PER SPECIFICATIONS AND SCHEDULED ON THIS DRAWING. INCLUDE GROUND CONDUCTOR DERATINGS.

H. PROVIDE GROUNDING PER CEC. ALSO PROVIDE GREEN GROUND WIRE IN ALL BRANCH AND FEEDER CIRCUITS SIZED PER CEC.

I. THE SPACE ABOVE THE CEILING IS LIMITED AND THE INSTALLATION OF WORK WILL BE TIGHT. DUE TO THIS, IT IS IMPORTANT THAT THE TRADE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THEIR WORK (IE: DUCTWORK, TERMINAL UNITS, PIPING, ETC) WITH THE EXISTING CEILING SYSTEM HEIGHT AND CONSTRUCTION, THE STRUCTURAL SYSTEM, THE LIGHTING FIXTURES, THE SPRINKLER HEADS/MAINS, AND THE PLUMBING PIPES. ROUTE DUCTWORK AND PIPING AS HIGH AS POSSIBLE. LOCATE TERMINAL UNITS BETWEEN STRUCTURAL BEAMS AND MAINTAIN PROPER SERVICE ACCESS CLEARANCES.

J. DO NOT INSTALL ANY NEW WORK DIRECTLY ABOVE ANY ELECTRICAL PANELS AND TRANSFORMERS.

K. CIRCUIT NUMBERS SHOWN FOR EQUIPMENT WIRED TO EXISTING PANELBOARD(S) IS SHOWN FOR DESIGN INTENT ONLY AND MAY NOT CORRESPOND TO ACTUAL CIRCUIT BREAKER MOUNTING POSITION IN THE PANEL. UPDATE THE AS-BUILT DRAWINGS WITH THE ACTUAL CIRCUIT NUMBERS USED TO CORRESPOND TO THE PANEL DIRECTORY.

L. CONFIRM ALL LABELS AND ROOM NUMBERS WITH OWNER PRIOR TO FINALIZING LABELING AND PROGRAMMING.

M. COORDINATE FINAL OUTLET LOCATION WITH ALL TRADES AND FURNITURE/MILLWORK PLACEMENT PRIOR TO ROUGH-IN.

N. INSTALL DATA OUTLETS 6" AWAY FROM ASSOCIATED ELECTRICAL OUTLET.

ABBREVIATIONS

A	AMPERE
AC	ARMOR CLAD CABLE
AF	AMP FRAME
AFCI	ARC-FAULT CIRCUIT INTERRUPTING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFU	AMP FUSE
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
AM	AMMETER
ANN	ANNUNCIATOR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AS	AMP SENSOR
ASW	AMP SWITCH
AV	AUDIO VISUAL
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BDF	BUILDING DISTRIBUTION FRAME
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
BKBD	BACKBOARD
BKR	BREAKER
BPS	BOLTED PRESSURE SWITCH
C	CONDUIT
CAT	CATALOG
CATV	CABLE ANTENNA TELEVISION
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CEC	CALIFORNIA ELECTRICAL CODE
CKT	CIRCUIT
CLG	CEILING
CM	CONSTRUCTION MANAGER
CO	COMPANY
COAX	COAXIAL
CT	CURRENT TRANSFORMER
CTTS	CLOSE TRANSITION TRANSFER SWITCH
CU	COPPER
DC	DIRECT CURRENT
DHCP	DYNAMIC HOST CONFIGURATION PROTOCOL
DIA	DIAMETER
DIV	DIVISION
DN	DOWN
DO	DRAWOUT
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
DS	DISCONNECT SWITCH
DSP	DIGITAL SIGNAL PROCESSOR
DVD	DIGITAL VERSATILE DISC
DVR	DIGITAL VIDEO RECORDER
DVS	DIGITAL VIDEO SURVEILLANCE
DWG	DRAWING
EA	EACH
EF	EXHAUST FAN
EGS	ENGINE-GENERATOR SET
ELEC	ELECTRIC
ELEV	ELEVATOR
EMT	ELECTRICAL METALLIC TUBING
EO	EQUIPMENT BY OWNER
EOL	END OF LINE DEVICE
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXP	EXPLOSION PROOF
FA	FIRE ALARM
FACU	FIRE ALARM CONTROL UNIT
FBO	FURNISHED BY OWNER
FI	FILM ILLUMINATOR
FLR	FLOOR
FLUOR	FLUORESCENT
FPS	FRAMES PER SECOND
FPU	FIELD PROCESSING UNIT
FS	FUSED SWITCH
FTL	FEED THRU LUGS
GA	GAUGE
Gb	GIGABIT
GE	GROUNDING EQUALIZER CONDUCTOR
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTING
GFI	GROUND FAULT INTERRUPTING
GFR	GROUND FAULT RELAY
GFRT	GROUND FAULT RELAY TEST PANEL
GND	GROUND
HCT	HARMONIC CONDITIONING TRANSFORMER
HF	HARMONIC FILTER
HFT	HARMONIC FILTER WITH INTEGRAL TRANSFORMER
HID	HIGH INTENSITY DISCHARGE
HOA	HAND OFF AUTO
HP	HORSEPOWER
HST	HARMONIC SUPPRESSION TRANSFORMER
HSHKPG	HOUSEKEEPING
HTR	HEATER
HV	HIGH VOLTAGE
HZ	HERTZ (CYCLES/SECOND)
ICC	INTERMEDIATE CROSS CONNECT
ID	INSIDE DIAMETER
IDF	INTERMEDIATE DISTRIBUTION FRAME
IMC	INTERMEDIATE METAL CONDUIT
IP	INTERNET PROTOCOL
IPS	IMAGES PER SECOND
ISCSI	INTERNET SMALL COMPUTER SYSTEM INTERFACE
IR	INFRARED
JB	JUNCTION BOX
KO	KNOCK OUT
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATT
KWH	KILOWATT HOUR
LA	LIGHTNING ARRESTOR
LAN	LOCAL AREA NETWORK
LCD	LIQUID CRYSTAL DISPLAY
LED	LIGHT EMITTING DIODE
LS	LIFE SAFETY
LTD	LONG TIME DELAY
LTG	LIGHTING
LV	LOW VOLTAGE
MAG	MAGNETIC
MAN	MANUAL
MAX	MAXIMUM
MATV	MASTER ANTENNA TELEVISION
Mb	MEGABIT
MC	METAL CLAD CABLE
MCA	MINIMUM CIRCUIT AMPERES
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCS	MOLDED CASE SWITCH
MCP	MOTOR CIRCUIT PROTECTOR
MDF	MAIN DISTRIBUTION FRAME
MDP	MAIN DISTRIBUTION PANELBOARD
MECH	MECHANICAL
MER	MAIN EQUIPMENT ROOM
MFGR	MANUFACTURER
MFS	MAIN FUSED SWITCH
MGP	MEDICAL GAS PANEL
MH	MANHOLE
MI	MINERAL INSULATED CABLE
MIC	MICROPHONE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MM	MULTIMODE
MOCP	MAXIMUM OVERCURRENT PROTECTION
MTD	MOUNTED
MTS	MANUAL TRANSFER SWITCH
MV	MEDIUM VOLTAGE
N	NEUTRAL
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NOC	NETWORK OPERATIONS CENTER
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OC	ON CENTER
OCPD	OVERCURRENT PROTECTIVE DEVICE
OD	OUTSIDE DIAMETER
OH	OVERHEAD
P	POLE
PA	PUBLIC ANNOUNCEMENT
PB	PULLBOX/PUSHBUTTON
PC	PERSONAL COMPUTER
PCU	PACKAGED CONTROL UNIT
PIE	PNEUMATIC- ELECTRIC
PH	PHASE
PNL	PANELBOARD
PLC	PROGRAMMABLE LOGIC CONTROLLER
PoE	POWER OVER ETHERNET
PRI	PRIMARY
PSU	PATIENT SERVING UNIT
PT	POTENTIAL TRANSFORMER
PTZ	PAN TILT ZOOM
PVC	POLYVINYL CHLORIDE
PWR	POWER
RAID	REDUNDANT ARRAY OF INDEPENDENT DISKS
RCP	REFLECTED CEILING PLANS
RCPT	RECEPTACLE
RE	REFER TO
REF	REFRIGERATOR
RF	RADIO FREQUENCY
RFI	RETURN FAN
RFID	RADIO FREQUENCY IDENTIFICATION DEVICE
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RTLS	REAL TIME LOCATION SYSTEM
RUPS	ROTARY HYBRID UNINTERRUPTIBLE POWER SUPPLY
SCHED	SCHEDULE
SEC	SECONDARY
SF	SUPPLY FAN
SFL	SUB FEED LUGS
SFP	SURGICAL FACILITY PANEL
SH	SHEET
SM	SINGLE MODE
SP	SINGLE POLE
SPDT	SINGLE POLE DOUBLE THROW
SPST	SINGLE POLE SINGLE THROW
SPC	SPACE
SPEC	SPECIFICATION
SPKR	SPEAKER
SPR	SPARE
SS	STAINLESS STEEL
ST	SHUNT TRIP
STD	SHORT TIME DELAY
STP	SHIELDED TWISTED PAIR
STR	STARTER
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
SYM	SYMMETRICAL
TB	TERRA BYTES
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TC	TERMINAL CABINET
TERM	TERMINAL
TEL	TELEPHONE
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
THD	TOTAL HARMONIC DISTORTION
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TR	TELECOMMUNICATIONS ROOM
TRANS	TRANSITION
TSER	TELECOMMUNICATIONS SERVICE ENTRANCE ROOM
TTC	TELEPHONE TERMINAL CABINET
TV	TELEVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
TYP	TYPICAL
UC	UNDER COUNTER
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
USS	UNIT SUBSTATION
UTP	UNSHIELDED TWISTED PAIR
V	VOLT
VAV	VARIABLE AIR VOLUME
VM	VOLTMETER
VoIP	VOICE OVER INTERNET PROTOCOL
VPI	VACUUM-PRESSURE IMPREGNATED
VSD	VARIABLE SPEED DRIVE
W	WATT
WAN	WIDE AREA NETWORK
WAP	WIRELESS ACCESS POINT
WLAN	WIRELESS LOCAL AREA NETWORK
WP	WEATHERPROOF
XFMR	TRANSFORMER

DEVICE SUBSCRIPTS

II	ROMAN NUMERAL INDICATES QUANTITY OF GANGED DEVICES UNDER COMMON FACEPLATE
a	LOWER CASE LETTER(S) INDICATES MULTI SWITCH CONTROL ARRANGEMENT
7	NUMERAL INDICATES BRANCH CIRCUIT NUMBER
A	WITH AUXILIARY CONTACTS
B	REMOVE DEVICE AND INSTALL BLANK COVERPLATE
BF	BLANK FACE GFCI
BS	ITEM CONTROLLED BY BED STOP RELAY
C	ITEM INSTALLED FLUSH IN CEILING
C*	CONTROL POINT IDENTIFIER (*INDICATES CONTROL NUMBER)
D	120 VOLT DISCONNECT SWITCH ARRANGEMENT
E	EXISTING BACKBOX TO REMAIN AND BE REUSED
EN	EXISTING LOCATION NEW DEVICE
EO	EQUIPMENT SUPPLIED BY OWNER
EQ	ITEM INSTALLED IN EQUIPMENT
ER	EXISTING TO BE REMOVED
ERL	EXISTING TO BE RELOCATED
EX	EXISTING
FL	ITEM INSTALLED FLUSH IN FLOOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTING RECEPTACLE
GFI	GROUND FAULT CIRCUIT INTERRUPTING BREAKER PROTECTED
GFP	FEED THROUGH GROUND FAULT CIRCUIT INTERRUPTING PROTECTED
H	HORIZONTALLY MOUNTED
HA	HIGH ABUSE COVERPLATE
HG	HOSPITAL GRADE
IG	ISOLATED GROUND RECEPTACLE
K	KEY OPERATED
L	LOCATOR STYLE SWITCH OPERATING HANDLE
LV	LOW VOLTAGE
M	MULLION MOUNTED
M*	MONITORING POINT IDENTIFIER (*INDICATES MONITORING POINT)
NL	NIGHT LIGHT RECEPTACLE
NLG	NIGHT LIGHT GFCI RECEPTACLE
P	PILOT TYPE SWITCH OPERATING HANDLE
PP	FOR AUTO DOOR PUSH PLATE
Q	QUAD (DOUBLE DUPLEX) DEVICE
R	RECESSED
S	SURFACE MOUNTED
SG	SAFETY GROUNDING RECEPTACLE
SP	SURGE PROTECTOR RECEPTACLE
SW	SPLIT WIRED RECEPTACLE FOR REMOTE SWITCHING
TR	TAMPER RESISTANT
USB	USB PORT CHARGING RECEPTACLE
W	ITEM INSTALLED 3'-8" AFF OR AS DETAILED
WG	WIRE GUARD
WP	WEATHERPROOF
WPS	WEATHERPROOF SPRING COVER
Z*	DEVICE ZONE IDENTIFIER (* INDICATES ZONE NUMBER)

EQUIPMENT DESIGNATIONS

4 LC 1
- LEVEL
- EQUIPMENT NAME
- SEQUENCE NUMBER
- NUMBERS IN SEQUENCE - 1,2,3, ETC.

ATSF	AUTOMATIC TRANSFER SWITCH, FIRE PUMP
ATSS	AUTOMATIC TRANSFER SWITCH, LIFE SAFETY (CEC 517)
ATSC	AUTOMATIC TRANSFER SWITCH, CRITICAL (CEC 517)
ATSE	AUTOMATIC TRANSFER SWITCH, EQUIPMENT (CEC 517)
BPS	BOLTED PRESSURE SWITCH
CB	CIRCUIT BREAKER
CRT	FIRE ALARM CRT ANNUNCIATOR
DS	UNFUSED DISCONNECT SWITCH
DT	DAY TANK
FAP	FIRE ALARM ANNUNCIATOR
FATC	FIRE ALARM TERMINAL CABINET
FDS	FUSED DISCONNECT SWITCH
FPU	FIELD PROCESSING UNIT
GC	GENERAL PURPOSE CONTACTOR
IPC	INTEGRATED POWER CENTER
LC	LIGHTING CONTACTOR
LRP	LIGHTING RELAY PANEL
LVS	LOW VOLTAGE POWER SWITCHGEAR
MS	METER SOCKET
NEC	NURSE CALL EQUIPMENT CABINET
PSU	PATIENT SERVING UNIT
SWBDN	SWITCHBOARD, NORMAL
SWBDS	SWITCHBOARD, LIFE SAFETY (CEC 517)
SWBDC	SWITCHBOARD, CRITICAL (CEC 517)
SWBDE	SWITCHBOARD, EQUIPMENT (CEC 517)
TN	TRANSFORMER, NORMAL
TS	TRANSFORMER, LIFE SAFETY (CEC 517)
TC	TRANSFORMER, CRITICAL (CEC 517)
TE	TRANSFORMER, EQUIPMENT (CEC 517)
TR	TELECOMMUNICATION ROOM
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
UPS	UNINTERRUPTIBLE POWER SUPPLY

1 LEVEL 01

PANELBOARDS DESIGNATIONS

4 P E L 1
- LEVEL
- TYPE
- SYSTEM/SOURCE
- VOLTAGE
- SEQUENCE NUMBER
- NUMBERS IN SEQUENCE - 1,2,3, ETC.

H	480Y/277V
L	208V/120V OR 240V
N	NORMAL BRANCH
G	GENERATOR POWER
S	LIFE SAFETY BRANCH (CEC 517)
C	CRITICAL BRANCH (CEC 517)
E	EQUIPMENT BRANCH (CEC 517)
K	KITCHEN PANELBOARD
L	LIGHTING AND APPLIANCE PANELBOARD
P	POWER DISTRIBUTION PANELBOARD
DP	DISTRIBUTION PANELBOARD

1 LEVEL 01

BRANCH VOLTAGE DROP

CONDUCTOR AWG	#12	#10	#8
MAXIMUM CONDUCTOR LENGTH AT 120V	95	160	245
MAXIMUM CONDUCTOR LENGTH AT 277V	225	375	565
MAXIMUM CONDUCTOR LENGTH AT 208V/ 1 PH.	170	280	425
MAXIMUM CONDUCTOR LENGTH AT 480V/ 1 PH.	390	650	985
GROUND CONDUCTOR AWG	#12	#10	#8

NOTES:

1. INCREASE BRANCH CIRCUIT CONDUCTOR AS INDICATED.
2. BASED ON 20A CIRCUIT LOADED TO 10A USING SINGLE PHASE, 2 WIRE CIRCUITS.
3. SCHEDULE REPRESENTS MINIMUM CONDUCTOR SIZE BASED ON LENGTH OF BRANCH CIRCUIT CONDUCTOR FROM PANEL TO PHYSICAL CENTER OF LOAD TO OVERCOME VOLTAGE DROP. 3% VOLTAGE DROP ASSUMED.
4. TRANSITION FROM LARGER CONDUCTOR SIZE TO #12 FOR FINAL TERMINATION TO OUTLET DEVICE. PROVIDE JUNCTION BOX WITHIN 10' OF OUTLET. EXTEND #12 CONDUCTOR TO OUTLET.

GENERAL

- NEW EQUIPMENT
- EXISTING WORK
- DEVICE TO BE REMOVED (DEMO PLANS) UNDERFLOOR CONDUIT (NEW PLANS)
- FUTURE WORK
- WIRE AND/OR CONDUIT RUN CONTINUED ON REFERENCED DETAIL
- MATCH LINE REFERENCING CONTINUATION ON OTHER DRAWINGS
- DETAIL AND/OR SECTION REFERENCE
- BRANCH CIRCUIT BOUNDARY
- LIGHTING DAYLIGHT ZONE

DRAWING NOTES AND DESIGNATIONS

- X — DRAWING KEYED NOTES
- X — CABLE ROUTING NOTES
- 3004 — FEEDER DESIGNATION
- XXX — LAB EQUIPMENT TAG
- NEW EQUIPMENT DESIGNATION
- EQUIPMENT DESIGNATION NUMBER
- (E) XXX — EXISTING EQUIPMENT DESIGNATION
- SYMBOL WITH DASHED OUTLINE INDICATES INSTALLATION AT CEILING
- SYMBOL WITH TAIL INDICATES WALL INSTALLATION, HEIGHT AS INDICATED

WIRE AND CABLE

NEUTRAL WIRE SHOWN AS A LONG LINE, PHASE WIRE SHOWN AS SHORT LINES, AND GROUND WIRE SHOWN AS LONG LINE WITH DOT

- 3 / 1 / 10LN1 — THREE CIRCUIT HOME RUN IN CONDUIT TO ASSOCIATED PANELBOARD. NUMBERS INDICATE CIRCUIT NUMBERS. ARROWS INDICATE QUANTITY OF 20A-1P CIRCUITS. SLASH MARKS INDICATE QUANTITY OF WIRE
- 30A-2P / #10 / 10LN1 — MULTI-CIRCUIT HOME RUN IN CONDUIT TO ASSOCIATED PANELBOARD. SLASH MARKS INDICATE QUANTITY OF WIRES. PHASE WIRE SIZE SHOWN FOLLOWING THE # SYMBOL IF APPLICABLE
- 1LN1-12 — NUMBERS INDICATES SOURCE PANELBOARD AND CIRCUIT(S)
- SPLICE

DIVISION 26: LEGEND

NOTE: SPEC REFERENCES ARE GENERAL AND MAY NOT BE SPECIFIC

LIGHTING BRANCH CIRCUITS

- XXX / # / a — XXX: LUMINAIRE TAG - CORRESPONDS TO LUMINAIRE SCHEDULE; #: CIRCUIT NUMBER (AND PANELBOARD IF SPECIFICALLY DESIGNATED); a: LOWER CASE LETTER(S) INDICATE MULTI-SWITCH CONTROL ARRANGEMENT.

POWER BRANCH CIRCUITS

- # — CIRCUIT NUMBER (AND PANELBOARD IF SPECIFICALLY DESIGNATED)

WIRING TERMINATIONS

- X / # — X: EQUIPMENT IDENTIFICATION TAG; #: CIRCUIT NUMBER (AND PANELBOARD IF SPECIFICALLY DESIGNATED)
- 1 — DIRECT CONNECTION OR MATCHING RECEPTACLE FOR 120V EQUIPMENT
- E — DIRECT CONNECTION OR RECEPTACLE FOR 120V CRITICAL EQUIPMENT (NEC 517)
- E — DIRECT CONNECTION OR RECEPTACLE FOR 120V EMERGENCY EQUIPMENT (NEC 700)
- 2 — DIRECT CONNECTION OR MATCHING RECEPTACLE FOR 208V EQUIPMENT
- 3 — DIRECT CONNECTION OR MATCHING RECEPTACLE FOR 480V EQUIPMENT
- 4 — DIRECT CONNECTION OR RECEPTACLE FOR 120V OPTIONAL EQUIPMENT (NEC 702)
- 5 — DIRECT CONNECTION OR MATCHING RECEPTACLE FOR 277V EQUIPMENT
- MOTOR CONNECTION. REFER TO EQUIPMENT CONNECTION MOTOR CONTROLLER SCHEDULE FOR SPECIFIC REQUIREMENTS

26 0526 GROUNDING AND BONDING

- G — GROUND/ELECTRODE CONDUCTOR
- GROUND ROD
- GROUND TEST STATION
- MECHANICAL CONNECTION
- GROUND CONNECTION (MOLDED FUSION WELD OR IRREVERSIBLE)
- GROUND — EQUIP ROOM GROUND TERMINAL BAR OF LENGTH INDICATED, 1'-6" AFF
- GROUND

26 053* RACEWAY AND PATHWAY

- CONDUIT TURNED UP
- CONDUIT TURNED DOWN
- CAPPED CONDUIT
- CONDUIT STUBBED AND BUSHED INTO ACCESSIBLE CEILING CAVITY
- SERVICE WEATHERHEAD
- SINGLE CHANNEL SURFACE RACEWAY
- DUAL CHANNEL SURFACE RACEWAY
- CABLE TRAY, HUNG ABOVE CEILING OR AS NOTED

26 0535 BOXES AND CABINETS

- BACKBOX AND CONDUIT FOR TELECOMMUNICATIONS OUTLET, 1'-6" AFF
- BACKBOX AND CONDUIT FOR TELECOMMUNICATIONS OUTLET, 5'-0" AFF
- BACKBOX AND CONDUIT FOR TELECOMMUNICATIONS OUTLET, INSTALLED FLUSH IN CEILING
- B — DEVICE BOX WITH BLANK COVER PLATE, HEIGHT AS INDICATED ON DWG
- J — JUNCTION BOX
- PB — PULL BOX
- CABINET, TOP OF TRIM 6'-2" AFF
- CR — WALL MOUNTED BACKBOX AND CONDUIT FOR CARD READER, 3'-8" AFF AND 4" FROM DOOR FRAME
- PAS1 — BACKBOX AND CONDUIT MOUNTED UNDERSIDE OF DESK FOR PANIC ALARM SWITCH
- CT — BACKBOX AND CONDUIT CEILING OR WALL MOUNTED FOR SECURITY CAMERAS
- S — BACKBOX AND CONDUIT FOR FLUSH WALL MOUNTED AV SPEAKER, 8'-6" AFF

26 0543 UNDERGROUND CONSTRUCTION

- DBC — CABLE (DBC-DIRECT BURIED CABLE, DB-DUCT BANK) (* = NUMBER)
- M — MANHOLE
- H — HANDHOLE
- TM — TRANSFORMER MANHOLE OR VAULT

26 0575 CONDUIT ROUGH-IN SYSTEMS

- PP — POWER ASSIST PUSH PLATE BACKBOX- MOUNTED 3'-8" AFF
- PP1 — POWER ASSIST PUSH PLATE BACKBOX- MULLION MOUNTED 3'-8" AFF

26 0578 MULTI-SERVICE BOXES AND RACEWAYS

- FBSW — FLOOR BOX, EXPOSED, WITH PROVISIONS FOR WHIP
- FBEP — FLOOR BOX, EXPOSED, FLUSH
- FBCR — FLOOR BOX, CONCEALED, WITH REGRESSED DEVICES
- PBSW — POKE-THRU ASSEMBLY, EXPOSED, WITH PROVISIONS FOR WHIP
- PBEP — POKE-THRU ASSEMBLY, EXPOSED, FLUSH
- PBCR — POKE-THRU ASSEMBLY, CONCEALED, WITH REGRESSED DEVICES
- WEBSW — WALL BOX, EXPOSED, WITH PROVISIONS FOR WHIP
- WBCR — WALL BOX, CONCEALED, WITH REGRESSED DEVICES

IDENTIFICATION CHART

ACCESS: C - CONCEALED; E - EXPOSED

SERVICE COVER/DEVICE FITTING: B - BLANK; F - FLUSH; R - RECESSED; S - SEMI FLUSH; T - TOMBSTONE; W - WHIP

LOCATION: F - FLOOR; P - POKE-THRU; R - RAISED FLOOR; S - STAGE; T - TABLE; U - UNDER FLOOR DUCT; W - WALL

SEQUENTIAL NUMBER

REFER TO MULTI-SERVICE BOX SCHEDULE FOR ADDITIONAL INFORMATION REGARDING THE FOLLOWING BOXES.

26 09** LIGHTING CONTROL

- LINE VOLTAGE AUTOMATIC CONTROL DEVICE - RE: TABLE BELOW FOR DESCRIPTION
- LIGHTING CONTROL SYSTEM DEVICE - RE: TABLE BELOW FOR DESCRIPTION

DEVICE REFERENCE TABLE (ARROWS ON DEVICE INDICATES DIRECTION)

# = DS =	DAYLIGHT SENSOR, CEILING MOUNTED
DT =	DIGITAL TIME SWITCH, 3'-8" AFF
T =	WALL BOX ELECTRONIC INTERVAL TIMER, 3'-8" AFF
P =	WALL BOX SENSOR, 3'-8" AFF
2P =	2 POLE, WALL BOX SENSOR, 3'-8" AFF
P1 =	WALL/CEILING/CORNER MOUNT SENSOR, WIDE VIEW
P2 =	CEILING MOUNT SENSOR, WIDE VIEW
P3 =	WALL/CEILING SENSOR, LONG, NARROW RANGE VIEW SENSOR
P4 =	EXTERIOR MOTION SENSOR
P5 =	CEILING MOUNT SENSOR, HIGH BAY
P6 =	CEILING MOUNT SENSOR, HIGH BAY, LONG, NARROW RANGE VIEW SENSOR
P7 =	WALL BOX, COMBINATION SENSOR/DIMMER, 3'-8" AFF
P8 =	WALL/CEILING/CORNER MOUNT, NARROW, LONG RANG VIEW, PIR TYPE
PC =	EXTERIOR PHOTOELECTRIC CONTROL, 1'-0" ABOVE ROOF, AIMED NORTH

- TC — TIME SWITCH, LINE VOLTAGE, 5'-0" AFF
- ELCM — EMERGENCY LIGHTING BYPASS DEVICE

DIGITAL LIGHTING BASED CONTROL EQUIPMENT

- SW — SWITCH CONTROL STATION (PUSH BUTTON QUANTITIES PER LOWER CASE LETTERS), 3'-8" AFF
- DC — DIMMING CONTROL STATION (PUSH BUTTON QUANTITIES PER LOWER CASE LETTERS), 3'-8" AFF
- SC — SCENE CONTROL STATION, 3'-8" AFF
- ELCM — EMERGENCY LIGHTING BYPASS DEVICE / CONTROL MODULE
- PLCM — PLUG LOAD CONTROL MODULE

26 1200/2200 TRANSFORMERS

- T — TRANSFORMER (PLAN DENOTATION)
- TRANSFORMER (SINGLE LINE DENOTATION)
- 3-PHASE, 3-WIRE DELTA CONNECTION
- 3-PHASE WYE, NEUTRAL UNGROUNDED CONNECTION
- WYE CONNECTION

26 1000/2000/3000 POWER DISTRIBUTION

- LOW VOLTAGE INTERRUPTER SWITCH
- POTENTIAL TRANSFORMER (NUMBER INDICATES QUANTITY)
- CURRENT TRANSFORMER (NUMBER INDICATES QUANTITY)
- DM — DIGITAL METERING MONITOR
- PLC — PROGRAMMABLE LOGIC CONTROLLER
- M — METER SOCKET
- PROTECTIVE RELAY (*INDICATES ANSI FUNCTION, NUMBER INDICATES QUANTITY)
- LIGHTNING ARRESTOR

26 2416 PANELBOARDS

PANELBOARD (SINGLE LINE DENOTATION)

- SHADING INDICATES BRANCH TYPE
- TEXT INDICATES LUG / BREAKER TYPE
- NORMAL BRANCH PANELBOARD
- LIFE SAFETY / NEC 517 BRANCH PANELBOARD
- CRITICAL / NEC 517 BRANCH PANELBOARD
- EQUIPMENT / NEC 517 BRANCH PANEL BOARD

26 2726 WIRING DEVICES

- INDICATES MULTIPLE DEVICES INSTALLED UNDER COMMON COVERPLATE AT ONE LOCATION
- S — SINGLE POLE SWITCH, 3'-8" AFF
- S^2 — 2-POLE SWITCH, 3'-8" AFF
- S^3 — 3-WAY SWITCH, 3'-8"
- S^M — MOMENTARY CONTACT SWITCH, 3'-8" AFF
- S^K — KEY SWITCH 3'-8" AFF
- LINE VOLTAGE, WALLBOX DIMMER, 3'-8"AFF
- LED, LINE VOLTAGE, WALLBOX DIMMER, 3'-8"AFF
- SWITCH TO MATCH DIMMER DESIGN FOR GANGED INSTALLATION UNDER COMMON COVERPLATE
- NEMA 5-20R DUPLEX RECEPTACLE, 1'-6" AFF
- NEMA 5-20R RED DUPLEX RECEPTACLE, 1'-6" AFF
- TWO (2) NEMA 5-20R DUPLEX RECEPTACLES INSTALLED UNDER COMMON COVERPLATE, 1'-6" AFF
- TWO (2) NEMA 5-20R RED DUPLEX RECEPTACLES INSTALLED UNDER COMMON COVERPLATE, 1'-6" AFF
- G — NEMA 5-20R GFCI DUPLEX RECEPTACLE, 3'-8" AFF
- GT — NEMA 5-20R GFCI DUPLEX RECEPTACLE, 1'-6" AFF
- GR — NEMA 5-20R RED GFCI DUPLEX RECEPTACLE, 3'-8" AFF
- BU — COMBINATION NEMA 5-20R TAMPER RESISTANT DUPLEX RECEPTACLE AND DC (DUPLEX), USB PORT CHARGING RECEPTACLE, 1'-6" AFF
- DU — COMBINATION AC (DUPLEX) AND DC (DUPLEX), USB PORT CHARGING RECEPTACLE, 1'-6" AFF
- DA — NEMA 5-20R PLUG LOAD CONTROLLABLE DUPLEX AUTOMATIC RECEPTACLE, 1'-6" AFF
- W — NEMA 5-20R GFCI DUPLEX RECEPTACLE IN WP BOX WITH WP COVER, 1'-6" AG
- GA — NEMA 5-20R PLUG LOAD CONTROLLABLE, GFCI, DUPLEX AUTOMATIC RECEPTACLE, 1'-6" AFF (UNO)
- EPO — EMERGENCY POWER OFF STATION, 4'-6" AFF

26 2800 PROTECTIVE DEVICES

- CB — SEPARATELY ENCLOSED CIRCUIT BREAKER, FLUSH MOUNTED 3'-8" AFF
- UNFUSED DISCONNECT SWITCH, SURFACE 3'-8" AFF, (5-0" AFF IN EQ ROOMS)
- XXAS / XXAT / # POLES — CIRCUIT BREAKER (SINGLE LINE DENOTATION)

26 2913 MOTOR CONTROLLERS

- S^T — FRACTIONAL HORSEPOWER MOTOR CONTROLLER, RECESSED 3'-8" AFF OR ABOVE CEILING (MANUAL THERMAL SWITCH)
- MOTOR CONTROLLER/DISCONNECT, 3'-8" AFF (5'-0" AFF IN EQ ROOMS)
- VSD — VARIABLE SPEED DRIVE

26 3343 ELECTRIC VEHICLE POWER TRANSFER

- EVPS — ELECTRIC VEHICLE POWER TRANSFER STATION, TOP OF TRIM 6'-2" <POLE> <PEDESTAL>

*IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE EVPS SYSTEM.

