San Rafael City Schools



SRCS District Office - Business Services & Capital Facilities

310 Nova Albion Way, San Rafael, CA 94903

Bid Set

12/20/23



2023-SR001-002

APPLICABLE CODES PROJECT TEAM 2022 CALIFORNIA BUILDING CODE (CBC) PART 2, TITLE 24, (CCR) 2022 CALIFORNIA GREEN BUILDING CODE PART 11, TITLE 24, (CCR) SAN RAFAEL CITY SCHOOLS SAN RAFAEL HIGH SCHOOL DISTRICT 2022 CALIFORNIA FIRE CODE (CFC) PART 9, TITLE 24 (CCR) 2022 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 (CCR) 310 NOVA ALBION WAY 2022 CALIFORNIA PLUMBING CODE (CPC) PART 5, TITLE 24 (CCR) SAN RAFAEL, CA 94903 2022 CALIFORNIA ELECTRICAL CODE (CEC) PART 3, TITLE 24 (CCR) TEL (415) 485-2445 2022 CALIFORNIA ENERGY CODE (CEC) PART 6, TITLE 24, (CCR) 2022 CALIFORNIA ADMINISTRATIVÈ CODE (CAC) PART 1, TÌTLE 24 (CCR) ARCHITECT OF RECORD
HARLEY ELLIS DEVEREAUX

417 MONTGOMERY STREET SUITE 400 SAN FRANCISCO, CA 94104

ELECTRICAL ENGINEER OF RECORD

O'MAHONY & MYER 4340 REDWOOD HWY, SUITE 245

SAN RAFAEL, CA 94903

TEL (415) 492-0420

MECHANICAL & PLUMBING ENGINEER OF RECORD
H&M MECHANICAL GROUP
8517 EARHART RD, SUITE 230
OAKLAND, CA 94621
TEL (510) 569-2000

TEL (415) 981-2345

2010 ADA STANDARDS ACCESSIBLE DESIGN CCR TITLE 19 PUBLIC SAFETY DIVISION 1 STATE FIRE MARSHAL

INCLUDING ANY CODES REFERRED TO BY THE ABOVE, NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CODES. LIFE SAFETY CODE 101 AND OTHER NFPA PAMPHLETS. REGULATIONS THAT RELATE TO THE LICENSING OF HEALTH FACILITIES, SUCH AS TITLE 22, DIVISION 5, CHAPTER 1, 2, 3, 4, AND 5

THE ABOVE CODES AND REGULATIONS REFER TO THE LATEST EDITION OR REVISION IN FORCE ON THE DATE OF THE CONTRACT, UNLESS OTHERWISE STATED, NOTHING ON THE DRAWINGS IS TO BE CONSTRUED AS REQUIRING OR PERMITTING WORK THAT IS CONTRARY TO THE LISTED CODES AND REGULATIONS, OR OTHER LOCAL STATE OR FEDERAL CODES OR REGULATIONS WHICH MAY BE APPLICABLE.

PROJECT DESCRIPTION

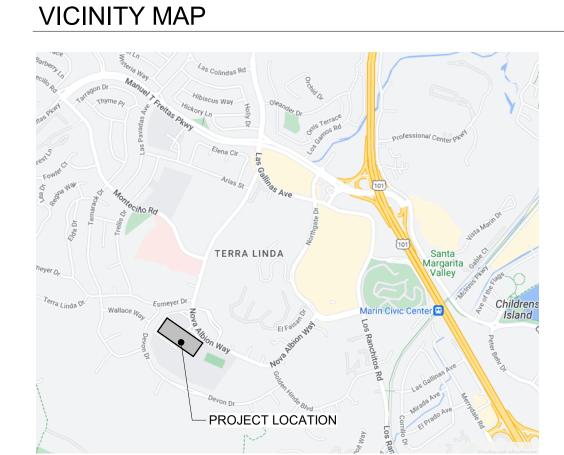
CONSTRUCTION TYPE: V-B

SPRINKLERED: YES

THIS PROJECT CONSISTS OF INTERIOR, NON-STRUCTURAL DEMOLITION AND REMODEL OF BUSINESS SERVICES & CAPITAL FACILITIES OFFICES ALL BUILDINGS ARE EXISTING AND NO SITE WORK IS INCLUDED IN PROJECT SCOPE. ADDRESS: 320 NOVA ALBION WAY, SAN RAFAEL, CA 94903 BUILDING 'C' EXISTING BUILDING OCCUPANCY TYPE: B PROJECT AREA: 1,680 SF

PROJECT LOCATION San Francisco

VICINITY MAP



San Rafael City Schools

310 Nova Albion Way, San Rafael, CA

SHEET INDEX

Architectural General Notes & Abbreviations

SHEET NAME

SHEET NUMBER

G-000 Co
G-001 Pro
G-002 Sig
G-003 Acc
ARCHITECTURAL

Coversheet

Finish Plan

Schedules

Furniture Plan Interior Elevations

Partition Types

Project Information Signage Details Accessibility Notes

Demo & Floor Plans

Demo & Reflected Ceiling Plans

Typical Interior Metal Framing Door & Interior Details

Mechanical Notes and Legend Mechanical Notes and Legend

General Notes, List of Drawings

Floor Plans - Electrical Demolition

Floor Plan - Lighting
Floor Plans - Power & Signal

Mechanical - 1st Floor Plans Mechanical - Roof Plan

Electrical Symbols List

GENERAL

A-001 A-101 A-123 A-143 A-163 A-411

A-571 A-572 A-575 A-601 MECHANICAL M001 M002 M101

ELECTRICAL

E-001 E-002 E-101 E-201

E-301 E-701 SRCS District Office - Business Services & Capital **Facilities**

310 Nova Albion Way, San Rafael, CA

△ Date Issued For 1 12/20/23 50% Construction Documents

> 417 Montgomery Street Suite 400 San Francisco, California 94104 USA (415) 981-2345 WWW.HED.DESIGN

2023-SR001-002

Project Information

LETTERS AND NUMBERS SHALL BE 5/8"

HT META PLUS SANS SERIF MEDIUM

- SIGNAGE SCHEDULE ADDRESSES SIGNAGE ASSOCIATED WITH DOORS ONLY. SEE FLOOR PLANS, EXTERIOR ELEVATIONS AND INTERIOR ELEVATIONS FOR ADDITIONAL SIGNAGE NOT CALLED OUT IN THE SIGNAGE SCHEDULE
 - 2. FINAL TACTILE SIGNAGE TEXT TO BE DETERMINED AT TIME OF SUBMITTAL TYPICAL
- 3. INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGNAGE FOR BUILDINGS, SEE FLOOR PLANS AND SIGNAGE SCHEDULE
- CODE GOVERNED SIGNS TO BE FIELD-INSPECTED PER CBC SECTION 11B-703.1.1.2.

San Rafael City
Schools

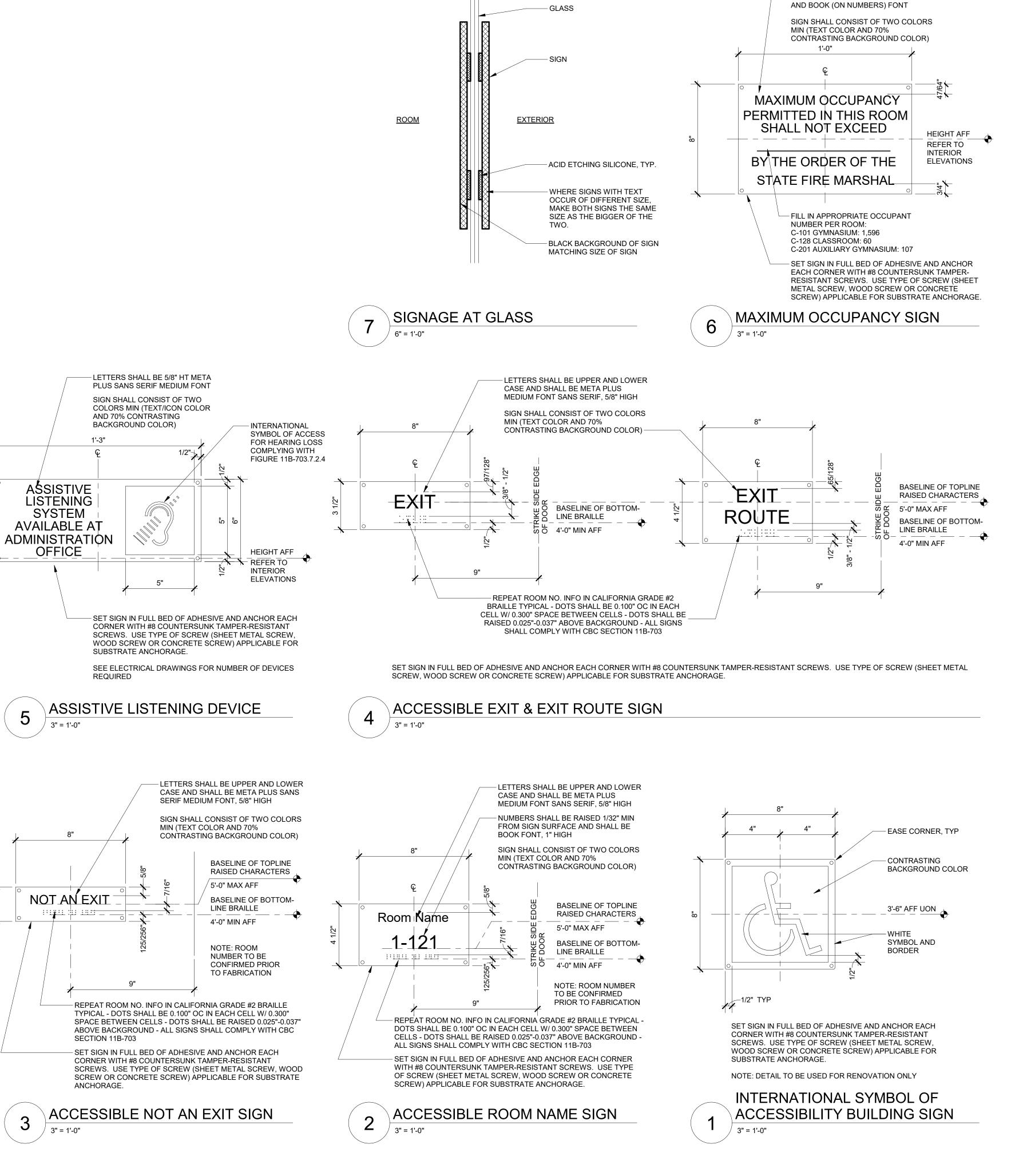
SAN RAFAEL
CITY SCHOOLS

310 Nova Albion Way, San Rafael, CA

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2023-SR001-002

Signage Details

G-002

1 360://SR001_SRCS Terra Linda HS/2023-SR001-002_District Office TI_Arch_HED.rvt

GENERAL NOTES

- 1. THE CONSTRUCTION CONTRACT IS FOR A COMPLETE AND FULLY FUNCTIONING INSTALLATION. THESE DOCUMENTS DESCRIBE THE DESIGN INTENT AND SPECIFIC REQUIREMENTS OF THE INSTALLATION. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. THESE DOCUMENTS ARE NOT MEANT TO SHOW EVERY ITEM REQUIRED TO CONSTRUCT THE WORK. ITEMS SUCH AS, BUT NOT LIMITED TO, FASTENERS, CONNECTORS, FILLERS, MISCELLANEOUS CLOSURE ELEMENTS, ANCILLARY CONTROL WIRING AND POWER WHERE REQUIRED FOR THE CONTROL OR OPERATION OF THE PROVIDED EQUIPMENT, ETC. ARE NOT ALWAYS SHOWN BUT ARE CONSIDERED TO BE INCLUDED IN THE SCOPE OF THE WORK. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE A FULLY FUNCTIONING INSTALLATION WHICH MEETS THE DESIGN INTENT, INCLUDING BUT NOT LIMITED TO THE SPECIFIC REQUIREMENTS IN THESE DOCUMENTS.
- THESE DOCUMENTS DESCRIBE WORK UNDER A SINGLE CONSTRUCTION CONTRACT. THE USE OF SUB-CONTRACTORS IS THE ELECTION OF THE GENERAL CONTRACTOR. IT IS NOT THE INTENT OF THE DOCUMENTS TO DIVIDE THE WORK AMONG SUB-CONTRACTORS. WHERE THE DOCUMENTS IDENTIFY WORK WITH SUCH NOTES AS "NOT IN MECHANICAL WORK" OR "NOT IN ELECTRICAL WORK" OR "SEE STRUCTURAL DRAWINGS," IT MEANS THAT THE WORK IS NOT FURTHER DESCRIBED OR SPECIFIED ON THE DRAWING WHERE SUCH NOTES APPEAR; IT DOES NOT PRECLUDE THE CONTRACTOR FROM DELEGATING THE WORK TO ENTITIES OF HIS ELECTION. IN ADDITION, THE DIVISION OF THE CONTRACT DOCUMENTS INTO ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND MECHANICAL OR OTHER DESIGN DISCIPLINES IS FOR CONVENIENCE ONLY, AND IS NOT INTENDED TO DIVIDE THE WORK AMONG VARIOUS SUB-CONTRACTORS, OR IMPLY THAT ALL OF THE WORK FOR A PARTICULAR TRADE IS SHOWN ONLY IN THOSE DRAWINGS OR SPECIFICATIONS.
- 3. REFERENCE TO "CONTRACTOR" IN THESE DOCUMENTS SHALL BE INTERPRETED AS REFERRING TO THE GENERAL CONTRACTOR OR TO ANY SUB-CONTRACTOR TO THE GENERAL CONTRACTOR, COLLECTIVELY OR AS INDIVIDUAL ENTITIES. FURTHER, REFERENCE TO A PARTICULAR SUB-CONTRACTOR IS FOR CONVENIENCE ONLY, AND IS NOT INTENDED TO LIMIT THE SCOPE OF THE WORK TO THAT TRADE OR LIMIT THE RESPONSIBILITIES OF THE GENERAL CONTRACTOR TO COORDINATE THE WORK OF ALL TRADES AS DEFINED BY THE OWNER/CONTRACTOR AGREEMENT.
- 4. THE DRAWINGS AND PROJECT MANUAL ESTABLISH DETAILED MINIMUM REQUIREMENTS FOR THE DESIGN AND CONSTRUCTION OF THE PROJECT. PARTIAL OR OUTDATED SETS OF CONTRACT DOCUMENTS SHOULD NOT BE DISTRIBUTED OR UTILIZED.
- 5. WORK IS TO COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL CODES AND REGULATIONS IN FORCE AT THE TIME OF CONSTRUCTION.
- 6. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING FEES FOR PERMITS PRIOR TO STARTING CONSTRUCTION. PERMITS ARE TO BE POSTED IN A CONSPICUOUS PLACE ON THE PROJECT SITE AS REQUIRED BY AUTHORITY HAVING JURISDICTION.
- UNLESS SPECIFICALLY NOTED AS BEING RE-USED, MATERIALS FURNISHED AT THE JOB SITE SHALL BE NEW AND FREE FROM DEFECTS, AND SHALL BE STORED AT THE SITE IN SUCH A MANNER AS TO PROTECT THEM FROM DAMAGE. ALL WORK SHALL BE BEST PRACTICE OF EACH TRADE.
- 8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETELY COORDINATE WORK AS REQUIRED TO MEET THE DESIGN INTENT AS DEFINED BY THE DOCUMENTS. THE CONTRACTOR SHALL LAY OUT AND SEQUENCE THE INSTALLATION OF WORK SO THAT THE DIFFERENT SYSTEMS DO NOT OBSTRUCT INSTALLATION OF SUBSEQUENT WORK. IN GENERAL, SYSTEMS INSTALLED FIRST SHOULD BE AS HIGH AND AS TIGHT TO THE STRUCTURE AS POSSIBLE TO ALLOW SPACE FOR SYSTEMS WHICH FOLLOW.
- 9. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO REVIEW DRAWINGS, PROJECT MANUAL, ADDENDA, BULLETINS, ETC. IN ORDER TO ENSURE COMPLETE COORDINATION OF WORK. FAILURE TO REVIEW AND COORDINATE ALL CONTRACT DOCUMENTS BY THE GENERAL CONTRACTOR WITH THE SUB-CONTRACTORS FOR APPLICABLE PORTIONS OF THE WORK DOES NOT RELIEVE ANY PARTY FROM PROVIDING MATERIALS AND WORK REQUIRED FOR A COMPLETE INSTALLATION.
- 10. THE PROJECT MANUAL, WHICH INCLUDES THE GENERAL CONDITIONS, SUPPLEMENTAL CONDITIONS, AND TECHNICAL SPECIFICATIONS, AND THE DRAWINGS, ARE COMPLIMENTARY AND TOGETHER DESCRIBE THE PROJECT REQUIREMENTS. WHERE THERE ARE DISCREPANCIES BETWEEN THE PROJECT MANUAL AND THE DRAWINGS, THE CONTRACTOR SHALL ADVISE THE ARCHITECT OF SUCH AND REQUEST CLARIFICATION. IN GENERAL, THE PROJECT MANUAL TAKES PRECEDENCE OVER DRAWINGS. LARGE SCALE DETAILS TAKE PRECEDENCE OVER SMALL SCALE DETAILS.
- 11. THE GENERAL CONTRACTOR AND SUB-CONTRACTORS SHALL VISIT THE SITE PRIOR TO BIDDING IN ORDER TO FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS AND THE IMPACT OF THE PROPOSED WORK INDICATED ON THE DRAWINGS AND SPECIFICATIONS ON THESE CONDITIONS. ANY QUESTIONS REGARDING THE COORDINATION OF NEW WORK WITH EXISTING CONDITIONS MUST BE SUBMITTED TO THE ARCHITECT IN WRITING PRIOR TO THE BID SUBMISSION AND WITH ADEQUATE TIME FOR RESPONSE TO ALL BIDDERS. THE ARCHITECT WILL RESPOND TO TIMELY QUESTIONS WITH A WRITTEN RESPONSE TO ALL BIDDERS.
- 12. ALL WORK NOTED "NIC" IS NOT IN CONTRACT. CONTRACTOR SHALL COORDINATE WITH OTHER CONTRACTORS ON SITE PER REQUIREMENT ESTABLISHED BY OWNER.
- 13. EXISTING DIMENSIONS AND CONDITIONS INDICATED IN THESE DOCUMENTS ARE FROM ELECTRONIC CAD INFORMATION PROVIDED BY THE OWNER AND ARE ASSUMED TO BE ACCURATE AS SHOWN. THE CONTRACTOR SHALL VERIFY THE ACCURACY OF SUCH INFORMATION PRIOR TO THE START OF CONSTRUCTION, AND ADVISE THE ARCHITECT OF ANY DEVIATIONS OR CONFLICTS WITH THE INFORMATION SHOWN ON THE DRAWINGS.
- 14. DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR SHALL REFER TO THE DIMENSIONS INDICATED OR THE ACTUAL SIZES OF CONSTRUCTION ITEMS. WHERE NO DIMENSION OR METHODS OF DETERMINING A LOCATION EXISTS, VERIFY DIMENSION WITH ARCHITECT PRIOR TO LAYOUT AND INSTALLATION.
- 15. THE DRAWINGS AND REFERENCED DETAILS HAVE BEEN DIMENSIONED IN ORDER TO ESTABLISH THE CONTROL AND GUIDELINES FOR FIELD LAYOUT. WHERE DISCREPANCIES EXIST BETWEEN THE DRAWINGS AND FIELD CONDITIONS THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF SUCH PRIOR TO START OF WORK.
- 16. DIMENSIONS ON DOCUMENTS ARE TO FACE OF FINISH MATERIALS UNLESS OTHERWISE INDICATED.
- 17. WHERE DIMENSIONS INDICATED ARE NOTED AS VERIFY IN FIELD (VIF) THE DIMENSION SHOWN IS THE BASIS OF DESIGN, BUT MAY DIFFER FROM ACTUAL CONDITIONS. CONTRACTOR SHALL VERIFY THESE DIMENSIONS WHILE LAYING OUT THE WORK AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO PROCEEDING. WHERE DIMENSIONS ARE NOTED AS "+/-" FIELD DIMENSIONS MAY VARY FROM THE NOTED DIMENSIONS BY MINOR AMOUNTS. DISCREPANCIES OF MORE THAN 1" SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CONFIRMATION. DIMENSIONS NOTED AS "HOLD" OR

"CLEAR" ARE TO BE ACCURATE TO WITHIN 1/4".

- 18. DETAILS ARE KEYED TO THE PLANS AT TYPICAL LOCATIONS. TYPICAL DETAILS APPLY TO ALL LOCATIONS WHICH ARE SIMILAR BUT ARE NOT NECESSARILY KEYED TO EVERY LOCATION TO WHICH THEY APPLY. CONTRACTOR IS RESPONSIBLE TO COORDINATE THE LOCATION OF ALL TYPICAL DETAILS AND INSTALL THE WORK INDICATED. FEATURES NOT SHOWN IN THEIR ENTIRETY SHALL BE COMPLETELY PROVIDED AS IF SHOWN IN FULL. IF DISCREPANCIES EXIST, CONTRACTOR IS TO REQUEST CLARIFICATION BY THE ARCHITECT OF SUCH CONDITIONS.
- 19. FINISH FLOOR ELEVATIONS REFER TO TOP OF CONCRETE SLAB, UNLESS NOTED OTHERWISE. WHERE CONCRETE SLAB IS DEPRESSED TO ACCOMMODATE SETTING BEDS, RAISED ACCESS FLOOR, OR OTHER SIMILAR FLOOR ASSEMBLIES, FINISH FLOOR ELEVATIONS ARE TO TOP OF FINISH FLOOR ASSEMBLY INDICATED.
- 20. FIRE RATING "TAPES" INDICATED ON FLOOR PLANS SHOW EXTENT OF FIRE RATED PARTITIONS, BARRIERS AND FIRE WALLS. RATING IN A PARTITION SHALL BE CONTINUOUS AND SHALL CONTINUE OVER DOORS AND OVER AND BELOW WINDOWS WHETHER OR NOT THEY ARE SHOWN AS SUCH ON THE PLANS. REFER TO PARTITION DETAILS FOR REQUIREMENTS OF THE RATED ASSEMBLIES.
- 21. VERIFY AND COORDINATE SIZES, LOCATION AND MOUNTING REQUIREMENTS OF ALL EQUIPMENT AND FIXTURES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE REQUIRED BLOCKING, BACKING, SLEEVES, ETC. FOR A COMPLETE, NEAT INSTALLATION. COORDINATE INSTALLATION OF ALL SLEEVES AND OPENINGS AS REQUIRED THROUGH ALL EXISTING OR NEW CONSTRUCTION.

22. DETAILS INDICATE DESIGN INTENT OF WORK IN PLACE. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB CONDITIONS OR DIMENSIONS AND ARE TO BE INCLUDED AS PART OF THE WORK.

- 23. PROVIDE PROTECTION FOR PEDESTRIANS OR OCCUPANTS OF ADJACENT AREAS OF THE BUILDING AS NECESSARY AND AS REQUIRED BY THE AUTHORITY
- HAVING JURISDICTION.

 24. MAINTAIN THE PREMISES CLEAN AND FREE OF TRASH AND DEBRIS. PROTECT
- PROJECT, THE SITE, AND PERSONAL PROPERTY FROM DAMAGE.
- 25. PROTECT WORK AREAS AND EXISTING ADJACENT AREAS, INCLUDING EXISTING UTILITIES, FROM DAMAGE. REPAIR, REPLACE, OR PATCH ANY DAMAGE DUE TO CONSTRUCTION. REPAIRED CONSTRUCTION IS SUBJECT TO REVIEW AND ACCEPTANCE BY ARCHITECT.
- 26. PROVIDE REQUIRED TEMPORARY UTILITIES, BRACING, SUPPORTS, SHORING, ETC. CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN ADEQUACY AND SAFETY OF ERECTION.
- 27. CONTRACTOR SHALL MAINTAIN CURRENT UPDATED RECORD DRAWINGS AND SPECIFICATIONS ON SITE AT ALL TIMES.
- 28. CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO SITE SAFETY AND SECURITY FOR WORKERS AND GENERAL MEMBERS OF THE PUBLIC.
- 29. METAL FABRICATIONS AND SUPPORT ASSEMBLIES WHETHER SHOWN OR NOT SHALL BE PROVIDED FOR THE STRUCTURAL SUPPORT OF MISCELLANEOUS ELEMENTS. GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ENGINEERED STRUCTURAL ASSEMBLIES AND CALCULATIONS SHOWING COMPLIANCE WITH CODE REQUIREMENTS AND ACCOUNTING FOR STATIC AND DYNAMIC LOADS INCLUDING ANY WIND OR SEISMIC LOADS, THERMAL MOVEMENT OF SUPPORTING STRUCTURE AND DIMENSIONAL TOLERANCES OF THE BUILDING.
- 30. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL STIFFENERS, BRACING, BACK-UP PLATES AND SUPPORTING BRACKETS REQUIRED FOR APPROPRIATE INSTALLATION OF ALL TOILET ROOM ACCESSORIES AND PARTITIONS, AND ALL WALL MOUNTED OR SUSPENDED MECHANICAL, ELECTRICAL OR MISCELLANEOUS EQUIPMENT.
- 31. PIPE SLEEVES IN MECHANICAL EQUIPMENT ROOMS EXTEND 2" ABOVE THE FLOOR LINE. FILL THE ANNULAR SPACES OF PIPE SLEEVES THROUGH THE FLOOR OR THROUGH RATED WALLS WITH FIRE SAFING AND SMOKE SEAL COMPOUND AS INDICATED ON THE SPECIFICATION, AND AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- 32. SIZES OF MECHANICAL EQUIPMENT PADS AND BASES SHOWN ON PLAN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY DIMENSIONS OF ALL PADS AND BASES WITH THE APPROPRIATE EQUIPMENT MANUFACTURERS. CONTRACTOR SHALL COORDINATE MOUNTINGS WITH APPROPRIATE EQUIPMENT MANUFACTURERS. PADS AND BASES SHALL BE INDICATED ON SUBMITTALS AND BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO LAY-OUT OF REINFORCING STEEL OR STEEL DECK.
- 33. PROVIDE ACCESS PANELS FOR MECHANICAL AND ELECTRICAL EQUIPMENT AS REQUIRED BY APPLICABLE CODES. ALL ACCESS PANELS IN GYP BOARD SHALL BE CONCEALED, MUD-IN TYPE. ELECTRICAL J-BOXES, PLUMBING CLEANOUTS, FIRE DAMPERS AND OTHER SIMILAR ITEMS REQUIRING ACCESS ARE NOT TO BE LOCATED ABOVE GYPSUM BOARD OR SIMILAR NON-ACCESSIBLE CEILING.

ABBREVIATIONS

ADJACENT, ADJUSTABLE ABOVE FINISHED FLOOR ALT ALTERNATE BLDG BUILDING CIP CAST-IN-PLACE CONSTRUCTION JOINT, CONTROL JOINT CENTERLINE CLG CEILING CLR CLEAR, CLEARANCE CMU CONCRETE MASONRY UNIT(S) COL COLUMN CONC CONCRETE DET DETAIL DRINKING FOUNTAIN DIA DIAMETER DIM DIMENSION DN DOWN DRAWING **EXHAUST FAN EXPANSION JOINT** ELEVATION (GRADE) ELECTRIC WATER COOLER **EXIST** EXISTING EXP EXPOSED **EXTERIOR** FLOOR DRAIN FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FFE FURNITURE, FIXTURES & EQUIPMENT FIN FINISH, FINISHED FIRE RATED, FIRE RETARDANT FIRE RETARDANT TREATED WOOD GAUGE

GALV **GALVANIZED GYPSUM BOARD** HM HOLLOW METAL HORIZ HORIZONTAL INTERIOR MAX MAXIMUM MFR MANUFACTURER MIN MINIMUM MASONRY OPENING MO NOT IN CONTRACT

E NOM NOMINAL

NTS NOT TO SCALE

OC ON CENTER

OFCI OWNER FURNISHED CONTRACTOR INSTALLED

OFOI OWNER FURNISHED OWNER INSTALLED

OH OPPOSITE HAND
OPP OPPOSITE
PL PROPERTY LINE
PPT PRESERVATIVE PRESSURE TREATED
PR PAIR
PSF PER SQUARE FOOT
RD ROOF DRAIN
SF SQUARE FOOT
SIM SIMILAR
SPEC SPECIFICATIONS

SPEC SPECIFICATIONS
TYP TYPICAL
UL UNDERWRITER'S LABORATORIES
UON UNLESS OTHERWISE NOTED
VERT VERTICAL
VIF VERIFY IN FIELD
W/ WITH
W/O WITHOUT

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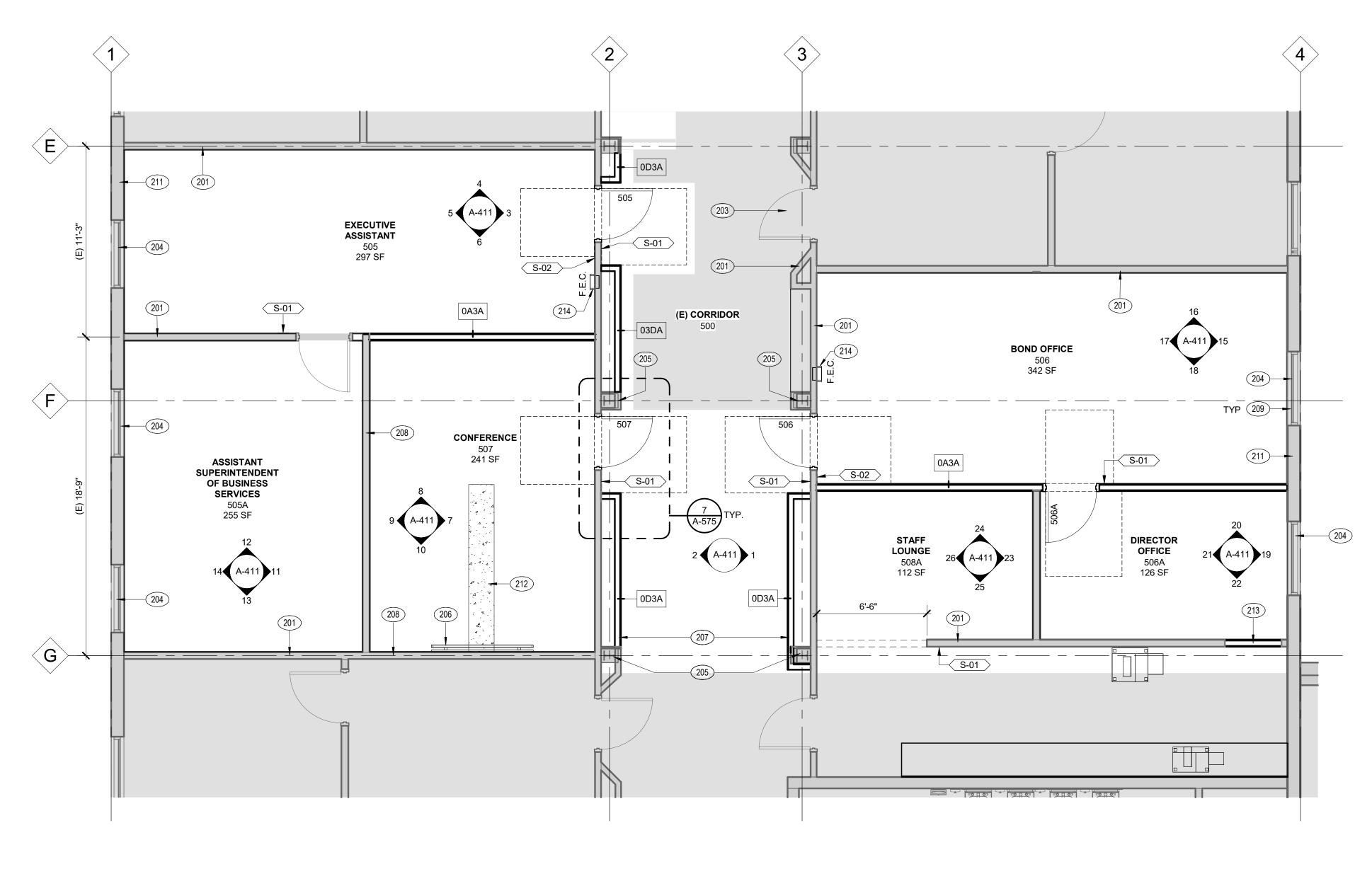
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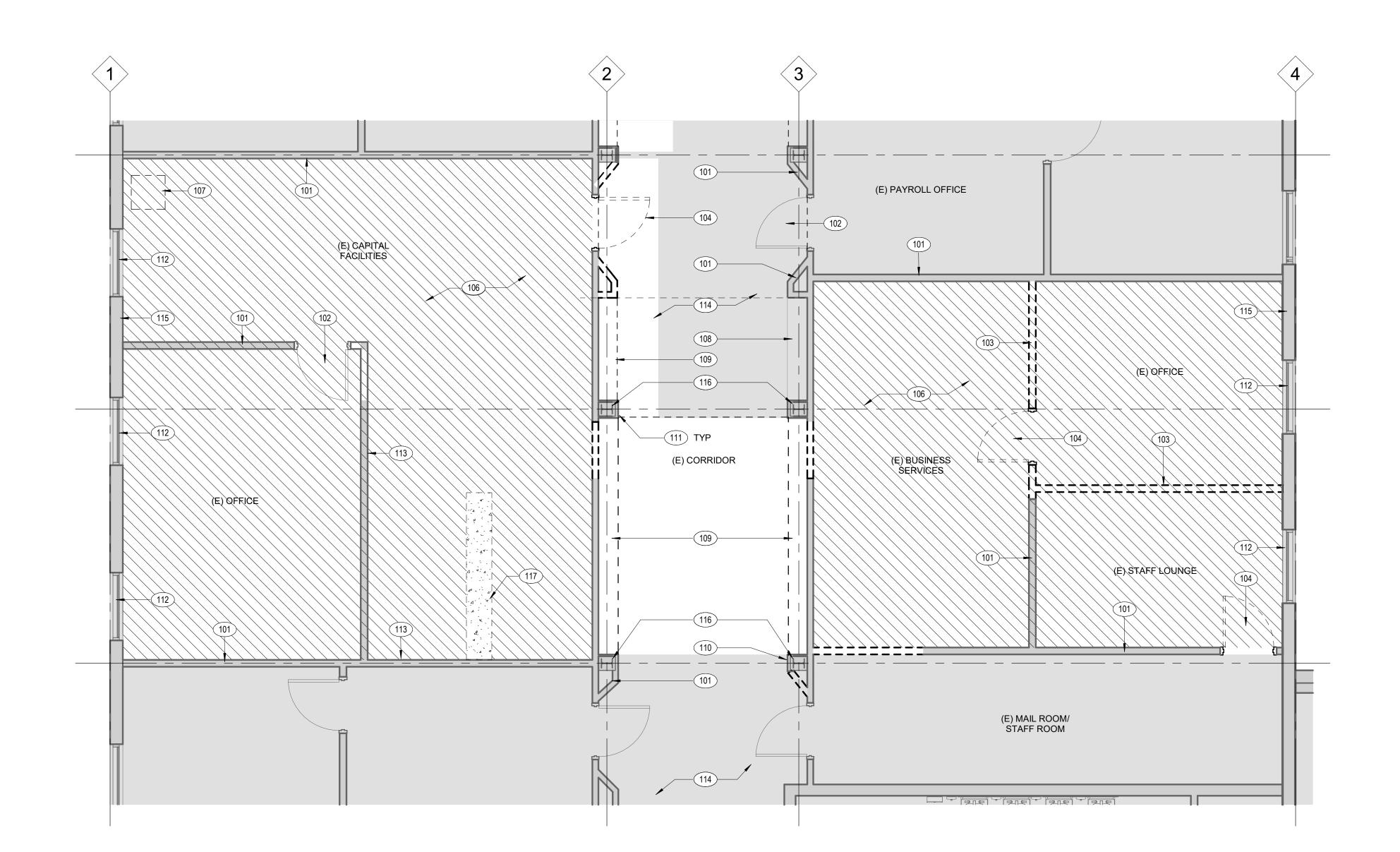


2023-SR001-002

Architectural General Notes & Abbreviations









DEMOLITION PLAN NOTES

- 1. THE ARCHITECT HAS NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL, OR DISPOSAL OF, OR EXPOSURE OF PERSONS TO, HAZARDOUS MATERIALS OR TOXIC SUBSTANCES IN ANY FORM AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO, ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB), LEAD PAINT OR OTHER TOXIC SUBSTANCES. THE FACT THAT THESE DOCUMENTS DO NOT INDICATE THE PRESENCE OF OR REMOVAL OR CONTAINMENT OF THE FOREGOING IS NOT INTENDED TO INDICATE THAT THESE MATERIALS OR SUBSTANCES, AMONG OTHERS, ARE NOT PRESENT AND ARE NOT REQUIRED TO BE REMOVED OR CONTAINED IN COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.
- 2. PORTIONS OF THE BUILDING IMMEDIATELY ADJACENT TO THE PROJECT AREA WILL BE OCCUPIED DURING SELECTIVE DEMOLITION. WORK SHALL NOT DISTURB NORMAL OPERATIONS ADJACENT TO AREAS IDENTIFIED FOR SELECTIVE DEMOLITION WITHOUT THE EXPRESS CONSENT OF PARTIES AFFECTED. DISTURBANCE MAY INCLUDE, WITHOUT LIMITATION, DUST, DIRT, DEBRIS, NOISE, ODORS, ETC.
- 3. CONDUCT WORK IN MANNER THAT WILL MINIMIZE NEED FOR DISRUPTION OF NORMAL OPERATIONS. PROVIDE MINIMUM 72 HOURS ADVANCE NOTICE OF DEMOLITION ACTIVITIES DISRUPTING OPERATIONS IN AREAS AROUND THE WORK, INCLUDING ON LEVELS ABOVE OR BELOW AS APPLICABLE.
- 4. PROVIDE TEMPORARY BARRICADES AND OTHER FORMS OF PROTECTION TO PROTECT STAFF PERSONNEL AND GENERAL PUBLIC FROM INJURY DURING SELECTIVE DEMOLITION WORK.
- 5. CONTRACTOR SHALL VERIFY EXISTING BUILDING DIMENSIONS, PARTITION AND WALL LOCATIONS AND FLOOR ELEVATIONS IN FIELD AND NOTIFY THE

ARCHITECT OF DISCREPANCIES PRIOR TO START OF WORK.

