

ACCESSIBILITY COMPLIANCE


THE BUILDING HAS BEEN SURVEYED CUMULATIVELY BY NUMEROUS CONSULTANTS FOR COMPLIANCE WITH REQUIRED ACCESSIBILITY FEATURES PER THE 2022 CALIFORNIA BUILDING CODE. IF REQUIRED, THE PROPOSED ALTERATION WORK WILL INCLUDE THE UPGRADES REQUIRED TO PROVIDE COMPLIANCE WITH ACCESSIBILITY FEATURES SERVING THE AREA OF WORK AS DESCRIBED IN 2022 CBC SEC. 11B-202.

TO THE BEST OF MY KNOWLEDGE, I ACKNOWLEDGE THE FOLLOWING SCOPE OF REQUIRED UPGRADES:

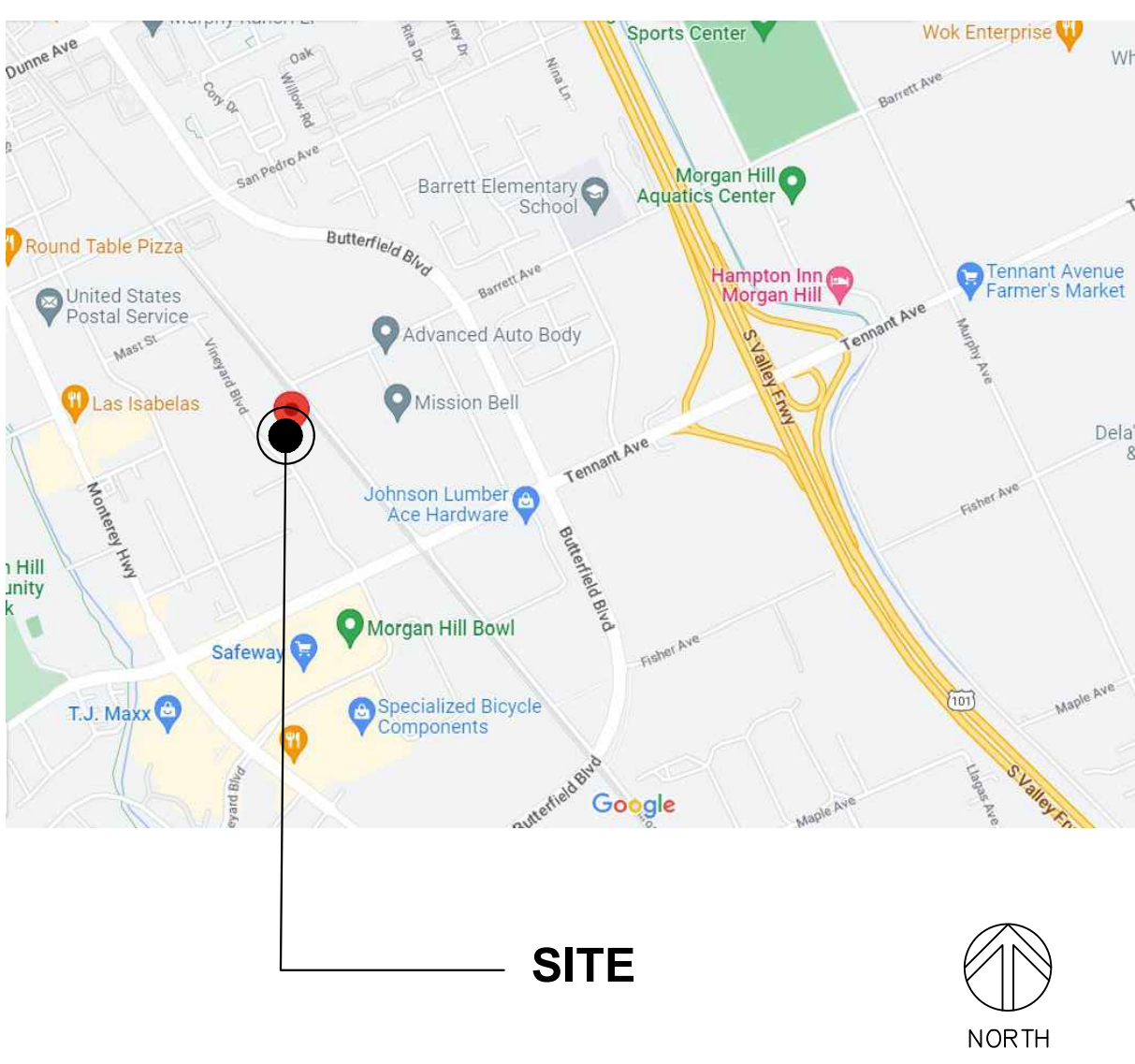
THE EXISTING REQUIRED ACCESSIBILITY FEATURES SERVING THE AREA OF WORK ARE IN COMPLIANCE WITH THE 2022 CBC.

UPGRADES TO THE EXISTING CONDITIONS ARE BEING PROPOSED TO PROVIDE COMPLIANCE WITH REQUIRED ACCESSIBILITY FEATURES SERVING THE AREA OF WORK IN CONFORMANCE WITH 2022 CBC.

X THE FEASIBILITY OF THE PROPOSED WORK WILL BE SEVERELY IMPACTED IF FULL ACCESSIBILITY COMPLIANCE IS PROVIDED. NOT ALL ACCESS FEATURES WILL BE PROVIDED WITH THE PROPOSED SCOPE OF WORK. THUS AN UNREASONABLE HARDSHIP DETERMINATION MUST BE GRANTED. UPGRADES WILL BE PROVIDED FOR ALL FEATURES NOT EXCEPTED IN THE APPROVED HARDSHIP APPLICATION.

SIGNATURE  DATE 10/06/2023
I AM: X_PROJECT DESIGNER, BUSINESS OWNER, OTHER_X_CasP 984 - EXP 8/24

LOCATION MAP



PROJECT DATA

THE GENERAL CONTRACTOR SHALL PROVIDE ALL WORK AND MATERIALS IN ACCORDANCE WITH ALL LOCAL, STATE & FEDERAL CODES. ALL CONSTRUCTION SHALL CONFORM TO THE FOLLOWING:

2022 CALIFORNIA BUILDING CODE (2022 IBC) & APPENDICES (EFFECTIVE DATE 01/01/2023)
2022 CALIFORNIA FIRE CODE (EFFECTIVE DATE 01/01/2023)
2022 CALIFORNIA PLUMBING CODE (EFFECTIVE DATE 01/01/2023)
2022 CALIFORNIA ELECTRICAL CODE (EFFECTIVE DATE 01/01/2023)
2022 CALIFORNIA MECHANICAL CODE (EFFECTIVE DATE 01/01/2023)
2022 CALIFORNIA ENERGY CODE (EFFECTIVE DATE 01/01/2023)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (EFFECTIVE DATE 01/01/2023)
2022 CALIFORNIA EXISTING BUILDING CODE (EFFECTIVE DATE 01/01/2023)

ACCESSOR PARCEL NUMBER: 817-05-082
CONSTRUCTION TYPE: V-B
NO. OF STORIES: 1
OCCUPANCY GROUP: B 25,490
ACCESSORY OCCUPANCY (AREA N.I.C.): I-3 DETENTION(2HR SEP.) 2,369 SF
S2-GARAGE (1HR. SEP) 11,934 SF
S1 3,493 SF

TOTAL BUILDING AREA: 43,286 S.F.
TENANT AREA: 25,490 S.F.
AREA OF WORK: 6,080 S.F.

LIFE SAFETY SYSTEM:
FIRE SPRINKLERED: EXISTING
CENTRAL MONITORED: EXISTING
FIRE HORNS & STROBES: EXISTING
FIRE MANUAL PULL STATION @ LOBBY: EXISTING

SCOPE OF WORK

SCOPE SUMMARY:
THE PURPOSE OF THE PROJECT IS TO EXPAND THE EXISTING POLICE DEPARTMENT INTO THE ADJACENT SUITE 100 AT 16200 VINEYARD BLVD. IN MORGAN HILL, CA. THE PROJECT SCOPE WILL INCLUDE MINOR DEMOLITION OF NON-STRUCTURAL WALLS TO PROVIDE ACCESS TO THE NEW OFFICE AREA. ELECTRICAL WORK SHALL INCLUDE ADDING SUITE 100 AND 150 TO THE EXISTING BACK UP GENERATOR (TRANSFER 480 FEEDER TO DISTRIBUTION PANEL); ADDITION/RELOCATION OF CONVENIENCE OUTLETS, AND REPLACEMENT OF (3) 2X4 FIXTURES WITH (4) 2X2 FIXTURES IN EXPANDED WORK AREA. ALL OTHER LIGHTING TO REMAIN.

- THERE WILL BE:
- NO CHANGE OF BUILDING USE
 - NO CHANGE TO EXISTING PARKING LAYOUT
 - NO CHANGE TO EXISTING LANDSCAPING
 - NO CHANGE TO EXISTING EXTERIOR SIGNAGE
 - NO CHANGE TO EXISTING BUILDING EXTERIOR
 - NO NEW ROOFTOP UNITS
 - NEW SITE IMPROVEMENTS FOR DISABLED ACCESS COMPLIANCE
 - SELECTIVE DEMOLITION OF (E) NON-LOAD BEARING WALLS
 - NEW NON-LOAD BEARING, NON-RATED WALLS
 - NO CHANGE TO EXISTING LIGHTING
 - MODIFICATION EXISTING ELECTRICAL EMERGENCY POWER
 - MINOR MODIFICATION TO EXISTING HVAC SUPPLY AND RETURN GRILLES AS REQUIRED FOR NEW LAYOUT.
 - NO ROOF-MOUNTED MECHANICAL UNITS

ACCESSIBILITY COMPLIANCE FOR "PATH OF TRAVEL" ELEMENTS SHALL BE LIMITED TO UPDATING SITE AND INTERIOR SIGNAGE AND MODIFYING THE ACCESSIBLE ROUTE FROM THE PUBLIC WAY TO THE BUILDING ENTRANCE WHICH EXCEEDS 20% OF THE TOTAL COST OF THE PROJECT. ALL OTHER NON COMPLIANCE ITEMS SHALL BE IDENTIFIED AND FORWARDED TO THE CITY OF MORGAN HILL FOR INCLUSION IN THE TITLE II ENTITY BARRIER REMOVAL PLAN.

MORGAN HILL POLICE DEPARTMENT EXPANSION

ABBREVIATIONS

(E)	EXISTING	FIN	FINISH	P.V.	PHOTO VOLTAINC
(N)	NEW	FLR	FLOOR	R.C.P.	REFLECTED CEILING PLAN
(R)	RELOCATE/RELOCATED	FLUOR.	FLUORESCENT	R.D.	ROOF DRAIN
A.	AMPS	FT.	FOOT OR FEET	R.O.	ROUGH OPENING
A.B.	ANCHOR BOLT	FTG.	FOOTING	R.D.	RADIUS
A/C	AIR CONDITIONING	FURR.	FURRING	REF.	REFERENCE
A.C.	ASPHALTIC CONCRETE	GA.	GAUGE	REFL.	REFLECTED
A.F.F.	ABOVE FINISH FLOOR	G.B.	GRAB BAR	REF.	REFRIGERATOR
ACCESS.	ACCESSIBLE	G.C.	GENERAL CONTRACTOR	REINF.	REINFORCED(ING)(MENT)
ACOUS.	ACOUSTICAL	GALV.	GALVANIZED	REQ.	REQUIRED
ADJ.	ADJUSTABLE	G.L.B.	GLUE LAMINATED BEAM	RES.	RESILIENT
AGGR.	AGGREGATE	GFI	GROUND FAULT INTERRUPT	RET.	RETAINING
AL.	ALUMINUM	GL.	GLASS	REV.	REVISION
ALT.	ALTERNATE	GND.	GROUND	RM.	ROOM
ANC.	ANCHOR	GYP.	GYPSTUM	S.C.	SOLID CORE
APPROX.	APPROXIMATE	HB.	HOSE BIBB	S.D.	SOAP DISPENSER
ARCH.	ARCHITECT(URAL)	H.C.	HOLLOW CORE	SN.R.	SANITARY NAPKIN RECEP.
AUTO.	AUTOMATIC	H.M.	HOLLOW METAL	S.O.G.	SLAB ON GRADE
ABV.	ABOVE	H.V.A.C	HEATING, VENTILATING	S.P.	STAINLESS STEEL
BD.	BOARD	HDW.	AIR CONDITIONING	SMS	SHEET METAL SCREWS
BTWN.	BETWEEN	HDW.	HARDWARE	S.Y.	SQUARE YARD
BIT.	BITUMINOUS	HORIZ.	HARDWOOD	SAN.	SANITARY
BLDG.	BUILDING	HRIZ.	HORIZONTAL	SCHED.	SCHEDULE
BLKG.	BLOCKING	HR.	HOUR	SECT.	SECTION
BM	BEAM	HT.	HEIGHT	SHIT	SHEET
BOT.	BOTTOM	HTR.	HEATER	SHGT.	SHEATHING
C.B.	CATCH BASIN	I.D.	INSIDE DIAMETER	SIM.	SIMILAR
C.I.	CAST IRON	IN.	INCLUDE	SPAC.	SPACING
C.I.P.	CAST IN PLACE	INCL.	INCLUDE	SPEC(C)	SPECIFICATION(S)
C.J.	CONTROL JOINT	INS.	INSULATION	SQ.	SQUARE
CAB.	CABINET	INT.	INTERIOR	STD.	STANDARD
CEM.	CEMENT	INV.	INVERT	STL.	STEEL
CER.	CERAMIC	JAN.	JANITOR	ST.	STONE/STONE TILE
CLG.	CEILING	L.P.	LOW POINT	STOR.	STORAGE
CLR.	CLEAR	LAV.	LAVORATORY	STRUCT.	STRUCTURAL
COL.	COLUMN	LOC.	LOCATION	SUSP.	SUSPENDED
CONC.	CONCRETE	LT.	LIGHT	SYM.	SYMMETRICAL
CONSTR.	CONSTRUCTION	LG.	LIGHT GAUGE	SYS.	SYSTEM
CONT.	CONTINUOUS	LMNS.	LUMENS	T.	TILE
COORD	COORDINATE	LVT.	LUXURY VINYL TILE/PLANK	T&B	TOP AND BOTTOM
CTR.	CENTER	MACH.	MACHINE	T.O.C.	TOP OF CURB
CL	CENTER LINE	MACH.	MACHINE	T&G	TONGUE AND GROOVE
CTSK.	COUNTERSUNK	MATL.	MATERIAL	T.O.G.	TOP OF GRADE
D.F.	DETAIL	MAX.	MAXIMUM	T.O.S	TOP OF SHEATHING
DBL.	DOUBLE	MECH.	MECHANICAL	T.O.W.	TOP OF WALL
DEMO.	DEMOLISH	MED.	MEDIUM	T.O.P.	TOP OF PAVEMENT
DET.	DETAIL	MEMB.	MEMBRANE	T.P.	TOILET PAPER
DIA.	DIAMETER	MEZZ.	MEZZANINE	T.P.D.	TOILET DISPENSER
DIA.	DIAGONAL	MFGR.	MANUFACTURER	T.S.C.D.	TOILET SEAT COVER DISP.
DIM.	DIMENSION	MIN.	MINIMUM	TV.	TELEVISION
DISP.	DISPENSER	MISC.	MISCELLANEOUS	TEL	TELEPHONE
DN.	DOWN	MTD.	MOUNTED	TEMP.	TEMPERED
DWG(S)	DRAWING(S)	MTL.	METAL	TZ	TERRAZZO
(E)	EXISTING	N.I.A.	NOT IN CONTRACT	THK.	THICK
EA.	EACH	N.T.S.	NOT TO SCALE	TYP.	TYPICAL
E.S.	EACH SIDE	NO.	NUMBER	U.O.N.	UNLESS OTHERWISE NOTED
E.W.	EACH WAY	NOM.	NOMINAL	UR.	UNDER
ELEV.	ELEVATION	O.	OVER	V	VOLTS
ELEC.	ELECTRICAL	O.C.	ON CENTER	V.I.F.	VERIFY IN FIELD
E.P.	ELEC. PANEL	O.D.	OUTSIDE DIAMETER	V.T.R.	VENT THROUGH ROOF
EVTR.	ELEVATOR	O.F.C.I.	OWNER FURNISH CONTRACTOR INSTALL	VERT.	VERTICAL
EMER.	EMERGENCY	O.D.	OVERFLOW DRAIN	VEST.	VESTIBULE
ENCL.	ENCLOSURE	O.P.	OVERHEAD	W.	WATTS
ENG.	ENGINEER	OPNG.	OPENING	WI.	WITH
EQ.	EQUAL	OPP.	OPPOSITE	W.A.	WEDGE ANCHOR
EQUIP.	EQUIPMENT	PLAM.	PLASTIC LAMINATE	W.C.	WATER CLOSET
ETC.	ETCETERA	PVC	POLYVINYL CHLORIDE	WO.	WITHOUT
EXP.	EXPANSION	PERF.	PERFORATED	W.P.	WATERPROOF
EXT.	EXTERIOR	PLAS.	PLASTER	WD.	WOOD
F.A.	FIRE ALARM	PLBG.	PLUMBING	WF.	WOOD FLOORING
F.D.	FLOOR DRAIN	PLYWD.	PLYWOOD	WDW.	WINDOW
F.E.	FIRE EXTINGUISHER	PAIR	PAIR	WSCOT.	WAINSCOT
F.O.C.	FACE OF CONCRETE	PREFAB.	PREFABRICATED	WT.	WEIGHT
F.O.F.	FACE OF FINISH	PROJ.	PROJECTION	S.F.	SQUARE FOOT/FEET
F.O.S.	FACE OF STUD	PT.	POINT		
FDTN.	FOUNDATION				

GENERAL NOTES:

- DETAILS SHALL TAKE PRECEDENCE OVER GENERAL FLOOR PLANS.
- DIMENSIONS INDICATED IN CONTRACT DOCUMENTS SHALL GOVERN. DO NOT SCALE DRAWINGS
- THE USE OF THE WORD "PROVIDE" IN CONNECTION WITH ANY ITEM SPECIFIED IS INTENDED TO MEAN THAT SUCH SHALL BE FURNISHED, INSTALLED, AND CONNECTED WHERE SO REQUIRED, EXCEPT AS NOTED OTHERWISE.
- GENERAL NOTES, SPECIFIC NOTES AND SPECIFICATIONS APPEARING ON OTHER SHEETS ARE APPLICABLE TO ALL CONDITIONS.

DISCLAIMER:
ARTFUL ENVIRONMENT, LLC. HAS PREPARED THESE DOCUMENTS ONLY FOR THE IMPROVEMENTS AND CONSTRUCTION NOTED, INDICATED OR SHOWN AS "NEW" WORK, AND ASSUMES NO LIABILITY FOR ALL OTHER CONSTRUCTION, MATERIALS OR EQUIPMENT NOTED, INDICATED OR SHOWN AS "EXISTING" OR AS PROVIDED "BY OTHERS", UNLESS OTHERWISE INDICATED OR NOTED ON THESE DOCUMENTS. ARTFUL ENVIRONMENT HAS NEITHER CHECKED NOR VERIFIED THE STRUCTURAL INTEGRITY, QUALITY OF CONSTRUCTION, ACCESSIBILITY TO, EGRESS FROM, OR DESIGN OF THE EXISTING CONSTRUCTION OR ANY OTHER WORK NOT INCLUDED AS PART OF THE IMPROVEMENTS SPECIFIED, DETAILED OR SHOWN ON THESE DOCUMENTS. REPRESENTATIONS OF EXISTING CONDITIONS ARE MADE WITH THE BEST KNOWLEDGE AVAILABLE AND ARE TO BE FIELD VERIFIED BY THE GENERAL CONTRACTOR WHEN IN QUESTION.

ARTFUL ENVIRONMENT, LLC'S SURVEY OF EXISTING ACCESSIBILITY CONDITIONS HAS BEEN PERFORMED FOR THE RELATIVE DEGREE OF COMPLIANCE ONLY, AS STIPULATED BELOW FOR THE REFERENCED PROJECT. PRE-EXISTING WORK WHERE ARTFUL ENVIRONMENT, LLC IS NOT THE ARCHITECT OF RECORD, ARTFUL ENVIRONMENT, LLC SHALL NOT BE HELD LIABLE FOR ANY WORK RELATING TO EXISTING ACCESSIBILITY REQUIREMENTS, AND NOT BE SUBJECT TO PROSECUTION FOR ELEMENTS WHICH ARE BELIEVED BY US OR OTHERS TO BE NON-COMPLIANT. OUR SURVEY AND STATEMENTS OF COMPLIANCE IN NO WAY ABSOLVES THE ARCHITECT OF RECORD OF THE RESPONSIBILITIES AND LIABILITIES IMPLIED THEREIN FOR THE WORK IN PLACE. NOR DOES THIS SURVEY IN ANY WAY IMPLY THAT ANY ELEMENT IN FACT COMPLIES WITH THE INTERPRETATIONS OF ACCESSIBILITY REQUIREMENTS BY ANY AND ALL REVIEWING PARTIES OR AGENCIES.

THE AMERICANS WITH DISABILITIES ACT (ADA) REQUIRES REMOVAL OF ARCHITECTURAL BARRIERS IN EXISTING FACILITIES WHERE SUCH REMOVAL IS READILY ACHIEVABLE. THE DEFINITION OF "READILY ACHIEVABLE" CONTAINED IN THE ADA IS FLEXIBLE AND SUBJECT TO INTERPRETATION ON A CASE-BY-CASE BASIS. THE ADA FURTHER PROVIDES THAT ALTERATIONS TO A FACILITY MUST BE MADE IN SUCH A MANNER THAT, TO THE MAXIMUM EXTENT FEASIBLE, THE ALTERED PORTIONS OF THE FACILITY ARE READILY ACCESSIBLE TO AND BY INDIVIDUALS WITH DISABILITIES. ARTFUL ENVIRONMENT, LLC HAS USED ITS BEST PROFESSIONAL JUDGMENT TO INTERPRET APPLICABLE ADA REQUIREMENTS AND OTHER FEDERAL, STATE AND LOCAL ACCESSIBILITY RULES, CODES, ORDINANCES AND REGULATIONS AS THEY APPLY TO THE PROJECT. HOWEVER, THE REQUIREMENTS OF ADA WILL BE SUBJECT TO VARIOUS AND POSSIBLY CONTRADICTORY INTERPRETATIONS. ARTFUL ENVIRONMENT, LLC, CANNOT AND DOES NOT WARRANT OR GUARANTEE THAT THE PROJECT WILL COMPLY WITH ALL INTERPRETATIONS OF THE ADA REQUIREMENTS AND/OR THE REQUIREMENTS OF OTHER FEDERAL, STATE AND LOCAL LAWS, RULES, CODES, ORDINANCES AND REGULATIONS AS THEY APPLY TO THE PROJECT. IN ADDITION, THE CALIFORNIA STATE BUILDING CODE ALLOWS NON-COMPLIANT FEATURES TO REMAIN IN PLACE UNDER PRESCRIBED CONDITIONS AND UNDER THE PROVISIONS CONTAINED IN THE CALIFORNIA BUILDING CODE UNDER "UNREASONABLE HARDSHIP" AND AS APPROVED BY THE CHIEF BUILDING OFFICIAL. AS SUCH, ARTFUL ENVIRONMENT SHALL NOT BE HELD RESPONSIBLE TO ASCERTAIN WHICH THESE ARE AND WHICH NON-COMPLIANT ELEMENTS WOULD REQUIRE RETROFITTING TO MEET COMPLIANCE REQUIREMENTS.

THE EXISTING LOADS INDICATED ON THESE DOCUMENTS REFLECT THE JUDGEMENT OF ARTFUL ENVIRONMENT, LLC. AND ARE BASED UPON THE BEST KNOWLEDGE AND INFORMATION AVAILABLE AT THE TIME THESE DOCUMENTS WERE PREPARED. IF DUE TO FACTORS UNKNOWN TO ARTFUL ENVIRONMENT, LLC, THE USE OR OCCUPANT LOAD OF THE SPACES DOES NOT CONFORM TO THOSE INDICATED ON THESE DOCUMENTS, ARTFUL ENVIRONMENT, LLC, IS NOT TO BE HELD LIABLE FOR ACTIONS OR EVENTS THAT TRANSPIRE AS A RESULT OF THE CHANGES IN USE OR OCCUPANT LOAD.

FIRE PROTECTION NOTES

- FIRE PROTECTION SYSTEM IS EXISTING AS SUITES 101 & 150 HAVE BEEN ADDED TO EXISTING FIRE PROTECTION SYSTEM AND IS CENTRALLY MONITORED. ANY UNFORESEEN CHANGES SHALL BE DESIGNED AND BUILT IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS.
- PROVIDE (1) 2A-10B C FIRE EXTINGUISHER PER 1,500 S.F. IN AREA (ORD. HZD.), 3,000 S.F. IN AREA (LT. HZD.), 75 FEET OF MAXIMUM TRAVEL DISTANCE TO EXTINGUISHERS.
- IF REQUIRED: FIRE SPRINKLER SYSTEM SHALL BE REVISED IN ACCORDANCE WITH NFPA 13 (2022) AND FIRE DEPARTMENT REQUIREMENTS AND SUBMITTED TO THE FIRE MARSHAL SEPARATELY AS A DEFERRED SUBMITTAL UNDER THIS PERMIT.
- THE FIRE SPRINKLER SYSTEM WATER FLOW SHALL BE MONITORED BY A CENTRAL REPORTING STATION AT ALL TIMES.
- KNOX BOX AS REQUIRED BY THE FIRE DEPARTMENT IS EXISTING; SEE SHT. A0.1 FOR LOCATION.
- FIRE SAFETY DURING DEMOLITION AND CONSTRUCTION TO BE IN ACCORDANCE WITH 2022 CFC CHAPTER 33

PROJ. DIRECTORY

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CITY OF MORGAN HILL
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MORGAN HILL, CA 95037
TENANT/OWNER REPRESENTATIVE:
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EMAIL: BILL.NORMAN@MORGANHILL.CA.GOV

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EMAIL: BNEWBY@ABMECHANICAL.COM

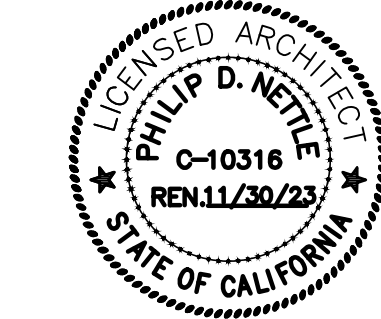
SECURITY CONTRACTOR:
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541 TAYLOR WAY, SUITE 2
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CONTACT: CAROLINA BROWN
INFO@WCSecurity.COM

SHEET INDEX

SHT. #	SHEET NAME
	ARCHITECTURAL
G01	COVER SHEET
G81	2022 CALGREEN NON-RES. MANDATORY MEAS. CHECKLIST
G82	2022 CALGREEN NON-RES. MANDATORY MEAS. CHECKLIST
G83	2022 CALGREEN NON-RES. MANDATORY MEAS. CHECKLIST
A0.1	SITE PLAN, ACCESSIBLE ROUTE& ENLARGED ACCESSIBLE WALK
A0.2	SITE DETAILS
A0.3	OCCUPANCY & EXITING PLAN
A1.0	FLOOR PLANS - DEMO & NEW
A1.1	ENLARGED RESTROOM & INTERIOR ACCESSIBILITY DETAILS
A1.4	POWER AND SIGNAL PLAN
A2.0	REFLECTED CEILING PLAN AND DETAILS
A3.0	PARTITION & CONSTRUCTION DETAILS
A4.1	INTERIOR AND MILLWORK ELEVATIONS & DETAILS
A5.0	FINISH PLAN & DOOR SCHEDULE
A7.0	SPECIFICATIONS
A7.1	SPECIFICATIONS
	MECHANICAL
M0.1	MECHANICAL SPECIFICATIONS, LEGEND & GENERAL NOTES
M0.2	MECHANICAL T24 FORMS
M2.1	MECHANICAL FLOOR & SCHEDULES
M3.1	MECHANICAL DETAILS
	ELECTRICAL
E-0.1	ELECTRICAL SYMBOLS, ABBREVIATIONS & GENERAL NOTES
E-1.1	PARTIAL SINGLE LINE DIAGRAM & PANEL SCHEDULES
E-2.0	POWER PLANS
E-2.1	LIGHTING PLANS
E-2.1	POWER PLANS
E-4.1	ELECTRICAL SPECIFICATIONS PART 1
E-4.2	ELECTRICAL SPECIFICATIONS PART 2
T24-1	TITLE 24 INDOOR LIGHTING
T24-2	TITLE 24 ELECTRICAL POWER DISTRIBUTION



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Philip D. Nettle

MORGAN HILL POLICE DEPARTMENT EXPANSION

16200 VINEYARD BLVD.
MORGAN HILL, CA 95037

10/06/2023 SUBMIT FOR PLAN CHECK

DRAWING TITLE:

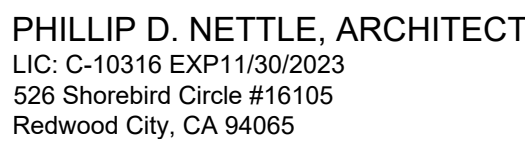
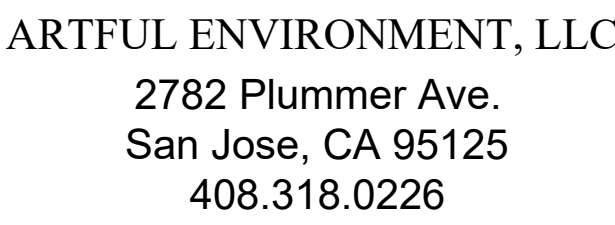
COVER SHEET

DRAWING NO.:

G01

SCALE:

AS NOTED



(January 2023)

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

2022 CALGREEN CHECKLIST

GB1

SCALE: AS NOTED

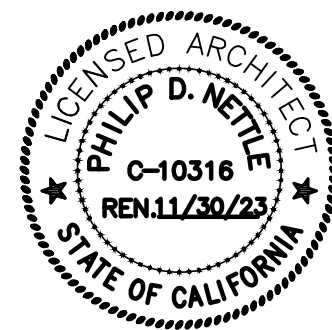
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 2 (January 2023)



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MORGAN HILL POLICE
DEPARTMENT EXPANSION

16200 VINEYARD BLVD.
MORGAN HILL, CA 95037

10/06/2023 SUBMIT FOR PLAN CHECK

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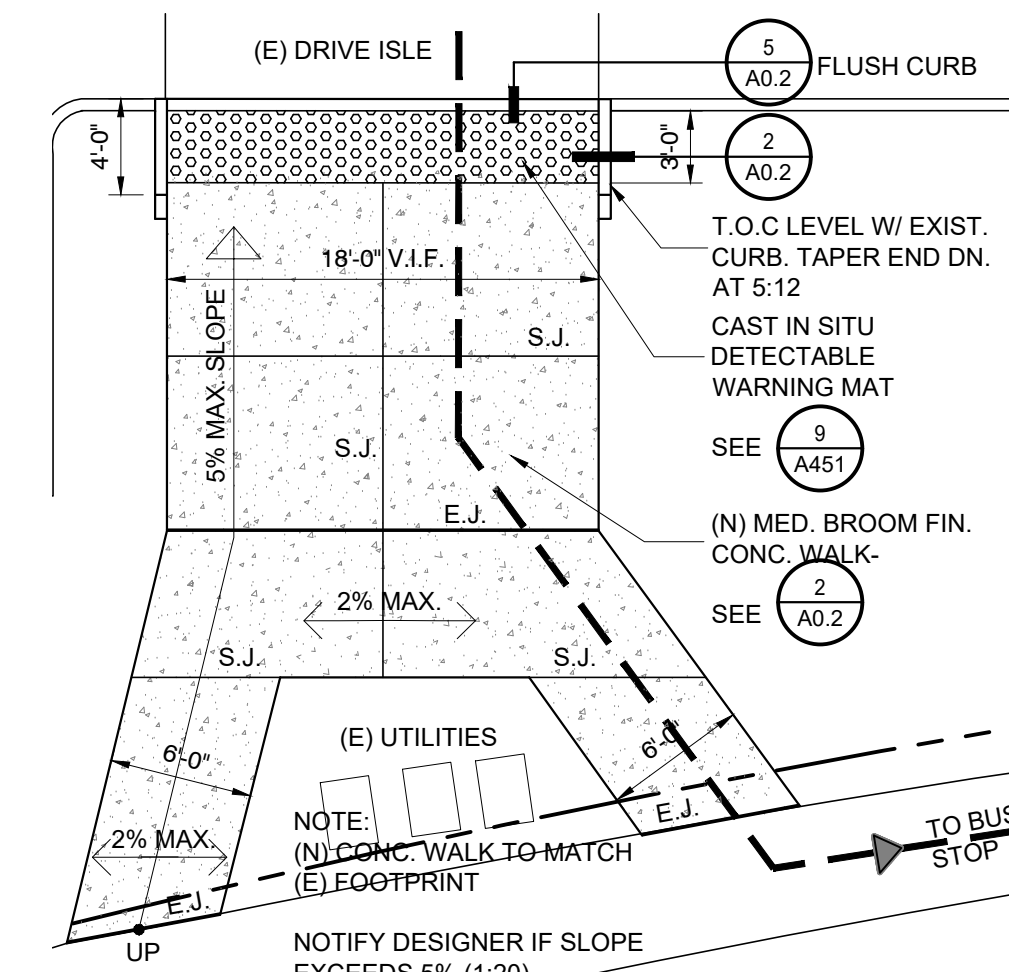
2022 CALGREEN
CHECKLIST

SCALE: AS NOTED

Y	N/A	RESPON. PARTY	Y	N/A	RESPON. PARTY	Y	N/A	RESPON. PARTY	Y	N/A	RESPON. PARTY	Y	N/A	RESPON. PARTY												
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SECTION 5.303 INDOOR WATER USE 5.303.1 METERS. Separate submeters or metering devices shall be installed for the uses described in Sections 503.1.1 and 503.1.2. 5.303.1.1 Buildings in excess of 50,000 square feet. Separate submeters shall be installed as follows: 1. For each individual leased, rented or other tenant space within the building projected to consume more than 100 gpd/day (380 L/day), including, but not limited to, spaces used for laundry or cleaners, restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop. 2. Where separate submeters for individual building tenants are unfeasible, for water supplied to the following subsystems: a. Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s). b. Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s). c. Steam and hot water boilers with energy input more than 500,000 Btu/h (147 kW). 5.303.1.2 Excess consumption. A separate submeter or metering device shall be provided for any tenant within a new building or within an addition that is projected to consume more than 1,000 gpd/day. 5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following: 5.303.3.1 Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-Type toilets. Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush. 5.303.3.2 Urinals. 5.303.3.2.1 Wall-mounted Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush. 5.303.3.2.2 Floor-mounted Urinals. The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush. 5.303.3.3 Showerheads. [BSC-CO] 5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads. 5.303.3.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time. Note: A hand-held shower shall be considered a showerhead. 5.303.3.4 Faucets and fountains. 5.303.3.4.1 Nonresidential Lavatory faucets. Lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi. 5.303.3.4.2 Kitchen faucets. Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi. 5.303.3.4.3 Wash fountains. Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute/20 [im space (inches)] at 60 psi. 5.303.3.4.4 Metering faucets. Metering faucets shall not deliver more than 0.20 gallons per cycle. 5.303.3.4.5 Metering faucets for wash fountains. Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per minute/20 [im space (inches)] at 60 psi. Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction. 5.303.3.4.6 Pre-rinse spray valve When installed, shall meet the requirements in the California Code of Regulations, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) Table H-2, Section 1605.3 (h)(4)(A), and Section 1607 (d)(7), and shall be equipped with an integral automatic shutoff. FOR REFERENCE ONLY: The following table and code section have been reprinted from the California Code of Regulations, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) and Section 1605.3 (h)(4)(A). <table><thead><tr><th colspan="2">TABLE H-2</th></tr><tr><th colspan="2">STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY VALVES MANUFACTURED ON OR AFTER JANUARY 28, 2019</th></tr><tr><th>PRODUCT CLASS [spray force in ounce force (ozf)]</th><th>MAXIMUM FLOW RATE (gpm)</th></tr></thead><tbody><tr><td>Product Class 1 (> 5.0 ozf)</td><td>1.00</td></tr><tr><td>Product Class 2 (> 5.0 ozf and ≤ 8.0 ozf)</td><td>1.20</td></tr><tr><td>Product Class 3 (> 8.0 ozf)</td><td>1.28</td></tr></tbody></table> 5.303.4 COMMERCIAL KITCHEN EQUIPMENT. 5.303.4.1 Food Waste Disposers. Disposers shall either modulate the use of water to no more than 1 gpm when the disposer is not in use (not actively grinding food waste/no-load) or shall automatically shut off after no more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water. Note: This code section does not affect local jurisdiction authority to prohibit or require disposer installation. 5.303.5 AREAS OF ADDITION OR ALTERATION. For those occupancies within the authority of the California Building Standards Commission as specified in Section 103, the provisions of Section 5.303.3 and 5.303.4 shall apply to new fixtures in additions or areas of alteration to the building. 5.303.6 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures and fittings shall be installed in accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table 1701.1 of the California Plumbing Code and in Chapter 6 of this code. SECTION 5.304 OUTDOOR WATER USE 5.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent. Notes: 1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulations, Title 23, Chapter 2.7, Division 2. 2. MWELO and supporting documents, including a water budget calculator, are available at: https://www.water.ca.gov/ . 5.304.6 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. For public schools and community colleges, landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, California Code of Regulations, except that the evapotranspiration adjustment factor (ETAF) shall be 0.55 with an additional water allowance for special landscape areas (SLA) of 0.35. Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MWELO. 5.304.6.1 Newly constructed landscapes. New construction projects with an aggregate landscape area equal to or greater than 500 square feet. 5.304.6.2 Rehabilitated landscapes. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 1,200 square feet. DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY SECTION 5.401 GENERAL 5.401.1 SCOPE. The provisions of this chapter shall outline means of achieving material conservation and resource efficiency through protection of buildings from exterior moisture, construction waste diversion, employment of techniques to reduce pollution through recycling of materials, and building commissioning or testing and adjusting.															TABLE H-2		STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY VALVES MANUFACTURED ON OR AFTER JANUARY 28, 2019		PRODUCT CLASS [spray force in ounce force (ozf)]	MAXIMUM FLOW RATE (gpm)	Product Class 1 (> 5.0 ozf)	1.00	Product Class 2 (> 5.0 ozf and ≤ 8.0 ozf)	1.20	Product Class 3 (> 8.0 ozf)	1.28
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SECTION 5.402 DEFINITIONS 5.402.1 DEFINITIONS. The following terms are defined in Chapter 2 (and are included here for reference) ADJUST. To regulate fluid flow rate and air patterns at the terminal equipment, such as to reduce fan speed or adjust a damper. BALANCE. To proportion flows within the distribution system, including sub-mains, branches and terminals, according to design quantities. BUILDING COMMISSIONING. A systematic quality assurance process that spans the entire design and construction process, including verifying and documenting that building systems and components are planned, designed, installed, tested, operated and maintained to meet the owner's project requirements. ORGANIC WASTE. Food waste, green waste, landscape and pruning waste, nonhazardous wood waste, and food soiled paper waste that is mixed in with food waste. TEST. A procedure to determine quantitative performance of a system or equipment SECTION 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT 5.407.1 WEATHER PROTECTION. Provide a weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1402.2 (Weather Protection), manufacturer's installation instructions or local ordinance, whichever is more stringent. 5.407.2 MOISTURE CONTROL. Employ moisture control measures by the following methods. 5.407.2.1 Sprinklers. Design and maintain landscape irrigation systems to prevent spray on structures. 5.407.2.2 Entries and openings. Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows: 5.407.2.2.1 Exterior door protection. Primary exterior entries shall be covered to prevent water intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following: 1. An installed awning at least 4 feet in depth. 2. The door is protected by a roof overhang at least 4 feet in depth. 3. The door is recessed at least 4 feet. 4. Other methods which provide equivalent protection. 5.407.2.2.2 Flashing. Install flashings integrated with a drainage plane. SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING 5.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65% of the non-hazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3, or meet a local construction and demolition waste management ordinance, whichever is more stringent. 5.408.1.1 Construction waste management plan. Where a local jurisdiction does not have a construction and demolition waste management ordinance, submit a construction waste management plan that: 1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale. 2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream). 3. Identifies diversion facilities where construction and demolition waste material collected will be taken. 4. Specifies that the amount of construction and demolition waste material diverted shall be calculated by weight or volume, but not by both. 5.408.1.2 Waste Management Company. Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with this section. Note: The owner or contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company. Exceptions to Sections 5.408.1.1 and 5.408.1.2: 1. Excavated soil and land-clearing debris. 2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist. 3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets. 5.408.1.3 Waste stream reduction alternative. The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65% minimum requirement as approved by the enforcing agency. 5.408.1.4 Documentation. Documentation shall be provided to the enforcing agency which demonstrates compliance with Sections 5.408.1.1, through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency. Notes: 1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located www.dgs.ca.gov/BSC/Resources/Page-Content/Building-Standards-Commission-Resources-List/Folder/CALGreen may be used to assist in documenting compliance with the waste management plan. 2. Mixed construction and demolition debris processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle). 5.408.2 UNIVERSAL WASTE. [A] Additions and alterations to a building or tenant space that meet the scoping provisions in Section 301.3 for nonresidential additions and alterations, shall require verification that Universal Waste items such as fluorescent lamps and ballast and mercury containing thermostats as well as other California prohibited Universal Waste materials are disposed of properly and are diverted from landfills. A list of prohibited Universal Waste materials shall be included in the construction documents. Note: Refer to the Universal Waste Rule link at: http://www.dts.ca.gov/universalwaste/ 5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS. 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed. Exception: Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation. Notes: 1. If contamination by disease or pest infestation is suspected, contact the County Agricultural Commissioner and follow its direction for recycling or disposal of the material. 2. For a map of known pest and/or disease quarantine zones, consult with the California Department of Food and Agriculture. (www.cdffa.ca.gov) SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS 5.410.1 RECYCLING BY OCCUPANTS. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a locally enacted local recycling ordinance, if more restrictive. Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code 42649.82 (a)(2)(A) et seq. shall also be exempt from the organic waste portion of this section. 5.410.1.1 Additions. All additions conducted within a 12-month period under single or multiple permits, resulting in an increase of 30% or more in floor area, shall provide recycling areas on site. Exception: Additions within a tenant space resulting in less than a 30% increase in the tenant space floor area. 5.410.1.2 Sample ordinance. Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the Public Resources Code. Chapter 18 is known as the California Solid Waste Reuse and Recycling Access Act of 1991 (Act). Note: A sample ordinance for use by local agencies may be found in Appendix A of the document at the CalRecycle's web site. 5.410.2 COMMISSIONING. [N] New buildings 10,000 square feet and over. For new buildings 10,000 square feet and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements. Commissioning shall be performed in accordance with this section by trained personnel with experience on projects of comparable size and complexity. For occupancies that are not regulated by OSHPD or for occupancies and L-occupancies that are not regulated by the California Energy Code Section 100.0 Scope, all requirements in Sections 5.410.2 through 5.410.2.6 shall apply. Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting systems and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements Commissioning requirements shall include: 1. Owner's or Owner representative's project requirements. 2. Basis of design. 3. Commissioning measures shown in the construction documents. 4. Commissioning plan. 5. Functional performance testing. 6. Documentation and training. 7. Commissioning report. Exceptions: 1. Unconditioned warehouses of any size. 2. Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within unconditioned warehouses. 3. Tenant improvements less than 10,000 square feet as described in Section 303.1.1. 4. Open parking garages of any size, or open parking garage areas, of any size, within a structure. Note: For the purposes of this section, unconditioned shall mean a building, area, or room which does not provide heating and/or air conditioning. Informational Notes: 1. IAS AC 476 is an accreditation criteria for organizations providing training and/or certification of commissioning personnel. AC 476 is available to the Authority Having Jurisdiction as a reference for qualifications of commissioning personnel. AC 476 does not certify individuals to conduct functional performance tests or to adjust and balance systems. 2. Functional performance testing for heating, ventilation, air conditioning systems and lighting controls must be performed in compliance with the California Energy Code. 5.410.2.1 Owner's or Owner Representative's Project Requirements (OPR). [N] The expectations and requirements of the building appropriate to its phase shall be documented before the design phase of the project begins. This documentation shall include the following: 1. Environmental and sustainability goals. 2. Building sustainable goals. 3. Indoor environmental quality requirements. 4. Project program, including facility functions and hours of operation, and need for after hours operation. 5. Equipment and systems expectations. 6. Building occupant and operation and maintenance (O&M) personnel expectations. 5.410.2.2 Basis of Design (BOD). [N] A written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project. The Basis of Design document shall cover the following systems: 1. Renewable energy systems. 2. Landscape irrigation systems. 3. Water reuse system. 5.410.2.3 Commissioning plan. [N] Prior to permit issuance a commissioning plan shall be completed to document how the project will be commissioned. The commissioning plan shall include the following: 1. General project information. 2. Commissioning goals. 3. Systems to be commissioned. Plans to test systems and components shall include: a. An explanation of the original design intent. b. Equipment and systems to be tested, including the extent of tests. c. Functions to be tested. d. Conditions under which the test shall be performed. e. Measurable criteria for acceptable performance. 4. Commissioning team information. 5. Commissioning process activities, schedules and responsibilities. Plans for the completion of commissioning shall be included. 5.410.2.4 Functional performance testing. [N] Functional performance tests shall demonstrate the correct installation and operation of each component, system and system-to-system interface in accordance with the approved plans and specifications. Functional performance testing reports shall contain information addressing each of the building components tested, the testing methods utilized, and include any readings and adjustments made. 5.410.2.5 Documentation and training. [N] A Systems Manual and Systems Operations Training are required, including Occupational Safety and Health Act (OSHA) requirements in California Code of Regulations (CCR), Title 8, Section 5142, and other related regulations. 5.410.2.5.1 Systems manual. [N] Documentation of the operational aspects of the building shall be completed within the systems manual and delivered to the building owner or representative. The systems manual shall include the following: 1. Site information, including facility description, history and current requirements. 2. Site contact information. 3. Basic operations and maintenance, including general site operating procedures, basic troubleshooting, recommended maintenance requirements, site events log. 4. Major systems. 5. Site equipment inventory and maintenance notes. 6. A copy of verifications required by the enforcing agency or this code. 7. Other resources and documentation, if applicable. 5.410.2.5.2 Systems operations training. [N] A program for training of the appropriate maintenance staff for each equipment type and/or system shall be developed and documented in the commissioning report and shall include the following: 1. System/equipment overview (what it is, what it does and with what other systems and/or equipment it interfaces). 2. Review and demonstration of servicing/preventive maintenance. 3. Review of the information in the Systems Manual. 4. Review of the record drawings on the system/equipment. 5.410.2.6 Commissioning project. [N] A report of commissioning process activities undertaken through the design and construction phases of the building project shall be completed and provided to the owner or representative. 5.410.4 TESTING AND ADJUSTING. New buildings less than 10,000 square feet. Testing and adjusting of systems shall be required for new buildings less than 10,000 square feet or new systems to serve an addition or alteration subject to Section 303.1. 5.410.4.2 (Reserved) Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting systems and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements and Sections 120.5, 120.6, 130.4, and 140.9(b)(3) for additional testing requirements of specific systems. 5.410.4.2 Systems. Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include at a minimum, as applicable to the project: 1. Renewable energy systems. 2. Landscape irrigation systems. 3. Water reuse systems. 5.410.4.3 Procedures. Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards on each system. 5.410.4.3.1 HVAC balancing. In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards, the National Environmental Balancing Bureau Procedural Standards, Associated Air Balance Council National Standards or as approved by the enforcing agency. 5.410.4.4 Reporting. After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services. 5.410.4.5 Operation and maintenance (O & M) manual. Provide the building owner or representative with detailed operating and maintenance instructions and copies of warranties/warranties for each system. O & M instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related regulations. 5.410.4.5.1 Inspections and reports. Include a copy of all inspection verifications and reports required by the enforcing agency. DIVISION 5.5 ENVIRONMENTAL QUALITY SECTION 5.501 GENERAL 5.501.1 SCOPE. The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors. SECTION 5.502 DEFINITIONS 5.502.1 DEFINITIONS. The following terms are defined in Chapter 2 (and are included here for reference) ARTERIAL HIGHWAY. A general term denoting a highway primarily for through traffic usually on a continuous route. A-WEIGHTED SOUND LEVEL (dBA). The sound pressure level in decibels as measured on a sound level meter using the internationally standardized A-weighting filter or as computed from sound spectral data to which A-weighting adjustments have been made. 1 BTU/HOUR. British thermal units per hour, also referred to as Btu. The amount of heat required to raise one pound of water one degree Fahrenheit per hour, a common measure of heat transfer rate. A ton of refrigeration is 12,000 Btu, the amount of heat required to melt a ton (2,000 pounds) of ice at 32° Fahrenheit. COMMUNITY NOISE EQUIVALENT LEVEL (CNEL). A metric similar to the day-night average sound level (Ldn), except that a 5 decibel adjustment is added to the equivalent continuous sound exposure level for evening hours (7pm to 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn. COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardwood, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, timber, prefabricated wood I-joists or finger-jointed lumber, all as specified in California Code of Regulations (CCR), Title 17, Section 93120.1(a). Note: See CCR, Title 17, Section 93120.1. DAY-NIGHT AVERAGE SOUND LEVEL (Ldn). The A-weighted equivalent continuous sound exposure level for a 24-hour period with a 10 dB adjustment added to sound levels occurring during nighttime hours (10pm to 7 a.m.). DECIBEL (db). A measure on a logarithmic scale of the magnitude of a particular quantity (such as sound pressure, sound power, sound intensity) with respect to a reference quantity. ELECTRIC VEHICLE (EV). An automotive-type vehicle for on-road use, such as passenger automobiles, buses, trucks, vans, neighborhood electric vehicles, electric motorcycles, and the like, primarily powered by an electric motor that draws current from a rechargeable storage battery, fuel cell, photovoltaic array, or other source of electric current. Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the California Electrical Code, off-road, self-propelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline ground support equipment, tractors, boats, and the like, are not included. ELECTRIC VEHICLE CHARGING STATION(S) (EVCS). One or more spaces intended for charging electric vehicles. ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). The conductors, including the ungrounded, grounded, and equipment grounding conductors and the electric vehicle connectors, attachment plugs, and all other fittings, devices, power outlets, or apparatus installed specifically for the purpose of transferring energy between the premises wiring and the electric vehicle. ENERGY EQUIVALENT (NOISE) LEVEL (Ldn). The level of a steady noise which would have the same energy as the fluctuating noise level integrated over the time of period of interest. EXPRESSWAY. An arterial highway for through traffic which may have partial control of access, but which may or may not be divided or have grade separations at intersections. FREEWAY. A divided arterial highway with full control of access and with grade separations at intersections. GLOBAL WARMING POTENTIAL (GWP). The radiative forcing impact of one mass-based unit of a given greenhouse gas relative to an equivalent unit of carbon dioxide over an given period of time. Carbon dioxide is the reference compound with a GWP of one. GLOBAL WARMING POTENTIAL VALUE (GWP VALUE). A 100-year GWP value published by the Intergovernmental Panel on Climate Change (IPCC) in either its Second Assessment Report (SAR) (IPCC, 1995), or its Fourth Assessment A3 Report (AR4) (IPCC, 2007). The SAR GWP values are found in column "SAR (100-yr)" of Table 2.14; the AR4 GWP values are found in column "100-yr" of Table 2.14. HIGH-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that is: (a) a chlorofluorocarbon, a hydrochlorofluorocarbon, a hydrofluorocarbon, a perfluorocarbon, or any compound or blend of compounds, with a GWP value equal to or greater than 150; or (b) any ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009). LONG RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.5 times the pipe diameter. LOW-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that: (A) has a GWP value less than 150, and (B) is not an ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009). MERV. Filter minimum efficiency reporting value, based on ASHRAE 52.2-1999. MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum increase in weight of ozone formed by adding a compound to the "Base Reactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundredths of a gram (0.01 GRC). PRODUCT-WEIGHTED MIR (PW-MIR). The sum of all weighted-MIR for all ingredients in a product subject to this article. The PW-MIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging). PSIG. Pounds per square inch, gauge. REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere. SCHRADER ACCESS VALVES. Access fittings with a valve core installed. SHORT RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.0 times the pipe diameter. SUPERMARKET. For the purposes of Section 5.508.2, a supermarket is any retail food facility with 8,000 square feet or more conditioned area, and that utilizes either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. VOC. A volatile organic compound broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a). Note: Where specific regulations are cited from different agencies such as SCAQMD, ARB, etc., the VOC definition included in that specific regulation is the one that prevails for the specific measure in question. SECTION 5.503 FIREPLACES 5.503.1 FIREPLACES. Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed woodstove or pellet stove, and refer to residential requirements in the California Energy Code, Title 24, Part 6, Subchapter 7, Section 150. Woodstoves, pellet stoves and fireplaces shall comply with applicable local ordinances. 5.503.1.1 Woodstoves. Woodstoves and pellet stoves shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits. SECTION 5.504 POLLUTANT CONTROL 5.504.1 TEMPORARY VENTILATION. The permanent HVAC system shall only be used during construction if necessary to condition the building or areas of addition or alteration within the required temperature range for material and equipment installation. If the HVAC system is used during construction, use return air filters with a Minimum Efficiency Reporting Value (MERV) of 8, based on ASHRAE 52.2-1999, or an average efficiency of 30% based on ASHRAE 52.1-1992. Replace air filters immediately prior to occupancy, or, if the building is occupied during alteration, at the conclusion of construction. 5.504.3 Covering of duct openings and protection of mechanical equipment during construction. At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilation equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.																										
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5.410.4.3.1 HVAC balancing. In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards, the National Environmental Balancing Bureau Procedural Standards, Associated Air Balance Council National Standards or as approved by the enforcing agency.																										
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5.504.3 Covering of duct openings and protection of mechanical equipment during construction. At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilation equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.																										
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ACCESSIBLE WALK NOTES:
DEMOLISH EXISTING WALK/RAMP AND PROVIDE NEW ACCESSIBLE WALK
IN SAME LOCATION. WALK SHALL HAVE MINIMUM 5% SLOPE IN THE
DIRECTION OF TRAVEL AND 2% MAX CROSS SLOPE.

NOTIFY DESIGNER IF SLOPE WHEN LAID OUT EXCEEDS 5% (1:20)



1 ENLARGED ACCESSIBLE WALK

SCALE = 1/8" = 1'-0"

PARKING CALCULATIONS

BUILDING AREA (S.F.)	43,286 SF
PARKING SPACES REQUIRED/S.F.	1/250
REQUIRED PARKING SPACES	125
PARKING SPACES PROVIDED	125
PUBLIC PARKING SPACES	57
(3) ACCESSIBLE SPACES INCLUDING (1) VAN	(3) SPACES W/ (1) VAN PROVIDED
CONTROLLED PARKING AREAS**	68
ACTIVE DUTY EMPLOYEE	48
(1) VAN ACCESSIBLE SPACE	(0) PROVIDED
SALLY PORT PARKING SPACES	21
(1) VAN ACCESSIBLE SPACE	(2) SPACES, (1) VAN PROVIDED
TOTAL REQUIRED (5) SPACES (3) VAN	(5) SPACES W/ (2) VAN PROVIDED

**ACCESSIBLE PARKING AT POLICE DEPARTMENT NOT REQUIRED PER 2010 ADAS WHICH IS THE APPLICABLE CODE FOR THE ACTIVE DUTY POLICE PARKING AREA BEHIND THE CONTROLLED GATES. THE PARKING SERVING THE AREA OF PUBLIC ACCOMMODATION AND ADMINISTRATIVE STAFF HAVE MEET CURRENT CODE REQUIREMENTS. NEW PARKING PLAN SHALL BE ADDRESSED WITH PARKING LOT SEAL AND RE-STRIPE WORK IN FUTURE PER CBC 2022 CHIT 11B.

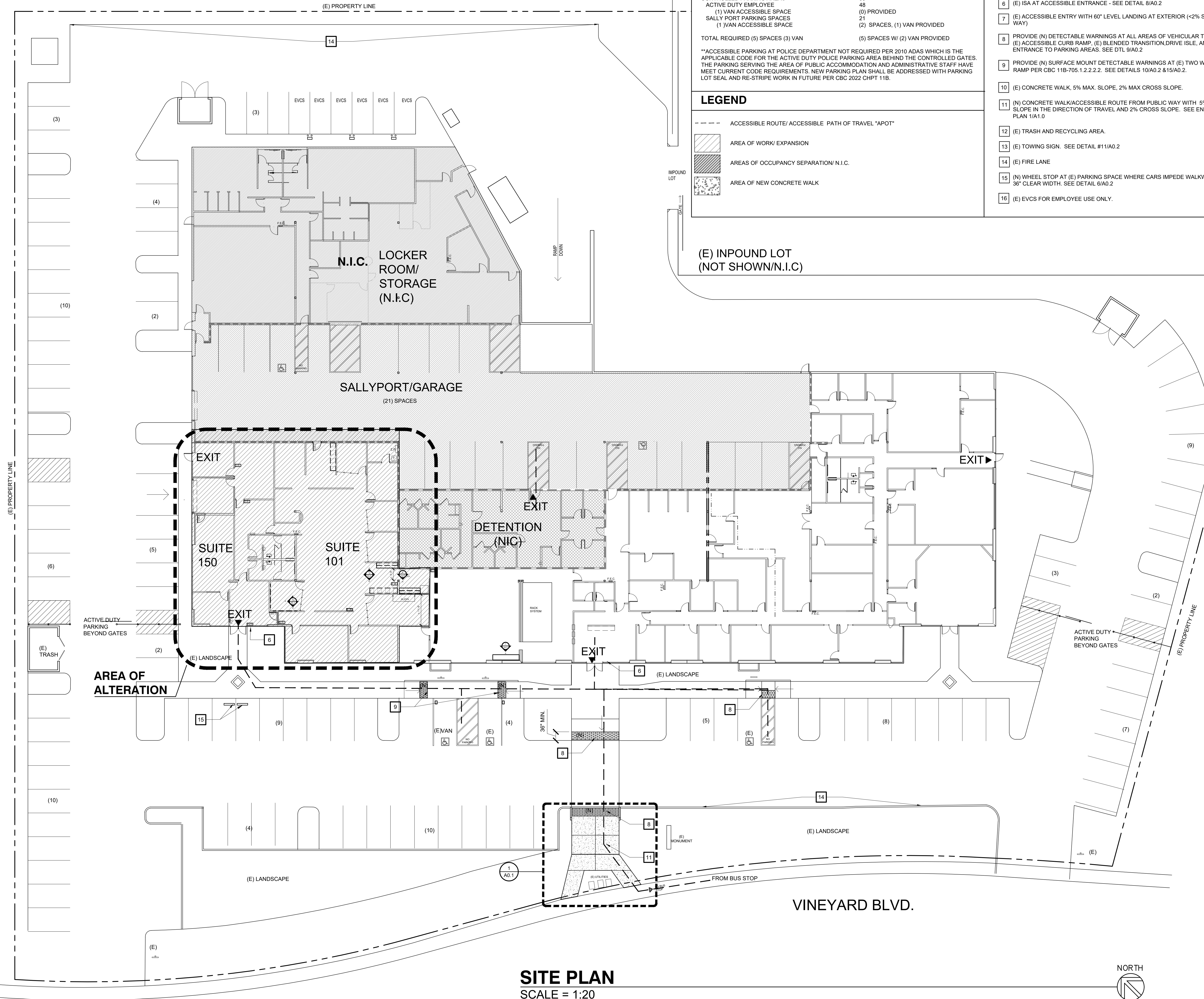
LEGEND

- ACCESSIBLE ROUTE/ ACCESSIBLE PATH OF TRAVEL "APOT"
- AREA OF WORK/ EXPANSION
- AREAS OF OCCUPANCY SEPARATION/ N.I.C.
- AREA OF NEW CONCRETE WALK

SHEET NOTES

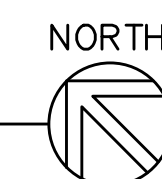
- (E) -- -- ACCESSIBLE ROUTE/PATH OF TRAVEL TO THE AREA OF WORK
- (E) ACCESSIBLE PARKING SPACE
- (E) ACCESSIBLE VAN PARKING SPACE
- (E) PAINTED ACCESS ISLE; DIAGONAL STRIPES @ 3'-0" O.C.
- (E) POLE MOUNTED ACCESSIBLE PARKING SIGN; MOVE "VAN" SIGN TO HEAD OF "VAN ACCESSIBLE SPACE"
- (E) ISA AT ACCESSIBLE ENTRANCE - SEE DETAIL 8/A0.2
- (E) ACCESSIBLE ENTRY WITH 60" LEVEL LANDING AT EXTERIOR (<2% SLOPE EA. WAY)
- PROVIDE (N) DETECTABLE WARNINGS AT ALL AREAS OF VEHICULAR TRAFFIC: (E) ACCESSIBLE CURB RAMP, (E) BLENDED TRANSITION DRIVE ISLE, AND ENTRANCE TO PARKING AREAS. SEE DET. 8/A0.2
- PROVIDE (N) SURFACE MOUNT DETECTABLE WARNINGS AT (E) TWO WAY CURB RAMP PER CBC 11B-705.1.2.2.2.2. SEE DETAILS 10/A0.2 & 15/A0.2
- (E) CONCRETE WALK, 5% MAX. SLOPE, 2% MAX CROSS SLOPE.
- (N) CONCRETE WALK/ACCESSIBLE ROUTE FROM PUBLIC WAY WITH 5% MAX SLOPE IN THE DIRECTION OF TRAVEL AND 2% CROSS SLOPE. SEE ENLARGED PLAN 1/A1.0
- (E) TRASH AND RECYCLING AREA.
- (E) TOWING SIGN. SEE DETAIL #11/A0.2
- (E) FIRE LANE
- (N) WHEEL STOP AT (E) PARKING SPACE WHERE CARS IMPEDE WALKWAY MIN. 96" CLEAR WIDTH. SEE DETAIL 6/A0.2
- (E) EVCS FOR EMPLOYEE USE ONLY.