26 3600 TRANSFER SWITCHES

-

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STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 01/20) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6, and §141.0(b)2 for indoor lighting scopes using the prescriptive path.			
Project Name: TRI-CITY MEDICAL CENTER PSYCHIATRIC HEALTH FACILITY		Report Page:	Page 1 of 7
Project Address: 4002 VISTA WAY, OCEANSIDE, CA 92056		Date Prepared:	11/18/2020

A. GENERAL INFORMATION

01	Project Location (city)	OCEANSIDE	04	Total Conditioned Floor Area (ft²)	14,072
02	Climate Zone	7	05	Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

☐ Office ☐ Retail ☐ Warehouse ☐ Hotel/Motel ☐ School ☐ Support Areas
☐ Parking Garage ☐ High-Rise Residential ☐ Relocatable ☑ Healthcare ☐ Other (write in):

B. PROJECT SCOPE
Table Instructions: Include any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations. WARNING: Changing the Calculation Method in this table will result in the deletion of data previously input. If you need to change the calculation method, please open a new form or use "Save As".

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☑ New Lighting System	Complete Building	14,072		
☐ Altered Lighting System				
Total Area of Work (ft²)	**14,072**			

C. COMPLIANCE RESULTS
Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1.	Allowed Lighting Power per §140.6(b) (Watts)						Adjusted Lighting Power per §140.6(a) (Watts)					Compliance Results
	01	02	03	04	05		06	07		08		09
	Complete Building §140.6(c)1	Area Category §140.6(c)2	Area Category Additional §140.6(c)2G (+)	Tailored §140.6(c)3 (+)	**Total Allowed** (Watts)		Total Designed (Watts)	Adjustments PAF Control Credits §140.6(a)2 (-)		**Total Adjusted** (Watts) *Includes Adjustments		**05 Must be ≥ 08** §140.6
	(See Table I)	(See Table I)	(See Table J)	(See Table K)			(See Table F)	(See Table P)				
Conditioned:	12,664.8				= **12,664.8**	≥	7,143.7		=	**7,143.7**		**COMPLIES**
Unconditioned:					=	≥			=			

Table Continued

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 01/20) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: TRI-CITY MEDICAL CENTER PSYCHIATRIC HEALTH FACILITY	Report Page:	Page 2 of 7
Project Address: 4002 VISTA WAY, OCEANSIDE, CA 92056	Date Prepared:	11/18/2020

Controls Compliance (See Table H for Details)	
Rated Power Reduction Compliance (See Table Q for Details)	**Not Applicable**

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

Selections made in Table U have been changed by the permit applicant. See Table E. Additional Remarks for permit applicant's explanation.

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. INDOOR LIGHTING FIXTURE SCHEDULE
Table Instructions: Include all permanent designed lighting and all portable lighting in offices.
Designed Wattage: Conditioned Spaces

01 Name or Item Tag	02 Complete Luminaire Description	03 Modular (Track) Fixture	04 Small Aperture & Color Change[1]	05 Watts per luminaire[2]	06 How Wattage is determined	07 Total number luminaires	08 Exempt per §140.6(a)3	09 Design Watts	10 Field Inspector Pass	Fail
LC1	PERIMETER LINEAR	☐	☐	6.5	NA8 Default	1	☐	6.5	☐	☐
LC2	CONTINUOUS LINEAR	☐	☐	3	NA8 Default	31	☐	93	☐	☐
LD1A	DOWNLIGHT BEHAVORIAL RATED	☐	☐	22	NA8 Default	58	☐	1,276	☐	☐
LD1B	DOWNLIGHT BEHAVORIAL RATED	☐	☐	33	NA8 Default	13	☐	429	☐	☐
LD2	DOWNLIGHT	☐	☐	60	NA8 Default	19	☐	1,140	☐	☐
LD3	DOWNLIGHT	☐	☐	127	NA8 Default	1	☐	127	☐	☐
LF1	FLAT PANEL	☐	☐	24	NA8 Default	6	☐	144	☐	☐
LL1	WET LABEL RECESSED LINEAR	☐	☐	4.6	NA8 Default	14	☐	64.4	☐	☐
LR1	RECESSED LINEAR	☐	☐	6.6	NA8 Default	114	☐	752.4	☐	☐
LS1	WRAP LENS STRIP	☐	☐	53	NA8 Default	23	☐	1,219	☐	☐
LT1	TROFFER BEHAVORIAL RATED	☐	☐	41	NA8 Default	10	☐	410	☐	☐
LT2	TROFFER	☐	☐	20	NA8 Default	35	☐	700	☐	☐
LT3	TROFFER	☐	☐	64	NA8 Default	2	☐	128	☐	☐

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 01/20) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: TRI-CITY MEDICAL CENTER PSYCHIATRIC HEALTH FACILITY	Report Page:	Page 3 of 7
Project Address: 4002 VISTA WAY, OCEANSIDE, CA 92056	Date Prepared:	11/18/2020

01 Name or Item Tag	02 Complete Luminaire Description	03 Modular (Track) Fixture	04 Small Aperture & Color Change[1]	05 Watts per luminaire[2]	06 How Wattage is determined	07 Total number luminaires	08 Exempt per §140.6(a)3	09 Design Watts	10 Field Inspector Pass	Fail
LT4	TROFFER	☐	☐	21	NA8 Default	14	☐	294	☐	☐
LW1	VANITY SCONCE	☐	☐	25	NA8 Default	3	☐	75	☐	☐
LW2	NIGHTLIGHT BEHAVORIAL RATED	☐	☐	2	NA8 Default	10	☐	20	☐	☐
LW3	READING LIGHT BEHAVORIAL RATED	☐	☐	6	NA8 Default	16	☐	96	☐	☐
XS1	EXIT SIGN	☐	☐	5	NA8 Default	6	☑		☐	☐
XS2	EXIT SIGN	☐	☐	5	NA8 Default	7	☑		☐	☐
LX2	EXTERIOR SCONCE	☐	☐	25.2	NA8 Default	2	☐	50.4	☐	☐
LC3	RECESSED CURVED LINEAR	☐	☐	119	NA8 Default	1	☐	119	☐	☐
						Total Designed Watts CONDITIONED SPACES:		**7,143.7**		

[1] *FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)4B is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*
[2] *Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) Wattage used must be the maximum rated for the luminaire, not the lamp.*

G. MODULAR LIGHTING SYSTEMS
This Section Does Not Apply

H. INDOOR LIGHTING CONTROLS (Not Including PAFs)
This Section Does Not Apply

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS
Table Instructions: Complete the table for each area complying using the Complete Building or Area Category Methods per §140.6(b). Indicate if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used.
Conditioned Spaces

01 Area Description	02 Complete Building or Area Category Primary Function Area	03 Allowed Density (W/ft²)	04 Area (ft²)	05 Allowed Wattage (Watts)	06 Additional Allowances / Adjustment Area Category	PAF

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 01/20) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: TRI-CITY MEDICAL CENTER PSYCHIATRIC HEALTH FACILITY	Report Page:	Page 4 of 7
Project Address: 4002 VISTA WAY, OCEANSIDE, CA 92056	Date Prepared:	11/18/2020

01 Area Description	02 Complete Building or Area Category Primary Function Area	03 Allowed Density (W/ft²)	04 Area (ft²)	05 Allowed Wattage (Watts)	06 Additional Allowances / Adjustment Area Category	PAF
COMPLETE BUILDING	Healthcare Facility	0.9	14,072	12,664.8	☐	☐
		TOTAL:	**14,072**	**12,664.8**	See Tables J or P for detail	

J. ADDITIONAL LIGHTING ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM
This Section Does Not Apply

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE
This Section Does Not Apply

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY
This Section Does Not Apply

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING
This Section Does Not Apply

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS
This Section Does Not Apply

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE
This Section Does Not Apply

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))
This Section Does Not Apply

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS
This Section Does Not Apply

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 01/20) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: TRI-CITY MEDICAL CENTER PSYCHIATRIC HEALTH FACILITY	Report Page:	Page 5 of 7
Project Address: 4002 VISTA WAY, OCEANSIDE, CA 92056	Date Prepared:	11/18/2020

R. 80% LIGHTING POWER FOR ALTERATIONS - CONTROLS EXCEPTIONS
This Section Does Not Apply

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)
This Section Does Not Apply

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://ww2.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

YES	NO	Form/Title	Field Inspector Pass	Fail
◉	○	NRCI-LTI-01-E - Must be submitted for all buildings	☐	☐
○	◉	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐
○	◉	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	☐	☐
○	◉	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐	☐
○	◉	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐	☐

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 01/20) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: TRI-CITY MEDICAL CENTER PSYCHIATRIC HEALTH FACILITY	Report Page:	Page 6 of 7
Project Address: 4002 VISTA WAY, OCEANSIDE, CA 92056	Date Prepared:	11/18/2020

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

YES	NO	Form/Title	Field Inspector Pass	Fail
◉	○	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐	☐
◉	○	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐	☐
◉	○	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐	☐
○	◉	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).	☐	☐
○	◉	NRCA-ENV-03-F - Must be submitted for daylighting design power adjustment factors (PAF).	☐	☐

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E (Created 11/19) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
This document is used to demonstrate compliance with requirements in §110.9, §130.0, §130.7, §140.7, and §141.0(b)2L for outdoor lighting scopes using the prescriptive path.		
Project Name: TRI-CITY MEDICAL CENTER PSYCHIATRIC HEALTH FACILITY	Report Page:	Page 1 of 7
Project Address: 4002 VISTA WAY, OCEANSIDE, CA 92056	Date Prepared:	11/18/2020

A. GENERAL INFORMATION

01	Project Location (city)	OCEANSIDE	04	Total Illuminated Hardscape Area (ft²)	39,200
02	Climate Zone	7			
03	Outdoor Lighting Zone per Title 24, Part 1 §10-114 or as designated by Authority Having Jurisdiction (AHJ):				
☐ LZ-0: Very Low - Undeveloped Parkland		☐ LZ-2: Moderate - Rural Areas		☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval	
☐ LZ-1: Low - Developed Parkland		☑ LZ-3: Moderately High - Urban Areas			

B. PROJECT SCOPE
Table Instructions: Include any outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or §141.0(b)2L for alterations.
My project consists of:

01	02
☑ New Lighting System	Must Comply with Allowances from §140.7.
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)? ○ Yes ○ No

03	04	05
% of Existing Luminaires Being Altered[3]	Sum Total of Luminaires Being Added or Altered	Calculation Method

[3] *FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100*

C. COMPLIANCE RESULTS
Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Calculation of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)2L										Compliance Results	
01		02		03		04		05	06	07	08	09
General Hardscape Allowance §140.7(d)1	+	Per Application §140.7(d)2	+	Sales Frontage §140.7(d)2	+	Ornamental §140.7(d)2	+	Per Specific Area §140.7(d)2 OR	Existing Power §141.0(b)2L =	**Total Allowed** (Watts)	≥ **Total Actual** (Watts) (See Table F)	**07 Must be ≥ 08**
(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M) (See Table N)				
2,639.2	+	95	+		+		+	OR	+ 2,734.2	≥	1,457.75	**COMPLIES**
Cutoff Compliance (See Table G for Details)											**Not Applicable**	
Controls Compliance (See Table H for Details)											**COMPLIES**	

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E (Created 11/19) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: TRI-CITY MEDICAL CENTER PSYCHIATRIC HEALTH FACILITY	Report Page:	Page 2 of 7
Project Address: 4002 VISTA WAY, OCEANSIDE, CA 92056	Date Prepared:	11/18/2020

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

No exceptional conditions apply to this project.

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. OUTDOOR LIGHTING FIXTURE SCHEDULE
Table Instructions: For new or altered lighting systems demonstrating compliance with §140.7 (ie Table I has expanded for input), include all luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2L (ie Table N has expanded for input), include only new luminaires being installed and replacement luminaires being installed as part of the project scope (ie, do not include existing luminaires remaining or existing luminaires being moved).
Designed Wattage:

01 Name or Item Tag	02 Complete Luminaire Description		03 Watts per luminaire[1,2]	04 How Wattage is determined	05 Total number luminaires[2]	06 Luminaire Status[4]	07 Excluded per §140.7(a)	08 Design Watts	09 Cutoff Req. ≥ 6,200 initial lumen output §130.2(b)[5]	10 Field Inspector Pass	Fail
LX1	EXTERIOR AREA LIGHT	☐ Linear	42	NA8 Default	4	New	☐	168	NA: <6,200 lumens	☐	☐
LX2	EXTERIOR SCONCE	☐ Linear	25.6	NA8 Default	10	New	☐	256	NA: <6,200 lumens	☐	☐
LX3	EXTERIOR PROJECTOR	☐ Linear	14	NA8 Default	19	New	☑		NA: <6,200 lumens	☐	☐
LX4	EXTERIOR STEPLIGHT	☐ Linear	4.5	NA8 Default	4	New	☐	18	NA: <6,200 lumens	☐	☐
LX5	EXTERIOR BOLLARD	☐ Linear	7.75	NA8 Default	21	New	☐	162.75	NA: <6,200 lumens	☐	☐
LX7	EXTERIOR PEDESTRIAN	☐ Linear	57	NA8 Default	9	New	☐	513	NA: <6,200 lumens	☐	☐
EX2	RELOCATED POLE LIGHT	☐ Linear	68	NA8 Default	5	New	☐	340	NA: <6,200 lumens	☐	☐
						Total Designed Watts:		**1,457.75**			

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b).

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E (Created 11/19) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: TRI-CITY MEDICAL CENTER PSYCHIATRIC HEALTH FACILITY	Report Page:	Page 3 of 7
Project Address: 4002 VISTA WAY, OCEANSIDE, CA 92056	Date Prepared:	11/18/2020

[1] FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c)
[2] For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet for the luminaire should be indicated in column 05 instead of number of luminaires.
[3] Select "New" for new luminaires in a new outdoor lighting project or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope
[4] Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output ≥ 6,200 unless exempted by §130.2(b).

G. CUTOFF REQUIREMENTS (BUG)
This Section Does Not Apply

H. INDOOR LIGHTING CONTROLS
Table Instructions: Complete this table demonstrating compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
*When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank. For each requirement in columns 02 through 04, do not leave the field blank, instead select NA or Exempt* from the dropdown list to indicate not applicable or an exemption.*
Mandatory Controls

01 Area Description	02 Shut-Off §130.2(c)1	03 Auto-Schedule §130.2(c)2	04 Motion Sensor §130.2(c)3	05 Field Inspector Pass	Fail
EXTERIOR HARDSCAPE	Photocontrol	Yes	NA: Wall ≤ 24ft	☐	☐
PARKING LOT	Photocontrol	Yes	Yes	☐	☐

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX: Not permitted by health & safety to be turned off; EXCEPTION 1 to §130.2(c).

I. LIGHTING POWER ALLOWANCE (per §140.7)
Table Continued

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Rev.	Description	Date
	ISSUE FOR PLAN REVIEW BACKCHECK	21 JAN 2022
	ISSUE FOR OSHPD SUBMITTAL	19 NOV 2020
	AGENCY APPROVAL	

FACILITY #: 12372
OSHPD #:

ARCHITECT SEAL

CONSULTANT SEAL
REGISTERED PROFESSIONAL ENGINEER ROBERT J. GARNA JR. E19272 ELECTRICAL STATE OF CALIFORNIA
Robert J. Garna Jr.

Drawing Title:

TITLE 24 FORMS

Issue Date: 11/19/2020
Project No.: 006240.00 Checked by: WC

E0002

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STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E (Created 11/19) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: TRI-CITY MEDICAL CENTER PSYCHIATRIC HEALTH FACILITY	Report Page:	Page 4 of 7
Project Address: 4002 VISTA WAY, OCEANSIDE, CA 92056	Date Prepared:	11/18/2020

Table Continued

Table Instructions: Please complete this table for areas using the allowance calculations per §140.7. General Hardscape Allowance is per Table 140.7-A while "Use it or lost it" Allowances are per Table 140.7-B. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.

01				
	"Use it or lose it" Allowances (select all that apply)			
☑ General Hardscape Allowance	☑ Per Application	☐ Sales Frontage	☐ Ornamental	☐ Per Specific Area
Table I (below)	Table J	Table K	Table L	Table M

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A **(LZ 2 & 3)**

02	03	04	05	06	07	08	09	10
Area Description	Surface Type	Area Wattage Allowance (AWA)			Linear Wattage Allowance (LWA)			Total General AWA + LWA (Watts)
		Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	
EXTERIOR HARDSCAPE	Concrete	9,900	0.03	297	1,342	0.4	536.8	833.8
PARKING LOT	Concrete	29,300	0.03	879	1,441	0.4	576.4	1,455.4
								0
							Initial Wattage Allowance for Entire Site (Watts):	**350**
							Total General Hardscape Allowance (Watts):	**2,639.2**

J. LIGHTING ALLOWANCE: PER APPLICATION

Table Instructions: Please complete this table for areas using the wattage allowance per application from Table-140.7-B.

01	02	03	04	05	06	07	08	09	10
Area Description	Application per Table 140.7-B[1]	CALCULATED ALLOWANCE (Watts)			DESIGN WATTS				Additional Allowance (Watts)
		# of Locations	Allowance per Location[2] (Watts)	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire[3]	# of Luminaires[4]	Design Watts	
ENTRANCE/EXIT	Bldg Entrance/ Exit	5	19	95	LX2	36	5	180	
							Total Design Watts for this Area:	180	95
								Total Allowance (Watts) All Areas:	**95**

Table Continued

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E (Created 11/19) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: TRI-CITY MEDICAL CENTER PSYCHIATRIC HEALTH FACILITY	Report Page:	Page 5 of 7
Project Address: 4002 VISTA WAY, OCEANSIDE, CA 92056	Date Prepared:	11/18/2020

[1] *FOOTNOTES: Primary entrance applications are only available for senior care facilities, healthcare facilities, police stations, hospitals, fire stations, and emergency vehicle facilities.*
[2] *The Allowance per Location for ATMs is 100W for the first ATM and 35W for each additional per Table 140.7-B.*
[3] *For luminaires indicated in Table F as linear, wattage in column 07 is W/lf instead of Watts/luminaire. Total linear feet for the luminaire should be indicated in column 08 instead of number of luminaires.*

K. LIGHTING ALLOWANCE: SALES FRONTAGE
This Section Does Not Apply

L. LIGHTING ALLOWANCE: ORNAMENTAL
This Section Does Not Apply

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA
This Section Does Not Apply

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)
This Section Does Not Apply

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
◉	○	NRCI-LTO-01-E - Must be submitted for all buildings.	☐	☐
◉	○	NRCI-LTO-02-E - Must be submitted for a lighting control system; or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E (Created 11/19) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: TRI-CITY MEDICAL CENTER PSYCHIATRIC HEALTH FACILITY	Report Page:	Page 6 of 7
Project Address: 4002 VISTA WAY, OCEANSIDE, CA 92056	Date Prepared:	11/18/2020

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
◉	○	NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls area added to ≤ 20 luminaires.	☐	☐

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E (Created 11/19) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: TRI-CITY MEDICAL CENTER PSYCHIATRIC HEALTH FACILITY	Report Page:	Page 7 of 7
Project Address: 4002 VISTA WAY, OCEANSIDE, CA 92056	Date Prepared:	11/18/2020

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete

Documentation Author Name:	JEFF SCOTTSTON	Documentation Author Signature:	Jeff Scottston
Company:	CANNONDESIGN	Signature Date:	11/18/2020
Address:	225 N MICHIGAN AVE, SUITE 1100	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	CHICAGO, IL 90901	Phone:	312-960-8273

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	ROBERT GARRA	Responsible Designer Signature:	Robert J Garra Jr
Company :	CANNONDESIGN	Date Signed:	11/18/2020
Address:	50 FOUNTAIN PLAZA	License:	19272
City/State/Zip:	BUFFALO, NY 14202	Phone:	716-774-3263

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E (Created 01/20) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
This document is used to demonstrate compliance with mandatory requirements in §130.5 for electrical systems in newly constructed nonresidential, high-rise residential and hotel/motel occupancies. Additions and alterations to electrical service systems in these occupancies will also use this document to demonstrate compliance per §141.0(a) or §141.0(b)2P for alterations.		
Project Name: TRI-CITY MEDICAL CENTER PSYCHIATRIC HEALTH FACILITY	Report Page:	Page 1 of 5
Project Address: 4002 VISTA WAY, OCEANSIDE, CA 92056	Date Prepared:	11/18/2020

A. GENERAL INFORMATION

01 Project Location (city)	OCEANSIDE	02 Occupancy Types Within Project:			
☐ Office	☐ Retail	☐ Warehouse	☐ Hotel/ Motel	☐ School	☐ Support Areas
☐ Parking Garage	☐ High-Rise Residential	☐ Relocatable	☑ Healthcare Facilities	☐ Other (Write In):	

B. PROJECT SCOPE

Table Instructions: Include any electrical service systems that are within the scope of the permit application.

01	02	03	04	05	06
Electrical Service Designation/ Description	Scope of Work[1]	Rating (kVA)	Utility Provided Metering System Exception to §130.5(a)[2]	System subject to CA Elec Code Article 517 Exception to §130.5(a)&(b)	Demand Response Controls
D1	New electrical service equipment & meter	225	☐	☐	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections §120.2, §130.1 and §130.3 and compliance documents NRCC-MCH, NRCC-LTI and NRCC-LTS will indicate when demand response controls are required.

[1] *FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c), no other requirements from 130.5 are required.*
[2] *Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.*

C. COMPLIANCE RESULTS

Table Instructions: If this table says "DOES NOT COMPLY" refer to Table D. for guidance and review the Table that indicates "No".

01		02		03		04	05
Service Electrical Metering §130.5(a)	AND	Separation for Monitoring §130.5(b)	AND	Voltage Drop §130.5(c)	AND	Controlled Receptacles §130.5(d)	**Compliance Results**
(See Table F)		(See Table G)		(See Table H)		(See Table I)	
Yes	AND	Yes	AND	Yes	AND		**COMPLIES**

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E (Created 01/20) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name: TRI-CITY MEDICAL CENTER PSYCHIATRIC HEALTH FACILITY	Report Page:	Page 2 of 5
Project Address: 4002 VISTA WAY, OCEANSIDE, CA 92056	Date Prepared:	11/18/2020

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

No exceptional conditions apply to this project.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. SERVICE ELECTRICAL METERING

Table Instructions: Complete the table below for new or replacement electrical service systems OR equipment to demonstrate compliance with §130.5(a).

01	02	03				04	05	
Electrical Service Designation/ Description	Rating (kVA)	Required Metering Capabilities per Table 130.5-A				Location of Requirements in Construction Documents	Field Inspector	
		Instantaneous Demand (kW)	Historical Peak Demand (kW)	Tracking kWh for user-defined period	kWh per rate period		Pass	Fail
D1	225	☑	☐	☑	☐	E0521	☐	☐

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

Table Instructions: Complete this table for entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(b). Using the dropdown choices in column 01, indicate the load types included for each service. Any load types that are not included in the service do not need to be shown.

Electrical Service Designation/Description: D1

01	02	03	04	05	
Load Type per Table 130.5-B[1]	Minimum Required Separation of Load per Table 130.5-B	Compliance Method[2]	Location of Requirements in Construction Documents	Field Inspector	
				Pass	Fail
Lighting including exit, egress and exterior	All lighting in aggregate	Method 1	E0521	☐	☐
HVAC systems and components	All HVAC in aggregate	Method 1	E0521	☐	☐
Plug Loads and appliances < 25kVA	All plug load in aggregate Groups of plug loads exceeding 25 kVA connected load in an area less than 5000 sf	Method 1	E0521	☐	☐

Table Continued

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E (Created 01/20) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name: TRI-CITY MEDICAL CENTER PSYCHIATRIC HEALTH FACILITY	Report Page:	Page 3 of 5
Project Address: 4002 VISTA WAY, OCEANSIDE, CA 92056	Date Prepared:	11/18/2020

01	02	03	04	05	
Load Type per Table 130.5-B[1]	Minimum Required Separation of Load per Table 130.5-B	Compliance Method[2]	Location of Requirements in Construction Documents	Field Inspector	
				Pass	Fail

** NOTES: If "Other*" is selected under Compliance Method above, please indicate how compliance has been achieved in the space provided below.*

[1] *FOOTNOTES: For each separate load type, up to 10% of the connected load may be of any type.*
[2] *Method 1: Switchboards/ motor control centers/ panelboard loads disaggregated for each load type*
Method 2: Switchboards/ motor control centers/ panelboard supply other distribution equipment with loads disaggregated for each load type
Method 3: Branch circuits serve load types individually & provisions for adding future branch curcuit monitoring
Method 4: Complete metering system measures and reports loads by type
See Chapter 8 of the Nonresidential Compliance Manual for more detail on Compliance Methods.

H. VOLTAGE DROP

Table Instructions: Please complete this table for entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with §130.5(c). For alterations, only the altered circuits must demonstrate compliance per §141.0(b)2Piii.

01	02		03	04	05	
Electrical Service Designation/ Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method		Location of Voltage Drop Calculations[1]	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector	
					Pass	Fail
D1	☑ Voltage drop < 5%	☐ Permitted by CA Elec Code (Exception to §130.5(c))*	In construction documents	E0621	☐	☐

**NOTES If "Permitted by CA Elec Code*" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.*

[1] *FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".*

I. CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES
This Section Does Not Apply

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E (Created 01/20) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name: TRI-CITY MEDICAL CENTER PSYCHIATRIC HEALTH FACILITY	Report Page:	Page 4 of 5
Project Address: 4002 VISTA WAY, OCEANSIDE, CA 92056	Date Prepared:	11/18/2020

J. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
◉	○	NRCI-ELC-01-E - Must be submitted for all buildings.	☐	☐

K. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
There are no Certificates of Acceptance applicable to electrical power distribution requirements.

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E (Created 01/20) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name: TRI-CITY MEDICAL CENTER PSYCHIATRIC HEALTH FACILITY	Report Page:	Page 5 of 5
Project Address: 4002 VISTA WAY, OCEANSIDE, CA 92056	Date Prepared:	11/18/2020

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	JEFF SCOTTSTON	Documentation Author Signature:	Jeff Scottston
Company:	CANNONDESIGN	Signature Date:	11/18/2020
Address:	225 N MICHIGAN AVE, SUITE 1100	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	CHICAGO, IL 90901	Phone:	312-960-8273

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Company :	CANNONDESIGN	Date Signed:	11/18/2020
Address:	50 FOUNTAIN PLAZA	License:	19272
City/State/Zip:	BUFFALO, NY 14202	Phone:	716-774-3263

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	ISSUE FOR PLAN REVIEW BACKCHECK	21 JAN 2022
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	AGENCY APPROVAL	

FACILITY #: 12372
OSHPD #:

ARCHITECT SEAL

CONSULTANT SEAL

REGISTERED PROFESSIONAL ENGINEER ROBERT J. GARRA E19272 ELECTRICAL STATE OF CALIFORNIA

Drawing Title:

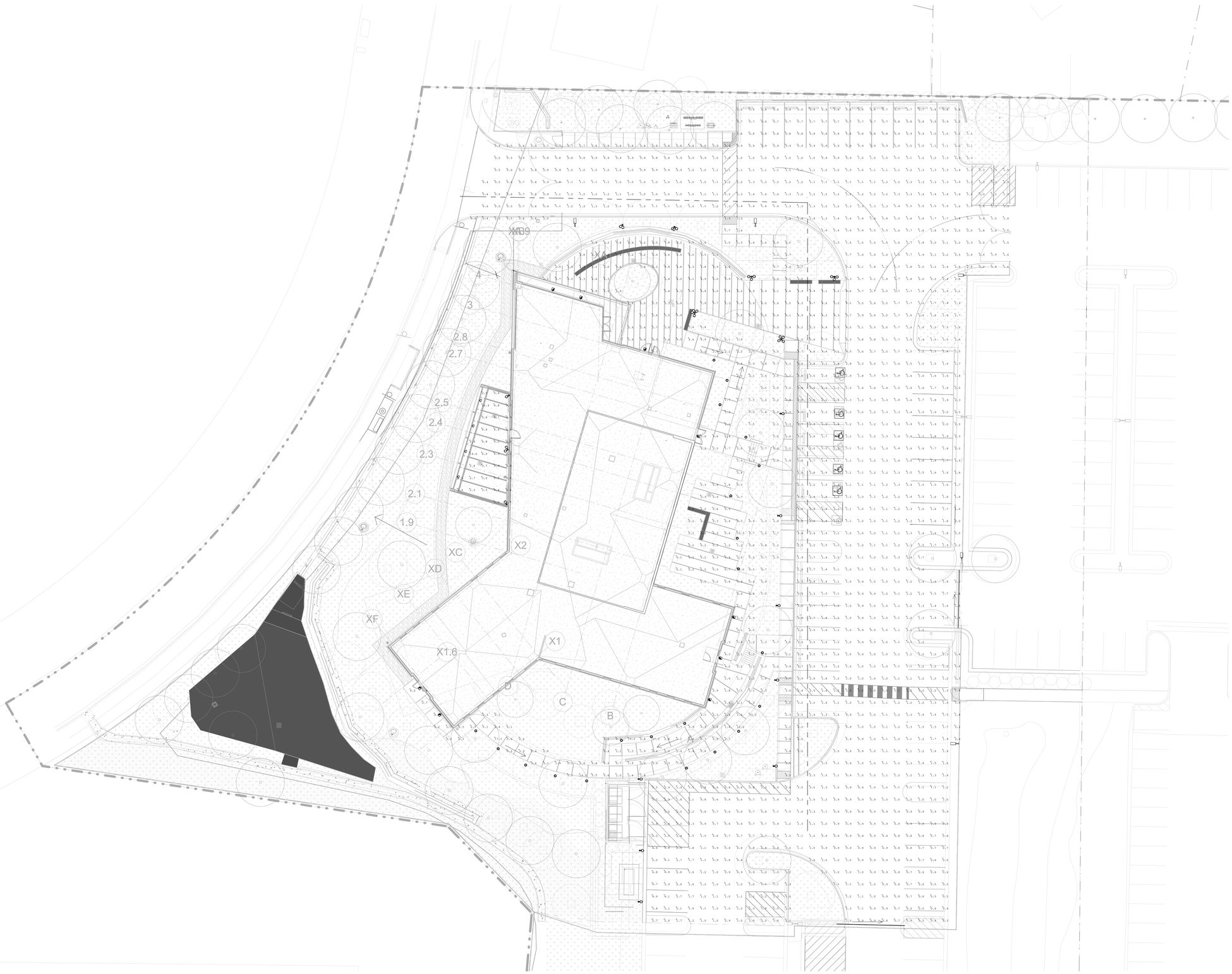
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1 SITE PLAN NORMAL PHOTOMETRIC CALCULATIONS
1/16" = 1'-0"

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Tri-City Medical Center

Tri-City Medical Center
Psychiatric Health Facility

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	ISSUE FOR OSHPD SUBMITTAL	19 NOV 2020
	AGENCY APPROVAL	

FACILITY #: 12372
OSHPD #:

ARCHITECT SEAL

CONSULTANT SEAL

REGISTERED PROFESSIONAL ENGINEER
ROBERT J. GAMA JR.
E19272
ELECTRICAL
STATE OF CALIFORNIA

Drawing Title:

SITE PLAN NORMAL PHOTOMETRIC CALCULATIONS

Issue Date: 11/19/2020

Project No.: 006240.00 Checked by: WC

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1 LEVEL 01 EMERGENCY PHOTOMETRIC CALCULATIONS
1/8" = 1'-0"

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Tri-City Medical Center

Tri-City Medical Center
Psychiatric Health Facility

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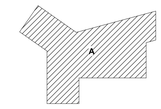
Rev.	Description	Date
	ISSUED FOR PLAN REVIEW	27 OCT 2021
	AGENCY APPROVAL	

ARCHITECT SEAL

CONSULTANT SEAL

REGISTERED PROFESSIONAL ENGINEER
ROBERT J. GARRA
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ELECTRICAL
STATE OF CALIFORNIA

KEY PLAN



KEY PLAN

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LEVEL 01 EMERGENCY PHOTOMETRIC CALCULATIONS

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KEYED NOTES ⬡ :

1. REFER TO SHEET E0521 FOR FEEDER DETAILS. REFER TO CIVIL DRAWINGS FOR DETAILED LOCATIONS.
2. MAINTAIN EXISTING CIRCUIT TO RELOCATED FIXTURE. EXTEND AND MODIFY FEEDERS AS REQUIRED.
3. FIXTURE IS EXISTING TO REMAIN.
4. PROVIDE CONNECTIONS TO ELECTRIC VEHICLE DUAL CHARGING STATIONS (1 PER EVERY 2 PARKING SPACE). MINIMUM 1-INCH CONDUIT PER STATION LOCATION.
5. CONNECT TO CLOSEST UTILITY CONNECTION POINT. REFER TO CIVIL DRAWINGS FOR DETAILED LOCATIONS.
6. PROVIDE (1) 2" CONDUIT FOR FIBER TO THE BAMS BUILDING FOR INTERCONNECTION WITH THE MAIN HOSPITALS NETWORK. REFER TO CIVIL DRAWINGS FOR DETAILED LOCATIONS. COORDINATE EXACT ROUTE WITH TCMC IT DEPARTMENT.