- 6. CONTRACTOR TO DOCUMENT EXISTING CONDITIONS PRIOR TO START OF WORK USING PHOTOGRAPHS, VIDEOS, OR OTHER MEANS WHICH CAN BE READILY SHARED. SUCH DOCUMENTATION WILL BE MADE AVAILABLE TO ARCHITECT AS REQUIRED BELOW.
- PROTECT FROM DAMAGE EXISTING FINISH WORK THAT IS TO REMAIN IN PLACE AND IS EXPOSED DURING DEMOLITION OPERATIONS. RESTORE ANY DAMAGED FINISHES TO CONDITION PRIOR TO START OF WORK.
- 8. PROTECT FLOORS WITH SUITABLE COVERING WHEN NECESSARY.
- 9. COVER AND PROTECT FURNITURE, EQUIPMENT, AND FIXTURES FROM SOILING OR DAMAGE WHEN DEMOLITION WORK IS PERFORMED IN AREAS WHERE SUCH ITEMS HAVE NOT BEEN REMOVED. RESTORE ANY SUCH ELEMENTS THAT ARE DAMAGED TO CONDITION PRIOR TO DEMOLITION WORK.
- 10. PRIOR TO CUTTING EXISTING CONSTRUCTION, LOCATE AND VISIBLY MARK SERVICES TO REMAIN IN OPERATION, INCLUDING FLOOR PENETRATIONS, UNDOCUMENTED CONDITIONS, UTILITY RISERS, ETC., AND WALLS THAT CONTAIN VERTICAL RISERS THAT REMAIN IN OPERATION DURING THE DEMOLITION WORK.
- 11. IF UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH INTENDED FUNCTION OF DESIGN ARE ENCOUNTERED, INVESTIGATE, MEASURE AND DOCUMENT NATURE AND EXTENT OF CONFLICT AND NOTIFY ARCHITECT BEFORE PROCEEDING.
- 12. MAINTAIN EXISTING UTILITIES INDICATED TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING DEMOLITION OPERATIONS. DO NOT INTERRUPT UTILITIES SERVING FUNCTIONING FACILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES ACCEPTABLE TO GOVERNING AUTHORITIES DURING INTERRUPTIONS TO EXISTING UTILITIES.
- 13. WHERE DEMOLITION IS REQUIRED BEYOND THE LIMITS OF THE CONTRACT TO ROUTE NEW DUCTWORK, PIPING, CONDUITS ETC., RATED WALLS AND SMOKE BARRIERS SHALL BE PATCHED BY CONTRACTOR MAKING PENETRATIONS. ALL FINISHES DAMAGED BY THE WORK SHALL BE RESTORED TO THEIR CONDITION PRIOR TO START OF WORK.
- 14. REPAIR DEMOLITION IN EXCESS OF THAT REQUIRED. RETURN ELEMENTS OF CONSTRUCTION AND SURFACES TO REMAIN TO CONDITION PRIOR TO START OF OPERATIONS. REPAIR ADJACENT CONSTRUCTION OR SURFACES SOILED OR DAMAGED BY SELECTIVE DEMOLITION.
- 15. PROVIDE SHORING, BRACING OR OTHER MEANS REQUIRED TO PROTECT AND MAINTAIN THE SAFETY, INTEGRITY AND STABILITY OF EXISTING AND NEW CONSTRUCTION. WHEN REQUIRED, DESIGN OF THESE MEANS AND METHODS SHALL BE BY A LICENSED PROFESSIONAL ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
- 16. IF ROOFING, GLAZING, FLASHING, COPING OR PORTIONS OF EXTERIOR WALLS ARE REMOVED OR OPENED, SUITABLE THERMAL AND/OR MOISTURE OR VAPOR PROTECTION SHALL BE PROVIDED AND MAINTAINED FOR THE DURATION SUCH ELEMENTS OR PORTIONS OF THE BUILDING ARE OPEN TO WEATHER.
- 17. ERECT AND MAINTAIN 1 HOUR FIRE RESISTANCE RATED TEMPORARY PARTITIONS WHERE REQUIRED OR AS DIRECTED BY THE AHJ TO PROTECT EXISTING CONSTRUCTION AND ADJACENT OPERATIONS.
- 18. REMOVAL OF ITEMS NOTED INCLUDES REMOVAL OF ASSOCIATED ANCHORS, ADHESIVES, HARDWARE, CONDUIT, WIRE, PIPING, FASTENERS, BRACKETS, SUPPORTS, ETC. TO BARE EXISTING STRUCTURE.
- 19. NEW CEILING INSTALLATIONS ARE NOT TO REUSE COMPONENTS OF OLD OR REMOVED CEILING SYSTEMS. WHERE EXISTING CEILINGS ARE INDICATED TO BE DEMOLISHED, COMPLETELY REMOVE EXISTING CEILING AND SUSPENSION SYSTEM COMPONENTS, INCLUDING BRACKETS, SUPPORT WIRES, SPLAY WIRES, COMPRESSION STRUTS, AND ATTACHMENTS TO STRUCTURE.
- 20. SCOPE OF DEMOLITION WORK REQUIRED IS NOT NECESSARILY LIMITED TO WHAT IS SHOWN ON THE DEMOLITION PLANS. THE INTENT IS TO REMOVE ALL MECHANICAL, ELECTRICAL AND ARCHITECTURAL ITEMS AS REQUIRED TO FACILITATE NEW CONSTRUCTION. SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DEMOLITION DRAWINGS FOR ADDITIONAL SCOPE OF DEMOLITION
- 21. REFER TO FINISH PLANS/SCHEDULES FOR SELECTIVE DEMOLITION OF EXISTING FINISHES THAT MAY BE REQUIRED IN AREAS NOT INDICATED ON THESE
- 22. SELECTIVE LIMITED DEMOLITION OF CEILINGS ON LEVEL BELOW (NOT SHOWN)
 MAY BE REQUIRED TO ACCOMMODATE INSTALLATION OF NEW STRUCTURAL,
 MECHANICAL, PLUMBING OR ELECTRICAL WORK. RESTORE CEILINGS TO
- CONDITION PRIOR TO DEMOLITION.

 23. REMOVE WALL COVERING AND BASE AT EXISTING WALLS SCHEDULED TO RECEIVE NEW FINISHES. PREP WALL TO RECEIVE SCHEDULED FINISH. REFER TO FINISH PLANS/SCHEDULES FOR EXTENT OF DEMOLITION.
- 24. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

FLOOR PLAN KEYNOTE LEGEND

201	(E) WALL
203	(E) DOOR
204	(E) WINDOW
205	(E) STEEL COLUMN ENCASED IN CONCRETE
206	WALL MOUNTED DISPLAY AND WALL MOUNT OFCI. PROVIDE BLOCKING PER 18/A-572
207	ALIGN NEW FINISH WITH FACE OF EXISTING COLUMN SUROUND.
208	INSTALL ACOUSTIC BATT INSULATION WITHIN EXISTING WALL FRAMING. FINISH FACE WITH 5/8" GYP BOARD TO MATCH ADJACENT.
209	MANUALLY OPERATED ROLLER SHADES AT ALL EXTERIOR WINDOWS, TYP. SEE 13/A-574
210	(E) BUILT-IN LOCKERS
211	(E) CONCRETE WALL
212	PATCH AND REPAIR FLOOR SLAB FOR NEW FLOOR BOX SEE DETAIL 10/A-575
213	DOOR INFILL WALL TO MATCH EXISTING SEE DETAIL 11/A-575
214	(N) SEMI RECESSED FIRE HYDRANT TO EXTEND NO FURTHER THAN 4" BEYOND THE WALL SURFCE

DEMOLITION KEYNOTE LEGEND

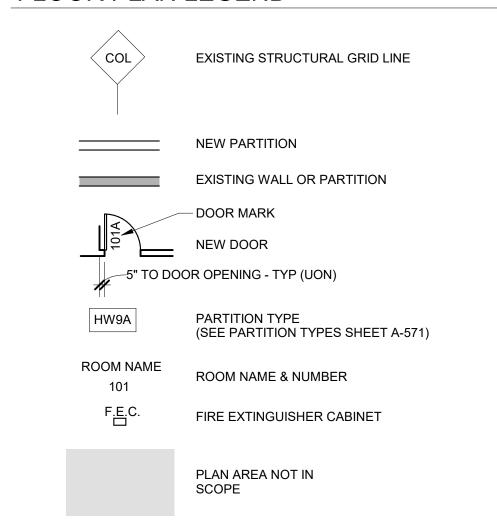
_	DEMOCITION NETWOIL LEGEND
101	(E) WALL TO REMAIN
102	(E) DOOR TO REMAIN
103	DEMOLISH WALL AS SHOWN
104	REMOVE DOOR AND FRAME
106	REMOVE ALL FLOORING AND WALL BASE. CLEAN AND PREPARE CONCRETE SLAB TO RECEIVE NEW FINISH.
107	MECHANICAL UNIT TO BE REMOVED AS PART OF SEPARATE PHASE. ENSURE ALL FLOOR ANCHORS ARE REMOVED AND SUBFLOOR IS PATCHED AND REPAIRED IN PREPARATION FOR NEW FLOORING
108	(E) BUILT-IN LOCKERS TO REMAIN
109	PORTION OF BUILT-IN LOCKERS TO BE REMOVED. DEMOLISH PLATFORM AND LOW WALL BELOW.
110	PROTECT PORTION OF (E) WALL TILE TO REMAIN
111	PROTECT COLUMN SURROUNDS AND FINISH COVER PLATES
112	(E) WINDOW TO REMAIN
113	REMOVE GYP BOARD ON ONE SIDE OF EXISTING WALL IN PREPARATION FOR ACOUSTIC BATT INSULATION. SEE FLOOF PLAN.
114	(E) FLOORING TO REMAIN. PROTECT IN PLACE.
115	(E) CONCRETE WALL TO REMAIN
116	(E) STEEL COLUMN ENCASED IN CONCRETE TO REMAIN.
117	REMOVE EXISTING FLOOR SLAB AS REQUIRED FOR NEW FLOOR BOX AND CONDUIT.

FLOOR PLAN NOTES

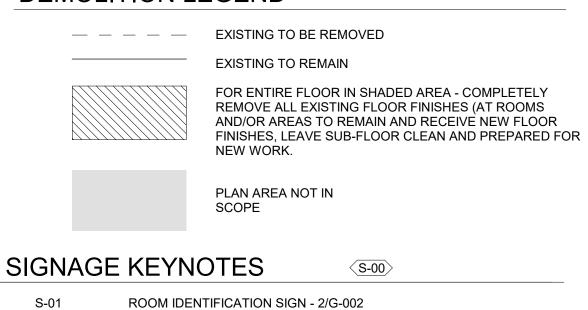
- 1. CONTRACTOR TO COORDINATE AND PROVIDE BACKING FOR ALL ITEMS IN CONTRACT, AS WELL AS ITEMS NOTED WHICH ARE IDENTIFIED AS NOT IN CONTRACT (NIC) OR ITEMS WHICH ARE OWNER-PROVIDED OR VENDOR-PROVIDED. SUCH ITEMS MAY INCLUDE, BUT ARE NOT LIMITED TO, SIGNAGE, VISUAL BOARD UNITS, CONFERENCING TRAYS, RAILS OR OTHER ACCESSORIES, BULLETIN BOARDS, DISPLAY CASES, COMPUTER OR TELEVISION DISPLAYS, MONITORS, SECURITY CAMERAS, WIRELESS ACCESS POINTS, LOCKERS, AND OTHER CASEWORK OR EQUIPMENT.
- 2. DO NOT SCALE DRAWINGS. USE DIMENSIONS INDICATED.
- 3. CONTRACTOR SHALL VERIFY BUILDING DIMENSIONS, PARTITION AND WALL LOCATIONS, AND FLOOR ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO START OF WORK.
- 4. ALL EXISTING CONSTRUCTION REMAINING BUT AFFECTED BY THE WORK UNDER THIS CONTRACT SHALL BE RESTORED AND REFINISHED TO MATCH THE MATERIALS, FINISH AND ALIGNMENT OF THE EXISTING ADJACENT CONSTRUCTION.
- 5. COORDINATE QUANTITY, SIZE AND LOCATION OF ALL FLOOR, ROOF AND WALL OPENINGS FOR MECHANICAL AND ELECTRICAL WORK FOR A COMPLETE INSTALLATION. PROVIDE OPENINGS SHOWN OR REQUIRED FOR COMPLETION OF WORK.
- 6. COORDINATE SIZE AND LOCATION OF ALL ACCESS PANELS WITH APPROPRIATE TRADES.
- 7. ALL DIMENSIONS ARE TO FACE OF GYPSUM BOARD, NOMINAL FINISH FACE OF CONCRETE, OR NOMINAL FACE OF MASONRY UNLESS OTHERWISE NOTED.
- 8. DIMENSIONS IN ROOMS WITH WALL TILE ARE TO FACE OF TILE SURFACE TYPICAL, UNLESS OTHERWISE NOTED, WITH THICKNESS OF TILE AND SETTING BED BEING IDENTIFIED NOMINALLY AS ½". IF TILE AND SETTING BED IS THICKER THAN ½", PARTITION LAYOUT TO BE ADJUSTED ACCORDINGLY.
- 9. WHERE FIRE RATED PARTITIONS TERMINATE AT EXTERIOR WALLS, PROVIDE FIRE SAFING (UL LISTED) INSULATION FROM END OF PARTITION TO INTERIOR FACE OF EXTERIOR SHEATHING, 5" DEPTH X FULL HEIGHT OF CONSTRUCTION
- 10. WHERE SOUND INSULATED PARTITIONS TERMINATE AT EXTERIOR WALL ASSEMBLIES, EXTEND GYPSUM BOARD, ISOLATION CHANNELS, AND SOUND ATTENUATING INSULATION AS SCHEDULED, TO INSIDE FACE OF EXTERIOR SHEATHING, AND SEAL JOINT AT SHEATHING WITH ACOUSTICAL SEALANT.
- 11. FOR ADDITIONAL INTERIOR FINISHES WHICH MAY IMPACT DIMENSIONS, REFER TO FINISH PLANS/SCHEDULES.
- 12. WHERE INTERIOR PARTITIONS ABUT WINDOW SYSTEMS, ALIGN CENTERLINES
 OF PARTITIONS WITH CENTERLINES OF VERTICAL WINDOW MULLIONS, UNLESS
- 13. PROVIDE CONTINUOUS FIRE RATED CONSTRUCTION BEHIND RECESSED FIXTURES IN FIRE PARTITIONS, FIRE BARRIERS AND FIRE WALLS.
- 14. PROVIDE FIREPROOFING CONTINUITY WITH EXISTING CONDITIONS, USING LIKE SYSTEMS AS EXISTING, WHERE REQUIRED. VERIFY CONSTRUCTION OF EXISTING ELEMENTS IDENTIFIED AS FIRE RATED AND REPORT CONDITIONS NEGATIVELY IMPACTING RATING OF ELEMENT TO ARCHITECT.
- 15. PATCH AND REPAIR EXISTING PARTITIONS AT REMOVED RECESSED ITEMS AND AT NEW DOOR OPENINGS. CUT BACK EXISTING GYPSUM BOARD TO NEXT STUD. JOINT BETWEEN NEW AND EXISTING GYPSUM BOARD SHALL BE SECURED TO A COMMON OR SISTERED STUD.
- 16. PATCH AND REPAIR EXISTING CONCRETE SLAB AND/OR DECK AT REMOVED FLOOR DRAINS, WATER CLOSETS, DUCT PENETRATIONS AND OTHER REMOVED UTILITIES. PROVIDE CONCRETE IN THICKNESS REQUIRED TO MAINTAIN FIRE RATING OF FLOOR SLAB. REFER TO STRUCTURAL DRAWINGS FOR REQUIRED REINFORCEMENT OR ANCHORING. REPAIR OR INSTALL FIREPROOFING UNDER SLAB AS REQUIRED TO MATCH EXISTING CONSTRUCTION OR AS REQUIRED BY AH.I
- 17. LEVEL AND SCARIFY EXISTING SLABS TO PROVIDE ACCEPTABLE SUBSTRATE FOR SCHEDULED FLOORING. REFER TO FINISH PLANS/SCHEDULES AND SPECIFICATIONS FOR PREPARATION OF FLOORS TO RECEIVE NEW FINISHES.

FLOOR PLAN LEGEND

OTHERWISE NOTED.

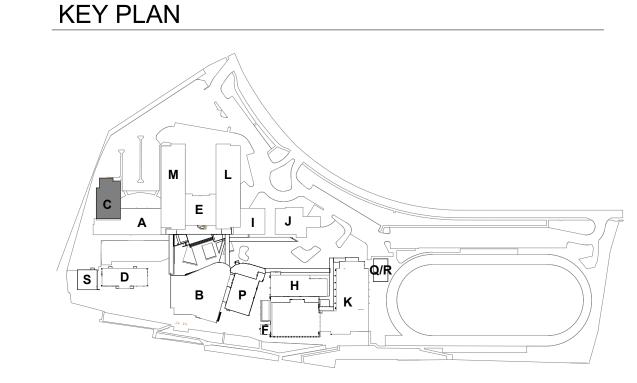


DEMOLITION LEGEND



EXIT SIGN 4/G-002

NOTE: SEE G-002 FOR TYP SIGNAGE MOUNTING HEIGHT



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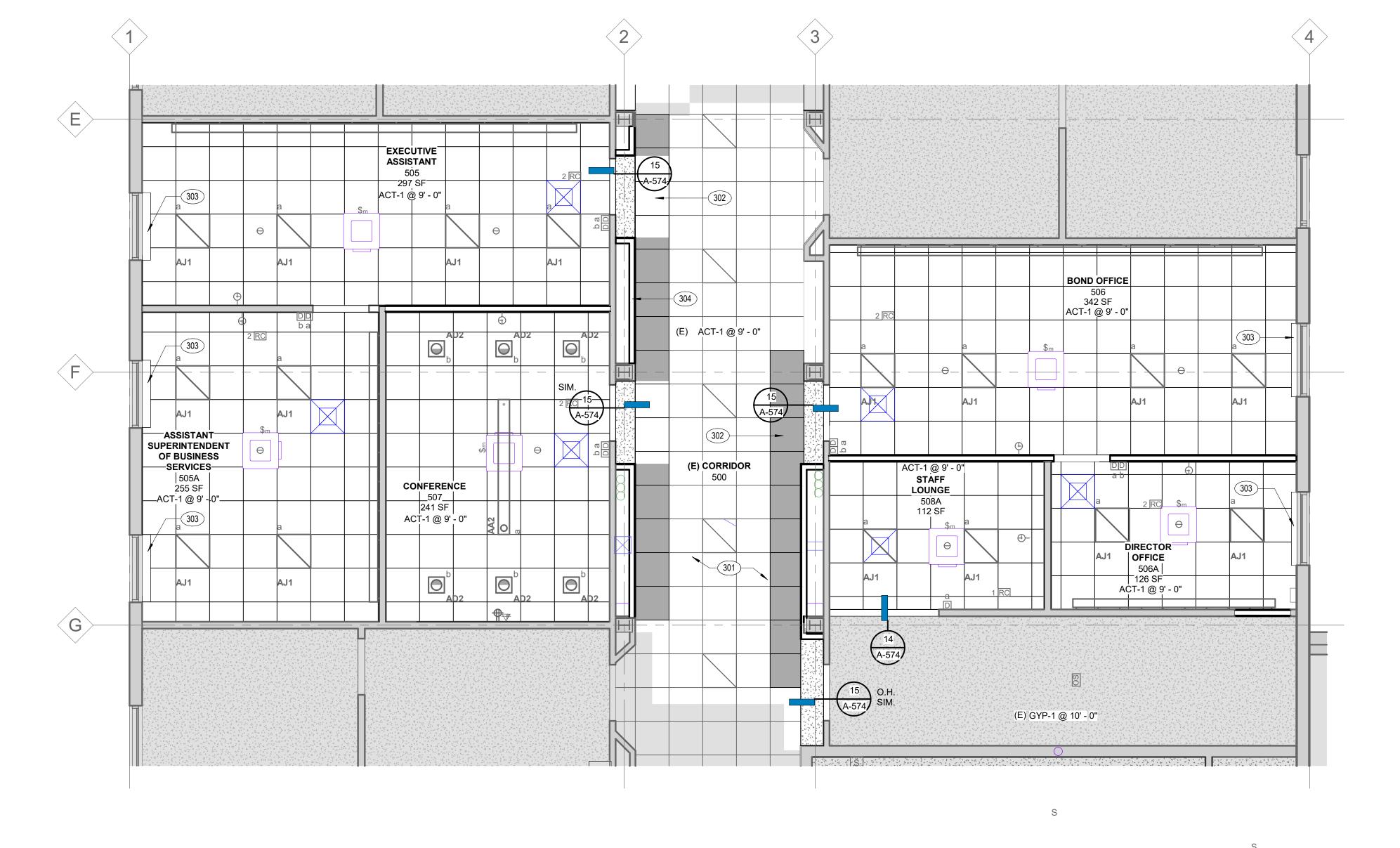
SRCS District

Suite 400 San Francisco, California 94104 USA (415) 981-2345 WWW.HED.DESIGN

417 Montgomery Street

2023-SR001-002

Demo & Floor



(E) PAYROLL OFFICE

SERVICES

(E) STAFF LOUNGE

(E) MAIL ROOM/ STAFF ROOM

CEILING PLAN KEYNOTE LEGEND

(E) CORRIDOR DROPPED CEILING TO REMAIN INFILL 2X2 ACOUSTIC CEILING NEAR DOOR TO MATCH AND ALIGN WITH EXISTING ADJACENT (E) MANUAL ROLLER SHADES AT ALL EXTERIOR WINDOWS PROTECT IN PLACE, TYP. (E) BUILT-IN LOCKERS TO REMAIN

CEILING PLAN DEMOLITION KEYNOTE...

(E) CORRIDOR DROPPED CEILING TO REMAIN.

(E) BUILT-IN LOCKERS TO REMAIN

REMOVED.

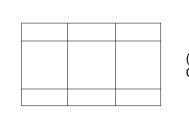
REMOVE ALL EXISTING CEILINGS, SUPPORTS & LIGHTS ABOVE. SEE DEMOLITION LEGEND FOR ADDITIONAL NOTES.

DEMOLISH SOFFIT ABOVE PORTION OF LOCKERS TO BE

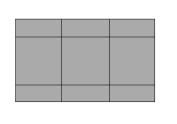
CEILING NOTES

- 1. COORDINATE SIZE AND LOCATION OF ACCESS PANELS WITH TRADE REQUIRING SAME AND CONFIRM WITH ARCHITECT.
- 2. COORDINATE CEILING SUSPENSION SYSTEMS WITH OTHER CEILING SPACE EQUIPMENT SUPPORTING DEVICES.
- 3. CONTRACTOR SHALL MAINTAIN THE FIRE RATING INTEGRITY OF EXISTING PARTITIONS INDICATED AS FIRE RESISTANCE RATED. REPORT CONDITIONS
- NEGATIVELY IMPACTING RATING OF ELEMENT TO ARCHITECT. 4. CEILING PANELS TO BE CENTERED IN ROOM IN BOTH DIRECTIONS UNLESS
- OTHERWISE INDICATED.
- 5. NO CEILING PANEL TO BE CUT TO LESS THAN 6" WIDTH. 6. SPRINKLER HEADS TO BE LOCATED IN THE CENTER OF CEILING PANELS
- VERIFY LOCATIONS OF SOFFIT AND CEILING CONTROL JOINTS WITH THE ARCHITECT PRIOR TO INSTALLATION.
- 8. COORDINATE ESCUTCHEON PLATES AT CEILING PANEL PENETRATIONS WITH ELECTRICAL AND MECHANICAL TRADES. 9. REFER TO ELECTRICAL DRAWINGS FOR FIXTURE TYPES.

CEILING PLAN LEGEND



(ACT-1) 24" X 24" ACOUSTIC PANEL CEILING ON MÉTAL CEILING SUSPENSION SYSTEM.



24" X 24" ACOUSTIC PANEL CEILING ON METAL CEILING SUSPENSION SYSTEM TO MATCH (E) CORRIDOR CEILING.



MATCH (E) CORRIDOR CEILING.



LIGHT FIXTURE (REFER ELEC. DWGS)



CEILING CASSETTE AIR HANDLER SEE MECH.

CEILING TYPE & HEIGHT TAG



RETURN AIR DIFFUSER SEE MECH.



PLAN AREA NOT IN SCOPE

CEILING DEMOLITION LEGEND

---- EXISTING TO BE REMOVED EXISTING TO REMAIN

COMPLETELY REMOVE ALL EXISTING CEILINGS UON (EITHER LAY-IN, PLASTER, OR GYP BD INCLUDING ALL CURTAIN, CEILING MOUNTED EQUIPMENT, SUPPORTS, TRACKS ETC)



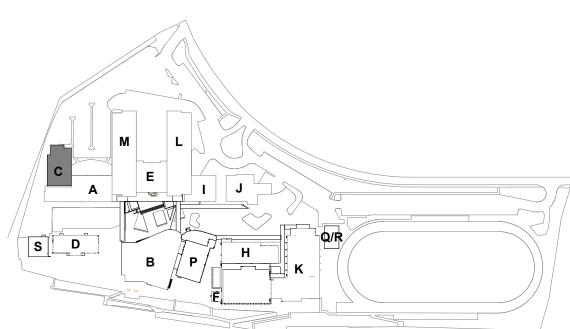
REMOVE EXISTING CEILING GRID IN COORIDOR AS REQUIRED FOR LOCKER REMOVAL & NEW FURRING WALLS FOR DOOR CLEARANCE.



PLAN AREA NOT IN SCOPE

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KEY PLAN



San Rafael City

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SRCS District

Schools

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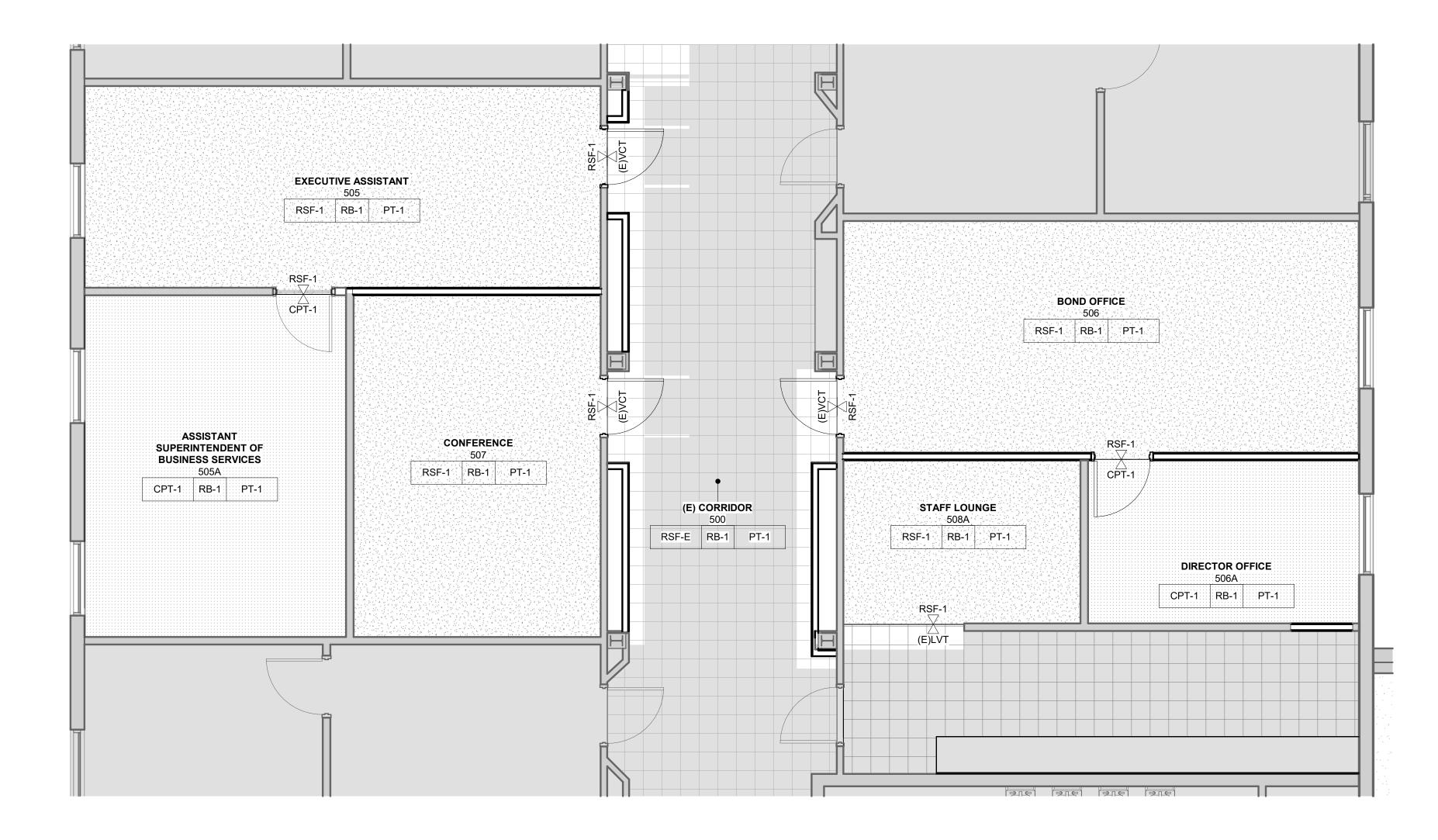
Demo & Reflected Ceiling Plans

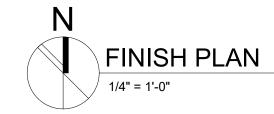
REFLECTED CEILING DEMO PLAN 1/4" = 1'-0"

REFLECTED CEILING PLAN

(E) CAPITAL FACILITIES

/ 1/4" = 1'-0"





FINISH PLAN NOTES

- 1. TRANSITION AND REDUCER STRIPS TO MATCH COLOR OF FLOORING, UNLESS OTHERWISE NOTED.
- 2. TRANSITION FLOOR FINISHES AT CENTER OF DOOR, UNLESS OTHERWISE
- 3. FLOORS TO BE LEVELED AS REQUIRED TO ACCEPT FINISHES PER FINISH PLANS/SCHEDULE.
- INSTALL ALL FLOORING IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. VERIFY LOCATION OF SEAMING AND TRANSITIONS WITH THE ARCHITECT.
- RESILIENT TILE FLOORING TO BE SEALED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 6. RESILIENT BASE TO BE STRAIGHT AT CARPET FLOORING, COVED AT OTHER LOCATIONS.
- 7. RECESSED WIREWAYS, ACCESS PANELS, GRILLES, FIRE EXTINGUISHER CABINETS, ELECTRICAL PANELS, AND OTHER SUCH ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DEVICES SHALL BE FINISHED TO MATCH ADJACENT WALL OR CEILING SURFACE, UNLESS OTHERWISE NOTED.
- 8. FINISH MATERIALS TO COMPLY WITH CODE REQUIRED FLAME SPREAD AND SMOKE DEVELOPED RATINGS.
- MATERIALS USED IN CORRIDORS SHALL CONFORM TO CLASS 1
 REQUIREMENT, FLAME SPREAD RATING 0 TO 25 AND MAXIMUM SMOKE
 DEVELOPED 200 RATING.

FINISH PLAN LEGEND

PLAN AREA NOT IN SCOPE

Room name FLOR BASE WALL WALL FINISH - WALL BASE FINISH -FLOOR FINISH

FLOOR TRANSITIONS, SEE A-585 FOR DETAILS

FLOOR FINISH

CON

(E) VCT

RSF-1

CPT-1

ABBREVIATION

<u>FLOOR</u>

CON - SEALED CONCRETE FLOOR

CPT - CARPET

RSF - RUBBER SHEET FLOORING

VCT - VINYL COMPOSITION TILE

RB - RUBBER BASE

<u>WALL</u>

GYP - GYPSUM BOARD PT - PAINT

MISCELANEOUS

CG - CORNER GUARD WB - WHITEBOARD

San Rafael City Schools 310 Nova Albion Way, San Rafael, CA

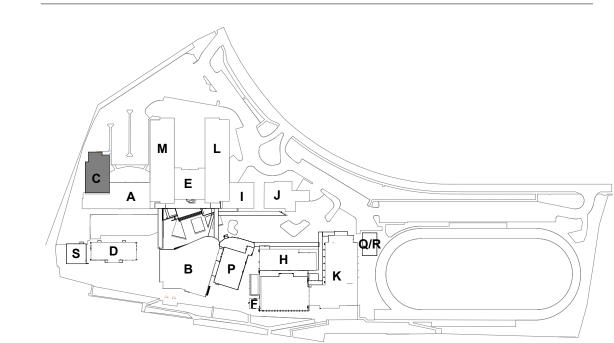
SRCS District Office - Business Services & Capital **Facilities**

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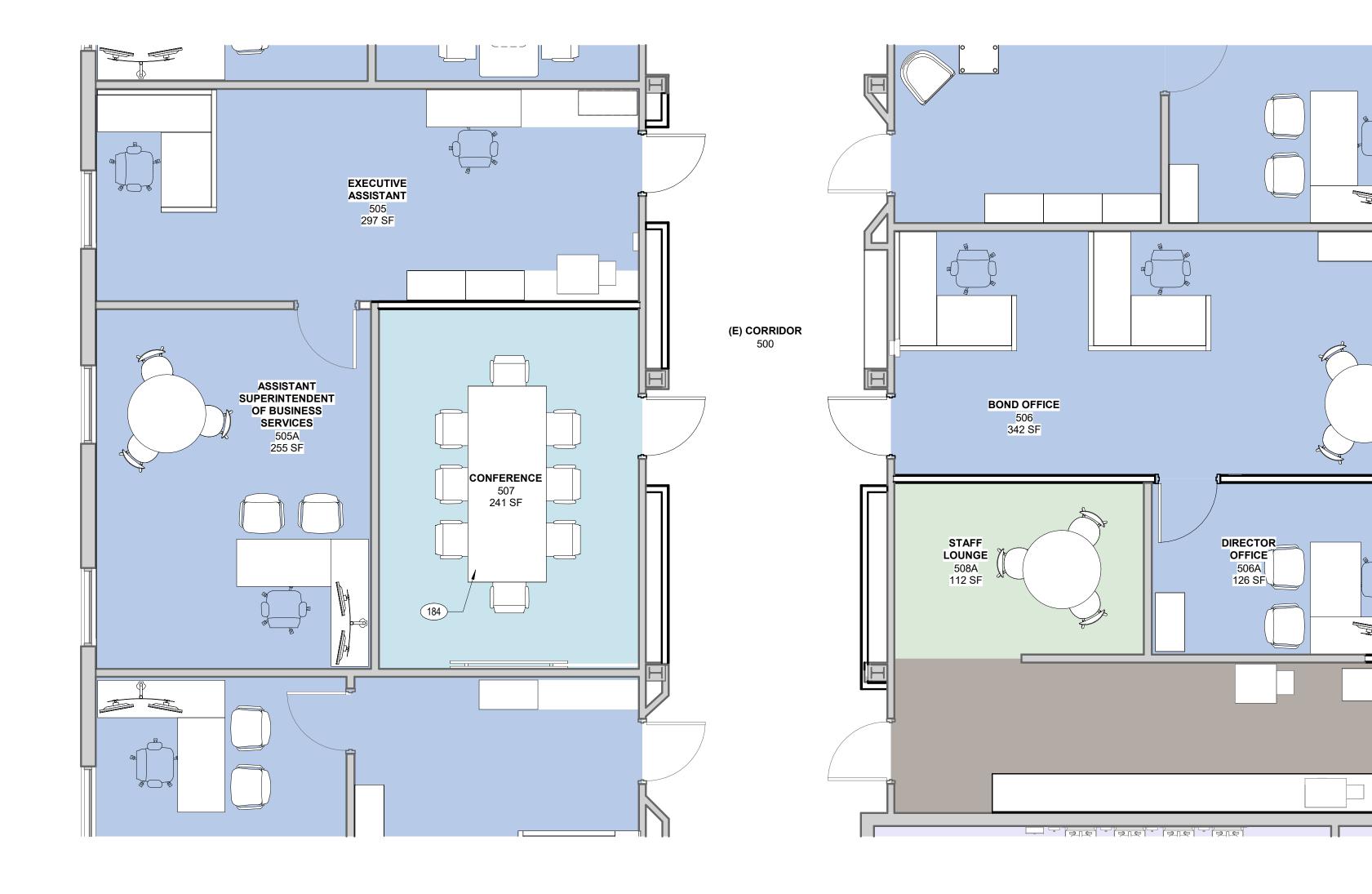


KEY PLAN



2023-SR001-002

Finish Plan



FURNITURE PLAN KEYNOTE LEGEND

Key Value Keynote Text

184 RELOCATED (E) 4'-0" x 10'-0" CONFERENCE TABLE

San Rafael City Schools

SAN RAFAEL
CITY SCHOOLS

310 Nova Albion Way, San Rafael, CA
94903

SRCS District
Office - Business
Services & Capital
Facilities

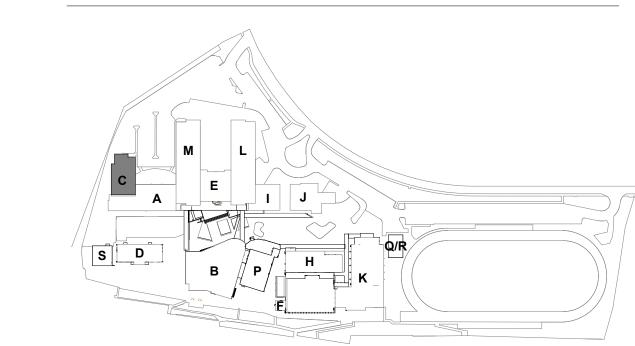
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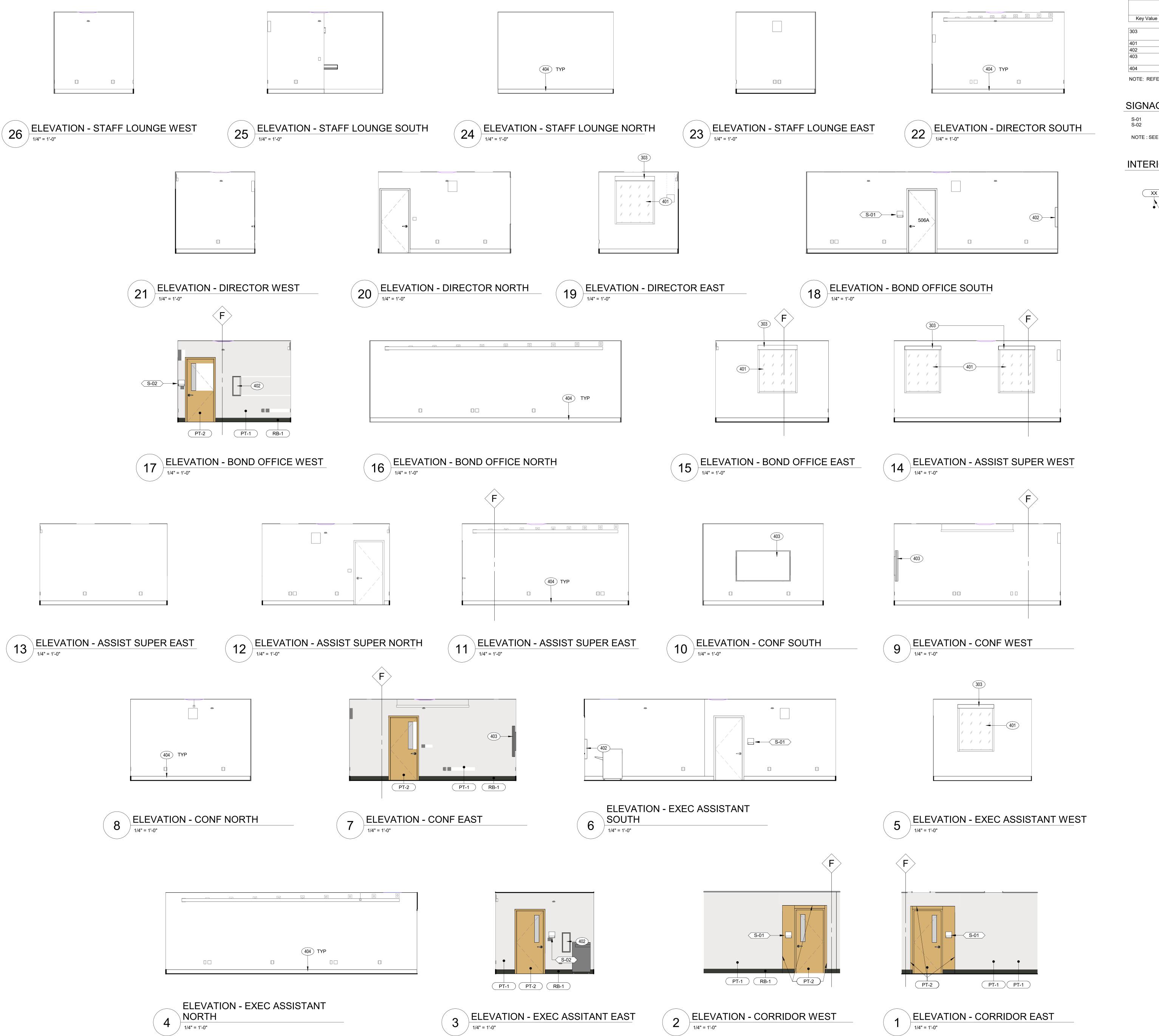
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94104 USA
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KEY PLAN



2023-SR001-002

Furniture Plan



INTERIOR ELEVATION KEYNOTE LEGEND

Key Value Keynote Text

303 (E) MANUAL ROLLER SHADES AT ALL EXTERIOR WINDOWS PROTECT IN PLACE, TYP.