(E) INPOUND LOT
(NOT SHOWN/N.I.C)

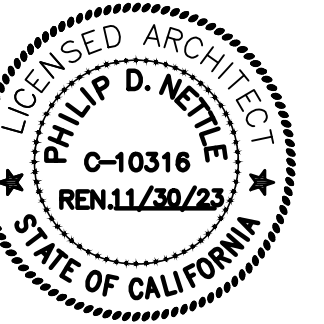


SITE PLAN

SCALE = 1:20



ARTFUL ENVIRONMENT, LLC
2782 Plummer Ave.
San Jose, CA 95125
408.318.0226
www.artfulenvironment.com



PHILLIP D. NETTLE, ARCHITECT
LIC: C-10316 EXP 11/30/2023
526 Shorebird Circle #16105
Redwood City, CA 94065

Phillip D. Nettle

MORGAN HILL POLICE
DEPARTMENT EXPANSION

16200 VINEYARD BLVD.
MORGAN HILL, CA 95037

10/06/2023 SUBMIT FOR PLAN CHECK

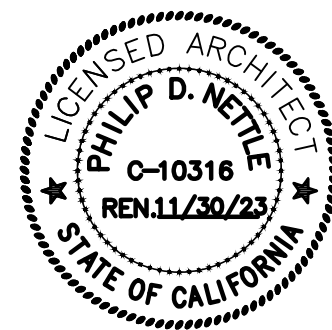
DRAWING TITLE:
SITE PLAN, ACCESSIBLE
ROUTE & ENLARGED
ACCESSIBLE WALK

DRAWING NO.:
A0.1

SCALE: AS NOTED



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DEPARTMENT EXPANSION

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MORGAN HILL, CA 95037

10/06/2023 SUBMIT FOR PLAN CHECK

DRAWING TITLE:

2022 CALGREEN
CHECKLIST

DRAWING NO.:

GB3

SCALE: AS NOTED

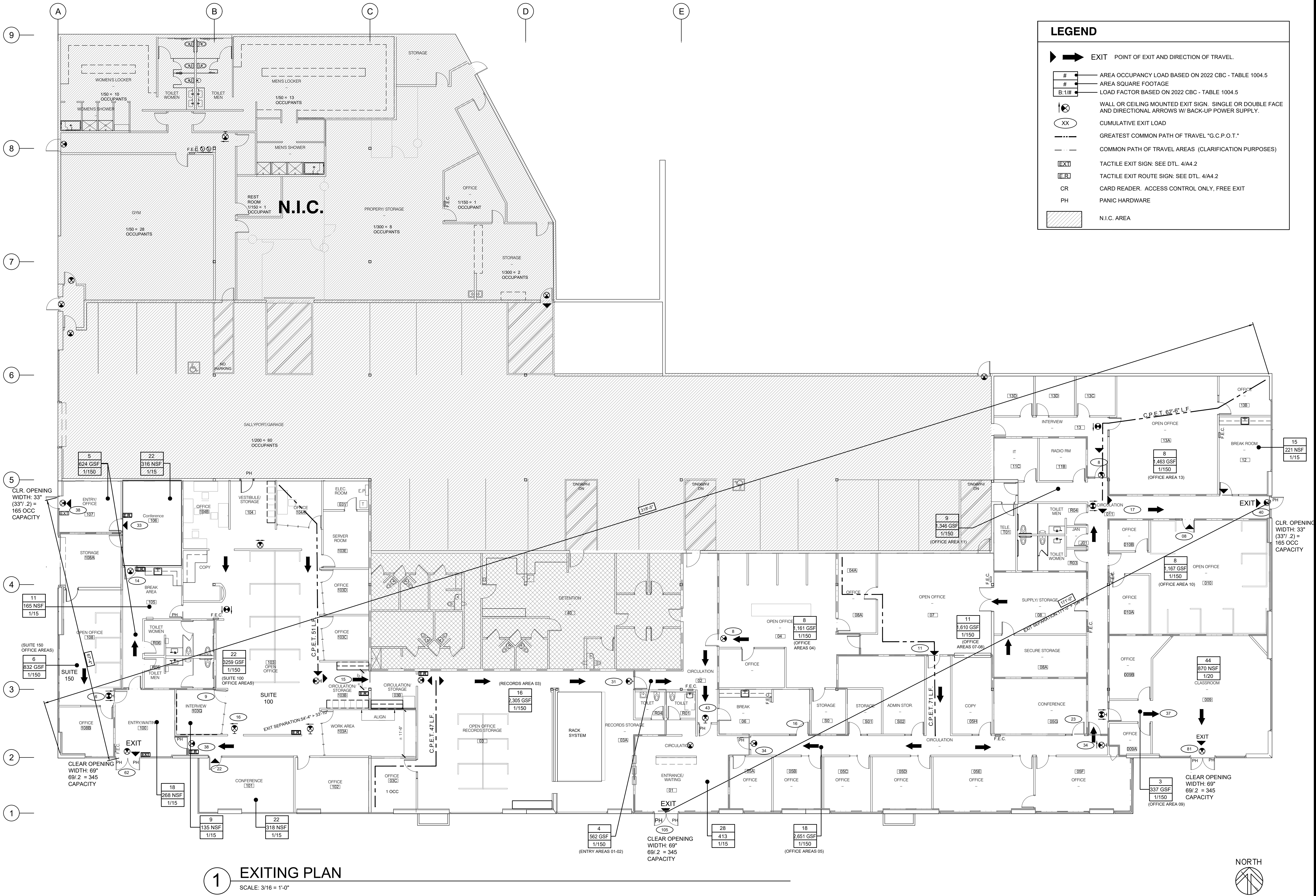
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE NONRESIDENTIAL MANDATORY MEASURES, SHEET 3 (January 2023)

<div><div><div>Y</div><div>N/A</div><div>RESPON PARTY</div></div><div><div>X</div><div></div><div>CONTR</div></div></div> <div>5.504.4 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.5.</div> <div>5.504.4.1 Adhesives, sealants and caulks. Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards: 1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products as specified in subsection 2, below. 2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17, commencing with Section 94507.</div> <div>TABLE 5.504.4.1 - ADHESIVE VOC LIMIT^{1,2}<table><tr><th colspan="2">Less Water and Less Exempt Compounds in Grams per Liter</th></tr><tr><th>ARCHITECTURAL APPLICATIONS</th><th>CURRENT VOC LIMIT</th></tr><tr><td>INDOOR CARPET ADHESIVES</td><td>50</td></tr><tr><td>CARPET PAD ADHESIVES</td><td>50</td></tr><tr><td>OUTDOOR CARPET ADHESIVES</td><td>150</td></tr><tr><td>WOOD FLOORING ADHESIVES</td><td>100</td></tr><tr><td>RUBBER FLOOR ADHESIVES</td><td>60</td></tr><tr><td>SUBFLOOR ADHESIVES</td><td>50</td></tr><tr><td>CERAMIC TILE ADHESIVES</td><td>65</td></tr><tr><td>VCT & ASPHALT TILE ADHESIVES</td><td>50</td></tr><tr><td>DRYWALL & PANEL ADHESIVES</td><td>50</td></tr><tr><td>COVE BASE ADHESIVES</td><td>50</td></tr><tr><td>MULTIPURPOSE CONSTRUCTION ADHESIVES</td><td>70</td></tr><tr><td>STRUCTURAL GLAZING ADHESIVES</td><td>100</td></tr><tr><td>SINGLE-PLY ROOF MEMBRANE ADHESIVES</td><td>250</td></tr><tr><td>OTHER ADHESIVES NOT SPECIFICALLY LISTED</td><td>50</td></tr><tr><td colspan="2">SPECIALTY APPLICATIONS</td></tr><tr><td>PVC WELDING</td><td>510</td></tr><tr><td>CPVC WELDING</td><td>490</td></tr><tr><td>ABS WELDING</td><td>325</td></tr><tr><td>PLASTIC CEMENT WELDING</td><td>250</td></tr><tr><td>ADHESIVE PRIMER FOR PLASTIC</td><td>550</td></tr><tr><td>CONTACT ADHESIVE</td><td>80</td></tr><tr><td>SPECIAL PURPOSE CONTACT ADHESIVE</td><td>250</td></tr><tr><td>STRUCTURAL WOOD MEMBER ADHESIVE</td><td>140</td></tr><tr><td>TOP & TRIM ADHESIVE</td><td>250</td></tr><tr><td colspan="2">SUBSTRATE SPECIFIC APPLICATIONS</td></tr><tr><td>METAL TO METAL</td><td>30</td></tr><tr><td>PLASTIC FOAMS</td><td>50</td></tr><tr><td>POROUS MATERIAL (EXCEPT WOOD)</td><td>50</td></tr><tr><td>WOOD</td><td>30</td></tr><tr><td>FIBERGLASS</td><td>80</td></tr></table><p>1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.</p><p>2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168, www.arb.ca.gov/DORB/SC/CURHTM/LR1168.PDF</p></div> <div>TABLE 5.504.4.2 - SEALANT VOC LIMIT<table><tr><th colspan="2">Less Water and Less Exempt Compounds in Grams per Liter</th></tr><tr><th>SEALANTS</th><th>CURRENT VOC LIMIT</th></tr><tr><td>ARCHITECTURAL</td><td>250</td></tr><tr><td>MARINE DECK</td><td>760</td></tr><tr><td>NONMEMBRANE ROOF</td><td>300</td></tr><tr><td>ROADWAY</td><td>250</td></tr><tr><td>SINGLE-PLY ROOF MEMBRANE</td><td>450</td></tr><tr><td>OTHER</td><td>420</td></tr><tr><td colspan="2">SEALANT PRIMERS</td></tr><tr><td>ARCHITECTURAL</td><td></td></tr><tr><td>NONPOROUS</td><td>250</td></tr><tr><td>POROUS</td><td>775</td></tr><tr><td>MODIFIED BITUMINOUS</td><td>500</td></tr><tr><td>MARINE DECK</td><td>760</td></tr><tr><td>OTHER</td><td>750</td></tr></table><p>NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.</p><p>5.504.4.3 Paints and coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.35 and 4.37 of the 2007 California Air Resources Board Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply.</p><p>5.504.4.3.1 Aerosol Paints and coatings. Aerosol paints and coatings shall meet the PWMIR Limits for ROG in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) of California Code of Regulations, Title 17, commencing with Section 94520, and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49.</p></div>	Less Water and Less Exempt Compounds in Grams per Liter		ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT	INDOOR CARPET ADHESIVES	50	CARPET PAD ADHESIVES	50	OUTDOOR CARPET ADHESIVES	150	WOOD FLOORING ADHESIVES	100	RUBBER FLOOR ADHESIVES	60	SUBFLOOR ADHESIVES	50	CERAMIC TILE ADHESIVES	65	VCT & ASPHALT TILE ADHESIVES	50	DRYWALL & PANEL ADHESIVES	50	COVE BASE ADHESIVES	50	MULTIPURPOSE CONSTRUCTION ADHESIVES	70	STRUCTURAL GLAZING ADHESIVES	100	SINGLE-PLY ROOF MEMBRANE ADHESIVES	250	OTHER ADHESIVES NOT SPECIFICALLY LISTED	50	SPECIALTY APPLICATIONS		PVC WELDING	510	CPVC WELDING	490	ABS WELDING	325	PLASTIC CEMENT WELDING	250	ADHESIVE PRIMER FOR PLASTIC	550	CONTACT ADHESIVE	80	SPECIAL PURPOSE CONTACT ADHESIVE	250	STRUCTURAL WOOD MEMBER ADHESIVE	140	TOP & TRIM ADHESIVE	250	SUBSTRATE SPECIFIC APPLICATIONS		METAL TO METAL	30	PLASTIC FOAMS	50	POROUS MATERIAL (EXCEPT WOOD)	50	WOOD	30	FIBERGLASS	80	Less Water and Less Exempt Compounds in Grams per Liter		SEALANTS	CURRENT VOC LIMIT	ARCHITECTURAL	250	MARINE DECK	760	NONMEMBRANE ROOF	300	ROADWAY	250	SINGLE-PLY ROOF MEMBRANE	450	OTHER	420	SEALANT PRIMERS		ARCHITECTURAL		NONPOROUS	250	POROUS	775	MODIFIED BITUMINOUS	500	MARINE DECK	760	OTHER	750	<div><div><div>Y</div><div>N/A</div><div>RESPON PARTY</div></div><div><div>X</div><div></div><div>CONTR</div></div></div> <div>TABLE 5.504.4.3 - CONT.<table><tr><th colspan="2">GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS</th></tr><tr><th>COATING CATEGORY</th><th>CURRENT VOC LIMIT</th></tr><tr><td colspan="2">SPECIALTY COATINGS</td></tr><tr><td>ALUMINUM ROOF COATINGS</td><td>400</td></tr><tr><td>BASEMENT SPECIALTY COATINGS</td><td>400</td></tr><tr><td>BITUMINOUS ROOF COATINGS</td><td>50</td></tr><tr><td>BITUMINOUS ROOF PRIMERS</td><td>350</td></tr><tr><td>BOND BREAKERS</td><td>350</td></tr><tr><td>CONCRETE CURING COMPOUNDS</td><td>350</td></tr><tr><td>CONCRETE/MASONRY SEALERS</td><td>100</td></tr><tr><td>DRIVEWAY SEALERS</td><td>50</td></tr><tr><td>DRY FOG COATINGS</td><td>150</td></tr><tr><td>FAUX FINISHING COATINGS</td><td>350</td></tr><tr><td>FIRE RESISTIVE COATINGS</td><td>350</td></tr><tr><td>FLOOR COATINGS</td><td>100</td></tr><tr><td>FORM-RELEASE COMPOUNDS</td><td>250</td></tr><tr><td>GRAPHIC ARTS COATINGS (SIGN PAINTS)</td><td>500</td></tr><tr><td>HIGH-TEMPERATURE COATINGS</td><td>420</td></tr><tr><td>INDUSTRIAL MAINTENANCE COATINGS</td><td>250</td></tr><tr><td>LOW SOLIDS COATINGS¹</td><td>120</td></tr><tr><td>MAGNESITE CEMENT COATINGS</td><td>450</td></tr><tr><td>MASTIC TEXTURE COATINGS</td><td>100</td></tr><tr><td>METALLIC PIGMENTED COATINGS</td><td>500</td></tr><tr><td>MULTICOLOR COATINGS</td><td>250</td></tr><tr><td>PRETREATMENT WASH PRIMERS</td><td>420</td></tr><tr><td>PRIMERS, SEALERS, & UNDERCOATERS</td><td>100</td></tr><tr><td>REACTIVE PENETRATING SEALERS</td><td>350</td></tr><tr><td>RECYCLED COATINGS</td><td>250</td></tr><tr><td>ROOF COATINGS</td><td>50</td></tr><tr><td>RUST PREVENTATIVE COATINGS</td><td>250</td></tr><tr><td>SHELLACS:</td><td></td></tr><tr><td>CLEAR</td><td>730</td></tr><tr><td>OPAQUE</td><td>550</td></tr><tr><td>SPECIALTY PRIMERS, SEALERS & UNDERCOATERS</td><td>100</td></tr><tr><td>STAINS</td><td>250</td></tr><tr><td>STONE CONSOLIDANTS</td><td>450</td></tr><tr><td>SWIMMING POOL COATINGS</td><td>340</td></tr><tr><td>TRAFFIC MARKING COATINGS</td><td>100</td></tr><tr><td>TUB & TILE REFINISH COATINGS</td><td>420</td></tr><tr><td>WATERPROOFING MEMBRANES</td><td>250</td></tr><tr><td>WOOD COATINGS</td><td>275</td></tr><tr><td>WOOD PRESERVATIVES</td><td>350</td></tr><tr><td>ZINC-RICH PRIMERS</td><td>340</td></tr></table><p>1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS</p><p>2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE</p><p>3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.</p><p>5.504.4.3.2 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following: 1. Manufacturer's product specification 2. Field verification of on-site product containers</p><p>5.504.4.4 Carpet Systems. All carpet installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specifications 01350).</p><p>See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CDPH/PID/DCDC/EHLB/IAQ/Pages/VOC.aspx#material</p><p>5.504.4.4.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specifications 01350).</p><p>See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CDPH/PID/DCDC/EHLB/IAQ/Pages/VOC.aspx#material</p><p>5.504.4.4.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 5.504.4.1.</p><p>5.504.4.5 Composite wood products. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120 et seq.). Those materials not exempted under the ATCM must meet the specified emission limits, as shown in Table 5.504.4.5.</p><p>5.504.4.5.3 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following: 1. Product certifications and specifications. 2. Chain of custody certifications. 3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.). 4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269 or European 636 3S standards. 5. Other methods acceptable to the enforcing agency.</p></div> <div>TABLE 5.504.4.5 - FORMALDEHYDE LIMITS<table><tr><th colspan="2">MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION</th></tr><tr><th>PRODUCT</th><th>CURRENT LIMIT</th></tr><tr><td>HARDWOOD PLYWOOD VENEER CORE</td><td>0.05</td></tr><tr><td>HARDWOOD PLYWOOD COMPOSITE CORE</td><td>0.05</td></tr><tr><td>PARTICLE BOARD</td><td>0.09</td></tr><tr><td>MEDIUM DENSITY FIBERBOARD</td><td>0.11</td></tr><tr><td>THIN MEDIUM DENSITY FIBERBOARD²</td><td>0.13</td></tr></table><p>1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.</p><p>2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 9/16 INCHES (8 MM).</p></div>	GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS		COATING CATEGORY	CURRENT VOC LIMIT	SPECIALTY COATINGS		ALUMINUM ROOF COATINGS	400	BASEMENT SPECIALTY COATINGS	400	BITUMINOUS ROOF COATINGS	50	BITUMINOUS ROOF PRIMERS	350	BOND BREAKERS	350	CONCRETE CURING COMPOUNDS	350	CONCRETE/MASONRY SEALERS	100	DRIVEWAY SEALERS	50	DRY FOG COATINGS	150	FAUX FINISHING COATINGS	350	FIRE RESISTIVE COATINGS	350	FLOOR COATINGS	100	FORM-RELEASE COMPOUNDS	250	GRAPHIC ARTS COATINGS (SIGN PAINTS)	500	HIGH-TEMPERATURE COATINGS	420	INDUSTRIAL MAINTENANCE COATINGS	250	LOW SOLIDS COATINGS ¹	120	MAGNESITE CEMENT COATINGS	450	MASTIC TEXTURE COATINGS	100	METALLIC PIGMENTED COATINGS	500	MULTICOLOR COATINGS	250	PRETREATMENT WASH PRIMERS	420	PRIMERS, SEALERS, & UNDERCOATERS	100	REACTIVE PENETRATING SEALERS	350	RECYCLED COATINGS	250	ROOF COATINGS	50	RUST PREVENTATIVE COATINGS	250	SHELLACS:		CLEAR	730	OPAQUE	550	SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100	STAINS	250	STONE CONSOLIDANTS	450	SWIMMING POOL COATINGS	340	TRAFFIC MARKING COATINGS	100	TUB & TILE REFINISH COATINGS	420	WATERPROOFING MEMBRANES	250	WOOD COATINGS	275	WOOD PRESERVATIVES	350	ZINC-RICH PRIMERS	340	MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION		PRODUCT	CURRENT LIMIT	HARDWOOD PLYWOOD VENEER CORE	0.05	HARDWOOD PLYWOOD COMPOSITE CORE	0.05	PARTICLE BOARD	0.09	MEDIUM DENSITY FIBERBOARD	0.11	THIN MEDIUM DENSITY FIBERBOARD ²	0.13	<div><div><div>Y</div><div>N/A</div><div>RESPON PARTY</div></div><div><div>X</div><div></div><div>CONTR</div></div></div> <div>5.504.4.6 Resilient flooring systems. Where resilient flooring is installed, at least 80 percent of floor area receiving resilient flooring shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specifications 01350).</div> <div>See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CDPH/PID/DCDC/EHLB/IAQ/Pages/VOC.aspx#material</div> <div>5.504.4.6.1 Verification of compliance. Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits.</div> <div>5.504.4.7 Thermal insulation Comply with the requirements of the California Department of Public Health, "Standard Method of the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 1.2, January 2017 (Emission testing method for California Specification 01350). See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CDPH/PID/DCDC/EHLB/IAQ/Pages/VOC.aspx#material</div> <div>5.504.4.7.1 Verification of compliance. Documentation shall be provided verifying that thermal insulation materials meet the pollutant emission limits.</div> <div>5.504.4.8 Acoustical ceiling and wall panels. Comply with the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01350). See California Department of Public Health's website for certification programs and testing labs.</div> <div>5.504.4.8.1 Verification of compliance. Documentation shall be provided verifying that acoustical finish materials meet the pollutant emission limits.</div> <div>5.504.5.3 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV) of 13. MERV 13 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.</div> <div>Exceptions: Existing mechanical equipment.</div> <div>5.504.5.3.1 Labeling. Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.</div> <div>5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL. Where outdoor areas are provided for smoking, prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows and within the building as already prohibited by other laws or regulations; or as enforced by ordinances, regulations or policies of any city, county, city and county, California Community College, campus of the California State University, or campus of the University of California, whichever are more stringent. When ordinances, regulations or policies are not in place, post signage to inform building occupants of the prohibitions.</div> <div>SECTION 5.505 INDOOR MOISTURE CONTROL<p>5.505.1 INDOOR MOISTURE CONTROL. Buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see Section 5.407.2 of this code.</p><p>SECTION 5.506 INDOOR AIR QUALITY<p>5.506.1 OUTSIDE AIR DELIVERY. For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements For Ventilation) of the California Energy Code, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.</p><p>5.506.2 CARBON DIOXIDE (CO₂) MONITORING. For buildings or additions equipped with demand control ventilation, CO₂ sensors and ventilation controls shall be specified and installed in accordance with the requirements of the California Energy Code, Section 120(c)(4).</p><p>5.506.3 Carbon dioxide (CO₂) monitoring in classrooms. [DBA-SS] Each public K-12 school classroom, as listed in Table 120.1-A of the California Energy Code, shall be equipped with a carbon dioxide monitor or sensor that meets the following requirements: 1. The monitor or sensor shall be permanently affixed in a tamper-proof manner in each classroom between 3 and 6 feet (914 mm and 1829 mm) above the floor and at least 5 feet (1524 mm) away from door and operable windows. 2. When the monitor or sensor is not integral to an Energy Management Control System (EMCS), the monitor or sensor shall display the carbon dioxide readings on the device. When the sensor is integral to an EMCS, the carbon dioxide readings shall be available to and regularly monitored by facility personnel. 3. A monitor shall provide notification through a visual indicator on the monitor when the carbon dioxide levels in the classroom have exceeded 1,100ppm. A sensor integral to an EMCS shall provide notification to facility personnel through a visual and/or audible indicator when the carbon dioxide levels in the classroom have exceeded 1,100ppm. 4. The monitor or sensor shall measure carbon dioxide levels at minimum 15-minute intervals and shall maintain a record of previous carbon dioxide measurements of not less than 30 days duration. 5. The monitor or sensor used to measure carbon dioxide levels shall have the capacity to measure carbon dioxide levels with a range of 400ppm to 2000ppm or greater. 6. The monitor or sensor shall be certified by the manufacturer to be accurate within 75ppm at 1,000ppm carbon dioxide concentration and shall be certified by the manufacturer to require calibration no more frequently than once every 5 years.</p><p>SECTION 5.507 ENVIRONMENTAL COMFORT<p>5.507.4 ACOUSTICAL CHAMBER TESTS. Empty building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E 90 and ASTM E 413, or Outdoor-Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E 1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.</p><p>Exception: Buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings.</p><p>Exception: [DBA-SS] For public schools and community colleges, the requirements of this section and all subsections apply only to new construction.</p><p>5.507.4.1 Exterior noise transmission, prescriptive method. Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations: 1. Within the 65 CNEL noise contour of an airport.</p><p>Exceptions: 1. L_n or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICLIZ) plan. 2. L_n or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element.</p><p>2. Within the 65 CNEL or L_n noise contour of a freeway or expressway, railroad, industrial source or fixed-guideway source as determined by the Noise Element of the General Plan.</p><p>5.507.4.1.1 Noise exposure where noise contours are not readily available. Buildings exposed to a noise level of 65 dB L_n, 1-hr during any hour of operation shall have building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).</p><p>5.507.4.2 Performance Method. For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (Leq-1Hr) of 50 dBA in occupied areas during any hour of operation.</p><p>5.507.4.2.1 Site Features. Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.</p><p>5.507.4.2.2 Documentation of Compliance. An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.</p><p>5.507.4.3 Interior sound transmission. Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.</p><p>Note: Examples of assemblies and their various STC ratings may be found at the California Office of Noise Control: www.tolnoise.org/PDF/CasStudies/slc_ice_ratings.pdf.</p><p>SECTION 5.508 OUTDOOR AIR QUALITY<p>5.508.1 Ozone depletion and greenhouse gas reductions. Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.</p><p>5.508.1.1 Chlorofluorocarbons (CFCs). Install HVAC, refrigeration and fire suppression equipment that do not contain CFCs.</p><p>5.508.1.2 Halons. Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.</p></p></p></p></div>	<div><div><div>Y</div><div>N/A</div><div>RESPON PARTY</div></div><div><div>X</div><div></div><div>CONTR</div></div></div> <div>5.508.2 Supermarket refrigerant leak reduction. New commercial refrigeration systems shall comply with the provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.</div> <div>Exception: Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO₂), and potentially other refrigerants.</div> <div>5.508.2.1 Refrigerant piping. Piping compliant with the California Mechanical Code shall be installed to be accessible for leak protection and repairs. Piping runs using threaded pipe, copper tubing with an outside diameter (OD) less than 1/4 inch, flared tubing connections and short radius elbows shall not be used in refrigeration systems except as noted below.</div> <div>5.508.2.1.1 Threaded pipe. Threaded connections are permitted at the compressor rack.</div> <div>5.508.2.1.2 Copper pipe. Copper tubing with an OD less than 1/4 inch may be used in systems with a refrigerant charge of 5 pounds or less.</div> <div>5.508.2.1.2.1 Anchorage. One-fourth-inch OD tubing shall be securely clamped to a rigid base to keep vibration levels below 8 mils.</div> <div>5.508.2.1.3 Flared tubing connections. Double-flared tubing connections may be used for pressure controls, valve pilot lines and oil.</div> <div>Exception: Single-flared tubing connections may be used with a multiring seal coated with industrial sealant suitable for use with refrigerants and tightened in accordance with manufacturer's recommendations.</div> <div>5.508.2.1.4 Elbows. Short radius elbows are only permitted where space limitations prohibit use of long radius elbows.</div> <div>5.508.2.2 Valves. Valves Valves and fittings shall comply with the California Mechanical Code and as follows.</div> <div>5.508.2.2.1 Pressure relief valves. For vessels containing high-GWP refrigerant, a rupture disc shall be installed between the outlet of the vessel and the inlet of the pressure relief valve.</div> <div>5.508.2.2.1.1 Pressure detection. A pressure gauge, pressure transducer or other device shall be installed in the space between the rupture disc and the relief valve inlet to indicate a disc rupture or discharge of the relief valve.</div> <div>5.508.2.2.2 Access valves. Only Schrader access valves with a brass or steel body are permitted for use.</div> <div>5.508.2.2.2.1 Valve caps. For systems with a refrigerant charge of 5 pounds or more, valve caps shall be brass or steel and not plastic.</div> <div>5.508.2.2.2.2 Seal caps. If designed for it, the cap shall have a neoprene O-ring in place.</div> <div>5.508.2.2.2.2.1 Chain levers. Chain levers to fit over the stem are required for valves designed to have seal caps.</div> <div>Exception: Valves with seal caps that are not removed from the valve during stem operation.</div> <div>5.508.2.3 Refrigerated service cases. Refrigerated service cases holding food products containing vinegar and salt shall have evaporator coils of corrosion-resistant material, such as stainless steel, or be coated to prevent corrosion from these substances.</div> <div>5.508.2.3.1 Coil coating. Consideration shall be given to the heat transfer efficiency of coil coating to maximize energy efficiency.</div> <div>5.508.2.4 Refrigerant receivers. Refrigerant receivers with capacities greater than 200 pounds shall be fitted with a device that indicates the level of refrigerant in the receiver.</div> <div>5.508.2.5 Pressure testing. The system shall be pressure tested during installation prior to evacuation and charging.</div> <div>5.508.2.5.1 Minimum pressure. The system shall be charged with regulated dry nitrogen and appropriate tracer gas to bring system pressure up to 300 psig minimum.</div> <div>5.508.2.5.2 Leaks. Check the system for leaks, repair any leaks, and retest for pressure using the same gauge.</div> <div>5.508.2.5.3 Allowable pressure change. The system shall stand, unaltered, for 24 hours with no more than a +/- one pound pressure change from 300 psig, measured with the same gauge.</div> <div>5.508.2.6 Evacuation. The system shall be evacuated after pressure testing and prior to charging.</div> <div>5.508.2.6.1 First vacuum. Pull a system vacuum down to at least 1000 microns (+/- 50 microns), and hold for 30 minutes.</div> <div>5.508.2.6.2 Second vacuum. Pull a second system vacuum to a minimum of 500 microns and hold for 30 minutes.</div> <div>5.508.2.6.3 Third vacuum. Pull a third vacuum down to a minimum of 300 microns, and hold for 24 hours with a maximum drift of 100 microns over a 24-hour period.</div> <div>CHAPTER 7 INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS<p>702 QUALIFICATIONS<p>702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following: 1. State certified apprenticeship programs. 2. Public utility training programs. 3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations. 4. Programs sponsored by manufacturing organizations. 5. Other programs acceptable to the enforcing agency.</p><p>702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector: 1. Certification by a national or regional green building program or standard publisher. 2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors. 3. Successful completion of a third party apprentice training program in the appropriate trade. 4. Other programs acceptable to the enforcing agency.</p><p>Notes: 1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code. 2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).</p><p>[BSC-CG] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.</p><p>Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.</p><p>703 VERIFICATIONS<p>703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.</p></p></p></div>
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FIRE RESISTIVE COATINGS	350																																																																																																																																																																																																				
FLOOR COATINGS	100																																																																																																																																																																																																				
FORM-RELEASE COMPOUNDS	250																																																																																																																																																																																																				
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500																																																																																																																																																																																																				
HIGH-TEMPERATURE COATINGS	420																																																																																																																																																																																																				
INDUSTRIAL MAINTENANCE COATINGS	250																																																																																																																																																																																																				
LOW SOLIDS COATINGS ¹	120																																																																																																																																																																																																				
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MASTIC TEXTURE COATINGS	100																																																																																																																																																																																																				
METALLIC PIGMENTED COATINGS	500																																																																																																																																																																																																				
MULTICOLOR COATINGS	250																																																																																																																																																																																																				
PRETREATMENT WASH PRIMERS	420																																																																																																																																																																																																				
PRIMERS, SEALERS, & UNDERCOATERS	100																																																																																																																																																																																																				
REACTIVE PENETRATING SEALERS	350																																																																																																																																																																																																				
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OPAQUE	550																																																																																																																																																																																																				
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100																																																																																																																																																																																																				
STAINS	250																																																																																																																																																																																																				
STONE CONSOLIDANTS	450																																																																																																																																																																																																				
SWIMMING POOL COATINGS	340																																																																																																																																																																																																				
TRAFFIC MARKING COATINGS	100																																																																																																																																																																																																				
TUB & TILE REFINISH COATINGS	420																																																																																																																																																																																																				
WATERPROOFING MEMBRANES	250																																																																																																																																																																																																				
WOOD COATINGS	275																																																																																																																																																																																																				
WOOD PRESERVATIVES	350																																																																																																																																																																																																				
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HARDWOOD PLYWOOD VENEER CORE	0.05																																																																																																																																																																																																				
HARDWOOD PLYWOOD COMPOSITE CORE	0.05																																																																																																																																																																																																				
PARTICLE BOARD	0.09																																																																																																																																																																																																				
MEDIUM DENSITY FIBERBOARD	0.11																																																																																																																																																																																																				
THIN MEDIUM DENSITY FIBERBOARD ²	0.13																																																																																																																																																																																																				

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

CUMULATIVE OCCUPANT LOAD TABLE

RM NO		GSF/NSF	OCC	OLF
100	ENTRY/WAITING	268 NSF	18	1:15
	SUB TOT	18		
	SUITE 100 OFFICE AREAS	3259 GSF	22	1:150
101	CONFERENCE	318 NSF	22	1:15
102	OFFICE			
103A	WORK AREA			
103B	CIRC/STORAGE			
103C	OFFICE			
103D	OFFICE			
103E	SERVER			
103G	INTERVIEW	135	9	1:15
104A	OPEN OFFICE			
104	CIRC/STORAGE			
104B	OFFICE			
E01	ELEC. ROOM			
	SUB TOT:	53		
107	OFFICE/ENTRY	624 GSF	5	1:150
R05	TOILET MEN			
R06	TOILET WOMEN			
105	BREAK	166 NSF	11	1:15
106	CONFERENCE	316 NSF	22	1:15
	CUMULATIVE EGRESS SUB TOT:	38		
	SUITE 150 OFFICE AREAS	832 GSF	6	1:150
108	OFFICE			
108A	LOADING/STORAGE			
108B	OFFICE			
	SUB TOT:	6		
	TOTAL OCCUPANTS AREA OF WORK:	115		
	AREA NOT IN CONTRACT			
	ENTRY AREAS 01-02	562 GSF	4	1:150
01	ENTRY/WAITING	413 NSF	28	1:15
R01	GEN NEUTRAL TOILET			
02	CIRCULATION			
	SUB TOT:	32		
	RECORDS AREA 03	2305 GSF	16	1:150
2	RECORDS STORAGE			
R04	TOILET			
03	OPEN OFFICE			
03A	CIRC/STORAGE			
03B	OFFICE			
	SUB TOT:	16		
	OFFICE AREA 04	1161 GSF	8	1:150
04	OPEN OFFICE			
04A	OFFICE			
	SUB TOT:	8		
	OFFICE AREA 05	2651 GSF	18	1:150
05A	OFFICE			
05B	OFFICE			
05C	OFFICE			
05D	OFFICE			
05E	OFFICE			
05F	OFFICE			
05G	CONFERENCE	343 NSF	23	1:15
06	BREAK	229 NSF	16	1:15
05H	COPY			
	SUB TOT:	57		
	OFFICE AREA 07-08	1610 GSF	11	1:150
07	OPEN OFFICE			
07A	OFFICE			
08	SUPPLY			
08A	SECURE STORAGE			
	SUB TOT:	11		
	OFFICE AREA 09	337 GSF	3	1:150
9	CLASSROOM	870 NSF	44	1:20
09A	OFFICE			
09B	OFFICE			
	SUB TOT:	47		
	OFFICE AREA 10	1167 GSF	8	1:150
10	OPEN OFFICE			
10A	OFFICE			
10B	OFFICE			
	SUB TOT:	8		
	OFFICE AREA 11	1346 GSF	9	1:150
11	CIRC			
11A	RADIO ROOM			
11B	IT			
T01	TELE			
R03	WOMEN			
R04	MEN			
J01	JANITOR			
12	BREAK	221 NSF	15	1:15
	SUB TOT:	24		
	OFFICE AREA 13	1463 GSF	8	1:150
13	CIRC			
13A	OPEN OFFICE			
13B	INTERVIEW			
13C	VIDEO			
13D	INTERVIEW			
	SUB TOT:	8		
	TOTAL OCC. AREA N.I.C.		211	
	TOTAL OCCUPANTS:	326		



EXITING NOTES

- EXIT DOORS IN THE MEANS OF EGRESS SHALL COMPLY WITH 2022 CBC SECTIONS 1010.1.1 THROUGH 1010.3.4, AND EXTERIOR EXIT DOORS ALSO WITH SEC. 1022.2. GATES IN THE MEANS OF EGRESS SHALL COMPLY WITH 1010.4, 1010.4.1.
- THE SIZE OF THE DOOR SHALL BE SUFFICIENT TO MEET THE OCCUPANT LOAD AS CALCULATED, AND NOT BE LESS THAN 32" MIN. CLR. AND 80" MIN HIGH DOOR CLOSER MAY REDUCE TO 78" A.F.F. PER 2022 CBC 1010.1.1.
- EXIT DOORS SHALL BE OPENABLE FROM THE EGRESS SIDE WITHOUT SPECIAL KNOWLEDGE, EFFORT OR THE USE OF A SPECIAL KEY OR LATCH PER 2022 CBC SEC. 1010.1.9.
- EXIT DOORS SHALL SWING IN THE DIRECTION OF TRAVEL WHEN SERVING AN OCCUPANT LOAD OF 50 OR MORE OR AN "H" OCCUPANCY PER 2022 CBC SEC. 1010.1.2.1.
- THE OPERATIONAL FORCE OF UNLATCHING DOORS SHALL NOT EXCEED 15 POUNDS "LBS." AND OPENING FORCE FOR PUSH AND PULL SHALL BE 5 LBS FOR DOORS THAT ARE NOT REQUIRED TO BE FIRE RATED, AND 15 LBS FOR FIRE RATED DOORS WITH AN IMPULS MAX OF 30 LBS PER 2022 CBC SEC. 1010.1.3.
- DOOR HARDWARE SHALL COMPLY WITH CBC CHT. 11B AND SHALL BE MOUNTED BETWEEN 34" MIN AND 48 MAX. A.F.F. SECURITY LOCKS NOT USED FOR NORMAL OPERATION MAY BE AT ANY LOCATION.
- PANIC AND FIRE EXIT HARDWARE SHALL BE PROVIDED FOR SWINGING DOORS SERVING H OCCUPANCY OR ROOMS OR SPACES WITH AN OCCUPANT LOAD OF 50 OR MORE IN GROUP A OR E OR OCCUPANCY NOT CLASSIFIED AS AND ASSEMBLY OCCUPANCY PER 2022 CBC PER 1010.2.9.
- ILLUMINATION: MEANS OF EGRESS SHALL BE ILLUMINATED AT ANY TIME THE BUILDING IS OCCUPIED WITH LIGHT HAVING AN INTENSITY OF NOT LESS THAN ONE FOOT CANDLE "FC" AT WALKING SURFACE LEVEL PER 2022 CBC SEC. 1008.2.1.
- EXIT ACCESS STAIRWAY, EXIT ACCESS STAIRS AND REQUIRED LANDINGS REQUIRE 10 FC AT THE WALKING SURFACE WHEN IN USE PER 2022 CBC SEC. 1008.2.1.
- EXIT ILLUMINATION FIXTURES SHALL BE ON A SEPARATE NIGHT LIGHT CIRCUIT WITH BATTERY BACK-UP PER 2022 CBC SEC. 1008.3. EXIT ILLUMINATION SHALL BE PROVIDED FOR NOT LESS THAN 90 MINUTES VIA STORAGE BATTERIES, OR ON-SITE GENERATOR PER 2022 CBC SEC. 1008.3.4.

- EMERGENCY POWER FOR ILLUMINATION SHALL BE SUPPLIED IN ROOMS AND SPACES THAT REQUIRE TWO OR MORE EXITS OR ACCESS TO EXITS AND ILLUMINATE AISLES, CORRIDORS, EXIT ACCESS STAIRWAYS AND RAMPS PER CBC 1008.3.1.
- CORRIDORS SHALL BE MAINTAINED WITH A MINIMUM CLEAR WIDTH OF 44" PER 2022 CBC SEC. 1020.2 (SEE EXCEPTIONS) AND 7'-6" MINIMUM HEIGHT PER 2022 CBC SEC. 1003.2.
- EXIT DOORS SHALL BE A MINIMUM OF 32" CLEAR WIDTH & MAXIMUM 48" WIDE LEAF. MINIMUM 6'-8" DOOR HEIGHT PER 2022 CBC SEC. 1010.1.1.
- DOORS IN ANY POSITION SHALL NOT REDUCE THE REQUIRED CORRIDOR EXIT WIDTH BY MORE THAN HALF PER 2022 CBC SEC. 1005.7.
- MAIN EXIT DOORS ARE PERMITTED TO BE EQUIPPED WITH KEY-OPERATED LOCKING DEVICES FROM THE EGRESS SIDE PROVIDED SIGN WITH LETTERS ON A CONTRASTING BACKGROUND STATING: THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS OCCUPIED PER 2022 CBC SEC. 1010.1.8.4.
- EXIT ACCESS HAS BEEN BASED UPON PROGRAMMATIC INFORMATION PROVIDED TO ARTFUL ENVIRONMENT LLC BY THE INTENDED OCCUPANT OF THE PROPOSED AREA OF WORK. ARTFUL ENVIRONMENT LLC SHALL NOT BE HELD RESPONSIBLE FOR ANY CONSEQUENCES WHICH MAY RESULT FROM THE CHANGE OF USE OR OCCUPANT LOAD AFTER PROJECT COMPLETION, OR CHANGES TO OTHER AREAS NOT IN SCOPE.
- TACTILE EXIT SIGNAGE SHALL BE REQUIRED PER 2022 CBC SEC. 1013.4. TACTILE SIGNS SHALL BE MATTE FINISH, WITH CHARACTERS THAT CONTRAST WITH THE BACKGROUND. MATCH EXISTING BUILDING STANDARD AND PROVIDE SIGNS AT THE FOLLOWING LOCATIONS:
 - EACH GRADE-LEVEL EXTERIOR EXIT DOOR SHALL BE IDENTIFIED BY A TACTILE SIGN WITH THE WORD "EXIT".
 - EACH EXIT DOOR THAT LEADS DIRECTLY TO A GRADE-LEVEL EXTERIOR EXIT BY MEANS OF AN EXIT ENCLOSURE OR AN EXIT PASSAGEWAY SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS, "EXIT ROUTE".
 - EACH EXIT ACCESS DOOR FROM AN INTERIOR ROOM, OR AREA TO A CORRIDOR OR HALLWAY THAT IS REQUIRED TO HAVE A VISUAL EXIT SIGN, SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS, "EXIT ROUTE".

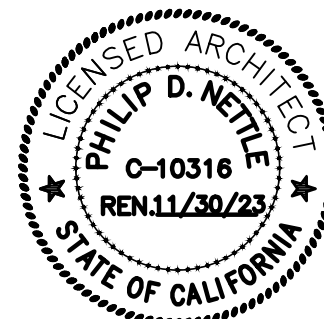
- TACTILE SIGNAGE SHALL BE LOCATED AT LATCH SIDE OF SINGLE DOOR AND RIGHT SIDE OF DOUBLE DOORS FROM DIRECTION OF EGRESS, OUTSIDE OF THE ARC OF ANY DOOR SWING, WITH AN 18" X 18" CLEAR FLOOR SPACE PER CBC 11B-403.4.2. SEE DETAIL SHEET "X".
- EXIT SIGNS SHALL BE INTERNALLY ILLUMINATED AT ALL TIMES WITH EMERGENCY ELECTRICAL BACK-UP POWER PER 2022 CBC SEC. 1013.6.3.
- EXIT SIGN ILLUMINATION SHALL NOT BE LESS THAN 5 FOOT CANDLES PER 2022 CBC SEC. 1013.6.2. EXIT SIGNS SHALL HAVE TWO POWER SOURCES, ONE FROM THE PREMISES WIRING SYSTEM, THE OTHER FROM BATTERIES PER 2022 CBC SEC. 1013.6.3.
- FINAL PLACEMENT OF EXIT SIGNS IS SUBJECT TO APPROVAL AND MODIFICATION OF THE FIRE DEPARTMENT FIELD INSPECTOR.
- SEE DETAIL 19/ A402 FOR TACTILE SIGNAGE DETAILS.
- ALARMS/EMERGENCY WARNING SYSTEMS/TWO-WAY COMMUNICATION SYSTEMS REQUIRED BY CHAPTER 10 SHALL ACTIVATE A MEANS OF WARNING FOR THE HEARING IMPAIRED. EMERGENCY WARNING SYSTEMS PROVIDED AS PART OF THE FIRE ALARM SYSTEM SHALL BE DESIGNED AND INSTALLED ACCORDING TO NFPA 72 AS AMENDED IN CHP. 35, PER CBC 1009.12.

EXITS/MEANS OF EGRESS CALCULATIONS

- MINIMUM EGRESS WIDTH: (02 IN/OCC.) X 326 OCC. = 65.2"
- EGRESS WIDTH PROVIDED = 273" (TOTAL CLEAR WIDTH OF 5 EXITS)
- OCCUPANCY 325-500 : (2) EXITS REQUIRED (5) PROVIDED
- REFER TO ACCESSIBILITY PLAN FOR LOCATION OF TACTILE EXIT SIGNAGE.
- GREATEST COMMON PATH OF TRAVEL SHOWN IN SPACES WHERE MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE IS GREATER THAN 75' FOR AREAS WITH ONE EXIT ACCESS DOORWAY.



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PHILLIP D. NETTLE, ARCHITECT
LIC: C-10316 EXP 11/30/2023
528 Shorebird Circle #16105
Redwood City, CA 94065

Phillip D. Nettle

MORGAN HILL POLICE
DEPARTMENT EXPANSION

16200 VINEYARD BLVD.
MORGAN HILL, CA 95037

10/06/2023 SUBMIT FOR PLAN CHECK

DRAWING TITLE:

OCCUPANCY & EXITING
PLAN

DRAWING NO.:

A0.3

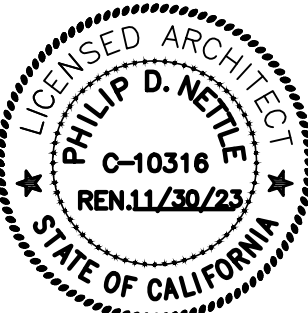
SCALE:

AS NOTED



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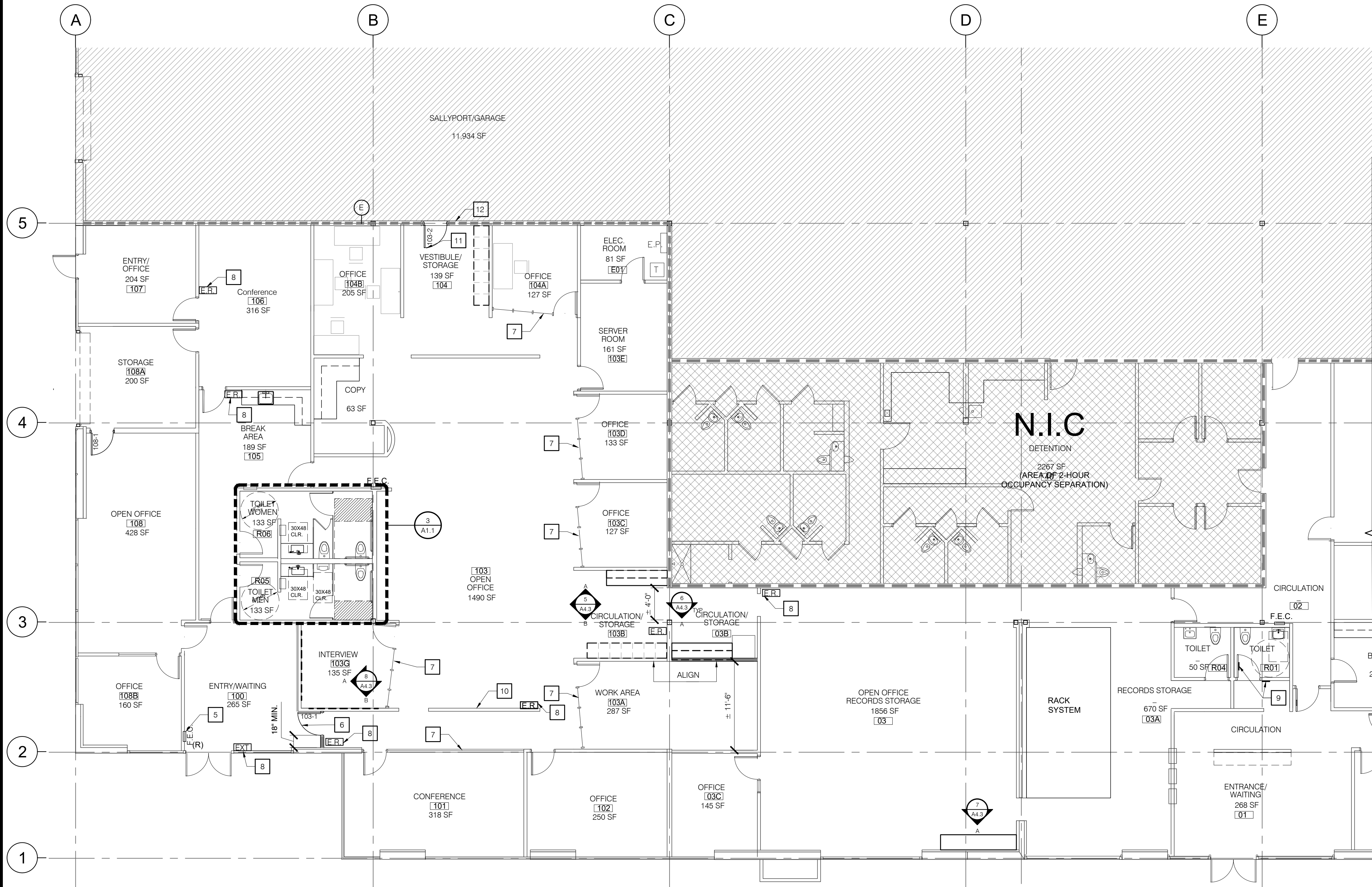
DRAWING TITLE:

DEMO & NEW
FLOOR PLANS

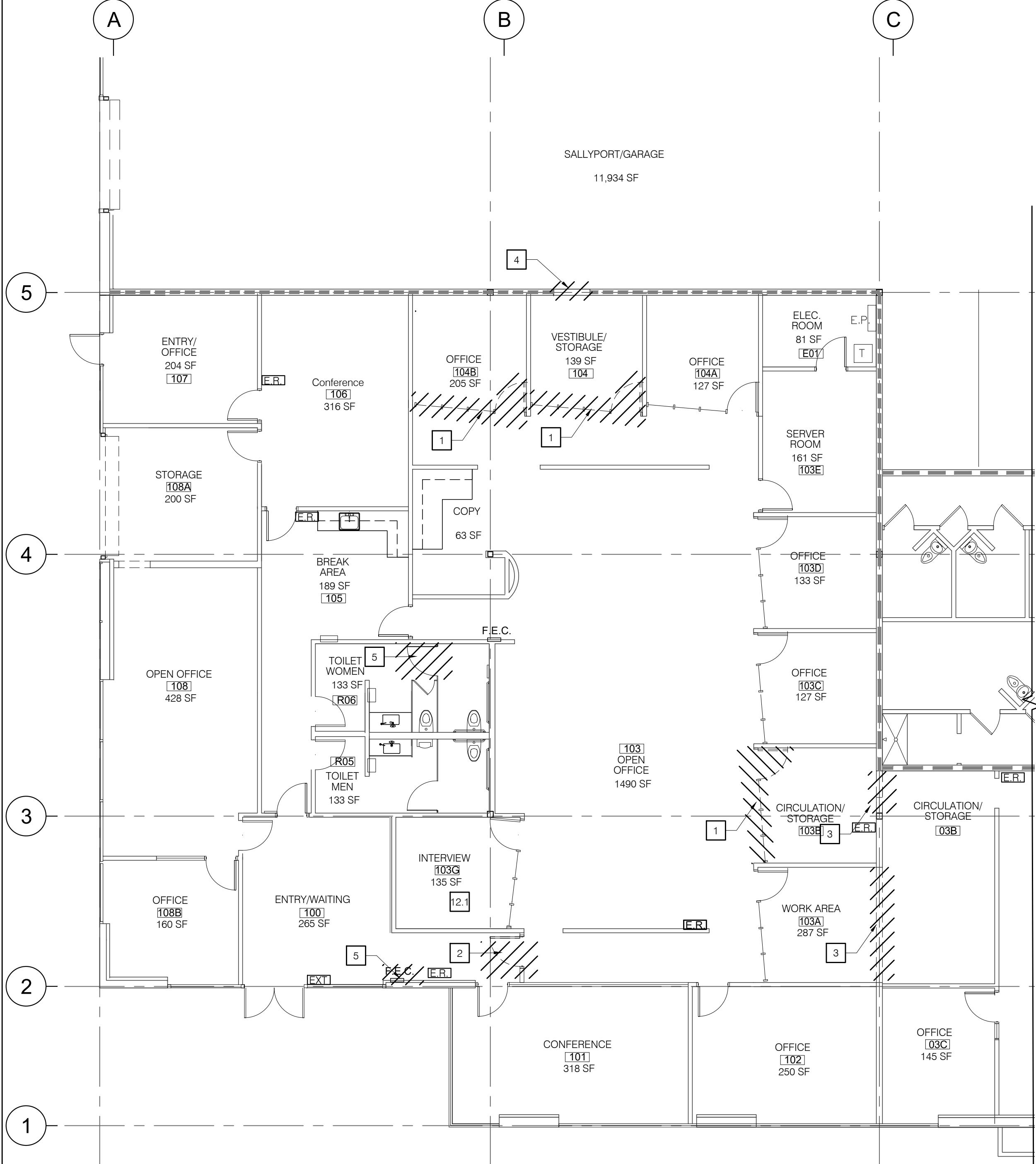
DRAWING NO.:

A1.0

SCALE: AS NOTED



2 FLOOR PLAN
SCALE: 1/8" = 1'-0"



1 DEMO PLAN
SCALE: 1/8" = 1'-0"

GENERAL CONSTRUCTION NOTES

- PRIOR TO APPLICATION OF PAINT, ALL SURFACES SHALL BE PROPERLY PREPARED AND TAPED.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS SHOWN ON DRAWINGS. THE CONTRACTOR SHALL NOTIFY ARTFUL ENVIRONMENT, LLC OF ANY DISCREPANCIES, ERRORS OR CONFLICTS WHICH SHALL BE REVIEWED WITH ARTFUL ENVIRONMENT, LLC AND RESOLVED PRIOR TO START OF CONSTRUCTION. IF THERE ARE ANY QUESTIONS REGARDING THE DRAWINGS, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING CLARIFICATION FROM ARTFUL ENVIRONMENT, LLC BEFORE PROCEEDING WITH WORK. IN THE EVENT OF FAILURE TO DO ANY OF THE ABOVE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTION OF ERRORS. ONLY ARTFUL ENVIRONMENT, LLC SHALL INTERPRET THE DRAWINGS AND SPECIFICATIONS.
- "ALIGN" SHALL MEAN TO ACCURATELY LOCATE FINISHED FACES IN THE SAME PLANE.
- "SIMILAR" MEANS COMPARABLE CHARACTERISTICS FOR THE CONDITION NOTED. VERIFY DIMENSIONS AND ORIENTATION ON PLANS AND ELEVATIONS.
- ADJUST PARTITION THICKNESS AND CAVITY FOR INCLUSION OF INTERNAL ELEMENTS, SUCH AS PLUMBING, AND FOR CORRECT INSTALLATION OF FIXTURES, PANELS, BOXES, ETC.
- FINISH GYPSUM DRYWALL COMPLETELY TO WITHIN 1/4" OF FLOOR TO ENSURE A SOLID WALL BASE INSTALLATION.
- FIRE EXTINGUISHERS SHALL BE PROVIDED AND LOCATED IN ACCORDANCE WITH FIRE DEPARTMENT REQUIREMENTS. SEE "F.E." OR "F.E.C." ON PLANS. EXTINGUISHER CABINET DOOR OPENING HARDWARE SHALL BE 48" MAX. A.F.F.
- U.L. APPROVED DETAILS OF RATED ASSEMBLY PENETRATIONS ARE TO BE PROVIDED BY INDIVIDUAL SUBTRADES AS REQUIRED BY 2022 CBC SEC. 714.
- AT ALTERED CONSTRUCTION INCLUDING AREAS OF SCHEDULED DEMOLITION, REPAIR CUT EDGES, REPLACE CONSTRUCTION, & FIT NEW TO EXISTING CONSTRUCTION AS REQUIRED TO MATCH / BLEND / ALIGN WITH ADJACENT EXISTING CONSTRUCTION. JOINTS OF NEW & EXISTING PATCHES SHALL BE SMOOTH AND EVEN. WHERE NEW PAINT OR OTHER FINISHES ARE JOINED, CONTINUE TO NEAREST BREAK IN SURFACE, CORNER, OR SIMILAR BREAK IN CONSTRUCTION AS REQUIRED FOR NEAT, FINISHED APPEARANCE.
- WHERE CONCRETE FLOORS REQUIRE LEVELING, PROVIDE SELF LEVELING CEMENTITIOUS FILLER FLOATED TO A FEATHER EDGE. MIX AND APPLY IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- ALL REQUESTS FOR SUBSTITUTIONS OF SPECIFIED ITEMS SHALL BE SUBMITTED TO ARTFUL ENVIRONMENT, LLC IN WRITING AND SHALL BE APPROVED BY ARTFUL ENVIRONMENT, LLC PRIOR TO INCORPORATION INTO WORK. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO INVESTIGATE THE PRODUCT PROPOSED FOR SUBSTITUTION, TO DETERMINE IF IT IS EQUAL IN ALL RESPECTS TO THAT SPECIFIED AND TO PROVIDE COST AND SCHEDULE CHANGES FOR THE PROPOSED SUBSTITUTION. ARTFUL ENVIRONMENT, LLC SHALL DETERMINE THE ACCEPTABILITY AND RESERVE THE RIGHT TO REJECT PROPOSALS.
- ASLES AT OPEN OFFICE/MODULAR FURNITURE AREAS SHALL HAVE A CLEAR WIDTH OF 44" MINIMUM.

SHEET NOTES

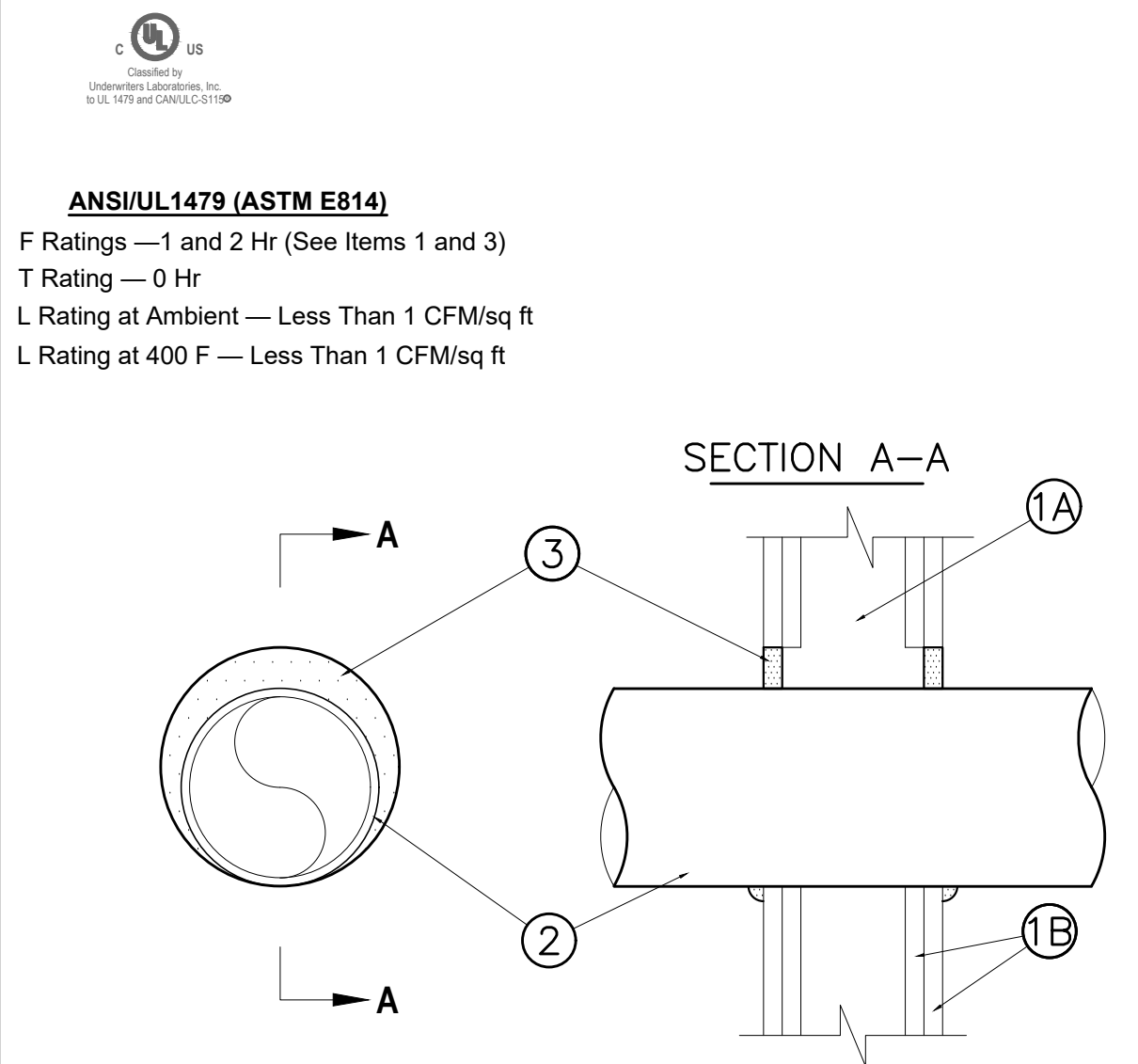
- ALL NEW WALLS AND WALL REPAIRS SHALL MATCH EXISTING ADJACENT WALL FINISH.
- PROVIDE SKIP TROWEL FINISH, KNOCK-DOWN BROCADE FINISH, ETC. AT ALL NEW WALLS TO MATCH EXISTING ADJACENT WALL FINISH.
- VERIFY EXISTING PLUMBING FIXTURES MEET CALIFORNIA WATER CONSERVATION REQUIREMENTS OR PROVIDE NEW.
- PROVIDE (N) FIRE EXTINGUISHER SIGNAGE WITH NEW PER DETAIL 12/A1.1 OR MATCH EXISTING BLDG. STANDARD.
- PROVIDE EXIT DEVICES FROM THE AREA OF THE OCCUPANCY WHEN PASSING THROUGH INTERVENING SPACES ON THE PATH OF TRAVEL TO THE EXIT.
- PROVIDE NEW TACTILE EXIT SIGNAGE PER DETAIL 4/A1.1. REFER TO SHEET A.02 FOR GENERAL LOCATION AND IN ACCORDANCE WITH 11B-707.4 FOR HEIGHT AND LOCATED ALONG THE LATCH SIDE OR ALONG THE RIGHT SIDE WITH A CLEAR FLOOR SPACE OF 18" X 18" MIN CENTERED ON THE TACTILE SIGNAGE PER 11B-707.4.2

KEY NOTES

- REMOVE GLAZING SYSTEM AT OFFICE; HEADER TO REMAIN.
- REMOVE DOOR AND FRAME. RETAIN FOR REUSE. PATCH EXISTING CEILING GRID.
- CREATE NEW OPENINGS IN FULL HEIGHT WALL BETWEEN SUITE 100 AND EXISTING STORAGE SPACE. DEMO WALL BACK TO NEAREST WALL OR (E) STEEL COLUMN, AND ALLOW FOR NEW HEADER TO BE FLUSH FLUSH WITH (E) CEILING GRID. SEE DETAILS 9 & 10/A3.0
- DEMO/SAW-CUT AREA OF HOLLOW CMU, PREVIOUSLY PREPARED FOR FOR NEW OPENING BETWEEN SALLY PORT AND VESTIBULE 104, AND PREPARE FOR NEW HOLLOW METAL DOOR FRAME. SOLID GROUT ANY EXPOSED CUT CELLS AT JAMB BLOCKS TO CREATE SMOOTH SURFACE.
- REMOVE FEC AND RELOCATE AWAY FROM AREA REQUIRED CLEAR FLOOR SPACE AT DOOR.
- CONFIRM LOCATION OF RELOCATED DOOR WILL MEET MINIMUM CLEAR 18" CLEAR ON LATCH SIDE OF RELOCATED DOOR.
- PROVIDE BUILDING STANDARD WINDOW FILM AT GLAZING AT (E) GLAZING. SEE ELEVATION A/A7.0.
- PROVIDE NEW TACTILE EXIT "EXIT" OR EXIT ROUTE "E.R." SIGNAGE AT LOCATIONS SHOWN OR AS DIRECTED BY FIRE MARSHAL. MATCH BLDG. STANDARD. (EXISTING NOT SHOWN)
- PROVIDE NEW "ALL GENDER" SIGNAGE FOR PUBLIC ACCESSIBLE TOILET ROOM
- PREPARE AREA FOR NEW FLAT SCREEN MONITOR (N.I.C.):
 - PROVIDE RECESSED BOX FOR POWER AND DATA AT +60" A.F.F.
 - PROVIDE RING AND FULL STRING TO TOP OF WALL.
 - CONFIRM MONITOR WEIGHT W/ <100 LBS. OR PROVIDE BACKING PER DETAIL.
- INSTALL NEW 1-HR RATED H.M. FRAME AND FLUSH DESIGN DOOR AT NEW OPENING.
- EXISTING 1 HR RATED OCCUPANCY SEPARATION WALL.

LEGEND

- REFER TO 5/A3.0 FOR PARTITION TYPES, 11/A3.0 FOR STUD SCHEDULE, & 2/A3.0 FOR WALL TYPE CONSTRUCTION. UNFACED FIBERGLASS SOUND ATTENUATION BATT INSULATION: 3-1/2" @ 5/8" STUDS, 5-1/2" @ 6" STUDS.
- EXISTING CONSTRUCTION TO REMAIN (WALLS 25 GA 24" O.C. W/O INSUL., TYP. PER RECORD DOCUMENTS)
- TYPE A:
NEW BLDG. STD. INTERIOR PARTITION TO THE UNDERSIDE OF CEILING.
3-5/8" METAL STUDS W/ 5/8" GYP. BD. EA. SIDE AND ACOUSTICAL INSULATION. WALLS WITHOUT SYMBOLS ARE TYPE "A", TYP.
- EXISTING FULL HEIGHT, 2-HOUR FIRE-RATED/OCCUPANCY SEPARATION, METAL STUD PARTITION. (AREA N.I.C.)
- EXISTING 40" HIGH CMU PARTITION WITH 6" METAL STUD (1-HR RATED) INFILL ABOVE TO DECK; NON-STRUCTURAL
- DOOR - SEE DETAILS 10/A501 & 17/A601 AND DOOR SCHEDULE SHEET A-601. DOORS WITHOUT NUMBERS ARE EXISTING TO REMAIN
- NEW ("R") RELOCATED SEMI-RECESSED FIRE EXTINGUISHER CABINET, 2A-10B-C WITH REQUIRED WALL SIGNAGE ABOVE PER 12/A1.1 OR MATCH BLDG. STANDARD.
EXISTING FIRE EXTINGUISHER CABINET
- HOLDING CELL AREA WITH 2-HOUR FIRE-RATED AREA/OCCUPANCY SEPARATION (N.I.C.)
- DEMO/REMOVE
- TACTILE EXIT SIGN: SEE DTL. 4/A4.2
- TACTILE EXIT ROUTE SIGN: SEE DTL. 4/A4.2



1. WALL ASSEMBLY — THE 1 OR 2 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

- STUDS — WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC. STEEL STUDS TO BE MIN 2-1/2 IN. (64 MM) WIDE AND SPACED MAX 24 IN. (610 MM) OC. WHEN STEEL STUDS ARE USED AND THE Ø OF OPENING EXCEEDS THE WIDTH OF STUD CAVITY, THE OPENING SHALL BE FRAMED ON ALL SIDES USING LENGTHS OF STEEL STUD INSTALLED BETWEEN THE VERTICAL STUDS AND SCREW-ATTACHED TO THE STEEL STUDS AT EACH END. THE FRAMED OPENING IN THE WALL SHALL BE 4 TO 6 IN. (102 TO 152 MM) WIDE AND 4 TO 6 IN. (102 TO 152 MM) HIGHER THAN THE Ø OF THE PENETRATING ITEM SUCH THAT, WHEN THE PENETRATING ITEM IS INSTALLED IN THE OPENING, A 2 TO 3 IN. (51 TO 76 MM) CLEARANCE IS PRESENT BETWEEN THE PENETRATING ITEM AND THE FRAMING ON ALL FOUR SIDES.
 - GYPSUM BOARD* — 5/8 IN. (16 MM) THICK, 4 FT (122 CM) WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM BOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX Ø OF OPENING IS 32-1/4 IN. (819 MM) FOR STEEL STUD WALLS. MAX Ø OF OPENING IS 14-1/2 IN. (368 MM) FOR WOOD STUD WALLS.
2. THE F AND FH RATINGS OF THE FIRESTOP SYSTEM ARE EQUAL TO THE FIRE RATING OF THE WALL ASSEMBLY. 2. THROUGH-PENETRANTS — ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BE MIN 0 IN. TO MAX 2-1/4 IN. (57 MM). PIPE MAY BE INSTALLED WITH CONTINUOUS POINT CONTACT. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
- STEEL PIPE — NOM 30 IN. (762 MM) Ø (OR SMALLER), SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
 - IRON PIPE — NOM 30 IN. (762 MM) Ø (OR SMALLER) CAST OR DUCTILE IRON PIPE.
 - CONDUIT — NOM 4 IN. (102 MM) Ø (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR 6 IN. (152 MM) Ø STEEL CONDUIT.
 - COPPER TUBING — NOM 6 IN. (152 MM) Ø (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
 - COPPER PIPE — NOM 6 IN. (152 MM) Ø (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
3. FILL, VOID OR CAVITY MATERIAL* — SEALANT — MIN 5/8 IN. (16 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL, AT THE POINT OR CONTINUOUS CONTACT LOCATIONS BETWEEN PIPE AND WALL. A MIN 1/2 IN. (13 MM) Ø BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE PIPE/WALL INTERFACE ON BOTH SURFACES OF WALL. HILTIF S ONE SEALANT OR FS ONE MAX INTUMESCENT SEALANT OR EO.*
- *INDICATES SUCH PRODUCTS SHALL BEAR THE UL OR CUL CERTIFICATION MARK FOR JURISDICTIONS EMPLOYING THE UL OR CUL CERTIFICATION (SUCH AS CANADA), RESPECTIVELY.