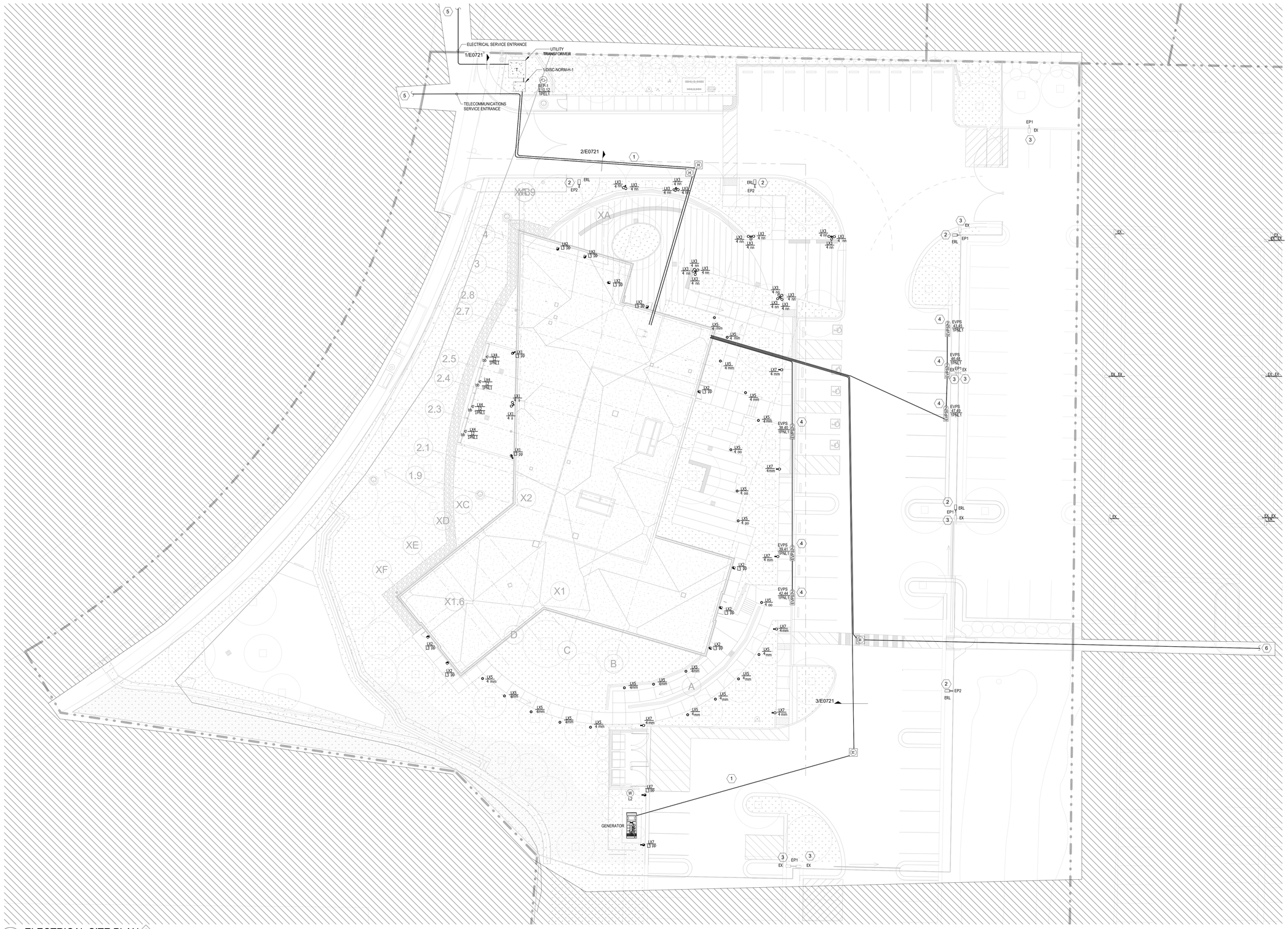
GENERAL NOTES :

1. COORDINATE ALL SITE WORK WITH CIVIL WORK TO ENSURE CONDUITS ARE INSTALLED PRIOR TO PAVING AND LANDSCAPING.
2. ALL SITE LIGHTING CONDUITS SHALL BE A MINIMUM 1-1/4" CONDUIT (MATERIAL AND PROTECTION AS CALLED OUT IN SPECIFICATIONS). CONDUIT TO BE BURIED 36" BELOW GRADE. PROVIDE 3" CLEAN SAND FILL AROUND CONDUITS AND WARNING TAPE 12" ABOVE THE TOP OF THE CONDUITS.
3. ALL SITE LIGHTING AND RECEPTACLE CIRCUITS SHALL BE 2#8, 1#8G CONDUCTORS UNLESS NOTED OTHERWISE.
4. PROVIDE HANDHOLES AT BASE OF LIGHT FIXTURES AS REQUIRED FOR CONDUITS TO TERMINATE.

BRANCH CIRCUIT NOTES ◇ :

EXTEND BRANCH CIRCUITS IN THIS AREA TO THE FOLLOWING BRANCH PANELBOARDS, UNLESS OTHERWISE NOTED:

- 120 / 208V PANELBOARDS
  - 1PNL1 - NORMAL POWER
- 277 / 480V PANELBOARDS
  - 1LNH1 - NORMAL POWER
  - 1LSH1 - LIFE SAFETY POWER (CIRCUITS PREFIXED WITH "L")
  - 1LCH1 - CRITICAL POWER (CIRCUITS PREFIXED WITH "C")



1 ELECTRICAL SITE PLAN 1
1/16" = 1'-0"

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Rev.	Description	Date
	ISSUE FOR PLAN REVIEW BACKCHECK	21 JAN 2022
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Drawing Title:

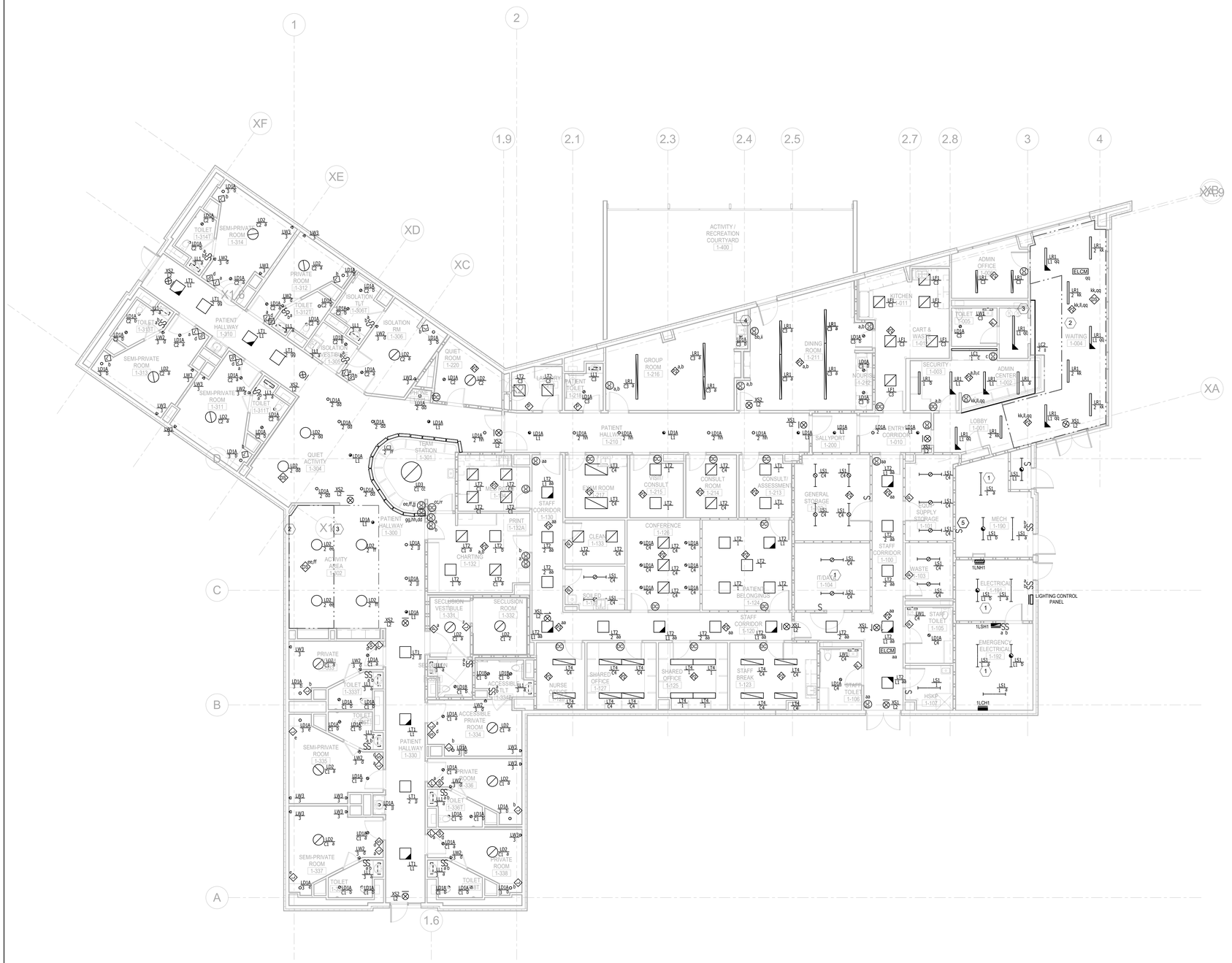
ELECTRICAL SITE PLAN

Issue Date: 11/19/2020
Project No.: 006240.00 Checked by: WC

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GENERAL NOTES :

1. DEVICES THAT ARE NOT LOCATED IN BACK-OF-HOUSE AREAS SHALL BE TAMPER-RESISTANT, HOSPITAL-GRADE.

BRANCH CIRCUIT NOTES ◇:

1. EXTEND BRANCH CIRCUITS IN THIS AREA TO THE FOLLOWING BRANCH PANELBOARDS, UNLESS OTHERWISE NOTED:
   - 277 / 480V PANELBOARDS
   - 1LNH1 - NORMAL POWER
   - 1LSH1 - LIFE SAFETY POWER (CIRCUITS PREFIXED WITH "L")
2. 1LCH1 - CRITICAL POWER (CIRCUITS PREFIXED WITH "C")

LIGHTING NOTES ⬡:

1. ADJUST LUMINAIRE LOCATIONS TO SUIT FIELD CONDITIONS OF AND ILLUMINATION OF EQUIPMENT IN THIS ROOM PER THE SPECIFICATIONS.
2. PRIMARY DAYLIT ZONE.
3. SECONDARY DAYLIT ZONE.
4. CONTROL FOR EXTERIOR COURTYARD LIGHTING.
5. PROVIDE SWITCH INSIDE MECHANICAL ROOM AT ROOF HATCH FOR ROOF LIGHTING.

1 LEVEL 01 LIGHTING PLAN ①
1/8" = 1'-0"

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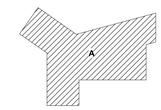
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KEY PLAN



KEY PLAN

Drawing Title:

LEVEL 01 LIGHTING PLAN

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GENERAL NOTES :

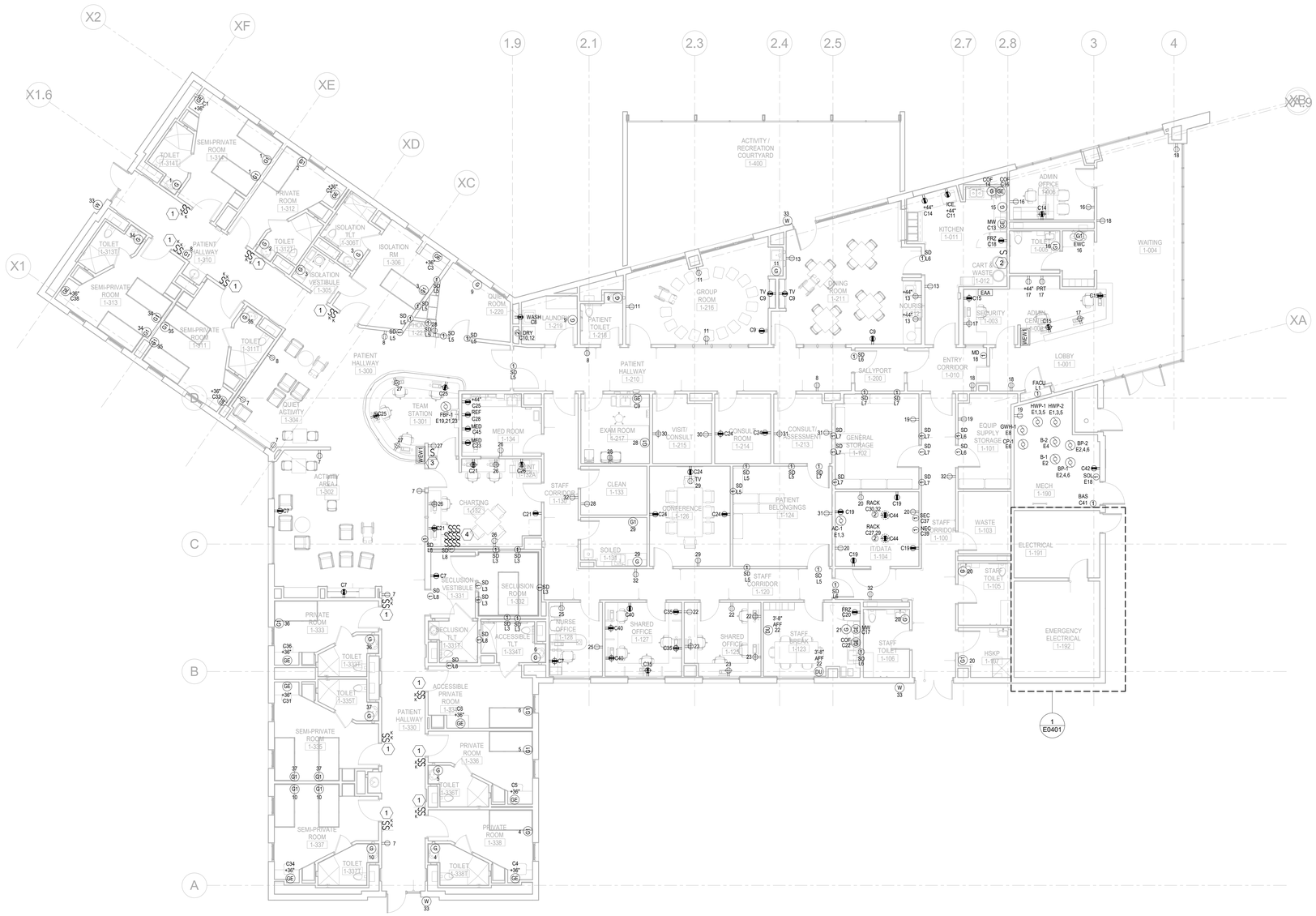
1. ENSURE ALL OUTLETS THAT ARE NOT LOCATED IN BACK-OF-HOUSE AREAS ARE TAMPER-RESISTANT, HOSPITAL-GRADE UNITS ON GROUND FAULT INTERRUPTED CIRCUITS.

BRANCH CIRCUIT NOTES ◇:

1. EXTEND BRANCH CIRCUITS IN THIS AREA TO THE FOLLOWING BRANCH PANELBOARDS, UNLESS OTHERWISE NOTED:
   - 120 / 208V PANELBOARDS
   - 1PNL1 - NORMAL POWER
   - 1PSL1 - LIFE SAFETY POWER (CIRCUITS PREFIXED WITH "L")
   - 1PCL1 - CRITICAL POWER (CIRCUITS PREFIXED WITH "C")
   - 1PEL1 - EQUIPMENT POWER (CIRCUITS PREFIXED WITH "E")
   - 277 / 480V PANELBOARDS
2. 1PEH1 - EQUIPMENT POWER (CIRCUITS PREFIXED WITH "E")

KEYED NOTES ⬡ :

1. PROVIDE KEY SWITCHES OUTSIDE PATIENT ROOMS TO CONTROL ON/OFF POWER FOR PATIENT ROOM RECEPTACLES. (2) PER PATIENT ROOM. (1) FOR CRITICAL RECEPTACLES/CIRCUIT, AND (1) FOR NORMAL RECEPTACLES/CIRCUIT.
2. PROVIDE TOGGLE SWITCH FOR EF-8.
3. PROVIDE SWITCH TO CONTROL ON/OFF POWER FOR LIVING ROOM TV.
4. PROVIDE SWITCHES TO CONTROL ON/OFF POWER FOR BEDROOM RECEPTACLES, ONE PER BEDROOM.



1 LEVEL 01 POWER PLAN ◇
1/8" = 1'-0"

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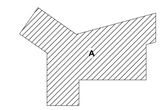
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Drawing Title:

LEVEL 01 POWER PLAN

Issue Date: 12/15/2021
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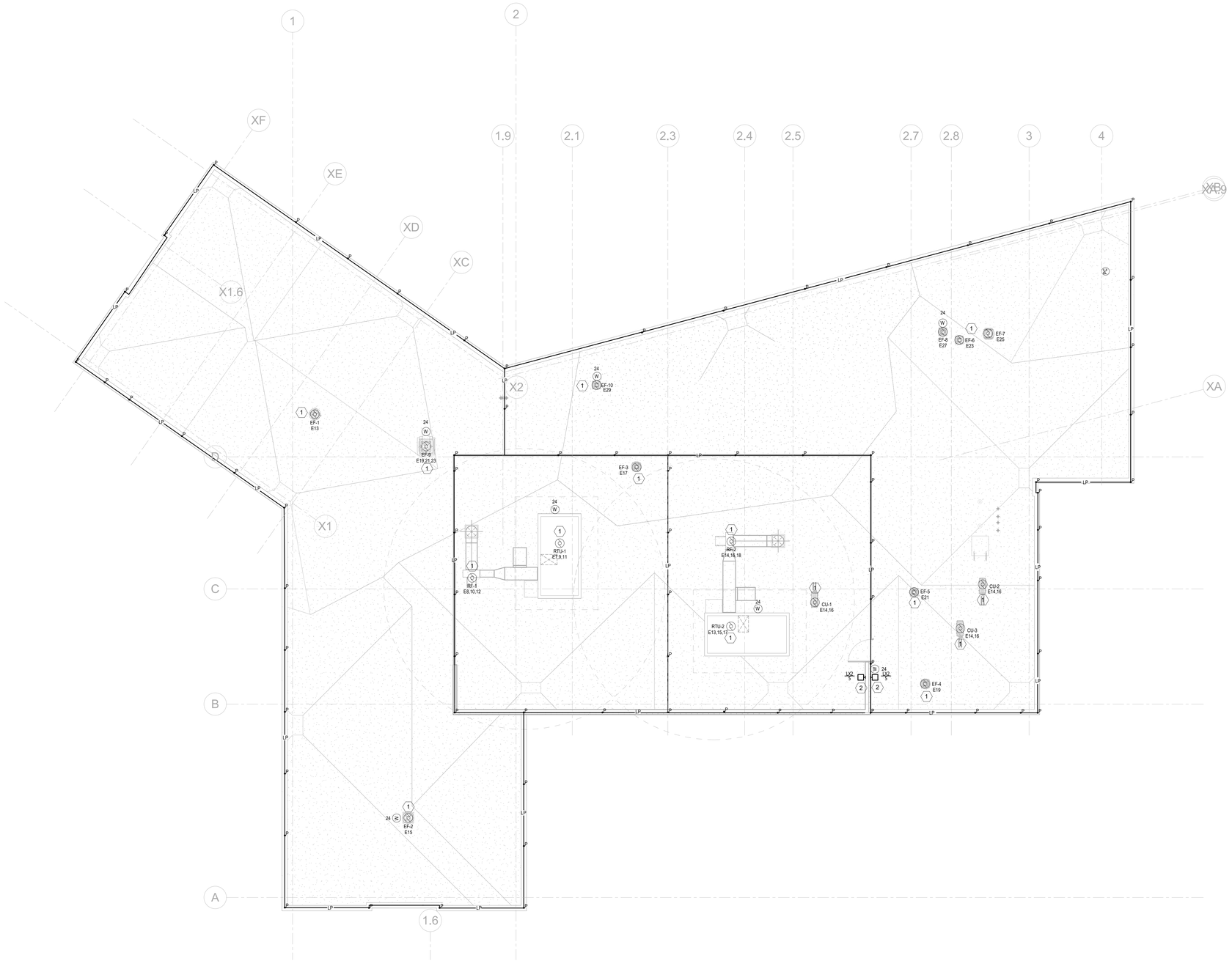
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BRANCH CIRCUIT NOTES ◇:

1. EXTEND BRANCH CIRCUITS IN THIS AREA TO THE FOLLOWING BRANCH PANELBOARDS, UNLESS OTHERWISE NOTED:
   - 120 / 208V PANELBOARDS
   - 1PNL1 - NORMAL POWER
   - 1PEL1 - EQUIPMENT POWER (CIRCUITS PREFIXED WITH "E")
   - 277 / 480V PANELBOARDS
   - 1LNH - NORMAL POWER
2. 1PEH1 - EQUIPMENT POWER (CIRCUITS PREFIXED WITH "E")

KEYED NOTES ⬡:

1. PROVIDE AIR STRIKE TERMINAL ON TOP OF EQUIPMENT AND CONNECT TO LIGHTNING PROTECTION SYSTEM. BOND ALL ASSOCIATED EQUIPMENT TO LIGHTNING PROTECTION SYSTEM.
2. LOCATE SWITCH INSIDE MECHANICAL ROOM AT ROOF HATCH FOR ROOF LIGHTING.



1 ROOF POWER PLAN ◇1
1/8" = 1'-0"

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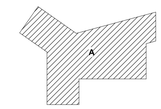
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ROBERT J. GARCIA JR.
E19272
ELECTRICAL
STATE OF CALIFORNIA

KEY PLAN



Drawing Title:

KEY PLAN

ROOF POWER PLAN

Issue Date: 11/19/2020
Project No.: 006240.00 Checked by: WC

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KEYED NOTES ⬡ :

1. DATA DROP FOR BAS CONTROL PANEL. COORDINATE WITH FINAL PANEL LOCATION.
2. PROVIDE (4) 4" EZ PATH (OR EQUAL) FIRE STOPPED SLEEVES FROM IT/DATA ROOM.
3. DATA DROP FOR SECURITY PANEL. COORDINATE WITH FINAL PANEL LOCATION.
4. DATA DROP FOR NURSE CALL PANEL. COORDINATE WITH FINAL PANEL LOCATION.
5. DATA DROP FOR FIRE ALARM PANEL. COORDINATE WITH FINAL PANEL LOCATION.
6. DATA DROP FOR LIGHTING CONTROL PANEL. COORDINATE WITH FINAL PANEL LOCATION.



1 LEVEL 01 SYSTEMS PLAN
1/8" = 1'-0"

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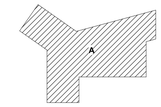
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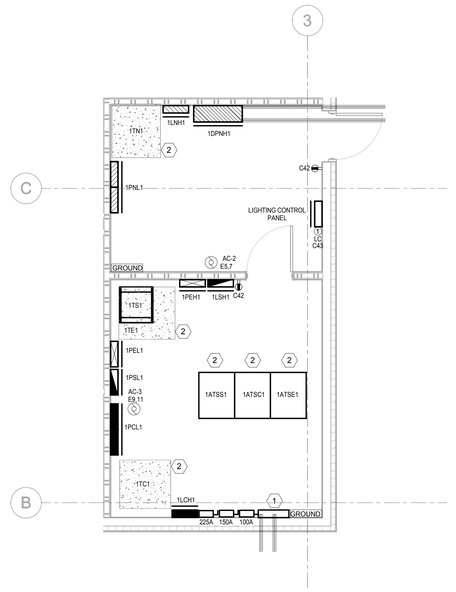
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BRANCH CIRCUIT NOTES ◇:

1. EXTEND BRANCH CIRCUITS IN THIS AREA TO THE FOLLOWING BRANCH PANELBOARDS, UNLESS OTHERWISE NOTED:
   - 120 / 208V PANELBOARDS
   - 1PNL1 - NORMAL POWER
   - 1PSL1 - LIFE SAFETY POWER (CIRCUITS PREFIXED WITH "L")
   - 1PCL1 - CRITICAL POWER (CIRCUITS PREFIXED WITH "C")
   - 1PEL1 - EQUIPMENT POWER (CIRCUITS PREFIXED WITH "E")
   - 277 / 480V PANELBOARDS
   - 1PEH1 - EQUIPMENT POWER (CIRCUITS PREFIXED WITH "E")

KEYED NOTES ⬡:

1. PROVIDE BUS BAR SPLICE POINT FOR ALL GENERATOR FEEDERS WITHIN THE ELECTRICAL ROOM.
2. PROVIDE 4" HOUSEKEEPING PAD FOR EQUIPMENT.



1 ENLARGED NORMAL AND EMERGENCY ELECTRICAL ROOMS ◇1
1/4" = 1'-0"

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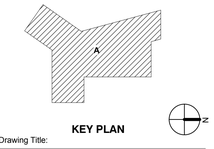
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KEY PLAN

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LOAD SUMMARY		
Panel Name	Total Connected	Total Estimated Demand
1-DISC-NORM-H-1	217991 VA	182314 VA
1ATSC1	31125 VA	27165 VA
1ATSE1	112290 VA	112290 VA
1ATSS1	6948 VA	7310 VA
1DPNH1	217991 VA	182314 VA
1LCH1	31125 VA	27165 VA
1LNH1	3470 VA	4314 VA
1LSH1	6948 VA	7310 VA
1PCL1	27085 VA	22115 VA
1PEH1	112290 VA	112290 VA
1PEL1	20100 VA	20100 VA
1PNL1	64158 VA	40383 VA
1PSL1	5500 VA	5500 VA
1TC1	27085 VA	22115 VA
1TE1	20100 VA	20100 VA
1TN1	64158 VA	40383 VA
1TS1	5500 VA	5500 VA
UTILITY TRANSFORMER	217991 VA	182314 VA

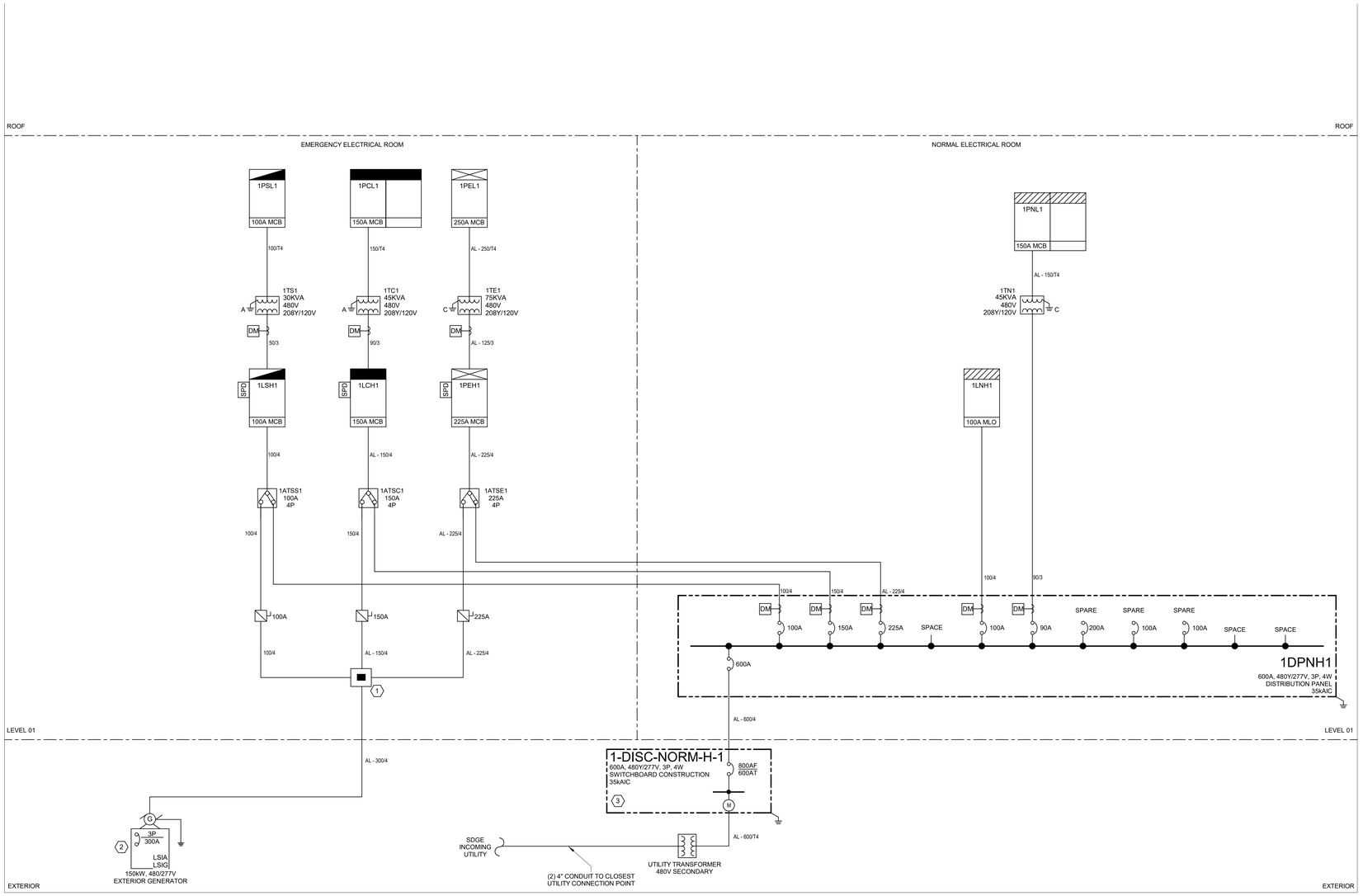
GENERAL NOTES:

A. PROVIDE FULLY RATED SYSTEM.

B. PROVIDE COPPER CONDUCTORS FOR ALL FEEDERS 100A AND LOWER. PROVIDE ALUMINUM CONDUCTORS WITH COPPER GROUND FOR ALL FEEDERS GREATER THAN 100A. REFER TO SPECIFICATIONS FOR CONDUIT TYPE AND OTHER INFORMATION ON WIRING METHODS.