401 (E) WINDOW

402 SEMI-RECESSED FIRE EXTINGUISHER CABINET

403 WALL MOUNTED DISPLAY, OFCI. PROVIDE BACKING PER

18/A-522 AS REQUIRED.

404 RUBBER WALL BASE, SEE 6/A-585

NOTE: REFERENCE DOOR MARK TO DOOR SCHEDULE ON A-601

SIGNAGE KEYNOTES

S-00

S-01 ROOM IDENTIFICATION SIGN - 2/G-002
S-02 EXIT SIGN 4/G-002

NOTE: SEE G-002 FOR TYP SIGNAGE MOUNTING HEIGHT

INTERIOR ELEVATIONS LEGEND

FINISH TAG SEE FINISH MATERIALS LIST ON SHEET A-601

ARROW LEADER INDICATES ADJACENT WALL OR CEILING SURFACE. SURFACE PLAN NOT SHOWN IN ELEVATION SEE PLAN FOR EXTENTS

DOT LEADER INDICATES SURFACE PLANE AS SHOWN IN ELEVATION

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Facilities

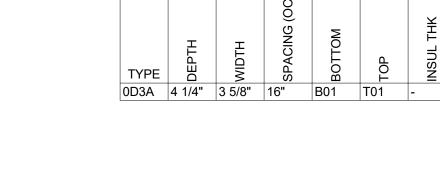
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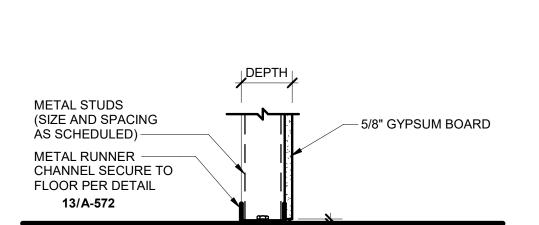
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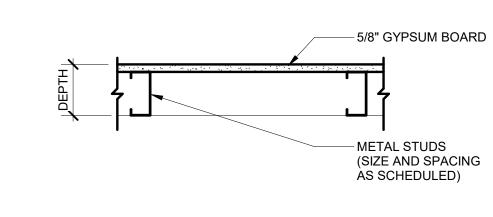
Interior Elevations

UNDERSIDE OF (E) STRUCTURE / METAL DECK — ATTACH CHANNEL TO — ── 3" HIGH LEG METAL DECK PER DETAIL TRACK FASTENED TO SLAB DO NOT FASTEN STUDS OR GYPSUM BOARD TO - CEILING HIGH LEG TRACK (AS SCHEDULED) − 5/8" GYPSUM BOARD METAL STUDS -(SIZE AND SPACING ÀS SCHEDULED) D PARTITION DETAIL D-T01



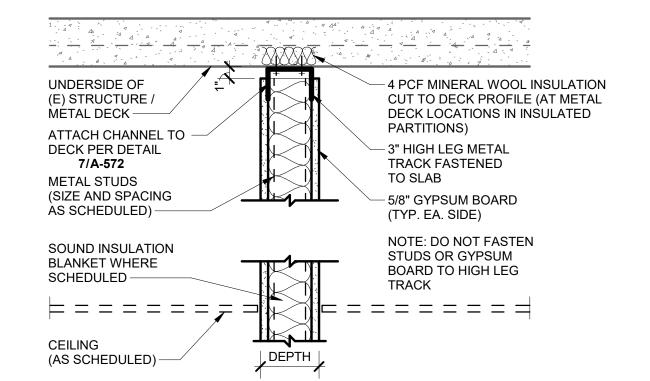


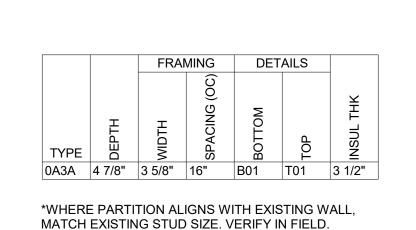
T01 1 1/2" = 1'-0"

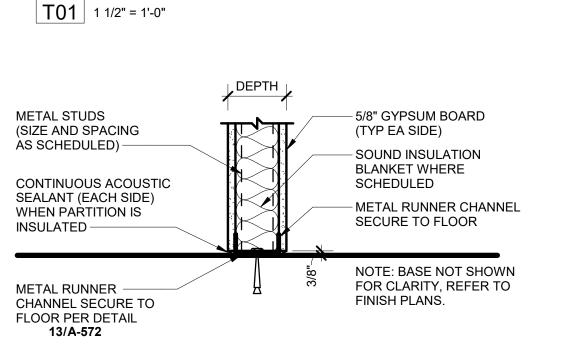








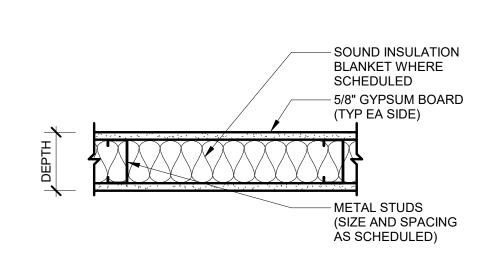




A PARTITION DETAIL A-T01

A PARTITION DETAIL A-B01

B01 1 1/2" = 1'-0"



A PARTITION A

1 1/2" = 1'-0"

PARTITION NOTES

- 1. PROVIDE NON-COMPOSITE METAL FRAMING ASSEMBLIES OF METAL STUD DEPTH AND SPACING AS INDICATED FOR PROJECT SPECIFIC SPANS MEETING AN ALLOWABLE DEFLECTION OF L/240 WITH LATERAL LOAD OF AT LEAST 5 PSF FOR LIMITING HEIGHTS. PROVIDE 20 GA. STUDS (MINIMUM). PROVIDE HEAVIER GAUGE AND/OR WIDER FLANGE WIDTH TO MEET STATED PERFORMANCE REQUIREMENTS FOR LIMITING HEIGHTS. COMPLY WITH METAL FRAMING MANUFACTURER'S REQUIREMENTS FOR BRACING STUD FLANGES AND PROVIDING HORIZONTAL BRIDGING AT 48" O.C. MAXIMUM VERTICAL SPACING.
- 2. TO THE EXTENT POSSIBLE, FIRE RATED WALLS SHALL BE COMPLETELY AND CONTINUOUSLY CONSTRUCTED FIRST (EXCEPT FOR FINAL FINISH), WITH OTHER NON-RATED WALLS CONSTRUCTED TO THEM.
- 3. FIRE RATED WALLS EXTEND FULL HEIGHT TO STRUCTURE ABOVE AND SEAL TO DECK UNLESS DETAILED OTHERWISE.
- 4. USE GALVANIZED CORNER BEADS AND EDGE TRIM IN EXPOSED WORK.
- 5. MOVEMENT CONTROL:
 A. PROVIDE FOR VERTICAL MOVEMENT AT THE HEAD OF CONSTRUCTION AS INDICATED IN THE NOTES ON THE DRAWINGS. CONNECT HEAD RUNNER CHANNEL TO THE UNDERSIDE OF STRUCTURE AS INDICATED ON THE DRAWINGS; CUT STUDS SHORT TO ALLOW FOR VERTICAL MOVEMENT IN
- CHANNEL; FASTEN GYPSUM BOARD TO STUDS ONLY.

 B. ALLOW FOR A MIN OF 1" VERTICAL MOVEMENT FOR PARTITIONS BELOW SLABS, BEAMS OR TRUSSES.

ACCORDANCE WITH NOTE BELOW, AND DO NOT FASTEN TO HEAD RUNNER

- C. ALLOW FOR 3/4" RACKING OF PARTITIONS BUILT NEXT TO VERTICAL
- ELEMENTS (i.e. COLUMNS, WALLS, EXTERIOR WALLS).
- 6. PROVIDE ABUSE RESISTANT GYPSUM BOARD AT STAIR SIDES OF STAIR ENCLOSURE PARTITIONS..
- 7. SOUND CONTROL:
 A. SEAL OPENINGS AT OUTLETS, SWITCHES, MECHANICAL OPENINGS AND PERIMETER CONDITIONS WITH ACOUSTIC SEALANT.
 B. PROVIDE SOUND ATTENUATION BLANKETS WHERE INDICATED.
- 8. PENETRATIONS AT SMOKE AND FIRE RATED ASSEMBLIES SHALL BE PROTECTED, SEALED AND DAMPERED, USING UL OR OTHER AHJ APPROVED METHODS, MATERIALS AND INSTALLATION, AS REQUIRED TO MAINTAIN THE ASSEMBLY'S RATING AND SMOKE RESISTANT REQUIREMENTS. ALL MATERIALS AND INSTALLATION DETAILS SHALL CONFORM TO UL LISTINGS FOR "THROUGH-PENETRATION FIRE STOP SYSTEMS" WHERE APPLICABLE. CONTRACTOR SHALL SUBMIT SHOP DRAWING DETAILS, FURNISHED BY THE MANUFACTURER, OF THE FIRE STOP MATERIAL, THAT SHOW COMPLETE CONFORMANCE TO THE UL LISTING AND SUCH DRAWINGS SHALL BE AVAILABLE TO AHJ INSPECTORS. THE DRAWINGS SHALL BE SPECIFIC FOR EACH PENETRATION TYPE.
- 9. WHERE IDENTIFIED ON DRAWINGS, SMOKE BARRIERS/PARTITIONS SHALL BE CONTINUOUS FROM INSIDE FACE OF SHEATHING OF OUTSIDE WALLS, FROM FIRE BARRIER TO FIRE BARRIER, FROM SMOKE BARRIER TO SMOKE BARRIER AND FROM FLOOR SLAB TO FLOOR OR ROOF SLAB ABOVE, THEREBY PROVIDING CONTINUITY THROUGH ALL CONCEALED SPACES. COMPLETELY SEAL ALL OPENINGS WHERE THE SMOKE BARRIER ABUTS OTHER SMOKE BARRIERS, FIRE BARRIERS, EXTERIOR WALLS, THE FLOOR BELOW AND THE FLOOR OR CEILING ABOVE.
- 10. LIGHT GAUGE METAL FRAMING SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ASTM 754, "STANDARD SPECIFICATIONS FOR INSTALLATION OF STEEL FRAMING MEMBERS".
- 11. WALL TYPES SHOW BASE WALL CONSTRUCTION. BASE, TILE, WOOD PANELING / TRIM, ACOUSTICAL PANELS, ETC. MAY OCCUR AS SCHEDULED OR DETAILED ELSEWHERE.
- 12. AT FULL- HEIGHT PARTITIONS WHERE DUCTWORK OR OTHER OBSTACLES PREVENT EXTENSION OF ALL STUDS TO DECK, FRAME STUDS AROUND OBSTACLES WITH HEADERS AND BRACING AS NECESSARY. PROVIDE DOUBLED STUDS AT ENDS OF OPENINGS TO DECK ABOVE...
- 13. LOCATE VERTICAL CONTROL JOINTS AT 30'-0" 0.C.(MAX.) OR AS SHOWN ON PLANS OR NOTED AS "CJ" ON ELEVATIONS. CONFIRM CONTROL JOINT LOCATIONS WITH ARCHITECT PRIOR TO FRAMING.
- 14. PROVIDE 5/8" CEMENTITIOUS BACKER BOARD AT TILE (REFER TO ROOM FINISH PLANS/SCHEDULES FOR LOCATIONS AND HEIGHT). AT CONTRACTOR'S OPTION, PROVIDE 5/8" FIBERGLASS MAT TILE BACKER BOARD AT PARTITIONS SCHEDULED TO RECEIVE TILE IN NON-WET AREAS. SHOWER AREAS AND AREAS WITH TERRAZZO BASE TO RECEIVE CEMENTITIOUS BACKER BOARD ONLY.
- 15. GYPSUM BOARD FINISH TO BE LEVEL 4 UON.

PARTITION TYPES - NAMING

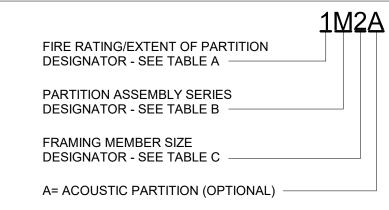


TABLE A - RATING/EXTENT OF PARTITION

<i>.</i>	
DES.	CONDITION
0 1, 2, 3 C U H	NON-RATED, FULL-HEIGHT, BOTTOM 01/TOP 01 RATING IN HOURS, FULL HEIGHT, BOTTOM 02/TOP 02 FINISH 6" ABOVE CEILING, BOTTOM 01/TOP 03 PARTITION UNDER CEILING, BOTTOM 01/TOP 07 PARTIAL HEIGHT PARTITION BOTTOM 10/TOP 10

TABLE B - PARTITION ASSEMBLY SERIES

TYPE	SHEATHING	FRAMING	SHEATHING
Α	1 LAYER	MTL C-STUD	1 LAYER
В	2 LAYERS	MTL C-STUD	2 LAYERS
С	1 LAYER	MTL C-STUD	2 LAYERS
D	1 LAYER	MTL C-STUD	NONE
E	2 LAYERS	MTL C-STUD	NONE
F	1 LAYER	HAT CHANNEL	NONE
G	2 LAYERS	HAT CHANNEL	NONE
H	1 LAYER	MTL C-H STUD	SHAFT LINER
J	2 LAYERS	MTL C-H STUD	SHAFT LINER
K	1 LAYER	2 MTL C-STUD	1 LAYER
L	2 LAYERS	2 MTL C-STUD	2 LAYERS
М	-	CMU	-
N	1 LAYER	WD STUD	1 LAYER
Р	2 LAYERS	WD STUD	2 LAYERS
Q	1 LAYER	WD STUD	2 LAYERS
R	1 LAYER	WD STUD	NONE
S	2 LAYERS	WD STUD	NONE
Т	1 LAYER	WD FURRING	NONE
U	2 LAYERS	WD FURRING	NONE
V	RESERVED FO	OR PROJECT SPE	CIFIC ASSIGNMENT
W	RESERVED FO	OR PROJECT SPE	CIFIC ASSIGNMENT
Х	RESERVED FO	OR PROJECT SPE	CIFIC ASSIGNMENT
Υ	RESERVED FO	OR PROJECT SPE	CIFIC ASSIGNMENT
Z	RESERVED FO	OR PROJECT SPE	CIFIC ASSIGNMENT

TABLE C - FRAMING MEMBER SIZE

DES.	MTL STUD WIDTH	MTL C-H STUD WIDTH (NOM)	WD STUD WIDTH (NOM)	CMU WIDTH (NOM)
-		NO FRAMING		
0	7/8" HAT CH		1"	10"
1	1 1/2" HAT CH			
2	2 1/2"	2 1/2"	2"	12"
3	3 5/8"	-	-	
4	4"	4"	4"	4"
6	6"	6"	6"	6"
8	8"	-	8"	8"

San Rafael City
Schools
SAN RAFAEL
CITY SCHOOL

310 Nova Albion Way, San Rafael, CA 94903

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2023-SR001-002

Partition Types

ASSEMBLY, ETC MOUNT ITEM TO CHANNEL WITH #12 SHEET METAL SCREWS @ 12" OC, UON

TYPE A - METAL STUD WALL

CABINETS, TALL STORAGE CABINETS, SLIDING MARKER BOARD

- METAL STUD FRAMING PER PLAN -FLANGES SHALL NOT BE CUT - 18 GA METAL TRACK BLOCKING - ATTACH TO METAL TRACK CHANNEL FLANGE W/ (3) #10 X 1/2" SHEET METAL SCREWS EACH BAY - MATCH DEPTH OF METAL STUD FRAMING - ATTACH TO METAL STUD FRAMING PER DETAIL 16/A-572 - 6" x 18 GA TRACK CHANNEL - NOTCH AND

> METAL SCREWS - LENGTH AS REQUIRED TO SUPPORT ITEM - MIN (2) SPAN **EQUIPMENT/ACCESSORIES TO BE ANCHORED:** WALL HUNG CABINETS, WALL HUNG EQUIPMENT, GRAB BARS, FUME HOODS, ETC

FASTEN TO STUDS WITH (3) #10 X 1/2" SHEET

FLANGES SHALL NOT BE CUT

MOUNT ITEM TO CHANNEL WITH #12 SHEET METAL SCREWS @ 12" OC, UON

TYPE B - METAL STUD WALL - 18 GA METAL TRACK BLOCKING -*HEIGHT AS REQD FOR ATTACH TO METAL PLATE W/ (3) #10 X PROPER MOUNTING OF 1/2" SHEET METAL SCREWS EACH EQUIPMENT - 18" MIN BAY - MATCH DEPTH OF METAL STUD FRAMING - ATTACH TO METAL STUD FRAMING PER DETAIL 16/A-572 - METAL STUD FRAMING PER PLAN -

> 14 GA CONTINUOUS PLATE -FASTEN TO METAL STUDS WITH (4) # 10 X 1/2" SHEET METAL SCREWS -LENGTH AS REQUIRED TO SUPPORT ITEM - MIN (2) SPAN **EQUIPMENT/ACCESSORIES TO BE ANCHORED:**

MOUNTS, DRINKING FOUNTAINS, ETC MOUNT ITEM TO CHANNEL WITH #12 SHEET METAL @ 12" OC, UON

WALL HUNG LAVATORIES & PLUMBING FIXTURES, TV

TYPE C - METAL STUD WALL

- A34 FRAMING ANCHOR (4) PER BLOCKING - ATTACH TO METAL STUD FRAMING W/ (2) #8 SHEET METAL SCREWS, ATTACH TO WOOD BLOCKING W/ (2) 8d NAILS - ALTERNATE ORIENTATION SO THAT SCREWS DO NOT CONFLICT - 4 X 8 WOOD BLOCKING - LENGTH AS REQUIRED TO SUPPORT ITEM METAL STUD FRAMING PER PLAN FLANGES SHALL NOT BE CUT 18 GA METAL TRACK - ATTACH TO METAL STUD FRAMING W/ #8 SHEET METAL SCREWS @ 6" OC EACH FLANGE

EQUIPMENT/ACCESSORIES TO BE ANCHORED: EXTERIOR WALL HUNG WOOD BENCHES, TV MOUNTS, DRINKING FOUNTAINS, ETC MOUNT ITEM TO CHANNEL WITH #12 SHEET METAL SCREWS

@ 12" OC, UON TYPE D - METAL STUD WALL

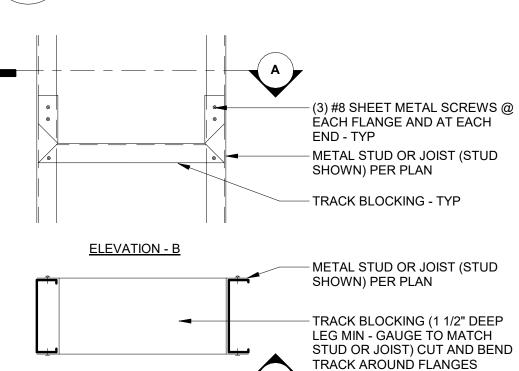
WALL STUD FLANGES ARE CONTINUOUS SEE TYPICAL WALL FRAMING SCHEDULE FOR GAUGE OF STUDS VERIFY LENGTH, HEIGHT, LOCATION AND NUMBER REQUIRED WITH EQUIPMENT AND ACCESSORY MANUFACTURER. 4. CONTRACTOR IS RESPONSIBLE TO INSURE WALL FINISH IS SMOOTH & PLUMB FOR THE ITEM THAT BACKING PLATE IS INTENDED FOR

TYP METAL FRAMING BACKING / 1/2" = 1'-0"

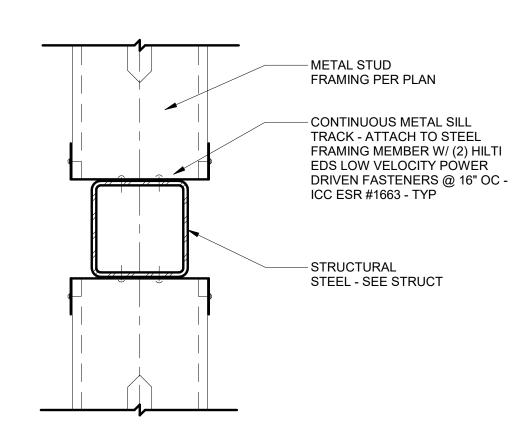
CONDITION <u>ANCHORAGE</u> CONCRETE (2) 3/8" Ø X 2" MIN EMBEDMENT HILTI KWIK BOLT TZ EXPANSION ANCHORS @ 24" OC MAX - ICC ESR 1917 METAL (2) #10 SHEET METAL SCREWS @ 16" OC MAX AT EXTERIOR CONDITION, DEEP LEG TRACK OVER GYP SHEATHING & RIGID INSULATION: (3) #10 SHEET METAL SCREWS @ 16" OC MAX STRUCTURAL STEEL (2) 0.177" Ø X 1 1/4" HILTI EDS LOW VELOCITY POWER DRIVEN FASTENERS @ 24" OC MAX - ICC ESR #1663

NOTE: AT EXTERIOR CONDITION, DEEP LEG TRACK OVER GYP SHEATHING & RIGID INSULATION – WALL – -#12 SHEET METAL SCREWS TOP AND BOTTOM DEEP LEG TRACK - GAUGE TO MATCH JOIST FRAMING TYPICAL ANCHORAGE PER TABLE ABOVE - METAL STUD CEILING JOIST - L 2" X 2" X 3" X 18 GAUGE CLIP ANGLE - ATTACH WITH (3) #8 SHEET METAL SCREWS EACH NOTE: FOR SPANS LESS THAN

TYP METAL FRAMING LEDGER ATTACHMENT / 1 1/2" = 1'-0"



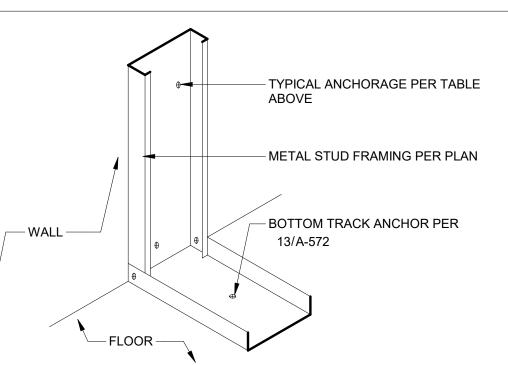
TRACK BLOCKING [/] 1 1/2" = 1'-0"



TYP METAL FRAMING WALL ATTACHMENT TO STRUCTURAL STEEL

CONDITION ANCHORAGE CONCRETE 3/8" Ø X 2" MIN EMBEDMENT HILTI KWIK BOLT TZ EXPANSION ANCHORS @ 24" OC MAX - ICC ESR #1917 METAL (2) #10 SHEET METAL SCREWS @ 16" OC MAX STRUCTURAL STEEL (2) 0.177" Ø X 1 1/4" HILTI EDS LOW VELOCITY POWER DRIVEN FASTENERS @ 24" OC MAX - ICC ESR #1663 (2) 1/4" HILTI KH-EZ SCREW ANCHORS W/ EMBED 1 5/8" @ 24" OC - ICC ESR #3056

[/] 3" = 1'-0"

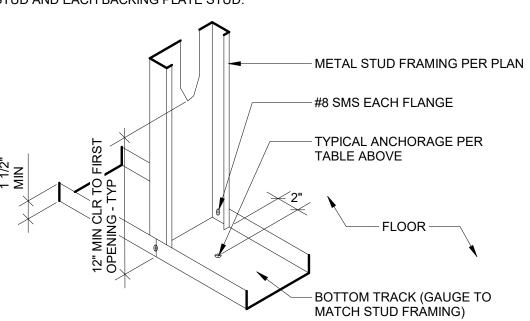


TYP METAL FRAMING WALL ATTACHMENT

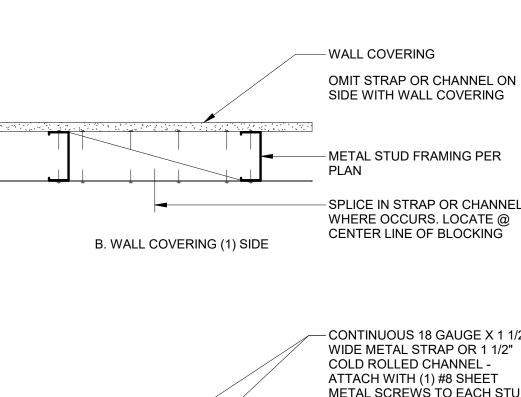
1 1/2" = 1'-0"

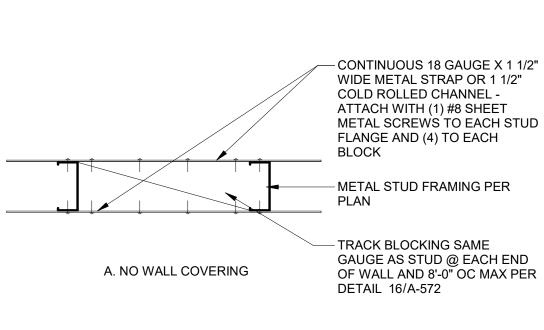
<u>ANCHORAGE</u> CONDITION CONCRETE SLAB METAL TRACK - ATTACH W/ 0.157 SHANK \varnothing X 1 1/2" MIN EMBEDMENT HILTI X-U @ 32" OC MAX W/ STEEL WASHERS - 6" FROM ENDS - ICC ESR #2269 **CONCRETE COMPOSITE** METAL TRACK - ATTACH W/ 0.157 SHANK Ø X 3/4" MIN FLOOR DECK EMBEDMENT HILTI X-U @ 32" OC MAX W/ STEEL WASHERS - 6" FROM ENDS - ICC ESR #2269 CONCRETE CURB SEE STRUCTURAL DRAWINGS

NOTE: PROVIDE ADDITIONAL ANCHORAGE @ EACH SIDE OF JAMB STUD AND EACH BACKING PLATE STUD.

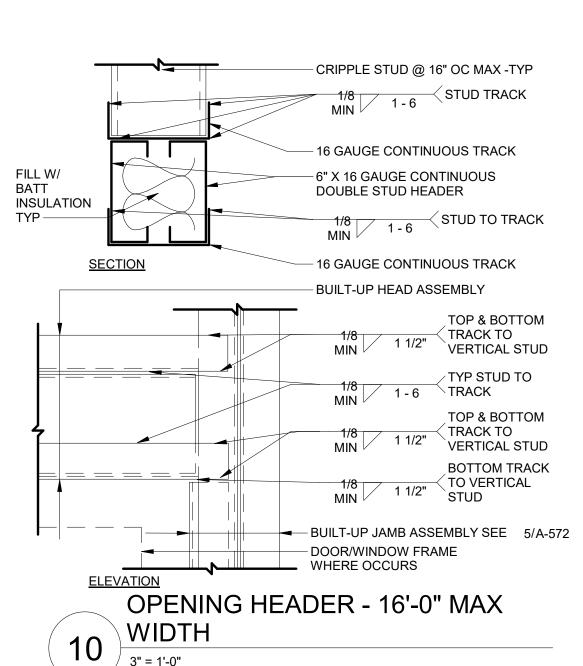


TYP BOTTOM TRACK ATTACHMENT





TYPICAL BRIDGING / 1 1/2" = 1'-0"

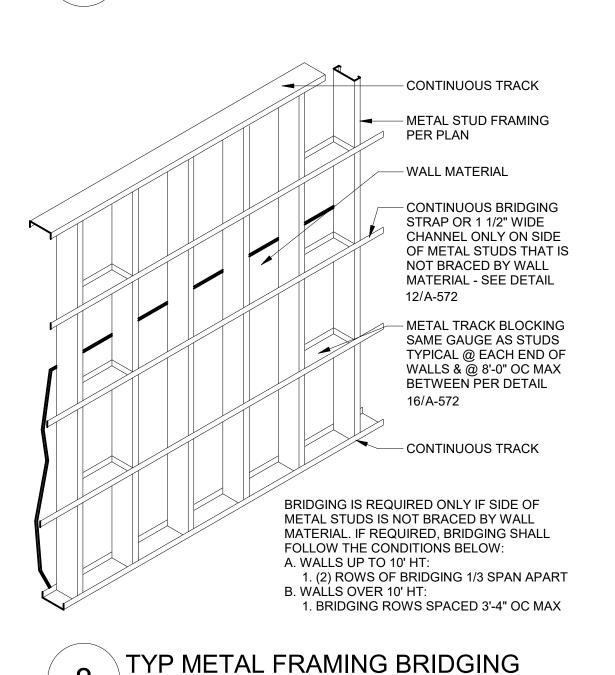


TOP (SLIP TRACK)

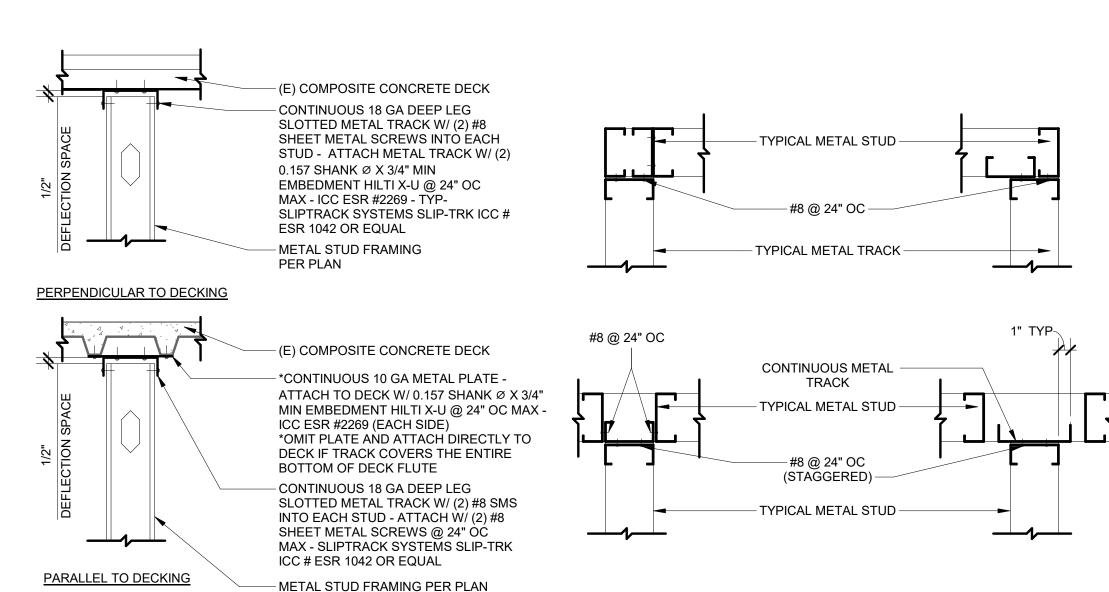
TYPICAL SECTIONS

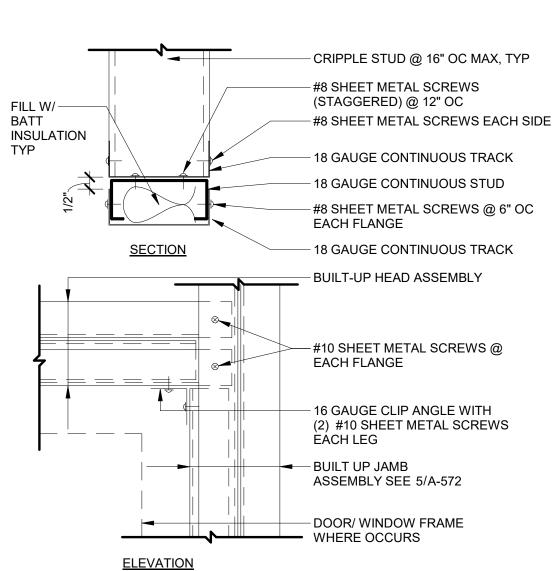
ANCHORAGE @ SPLICE. TYPICAL FOR BOTH TOP AND BOTTOM TRACKS (3) #8 SHEET METAL SCREWS @ EACH FLANGE OF TRACK AND EACH SIDE OF SPLICE- TYP 18 GAUGE STUD BETWEEN VERTICAL STUDS- TYP - METAL STUD FRAMING PER PLAN

TYP METAL FRAMING TRACK SPLICE 1 1/2" = 1'-0"



1/2" = 1'-0"

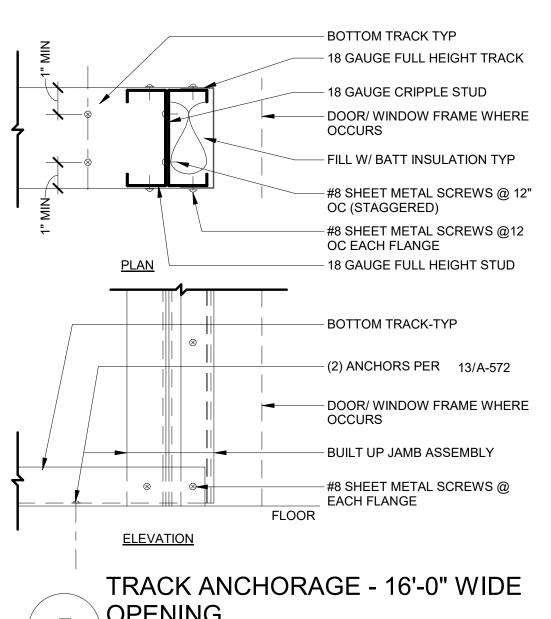




TYP TRACK ATTACHMENT AT DECK

/ 1 1/2" = 1'-0"

OPENING HEADER - 8'-6" MAX WIDTH



OPENING

A-572

BOTTOM

ANCHORAGE

TRACK

TYP

FLOOR ANCHORAGE TYP

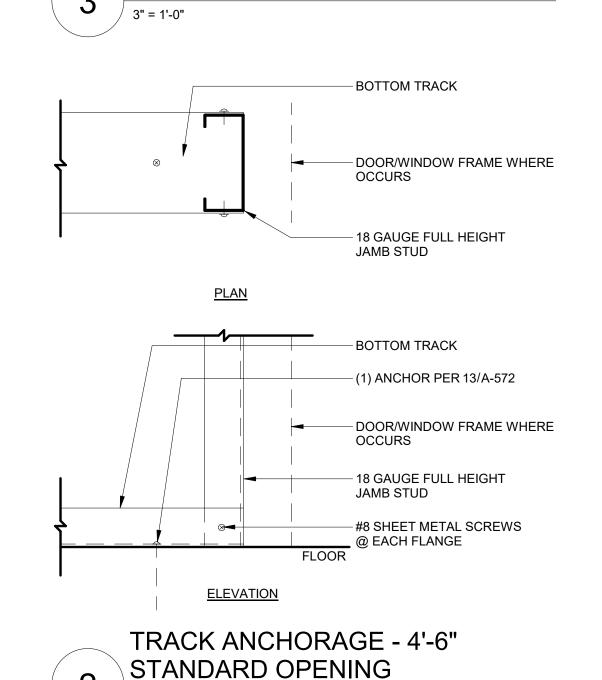
EQUIPMENT ANCHORAGE

SPLICE TYP

WINDOW FRAME WHERE OCCURS - 18 GAUGE JAMB STUD - MIN EDGE DISTANCE - TYP - 18 GAUGE TRACK - CUT AND BEND TRACK DOWN - ATTACH EACH FLANGE WITH #10 SHEET METAL SCREWS (2) #10 SHEET METAL SCREWS @ EACH FLANGE (2) #8 SHEET METAL SCREWS

BUILT-UP CORNER ASSEMBLIES

1 1/2" = 1'-0"



STUD

BLOCKING

<u>DUCT</u>

STUDS IS NOT

MATERIAL. IF

REQUIRED, SEE

DETAIL 8/A-572

BRACED BY WALL

OPENING SILL - 16'-0" MAX WIDTH

- SHADED AREA DENOTES CASEWORK, EQUIPMENT, NO DUCT PENETRATION ALLOWED / 4'-6" MAX GRAB BARS, RAILINGS, ACCESSORIES, ETC SHALL BE CONNECTED SIMILAR. USE TYPE 'A', 'B' OR 'C' BACKING TYPE A, B, C MAX PER 18/A-572 AS REQUIRED (3 STUDS MIN) CEILING LINE, WHERE OCCURS A-572 BUILT UP CORNER A-572 BRIDGING IS REQUIRED ONLY IF SIDE OF METAL

8'-6"/16'-0" MAX

DOOR/WINDOW

TYPICAL INTERIOR STUD WALL FRAMING (NON LOAD-BEARING WALLS ONLY) / 1/4" = 1'-0"

TRACK BLOCKING @ TRACK BLOCKING @ LATCH & CENTER LATCH & CENTER

HINGE TYP

DOOR/WINDOW

METAL FRAMING NOTES

GALVANIZED METAL STUDS ARE / HAVE BEEN CHOSEN BASED ON ICC REPORT NO ESR-3064P. METAL STUDS SHALL BE MADE OF MINIMUM CHPS APPROVED STANDARD FOR RECYCLED CONTENT AND CONFORM TO ASTM A-653, GRADE 33 (GALVANIZING). METAL FRAMING SHALL BE THE FOLLOWING:

1. FOR INTERIOR WALLS/ PARTITIONS WITH (1)-LAYER OF GYPSUM BOARD OR PLASTER

- ON EITHER ONE OR BOTH SIDES, USE THE FOLLOWING, UON:
 - A. ALL STUDS ARE 18 GA MAX UNBRACED HEIGHT 18' 0"
- B. STUD AND JOIST FLANGE SHALL BE 1-5/8" DEEP
- C. TRACK FLANGE SHALL BE 1-1/4" MIN DEEP 2. FOR EXTERIOR WALLS SEE STRUCTURAL DRAWINGS
- 3. TOP AND BOTTOM TRACKS FOR ALL STUD WALLS/PARTITIONS SHALL BE THE SAME SIZE AND GAUGE AS STUDS, EXCEPT USE 16 GAUGE TRACKS AS INDICATED FOR BACKING, SLIP TRACKS, ETC
- 4. WHERE CABINETS ARE TO BE ANCHORED TO STUD WALLS/PARTITIONS, FOLLOW TYPICAL DETAILS FOR STUDS AND BACKING
- 5. ALL STUDS, JOISTS, AND TOP TRACK SHALL CONFORM WITH ASTM A-653, GRADE "C" FOR 18 GAUGE AND HEAVIER
- TYPICAL CONNECTIONS UON: A. TRACK TO STUD: #8 SHEET METAL SCREWS EACH FLANGE
- (STAGGERED)
- C. BUILT UP CORNERS: #8 SHEET METAL SCREWS @ 24" OC
- D. FACE OF MEMBER TO FLANGE OF MEMBER < = 4": (2) #10 SHEET METAL SCREWS

B. DOUBLE STUDS: #8 SHEET METAL SCREWS @ 12" OC (WEB TO WEB)

- E. FACE OF MEMBER TO FLANGE OF MEMBER > = 4": (3) #10 SHEET METAL SCREWS
- F. LAPPED CONNECTION: (3) #8 SHEET METAL SCREWS (WEB TO WEB) G. TOP PLATE TO JOIST: (2) #8 SHEET METAL SCREWS
- H. TOP PLATE TO RIDGE TRACK: #8 SHEET METAL SCREWS @ 4" OC
- 6. ALL METAL CONNECTIONS SHALL BE MITERED CUT, WELDED AND GROUND
- 7. ALL WELDS 3/16" UON

MINIMUM ATTACHMENT OF APPROVED WALL COVERINGS TO PROVIDE CONTINUOUS ADEQUATE LATERAL SUPPORT FOR STUD FLANGES:

WALL COVERING WITH DIRECT ATTACHMENT:
APPROVED LATHS FOR PLASTER: PER CBC TABLE 2507.2. LATH, PLASTERING & ACCESSORIES

SINGLE AND DOUBLE-PLY GYPSUM WALLBOARD: PER CBC TABLE 2508.1 INSTALLATION OF GYPSUM CONSTRUCTION

PLYWOOD (NON-STRUCTURAL): #6 PHILLIPS BUGLE HEAD SHEET METAL SCREW (1/4" MIN PENETRATION) SPACED PER CBC SECTION 2304.9

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2023-SR001-002

Typical Interior Metal Framing

SEE DETAIL 8/A-573 HANGER OR BRACE WIRE

-4 TURNS IN 1-1/2" AT EACH END, TYP.