18 1-2 HR FIRESTOP SYS. UL/ANSI W-L-1054

3" = 1'-0"

13 PARTIALLY RECESSED FIRE EXT. CABINET

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

- FAUCET CONTROLS AND OPERATING MECHANISMS AT COMMON USE SINK AREAS SHALL HAVE CONTROLS THAT ARE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE GRASPING, PINCHING, OR TWISTING OF THE WRIST; REQUIRE MORE THAN 5 LBS OF FORCE TO ACTIVATE, AND BE LEVER OPERATED, PUSH TYPE OR ELECTRONICALLY CONTROLLED. PER 2022 CBC SEC. 11B-309.
- IDENTIFICATION SIGNS TO COMPLY WITH REQUIREMENTS OF 2022 CBC SEC. 11B-703. DIRECTIONAL AND INFORMATION SIGNS TO COMPLY WITH 2022 CBC SEC. 11B-703.
- DOOR OPERATIONS: EXCEPT AS SPECIFICALLY PERMITTED BY THIS SECTION EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT PER 2022 CBC SEC. 1010.1.9.
- ALL REQUIRED EXIT DOORS SHALL HAVE A MINIMUM 32" CLEAR OPENING AT 90 DEGREES PER 2022 CBC SEC. 1010.1.1.
- FOR ALL REQUIRED EXIT DOORS, WIDTH AND CLEAR AREA ON THE SWING SIDE OF THE DOOR SHALL EXTEND 24" PAST STRIKE EDGE FOR EXTERIOR DOORS PER 2022 CBC SEC. 11B.404.2.4, AND 18" PAST STRIKE EDGE FOR INTERIOR DOORS.
- DOOR HARDWARE: ALL HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 34 INCHES AND 44 INCHES ABOVE THE FLOOR PER 2022 CBC SEC. 11B.404.2.7. LATCHING AND LOCKING DEVICES THAT ARE HAND ACTIVATED AND WHICH ARE IN AN ACCESSIBLE PATH OF TRAVEL, SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, BY PANIC BARS, BY PUSH-PULL ACTIVATING BARS, OR BY OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE.
- MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 15 LBS. FOR FIRE DOORS, 5 LBS. FOR EXTERIOR DOORS AND 5 LBS. FOR INTERIOR DOORS, SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS PER 2022 CBC SEC. 1010.1.3.
- NEW AND EXISTING DOOR CLOSERS MUST BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES TO A POSITION 12 DEGREES FROM THE LATCH IS MINIMUM 5 SECOND PER 2022 CBC 11B-404.2.8.1.
- THRESHOLDS AT DOORWAYS SHALL NOT EXCEED 1/2" IN HEIGHT. RAISED THRESHOLDS AND FLOOR LEVEL CHANGES AT ACCESSIBLE DOORWAYS SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2 IF MORE THAN 1/4" PER 2022 CBC SEC. 11B-404.2.5 & 11B-303.
- GROUND AND FLOOR SURFACES ALONG ACCESSIBLE ROUTES AND IN ACCESSIBLE ROOMS AND SPACES, INCLUDING FLOORS, WALKS, RAMPS, STAIRS AND CURB RAMPS, SHALL BE STABLE, FIRM, SLIP RESISTANT AND SHALL COMPLY WITH THE REMAINDER OF 2022 CBC SEC. 11B-302.
- ASSISTIVE LISTENING SYSTEMS SHALL BE PROVIDED IN ASSEMBLY AREAS, INCLUDING CONFERENCE ROOMS AND MEETING ROOMS, PER CBC 11B-219 AND SHALL COMPLY WITH 11B-706.
- THE MINIMUM NUMBER OF RECEIVERS TO BE PROVIDED SHALL BE EQUAL TO 4 PERCENT OF THE TOTAL NUMBER OF SEATS, BUT IN NO CASE LESS THAN 2, PER CBC 11B-219.3.
- PORTABLE SYSTEMS MAY BE USED IF THERE ARE NOT FIXED SEATS AND THE OCCUPANT LOAD IS NOT GREATER THAN 50. PORTABLE SYSTEMS MAY SERVE MORE THAN ONE ROOM IF SUPPLEMENTARY WIRING AND OUTLETS ARE PROVIDED.
- IDENTIFY ASSISTIVE LISTENING SYSTEMS PER DETAIL 13/-.

14 ACCESSIBILITY COMPLIANCE NOTES

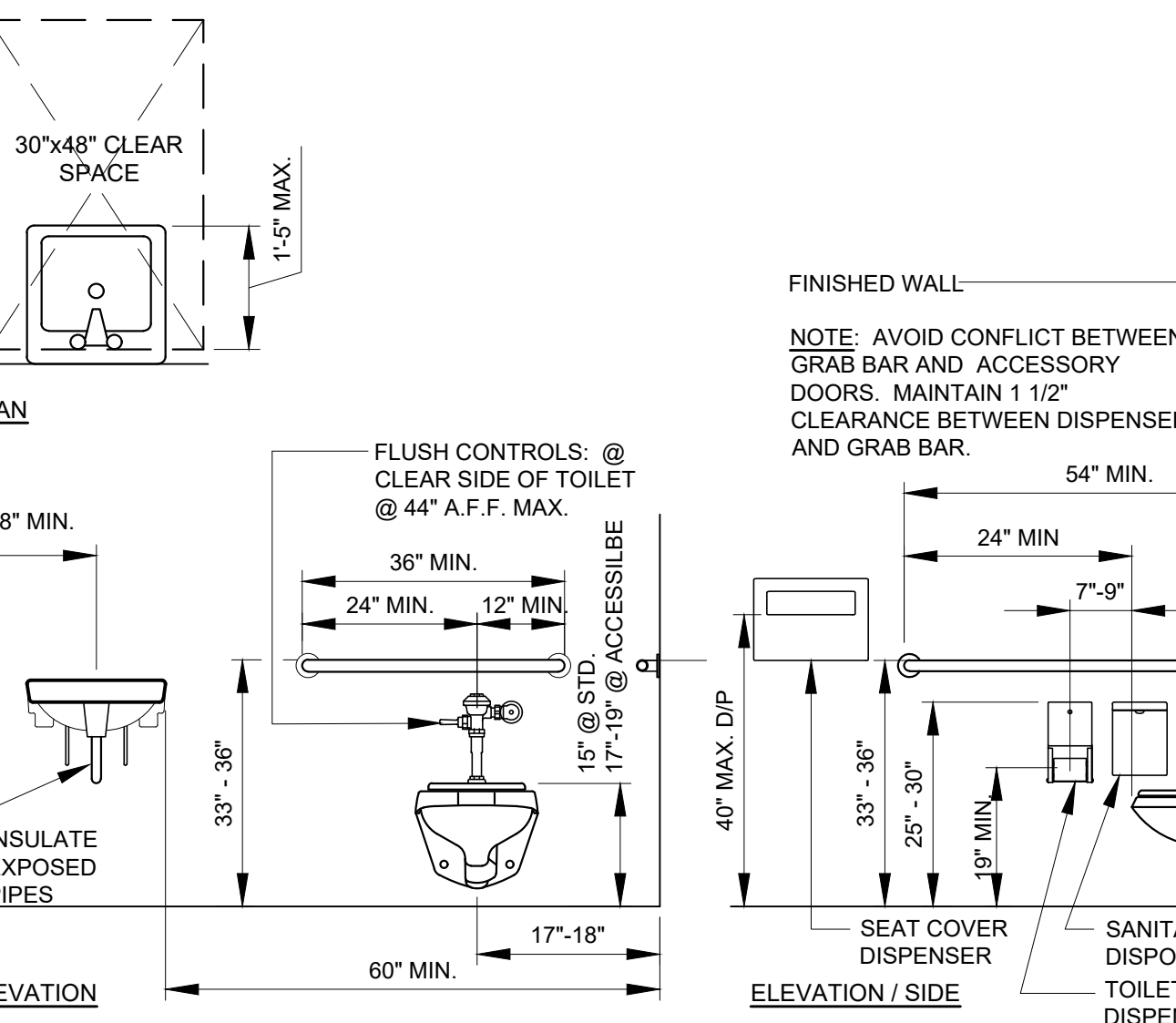
9 LAVATORY CLEARANCES (UNDERMOUNT)

1 1/2" = 1'-0"



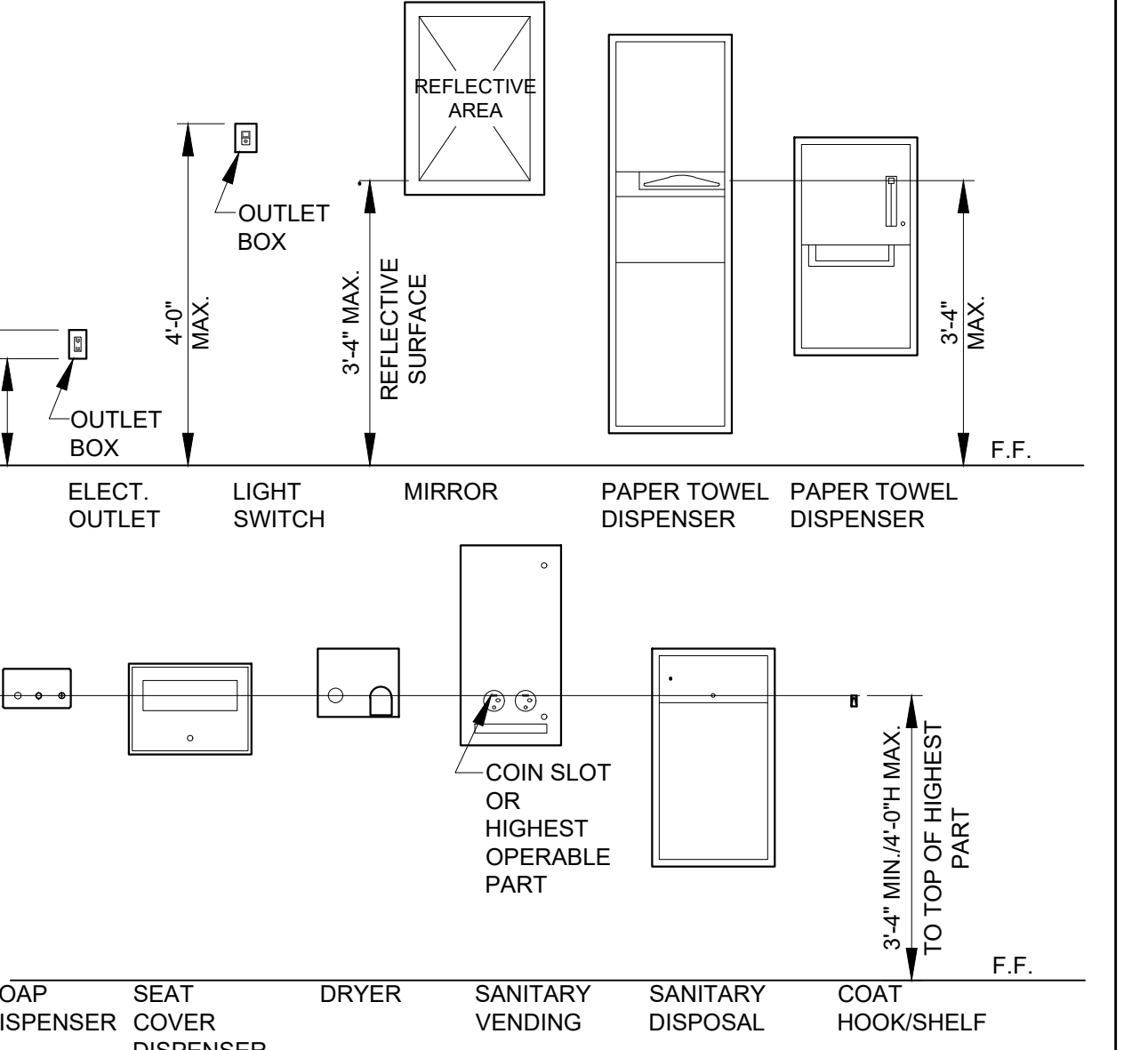
5 RESTROOM DOOR AND WALL SIGNAGE

N.T.S.



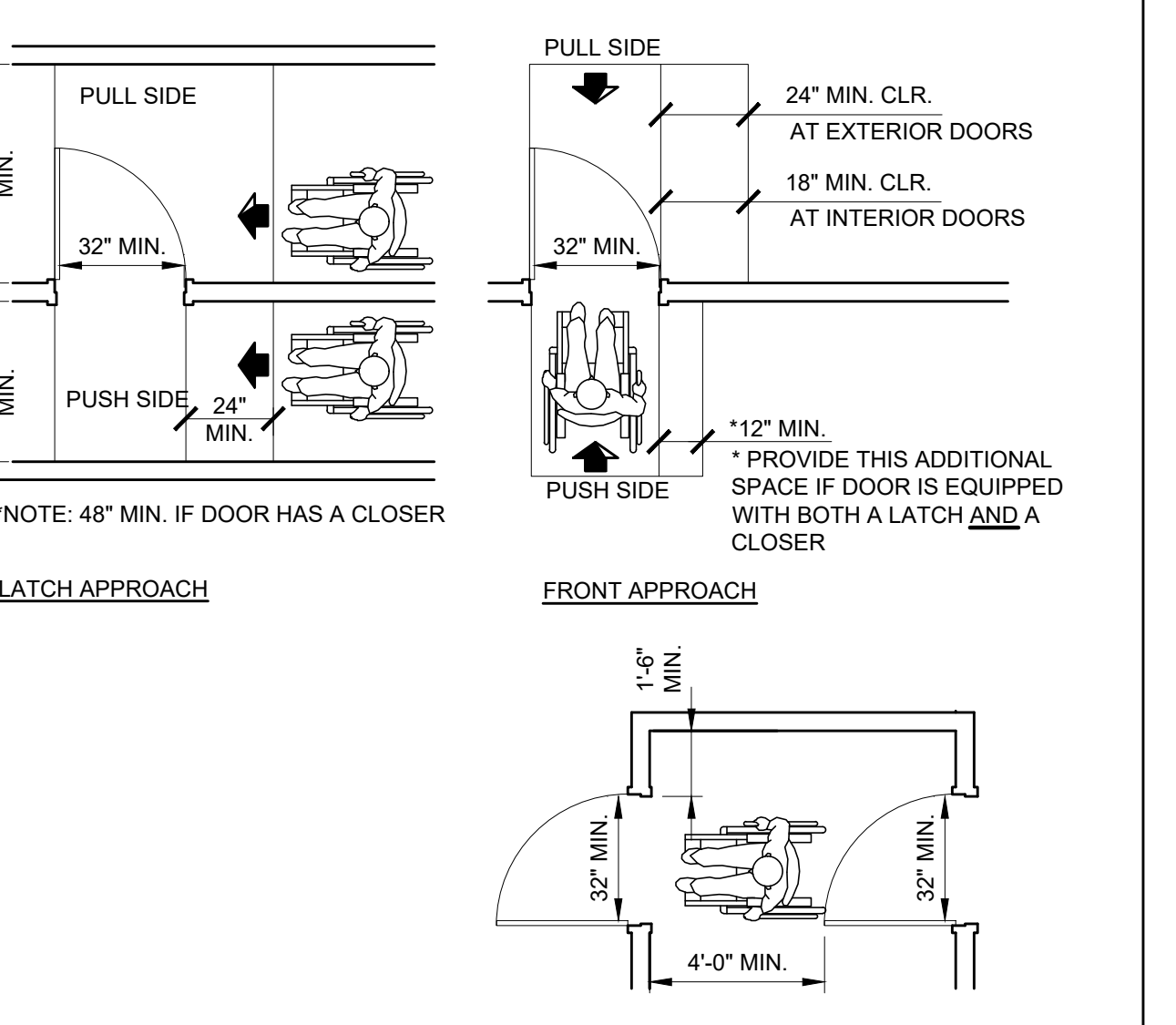
6 DIMENSIONAL REQUIREMENTS

1/2" = 1'-0"



7 ACCESSORY / CONTROLS MOUNTING HTS.

1/2" = 1'-0"

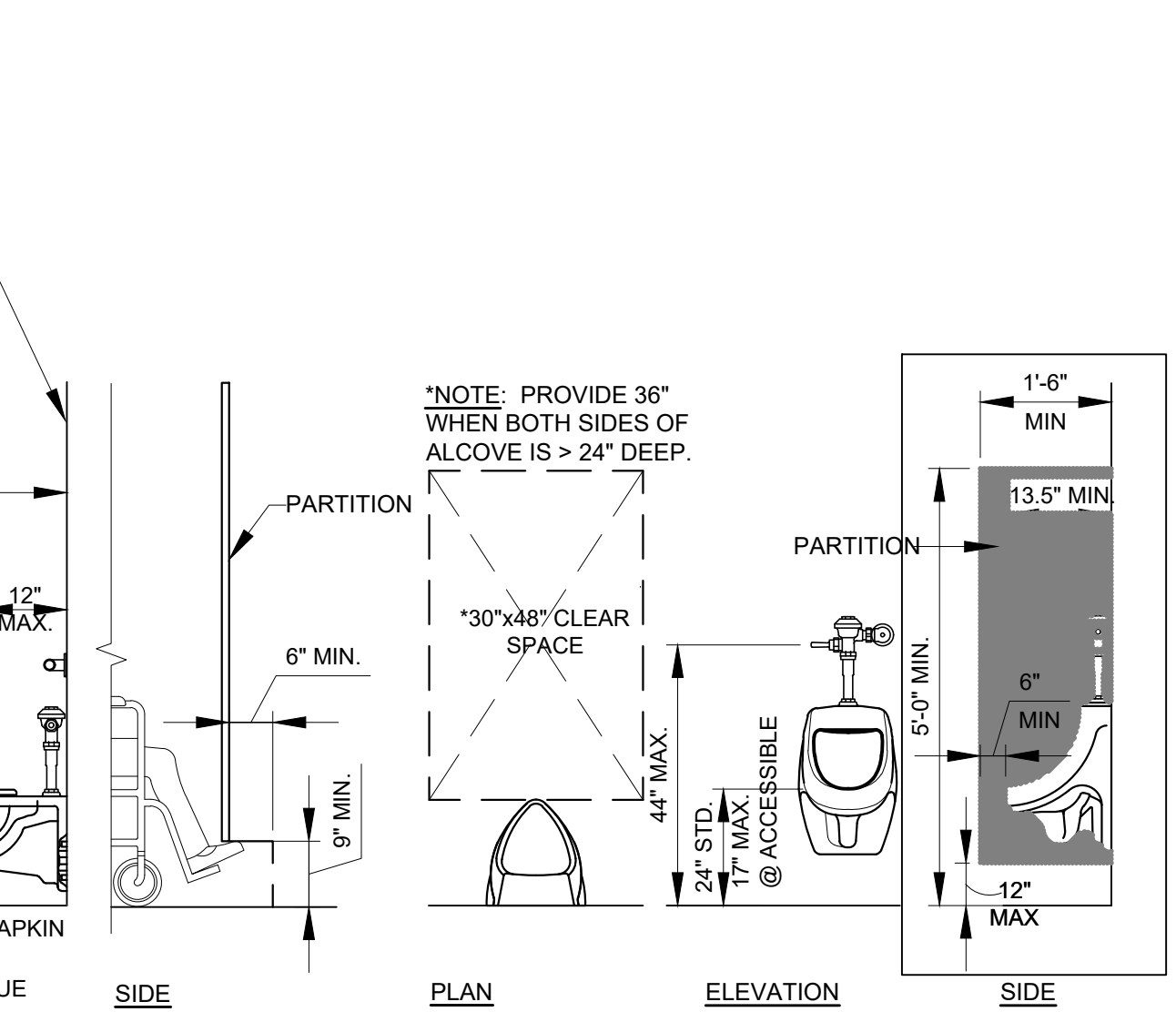


8 DOOR CLEARANCES

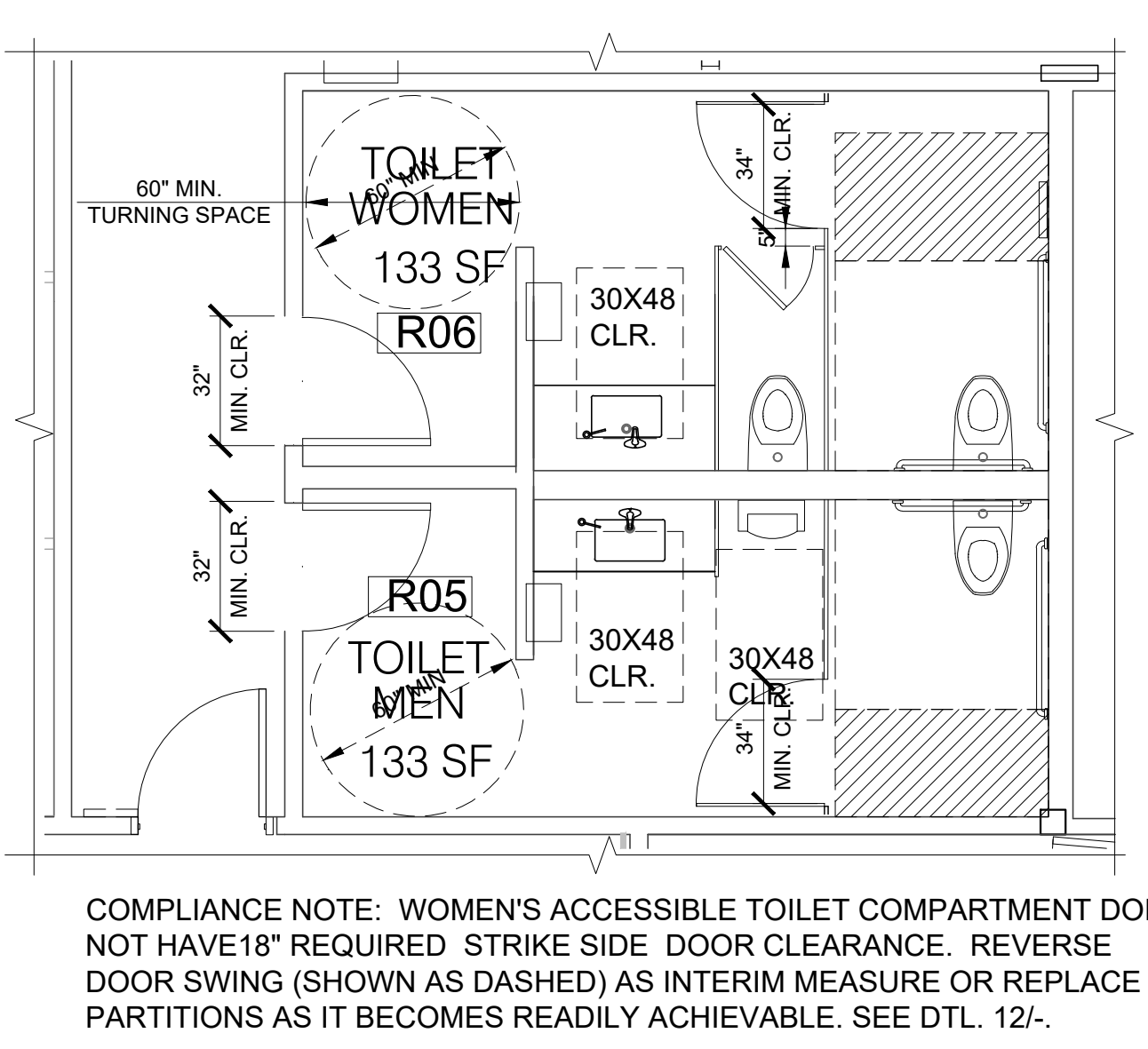
1/4" = 1'-0"

1/4" = 1'-0"

3 ENLARGED REST ROOM PLAN

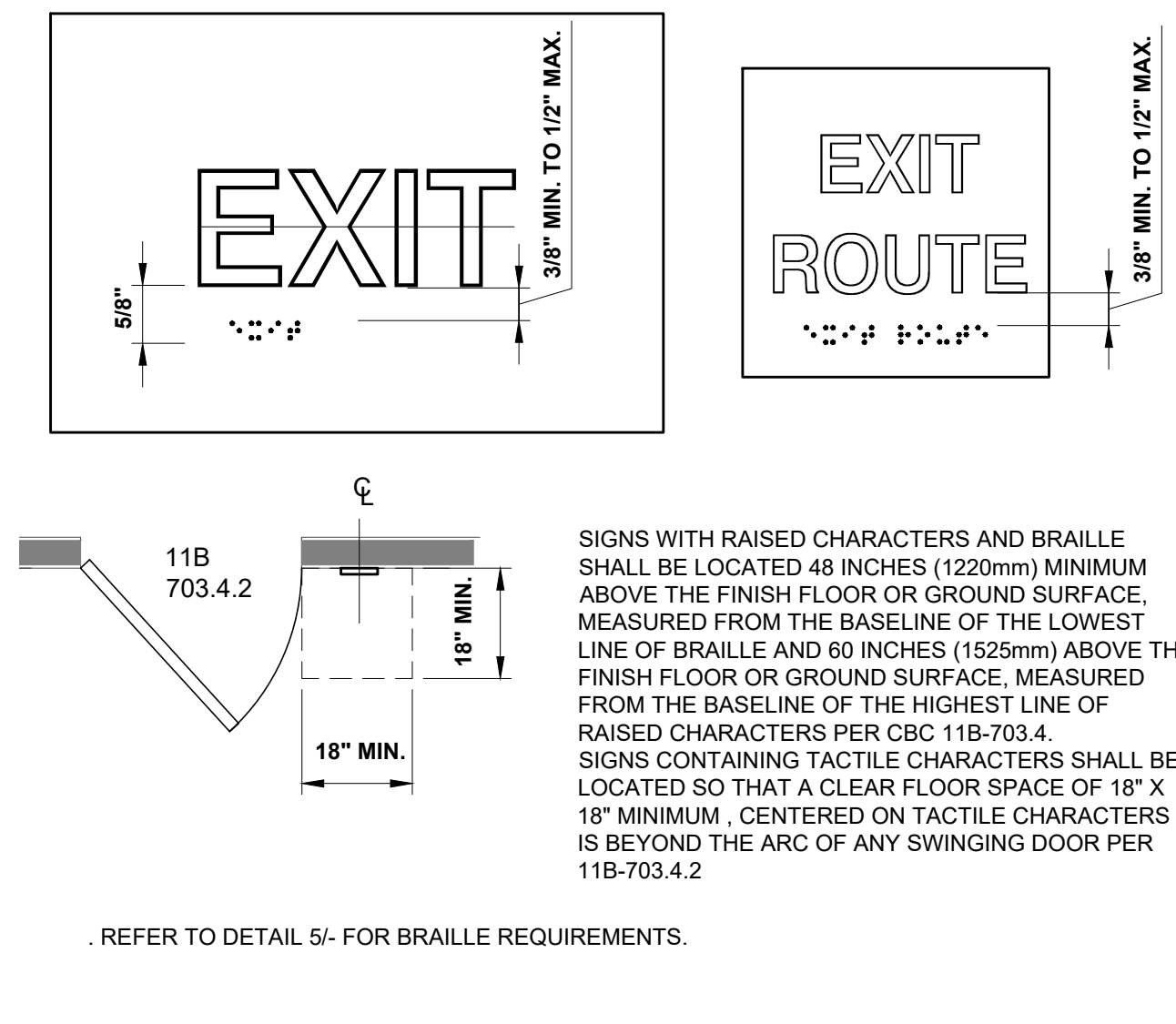


4 TACTILE EGRESS SIGNAGE & MOUNTING NOTES



5 RESTROOM DOOR AND WALL SIGNAGE

N.T.S.



6 DIMENSIONAL REQUIREMENTS

1/2" = 1'-0"

1/2" = 1'-0"

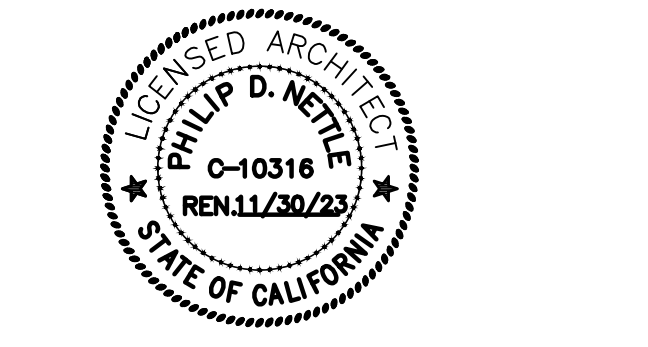
12 FIRE EXTINGUISHER SIGNAGE

N.T.S.

N.T.S.



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PhillipD.Nettle

MORGAN HILL POLICE DEPARTMENT EXPANSION

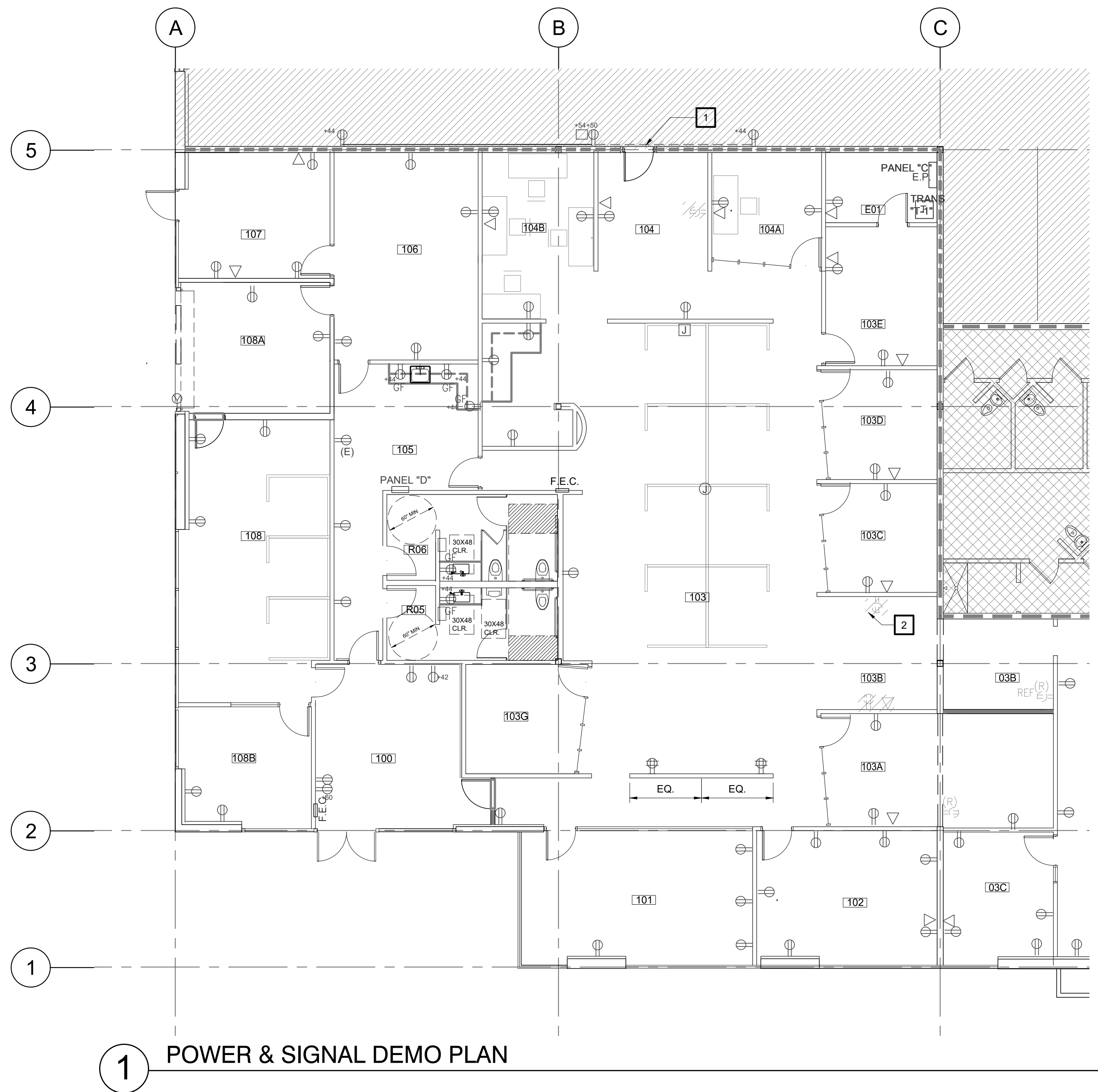
16200 VINEYARD BLVD.
MORGAN HILL, CA 95037

10/06/2023 SUBMIT FOR PLAN CHECK

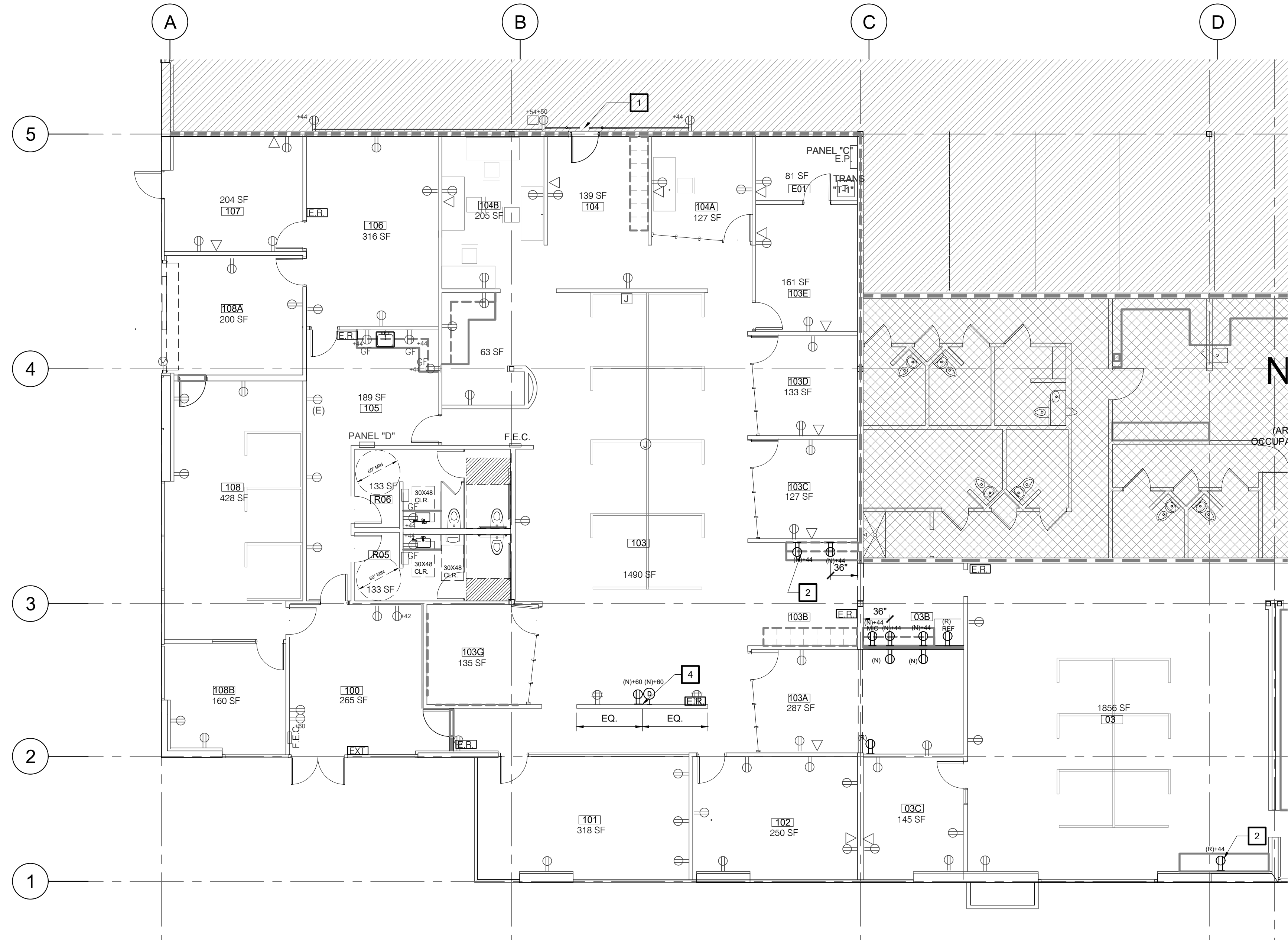
DRAWING TITLE:
ENLARGED RESTROOM & INTERIOR ACCESSIBILITY DETAILS

DRAWING NO.:
A1.1

SCALE: AS NOTED



1 POWER & SIGNAL DEMO PLAN



2 POWER & SIGNAL PLAN

LEGEND

- DUPLEX RECEPTACLE (GF = GROUND FAULT)
- FOUR-PLEX RECEPTACLE (GF = GROUND FAULT)
- DATA OUTLET WITH PULL STRING
- DEMO
- (N) NEW
- (R) RELOCATE/RELOCATED

KEY NOTES

- PERROUTE / EXTEND EXISTING EXPOSED CONDUIT AND CONDUCTORS TO THE AVOID NEW DOOR OPENING. NEW CONDUCTORS / WIRES SHALL MATCH THE EXISTING. NEW CONDUIT SHALL BE SIZED TO MEET CODE BUT SHALL BE NO SMALLER THAN THE EXISTING CONDUIT.
- RELOCATE (E) OUTLET TO ABOVE (N) CASEWORK.
- RELOCATE OUTLET FOR REFRIGERATOR IF NEEDED FOR NEW WALL CONSTRUCTION. REUSE EXISTING DEDICATED CIRCUIT. V.I.F.
- PROVIDE POWER AND RING AND STRING FOR DATA RECESSED IN WALL FOR FLAT SCREEN TV MONITOR. LOCATION TO BE CENTERED ON WALL + 60" A.F.F., CONFIRM LOCATION WITH TENANT PRIOR TO INSTALLATION.

SHEET NOTES

- ALL ELECTRICAL DEVICES (SWITCHES, OUTLETS, ETC.) SHALL BE THE SAME COLOR AS THE COVER PLATE U.O.N. COLOR SHALL BE WHITE. U.O.N.
- WHERE ELECTRICAL OUTLETS, TELEPHONE/DATA OUTLETS, ETC. ARE ADJACENT, GROUP TOGETHER AS CLOSELY AS POSSIBLE TOGETHER AT 6" O.C. AS SHOWN ON PLAN.
- FLAT SCREEN POWER AND DATA OUTLETS SHALL BE IN WALL RECESSED.
- WHERE OUTLETS OCCUR ABOVE COUNTERTOP, INSTALL 1" ABOVE COUNTER TOP OR BACK SPLASH MEASURED FROM BOTTOM EDGE OF OUTLET FACEPLATE TO TOP OF CABINETRY, U.O.N.

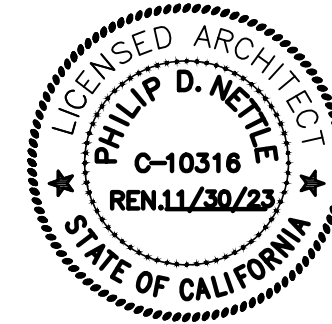
GENERAL POWER AND SIGNAL NOTES

- ELECTRICAL ITEMS ARE SHOWN ON PLAN FOR LOCATION ONLY ENGINEERING DRAWINGS SUPERCEDE DESIGN DRAWINGS.
- ELECTRICAL WORK SHALL BE DESIGNED AND BUILT IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE AND APPLICABLE CODES AND STANDARDS. ELECTRICAL DEVICES AND ALL WIRING FOR ELECTRICAL OUTLETS, CONTROL DEVICES, OR OTHER ELECTRICAL DEVICES SHALL BEAR APPROVAL OF UNDERWRITERS LABORATORIES AND SHALL BE INSTALLED IN CONDUIT OR OTHER WIRING METHOD APPROVED BY THE BUILDING DEPARTMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING SEPARATE PERMIT.
- INDICATED DIMENSIONS ARE TO THE CENTERLINE OF THE OUTLET OR CLUSTER OF OUTLETS, U.O.N.
- STANDARD ELECTRICAL WALL OUTLETS SHALL BE MOUNTED VERTICALLY, AT 15" MIN. ABOVE UNFINISHED FLOOR TO BOTTOM OF BOX, U.O.N. FOR OUTLETS INDICATED AT SPECIAL MOUNTING HEIGHTS, MOUNTING HEIGHT SHALL BE MEASURED FROM UNFINISHED FLOOR TO CENTER OF BOX.
- SWITCHES ARE TO BE MOUNTED AT 48" MAX. A.F.F. TO TOP OF OUTLET BOX.
- ELECTRICAL CONTRACTOR SHALL VERIFY EXACT LOCATION OF BUILT IN APPLIANCES AND FIXTURES WITH CABINET MAKER.
- WHERE OUTLETS ARE SHOWN BACK TO BACK, INSTALL ON OPPOSITE SIDES OF STUD AND INSULATE BETWEEN.
- TENANT SHALL PROVIDE TELEPHONE & DATA CABLING. ALL NEW AND EXISTING TELEPHONE AND DATA OUTLETS SHALL HAVE PULL STRINGS. VERIFY, WITH TENANT OR OWNER, THE RE-USE OF EXISTING CABLING PRIOR TO REMOVAL.
- ALL EXISTING TELEPHONE & ELECTRICAL OUTLETS SHALL REMAIN UNLESS OTHERWISE NOTED OR AFFECTED BY NEW CONSTRUCTION.
- ALL ABANDONED ELECTRICAL CIRCUITS SHALL BE TAKEN BACK TO THE APPROPRIATE SUBPANEL. PULL ALL ABANDONED WIRES FROM CONDUIT.
- PROVIDE COVER PLATES FOR ALL NEW OUTLETS AND VERIFY WITH TENANT IF EXISTING COVER PLATES WILL BE REPLACED.
- GENERAL CONTRACTOR TO PROVIDE RING AND STRING AT ALL NEW DATA OUTLETS.
- UPON COMPLETION OF WORK, LABEL ELECTRICAL PANELS TO REFLECT AS-BUILT CONDITIONS.
- PROVIDE GROUND FAULT CIRCUIT INTERRUPTER WHERE REQUIRED PER CODE.
- OUTLETS REQUIRED TO BE LABELED AS CONTROLLED SHALL HAVE FACTORY IMPRINTED LABELS ON WHITE DEVICES.



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MORGAN HILL, CA 95037

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DRAWING TITLE:

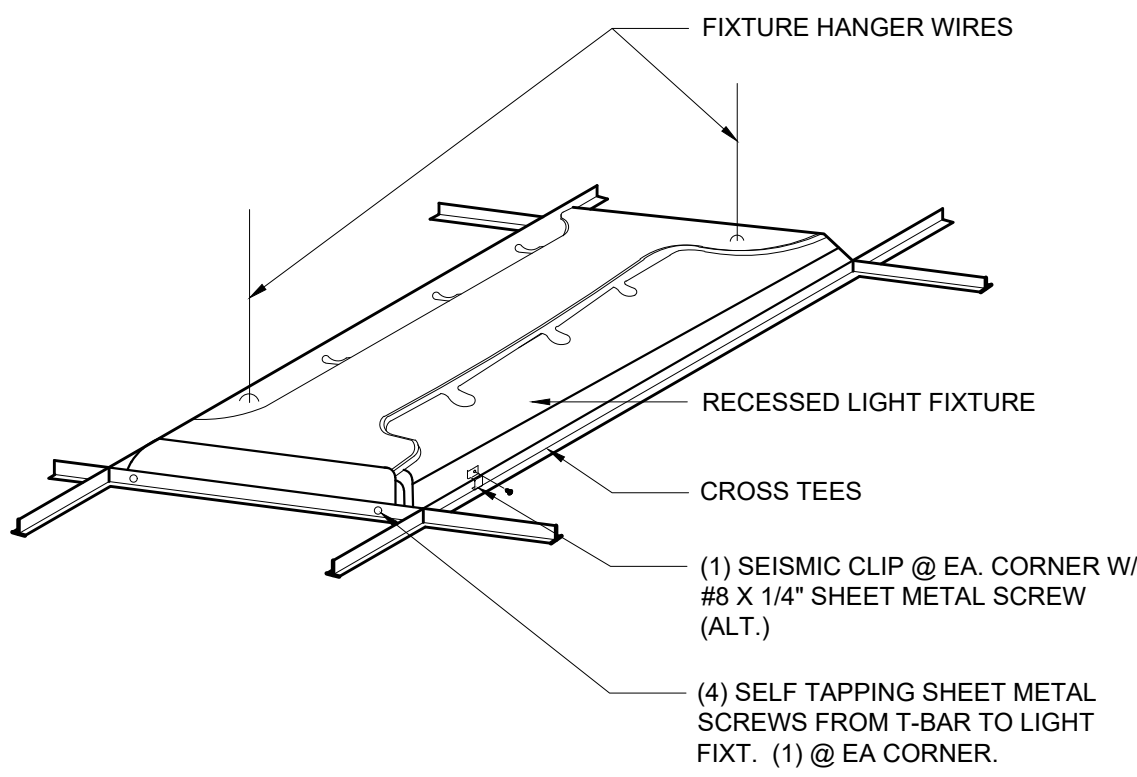
POWER & SIGNAL PLAN

DRAWING NO.:

A1.4

SCALE:

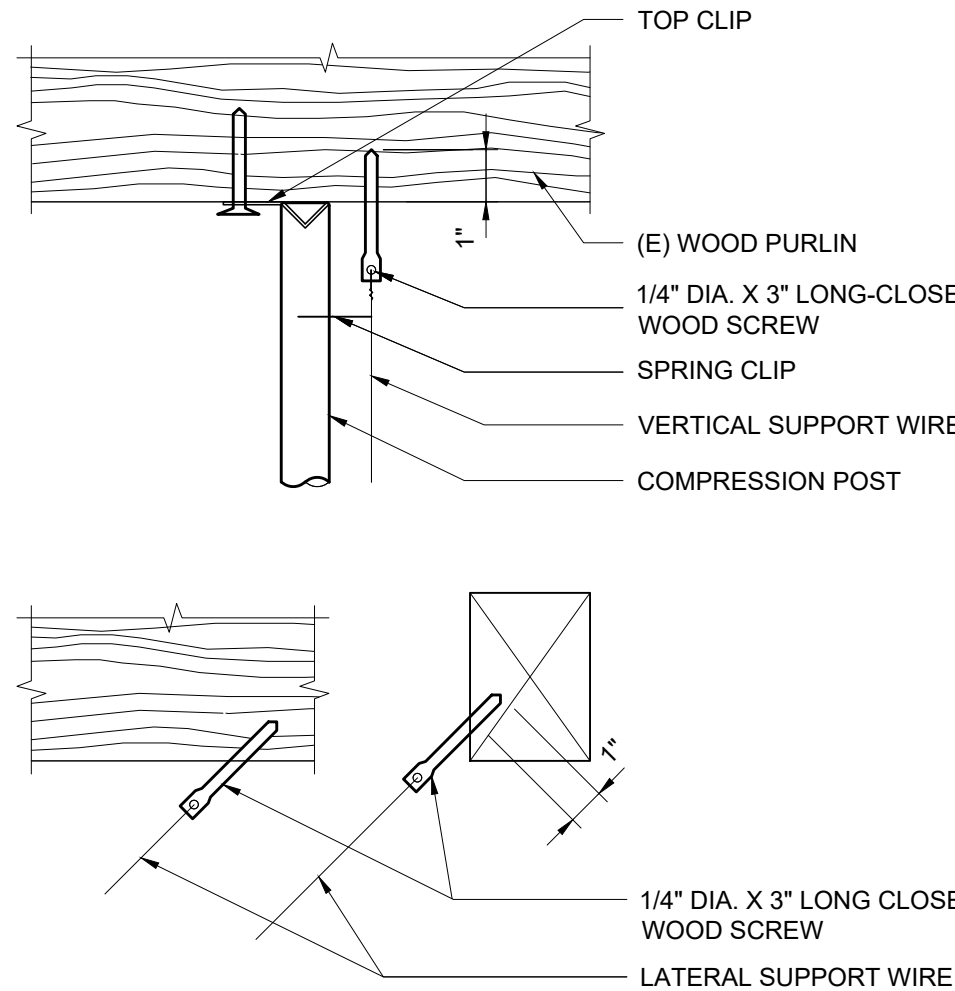
AS NOTED



NO. 12 GA. LATERAL SUPPORT WIRE WITHIN 3\"/>

5 LIGHT FIXTURE SUPPORT

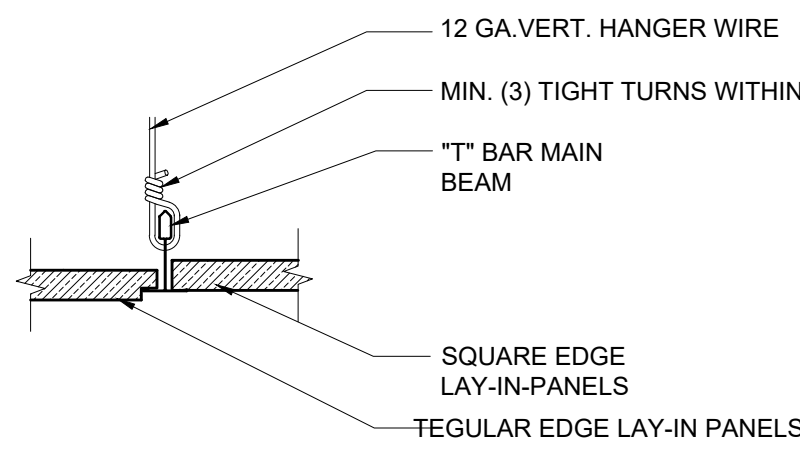
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NOTE: ATTACHMENTS MAY BE MADE TO ANY ROOF STRUCTURAL MEMBER EXCEPT SUB-PURLINS

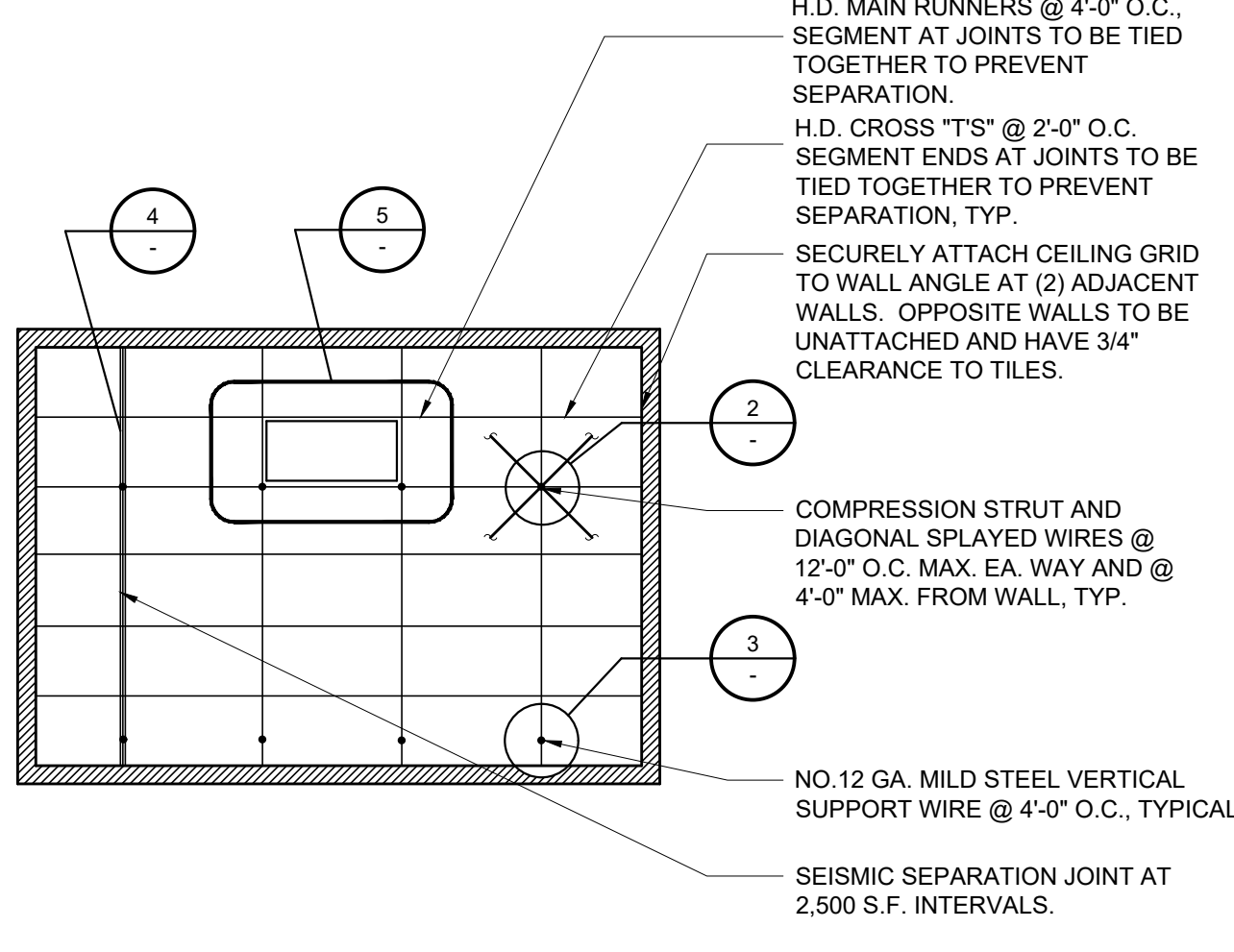
7 SPLAY WIRE ATTACHMENT

N.T.S.



8 CEILING GRID SUSPENSION DETAIL

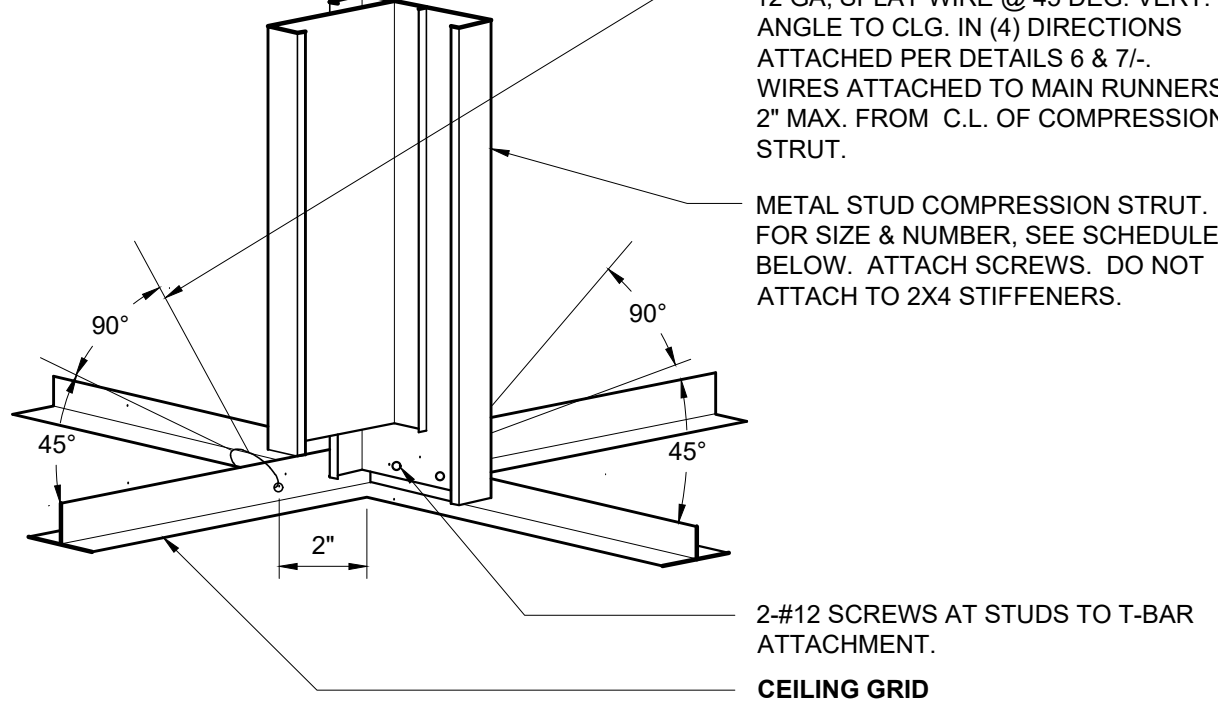
N.T.S.



ALL DESIGN ASPECTS OF CEILING SYSTEM SHALL BE IN CONFORMANCE WITH 2019 CBC SEC. 243.1.1 AND INSTALLED IN CONFORMANCE WITH THE PROVISIONS OF ASTM C 635 AND ASTM C 636.

1 CEILING SUPPORT

N.T.S.

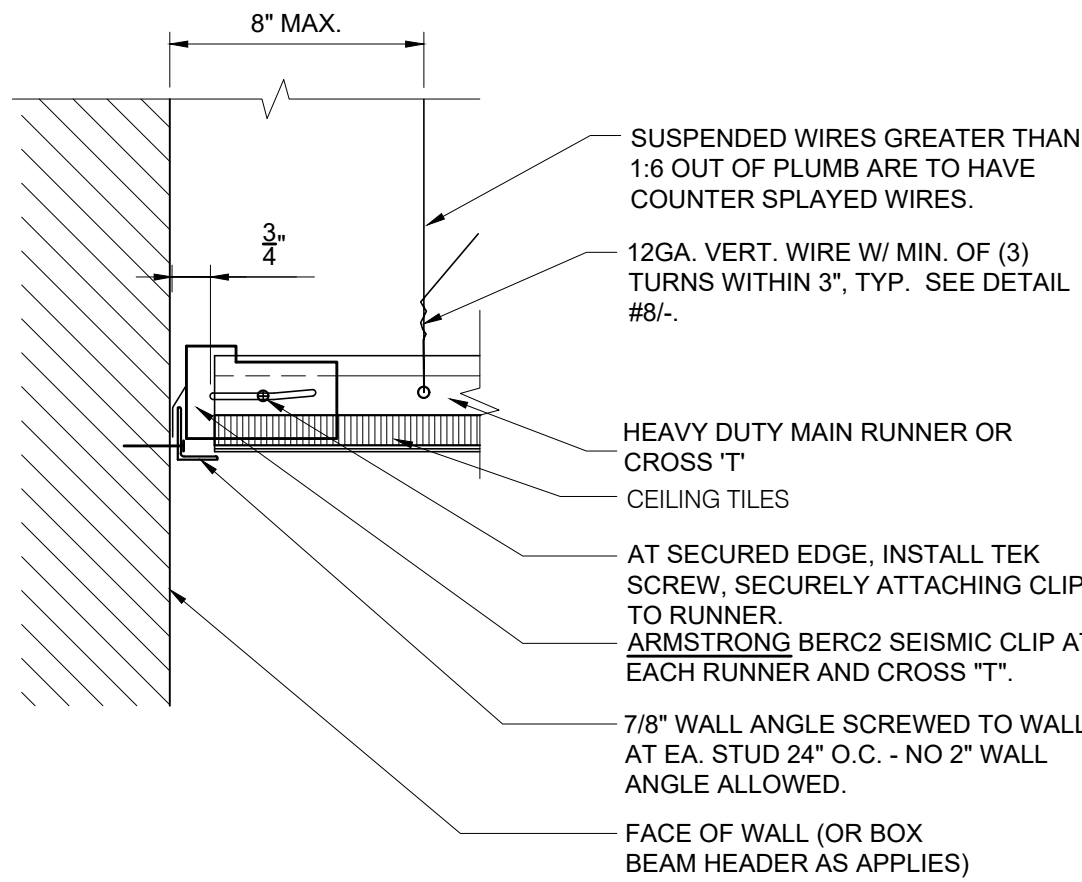


METAL STUD SIZE AND GAUGE	SCHEDULE	
	MAX. HT. OF COMPRESSION STRUT	
	SINGLE STUD	DOUBLE STUD
1-5/8" X 20 GA. S.S.	7'-8"	11'-8"
2-1/2" X 20 GA. S.S.	10'-5"	17'-2"
3-1/2" X 20 GA. S.S.	10'-3"	24'-3"
1-5/8" X 20 GA. W.C.	10'-0"	11'-6"

- FOR DOUBLE STUD ATTACH WEB TO FLANGE WITH NO. 6 SCREW @ 18\"/>

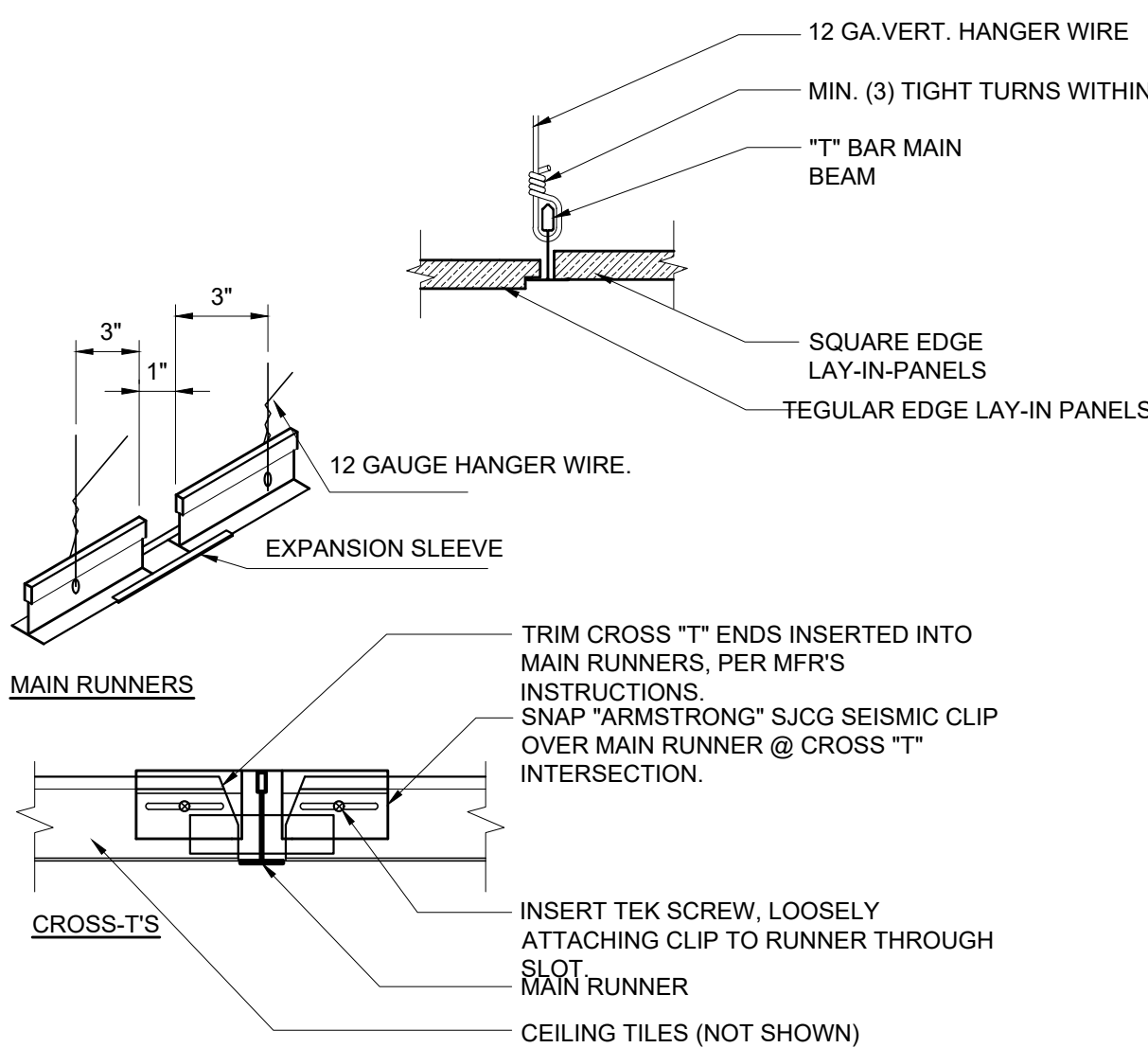
2 STUD STRUT DETAIL

N.T.S.



3 PERIMETER CEILING SUPPORT

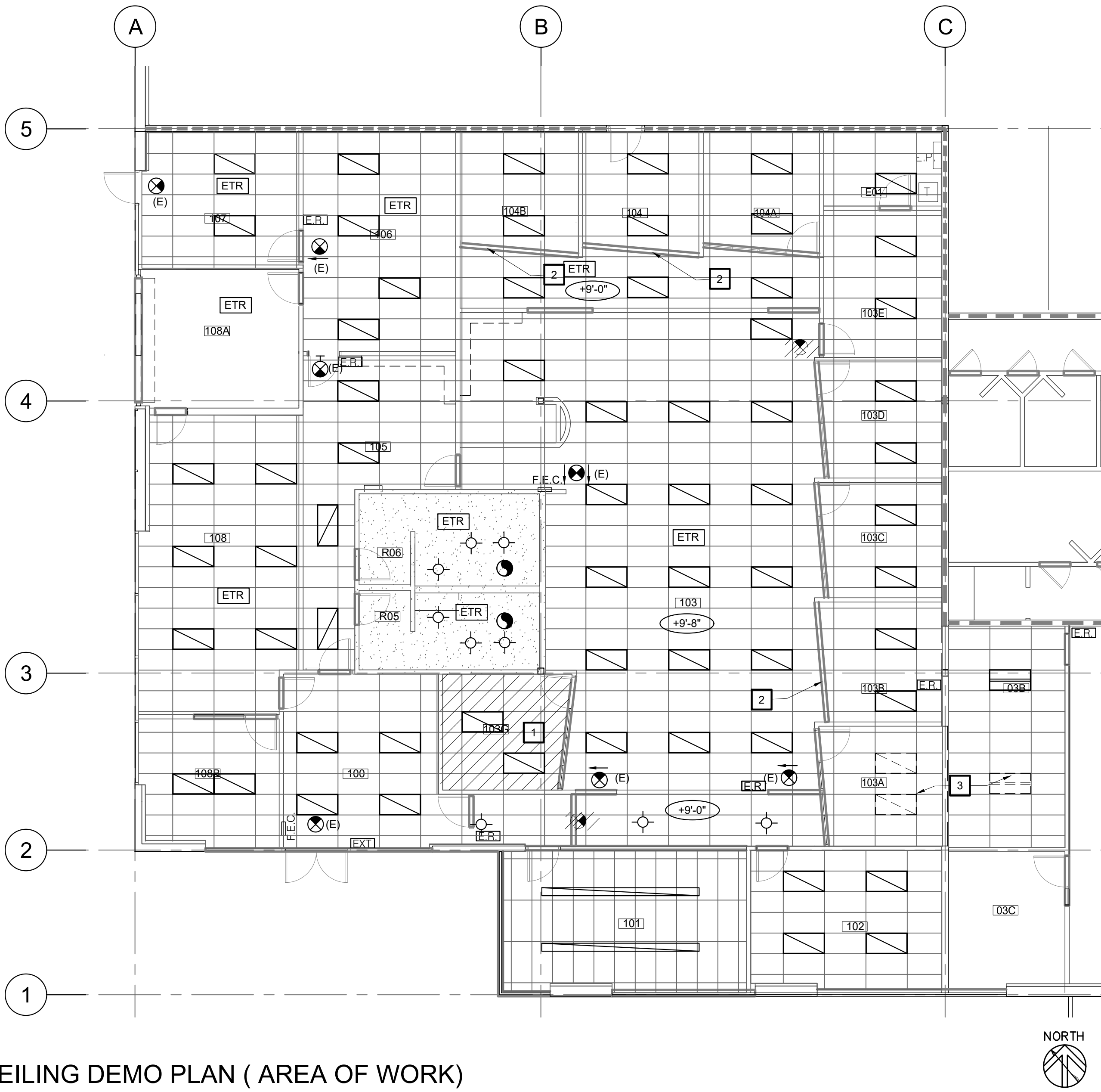
3\"/>



* SEISMIC JOINT TO BE INSTALLED EVERY 2,500 SQ. FT. OF NEW CEILING AREA AND AT JOINT BETWEEN NEW AND EXISTING T-BAR CEILING SYSTEMS.