KEYED NOTES ⬡ :

1. PROVIDE BUS BAR SPLICE POINT FOR ALL GENERATOR FEEDERS WITHIN THE ELECTRICAL ROOM.
2. PROVIDE ACCOUSTICAL ENCLOSURE AND INTEGRAL BASE FUEL TANK TO ACCOMODATE 96 HOURS OF CONTINUOUS RUNTIME FOR GENERATOR.
3. PROVIDE PADMOUNT SWITCHBOARD CONSTRUCTION SERVICE ENTRANCE DISCONNECT AS SHOWN. PROVIDE UTILITY METER ACCORDING TO SDGE GUIDELINES. MANUFACTURER TO PAINT SWITCHBOARD TO MATCH THE UTILITY TRANSFORMER. REFER TO SDGE GUIDELINES FOR MORE INFORMATION.



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POWER RISER DIAGRAM

Issue Date: 11/19/2020
Project No.: 006240.00 Checked by: WC

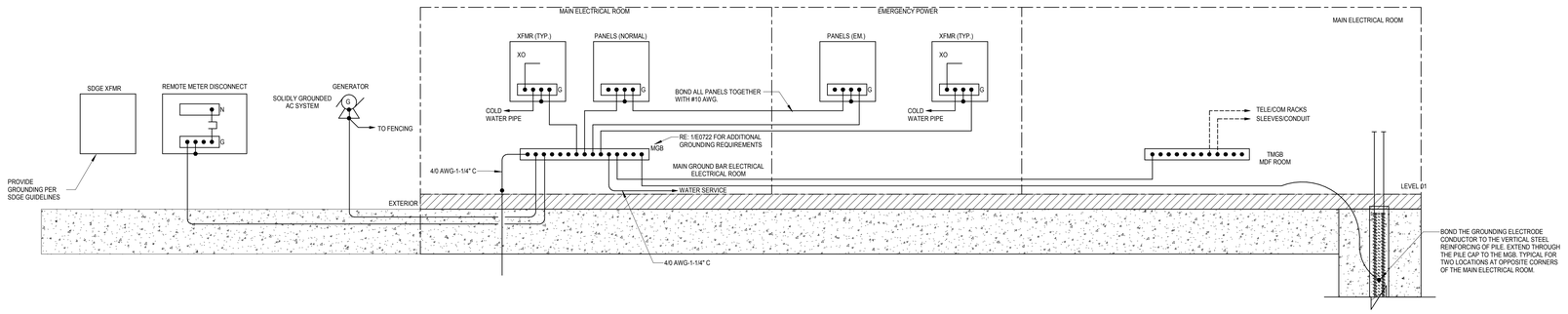
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GENERAL NOTES:

A. REFER TO POWER RISER DIAGRAM ON SHEET E0521 FOR FEEDER DETAILS.



1 GROUNDING SYSTEM RISER DIAGRAM
NTS

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Drawing Title:

GROUNDING RISER DIAGRAM

Issue Date: 06/15/2021

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LUMINAIRE SCHEDULE

TAG	DESCRIPTION	INSTALL METHOD	DEPTH	LIGHT SOURCE SPEC	LIGHT SOURCE QTY	DRIVER SPEC	DRIVER VOLT	INPUT WATTS	MIN. EFF.	SHIELDING/OPTICS	FEATURES/OPTIONS	REFERENCED PRODUCTS	NOTES
LC1	PERIMITER LINEAR CONTINUOUS	RECESSED	<14"	650 LM/L 3500K LED	1	INTEGRAL 1%RANGE 0-10V DIMMING DRIVER	UNV	6.5W/L	100 LM/W	3" REGRESS TO SATIN LENS	EXTRUDED ALUMINUM TRIM. PREPAINTED WHITE HOUSING. ALL SYSTEM COMPONENTS ACCESSIBLE FROM BELOW CEILING	FORUM - FORECAST 3 PER SRT-43PER-TRIM-65-35-SAT-LENGTH-UNV-WH-D10V MARK - APPROVED EQUIVALENT AXIS - APPROVED EQUIVALENT	2,4,5
LC2	CONTINUOUS LINEAR	SURFACE MOUNTED CONTINUOUS CHANNEL	1"	96 LM/L 3500K LED	1	REMOTE 10%RANGE 0-10V DIMMING DRIVER	277V	3 W/L	32 LM/W	FULL OPAL ENCAPUSILATION WITH NO VISIBLE DIODE PATTERN, FULLY DIFFUSE DISTRIBUTION	UV STABALIZED WHITE SILLICONE BODY, TRACE LEAD SIDE POWER CONNECTION, ORDER MOUNTING CHANNELS LONGER THAN NEEDED TO ALLOW FIELD CUTTING TO EXACT LENGTHS REQUIRED FOR CONTINUOUS APPERANCE	TIVOLI - TRACE HORIZONTAL TRACE-S-H-35-24 •CONTINUOUS MOUNTING CHANNEL TRCE-V-SLV-SCHAN-6.5 QTRAN - APPROVED EQUIVALENT LED LINEAR - APPROVED EQUIVALENT	4,6
LC3	RECESSED CURVED LINEAR	RECESSED	<8"	530 LM/L 3500K LED	1	INTEGRAL 1%RANGE 0-10V DIMMING DRIVER	UNV	7W/L	76 LM/W	OPAL DIFFUSER	FACTORY FORMED CURVED HOUSING, TRIM FLANGE POWDERCOAT WHITE, COMPLETELY CLOSED. DAMP RATED. ALL SYSTEM COMPONENTS ACCESSIBLE FROM BELOW CEILING	LIGHTNET - LIQUIDLINE - F3 1QF3OWD-835M-STRUCTURE-LXXXX MARK - APPROVED EQUIVALENT ZANEEN - APPROVED EQUIVALENT	2,4
LD1A	DOWNLIGHT BEHAVORIAL HEALTH RATED	RECESSED	<8"	1500 LM 3500K LED	1	INTEGRAL 10%RANGE 0-10V DIMMING DRIVER	UNV	22W	60 LM/W	REGRESSED DIFFUSE TEMPERED GLASS LENS, FLUSH 1/8" ACRYLIC LENS, WIDE DISTRIBUTION	CORROSION RESISTANT STEEL HOUSING, IP65 RATING, WET LISTED	KENALL - MEDMASTER DOWNLIGHT BHDL6-FF-2FW-22L-35KB-W-FW-G-RIG6-DV-DIM1 OR APPROVED EQUAL	
LD1B	DOWNLIGHT BEHAVORIAL HEALTH RATED	RECESSED	<8"	2300 LM 3500K LED	1	INTEGRAL 10%RANGE 0-10V DIMMING DRIVER	277V	33W	60 LM/W	REGRESSED DIFFUSE TEMPERED GLASS LENS, FLUSH 1/8" ACRYLIC LENS, WIDE DISTRIBUTION	CORROSION RESISTANT STEEL HOUSING, IP65 RATING, WET LISTED	KENALL - MEDMASTER DOWNLIGHT BHDL6-FF-2FW-33L-35KB-W-FW-G-RIG6-DV-DIM1 OR APPROVED EQUAL	
LD2	24" DIA. DOWNLIGHT	RECESSED	<8"	4500 LM 3500K LED	1	INTEGRAL 1%RANGE DALI DIMMING DRIVER	277V	60W	74 LM/W	3/16" THICK HIGH IMPACT CLEAR POLYCARBONATE LENS	HIGH ABUSE FRAME W/ TAMPER RESISTANT FASTENERS POWDER COAT WHITE FINISH, ETL LISTED DAMP LOCATIONS. VERIFY CEILING COMPATIBILITY PRIOR TO RELEASE.	VISA - CM1986-W SYMMETRY CM1986-W-L590H-DALI-TW9016 OR APPROVED EQUAL	7
LD3	45" DIA DOWNLIGHT	RECESSED	<8"	13200 LM 3500K LED	1	INTEGRAL 1%RANGE DALI DIMMING DRIVER	UNV	127W	104 LM/W	3/16" THICK HIGH IMPACT CLEAR POLYCARBONATE LENS	HIGH ABUSE FRAME W/ TAMPER RESISTANT FASTENERS POWDER COAT WHITE FINISH, ETL LISTED DAMP LOCATIONS. VERIFY CEILING COMPATIBILITY PRIOR TO RELEASE.	VISA - CM1978-W-SYMMETRY CM1978-W-L35K-DALI-TW9016 OR APPROVED EQUAL	7
LL1	2' WET LABEL RECESSED LINEAR	RECESSED	<5"	400 LM/FT 3500K LED	1	INTEGRAL 1%RANGE 0-10V DIMMING DRIVER	UNV	4.6W	78 LM/W	5/16" SATINE LENS	EXTRUDED ALUMINUM HOUSING, DIE FORMED WHITE PAINTED REFLECTOR, MODIFIED TO INCLUDE TAMPER RESISTANT FASTENERS, WET RATED	PINNACLE - EDGE EV6 EV6-WET-835-2-IND-FL-U-OL2-1-W OR APPROVED EQUAL	7
LR1	RECESSED LINEAR	RECESSED	<5"	750 LM/FT 3500K LED	1	INTEGRAL 1%RANGE 0-10V DIMMING DRIVER	UNV	6.6W/FT	113 LM/W	FLUSH SATINE LENS	EXTRUDED ALUMINUM TRIM. PREPAINTED WHITE HOUSING. ALL SYSTEM COMPONENTS ACCESSIBLE FROM BELOW CEILING	PINNACLE - EDGE EV4O EV4D-A-35HO-LENGTOS PER PLANS-MOUNTING-U-OL2-CIRCUITING PER PLANS-W MARK - APPROVED EQUIVALENT AXIS - APPROVED EQUIVALENT	
LS1	4' WRAP LENS STRIP	SURFACE/ SUSPEND/ PER PLANS	3"	5000LM LED 80 MIN CRI 4000K	1	INTEGRAL 0-10V DIMMING DRIVER	UNV	53W	94 LM/W	FROSTED LENS, WIDE DISTRIBUTION	DIE-FORMED COLD ROLLED STEEL HOUSING, HIGH GLOSS BAKED WHITE ENAMEL FINISH., PAINT AFTER FABRICATION, PROVIDE CHAIN HANGERS WHERE SUSPENDED	COLUMBIA - LRO LRO-4-40-ML-IED-U OR APPROVED EQUAL	
LT1	2X2 TROFFER BEHAVORIAL HEALTH RATED	RECESSED	<8"	3400 LM 3500K LED	1	INTEGRAL 1%RANGE 0-10V DIMMING DRIVER	UNV	41W	85 LM/W	FULLY LENSED, NO VISIBLE DIODES, SECONDARY 0.25" THICK CLEAR POLYCARBONATE LENSED DOOR	STEEL HOUSING AND DOOR FRAME, TAMPER RESISTAN HARDWARE, POWDERCOAT WHITE FINISH, WET RATED	HEALTHCARE SOLUTIONS MEDIMODE BEHAVORIAL MDMB-22-8-35-SS-F-U OR APPROVED EQUAL	2,7
LT2	2X2 TROFFER	RECESSED	<8"	2600 LM 3500K LED	1	INTEGRAL 1%RANGE 0-10V DIMMING DRIVER	UNV	20W	132 LM/W	PRECISON OPTICS, FULLY LUMINIOUS FACE, NO VISIBLE DIODE PATTERN	EXTRUDED ALUMINUM FRAME BAKED WHITE ENAMEL FINISH	METALUX ENCOUNTER 22EN-LD2-25-UNV-L835-CD-1 OR APPROVED EQUAL	2,7
LT3	2X4 TROFFER	RECESSED	<8"	7400 LM 4000K LED	1	INTEGRAL 1%RANGE 0-10V DIMMING DRIVER	UNV	64W	118 LM/W	PRECISON OPTICS, FULLY LUMINIOUS FACE, NO VISIBLE DIODE PATTERN	EXTRUDED ALUMINUM FRAME BAKED WHITE ENAMEL FINISH	METALUX ENCOUNTER 24EN-LD2-30-UNV-L835-CD-1 OR APPROVED EQUAL	2,7
LT4	1X4 TROFFER	RECESSED	<8"	2500 LM 3500K LED	1	INTEGRAL 10%RANGE 0-10V DIMMING DRIVER	UNV	20.9W	120 LM/W	PRECISON OPTICS, FULLY LUMINIOUS FACE, NO VISIBLE DIODE PATTERN	EXTRUDED ALUMINUM FRAME BAKED WHITE ENAMEL FINISH	METALUX ENCOUNTER 14EN-LD2-25-UNV-L835-CD-1 OR APPROVED EQUAL	2,7
LW1	VANITY SCONCE	SURFACE WALL	NA	1375LM DELIVERED 3500K LED	1	INTEGRAL DRIVER	UNV	25W	55 LM/W	WHITE LUCITE ACRYLIC DIFFUSER	BRUSHED ALUMINUM BODY, DAMP RATED, MOUNT TO 2"X4" SWITCH TO AVOID ADDITIONAL COSRPLATES, DRIVER LOCATED IN OUTLET BOX	MODERN FORMS - SPECTRE 27" WS-24727 OR APPROVED EQUAL	
LW2	NIGHTLIGHT BEHAVORIAL HEALTH RATED	SEMI RECESSED WALL	<4"	38 LM 3500K LED	1	INTEGRAL DRIVER	UNV	2W	12 LM/W	HIGH IMPACT RESISTANT .INJECTION MOLDED DIFFUSE ACRYLIC	DIECAST ALUMINUM HOUSING WITH INTEGRAL REFLECTOR AND HEATSINK, WHITE POWDER COAT FINISH, WET RATED,	KENALL - MEDMASTER SOFTSTEP CONTOUR VO MCSL-VO-MW-2L35K-DV OR APPROVED EQUAL	
LW3	READING LIGHT BEHAVORIAL HEALTH RATED	SEMI RECESSED WALL	<4"	300 LM 3500K LED	1	INTEGRAL 10%RANGE 0-10V DIMMING DRIVER	UNV	6W	50 LM/W	1/4" THICK POLYCARBONATE LENS, WIDE DISTRIBUTION	CAST ALUMINUM HOUSING, POWDERCOAT FINISH, TAMPER RESISTANT SCREWS, IK10+ RATING, LIGATURE RESISTANT 3/n1 MOUNTING, WET RATED, TOUCH OPERATED CYCLE ON TO 100%, 50%, OFF	VISA - GIG CB1800-L35K-HMVOLT-WIDE-FINISH PER ARCHITECT-BH1	

XS1	ILLUMINATED EDGE-LIT"EXIT" SIGN-AC ONLY	CEILING, WALL PENDANT, OR EXTD WALL MTD AS SHOWN	N/A	LED	N/A	N/A	120/ 277V	<5W	N/A	CLEAR ACRYLIC FACE-CODE SIZE "EXIT" LETTERS & DIRECTIONAL CHEVRON(S); ENGRAVED & FILLED (RED)-MYLAR/MIRROR SEPARATOR FOR DOUBLE FACE SIGNS	CONCEALED SHEET METAL HOUSING-BRUSHED ALUMINUM FACE-SINGLE/DOUBLE FACE WITH DIRECTIONAL CHEVRONS PER PLANS	LITHONIA EDG SERIES OR PREAPPROVED EQUAL BY: DUALITE LE/LES SERIES SURE-LITES EUR/EUS SERIES	
XS2	TAMPER RESISTANT EXIT SIGN	CEILING, WALL PENDANT, OR EXTD WALL MTD AS SHOWN	N/A	LED	N/A	N/A	120/ 277V	<5W	N/A	WHITE POLYCARBONATE FACEPLATE, "EXIT" STENCILS-RED LETTERS, CLEAR, UV STABILIZED POLYCARBONATE SHIELD	CAST ALUMINUM HOUSING, NEMA 4X, TAMPER RESISTANT SCREWS, UL LISTED 924 WET LOCATION, EMERGENCY BATTERY BACK UP, VANDAL RESISTANT MOUNTING HARDWARE	LITHONIA LV EL N SERIES OR PREAPPROVED EQUAL BY: KENALL MMEX SERIES SURE-LITES UX SERIES	
LX1	EXTERIOR AREA LIGHT	SURFACE	NA	3800 LM 3500K LED	1	INTEGRAL 10%RANGE 0-10V DIMMING DRIVER	UNV	42W	72 LM/W	PURE ANNODIZED REFLECTOR, SILICONE OPTICAL LENS, CLEAR SAFETY GLASS, ELLIPTICAL SPREAD LENS, 180 DEGREE GLARE SHIELD AIMED SO NO ILLUMINATION IS ABOVE THE HORIZONTAL PLANE BZ-U3-G0	DIE CAST MARINE GRADE ALUMINUM, SILICONE GASKETED, STAINLESS STEEL HARDWARE AND FASTENERS, POWDERCOAT FINISH TBD BY ARCHITECT	BEGA - 84506 •ELLIPTICAL SPREAD LENS - 71113 •GLARE SHIELD - 71111 OR APPROVED EQUAL	8
LX2	EXTERIOR SCONCE	SURFACE WALL	NA	1621 LM LED 4000K 80+ CRI	1	0-10V INTEGRAL DRIVER DIMMING TO 10%	UNV	25W	65 LM/W	REGRESSED CLEAR LENS, FULL CUTOFF TO SOURCE B1-U1-G0	CAST ALUMINUM BODY, SEALED AND GASKETED LENS, WET LISTED IP65, TITLE 24 COMPLIANT, ADA COMPLIANT, POWDERCOAT FINISH PER ARCHITECT	MODERN FORMS - MEGA WS-W70612-TBD	
LX3	EXTERIOR PROJECTOR	POLE 18' TALL POLE MULTIPLE HEADS SPACED 18' APART	NA	1500 LM 3500K LED EACH HEAD HEAD	1	INTEGRAL 10%RANGE 0-10V DIMMING DRIVER	UNV	14W	107 LM/W	DOWNLIGHT ONLY, PRISMATIC TEMPERED GLASS LENSES, GOBO PATTERN PROJECTIONS AIMED SO NO ILLUMINATION IS ABOVE THE HORIZONTAL PLANE B1-U0-G0	MULTI HEAD POLE SYSTEM, NUMBER OF HEADS PER PLANS, EXTRUDED ALUMINUM HEADS AND POLE, GALVANIZED STEEL BASE PLATE, STAINLESS STEEL HARDWARE	NERI - NEBULA NEBULA S-PR-30DEG SPOT-35OOK-1,500 1-10V DIMMING-TRANSPARENT FLAT GLASS +GOBO +30DEG SNOOT OR APPROVED EQUAL	4,8
LX4	EXTERIOR STEPLIGHT	RECESSED	NA	200 LM 3500K LED 90 CRI	1	INTEGRAL DRIVER	120V	4.5W	31 LM/W	TRANSPARENT PROTECTIVE GLASS WITH ASYMMETRICAL DISTRIBUTION B0-U1-G0	DIECAST ALUMINUM BODY, STAINLESS STEEL HARDWARE, VANDAL-PROOF SCREWS, BLACK POWDERCOAT FINISH	ZANEEN - NEW GREEN XS L10R0037 BEGA - APPROVED EQUIVALENT PRISMA - APPROVED EQUIVALENT	
LX5	EXTERIOR BOLLARD	SURFACE	NA	341 LM 3500K LED	1	INTEGRAL 10%RANGE 0-10V DIMMING DRIVER	277V	7.755W	44 LM/W	DIFUSED ACRYLITE LENS, TYPE 4 DISTRIBUTION B0-U1-G1	CAST ALUMINUM BODY WITH GALVANIZED STEEL BASEPLATE, STAINLESS STEEL HARDWARE, WET RATED	LANDSCAPE FORMS - FGP PATH LIGHT AG-400L4-035F-35K-UV1 OR APPROVED EQUAL	8
LX7	EXTERIOR PEDESTRIAN POLE	SURFACE GRADE 12' POLE, LIGHT SOURCE MOUNTED AT 14' AFG	NA	4000 LM 3500K LED	1	INTEGRAL 10%RANGE 0-10V DIMMING DRIVER	UNV	57W	70 LM/W	IMPACT MODIFIED ACRYLITE LENS, TYPE 3 DISTRIBUTION B1-U2-G1	CAST ALUMINUM BODY WITH GALVANIZED STEEL BASEPLATE, STAINLESS STEEL HARDWARE, WWET RATED	LANDSCAPE FORMS - FGP AREA LIGHT AG-500L3-056F-35K-UV1-14-TW1 OR APPROVED EQUAL	8

GENERAL NOTES:

A REFERENCED PRODUCTS ARE INCLUDED HEREIN, OF MANUFACTURERS & PRODUCTS, THAT GENERALLY CONFORM TO THE LUMINAIRE DESIGN INTENTS ESTABLISHED HEREIN, & IN THE PROJECT MANUAL. EQUIVALENT PRODUCTS BY OTHER MANUFACTURERS MAY BE CONSIDERED, PRIOR TO BID.

B DETERMINE SPECIFIC LUMINAIRE PART NUMBERS BASED ON THE REFERENCED PRODUCT SERIES, WRITTEN DESCRIPTIONS & PROJECT MANUAL SPECIFICATIONS.

C INCLUSION HEREIN OF MANUFACTURER'S SERIES &/OR MODEL NUMBERS DOES NOT IMPLY UNCONDITIONAL PRODUCT APPROVAL - MANUFACTURER'S STANDARD PRODUCTS MAY REQUIRE CUSTOM MODIFICATIONS TO MEET THE REQUIREMENTS SPECIFIED HEREIN & IN THE PROJECT MANUAL.

D LISTED SIZES, LAMPING, & TYPES OF LUMINAIRES MAY NOT BE STANDARD PRODUCTS PRODUCED FROM ANY GIVEN MANUFACTURER OR SERIES LISTED. MANUFACTURER'S STANDARD PRODUCTS MAY REQUIRE CUSTOM MODIFICATIONS TO MEET THE DESIGN CRITERIA, DESCRIPTIONS, & REQUIREMENTS SPECIFIED HEREIN & IN THE PROJECT MANUAL.

E ALERT ARCHITECT TO DISCREPANCIES PRIOR TO BID.

F COORDINATE MOUNTING/FLANGE CONDITION WITH REFLECTED CEILING PLAN/ARCHITECT PRIOR TO ORDERING AND INSTALLATION.

G ALL LUMINAIRES TO INCLUDE LED SOURCES WITH 80+ CRI AND RATED MINIMUM 50,000 HOURS AT L70 UNLESS NOTED OTHERWISE.

ABBREVIATIONS:

P-AC	PENDANT AIRCRAFTCABLE	P-RS	PENDANT RIGID STEM	DW	DRYWALL	LG	LAY IN GRID	REC	RECESSED
LM	LUMENS	W	SYSTEM WATTS	UNV	UNIVERSAL 120-277V	K	KELVIN TEMPERATURE	HRS	HOURS
LM/LF	LUMENS PER LINEAR FOOT	LM/W	LUMENS PER WATT	W/L	WATTS PER LINEAR FOOT	CRI	CORRELATED COLOR TEMP	L70	70% RATED LIFE

NOTES:

1 PENDANT MOUNTING HEIGHTS FOR REFERENCE ONLY. FINAL MOUNTING HEIGHTS TO BE COORDINATED WITH ARCHITECT ONSITE DURING FINAL PUNCHLIST. COIL AND SECURE ADDITIONAL WIRING AND SUPPORT CABLES UNTIL FINAL MOUNTING HEIGHTS ARE APPROVED.

2 VERIFY ALL CEILING AND TILE TYPES PRIOR TO RELEASE

3 CONTINUOUS LENSED CORNERS REQUIRED

4 PROVIDE SHOP DRAWINGS AND LAYOUTS WITH SUBMITTALS

5 PROVIDE FIELD CUTTABLE OR TELESCOPING SECTIONS TO ALLOW FIXTURES +/- 6" OF LENGTH TO ALLOW FIXTURES TO BE RELEASED PRIOR TO MEASURING OF FINAL FRAMING.

6 BREAK FIXTURE RUNS AT CORNERS. FIXTURE INSIDE CONTINUOUS CHANNEL ALLOWED TO STOP 2" SHORT OF CORNERS AND END WALLS. MAXIMUM RUN OF SPECIFIED FIXTURE IS 29' TO ALLOW NO BREAKS IN LINEAR RUNS

7 IF ADDITIONAL INFORMATION IS NEEDED FOR PRICING PLEASE SUBMIT RFI

8 ONSITE AIMING REQUIRED

NETWORKED LOW VOLTAGE CONTROL SCHEDULE

Location: MAIN ELEC A124

Relay #	Branch Circuit Panel	Branch Circuit Ckt. #	Sw. ID	Controlled Load Space/Area/Luminaire Tag	Control Schedule	Control Notes	Control Aux. Control
R1	1LNH1	2	aa	CORRIDOR 100, 120, 130	SCH-4	1	M, OS
R2	1PNL1	12	bb	COURTYARD 1-400	SCH-3	1,3	M, PC, TS
R3	1LCH1	C1	cc	TEAM STATION 301	SCH-1	1	M, TS
R4	1LNH1	2	dd	QUIET ACTIVITY 304	SCH-1	1	M, TS
R5	1LNH1	2	ee	ACTIVITY AREA 302	SCH-1	1,5	M, TS, DH
R6	1LNH1	2	ff	ACTIVITY AREA 302	SCH-1	1,5	M, TS, DH
R7	1LNH1	2	gg	PATIENT HALLWAY 310	SCH-1	1	M, TS
R8	1LNH1	2	hh	PATIENT HALLWAY 210	SCH-1	1	M, TS
R9	1LNH1	4	ii	COURTYARD 1-400	SCH-3	1,3	M,PC,TS
R10	1LNH1	2	jj	PATIENT HALLWAY 330	SCH-1	1	M, TS
R11	1LNH1	2	kk	LOBBY 001, WAITING 004	SCH-2	1,2,3,5	M, OS, TS, DH
R12	1LNH1	2	ll	WAITING 004	SCH-2	1,2,3	M, OS, TS
R13	1LNH1	2	mm	EXTERIOR - PEDESTRIAN POLES	SCH-5	1	PC
R14	1LNH1	2	nn	EXTERIOR - PROJECTOR	SCH-3	1	PC
R15	1LNH1	2	oo	EXTERIOR - BOLLARDS	SCH-3	1	PC
R16	1LSH1	L3	pp	EXTERIOR PERIMETER	SCH-6	1	PC
R17	1LSH1	L1	qq	WAITING 1-004	SCH-2	1,2,3,5	M, OS, TS, DH
R18				SPARE			
R19				SPARE			
R20				SPARE			

Design Schedules: (For bidding purposes only. Final scheduling shall be reviewed, approved, changed, &/or amended by Owner/Client)

	Day(s)	ON	OFF	Control Features
SCH-1	ALL	6am	10pm	ALL ON, WITH MANUAL DIMMER OVERRIDE SWITCH. FROM 10PM-6AM REDUCE LIGHT POWER BY 50%.
SCH-2	ALL	6am	10pm	ALL ON, WITH MANUAL DIMMER OVERRIDE SWITCH. REDUCE LIGHT POWER BY 50% WHEN OCCUPANCY SENSOR DETECTS NO OCCUPANT AND TO FULL LIGHT OUTPUT WHEN OCCUPIED. AFTER 10PM, DIM TO 50% UNLESS MOTION IS DETECTED BY VACANCY SENNSOR.
SCH-3	ALL	PC	PC	ON/OFF VIA PHOTOCELL CONTROL AND MUST BE OFF FROM MIDNIGHT TO 6AM.
SCH-4	ALL	OS	OS	LIGHTS ON WHEN OCCUPANT IN SPACE AND REDUCED TO 50% OUTPUT WITHIN 20 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE.
SCH-5	ALL	PC	PC	ON/OFF VIA PHOTOCELL CONTROL AND MUST BE OFF FROM MIDNIGHT TO 6AM WITH MANUAL DIMMER OVERRIDE SWITCH
SCH-6	ALL	PC	PC	ON/OFF VIA PHOTOCELL CONTROL AND REDUCES TO ±50% OUTPUT FROM MIDNIGHT TO 6AM.

Abbreviations:

M Manual Override Switch/Dimmer
OS Occupancy Sensing Device
PC Photocell/Photoelectric Control
TS Time Switch
DH Daylight Harvesting System Sensor - For dimmed control
FA Fire Alarm System Interface per drawings

Notes:

1. Time control/schedule via internal panel clock
2. ON/OFF blink warning prior to scheduled OFF time.
3. Multiple timed OFF sweeps @ 2 hour intervals during OFF schedule
4. Req'd OFF time: (12 noon-12:15PM) Lamps must be turned off for 15 min. once per week
5. ON override via daylight harvesting sensor, when daylight provides greater than 5FC at the perimeter zone.
6. ON daylight level set @ 7:00 AM on June 21st. Off daylight level set @ 3:00 PM on Dec. 21.