I. WIRE SPLICES ARE SHOWN LOOSELY TIED FOR ILLUSTRATIVE PURPOSES ONLY AND SHALL BE DRAWN TIGHT TO COMPLETE INSTALLATION WHEN CONSTRUCTED. . WIRE LOOPS SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT TO PREVENT ANY VERTICAL MOVEMENT OR ROTATION WITHIN THE LOOPS. 3. EACH HANGER AND BRACE WIRE SHALL BE SPLICED NO MORE THAN ONCE ALONG ITS LENGTH

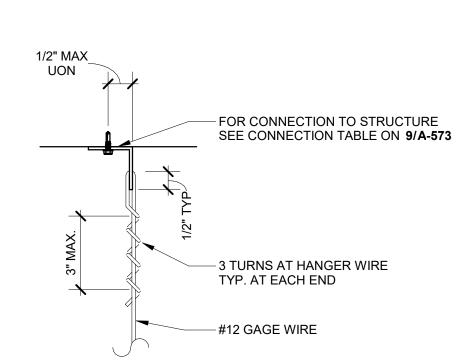
CEILING WIRE SPLICES SCALE: 3" = 1'-0"

STRUCTURAL SYSTEM OF FLOOR/ ROOF	APPLICABLE
ABOVE SUSPENDED CEILING	DETAIL
CONCRETE OVER METAL DECK	9/A-574

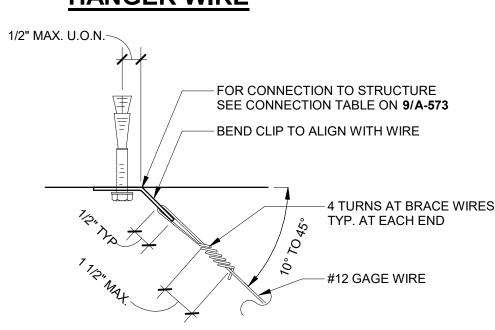
COMPRESSION STRUT CONNECTION TABLE SCALE: 12" = 1'-0"

STRUCTURAL SYSTEM OF FLOOR/ ROOF ABOVE SUSPENDED CEILING	APPLICABLE HANGER WIRE DETAIL	APPLICABLE BRACE WIRE DETAIL
METAL STUD WALL	3/A-574	5/A-574
OPEN WEB STEEL JOIST	6/A-574 & 2/A-574	7/A-574 & 2/A-574

HANGER AND BRACE WIRE CONNECTION TABLE SCALE: 12" = 1'-0"



HANGER WIRE



BRACE WIRE

HANGER AND BRACE WIRE CONNECTION - TYP. WIRE TURNS

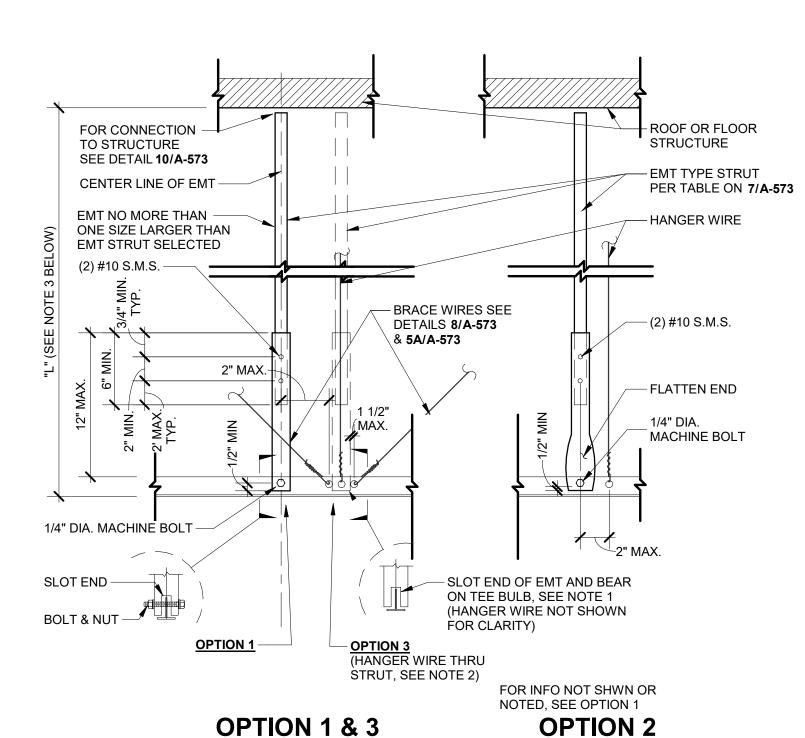
COMPRESSION STRUT EMT SECTION	MAXIMUM LENGTH
1/2" DIAMETER EMT (0.042" WALL THICKNESS)	3' - 11"
3/4" DIAMETER EMT (0.049" WALL THICKNESS)	6' - 4"
1" DIAMETER EMT (0.057" WALL THICKNESS)	9' - 9"
1 1/4" DIAMETER EMT (0.065" WALL THICKNESS)	12' - 9"
1 1/2" DIAMETER EMT (0.065" WALL THICKNESS)	14' - 9"
2" DIAMETER EMT	18' 10"

(0.065" WALL THICKNESS)

COMPRESSION STRUT CHANNEL SECTION	MAXIMUM LENGTH
250S125-33	5' - 10"
250S137-33	6' - 10"
362S137-33	8' - 0"
250S137-43	8' - 10"
400S137-43	10' - 10"

COMPRESSION STRUT TABLE SCALE: 12" = 1'-0"

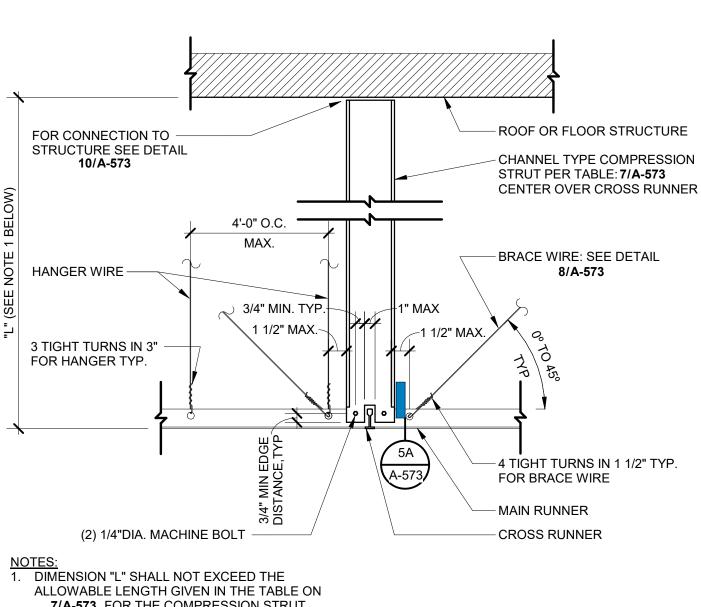
18' - 10"

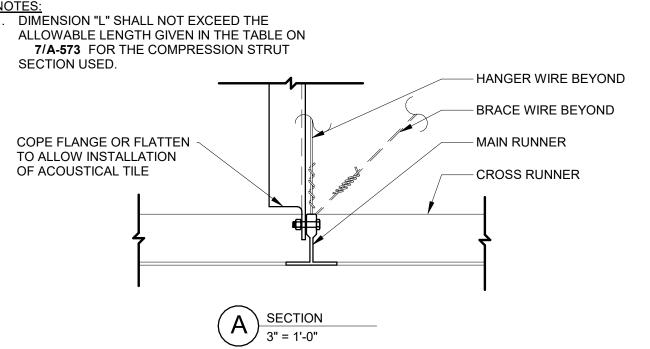


STRUT USED

MACHINE BOLT IS NOT REQUIRED ON OPTION 3. 2. OPTION 3 IS PERMITTED ONLY WHERE THE ROOF OR FLOOR STRUCTURE IS SAWN TIMBER WITHOUT GYPSUM BOARD. 3. DIMENSION "L" SHALL NOT TO EXCEED THE ALLOWABLE LENGTH GIVEN IN THE TABLE ON 7/A-573 FOR THE COMPRESSION

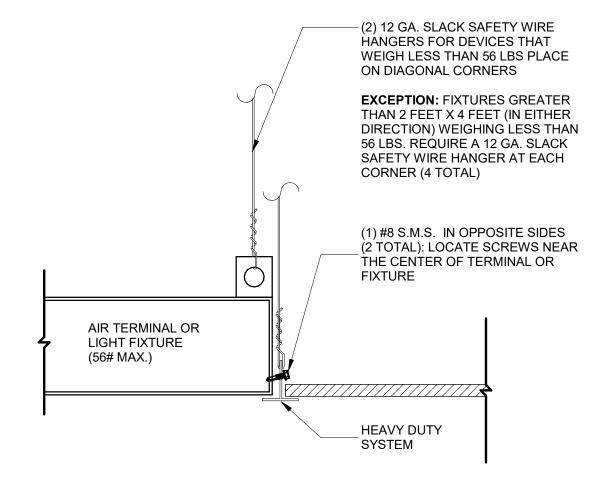
COMPRESSION STRUT - EMT TYPE A-573 SCALE: 1 1/2" = 1'-0"



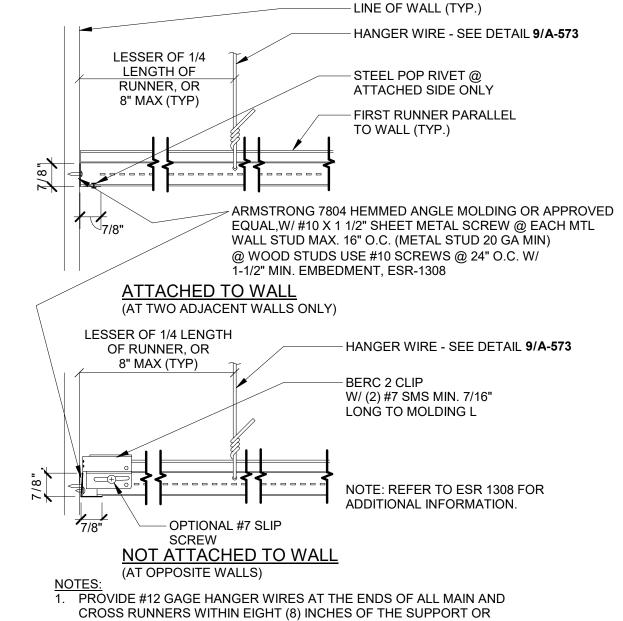


COMPRESSION STRUT- CHANNEL

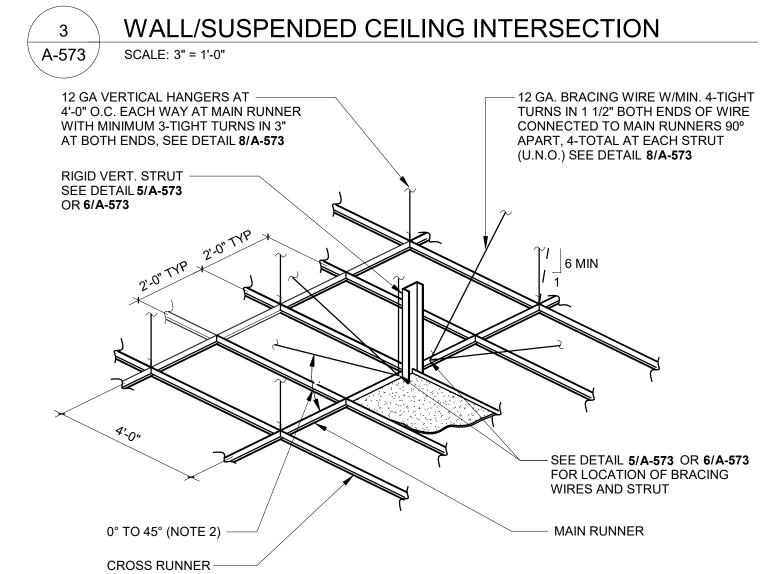
SCALE: 1 1/2" = 1'-0"



LUMINAIRE / AIR TERMINAL SUPPORT A-573 SCALE: 3" = 1'-0"



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.

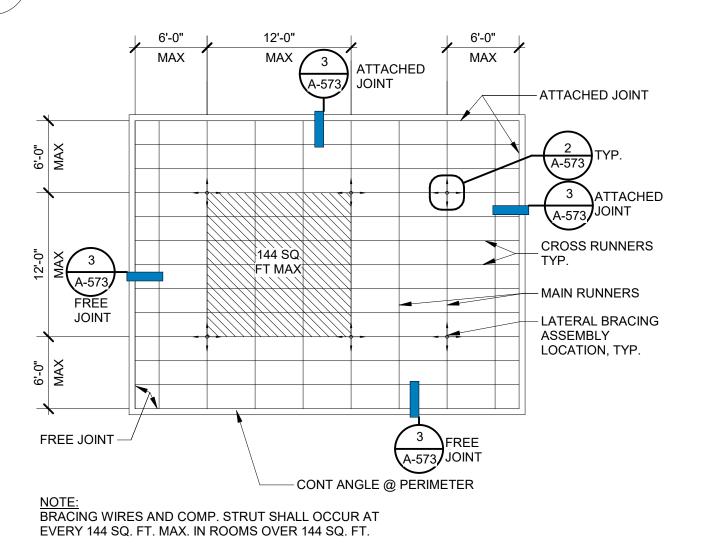


NOTES:

UNOBSTRUCTED.

STRUTS SHALL NOT REPLACE HANGER WIRES. THE MINIMUM ACCEPTABLE ANGLE IS DETERMINED SUCH THAT THE WIRES DO NOT INTERFERE WITH THE RUNNERS, LIGHT FIXTURES, ETC. AND REMAIN STRAIGHT AND

SUSPENSION AND LATERAL BRACING ASSEMBLY A-573 / SCALE: 3" = 1'-0"



TYP. CEILING PLAN FOR 12'-0"x12'-0" BRACE ASSEMBLY SPACING

SCALE: 1/8" = 1'-0" SUSPENDED LAY-IN ACOUSTICAL **CEILING NOTES**

THE DESIGN AND INSTALLATION OF SUSPENDED ACOUSTIC CEILING SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS CONTAINED IN TITLE 24, PART 2 - CALIFORNIA BUILDING CODE 2022, AND WITH THE FOLLOWING ADDITIONAL REQUIREMENTS AS NOTED:

CBC 1616A.1.21, CALIFORNIA BUILDING CODE (PART 2, TITLE 24, CALIFORNIA CODE OF REGULATIONS) FOR SUSPENDED CEILING SYSTEMS IN PUBLIC SCHOOL BUILDINGS. DIVISION OF THE STATE ARCHITECT, INTERPRETATION OF REGULATIONS DOCUMENT IR 25-2 (DATED 03/18/2022) DEVIATIONS OR SPECIAL SITUATIONS NOT ADDRESSED BY THESE NOTES REQUIRE REVIEW AND APPROVAL BY THE DIVISION OF THE STATE ARCHITECT (DSA) FOR PUBLIC SCHOOL BUILDINGS.

THE FOLLOWING REQUIREMENTS APPLY TO CEILING SYSTEMS WHOSE TOTAL WEIGHT, INCLUDING CEILING MOUNTED AIR TERMINALS, SERVICES AND LIGHT FIXTURES, DOES NOT EXCEED FOUR (4) PSF. HEAVIER SYSTEMS, AND THOSE SUPPORTING LATERAL LOADS FROM PARTITIONS, WILL REQUIRE SPECIAL DESIGN DETAILS. SEE SPECIFICATIONS SECTION 09 51 ## FOR ADDITIONAL INFORMATION REGARDING THE SUSPENDED ACOUSTICAL CEILING SYSTEM

FOR FULL SEISMIC REHABILITATION, ALL CEILING WORKS TO COMPLY WITH 2022 CBC

1. CEILING SYSTEM GENERAL NOTES

1.01 CEILING SYSTEM COMPONENTS SHALL COMPLY WITH ASTM C635 AND SECTION 5.1 OF ASTM

1.02 THE CEILING GRID SYSTEM MUST BE RATED HEAVY DUTY AS DEFINED BY ASTM C635.

1.03 CEILING SYSTEMS. THE FOLLOWING CEILING SYSTEM(S) IS/ARE PART OF THE SCOPE OF THIS PROJECT: MANUFACTURER: ARMSTRONG PRODUCT NAME: PRELUDE XL 15/16" EXPOSED TEE

EVALUATION REPORT TYPE AND NUMBER: ICC EVALUATION SERVICE REPORT NO. 1308 MAIN RUNNER PART, MODEL, OR CATALOG NUMBER: 7301HRC CROSS RUNNER PART, MODEL, CATALOG NUMBER: XL734HRCWT

1.04 SEISMIC WALL CLIP: **ARMSTRONG** MANUFACTURER'S MODEL: BERC2 CLIP

TENSILE STRENGTH = 70 KSI.

1.05 CEILING PANELS SHALL NOT SUPPORT ANY LUMINAIRES, AIR TERMINALS ORDEVICES.

1.06 FOR CEILING INSTALLATIONS UTILIZING ACOUSTICAL TILE PANELS OF MINERAL OR GLASS FIBER, IT IS NOT MANDATORY TO PROVIDE 3/4" CLEARANCE BETWEEN THE ACOUSTICAL TILE PANELS AND THE WALL ON THE SIDES OF THE CEILING WHICH ARE FREE TO SLIP. FOR ALL OTHER CEILING PANEL TYPES, PROVIDE 3/4" CLEARANCE BETWEEN THE CEILING PANEL AND THE WALL ON THE SIDES OF THE CEILING FREE TO SLIP. CLEARANCE BETWEEN CEILING GRID RUNNERS/MEMBERS AND WALLS SHALL COMPLY WITH THE DETAILS ON THESE DRAWINGS REGARDLESS OF CEILING TILE MATERIAL.

2.01 CEILING WIRE SHALL BE CLASS 1 ZINC COATED (GALVANIZED) CARBON STEEL CONFORMING TOASTM A641. WIRE SHALL BE #12 GAUGE (0.106" DIAMETER) WITH SOFT TEMPER AND MINIMUM ULTIMATE

2.02 GALVANIZED SHEET STEEL (INCLUDING THAT USED FOR METAL STUD AND TRACK COMPRESSION STRUTS/POST) SHALL CONFORM TO ASTM A653, OR OTHER EQUIVALENT SHEET STEEL LISTED IN SECTION A3.1 OF THE NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, (AISI S100). MATERIAL 43 MIL (18 GAUGE) AND LIGHTER SHALL HAVE MINIMUM YIELD STRENGTH OF 33 KSI. MATERIAL 54 MIL (16 GAUGE) AND HEAVIER SHALL HAVE A MINIMUM YIELD STRENGTH OF 50KSI.

2.03 ELECTRICAL METALLIC TUBE (EMT) SHALL BE ANSI C80.3/UL 797 CARBON STEEL WITH G90 GALVANIZING. EMT SHALL HAVE MÍNIMUM YIELD STRENGTH (FY) OF 30 KSI AND MINIMUM ULTIMATE STRENGTH (FU) OF 48 KSI.

ATTACHMENT OF HANGER AND BRACING WIRES

DUCTS, PIPES, CONDUIT, ETC.

3.01 SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST 6 INCHES FROM ALL UNBRACED

3.02 HANGER AND BRACING WIRES SHALL NOT ATTACH TO OR BEND AROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO PIPING, DUCTWORK, CONDUIT AND EQUIPMENT.

3.03 HANGER WIRES THAT ARE MORE THAN ONE (HORIZONTAL) IN SIX (VERTICAL) OUT OF PLUMB SHALL HAVE

COUNTER-SLOPING WIRES. 3.04 SLACK SAFETY WIRES SHALL BE CONSIDERED HANGER WIRES FOR INSTALLATION AND TESTING

3.05 HANGER AND BRACING WIRE ANCHORAGE TO THE STRUCTURE SHALL BE INSTALLED IN SUCH A MANNER

THAT THE DIRECTION OF THE ANCHORAGE ALIGNS CLOSELY WITH THE DIRECTION OF THE WIRE (E.G., BRACING WIRE CEILING CLIPS MUST BE BENT AS SHOWN IN THE DETAILS AND ROTATED AS REQUIRED TO ALIGN CLOSELY WITH THE DIRECTION OF THE WIRE, SCREW EYES IN WOOD MUST BE INSTALLED SO THEY ALIGN CLOSELY WITH THE DIRECTION OF THE WIRE, ETC.).

FASTENERS AND WELDING

4.01 SHEET METAL SCREWS SHALL COMPLY WITH ASTM C1513 AND ASME B18.6.3. PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHALL NOT BE LESS THAN THREE EXPOSED THREADS.

4.02 EXPANSION ANCHORS SHALL BE: N/A

4.03 POWER-ACTUATED FASTENERS SHALL BE: HILTI X-U PINS (ESR-2269)

4.04 IF NOT OTHERWISE SPECIFIED IN THE EVALUATION REPORT, POWER-ACTUATED FASTENERS INSTALLED IN STEEL SHALL BE INSTALLED SO THE ENTIRE POINTED END OF THE FASTENER IS DRIVEN THROUGH THE STEEL

4.05 POWER-ACTUATED FASTENERS IN CONCRETE OR MASONRY ARE NOT PERMITTED FOR BRACING WIRES.

4.06 CONCRETE REINFORCEMENT AND PRESTRESSING TENDONS SHALL BE LOCATED BY NON-DESTRUCTIVE

MEANS PRIOR TO INSTALLING POST-INSTALLED ANCHORS.

4.07 WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3 USING E60XX SERIES ELECTRODES.

5. **TESTING**

5.01 ALL FIELD TESTING MUST BE PERFORMED IN THE PRESENCE OF THE PROJECT INSPECTOR.

5.02 POST-INSTALLED ANCHORS IN CONCRETE USED TO SUPPORT HANGER WIRES SHALL BE TESTED AT A FREQUENCY OF 10 PERCENT. POWER-ACTUATED FASTENERS IN CONCRETE SHALL BE FIELD TESTED FOR 200 POUNDS IN TENSION. ALL OTHER POST-INSTALLED ANCHORS IN CONCRETE SHALL BE TESTED IN ACCORDANCE WITH CBC SECTION 1910A.5.

5.03 POST-INSTALLED ANCHORS IN CONCRETE USED TO ATTACH BRACING WIRES SHALL BE TESTED AT A FREQUENCY OF 50 PERCENT IN ACCORDANCE WITH CBC SECTION 1910A.5.

LUMINAIRES

6.01 ALL LUMINAIRES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE LUMINAIRE. A MINIMUM OF TWO SCREWS OR APPROVED FASTENERS ARE REQUIRED AT EACH LUMINAIRE, PER ASTM

6.02 SURFACE-MOUNTED LUMINAIRES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES. THE CLAMPING DEVICE SHALL COMPLETELY SURROUND THE SUPPORTING CEILING RUNNER AND BE MADE OF STEEL WITH A MINIMUM THICKNESS OF #14 GAUGE. ROTATIONAL SPRING CATCHES DO NOT COMPLY. A #12 GAUGE SLACK SAFETY WIRE SHALL BE CONNECTED FROM EACH CLAMPING DEVICE TO THE STRUCTURE ABOVE. PROVIDE ADDITIONAL SUPPORTS WHEN A LUMINAIRE IS 8 FEET OR LONGER OR EXCEEDS 56 POUNDS. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED 8 FEET.

6.03 LUMINAIRES WEIGHING LESS THAN OR EQUAL TO 10 POUNDS MAY BESUPPORTED DIRECTLY ON THE CEILING RUNNERS, SHALL HAVE A MINIMUM OF ONE #12 GAUGE SLACK SAFETY WIRE CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE.

6.04 LUMINAIRES WEIGHING GREATER THAN 10 POUNDS BUT LESS THAN OR EQUAL TO 56 POUNDS MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS, BUT THEY SHALL HAVE A MINIMUM OF TWO #12 GAUGE SLACK SAFETY WIRES CONNECTED FROM THE FIXTURE HOUSING AT DIAGONAL CORNERS TO THE STRUCTUREABOVE.

EXCEPTION: ALL LUMINAIRES GREATER THAN TWO BY FOUR FEET WEIGHING LESS THAN 56 POUNDS SHALL HAVE A #12 GAUGE SLACK SAFETY WIRE AT EACH CORNER.

6.05 ALL LUMINAIRES WEIGHING GREATER THAN 56 POUNDS SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR TAUT #12 GAUGE HANGER WIRES (ONE AT EACH CORNER) ATTACHED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS. THE FOUR TAUT #12 GAUGEWIRES OR OTHER APPROVED HANGERS, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, SHALL BE CAPABLE OF SUPPORTING FOUR TIMES THE WEIGHT OF THE FIXTURE.

SERVICES WITHIN THE CEILING

7.01 ALL FLEXIBLE SPRINKLER HOSE FITTING MOUNTING BRACKETS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS. SCREWS OR APPROVED FASTENERS ARE REQUIRED. A MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH COMPONENT.

7.02 CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING LESS THAN OR EQUAL TO 20 POUNDS SHALL HAVE ONE #12 GAUGE SLACK SAFETY WIRE ATTACHED FROM THE TERMINAL OR SERVICE TO THE

7.03 FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 20 POUNDS BUT LESS THAN OR EQUAL TO 56 POUNDS SHALL HAVE TWO #12 GAUGE SLACK SAFETY WIRES (AT DIAGONAL CORNERS) CONNECTED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE

7.04 FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 56 POUNDS SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY NOT LESS THAN FOUR TAUT #12 GAUGE HANGER WIRES ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS.

OTHER DEVICES WITHIN THE CEILING

8.01 ALL LIGHTWEIGHT MISCELLANEOUS DEVICES, SUCH AS STROBE LIGHTS, OCCUPANCY SENSORS, SPEAKERS, EXIT SIGNS, ETC., SHALL BE ATTACHED TO THE CEILING GRID. IN ADDITION, DEVICES WEIGHING MORE THAN 10 POUNDS SHALL HAVE A #12 GAUGE SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE ABOVE. DEVICES WEIGHING MORE THAN 20 POUNDS SHALL BE SUPPORTED INDEPENDENTLY FROM THE STRUCTURE ABOVE.

CLASSIFICATION OF CEILING GRID: HEAVY DUTY

CEILING GRID MANUFACTURERS AND PRODUCT SYSTEMS

NOTE: SYSTEM COMPONENTS, MATERIALS, RUNNER SPLICES, AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF CALIFORNIA BUILDING CODE AND THE RESPECTIVE I.C.C. EVALUATION REPORT AND LISTED BELOW FOR EACH MANUFACTURER AND SYSTEM.

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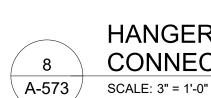
Facilities

△ Date

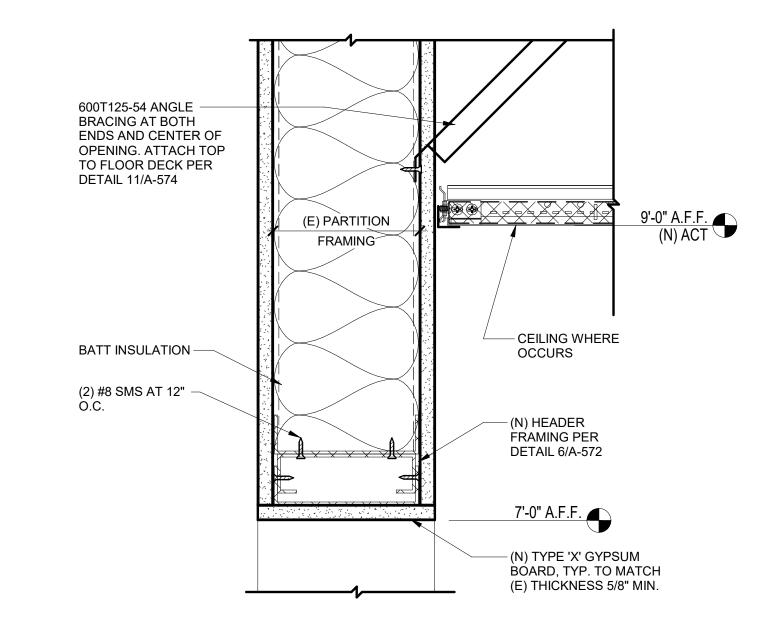
417 Montgomery Street Suite 400 San Francisco, California 94104 USA (415) 981-2345 WWW.HED.DESIGN

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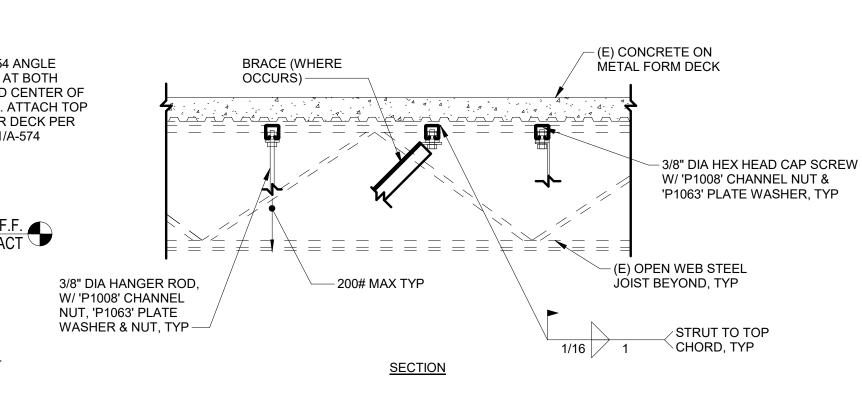
Suspended Lay-In Ceiling **Details**



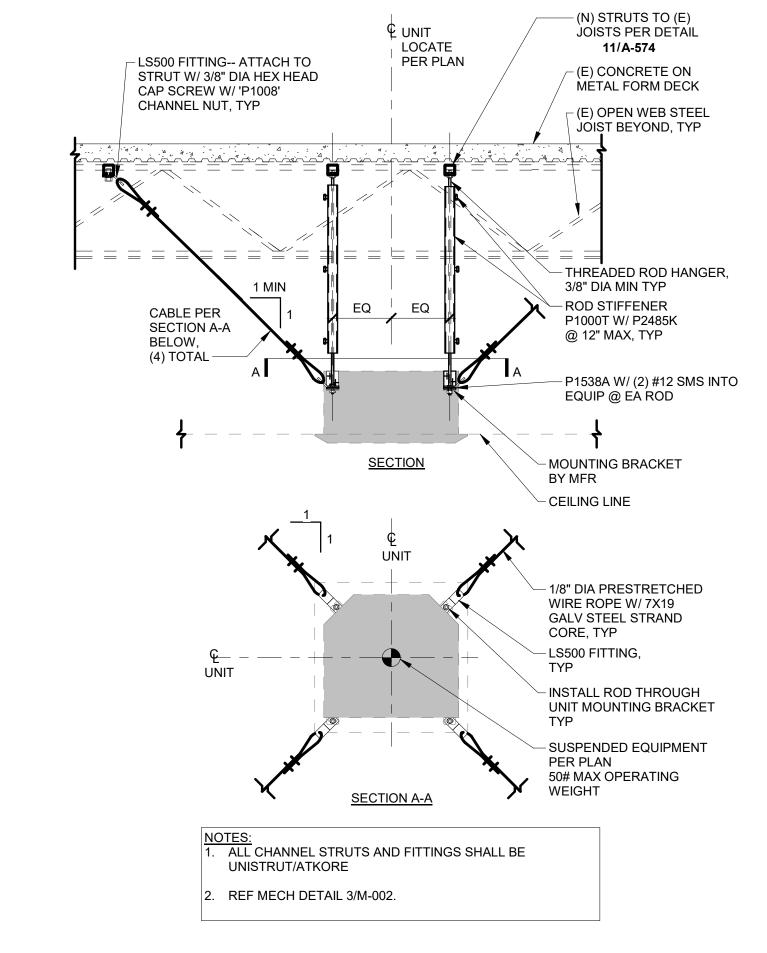
CEILING TRANSITION AT DOOR AT CORRIDOR DOOR OPENINGS A-574 SCALE: 3" = 1'-0"



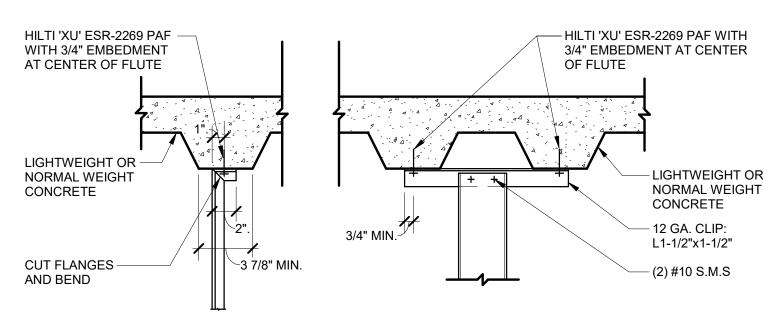
WALL OPENING HEAD A-574 SCALE: 3" = 1'-0"



TYP. ATTACHMENTS TO (E) FLOOR DECK A-574 SCALE: 1" = 1'-0"



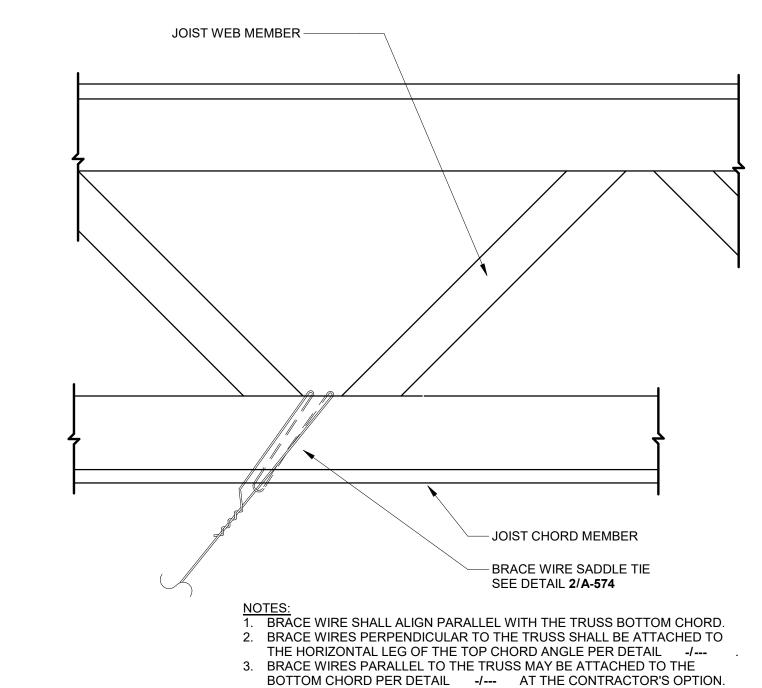
TYP. SUSPENDED FAN COIL (CEILING CASSETTE TYPE) 'FC' SUPPORT A-574 SCALE: 3/4" = 1'-0"



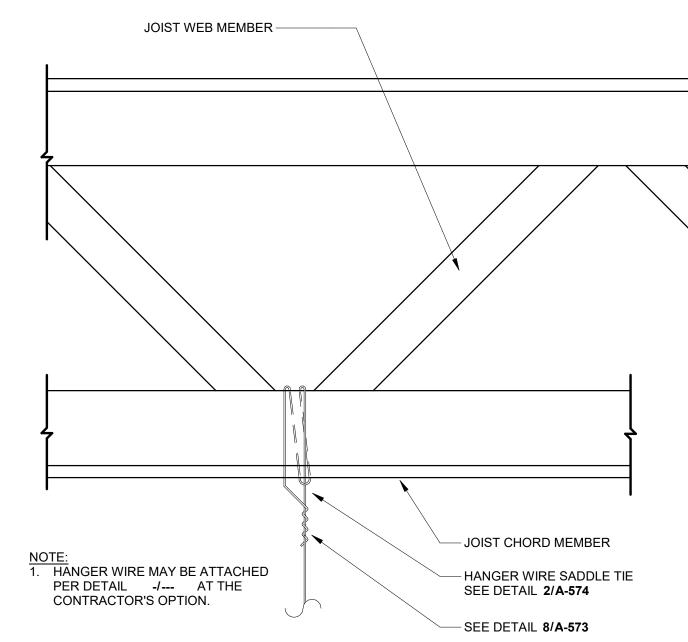
CHANNEL STRUT: OPTION 1 CHANNEL STRUT: OPTION 2 NOTES:

1. POST-INSTALLED ANCHORS TO BE PLACED NO MORE THAN 1" OFFSET FROM CENTERLINE OF DECK LOW FLUTE. 2. TEST POST INSTALLED ANCHORS IN ACCORDACE WITH HILTI 'XU' ESR-2269 PAF -CEILING NOTE 5.01. WITH 3/4" EMBEDMENT AT CENTER OF FLUTE HILTI 'XU' ESR-2269 PAF LIGHTWEIGHT OR WITH 3/4" EMBEDMENT NORMAL WEIGHT CONCRETE - 12 GA CLIP: 12 GA CLIP: L1-1/2"x L1-1/2"x1-1/2"x0'-2" 1-1/2"x0'-2" WIDE — (2) #10 S.M.S (2) #10 S.M.S. — - SLOT END OF TUBE FLATTEN END - PLACE TIGHT TO CLIP PLACE TIGHT TO CLIP OR STRUCTURE OR STRUCTURE **EMT STRUT: OPTION 2 EMT STRUT: OPTION 1**

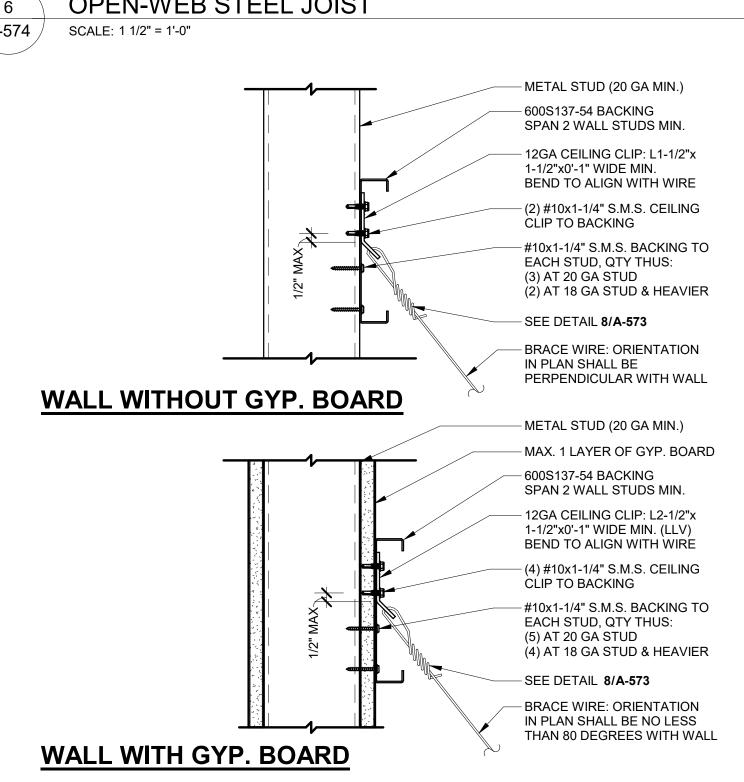
STRUT CONNECTION TO CONCRETE OVER METAL DECK A-574 SCALE: 1 1/2" = 1'-0"



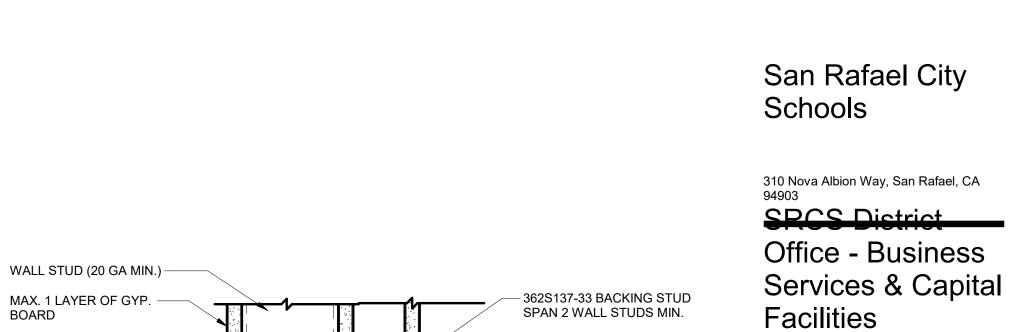
BRACE WIRE CONNECTION TO OPEN-WEB STEEL JOIST A-574 / SCALE: 1 1/2" = 1'-0"



HANGER WIRE CONNECTION TO **OPEN-WEB STEEL JOIST**



BRACE WIRE CONNECTION TO METAL STUD WALL A-574 SCALE: 3" = 1'-0"



-#10x1-1/4" S.M.S. CLIP TO BACKING STUD

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- 12GA CEILING CLIP: 12 GA CEILING CLIP: L1"x1"x0'-3/4" WIDE MIN. L1"x1"x0'-3" WIDE - (2) #10x1-1/4" S.M.S. BACKING STUD TO EACH WALL STUD SEE DETAIL 8/A-573-- SEE DETAIL **8/A-573** OPTION 1 OPTION 2 WALL STUD (20 GA MIN.) WALL STUD - MAX. 1 LAYER OF GYP. BOARD (20 GA MIN.) (1) #10 S.M.S. TO — (2) #10 S.M.S. TO WALL STUD WALL STUD - 12 GA CEILING CLIP: 12 GA CEILING CLIP: -L1"x1"x0'-3/4" WIDE MIN. L1"x1"x0'-3/4" WIDE MIN. - SEE DETAIL **8/A-573** SEE DETAIL 8/A-573 **OPTION 3A: DIRECT OPTION 3B: AT GYP**

BOARD

A-574

SCALE: 3" = 1'-0"

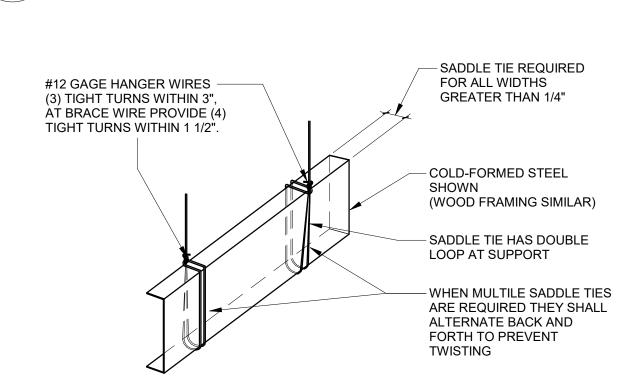
(2) #10 S.M.S. @ 2" O.C. -TO WALL STUD

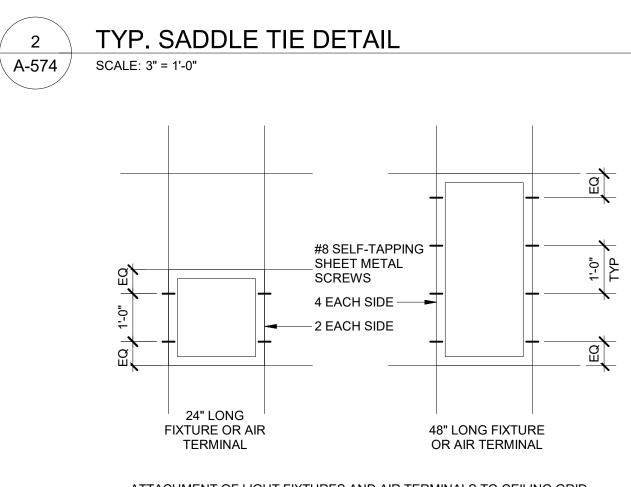
HANGER WIRE CONNECTION TO METAL STUD WALL

NOTES:

1. THIS DETAIL APPLIES AT PERIMETER WIRE ATTACHEMENT OR WHERE

OBSTRUCTION PREVENTS ATTACHMENT TO THE STRUCTURE ABOVE.