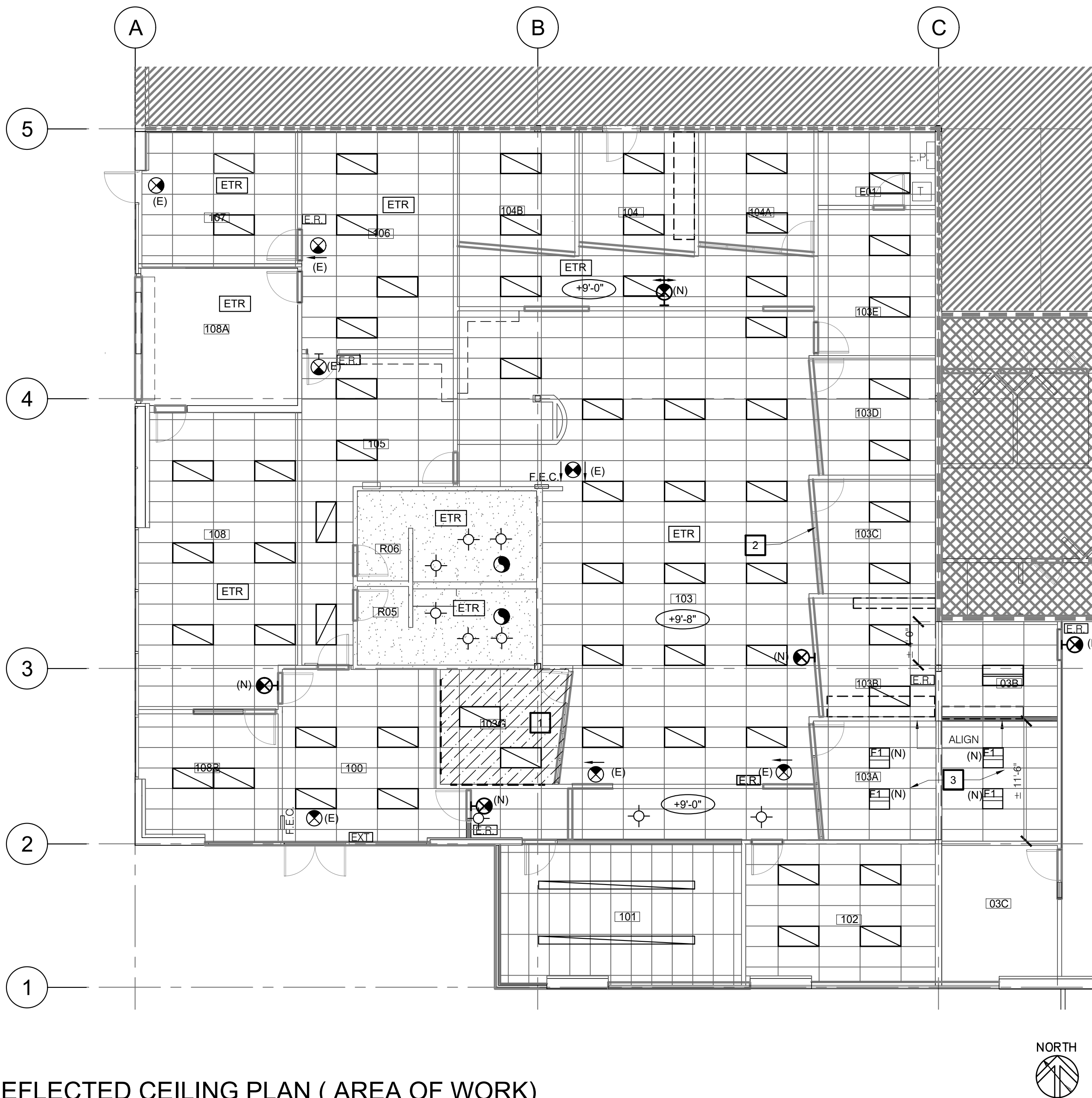
4 CEILING GRID SUSP./ SEISMIC JOINT DTLS

3\"/>



CEILING DEMO PLAN (AREA OF WORK)

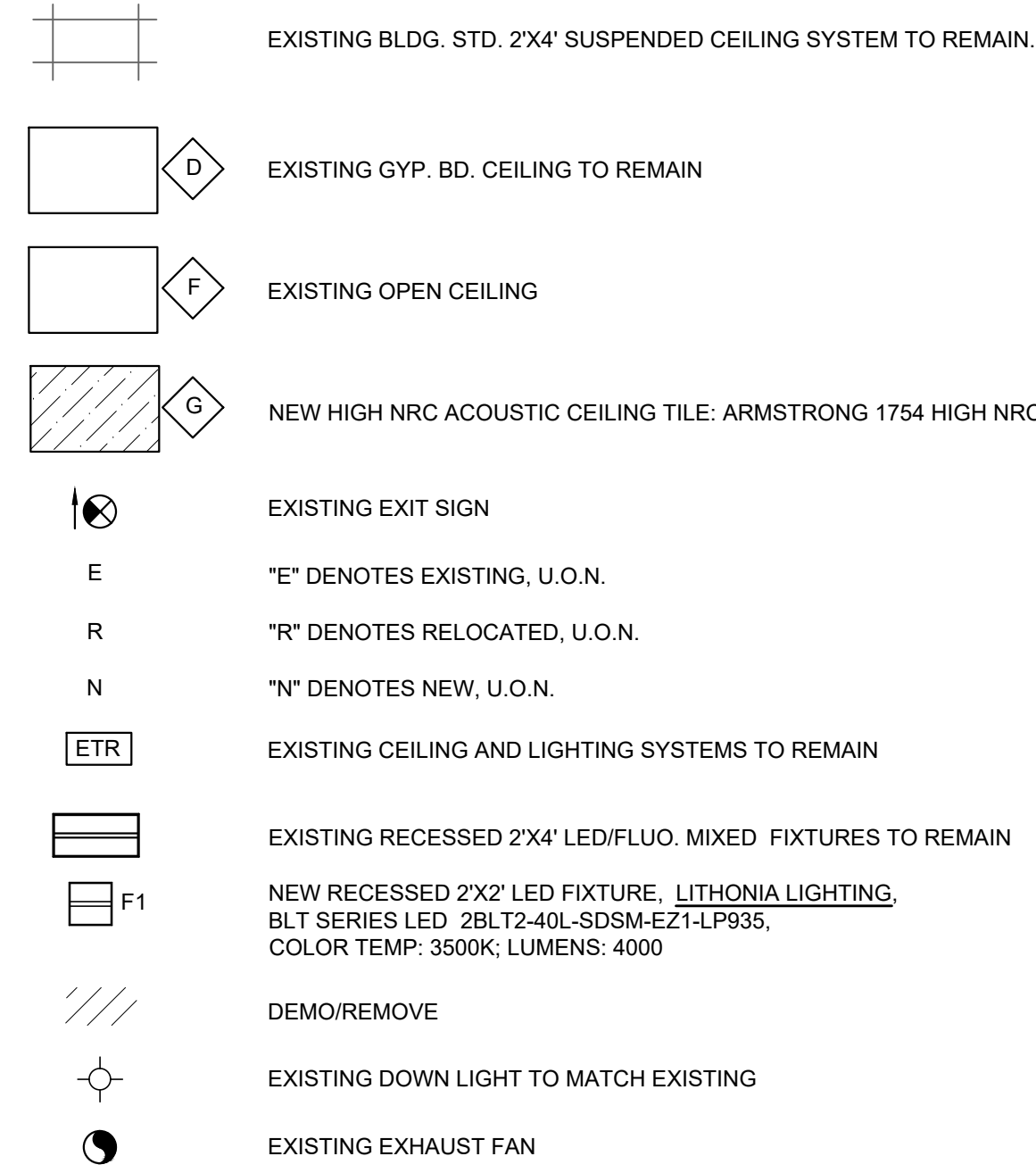
SCALE: 1/8\"/>



REFLECTED CEILING PLAN (AREA OF WORK)

SCALE: 1/8\"/>

LEGEND



GENERAL CEILING NOTES

- VERIFY EMERGENCY LIGHTING IS PROVIDED PER CODE REQUIREMENTS. PROVIDE FIXTURES WITH INTEGRAL EMERGENCY BATTERY PACKS PER 2022 CBC SEC. 1008. SURFACE MOUNTED EMERGENCY LIGHTING FIXTURES SHALL NOT BE ACCEPTED.
- ALL LIGHT FIXTURES AND HVAC REGISTERS SHALL BE LOCATED ON CEILING GRID U.O.N. ALL RECESSED DOWNLIGHTS / WALL WASHERS SHALL BE CENTERED IN THE VISUAL TILE PATTERN, U.O.N.
- NOTIFY ARTFUL ENVIRONMENT, LLC OF ANY CONFLICTS WITH THE SUSPENDED CEILING GRID SYSTEM, LIGHTING, HVAC, AND SPRINKLER FIXTURES PRIOR TO INSTALLATION. L
- ALL CEILING FIXTURES AND WIRING FOR LIGHT FIXTURES, EXIT SIGNS, OR OTHER ELECTRICAL DEVICES SHALL BE U.L. APPROVED, THERMALLY PROTECTED, AND SHALL BE INSTALLED IN CONDUIT OR OTHER WIRING METHOD APPROVED BY THE BUILDING DEPARTMENT.
- ALL SWITCHES, RHEOSTATS, AND OTHER WALL MOUNTED CONTROL DEVICES SHALL BE MOUNTED AT 48\"/>

SHEET NOTES

- EXISTING CEILING SYSTEMS TO REMAIN. +9'-0\"/>

KEY NOTES

- REPLACE EXISTING 2 X 4 CEILING TILE WITH HIGH NRC CEILING TILE, MATCH EXISTING EDGE STYLE.
- HEADER TO REMAIN WHERE GLAZING SYSTEM REMOVED.
- REMOVE (3) 2X4 LIGHTING FIXTURES AND REPLACE WITH (4) 2X2 FIXTURES FOR UNIFORMITY OF ILLUMINATION TO ACHIEVE ±40 FC AT TABLE SURFACE IN WORK AREA.

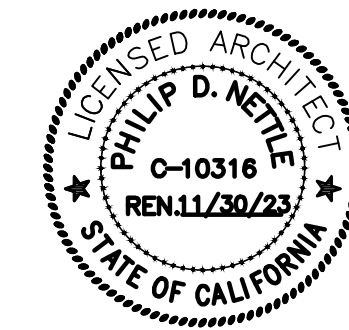
GENERAL HVAC NOTES

- REFER TO MECHANICAL PLANS FOR COMPLETE MECHANICAL SCOPE.
- MODIFY THE EXISTING HVAC SYSTEM FOR NEW CONSTRUCTION. ADJUST THERMOSTATS, PROVIDE SUPPLIES AND RETURNS, AND BALANCE THE SYSTEM AS REQUIRED.
- THERMOSTATS SHALL BE LOCATED AT 48\"/>



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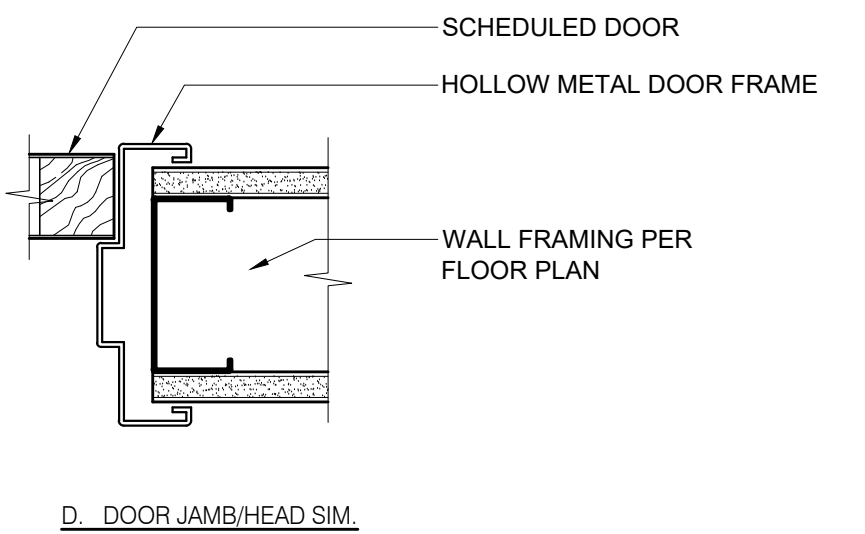
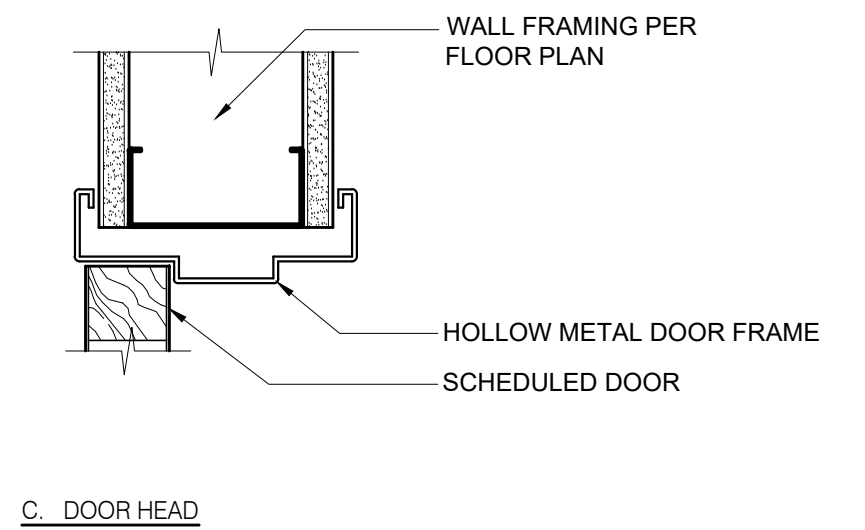
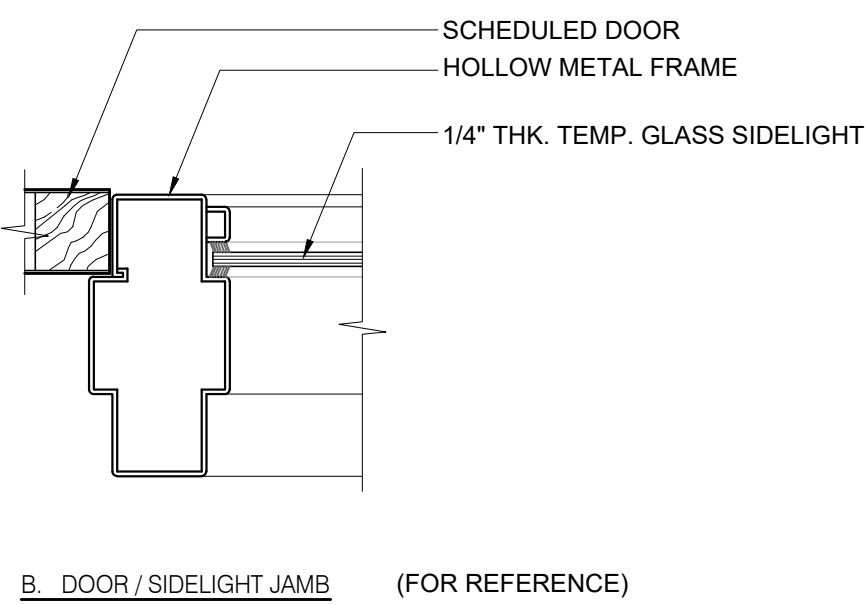
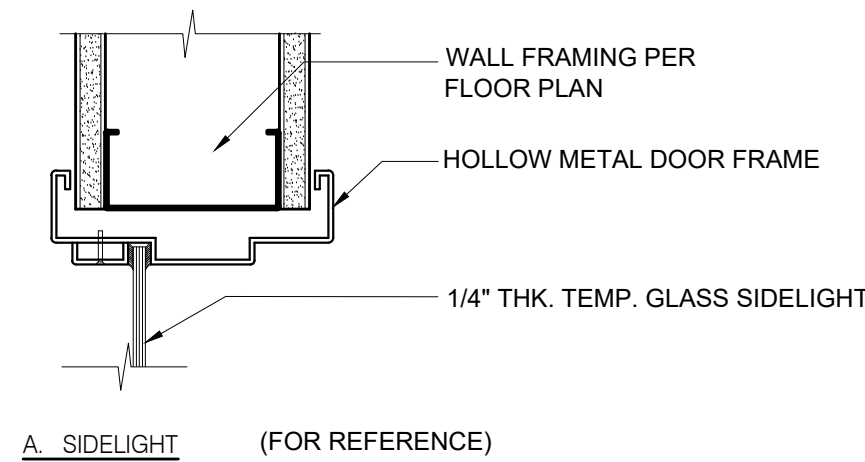
REFLECTED CEILING PLAN
& DETAILS

DRAWING NO.:

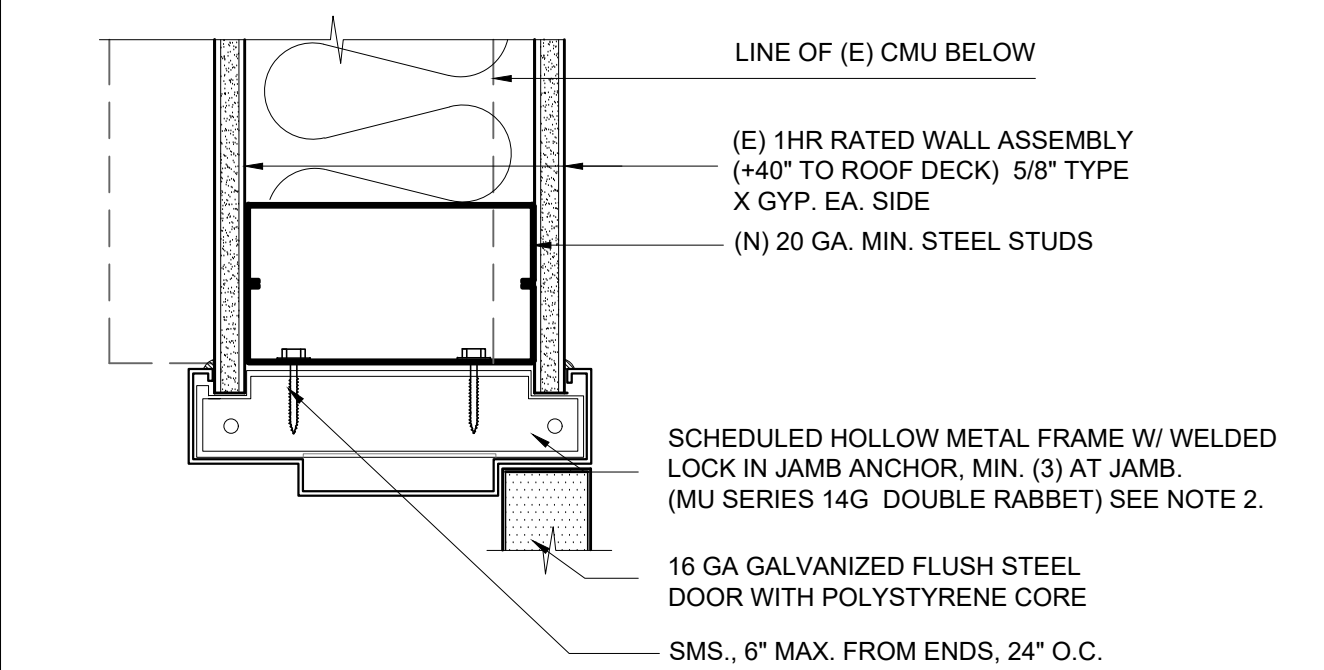
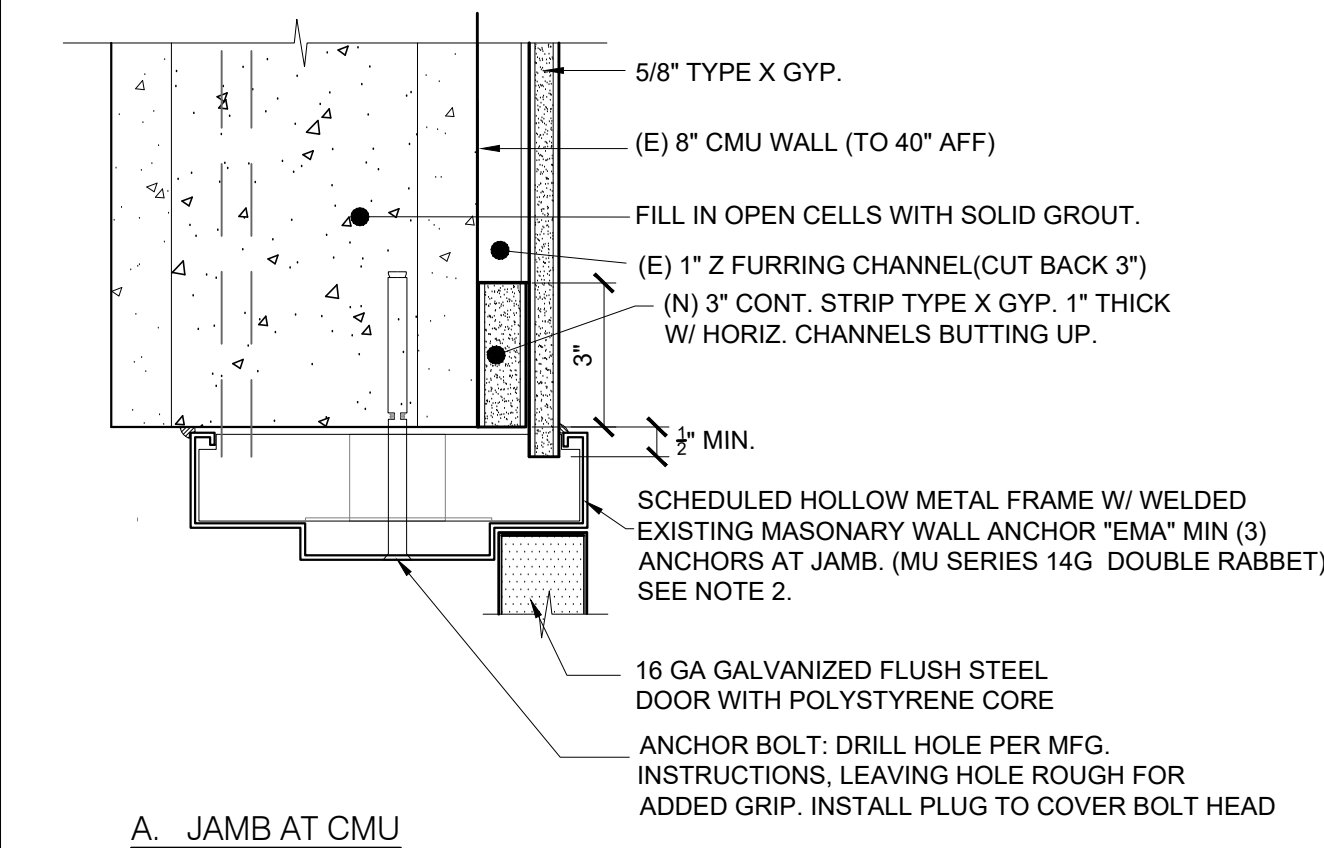
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SCALE:

AS NOTED



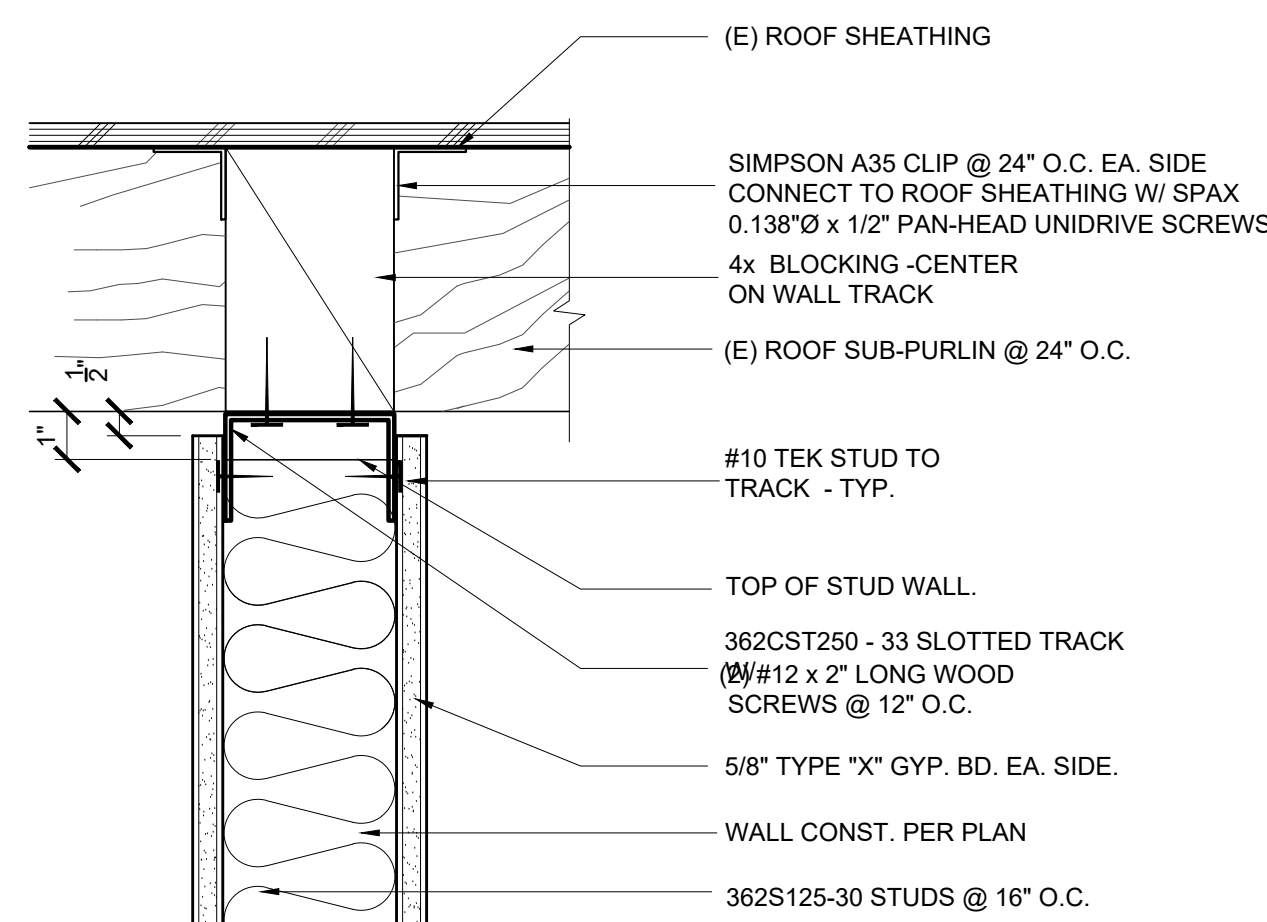
18 HOLLOW METAL FRAME



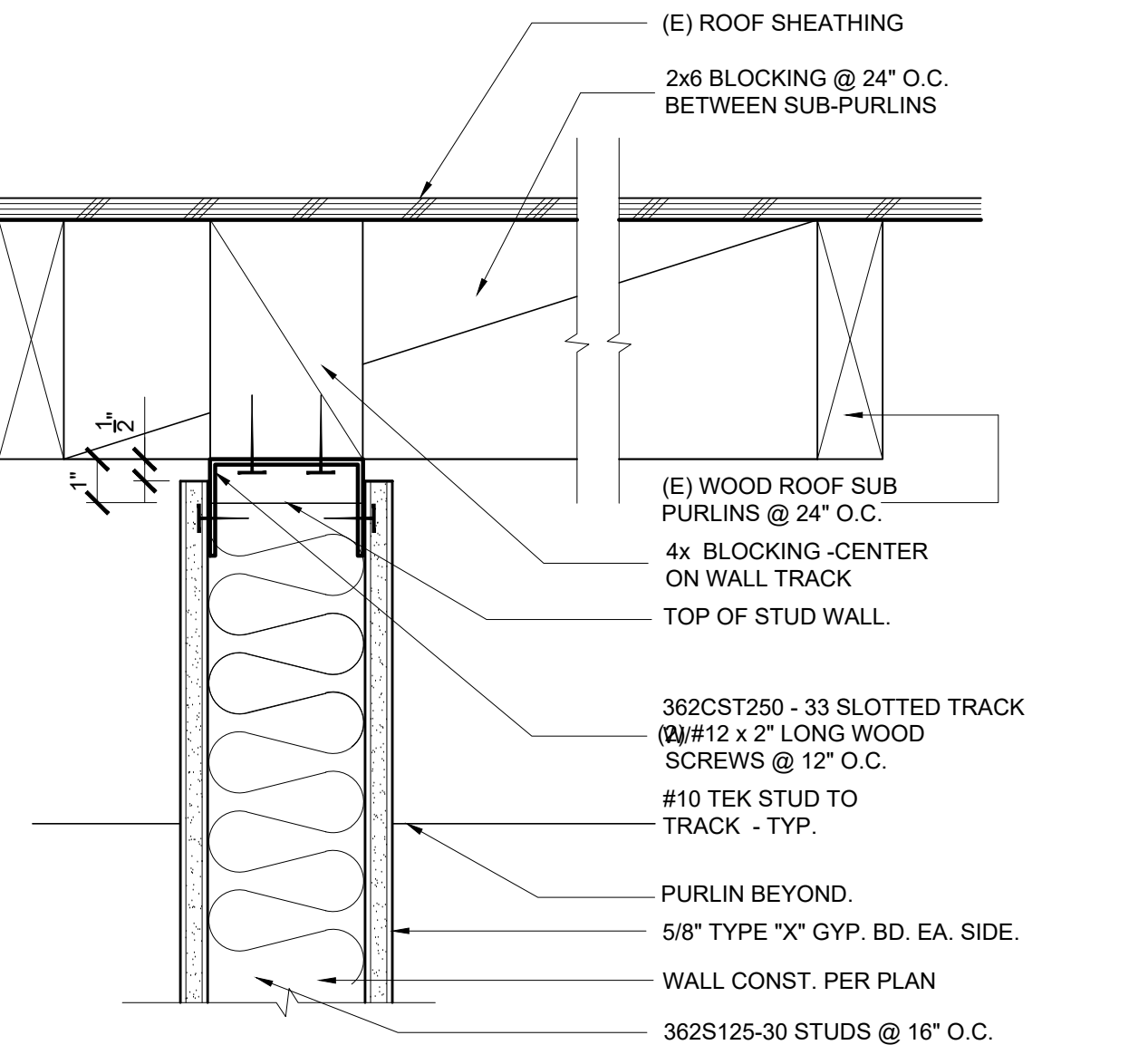
INSTALL NOTES:

- ALL FIRE RATED FRAMES MUST BE INSTALLED IN ACCORDANCE WITH NFPA PAMPHLET 80 AND THE AUTHORITY HAVING JURISDICTION. BUTTED FRAME AT (E) WALL CONSTRUCTION PER INSTALLATION PER NFPA 80 AS FIGURE A.6.3.1.3(A) AND A.6.3.1.3(B)
- FRAME REQUIRES EMA ANCHORS AT CMU AND STANDARD LOCK IN JAMB ANCHOR AT METAL STUD. COORDINATE W/ ARCHITECT AND MANUFACTURER PRIOR TO ORDER.
- COORDINATION ALL ELECTRICAL REQUIREMENTS FOR DOORS AND FRAMES. MAKE PROVISIONS FOR INSTALLATION OF ELECTRICAL ITEMS ARRANGED SO THAT WIRING CAN BE READILY REMOVED AND REPLACED.
- AT LEAST ONE LAYER OF DRYWALL EACH SIDE SHALL EXTEND AT LEAST 1/2" INTO FRAME THROAT.
- AT (E) MASONRY WALL WHERE UTILIZING A BUTTED TO WALL APPLICATION IS REQUIRED, THE ROUGH OPENING SHALL BE NO LESS THAN 3/16" (4.8 MM) LARGER THAN THE FRAME ON ALL THREE SIDES (OR AS APPLIES)
- INSTALL LISTED INTUMESCENT CAULK OR SEALANT AROUND PERIMETER OF FRAME, MAKING SURE TO COVER ANY GAPS CAUSED BY IRREGULARITIES IN WALLS WHERE THE FRAME BUTT

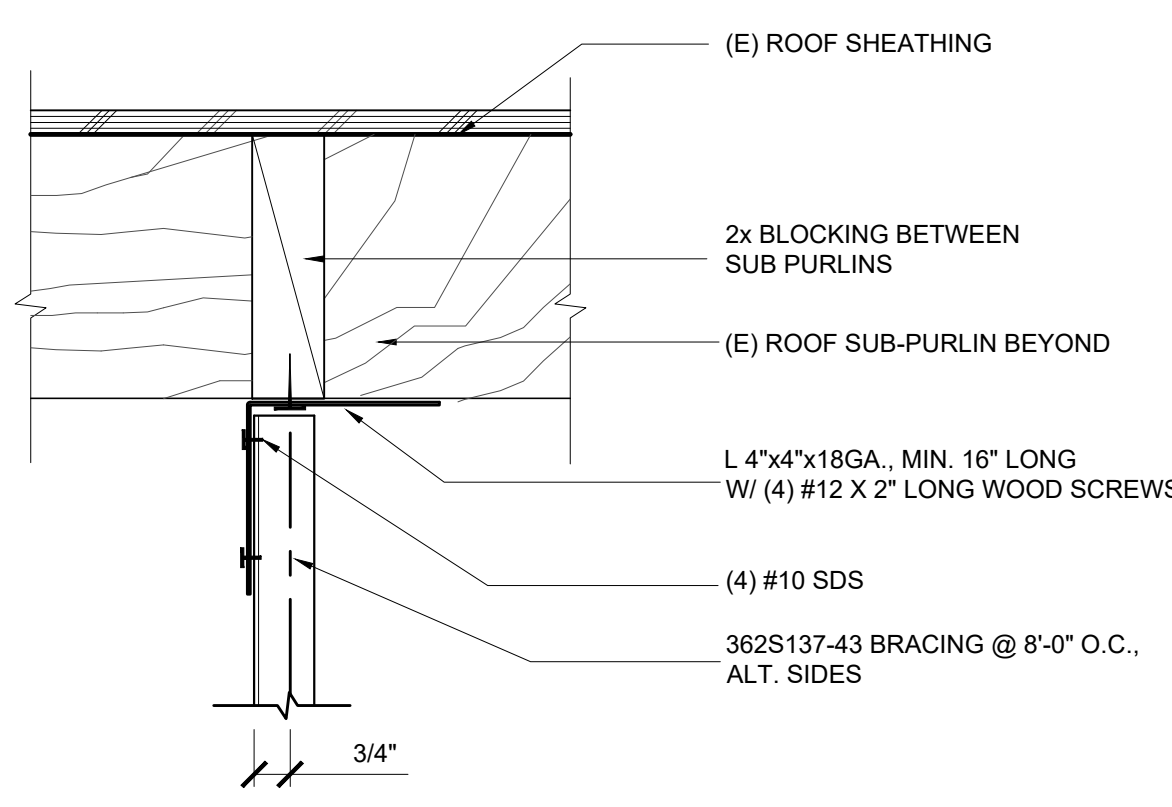
20 HOLLOW METAL FRAME- PER NFPA 80



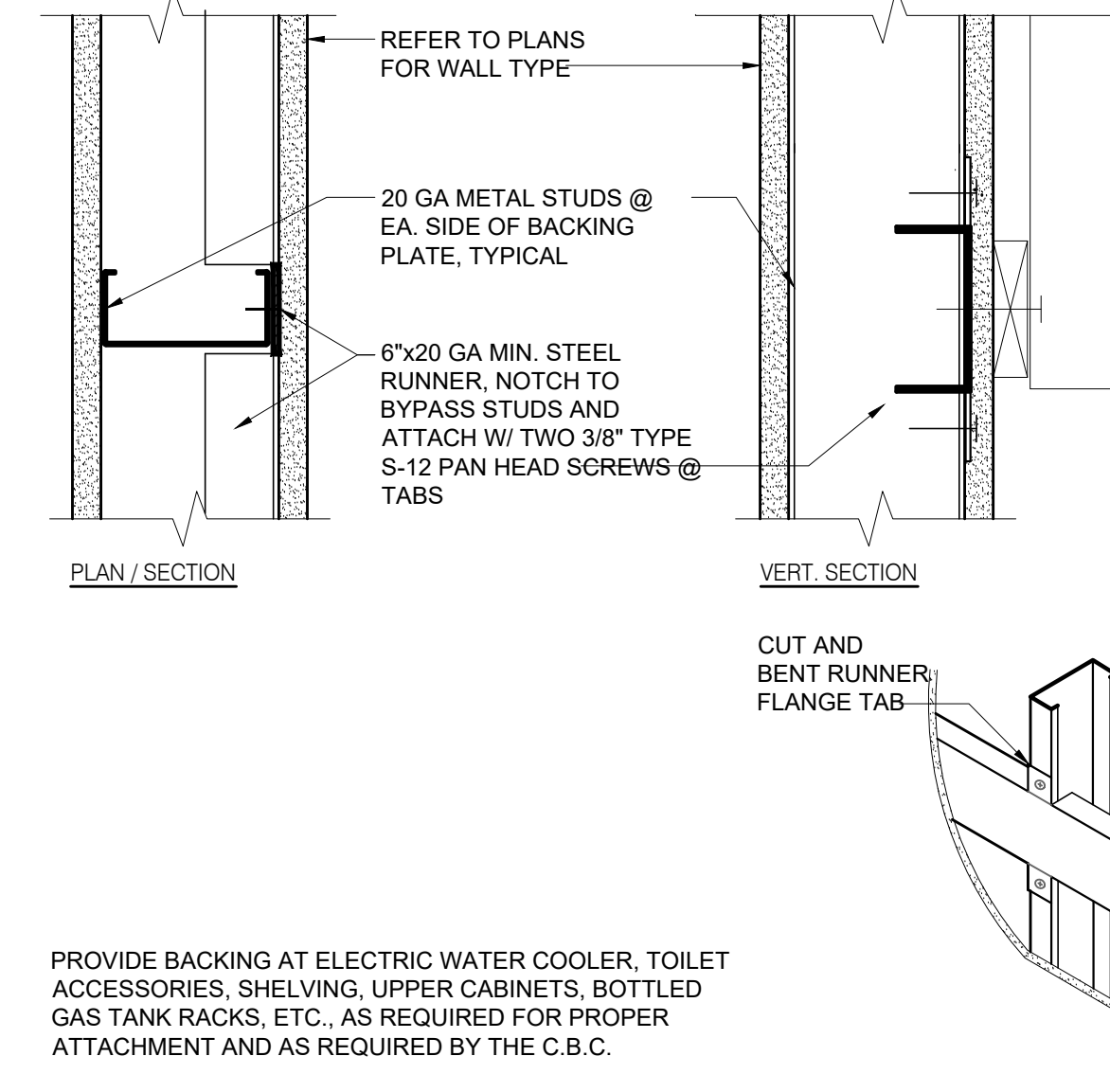
13 WALL HEAD PERPENDICULAR



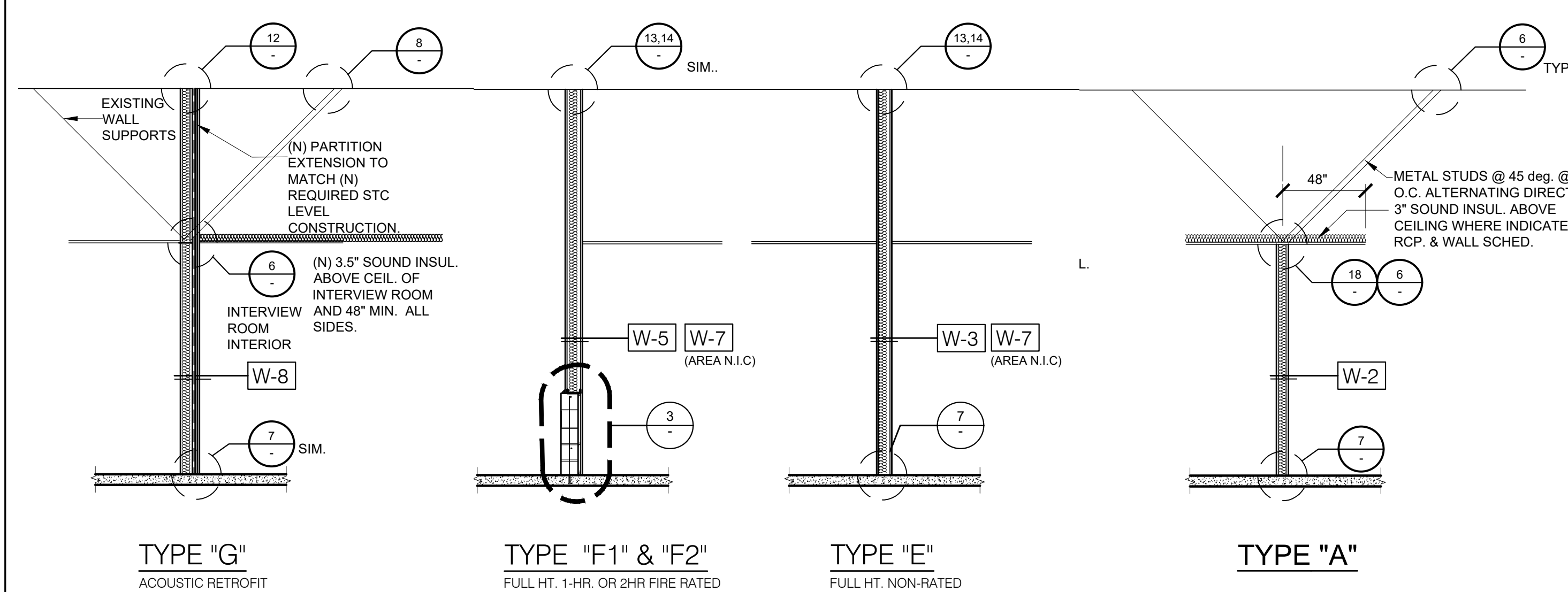
14 WALL HEAD PARALLEL



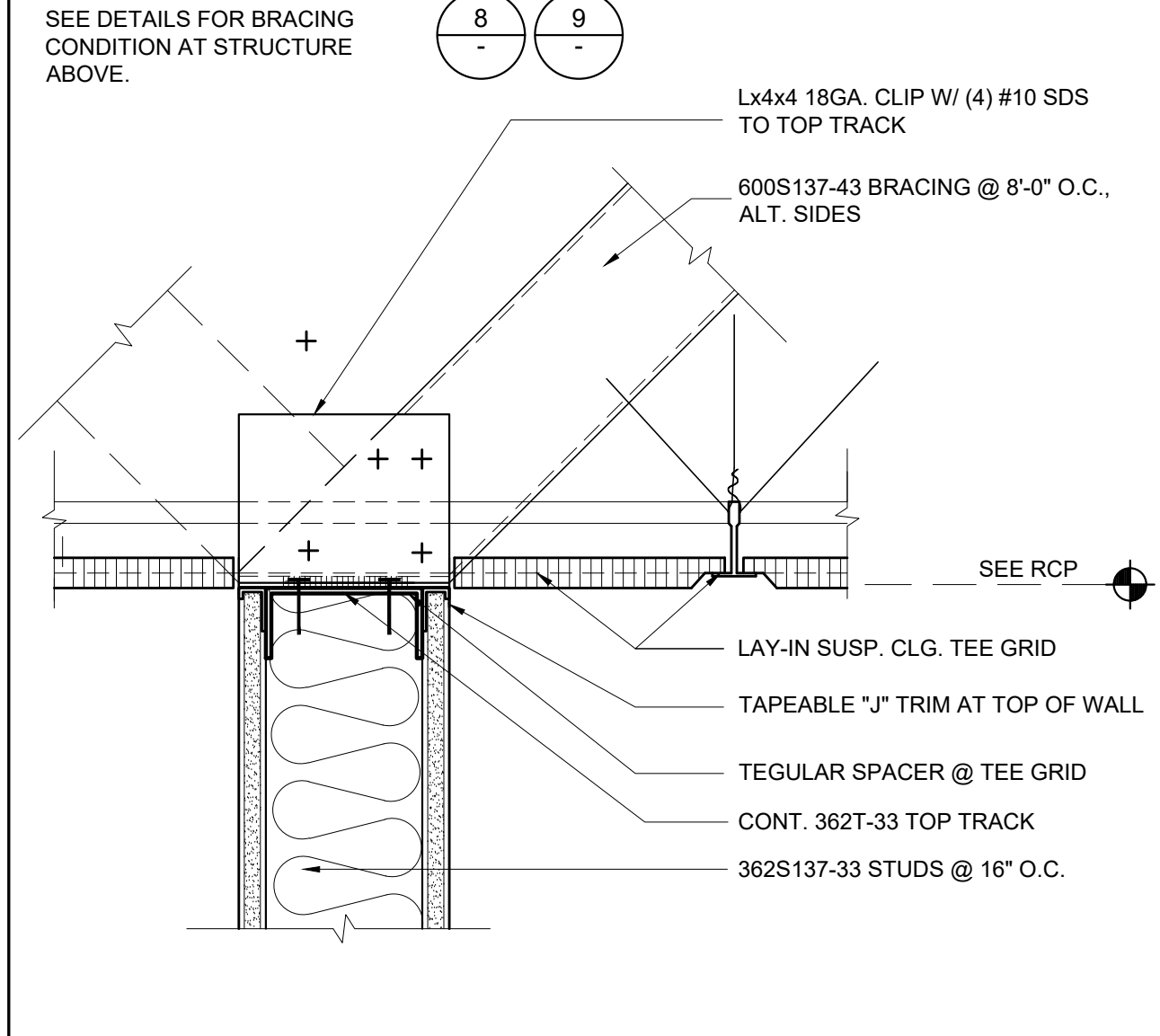
9 WALL BRACE AT WOOD ROOF



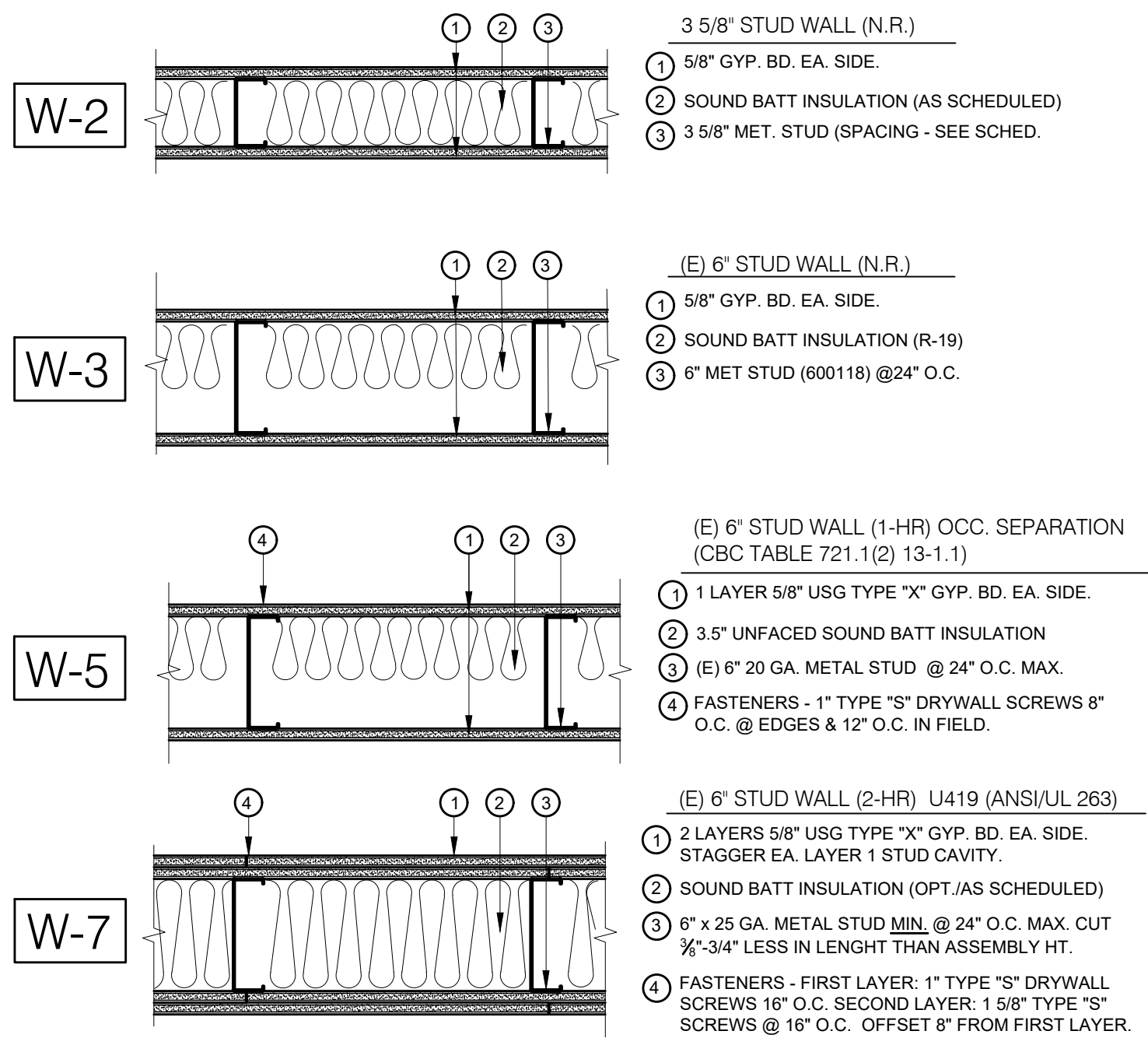
10 WALL BRACING



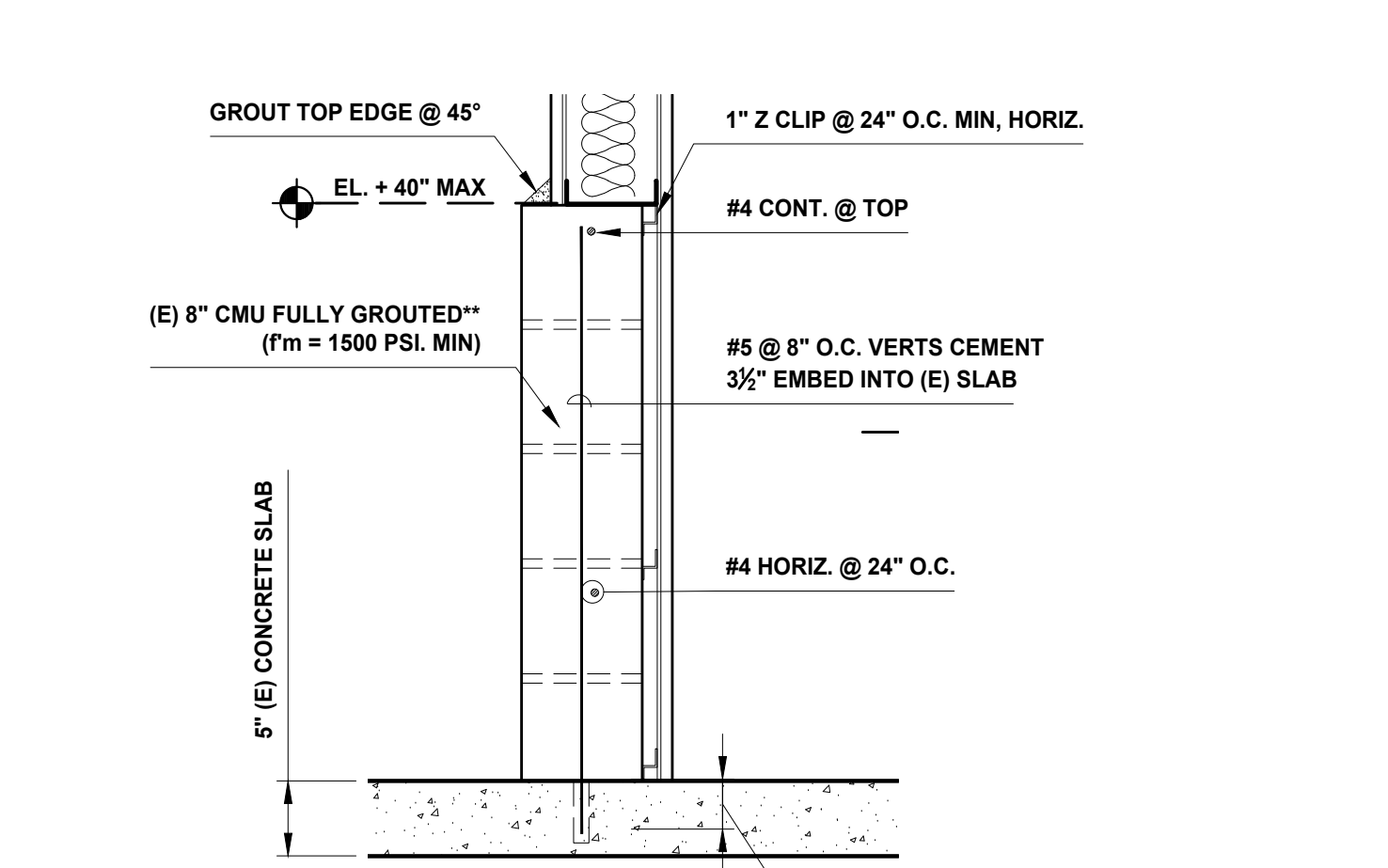
5 PARTITION TYPES



6 CEILING HT. WALL HEAD



2 WALL CONSTRUCTION TYPES

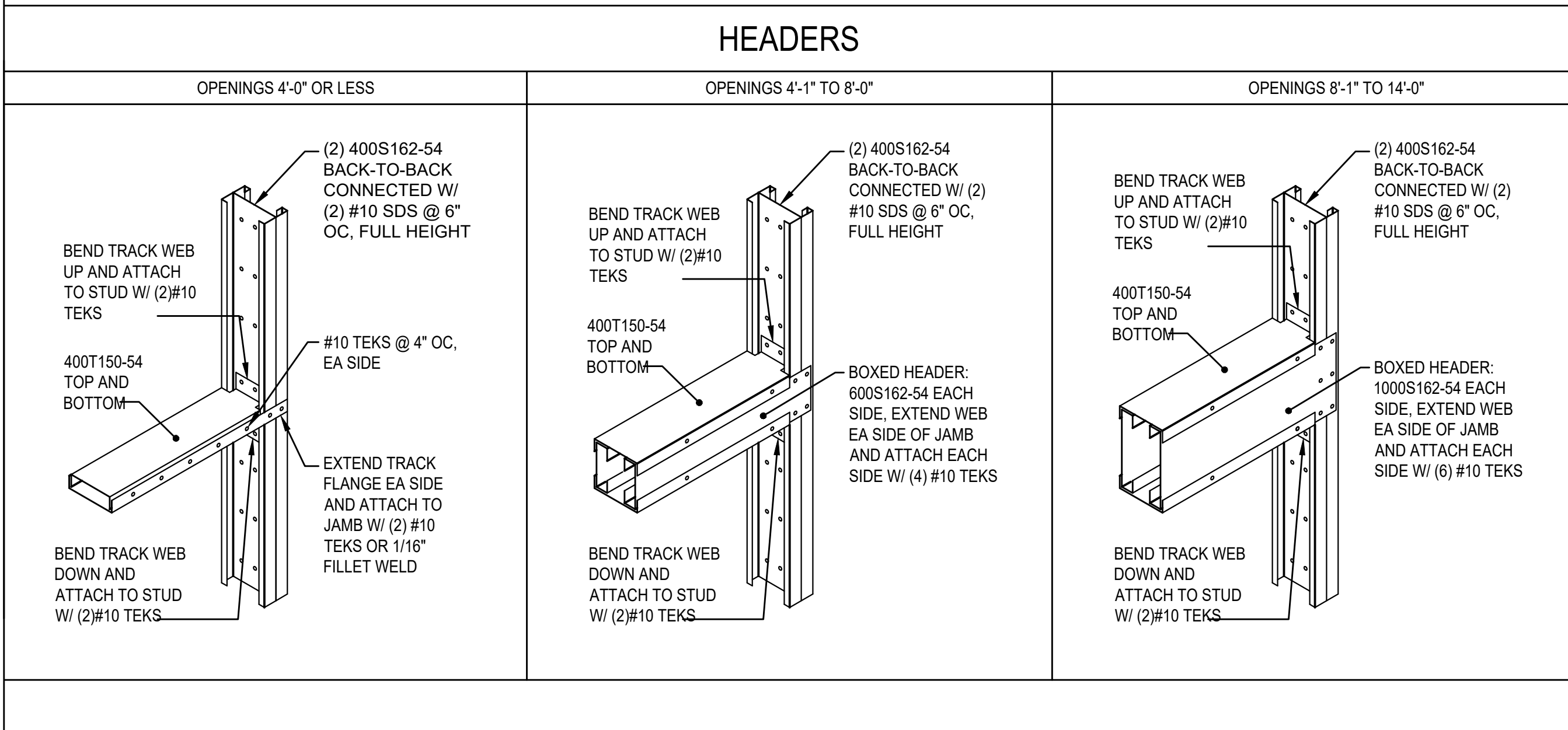


3 (E) CMU @ FULL HT. WALL (AS-BLT. REF.)

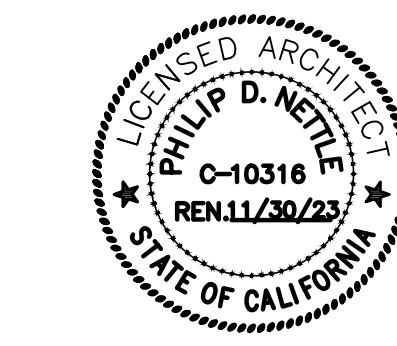


8 WALL BRACE AT WOOD ROOF

15 HEADERS BY OPENING SIZE



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10/06/2023 SUBMIT FOR PLAN CHECK

DRAWING TITLE:

PARTITION & CONSTRUCTION DETAILS

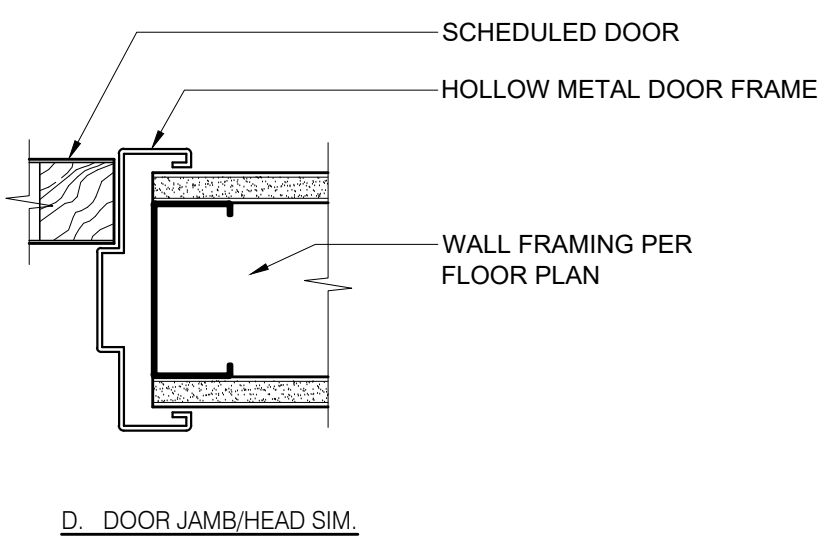
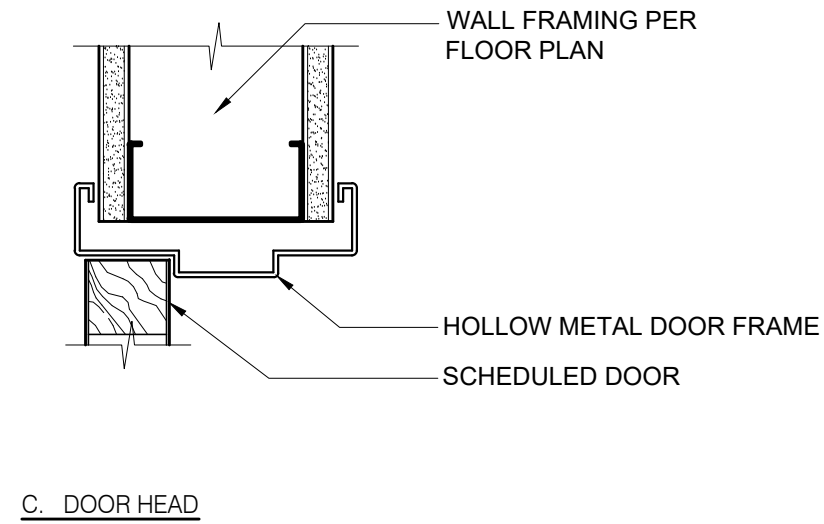
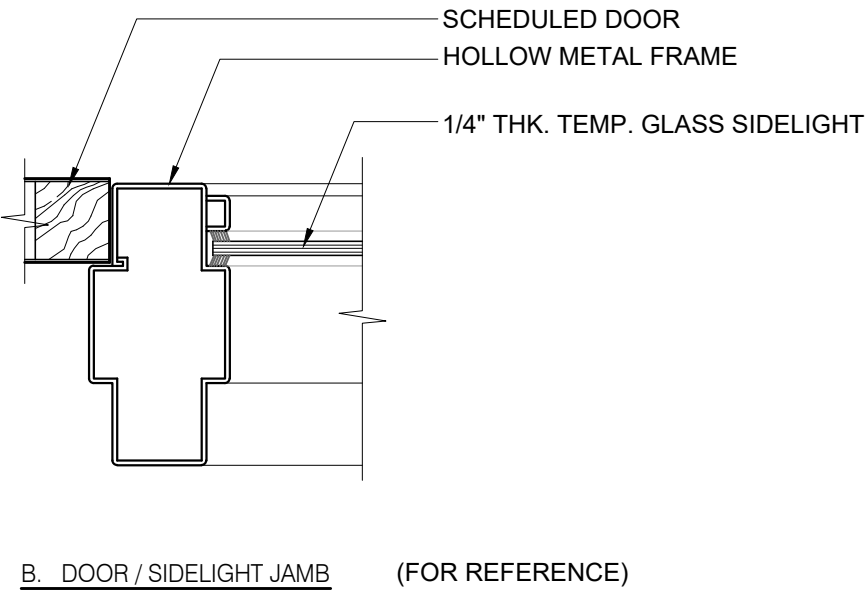
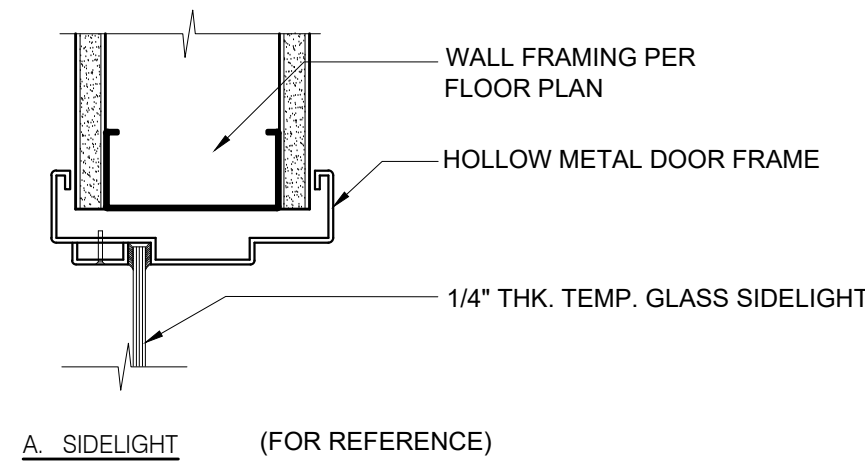
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A3.0

SCALE:

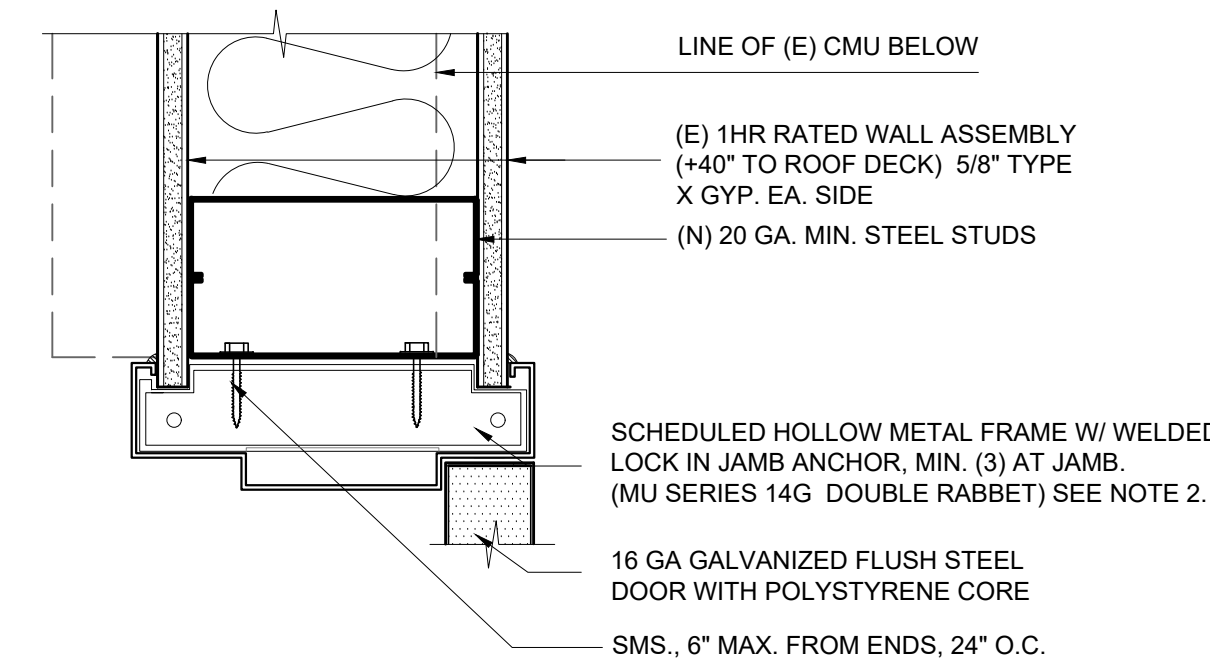
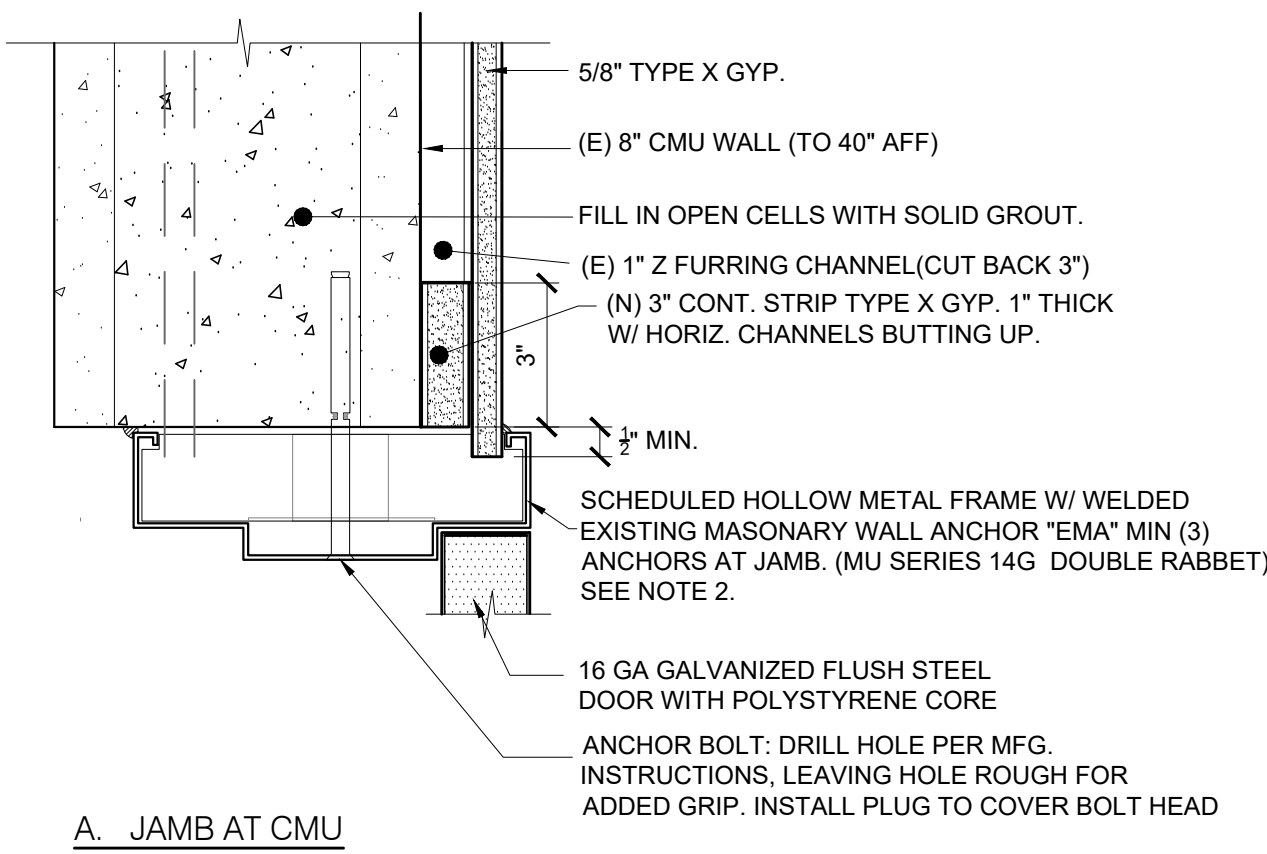
AS NOTED