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ISSUE FOR PLAN REVIEW BACKCHECK 21 JAN 2022
ISSUE FOR OSHPD SUBMITTAL 19 NOV 2020

Rev.	Description	Date
	AGENCY APPROVAL	

FACILITY #: 12372
OSHPD #:

ARCHITECT SEAL

CONSULTANT SEAL

REGISTERED PROFESSIONAL ENGINEER ROBERT J. GARCIA JR. E19272 ELECTRICAL STATE OF CALIFORNIA

Drawing Title:

LIGHTING SCHEDULES

Issue Date: 11/19/2020
Project No.: 006240.00 Checked by: WC

E0601

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EQUIPMENT CONNECTION / MOTOR CONTROLLER SCHEDULE

EQUIPMENT DESIGNATION	DESCRIPTION	EQUIPMENT / MOTOR DATA: HP	KW	FLA	NORMAL POWER	EMERGENCY POWER	VOLTAGE	PHASE	CONTROLLER DATA: MOUNTING: PACKAGED	SEPARATE	MCC	TYPE	NEMA SIZE	OVERCURRENT PROTECTIVE DEVICE: MCP	FUSE	RATING	SINGLE PHASE PROTECTION	NEMA ENCLOSURE	WEIGHT (LBS)	LOCATION	LOCAL DISCONNECT SWITCH: OVERCURRENT PROTECTION DEVICE: MCP	FUSE	RATING	NEMA ENCLOSURE	WEIGHT (LBS)	LOCATION	SOURCE PROTECTIVE DEVICE: TYPE: MCP	FUSE	BREAKER	POLE AMPS	PANELBOARD OR MCC	WIRING: PHASE: QUANTITY	SIZE	NEUTRAL: QUANTITY	SIZE	GROUND: QUANTITY	SIZE	CONDUIT: QUANTITY	SIZE	CONNECTION TYPE	REMARKS
AC-1	AIR CONDITIONER			11 MCA		X	208	1	PROVIDED BY DIVISION 23																					X	30	1PEL1	2	#10	-	-	1	#10	1	3/4"	DC	
AC-2	AIR CONDITIONER			11 MCA		X	208	1	PROVIDED BY DIVISION 23																					X	30	1PEL1	2	#10	-	-	1	#10	1	3/4"	DC	
AC-3	AIR CONDITIONER			11 MCA		X	208	1	PROVIDED BY DIVISION 23																					X	30	1PEL1	2	#10	-	-	1	#10	1	3/4"	DC	
B-1	BOILER			2.5		X	120	1		X		TS	1		X	20				NU									X	20	1PEL1	1	#12	1	#12	1	3/4"	DC	
B-2	BOILER			2.5		X	120	1		X		TS	1		X	20				NU									X	20	1PEL1	1	#12	1	#12	1	3/4"	DC	
BP-1	BOILER PUMP	1.5				X	480	3	PROVIDED BY DIVISION 23																					X	20	1PEH1	3	#12	-	-	1	#12	1	3/4"	DC	
BP-2	BOILER PUMP	1.5				X	480	3	PROVIDED BY DIVISION 23																					X	20	1PEH1	3	#12	-	-	1	#12	1	3/4"	DC	
CP-1	CIRCULATION PUMP		.055				X	120	1		X		TS	1		X	20				NU									X	20	1PEL1	1	#12	1	#12	1	3/4"	DC	
CU-1	CONDENSING UNIT			1 MCA			X	208	1	PROVIDED BY DIVISION 23																					X	20	1PEL1	2	#12	-	-	1	#12	1	3/4"	DC	
CU-2	CONDENSING UNIT			1 MCA			X	208	1	PROVIDED BY DIVISION 23																					X	20	1PEL1	2	#12	-	-	1	#12	1	3/4"	DC	
CU-3	CONDENSING UNIT			1 MCA			X	208	1	PROVIDED BY DIVISION 23																					X	20	1PEL1	2	#12	-	-	1	#12	1	3/4"	DC	
EF-1	EXHUAST FAN	1/3					X	120	1	PROVIDED BY DIVISION 23																					X	20	1PEL1	1	#12	1	#12	1	#12	1	3/4"	DC	
EF-2	EXHUAST FAN	1/3					X	120	1	PROVIDED BY DIVISION 23																					X	20	1PEL1	1	#12	1	#12	1	#12	1	3/4"	DC	
EF-3	EXHUAST FAN	1/8					X	120	1	PROVIDED BY DIVISION 23																					X	20	1PEL1	1	#12	1	#12	1	#12	1	3/4"	DC	
EF-4	EXHUAST FAN	1/8					X	120	1	PROVIDED BY DIVISION 23																					X	20	1PEL1	1	#12	1	#12	1	#12	1	3/4"	DC	
EF-5	EXHUAST FAN	1/8					X	120	1	PROVIDED BY DIVISION 23																					X	20	1PEL1	1	#12	1	#12	1	#12	1	3/4"	DC	
EF-6	EXHUAST FAN	1/8					X	120	1	PROVIDED BY DIVISION 23																					X	20	1PEL1	1	#12	1	#12	1	#12	1	3/4"	DC	
EF-7	EXHUAST FAN	1/8					X	120	1	PROVIDED BY DIVISION 23																					X	20	1PEL1	1	#12	1	#12	1	#12	1	3/4"	DC	
EF-8	EXHUAST FAN	1/3					X	120	1	PROVIDED BY DIVISION 23																					X	20	1PEL1	1	#12	1	#12	1	#12	1	3/4"	DC	
EF-9	EXHUAST FAN	3/4					X	480	3	PROVIDED BY DIVISION 23																					X	20	1PEH1	3	#12	-	-	1	#12	1	3/4"	DC	
EF-10	EXHUAST FAN	1/3					X	120	1	PROVIDED BY DIVISION 23																					X	20	1PEL1	1	#12	1	#12	1	#12	1	3/4"	DC	
FBF-1	FILTER BOOSTER FAN	1/2					X	480	3	PROVIDED BY DIVISION 23																					X	20	1PEH1	3	#12	-	-	1	#12	1	3/4"	DC	
GWH-1	GAS WATER HEATER			10			X	120	1		X		TS	1		X	20				NU									X	20	1PEL1	1	#12	1	#12	1	3/4"	DC	
HWP-1	HOT WATER PUMP	2					X	480	3	PROVIDED BY DIVISION 23																					X	20	1PEH1	3	#12	-	-	1	#12	1	3/4"	DC	
HWP-2	HOT WATER PUMP	2					X	480	3	PROVIDED BY DIVISION 23																					X	20	1PEH1	3	#12	-	-	1	#12	1	3/4"	DC	
RF-1	RELIEF FAN	3					X	480	3	PROVIDED BY DIVISION 23																					X	20	1PEH1	3	#12	-	-	1	#12	1	3/4"	DC	
RF-2	RELIEF FAN	3					X	480	3	PROVIDED BY DIVISION 23																					X	20	1PEH1	3	#12	-	-	1	#12	1	3/4"	DC	
RTU-1	ROOF TOP UNIT			37.6 MCA		X	480	3	PROVIDED BY DIVISION 23												X		40	3R		NU			X	40	1PEH1	3	#6	-	-	1	#10	1	3/4"	DC	
RTU-2	ROOF TOP UNIT			47.7 MCA		X	480	3	PROVIDED BY DIVISION 23												X		50	3R		NU			X	50	1PEH1	3	#6	-	-	1	#10	1	3/4"	DC	
SEP-1	SEWAGE EJECTOR PUMP			12		X	208	1		X		TS	3R		X	20				NU									X	20	1PEL1	2	#12	-	-	1	#12	1	3/4"	DC	

CONTROLLER TYPE:
- AL ACROSS THE LINE H-O-A
- ALC ACROSS THE LINE COMBINATION DISCONNECT H-O-A
- ALO ACROSS THE LINE COMBINATION DISCONNECT O-H
- RV REDUCED VOLTAGE
- RVC REDUCED VOLTAGE COMBINATION DISCONNECT
- 2S TWO SPEED
- VSD VARIABLE SPEED DRIVE
- TS FRACTIONAL HP MANUAL STARTER

*MINIMUM MOTOR CIRCUIT PROTECTOR (MCP) FRAME SIZE SHALL BE BASED ON LISTED POLE AMPS

GENERAL NOTES:
- A. FINAL CONNECTIONS TO ALL EQUIPMENT SHALL BE MADE BY DIVISION 26 INTERCONNECT ALL ASSOCIATED EQUIPMENT ELECTRICAL DEVICES.
- B. VERIFY ALL RECEPTACLE TYPES AND BRANCH WIRING WITH EQUIPMENT SUPPLIER FOR COORDINATION OF EQUIPMENT PLUGS AND WIRING PRIOR TO INSTALLATION

CONNECTION TYPE:
- CP CONTROL PANEL - MAKE DIRECT CONNECTION
- DR STANDARD NEMA 5-20R DUPLEX RECEPTACLE
- JB JUNCTION BOX
- DC DIRECT CONNECTION TO EQUIPMENT
- RC RECEPTACLE TO MATCH EQUIPMENT PLUG

LOCATION
- NU NEAR UNIT
- OU ON UNIT
- PCU PACKAGE CONTROL UNIT
- MCC MOTOR CONTROL CENTER

REMARKS:

FEEDER DESIGNATIONS - COPPER CONDUCTOR

FEEDER ID	AMPS	PHASE WIRES (AWG)	NEUTRAL WIRES (AWG)	GND (AWG)	MIN. CONDUIT SIZE
50/3	50	(3)#6		#10	1
60/3	60	(3)#4		#10	1-1/4
90/3	90	(3)#2		#8	1-1/4
100/4	100	(3)#1	(1)#1	#8	1-1/2

FEEDER DESIGNATIONS - ALUMINUM CONDUCTORS WITH COPPER GROUND

FEEDER ID	AMPS	PHASE WIRES (AWG)	NEUTRAL WIRES (AWG)	GND (AWG) **	MIN. CONDUIT SIZE
AL-125/3	125	(3)2/0		6	2
AL-150/4	150	(3)3/0	(1)3/0	6	2
AL-200/4	200	(3)250KCMIL	(1)250KCMIL	6	3
AL-225/4	225	(3)300KCMIL	(1)300KCMIL	4	3
AL-250/4	250	(3)350KCMIL	(1)350KCMIL	4	3
AL-300/4	300	(3)500KCMIL	(1)500KCMIL	4	3 1/2
AL-400/4	400	(6)250KCMIL	(2)250KCMIL	(2)2	(2)3 1/2
AL-600/4	600	(6)500KCMIL	(2)500KCMIL	(2)1	(2)4

TRANSFORMER SECONDARY FEEDER DESIGNATIONS - ALUMINUM CONDUCTORS WITH COPPER GROUND

FEEDER ID	XFMR SIZE (KVA)	PHASE WIRES (AWG)	NEUTRAL WIRES (AWG)	SUPPLY-SIDE BONDING JUMPER (AWG)	MIN. CONDUIT SIZE	GEC **
AL-100/T4	30	(3)1/0	(1)1/0	8	2	A
AL-150/T4	45	(3)3/0	(1)3/0	6	2	B
AL-250/T4	75	(3)350KCMIL	(1)350KCMIL	2	3	C
AL-400/T4	112.5	(6)250KCMIL	(2)250KCMIL	(2)2	(2)3	C
AL-600/T4	225	(6)500KCMIL	(2)500KCMIL	(2)1	(2)4	D

CONDUIT METRIC CONVERSIONS:

INCHES	MM
1/2	16
3/4	21
1	27
1-1/4	32
1-1/2	41
2	53
2-1/2	63
3	78
4	103
5	129
6	155

CONDUCTOR METRIC CO VERSIONS:

AWG	SQMM
10	5.26
8	8.38
6	13.3
4	21
3	26
2	34
1	42
1/0	54
2/0	67
3/0	85
4/0	107
250	127
300	152
350	178
400	203
500	254

SECONDARY DERIVED SYSTEM GROUNDING ELECTRODE CONDUCTOR (GEC):

TAG	CONDUCTOR (AWG)	MIN. CONDUIT SIZE (IN)
A	(1)8	1/2
B	(1)6	1/2
C	(1)2	1/2
D	(1)1/0	3/4
E	(1)2/0	1
F	(1)3/0	1
G	(1)250KCMIL	1-1/4
H	(1)400KCMIL	1-1/4
I	(1)500KCMIL	1-1/2

TRANSFER SWITCH SCHEDULE

TRANSFER SWITCH DESIGNATION	TYPE: AUTOMATIC	BYPASS ISOLATION	CTTS	MANUAL	VOLTAGE	SWITCHED POLES	AMPS	WCR (K=1000)	FEATURES: EXISTING	PRIORITY NUMBER	GROUND BUS	MOTOR LOAD	100% NEUTRAL	200% NEUTRAL	SOLID NEUTRAL	> 3 CYCLE WITHSTAND	NEMA ENCLOSURE	WEIGHT (LBS)	REMARKS
1ATSC1		X			480V	4	150	35					X		X		1	950	
1ATSE1		X			480V	4	225	35				X	X		X		1	950	
1ATSS1		X			480V	4	100	35					X		X		1	950	

REMARKS:

FAULT CURRENT SCHEDULE

DEVICE	FAULT AT DEVICE	VOLTAGE	FEEDER: SIZE	FEEDER: LENGTH	TRANSFORMER: KVA	TRANSFORMER: Z%	FAULT AT PRIMARY
UTILITY TRANSFORMER	30,000	480V			225	2	
1-DISC-NORMAH-1	28,204	480V	(2)500kcmil AL	25'			
1DPNH1	19,222	480V	(2)500kcmil AL	178'			
1ATSC1	15,809	480V	3/0 AL	30'			
1LCH1	13,955	480V	3/0 AL	21'			
1TC1	3,284	480V	#2	17'	45	3.3666	12,195
1PCL1	3,080	208V	3/0 AL	19'			
1ATSE1	16,594	480V	300kcmil AL	33'			
1PEH1	15,081	480V	300kcmil AL	23'			
1TE1	5,404	480V	2/0 AL	15'	75	3.2041	13,653
1PEL1	5,149	208V	350kcmil AL	15'			
1ATSS1	15,523	480V	#1	28'			
1LSH1	13,776	480V	#1	17'			
1TS1	1,806	480V	#6	16'	30	4.269	10,354
1PSL1	1,730	208V	#1	18'			
1LNH1	17,432	480V	#1	13'			
1TN1	3,398	480V	#2	17'	45	3.3666	16,442
1PNL1	3,228	208V	3/0 AL	14'			

VOLTAGE DROP SCHEDULE

DEVICE	FEEDER: VOLTAGE DROP	FEEDER: WIRE SIZE
UTILITY TRANSFORMER	0.00 %	
1-DISC-NORMAH-1	0.04 %	(2)500kcmil AL
1DPNH1	0.30 %	(2)500kcmil AL
1ATSC1	0.35 %	3/0 AL
1LCH1	0.38 %	3/0 AL
1TC1	0.41 %	#2
1PCL1	0.52 %	3/0 AL
1ATSE1	0.41 %	300kcmil AL
1PEH1	0.49 %	300kcmil AL
1TE1	0.52 %	2/0 AL
1PEL1	0.56 %	350kcmil AL
1ATSS1	0.31 %	#1
1LSH1	0.31 %	#1
1TS1	0.31 %	#6
1PSL1	0.32 %	#1
1LNH1	0.31 %	#1
1TN1	0.34 %	#2
1PNL1	0.45 %	3/0 AL

TRANSFORMER SCHEDULE

TRANSFORMER DESIGNATION	TYPE: MINERAL OIL	SILICONE	R TEMP	SEED OIL	DRY	STAND ALONE	INTEGRAL PRIMARY SUBSTATION	INTEGRAL LBS	MV PADMOUNT	CAST COIL	VPI	HARMONIC SUPP. (HS)	HARMONIC COND. (HC)	HARMONIC FILTER (HFT)	ISOLATION DRY	PHASE	PRIMARY VOLTAGE	SECONDARY VOLTAGE	K RATING	0° OR 30° SHIFT	KVA (OUTSIDE AIR)	KVA (FORCED AIR)	FEATURES: TP - 1	CSL - 3	FA PROVISIONS	MOUNTING: EXTERIOR PAD	FLOOR	WALL	TRAPEZE	WEIGHT (LBS)	REMARKS
1TS1					X											3	480V	208Y/120V	1		30								X	303	
1TC1					X											3	480V	208Y/120V	1		45						X			369	
1TE1					X											3	480V	208Y/120V	1		75						X			515	
1TN1					X											3	480V	208Y/120V	1		45						X			389	

REMARKS:

GENERAL NOTES:
- A. K-1 UNLESS NOTED OTHERWISE.

WIRING TERMINATION SCHEDULE

ID	DESCRIPTION	VOLTAGE	PHASE	SOURCE PROTECTIVE DEVICE: TYPE: FUSE	BREAKER	POLE AMPS	POLES	PHASE: QUANTITY	SIZE	NEUTRAL: QUANTITY	SIZE	GROUND: QUANTITY	SIZE	CONDUIT: QUANTITY	SIZE	CONNECTION TYPE	SPECIAL MOUNTING HEIGHT	REMARKS
BAS	BUILDING AUTOMATION SYSTEM PANEL	120	1		X	20A	1	1	12	1	12	1	12	1	3/4	JB	CWM	
COF	COFFEE BREWER	120	1		X	20A	1	1	12	1	12	1	12	1	3/4	D	SEE ELEVATIONS	
COP	COPIER	120	1		X	20A	1	1	12	1	12	1	12	1	3/4	DR	SEE ELEVATIONS	
DRY	DRYER	208	1		X	20A	2	2	12	-	-	1	12	1	3/4	D	CWM	
DW	DISHWASHER	120	1		X	20A	1	1	12	1	12	1	12	1	3/4	D	SEE ELEVATIONS	GFI
EVPS	ELECTRIC VEHICLE POWER STATION	208	1		X	40A	2	2	3	-	-	1	10	1	1	DC	CWM	GFI
EWC	ELECTRIC WATER COOLER	120	1		X	20A	1	1	12	1	12	1	12	1	3/4	JB	SEE ELEVATIONS	GFI
FACU	FIRE ALARM CONTROL UNIT	120	1		X	20A	1	1	12	1	12	1	12	1	3/4	JB	CWM	
FRZ	FREEZER	120	1		X	20A	1	1	12	1	12	1	12	1	3/4	DR	SEE ELEVATIONS	GFI
GD	GARBAGE DISPOSAL	120	1		X	20A	1	1	12	1	12	1	12	1	3/4	D	CWM	GFI
ICE	ICE MACHINE	120	1		X	20A	1	1	12	1	12	1	12	1	3/4	DR	SEE ELEVATIONS	GFI
LC	LIGHTING CONTROL PANEL	120	1		X	20A	1	1	12	1	12	1	12	1	3/4	JB	CWM	
MD	METAL DETECTOR	120	1		X	20A	1	1	12	1	12	1	12	1	3/4	D	CWM	
MED	MEDICATION PYXIS DISPENSER	120	1		X	20A	1	1	12	1	12	1	12	1	3/4	DR	CWM	
MW	MICROWAVE	120	1		X	20A	1	1	12	1	12	1	12	1	3/4	DR	SEE ELEVATIONS	
NEC	NURSE CALL EQUIPMENT CABINET	120	1		X	20A	1	1	12	1	12	1	12	1	3/4	DR	CWM	
POD	POWER OPERATED DOOR	120	1		X	20A	1	1	12	1	12	1	12	1	3/4	JB	CEILING	
RACK	TELECOM RACK	208	1		X	20A	2	2	12	-	-	1	12	1	3/4	RC	CWM	
REF	REFRIGERATOR	120	1		X	20A	1	1	12	1	12	1	12	1	3/4	DR	SEE ELEVATIONS	GFI
SAP	SECURITY ALARM CONTROL PANEL	120	1		X	20A	1	1	12	1	12	1	12	1	3/4	JB	CWM	
SD	SMOKE DAMPER	120	1		X	20A	1	1	12	1	12	1	12	1	3/4	D	CWM	
SOL	SOLENOID VALVE	120	1		X	20A	1	1	12	1	12	1	12	1	3/4	JB	CWM	
TV	TELEVISION	120	1		X	20A	1	1	12	1	12	1	12	1	3/4	DR	SEE ELEVATIONS	
WASH	WASHING MACHINE	120	1		X	20A	1	1	12	1	12	1	12	1	3/4	DR	CWM	GFI

ABBREVIATIONS:
- MC OUTLET MOUNTED IN MILLWORK. FEED FROM FLOOR OR WALL AS REQUIRED.
- GFI GFI OUTLET
- IG ISOLATED GROUND OUTLET
- AC ABOVE COUNTER OUTLET. COORDINATE HEIGHT WITH ARCHITECTURAL ELEVATION
- N NORMAL OUTLET MOUNTING HEIGHT. REFER TO SPECIFICATION 262716.
- WM OUTLET MOUNTED IN MULTIOUTLET ASSEMBLY.
- V VARIES. (VERIFY).
- CWM COORDINATE WITH EQUIPMENT MANUFACTURER.

CONNECTION TYPE:
- CP CONTROL PANEL - MAKE DIRECT CONNECTION
- D LOCAL DISCONNECT SWITCH MOUNTED NEAR UNIT. WIRE FROM DISCONNECT TO EQUIPMENT.
- DR STANDARD NEMA 5-20R DUPLEX RECEPTACLE
- JB JUNCTION BOX
- DC DIRECT CONNECTION TO EQUIPMENT OR PROVIDE RECEPTACLE TO MATCH EQUIPMENT PLUG.
- RC RECEPTACLE TO MATCH EQUIPMENT.

MULTI-SERVICE BOX SCHEDULE

I.D.	LOCATION / TYPE: FLOORBOX, SINGLE SERVICE	FLOORBOX, MULTI-SERVICE	POKE THRU - SINGLE SERVICE (4")	POKE THRU - MULTI-SERVICE (6" OR 8")	CONDUIT STUB - FLOOR TRENCH	CONDUIT STUB - FLOOR CORE	WALLBOX	WALL - MULTI-SERVICE	TABLE TOP - MULTI-SERVICE (BY OTHERS)	ACCESS: CONCEALED	EXPOSED	COVER: FLUSH	SEMI SURFACE	RECESSED	TOMBSTONE	ROUND	SQUARE	RECTANGLUAR	COVER FINISH	COVER COLOR	MATERIAL: CAST IRON	STAMPED STEEL	NON-METALLIC	CARPET FLANGE	TILE FLANGE	DEVICES / FITTINGS: # OF GANGS	RECEPTACLES (3/4" CONDUIT)	TELE/DATA FACEPLATES (MULTIPLE 1" CONDUITS)	AV FACEPLATES (MULTIPLE 1" CONDUITS)	"WHIP" - FURNITURE FEED	"WHIP" - MILLWORK FEED	FEATURES: ROUND	SQUARE	RECTANGLE	FIRE CLASSIFIED	MAXIMUM DEPTH	REMARKS
WEW1								X			X							X					X								X								

FINISHES:
- AL = ALUM
- BR = BRASS
- BZ = BRONZE
- PT = PAINT (POLYESTER POWDER COAT)

COLORS:
- G = GREY
- B = BLACK
- W = WHITE

GENERAL NOTES:
- A. FIRESTOP ALL FLOOR PENETRATIONS.

REMARKS:
1.
2.

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Rev.	Description	Date
	ISSUE FOR PLAN REVIEW BACKCHECK	21 JAN 2022
	OSHPD PLAN REVIEW UPDATE	17 SEP 2021
	ISSUE FOR OSHPD SUBMITTAL	19 NOV 2020
	AGENCY APPROVAL	

FACILITY #: 12372
OSHPD #:

ARCHITECT SEAL

CONSULTANT SEAL

REGISTERED PROFESSIONAL ENGINEER ROBERT J. GARRA E19272 ELECTRICAL STATE OF CALIFORNIA

Drawing Title:

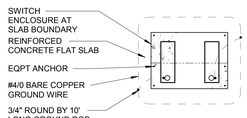
ELECTRICAL SCHEDULES

Issue Date: 11/19/2020
Project No.: 006240.00 Checked by: WC

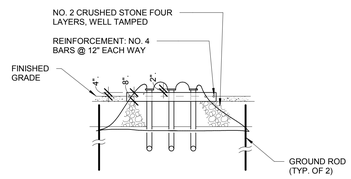
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PLAN



SECTION

NOTES:

1. TOP EDGE AND CORNERS OF CONCRETE PAD SHALL BE CHAMFERED.
2. CONCRETE PAD SHALL BE 3,000 PSI, 8" THICK MIN.
3. VERIFY DIMENSIONS WITH EQUIPMENT MANUFACTURER PRIOR TO CONSTRUCTION.
4. SECURE SWITCH WITH (6) 1/2" DIA HILTI KB-TZ ANCHOR BOLTS WITH 3-1/4" MIN EMBED (ICC ESR 1917), (1) PER CORNER OF MANUFACTURER PROVIDED MOUNTING BASE PLATE. INSTALLATION TORQUE: 40 FT-LB.
5. COORDINATE CONDUIT PENETRATIONS SIZES, QUANTIITY AND LOCATIONS ONSITE.
6. COORDINATE WITH SDGE.

11 SWITCHBOARD PAD DETAIL
NTS

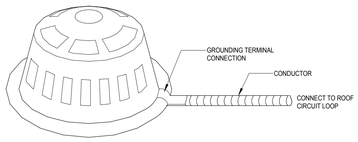
PLAN

SECTION

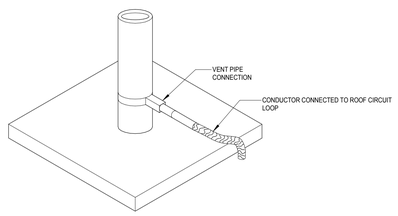
NOTES:

1. TOP EDGE AND CORNERS OF CONCRETE PAD SHALL BE CHAMFERED.
2. CONCRETE PAD SHALL BE 3,000 PSI, 12" THICK MIN.
3. VERIFY DIMENSIONS WITH SDGE PRIOR TO CONSTRUCTION.
4. SECURE TRANSFORMER WITH (6) 1/2" DIA HILTI KB-TZ ANCHOR BOLTS WITH 3-1/4" MIN EMBED (ICC ESR 1917) SPACED EVENLY ALONG EDGE.
5. COORDINATE CONDUIT PENETRATIONS SIZES, QUANTIITY AND LOCATIONS ONSITE.
6. COORDINATE AND INSTALL PAD TO SDGE SPECIFICATIONS.

12 TRANSFORMER PAD
NTS

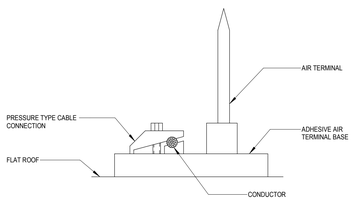


ROOF DRAIN BOND DETAIL

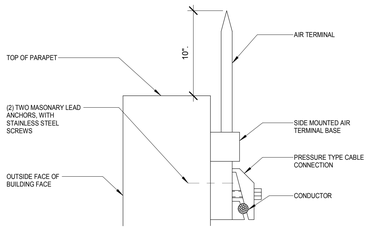


VENT PIPE THRU ROOF BOND DETAIL

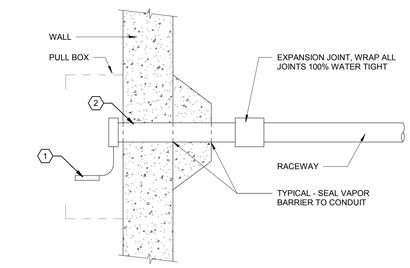
8 LIGHTNING PROTECTION SYSTEM ROOF DRAIN VENT PIPE BOND
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9 LIGHTNING PROTECTION SYSTEM ROOF MOUNTED AIR TERMINAL
NTS



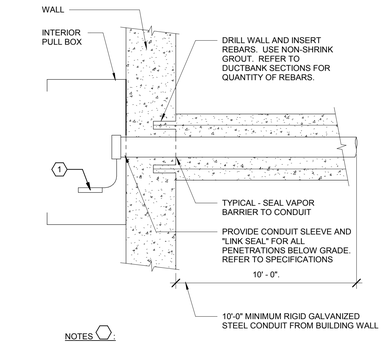
10 LIGHTNING PROTECTION SYSTEM PARAPET MOUNTED AIR TERMINAL
NTS



NOTES:

1. AT EACH CONDUIT, PROVIDE AN ENGRAVED PLASTIC NAMEPLATE, INDICATING CONDUIT NO., AND ATTACH TO CONDUIT WITH NYLON CABLE TIE.
2. PROVIDE CONDUIT SLEEVE AND "LINK SEAL" FOR ALL PENETRATIONS BELOW GRADE.

5 DIRECT BURIAL CONDUIT PENETRATION INTO BUILDING
NTS

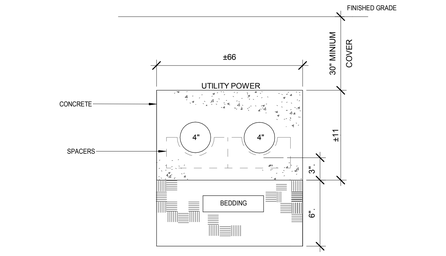


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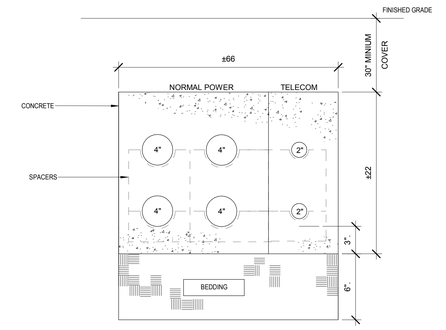
1. AT EACH CONDUIT, PROVIDE AN ENGRAVED PLASTIC NAMEPLATE, INDICATING CONDUIT NO., AND ATTACH TO CONDUIT WITH NYLON CABLE TIE.

6 CONCRETE ENCASED CONDUIT PENETRATION INTO BUILDING
NTS

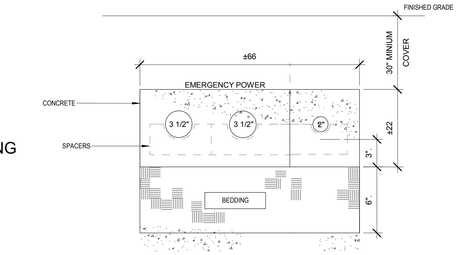
7 EVPS FOUNDATION DETAIL
NTS



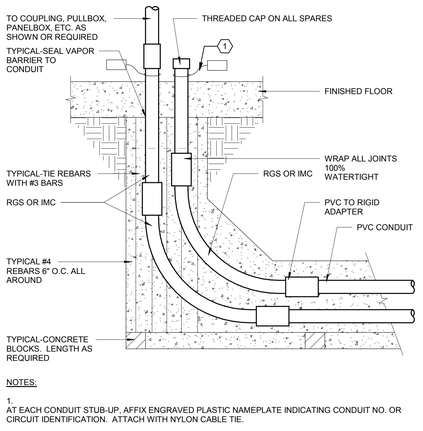
1 DUCT BANK - UTILITY
NTS



2 DUCT BANK - NORMAL
NTS



3 DUCT BANK - EMERGENCY
NTS



NOTES:

1. AT EACH CONDUIT STUB-UP, AFFIX ENGRAVED PLASTIC NAMEPLATE INDICATING CONDUIT NO. OR CIRCUIT IDENTIFICATION. ATTACH WITH NYLON CABLE TIE.