ATTACHMENT OF LIGHT FIXTURES AND AIR TERMINALS TO CEILING GRID NOTE; FOR LIGHT FIXTURES WEIGHING GREATER THAN 10 LBS BUT LESS THAN OR EQUAL TO 56 LBS, PROVIDE A MIN OF (2) #12 GA SLACK SAFETY WIRES CONNECTED FROM THE FIXTURE HOUSING AT DIAGONAL CORNERS TO THE STRUCTURE ABOVE. SEE DETAIL 4/A-573

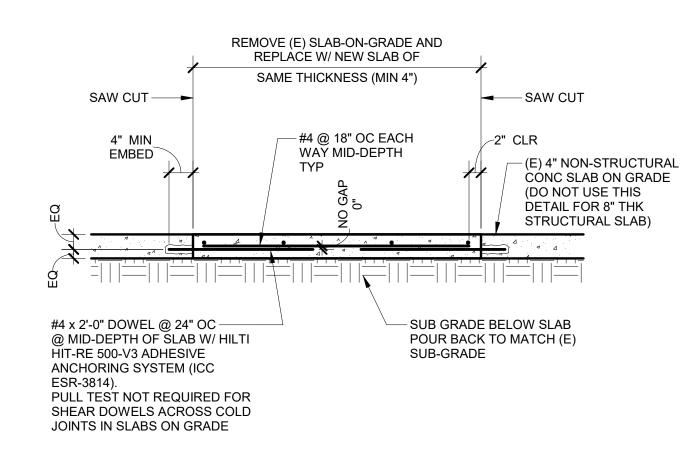
LIGHT FIXTURE ATTACHMENT **∖** A-574 / SCALE: 1/2" = 1'-0"



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Ceiling Details

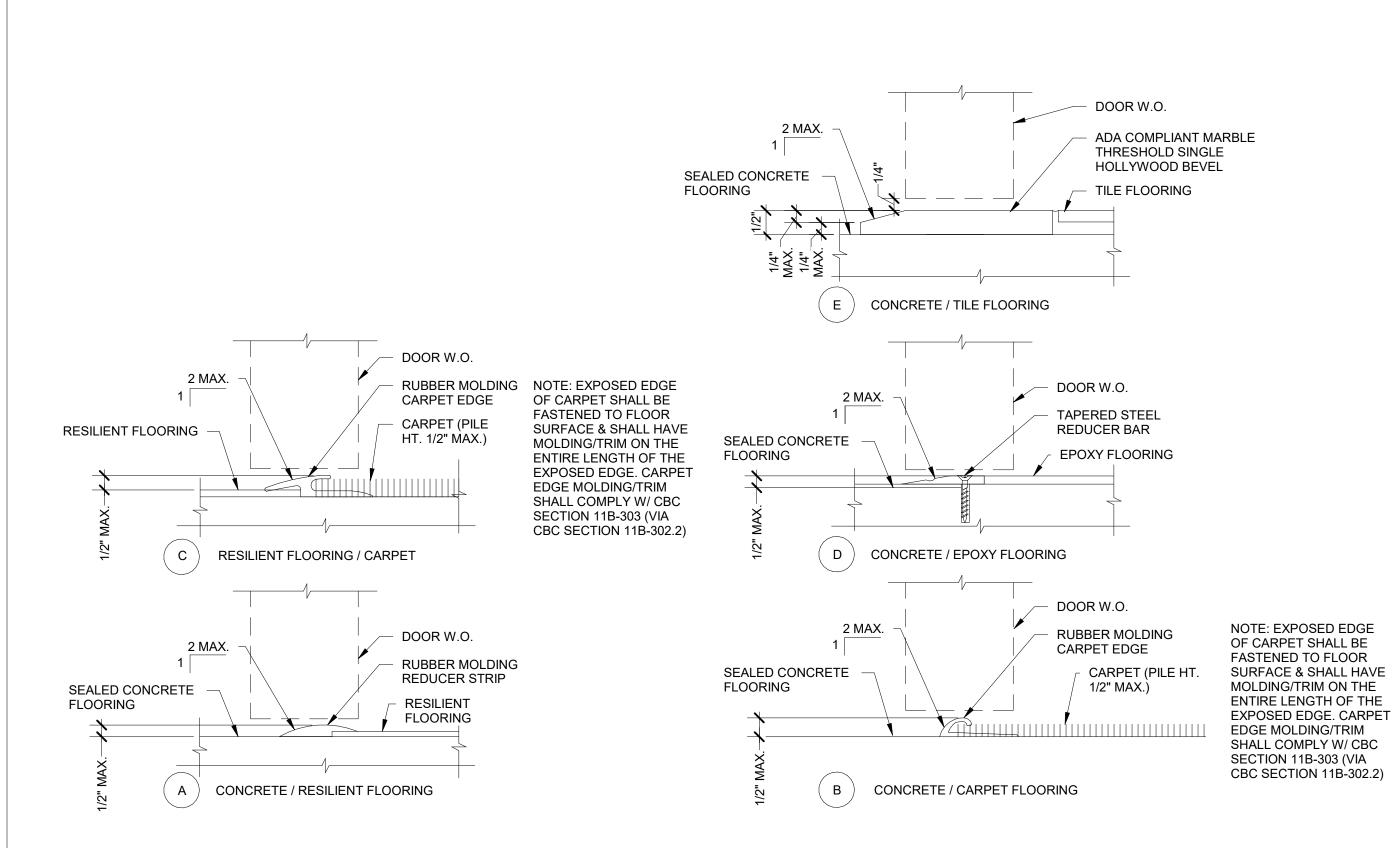
11 DOOR OPENING INFILL (SECTION) 3" = 1'-0"

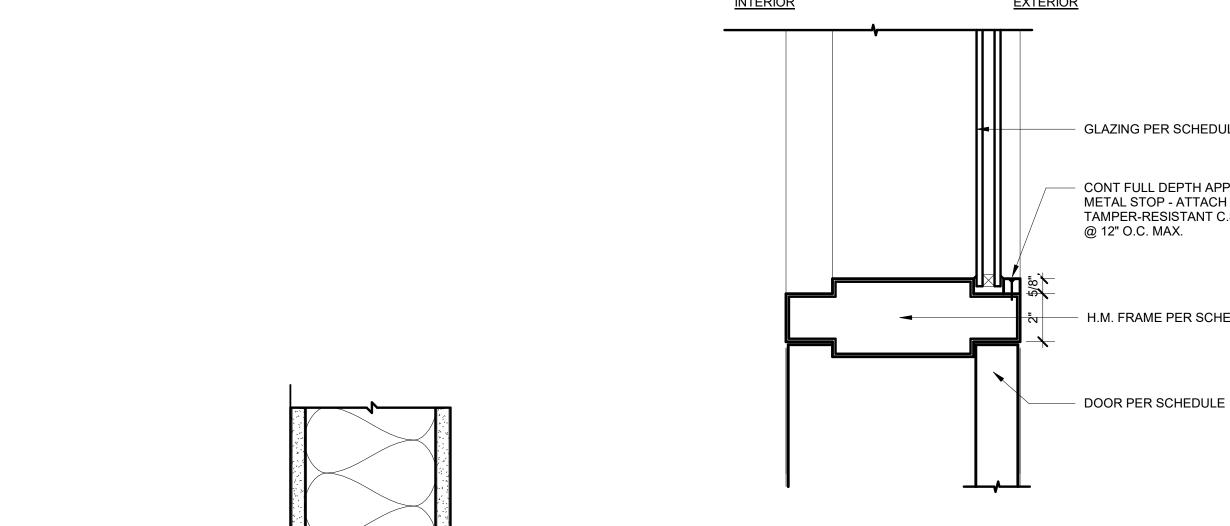


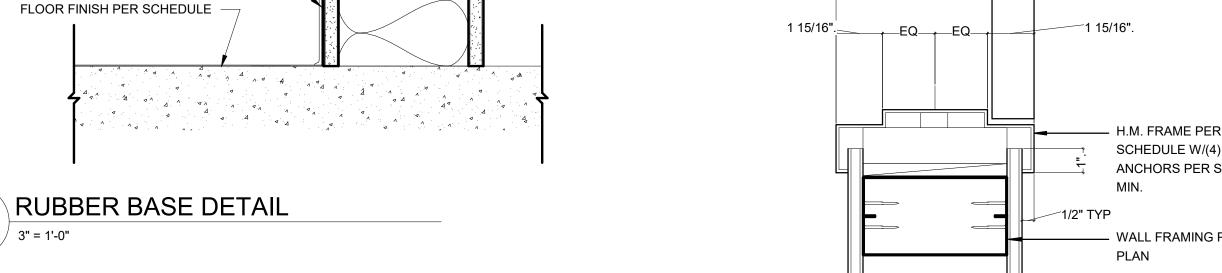
10 TYP. SLAB POUR BACK

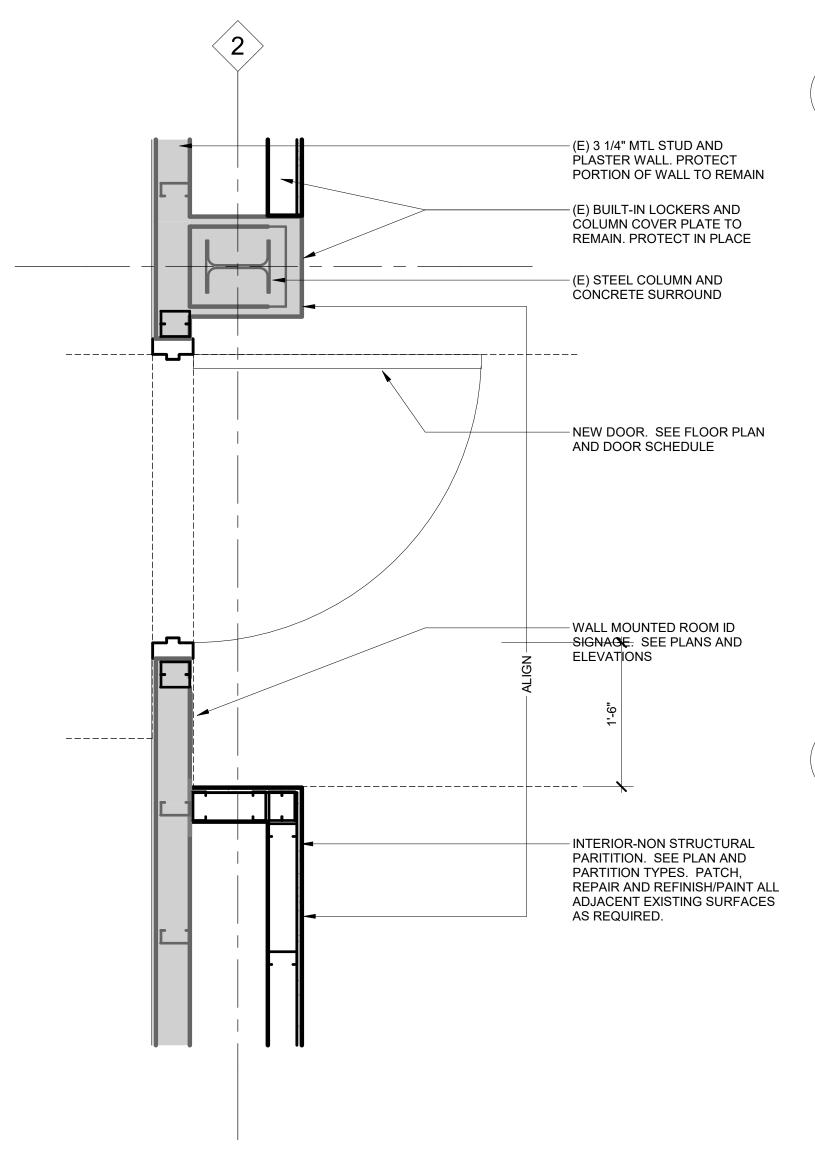
3/4" = 1'-0"

TYP. FLOOR TRANSITIONS





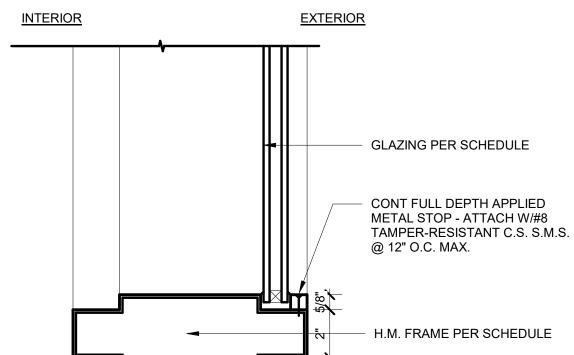




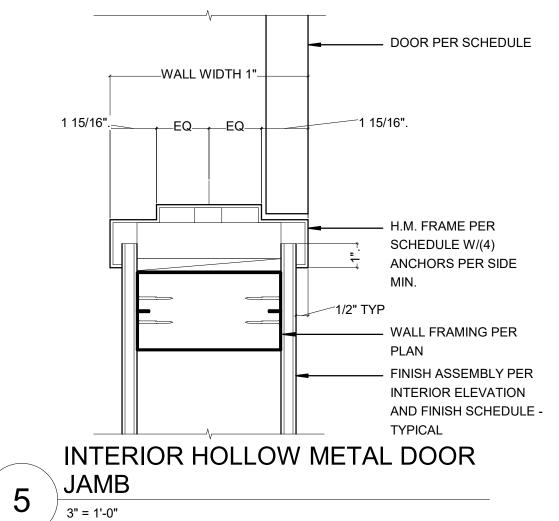
WALL FRAMING PER PLAN

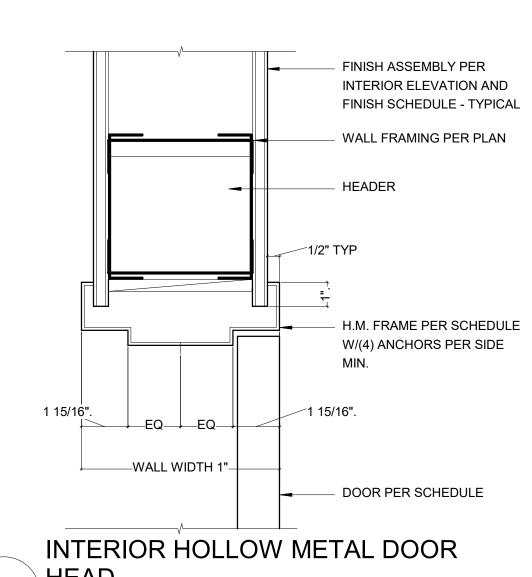
RUBBER BASE

ENLARGED FLOOR PLAN - ENTRY DOOR 1" = 1'-0"

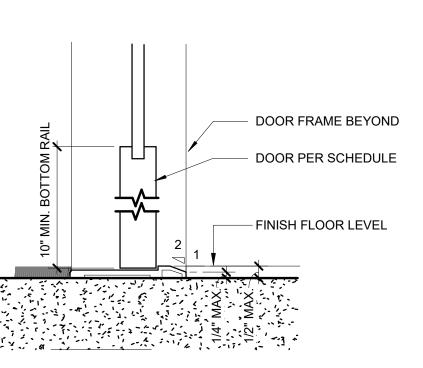


H.M. DOOR + TRANSOM-HEAD





4 HEAD
3" = 1'-0"



INTERIOR DOOR THRESHOLD

DOOR GENERAL NOTES

 REFER TO DOOR SCHEDULE FOR TYPE AND FINISH OF DOOR PANELS AND FRAMES. 2. SEE FLOOR PLANS FOR ADDITIONAL INFORMATION

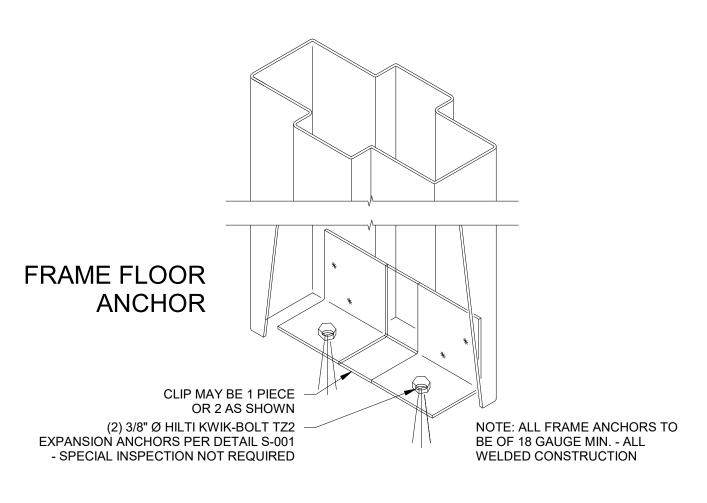
Schools SAN RAFAEL 310 Nova Albion Way, San Rafael, CA SRCS District

San Rafael City

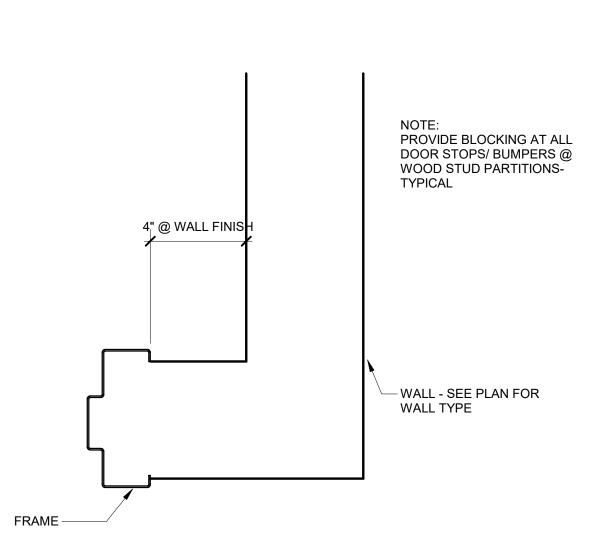
Office - Business Services & Capital **Facilities**

310 Nova Albion Way, San Rafael, CA

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H.M. DOOR ANCHOR



TYPICAL DOOR LOCATION PLAN

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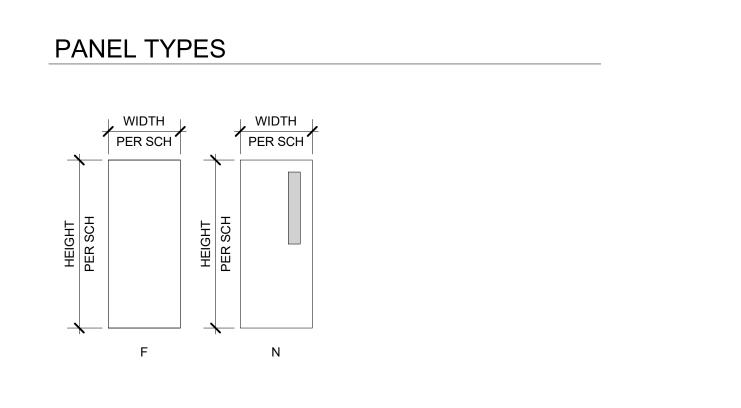
Door & Interior **Details**

							DOC	R S	CHED	ULE			
			DOC	ORS				FRAME					
		SIZE	,										
MARK	WIDTH	HEIGHT	THK	TYPE - MTL	FINISH	GLAZING	TYPE-MTL	FINISH	GLAZING	HEAD	JAMB	HW SET	NOTES
LEVEL	1	•				•					•		
505	3'-0"	7'-0"	1 3/4"	N-WD	PT-2	GL-1	001-HM1	PT-2	NA	6/A-575	5/A-575	1	
506	3'-0"	7'-0"	1 3/4"	N-WD	PT-2	GL-1	001-HM1	PT-2	NA	6/A-575	5/A-575	1	
506A	3'-0"	7'-0"	1 3/4"	F-WD	PT-3	NA	001-HM1	PT-4	NA	4/A-575	5/A-575	1	
507	3'-0"	7'-0"	1 3/4"	N-WD	PT-2	GL-1	001-HM1	PT-2	NA	6/A-575	5/A-575	1	

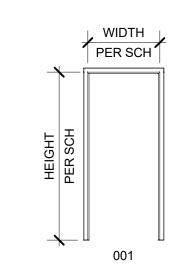
		RO	OM F	INIS	H SC	HED	ULE		
		FIN	ISH		W	ALLS			
ROOM NO	NAME	FLOOR	BASE	N	S	E	W	CEILING	NOTES
LEVEL 1		•			'	_			
500	(E) CORRIDOR	RSF-E	RB-1		PT-1	PT-1		ACT-E	MATCH EXISTING ADJACENT ACT CEILING & FLOORNG
505	EXECUTIVE ASSISTANT	RSF-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
505A	ASSISTANT SUPERINTENDENT OF BUSINESS SERVICES	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
506	BOND OFFICE	RSF-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
506A	DIRECTOR OFFICE	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
507	CONFERENCE	RSF-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
508A	STAFF LOUNGE	RSF-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	

		FII	NISH MAT	ERIALS	SLIST	
MARK	MANUFACTURER	STYLE	PRODUCT#	SIZE	COLOR	COMMENTS
BASE						
RB-1	BURKE		103	6"	ESPRESSO	
CARPET	·	·	'			·
CPT-1	-	-	-		-	
CEILING	·	·	'	·		·
ACT-1	ARMSTRONG	CALLA LAY-IN CEILING TILES W/15/16 PRELUDE 'XL'		2'x2'		
ACT-E	-			2'X2'		TO MACH EXISTING CORRIDOR
GLAZING	•			'		
GL-1		LAMINATED TEMPERED GLAZING				DOOR TRANSOM
PAINT				•	•	
PT-1	-		-		-	INTERIOR FIELD PAINT
PT-2	-		-		-	INTERIOR ACCENT PAINT
PT-3	-		-		-	INTERIOR ACCENT PAINT
PT-4	-		-		-	INTERIOR ACCENT PAINT
RESILIENT FLOO	ORING	•	'			·
RSF-1	-	-	-		-	
RSF-E	-	-	-		-	TO MATCH EXISTING CORRIDOR

MATERIAL (N	<u>ITL)</u>	
AL EX GL HM SS STL WD	ALUMINUM EXISTING GLASS HOLLOW METAL STAINLESS STEEL STEEL WOOD	
<u>FINISH</u>		
FF PT CLR ANO PLAM	FACTORY FINISH PAINT (AS SCHEDULED) CLEAR ANODIZED ALUMINUM PLASTIC LAMINATE	
	OORS ARE UNDERCUT 5/8". PROVIDE 3/4" UNDERCUT AT ALL TOILET BEKEEPING (HK), SOILED UTILITY AND LOCKER ROOM DOORS.	San Rafael City
	LAZING (GL-1) IN DOORS AND SIDELITE/TRANSOM GLAZING TO BE GLASS, U.O.N.	Schools
		SAN RAFAE CITY SCHO
PANEL	TYPES	CIT SCHO
	PANEL TYPE ————————————————————————————————————	310 Nova Albion Way, San Rafael, 94903 SRCS District
FRAME	TYPES	Office - Busines Services & Cap



FRAME TYPES





310 Nova Albion Way, San Rafael, CA 94903

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Documents

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Schedules

MECHANICAL NOTES & SPECIFICATIONS

CODES AND REGULATIONS, INCLUDING:

- THESE DRAWINGS & NOTES SHALL BE READ IN CONJUNCTION WITH & BE CONSIDERED TO BE PART OF A SEPARATE & COMPLETE MECHANICAL SPECIFICATION.
- 2. ENTIRE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF ALL APPLICABLE
- 2.1. 2022 CALIFORNIA BUILDING CODE (CBC) CCR TITLE 24 PART 2
- 2022 CALIFORNIA ELECTRICAL CODE (CEC) CCR TITLE 24 PART 3 2022 CALIFORNIA MECHANICAL CODE (CMC) - CCR TITLE 24 PART 4

2022 CALIFORNIA EXISTING BUILDING CODE - CCR TITLE 24 PART 10

- 2022 CALIFORNIA PLUMBING CODE (CPC) CCR TITLE 24 PART 5 2022 CALIFORNIA FIRE CODE (CFC) - CCR TITLE 24 PART 9
- 2022 CALIFORNIA GREEN BUILDING (CGB) STANDARD
- 2.8. 2022 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS
- 3. CONTRACTOR SHALL OBTAIN & PAY FOR ALL REQUIRED FEES, PERMITS & INSPECTIONS.
- 4. COORDINATE ENTIRE INSTALLATION OF THE HVAC SYSTEM(S) WITH THE WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. PROVIDE ALL FITTINGS, OFFSETS, AND TRANSITIONS FOR A COMPLETE AND WORKABLE INSTALLATION. COORDINATE ITEMS TO BE PROVIDED BY OTHER TRADES WHERE MENTIONED IN THE CONTRACT DOCUMENTS PRIOR TO BID - NO EXCEPTIONS. PROVIDE A COMPLETE WORKING SYSTEM PER CONTRACT DOCUMENTS.
- 5. COORDINATE ALL WORK WITH THE ARCHITECTURAL, STRUCTURAL DRAWINGS AND DRAWINGS OF OTHER TRADES. INSTALL ALL WORK TO CLEAR NEW AND EXISTING ARCHITECTURAL WORK, STRUCTURAL MEMBERS AND WORK OF OTHER TRADES. NO ITEM SUCH AS PIPE, DUCT, ETC. SHALL BE IN CONTACT WITH ANY EQUIPMENT. ANY ERRORS, OMISSIONS, DISCREPANCIES, DEFICIENCIES, OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR, THE ARCHITECT AND THE ENGINEER PRIOR TO PROCEEDING WITH ANY AFFECTED WORK.
- 6. COORDINATE THE LOCATION OF ALL ROOF OPENINGS & THE LOCATION OF ALL ROOF MOUNTED EQUIPMENT WITH THE STRUCTURAL & ARCHITECTURAL PLANS PRIOR TO ANY FABRICATION & INSTALLATION.
- 7. PLATFORMS, CURBS, AND FLASHING FOR MECHANICAL EQUIPMENT IS INDICATED ON THE STRUCTURAL AND ARCHITECTURAL PLANS, UNLESS NOTED OTHERWISE. WHERE THERE IS A CONFLICT WITH THE MECHANICAL PLANS, NOTIFY THE ARCHITECT AND ENGINEER PRIOR TO FABRICATION AND INSTALLATION.
- 8. COORDINATE THE LOCATIONS OF ALL CEILING DIFFUSERS, REGISTERS, AND GRILLES WITH THE ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL LIGHTING LAYOUT, FIRE SPRINKLER SYSTEM, AND ARCHITECTURAL ROOM ELEVATIONS. THE ARCHITECT AND ENGINEER SHALL BE IMMEDIATELY NOTIFIED OF ANY CONFLICTS PRIOR TO FABRICATION AND INSTALLATION.
- EQUIPMENT, DUCTS, PIPING, & OTHER DEVICES & MATERIALS INSTALLED OUTSIDE OF THE BUILDING OR OTHERWISE EXPOSED TO THE WEATHER SHALL BE COMPLETELY WEATHER PROOFED & PAINTED TO MATCH. COORDINATE WITH ARCHITECT PRIOR TO
- VERIFY ALL CLEARANCES & AVAILABLE SPACE FOR DUCTWORK PRIOR TO ORDERING AND/OR FABRICATION.
- 11. DIMENSIONS SHOWN ON THESE PLANS ARE APPROXIMATE AND MUST BE CONFIRMED ON SITE AND/OR PER ARCHITECTURAL DRAWINGS. ANY SCALE NOTATIONS ARE TO BE VERIFIED PRIOR TO ANY TAKE-OFF.
- 12. PRIOR TO OCCUPANCY THE ENTIRE HVAC SYSTEMS SHALL BE BALANCED BY AN INDEPENDENT AIR BALANCE CONTRACTOR FOR AIR IN ACCORDANCE AND PROCEDURES WITH (AABC) ASSOCIATED AIR BALANCE COUNCIL STANDARDS, (NEBB) NATIONAL ENVIRONMENTAL BALANCING BUREAU . OR (TABB) TESTING ADJUSTING AND BALANCING BUREAU. SYSTEMS SHALL BE BALANCED AS INDICATED ON PLANS INCLUDING OUTSIDE AIR VENTILATION. FINAL BALANCING SHALL BE WITHIN 10% FOR SUPPLY, RETURN AND OUTSIDE AIR QUANTITIES INDICATED. WHERE THERE IS A CONFLICT IN PLANS. NOTIFY THE ENGINEER PRIOR TO BALANCING OF SYSTEM. IF NOT DONE SO THE ENTIRE SYSTEM MUST BE RE-BALANCED DUE TO CONFLICTS ON CONTRACT DOCUMENTS. PROVIDE A COPY OF THE AIR BALANCE REPORT TO THE ENGINEER FOR REVIEW. PROVIDE PROCEDURES AND REPORTING PER CAL GREEN CODES SECTION 5.410.4.3, SECTION 5.410.4.3.1 AND SECTION 5.410.4.4.
- 13. CONTROLS CONTRACTOR & AIR BALANCE CONTRACTOR TO COORDINATE WORK & PERFORM NECESSARY TASKS TO OBTAIN AIR FLOW QUANTITIES FOR SYSTEMS SHOWN HEREIN.
- 14. PROVIDE TO BUILDING OWNER, PER CGB SEC. 5.410.4.5, AND CMC SEC 514.0, OPERATING PROCEDURES FOR THE USE, INSPECTION, TESTING, AND MAINTENANCE OF EQUIPMENT MANUAL INCLUDING INSPECTION AND REPORTS.
- 15. ADHESIVES, SEALANTS AND CAULKING SHALL BE COMPLIANT WITH LOW VOC OR OTHER TOXIC COMPOUND LIMITS SET BY (R) 4.504.2 AND/OR (NR)5.504.4.
- 16. NONRESIDENTIAL (NR) VOLUNTARY MEASURE: CONTRACTOR TO PROVIDE FLUSH-OUT PER GREEN POINT RATING REQUIREMENTS SECTION A5.504.1.1 & A5.505.1.2 INCLUDING TEMPORARY BLOWER.
- 17. PROVIDE OPERATING PROCEDURES FOR COOKING EQUIPMENT PER CMC SEC. 514.1.
- EQUIPMENT, ACCESSORIES AND RELATED PIPING SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL FITTINGS, TRANSITIONS, DAMPERS, VALVES, AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
- 19. MAINTENANCE LABEL SHALL BE AFFIXED TO ALL MECHANICAL EQUIPMENT AND A MAINTENANCE MANUAL SHALL BE PROVIDED FOR THE OWNER'S USE. LABEL SHALL IDENTIFY THE UNIT DESIGNATION PER PLANS AND THE SPACE IT SERVES.
- 19.1. EQUIPMENT: 4-1/2"X1-1/2" ENGRAVED PLASTIC-LAMINATED SIGN WITH 1/2" WHITE LETTERS ON BLACK BACKGROUND.
- 19.2. PIPING: SELF-STICKING PIPE MARKERS CONSISTING OF PIPE SERVICE WORDING AND ARROW INDICATING DIRECTION OF FLOW ON ANSI COLOR BACKGROUND. MAXIMUM SPACING OF 50 FEET APART. SECURE MARKER WITH 2-1/4" WIDE SELF-STICKING CLEAR TAPE AROUND PERIPHERY OF MARKER.
- 20. PROVIDE MANUAL VOLUME DAMPERS AND BACKDRAFT DAMPERS FOR OUTSIDE AIR INTAKES ON ALL AIR HANDLING EQUIPMENT AND EXHAUST FANS SERVING CONDITIONED SPACES. EXCEPTION: EQUIPMENT WITH FACTORY AIR ECONOMIZERS.
- 21. OUTSIDE AIR INTAKES SHALL MEET AS A MINIMUM CODE REQUIRED CLEARANCES FROM EXHAUST, FLUE, FUEL BURNING APPLIANCES AND PLUMBING VENT OUTLETS. FOR GAS/ELECTRIC AIR CONDITIONING UNITS WHERE THE CODE REQUIRED CLEARANCES ARE NOT MET, A FACTORY FLUE GAS DEFLECTOR AND EXTENSION SHALL BE USED TO MINIMIZE THESE CLEARANCES.
- 22. ALL HVAC EQUIPMENT SERVING NORMALLY OCCUPIED SPACES HAVING OVER 10' OF DUCT SHALL HAVE MINIMUM MERV13 FILTERS UNLESS OTHERWISE NOTED. DOES NOT INCLUDE EXHAUST SYSTEMS.
- 23. AIR FILTERS SHALL BE STATE FIRE MARSHALL APPROVED & LISTED, PREFORMED FILTERS HAVING COMBUSTIBLE FRAMING SHALL BE TESTED AS A COMPLETE ASSEMBLY. INSTALLED FILTERS SHALL BE CLEARLY LABELED BY THE MANUFACTURER INDICATING THE MERV RATING, & THE FILTER SPECIFICATION SHALL BE INCLUDED IN THE OPERATION & MAINTENANCE MANUAL. AIR FILTERS SHALL BE ACCESSIBLE FOR CLEANING OR REPLACEMENT.
- 24. EQUIPMENT WITH MOVING PARTS, FIXED OR FLEXIBLY MOUNTED, SHALL BE PROVIDED WITH FLEXIBLE DUCT & PIPE CONNECTIONS & SHALL BE BRACED OR ANCHORED.
- 25. HVAC EQUIPMENT SHALL BE CERTIFIED BY THE CALIFORNIA ENERGY COMMISSION TO COMPLY WITH THE LATEST EFFICIENCY STANDARDS.
- 26. AC UNITS PROVIDED WITH ECONOMIZER CYCLE DAMPERS SHALL HAVE DAMPERS SET UP TO CLOSE AUTOMATICALLY ON FAN SHUTDOWN. DAMPERS SHALL NOT USE LINKAGE ARRANGEMENT BUT RATHER DIRECT DRIVE ACTUATORS.
- 27. AIR HANDLING EQUIPMENT SERVING CONDITIONED SPACES SHALL PROVIDE CONTINUOUS OUTSIDE AIR TO SPACES IN OCCUPIED MODE. CONTROLS SHALL BE PROVIDED TO PROVIDE THE MINIMUM RATE OF OUTDOOR AIR REQUIRED BY THE STATE ENERGY REGULATIONS.