2301-A3.0_CONSTD.TL.DWG
XREF FILES:



18 HOLLOW METAL FRAME

3" = 1'-0"

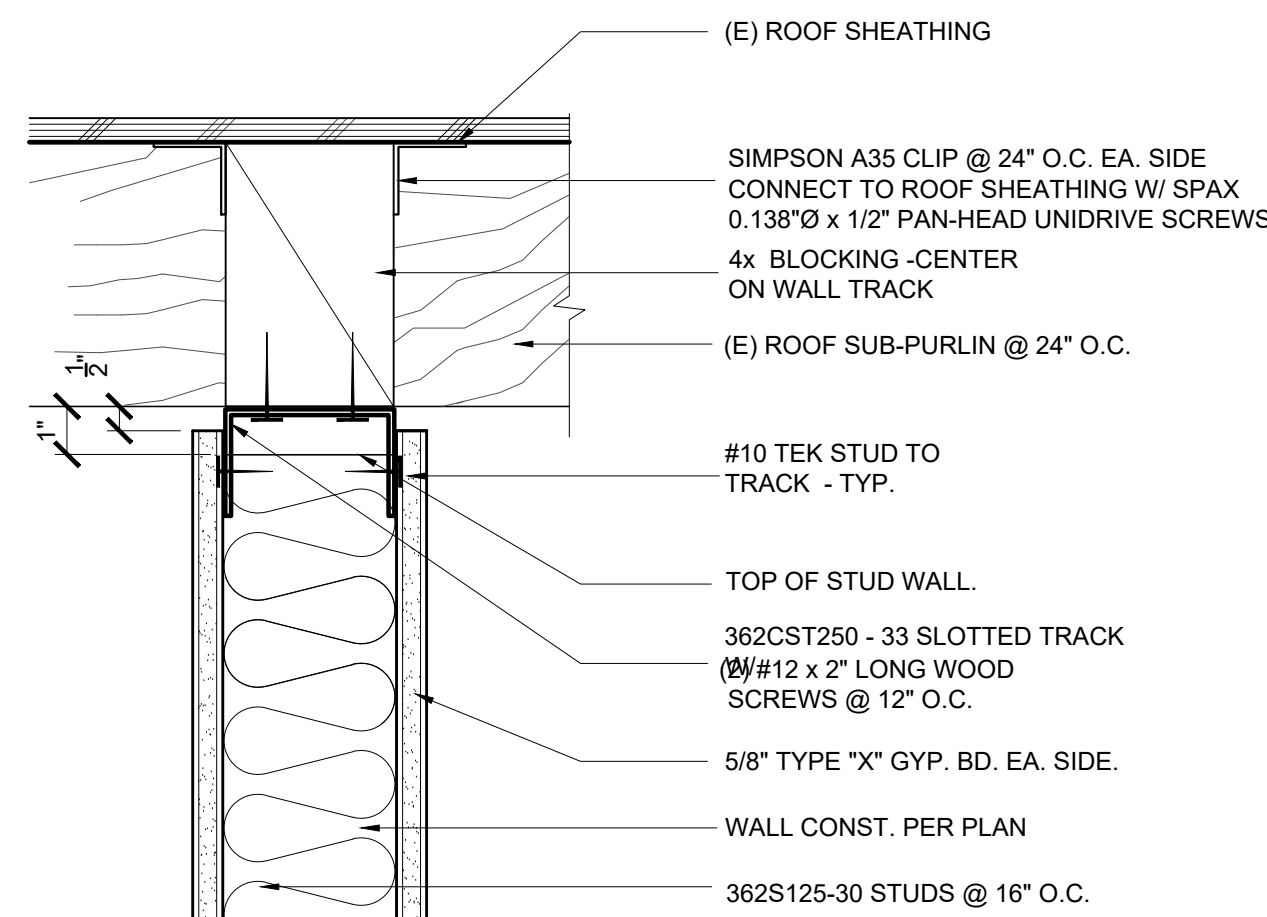


INSTALL NOTES:

- ALL FIRE RATED FRAMES MUST BE INSTALLED IN ACCORDANCE WITH NFPA PAMPHLET 80 AND THE AUTHORITY HAVING JURISDICTION. BUTTED FRAME AT (E) WALL CONSTRUCTION PER INSTALLATION PER NFPA 80 AS FIGURE A.6.3.1.3(A) AND A.6.3.1.3(B)
- FRAME REQUIRES EMA ANCHORS AT CMU AND STANDARD LOCK IN JAMB ANCHOR AT METAL STUD. COORDINATE W/ ARCHITECT AND MANUFACTURER PRIOR TO ORDER.
- COORDINATION ALL ELECTRICAL REQUIREMENTS FOR DOORS AND FRAMES. MAKE PROVISIONS FOR INSTALLATION OF ELECTRICAL ITEMS ARRANGED SO THAT WIRING CAN BE READILY REMOVED AND REPLACED.
- AT LEAST ONE LAYER OF DRYWALL EACH SIDE SHALL EXTEND AT LEAST 1/2" INTO FRAME THROAT.
- AT (E) MASONRY WALL WHERE UTILIZING A BUTTED TO WALL APPLICATION IS REQUIRED; THE ROUGH OPENING SHALL BE NO LESS THAN 3/16" (4.8 MM) LARGER THAN THE FRAME ON ALL THREE SIDES (OR AS APPLIES)
- INSTALL LISTED INTUMESCENT CAULK OR SEALANT AROUND PERIMETER OF FRAME, MAKING SURE TO COVER ANY GAPS CAUSED BY IRREGULARITIES IN WALLS WHERE THE FRAME BUTT

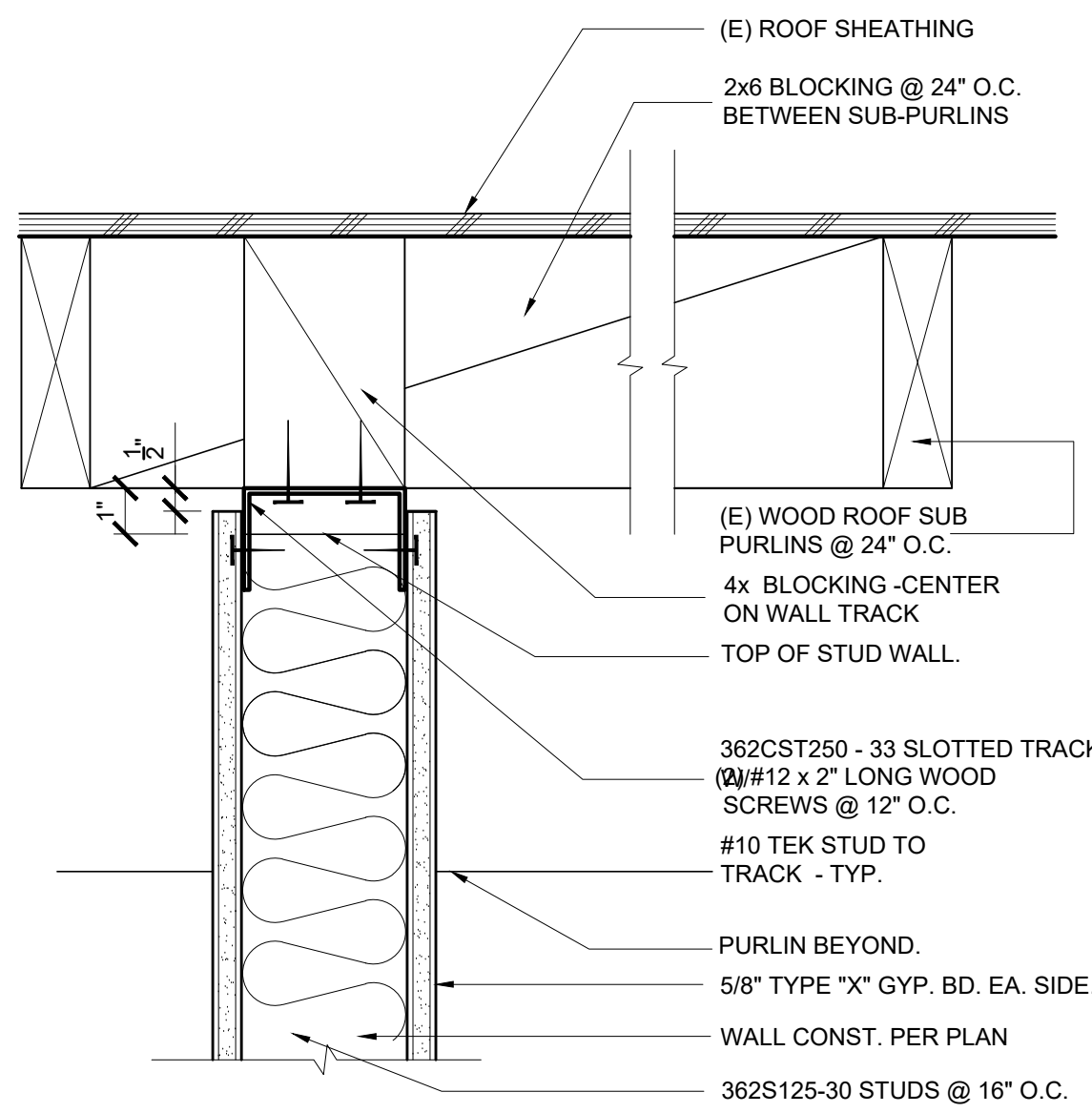
20 HOLLOW METAL FRAME- PER NFPA 80

3" = 1'-0"



13 WALL HEAD PERPENDICULAR

3" = 1'-0"

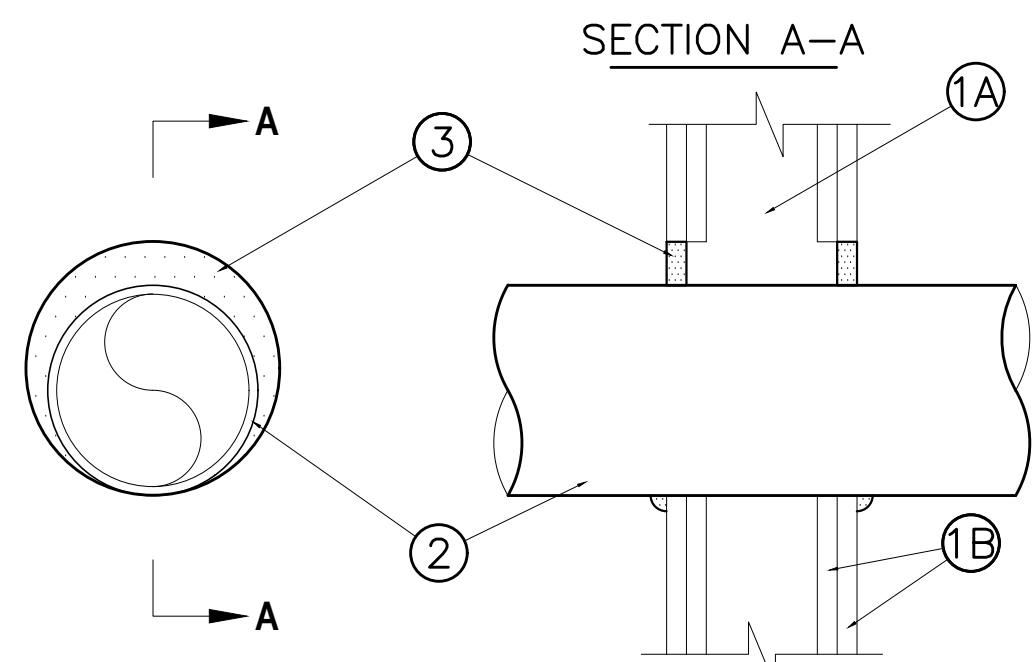


14 WALL HEAD PARALLEL

3" = 1'-0"



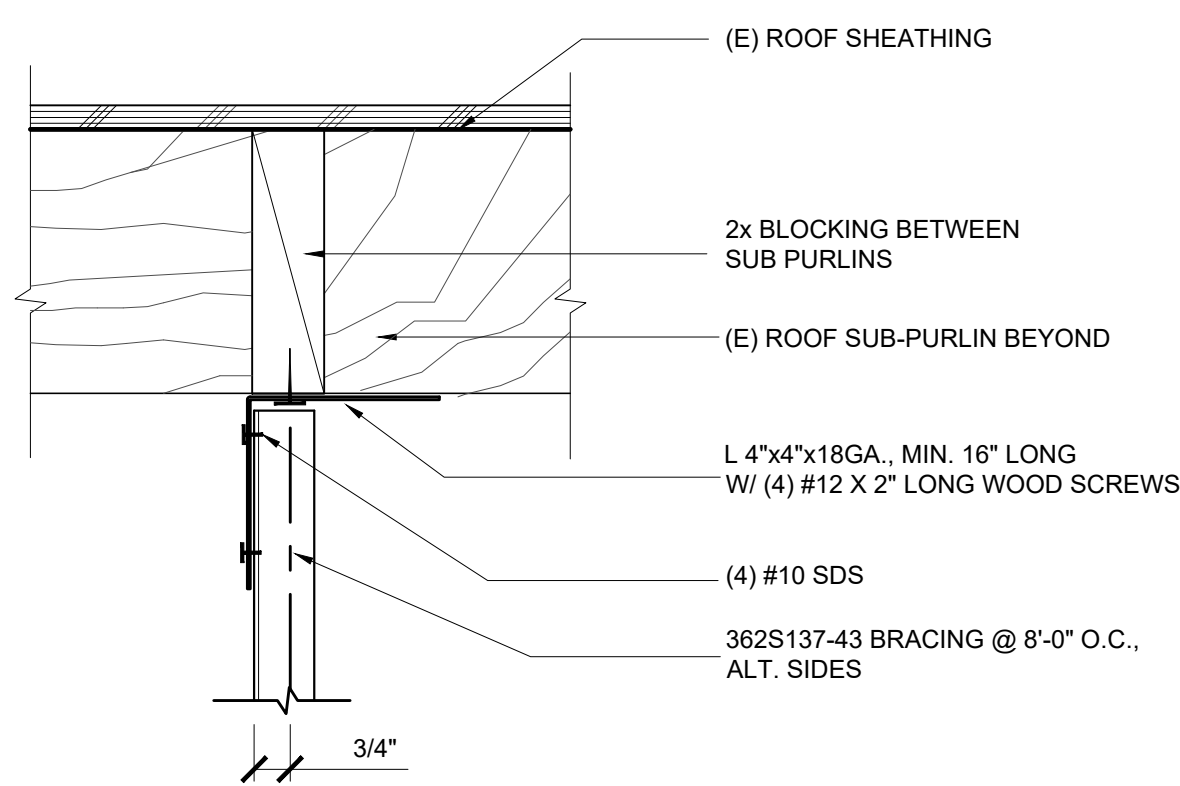
ANSUL UL1479 (ASTM E814)
F Ratings — 1 and 2 Hr (See Items 1 and 3)
T Rating — 0 Hr
L Rating at Ambient — Less Than 1 CFM/sq ft
L Rating at 400 F — Less Than 1 CFM/sq ft



- WALL ASSEMBLY — THE 1 OR 2 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
 - STUDS — WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC. STEEL STUDS TO BE MIN 2-1/2 IN. (64 MM) WIDE AND SPACED MAX 24 IN. (610 MM) OC. WHEN STEEL STUDS ARE USED AND THE Ø OF OPENING EXCEEDS THE WIDTH OF STUD CAVITY, THE OPENING SHALL BE FRAMED ON ALL SIDES USING LENGTHS OF STEEL STUD INSTALLED BETWEEN THE VERTICAL STUDS AND SCREW/ATTACHED TO THE STEEL STUDS AT EACH END. THE FRAMED OPENING IN THE WALL SHALL BE 4 TO 6 IN. (102 TO 152 MM) WIDER AND 4 TO 8 IN. (102 TO 152 MM) HIGHER THAN THE Ø OF THE PENETRATING ITEM SUCH THAT WHEN THE PENETRATING ITEM IS INSTALLED IN THE OPENING, A 2 TO 3 IN. (51 TO 76 MM) CLEARANCE IS PRESENT BETWEEN THE PENETRATING ITEM AND THE FRAMING ON ALL FOUR SIDES
 - GYPSUM BOARD* — 5/8 IN. (16 MM) THICK, 4 FT (122 CM) WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM BOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX Ø OF OPENING IS 32-1/4 IN. (819 MM) FOR STEEL STUD WALLS. MAX Ø OF OPENING IS 14-1/2 IN. (368 MM) FOR WOOD STUD WALLS.
- THE F AND FH RATINGS OF THE FIRESTOP SYSTEM ARE EQUAL TO THE FIRE RATING OF THE WALL ASSEMBLY. 2. THROUGH-PENETRANTS — ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BE MIN 0 IN. TO MAX 2-1/4 IN. (57 MM). PIPE MAY BE INSTALLED WITH CONTINUOUS POINT CONTACT. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
 - STEEL PIPE — NOM 3/8 IN. (76.2 MM) Ø (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
 - IRON PIPE — NOM 3/8 IN. (76.2 MM) Ø (OR SMALLER) CAST OR DUCTILE IRON PIPE.
 - CONDUIT — NOM 4 IN. (102 MM) Ø (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR 6 IN. (152 MM) Ø STEEL CONDUIT.
 - COPPER TUBING — NOM 6 IN. (152 MM) Ø (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
 - COPPER PIPE — NOM 6 IN. (152 MM) Ø (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
- FILL VOID OR CAVITY MATERIAL* — SEALANT — MIN 5/8 IN. (16 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS. FLUSH WITH BOTH SURFACES OF WALL. AT THE POINT OR CONTINUOUS CONTACT LOCATIONS BETWEEN PIPE AND WALL, A MIN 1/2 IN. (13 MM) Ø BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE PIPE/WALL INTERFACE ON BOTH SURFACES OF WALL. HILTI FS-ONE SEALANT OR FS-ONE MAX INTUMESCENT SEALANT OR EQ.*
*INDICATES SUCH PRODUCTS SHALL BEAR THE UL OR CUL CERTIFICATION MARK FOR JURISDICTIONS EMPLOYING THE UL OR CUL CERTIFICATION (SUCH AS CANADA), RESPECTIVELY.

15 1-2 HR FIRESTOP SYS. UL/ANSI W-L-1054

N.T.S.

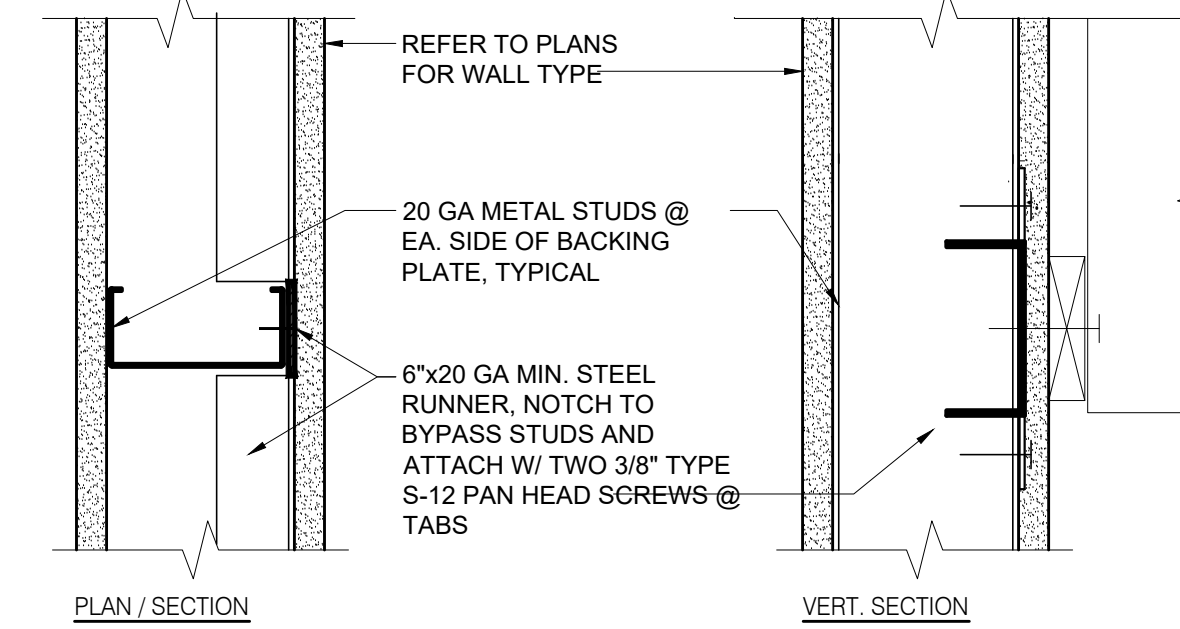


SECTION

NOTE
PROVIDE BRACING INDICATED @ SOFFITS, CEILING HEIGHT
PARTITIONS AND GLAZED PARTITIONS

9 WALL BRACE AT WOOD ROOF

3" = 1'-0"



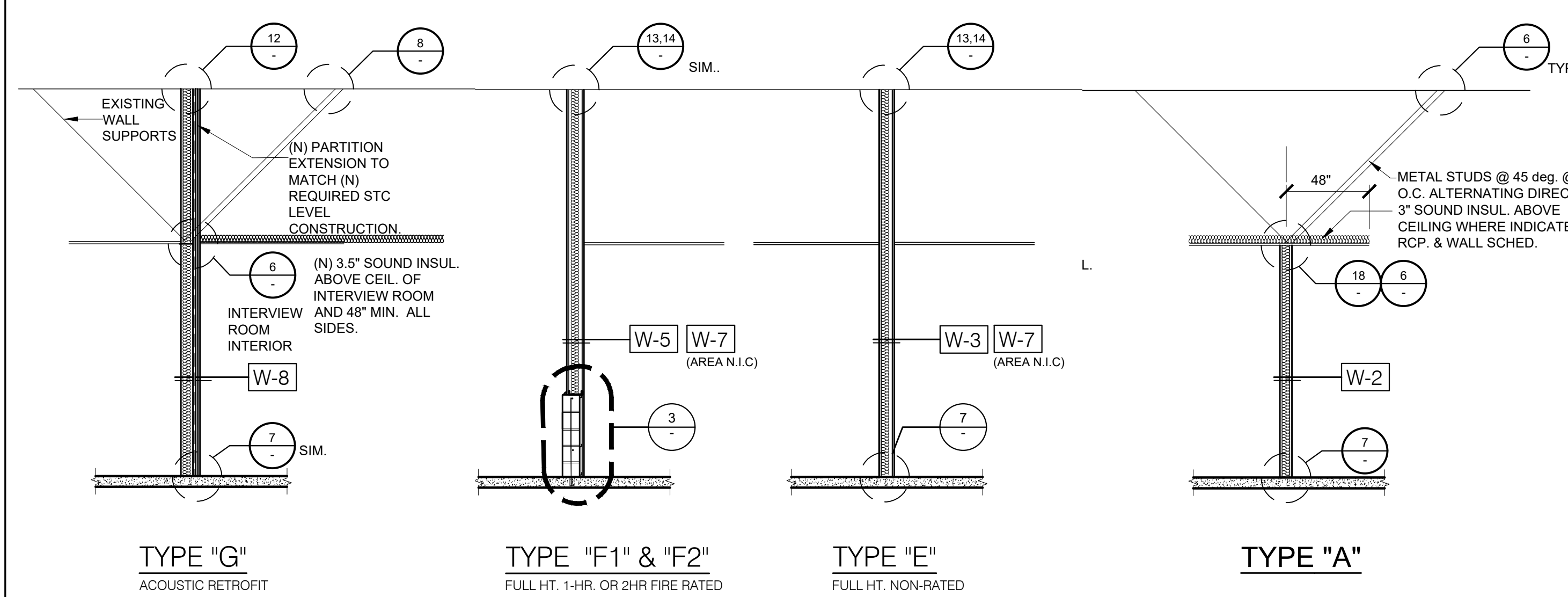
PLAN / SECTION

VERT. SECTION

PROVIDE BACKING AT ELECTRIC WATER COOLER, TOILET ACCESSORIES, SHELVING, UPPER CABINETS, BOTTLED GAS TANK RACKS, ETC., AS REQUIRED FOR PROPER ATTACHMENT AND AS REQUIRED BY THE C.B.C.

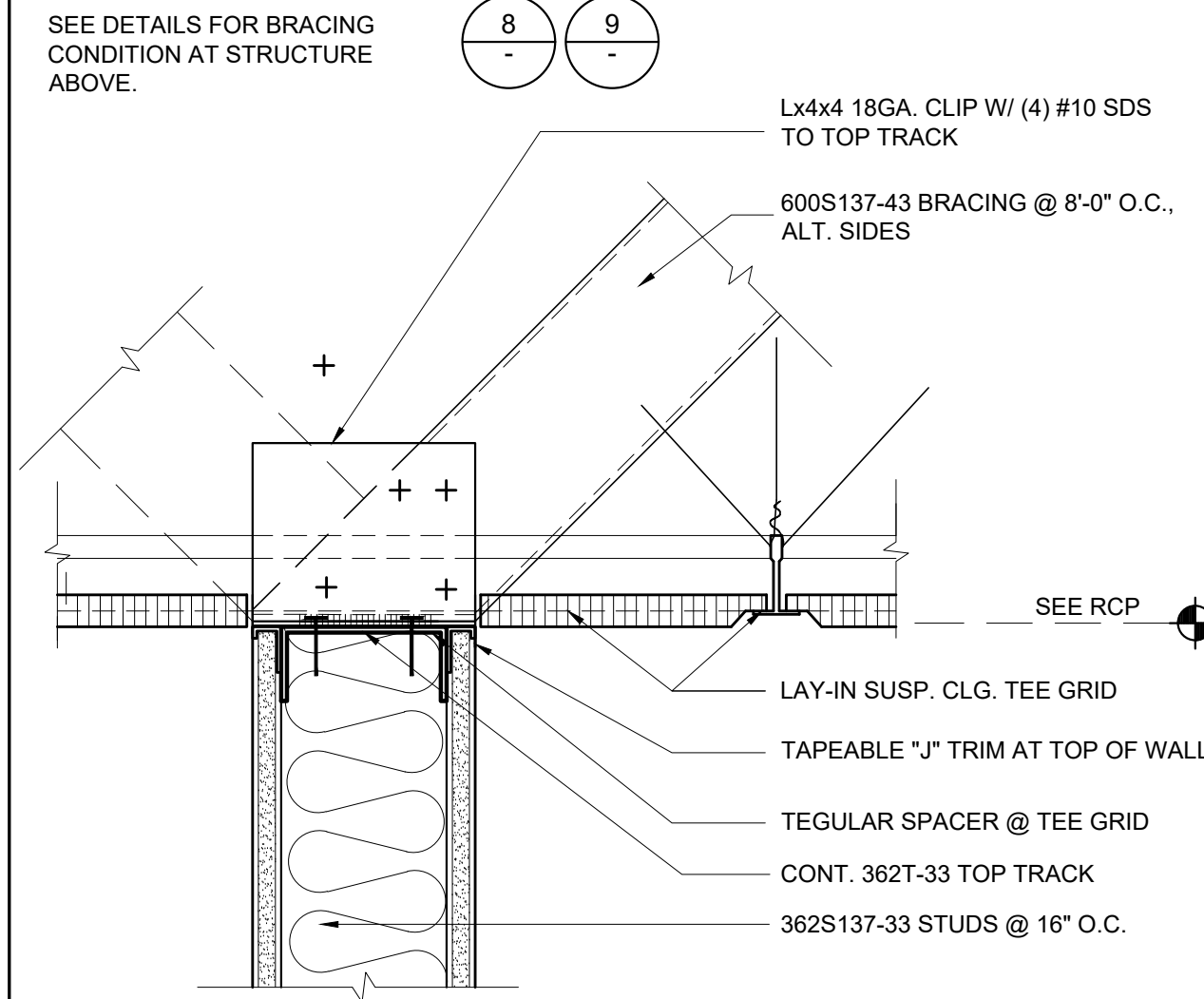
10 WALL BRACING

3" = 1'-0"



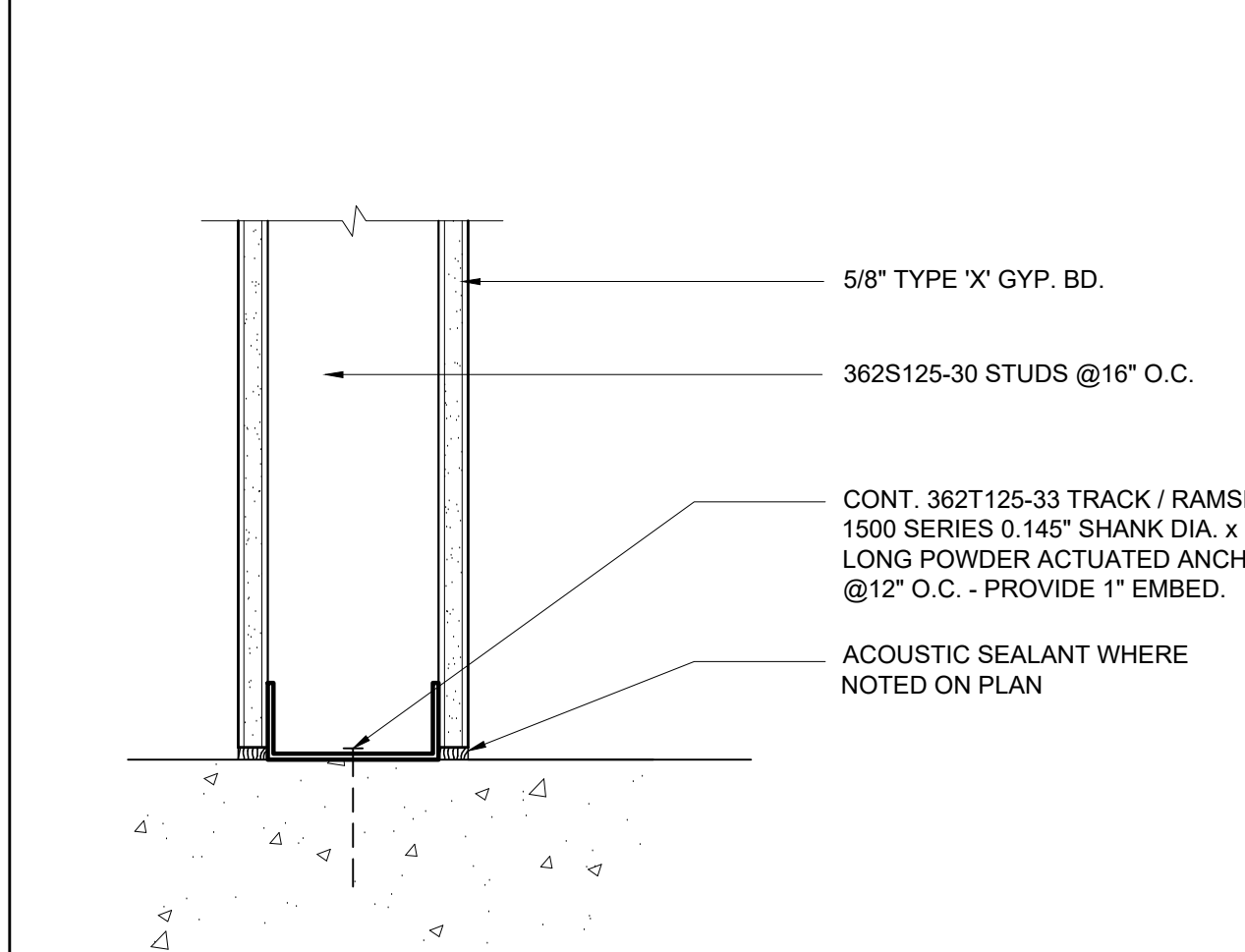
5 PARTITION TYPES

N.T.S.



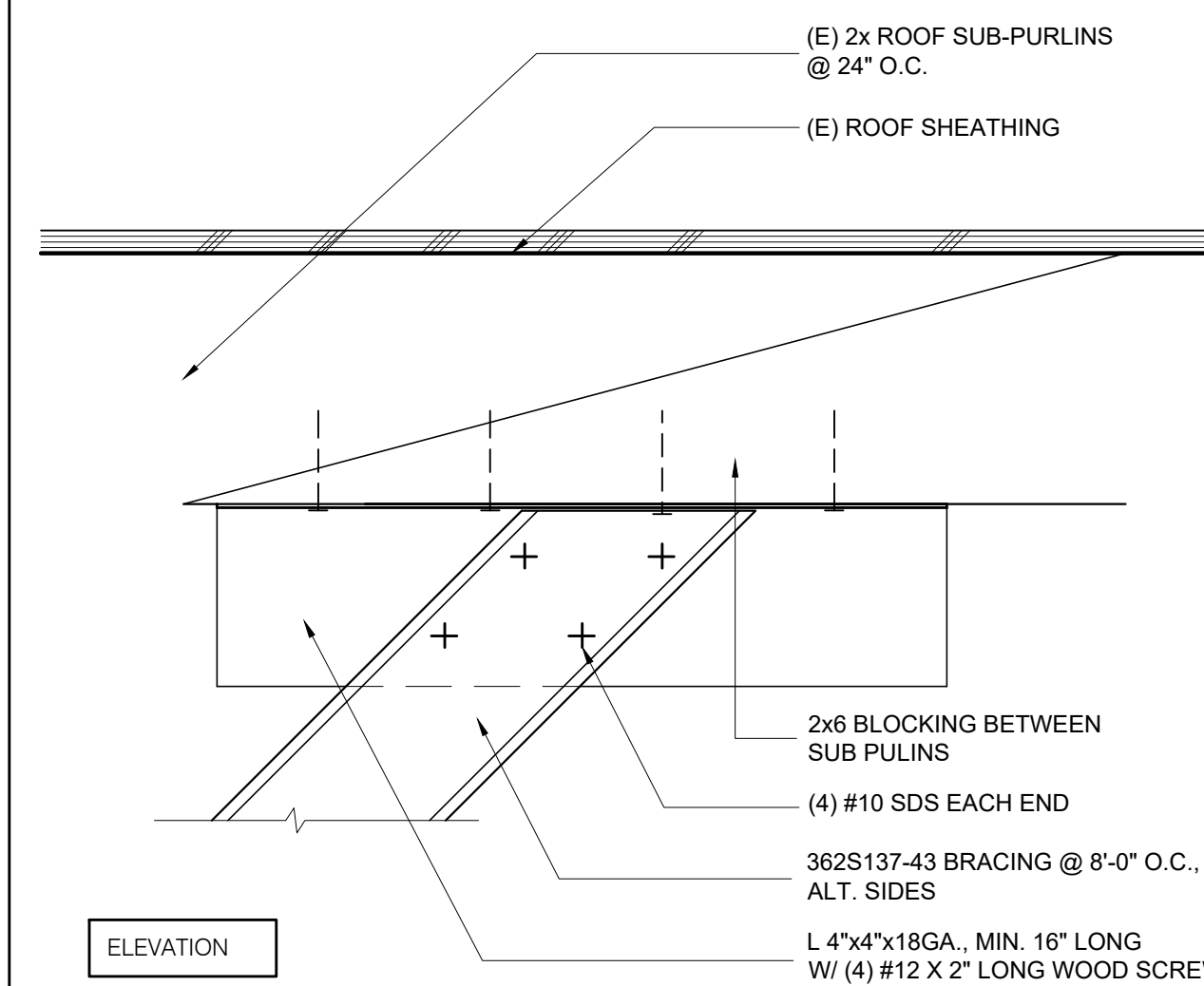
6 CEILING HT. WALL HEAD

3" = 1'-0"



7 WALL BOTTOM TRACK ATTACHMENT

3" = 1'-0"

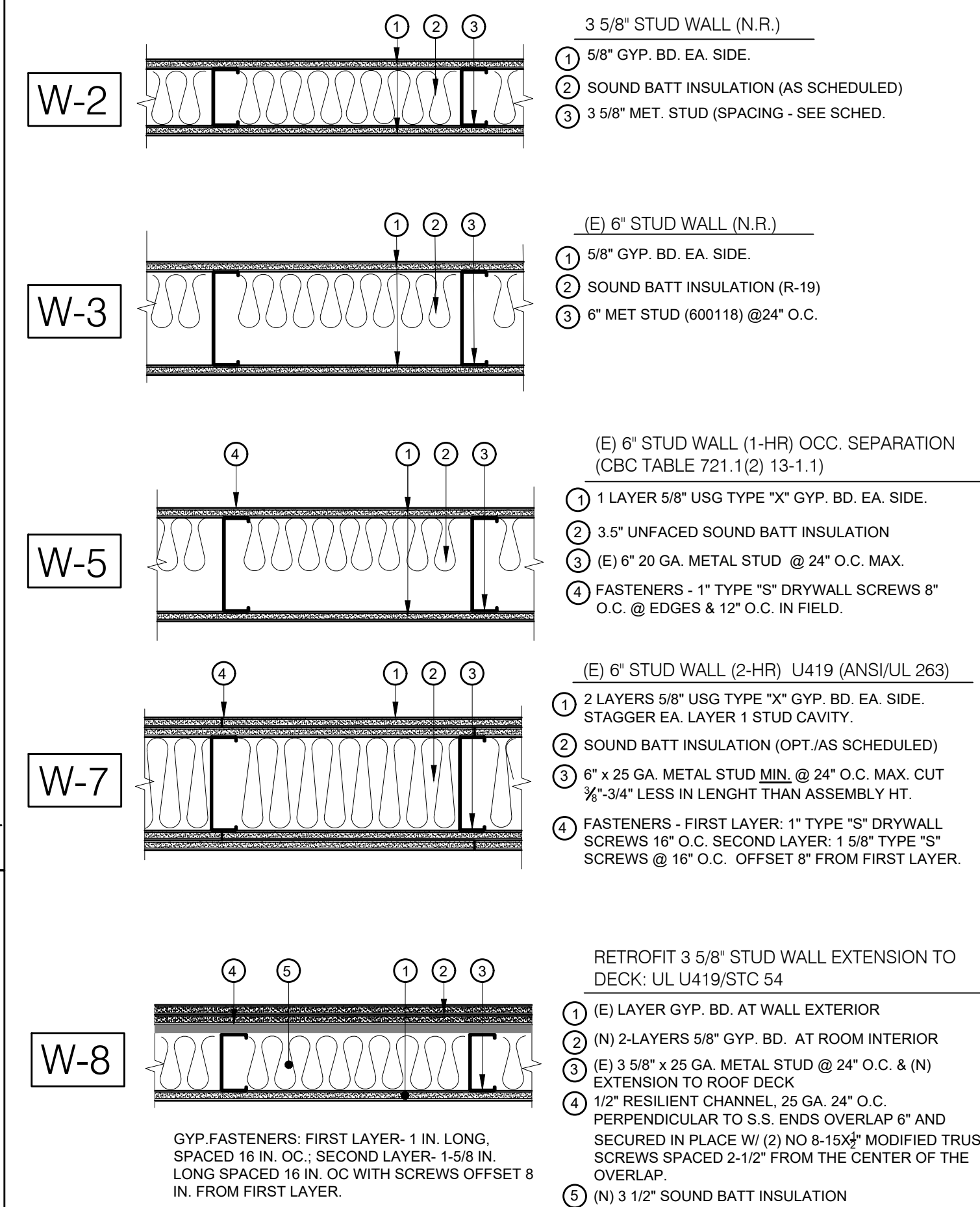


ELEVATION

8 WALL BRACE AT WOOD ROOF

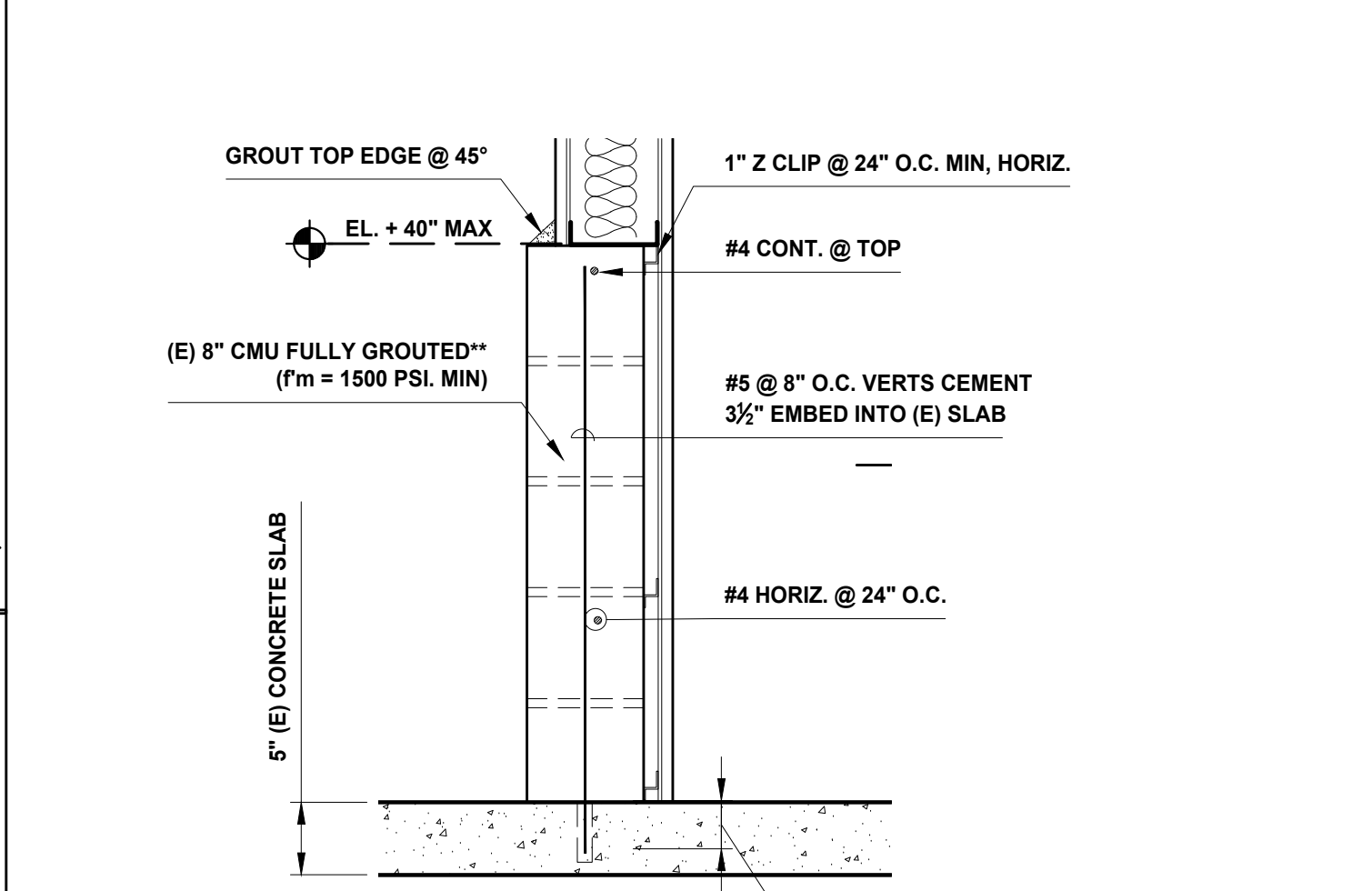
3" = 1'-0"

NOTE
PROVIDE BRACING INDICATED @ SOFFITS, CEILING HEIGHT
PARTITIONS AND GLAZED PARTITIONS



2 WALL CONSTRUCTION TYPES

N.T.S.



** AREA OF NEW OPENING CMU HAS VOID CAVITIES AS PREPARED BY PREVIOUS CONTRACTOR FOR FUTURE DOOR, PER BUILDING OWNER.

4-HR. FIRE RESISTANCE RATING PER (CBC TABLE 721.1(2) 3-1.1)

3 (E) CMU @ FULL HT. WALL (AS-BLT. REF.)

1" = 1'-0"



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10/06/2023 SUBMIT FOR PLAN CHECK

DRAWING TITLE:

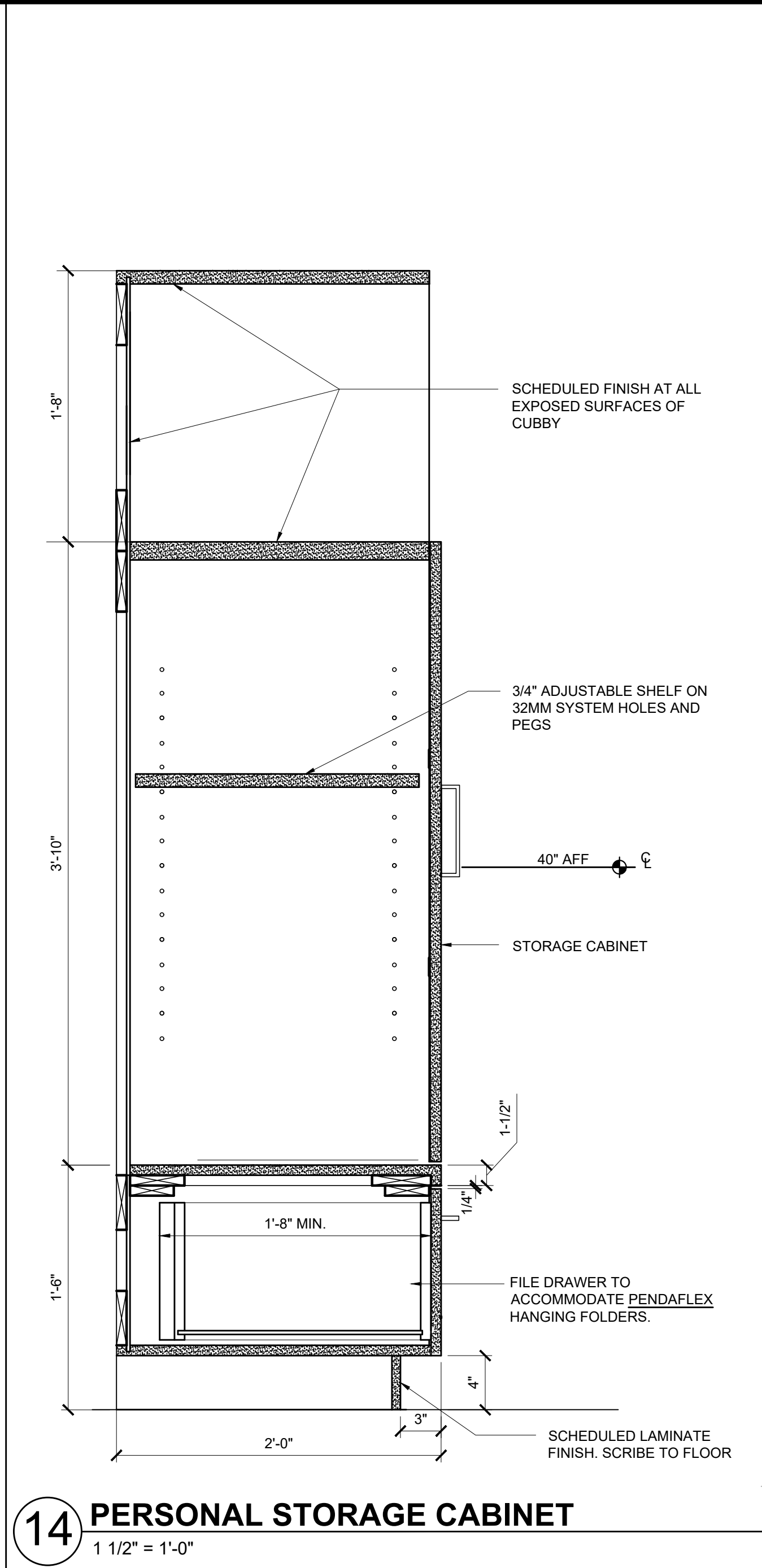
PARTITION &
CONSTRUCTION DETAILS

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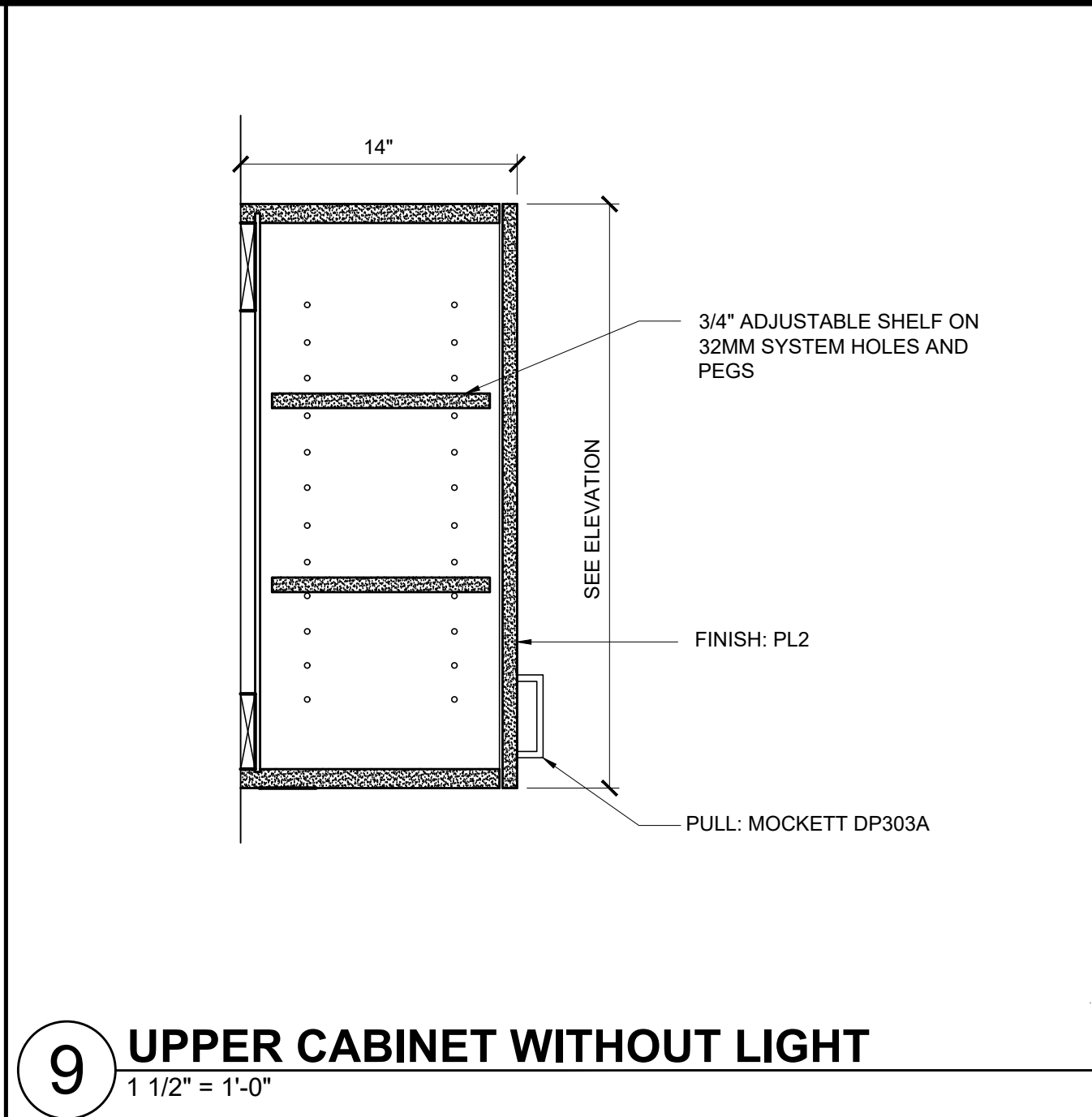
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SCALE: AS NOTED

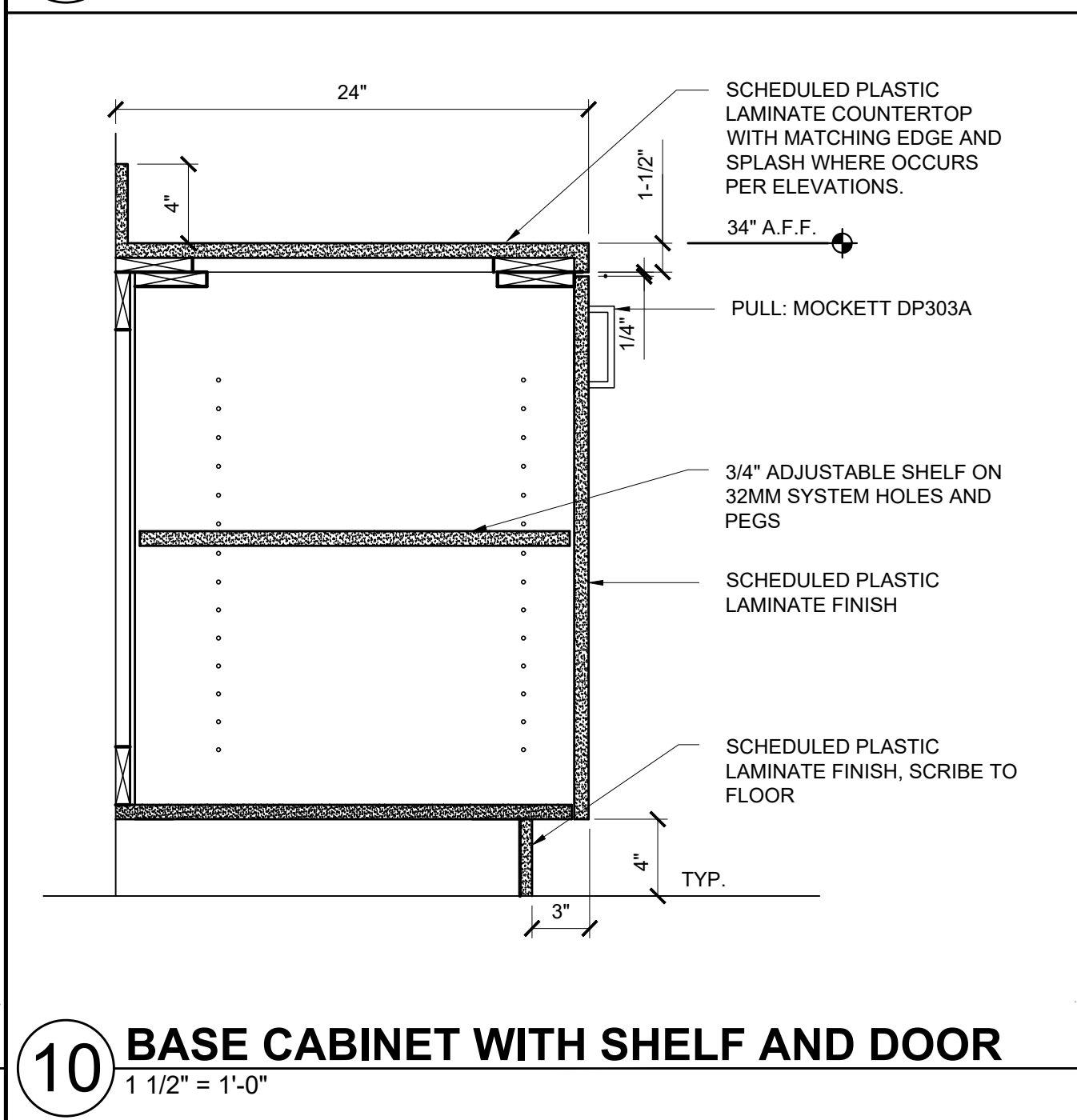
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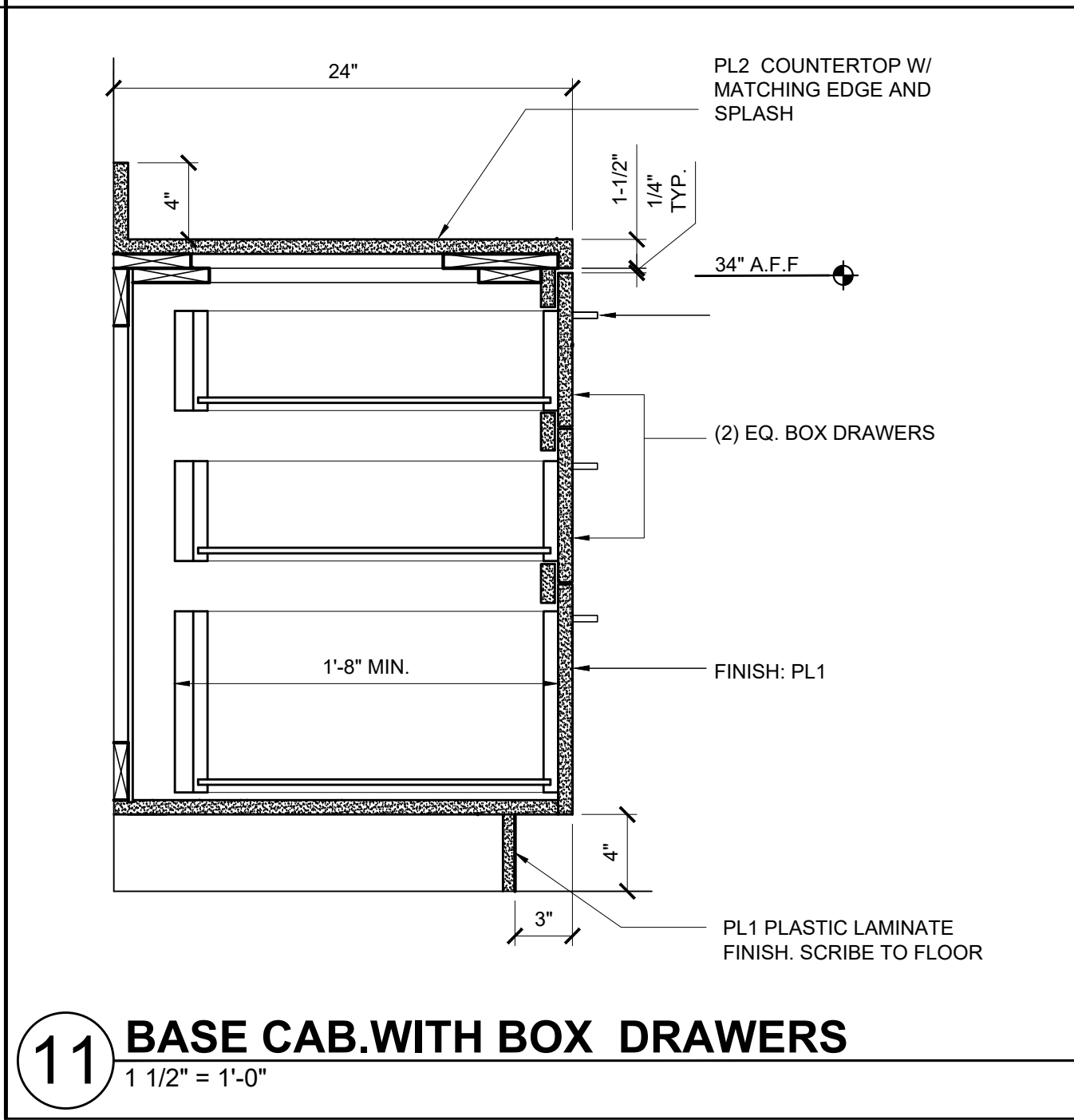
14 PERSONAL STORAGE CABINET
1 1/2" = 1'-0"



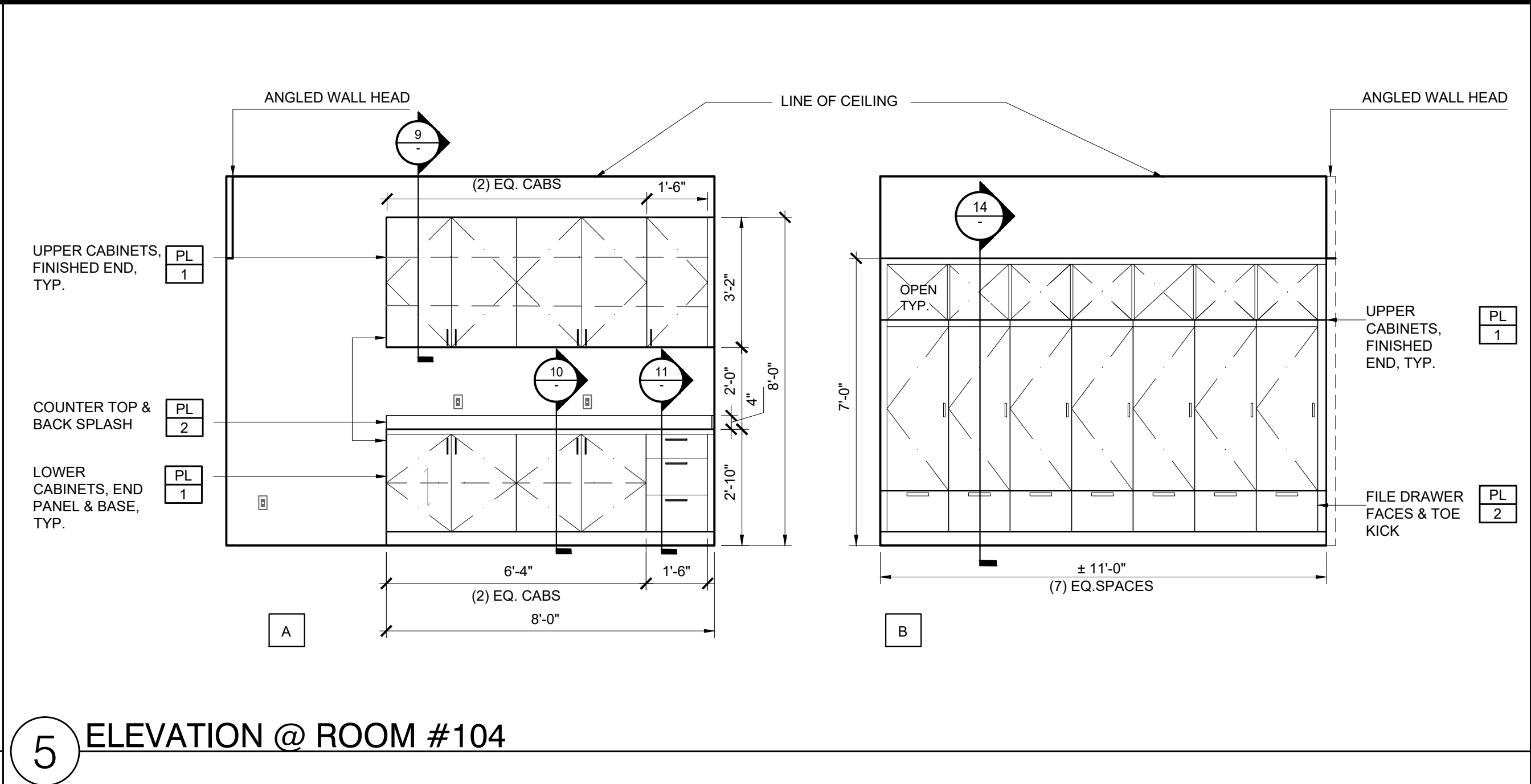
9 UPPER CABINET WITHOUT LIGHT
1 1/2" = 1'-0"



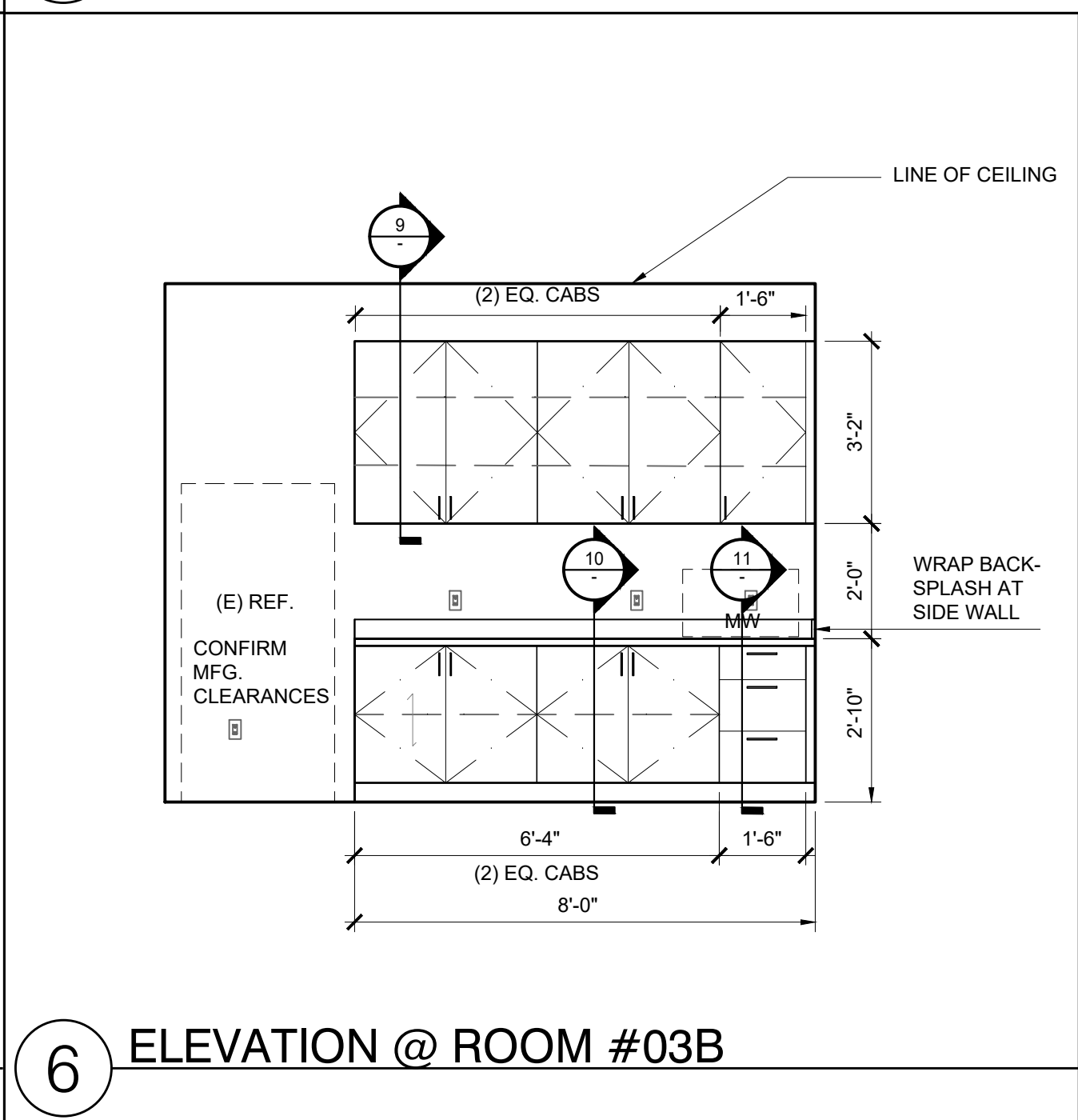
10 BASE CABINET WITH SHELF AND DOOR
1 1/2" = 1'-0"