4 CONDUIT STUB-UP INSIDE BUILDING
NTS

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Rev.	Description	Date
	ISSUED FOR PLAN REVIEW	27 OCT 2021
	AGENCY APPROVAL	

ARCHITECT SEAL

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REGISTERED PROFESSIONAL ENGINEER ROBERT J. GARCIA JR. E19272 ELECTRICAL STATE OF CALIFORNIA

Drawing Title:

ELECTRICAL DETAILS

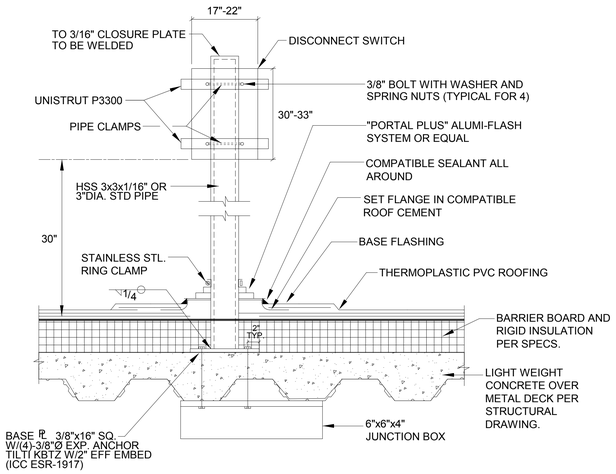
Issue Date: 06/15/2021

Project No.: 006240.00 Checked by: WC

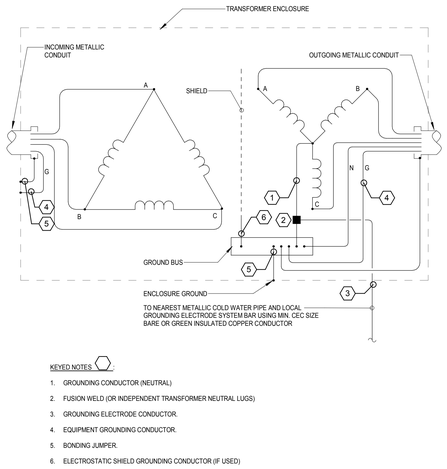
E0721

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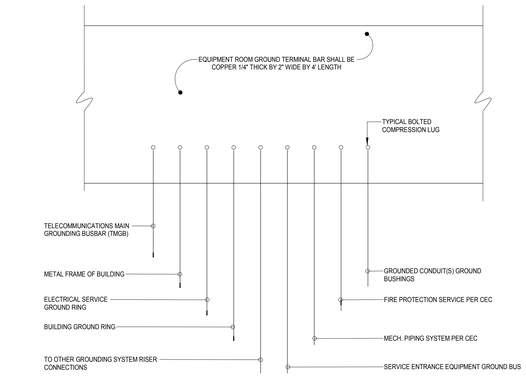
7 DISCONNECT SUPPORT AND FLASHING DETAIL
NTS



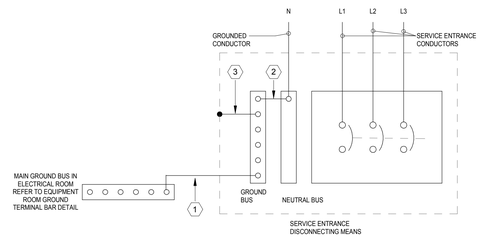
KEYED NOTES

1. GROUNDING CONDUCTOR (NEUTRAL)
2. FUSION WELD (OR INDEPENDENT TRANSFORMER NEUTRAL LUGS)
3. GROUNDING ELECTRODE CONDUCTOR.
4. EQUIPMENT GROUNDING CONDUCTOR.
5. BONDING JUMPER.
6. ELECTROSTATIC SHIELD GROUNDING CONDUCTOR (IF USED)

4 TRANSFORMER GROUNDING
NTS



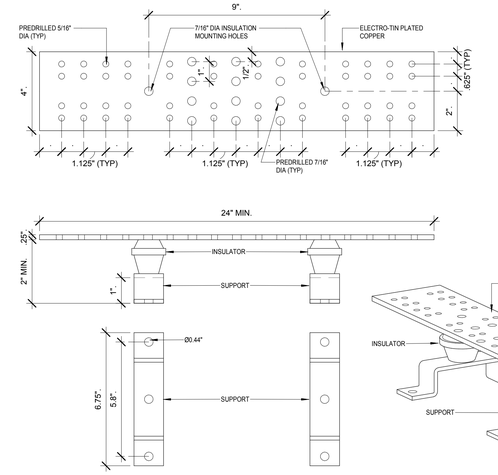
1 EQUIPMENT ROOM GROUND TERMINAL BAR
NTS



KEYED NOTES

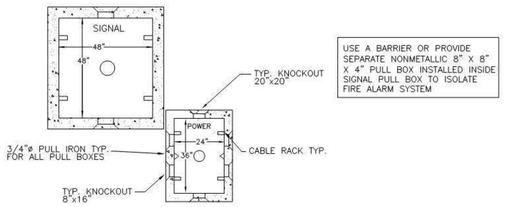
1. GROUNDING ELECTRODE CONDUCTOR. PROVIDE INSULATED COPPER CONDUCTOR PER CEC. INSTALL IN RIGID RACEWAY.
2. MAIN BONDING JUMPER. PROVIDE INSULATED COPPER CONDUCTOR.
3. BOND GROUND BUS TO EQUIPMENT ENCLOSURE WITH BARE COPPER BONDING JUMPER.

5 SERVICE ENTRANCE GROUNDING
NTS



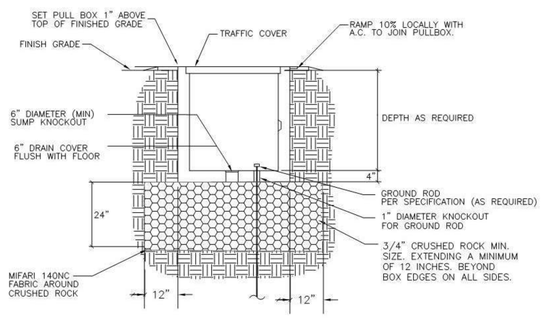
2 MAIN GROUNDING BUSBAR (GROUND)
NTS

1. IN THE PRECAST CONCRETE PULL BOXES FURNISH AND INSTALL CABLE RACKS ON WALLS INDICATED. EACH RACK SHALL BE EQUIPPED WITH THREE PORCELAIN CABLE HOLDERS ON A VERTICAL STEEL MOUNTING BAR. BOLT HOLES SHALL BE PRE-CAST PULL BOXES QUICKSET UTILITY VAULT SERIES TPB-1001 OR EQUAL WITH STAINLESS STEEL FLAT HEAD SCREWS AND SELF CLEANING HOLES. LOOP ALL CABLES AROUND THE LONGEST LENGTH IN THE PULL BOX.

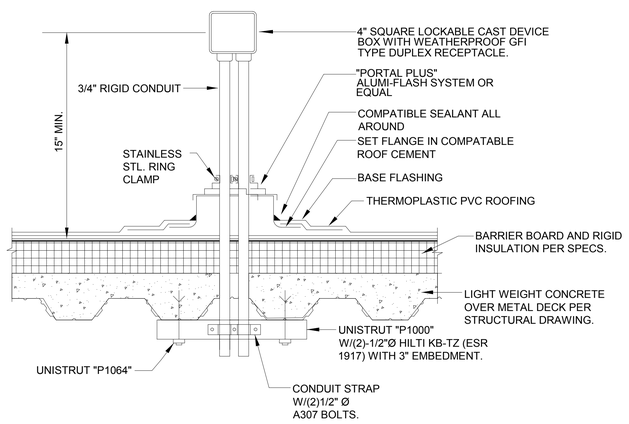


USE A BARRIER OR PROVIDE SEPARATE NONMETALLIC 8" X 8" X 4" PULL BOX INSTALLED INSIDE SIGNAL PULL BOX TO ISOLATE FIRE ALARM SYSTEM

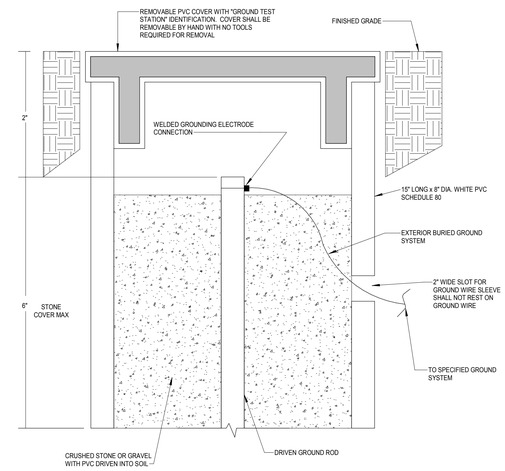
TYPICAL LAYOUT



8 PRE-CAST CONCRETE PULL BOXES DETAILS
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6 ROOF OUTLET MOUNTING DETAIL
NTS



3 GROUND TEST STATION WELL
NTS

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ARCHITECT SEAL

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REGISTERED PROFESSIONAL ENGINEER ROBERT J. GARCIA JR. E19272 ELECTRICAL STATE OF CALIFORNIA

Drawing Title:

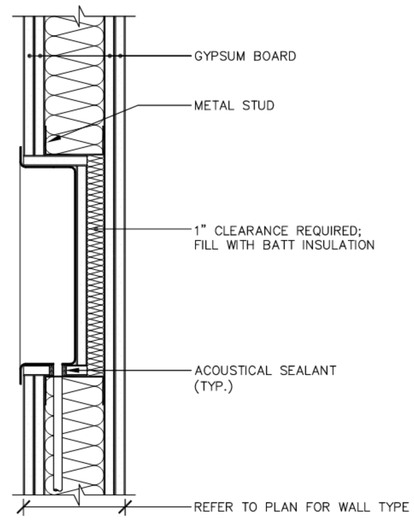
ELECTRICAL DETAILS

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E0722

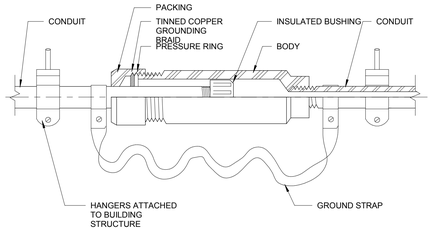
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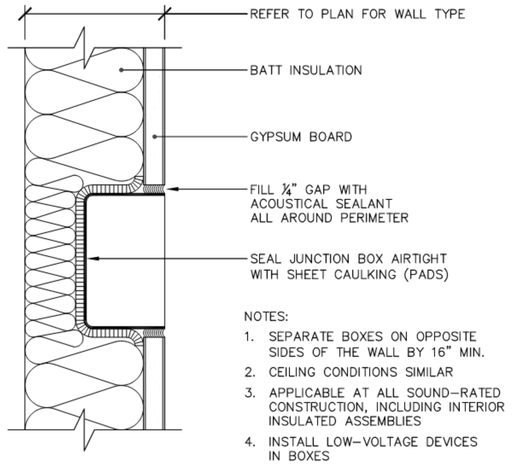


NOTE: FOR PENETRATIONS GREATER THAN 25 SQUARE INCHES, LINE TOP, BOTTOM, BACK AND SIDES WITH ONE LAYER 5/8" GYPSUM BOARD OR 2 psf. SHEET VINYL.

1 RECESSED PANEL ACCOUSTICAL DETAIL
NTS

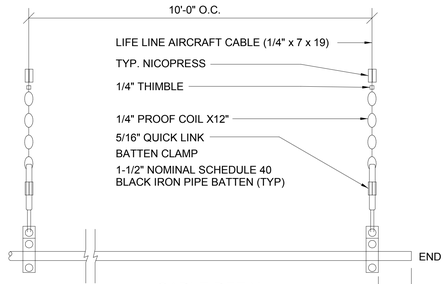


4 CONDUIT EXPANSION FITTING FOR SHEAR WALL AND EXPANSION JOINTS
NTS

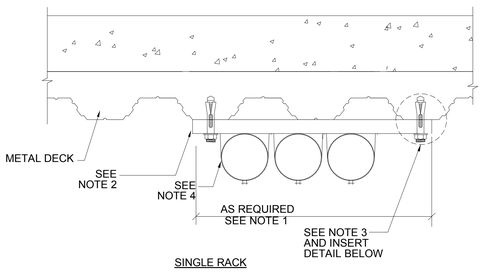


NOTES:
1. SEPARATE BOXES ON OPPOSITE SIDES OF THE WALL BY 16" MIN.
2. CEILING CONDITIONS SIMILAR
3. APPLICABLE AT ALL SOUND-RATED CONSTRUCTION, INCLUDING INTERIOR INSULATED ASSEMBLIES
4. INSTALL LOW-VOLTAGE DEVICES IN BOXES
5. WHERE NEEDED, FIRE-RATED PUTTY PADS MAY BE USED

2 JUNCTION BOX ACCOUSTICAL DETAIL
NTS



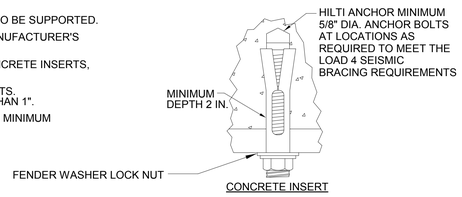
CABLE DETAIL



SINGLE RACK

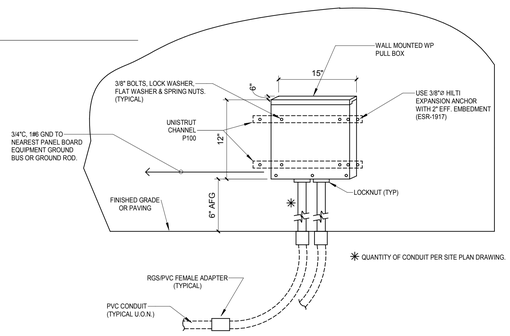
GENERAL NOTES

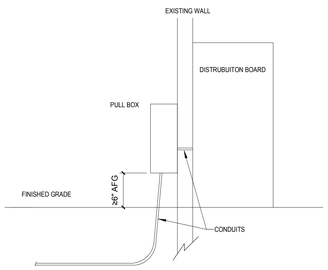
1. LENGTH VARIES WITH NUMBER OF CONDUITS TO BE SUPPORTED.
2. UNISTRUT WITH ALLOWABLE LOADING PER MANUFACTURER'S RECOMMENDATIONS.
3. FOR SUPPORT IN CONCRETE, USE SWIVEL CONCRETE INSERTS, AS SHOWN.
4. TYPICAL FOR 3", OR 2" RIGID METALLIC CONDUITS. DO NOT USE EMT CONDUIT FOR SIZES LARGER THAN 1".
5. (2) #12 SMS SCREWS PER BOTTOM FLUTE WITH MINIMUM (2) BOTTOM FLUTES.



CONCRETE INSERT

5 CONDUIT CEILING SUPPORT-SINGLE RACK
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3 WALL MOUNTED PULLBOX DETAIL
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ARCHITECT SEAL

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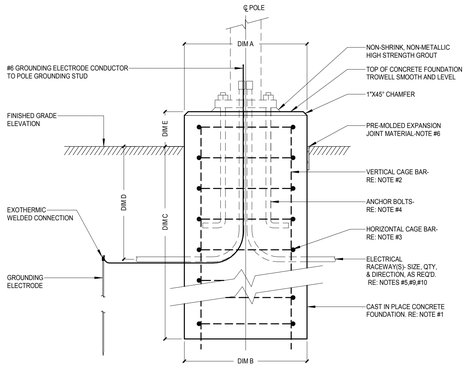
ELECTRICAL DETAILS

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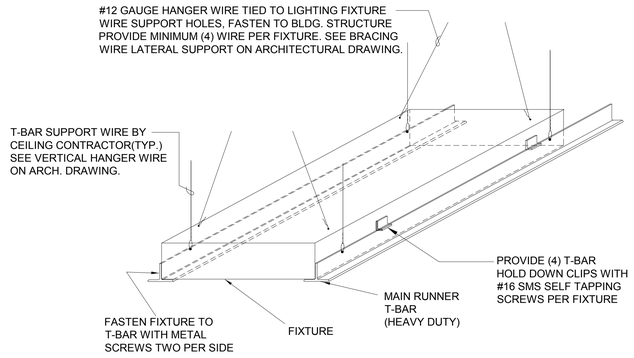
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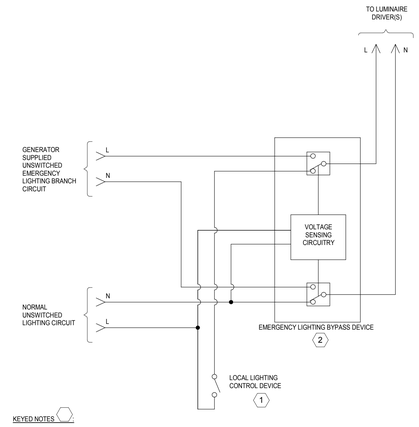
POLE FOUNDATION SCHEDULE								
DIM.	SITE LIGHTING TAGS							
	LX3	LX5	LX7	EP2				
A	18" DIA.	10" DIA.	24" DIA.	MATCH EXISTING				
B	18" DIA.	10" DIA.	24" DIA.	MATCH EXISTING				
C	7'-0"	36" MIN.	5'-0"	MATCH EXISTING				
D	24" NOTE 7	24"	24"	MATCH EXISTING				
E	0" NOTE 8	0"	0"	MATCH EXISTING				

NOTES:
1. RE: SCHEDULE ABOVE, FOR FOUNDATION DIMENSIONS. RE: PROJECT MANUAL FOR CAST-IN-PLACE CONCRETE SPECS.
2. #7 VERTICAL CAGE REBAR - QTY (10), 3" FROM FOUNDATION FACE, SPACED EQUALLY ABOUT PERIMETER.
3. #4 HORIZONTAL CAGE REBAR BANDS AT 12" INTERVALS TOP TO BOTTOM.
4. BOLTS PER MFGR'S SPECS. SPACING/LAYOUT TEMPLATE BY MFGR.
5. PROVIDE RACEWAYS FOR LIGHTING, POWER & LOW VOLTAGE SYSTEMS WIRING.
6. PROVIDE WHERE FOUNDATION ABUTS ADJACENT PAVING MATERIALS, OR OTHER CONCRETE.
7. IF LOCATED IN RAISED PLANTER; 24" PLUS PLANTER DEPTH.
8. IF LOCATED IN RAISED PLANTER; EQUAL TO PLANTER DEPTH.
9. EXTEND CONDUITS 12" ABOVE TOP OF FORM. TERMINATE CONDUITS WITH INSULATED THROAT BUSHINGS.
10. VERIFY OPENING SIZE IN POLE BASE PLATE PRIOR TO SETTING CONDUIT SLEEVES.

6 ROUND/SQUARE POLE FOUNDATION
NTS

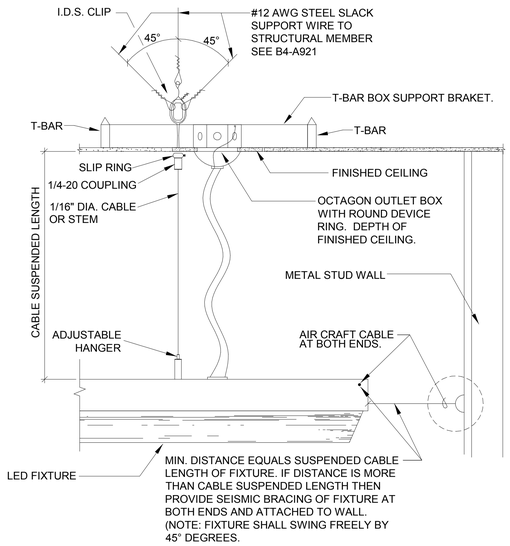


4 RECESSED LED FIXTURE SEISMIC MOUNTING DETAIL
NTS

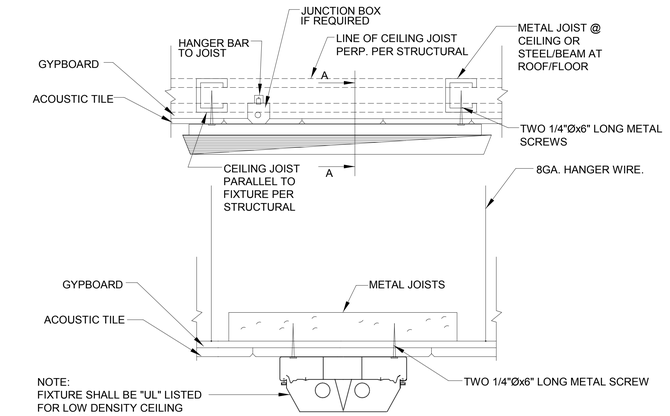


1. SPECIFIC LOCAL LIGHTING CONTROL DEVICE MAY BE SINGLE POLE, 3-WAY, OR 4-WAY SWITCH(ES), AUTOMATIC SENSING DEVICE(S), OR DIMMER(S).
2. EMERGENCY LIGHTING BYPASS DEVICE. CONTRACTOR SHALL PROVIDE CEC COMPLIANT NEMA RATED ENCLOSURE, SIZED PER MANUFACTURER'S DIRECTION, FOR INSTALLATION OF ELBO REMOTE FROM LUMINAIRE.

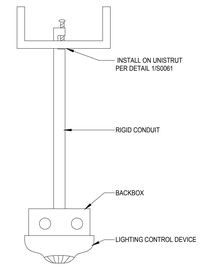
1 EMERGENCY LIGHTING BYPASS DEVICE / CONTROL MODULE (ELCM) SCHEMATIC
NTS



5 SUSPENDED LIGHTING FIXTURE BRACING DETAIL
NTS



2 LED FIXTURE SURFACE MOUNTING DETAIL
NTS



3 PENDANT LIGHTING CONTROL DEVICE MOUNTING
NTS

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REGISTERED PROFESSIONAL ENGINEER ROBERT J. BARRA JR. E19272 ELECTRICAL STATE OF CALIFORNIA

Drawing Title:

ELECTRICAL DETAILS

Issue Date: 06/15/2021
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Panel: 1LCH1

Location: Space 109
Supply From: 1ATSC1
Mounting: Surface
Enclosure: Type 1
Panel Options:

Volts: 480/277 Wye
Wiring: 3-Phase 4-Wire

A.I.C. Rating (A): 22,000
Available Fault Current (A): 13,955
Mains Rating (A): 100
Mains Type: MCB

Remarks	CKT	Description	Poles	Size (A)	A (VA)		B (VA)		C (VA)		Size (A)	Poles	Description	CKT	Remarks
	C1	Lighting	1	20	1,178	745					20	1	Lighting	C2	
	C3	Lighting	1	20			745	1,372			20	1	Lighting	C4	
	C5	Spare	1	20					0	0	20	1	Spare	C6	
	C7	Spare	1	20	0	0					20	1	Spare	C8	
	C9	Spare	1	20			0	0			20	1	Spare	C10	
	C11	Spare	1	20					0	0	20	1	Spare	C12	
	C13	Space	--	--	0	0					--	--	Space	C14	
	C15	Space	--	--			0	0			--	--	Space	C16	
	C17	Space	--	--					0	0	--	--	Space	C18	
	C19	Space	--	--	0	0					--	--	Space	C20	
	C21	Space	--	--			0	0			--	--	Space	C22	
	C23	Space	--	--					0	0	--	--	Space	C24	
	C25	Space	--	--	0	0					--	--	Space	C26	
	C27	Space	--	--			0	0			--	--	Space	C28	
	C29	Space	--	--					0	0	--	--	Space	C30	
	C31	Space	--	--	0	0					--	--	Space	C32	
	C33	Space	--	--			0	0			--	--	Space	C34	
	C35	Space	--	--					0	0	--	--	Space	C36	
	C37	SPD	3	30	0	8,115					90	3	1TC1	C38	
	C39	--	--	--			0	10,625			--	--	--	C40	
	C41	--	--	--					0	8,345	--	--	--	C42	
			Total Load (VA):		10,038		12,742		8,345						
			Total (A):		37		47		30						

Load Classification	Connected Load	Applied Demand Factor*	Demand Load	Panel Totals	
Kitchen Equipment	2575 VA	80.00%	2060 VA		
Lighting	4040 VA	125.00%	5050 VA	**Total Connected Load (VA):**	31,125
Receptacles	5600 VA	100.00%	5600 VA	**Total Demand Load (VA):**	27,165
Receptacle	18910 VA	76.44%	14455 VA	**Total Connected (A):**	37
				Total Demand (A):	33

*Demand factor applied as outlined in Articles 220, 430, and 440 of the National Electrical Code

Remarks:

Panel: 1LNH1

Location: Space 107
Supply From: 1DPNH1
Mounting: Surface
Enclosure: Type 1
Panel Options:

Volts: 480/277 Wye
Wiring: 3-Phase 4-Wire

A.I.C. Rating (A): 22,000
Available Fault Current (A): 17,432
Mains Rating (A): 100
Mains Type: MLO

Remarks	CKT	Description	Poles	Size (A)	A (VA)		B (VA)		C (VA)		Size (A)	Poles	Description	CKT	Remarks
	1	Lighting	1	20	668	1,333					20	1	Lighting	2	
	3	Lighting	1	20			480	917			20	1	Lighting	4	
	5	Lighting	1	20					72	0	20	1	Spare	6	
	7	Spare	1	20	0	0					20	1	Spare	8	
	9	Spare	1	20			0	0			20	1	Spare	10	
	11	Spare	1	20					0	0	20	1	Spare	12	
	13	Spare	1	20	0	0					--	--	Space	14	
	15	Space	--	--			0	0			--	--	Space	16	
	17	Space	--	--					0	0	--	--	Space	18	
	19	Space	--	--	0	0					--	--	Space	20	
	21	Space	--	--			0	0			--	--	Space	22	
	23	Space	--	--					0	0	--	--	Space	24	
	25	Space	--	--	0	0					--	--	Space	26	
	27	Space	--	--			0	0			--	--	Space	28	
	29	Space	--	--					0	0	--	--	Space	30	
	31	Space	--	--	0	0					--	--	Space	32	
	33	Space	--	--			0	0			--	--	Space	34	
	35	Space	--	--					0	0	--	--	Space	36	
	37	Space	--	--	0	0					--	--	Space	38	
	39	Space	--	--			0	0			--	--	Space	40	
	41	Space	--	--					0	0	--	--	Space	42	
			Total Load (VA):		2,001		1,397		72						
			Total (A):		8		6		0						

Load Classification	Connected Load	Applied Demand Factor*	Demand Load	Panel Totals	
Lighting	3377 VA	125.00%	4221 VA		
Other	93 VA	100.00%	93 VA	**Total Connected Load (VA):**	3,470
				Total Demand Load (VA):	4,314
				Total Connected (A):	4
				Total Demand (A):	5

*Demand factor applied as outlined in Articles 220, 430, and 440 of the National Electrical Code

Remarks:

Panel: 1LSH1

Location: Space 109
Supply From: 1ATSS1
Mounting: Surface
Enclosure: Type 1
Panel Options:

Volts: 480/277 Wye
Wiring: 3-Phase 4-Wire

A.I.C. Rating (A): 22,000
Available Fault Current (A): 13,776
Mains Rating (A): 100
Mains Type: MCB

Remarks	CKT	Description	Poles	Size (A)	A (VA)		B (VA)		C (VA)		Size (A)	Poles	Description	CKT	Remarks
	L1	Lighting	1	20	820	70					20	1	Lighting	L2	
	L3	Lighting	1	20			558	0			20	1	Spare	L4	
	L5	Spare	1	20					0	0	20	1	Spare	L6	
	L7	Spare	1	20	0	0					20	1	Spare	L8	
	L9	Spare	1	20			0	0			20	1	Spare	L10	
	L11	Spare	1	20					0	0	--	--	Space	L12	
	L13	Space	--	--	0	0					--	--	Space	L14	
	L15	Space	--	--			0	0			--	--	Space	L16	
	L17	Space	--	--					0	0	--	--	Space	L18	
	L19	Space	--	--	0	0					--	--	Space	L20	
	L21	Space	--	--			0	0			--	--	Space	L22	
	L23	Space	--	--					0	0	--	--	Space	L24	
	L25	Space	--	--	0	0					--	--	Space	L26	
	L27	Space	--	--			0	0			--	--	Space	L28	
	L29	Space	--	--					0	0	--	--	Space	L30	
	L31	Space	--	--	0	0					--	--	Space	L32	
	L33	Space	--	--			0	0			--	--	Space	L34	
	L35	Space	--	--					0	0	--	--	Space	L36	
	L37	SPD	3	30	0	2,380					50	3	1TS1	L38	
	L39	--	--	--			0	840			--	--	--	L40	
	L41	--	--	--					0	2,280	--	--	--	L42	
			Total Load (VA):		3,270		1,398		2,280						
			Total (A):		12		5		9						

Load Classification	Connected Load	Applied Demand Factor*	Demand Load	Panel Totals	
Lighting	1448 VA	125.00%	1810 VA		
Receptacle	5500 VA	100.00%	5500 VA	**Total Connected Load (VA):**	6,948
				Total Demand Load (VA):	7,310
				Total Connected (A):	8
				Total Demand (A):	9

*Demand factor applied as outlined in Articles 220, 430, and 440 of the National Electrical Code

Remarks:

Panel: 1PEH1

Location: Space 109
Supply From: 1ATSE1
Mounting: Surface
Enclosure: Type 1
Panel Options:

Volts: 480/277 Wye
Wiring: 3-Phase 4-Wire

A.I.C. Rating (A): 22,000
Available Fault Current (A): 15,081
Mains Rating (A): 225
Mains Type: MCB

Remarks	CKT	Description	Poles	Size (A)	A (VA)		B (VA)		C (VA)		Size (A)	Poles	Description	CKT	Remarks
	E1	HWP-1, HWP-2	3	20	1,867	1,667					20	3	BP-2, BP-2	E2	
	E3	--	--	--			1,867	1,667			--	--	--	E4	
	E5	--	--	--					1,867	1,667	--	--	--	E6	
	E7	RTU-1	3	40	10,420	1,333					20	3	RF-1	E8	
	E9	--	--	--			10,420	1,333			--	--	--	E10	
	E11	--	--	--					10,420	1,333	--	--	--	E12	
	E13	RTU-2	3	50	13,333	1,333					20	3	RF-2	E14	
	E15	--	--	--			13,333	1,333			--	--	--	E16	
	E17	--	--	--					13,333	1,333	--	--	--	E18	
	E19	FBF-1, EF-9	3	20	777	0					20	3	Spare	E20	
	E21	--	--	--			777	0			--	--	--	E22	
	E23	--	--	--					777	0	--	--	--	E24	
	E25	Spare	3	20	0	0					--	--	Space	E26	
	E27	--	--	--			0	0			--	--	Space	E28	
	E29	--	--	--					0	0	--	--	Space	E30	
	E31	Space	--	--	0	0					--	--	Space	E32	
	E33	Space	--	--			0	0			--	--	Space	E34	
	E35	Space	--	--					0	0	--	--	Space	E36	
	E37	SPD	3	30	0	6,715					125	3	1TE1	E38	
	E39	--	--	--			0	6,790			--	--	--	E40	
	E41	--	--	--					0	6,595	--	--	--	E42	
			Total Load (VA):		37,445		37,520		37,325						
			Total (A):		135		136		135						

Load Classification	Connected Load	Applied Demand Factor*	Demand Load	Panel Totals	
Motor	111790 VA	100.00%	111790 VA		
Receptacle	500 VA	100.00%	500 VA	**Total Connected Load (VA):**	112,290
				Total Demand Load (VA):	112,290
				Total Connected (A):	135
				Total Demand (A):	135

*Demand factor applied as outlined in Articles 220, 430, and 440 of the National Electrical Code

Remarks:

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Rev.	Description	Date
	ISSUE FOR PLAN REVIEW BACKCHECK	21 JAN 2022
	ISSUE FOR OSHPD SUBMITTAL	19 NOV 2020
	AGENCY APPROVAL	