- 28. CONTRACTOR TO SUBMIT ALL EQUIPMENT, DUCTWORK, AIR DISTRIBUTION DEVICES, & OTHER ACCESSORIES TO THE ENGINEER FOR APPROVAL PRIOR TO ANY ORDERING OF SUCH ITEMS.
- 29. CONTROL AND POWER WIRING DIAGRAMS DETAILS ARE DIAGRAMMATIC ONLY. REFER TO ELECTRICAL DRAWING FOR PROPER POWER WIRING DIAGRAM. SUBMIT CONTROL DRAWINGS FOR APPROVAL. IT IS THE CONTRACTORS RESPONSIBILITY TO OBTAIN CONTROL DRAWINGS FROM UNIT MANUFACTURERS FOR PROPER WIRING AND OPERATION TO COMPLY WITH CONTROL SEQUENCE.
- 30. LINE VOLTAGE WIRING SHALL BE INSTALLED IN CONDUIT. ALL LINE VOLTAGE CONDUIT AND WIRING, INCLUDING FINAL CONNECTIONS, SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AS INDICATED ON THE ELECTRICAL DRAWINGS OR SPECIFIED IN THE ELECTRICAL SECTION OF THE SPECIFICATIONS. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS OF GOVERNING BODIES HAVING JURISDICTION THEREOF.
- 31. LOW VOLTAGE CONDUIT & WIRING AS APPLICABLE, INCLUDING FINAL CONNECTIONS, SHALL BE FURNISHED & INSTALLED BY THE MECHANICAL CONTRACTOR AS INDICATED ON THE MECHANICAL DRAWINGS OR SPECIFIED IN THE MECHANICAL SECTION OF THE
- 32. LOW VOLTAGE WIRING SHALL BE IN CONDUIT. PLENUM RATED WIRING INSTALLED IN CEILING SPACE, WHEN APPROVED BY SCHOOL DISTRICT, IS ACCEPTABLE.
- 33. ELECTRICAL CONTRACTOR TO PROVIDE REQUIRED RELAY ACCESSORIES FOR CONNECTION OF 120V/1Ø VENTILATION EQUIPMENT TO 277V/1Ø LIGHTING AS APPLICABLE.
- 34. NOTE USED
- 35. THERMOSTATS SHALL HAVE LOCKABLE COVERS (WHERE INDICATED ON PLANS) & SHALL BE OF THE ELECTRONIC, PROGRAMMABLE, AUTOMATIC CHANGEOVER TYPE TO SEQUENCE HEATING OR COOLING. SET POINT RANGE SHALL BE 10F° BETWEEN FULL HEATING & COOLING. THEY SHALL HAVE CAPABILITY OF TERMINATING ALL HEATING AT A TEMPERATURE NO MORE THAN 70°F, & COOLING AT A TEMPERATURE NOT LESS 78°F. ADJUSTABLE TEMPERATURE DIFFERENTIAL SHALL BE 1 SHALL BE FROM 55°F TO 85°F. MOUNT TOP OF BOX AT NO MORE THAN 42 INCHES ABOVE FLOOR TO MEET LOCAL ADA REQUIREMENT. IN ADDITION, THERMOSTAT(S) SHALL HAVE THE CAPABILITY TO CONNECT & RESPOND TO AN OCCUPANT CONTROLLED DEMAND RESPONSE SIGNAL OR PROVIDE SIGNAL FOR RESETTING OF ROOM SETPOINTS.
- 36. THERMOSTATS THAT ARE PART OF AN ENERGY MANAGEMENT SYSTEM SHALL FOLLOW CONTROL SPECIFICATIONS AND DRAWING REQUIREMENTS.
- 37. LINE VOLTAGE THERMOSTATS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- 38. AT THE TIME OF ROUGH INSPECTION & DURING STORAGE ON THE CONSTRUCTION SITE & UNTIL FINAL STARTUP OF THE HEATING, COOLING & VENTILATION OF THE HEATING OF THE ALL DUCT & OTHER RELATED AIR DISTRIBUTION COMPONENTS, OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS TO REDUCE THE AMOUNT OF DEBRIS WHICH MAY COLLECT IN THE SYSTEM. PROVIDE POLLUTANT CONTROL PER CAL GREEN 2019 CODES SECTION 5.504.1-4 FOR TEMPORARY VENTILATION, COVERING OF DUCT OPENINGS & PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION, & USE OF LOW VOC SEALANTS
- 39. ALL SUPPLY, RETURN AND EXHAUST DUCT JOINTS SHALL BE SEALED PER CMC CHAPTER 6 REQUIREMENTS. SEAL CLASS A.
- 40. DUCTWORK CONSTRUCTION SHALL MEET THE FOLLOWING SYSTEM PRESSURE REQUIREMENTS: 40.1. ALL OTHER DUCTWORK - 2 INCH WATER COLUMN
- 41. DUCTWORK CONSTRUCTION SHALL BE INSTALLED & SEALED TO MEET THE REQUIREMENTS OF CMC SECS 601.0. 602.0. 603.0. 605.0: & ANSI, SMACNA HVAC DUCT CONSTRUCTION STANDARDS METAL & FLEXIBLE. DUCTWORK & ACCESSORIES WILL BE INSTALLED IN ACCORDANCE WITH NFPA 90A, NFPA 90B, ASHRAE HANDBOOK, & SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL & FLEXIBLE, UL 181 CERTIFIED & THE CMC & THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AS APPLICABLE. MOUNTING & SUPPORTING OF EQUIPMENT, DUCTS, ACCESSORIES, & APPURTENANCES SHALL BE PROVIDED, INCLUDING STRUCTURAL SUPPORTS, HANGERS, STANDS, CLAMPS & BRACKETS. NEW RECTANGULAR DUCTWORK SHALL BE SHEET METAL CONSTRUCTED OR SPIRAL ROUND.
- 42. WHERE OPENINGS HAVE BEEN MADE IN WALLS, FLOORS, OR CEILINGS FOR THE PASSAGE OF DUCTWORK OR PIPES, SUCH OPENINGS SHALL BE CLOSED AND PROTECTED BY THE INSTALLATION OF APPROVED METAL COLLARS SECURELY FASTENED TO THE ADJOINING STRUCTURE, ALL IN ACCORDANCE WITH CMC 316.11.
- 43. ALL FLEXIBLE DUCT SHALL NOT EXCEED FIVE FEET IN LENGTH TO RESPECTIVE DIFFUSERS, GRILLES, OR OTHER AIR DEVICES. FLEX DUCT SHALL NOT BE USED IN LIEU OF RIGID ELBOWS OR FITTINGS PER CMC SEC. 603.4.1. FLEXIBLE DUCT MAY BE USED AS AN ELBOW AT A TERMINAL DEVICE USING 'FLEX RIGHT' FOR SIZES 4" TO 16".
- 44. LIMIT USE OF PERMANENT HVAC SYSTEMS DURING CONSTRUCTION TO CONDITIONING NECESSARY FOR MATERIAL & EQUIPMENT INSTALLATION. IF PERMANENT HVAC IS USED DURING CONSTRUCTION, INSTALL MERV-8 FILTERS ON RETURNS, & REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY, OR, IF THE BUILDING IS OCCUPIED DURING ALTERATION, AT THE CONCLUSION OF CONSTRUCTION.
- 45. PROVIDE SEISMIC RESTRAINTS TO ALL DUCTWORK, PIPE, AND EQUIPMENT SUPPORTS IN ACCORDANCE WITH THE OSHPD (HCAI) PRE-APPROVED OPM# FOR SEISMIC RESTRAINT OF MECHANICAL SYSTEMS. SUSPENDED EQUIPMENT SHALL BE PROVIDED WITH SEISMIC ANCHORAGE AND ISOLATION SUPPORTS.
- 46. WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OR THE FIELD REPRESENTATIVE OF THE DIVISION OF THE STATE ARCHITECT.
- 47. RECTANGULAR DUCT TURNS IN SUPPLY, RETURN, AND EXHAUST DUCTS SHALL HAVE TURNING VANES UNLESS OTHERWISE NOTED, OR SHALL HAVE A INNER RADIUS TURN OF NO LESS THAN THE WIDTH OF THE DUCT.
- 48. DUCTWORK HANDLING CONDITIONED AIR SHALL BE INSULATED OR LINED TO MEET CMC 605. INTERIOR DUCTWORK SHALL BE INSULATED WITH A NON-FIBROUS MATERIAL, R=4.2. ALL SUPPLY AND RETURN DUCTWORK EXPOSED TO WEATHER OR IN UNCONDITIONED SPACE SHALL BE INTERNALLY LINED WITH 2" THICK DUCT (R-8.0) LINER UNLESS OTHERWISE INDICATED OR SPECIFIED. ALL DUCT SIZES INDICATED ON PLANS ARE NET INSIDE DIMENSIONS. ALL INSULATION SHALL HAVE A FLAME SPREAD OF NOT MORE THAN 25 AND A SMOKE DENSITY NOT EXCEEDING 50. ALL DUCT INSULATION SHALL COMPLY WITH 2022 BEES SECTION 120.4(A).
- 49. MANUAL VOLUME DAMPERS SHALL BE PROVIDED IN ALL DUCT BRANCHES TO INDIVIDUAL DIFFUSERS. GRILLES. AND REGISTERS. AS WELL AS OUTSIDE AIR INTAKE DUCTS. DAMPERS SHALL BE LOCATED AT THE BRANCH DUCT LOCATIONS. COORDINATE LOCATIONS OF DAMPERS WITH THE AIR BALANCING CONTRACTOR PRIOR TO BID, SO AS TO ENSURE ACCESSIBILITY AFTER INSTALLATION. IN LOCATIONS WHERE THESE DAMPERS ARE INACCESSIBLE, CABLE OPERATED ADJUSTMENT CONTROLS SHALL BE PROVIDED AT NO ADDITIONAL COST. OPPOSED BLADE DAMPERS SHALL NOT BE PERMITTED UNLESS OTHERWISE NOTED.
- 50. FOR AIR MOVING EQUIPMENT HAVING MORE THAN 2000 CFM SHALL HAVE DUCT SMOKE DETECTOR, BUT ARE NOT REQUIRED PER 2022 CMC 609.0 EXCEPTION WHERE ALL AREAS SERVED BY SAID EQUIPMENT HAS DIRECT EGRESS WITHIN 100 FEET.
- 51. FOR INACCESSIBLE AREAS PROVIDE ACCESS PANELS FOR ALL DAMPERS, EQUIPMENT, SMOKE DETECTORS, & CONTROL DEVICES. THESE PANELS SHALL MATCH THE RATING OF THE WALL AND/OR CEILING THAT THEY ARE LOCATED IN. MINIMUM ACCESS PANEL SIZES SHALL BE 12"x12" FOR HAND ACCESS & 30"x30" MINIMUM FOR BODY ACCESS. WHERE A LARGER ACCESS PANEL IS REQUIRED DUE TO INSTALLATION CONSTRAINTS OR EQUIPMENT SIZE, DO SO AT NO ADDITIONAL COST & SHALL OBTAIN PRIOR APPROVAL FROM THE ARCHITECT, ENGINEER & DSA.
- 52. REMOVE ALL LEFT OVER DUCTWORK SCRAPS, ETC. (IF ANY) AND LEAVE PREMISES

CLEAN AND FREE OF ANY TRASH OR DEBRIS DUE TO THEIR WORK.

- 53. INSULATED PIPES SHALL CONFORM TO 2022 BUILDING ENERGY EFFICIENCY STANDARDS SECTION 120.3, TABLE 120.3-A. INSULATED PIPE EXPOSED TO WEATHER SHALL BE COVERED WITH E-FLEX GUARD MANUFACTURED BY AIREX MFGR INC.
- 54. DUCTS & PIPES THAT PASS THROUGH BUILDING EXPANSION JOINTS SHALL INCORPORATE A FLEXIBLE CROSS OVER. FOR DUCTS THAT SHALL CONSIST OF A MINIMUM OF 6-8" LONG FLEX CONNECTOR EXTENDING THROUGH THE FULL SEISMIC JOINT. FOR PIPING A FLEXIBLE JOINT EITHER AS MANUFACTURED BY METRAFLEX (OR EQUAL) OR A FLEXIBLE PIPE JOINT OF SUFFICIENT LENGTH & NUMBER OF ELBOWS (4 MIN) TO ALLEVIATE STRESS ON PIPE TO ACCOMMODATE DIFFERENTIAL BUILDING
- 5. MECHANICAL EQUIPMENT MOUNTED ON ROOF SHALL BE LOCATED ON A WELL DRAINED SURFACE OF THE ROOF. AT LEAST 6 FEET OF CLEARANCE SHALL BE AVAILABLE BETWEEN ANY PART OF THE EQUIPMENT & THE EDGE OF A ROOF OR SIMILAR HAZARD; OR RIGIDLY FIXED RAILS, GUARDS, PARAPETS, OR OTHER BUILDING STRUCTURES AT LEAST 42 INCHES IN HEIGHT SHALL BE PROVIDED ON THE EXPOSED
- 56. MECHANICAL, LIGHTING CONTROL, ENVELOPE AND PROCESS EQUIPMENT REQUIRING ACCEPTANCE TESTING SHALL BE PROVIDED BY CERTIFIED TECHNICIANS. SEE SHEET MECHANICAL TITLE 24 SHEETS FOR MECHANICAL ACCEPTANCE TESTING REQUIREMENT.
- 57. DUCT SIZE INDICATED ON PLANS ARE THE INSIDE DIMENSION

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING

Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-16 Section 13.3 as defined in ASCE 7-16 Sections 13.6.5. 13.6.6, 13.6.7, 13.6.8; and 2022 CBC Sections 1617A.1.24, 1617A.1.25 and 1617A.1.26

The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. When bracing and attachments are based on a pre-approved installation guide (e.g., HCAI OPM for 2013 CBC or later), 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.

Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP), Electrical Distribution Systems (E):

MP[x] MD[x] PP[] E[] Option 1: Detailed on the approved drawings and project specific notes

MP[] MD[] PP[] E[] Option 2: Shall comply with the HCAI Preapproval (OPM#);(I.E. OPM 0052-13 B-Line, OPM#-0043-13 Mason Industries Inc., and OPM#-0203-13 M.W. Saussé & Co. Inc.).

M/E/P COMPONENT ANCHORAGE NOTE

All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSA-Approved Construction Documents. The following components shall be anchored or braced to meet the force and displacement requirements prescribed in 2022 CBC, Sections 1617A.1.18 through 1617A.1.26 and ASCE 7-16 Chapters 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, gas or water. "permanently attached" shall include all electrical connections except plugs for 110/220 volt receptacles having a flexible cable.
- 3. Temporary, movable or mobile equipment which is heavier than 400 pounds or has a center of mass located 4 feet or more above the adjacent floor or roof level that directly support the component are required to be restrained in a manner approved by DSA.
- The following mechanical and electrical components shall be positively attached to the structure, but need not demonstrate design compliance with the references noted above. These components shall have flexible connections provided between the component and associated ductwork, piping, and conduit. Flexible connections must allow movement in both transfers and longitudinal directions:
- 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 distributed systems, less than 5 pounds per foot, which are suspended from a roof or floor or hung from a wall.

The anchorage of all mechanical, electrical and plumbing components shall be subject to the approval of the design professional in general responsible charge or structural engineer delegated responsibility and acceptance by DSA. The project inspector will verify that all components and equipment have been anchored in accordance with the above requirements.

	IVIECHA	ANICAL LEGEND
SYMBOL	ABBREVIATION	DESCRIPTION
	AFF	ABOVE FINISHED FLOOR
	AL	ACOUSTICALLY LINED
	AP	ACCESS PANEL
	OA	OUTSIDE AIR
	RA	RETURN AIR
	SA	SUPPLY AIR
	TA	TRANSFER AIR
	BOD	BOTTOM OF DUCT
	CFM	CUBIC FEET PER MINUTE
O	BDD	DAMPER: BACKDRAFT
	FD	DAMPER: FIRE
	FSD	DAMPER: FIRE/SMOKE
	MVD	DAMPER: MANUAL VOLUME
		DIAMETER
	DN	DOWN
	DS	DISCONNECT SWITCH
<u>S</u>	DSD	DUCT SMOKE DETECTOR
	EER	ENERGY EFFICIENCY RATIO
	(E)	EXISTING
	F	FAN
	FLA	FULL LOAD AMPS
	HP	HORSEPOWER
	MCA	MINIMUM CIRCUIT AMPACITY
	MOP	MAXIMUM OVERCURRENT PROTECTION
	MS	MOTOR STARTER
	RL	REFRIGERANT LIQUID
	RS	REFRIGERANT SUCTION
	P.E.	POWER EXHAUST
	SEER	SEASONAL EER
	SAD	SEE ARCHITECTURAL DRAWING
	SSD	SEE STRUCTURAL DRAWING
<u> </u>	332	
<u>(S)</u>		REMOTE SENSOR: TEMPERATURE
<u>©</u>		REMOTE SENSOR: CARBON DIOXIDE
<u>(T)</u>	TVD	THERMOSTAT @ +48" A.F.F
	TYP	TYPICAL
	UON	UNLESS OTHERWISE NOTED
	WT	WEIGHT
	24x12	RECTANGULAR DUCT - INCHES
	12"	ROUND DUCT - INCHES
		WIRING AND CONDUIT BY ELECTRICAL CONTRACTOR.
		CONDUIT, WIRING AND FINAL CONNECTION BY MECHANICAL OR CONTROL CONTRACTO
E		FURNISHED AND INSTALLED BY ELECTRICA CONTRACTOR.
M		FURNISHED AND INSTALLED BY MECHANICATION OR CONTROL CONTRACTOR

MECHANICAL LEGEND

SUBSTITUTION OF MATERIALS

- 1 | EQUALS: THE DESIGN HAS BEEN BASED ON THE MANUFACTURER'S NAME AND PRODUCT LISTED ON THE DRAWINGS. OTHER MANUFACTURER'S NAMES LISTED IN THE SPECIFICATIONS MAY BE SELECTED AND CONSIDERED 'AS EQUAL' FOR QUALITY ONLY. HOWEVER, THEY MUST MATCH THE PERFORMANCE, CONSTRUCTION, FIT AND FEATURES OF THOSE SELECTED FOR DESIGN. THE ACCEPTANCE OF THESE DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR PROVIDING THE REQUIRED MATERIALS AND PROVIDING A WORKABLE SYSTEM. THOSE ITEMS NOTED AS 'NO SUBSTITUTIONS' SHALL BE FURNISHED WHEN SPECIFIED.
- 2 TO SUBSTITUTE EQUIPMENT OR MATERIAL OTHER THAN THOSE CONSIDERED FOR THE BASIS OF DESIGN, SUBMIT INFORMATION AS CALLED FOR IN THE 'REQUEST FOR SUBSTITUTION' SPECIFICATIONS AND SUBMIT REQUIRED INFORMATION FOR BOTH THE SPECIFIED OR SCHEDULED ITEM AND THE SUBSTITUTE ITEM. THESE SUBMITTALS MUST SHOW THAT BOTH THE SPECIFIED AND THE SUBSTITUTE MATERIAL MATCH IN QUALITY, PERFORMANCE, CONSTRUCTION, FIT AND FEATURES OF THOSE SELECTED FOR DESIGN. ANY EQUIPMENT OR MATERIAL SUBMITTED FOR SUBSTITUTION WITHOUT THE COMPARISON INFORMATION WILL NOT BE REVIEWED OR ACCEPTABLE.
- 3 | LIABILITY OF SUBSTITUTIONS: PERFORMANCE OF SUBSTITUTIONS MUST BE EQUAL TO THE ITEM SPECIFIED. SHOULD THE SUBSTITUTED ITEM FAIL TO PERFORM ACCORDING TO SPECIFICATIONS, REPLACE WITH THE ORIGINALLY SPECIFIED ITEM WITHOUT EXTRA COMPENSATION ON REQUEST OF THE ARCHITECT ANY TIME WITHIN THE GUARANTEE PERIOD.

San Rafael City

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Project Number

Mechanical Notes and Legend



DUCTLESS SPLIT FAN COIL & HEAT PUMP SCHEDULE EXISTING OUTDOOR UNIT INDOOR UNIT RATED **ANCHORAGE** OPER WEIGHT ANCHORAGE DETAIL COOLING **HEATING** "MITSUBISHI" **ELECT** SEER2/ DETAIL WEIGHT (LBS) **TAG** CAPACITY **SERVES SERVES MODEL** MOP (V/φ/HZ) CAPACITY EER2 MODEL (DETAIL #/SHEET (DETAIL #/SHEET #) KBTU/H EXEC. ASS. SLZ-KF12NA FC-1.2 ASS. SUPER. SLZ-KF12NA 0.3 208/1/60 MXZ-5C42NA4 SLZ-KF12NA 3 / M0.02 SLZ-KF15NA FC-2.1 BOND OFFICE MXZ-5C42NA4 SLZ-KF09NA SLZ-KF09NA OFFICE

ACCESSORIES: CP - CONDENSATE PUMP

IS - 3-POLE ISOLATION SWITCH MOUNTED NEXT TO WALL MOUNTED FAN COIL UNIT

LS - RECTORSEAL SLIM DUCT LINESET COVER AND WALL CAP FOR REFRIGERANT PIPING EXPOSED TO WEATHER AND IN SPACES.

24V - BACNET INTERFACE FOR CONNECTION TO ALERTON NETWORK (SEE DETAIL 8 THIS SHEET)

1. INDOOR UNIT POWERED BY OUTDOOR UNIT

FANS (EXISTING)

,	E	BASIS OF DESIGN		AIR FLOW		ELECT	TRICAL	SOUND POWER	WEIGHT	ANCHORAGE DETAIL	
TAG	MANUF.	MODEL	TYPE	(SCFM)	ESP (" WC)	HP/ (WATT)	VOLTS/PH/HZ	(DB)	(LBS)	(DETAIL/SHEET)	REMARKS
(E) SF-1	GREENHECK	KSQ-12-M2-VG	ROOF	1500	1.0	1	208/3/60	65	47		

AIR DISTRIBUTION

	STYLE	MFR	MODEL NO	APPLICATION	DESCRIPTION	INSTALLATION NOTES	
	A	TITUS	TDC	T-BAR CEILING SUPPLY DIFFUSER	LOUVERED FACE, ROUND NECK, 4 WAY (U.O.N), WHITE FINISH	WITH SEISMIC CLIP	
•			С	NECK EILING DIFFUSER: 1224— FACE SIDEWALL F 300A — TYPE ————————————————————————————————————	NECK REGISTER: 12X24 300A — TYPE CFM		

(E) OUTDOOR UNIT SEE PLAN FOR REFRIGERANT LINES POC TYP KF12NA.TH KF09NA.TH KF12NA.TH KF12NA.TH KF09NA.TH KF15NA.TH EXEC. ASS. CONFERENCE BOND OFFICE DIRECTOR OFFICE ASS. SUPER. FC1.1 FC1.2 FC2.2 FC2.3 FC2.1 WORLD WIDE WEB INTERNET OWNER-FURNISHED FACILITIES HQ ETHERNET WAN

> ----- | KEF. PIPE PIPING AND CONTROLS
> SYMBOL LIQUID PIPE/GAS PIPE SIZE SYMBOL MODEL NUMBER PAC-YT53CRAU-J PAC-UKPRC001-CN-1 Diamond System Builder sw: 5.2.1.5 db: 5.2.1.4 1/30/2024

> > 8517 Earhart Rd, Suite 230 Oakland, CA 94621 510-569-2000

> > > San Francisco, California 94104 USA

San Rafael City

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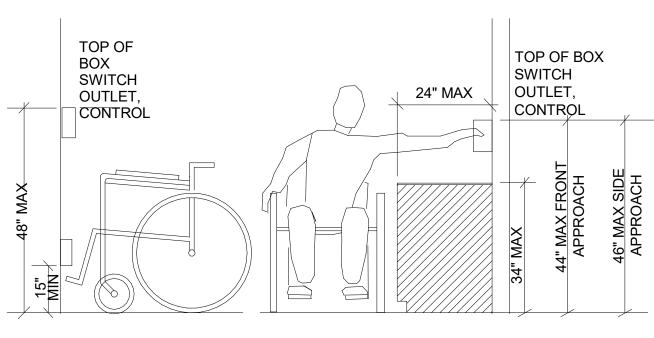
(415) 981-2345 WWW.HED.DESIGN

Project Number

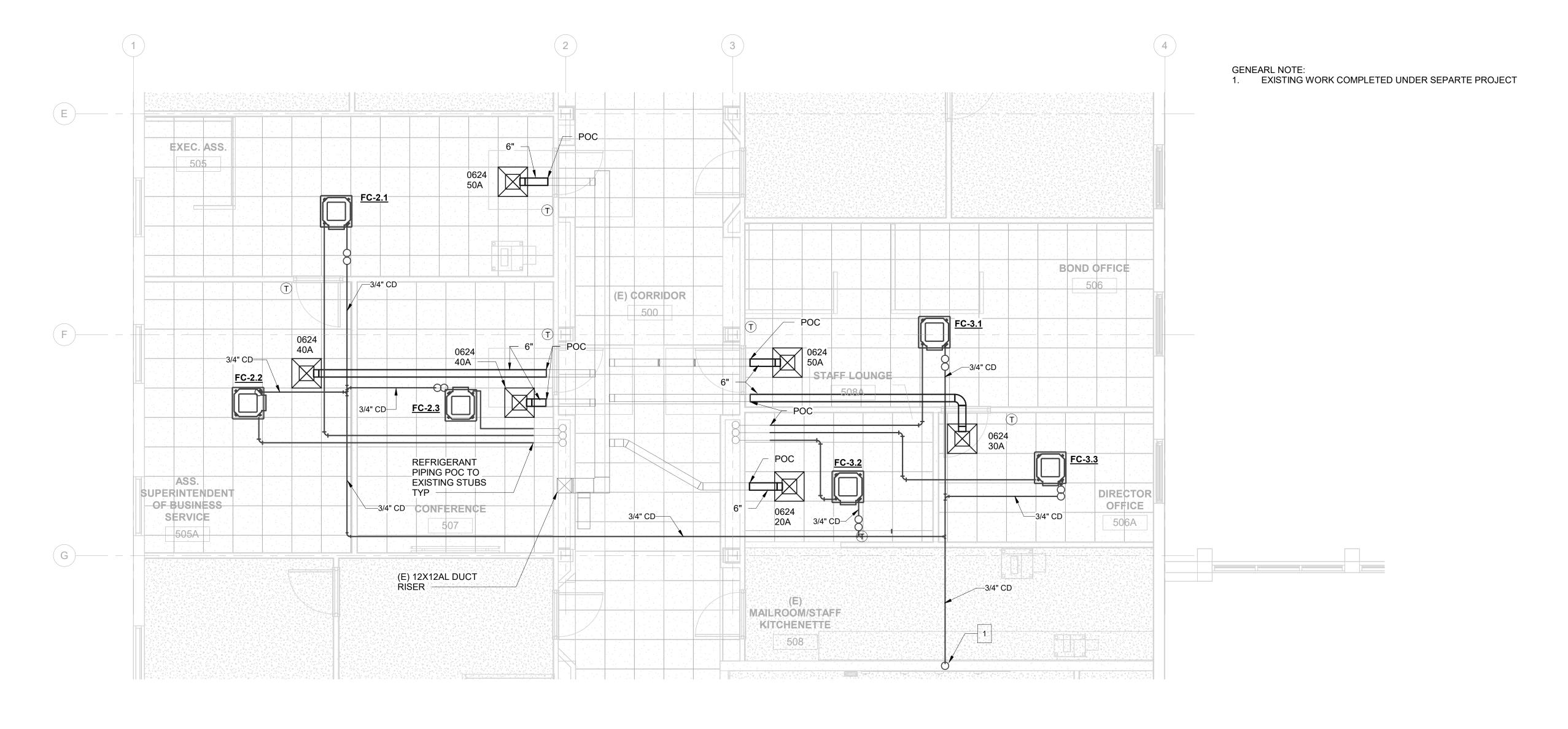
Mechanical Schedules and **Details**

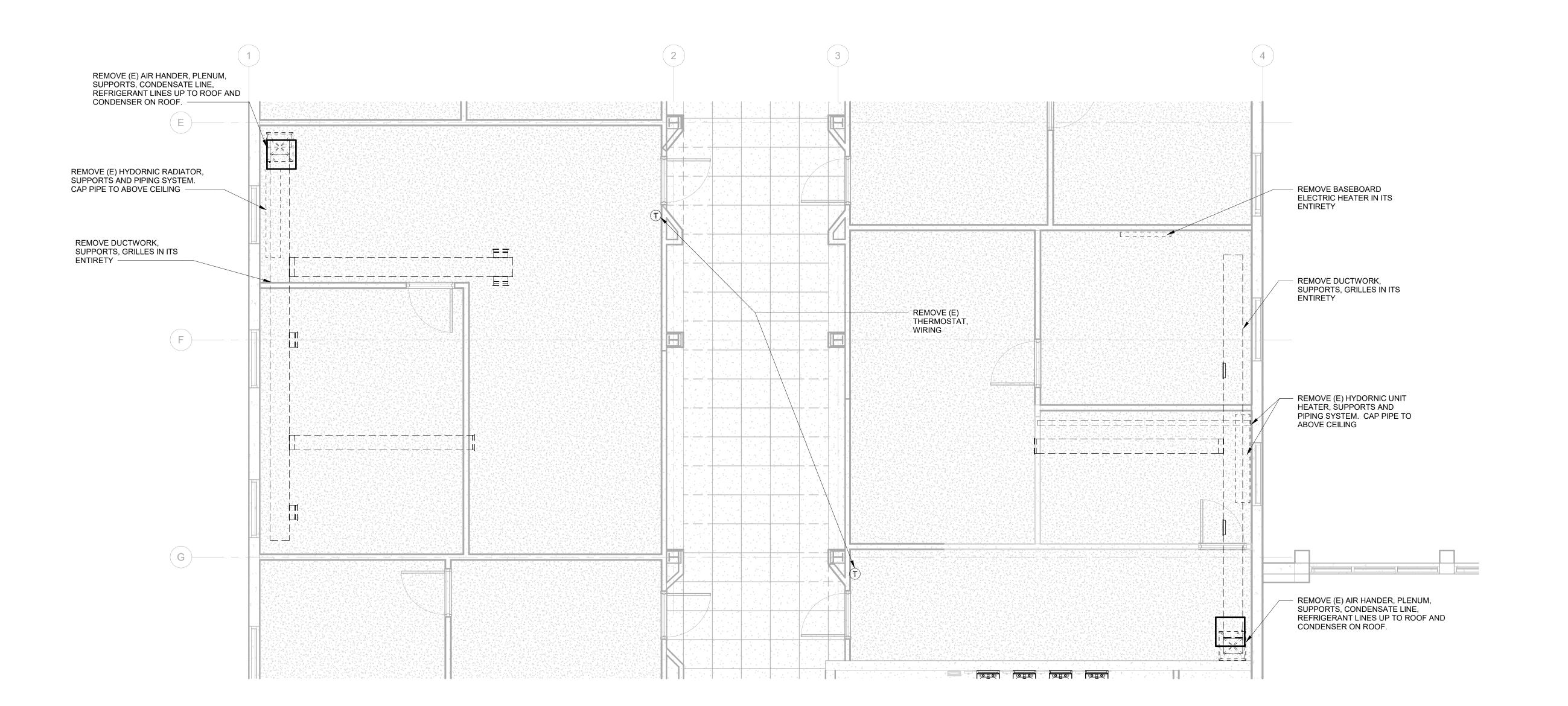
SPLIT SYSTEM DIAGRAM SCALE: N.T.S 7 SCALE: N.T.S (E) CONCRETE FOR ATTACHMENT TO STRUCTURAL FLOOR DECK S.A.D DETAIL 10/A-574 $\frac{1}{8}$ " DIA. PRE-STRETCHED WIRE ROPE S.A.D DETAIL 10/A-574 — P1000 ROD STIFFENER PER ROD - 3/8" ALL THREADED ROD CEILING CASSETTE GYMSUM CEILILNG, PROVIDE 18X18 ACCESS PANELL AT CONTROL BOX SIDE, 6" FROM UNIT 1ST FLOOR SUPPORT FROM FLOOR ASSEMBLY BETWEEN 2ND AND 1ST FLOOR CEILING MOUNT FAN COIL DETAIL SCALE: N.T.S 3 SCALE: N.T.S 2 SCALE: N.T.S 4

NOTES:
ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL BE LOCATED NO MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE RECEPTACLE OUTLET BOX NOR LESS THAN 15 INCHES MEASURED FROM THE BOTTOM OF THE RECEPTACLE OUTLET BOX TO THE LEVEL OF THE FINISHED FLOOR OR WORKING PLATFORM. IF THE REACH IS OVER A PHYSICAL BARRIER OR AN OBSTRUCTION (FOR EXAMPLE, A KITCHEN BASE CABINET), RECEPTACLES SHALL BE LOCATED WITHIN THE REACH RANGES SPECIFIED IN SECTION 1138A.3. PHYSICAL BARRIERS AND OBSTRUCTIONS SHALL NOT EXTEND MORE THAN 25 INCHES FROM THE WALL BENEATH THE RECEPTACLE. 2016 CBC §1136A.1 (2016 CBC §11B-308.11 & 11B-308.1.2).



CONTROL DEVICE ADA MOUNTING HT. SCALE: N.T.S 6





MECHANICAL DEMO - BUSINESS
SERVICES & FACILITIES
1/4" = 1'-0"

Mechanical - 1st Floor Plans

Project Number

MECHANICAL NEW - BUSINESS SERVICE

& FACILITIES

1/4" = 1'-0"

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Office - Business Services & Capital Facilities

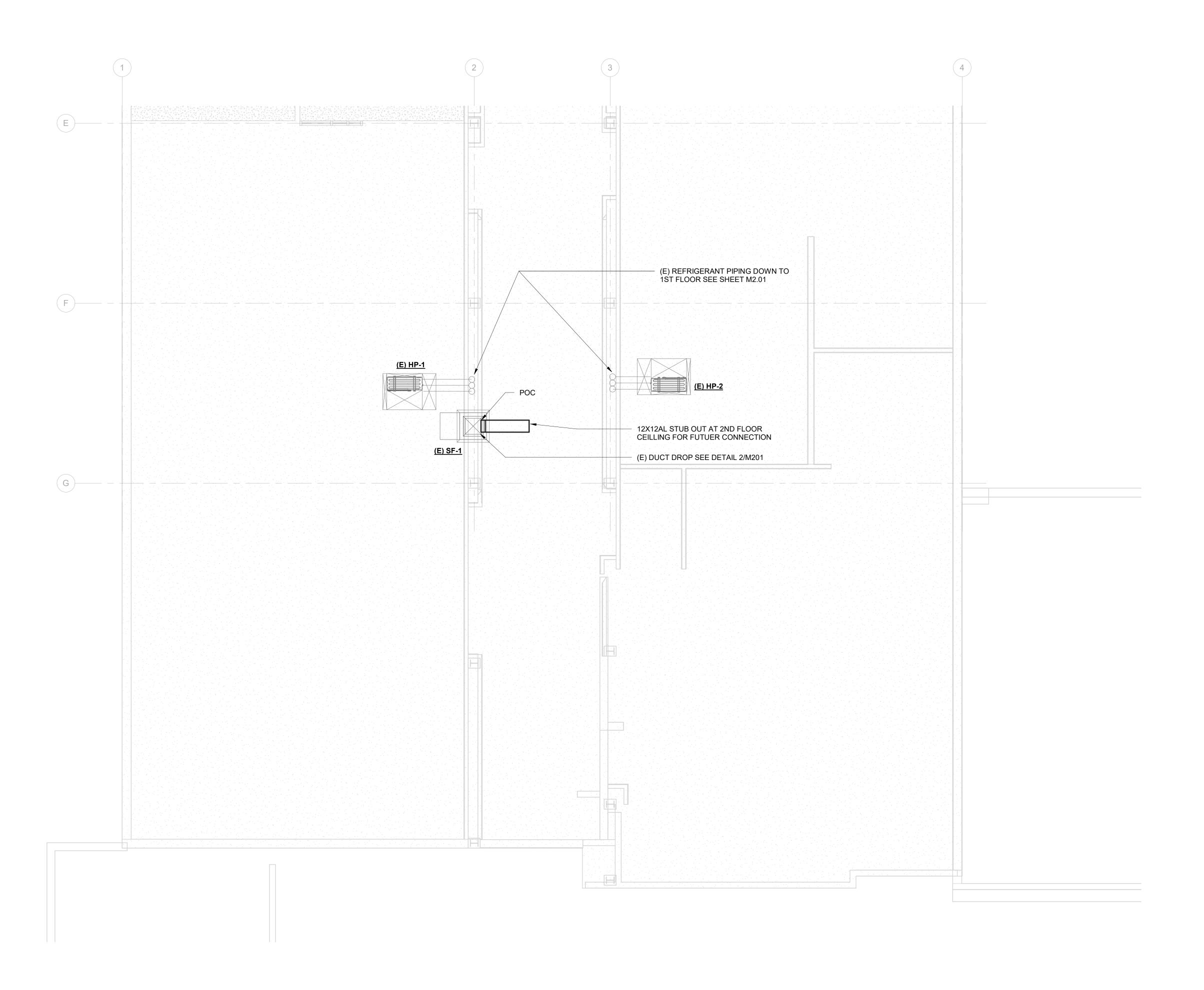
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12/20/23 50% Construction
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MECHANICAL GROUP 8517 Earhart Rd, Suite 230 Oakland, CA 94621 510-569-2000



Project Number

Mechanical -Roof Plan

ANCHORAGE NOTES

ELECTRICAL ANCHORAGE NOTES:

ALL ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16, CHAPTER 13, 26, AND 30.

- 1. ALL PERMANENT EQUIPMENT AND COMPONENTS. 2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT
- RECEPTACLES HAVING A FLEXIBLE CABLE. 3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY

THE FOLLOWING ELECTRICAL COMPONENTS SHALL BE BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.

- A. COMPONENT WEIGHING LESS THAN 400 POUNDS AND HAVING 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 DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM WALL.

THE ANCHORAGE OF ALL ELECTRICAL COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:

ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (eg., OSHPD OPM FOR 2013 CBC OR LATER), 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.

ELECTRICAL DISTRIBUTION SYSTEMS ARE: [X] - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. [] - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #).

ALL LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURE. A MINIMUM OF TWO SCREWS OR APPROVED FASTENERS ARE REQUIRED

AT EACH LIGHT FIXTURE, PER ASTM E580, SECTION 5.3.1. SURFACE-MOUNTED LIGHT FIXTURES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES. THE CLAMPING DEVICE SHALL COMPLETELY SURROUND THE SUPPORTING CEILING RUNNER AND BE MADE OF STEEL WITH A MINIMUM THICKNESS OF #14 GAGE. ROTATIONAL SPRING CATCHES DO NOT COMPLY. A #12 GAGE SLACK SAFETY WIRE SHALL BE CONNECTED FROM EACH CLAMPING DEVICE TO THE STRUCTURE ABOVE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE EIGHT (8) FEET OR LONGER OR EXCEED 56 LB. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED EIGHT (8) FEET.

LIGHT FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 LB. SHALL HAVE A MINIMUM OF ONE (1) #12 GAGE SLACK SAFETY WIRE CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE. LIGHT FIXTURES WEIGHING GREATER THAN 10 LB. BUT LESS THAN OR EQUAL TO 56 LBS. MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS. BUT THEY SHALL HAVE A MINIMUM OF TWO (2) #12 GAGE SLACK SAFETY WIRES CONNECTED FROM THE FIXTURE HOUSING AT DIAGONAL CORNERS TO THE STRUCTURE ABOVE. EXCEPTION: ALL LIGHT FIXTURES GREATER THAN TWO BY FOUR FEET WEIGHING LESS THAN 56 LBS. SHALL HAVE A #12 GAGE SLACK SAFETY WIRE AT EACH CORNER.