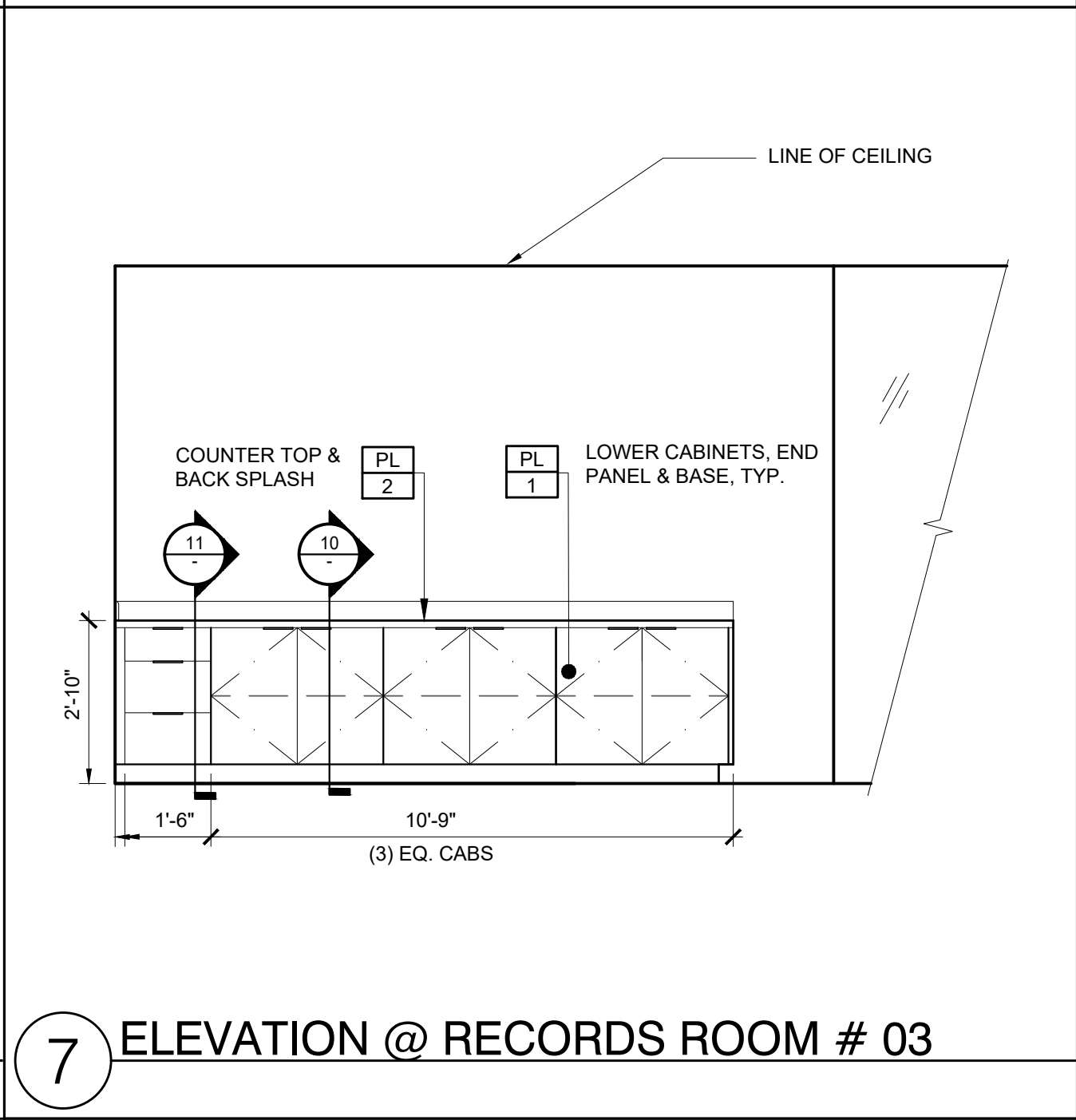
11 BASE CAB. WITH BOX DRAWERS
1 1/2" = 1'-0"



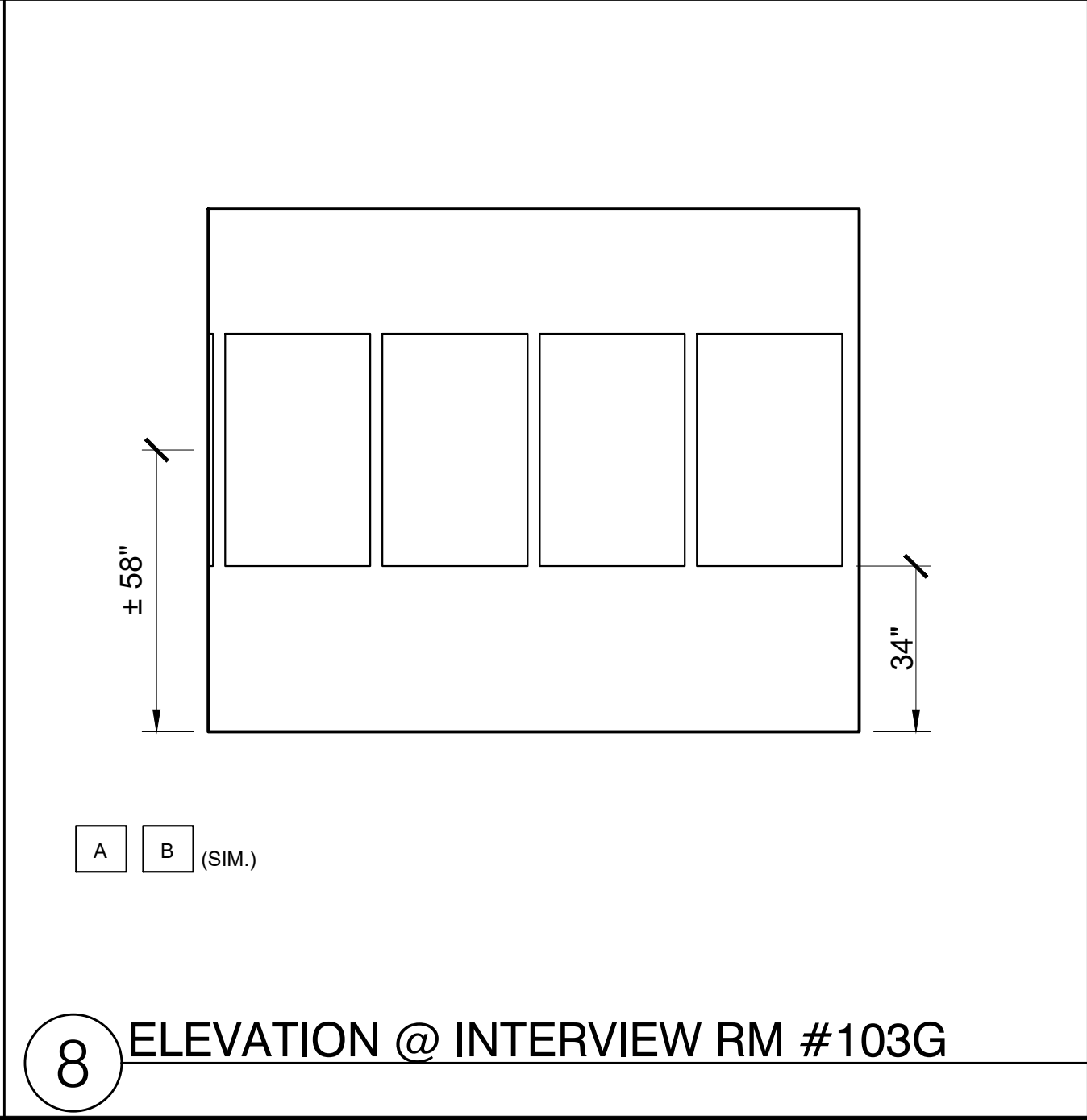
5 ELEVATION @ ROOM #104



6 ELEVATION @ ROOM #03B



7 ELEVATION @ RECORDS ROOM # 03



8 ELEVATION @ INTERVIEW RM #103G

MILLWORK / APPLIANCE NOTES

- ALL APPLIANCES ARE EXISTING.
- ALL WORK, MATERIALS, ETC. SHALL CONFORM TO W.I. STANDARDS FOR CUSTOM GRADE. WORK & MATERIALS INDICATED ON DWGS. THAT EXCEED CUSTOM GRADE SHALL GOVERN.
- CABINETS SHALL BE 3/4" FLUSH OVERLAY CONSTRUCTION.
- ALL EXPOSED AND SEMI-EXPOSED SURFACES SHALL BE PLASTIC LAMINATE. SEE DRAWINGS FOR ADDITIONAL SURFACES TO BE PLASTIC LAMINATE.
- EDGE BANDING SHALL MATCH CABINET FACE. T-MOLD EDGE-BANDING WILL NOT BE ACCEPTED. SUBMIT ALL MATERIALS FOR APPROVAL PRIOR TO PURCHASE OF MATERIALS AND FABRICATION OF MILLWORK. IF MATCHING EDGE-BANDING IS NOT AVAILABLE, PROVIDE PLASTIC LAMINATE EDGE-BANDING TO MATCH CABINET FACE. EDGE-BANDING SHALL BE APPLIED AFTER FACES TO MINIMIZE DARK EDGES AT LAMINATE JOINTS.
- HINGES SHALL BE EUROPEAN STYLE, OPEN TO 120 DEGREES. PROVIDE RESTRICTION CLIPS WHERE DOORS OR PULLS ARE ADJACENT TO PERPENDICULAR SURFACES.
- INTERIOR SHELVES SHALL BE 3/4" ADJUSTABLE ON 32MM SYSTEM HOLES AND PEGS.
- CABINETS & PLASTIC LAMINATE COUNTER TOPS SHALL BE ANCHORED AND SCRIBED TO ADJACENT SURFACES. SCRIBE STRIPS SHALL BE NO LONGER THAN 1-1/2".
- ON-SITE MEASUREMENTS ARE THE RESPONSIBILITY OF THE SUBCONTRACTOR.
- THE SUBCONTRACTOR SHALL VERIFY ALL APPLIANCE DIMENSIONS AND SHALL NOTIFY ARTFUL ENVIRONMENT OF ANY DISCREPANCIES. APPLIANCE DIMENSIONS & REQ'D. CLEARANCES SHALL BE INDICATED ON THE SHOP DRAWINGS.
- SUBCONTRACTOR SHALL PROVIDE A MINIMUM OF (3) SAMPLES OF EACH FINISH INDICATED ON THE DRAWINGS TO ARTFUL ENVIRONMENT FOR APPROVAL. ONE SAMPLE SHALL BE RETAINED BY ARTFUL ENVIRONMENT FOR RECORD.
- SUBMITTED SHOP DRAWINGS SHALL INCLUDE GRAIN AND PATTERN DIRECTIONS.
- DRAWINGS ARE FOR DESIGN PURPOSES ONLY. SHOP DRAWINGS SHALL BE SUBMITTED TO ARTFUL ENVIRONMENT FOR APPROVAL PRIOR TO CONSTRUCTION.
- BY APPROVING AND SUBMITTING SHOP DRAWINGS AND SAMPLES, THE CONTRACTOR REPRESENTS THAT THEY HAVE DETERMINED & VERIFIED FIELD MEASUREMENTS, FIELD CONSTRUCTION CRITERIA, MATERIALS, CATALOG NUMBERS, & SIMILAR DATA AND THAT EACH SUBMITTAL HAS BEEN CHECKED AND COORDINATED WITH CONTRACT REQUIREMENTS. REVIEW OF SHOP DRAWINGS BY ARTFUL ENVIRONMENT SHALL BE FOR DESIGN CONCEPT ONLY. THE CONTRACTOR IS RESPONSIBLE FOR THE ACCURACY OF SHOP DRAWINGS, PROPER FITTINGS, COORDINATION OF WORK, CONSTRUCTION TECHNIQUES, MATERIALS, AND WORK REQUIRED BY CONTRACT DOCUMENTS.
- ALL CONCEALED SURFACES SHALL BE MELAMINE, DECOLAM OR APPROVED EQUAL LOW-PRESSURE LAMINATE, U.O.N. ON DRAWINGS. COLOR: WHITE.
- CABINET HARDWARE: MCKETT "DIP" DRAWER PULLS, W/ SATIN NICKEL FINISH. INSTALL PULLS AS SHOWN ON ELEVATIONS. DETAILS MAY VARY.
 - DRAWERS & LOCKER DOOR: #DP303C, 6.69" OA LENGTH (DP303C-17S)
 - DOORS: #DP303A-17S 3.125" OA LENGTH
- DRAWER BOXES SHALL FILL 95% OF CAVITY & EXTEND TO NO LESS THAN 2" FROM BACK OF CABINET. DRAWER SLIDES SHALL BE ACCURIDE MODEL #3132SC, OR EQUAL BALL BEARING TYPE. DRAWER SLIDES MUST BE RATED FOR 100 LB. LOAD & FULL EXTENSION.
- FILE DRAWER SLIDES SHALL BE ACCURIDE MODEL #3832SC, FULL EXTENSION AND RATED FOR 100 LBS. FILE DRAWERS SHALL ACCOMMODATE PENDEFLEX HANGING FOLDERS AND FULL DESIGN WEIGHT CAPACITY WITH ACCURIDE SUSPENSION.
- PROVIDE SOFT CLOSE HINGES AND SLIDES ON ALL MILLWORK DRAWERS AND DOORS

MILLWORK FINISH SCHEDULE

PL 1	PLASTIC LAMINATE MANUFACTURER: WILSONART 5015-38 NORDIC LINEN FINISH: FINE VELVET TYP: VERTICAL FACES OF CABINETS
PL 2	PLASTIC LAMINATE MANUFACTURER: WILSONART D379-60 INDIGO FINISH: MATTE TYP: COUNTERS AND BACK SPLASHES, "LOCKER" DRAWER FACES.

MORGAN HILL POLICE DEPARTMENT EXPANSION

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10/06/2023 SUBMIT FOR PLAN CHECK

DRAWING TITLE:

INTERIOR AND MILLWORK
ELEVATIONS & DETAILS

DRAWING NO.:

A4.1

SCALE:

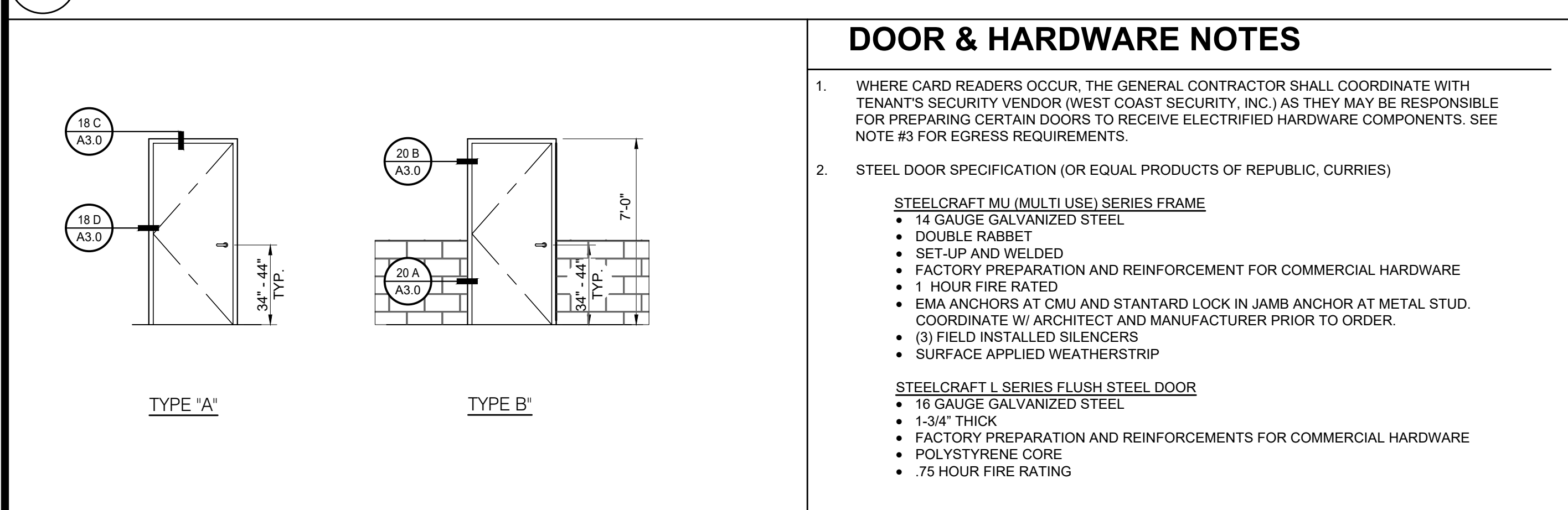
AS NOTED

DOOR NO.	ROOM NO.	ROOM NAME	FIRE RATING	SIZE (W X H X THK)	DOOR TYPE	DOOR MAT'L.	FRAME	HDWR. GROUP	REMARKS
103-1	103	OPEN OFFICE	NONE	3'-0"x7'-0"x1-3/4"	A	SOLID CORE	CLR. ANOD. AL	(E)	REUSE EXISTING DOOR & HARDWARE; CLEAN AND PREP DOOR FOR A NEW FINISHED LOOK.
103-2	103-F	VESTIBULE	60 MIN	3'-6"x7'-0"x1-3/4"	B	STEEL	H.M.	B5	SEE DOOR NOTES #2 AND DETAIL 20/A3.0 FOR SPECIFIC INSTRUCTIONS
108-1	108	OPEN OFFICE	NONE	3'-0"x7'-0"x1-3/4"	A	SOLID CORE	CLR. ANOD. AL	A2	MATCH EXISTING BUILDING STANDARD FLUSH FINISH BIRCH VENEER

17

DOOR SCHEDULE

N.T.S.



3

DOOR TYPES

1/4" = 1'-0"

GROUP A2: INTERIOR STANDARD DOOR, OFFICE LOCKSET: "RHODES"
OPERATING HARDWARE SCHLAGE NDS3PD - ENTRANCE LOCK
HINGE MCKINNEY TA2714 FULL MORTISE, BALL BEARING
STOP IVES FS436/438, WITH R435/437 RISER @ CARPET

GROUP B5: INTERIOR STANDARD DOOR W/ CLOSER, ELECTRIFIED LOCKSET (FAIL SAFE):
OPERATING HARDWARE SCHLAGE NDS80PDEL - ELECTRICALLY LOCKED
HINGE MCKINNEY TA2714 FULL MORTISE, BALL BEARING
POWER TRANSFER HINGE MCKINNEY TB2714CC FULL MORTISE, BALL BEARING, CONCEALED CIRCUIT

STOP IVES FS436/438, WITH R435/437 RISER @ CARPET
CLOSER DORMA TS93
CARD READER BY SECURITY

4

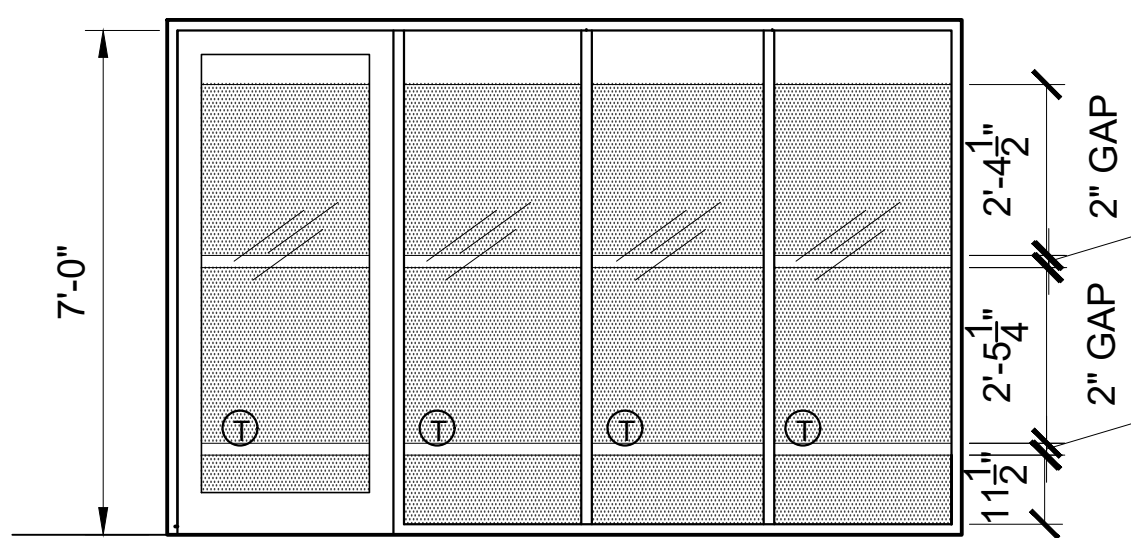
HARDWARE GROUPS

N.T.S.

DOOR & HARDWARE NOTES

- WHERE CARD READERS OCCUR, THE GENERAL CONTRACTOR SHALL COORDINATE WITH TENANT'S SECURITY VENDOR (WEST COAST SECURITY, INC.) AS THEY MAY BE RESPONSIBLE FOR PREPARING CERTAIN DOORS TO RECEIVE ELECTRIFIED HARDWARE COMPONENTS. SEE NOTE #3 FOR EGRESS REQUIREMENTS.
- STEEL DOOR SPECIFICATION (OR EQUAL PRODUCTS OF REPUBLIC, CURRIES)
 - STEELCRAFT MU (MULTI USE) SERIES FRAME
 - 14 GAUGE GALVANIZED STEEL
 - DOUBLE RABBIT
 - SET-UP AND WELDED
 - FACTORY PREPARATION AND REINFORCEMENT FOR COMMERCIAL HARDWARE
 - 1 HOUR FIRE RATED
 - EMA ANCHORS AT CMU AND STANDART LOCK IN JAMB ANCHOR AT METAL STUD. COORDINATE W/ ARCHITECT AND MANUFACTURER PRIOR TO ORDER.
 - (3) FIELD INSTALLED SILENCERS
 - SURFACE APPLIED WEATHERSTRIP
- STEELCRAFT L SERIES FLUSH STEEL DOOR
 - 16 GAUGE GALVANIZED STEEL
 - 1-3/4" THICK
 - FACTORY PREPARATION AND REINFORCEMENTS FOR COMMERCIAL HARDWARE
 - POLYSTYRENE CORE
 - .75 HOUR FIRE RATING
- ARTFUL ENVIRONMENT SHALL NOT BE RESPONSIBLE FOR DOOR HARDWARE CODE COMPLIANCE OUTSIDE THE AREA OF WORK.
- DOOR OPERATIONS: EXCEPT AS SPECIFICALLY PERMITTED BY THIS SECTION EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OR A KEY OR SPECIAL KNOWLEDGE OR EFFORT PER 2022 CBC SEC. 1010.1.9
- ALL DOORS, FRAMES AND HARDWARE SHALL BE FIRE-RATED ASSEMBLIES WITH APPROVED LABELS WHERE SPECIFIED ON PLANS AND/OR DOOR SCHEDULE. ALL 20-MINUTE, OR GREATER, FIRE-RATED ASSEMBLIES SHALL HAVE AN "S" LABEL PER 2022 CBC SEC. 716.2.2.1.1 & 716.2.3.1.1
- IN FIRE RATED ASSEMBLIES ASSURE THAT ROUGH OPENINGS BETWEEN WALLS IS PLUMB, SQUARE AND PROPERLY SIZED TO FIT OVERALL FRAME DIMENSIONS AND EXPANSION CAPABILITY OF INTUMESCENT CAULK OR SEALANT. SEE ALSO 20/A3.0.
- DOORS SHALL BE PRE-FINISHED SOLID CORE WOOD FLUSH DOORS UNLESS NOTED OTHERWISE. FINISH AND VENEER SHALL BE AS REQUIRED PER DOOR SCHEDULE, AND AS NOTED BELOW.
- CONTRACTOR SHALL COORDINATE THE FITTING OF ALL DOORS PER THE SPECIFICATIONS ONCE THE FINISH FLOORING HAS BEEN INSTALLED.
- UNDERCUT DOORS SO THAT THE BOTTOM OF THE DOOR IS 1/4" - 3/8" A.F.F.
- COORDINATE DOOR FRAME THROAT DIMENSION WITH PARTITION WIDTH, INCLUDING THE DEPTH OF ANY APPLIED FINISHES AND EXTRA LAYERS OF GYP. BOARD. FIELD MEASURE OPENINGS TO ASSURE PROPER FIT.
- INSTALL DOORS COMPLETE WITH HARDWARE, FITTINGS, & ACCESSORIES, WHETHER SPECIFIED OR NOT, THAT ARE REQUIRED FOR THE PROPER OPERATION OF THE SPECIFIC OPENINGS, TO MAINTAIN THE SPECIFIED FIRE RATED ASSEMBLY & TO MEET CURRENT ACCESSIBILITY REQUIREMENTS.
- COORDINATE ALL LOCKING, LATCHING, AND KEYING REQUIREMENTS FOR THE BUILDING USE & SECURITY WITH THE TENANT REPRESENTATIVE PRIOR TO ORDERING AND INSTALLING HARDWARE.
- INSTALL HARDWARE ACCORDING TO MANUFACTURER'S STANDARDS AND REQUIREMENTS.
- HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 34" AND 44" ABOVE THE FLOOR PER 2022 CBC SEC. 1010.1.9.2.
- MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 15 LBS. FOR FIRE DOORS, 5 LBS. FOR EXTERIOR DOORS AND 5 LBS. FOR INTERIOR DOORS, SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS PER 2022 CBC SEC. 1010.1.3.
- TEST AND ADJUST DOORS FOR SMOOTH, QUIET OPERATION.
- TOUCH-UP AND REPAIR ALL IMPERFECTIONS IN METAL FRAMES.

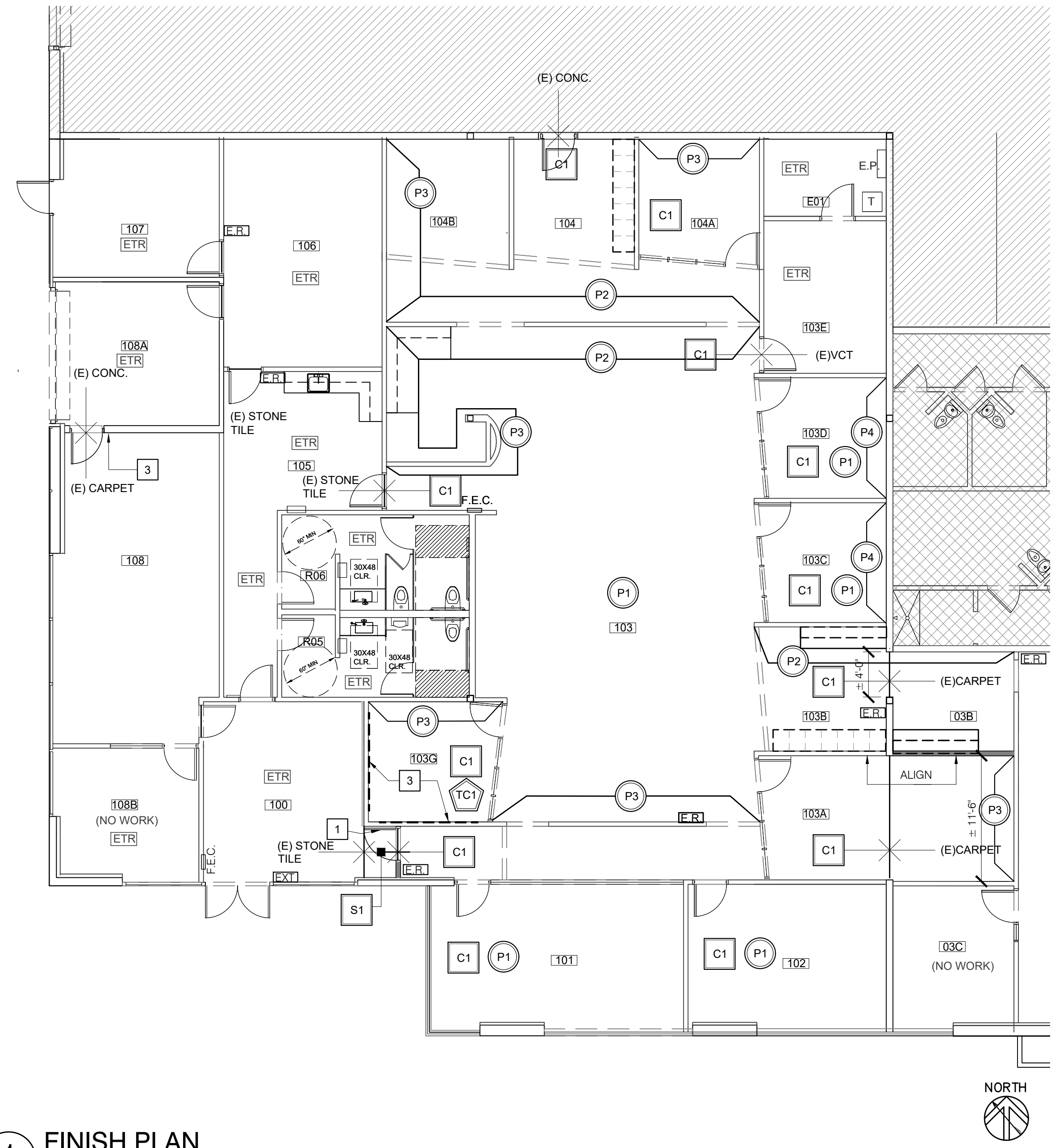
DOOR, FRAME, AND HARDWARE FINISHES SHALL MATCH EXISTING AS FOLLOWS:
INTERIOR DOORS: FLUSH BIRCH VENEER
FRAMES: CLEAR ANODIZED ALUMINUM
HARDWARE: SCHLAGE RHODES



2

WINDOW FILM ELEVATION, TYP.

SCALE: 3/8" = 1'-0"



1

FINISH PLAN

FINISH SCHEDULE

RM NO.	RM. NAME	WALL FINISH				FLOOR	CEILING HT	CEILING	NOTES:
		N	W	S	E				
038	CIRC./STORAGE	P2	P1	P1	P1	<E>	9'	<E>	
100	ENTRY/WAITING	P1	P1	P1	P1	<E>	<E>/S1*	9'	
101	CONFERENCE	P1	P1	P1	P1	C1	9'	<E>	
102	OFFICE	P1	P1	P1	P1	C1	9'	<E>	
103	OPEN OFFICE	P2	P1/P3	P3	P1	C1	9'-8"	<E>	
103A	WORK AREA	P1	P1	P1	P3	C1	9'	<E>	
103B	CIRC./STORAGE	P2	P1	P1	P1/P2	C1	9'	<E>	HEADER OF FORMER WINDOW WALL P1
103C	OFFICE	P1	P1	P1	P3	C1	9'	<E>	
103D	OFFICE	P1	P1	P1	P3	C1	9'	<E>	
103E	SERVER	<E>	<E>	<E>	<E>	<E>	9'	<E>	
103F	INTERVIEW	P3	P1	P1	P1	C1	9'	TC1	
104	VESTIBULE/STORAGE	P1	P1	P2	P1	C1	9'	<E>	HEADER OF FORMER WINDOW WALL P1
104A	OFFICE	P3	P1	P2	P1	C1	9'	<E>	
104B	OFFICE	P1	P3	P2	P1	C1	9'	<E>	HEADER OF FORMER WINDOW WALL P1
105	BREAK	<E>	<E>	<E>	<E>	<E>	9'	<E>	
106	CONF	<E>	<E>	<E>	<E>	<E>	9'	<E>	
107	ENTR/ OFFICE	<E>	<E>	<E>	<E>	<E>	9'	<E>	
108	OPEN OFFICE	P1	<E>	<E>	<E>	<E>	9'	<E>	
108A	STORAGE	<E>	<E>	<E>	<E>	<E>	9'	<E>	
108B	OFFICE	<E>	<E>	<E>	<E>	<E>	9'	<E>	
R05	MENS	<E>	<E>	<E>	<E>	<E>	8'	<E>	

FINISH LEGEND

- C1

FLOOR FINISHES:
GENERAL CARPET TILE
MANUFACTURER: MANNINGTON COMMERCIAL
STYLE NAME: CIRCUIT 34411
COLOR: PLASMA EFFECT
SIZE: 24" X 24"
INSTALLATION TYPE: MONOLITHIC
BASE: BLACK MATCH EXISTING BLDG. STANDARD
LOCATION: THROUGHOUT, U.O.N.
REP: Keith Greenaway 510-435-6850
- S1

SLATE TILE
MANUFACTURER, STYLE NAME
COLOR: TO MATCH EXISTING
SIZE:
INSTALLATION METHOD: AHSLAR
SEALER: HMKS34 SILICONE IMPREGNATOR, MATCH EXISTING
FINISH: PROVIDE (3) COATS
APPLY PER MANUFACTURER'S RECOMMENDATIONS
GROUT: MATCH EXISTING
BASE: T.B.D.
LEAD TIME:
REP:
- TC1

CEILING:
HIGH NRC CEILING TILE
MANUFACTURER: ARMSTRONG
ARMSTRONG 1754 HIGH NRC
SIZE: 24X48
EDGE: VIF (SQUARE LAY IN)
COLOR: WHITE
LOCATION: RM# 103G INTERVIEW
- P1

WALL FINISHES:
GENERAL PAINT
MANUFACTURER:
COLOR: BLDG. STANDARD
LOCATION: THROUGHOUT, U.O.N.
- P2

ACCENT PAINT
MANUFACTURER: KELLY-MOORE
COLOR: KM5872 "ELECTRIC SLIDE"
LOCATION: AS NOTED ON PLANS
- P3

ACCENT PAINT
MANUFACTURER: KELLY-MOORE
COLOR: KM5810 "LONDON SQUARE"
LOCATION: AS NOTED ON PLANS
- ETR

ACCENT PAINT
MANUFACTURER: KELLY-MOORE
COLOR: KM5814 "KING CREEK FALLS"
LOCATION: PRIVATE OFFICES AS NOTED ON PLANS
- ETR

EXISTING TO REMAIN (NO FINISH WORK)

KEY NOTES

- RE-USE EXISTING HARDWARE. SECURITY CONTRACTOR SHALL PROVIDE UPGRADED HARDWARE FOR CARDREADER. PROVIDE NEW DOOR STOP IF NEEDED.
- SUITE 150 FINISHES ARE EXISTING AND SHALL REMAIN. ROOM 108 SHALL BE LIMITED TO PATCH AND REPAIR WORK ON THE WALL OF THE NEW DOOR ONLY. PROVIDE TRANSITION BETWEEN EXISTING CARPET AND EXISTING CONCRETE FLOOR IN STORAGE AREA.
- PROVIDE AND INSTALL (8) 30" W X 48" H X 1" THK. "ECO-CORE" FABRIC WRAPPED ACOUSTIC PANELS NOTED AS "FWP" ON FINISH SCHEDULE. SEE DETAIL 8/A4.2
CONTACT: WEST GENERAL ACOUSTICS: SHARON SULLIVAN (408)255-8644.
FABRIC BASIX60 B60539 COLOR "BLEU PAPIER"

SHEET NOTES

- CARPET MATERIAL ESTIMATE: INCLUDE STOCK ON HAND: 34 BOXES AT 6.22 S.Y. EA. COORDINATE AMOUNT OF STOCK TO REMAIN ON HAND FOR PATCH AND REPAIR WITH BILL NORMAN.
- STONE FLOORING SHALL BE TREATED WITH SLIP TECH SEALER. SUBMIT TREATED SAMPLES TO ARTFUL ENVIRONMENT FOR APPROVAL.
- FLOAT SUBFLOOR WITH ARDEX K 55 MICROTEC. SELF-LEVELING UNDERLAYMENT OR EQUAL AS NECESSARY TO PROPERLY INSTALL LARGE TILES PER MANUFACTURER'S INSTRUCTIONS. THIN SET TILE OVER CRACK ISOLATION MEMBRANE.
- PROVIDE ARDEX K 55 MICROTEC, SELF-LEVELING UNDERLAYMENT OR EQUAL TO RAMP FLOOR FOR A SMOOTH, GRADUAL TRANSITION BETWEEN TILE AND CARPET, TYP.
- INSTALL TRANSITION STRIP WHERE TRANSITIONS OCCUR BETWEEN TWO DIFFERENT FLOOR FINISHES. SEE 19/A-501.
- FLOOR COVERING TRANSITIONS AT DOOR OPENINGS SHALL OCCUR BELOW DOOR IN CLOSED POSITION.
- INSTALLATION OF ALL FINISH MATERIALS SHALL COMPLY WITH MANUFACTURERS RECOMMENDED INSTALLATION INSTRUCTIONS.
- ALL PARTITIONS, & EXTERIOR WALLS SHALL RECEIVE RESILIENT BASE U.O.N. INSTALL COVERED TOP SET BASE AT ROOMS WITH RESILIENT FLOOR COVERING, STRAIGHT CARPET SET BASE AT CARPETED AREAS.
- PROVIDE 1/8" MAXIMUM GROUT JOINTS AT STONE TILE, U.O.N.
- PAINT ALL EXISTING PAINT GRADE DOORS & FRAMES WITH NEW SEMI-GLOSS ENAMEL PAINT. COLOR SHALL MATCH ADJACENT WALL, U.O.N.
- PAINT ALL NEW CONSTRUCTION. TOUCH UP EXISTING AS REQUIRED (PAINT ENTIRE WALL SURFACE). WALL TEXTURE & PAINT FINISH SHALL MATCH EXISTING.
- PROVIDE NEW PAINT THROUGHOUT SUITE 100 AS SCHEDULED. SUITE 150 LIMITED TO CONSTRUCTION AREA.

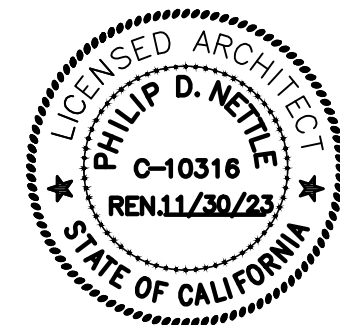
GENERAL FINISH NOTES

- ENSURE SURFACES TO RECEIVE FINISHES ARE CLEAN, TRUE, AND FREE OF IRREGULARITIES. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
- REPAIR & PREPARE EXISTING SURFACES SHOWN TO REMAIN AS REQ'D. FOR APPLICATION OF NEW FINISHES.
- PREPARE SUBFLOOR AS REQUIRED FOR NEW FLOOR FINISHES.
- IN ALL AREAS WHERE DEMOLITION/REMOVAL OF TILE, PARTITIONS, ETC. CAUSES AN UNEVENNESS IN THE SLAB, THE CONTRACTOR SHALL PATCH TO LEVEL THE SLAB TO RECEIVE NEW FINISH FLOORING.
- COMMENCEMENT OF WORK BY CONTRACTOR SHALL INDICATE ACCEPTANCE OF EXISTING CONDITIONS FOR INSTALLATION OF NEW FINISH MATERIALS.
- ALL ACCESS PLATES, PANEL BOXES, ETC. SHALL BE PAINTED TO MATCH ADJACENT WALL. IF ADJACENT WALL IS FINISHED WITH WALL COVERING, PAINT SHALL BE SPECIFIED BY ARTFUL ENVIRONMENT.
- ALL TRANSITIONS BETWEEN MATERIALS SHALL BE SMOOTH.
- ALL FINISH MATERIALS SHALL BE SUBMITTED TO ARTFUL ENVIRONMENT FOR APPROVAL PRIOR TO PURCHASE OF MATERIALS. CONTRACTOR SHALL SUBMIT A MINIMUM OF (2) SAMPLES OF EACH MATERIAL FOR APPROVAL, INCLUDING STAIR ACCENT STRIP FINISH MATERIAL. WHERE CERAMIC OR NATURAL STONE TILES ARE SPECIFIED, SUBMITTAL SAMPLES SHALL BE FULL-SIZED SAMPLES TO MATCH THE SIZE SPECIFIED ON THE DRAWINGS.
- ALL WALL AND CEILING FINISHES SHALL COMPLY WITH 2022 CBC SEC. 803. ALL FLOOR FINISHES SHALL COMPLY WITH 2022 CBC SEC. 804. ALL DECORATIVE TRIM SHALL COMPLY WITH 2022 CBC SEC. 806.
- ALL CARPET SHALL COMPLY WITH 2022 CBC SECTION 11B-302.2.
- ALL CARPET TESTING SHALL MEET NFPA 253 TESTING, CLASS I OR II & ASTM E648.
- ALL WOOD AND RUBBER BASE TESTING SHALL MEET ASTM E84. CLASS B & <450 SMOKE DEVELOPMENT REQUIREMENTS.
- ALL WALL COVERING (ADHERED) INCLUDING FRP PANELS SHALL MEET NFPA 286 TESTING & SHALL BE CLASS "C" IN ROOMS & CORRIDORS.
- VINYL WALL BASE SHALL NOT TO BE INSTALLED AT CASEWORK UNLESS SPECIFICALLY NOTED.
- NATURAL AND STAIN GRADE WOOD BASE SHALL BE IN LENGTHS NO LESS THAN 6' UNLESS REQUIRED BY LAYOUT. GRAIN, COLOR, & TEXTURE SHALL MATCH AS CLOSELY AS POSSIBLE WITH ADJACENT BASE.
- CONTRACTOR SHALL CONFIRM CARPET INSTALLATION DIRECTION WITH ARTFUL ENVIRONMENT PRIOR TO INSTALLATION FOR DIRECTIONAL & PATTERNED CARPET.
- MAX. VERTICAL CHANGE IN FINISH FLOOR LEVEL SHALL BE 1/4" OR, W/ BEVELED CHANGE IN LEVEL, LESS THAN 3/8".
- FLOOR & GROUND SURFACES SHALL BE STABLE, FIRM, & SLIP-RESISTENT. (2022 CBC 11B-302).
- CONTRACTOR SHALL FURNISH AN ADDITIONAL 5% MIN. OF SPECIFIED CARPET TILE UPON PROJECT COMPLETION FOR THE TENANT. MATERIAL SHALL BE FROM THE SAME PRODUCTION RUN AS THE INSTALLED PRODUCT AND SHALL BE PACKAGED WITH IDENTIFYING LABELS.
- PAINT FINISHES SHALL BE AS FOLLOWS, U.O.N.:
FLAT: GYP. BD. SOFFITS, GYP. BD. CEILINGS (EXCEPT RESTROOMS), OPEN CLG. STRUCTURE, CAP SHEETS
EGGSHELL: ALL WALLS, U.O.N.
SEMI GLOSS: PAINTED STAIR RAILS, RESTROOM WALLS & CEILINGS, JANITOR CLOSETS, PAINT GRADE DOORS & FRAMES, EXPOSED STEEL K-BRACING AND COLUMNS



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Phillip D. Nettle

MORGAN HILL POLICE
DEPARTMENT EXPANSION

16200 VINEYARD BLVD.
MORGAN HILL, CA 95037

10/06/2023 SUBMIT FOR PLAN CHECK

DRAWING TITLE:

FINISH PLAN & DOOR
SCHEDULE

DRAWING NO.:

A5.0

SCALE:

AS NOTED

REFERENCE SPECIFICATIONS (AS APPLIES)

A. GENERAL CONDITIONS

1. THE GENERAL CONDITIONS OF THE CONTRACT FOR THE CONSTRUCTION OF BUILDINGS, THE MOST CURRENT DOCUMENT A-201, ISSUED BY THE AMERICAN INSTITUTE OF ARCHITECTS, HEREINAFTER REFERRED TO AS THE 'GENERAL CONDITIONS' RELATES TO THE WORK OF THIS PROJECT AND IS HEREBY MADE A PART OF THE CONTRACT AS THOUGH FULLY CONTAINED IN THESE SPECIFICATIONS.

2. THE CONTRACTOR AND ALL SUBCONTRACTORS ARE HEREBY SPECIFICALLY DIRECTED AS A CONDITION OF THE CONTRACT, TO OBTAIN THE NECESSARY NUMBER OF COPIES OF DOCUMENT A-201, TO ACQUAINT THEMSELVES WITH THE ARTICLES CONTAINED THEREIN, AND TO NOTIFY AND APPRISE ANY OTHER PARTIES TO THE CONTRACT OF INDIVIDUALS OF AGENCIES ENGAGED ON THE WORK, AS TO ITS CONTENTS.

B. SUPPLEMENTARY GENERAL CONDITIONS

1. **CONTRACT DOCUMENTS:** INCLUDE THE ARCHITECT'S DRAWINGS, SPECIFICATIONS, GENERAL CONDITIONS, AGREEMENT (BUILDING CONTRACT) AND ALL ADDENDA. THEY ARE COMPLEMENTARY AND WHAT IS CALLED FOR BY ANY ONE SHALL BE AS BINDING AS IF CALLED FOR BY ALL. THEIR INTENTION IS TO INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY FOR THE PROPER EXECUTION OF THE WORK EXCEPT AS MAY BE SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS OR FOR WHICH SEPARATE PRICES MAY BE ASKED IN THE BID PROPOSAL. THE TERM 'CONTRACTOR' USED HEREIN REFERS TO ANY AND ALL SUBCONTRACTORS.

2. **REGULATION, TAXES, AND PERMITS:** THE WHOLE OF THE WORK IS TO BE EXECUTED IN STRICT ACCORDANCE WITH THE REGULATIONS AND CODES OF THE GOVERNMENTAL AGENCIES WHOSE JURISDICTIONS ARE APPLICABLE. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED PERMITS, INCLUDING BUILDING PERMIT AT OWNERS EXPENSE.

3. **SUBCONTRACTORS:** DIVISION OF THESE SPECIFICATIONS INTO TRADE HEADINGS CONFORMS ROUGHLY TO CUSTOMARY PRACTICE. THEY ARE FOR CONVENIENCE ONLY, THE ARCHITECT IS NOT BOUND TO DEFINE THE LIMITS OF ANY SUBCONTRACT.

4. **NUMBER OF SPECIFIED ITEMS REQUIRED:** WHENEVER IN THESE SPECIFICATIONS AN ARTICLE DEVICE OR PIECE OF EQUIPMENT IS REFERRED TO IN THE SINGULAR NUMBER, SUCH REFERENCES SHALL APPLY TO AS MANY SUCH ARTICLES AS ARE SHOWN IN THE DRAWINGS OR REQUIRED TO COMPLETE THE INSTALLATION.

5. **CLAIMS FOR EXTRA COSTS:** IF ANY CONTRACTOR CLAIMS THAT ANY INSTRUCTIONS FROM THE ARCHITECT OR OWNER INVOLVES EXTRA COST UNDER THIS CONTRACT, HE SHALL GIVE WRITTEN NOTICE THEREOF WITHIN A REASONABLE TIME AFTER THE RECEIPT OF SUCH INSTRUCTIONS, NO LATER THAN 5 DAYS THEREFROM, AND, IN ANY EVENT, BEFORE PROCEEDING TO EXECUTE THE WORK, EXCEPT IN EMERGENCY ENDANGERING LIFE OR PROPERTY, AND THE PROCEDURE SHALL THEN BE AS PROVIDED FOR CHANGES IN THE WORK, NO SUCH CLAIM SHALL BE VALID UNLESS SO MADE.

6. **AMBIGUITIES IN DRAWINGS OR SPECIFICATIONS:** THIS SPECIFICATION AND THE ACCOMPANYING DRAWINGS ARE INTENDED TO DESCRIBE AND PROVIDE FOR A FINISH PIECE OF WORK. THEY ARE INTENDED TO BE COOPERATIVE, AND WHAT IS CALLED FOR BY EITHER SHALL BE AS BINDING AS IF CALLED FOR BY BOTH. THE CONTRACTOR SHALL UNDERSTAND THAT THE WORK HEREIN DESCRIBED WILL BE COMPLETE IN EVERY DETAIL, INCLUDING EVERY ITEM NECESSARILY INVOLVED THOUGH NOT SPECIFICALLY MENTIONED. THE CONTRACTOR WILL BE HELD TO PROVIDE ALL LABOR AND MATERIALS NECESSARY FOR THE ENTIRE COMPLETION OF THE WORK INTENDED TO BE DESCRIBED. THE CONTRACTORS SHALL NOT AVOID THEMSELVES OF ANY MANIFESTLY UNINTENTIONAL ERROR OR OMISSION SHOULD SUCH ERROR OR OMISSION BE OBSERVED OR INCONSISTENCY APPEAR IN THE DRAWINGS OR SPECIFICATIONS OR IN WORK DONE BY OTHERS, THE CONTRACTOR SHALL BEFORE PROCEEDING WITH THE WORK, CONTACT THE ARCHITECT OR INSTRUCTIONS AS TO THE PROPER ADJUSTMENT AND IN NO CASE SHALL THE CONTRACTOR PROCEED WITH THE WORK IN UNCERTAINTY.

7. **WORKING OF SPECIFICATIONS:** THESE SPECIFICATIONS ARE WRITTEN IN THE ABBREVIATED OR 'STREAMLINE' FORM, AND FREQUENTLY INCLUDE INCOMPLETE SENTENCES. WORDS SUCH AS 'BE SUPPLIED BY INFERENCE,' THE WORD 'ACCEPTED' MEANS 'ACCEPTED BY THE ARCHITECT,' 'FOR ACCEPTANCE' MEANS 'FOR THE ARCHITECT'S ACCEPTANCE,' 'SELECTED' MEANS 'SELECTED BY THE ARCHITECT,' 'PROVIDE' MEANS 'FURNISH AND INSTALL,' WHERE THE WORDS 'EQUIVALENT TO,' 'ACCEPTED EQUAL,' OR 'OR EQUAL,' APPEAR, THE ARCHITECT IS THE SOLE JUDGE OF THE QUALITY AND SUITABILITY OF THE PROPOSED SUBSTITUTION.

8. **ORAL MODIFICATION:** NO ORAL STATEMENT OF ANY PERSON WHOSOEVER SHALL, IN ANY MANNER OR DEGREE MODIFY OR OTHERWISE AFFECT THE TERMS OF THIS CONTRACT. NEITHER THE DELAYS, OR ANY LIABILITY ARISING FROM ANY ORAL AGREEMENTS, ACCEPTANCES, MODIFICATIONS, OR CONVERSATIONS BETWEEN THE OWNER OR ARCHITECT INCLUDING THEIR AGENTS OR REPRESENTATIVES, AND THE CONTRACTOR, INCLUDING HIS WORKMEN, SUBCONTRACTORS, SUPPLIERS, AGENTS OR REPRESENTATIVES.

9. GUARANTEE:

GUARANTEE: IN ADDITION TO THE GUARANTEES REQUIRED IN THE 'GENERAL CONDITIONS', ALL WORKMANSHIP, EQUIPMENT AND MATERIALS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION. SHOULD ANY DEFECTS OCCUR DURING THIS PERIOD, PROMPTLY REPAIR OR REPLACE THE DEFECTIVE ITEM FREE OF CHARGE TO THE OWNER, INCLUDING COST OF LABOR BASED UPON NORMAL WORKING HOURS.

10. SAFETY AND INDEMNITY.

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING, MAINTAINING AND SUPERVISING ALL NECESSARY SAFETY PRECAUTIONS WHICH WILL INSURE AGAINST INJURY TO PERSONS OR DAMAGE TO PROPERTY AS A RESULT OF ANY OF HIS WORK, TOOLS, OR EQUIPMENT ON OR OFF THE PROJECT, BEFORE, DURING OR AFTER NORMAL WORKING HOURS. NO DRAWING REVIEW CONSTRUCTION REVIEW, OR ANY OTHER ACT OR SERVICE RENDERED BY THE OWNER, ARCHITECT, THEIR EMPLOYEES OR CONSULTANTS, SHALL BE CONSTRUED TO APPROVE OR JUDGE UPON THE ADEQUACY OF THE CONTRACTORS SAFETY MEASURES.

B. THE CONTRACTOR SHALL HOLD HARMLESS, INDEMNIFY AND DEFEND THE OWNER, ARCHITECT, THEIR EMPLOYEES AND CONSULTANTS FROM ANY AND ALL LIABILITY CLAIMS, LOSSES OR DAMAGE ARISING OR ALLEGED TO ARISE FROM THE PERFORMANCE OF THE WORK DESCRIBED HEREIN, BUT NOT INCLUDING THE SOLE NEGLIGENCE OF THE OWNER, ARCHITECT, THEIR EMPLOYEES OR CONSULTANTS.

C. TECHNICAL SPECIFICATIONS

DIVISION 1 - GENERAL REQUIREMENTS

SECTION 01010 - SUMMARY OF WORK:

A. SCOPE: WORK OF THIS CONTRACT INCLUDES FURNISHING OF LABOR, MATERIALS, APPLIANCES, TRANSPORTATION AND SERVICES REQUIRED TO COMPLETE BUILDING, INCLUDING SITE WORK, PAVING, GENERAL CONSTRUCTION, PLUMBING, AND ELECTRICAL WORK, COMPLETE AND ALL OTHER WORK CALLED FOR IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS. ITEMS OF WORK INDICATED OR SPECIFIED IN C. ARE FURNISHED BY OWNER OR OTHERS.

B. REFERENCE TO BUILDING CODE: WHENEVER THE TERM 'BUILDING CODE' OR 'CODE' IS USED IN SPECIFICATIONS, SAID TERMS MEAN THE LATEST EDITION OF THE UNIFORM BUILDING CODE AND/OR TO CODES OF GOVERNMENT AGENCIES AS MAY HAVE JURISDICTION PRESENTLY ENFORCED.

C. PRODUCT DELIVERY, STORAGE, AND HANDLING: MATERIAL AND PRODUCTS SHALL BE DELIVERED TO THE BUILDING SITE IN ORIGINAL PACKAGES. MATERIALS AND PRODUCTS SHALL BE STORED OFF THE GROUND ON WOOD BLOCKING IN AN UPRIGHT POSITION PROTECTED FROM THE ELEMENTS, IN A MANNER TO PREVENT DAMAGE OR MARKING OF FINISH.

D. OTHER CONTRACTORS: THERE IS RESERVED TO THE OWNER THE RIGHT TO HAVE OTHER CONTRACTORS INSTALLING EQUIPMENT AND DOING OTHER WORK BEFORE COMPLETION OF THE PROJECT. ALL PARTIES SHALL COORDINATE THEIR PLANS AND SUPERVISIONS TO THE END THAT THE WORK SHALL NOT BE MATERIALLY IMPEDED THEREBY.

E. GUARANTEE: CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REPLACE OR REMEDY ANY FAULTY, IMPROPER OR INTERIOR MATERIALS OR WORKMANSHIP OR DAMAGE TO OTHER WORK RESULTING THEREFROM, WITHOUT COST TO OWNER, WHICH SHALL APPEAR WITHIN ONE YEAR AFTER THE COMPLETION AND ACCEPTANCE OF THE WORK UNDER THIS CONTRACT. EXCEPTION: THE ROOFING SUBCONTRACTOR SHALL FURNISH A MAINTENANCE AGREEMENT, CONSIGNED BY THE CONTRACTOR, TO MAINTAIN THE ROOFING IN A WATERIGHT CONDITION FOR A PERIOD OF TWO YEARS.

SECTION 01300 - SUBMITTALS

A. CONTRACTOR SHALL SUBMIT 5 COPIES OF REQUIRED SHOP DRAWINGS, CALCULATIONS OF FABRICATED PRODUCTS, AND 5 COPIES OF MANUFACTURERS CATALOG SHEETS, BROCHURES, COLOR SAMPLES, INSTALLATION INSTRUCTIONS, ETC., ON MANUFACTURED PRODUCTS USED OR INSTALLED IN THE PROJECT FOR OWNERS ACCEPTANCE BEFORE PURCHASE OR DELIVERY TO THE SITE. NONCOMPLIANCE MAY RESULT IN REJECTION AND NON-COMPLIANCE.

SECTION 01500 - TEMPORARY FACILITIES AND CONTROLS

A. **TEMPORARY TOILETS:** PROVIDE AND MAINTAIN CHEMICAL TOILETS IN RATIO REQUIRED BY OSHA, CALIFORNIA INDUSTRIAL SAFETY REGULATIONS, AND CONTROLLING JURISDICTIONAL CODES, REGULATIONS AND REQUIREMENTS. TEMPORARY TOILETS SHALL BE CONVENIENTLY LOCATED FOR USE BY ON-SITE WORKERS.

B. **TEMPORARY UTILITIES:** PROVIDE AND PAY FOR LIGHT AND POWER, TELEPHONE, AND WATER NECESSARY TO PERFORM THE WORK OF THIS CONTRACT.

C. **PROTECTION OF UTILITIES:** THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UNDERGROUND UTILITIES ENCOUNTERED IN AREAS WHERE EXCAVATIONS ARE INDICATED AND SHALL REPAIR ANY SUCH DAMAGE AT HIS OWN EXPENSE. WHERE UTILITY LINES MUST BE MAINTAINED UNDER BUILDING, THEY SHALL BE PROPERLY SLEEVED THROUGH FOUNDATION WALLS. AT ALL LOCATIONS WHERE UTILITIES PENETRATE THE EXTERIOR SIDE OF FOUNDATIONS BACKFILL SHALL BE A NATIVE SOIL OF LOW PERMEABILITY OR A CONCRETE PAVEMENT, NO SAND OR OTHER HIGH PERMEABILITY FILT MATERIALS SHALL BE USED IN THESE LOCATIONS. FOOTING SHALL BE DROPPED TO A DEPTH BELOW UTILITY AS REQUIRED BY DETAILS ON DRAWINGS, I.E., PRESSURE PROXIMITY, SLEEVE LOCATION, STEPS, REINFORCING ETC., ALL AT NO ADDITIONAL COST TO OWNER.

D. **DUST PROTECTION:** DURING GRADING OPERATIONS AND THROUGHOUT THE CONSTRUCTION PERIOD THE CONTRACTOR SHALL PROTECT THE SURROUNDING NEIGHBORHOOD OR OTHER PORTIONS OF THE EXISTING PLANT FROM A DUST NUISANCE BY WETTING DOWN THE EARTH SURFACES THAT BECOME DRY, PULVERIZED AND SUBJECT TO THE CREATION OF DUST, BY WIND ACTION OR OTHER MEANS.

E. **SCAFFOLDING:** STAGING AND SCAFFOLDING SHALL BE ERECTED, EQUIPMENT AND MAINTAINED, IN ACCORDANCE WITH STATUTES, LAWS, ORDINANCES, AND REGULATIONS OF STATE, COUNTY, MUNICIPAL, OR OTHER AUTHORITIES AND INSURANCE COMPANIES HAVING JURISDICTION.

F. **HOISTS AND CRANES:** FURNISH AND MAINTAIN EQUIPMENT FOR VERTICAL TRANSPORTATION OF MATERIALS EQUIPMENT, AND PERSONS CONNECTED WITH THE WORK. SUCH EQUIPMENT, HOISTS, AND CRANES, INCLUDING CRANES FOR TILT-UP WORK, SHALL BE CONSTRUCTED, ERECTED, OPERATED, AND MAINTAINED IN ACCORDANCE WITH STATUTES, LAWS, ORDINANCES, AND REGULATIONS OF STATE, COUNTY MUNICIPAL, OR OTHER AUTHORITIES AND INSURANCE COMPANIES HAVING JURISDICTION.

G. **STORAGE AND WORK AREAS:** FURNISH AND MAINTAIN NECESSARY WATER TIGHT STORAGE FACILITIES AS REQUIRED FOR THE PROPER STORAGE OF MATERIALS AND EQUIPMENT. PORTIONS OF THE SITE MAY BE USED BY THE CONTRACTOR FOR MATERIAL STORAGE AND WORKING SPACE. THE WORK AREA SHALL BE MAINTAINED IN AN ORDERLY MANNER, FREE FROM ACCUMULATED DEBRIS AND WASTE.

H. **GUARDS, BARRICADES, AND LIGHTS:** PROVIDE, INSTALL, AND MAINTAIN BEGINNING TO THE COMPLETION OF THE WORK, CONSTRUCTION CANOPIES, BARRICADES, FENCES, GUARDS, RAILING, LIGHTS, AND WARNING SIGNS NECESSARY AND REQUIRED BY LAW, AND TAKE NECESSARY PRECAUTIONS REQUIRED BY COUNTY, STATE, MUNICIPAL, OR OTHER LAW AND AS REQUIRED TO AVOID INJURY OR DAMAGE TO ANY PERSONS AND PROPERTY.

I. **PROTECTION:** PROTECT SERVICE MAIN PIPES, LAMP POSTS, FIRE HYDRANTS, CURBS, AND GUTTERS OR OTHER PUBLIC OR PRIVATE UTILITIES.

J. **SAFETY:** THE CONTRACTOR SHALL CONDUCT HIS WORK AND REQUIRE SUBCONTRACTORS TO CONDUCT THEIR WORK IN ACCORDANCE WITH SAFETY REQUIREMENTS OF THE CALIFORNIA INDUSTRIAL ACCIDENT COMMISSION AND DIVISION OF INDUSTRIAL SAFETY, AND SHALL PROVIDE NECESSARY PRECAUTIONS AND PROTECTIVE COVERINGS WHICH ARE NECESSARY FOR PROTECTION OF THIS WORK OF THAT OF OTHERS AND FOR THE SAFETY OF PERSONS ON OR ABOUT THE SITE.

L. **SWPP MANAGEMENT:** THE SITE AND OFFSITE SHALL BE MAINTAINED TO THE ACCEPTANCE OF CITY, STATE, REGIONAL WATER QUALITY BOARD AND FEDERAL AGENCIES.

L. FIRE PRECAUTION AND PROTECTION

1. **GENERAL:** THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO GUARD AGAINST AND ELIMINATE POSSIBLE FIRE HAZARDS AND TO PREVENT DAMAGE TO CONSTRUCTION WORK, BUILDING MATERIALS, EQUIPMENT, TEMPORARY FIELD OFFICES, STORAGE SHEDS, AND PUBLIC AND PRIVATE PROPERTY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING, MAINTAINING AND ENFORCING THE FOLLOWING CONDITIONS AND REQUIREMENTS DURING THE ENTIRE CONSTRUCTION PERIOD.

2. **FIRE PROTECTION:** THE CONTRACTOR'S SUPERINTENDENT IN CHARGE SHALL INSPECT THE ENTIRE PROJECT AT LEAST ONCE EACH WEEK TO MAKE CERTAIN THAT THE CONDITIONS AND REQUIREMENTS ARE BEING ADHERED TO.

3. **FIRE HOSES AND EXTINGUISHERS:** PROVIDE FIRE HOSES AND EXTINGUISHERS AS NECESSARY TO COMPLY WITH OSHA, CALIFORNIA INDUSTRIAL SAFETY REGULATIONS, AND CONTROLLING JURISDICTIONAL CODES, REQUIREMENTS, AND REGULATIONS.

4. **FIRES:** EMPLOYEES SHALL NOT BE ALLOWED TO START FIRES WITH GASOLINE OR KEROSENE OR OTHER HIGHLY FLAMMABLE MATERIALS. NO OPEN FIRES SHALL BE ALLOWED.

5. **FLAMMABLE MATERIALS:** ONLY A REASONABLE WORKING SUPPLY OF FLAMMABLE BUILDING MATERIAL SHALL BE LOCATED INSIDE OF, OR ON THE ROOF OF THE BUILDING.

6. **TAPPALLS USED DURING THE COURSE OF CONSTRUCTION** SHALL BE OF FLAMEPROOF TYPE SECURED IN PLACE AGAINST DAMAGE OF 'FLAPPING' FROM WINDS.

7. **COMBUSTIBLE MATERIALS:** OIL SOAKED RAGS, PAPER AND OTHER HIGHLY COMBUSTIBLE MATERIALS SHALL BE REMOVED FROM THE BUILDING AT THE CLOSE OF EACH DAYS WORK AND MORE OFTEN WHERE NECESSARY AND PLACED IN METAL CONTAINERS WITH TIGHT HINGED LIDS.

8. **GASOLINE AND BENZENE OR LIKE COMBUSTIBLE MATERIALS** SHALL NOT BE POURED INTO SEWERS, MANHOLES, OR TRAPS, BUT SHALL BE DISPOSED OF TOGETHER WITH FLAMMABLE OR WASTE MATERIAL SUBJECT TO SPONTANEOUS COMBUSTION. MAKE APPROPRIATE ARRANGEMENTS FOR STORING THESE MATERIALS OUTSIDE OF BUILDING.

HEATING VENTILATING AND AIR CONDITIONING

GENERAL:

A. MODIFY THE EXISTING AUTOMATIC AIR CONDITIONING (HVAC) SYSTEM FOR THE SPACE SHOWN. SYSTEM SHALL CONFORM TO REQUIREMENTS AND BE COMPATIBLE WITH EXISTING BUILDING SYSTEM. SEE MECHANICAL ENGINEERING DRAWINGS.

PLUMBING

(FOR REFERENCE ONLY-IF APPLIES)

GENERAL:

- DESIGN AND INSTALL PLUMBING WORK INDICATED ON THE ARCHITECTURAL DRAWINGS AND DESCRIBED HEREIN. ALSO PROVIDE ANY INCIDENTAL WORK NOT SHOWN OR SPECIFIED AS NECESSARY TO PROVIDE A COMPLETE SYSTEM.
- COORDINATE WITH THE WORK OF OTHER TRADES.
- ALL WORK SHALL BE IN STRICT COMPLIANCE WITH ALL APPLICABLE CODES.
- ALL SUPPLY LINES SHALL BE THOROUGHLY CLEANED AND FLUSHED IN STRICT COMPLIANCE WITH ALL APPLICABLE CODES TO COMPLETELY REMOVE ALL DEBRIS AND CONTAMINANTS FROM THE SYSTEM. CARE SHOULD BE EXERCISED TO PERFORM FLUSHING AFTER REGULAR WORKING HOURS TO PREVENT TRAVEL OF DEBRIS AND CONTAMINANTS THROUGHOUT SYSTEM TO ANY OCCUPIED SPACES.
- PLUMBING WORK SHALL BE DESIGNED AND BUILT IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS, AND SHALL COMPLY WITH UNIFORM PLUMBING CODE REQUIREMENTS. CONTRACTOR MAY BE RESPONSIBLE FOR OBTAINING SEPARATE PERMIT.