FACILITY #: 12372
OSHPD #:

ARCHITECT SEAL

CONSULTANT SEAL

REGISTERED PROFESSIONAL ENGINEER ROBERT J. GARRA E19272 ELECTRICAL STATE OF CALIFORNIA

	1LCH1	1LNH1
		1LSH1
		1PEH1

Drawing Title:

PANEL SCHEDULES

Issue Date: 11/19/2020
Project No.: 006240.00 Checked by: WC

E0801

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Panel: 1PSL1

Location: Space 109
Supply From: 1TS1
Mounting: Surface
Enclosure: Type 1
Panel Options:

Volts: 120/208 Wye
Wiring: 3-Phase 4-Wire

A.I.C. Rating (A): 10,000
Available Fault Current (A): 1,730
Mains Rating (A): 100
Mains Type: MCB

Remarks	CKT	Description	Poles	Size (A)	A (VA)		B (VA)		C (VA)		Size (A)	Poles	Description	CKT	Remarks
	L1	Receptacle	1	20	500	200					20	1	Receptacle	L2	
	L3	Receptacle	1	20			840							L4	
	L5	Receptacle	1	20					1,560	720	20	1	Receptacle	L6	
	L7	Receptacle	1	20	1,080	600					20	1	Receptacle	L8	
	L9	Spare	1	20			0	0			20	1	Spare	L10	
	L11	Spare	1	20					0	0	20	1	Spare	L12	
	L13	Spare	1	20	0	0					20	1	Spare	L14	
	L15	Spare	1	20			0	0			20	1	Spare	L16	
	L17	Spare	1	20					0	0	20	1	Spare	L18	
	L19	Spare	1	20	0	0					20	1	Spare	L20	
	L21	Spare	1	20			0	0			20	1	Spare	L22	
	L23	Spare	1	20					0	0	20	1	Spare	L24	
	L25	Spare	1	20	0	0					20	1	Spare	L26	
	L27	Spare	1	20			0	0			20	1	Spare	L28	
	L29	Spare	1	20					0	0	20	1	Spare	L30	
	L31	Spare	1	20	0	0					20	1	Spare	L32	
	L33	Spare	1	20			0	0			20	1	Spare	L34	
	L35	Spare	1	20					0	0	20	1	Spare	L36	
	L37	Spare	1	20	0	0					20	1	Spare	L38	
	L39	Spare	1	20			0	0			20	1	Spare	L40	
	L41	Spare	1	20					0	0	20	1	Spare	L42	
		Total Load (VA):			2,380		840		2,280						
		Total (A):			22		7		21						

Load Classification	Connected Load	Applied Demand Factor*	Demand Load	Panel Totals	
Receptacle	5500 VA	100.00%	5500 VA		
				Total Connected Load (VA):	5,500
				Total Demand Load (VA):	5,500
				Total Connected (A):	15
				Total Demand (A):	15

*Demand factor applied as outlined in Articles 220, 430, and 440 of the National Electrical Code

Remarks:

Panel: 1PEL1

Location: Space 109
Supply From: 1TE1
Mounting: Surface
Enclosure: Type 1
Panel Options:

Volts: 120/208 Wye
Wiring: 3-Phase 4-Wire

A.I.C. Rating (A): 10,000
Available Fault Current (A): 5,149
Mains Rating (A): 250
Mains Type: MCB

Remarks	CKT	Description	Poles	Size (A)	A (VA)		B (VA)		C (VA)		Size (A)	Poles	Description	CKT	Remarks
	E1	AC-1	2	30	1,150	300					20	1	B-1	E2	
	E3	--	--	--			1,150	300			20	1	B-2	E4	
	E5	AC-2	2	30					1,150	55	20	1	CP-1	E6	
	E7	--	--	--	1,150	1,175					20	1	GWH-1	E8	
	E9	AC-3	2	30			1,150	1,250			20	2	SEP-1	E10	
	E11	--	--	--					1,150	1,250	--	--	--	E12	
	E13	EF-1	1	20	830	450					20	2	CU-1, CU-2, CU-3	E14	
	E15	EF-2	1	20			830	450			--	--	--	E16	
	E17	EF-3	1	20					830	500	20	1	Receptacle	E18	
	E19	EF-4	1	20	830	0					20	1	Spare	E20	
	E21	EF-5	1	20			830	0			20	1	Spare	E22	
	E23	EF-6	1	20					830	0	20	1	Spare	E24	
	E25	EF-7	1	20	830	0					20	1	Spare	E26	
	E27	EF-8	1	20			830	0			20	1	Spare	E28	
	E29	EF-10	1	20					830	0	20	1	Spare	E30	
	E31	Spare	1	20	0	0					20	1	Spare	E32	
	E33	Spare	1	20			0	0			20	1	Spare	E34	
	E35	Spare	1	20					0	0	20	1	Spare	E36	
	E37	Spare	1	20	0	0					20	1	Spare	E38	
	E39	Spare	1	20			0	0			20	1	Spare	E40	
	E41	Spare	1	20					0	0	20	1	Spare	E42	
		Total Load (VA):			6,715		6,790		6,595						
		Total (A):			56		57		55						

Load Classification	Connected Load	Applied Demand Factor*	Demand Load	Panel Totals	
Motor	19600 VA	100.00%	19600 VA		
Receptacle	500 VA	100.00%	500 VA		
				Total Connected Load (VA):	20,100
				Total Demand Load (VA):	20,100
				Total Connected (A):	56
				Total Demand (A):	56

*Demand factor applied as outlined in Articles 220, 430, and 440 of the National Electrical Code

Remarks:

Panel: 1PNL1

Location: Space 107
Supply From: 1TN1
Mounting: Surface
Enclosure: Type 1
Panel Options: PROVIDE FEED THRU LUGS

Volts: 120/208 Wye
Wiring: 3-Phase 4-Wire

A.I.C. Rating (A): 10,000
Available Fault Current (A): 3,228
Mains Rating (A): 150
Mains Type: MCB

Remarks	CKT	Description	Poles	Size (A)	A		B		C		Size (A)	Poles	Description	CKT	Remarks
	1	Receptacle	1	20	600	400					20	1	Receptacle	2	
	3	Receptacle	1	20			600	400			20	1	Receptacle	4	
	5	Receptacle	1	20					400	400	20	1	Receptacle	6	
	7	Receptacle	1	20	1,080	920					20	1	Receptacle	8	
	9	Receptacle	1	20			600	600			20	1	Receptacle	10	
	11	Receptacle	1	20					740	18	20	1	Lighting	12	
	13	Receptacle	1	20	720	1,000					20	1	Kitchen Equipment	14	
	15	Receptacle	1	20			200	760			20	1	Receptacle	16	
	17	Receptacles	1	20					1,400	1,220	20	1	Receptacle	18	
	19	Receptacles	1	20	540	1,140					20	1	Receptacle	20	
	21	Receptacle	1	20			200	1,120			20	1	Receptacles	22	
	23	Receptacle	1	20					1,080	1,400	20	1	EF-9	24	
	25	Receptacle	1	20	360	1,080					20	1	Receptacles	26	
	27	Receptacles	1	20			900	740			20	1	Receptacles	28	
	29	Receptacle	1	20					760	540	20	1	Receptacle	30	
	31	Receptacle	1	20	720	720					20	1	Receptacles	32	
	33	Receptacle	1	20			800	600			20	1	Receptacle	34	
	35	Receptacle	1	20					600	400	20	1	Receptacle	36	
	37	Receptacle	1	20	600	6,300					40	2	Receptacle	38	
	39	Receptacle	2	40			6,300	0			--	--	--	40	
	41	--	--	--					0	6,300	40	2	Receptacle	42	
	43	Receptacle	2	40	6,300	0					--	--	--	44	
	45	--	--	--			0	6,300			40	2	Receptacle	46	
	47	Receptacle	2	40					6,300	0	--	--	--	48	
	49	--	--	--	0	0					20	1	Spare	50	
	51	Spare	1	20			0	0			20	1	Spare	52	
	53	Spare	1	20					0	0	20	1	Spare	54	
	55	Spare	1	20	0	0					20	1	Spare	56	
	57	Spare	1	20			0	0			20	1	Spare	58	
	59	Spare	1	20					0	0	20	1	Spare	60	
	61	Spare	1	20	0	0					20	1	Spare	62	
	63	Spare	1	20			0	0			20	1	Spare	64	
	65	Spare	1	20					0	0	20	1	Spare	66	
	67	Spare	1	20	0	0					20	1	Spare	68	
	69	Spare	1	20			0	0			20	1	Spare	70	
	71	Spare	1	20					0	0	20	1	Spare	72	
	73	Spare	1	20	0	0					20	1	Spare	74	
	75	Spare	1	20			0	0			20	1	Spare	76	
	77	Spare	1	20					0	0	20	1	Spare	78	
	79	Spare	1	20	0	0					20	1	Spare	80	
	81	Spare	1	20			0	0			20	1	Spare	82	
	83	Spare	1	20					0	0	20	1	Spare	84	
		Total Load (VA):			22,480		20,120		21,558						
		Total (A):			189		168		181						

Load Classification	Connected Load	Applied Demand Factor*	Demand Load	Panel Totals	
Kitchen Equipment	1000 VA	100.00%	1000 VA		
Lighting	18 VA	125.00%	23 VA	**Total Connected Load (VA):**	64,158
Receptacles	5580 VA	100.00%	5580 VA	**Total Demand Load (VA):**	40,383
Receptacle	57560 VA	58.69%	33780 VA	**Total Connected (A):**	178
				Total Demand (A):	112

*Demand factor applied as outlined in Articles 220, 430, and 440 of the National Electrical Code

Remarks:

PROVIDE GFCI BREAKER FOR ALL CIRCUITS SERVING PATIENT AREAS.

Panel: 1PCL1

Location: Space 109
Supply From: 1TC1
Mounting: Surface
Enclosure: Type 1
Panel Options: PROVIDE FEED THRU LUGS

Volts: 120/208 Wye
Wiring: 3-Phase 4-Wire

A.I.C. Rating (A): 10,000
Available Fault Current (A): 3,080
Mains Rating (A): 150
Mains Type: MCB

Remarks	CKT	Description	Poles	Size (A)	A		B		C		Size (A)	Poles	Description	CKT	Remarks
	C1	Receptacle	1	20	200	200					20	1	Receptacle	C2	
	C3	Receptacle	1	20			200	200			20	1	Receptacle	C4	
	C5	Receptacle	1	20					200	200	20	1	Receptacle	C6	
	C7	Receptacle	1	20	900	180					20	1	WASHER	C8	
	C9	Receptacle	1	20			920	1,000			20	2	Receptacle	C10	
	C11	Kitchen Equipment	1	20					1,000	0	--	--	--	C12	
	C13	Receptacle	1	20	1,200	540					20	1	Receptacles	C14	
	C15	Receptacle	1	20			1,080	1,000			20	1	Receptacle	C16	
	C17	Receptacle	1	20					1,200	525	20	1	Kitchen Equipment	C18	
	C19	Receptacles	1	20	720	525					20	1	Kitchen Equipment	C20	
	C21	Receptacles	1	20			900	1,000			20	1	Receptacle	C22	
	C23	Receptacles	1	20					1,000	1,080	20	1	Receptacles	C24	
	C25	Receptacles	1	20	900	950					20	1	Receptacle	C26	
	C27	Receptacle	2	20			1,000	525			20	1	Kitchen Equipment	C28	
	C29	--	--	--					0	1,000	20	2	Receptacle	C30	
	C31	Receptacle	1	20	200	0					--	--	--	C32	
	C33	Receptacle	1	20			200	200			20	1	Receptacle	C34	
	C35	Receptacles	1	20					900	200	20	1	Receptacle	C36	
	C37	Receptacle	1	20	500	200					20	1	Receptacle	C38	
	C39	Receptacle	1	20			500	900			20	1	Receptacle	C40	
	C41	Receptacle	1	20					500	540	20	1	Receptacles	C42	
	C43	Receptacle	1	20	500	400					20	1	Receptacle	C44	
	C45	Receptacles	1	20			1,000	0			20	1	Spare	C46	
	C47	Spare	1	20					0	0	20	1	Spare	C48	
	C49	Spare	1	20	0	0					20	1	Spare	C50	
	C51	Spare	1	20			0	0			20	1	Spare	C52	
	C53	Spare	1	20					0	0	20	1	Spare	C54	
	C55	Spare	1	20	0	0					20	1	Spare	C56	
	C57	Spare	1	20			0	0			20	1	Spare	C58	
	C59	Spare	1	20					0	0	20	1	Spare	C60	
	C61	Spare	1	20	0	0					20	1	Spare	C62	
	C63	Spare	1	20			0	0			20	1	Spare	C64	
	C65	Spare	1	20					0	0	20	1	Spare	C66	
	C67	Spare	1	20	0	0					20	1	Spare	C68	
	C69	Spare	1	20			0	0			20	1	Spare	C70	
	C71	Spare	1	20					0	0	20	1	Spare	C72	
	C73	Spare	1	20	0	0					20	1	Spare	C74	
	C75	Spare	1	20			0	0			20	1	Spare	C76	
	C77	Spare	1	20					0	0	20	1	Spare	C78	
	C79	Spare	1	20	0	0					20	1	Spare	C80	
	C81	Spare	1	20			0	0			20	1	Spare	C82	
	C83	Spare	1	20					0	0	20	1	Spare	C84	
		Total Load (VA):			8,115		10,625		8,345						
		Total (A):			68		89		70						

Load Classification	Connected Load	Applied Demand Factor*	Demand Load	Panel Totals	
Kitchen Equipment	2575 VA	80.00%	2060 VA		
Receptacles	5600 VA	100.00%	5600 VA	**Total Connected Load (VA):**	27,085
Receptacle	18910 VA	76.44%	14455 VA	**Total Demand Load (VA):**	22,115
				Total Connected (A):	75
				Total Demand (A):	61

*Demand factor applied as outlined in Articles 220, 430, and 440 of the National Electrical Code

Remarks:

PROVIDE GFCI BREAKER FOR ALL CIRCUITS SERVING PATIENT AREAS.

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FACILITY #: 12372
OSHPD #:

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	1PSL1	1PNL1
	1PEL1	
		1PCL1

Drawing Title:

PANEL SCHEDULES

Issue Date: 11/19/2020
Project No.: 006240.00 Checked by: WC

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'F' SERIES GENERAL NOTES

A. FOR EXACT LOCATION AND FINISH SURFACE CONDITIONS OF CEILING, WALL, FLOOR MOUNTED DEVICES, REFER TO ARCHITECTURAL DRAWINGS.

B. FOR EXACT LOCATION OF FACILITY EXPANSION JOINTS, FIRE RATED WALLS AND SMOKE WALLS, REFER TO ARCHITECTURAL DRAWINGS.

C. FOR EXACT LOCATIONS OF DUCT MOUNTED SMOKE DETECTORS, WATER FLOW SWITCHES AND TAMPER SWITCHES REFER TO HVAC / FP DRAWINGS.

D. VERIFY EXACT LOCATION OF CONNECTION POINTS PRIOR TO CONNECTION.

E. MOUNTING HEIGHTS ARE TO CENTER OF DEVICE OR EQUIPMENT, UNO.

F. PROVIDE RACEWAY, WIRE AND CABLE, ASSOCIATED FITTINGS AND CONNECTORS, AND COMPLETE CONNECTIONS REQUIRED FOR DESIGNATED BRANCH CIRCUITS FROM DEVICE(S) TO FINAL OVERCURRENT DEVICE AND TO LOCAL CONTROL DEVICE(S) PER SPECIFICATIONS.

G. MINIMUM BRANCH CIRCUIT WIRE SIZE SHALL BE #12 AWG EXCEPT LIFE SAFETY BRANCH CIRCUIT WIRING WHICH SHALL BE MINIMUM #10 AWG. MAINTAIN MAXIMUM BRANCH CIRCUIT CONDUCTOR LENGTHS AS PER SPECIFICATIONS AND SCHEDULED ON THIS DRAWING. INCLUDE GROUND CONDUCTOR DERATINGS.

H. PROVIDE GROUNDING PER CEC. ALSO PROVIDE GREEN GROUND WIRE IN ALL BRANCH AND FEEDER CIRCUITS SIZED PER CEC.

I. THE SPACE ABOVE THE CEILING IS LIMITED AND THE INSTALLATION OF WORK WILL BE TIGHT. DUE TO THIS, IT IS IMPORTANT THAT THE TRADE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THEIR WORK (IE: DUCTWORK, TERMINAL UNITS, PIPING, ETC) WITH THE EXISTING CEILING SYSTEM HEIGHT AND CONSTRUCTION, THE STRUCTURAL SYSTEM, THE LIGHTING FIXTURES, THE SPRINKLER HEADS/MAINS, AND THE PLUMBING PIPES. ROUTE DUCTWORK AND PIPING AS HIGH AS POSSIBLE. LOCATE TERMINAL UNITS BETWEEN STRUCTURAL BEAMS AND MAINTAIN PROPER SERVICE ACCESS CLEARANCES.

J. DO NOT INSTALL ANY NEW WORK DIRECTLY ABOVE ANY ELECTRICAL PANELS AND TRANSFORMERS.

K. CIRCUIT NUMBERS SHOWN FOR EQUIPMENT WIRED TO EXISTING PANELBOARD(S) IS SHOWN FOR DESIGN INTENT ONLY AND MAY NOT CORRESPOND TO ACTUAL CIRCUIT BREAKER MOUNTING POSITION IN THE PANEL. UPDATE THE AS-BUILT DRAWINGS WITH THE ACTUAL CIRCUIT NUMBERS USED TO CORRESPOND TO THE PANEL DIRECTORY.

L. CONFIRM ALL LABELS AND ROOM NUMBERS WITH OWNER PRIOR TO FINALIZING LABELING AND PROGRAMMING.

ABBREVIATIONS

A	AMPERE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
ANN	ANNUNCIATOR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AV	AUDIO VISUAL
BAS	BUILDING AUTOMATION SYSTEM
C	CONDUIT
CAT	CATALOG
CEC	CALIFORNIA ELECTRICAL CODE
CKT	CIRCUIT
CLG	CEILING
CU	COPPER
DN	DOWN
DWG	DRAWING
EA	EACH
ELEC	ELECTRIC
ELEV	ELEVATOR
EOL	END OF LINE DEVICE
EQUIP	EQUIPMENT
FA	FIRE ALARM
FACU	FIRE ALARM CONTROL UNIT
FLR	FLOOR
GND	GROUND
JB	JUNCTION BOX
LS	LIFE SAFETY
LV	LOW VOLTAGE
MAX	MAXIMUM
MH	MANHOLE
MIC	MICROPHONE
MIN	MINIMUM
MTD	MOUNTED
NA	NOT APPLICABLE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PC	PERSONAL COMPUTER
PWR	POWER
RCP	REFLECTED CEILING PLANS
RE	REFER TO
RM	ROOM
SCHED	SCHEDULE
SH	SHEET
SPC	SPACE
SPEC	SPECIFICATION
SPKR	SPEAKER
SPR	SPARE
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
V	VOLT
W	WATT
WP	WEATHERPROOF

DEVICE SUBSCRIPTS

M	MULLION MOUNTED
WG	WIRE GUARD
WP	WEATHERPROOF

GENERAL

- NEW EQUIPMENT
- EXISTING WORK
- DEVICE TO BE REMOVED (DEMO PLANS) UNDERFLOOR CONDUIT (NEW PLANS)
- FUTURE WORK
- WIRE AND/OR CONDUIT RUN CONTINUED ON REFERENCED DETAIL
- MATCH LINE REFERENCING CONTINUATION ON OTHER DRAWINGS
- DETAIL AND/OR SECTION REFERENCE
- BRANCH CIRCUIT BOUNDARY

DRAWING NOTES AND DESIGNATIONS

- (X) DRAWING KEYED NOTES
- (X) CABLE ROUTING NOTES
- 300/4 FEEDER DESIGNATION
- SYMBOL WITH DASHED OUTLINE INDICATES INSTALLATION AT CEILING
- SYMBOL WITH TAIL INDICATES WALL INSTALLATION, HEIGHT AS INDICATED

OSHPD GENERAL NOTES

1. APPLICABLE STANDARD NFPA 72, AS ADOPTED AND AMENDED IN CBC CHAPTER 35.
2. INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHALL LISTED NUMBERS FOR EACH COMPONENT OF THE SYSTEM, HAS BEEN APPROVED BY OSHPD.
3. UPON COMPLETION OF SYSTEM INSTALLATION, A SATIFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A OSHPD PROJECT INSPECTOR.
4. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED OFR INSTALLATION.
5. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF OSHPD AND THE ARCHITECT/ENGINEER OF THE PROJECT.
6. OSHPD, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND/OR TESTING.
7. ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIREING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, UL OR OTHER APPROVED LAB TESTING CRITERIA. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE PROJECT SPECIFIATIONS WITHIN THE FIRE ALARM SECTION.
8. WALL MOUNTED VISUAL NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80-INCHES MINIMUM AND 96-INCHES MAXIMUM FROM FINISHED FLOOR.
9. WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90-INCHES MINIMUM AND 100-INCHES MAXIMUM FROM FINISHED FLOOR AND NO CLOSER THAN 6-INCHES TO A HORIZONTAL STRUCTURE.
10. AUDIBLE DEVICES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 DECIBELS (dBA) ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR FIVE dBA ABOVE THE MAXIMUM SOUND LEVEL HAVEING A DURATION OF AT LEAST 60 SECOND, WHICHEVER IS GREATER, IN EVERY OCCUPIABLE SPACE WITHIN THE BUILDING.
11. AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN.
12. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
13. VISIBLE DEVICES SHALL NOT EXCEED TWO FLASHED PER SECOND AND SHOULD NOT BE SLOWER THAN ONE FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELLA. VISIBLE DEVICES WITHIN 55-FEET FROM EACH OTHER SHALL BE SYNCHRONIZED.
14. UNDERGROUND AND EXTERIOR COUNDUITS TO HAVE WATERTIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET LOCATIONS.
15. ALL FIRE ALARM WIRING SHALL BE FPLOR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLIATION. WIRING IN CONDUIT ABOVE GROUND MAY BE TYPE THHN OR THWN.
16. PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THORUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE THE WIRE. ALL BOXES TO BE SIZED PER CEC.
17. SMOKE DETECTORS SHALL BNOT BE ANY CLOSER THAN 1-FOOT FROM FIRE SPRINKLERS OR 3-FEET FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM, DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.
18. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY OR OPEN RUN ABOVE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANOR AS INDICAED ON DESIGN DOCUMENTS.
19. FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICES SHALL EXCEED 20 LBS WITHOUT SPECIAL MOUNTING DETAILS.
20. A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER CIRCUITS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL." CIRCUIT IS TO BE LABELED AT FIRE PANEL/EXTENDERS.
21. THE INSTLLING CONTRACTOR SHALL PROVIDE A COMPLETED "SYSTEM RECORD OF COMPLETION" PER NFPA 72, FIGURE 17.8.2.
22. FIRE ALARM CONTROL PANELS AND REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48-INCHES ABOVE THE FINISHED FLOOR.
23. MICROPHONES ASSOCAITED WITH EMERGENCY VOICE ALARM COMMUNICATIONS SYSTEM (EVAC) SHALL BE ACCESSIBLE FOR USE, INSTALLED IN COMPLIANCE WITH CBC SECTIONS 11B-305 AND 11B-308.
24. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.2.
25. SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCION WITH FINAL ACCEPTANCE TEST.
26. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.

FIRE ALARM SYMBOLS LIST

SYMBOL	DESCRIPTION	MODEL	MANUFACTURER	MOUNTING HEIGHT	C.S.F.M. NUMBER
FAP	FIRE ALARM ANNUNCIATOR PANEL	FDU-80	NOTIFIER	VERIFY IN FIELD	7120-0028:0209
FACU	FIRE ALARM CONTROL PANEL	NFS-320	NOTIFIER	5'-6" A.F.F. TO TOP	7165-0028:0243
S	AREA SMOKE DETECTOR	FSP-951	NOTIFIER	CEILING	7272-0028:0503
H	AREA HEAT DETECTOR	FST-951	NOTIFIER	CEILING	7270-0028:0502
F	FIRE ALARM CONTROL RELAY / MONITOR MODULE	FRM-1	NOTIFIER	VERIFY IN FIELD	7300-0028:0219
F	FIRE ALARM PULL STATION	NBG-12LX	NOTIFIER	46" A.F.F. TO TOP	7150-0028:0199
XX	FIRE ALARM STROBE (WALL) XX REPRESENTS CANDELA	SRL	NOTIFIER	80" A.F.F. TO BOTTOM	7125-1653:0504
XX	FIRE ALARM HORN/STROBE (WALL) XX REPRESENTS CANDELA	P2RL	NOTIFIER	80" A.F.F. TO BOTTOM	7125-1653:0517
XX WP	FIRE ALARM HORN/STROBE OUTDOOR (WALL) XX REPRESENTS CANDELA	P2RK	NOTIFIER	80" A.F.F. TO BOTTOM	7125-1653:0188
D	AIR DUCT SMOKE DETECTOR	DNR	NOTIFIER	AIR DUCT TYPE SMOKE DETECTOR	3240-1653:0209
DT	REMOTE INDICATOR LIGHT WITH KEYED SWITCH FOR DUCT DETECTOR	RTS151KEY	NOTIFIER	WALL OR CEILING	7300-1653:0212
TS	TAMPER SWITCH	PIBV2/A	NOTIFIER	VERIFY IN FIELD	7770-1653:0118
FS	WATER FLOW SWITCH	WFDN	SYSTEM SENSOR	VERIFY IN FIELD	7770-1653:0231
FB	FIRE SPRINKLER BELL	SSM	NOTIFIER	90" A.F.F. TO TOP	7135-1653:0217
CM	CARBOM MONOXIDE DETECTOR	FSCO-951	NOTIFIER	CEILING	5278-0028:0511
	3/4" CONDUIT, U.N.O. XXX REPRESENTS TYPE OF WIRE IN CONDUIT		NOTIFIER	VERIFY IN FIELD	N/A

ABBREVIATIONS:

A.F.F.	ABOVE FINISHED FLOOR	N/A	NOT APPLICABLE
E.O.L.	END OF LINE	U.N.O.	UNLESS NOTED OTHERWISE
EX	EXISTING DEVICE	VL	VERIFY LOCATION IN FIELD
F.B.O.	FURNISHED BY OTHERS	WP	WEATHERPROOF DEVICE

FIRE ALARM WIRE LEGEND

DESIGNATION	WIRE/CABLE	CIRCUIT TYPE
F	2 #16 NON-SHIELDED TWISTED PAIR	INITIATION CIRCUIT (INDOOR)
A	2 #12 THHN/THWN	NOTIFICATION AUDIBLE (INDOOR & OUTDOOR/UNDERGROUND)
V	2 #12 THHN/THWN	NOTIFICATION VISUAL (INDOOR & OUTDOOR/UNDERGROUND)
P	2 #12 THHN/THWN	24V POWER (INDOOR & OUTDOOR/UNDERGROUND)
FW	2 #16 NON-SHIELDED TWISTED PAIR	INITIATION CIRCUIT (OUTDOOR/UNDERGROUND)

NOTES:
1. NUMBER ADJACENT TO DESCRIPTION INDICATES QUANTITY OF CIRCUIT. I.E. 2V INDICATES 4#12.
2. ALL FIRE ALARM CONDUCTORS SHALL BE ROUTED IN CONDUIT WITH NO SPLICES BELOW GRADE. ALL WIRING UNDERGROUND SHALL BE LISTED FOR WET AREA APPLICATION IN ACCORDANCE WITH CEC 760.