ALL LIGHT FIXTURES WEIGHING GREATER THAN 56 LB. SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT #12 GAGE HANGER WIRES (ONE AT EACH CORNER) ATTACHED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS. THE FOUR (4) TAUT #12 GAGE WIRES OR OTHER APPROVED HANGERS, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, SHALL BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE FIXTURE.

GENERAL DEMOLITION NOTES

- THE CONTRACTOR SHALL VERIFY IN THE FIELD ALL LINES, LEVELS, DIMENSIONS AND EXISTING CONDITIONS. THE INFORMATION ON THE DRAWINGS REGARDING EXISTING ELECTRICAL EQUIPMENT AND BRANCH CIRCUITS IS THE RESULT OF FIELD SURVEY AND IS ACCURATE TO THE BEST OF OUR KNOWLEDGE. IT IS INTENDED. HOWEVER, AS A GUIDE FOR USE IN VERIFICATION ONLY.
- ANY EXISTING ELECTRICAL EQUIPMENT IN THE AREA OF NEW CONSTRUCTION NOT SHOWN ON THE EXISTING PLANS SHALL BE DOCUMENTED AND SUBMITTED TO THE ENGINEER FOR DETERMINATION OF ACTION REQUIRED.
- WHEREVER THE REMOVAL OF EXISTING ELECTRICAL EQUIPMENT IS CALLED FOR AND ALL EQUIPMENT ON A PARTICULAR BRANCH CIRCUIT IS TO BE REMOVED, ALL CONDUIT AND WIRE BACK TO THE PANEL SHALL BE ENTIRELY REMOVED AND THE CIRCUIT IN PANEL SHALL BE MARKED "SPARE". THIS APPLIES TO SIGNAL AND COMMUNICATIONS SYSTEMS EQUIPMENT, CONDUIT, AND WIRE AS
- WHEREVER THE REMOVAL OF EXISTING ELECTRICAL EQUIPMENT IS CALLED FOR AND ALL EQUIPMENT ON A PARTICULAR BRANCH CIRCUIT IS NOT TO BE REMOVED, THE CIRCUIT SHALL BE MAINTAINED CONTINUOUS TO THE EXISTING EQUIPMENT IN USE WITH MINIMUM INTERRUPTIONS OF POWER. THIS APPLIES TO SIGNAL AND COMMUNICATIONS SYSTEMS EQUIPMENT, CONDUIT, AND WIRE AS WELL.
- WHENEVER THE REMOVAL OF EXISTING CONSTRUCTION REVEALS ELECTRICAL WORK THAT IS TO REMAIN, BUT IS IN CONFLICT WITH NEW CONSTRUCTION, RELOCATE THE EXISTING ELECTRICAL WORK AS NECESSARY TO AVOID ANY CONFLICT. RELOCATION WORK SHALL BE DONE TO MINIMIZE ANY INTERRUPTIONS OF
- CARE SHALL BE TAKEN IN ORDER TO IDENTIFY AND PROTECT ALL EXISTING ELECTRICAL WORK THAT IS TO REMAIN.
- ENSURE RECONNECTION OF EXISTING DEVICES WHOSE CIRCUITS HAVE BEEN INTERRUPTED BY DEMOLITION BY PROVIDING NEW CONNECTION TO ANOTHER EXISTING TO REMAIN DEVICE OR
- ALL EXISTING ELECTRICAL EQUIPMENT SHOWN ON THE PLANS FOR NEW WORK ARE THOSE WHICH ARE TO BE REUSED DURING SOME PHASE OF THE NEW CONSTRUCTION OR REQUIRE SOME SPECIAL CONSIDERATIONS.
- WHENEVER THE REMOVAL OF EXISTING ELECTRICAL PANELBOARDS ARE CALLED FOR AND ALL EXISTING BRANCH CIRCUITS ARE NOT TO BE REMOVED, THE EXISTING BRANCH CIRCUITS SHALL BE CONNECTED TO OTHER EXISTING ELECTRICAL EQUIPMENT OR PANELS STILL IN USE WITH MINIMUM INTERRUPTIONS OF POWER. ALSO, IF REQUIRED, THESE SAME BRANCH CIRCUITS SHALL BE RECONNECTED TO RELOCATED EXISTING OR NEW PANELBOARDS AS PART OF THE NEW CONSTRUCTION. THIS APPLIES TO SIGNAL AND COMMUNICATIONS SYSTEMS EQUIPMENT, CONDUIT AND WIRE AS WELL.
- 10. THE ELECTRICAL CONTRACTOR SHALL REVISE EXISTING PANEL SCHEDULES TO CORRESPOND TO ACTUAL CONDITIONS AFTER ALL DEMOLITION AND NEW WORK IS COMPLETED.
- 11. REMOVE ALL ABANDONED CONDUIT AND WIRE ABOVE CEILINGS. 12. WHEN ELECTRICAL EQUIPMENT OR DEVICE IS REMOVED FROM AN EXISTING WALL OR CEILING WHICH IS TO REMAIN, PATCH ABANDONED OPENINGS TO MATCH EXISTING FINISH.
- 13. IN GENERAL, THE DEMOLITION PLANS SHOW ALL EXISTING EQUIPMENT THAT IS TO BE REMOVED UNLESS NOTED OTHERWISE. HOWEVER, ELECTRICAL EQUIPMENT, WHETHER SHOWN ON THIS DRAWING OR NOT, WHERE LOCATED IN THE AREA SCHEDULED TO BE DEMOLISHED. SHALL BE REMOVED COMPLETELY (INCLUDING CONDUIT AND WIRES BACK TO THE LAST REMAINING FIXTURE, OUTLET, DEVICE, ETC.) UNLESS OTHERWISE NOTED. COORDINATE DEMOLITION WORK WITH ARCHITECT AND GENERAL CONTRACTOR.
- 14. EXISTING CONDUIT FEEDS UP THROUGH FLOOR SHALL BE CUT OFF AND PLUGGED FLUSH WITH FLOOR WHERE EXISTING WALLS, ETC., ARE REMOVED. REMOVE CONDUCTORS FROM THE POINT BACK TO LAST OUTLET REMAINING IN SERVICE.
- 15. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO MAINTAIN CONTINUITY OF ALL ELECTRICAL SYSTEMS, EQUIPMENT. ETC. REMAINING IN OPERATION WHICH IS BEING FED BY AN ABANDONED OUTLET. MAINTAINING CONTINUITY SHALL CONSIST OF REROUTING OF CONDUIT, WIRE, ETC. AS REQUIRED.
- 16. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF EXISTING CIRCUITS AND ADJUST CIRCUIT NUMBERS ACCORDING TO EXISTING CONDITIONS IF REQUIRED
- 17. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO REMOVAL OF EXISTING ELECTRICAL EQUIPMENT AND TURN OVER REMOVED EQUIPMENT THAT THE OWNER REQUESTS, IN AS-FOUND CONDITION. EQUIPMENT THAT IS TO BE TURNED OVER SHALL BE BOXED AND TAGGED TO IDENTIFY THE SPECIFIC EQUIPMENT. EQUIPMENT TO BE TEMPORARILY REMOVED DUE TO THE CONSTRUCTION SHALL BE CLEANED AND RE-INSTALLED IN ITS ORIGINAL CONDITION OR AS REQUIRED.
- 8. WHERE EXISTING WALLS HAVE BEEN REMOVED, AND THERE ARE EXISTING CONDUIT FEEDS WHICH HAVE BEEN CUT OFF AND CAPPED FLUSH WITH THE FLOOR, IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND DIMENSION ALL SUCH CONDUITS ON THE "AS-BUILT" DRAWINGS.
- 19. IF ANY EQUIPMENT THAT IS SCHEDULED TO REMAIN IN OPERATION IS DAMAGED BY THE CONTRACTOR, IT SHALL BE REPLACED TO ITS ORIGINAL CONDITION SATISFACTORY TO THE OWNER AT CONTRACTOR'S EXPENSE.

ABBREVIATIONS

- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- C CONDUIT
- CATV CABLE TV
- CB CIRCUIT BREAKER
- CO CONDUIT ONLY
- DP DISTRIBUTION PANEL
- E.C. ELECTRICAL CONTRACTOR
- E.G.C. EQUIPMENT GROUNDING CONDUCTOR EM EMERGENCY
- EMS ENERGY MANAGEMENT SYSTEM
- EQPT EQUIPMENT
- EXT EXTERIOR
- (E) EXISTING
- (ER) EXISTING EQUIPMENT TO BE RELOCATED
- (EX) EXISTING EQUIPMENT TO BE DEMOLISHED
- FA FIRE ALARM
- FMC FLEXIBLE METALLIC CONDUIT
- FO FIBER OPTIC
- FTL FEED THROUGH LUGS G.E.C. GROUNDING ELECTRODE CONDUCTOR
- GFI GROUND FAULT CIRCUIT INTERRUPTING TYPE RECEPTACLE
- INV INVERTER, EM LIGHTING OR PHOTOVOLTAIC.
- IDF INTERMEDIATE DISTRIBUTION FRAME
- LOCKABLE
- LTG LIGHTING LV LOW VOLTAGE
- MC METAL CLAD CABLING
- MCB MAIN CIRCUIT BREAKER
- MDF MAIN DISTRIBUTION FRAME
- MFGR MANUFACTURER MLO MAIN LUGS ONLY
- MTD MOUNTED
- N.E.C. NATIONAL ELECTRICAL CODE NEU NEUTRAL
- NIEC NOT IN ELECTRICAL CONTRACT
- OAH OVERALL HEIGHT
- OFCI OWNER FURNISHED, CONTRACTOR INSTALLED
- INDICATES FIXTURES ON PHOTOCELL CONTROL
- PA PUBLIC ADDRESS PNL PANEL
- S.A.D. <u>SEE</u> ARCHITECTURAL DRAWINGS
- SIG SIGNAL SYSTEM
- SPD SURGE PROTECTION DEVICE
- STC SIGNAL TERMINAL CABINET
- SWBD SWITCHBOARD
- TELE TELEPHONE
- UFER CONCRETE ENCASED CU G.E.C. UON UNLESS OTHERWISE NOTED
- UG UNDERGROUND
- VAV VAV BOX, <u>SEE</u> MECHANICAL DIVISION DRAWINGS FOR LOCATIONS. PROVIDE TOGGLE TYPE DISCONNECT SWITCH.
- WP WEATHER PROOF, NEMA 3R. EQUALS "WHILE IN USE" TYPE WHEN APPLIED TO EXTERIOR POWER RECEPTACLES
- XFMR TRANSFORMER

GENERAL ELECTRICAL NOTES

THE CONTRACTOR SHALL PAY FOR ALL REQUIRED PERMITS AND INSPECTION FEES.

SPECIFIED IN MECHANICAL DIVISION U.O.N.

CONDUIT.

- 2. THE CONTRACTOR SHALL VERIFY ALL CRITICAL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
- 23. ALL EXIT SIGNS SHALL COMPLY WITH THE RELEVANT PORTIONS OF
- SECTIONS 1008 AND 1013 OF THE CBC. 24. ALL MECHANICAL DIVISION EQUIPMENT LOW VOLTAGE CONTROL

WIRING AND RACEWAY SHALL BE PROVIDED AND INSTALLED AS

5. COORDINATE INSTALLATION OF ALL RECESSED LUMINAIRE(S) WITH

MECHANICAL DIVISION PRIOR TO INSTALLATION OF HVAC DUCTS

LUMINAIRE(S) THAT THERE IS NO CONTACT BETWEEN DUCTS AND

AND SPRINKLER HEADS. ENSURE AFTER INSTALLATION OF

RECESSED LUMINAIRE CONNECTIONS, AND CONNECTIONS

CONNECTIONS TO "CRITICAL EQUIPMENT" AS DEFINED IN

BETWEEN TWO SEPARATE STRUCTURES AND FOR ALL FINAL

SPECIFICATIONS. MINIMUM 1/2" DIAMETER, LIQUID TIGHT TYPE

USED OUTDOORS AND IN ALL WET LOCATIONS; PROVIDE WITH

CODE-SIZE (MINIMUM #12) BARE GROUND WIRE IN ALL FLEXIBLE

PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR ALL BRANCH

CIRCUITS FEEDING OUTLETS AS NOTED ON THE DRAWINGS.

8. FOR FLUSH MOUNTED PANELBOARDS THE CONTRACTOR SHALL STUB A MINIMUM OF FOUR (4) 3/4" CONDUITS FROM THE PANEL UP

INTO THE ACCESSIBLE CEILING ABOVE FOR FUTURE CIRCUITS.

9. ALL CONDUIT CONNECTORS TO OUTLET OR JUNCTION BOXES

SHALL HAVE INSULATED THROATS (MANUFACTURED AS AN

0. ALL CIRCUITS IN ALL JUNCTION BOXES AND DEVICES SHALL BE

EQUIVALENT. TO IDENTIFY THE CIRCUIT NUMBER OR RELAY

CLEARLY IDENTIFIED BY MEANS OF "EZ" NUMBERING TAGS OR

SUPPLYING THE CONDUCTOR. ALL JUNCTION BOXES SHALL BE

ALL SURFACE MOUNTED POWER AND SIGNAL BOXES IN FINISHED

AREAS SHALL BE "WIREMOLD" TYPE, WITH MATCHING RACEWAYS.

BOXES, PANEL COVERS, AND RELATED FITTINGS OR ACCESSORIES

INSTALLED IN FINISHED AREAS (BOTH INTERIOR AND EXTERIOR)

THEY ARE MOUNTED TO (AFTER INSTALLATION). PAINTING SHALL

INCLUDE DIFFERENT COLORS AS REQUIRED TO MATCH EXISTING

EQUIPMENT IS ATTACHED AND VISIBLE. VERIFY EXACT JUNCTION

BOX LOCATION(S) AND ROUTING OF EXPOSED RACEWAYS WITH

3. PROVIDE A BLANK COVER PLATE (COLOR TO MATCH ADJACENT

RECEPTACLES: RECEPTACLES LOCATED IN "WET" LOCATIONS

PROVIDED AND INSTALLED: RECEPTACLES LOCATED IN "DAMP"

LOCATIONS SHALL HAVE "IN-USE" TYPE WEATHERPROOF COVER

5. TWO OR THREE DIFFERENT PHASES SUPPLIED BY A 3-PHASE PANEL

MAY SHARE A SINGLE NEUTRAL ONLY IF CIRCUIT POSITIONS ARE

ADJACENT IN THE PANEL. PROVIDE COMMON HANDLE-TIE ON BREAKERS FOR MULTI-WIRE BRANCH CIRCUITS, WITH COMMON

PLATES IN LOCATIONS DEEMED TO BE "IN-USE" WITH CORD AND

SHALL HAVE "IN-USE" TYPE WEATHERPROOF COVER PLATES

4. FOR OUTDOOR 15 AND 20-AMPERE, 125 AND 250-VOLT

DEVICES OR AS SPECIFICALLY CALLED FOR IN SPECIFICATIONS)

FOR ALL JUNCTION BOXES (NEW AND EXISTING) ON THE PROJECT

SHALL BE FINISH PAINTED TO MATCH THE SURFACE TO WHICH

STRIPING OR OTHER BUILDING FEATURES TO WHICH THE

SURFACE MOUNTED STEEL JUNCTION BOXES AND/OR EMT ARE

2. ALL LOCATIONS OF BARE METAL SURFACE MOUNTED CONDUIT,

INTEGRAL PART OF THE CONNECTOR). AFTER-MARKET

INSERTABLE THROATS ARE NOT ACCEPTABLE.

LABELED PER SPECIFICATIONS.

THE ARCHITECT PRIOR TO ROUGH-IN.

WHEN NO DEVICE IS INSTALLED.

NEUTRAL, PER NEC REQUIREMENTS.

PLUG ATTACHED.

NOT ACCEPTABLE.

LUMINAIRE(S) TO AVOID VIBRATION IN LUMINAIRE(S).

26. USE FLEXIBLE CONDUIT FOR ALL MOTOR, TRANSFORMER,

WITH YELLOW STRIPE. TO ALL ISOLATED GROUND RECEPTACLES.

PREPARING THE BID.

- PROVIDE PULLROPE IN ALL EMPTY CONDUITS THROUGHOUT THE
- REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION & CONNECTION REQUIREMENTS OF ALL LUMINAIRE(S) AND ALL OUTLET, SWITCH, AND ELECTRICAL RELATED DEVICE MOUNTING HEIGHTS AND LOCATIONS. COORDINATE LOCATIONS OF ALL LUMINAIRE(S) AND JUNCTION BOXES WITH MECHANICAL DIVISION PRIOR TO ROUGH-IN. COORDINATE LOCATIONS OF ELECTRICAL DEVICES WITH FURNITURE PLANS PRIOR TO ROUGH-

GENERAL ELECTRICAL NOTES

ADEQUATELY DETERMINE ALL PRE-EXISTING CONDITIONS. BY THE

ACT OF SUBMITTING A BID, THE CONTRACTOR WILL BE DEEMED TO

CONDITIONS, AND TO HAVE MADE ALLOWANCES THEREFORE IN

PROVIDE PARITY SIZED GREEN GROUND WIRE IN ALL POWER

HOMERUNS. PROVIDE ADDITIONAL ISOLATED GROUND, GREEN

CONDUITS, BRANCH CIRCUITS (LIGHTING & POWER) AND

HAVE COMPLIED WITH THE FOREGOING, TO HAVE ACCEPTED SUCH

PRIOR TO BID THE CONTRACTOR SHALL VISIT THE SITE TO

- REFER TO MECHANICAL PLANS FOR EXACT LOCATION(S) OF ALL MECHANICAL EQUIPMENT, AND CONFIRM EXACT CONNECTION REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL DIVISION, PRIOR TO ROUGH-IN. VERIFY EXACT REQUIREMENTS FOR VOLTAGE, PHASE, HORSE-POWER, OR KVA RATINGS, OF ALL MECHANICAL DIVISION EQUIPMENT REQUIRING ELECTRICAL CONNECTION.
- VERIFY EXACT CONNECTION REQUIREMENTS, OUTLET TYPE(S), MOUNTING HEIGHT(S) AND LOCATION(S) OF ALL OWNER-SUPPLIED EQUIPMENT, AND ALL EQUIPMENT PROVIDED UNDER OTHER SECTIONS OF THE SPECIFICATIONS, PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL DRAWINGS FOR EQUIPMENT LOCATIONS.
- COORDINATE TRENCHING WITH OWNER AND OTHER TRADES BEFORE BEGINNING WORK.
- ALL CONDUIT PENETRATIONS THROUGH FIRE-RATED WALLS AND FLOORS SHALL BE SEALED AND EQUIPPED WITH U.L. LISTED FIRE PENETRATION ASSEMBLIES TO MAINTAIN FIRE SEPARATION
- DO NOT INSTALL ANY OUTLETS BACK TO BACK IN STUD WALLS OR DE-MOUNTABLE PARTITIONS.
-). THE CONTRACTOR SHALL VERIFY ALL CEILING TYPES BEFORE ORDERING OF LUMINAIRE(S). ALSO VERIFY THAT ALL FEATURES CALLED FOR IN LUMINAIRE DESCRIPTIONS ON THE LUMINAIRE SCHEDULE ARE INCLUDED WITH CATALOG NUMBERS LISTED ON THE LUMINAIRE SCHEDULE WHEN LUMINAIRE ORDERS ARE PLACED. AND ARE INCLUDED AS PART OF THE LIGHTING SUBMITTALS FOR THIS PROJECT. IF A DISCREPANCY EXISTS, CONTACT THE ARCHITECT AND ELECTRICAL ENGINEER FOR CLARIFICATION PRIOR TO BID.
- CIRCUITRY AND CONDUIT ROUTING SHOWN ON THE PLANS IS DIAGRAMMATIC ONLY. THIS CONTRACTOR IS RESPONSIBLE FOR BECOMING COMPLETELY FAMILIAR WITH THE ARCHITECTURAL AND STRUCTURAL CONDITIONS AND LIMITATIONS IN THE BUILDING AND TO PROVIDE ALL LABOR, TOOLS AND MATERIALS REQUIRED TO PRODUCE A COMPLETELY CONCEALED INSTALLATION WHEREVER INDICATED ON THE PLANS.
- 2. MAINTAIN "AS-BUILT" RECORDS AT ALL TIMES, SHOWING EXACT LOCATION OF ALL UNDERGROUND AND/OR CONCEALED CONDUITS AND SERVICES INSTALLED UNDER THIS CONTRACT, INCLUDING CIRCUIT IDENTIFICATION WHERE APPLICABLE. PROVIDE OWNER WITH "AS-BUILT" DOCUMENTS AS INDICATED IN THE SPECIFICATIONS, AND/OR CALLED FOR IN THE SPECIFICATIONS.
- 13. DRAWINGS INDICATE THE LOCATION(S) OF DEVICES, LUMINAIRE(S) AND EQUIPMENT, AND THE CIRCUIT NUMBER AND PANEL DESIGNATED TO SUPPLY THEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETELY CONNECTING ALL ELECTRICAL
- 4. UNLESS OTHERWISE NOTED, ALL WORK SHOWN ON DRAWINGS IS NEW AND TO BE PROVIDED AND INSTALLED COMPLETE UNDER THIS CONTRACT.

DEVICES TO CIRCUITS INDICATED ON THE DRAWINGS.

- 15. ALL EQUIPMENT GROUNDING SHALL CONFORM TO ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE, LATEST EDITION.
- 16. ALL EXTERIOR CONDUIT ABOVE GRADE, INCLUDING ALL ROOF MOUNTED CONDUIT, SHALL BE GALVANIZED RIGID STEEL. COAT ALL EXPOSED THREADS WITH GALVANIZING PAINT. PAINT ALL SURFACE MOUNTED RACEWAYS AND PULLBOXES TO MATCH
- SURROUNDING CONDITIONS, AS DIRECTED BY THE ARCHITECT. 7. ALL ELECTRICAL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE LATEST EDITION OF THE N.E.C., AS WELL AS STATE, AND LOCAL CODES AND REQUIREMENTS.
- 18. ALL CONDUIT SHALL BE CONCEALED, UNLESS OTHERWISE NOTED.
- 19. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE AVAILABLE SHORT CIRCUIT CURRENT AT THE MAIN SWITCHBOARD INCOMING TERMINALS WITH THE UTILITY COMPANY, AND TO VERIFY THAT ALL POWER AND SIGNAL SERVICE PROVISIONS, INCLUDING CONCRETE EQUIPMENT PADS, CONDUITS, PULLBOXES AND CLEARANCES, MEET THE UTILITY COMPANY'S REQUIREMENTS,
- PRIOR TO INSTALLATION. 20. EQUIPMENT OVERLOADS AND FUSES SHALL BE PROVIDED AND INSTALLED AS PER NAME PLATE ON THE EQUIPMENT ACTUALLY PROVIDED.

- SHEET INDEX GENERAL NOTES, LIST OF DRAWINGS
- ELECTRICAL SYMBOLS LIST LUMINAIRE SCHEDULE FLOOR PLAN - ELECTRICAL DEMOLITION FLOOR PLAN - LIGHTING
- FLOOR PLAN POWER & SIGNAL & MECH. POWER DETAILS

TITLE 24 DOCUMENTATION

San Rafael City

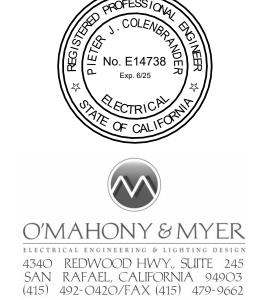


SRCS District

320 Nova Albion Way, San Rafael, CA

320 Nova Albion Way, San Rafael, CA

△ Date Issued For 1 12/20/23 50% Construction Documents



San Francisco, California

94104 USA

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WWW.HED.DESIGN

GENERAL NOTES, LIST OF

DRAWINGS

ELECTRICAL SYMBOLS LIST SECURITY SYSTEM DOOR CONTACT. PROVIDE 1/2" C.O. ROUGH-IN FROM NEAREST ACCESSIBLE CEILING AREA, TO DOOR FRAMING. PROVIDE 1" C.O. WITHIN ALL NON-ACCESSIBLE AREAS FOR WIRING AND DEVICE BY OTHERS. SECURITY SYSTEM CEILING MOUNT 360° MOTION DETECTOR. PROVIDE 1" C.O. WITHIN ALL NON-ACCESSIBLE AREAS FOR WIRING, DEVICE AND MOUNT, BY OTHERS SECURITY SYSTEM CEILING MOUNT GLASS BREAK DETECTOR. PROVIDE 1" C.O. WITHIN ALL NON-ACCESSIBLE AREAS FOR WIRING, DEVICE AND MOUNT, BY WALL MOUNTED SECURITY SYSTEM KEYPAD, UP 48" TO TOP OF BOX. PROVIDE 3/4" STUB-UP FROM WALL MOUNT LOCATION TO ACCESSIBLE CEILING SPACES, AND PROVIDE 1" C.O. WITHIN ALL NON-ACCESSIBLE AREAS FOR WIRING AND DEVICE BY OTHERS. PROJECT NUMBERED NOTE, OR SHEET NUMBERED, AS NOTED ON PLAN. COPPER GROUND ROD, 10' L x 3/4" Ø, SEE SPECS CIRCUIT BREAKER, INDICATES 100 AMP, 3 POLE M UTILITY METER CONDUCTOR LANDING LUGS —→ CONDUIT TURN DOWN —— CONDUIT TURN UP —→ CONTINUATION —— CONDUIT STUB (4004N) ELECTRICAL FEEDER TAG, PER COPPER FEEDER SCHEDULE MECHANICAL EQUIPMENT DESIGNATION, REFER TO MECHANICAL PLANS. **ELECTRICAL EQUIPMENT TAG:** PNL EQUIPMENT PREFIX "PNL", "DP", "SWBD", "XFMR", "FA", "IDF" LA EQUIPMENT NAME DETAIL OR SHEET REFERENCE CALLOUT. INDICATES DETAIL 1, SHEET E-0.1. WHEN ADJACENT EQUIPMENT, APPLIES TO EQUIPMENT IDENTIFIED ONLY. 1/E-001 DETAIL OR SHEET REFERENCE CALLOUT. INDICATES DETAIL TYP 1, SHEET E-0.1. WILLIAMS TYPICAL EQUIPMENT SERIES. 1, SHEET E-0.1. WHEN ADJACENT EQUIPMENT, APPLIES TO

BRANCH CIRCUIT NOMENCLATURE

LA1-1,3,5 1-POLE BRANCH CIRCUIT FOR MULTI CIRCUIT HOMERUNS

LA1-3 1-POLE BRANCH CIRCUIT TO CB

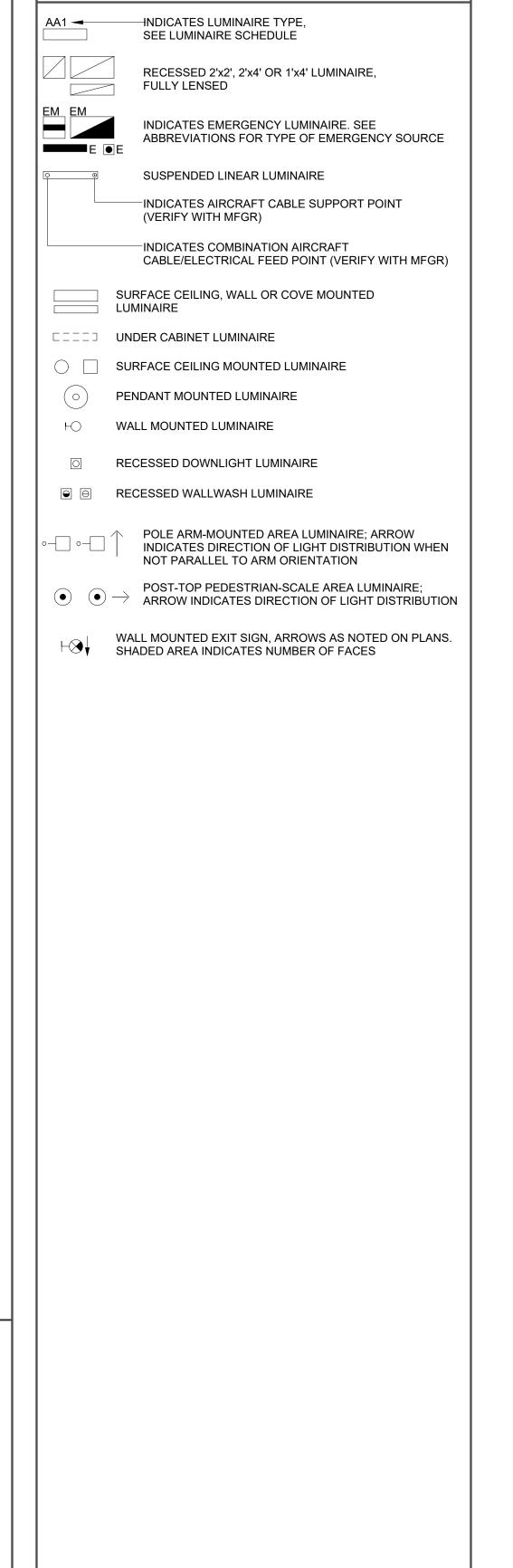
TO SEPARATE CB'S.

LA1-[1,3] 2-POLE BRANCH CIRCUIT TO COMMON CB

LA1-[1,3,5] 3-POLE BRANCH CIRCUIT TO COMMON CB

ELECTRICAL SYMBOLS LIST MAIN SWITCHBOARD, DISTRIBUTION PANEL, OR MOTOR MAIN SWITCHBOARD CONTROL CENTER SURFACE MOUNTED PANELBOARD OR EQUIPMENT AS NOTED ON DRAWINGS. 6' - 6" TO TOP ON DRAWINGS. 6' - 6" TO TOP. REQUIREMENTS. CONDUIT AND WIRE CONCEALED IN CEILING OR WALL ____ CONDUIT AND WIRE UNDERGROUND, OR CONCEALED — — ADJACENT FINISHES WITHIN FINISHED SPACES HOMERUN TO PANELBOARD OR TERMINAL BOARD, AS NOTED ON PLANS CROSSMARKS INDICATE QUANTITY OF #12 CONDUCTORS - GROUND WIRE WIRE SIZE 10 AWG FOR ALL CONDUCTORS, INCLUDING GROUND WIRE THROUGHOUT THE COMPLETE CIRCUIT INDICATES WEATHERPROOF. 20A 3PG 125V DUPLEX RECEPTACLE, MOUNTED ABOVE ⇒ 20A 3PG 125V DUPLEX RECEPTACLE, FLUSH CEILING SURFACE MOUNTED WIREMOLD RACEWAY WITH RECEPTACLES AS INDICATED ON PLANS SURFACE MOUNTED WIREMOLD RACEWAY RISER TERMINAL MOUNTING BACKBOARD, 3/4" PLYWOOD, DIMENSIONS AS NOTED ON PLANS, PAINT TO MATCH FIRE RATING LABEL ■ DATA OUTLET, WALL MOUNTED, UP 18" U.O.N. DATA OUTLET, WALL MOUNTED, MOUNTED ABOVE DATA OUTLET, FLUSH CEILING MOUNT. 'AP' - ACCESS POINT - PROJECTOR & SIGNAL SYSTEM CLOCK, UP 96" U.O.N. FLUSH WALL MOUNTED INDOOR PUBLIC ADDRESS SPEAKER, UP 96" U.O.N. © WP FLUSH WALL MOUNTED OUTDOOR PUBLIC ADDRESS SPEAKER - 'WP' INDICATES WEATHERPROOF FLOOR BOX ASSEMBLY, IN-SLAB. DOUBLE DUPLEX RECEPTACLE, AND DATA OUTLET. FIRE RATED POKE THRU ASSEMBLY FLOOR BOX LINE VOLTAGE MOTOR RATED SWITCH INSTALLED AT \$m EQUIPMENT SHOWN MOTOR DISCONNECT SWITCH, HORSEPOWER RATED, PLAN SPECIFIC DIMENSIONED SYMBOL, BASED ON INDUSTRY STANDARD FRAME SIZES - DIAGRAMAMTIC SYMBOL MOTOR DISCONNECT SWITCH, HORSEPOWER RATED, NON INDUSTRY STANDARD FRAME SIZES DIAGRAMAMTIC SYMBOL

LINE VOLTAGE SINGLE POLE TOGGLE SWITCH, LETTER ADJACENT INDICATES RESPECTIVE ZONE CONTROLLED, UP 48" U.O.N. \$2 LINE VOLTAGE TWO POLE TOGGLE SWITCH, UP 48" U.O.N. LINE VOLTAGE THREE-WAY TOGGLE SWITCH, UP 48" U.O.N. FLUSH MOUNTED PANELBOARD OR EQUIPMENT AS NOTED LINE VOLTAGE KEY OPERATED TOGGLE SWITCH PAD MOUNTED UTILITY TRANSFORMER, PER UTILITY CO. \$m LINE VOLTAGE MOTOR RATED TOGGLE SWITCH INSTALLED AT EQPT SHOWN LINE VOLTAGE TOGGLE SWITCH WITH PILOT LIGHT, LIGHT IS \$ P ON WHEN CIRCUIT IS CLOSED, UP 48" U.O.N. LOW VOLTAGE MOMENTARY CONTACT SWITCH - SEE LOW VOLTAGE RELAY SCHEDULE, LOWER CASE LETTER ADJACENT INDICATES RESPECTIVE ZONE CONTROLLED, UP CONDUIT AND WIRE RUN EXPOSED, PAINTED TO MATCH ALL LOW VOLTAGE KEYED MOMENTARY CONTACT SWITCH kS ab SEE LOW VOLTAGE RELAY SCHEDULE, LOWER CASE LETTER ADJACENT INDICATES RESPECTIVE ZONE CONTROLLED, UP 48" U.O.N. WALL MOUNTED SWITCH TYPE INFRARED OCCUPANCY PLUS PARITY SIZED GROUND CONDUCTOR. NO HASHMARKS SENSOR; UP 48" U.O.N.; SINGLE OR DUAL AS NOTED BY INDICATES (2) #12 PLUS PARITY SIZED GROUND CONDUCTOR. LETTERS ADJACENT. SET TO FIXED 20 MINUTE TIME DELAY AND MAX SENSITIVITY WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR; a DS b UP 48" U.O.N.; SINGLE OR DUAL AS NOTED BY LETTERS ADJACENT. SET TO FIXED 20 MINUTE TIME DELAY AND MAX 20A 3PG 125V DUPLEX RECEPTACLE, UP 18" U.O.N. - 'WP' 20A 3PG 125V DOUBLE DUPLEX RECEPTACLE, UP 18" U.O.N. OCCUPANCY SENSOR SWITCH; UP 48" U.O.N. CONTROLLED WALL MOUNTED SINGLE OR MULTI-ZONE DIGITAL DIMMER OF ZONES ASSIGNED TO THE DEVICE CEILING MOUNTED DUAL TECHNOLOGY DIGITAL OCCUPANCY SENSOR ADJACENT WALL SURFACE, MAINTAINING VISIBILITY OF UL SENSOR OCCUPANCY SENSOR SINGLE OR MULTI-ZONE SWITCHING OR DIMMING OPEN DEVICE. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN FLUSH WALL MOUNTED INDOOR PUBLIC ADDRESS SPEAKER DAYLIGHT CONTROL PHOTOCELL - BRACKET MOUNTED; NOTATIONS ADJACENT IDENTIFY DAYLIGHT ZONES TO ROUGH-IN FLUSH WALL MOUNTED SIGNAL SYSTEM CLOCK, UP +96" ROOM CONTROLLER FOR THE NUMBER OF CONTROLLED ZONES. PLUG LOAD ROOM CONTROLLER NETWORK BRIDGE NETWORK CABINET BR 1 SECONDARY WIRELESS BORDER ROUTER ISOLATED RELAY INTERFACE PLAN SPECIFIC DIMENSIONED SYMBOL, BASED ON EMERGENCY LIGHTING CONTROL MODULE OCCUPANCY SENSOR POWER PACK MOUNTED IN VARIABLE FREQUENCY DRIVE, FURNISHED BY MECHANICAL, CONCEALED ACCESSIBLE LOCATION INSTALLED AND CONNECTED COMPLETE BY ELECTRICAL.



ELECTRICAL SYMBOLS LIST

ALL SWITCH AND CONTROL MOUNTING HEIGHTS OF 48" SHALL BE TO

OF UP TO 18" SHALL BE NO LOWER THAN 15" TO BOTTOM OF THE

DEVICE BOX, TYPICAL, U.O.N.

TOP OF THE DEVICE BOX. ALL RECEPTACLES WITH MOUNTING HEIGHT

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WALL MOUNTED DIGITAL DUAL TECHNOLOGY DIMMING

WALL MOUNTED DIGITAL SWITCH, UP 48" U.O.N.; LOWER S a CASE LETTER ADJACENT INDICATES RESPECTIVE ZONE

ELECTRICAL SYMBOLS LIST

SWITCH, UP 48" U.O.N.; LOWER CASE LETTERS ADJACENT 2 D a,b INDICATE RESPECTIVE ZONES TO BE SIMULTANEOUSLY MANUALLY CONTROLLED; NUMERAL DESIGNATES NUMBER

WALL MOUNTED DUAL TECHNOLOGY DIGITAL OCCUPANCY

LOW VOLTAGE COLD TEMPERATURE PIR OCCUPANCY

CEILING MOUNTED LINE VOLTAGE DUAL TECHNOLOGY

LOOP DIGITAL DAYLIGHTING SENSOR; NOTATIONS ADJACENT IDENTIFY DAYLIGHT ZONES ASSIGNED TO THE

SINGLE ZONE SWITCHING OR DIMMING CLOSED LOOP DIGITAL DAYLIGHTING SENSOR: NOTATIONS ADJACENT IDENTIFY DAYLIGHT ZONES ASSIGNED TO THE DEVICE.

VERIFY EXACT LOCATION PRIOR TO ROUGH-IN

ASSIGNED TO THE DEVICE. VERIFY EXACT LOCATION PRIOR

| Z2 | INDICATES DAYLIGHT ZONE CONTROLLED VIA PHOTOCELL

- ADJACENT NUMERAL REFERS TO THE NUMBER OF ZONES RC 2 TO BE CONTROLLED. VENDOR OR CONTRACTOR TO PROVIDE QUANTITY OF ROOM CONTROLLERS REQUIRED

MASTER WIRELESS BORDER ROUTER & NB - SWITCH IN

CALIFORNIA GREEN BUILDING STANDARDS COMPLIANCE ALL EXTERIOR LUMINAIRES SPECIFIED IN THESE CONTRACT DOCUMENTS COMPLY WITH THE REQUIREMENTS OF THE CALIFORNIA ENERGY CODE AND THE CALIFORNIA GREEN BUILDING STANDARDS CODE, SECTION A5.106.8 LIGHT POLLUTION REDUCTION. EXTERIOR LUMINAIRES COMPLY WITH BACKLIGHT, UPLIGHT, AND GLARE (BUG) RATINGS AS DEFINED IN IESNA TM-15-11 AND BUG RATINGS DO NOT EXCEED THE MAXIMUM ALLOWABLE RATINGS FOR THIS PROJECT.