FIRE SPRINKLER SYSTEM

(FOR REFERENCE ONLY-IF APPLIES/DEFERRED APPROVAL ITEM)

- SCOPE OF WORK: FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND NECESSARY INCIDENTALS FOR THE COMPLETE INSTALLATION OF SPRINKLER SYSTEM. EXISTING FIRE SPRINKLER SYSTEM SHALL BE MODIFIED AS REQUIRED FOR CONSTRUCTION. SPRINKLERS WORK SHALL BE DESIGN-BUILD. FIRE PROTECTION SHALL BE DESIGNED AND BUILT IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS. AUTOMATIC FIRE SPRINKLER SYSTEM PLANS SHALL BE REVIEWED AND APPROVED BY FIRE DEPARTMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING SEPARATE PERMIT.
- FIRE PROTECTION
- FIRE SPRINKLERS: SEMI-RECESSED UNLESS REQUIRED TO MATCH EXISTING BUILDING STANDARD, U.O.N. FINISH: BRIGHT CHROME WITH WHITE ESCUTCHEON U.O.N.
- SPRINKLER HEADS SHALL NOT BE PLACED ON CEILING GRID LINES, CENTER ON HALF 2'x4' TILES, IN LARGE OPEN SPACES, SPRINKLER HEADS SHALL BE PLACED IN STRAIGHT, SYMMETRICAL AND EVEN LINES.
- ALL SPRINKLER INSTALLATIONS SHALL CONFORM TO ALL APPLICABLE CODES.
- FOR EXISTING FIRE SPRINKLER SYSTEMS, NEW SPRINKLER HEADS SHALL BE BUILDING STANDARD TO MATCH EXISTING.

ELECTRICAL

1. GENERAL:

A. MODIFY THE EXISTING ELECTRICAL SYSTEM FOR THE SPACE SHOWN. REFER TO ELECTRICAL DRAWINGS

E. PROVIDE EMERGENCY LIGHTING AND ILLUMINATED EXIT SIGNS AS REQUIRED BY THE BUILDING DEPARTMENT.

F. UPON PROJECT COMPLETION, CONTRACTOR SHALL SUBMIT A REPRODUCIBLE AS-BUILT DRAWING TO THE OWNERS REPRESENTATIVE.

2. MATERIALS

F. PROVIDE SMOKE DETECTORS AS REQUIRED BY CBC SECTION 1005.7 EXCEPTION 5. SMOKE DETECTORS SHALL BE INTERCONNECTED, AS DIRECTED BY THE FIRE MARSHAL.

H. ALL CEILING FIXTURES AND WIRING FOR LIGHT FIXTURES, EXIT SIGNS, OR OTHER ELECTRICAL DEVICES SHALL BE U.L. APPROVED AND SHALL BE INSTALLED IN CONDUIT OR OTHER WIRING METHOD APPROVED BY THE BUILDING DEPARTMENT.

I. ALL LIGHT FIXTURES SHALL BE FULLY OPERATIONAL. REPLACE LAMPS, REPAIR BALLASTS, AND CLEAN OR REPLACE LENSES AS REQUIRED.

01000 GENERAL CONDITIONS

1. THE GENERAL CONDITIONS OF THE CONTRACT IS THE AMERICAN INSTITUTE OF DESIGN TEAMS AIA DOCUMENTS A201, "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION", CURRENT EDITION, WHICH IS MADE A PART OF THE CONTRACT DOCUMENTS WITH THE SAME FORCE AND EFFECT AS THOUGH SET FORTH IN FULL AND SHALL APPLY TO ALL PORTIONS OF THE WORK.

2. THE CONTRACTOR IS HEREBY SPECIFICALLY DIRECTED, AS A CONDITION OF THE CONTRACT, TO OBTAIN THE NECESSARY NUMBER OF COPIES OF AIA DOCUMENT A201 TO ACQUAINT HIMSELF WITH THE ARTICLES CONTAINED THEREIN, AND TO NOTIFY AND APPRISE ALL SUBCONTRACTORS AND ANY OTHER PARTIES TO THE CONTRACT OR INDIVIDUALS OR AGENCIES ENGAGED ON THE WORK AS TO ITS CONCEPTS.

3. THE TERM 'CONTRACTOR' SHALL REFER TO SUBCONTRACTORS AS WELL AS THE GENERAL CONTRACTOR.

SUPPLEMENTARY CONDITIONS:

1. SUPERVISION: THE CONTRACTOR SHALL PROVIDE GENERAL SUPERVISION TO THE WORK AND HAVE A RESPONSIBLE FOREMAN ON THE JOB TO ACT AS REPRESENTATIVE WHEN WORK IS IN PROGRESS. THE FOREMAN SHALL NOT BE REPLACED WITHOUT DESIGN TEAM'S APPROVAL.

2. TAXES: THE CONTRACTOR SUM AND ANY AGREED VARIATIONS THEREOF SHALL INCLUDE ALL TAXES IN AIDED BY LAWS.

3. PERMITS, REGULATIONS AND NOTICES: THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS AND ORDINANCES AS DRAWN AND SPECIFIED. NO EXTRA CHARGES FOR SUCH COMPLIANCE WILL BE ALLOWED.

4. SUBCONTRACTORS: PRIOR TO SIGNING OF CONTRACT, THE CONTRACTOR WILL SUBMIT TO ARTFUL ENVIRONMENT AND OWNER A LIST OF ALL SUBCONTRACTORS WITH CONTRACT NAMES AND PHONE NUMBERS.

5. ITEMIZED SCHEDULE OF COSTS: PREPARE A COMPLETE BREAKDOWN OF COSTS LISTING EACH TRADE AND UNIT OF WORK ON A FORM APPROVED BY THE OWNER AND THE DESIGN TEAM.

6. EXTRAS: BILLS FOR EXTRAS WILL ONLY BE ALLOWED WHEN WORK IS AUTHORIZED IN ADVANCE BY OWNER AND NOT PART OF THE PROJECT SCOPE (OTHER BUILDINGS, SITE, ETC.) AND ARE CONSIDERED FACE-OF-FINISH TO FACE-OF-FINISH.

CONSTRUCTION DOCUMENTS:

- DIMENSIONS INDICATED IN CONTRACT DOCUMENTS SHALL GOVERN. DO NOT SCALE DRAWINGS.
- DETAILS SHALL GOVERN OVER GENERAL DRAWINGS.
- DRAWINGS AND SPECIFICATIONS ARE CORRELATIVE. ANY WORK AND MATERIALS SHOWN ON EITHER SHALL BE EXECUTED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL NOTIFY ARTFUL ENVIRONMENT OF ANY DISCREPANCIES, CONFLICTS, ERRORS OR OMISSIONS ENCOUNTERED ON THE DRAWINGS PRIOR TO PROCEEDING WITH CONSTRUCTION OR ORDERING MATERIALS. IF THERE ARE ANY QUESTIONS REGARDING THE DRAWINGS, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM ARTFUL ENVIRONMENT BEFORE PROCEEDING WITH THE WORK IN QUESTION. IN THE EVENT OF FAILURE TO DO SO, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTION OF ANY ERRORS. ONLY ARTFUL ENVIRONMENT SHALL INTERPRET THE DRAWINGS AND SPECIFICATIONS.
- IN THE CASE OF CONFLICT BETWEEN THE SPECIFICATIONS AND THE DRAWINGS, THE SPECIFICATIONS GOVERN. ANY UNRESOLVED CONFLICT IN THE CONSTRUCTION DOCUMENTS AS TO THE INTENT AND EXECUTION OF WORK SHALL BE RESOLVED BY THE DESIGN TEAM.

GENERAL REQUIREMENTS: SUMMARY OF THE WORK:

6. THE WORK TO BE PERFORMED CONSISTS OF FURNISHING ALL SUPERVISION, CONSTRUCTION LABOR, MATERIALS, TRANSPORTATION AND EQUIPMENT REQUIRED FOR THE CONSTRUCTION OF THE IMPROVEMENTS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN. IN ADDITION, THIS INCLUDES REROUTING ANY CONCEALED PIPING, WIRING, DUCTS, ETC., IN THE WALLS, CEILINGS OR FLOORS, AND WORK NOT SHOWN BUT REQUIRED BY CITY AUTHORITIES TO OBTAIN FINAL APPROVAL. ALSO INCLUDED IS ALL PATCHING, REPAINTING, ET CETERA, OF ALL SURFACES DAMAGED DURING THESE INSTALLATIONS.

7. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS ARE TO INCLUDE ALL ITEMS NECESSARY TO PERFORM THE WORK IN ITS ENTIRETY. EVERY ITEM REQUIRED FOR A COMPLETE INSTALLATION MAY NOT BE SPECIFICALLY MENTIONED OR SHOWN, UNLESS EXPRESSLY STATED OTHERWISE, ALL SYSTEMS AND EQUIPMENT SHALL BE COMPLETE AND OPERABLE.

8. TITLES, DIVISION HEADINGS, SECTIONS AND PARAGRAPHS IN THE CONTRACT DOCUMENTS ARE FOR THE CONVENIENCE OF THE CONTRACTOR AND SHALL NOT BE TAKEN AS A CORRECT OR COMPLETE SEGREGATION OF MATERIALS AND LABOR. NO RESPONSIBILITY, EITHER DIRECT OR IMPLIED, IS ASSUMED BY THE DESIGN TEAM FOR OMISSIONS OR DUPLICATIONS BY THE CONTRACTOR OR HIS SUBCONTRACTORS FOR REAL OR PERCEIVED ERRORS IN THE ARRANGEMENT OF THE CONTRACT DOCUMENTS.

EXECUTION OF THE WORK:

- GENERAL AND SUBCONTRACTORS ARE RESPONSIBLE FOR INSPECTING THE PREMISES DURING BIDDING TO ASCERTAIN EXISTING CONDITIONS WHICH MIGHT AFFECT THE COST OF CONSTRUCTION. SUBMITTAL OF BID WILL INDICATE THE CONTRACTOR'S ACCEPTANCE OF EXISTING CONDITIONS FOR THE PROPER COMPLETION OF THE PROJECT.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE EXECUTION OF THE WORK IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ASCERTAINING THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO EXCAVATION AND/OR DEMOLITION.
- CONTRACTOR SHALL FIELD INSPECT JOB SITE PRIOR TO COMMENCEMENT OF WORK AND SHALL ADHERE TO ALL RULES GOVERNING CONSTRUCTION SAFETY, BUILDING ACCESS AND THE USE OF PREMISES AS SET FORTH BY THE BUILDING MANAGER, OWNER, BUILDING DEPARTMENT, FIRE DEPARTMENT AND STATE AUTHORITIES.
- IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE SUBCONTRACTORS WORK AND TO REPORT TO ARTFUL ENVIRONMENT ANY DISCREPANCIES FOR CORRECTION OR ADJUSTMENT. COORDINATION SHALL INCLUDE, BUT NOT BE LIMITED TO VERIFYING CLEARANCES AT LIGHT FIXTURES, MECHANICAL EQUIPMENT, PLUMBING, FIRE SPRINKLERS AND ELECTRICAL EQUIPMENT ABOVE THE CEILING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING THE PROJECT SCHEDULE. PRIOR TO START OF THE PROJECT, THE CONTRACTOR SHALL VERIFY LEAD TIMES OF MATERIALS AND SPECIAL ORDER ITEMS TO ASSURE AVAILABILITY TO MEET THE PROJECT SCHEDULE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING THE PROGRESS OF THE WORK AND INFORMING ARTFUL ENVIRONMENT AND THE BUILDING OWNER IMMEDIATELY OF ANY POTENTIAL DELAYS. WITHIN TWO WEEKS OF PROJECT AWARD, THE CONTRACTOR SHALL PROVIDE A SUBMITTAL SCHEDULE OF ALL REQUIRED SUBMITTALS TO ARTFUL ENVIRONMENT.
- ALL WORK LISTED, SHOWN OR IMPLIED IN THE CONSTRUCTION DOCUMENTS SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR, EXCEPT AS NOTED OTHERWISE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER PROTECTION OF EXISTING WORK, ACCESS AND THE USE OF PREMISES AS SET FORTH BY THE BUILDING MANAGER, OWNER, BUILDING DEPARTMENT, FIRE DEPARTMENT AND STATE AUTHORITIES.
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- IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE SUBCONTRACTORS WORK AND TO REPORT TO ARTFUL ENVIRONMENT ANY DISCREPANCIES FOR CORRECTION OR ADJUSTMENT. COORDINATION SHALL INCLUDE, BUT NOT BE LIMITED TO VERIFYING CLEARANCES AT LIGHT FIXTURES, MECHANICAL EQUIPMENT, PLUMBING, FIRE SPRINKLERS AND ELECTRICAL EQUIPMENT ABOVE THE CEILING.
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- ALL WORK LISTED, SHOWN OR IMPLIED IN THE CONSTRUCTION DOCUMENTS SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR, EXCEPT AS NOTED OTHERWISE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER PROTECTION OF EXISTING WORK, ACCESS AND THE USE OF PREMISES AS SET FORTH BY THE BUILDING MANAGER, OWNER, BUILDING DEPARTMENT, FIRE DEPARTMENT AND STATE AUTHORITIES.
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- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING THE PROJECT S

SPECIFICATIONS CONTINUED

06200 FINISH CARPENTRY

1. GENERAL:
- a. CONSTRUCTION SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF "ARCHITECTURAL WOODWORK STANDARDS" BY THE ARCHITECTURAL WOODWORK INSTITUTE, UNLESS OTHERWISE NOTED ON DRAWINGS. SPECIFIC INSTRUCTIONS ON DRAWINGS OR IN SPECIFICATIONS WHICH EXCEED REQUIREMENTS IN " ARCHITECTURAL WOODWORK STANDARDS "SHALL PREVAIL.
- b. PROVIDE NAILS, SCREWS, AND OTHER ANCHORING DEVICES OF TYPE, SIZE, MATERIAL, AND FINISH SUITABLE FOR INTENDED USE AND AS REQUIRED TO PROVIDE SECURE ATTACHMENT; CONCEALED WHERE POSSIBLE.
- c. USE FINE FINISHING NAILS, USG TRIM-HEAD SCREWS AT METAL FRAMING, COUNTERSUNK AND FILLED FLUSH WITH FINISH SURFACE.

07200 INSULATION

1. GENERAL: COMPLY WITH INSULATION MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS. PROVIDE ADEQUATE ANCHORAGE OR SUPPORT FOR EACH UNIT.
2. MATERIALS: ACOUSTIC BATT; OWENS-CORNING "UNFACED FIBERGLASS BUILDING INSULATION"; 3-1/2" THICK, R-13, IN SPECIFIED WALLS, R-19 ABOVE CEILING WHERE SPECIFIED, U.O.N.

07900 SEALANTS AND CAULKING

GENERAL:

1. APPLY CAULKING WHERE NOTED "CAULK" ON DRAWINGS, IN JOINTS NOT LESS THAN 3/4" IN DEPTH AND 1/4" IN WIDTH, UNLESS OTHERWISE SHOWN.
- a. APPLY SILICONE GLAZING SEALANT WHERE NOTED "SEALANT" ON DRAWING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

APPLY "ACOUSTICAL SEALANT" WHERE INDICATED ON DRAWINGS.

2. MATERIALS:

- a. GLAZING SEALANT: BUTYL BASE; PECORA'S BUTYL RUBBER BC-158, PRC'S RUBBER CAULK 2000, OR APPROVED EQUAL. COLOR AS SELECTED BY DESIGN TEAM FROM MANUFACTURER'S STANDARD RANGE.
- b. ACOUSTICAL SEALANT AND CAULK: NON-HARDENING, NON-SHRINKING, SYNTHETIC RUBBER TREMCO "ACRYLIC LATEX CAULK", PECORA #AC-20, OR EQUAL.
- c. FIRE CAULKING COMPOUND: AS INDICATED.

3. EXECUTION:

- a. PROVIDE ACOUSTICAL SEALANT AT SOUND WALLS AT FLOOR, CORNER AND CEILING JOINTS AS INDICATED.
- b. PROVIDE FIRE CAULKING AT ALL FIRE-RATED ASSEMBLIES AND PENETRATIONS PER UL LISTED AND APPROVED DETAILS.

08100 DOORS FRAMES

1. SCOPE OF WORK: FURNISH FACTORY FINISHED ALUMINUM FRAMES AND/OR FACTORY PRIMED STEEL FRAMES QUALITY ASSURANCE:
- a. CONFORM TO REQUIREMENTS OF ANSI/SDI-100.
- b. ACCEPT FRAMES ON SITE IN MANUFACTURER'S PACKAGING. INSPECT FOR DAMAGE.
- c. COORDINATE THE WORK WITH FRAME OPENING CONSTRUCTION, DOOR AND HARDWARE INSTALLATION.
2. REGULATORY REQUIREMENTS:
- a. FIRE RATED FRAME CONSTRUCTION; CONFORM TO ASTM E152
- b. INSTALLED FRAME ASSEMBLY: CONFORM TO NFPA 80 FOR FIRE RATED CLASS SAME AS FIRE DOOR.
3. MATERIALS:
- a. PROVIDE DOOR FRAMES AND SIDELIGHTS AS INDICATED ON DRAWINGS.
- b. ACCEPTABLE PRODUCTS: BUILDING STANDARD TO MATCH EXISTING UNLESS NOTED OTHERWISE. SUBMIT FOR APPROVAL.
- c. PREPARE NON-RATED HM FRAMES FOR SILENCERS. PROVIDE THREE SINGLE SILENCERS FOR SINGLE DOORS ON STRIKE SIDE.
- d. PREPARE RATED FRAMES FOR SMOKE SEALS ON ALL FRAMES.

4. INSTALLATION

- b. INSTALL FRAMES IN ACCORDANCE WITH ANSI/SDI-100 AND DHI, AND NFPA 80 FOR FIRE RATED FRAMES.
- b. INSTALL PLUMB & SQUARE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED SPECIFICATIONS. SEE DRAWINGS FOR LAYOUT OF DOORS AND SIDELIGHTS.
- c. COORDINATE INSTALLATION OF FRAMES WITH THE INTERIOR DRYWALL PARTITION CONTRACTOR.
- d. ENSURE THAT FRAMES ARE SECURE AND RIGIDLY ANCHORED TO ADJACENT CONSTRUCTION.
- e. AFTER INSTALLATION, TOUCH UP SCRATCHED OR DAMAGED SURFACES. USE PRIMER IDENTICAL TO THAT USED FOR SHOP COAT.

081113. HOLLOW METAL DOORS AND FRAMES

PROVIDE: STEELCRAFT MU (MULTI USE) SERIES FRAME
14 GAUGE GALVANNEALED STEEL
DOUBLE RABBIT
SET-UP AND WELDED
FACTORY PREPARATION AND REINFORCEMENT FOR COMMERCIAL HARDWARE
1 HOUR FIRE RATED

EMA ANCHORS AT CMU AND STANTARD LOCK IN JAMB ANCHOR AT METAL STUD. COORDINATE W/ ARCHITECT AND MANUFACTURER PRIOR TO ORDER.

3 FIELD INSTALLED SILENCERS
SURFACE APPLIED WEATHER STRIP

STEELCRAFT L SERIES FLUSH STEEL DOOR
18 GAUGE GALVANNEALED STEEL
1-3/4" THICK
FACTORY PREPARATION AND REINFORCEMENTS FOR COMMERCIAL HARDWARE
OPTIONAL POLYSTYRENE CORE
¾" HOUR FIRE RATING

OR EQUAL PRODUCTS OF REPUBLIC, CURRIES

08211 FLUSH WOOD DOORS

2. GENERAL:

- a. SECTION INCLUDES: STANDARDS FOR MANUFACTURING AND INSTALLING FLUSH WOOD DOORS WITH OVERLAY FACING, FIRE RATED AND NON-RATED.
- b. COORDINATE THE WORK WITH DOOR OPENING CONSTRUCTION, DOOR FRAME AND DOOR HARDWARE INSTALLATION.
2. QUALITY ASSURANCE
- a. PROVIDE DOORS MEETING OR EXCEEDING THE MINIMUM STANDARDS AS SET FORTH BY THE FOLLOWING ORGANIZATIONS UNLESS STANDARDS ARE MODIFIED OR EXCEEDED BY THIS SPECIFICATION:
- i. ARCHITECTURAL WOODWORK INSTITUTE (AWI), ARCHITECTURAL WOOD WORK STANDARDS, SECTION 9, FOR CUSTOM GRADE.
- ii. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA).
- b. ALL DOORS SHALL BE THE PRODUCT OF THE SAME MANUFACTURER TO INSURE UNIFORMITY OF QUALITY AND APPEARANCE THROUGHOUT THE PROJECT.
- c. FIRE DOORS SHALL BEAR LABELS APPROVED BY UNDERWRITER LABORATORY OR WARNOCK-HERSEY INTERNATIONAL. ANY DISCREPANCIES BETWEEN THE DRAWINGS, THE PROCEEDS AND LIMITATIONS AS SET FORTH BY THESE TESTING AGENCIES SHALL BE BROUGHT TO THE DESIGN TEAM'S ATTENTION.
- d. PACKAGE, DELIVER AND STORE DOORS IN ACCORDANCE WITH WI REQUIREMENTS.
- e. PROTECT DOORS WITH MANUFACTURER'S PACKAGING. DO NOT STORE IN DAMP OR WET AREAS OR IN AREAS WHERE SUNLIGHT MIGHT BLEACH VENEER. SEAL TOP AND BOTTOM EDGES OF SITE FINISHED DOORS IF STORED MORE THAN ONE WEEK. BREAK SEAL

ON-SITE TO PERMIT VENTILATION.

3. REGULATORY REQUIREMENTS

- a. FIRE DOOR CONSTRUCTION: CONFORM TO NFPA AND UL REQUIREMENTS
- b. INSTALLED FIRE RATED DOOR ASSEMBLY: CONFORM TO NFPA 80 FOR FIRE RATED CLASS AS INDICATED.
4. WARRANTY
- a. INTERIOR SOLID-CORE FLUSH DOORS SHALL BE WARRANTED FOR (2) YEARS.
- b. INCLUDE COVERAGE FOR DELAMINATION OF FACING, WARPING BEYOND SPECIFIED INSTALLATION TOLERANCES, DEFECTIVE MATERIALS, AND TELEGRAPHING CORE CONSTRUCTION.
- c. INCLUDE ALL MATERIALS AND LABOR REQUIRED TO REPLACE DOORS, INCLUDING HANGING, AND REFINISHING.
5. PRODUCTS DOOR FACING
- a. PLASTIC LAMINATE FACING INTERIOR; FACTORY APPLIED; NEMA LD-3, GENERAL PURPOSE TYPE, 0.050 INCH THICK, MATT FINISH, PLASTIC LAMINATE PER DRAWINGS.
- b. HARDWOOD STILES WITH PLASTIC LAMINATE EDGES.
- c. FLUSH VENEER: ARCHITECTURAL GRADE FOR TRANSPARENT FINISH. SEE DRAWINGS FOR WOOD SPECIES AND STAIN/FINISH.
- d. FACING FOR PAINTED DOORS: PAINT GRADE BIRCH.

6. INSTALLATION

- a. INSTALL DOORS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND ACCORDING TO WI INSTALLATION REQUIREMENTS CONTAINED IN AWI ARCHITECTURAL WOODWORK STANDARDS, SECTION 26, AND TECHNICAL BULLETIN A20-R. IF AT VARIANCE, MOST STRINGENT SHALL APPLY.
- b. INSTALL FIRE RATED DOORS IN ACCORDANCE WITH NFPA 80 REQUIREMENTS.
- c. TRIM NON-RATED DOOR WIDTH BY CUTTING EQUALLY ON BOTH JAMB EDGES.
- d. TRIM FIRE DOOR HEIGHT AT BOTTOM EDGE ONLY, IN ACCORDANCE WITH FIRE RATING REQUIREMENTS.
- e. PILOT DRILL SCREW AND BOLT HOLES.
- f. MACHINE CUT FOR HARDWARE, CORE FOR HANDSETS AND CYLINDERS.
- g. COORDINATE INSTALLATION OF DOORS WITH INSTALLATION OF FRAMES AND HARDWARE.
7. COORDINATE INSTALLATION OF GLASS AND GLAZING.

08700 HARDWARE

1. GENERAL: THIS SPECIFICATION IS INTENDED TO INCLUDE ALL FEATURES NORMALLY REQUIRING HARDWARE.
- a. THE CONTRACTOR WILL BE REQUIRED TO FURNISH COMPLETELY ALL FINISH HARDWARE, WHETHER OR NOT SPECIFICALLY NOTED IN THE DRAWINGS AND SPECIFICATIONS.
- b. SUBMIT COMPLETE LIST OF ALL HARDWARE PROPOSED FOR USE, CROSS REFERENCE TO THE CONTRACT DOCUMENTS, SHOWING MANUFACTURER, MANUFACTURER'S NUMBER, AND FINISH TO ARTFUL ENVIRONMENT FOR APPROVAL PRIOR TO ORDER PRICING.
- c. SEE DRAWINGS FOR LOCATION AND TYPE OF HARDWARE.
- d. PROVIDE DOOR SILENCERS IN DOOR FRAMES, THREE PER SINGLE DOOR FRAME, FOUR PER DOUBLE FRAME.
- e. UPON INSTALLATION, HARDWARE SHALL BE ADJUSTED FOR PROPER OPERATION, INCLUDING, BUT NOT LIMITED TO, DOOR CLOSERS, LOOKSETS, PASSAGE SETS, FLUSH BOLTS AND COORDINATORS.
- f. KEYING SHALL BE AS DIRECTED BY THE FINISH HARDWARE SCHEDULE. UPON COMPLETION OF CONSTRUCTION, AS-BUILT KEYING INFORMATION SHALL BE FURNISHED IN ACCORDANCE WITH OWNER'S HARDWARE SCHEDULE.

09250 INTERIOR PARTITIONS

1. GENERAL: COMPLY WITH THE FOLLOWING STANDARDS:
- a. ANSI A97.1 "STANDARD SPECIFICATIONS FOR THE APPLICATION AND FINISHING OF WALLBOARD."
- b. VERIFY ALL DIMENSIONS SHOWN ON DRAWINGS BY TAKING FIELD MEASUREMENTS; PROPER FIT AND ATTACHMENT OF ALL PARTS IS REQUIRED. BEFORE COMMENCING WORK, CHECK ALL LINES AND LEVELS INDICATED AND SUCH OTHER WORK AS HAS BEEN COMPLETED. SHOULD THERE BE ANY DISCREPANCIES, IMMEDIATELY REPORT TO THE DESIGN TEAM FOR CORRECTION OR ADJUSTMENT. IN EVENT OF FAILURE TO DO SO, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTION OF ANY ERROR.
- c. CONTRACTORS SHALL NOT SCALE DRAWINGS. ALL DIMENSIONS ON DRAWINGS TAKE PRECEDENCE OVER SCALE. DISCREPANCIES IN DIMENSIONS SHALL BE BROUGHT TO THE ATTENTION OF ARTFUL ENVIRONMENT PRIOR TO CONSTRUCTION.
- d. MATERIALS AND ASSEMBLIES USED IN FIRE-RESISTIVE CONSTRUCTION SHALL MEET APPLICABLE REQUIREMENTS OF UNDERWRITERS, LABORATORIES AND THE GOVERNING AUTHORITIES.
- e. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. TAPE JOINTS AND INSTALL CASING BEADS, CORNER BEADS, ETC., AS SHOWN ON DRAWINGS AND AS REQUIRED FOR A NEAT, FINISHED, APPEARANCE.
- f. TEXTURE: PER DRAWINGS.

1. MATERIALS:

- a. GYPSUM BOARD:
- NON-FIRE-RATED CONSTRUCTION: 5/8" GYPSUM BOARD AS REQUIRED UNLESS OTHERWISE INDICATED.
 - FIRE-RATED CONSTRUCTION: 5/8" USG FIRECODE "TYPE X" GYPSUM BOARD.
 - MOISTURE RESISTANT: INSTALL MOISTURE RESISTANT GYPSUM BOARD IN AREAS EXPOSED TO MOISTURE.
- b. STUDS AND RUNNERS: DIETRICH "ULTRASTEEL", ICC-ES ESR 1977, ASTM C645, 25 GAUGE X 3-5/8", UNLESS OTHERWISE INDICATED. USE STUD GAUGES AS INDICATED ON STUD SCHEDULE.
- c. MISCELLANEOUS MATERIALS: AS RECOMMENDED BY SYSTEM MANUFACTURER AND REFERENCE STANDARDS.
2. INSTALLATION OF METAL STUDS AND GYPSUM DRYWALL:
- a. LIGHT GAUGE METAL FRAMING WILL BE INSTALLED IN STRICT CONFORMANCE WITH ICI-2457 OR ESR 1166P REPORT.
- b. FINISH: PER DRAWINGS.
- c. ACCEPTANCE OF CONDITIONS: EXAMINE CONDITIONS UNDER WHICH WORK WILL BE INSTALLED. SUBMIT WRITTEN NOTIFICATIONS OF DEFICIENCIES DETRIMENTAL TO PROPER OR TIMELY INSTALLATION AND DO NOT PROCEED UNTIL CORRECTED.
- d. COORDINATION: COORDINATE WORK OF THIS SECTION WITH CEILING CONTRACTOR, CABINET WORK CONTRACTOR, AND OTHERS.

3. INSTALLATION/PARTITIONS: INSTALL PARTITIONS IN A RIGID AND SUBSTANTIAL MANNER.
- a. APPLY BOARDS HORIZONTALLY FROM FLOOR TO CEILING.
- b. INSTALL TAPE AND CORNER BEADS AT CORNERS AND JOINTS SO THAT JOINTS OR IRREGULARITIES WILL BE INVISIBLE IN THE FINISHED WALL.
- c. INSTALL BARRIER SO THAT THE FINISHED INSTALLATION WILL BE SEALED FROM LIGHT AND SOUND. PAY PARTICULAR ATTENTION TO CONDITIONS WHERE PARTITION WORK MEETS OTHER MATERIALS.
- d. FINISH SHEET ROCK COMPLETELY TO FLOOR TO INSURE A SOLID WALL BASE INSTALLATION.
- e. CENTER WALLS ON WINDOW MULLIONS WHERE SHOWN ON PLAN.
- f. ADJUST PARTITION THICKNESS AND CAVITY FOR INTERNAL INCLUSIONS, SUCH AS PLUMBING AND FOR CORRECT INSTALLATION OF FIXTURES, PANELS, BOXES, ETC..

09300 CERAMIC/STONE TILE

1. GENERAL SCOPE OF WORK: PROVIDE AND INSTALL CERAMIC/STONE FLOOR AND WALL TILE AS SPECIFIED ON PLANS.
- a. FLOOR TILE INSTALLATION: PER CERAMIC TILE COUNCIL OF AMERICA, THIN SET, METHOD F-122-86 OR FULL MORTAR BED INSTALLATION PER DRAWINGS.
- b. INSTALLATION PATTERN: CONFIRM MANUFACTURERS RECOMMENDED INSTALLATION PATTERN AND NOTIFY DESIGN TEAM OF CONFLICT PRIOR TO INSTALLATION.
- c. FURNISH TRIM SHAPES AS REQUIRED; ANGLES, CORNERS, CAPS, ETC. FOR WALL OR COUNTER TILE.
- d. SIZE, BASE, AND COLOR: PER FINISH SCHEDULE.
- e. FLOOR TILE: CERAMIC TILE, PORCELAIN TYPE, SLIP RESISTANT.
- f. PROVIDE SCHLUTER-SYSTEMS FOR: TRANSITIONS AT EDGES

WHERE ADJACENT FLOOR FINISHES ARE DISSIMILAR, AT TOP OF WALL TILE OR BASE, OR AS COVE WHERE TRIM IF SHAPES ARE NOT AVAILABLE. SEE DRAWINGS OR CONSULT DESIGN TEAM.

09512 ACOUSTICAL TILE CEILINGS

1. GENERAL:
- a. ACOUSTICAL CEILING UNIT STANDARD: ASTM E 1264.
- b. ACOUSTICAL SUSPENSION SYSTEM STANDARD: ASTM C 635 AND ASTM C 636 FOR MATERIALS.
- c. ACOUSTICAL SUSPENSION SYSTEM STANDARD: ASCE 7-05 (MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES) FOR INSTALLATION.
- d. SURFACE BURNING CHARACTERISTICS: 25 OR LESS FOR FLAME SPREAD, 50 OR LESS FOR SMOKE DEVELOPED, PER ASTM E 84.
- e. FIRE-RESISTANCE-RATINGS: AS DETERMINED PER ASTM E 119 AND AS INDICATED BY REFERENCE TO DESIGN DESIGNATIONS IN UL "FIRE RESISTANCE DIRECTORY".
- f. DIRECT-HUNG DOUBLE-WEB STEEL SUSPENSION SYSTEM: RUNNERS ROLL-FORMED FROM AND CAPPED WITH PREPRESSED OR ELECTROLYTIC ZINC-COATED COLD-ROLLED STEEL SHEET.
- g. STRUCTURAL CLASSIFICATION: HEAVY-DUTY SYSTEM, TYP. U.O.N.
- h. ACCESS: UPWARD, WITH SIZES FOR MODULES FORMED BY MAIN RUNNERS AND CROSS TEES FOR INITIAL DIRECT ACCESS OPENINGS THROUGHOUT THE CEILING.
2. MATERIALS: SUBJECT TO COMPLIANCE WITH DRAWING REQUIREMENTS, OR TO MATCH EXISTING.
3. EXECUTION:
- a. INSTALL ACOUSTICAL CEILING SYSTEMS TO COMPLY WITH INSTALLATION STANDARD REFERENCED BELOW, PER MANUFACTURER'S INSTRUCTIONS, AND CISCA "CEILING SYSTEMS HANDBOOK."
- b. LAYOUT: SEE REFLECTED CEILING PLAN. BALANCE CEILING BORDERS ON OPPOSITE SIDES, USING MORE THAN HALF-WIDTH ACOUSTICAL UNITS, UNLESS OTHERWISE INDICATED.
- c. PATTERN DIRECTION: ONE-WAY, ALIGN JOINTS.
- d. SUSPENSION SYSTEM: SECURE TO BUILDING STRUCTURE, WITH HANGERS SPACED 4'-0" ALONG SUPPORTED MEMBERS, U.O.N.
- e. ALL NEW AND EXISTING CEILING SYSTEM IN AREAS OF WORK SHALL BE MODIFIED TO HAVE SEISMIC BRACING AS REQUIRED BY CURRENT APPLICABLE CODES.
- f. EDGE TRIM: SECURE TO STUDS SPACED 24 INCHES O.C. MITER CORNER JOINTS.
- g. COPE EXPOSED EDGES OF INTERSECTING EXPOSED SUSPENSION MEMBERS TO PRODUCE FLUSH INTERSECTIONS.

09900 PAINTING

1. GENERAL:
- a. SCOPE OF WORK: PAINTING OF PARTITIONS, CEILINGS/SOFFITS, DOORS, AND FRAMES.
- b. COLORS: REFER TO FINISH PLANS FOR COLOR AND FINISH, AND AS NOTED HEREIN.
- i. DOOR FRAMES: OPAQUE FINISH, SEMI-GLOSS PAINT, COLOR AS SCHEDULED.
- ii. SURFACES VISIBLE THROUGH GRILLES, ETC.: FLAT BLACK, UNLESS OTHERWISE INDICATED.
2. APPLICATION:
- a. SURFACE PREPARATION AND PAINT APPLICATION: DO NOT OPEN CONTAINER UNTIL REQUIRED FOR USE. THOROUGHLY STIR PAINT AND KEEP AT UNIFORM CONSISTENCY DURING APPLICATION. DO NOT THIN PRIMERS IN EXCESS OF MANUFACTURER'S PRINTED DIRECTIONS. DO NOT THIN BODY AND FINISH COATS. PERFORM WORK IN WORKMANLIKE MANNER AND LEAVE FINISHED SURFACES FREE FROM DRIPS, WAVES, LAPS, HOLIDAYS AND BRUSH MARKS.
- b. OBSTRUCTION: REMOVE OR PROTECT HARDWARE ACCESSORIES, PLATES, LIGHT FIXTURES, AND SIMILAR ITEMS INSTALLED PRIOR TO PAINTING. EQUIPMENT ADJACENT TO WALLS TO BE DISCONNECTED BY SKILLED TRADES WORKMEN AND MOVED TO ALLOW PAINTING OF WALL SURFACES. REPLACE AND RECONNECT AFTER COMPLETION OF PAINTING.
- c. SURFACES: REMOVE SCALE, DIRT, DUST, RUST, WAX, GREASE STAINS, EFFLORESCENCE, AND OTHER FOREIGN MATTER. PLASTER WORK IS TO BE FREE FROM LOOSE PLASTER AND SURFACE IRREGULARITIES BEFORE APPLYING PAINT. APPLICATION OF PRIME COAT SHALL REPRESENT ACCEPTANCE BY SUBCONTRACTOR FOR CONDITION OF SUBSTRATE. CORRECT DEFECTS AND DEFICIENCIES IN SURFACES, WHICH MAY ADVERSELY AFFECT WORK OF THIS SECTION.
- d. APPLICATION: APPLY PAINT UNDER DRY AND DUST FREE CONDITIONS. APPLY PRIME COAT, BODY AND FINISH COATS BY BRUSH, ROLLER, OR SPRAY AS APPROVED. SAND INTERIOR MILLWORK FINISHES BETWEEN COATS.
- e. PROTECTION: PROPERLY PROTECT FLOOR AND OTHER ADJACENT WORK BY DROP CLOTHS OR OTHER ACCEPTABLE COVERING DURING PAINTING OPERATION.
- f. WOODWORK: SAND WOODWORK WHERE REQUIRED BEFORE APPLICATION OF PRIMER. SET AND FILL NAIL HOLES, CRACKS, AND OTHER DEPRESSIONS FLUSH WITH PUTTY FOR SMOOTH FINISH. PERMIT PUTTY TO DRY AND SAND SMOOTH BEFORE APPLYING BODY COAT. PROCEED WITH PAINTING WHEN WOOD AND FILLER IS SATISFACTORILY DRY. PRIME WOODWORK TO RECEIVE PAINTED FINISH ON EXPOSED SURFACES. BACK-PRIME WOODWORK INSTALLED AGAINST PLASTER OR CONCRETE.
- g. ALL FINISHES SHALL BE SUPPLIED AS FACTORY MIXED AND SHALL BE DELIVERED IN FACTORY MARKED CONTAINERS.
- h. APPLY ALL FINISHES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. USE APPLICATORS AND TECHNIQUES BEST SUITED FOR MATERIALS, SURFACES, AND FINISHES.
- i. APPLY MATERIAL AT NOT LESS THAN THE MANUFACTURER'S SPREADING RATE, TO PROVIDE A TOTAL FILM THICKNESS OF NOT LESS THAN 4.0 MILS.
- j. SAND LIGHTLY AND DUST BETWEEN COATS.
- k. ALL WOOD TRIM SHALL BE BACK PRIMED.
- l. OMIT PRIMER COAT ON SURFACES WHICH HAVE BEEN SHOP PRIMED.
- m. APPLY SEALER COAT ONLY TO WALLS TO RECEIVE WALL COVERING.
3. MATERIALS: PAINT COLORS ARE TO BE AS SHOWN ON DRAWINGS.
- a. FINISH SYSTEM: EGGSHELL ENAMEL, (GYPSUM WALLBOARD SUBSTRATE):
- 1 COAT PRIMER (NON-PVA)
 - 1 COAT ALKYD WALL PRIMER-SEALER.
 - 1 OR 2 COATS EGGSHELL ENAMEL AS REQUIRED FOR COMPLETE COVERAGE.
- (BUILDING STANDARD FOR WALLS UNLESS OTHERWISE NOTED.)
- b. EPOXY (GYPSUM WALLBOARD SUBSTRATE):
- 1 COAT 320-64 SYNTHETIC PRIMER.
 - 1 COAT MIRAPLATE EPOXY.
 - c. FLAT LATEX (GYPSUM WALLBOARD SUBSTRATE):
 - 1 OR 2 COATS FLAT LATEX AS REQUIRED FOR COMPLETE COVERAGE.
 - d. SEMIGLOSS STIPPLE (GYPSUM WALLBOARD SUBSTRATE):
 - 1 COAT PRIMER (NON-PVA)
 - 1 COAT ALKYD WALL PRIMER SEALER.
 - 1 COAT ALKYD SEMI-GLOSS STIPPLE.
 - 1 COAT ALKYD ENAMEL (PRIMED OR PREVIOUSLY PAINTED WOOD OR METAL SUBSTRATE, INTERIORS ONLY).
 - 1 COAT ENAMEL UNDERCOAT.
 - 1 OR 2 COATS SEMI-GLOSS ENAMEL AS NECESSARY TO COVER.
 - f. SEMI-GLOSS ENAMEL (EXTERIOR PRIMED OR PREVIOUSLY PAINTED FERROUS METAL SUBSTRATE):

- 1 COAT 1710 KD-GUARD RED OXIDE PRIMER.
- 1 OR 2 COATS ALKYD SEMI-GLOSS EXTERIOR ENAMEL AS NECESSARY FOR COMPLETE COVERAGE.

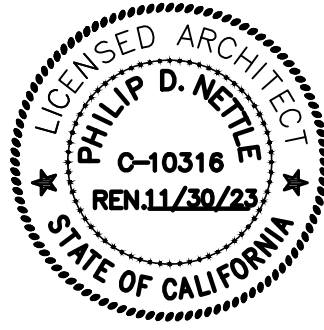
10520 FIRE EXTINGUISHERS AND CABINETS

1. PRODUCTS:
- a. EXCEPT AS OTHERWISE INDICATED PROVIDE LARSENS MANUFACTURING CO. STEEL CABINET MODEL #2409-SR WITH FULL PANEL DOOR, SQUARE TRIM, WHITE FINISH, NO LETTERING, OR AS INDICATED ON DRAWINGS.
2. MATERIALS:
- a. AT EACH FIRE EXTINGUISHER CABINET PROVIDE ONE MULTIPURPOSE CHEMICAL FIRE EXTINGUISHER WITH U.L. RATING OF 2A-10B:C. LARSENS MANUFACTURING MODEL "MP5" OR EQUAL AS APPROVED IN ADVANCE BY DESIGN TEAM.
- b. SERVICE CHARGE AND TAG EACH FIRE EXTINGUISHER NOT MORE THAN FIVE (5) CALENDAR DAYS PRIOR TO THE DATE OF SUBSTANTIAL COMPLETION.
3. INSTALLATION:
- a. INSTALL EXTINGUISHER CABINETS IN ACCORDANCE WITH APPROVED MANUFACTURER'S RECOMMENDATION. USE MACHINE SCREWS OR BOLTS TO METAL BACKING. TOGGLE BOLTS WILL NOT BE ACCEPTED.



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Phillip D. Nettle

MORGAN HILL POLICE
DEPARTMENT EXPANSION

16200 VINEYARD BLVD.
MORGAN HILL, CA 95037

10/06/2023 SUBMIT FOR PLAN CHECK

DRAWING TITLE:

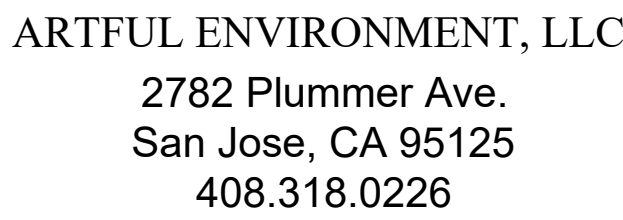
SPECIFICATIONS

DRAWING NO.:

A7.1

SCALE:

AS NOTED



16200 VINEYARD BLVD.
MORGAN HILL, CA 95037

REVISION:

DRAWING TITLE:

MECHANICAL SPECIFICATIONS LEGEND AND GENERAL NOTES


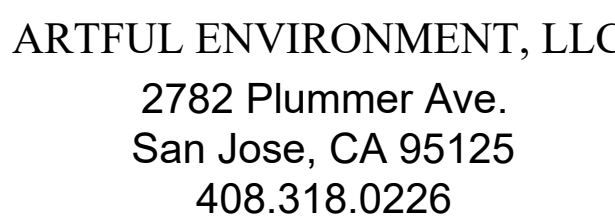
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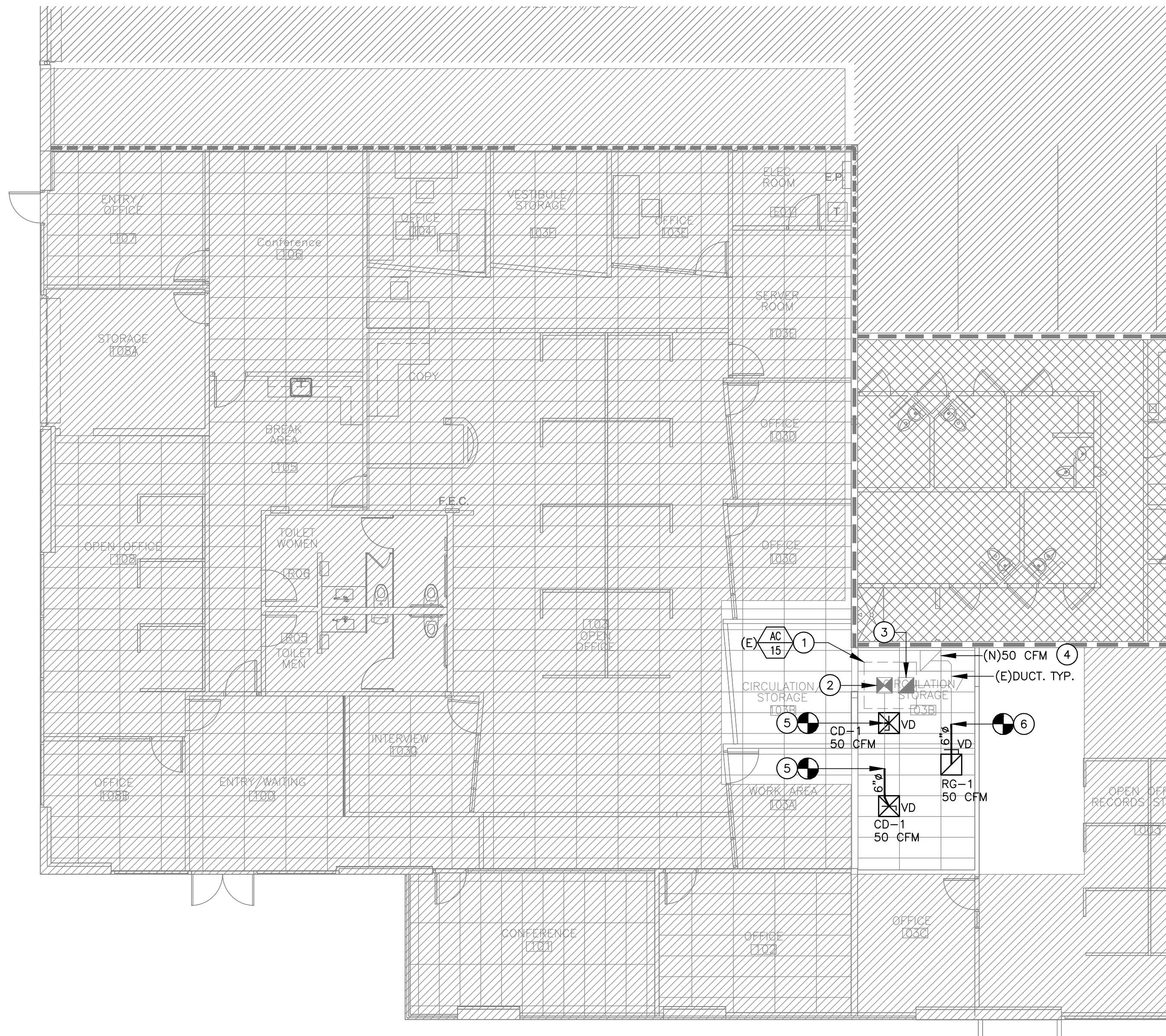


DRAWING TITLE:

DRAWING NO.

SCALE: AS NOTED

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Mechanical Systems			
CERTIFICATE OF COMPLIANCE		NRCC-MCH-E	
Project Name: MORGAN HILL POLICE DEPARTMENT EXPANSION		Report Page: (Page 3 of 7)	
		Date Prepared: 2023-07-05T20:35:06-04:00	
G. PUMPS			
This section does not apply to this project.			
H. FAN SYSTEMS & AIR ECONOMIZERS			
This section does not apply to this project.			
I. SYSTEM CONTROLS			
This section does not apply to this project.			
J. VENTILATION AND INDOOR AIR QUALITY			
This table is used to demonstrate compliance with mandatory ventilation requirements in 120.1.120.2(e)(3B 140.4(g) and 140.4(g) for all nonresidential and hotel/motel and 140.4(g)(3B)(1)160.2, 160.3(a)(30, 170.2(a)(4N, 170.2(a)(4O for high-rise residential occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor-ventilation rates and airflow may be shown on the plans or the calculations can be presented in a spreadsheet.			
01	<input checked="" type="checkbox"/>	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.	
02	<input type="checkbox"/>	Check this box if the project included Nonresidential, Hotel/Motel Spaces or Multifamily Common Use Spaces	
03	<input type="checkbox"/>	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per 120.1(c)(2).	
K. TERMINAL BOX CONTROLS			
This section does not apply to this project.			
L. DISTRIBUTION (DUCTWORK AND PIPING)			
This table is used to show compliance with mandatory pipe insulation requirements found in 120.3 and mandatory requirements found in 120.4(g) for duct sealing.			
01	<input type="checkbox"/>	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service. Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space shall have a Class I or Class II vapor retarder. All penetrations and joints of which shall be sealed.	
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance		Generated Date/Time: Documentation Software: Energy Code Ace	
		Report Version: 2022.0.000 Compliance ID: 118665-0723-0002	
		Schema Version: rev 20220101 Report Generated: 2023-07-05 17:35:11	
STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Mechanical Systems		NRCC-MCH-E	
CERTIFICATE OF COMPLIANCE		(Page 5 of 7)	
Project Name: MORGAN HILL POLICE DEPARTMENT EXPANSION		Report Page:	
		Date Prepared: 2023-07-05T20:35:06-04:00	
N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION			
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCC/			
Form/Title			
NRCC-MCH-01-E - Must be submitted for all buildings			
O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE			
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/			
Form/Title			
NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.			
Systems/Spaces To Be Field Verified			
P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION			
There are no NRCV forms required for this project.			
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance		Generated Date/Time: Documentation Software: Energy Code Ace	
		Report Version: 2022.0.000 Compliance ID: 118665-0723-0002	
		Schema Version: rev 20220101 Report Generated: 2023-07-05 17:35:11	



1 MECHANICAL FLOOR PLAN
M2.1 SCALE: 1/8"=1'-0"

GENERAL NOTES

- A. CONTRACTOR SHALL VERIFY IN THE FIELD FOR EXACT LOCATION OF ALL DUCTING/PIPING AND UTILITIES PRIOR TO START OF WORK. IN THE EVENT OF ANY DISCREPANCIES OR POTENTIAL CONFLICTS, NOTIFY THE ARCHITECT AND ENGINEER IN WRITING PRIOR TO START OF WORK.
- B. ALL DUCTING/PIPING LOCATIONS ARE DIAGRAMMATIC. CONTRACTOR SHALL COORDINATE WITH ALL TRADES AND OWNER'S REPRESENTATIVE AND VERIFY EXACT ROUTING PRIOR TO START OF WORK.
- C. FINAL THERMOSTAT/REMOTE SENSOR SHALL BE COORDINATED WITH THE ARCHITECT AND GENERAL CONTRACTOR FOR APPROVAL PRIOR TO INSTALLATION.
- D. CONTRACTOR SHALL PERFORM AIR BALANCING AS PART OF TESTING AND COMMISSIONING ACTIVITIES OF ALL HVAC SYSTEM AND EQUIPMENT.
- E. PROVIDE YOUNG REGULATOR BALANCING DAMPER AS NEEDED FOR THE DIFFUSER THAT IS NOT ACCESSIBLE FOR BALANCING.
- F. CONTRACTOR TO PROVIDE ACCESS PANEL TO ALL MECHANICAL EQUIPMENTS FOR MAINTENANCE IF NOT READILY ACCESSIBLE. COORDINATE WITH ARCHITECT.
- G. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VISIT THE SITE AND SURVEY EXTENT OF EXISTING HVAC SYSTEM DEMOLITION AND INCLUDE IN BID.

KEY NOTES

- 1 EXISTING AC UNIT LOCATED ABOVE ROOF TO REMAIN. CONTRACTOR TO VERIFY IN THE FIELD THE EXACT SIZE, LOCATION AND CONDITION. INFORM OWNER REPRESENTATIVE OR ENGINEER OF RECORD IF THE UNIT IS NOT WORKING PROPERLY.
- 2 EXISTING SUPPLY AIR DUCT RISER TO REMAIN. CONTRACTOR TO VERIFY IN THE FIELD THE EXACT SIZE, LOCATION AND CONDITION. REPAIR/REPLACE IF NECESSARY.
- 3 EXISTING RETURN AIR DUCT RISER TO REMAIN. CONTRACTOR TO VERIFY IN THE FIELD THE EXACT SIZE, LOCATION AND CONDITION. REPAIR/REPLACE IF NECESSARY.
- 4 CONTRACTOR TO BALANCE THE EXISTING AND NEW DIFFUSERS AS PER THE AIRFLOW SHOWN ON THE PLAN.
- 5 CONNECT NEW SUPPLY DUCT TO EXISTING MAIN SUPPLY DUCT. CONTRACTOR SHALL FIELD VERIFY P.O.C.
- 6 CONNECT NEW RETURN DUCT TO EXISTING MAIN SUPPLY DUCT. CONTRACTOR SHALL FIELD VERIFY P.O.C.

EXISTING PACKAGED ROOFTOP AIR CONDITIONERS SCHEDULE

MARK	MANUF. & MODEL	SERVICE	NOMINAL TONNAGE	CFM	MIN O.A. (CFM)	E.S.P. (IN.)	ELECTRICAL			TOTAL COOLING CAPACITY(MBH)	TOTAL HEATING CAPACITY(MBH)	SEER/EER	AFUE	REMARKS
							V. / PH. / HZ.	MOCP	MCA					
(E) 15	CARRIER 48HJE007---651-- (EXISTING UNIT)	AS SHOWN ON PLAN	6.0	2,100	--	--	460/3/60	--	--	74,000	--	--/11.0	81%	1

1. EXISTING AC UNIT TO REMAIN. CONTRACTOR TO VERIFY IN THE FIELD THE EXACT SIZE, LOCATION AND CONDITION. INFORM OWNER REPRESENTATIVE OR ENGINEER OF RECORD IF THE UNIT IS NOT WORKING PROPERLY.

AIR DISTRIBUTION SCHEDULE

MARK	MANUFACTURER & MODEL OR EQUAL	SERVICE	TYPE	FINISH	MODULE SIZE	NECK SIZE	REMARKS
CD-1	TITUS TMS/TMS-AA OR APPROVED EQUAL	SUPPLY	CEILING	WHITE	24"x24"	8"ø	1
RG-1	TITUS PAR OR APPROVED EQUAL	SUPPLY	CEILING	WHITE	24"x24"	8"ø	1

1. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

DUCT MATERIAL SCHEDULE

(FOR LOW PRESSURE DUCTWORKS W/S.P. LESS THAN 2" W.G., LESS THAN 2000 FPM

RECTANGULAR			
DIMENSION:	4"-18"	19"-30"	31"-54"
GAUGE:	26 ga.	24 ga.	22 ga.
ROUND			
DIMENSION:	3"-14"	15"-23"	24"-37"
GAUGE:	26 ga.	24 ga.	22 ga.

DUCT CONSTRUCTION SHALL COMPLY WITH CMC 2022, SMACNA METAL AND FLEXIBLE DUCT CONSTRUCTION STANDARD AND UL 181, WHICHEVER IS THE MOST STRINGENT SHALL PREVAIL.

HEATING AND COOLING DUCT SYSTEM

AIRFLOW CFM	SUPPLY OR RETURN MAIN DUCT SIZE		TABLE A
200	8" RD	OR	6" X 8"
300	9" RD	OR	8" X 8"
400	10" RD	OR	10" X 8"
500	11" RD	OR	14" X 8"
600	12" RD	OR	16" X 8"
700	13" RD	OR	18" X 8"
800	14" RD	OR	22" X 8"
1000	16" RD	OR	28" X 8"
1200	17" RD	OR	32" X 8"
1400	18" RD	OR	28" X 10"
1600	20" RD	OR	32" X 10"
1800	21" RD	OR	30" X 12"
2000	22" RD	OR	34" X 12"

AIRFLOW CFM	SUPPLY BRANCH DUCT SIZE		TABLE B
80	5" RD		
120	6" RD	OR	3-1/2" X 10"
160	7" RD		

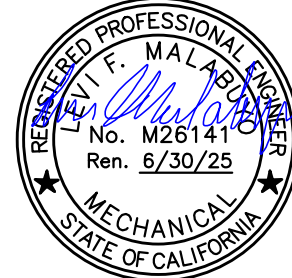
MINIMUM OUTSIDE AIR CALCULATION

ROOM NAME	AREA	MIN. CFM PER AREA	MIN. CFM BY AREA	NUMBER OF PEOPLE	CFM PER PERSON	MIN. CFM BY OCCUPANT	MIN. CFM BY ROOM
CIRCULATION/STORAGE (03B)	241	0.15	36.15	3	15	45	45
TOTAL = 45 CFM							



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MORGAN HILL POLICE
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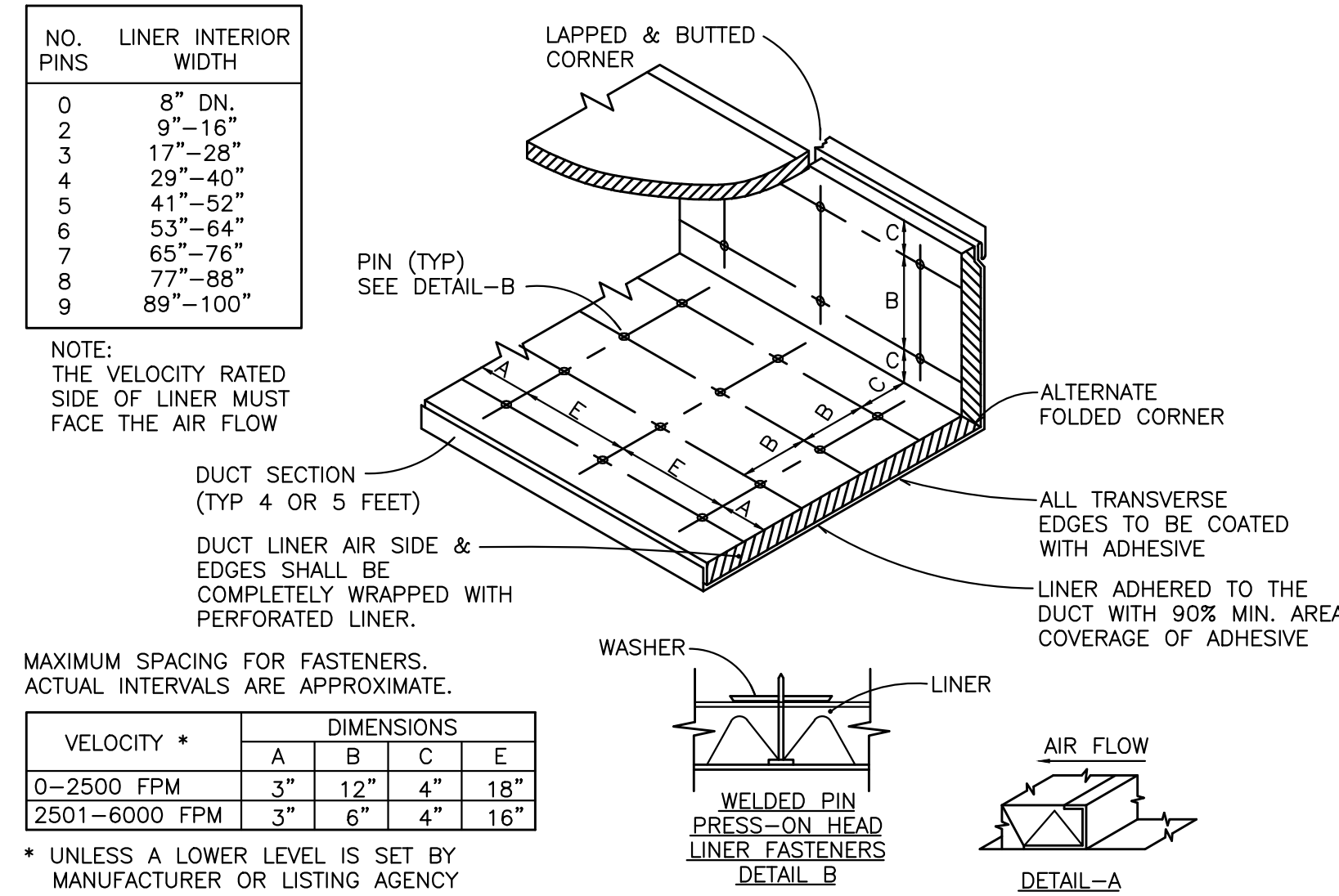
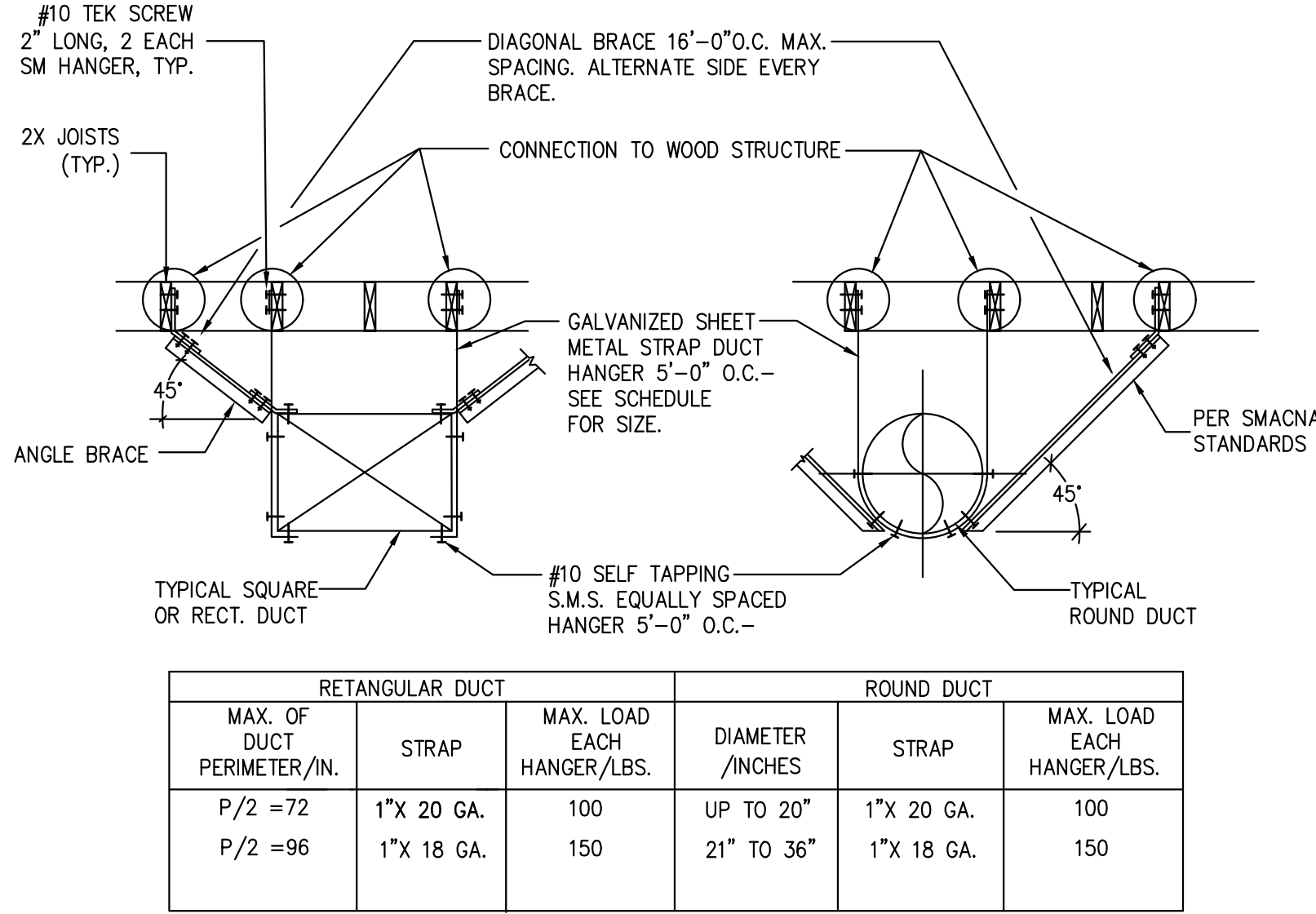
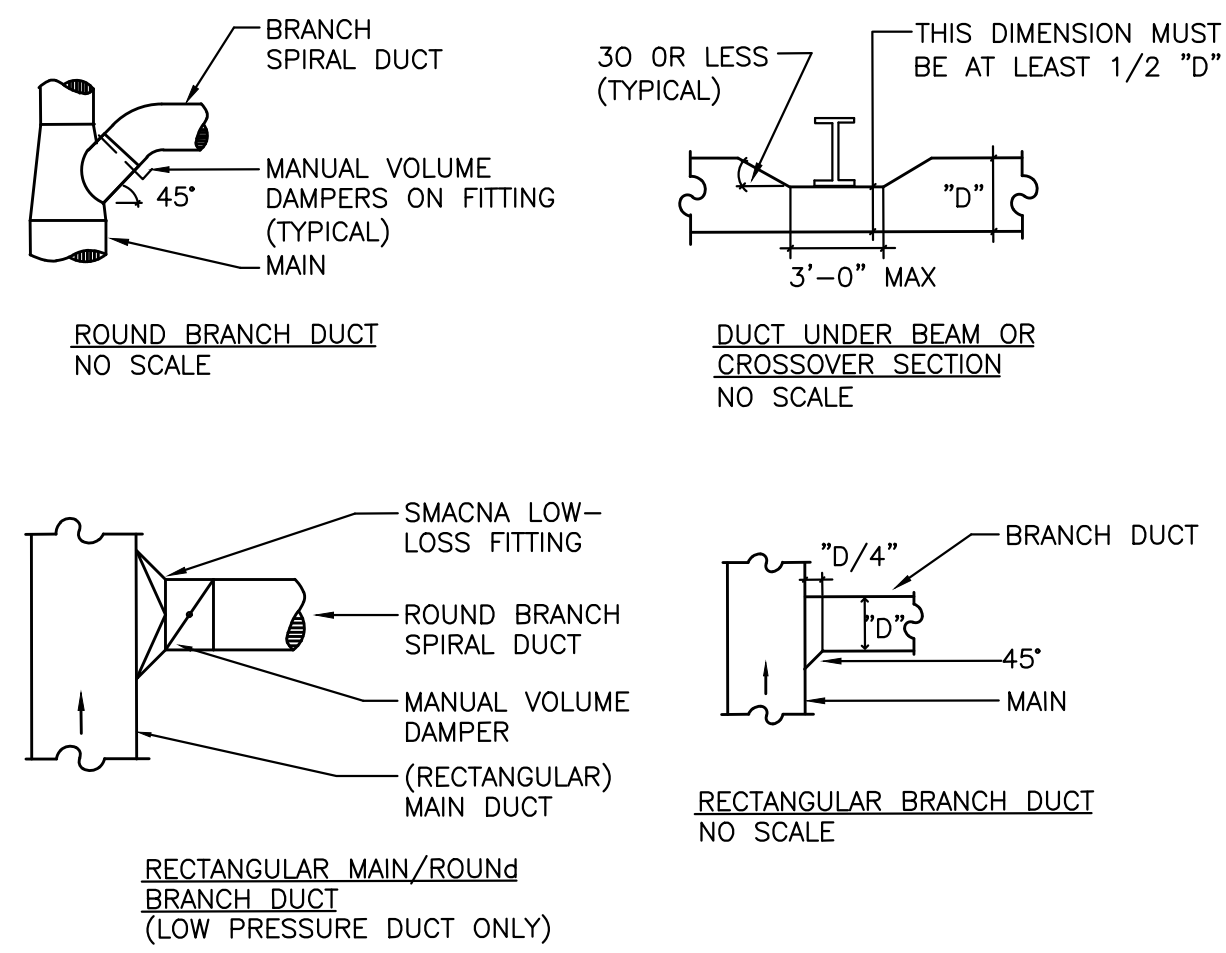
DRAWING TITLE:

MECHANICAL
FLOOR PLAN &
SCHEDULES

DRAWING NO.:

M2.1

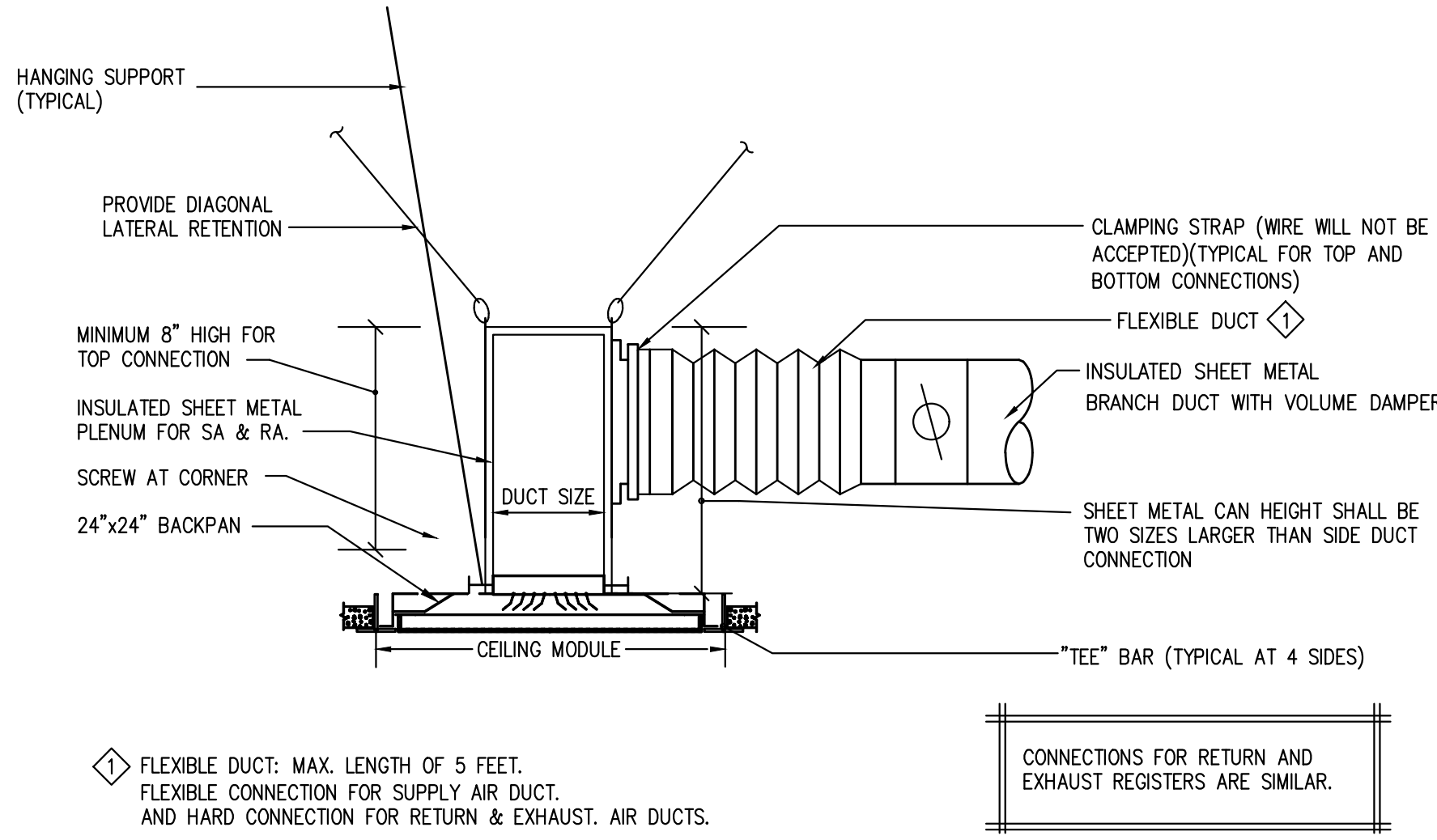
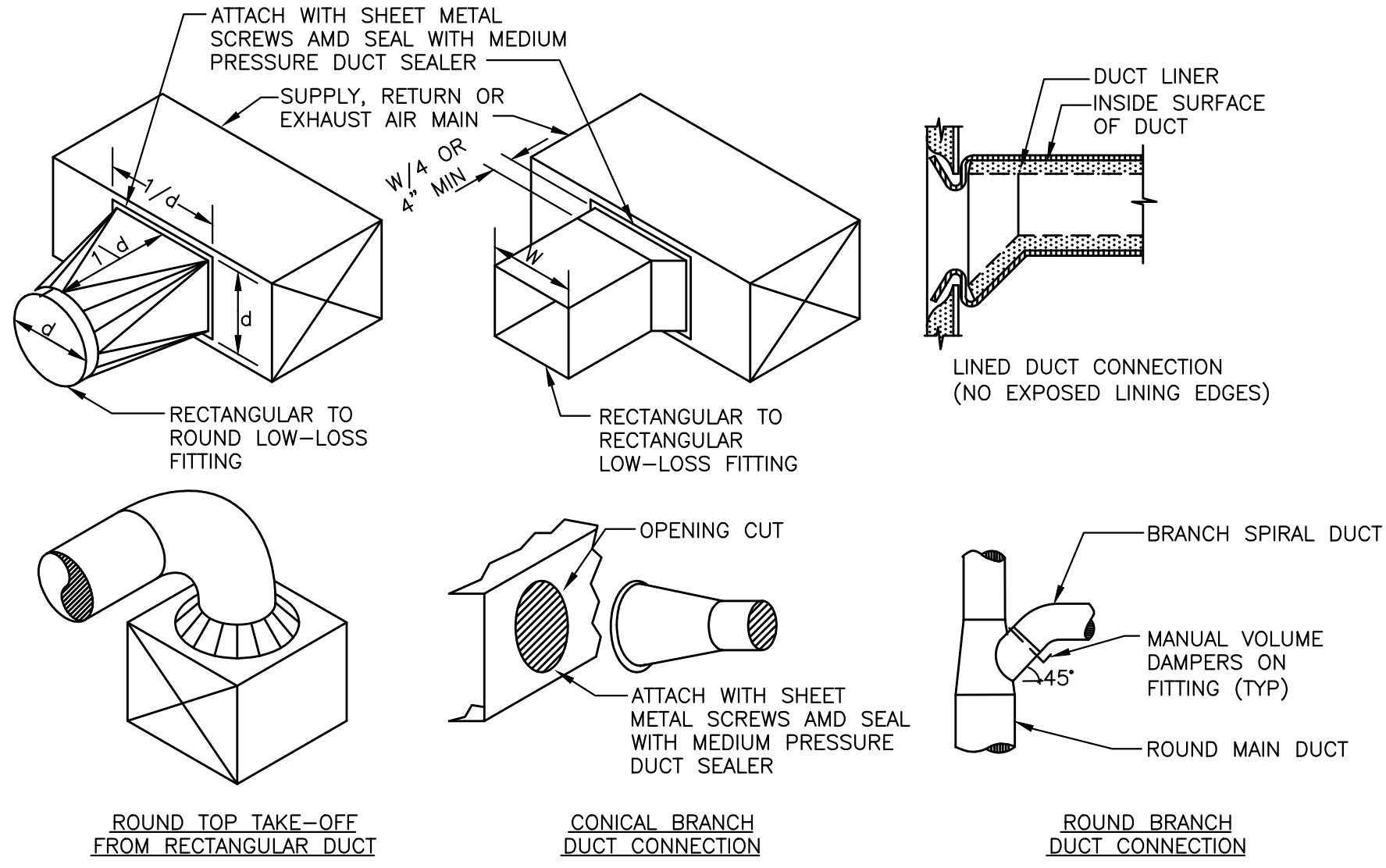
SCALE: AS NOTED



1 SCALE NONE DUCT INSTALLATION DETAIL

2 SCALE NONE DUCT SUPPORT DETAIL

3 SCALE NONE DUCT LINING DETAIL



4 SCALE NONE BRANCH DUCTWORK CONNECTIONS

5 SCALE NONE CEILING DIFFUSER DETAIL

SCALE NONE



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10/06/2023 SUBMIT FOR PLAN CHECK
REVISION:

DRAWING TITLE:

MECHANICAL
DETAILS

DRAWING NO.:

M3.1

SCALE: AS NOTED

SYMBOLS AND ABBREVIATIONS

SYMBOLS AND ABBREVIATIONS LISTED FOR GENERAL USE.
DISREGARD SYMBOLS THAT DO NOT APPEAR ON THE DRAWINGS.