FIRE ALARM SEQUENCE OF OPERATIONS

CAUSE	ALARM: ALARM AT FACP	ALARM: ALARM AT ANNUNCIATOR	ALARM: ALARM SIGNAL TO CENTRAL MONITORING SYSTEM	ALARM: ACTIVATE SPEAKER AND STROBE ALARMS THROUGHOUT	ALARM: ACTIVATE FIREMAN'S HAT INSIDE ELEVATOR CAB	TROUBLE: TROUBLE AT FACP	TROUBLE: TROUBLE AT ANNUNCIATOR	TROUBLE: TROUBLE SIGNAL TO CENTRAL MONITORING STATION	SUPERVISORY: SUPERVISORY AT FACP	SUPERVISORY: SUPERVISORY AT ANNUNCIATOR	SUPERVISORY: SUPERVISORY SIGNAL TO CENTRAL MONITORING STATION	MISCELANEOUS: DISPLAY CHANGE OF STATUS	MISCELANEOUS: DEACTIVATE SPEAKER AND STROBE ALARMS	MISCELANEOUS: SHUT DOWN HVAC UNIT	MISCELANEOUS: SYSTEM NORMAL	REMARKS
MANUAL PULL STATION	X	X	X	X								X				
AREA SMOKE/CO DETECTOR	X	X	X	X								X		X		
HEAT DETECTOR	X	X	X	X								X				
DUCT MOUNTED SMOKE DETECTOR									X	X	X	X		X		
WATERFLOW SWITCH	X	X	X	X								X				
TAMPER SWITCH									X	X	X	X				
DOUBLE DETECTOR CHECK VALVE TAMPER SWITCH									X	X	X	X				
SYSTEM RESET												X	X		X	
SIGNAL SILENCE												X	X			
AC POWER FAILURE						X	X	X				X				
FIRE ALARM SYSTEM LOW BATTERY						X	X	X				X				

FIRE ALARM CONTROL BY EVENT SCHEDULE

EVENT (DEVICE ACTIVATED)	CONTROLLED RESPONSE: TRANSMIT ALARM TO PROTECTIVE SERVICES	TRANSMIT ALARM TO FACILITY CENTRAL CONTROL DEVICES	SOUND ALL AUDIBLE ALARMS PER SPEC	ACTIVATE ALL VISUAL ALARMS	INDICATE TIME & EVENT ON SYSTEM PRINTER	RELEASE HOLD OPEN FIRE AND SMOKE DOORS	RELEASE LOCK ON FIRE COMMAND CENTER	RELEASE SECURITY DOOR LOCKS	SIGNAL LOCAL LIGHTING CONTROL FOR FULL BRIGHTNESS	SHUT DOWN AHU SUPPLY AND RETURN FANS	NOTIFY HVAC CONTROL SYSTEM VIA CONTACT	ACTIVATE LOCAL SMOKE EXHAUST SYSTEM	ACTIVATE BUILDING SMOKE CONTROL SYSTEM	RELEASE FIRE & SMOKE SHUTTERS	ACTIVATE ASSOCIATED STATUS STATION
"GENERAL"															
SPRINKLER WATERFLOW SWITCH	X	X	X	X	X	X	X	X	X	X	X			X	
SMOKE/CO DETECTOR	X	X	X	X	X	X	X	X	X	X	X			X	
HEAT DETECTOR	X	X	X	X	X	X	X	X	X	X	X			X	
DUCT TYPE SMOKE DETECTOR	X	X	X	X	X	X	X	X	X	X	X			X	
MANUAL PULL STATION	X	X	X	X	X	X	X	X	X	X				X	
LOCAL AUTOMATIC DETECTORS	X	X	X	X	X	X	X	X	X	X	X	X		X	X
LOCAL SPRINKLER WATERFLOW SWITCH	X	X	X	X	X	X	X	X	X	X	X	X		X	
MANUAL FCC CONTROL										X		X			
"AIR HANDLING EQUIPMENT"															
AHU SUPPLY DUCT TYPE SMOKE DETECTOR	X	X	X	X	X	X	X	X	X	X	X			X	
AHU RETURN DUCT TYPE SMOKE DETECTOR	X	X	X	X	X	X	X	X	X	X	X			X	
"SUPERVISORY OPERATIONS"															
CENTRAL CONTROL EQUIPMENT DOOR OPEN					X										
FCC DRILL SWITCH (SEE SPECIFICATIONS)					X										
SPRINKLER VALVE TAMPER SWITCH					X										
SUPERVISED DEVICE/WIRING DISARRANGEMENT					X										

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Drawing Title:

NOTES, LEGENDS, SYMBOLS AND ABBREVIATIONS

Issue Date: 11/19/2020
Project No.: 006240.00 Checked by: WC

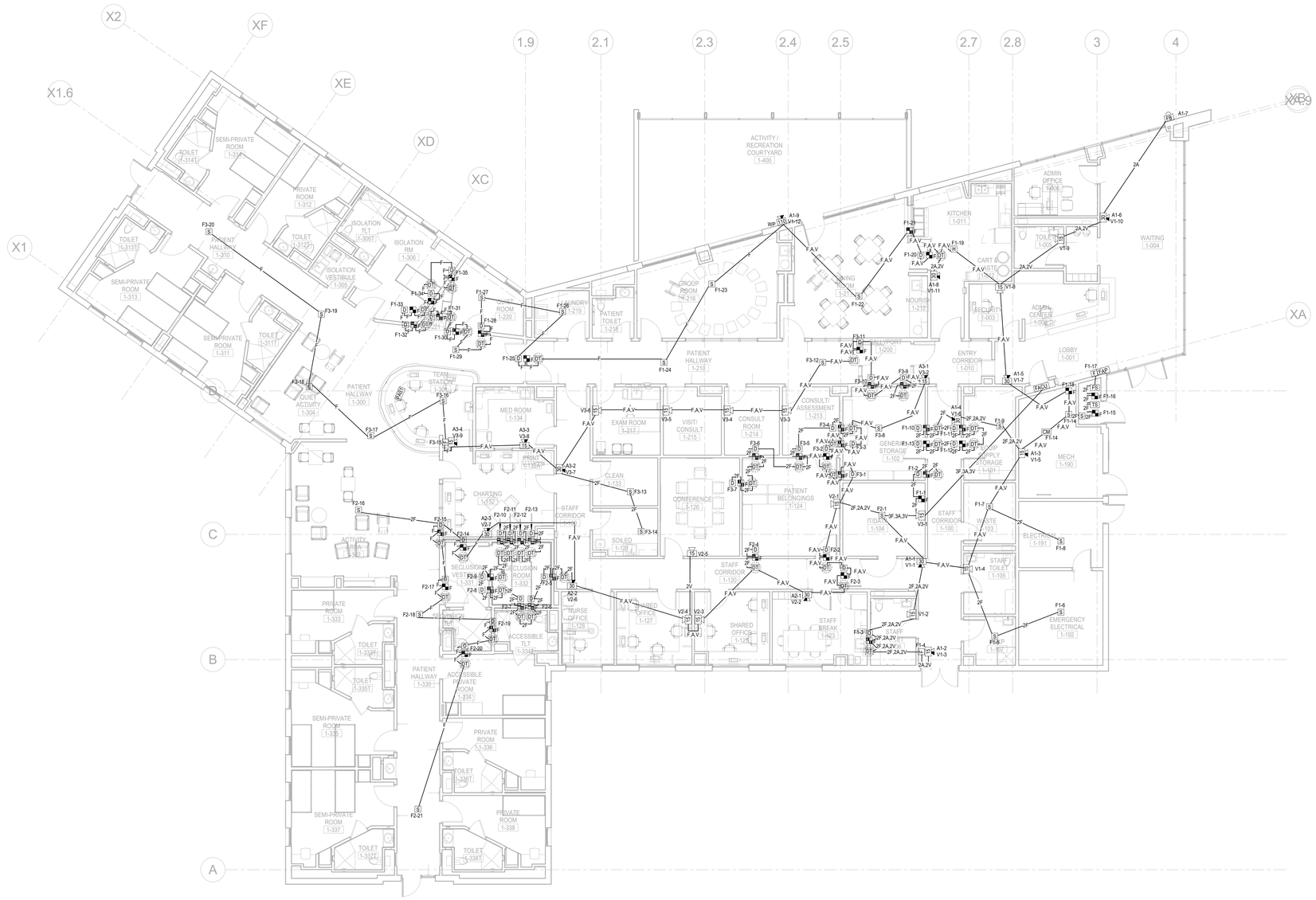
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GENERAL NOTES :

1. FIRE ALARM HAS BEEN DESIGNED TO USE "PRIVATE MODE" SIGNALING TO LIMIT THE RISK TO INSTITUTIONAL PATIENTS.



1 LEVEL 01 FIRE ALARM PLAN
1/8" = 1'-0"

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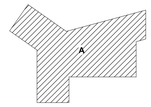
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KEY PLAN



KEY PLAN

Drawing Title:

LEVEL 01 FIRE ALARM PLAN

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This calculator provided voltage drop calculations in three formats (Point to Point, End of Line, and Load Centering).
Make sure that you know what method is accepted by, and the results do not exceed the limits set by the respective jurisdiction

		Point to Point Method	End of Line Method	Load Centering Method
Project Name	Tri City Medical Center	CIRCUIT IS WITHIN LIMITS	CIRCUIT IS WITHIN LIMITS	CIRCUIT IS WITHIN LIMITS
Date	11.04.2020			
Circuit Number	2	Totals: Current 0.538, Distance 94.01075872	Totals: Current 0.538, Distance 94.01075872	Totals: Current 0.538, Distance 94.01075872
Area Covered	LEVEL 01	Voltage Drop **0.49**	Voltage Drop **0.786**	Voltage Drop **0.393**
Nominal System Voltage	24	End of Line Voltage **23.51**	End of Line Voltage **23.21**	End of Line Voltage **23.61**
Minimum Device Voltage	20.4	Percent Drop 2.03%	Percent Drop 3.27%	Percent Drop 1.64%
Total Circuit Current	0.538			

		Wire Gauge	Ohm's Per 1000
Distance from source to 1st device	9.76256611	18	7.77
Wire Gauge for balance of circuit		18	7.77

End of Line and Load Centering Methods use only the wire guage for the first device to source
Standard Wire Resistance in Ohms per 1000 feet.
18=7.77 16=4.89 14=3.07 12=1.98 10=1.24
18-14 Awg = Solid Conductors 12-10 Awg = Stranded Conductors

Enter current in amps. .150 = 150 ma

Device Number	Device Current	Distance from previous device	Voltage At Device	Voltage Drop from source	Percent Drop
Device 1	0.064	9.76256611	23.92	0.082	0.34%
Device 2	0.094	19.78125	23.77	0.227	0.95%
Device 3	0.064	22.76662035	23.64	0.362	1.51%
Device 4	0.064	0.734375	23.63	0.365	1.52%
Device 5	0.064	10.56162241	23.59	0.407	1.69%
Device 6	0.094	24.96824759	23.52	0.480	2.00%
Device 7	0.094	5.436077262	23.51	0.488	2.03%
END			23.51	0.488	2.03%
END			23.51	0.488	2.03%
END			23.51	0.488	2.03%
END			23.51	0.488	2.03%
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END			23.51	0.488	2.03%
END			23.51	0.488	2.03%
END			23.51	0.488	2.03%
Totals	0.538	94.01075872	End of Line Voltage		**23.51**

Notes:
Wire resistance is doubled in the calculations for two wires (Positive and Negative)
The voltage calculated to the last device in any method must not be lower then
the manufactures listed minimum operating voltage (IE: rated operating voltage 20-32 VDC).

Device Manufacturer: Notifier

Model #	Candela	Current @Rated Voltage
ZR	110	0.233
SRL	15	0.064
SRL	75	0.107
SRL	30	0.063
	185	0.253
	135	0.205
P2RK	110	0.221
P2RL	15	0.069
P2RL	75	0.139
P2RL	30	0.094
	185	0.253
P2RL	15	0.069
P2RL	75	0.139

This calculator provided voltage drop calculations in three formats (Point to Point, End of Line, and Load Centering).
Make sure that you know what method is accepted by, and the results do not exceed the limits set by the respective jurisdiction

		Point to Point Method	End of Line Method	Load Centering Method
Project Name	Tri City Medical Center	CIRCUIT IS WITHIN LIMITS	CIRCUIT IS WITHIN LIMITS	CIRCUIT IS WITHIN LIMITS
Date	11.04.2020			
Circuit Number	3	Totals: Current 0.621, Distance 111.3111487	Totals: Current 0.621, Distance 111.3111487	Totals: Current 0.621, Distance 111.3111487
Area Covered	LEVEL 01	Voltage Drop **0.66**	Voltage Drop **1.074**	Voltage Drop **0.537**
Nominal System Voltage	24	End of Line Voltage **23.34**	End of Line Voltage **22.93**	End of Line Voltage **23.46**
Minimum Device Voltage	20.4	Percent Drop 2.75%	Percent Drop 4.48%	Percent Drop 2.24%
Total Circuit Current	0.621			

		Wire Gauge	Ohm's Per 1000
Distance from source to 1st device	1.165465...	18	7.77
Wire Gauge for balance of circuit		18	7.77

End of Line and Load Centering Methods use only the wire guage for the first device to source
Standard Wire Resistance in Ohms per 1000 feet.
18=7.77 16=4.89 14=3.07 12=1.98 10=1.24
18-14 Awg = Solid Conductors 12-10 Awg = Stranded Conductors

Enter current in amps. .150 = 150 ma

Device Number	Device Current	Distance from previous device	Voltage At Device	Voltage Drop from source	Percent Drop
Device 1	0.064	1.165465293	23.99	0.011	0.05%
Device 2	0.069	22.63428515	23.79	0.207	0.86%
Device 3	0.064	27.60999642	23.58	0.417	1.74%
Device 4	0.064	9.510416667	23.52	0.479	2.00%
Device 5	0.064	10	23.46	0.535	2.23%
Device 6	0.064	11.54166667	23.41	0.588	2.45%
Device 7	0.094	15.54609898	23.36	0.644	2.68%
Device 8	0.069	1.807282282	23.35	0.648	2.70%
Device 9	0.069	11.49595669	23.34	0.660	2.75%
END			23.34	0.660	2.75%
END			23.34	0.660	2.75%
END			23.34	0.660	2.75%
END			23.34	0.660	2.75%
END			23.34	0.660	2.75%
END			23.34	0.660	2.75%
END			23.34	0.660	2.75%
END			23.34	0.660	2.75%
END			23.34	0.660	2.75%
END			23.34	0.660	2.75%
END			23.34	0.660	2.75%
END			23.34	0.660	2.75%
END			23.34	0.660	2.75%
END			23.34	0.660	2.75%
END			23.34	0.660	2.75%
END			23.34	0.660	2.75%
END			23.34	0.660	2.75%
END			23.34	0.660	2.75%
Totals	0.621	111.3111487	End of Line Voltage		**23.34**

Notes:
Wire resistance is doubled in the calculations for two wires (Positive and Negative)
The voltage calculated to the last device in any method must not be lower then
the manufactures listed minimum operating voltage (IE: rated operating voltage 20-32 VDC).

Device Manufacturer: Notifier

Model #	Candela	Current @Rated Voltage
ZR	110	0.233
SRL	15	0.064
SRL	75	0.107
SRL	30	0.063
	185	0.253
	135	0.205
P2RK	110	0.221
P2RL	15	0.069
P2RL	75	0.139
P2RL	30	0.094
	185	0.253

Model #	Candela	Current @Rated Voltage
P2RL	75	0.139
P2RL	30	0.094
	185	0.253
	135	0.205
P2RK	110	0.221
P2RL	15	0.069
P2RL	75	0.139
P2RL	30	0.094
	185	0.263
	135	0.205
P2RL	15	0.069

This calculator provided voltage drop calculations in three formats (Point to Point, End of Line, and Load Centering).
Make sure that you know what method is accepted by, and the results do not exceed the limits set by the respective jurisdiction

		Point to Point Method	End of Line Method	Load Centering Method
Project Name	Tri City Medical Center	CIRCUIT IS WITHIN LIMITS	CIRCUIT IS WITHIN LIMITS	CIRCUIT IS WITHIN LIMITS
Date	11.04.2020			
Circuit Number	1	Totals: Current 1.085, Distance 206.3119788	Totals: Current 1.085, Distance 206.3119788	Totals: Current 1.085, Distance 206.3119788
Area Covered	LEVEL 01	Voltage Drop **1.12**	Voltage Drop **2.189**	Voltage Drop **1.095**
Nominal System Voltage	24	End of Line Voltage **22.88**	End of Line Voltage **21.81**	End of Line Voltage **22.91**
Minimum Device Voltage	20.4	Percent Drop 4.66%	Percent Drop 9.12%	Percent Drop 4.56%
Total Circuit Current	1.085			

		Wire Gauge	Ohm's Per 1000
Distance from source to 1st device	5.30962456	16	4.89
Wire Gauge for balance of circuit		16	4.89

End of Line and Load Centering Methods use only the wire guage for the first device to source
Standard Wire Resistance in Ohms per 1000 feet.
18=7.77 16=4.89 14=3.07 12=1.98 10=1.24
18-14 Awg = Solid Conductors 12-10 Awg = Stranded Conductors

Enter current in amps. .150 = 150 ma

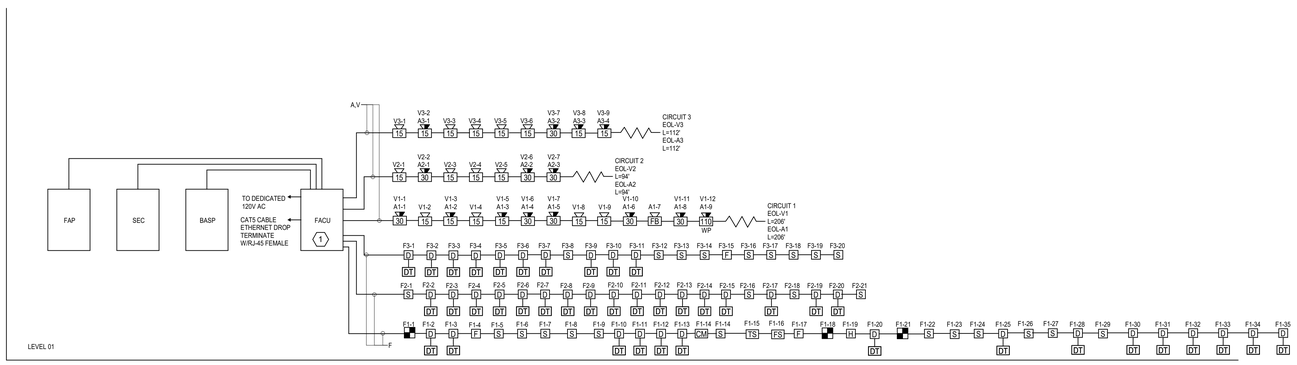
Device Number	Device Current	Distance from previous device	Voltage At Device	Voltage Drop from source	Percent Drop
Device 1	0.064	5.30962456	23.94	0.056	0.23%
Device 2	0.064	5.227725138	23.89	0.107	0.45%
Device 3	0.064	15.29171842	23.75	0.246	1.02%
Device 4	0.069	4.48984377	23.72	0.284	1.18%
Device 5	0.069	47.83396305	23.35	0.655	2.73%
Device 6	0.094	3.061379118	23.32	0.677	2.82%
Device 7	0.094	12.39051132	23.25	0.753	3.14%
Device 8	0.064	15.16559214	23.17	0.833	3.47%
Device 9	0.094	9.838662318	23.12	0.878	3.66%
Device 10	0.064	27.7083179	23.02	0.981	4.09%
Device 11	0.094	8.167894491	22.99	1.006	4.19%
Device 12	0.221	51.82674654	22.88	1.118	4.66%
END			22.88	1.118	4.66%
END			22.88	1.118	4.66%
END			22.88	1.118	4.66%
END			22.88	1.118	4.66%
END			22.88	1.118	4.66%
END			22.88	1.118	4.66%
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END			22.88	1.118	4.66%
END			22.88	1.118	4.66%
END			22.88	1.118	4.66%
END			22.88	1.118	4.66%
END			22.88	1.118	4.66%
END			22.88	1.118	4.66%
Totals	1.085	206.3119788	End of Line Voltage		**22.88**

Notes:
Wire resistance is doubled in the calculations for two wires (Positive and Negative)
The voltage calculated to the last device in any method must not be lower then
the manufactures listed minimum operating voltage (IE: rated operating voltage 20-32 VDC).

Device Manufacturer: Notifier

Model #	Candela	Current @Rated Voltage
P2RK	110	0.221
P2RL	15	0.069
P2RL	75	0.139
P2RL	30	0.094
	185	0.253
	135	0.205
ZR	110	0.233
SRL	15	0.064
SRL	75	0.107
SRL	30	0.063
	185	0.253

Model #	Candela	Current @Rated Voltage
P2RK	110	0.221
P2RL	15	0.069
P2RL	75	0.139
P2RL	30	0.094
	185	0.253
	135	0.205



1 FIRE ALARM RISER DIAGRAM
NTS

GENERAL NOTES:

A. ALL DEVICES SHOWN CONNECTED TO FACU SHALL BE CONNECTED IN A PHYSICALLY SEPARATED LOOP.

B. INITIATING DEVICES INCLUDE ADDRESSABLE PULL STATIONS, SMOKE DETECTORS, DUCT DETECTORS, HEAT DETECTORS, TAMPER SWITCHES, FLOW SWITCHES, AND RELAY MONITORING MODULES.

C. REFER TO SEQUENCE OF OPERATION FOR MORE REQUIREMENTS.

KEYED NOTES ⬡ :

1. PROVIDE ADDRESSABLE RELAY TO OVERRIDE BUILDING MANAGEMENT SYSTEM UPON ACTIVATION OF SMOKE CONTROL SYSTEM.

TRI CITY	ITEM	DESCRIPTION	STANDBY CURRENT PER UNIT (AMPS)		QTY		TOTAL STANDBY CURRENT PER ITEM	ALARM CURRENT PER UNIT (AMPS)		QTY		TOTAL ALARM CURRENT PER ITEM
	FACU	FACP CABINET	0.35000	X	1	=	0.3500	0.35000	X	1	=	0.3500
	FAP	ANNUNCIATOR CABINET	0.02500	X	1	=	0.0250	0.06430	X	1	=	0.0643
	F	MANUAL PULL STATION	0.00038	X	3	=	0.0011	0.00500	X	3	=	0.0150
	S	SMOKE DETECTOR	0.00020	X	25	=	0.0050	0.00450	X	25	=	0.1125
	H	HEAT DETECTOR	0.00020	X	1	=	0.0002	0.00450	X	1	=	0.0045
	DT	DUCT DETECTOR TEST STATION	0.00000	X	4	=	0.0000	0.01200	X	4	=	0.0480
	DD	DUCT SMOKE DETECTOR	0.00020	X	4	=	0.0008	0.00450	X	4	=	0.0180
	H/V	HORN STROBE 15cd	0.00000	X	5	=	0.0000	0.07300	X	5	=	0.3650
	H/V	HORN STROBE 30cd	0.00000	X	9	=	0.0000	0.09400	X	9	=	0.8460
	H/V	HORN STROBE 75cd	0.00000	X	0	=	0.0000	0.13900	X	0	=	0.0000
	H/V	EXTERIOR HORN STROBE 110cd	0.00000	X	1	=	0.0000	0.22100	X	1	=	0.2210
	V/O	STROBE 15cd	0.00000	X	13	=	0.0000	0.04300	X	13	=	0.5590
	V/O	STROBE 30cd	0.00000	X	0	=	0.0000	0.06300	X	0	=	0.0000
	V/O	STROBE 75cd	0.00000	X	0	=	0.0000	0.10700	X	0	=	0.0000
	R	RELAY	0.00049	X	9	=	0.0044	0.00170	X	9	=	0.0153
	FB	EXTERIOR FIRE BELL	0.00000	X	1	=	0.0000	0.03110	X	1	=	0.0311
				X		=	0.0000		X	0	=	0.0000
				X		=	0.0000		X	0	=	0.0000
				X		=	0.0000		X	0	=	0.0000
				X		=	0.0000		X	0	=	0.0000
				X		=	0.0000		X	0	=	0.0000
						TOTAL SYSTEM STANDBY CURRENT (AMPS)	0.3865				TOTAL SYSTEM ALARM CURRENT (AMPS)	2.6497

Prepared for: TRI CITY MEDICAL CENTER	REQUIRED STANDBY TIME (HRS) NFPA 72-2002 4.4.1.5.3.1		TOTAL SYSTEM STANDBY CURRENT (AMPS)		REQUIRED STANDBY CAPACITY (AMP-HOURS)	REQUIRED ALARM TIME (HOURS) NFPA 72-2002 4.4.1.5.3.1		TOTAL SYSTEM ALARM CURRENT (AMPS)		REQUIRED ALARM CAPACITY (AMP-HOURS)
	24	X	0.3865	=	9.2758	0.083	X	2.6497	=	0.2199

Prepared by:CANNON DESIGN	REQUIRED STANDBY CAPACITY (AMP-HOURS)		REQUIRED ALARM CAPACITY (AMP-HOURS)		TOTAL CAPACITY (AMP-HOURS)	TOTAL CAPACITY (AMP-HOURS)		SAFETY FACTOR		ADJUSTED BATTERY CAPACITY (AMP-HOURS)
	9.28	+	0.2199	=	9.4957	9.4957	X	120%	=	11

Tri-City Medical Center

Tri-City Medical Center
Psychiatric Health Facility

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Rev.	Description	Date
	AGENCY APPROVAL	
	ISSUE FOR PLAN REVIEW BACKCHECK	21 JAN 2022
	OSHPD PLAN REVIEW UPDATE	17 SEP 2021
	ISSUE FOR OSHPD SUBMITTAL	19 NOV 2020

FACILITY #: 12372
OSHPD #:

ARCHITECT SEAL

CONSULTANT SEAL

REGISTERED PROFESSIONAL ENGINEER ROBERT J. GAMA JR. E19272 ELECTRICAL STATE OF CALIFORNIA

Drawing Title:

FIRE ALARM RISER DIAGRAM AND LOAD CALCULATIONS

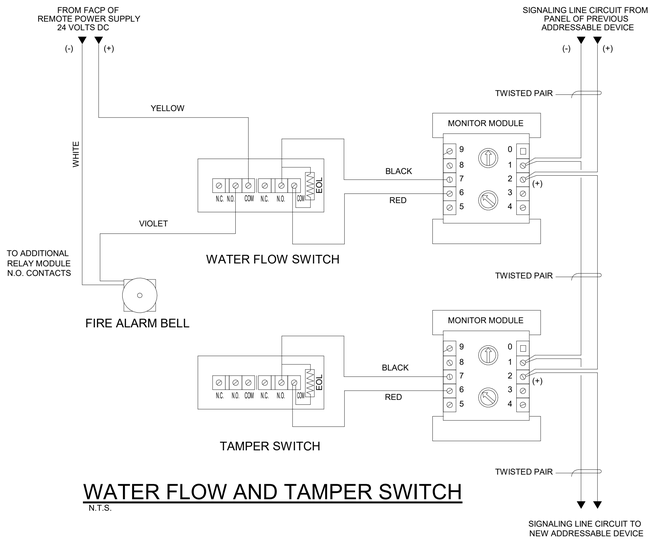
Issue Date: 11/19/2020
Project No.: 006240.00 Checked by: WC

FA541

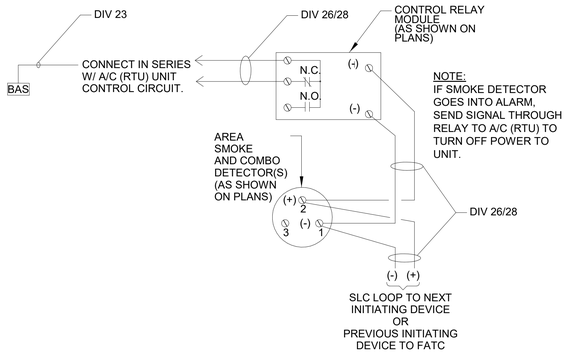
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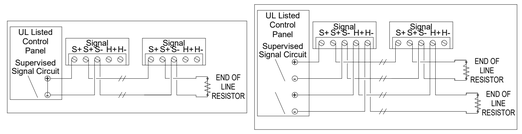
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WATER FLOW AND TAMPER SWITCH
N.T.S.



TYPICAL A/C (RTU) UNIT SHUT DOWN CONTROLS
N.T.S.



TEMPORAL CODE 3 FOR ALL AUDIBLE DEVICES OBTAINED FROM FIRE ALARM CONTROL PANEL.

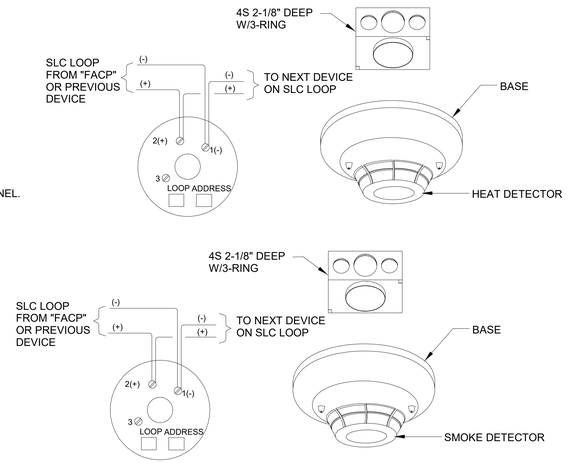
DUAL INPUT HORN/STROBE WIRING DIAGRAM
N.T.S.

NOTE:
NOTIFICATION APPLIANCE IS RATED PER INDIVIDUAL NAMEPLATE.

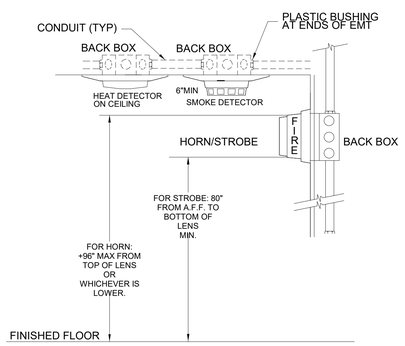
VISUAL WIRING DIAGRAM

STROBE LIGHT
N.T.S.

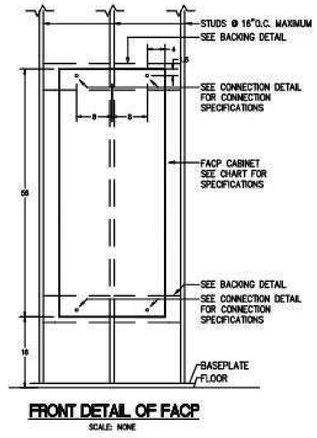
TYPICAL (SMOKE/HEAT/CO DETECTOR) CEILING MOUNT INSTALLATION DETAIL
N.T.S.



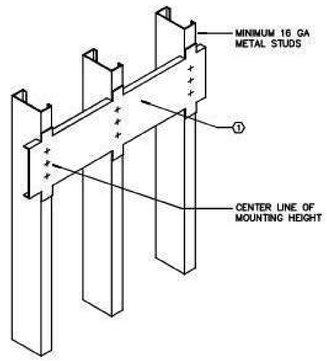
SMOKE AND HEAT DETECTORS DETAIL WIRING
N.T.S.



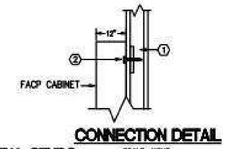
HORN AND STROBE HEIGHT REQUIREMENTS
N.T.S.



FRONT DETAIL OF FACP
SCALE: NONE



BACKING DETAIL
SCALE: NONE



CONNECTION DETAIL
SCALE: NONE

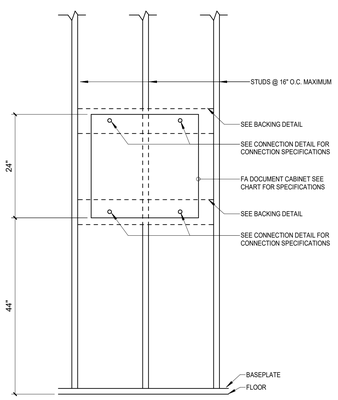
METAL STUDS

NOTES:
1. 16 GA x 6" WIDE UNPUNCHED TRACK WITH (3) #10 SHEET METAL SCREWS TO EACH STUD, TYPICAL. EXTEND TO STUD BEYOND SUPPORTED ITEM.
2. ATTACH CONTROL PANEL TO BACKING WITH (4) 1/4x 2" TEK SCREWS.

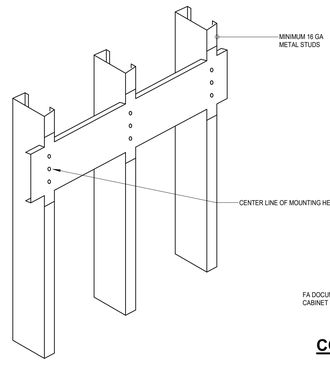
NOTE
COORDINATE MOUNTING OF PANELS WITH FRAMING CONTRACTOR

PRODUCT IDENTIFICATION NUMBER	DESCRIPTION		BACKBOX		
	SIZE	WEIGHT	WIDTH	HEIGHT	DEPTH
4100ES	3-BAY	175	24	56	12

1 FACP MOUNTING DETAIL
NTS



FRONT DETAIL OF FATC

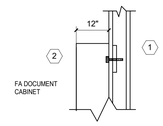


BACKING DETAIL

KEYED NOTES

1. 16 GA X 6" WIDE UNPUNCHED TRACK WITH (3) #10 SHEET METAL SCREWS TO EACH STUD. TYPICAL EXTEND TO STUD BEYOND SUPPORTED ITEM.
2. ATTACK CONTROL PANEL TO BACKING WITH (4) 1/4 X 2" TEK SCREWS.

NOTE:
COORDINATE MOUNTING OF PANELS WITH FRAMING CONTRACTOR.



CONNECTION DETAIL

PRODUCT IDENTIFICATION NUMBER	DESCRIPTION		BACKBOX		
	SIZE	WEIGHT	WIDTH	HEIGHT	DEPTH
ACE/D	ACE D	10	23.5"	23.5"	23.5"

2 FATC DOCUMENT CABINET MOUNTING DETAIL
NTS

Tri-City Medical Center

Tri-City Medical Center
Acute Psychiatric Hospital

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Landscape Architect
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619.325.1990

Rev.	Description	Date
	ISSUED FOR PLAN REVIEW	27 OCT 2021
	AGENCY APPROVAL	

ARCHITECT SEAL

CONSULTANT SEAL

REGISTERED PROFESSIONAL ENGINEER ROBERT J. GARCIA JR. E19272 ELECTRICAL STATE OF CALIFORNIA

Drawing Title:

FIRE ALARM DETAILS

Issue Date: 06/15/2021

Project No.: 006240.00 Checked by: WC

FA721

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11/23/2020 1:14:20 PM