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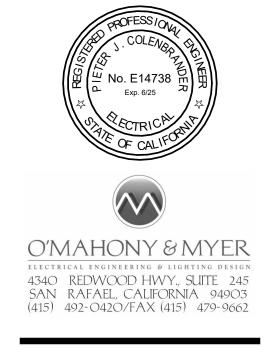
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ELECTRICAL SYMBOLS LIST

TERRALINDA HIGH SCHOOL CRO & EACH ITIES TI - 223135 D23

YPE	MOUNTING	SCHOOL CONTRACTOR CONTRACTOR CONTRACTOR TO	MANUFACTURER CATALOG NUMBER	LIGHT SOURCE	POWER SUPPLY	VOLT	INPUT WATTS	REMARKS
AA2	PENDANT	PENDANT MOUNTED DIRECT/INDIRECT LINEAR LUMINAIRE WITH EXTRUDED ALUMINUM CONSTRUCTION HOUSING, WIDESPREAD UPLIGHT OPTIC, FLUSH DOWNLIGHT DIFFUSER, AND CAST ALUMINUM ENDCAPS. 50": FULLY ADJUSTABLE AIRCRAFT CABLE SUSPENSION KIT. 2.5" X 2.5" X 8' LENGTH COMPRISED OF (1) 8' MODULE. WHITE, BLACK, OR SATIN ALUMINUM POLYESTER PAINTED FINISH TO BE DETERMINED BY THE ARCHITECT. WEIGHT: 2.3 LBS/FT.	FINELITE HP-X-P-ID-8'-B-H-835-F-F- 120/277-SC-FC-1%-FA50- CEILING-FE-FINISH	3500K LED 80 CRI 5288 LM/4'	0-10V DIMMING (1%-100%)	120/277V		
AC2	SURFACE WALL		FLUXWERX LNW-A-0-D-W1-FINISH-Y6-8-35- B-E1-M-1L4-1L8-E-A	3500K LED 80 CRI 1337 LM/4'	0-10V DIMMING (1%-100%)	120/277V	35 W	
AC3	SURFACE WALL	SIMILAR TO TYPE AC2 EXCEPT 16' LENGTH.	FLUXWERX LNW-A-0-D-W1-FINISH-Y6-8-35- B-E1-M-2L8-E-A	3500K LED 80 CRI 1337 LM/4'	0-10V DIMMING (1%-100%)	120/277V	47 W	
AC4	SURFACE WALL	I	FLUXWERX LNW-A-0-D-W1-FINISH-Y6-8-35- B-E1-M-3L8-E-A	3500K LED 80 CRI 1337 LM/4'	0-10V DIMMING (1%-100%)	120/277V	70 W	
AD1	NOT USED							
AD2	RECESSED	STEEL CONSTRUCTION HOUSING, 4.5" DIAMETER BEVELED AND REGRESSED TRIM WITH MATCHING	USAI LIGHTING B4RW-F-09C3-35KS-W2-D2- BEVEL TRIM-FLANGE TRIM-FT- UNV-D6E-CB27	80 CRI	0-10V DIMMING (100%-1%)	UNV	9 W	
AJ1	RECESSED	RECESSED 2' X 2' TROFFER DIE-FORMED STEEL CONSTRUCTION NOM. 2-3/8" DEPTH. CENTER BASKET DESIGN WITH CURVED RIBBED ACRYLIC DIFFUSER; SEISMIC RETAINING CLIPS	LITHONIA 2BLT2-40L-ADP-EZ1-LP835- LATC	3500K LED 82 CRI 4041 LM	0-10V DIMMING (100%-1%)	UNV	31 W	
AK1	NOT USED							

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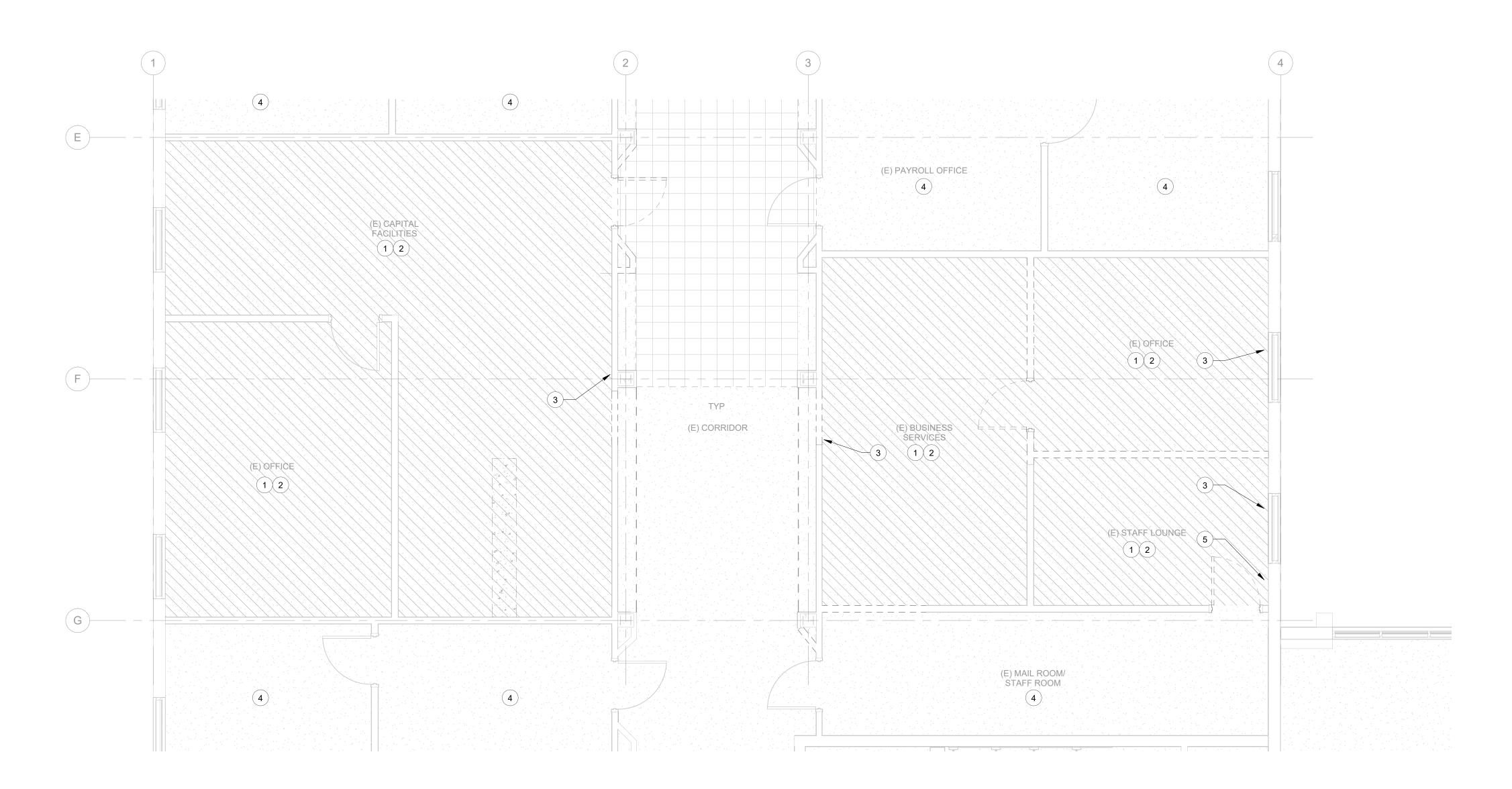
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LUMINAIRE SCHEDULE



1) FLOOR PLAN - ELECTRICAL DEMOLITION



SHEET NUMBERED NOTES

- 1 DISCONNECT AND REMOVE ALL EXISTING LUMINAIRES AND ASSOCIATED CONTROLS IN THIS ROOM. INCLUDE ALL RELATED LUMINAIRE CONTROLS CONDUIT, WIRING AND BACK BOXES. EXISTING LUMINAIRE POWER CIRCUITRY IS TO REMAIN TO BE REUSED. REMOVE EXISTING FLEX CONDUIT EXTENSIONS, WHERE PRESENT, BACK TO NEAREST BOX TO REMAIN.
- 2 DISCONNECT AND REMOVE ALL EXISTING RECEPTACLES, TELECOM OUTLETS, CLOCKS AND SPEAKERS IN THIS ROOM, U.O.N. INCLUDE ALL RELATED RACEWAY, WIRING AND BACK BOXES BACK TO NEAREST JUNCTION TO REMAIN, U.O.N.
- 3 EXISTING SURFACE MOUNTED CONDUIT AT THIS WALL IS TO REMAIN. PROTECT IN PLACE.
 4 NO ELECTRICAL SCOPE IN THIS ROOM.
- 5 EXISTING PUNCH BLOCKS AT THIS LOCATION TO BE RELOCATED. IDENTIFY AND MARK TERMINATION OF ALL EXISTING WIRING CONNECTED TO BLOCKS AND PULL BACK TO A LOCATION OUTSIDE OF THE AREA OF WORK. TRIM EXISTING CONDUITS STUBBED OUT ADJACENT TO BLOCKS BACK TO NEW PUNCH BLOCKS LOCATION IN EXISTING MAIL/STAFF ROOM TO THE SOUTH. BUSH CONDUIT ENDS. SEE E-301 FOR NEW LOCATION.

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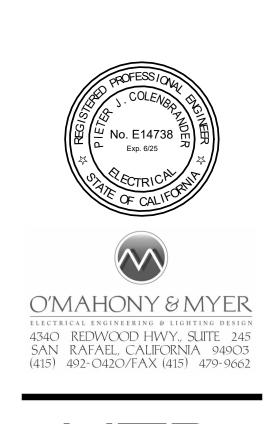
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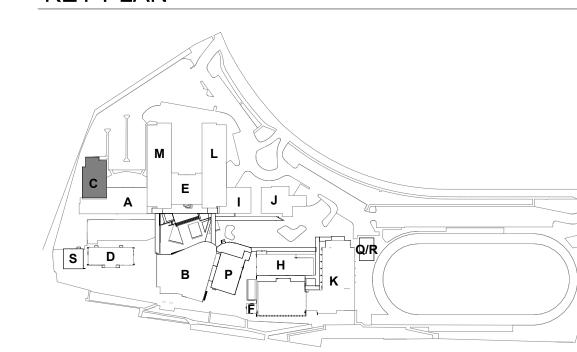
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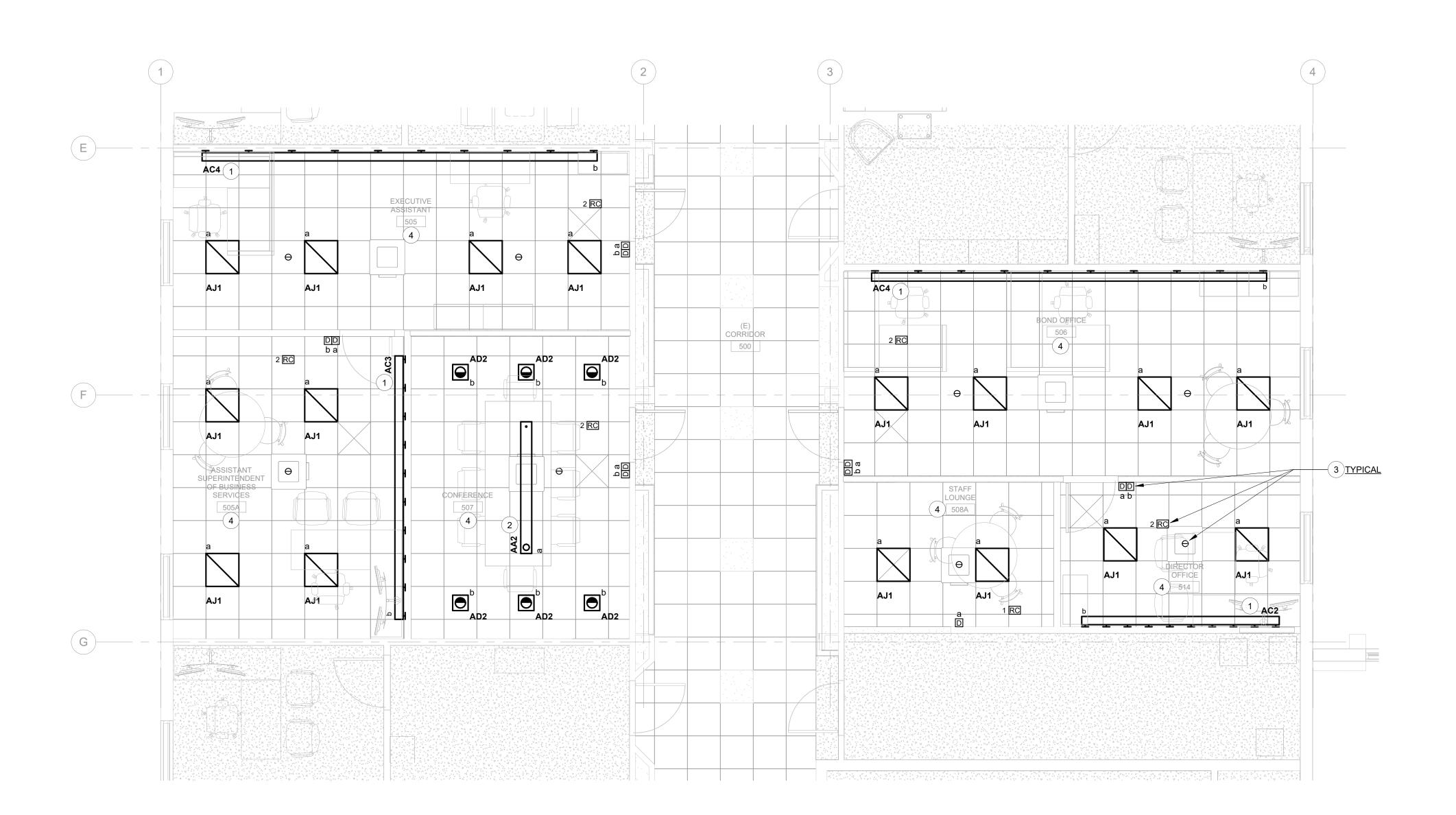
KEY PLAN



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FLOOR PLAN ELECTRICAL
DEMOLITION



1) FLOOR PLAN - LIGHTING
1/4" = 1'-0"

#) SHEET NUMBERED NOTES

- WALL MOUNTED AT 7'-6" A.F.F. TO THE BOTTOM OF THE LUMINAIRE.
 PENDANT MOUNTED AT 7'-6" A.F.F. TO THE BOTTOM OF THE LUMINAIRE.
 PROVIDE AND INSTALL DIMMER SWITCH(ES), OCCUPANCY SENSOR(S), AND ROOM CONTROLLERS WHERE SHOWN. SEE DETAILS ON SHEET E-701. MOUNT ROOM CONTROLLERS ABOVE ACCESSIBLE CEILING WHEREVER POSSIBLE.
- 4 CONNECT COMPLETE NEW LUMINAIRES TO EXISTING LIGHTING CIRCUITS VIA NEW LIGHTING CONTROLS.

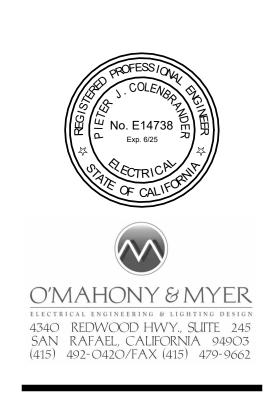
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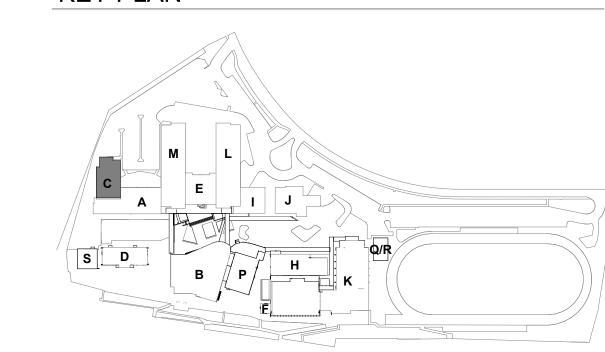


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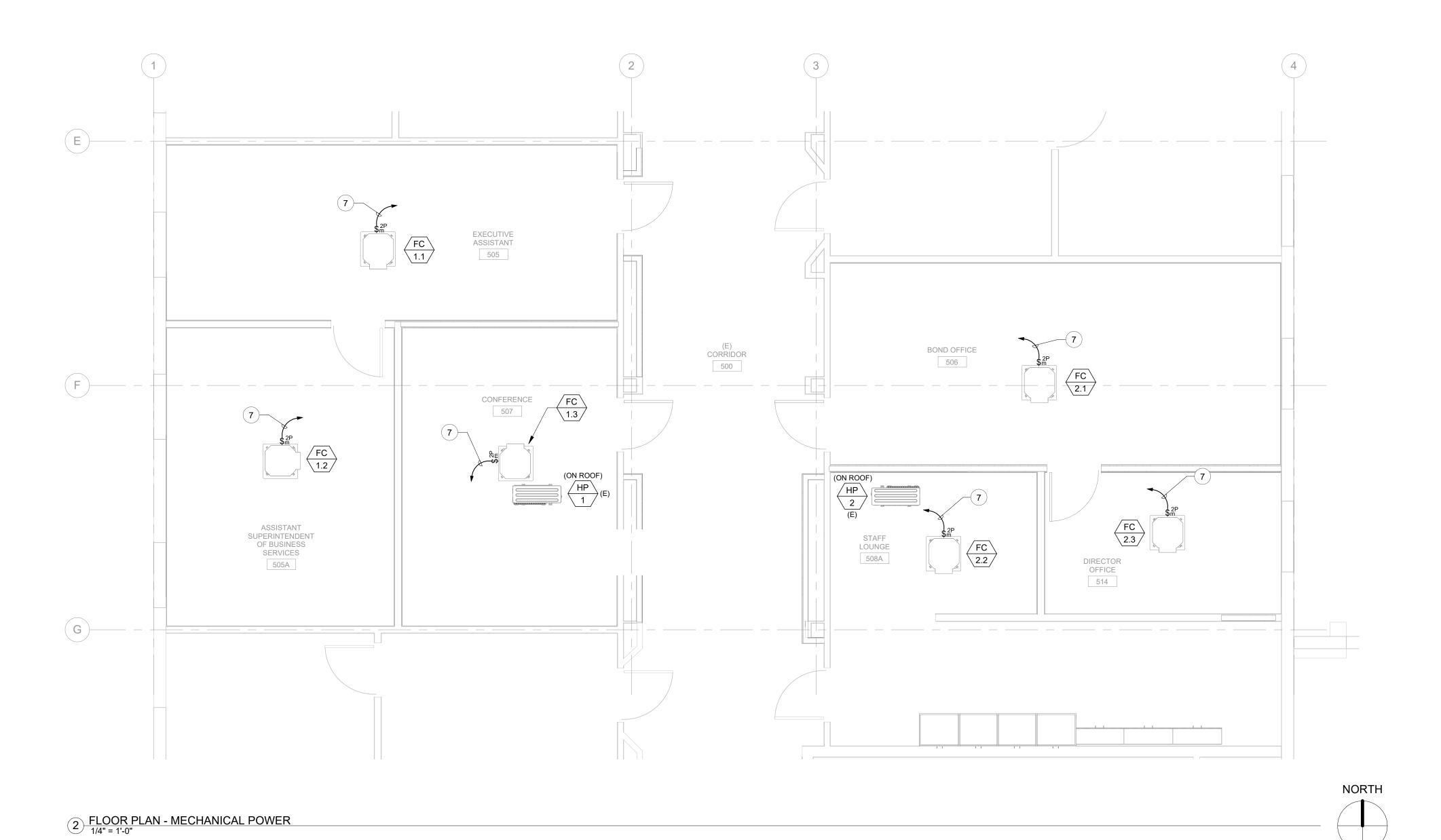
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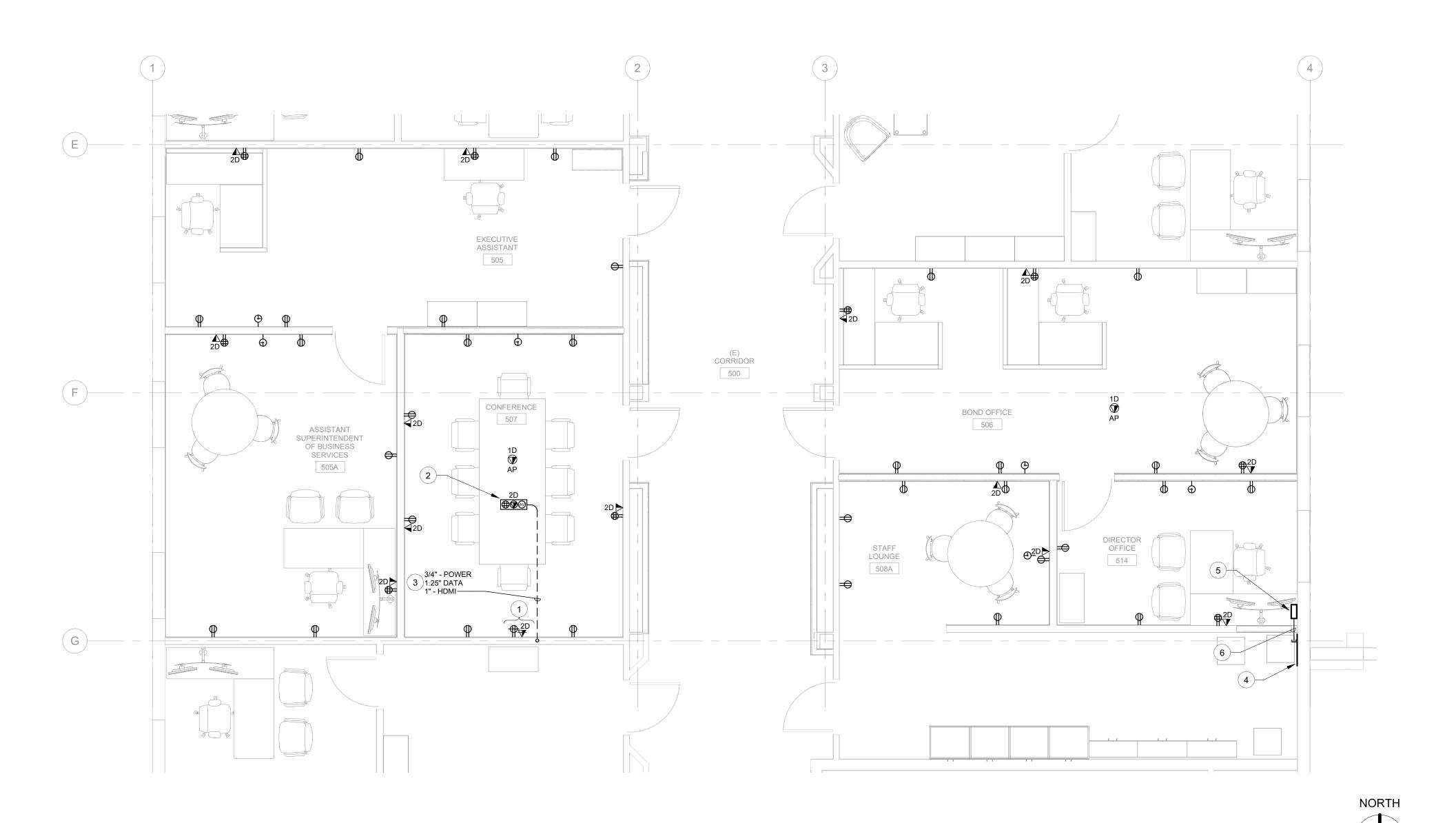
KEY PLAN



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FLOOR PLAN -LIGHTING





1 FLOOR PLAN - POWER & SIGNAL 1/4" = 1'-0"

SHEET NUMBERED NOTES

- 1 FLUSH WALL MOUNTED AV/POWER BOX ASSEMBLY (BEHIND FLAT PANEL DISPLAY). HUBBELL NET SELECT FPTV 4-GANG BOX #NSAV124M, OR EQUAL, WITH DUPLES RECEPTACLE, (2) DATA JACKS AND (1) EXTRON MODEL WPD110A HDMI CONNECTOR ASSEMBLY. VERIFY MOUNTING HEIGHT AND LOCATION WITH ARCHITECT PRIOR TO
- ROUGH-IN. SEE ARCHITECTURAL ELEVATION DRAWINGS. PROVIDE (4) COMPARTMENT FLOOR BOX WITH ROUND COVER, LEGRAND MODEL RFB4E, OR EQUAL. 'AV' OUTLET SHOWN TO BE (1) EXTRON MODEL WPD110A HDMI CONNECTOR ASSEMBLY WITH HDMI PASS-THRU CABLE FROM CONNECTOR ASSEMBLY TO HUBBELL AV BOX BEHIND ROOM FLAT PANEL DISPLAY. RUN HDMI CABLE IN CONDUIT SHOWN AND TERMINATE IN HDMI CONNECTOR ASSEMBLY IN AV BOX. SEE NOTES 1 AND 3.
- 3 SAW CUT EXISTING SLAB AND PROVIDE CONDUIT SHOWN. STUB DATA CONDUIT IN CEILING, HOMERUN POWER CONDUIT TO PANEL INDICATED AND CONNECT HDMI CONDUIT TO HUBBELL AV BOX BEHIND FLAT
- PANEL DISPLAY. SEE NOTES 1 AND 2. 4 INSTALL EXISTING BACKBOARD AND PUNCH BLOCKS REMOVED FROM ADJACENT ROOM AT THIS LOCATION. RECONNECT COMPLETE EXISTING WIRING FORMERLY CONNECTED TO BLOCKS, USING EXISTING CONDUIT TRIMMED BACK TO THIS LOCATION DURING DEMOLITION WORK. SEE E-101.
- 5 INTERCEPT EXISTING TELECOM CONDUIT ENTERING ROOM FROM THE CEILING WITH NEW WALL MOUNTED PULLCAN, SIZED PER NEC. 6 PROVIDE NEW 1" CONDUIT FROM NEW PULLBOX, STUBBED OUT ADJACENT TO RELOCATED PUNCH BLOCKS. BUSH CONDUIT END. RECONNECT COMPLETE EXISTING TELECOM WIRING PULLED BACK DURING DEMOLITION WORK TO RELOCATED PUNCH BLOCKS, USING NEW PULLCAN AND CONDUIT.
- 7 EXISTING OUTDOOR HP UNIT ON ROOF SUBFEEDS LINE VOLTAGE POWER TO INDOOR UNIT. PROVIDE, INSTALL AND CONNECT COMPLETE INTERCONNECTION BETWEEN UNITS USING (2) #12 + (1) #12G. IN 3/4"

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SCOPE NOTE

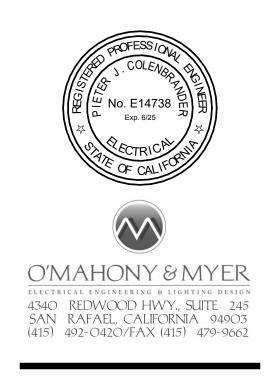
IN ADDITION TO PROJECT SCOPE SHOWN ON THIS SHEET, INCLUDE THE FOLLWING FOR BIDDING PURPOSES:

. PROVIDE BRANCH CIRCUITY OF THE QUANTITY INDICATED BELOW TO RECEPTACLES SHOWN ON PLAN. ASSUME MAXIMUM CIRCUIT LENGTH TO BE 150 FEET. SEE 26 0500, 3.02(A)(10). UTILIZE 3/4" EMT RACEWAY, CONCEALED IN CEILING AND WALLS. APPLY CIRCUIT DERATING PER CEC 310.15(C), AS NECESSARY.

- RM. 505 - (4) CKTS. - RM. 505A - (2) CKTS. - RM. 506 - (5) CKTS. - RM. 507 - (4) CKTS.

- RM. 508A - (2) CKTS. - RM. 514 - (2) CKTS.

- 2. PROVIDE QUANTITY OF CAT 6A DATA CABLING INDICATED ON PLAN. ASSUME MAXIMUM CABLE LENGTH OF 100 FEET.
- 3. PROVIDE (3) #12 TO EACH CLOCK SHOWN ON PLAN. HOMERUN TO CAMPUS CLOCK HEAD END EQUIPMENT IN BLDG. I. RUN WIRE ON J-HOOKS ABOVE CEILING, WHEN POSSIBLE.



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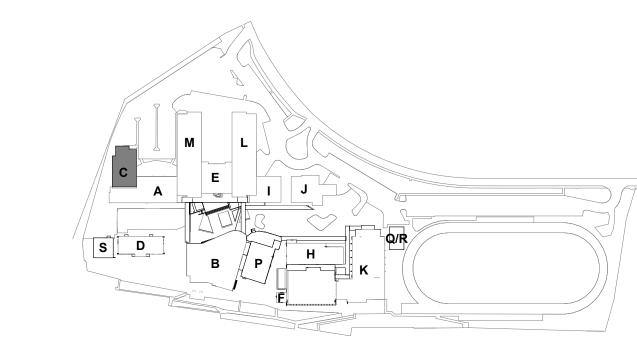
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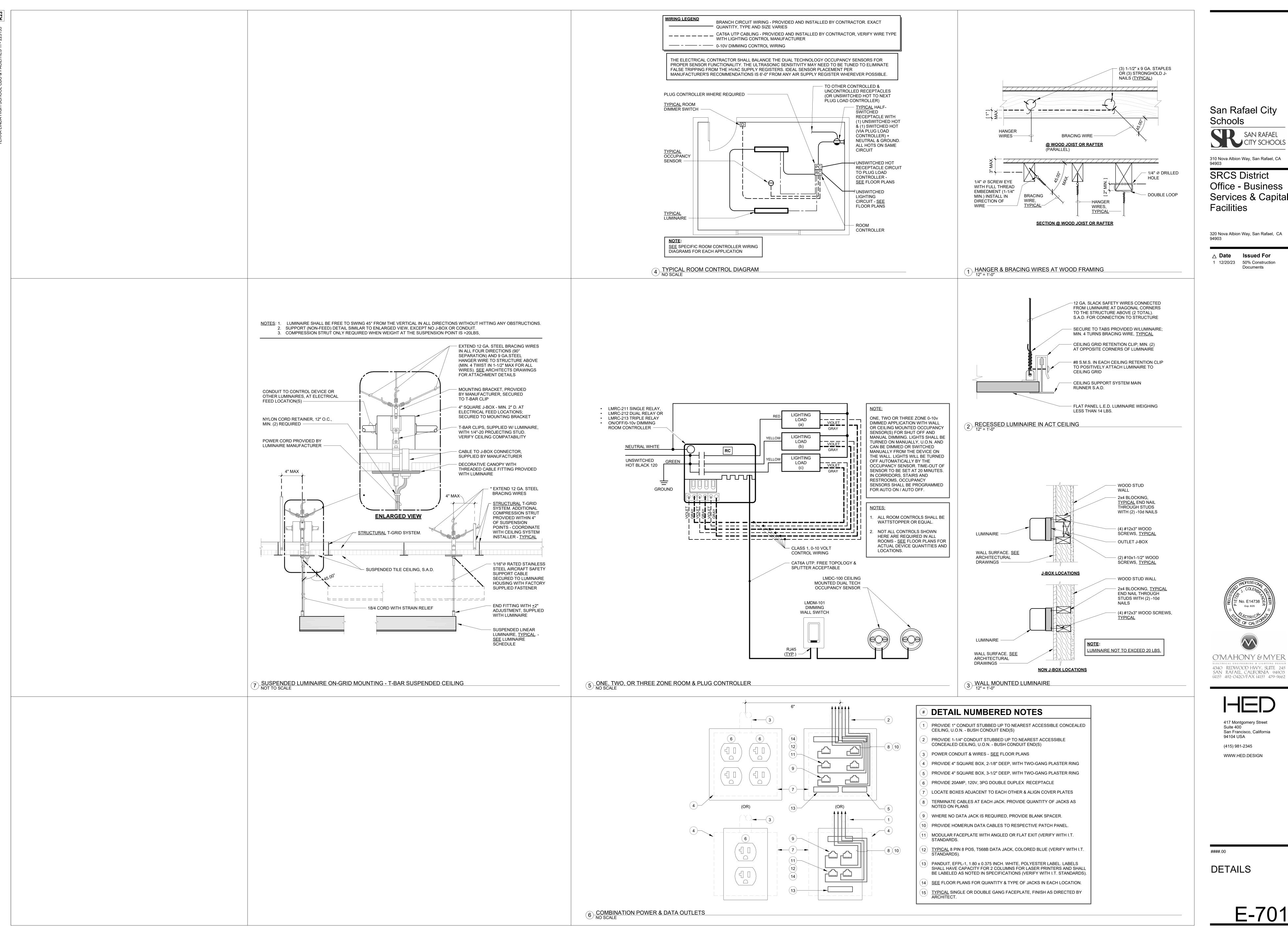
KEY PLAN



POWER &

FLOOR PLAN -SIGNAL &
MECH. POWER

E-301



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CERTIFICATE OF COM	MPLIANCE		NRCC-L
Project Name: SF	RCS District Office - Business Services	Report Page:	(Page 7 o
		Date Prepared:	2/12/20
		•	

Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online Form/Title

NRCI-LTI-E - Must be submitted for all buildings

NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

San Rafael CA 94903

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included 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 Systems/Spaces To Be Field Verified

Office <250; Office >250;

Conference; Lounge;

Compliance ID: EnergyPro-8069-0224-0291

Report Generated: 2024-02-12 14:19:27

Generated Date/Time: Documentation Software: EnergyPro

Report Version: 2022.0.000

Schema Version: rev 20220101

STATE OF CALIFORNIA Indoor Lighting CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTI-E **Project Name:** SRCS District Office - Business Services (Page 8 of 8) Report Page: 2/12/2024 Project Address: 320 Nova Albion Way Date Prepared:

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT						
I certify that this Certificate of Compliance documentation is accurate and complete.						
Documentation Author Name: Pieter Colenbrander	Documentation Author Signature:					
Company: O'Mahony & Myer	Signature Date: 2024-02-12					
Address: 4340 Redwood Highway Suite 245	CEA/ HERS Certification Identification (if applicable): E14738					
City/State/Zip: San Rafael CA 94903	Phone: 415 492-0420					
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 is required to be included with the documentation the builder provides to the building owner at occupancy.						
Responsible Designer Name: Pieter Colenbrander	Responsible Designer Signature:					
Company: O'Mahony & Myer	Date Signed: 2024-02-12					
Address: 4340 Redwood Hwy Suite: 245	License: E14738					
City/State/Zip:	Phone:					

Generated Date/Time: Documentation Software: EnergyPro Compliance ID: EnergyPro-8069-0224-0291 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Report Generated: 2024-02-12 14:19:27

415 492-0420

STATE OF CALIFORNIA **Indoor Lighting** CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE (Page 4 of 8) **Project Name:** SRCS District Office - Business Services Report Page: Date Prepared: 2/12/2024

H. INDOOR LIGHTING CONTROLS (Not including PAFs) This table includes lighting controls for conditioned and unconditioned spaces. **Building Level Controls** Field Inspector Mandatory Demand Response 110.12(c) Shut-off controls 130.1(c) / 160.5(b)40 NA < 4,000W subject to multilevel See Area/Space Level Controls Area Level Controls Manual Area Multi-Level Complete Building or Area Shut-Off Controls Field Inspector Controls Controls Daylighting Systems Daylighting | 130.1(d) / 140.6(a)1/ Area Description Category Primary Function 130.1(c) // 130.1(a)/ 130.1(b)/ 130.1(d) / 130.1(d) / 140.6(a)1/ 160.5(b)4D 170.2(e)2A 160.5(b)4C Area 160.5(b)4A 160.5(b)4B Pass Fail Readily Office <250 Office (<=250 square feet) Occupancy Sensor Accessible Readily Office >250 Office (>250 square feet) Accessible 24sf Glazing 24sf Glazing Convention, Conference, NA: Rm < NA: Rm < Conference Multipurpose and Meeting Occupancy Sensor 24sf Glazing 24sf Glazing Accessible Occupancy Sensor Lounge Lounge 24sf Glazing 24sf Glazing Accessible Plan Sheet Showing Daylit Zones:

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STATE OF CALIFORNIA Indoor Lighting CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTI-E **Project Name:** SRCS District Office - Business Services Report Page:
Date Prepared: (Page 5 of 8) 2/12/2024

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used . **Conditioned Spaces** 03 Complete Building or Area Category Primary Additional Allowance / Adjustment llowed Density Allowed Wattage Area Description Area (ft²) Function Area (W/ft^2) Area Category PAF Office >250 Office (>250 square feet) 0.6 554.4 Office (<=250 square feet) 0.65 Office <250 88.4 No No 0.55 No Convention, Conference, Multipurpose and 0.75 188.2 Conference Meeting Center **TOTALS:** 1,431 897 See Tables J, or P for detail

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Generated Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220101

Documentation Software: EnergyPro Compliance ID: EnergyPro-8069-0224-0291 Report Generated: 2024-02-12 14:19:27

STATE OF CALIFORNIA Indoor Lighting CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTI-E **Project Name:** SRCS District Office - Business Services (Page 6 of 8) Report Page: Date Prepared: 2/12/2024

This section does not apply to this project. O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF)) This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS This section does not apply to this project

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

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STATE OF CALIFORNIA Indoor Lighting CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE 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 for onresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities. Project Name: SRCS District Office - Business Services Report Page: (Page 1 of 8) 320 Nova Albion Way Date Prepared: 2/12/202 Project Address:

A. GENERAL INFORMATION 04 Total Conditioned Floor Area (ft²) 1,431 01 Project Location (city) San Rafael 02 Climate Zone 05 Total Unconditioned Floor Area (ft²) 06 # of Stories (Habitable Above Grade) 03 Occupancy Types Within Project (select all that apply): ◆ Office
 ◆ All Other Occupancies

B. PROJECT SCOPE This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations. Scope of Work **Conditioned Spaces Unconditioned Spaces** 05 My Project Consists of (check all that apply): Calculation Method Calculation Method Area (ft²) Area (ft²) □ New Lighting System Area Category Method Area Category Method ☐ New Lighting System - Parking Garage Total Area of Work (ft²) 1431

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C. COMPLIANCE RESULTS If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance. Adjusted Lighting Power per 140.6(a) / 170.2(e) Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts) **Compliance Results** Lighting in 09 conditioned and unconditioned Category PAF Lighting spaces must not be Total Category Control Credits combined for Building Designed 05 must be >= 08 140.6(c)2 / 140.6(c)2G / 170.2(e)4B Allowed 140.6(a)2/ compliance per 140.6(c)1 (Watts) 140.6 / 170.2(e) 170.2(e)4 | 170.2(e)4Av (+) (Watts) 170.2(e)1B 140.6(b)1 / 170.2(e) Adjustments (See Table I) (See Table I) (See Table J) (See Table K) (See Table F) (See Table P) 860 COMPLIES Conditioned COMPLIES Controls Compliance (See Table H for Details) Rated Power Reduction Compliance (See Table Q for Details)

D. EXCEPTIONAL CONDITIONS This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

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STATE OF CALIFORNIA Indoor Lighting CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTI-E Report Page: **Project Name:** SRCS District Office - Business Services (Page 3 of 8) Date Prepared: 2/12/2024

F. INDOOR LIGHTING FIXTURE SCHEDULE This table includes all planned permanent and portable lighting other than dwelling unit/hotel/motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here. Field Inspector Modular Watts per Name or Iten Complete Luminaire How is Wattage | Total Number Aperture & 140.6(a)3 / (Track) Fixture Description luminaire² determined of Luminaire 170.2(e)2C AA2-PENDANT LINEAR AC2-WALL LINEAR 12 Mfr. Spec AC3-WALL LINEAR 16 AC4-WALL LINEAR 24 AD2-RECESSED WW Mfr. Spec Total Designed Watts: CONDITIONED SPACES 860

¹FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05. ²Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

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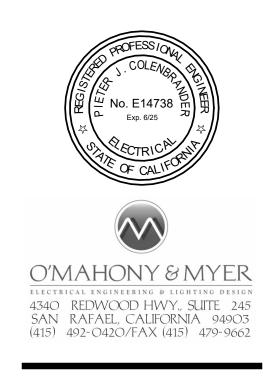
San Rafael City

310 Nova Albion Way, San Rafael, CA

SRCS District Office - Business

320 Nova Albion Way, San Rafael, CA

 ∆ Date Issued For 1 12/20/23 50% Construction Documents



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