LIGHT FIXTURES:

NUMERALS ADJACENT TO SYMBOL INDICATES CIRCUIT.
LOWER CASE LETTERS ADJACENT TO SYMBOL INDICATES CONTROL FROM CORRESPONDING SWITCH.

- CEILING SURFACE OR PENDANT LED, FLUORESCENT OR H.I.D. AND OUTLET BOX.
- ◐ WALL MOUNT LED OR H.I.D. AND OUTLET BOX.
- ◻ CEILING RECESSED MOUNT INCANDESCENT, FLUORESCENT OR H.I.D. AND OUTLET BOX.
- ◯ FLUORESCENT OR LED AND OUTLET BOX. (NOT DOWNLIGHT)
- ◻ FLUORESCENT OR LED, (NOT DOWNLIGHT) WIRED THROUGH FROM ADJACENT FIXTURE OR FLEX CONNECTION.
- ◻ SHADING INDICATES FIXTURE CONNECTED TO EMERGENCY POWER. HALF SHADING INDICATES FIXTURE CONNECTED TO BOTH EMERGENCY AND NORMAL POWER.
- BARE LAMP FLUORESCENT OR LED STRIP AND OUTLET BOX.
- ↗ ↘ EXIT FIXTURE CEILING OR WALL MOUNTED. PROVIDE DIRECTIONAL ARROWS AS INDICATED.
- ↗ ↘ SAME AS ABOVE AND CONNECTED TO EMERGENCY POWER SOURCE.
- ⊙ POST TOP LUMINARIE WITH POLE AND BASE.

RECEPTACLES AND OUTLETS:

ALL ALTERED OR NEWLY INSTALLED ELECTRICAL OUTLETS SHALL BE ACCESSIBLE. THE CENTER OF ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30 AMPERES OR LESS SHALL BE INSTALLED NOT MORE THAN 48 INCHES ABOVE THE FINISH FLOOR OR WORKING PLATFORM, PER CBC 1117B.6 (5.5.2).

- WALL MOUNTED AT +18" A.F.F., U.O.N.
- NUMERALS ADJACENT TO SYMBOL INDICATES CIRCUIT.
- "DECORATOR" STYLE, U.O.N.
- DEVICE & PLATE COLOR AS SELECTED BY THE ARCHITECT OR OWNER.

- 20 AMP, 125 VAC DUPLEX RECEPTACLE; P & S #CR20, LEVITON, AH, HUBBELL OR APPROVED EQUAL.
- 15 AMP, 125 VAC DUPLEX RECEPTACLE; P & S #CR15, LEVITON, AH, HUBBELL OR APPROVED EQUAL.
- 20 AMP, 125 VAC FOURPLEX RECEPTACLE; (2) P & S #CR20 IN COMMON BOX, LEVITON, AH, HUBBELL OR APPROVED EQUAL.
- 20 AMP, 125 VAC COMBINATION DUPLEX RECEPTACLE AND GROUND FAULT INTERRUPTER. P & S #PT2097, LEVITON, AH, HUBBELL OR APPROVED EQUAL.
- SAME AS ABOVE, EXCEPT MOUNT HORIZONTALLY ABOVE COUNTER BACKSPLASH.
- SAME AS ABOVE, EXCEPT MOUNT HORIZONTALLY ABOVE COUNTER BACKSPLASH.
- 20 AMP, 125 VAC FLOOR MOUNTED DUPLEX RECEPTACLE AS DESCRIBED ON THE DRAWINGS.
- SPECIAL POWER RECEPTACLE AS DESCRIBED ON THE PLANS.
- WALL TELEPHONE OUTLET, 4" X 4" X 1-1/2" DEEP BOX WITH SINGLE GANG RING AND COVER PLATE.
- FLOOR TELEPHONE OUTLET AS DESCRIBED ON THE DRAWINGS.
- SURFACE MULTI-OUTLET ASSEMBLY, WIREMOLD/PLUGMOLD SERIES #G-3000 (OR #G-4000 AS NOTED) WITH 20 AMP, 125 VAC DUPLEX RECEPTACLE OUTLETS AT 3"-0" CENTERS (U.O.N.). DEVICES SHALL BE WIRED ALTERNATELY SUCH THAT NO ADJACENT DEVICES ARE ON THE SAME CIRCUIT. MOUNT ABOVE COUNTER AND/OR BACKSPLASH, UNLESS OTHERWISE NOTED.
- TELEPHONE OUTLET AS HEREINBEFORE DESCRIBED, WITH 3/4" C.O., CONCEALED UP IN WALL AND STUBBED ABOVE ACCESSIBLE CEILING.

MISCELLANEOUS:

- NUMBER IN TOP HEMISPHERE IDENTIFIES DETAIL / DIAGRAM NUMBER. REFER TO DETAIL / DIAGRAM NUMBER SHOWN ON THE SHEET REFERENCED IN THE BOTTOM HEMISPHERE FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- NUMBER IN BOTTOM HEMISPHERE IDENTIFIES DRAWING SHEET WHERE THE DETAIL, DIAGRAM, ETC. IS SHOWN. REFER TO DETAIL / DIAGRAM NUMBER SHOWN ON THE SHEET REFERENCED IN THE BOTTOM HEMISPHERE FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- LIGHT FIXTURE IDENTIFICATION TAG, SEE "LIGHT FIXTURE SCHEDULE".
- SHEET NOTE IDENTIFICATION TAG, SEE "SHEET NOTES" ON THE RESPECTIVE DRAWINGS WHERE THE SYMBOL OCCURS, U.O.N.
- POWER EQUIPMENT IDENTIFICATION TAG, SEE "EQUIPMENT SCHEDULE".
- GROUND ROD IN INSPECTION WELL, SEE TYPICAL DETAIL ON PLANS.
- GROUND ROD.
- JUNCTION BOX (NOT ALL SHOWN), SIZE AS REQUIRED BY CODE, WITH B.M.C.; BLANK STAINLESS STEEL COVER WHERE FLUSH IN FINISHED AREAS.
- DATA OUTLET FOR (2); SINGLE GANG RING WITH (2) PULL STRINGS UP IN WALL.
- DATA OUTLET FOR (4); TWO GANG RING WITH (4) PULL STRINGS UP IN WALL.

SYSTEMS DEVICES AND OUTLETS:

- FIRE ALARM MANUAL PULL STATION, WALL MOUNT AT +48" UNLESS OTHERWISE NOTED.
- FIRE ALARM VISUAL INDICATING DEVICE (WHERE SHOWN NUMERIL INDICATED THE RESPECTIVE DEVICE CANDELA RATINGS).
- FIRE ALARM IONIZATION DETECTOR, SURFACE CEILING OR WALL MOUNT.
- TELEVISION OUTLET, WALL MOUNT AT +18" UNLESS OTHERWISE NOTED.
- SPEAKER WITH BACKBOX AND GRILL, CEILING OR WALL MOUNT.
- SPEAKER WITH BACKBOX AND GRILL, FLUSH CEILING OR WALL MOUNT.
- VOLUME CONTROL, WALL MOUNT AT +42" UNLESS OTHERWISE NOTED.
- CLOCK, CEILING OR WALL MOUNT PER SPECIFICATIONS, OR AS DESCRIBED ON THE DRAWINGS.

PLAN CHECK ALERT "TAG". INTENDED TO ASSIST PLAN CHECKER (AND THE CONTRACTOR) IN LOCATING CERTAIN SPECIFIC INFORMATION ON THE DRAWINGS.

NOTE:
GENERALLY, SYMBOLS SHOWN DASHED ON DRAWINGS INDICATES THE SYMBOL (DEVICE, OUTLET, ETC.) TO BE REMOVED AS PART OF THE PROJECT SCOPE.

SWITCHES:

- SHALL BE 20 AMP, 120/277 VOLT, MOUNTED AT +48" A.F.F., TO TOP OF OUTLET BOX U.O.N.
- LOWER CASE LETTERS INDICATE CONTROL CORRESPONDING WITH LETTERS AT LIGHT FIXTURES.
- "DECORATOR" STYLE, U.O.N.
- DEVICE & PLATE COLOR AS SELECTED BY THE ARCHITECT OR OWNER.
- S.P.S.T.; P & S #2621, LEVITON, AH, HUBBELL OR APPROVED EQUAL.
- S.P.S.T.; P & S #2622, LEVITON, AH, HUBBELL OR APPROVED EQUAL.
- 3-WAY; P & S #2623, LEVITON, AH, HUBBELL OR APPROVED EQUAL.
- 4-WAY; P & S #2621, LEVITON, AH, HUBBELL OR APPROVED EQUAL.
- MOMENTARY CONTACT; S.P.D.T.; P & S #2081, LEVITON, AH, HUBBELL OR SLATER APPROVED EQUAL.
- AS INDICATED ABOVE, KEY OPERATED; ARROW-HART #2000 KEY, HUBBELL OR SLATER APPROVED EQUAL.
- AS INDICATED ABOVE, WITH "PILOT" LIGHTED RED HUNDLE; ARROW-HART #PL SERIES, HUBBELL OR APPROVED EQUAL.
- MANUAL MOTOR STARTER, ENCLOSURE AND RATING TO SUIT LOCATION. MOUNT AT MAXIMUM 6'-6". IN FINISHED AREAS, SHALL BE FLUSH MOUNTED.
- SAME AS ABOVE AND WITH PILOT LIGHT.
- DOUBLE SWITCH, PAIR OF S.P.S.T. SWITCHES AS DESCRIBED ABOVE, WITH COMMON 2 GANG DEVICE PLATE.
- DIMMER SWITCH. RATINGS AS NOTES ON THE DRAWING.

DEVICES AND EQUIPMENT:

- MOTOR CONNECTION.
- HEATER CONNECTION.
- HEAVY DUTY FUSED SAFETY DISCONNECT SWITCH; ENCLOSURE, RATING TO SUIT LOCATION. FUSES TO SUIT EQUIPMENT NAMEPLATE DATA. "N.F." (WHEN SHOWN) DENOTES "NON-FUSED".
- CIRCUIT BREAKER IN SEPARATE ENCLOSURE TO SUIT LOCATION. RATING AS INDICATED ON THE DRAWINGS.
- MAGNETIC MOTOR STARTER PER SPECIFICATIONS OR AS NOTED ON THE PLANS.
- COMBINATION MAGNETIC MOTOR STARTER AND CIRCUIT BREAKER PER SPECIFICATIONS OR AS NOTED ON THE PLANS.
- COMBINATION MAGNETIC MOTOR STARTER AND FUSED DISCONNECT SWITCH PER SPECIFICATIONS OR AS NOTED ON THE PLANS.
- "PACKAGED" MECHANICAL EQUIPMENT WITH INTEGRAL STARTER(S) AND CONTROL PANEL.
- BRANCH CIRCUIT PANELBOARD, FLUSH OR SURFACE MOUNT. SEE "PANEL SCHEDULES" FOR ADDITIONAL INFORMATION. COPPER BUSS AND "BOLT-ON" CIRCUIT BREAKERS, U.O.N.
- TERMINAL CABINET, FLUSH OR SURFACE MOUNT.
- MAIN SWITCHBOARD, MOTOR CONTROL CENTER, DISTRIBUTION PANEL OR OTHER MAJOR ITEM OF ELECTRICAL EQUIPMENT. COPPER BUSSES U.O.N.
- VENTILATED DRY TYPE TRANSFORMER. COPPER WINDINGS AND AS OTHERWISE SPECIFIED.

CONDUIT AND WIRING:

- CROSSLINES INDICATES QUANTITY OF CONDUCTORS WHEN MORE THAN 2.
- NO CROSSLINES INDICATES 2 #12 CONDUCTORS, OTHER SIZES OF CONDUCTORS INDICATED BY NOTATION.
- UNLESS OTHERWISE SPECIFIED, ALL CONDUITS SHALL BE GRS AND ALL CONDUCTORS SHALL BE COPPER.
- CONCEALED IN WALLS AND/OR CEILING.
- CONCEALED IN OR BELOW FLOORS AND IN WALLS.
- EXPOSED WHERE ALLOWED. IN FINISHED AREAS, PAINT TO MATCH ADJACENT SURFACES.
- HOMERUN TO PANEL OR EQUIPMENT AS NOTED.
- EMERGENCY SYSTEM.
- TELEPHONE SYSTEM, 3/4" CONDUIT MINIMUM, WITH PULL LINE.
- FIRE ALARM SYSTEM CONDUIT WITH CONDUCTORS.
- EXISTING.
- PRIMARY.
- SECONDARY.
- GROUND SYSTEM 24" BELOW FINISHED GRADE, OR AS DESCRIBED ON THE DRAWINGS.
- STUB AND CAP.
- TURNING UP OR DOWN (BETWEEN FLOORS).
- CONDUIT (WITH OR WITHOUT CONDUCTORS) - REMOVE.

ABBREVIATIONS:

- A.F.F. ABOVE FINISHED FLOOR
- G. GND
- GND GROUND
- B.C. BARE COPPER
- GRS GALVANIZED RIGID STEEL
- B.M.C. BLANK METAL COVER
- M.S. MECHANICAL SECTION
- CKT. CIRCUIT
- <N> NEW
- C CONDUIT
- N.A. NOT APPLICABLE
- C.O. "CONDUIT ONLY", WITH 3/16" DIAMETER NYLON PULL LINE.
- N.L. NIGHT LIGHT
- D.O. "DUCT ONLY", WITH 3/16" DIAMETER NYLON PULL LINE.
- N.T.S. NOT TO SCALE
- <E> EXISTING
- P POLE
- <R> REMOVE
- E.L. EXTERIOR LIGHT
- U.G. UNDERGROUND
- EM EMERGENCY
- W.P. WEATHERPROOF
- ES ESSENTIAL SYSTEM
- XP EXPLOSION PROOF
- FA FIRE ALARM
- U.L. UNDERWRITERS LABORATORY
- C.W. COLD WATER
- U.O.N. UNLESS OTHERWISE NOTED
- C.T. CURRENT TRANSFORMER
- D.CKT. "DEDICATED CIRCUIT" ONLY THE DEVICE WITH THIS TAG SHALL BE ON A CIRCUIT BY ITSELF.
- CONC. CONCRETE
- GF GROUND FAULT

GENERAL NOTES

GENERAL:

THESE GENERAL NOTES ARE NOT INTENDED TO REPLACE THE TYPED ELECTRICAL SPECIFICATIONS AND ARE COMPLEMENTARY. THE TYPED SPECIFICATIONS ARE SPECIFICALLY AN INTEGRAL PART OF THESE PROJECT REQUIREMENTS AND SHALL BE STRICTLY ADHERED TO.

THE WORK, INFORMATION, DESIGNS, CONCEPTS AND IDEAS SHOWN ON THESE DRAWINGS IS SITE AND PROJECT SPECIFIC, AND IS INTENDED TO BE USED FOR THIS ONE PROJECT ONLY. NO WARRANTY IS EXPRESSED OR IMPLIED FOR ANY USE OR PURPOSE BEYOND THAT FOR WHICH THESE DRAWINGS WERE CREATED AND INTENDED.

READ THE SPECIFICATIONS AND COMPLY WITH ALL REQUIREMENTS CONTAINED THEREIN. CONSULT WITH THE GENERAL CONTRACTOR AND ALL OTHER CONTRACTORS ON THE PROJECT TO OBTAIN INFORMATION PERTINENT TO THE ELECTRICAL SYSTEM AND ALL EQUIPMENT WHICH REQUIRES ELECTRICAL POWER TO OPERATE. PROVIDE IN BID ALL MATERIALS AND WORKMANSHIP REQUIRED TO MAKE A COMPLETE AND OPERATIONAL FACILITY.

REVIEW ALL OTHER DRAWINGS AND SPECIFICATIONS, INCLUDE ALL MATERIALS AND WORKMANSHIP FOR ALL EQUIPMENT REQUIRING ELECTRICAL POWER.

THESE ELECTRICAL DRAWINGS, ALTHOUGH VARIOUS "SCALES" MAY BE LISTED, ARE NOT INTENDED TO BE NOR ARE THEY "TO SCALE", AND THESE DRAWINGS SHALL NOT BE SCALED. "SCALES" SHOWN ARE APPROXIMATE ONLY. OBTAIN ALL DISTANCES FROM ACTUAL FIELD MEASUREMENTS AND FROM ARCHITECTURAL, CIVIL, STRUCTURAL AND SIMILAR DRAWINGS THAT ARE DIMENSIONED AND ARE INTENDED TO BE SCALED.

PERMITS AND CHARGES:

OBTAIN AND PAY FOR ALL NECESSARY CONSTRUCTION PERMITS, INSPECTION FEES, AND OTHER CHARGES BY AGENCIES HAVING JURISDICTION.

REGULATIONS AND CODES:

PROVIDE AND INSTALL ALL MATERIALS IN CONFORMANCE WITH THE NATIONAL ELECTRICAL CODE, AND ALL OTHER CODES AND REGULATIONS HAVING JURISDICTION. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE REQUIREMENTS OF THE INSPECTING AUTHORITY AND THE MANUFACTURERS RECOMMENDATIONS.

VERIFYING EXISTING CONDITIONS:

BEFORE SUBMITTING BID, BECOME THOROUGHLY FAMILIAR WITH ACTUAL EXISTING CONDITIONS AT THE PROJECT SITE. THE INTENT OF THE WORK IS SHOWN ON THE DRAWINGS AND DESCRIBED HEREINAFTER. BY THE ACT OF SUBMITTING A BID PROPOSAL FOR THE WORK, THE CONTRACTOR SHALL BE DEEMED TO HAVE MADE SUCH STUDY AND EXAMINATION AND TO ACCEPT ALL CONDITIONS PRESENT AT THE SITE. NO REQUEST FOR ADDITIONAL PAYMENT WILL BE CONSIDERED AS VALID, DUE TO FAILURE TO ALLOW FOR CONDITIONS WHICH MAY EXIST.

COORDINATION:

COORDINATE ALL WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.

ELECTRICAL EQUIPMENT LOCATIONS ARE SHOWN IN A DIAGRAMATIC MANNER, EXACT LOCATION SHALL BE VERIFIED.

AS BUILT DRAWINGS:

PROVIDE REPRODUCIBLE RECORD DRAWINGS TO THE OWNER WITH ALL CHANGES NOTED THEREON AT THE COMPLETION OF THE PROJECT. RECORD DRAWINGS SHALL BE SIGNED AND DATED BY CONTRACTOR & FURNISHED TO THE OWNER PRIOR TO RELEASE OF FINAL RETENTION OF ALL MONEYS.

GUARANTEE:

CONTRACTOR SHALL UNCONDITIONALLY GUARANTEE ALL LABOR AND MATERIALS ON ALL WORK AGAINST DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR.

SHOP DRAWINGS:

SUBMIT SHOP DRAWINGS AND MATERIAL LIST FOR REVIEW PRIOR TO COMMENCING ANY WORK. ALL EQUIPMENT TO BEAR U.L. LABEL OR THAT OR ANOTHER ACCEPTABLE TESTING LABORATORY. SHOP DRAWINGS MUST BE STAMPED BY THE CONTRACTOR CERTIFYING COMPLETE CONFORMANCE WITH ALL PROJECT REQUIREMENTS PRIOR TO SUBMITTAL.

CONTRACTOR'S BID:

CONTRACTOR'S BID SHALL BE BASED ON ALL WORK SHOWN ON THE PLANS AND AS SPECIFIED. IF CONTRACTOR PROPOSES TO SUBSTITUTE FOR EQUIPMENT SPECIFIED, HE SHALL SUBMIT HIS REQUEST IN WRITING FOR CONSIDERATION OF THE OWNER AND ENGINEER PRIOR TO BIDDING. SUBSTITUTIONS MUST BE REVIEWED BY THE ENGINEER.

MATERIAL AND INSTALLATION:

ALL WORK AND MATERIAL SHALL CONFORM TO THE LATEST RULES OF THE GOVERNING ELECTRICAL CODE AND INSTALLATION SHALL BE OF THE LATEST INDUSTRY STANDARDS OF WORKMANSHIP.

ALL MATERIALS SHALL BE NEW AND LISTED BY UNDERWRITERS LABORATORY (U.L.).

ALL ELECTRIC EQUIPMENT OVER 48 VOLTS SHALL BE LABELED AND INSTALLED PER THE LISTING.

DEDICATED ELECTRICAL SPACE:

THE SPACE EQUAL TO THE WIDTH AND DEPTH OF THE EQUIPMENT AND EXTENDING FROM THE FLOOR TO A HEIGHT OF 1.8 M (6 FT) ABOVE THE EQUIPMENT OR TO THE STRUCTURAL CEILING, WHICHEVER IS LOWER, SHALL BE DEDICATED TO THE ELECTRICAL INSTALLATION. NO PIPING, DUCTS, LEAK PROTECTION APPARATUS, OR OTHER EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION SHALL BE LOCATED IN THIS ZONE. NEC110.26(f)(1).

POWER:

COPPER MC IS PERMITTED.

ALL EXPOSED BOXES, CONDUITS, FITTINGS, BOXES, HARDWARE, ETC. SHALL BE PAINTED OR OTHERWISE FINISHED AS DIRECTED BY THE ARCHITECT.

FEEDERS AND BRANCH CIRCUITS IDENTIFICATION:

IDENTIFY FEEDERS WITH THE CORRESPONDING CIRCUIT DESIGNATION AT THE OVER-CURRENT DEVICE, LOAD END, AND IN PULL BOXES WITH E-Z CODE OR OTHER APPROVED WIRE MARKER.

IDENTIFY BRANCH CIRCUITS WITH I.D. MARKERS, THE CORRESPONDING CIRCUIT DESIGNATION AT THE OVER-CURRENT DEVICE, AT ALL SPLICES, IN JUNCTION BOXES, AND IN OUTLETS. USE PLASTIC COATED SELF-STICKING MARKERS SUCH AS THOMAS & BETTS E-Z CODE FOR IDENTIFICATION OF CONDUCTORS. IDENTIFY SIGNAL & COMMUNICATION CABLES AT TERMINAL AND OUTLET.

CONDUCTORS:

REMOVE INDIVIDUAL INSULATED COPPER CONDUCTORS #12 AWG MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. PROVIDE STRANDED COPPER CONDUCTORS FOR ALL WIRING. CONDUCTORS SHALL HAVE 90 DEGREE C THHN/THWN 600 VOLTS INSULATION, UNLESS OTHERWISE NOTED.

REDUNDANT GROUND PATH (AKA "HOSPITAL GRADE") "MC" CABLE MAY BE USED FOR INDIVIDUAL BRANCH CIRCUITS WHERE CONCEALED.

ALL CONDUCTORS IN RACEWAYS SHALL BE OF THE AWG SIZES NOTED AND INSULATED FOR 600 VOLTS; SHALL BE SOFT DRAWN STRANDED, COPPER WITH THHN/THWN INSULATION. WHERE CONDUCTOR SIZE IS NOT INDICATED ON THE DRAWINGS, THE WIRE SHALL BE NO. 12 THHN / THWN, MINIMUM. ALL CONDUCTORS AND ALL WIRES SHALL BE INSTALLED IN CONDUITS, UNLESS SPECIFICALLY NOTED OTHERWISE.

WIRE SIZE, INSULATION TYPE AND THE MANUFACTURER'S NAME SHALL BE PERMANENTLY MARKED ON THE CONDUCTOR JACKET AT REGULAR INTERVALS.

ALL BRANCH CIRCUIT WIRES SHALL BE IDENTIFIED BY USING FACTORY COLORED WIRES, COLOR-CODED, WITH A SEPARATE COLOR FOR EACH PHASE. ALL FEEDER CABLES SHALL BE IDENTIFIED BY USING COLOR BANDS AT ALL TERMINATIONS, JUNCTIONS AND WHEREVER THE WIRES ARE ACCESSIBLE IN PULL BOXES. THE NEUTRAL INSULATION SHALL BE WHITE AND THE EQUIPMENT GROUND SHALL BE GREEN.

CABLE COLOR CHART

120/208 VAC.

PHASE A SHALL BE BLACK.
PHASE B SHALL BE RED.
PHASE C SHALL BE BLUE.
NEUTRAL SHALL BE WHITE.
GROUND SHALL BE GREEN.

277/480 VAC.

PHASE A SHALL BE BROWN.
PHASE B SHALL BE PURPLE.
PHASE C SHALL BE YELLOW.
NEUTRAL SHALL BE WHITE OR LT GRAY.
GROUND SHALL BE GREEN.

EXECUTION:

CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHED SURFACES, LIMIT DAMAGE TO THE CONFINES AS MUCH AS POSSIBLE AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES WHICH ARE DAMAGED DUE TO THE INSTALLATION OF THIS WORK.

EQUIPMENT, MATERIALS AND SUPPLIES REMOVED FOR PROTECTION SHALL BE REPLACED IN ORIGINAL LOCATIONS. ANY MATERIALS DAMAGED SHALL BE REPLACED WITH NEW MATERIALS OF LIKE KIND AND QUALITY.

DO ALL DRILLING, CUTTING, CHANNELING AND PATCHING REQUIRED TO INSTALL ELECTRICAL WORK AS INDICATED OR HEREIN SPECIFIED. ALL HOLES, CURBS, ETC. IN FLOORS, CEILINGS AND WALLS SHALL BE PATCHED, UNLESS INDICATED OTHERWISE. PAINT ALL NEW ELECTRICAL RACEWAYS, CABINETS, ENCLOSURES AND FITTINGS PENETRATING INTO FIRE RATED ENVELOPES, SPACES, ETC.

ALL CONDUIT RUNS SHALL BE CONCEALED, UNLESS SHOWN OTHERWISE. PROVIDE A PULL WIRE IN ALL EMPTY CONDUITS.

ALL WORK SHOWN IS NEW UNLESS SPECIALLY INDICATED AS EXISTING. ALL ELECTRICAL EQUIPMENT MOUNTING AND ANCHORAGE MUST CONFORM WITH LOCAL AND STATE SEISMIC CODES.

INSTALLATION:

IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS THAT A COMPLETE AND WORKABLE ELECTRICAL INSTALLATION BE PROVIDED FOR ALL THE EQUIPMENT DESCRIBED OR SHOWN AS BEING IN THIS CONTRACT. TO THIS END, CONTRACTOR SHALL FURNISH ALL LABOR AND TOOLS NECESSARY AND FURNISH AND INSTALL ALL APPARATUS, MATERIALS AND EQUIPMENT IN A MANNER COMPLYING WITH ALL APPLICABLE CODES, INCLUDING ITEMS REQUIRED BUT NOT NORMALLY SHOWN, SUCH AS LAMPS, COUPLINGS, HANGERS, BRACKETS, CLAMPS, BOXES, CONNECTORS AND HARDWARE. REFER ALSO TO WRITTEN SPECIFICATIONS FOR GENERAL, MECHANICAL AND ELECTRICAL SECTIONS.

PROCURE ALL PERMITS FROM LEGALLY CONSTITUTED AUTHORITIES, ARRANGE FOR ALL INSPECTIONS AND PAY ALL COSTS FOR FEES AND TESTS IN CONNECTION THEREWITH. COMPLY WITH CODES: NOTHING IN THESE PLANS AUTHORIZES DEVIATION FROM APPLICABLE CODES.

DETERMINE EXACT ROUTING OF FEEDERS AND BRANCH HOMERUNS IN COOPERATION WITH OTHER TRADES TO SIMPLIFY INSTALLATION WHEREVER POSSIBLE BUT SUBJECT TO APPROVAL OF ARCHITECT FOR VISUAL AND STRUCTURAL REASONS.

SIZE OUTLET BOXES IN CONFORMITY WITH CODE FOR NUMBER AND GAUGE OF CONDUCTORS THEREIN, EXCEPT WHERE NOTED TO BE LARGER. MINIMUM BOX SIZE SHALL BE 4" SQUARE BY 1-1/2" DEEP.

EXAMINE PLANS TO DISCERN CEILINGS WITH A FIRE RATING OF ONE HOUR OR MORE, PROVIDE A MATCHING FIRE-RATED ENCLOSURE OVER EACH LIGHT FIXTURE RECESSED THEREIN.

ALL ELECTRICAL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING AND REPAIRING. ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE. EXPOSED CONDUIT SHALL BE IN STRAIGHT LINES PARALLEL WITH, OR AT RIGHT ANGLES TO, COLUMN LINES OR BEAMS AND SEPARATED BY AT LEAST THREE(3) INCHES FROM WATER LINES WHENEVER THEY RUN ALONGSIDE OR ACROSS SUCH LINES. HANGERS SHALL BE FASTENED TO STEEL, CONCRETE OR MASONRY, BUT NOT TO PIPING. ALL HANGERS MUST BE UNIFORMLY SPACED AND NEATLY INSTALLED WITH NO EXCESS MATERIAL BEYOND WHAT IS REQUIRED FOR THE SUPPORT FUNCTION. CONTRACTOR SHALL SELECT ACCESSORIES AND HARDWARE WITH A SMOOTH, NEAT FINISHED APPEARANCE AND PAINT ALL EXPOSED CONDUIT HANGERS TO MATCH THE ADJACENT FINISHES.

TELEPHONE / DATA SYSTEMS:

PROVIDE RACEWAYS, AND ALL MATERIAL INCLUDING PULLING CABLE IN EACH RACEWAY AS REQUIRED FOR THE TELEPHONE SYSTEM PER THE SERVING TELEPHONE COMPANY REQUIREMENTS.

GROUNDING & BONDING:

FURNISH AND INSTALL COMPLETE BONDING AND GROUNDING SYSTEM AS REQUIRED BY CODES. CONTINUITY OF GROUNDING SHALL BE MAINTAINED MECHANICALLY AND ELECTRICALLY THROUGHOUT THE SYSTEM. A GREEN GROUNDING CODE SIZED CONDUCTOR SHALL BE CARRIED IN ALL CONDUITS.

POWER INTERRUPTIONS:

THE FACILITY WILL BE IN OPERATION DURING CONSTRUCTION.

ELECTRICAL CIRCUITS SHALL BE INTERRUPTED ONLY WITH PRIOR WRITTEN CONSENT. SUCH INTERRUPTIONS SHALL BE PRECEDED BY ALL POSSIBLE PREPARATIONS BY THE CONTRACTOR WHICH ARE NECESSARY TO KEEP THE ELECTRICAL CIRCUITS OFF FOR A MINIMUM PERIOD PURSUANT WITH GOOD WORKMANSHIP. IF REQUIRED THIS WORK SHALL BE DONE ON WEEK-ENDS OR AT NIGHT WITH NO ADDED EXPENSE TO THE OWNER.

WRITTEN REQUESTS FOR OUTAGES SHALL BE SUBMITTED SEVEN (7) CALENDAR DAYS IN ADVANCE OF THE OUTAGE DATE. THIS REQUEST WILL DELINEATE THE PARTICULAR CIRCUITS IN QUESTION, THE TIME OF DAY THE POWER SHOULD BE REMOVED, AND AN APPROXIMATE NUMBER OF HOURS THE POWER SHALL BE OFF.

ALL WORK ON SERVICE CONDUCTORS AND OTHER SUCH EQUIPMENT SHALL BE DONE ONLY WHEN SUCH CONDUCTORS AND EQUIPMENT ARE DE-ENERGIZED. THE FOREMAN OF THE WORK MUST DISCONNECT THE VOLTAGE FROM THESE CIRCUITS HIMSELF, INSTALL HIS OWN PADLOCK AND KEEP THE KEY. IN ADDITION, A SAFETY WARNING TAG SHALL BE AFFIXED TO THE SWITCH. THIS TAG SHALL DESCRIBE THE WORK BEING DONE AND THE LOCATION OF THE JOB. THE PADLOCK SHALL BE REMOVED AT THE EARLIEST POSSIBLE MOMENT AFTER THE LINE HAS BEEN CLEARED OF ALL PERSONNEL.

METHOD OF PROCEDURE (AKA "M.O.P."):

THE CONTRACTOR SHALL DEVELOP AND SUBMIT TO THE OWNER FOR APPROVAL, A DETAILED METHOD OF PROCEDURE (AKA M.O.P.) WORKSHEET LISTING EACH STEP INVOLVED WITH EACH AND EVERY POWER OUTAGE / SHUT-DOWN.

THE M.O.P. SHALL LIST AND DESCRIBE EACH CIRCUIT AND PANEL INVOLVED TO BE SHUT-DOWN.

THE M.O.P. SHALL START AND END TIME FOR EACH STEP AND THE PARTY RESPONSIBLE FOR EACH STEP. THE VARIOUS RESPONSIBLE PARTIES SHALL BE THE OWNER'S FACILITY ELECTRICIANS, THE I.O.R., THE ELECTRICAL CONTRACTOR AND THE INDIVIDUALS THAT MAY BE INVOLVED.

THE M.O.P. SHALL BE SUBMITTED AT LEAST THREE (3) WEEKS PRIOR TO THE REQUESTED SHUT-DOWN DATE. NO WORK INVOLVED FOR A POWER OUTAGE / SHUT DOWN SHALL BE INITIATED WITHOUT THE OWNER'S SPECIFIC WRITTEN APPROVAL.

PRIOR TO SUBMITTING THE M.O.P. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER TO DETERMINE THE EXTENT OF CIRCUITS, SYSTEMS AND PANELS THAT WILL BE INVOLVED IN EACH AND EVERY POWER OUTAGE / SHUT-DOWN.

DEMOLITION:

THE CONTRACTOR SHALL VISIT THE SITE AND REVIEW THE EXISTING CONDITIONS, REVIEW THE EXISTING DRAWINGS AND ALLOW FOR ALL DEMOLITION, ALTERATION & NEW CONSTRUCTION THAT IS NECESSARY FOR COMPLETE INSTALLATION OF NEW CONSTRUCTION, INCLUDING BUT NOT LIMITED TO THE ELECTRICAL WORK.

REMOVE ALL ABANDONED WIRING, ELECTRICAL EQUIPMENT AND FIXTURES. SUCH ITEMS SHALL BE REMOVED FROM THE PREMISES.

EXISTING CONDUIT, FITTINGS, WIRE, ETC. REMOVED FROM THE EXISTING FACILITY SHALL NOT BE RE-USED UNLESS SPECIFICALLY APPROVED BY THE ARCHITECT. EXISTING CONDUIT, FITTINGS, WIRE, ETC., MAY BE RE-USED IN PLACE.

WHEREVER EXISTING WIRING, OUTLETS, OR EQUIPMENT IS ABANDONED AS A RESULT OF THIS CONTRACT, IT SHALL BE REMOVED INSOFAR AS POSSIBLE. THIS INCLUDES BUT IS NOT LIMITED TO:

REMOVE ALL WIRE AND CABLE. REMOVE ALL DEVICES AND EQUIPMENT. REMOVE ALL EXPOSED CONDUITS AS FAR AS POSSIBLE. CUT OFF AND CAP ALL ABANDONED CONDUITS. STUBS SHALL NOT BE EXTENDED ABOVE FLOOR. PROVIDE CLOSURE PLATES FOR ALL ABANDONED FLUSH OUTLETS.

WHERE REMOVAL OF AN EXISTING OUTLET WILL RESULT IN LOSS OF CIRCUIT CONTINUITY, THE ISOLATED PORTIONS OF THE CIRCUIT SHALL BE RE-CONNECTED TO PROVIDE SERVICE TO ALL OUTLETS. IF SITE CONDITIONS MAKE RE-CONNECTION IMPOSSIBLE, CONNECTION SHALL BE MADE FROM AN ADJACENT AVAILABLE OUTLET AS NOTED AND/OR AS DIRECTED.

REMOVE ELECTRICAL FIXTURES, OUTLETS, DEVICES, BOXES, EQUIPMENT, CONDUIT, CONDUCTORS, ETC. FROM EXISTING CONSTRUCTION BEING DEMOLISHED.

ALL MATERIALS AND LABOR SHALL BE INCLUDED WHETHER SUCH WORK IS SPECIFICALLY SHOWN ON THE PLANS OR NOT.

THE INFORMATION SHOWN ON THESE DRAWINGS AS "EXISTING" HAS BEEN OBTAINED FROM THE EXISTING AVAILABLE "AS-BUILT" AND OTHER DRAWINGS FROM OBSERVATIONS OF THE EXISTING SURFACE CONDITIONS. THE CONTRACTOR SHALL USE SUCH INFORMATION ACCORDINGLY AND WITH CAUTION.

SHOULD THE CONTRACTOR DISCOVER DISCREPANCIES IN THE "EXISTING" CONDITIONS SHOWN ON THESE DRAWINGS AND THE ACTUAL FIELD CONDITIONS, HE SHALL:

IN THE EVENT OF MINOR DISCREPANCIES WHICH DO NOT EFFECT THE INTENT OF THE DESIGN OR CIRCUIT/PANEL LOADING, SHOW AND DOCUMENT ACTUAL CONDITIONS ON "AS-BUILT" DRAWING WHICH THE CONTRACTOR SHALL PREPARE.

IN THE EVENT OF MAJOR DISCREPANCIES WHICH EFFECT THE INTENT OR CIRCUIT/PANEL LOADING, DOCUMENT THE ACTUAL CONDITIONS ENCOUNTERED AND IMMEDIATELY CALL SUCH DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT AND INT-ELECT ENGINEERING, INCORPORATED. THE ARCHITECT AND ENGINEER SHALL ISSUE FURTHER DIRECTION AND/OR CLARIFICATIONS.

PROJECT SCOPE

THE DRAWINGS, THESE GENERAL NOTES AND THE ACCOMPANYING SPECIFICATIONS, OUTLINE THE SCOPE OF WORK AND SYSTEMS. THE MATERIAL REQUIRED FOR THE WORK SHALL BE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED, UNLESS SPECIFICALLY NOTED OTHERWISE. THE WORK INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING PRINCIPAL SYSTEMS AND EQUIPMENT.

- RELOCATION OF CERTAIN RECEPTACLES.
- INSTALLATION OF CERTAIN NEW RECEPTACLES.
- RELOCATION OF EXIT SIGN.
- NEW EXIT SIGNS IN CERTAIN LOCATIONS.
- REPLACEMENT OF 3 2X4 LAY-IN FIXTURES WITH FOUR NEW 2X2 LED LAY-IN LIGHT FIXTURES WITH INTEGRAL OCCUPANR SENSORS AND ASSOCIATED WALLBOX DIMMER SWITCHES.
- TRANSFER ONE 480 VOLT FEEDER TO ANOTHER DISTRIBUTION PANEL SO THE LOADS ON THE TRANSFERRED FEEDER ARE ON THE EXISTING STAND-BY GENERATOR.

VOLTAGE DROP – BRANCH CIRCUITS

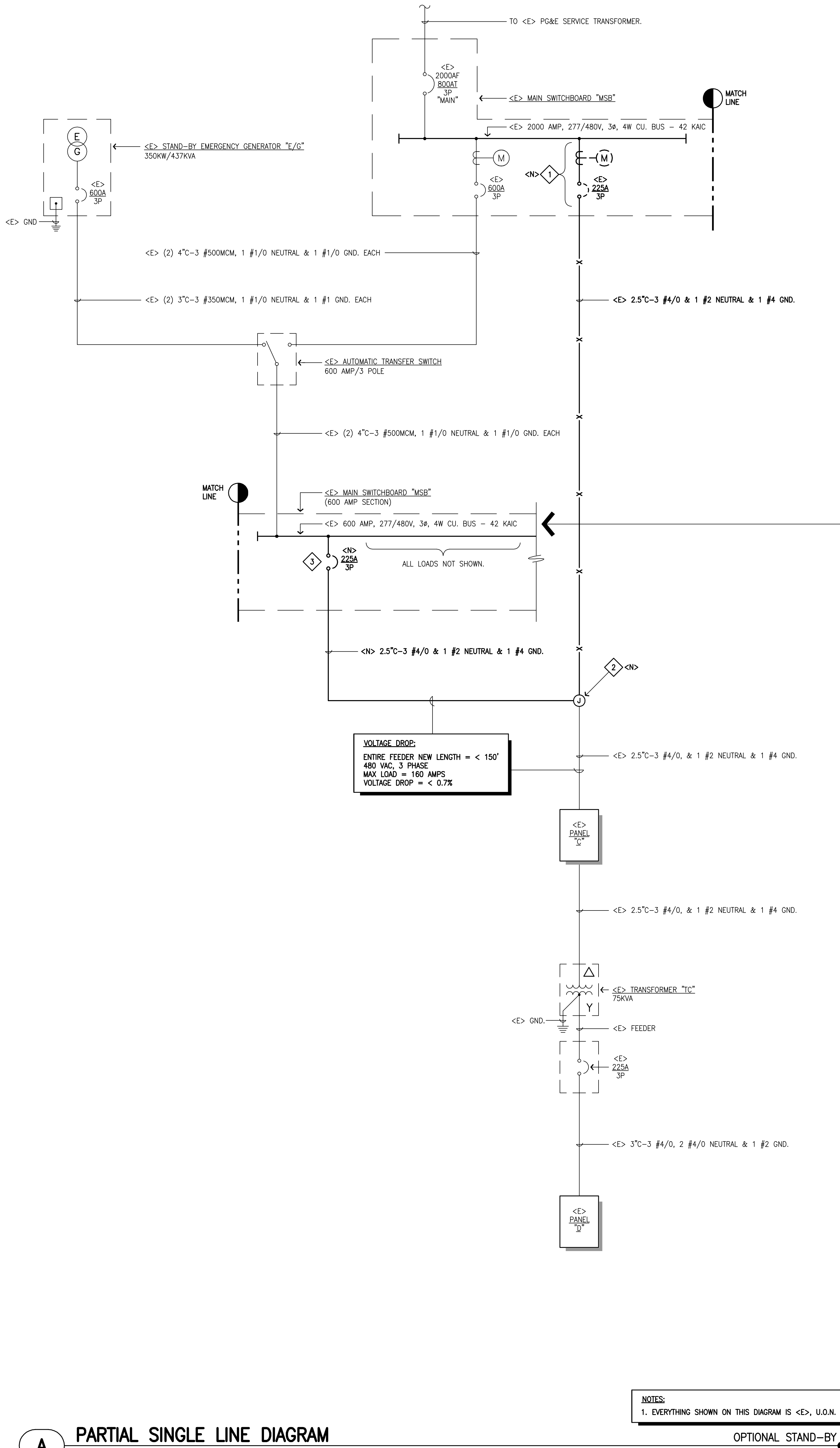
CONTRACTOR SHALL SIZE BRANCH CIRCUIT CONDUCTORS TO LIMIT VOLTAGE DROP TO 3% OR LESS. CALCULATE LENGTHS AND LOADS NOT INCLUDED ON THIS TABLE.

BREAKER AMP RATING	120 VAC, 1 PHASE MAXIMUM LENGTH OF RUN (CU)			
	#12 AWG	#10 AWG	#8 AWG	#6 AWG
15	80 FEET	140 FEET	200 FEET	—
20	60 FEET	100 FEET	160 FEET	250 FEET
30	—	70 FEET	100 FEET	160 FEET
40	—	—	80 FEET	190 FEET

	277 VAC, 1 PHASE MAXIMUM LENGTH OF RUN (CU)			
	#12 AWG	#10 AWG	#8 AWG	#6 AWG
15	180 FEET	310 FEET	490 FEET	—
20	140 FEET	210 FEET	360 FEET	570 FEET
30	—	150 FEET	240 FEET	380 FEET
40	—	—	180 FEET	280 FEET

APPLICABLE CODES

- 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC)
- PART 1, TITLE 24, CA CODE OF REGULATIONS (CCR)
- 2022 CALIFORNIA BUILDING CODE (CBC)
- PART 2, TITLE 24, CCR BASED ON THE 2018 INTERNATIONAL BUILDING CODE (IBC)
- 2022 CALIFORNIA RESIDENTIAL CODE (CRC)
- PART 2.5, TITLE 24, CCR BASED ON THE 2018 INTERNATIONAL RESIDENTIAL CODE
- 2022 CALIFORNIA ELECTRICAL CODE (CEC)
- PART 3, TITLE 24, CCR BASED ON THE 2018 NATIONAL ELECTRICAL CODE (NEC)
- 2022 CALIFORNIA MECHANICAL CODE (CMC)
- PART 4, TITLE 24, CCR BASED ON THE 2018 UNIFORM MECHANICAL CODE (UMC)
- 2022 CALIFORNIA PLUMBING CODE (CPC)
- PART 5, TITLE 24, CCR BASED ON THE 2018 UNIFORM PLUMBING CODE (UPC)
- 202



<E> PANEL "C" SCHEDULE													
MAIN BUS AMPS: <input type="checkbox"/> 100 AMP <input type="checkbox"/> 225 AMP <input checked="" type="checkbox"/> 400 AMP				MAINS: <input checked="" type="checkbox"/> MAIN LUG ONLY <input type="checkbox"/> A/3P C.B.									
VOLTS: <input type="checkbox"/> 120/240, 3ø, 4W <input checked="" type="checkbox"/> 277/480, 3ø, 4W				TYPE: <input type="checkbox"/> P1 MOUNT: <input checked="" type="checkbox"/> SURFACE <input type="checkbox"/> FLUSH									
LOAD	VOLTS-AMPS			CIRCUIT		CIRCUIT		VOLTS-AMPS			LOAD		
	ø A	ø B	ø C	BKR.	#	#	BKR.	ø A	ø B	ø C			
<E> AC #1	<E>			30	1	2	20/1	<E>			<E> LOAD (LIGHTS)		
		<E>			3	4			<E>				
			<E>	3	5	6				<E>			
<E> AC #2	<E>			30	7	8	100	600			<E> TRANSFORMER		
		<E>			9	10		1200					
<E> AC #3	<E>			30	11	12	3		720		<E> LOAD (LIGHTS)		
		<E>			13	14	20/1	<E>					
			<E>	15	16			<E>					
			<E>	3	17	18			<E>				
<E> SPACE	—			1P	19	20	1P	—			<E> SPACE		
					21	22							
					23	24							
					25	26							
					27	28							
					29	30							
					31	32							
					33	34							
					35	36							
					37	38							
					39	40							
					41	42							
CONNECTED <N>LOAD/PHASE	<E>	<E>	<E>					600	1200	720	CONNECTED <N>LOAD/PHASE		
TOTAL CONNECTED <N>LOAD IN KVA: 2.52													
HIGH PHASE <N>LOAD IN AMPS: 4.3													

LOAD CALCULATIONS	
30 DAY (+) RECORDING AMMETER READINGS STARTED ON: 06/14/23	
<E> 600 AMP MSB SECTION, 2,000 AMP SERVICE MSB BUS AND E/G LOADS:	
30 DAY RECORDING AMMETER READINGS STARTED ON 06 / 14 / 2023	
<E> PEAK DEMAND (HIGH PHASE X 3) =	175.3 KVA
+ 25% PER NEC =	43.8 KVA
TOTAL <E> =	219.1 KVA
THIS PROJECT LOADS BEING TRANSFERRED AND BEING CONNECTED TO THE <E> 600 AMP MSB BUS AND E/G:	
CALCULATED PER NEC 220.12 AND 220.14 TI AREA INVOLVED = 5,900 SQUARE FEET	
LIGHTING AT 1.3 VA / SQ FT =	7.8 KVA
RECEPTACLE LOAD: 70 RECEPTACLES AT 180 VA EA =	12.6 KVA
FUTURE PWR POLE RECEPPTS =	8.4 KVA
TOTAL =	21.0 KVA
1ST 10 KVA @ 100% =	10 KVA
11.0 KVA @ 50% =	5.5 KVA
DEMAND TOTAL =	15.5 KVA
KITCHEN RECEPTACLES @ 100% =	4.5 KVA
HVAC LOAD @ 100% =	58.5 KVA
+ 25% OF LARGEST MOTOR =	1.0 KVA
HVAC TOTAL =	59.5 KVA
IT ROOM RECEPTACLES AT 100% =	9.0 KVA
IT ROOM HVAC AT 100% =	11.0 KVA
TOTAL THIS PROJECT AREA LOAD =	1107.3 KVA
TOTAL LOAD =	326.4 KVA
CALCULATION:	

<E> PANEL "D" SCHEDULE													
MAIN BUS AMPS: <input type="checkbox"/> 100 AMP <input checked="" type="checkbox"/> 225 AMP <input type="checkbox"/> 400 AMP				MAINS: <input checked="" type="checkbox"/> MAIN LUG ONLY <input type="checkbox"/> A/3P C.B.									
VOLTS: <input checked="" type="checkbox"/> 120/240, 3ø, 4W <input type="checkbox"/> 277/480, 3ø, 4W				TYPE: <input type="checkbox"/> MOUNT: <input checked="" type="checkbox"/> SURFACE <input type="checkbox"/> FLUSH									
LOAD	VOLTS-AMPS			CIRCUIT	CIRCUIT	VOLTS-AMPS			LOAD				
	ø A	ø B	ø C	# BKR.	# BKR.	ø A	ø B	ø C					
<E> LOAD	<E>	<E>	<E>	20/1	1	2	100	<E>	<E> PANEL "D1"				
				3	4								
				5	6								
	<E>	<E>	<E>	7	8	50	<E>	<E>	<E> HVAC				
				9	10	2	<E>	<E>					
	<E>	<E>	<E>	11	12	30	<E>	<E>	<E> SERVERS				
				13	14	2	<E>	<E>					
	<E>	<E>	<E>	15	16	30	<E>	<E>	<E> SERVERS				
				17	18	2	<E>	<E>					
	<E>	<E>	<E>	19	20	20	<E>	<E>	<E> AC FAN COIL				
				21	22	2	<E>	<E>					
<E> LOAD	<E>	<E>	<E>	20 / 25	26	20/1	600		<E> SPACE				
				2	27	28	20/1	1200	<N> RECEPTS (1)				
<E> SPACE				1P / 29	30	20/1		720	<N> RECEPTS (2)				
				31	32	1P			<N> RECEPTS (4)				
				33	34				<E> SPACE				
				35	36								
				37	38								
				39	40								
				41	42								
CONNECTED <N>LOAD/PHASE	<E>	<E>	<E>			600	1200	720	CONNECTED <N>LOAD/PHASE				
TOTAL CONNECTED <N>LOAD IN KVA: 2.52 HIGH PHASE <N>LOAD IN AMPS: 10.0													

- SHEET NOTES**
- EXISTING BREAKER AND PG&E METERING. COORDINATE WITH PG&E FOR THE REMOVAL OF THE METERING EQUIPMENT AND BLANK OFF / SAFE OFF THE METER SOCKET. DISCONNECT AND REMOVE PORTION OF THE EXISTING FEEDER. PLACE THE CIRCUIT BREAKER HANDLE IN THE OFF POSITION, INSTALL PAD LOCKABLE LOCK-OFF DEVICE WITH BRAND NEW PADLOCK (FURNISH 2 KEYS TO THE OWNER), AND INSTALL ENGRAVED LABEL READING "ABANDONED IN PLACE".
 - DIAGRAMMATIC. INTERCEPT EXISTING FEEDER AND EXTEND TO THE NEW BREAKER. SPICE SHALL BE EXOTHERMIC TYPE PROPERLY INSULATED IN CODE SIZED BOX.
 - FURNISH, INSTALL AND CONNECT NEW CIRCUIT BREAKER AND ALL NECESSARY HARDWARE IN EXISTING SPACE. NEW BREAKER SHALL MATCH OR EXCEED TO AVAILABLE FAULT CURRENT RATING OF THE SWITCHBOARD, SHALL MATCH THE EXISTING IN MANUFACTURER, AND SHALL BE LISTED FOR INSTALLATION IN THE EXISTING SWITCHBOARD.

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Project No. 23104

*** READ THE SPECIFICATIONS !**

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WALL OPENING PROTECTIVE MATERIALS (CLIV)

THIS CATEGORY COVERS PROPRIETARY COMPOSITIONS WHICH ARE USED TO MAINTAIN THE HOURLY RATINGS OF FIRE RESISTIVE WALLS AND PARTITIONS CONTAINING FLUSH MOUNTED DEVICES SUCH AS OUTLET BOXES, ELECTRICAL CABINETS AND MECHANICAL CABINETS. THE INDIVIDUAL CLASSIFICATINS INDICATE THE SPECIFIC APPLICATIONS AND THE METHOD OF INSTALLATION FOR WHICH THE MATERIALS HAVE BEEN EVALUATED. THE BASIC STANDARD USED TO INVESTIGATE PRODUCTS IN THIS CATEGORY IS ANSI/UL 263, "FIRE TESTS OF BUILDING CONSTRUCTION AND MATERIALS".

LOOK FOR CLASSIFICATION MARKING ON PRODUCT

THE CLASSIFICATION MARKING OF UNDERWRITERS LABORATORIES INC. (SHOWN BELOW) ON THE PRODUCT OR CONTAINER IS THE ONLY METHOD PROVIDED BY UNDERWRITERS LABORATORIES INC. TO IDENTIFY WALL OPENING PROTECTIVE MATERIALS PRODUCED UNDER ITS CLASSIFICATION AND FOLLOW-UP SERVICE.

UNDERWRITERS LABORATORIES INC.®
CLASSIFIED
WALL OPENING PROTECTIVE MATERIAL
FIRE RESISTANCE CLASSIFICATION
SEE PRODUCT CATEGORY IN UL FIRE RESISTANCE DIRECTORY

3M COMPANY 3M FIRE PROTECTION PRODUCTS R9700
3M CENTER, ST PAUL MN 55144 USA

TYPE MPP+ MOLDABLE PUTTY PADS FOR USE WITH MAX 4-11/16 BY 4-11/16 BY 2-1/8 IN. DEEP FLUSH DEVICE UL LISTED METALLIC OUTLET BOXES INSTALLED WITH STEEL COVER PLATES FOR USE IN 1 OR 2 HR FIRE RATED GYPSUM BOARD WALL ASSEMBLIES FRAMED WITH MIN 3-1/2 IN. WIDE WOOD OR STEEL STUDS AND CONSTRUCTED AS SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 SERIES WALL AND PARTITION DESIGNS IN THE FIRE RESISTANCE DIRECTORY.

TYPE MPP+ MOLDABLE PUTTY PADS FOR USE WITH MAX 4-11/16 BY 4-11/16 BY 2-1/8 IN. DEEP FLUSH DEVICE UL LISTED METALLIC OUTLET BOXES INSTALLED WITH STEEL OR PLASTIC COVER PLATES FOR USE IN 1 HR OR 2 HR FIRE RATED GYPSUM BOARD WALL ASSEMBLIES FRAMED WITH MIN 5-1/2 IN. WIDE WOOD OR STEEL STUDS AND CONSTRUCTED AS SPECIFIED IN THE INDIVIDUAL U300, U400 SERIES WALL AND PARTITION DESIGNS IN THE FIRE RESISTANCE DIRECTORY. METALLIC OUTLET BOXES TO BE PROVIDED WITH STEEL ATTACHMENT BRACKETS WHICH OFFSET BOX MIN 1/4 IN. FROM STUD. PUTTY PAD TO BE AFFIXED TO THE BACK AND ALL FOUR SIDES OF THE BOX. BOXES MAY BE INSTALLED BACK-TO-BACK WITHIN THE STUD CAVITY, WHEN BACK-TO-BACK BOXES ARE INTERCONNECTED. A BALL OF PUTTY IS TO BE INSTALLED TO PLUG THE OPEN END OF EACH ELECTRICAL METALLIC TUBE OR CONDUIT WITHIN THE OUTLET BOXES.

TYPE MPP+ MOLDABLE PUTTY PADS FOR USE WITH MAX 4 BY 4 BY 2-1/8 IN. DEEP FLUSH DEVICE UL LISTED METALLIC OUTLET BOXES INSTALLED WITH PLASTIC COVER PLATES FOR USE IN 1 OR 2 HR FIRE RATED GYPSUM BOARD WALL ASSEMBLIES FRAMED WITH MIN 3-1/2 IN. WIDE WOOD OR STEEL STUDS AND CONSTRUCTED AS SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 SERIES WALL AND PARTITION DESIGNS IN THE FIRE RESISTANCE DIRECTORY.

TYPE MPP+ MOLDABLE PUTTY PADS FOR USE WITH MAX 14 BY 4 BY 2-1/2 IN. DEEP FLUSH DEVICE UL LISTED METALLIC OUTLET BOXES INSTALLED WITH STEEL COVER PLATES FOR USE IN 1 OR 2 HR FIRE RATED GYPSUM BOARD WALL ASSEMBLIES FRAMED WITH MIN 3-1/2 IN. WIDE STEEL STUDS AND CONSTRUCTED AS SPECIFIED IN THE INDIVIDUAL U400 OR V400 SERIES WALL AND PARTITION DESIGNS IN THE FIRE RESISTANCE DIRECTORY.

TYPE MPP+ MOLDABLE PUTTY PADS FOR USE WITH MAX 14 BY 4-1/2 BY 2-1/2 IN. DEEP UL LISTED NONMETALLIC OUTLET BOXES MANUFACTURED BY THOMAS & BETTS CORP., MADE OF POLYCARBONETE, TYPE 234 OR MADE OF PHENOLIC, TYPE 1052 AND BEARING A 2 HR RATING UNDER THE "OUTLET BOXES AND FITTINGS CLASSIFIED FOR FIRE RESISTANCE" CATEGORY IN THE FIRE RESISTANCE DIRECTORY. BOXES INSTALLED WITH STEEL COVER PLATES, FOR USE IN 1 HR FIRE RATED GYPSUM BOARD WALL ASSEMBLIES FRAMED WITH MIN 3-1/2 IN. WIDE WOOD STUDS AND CONSTRUCTED AS SPECIFIED IN THE INDIVIDUAL U300 SERIES WALL AND PARTITION DESIGNS IN THE FIRE RESISTANCE DIRECTORY.

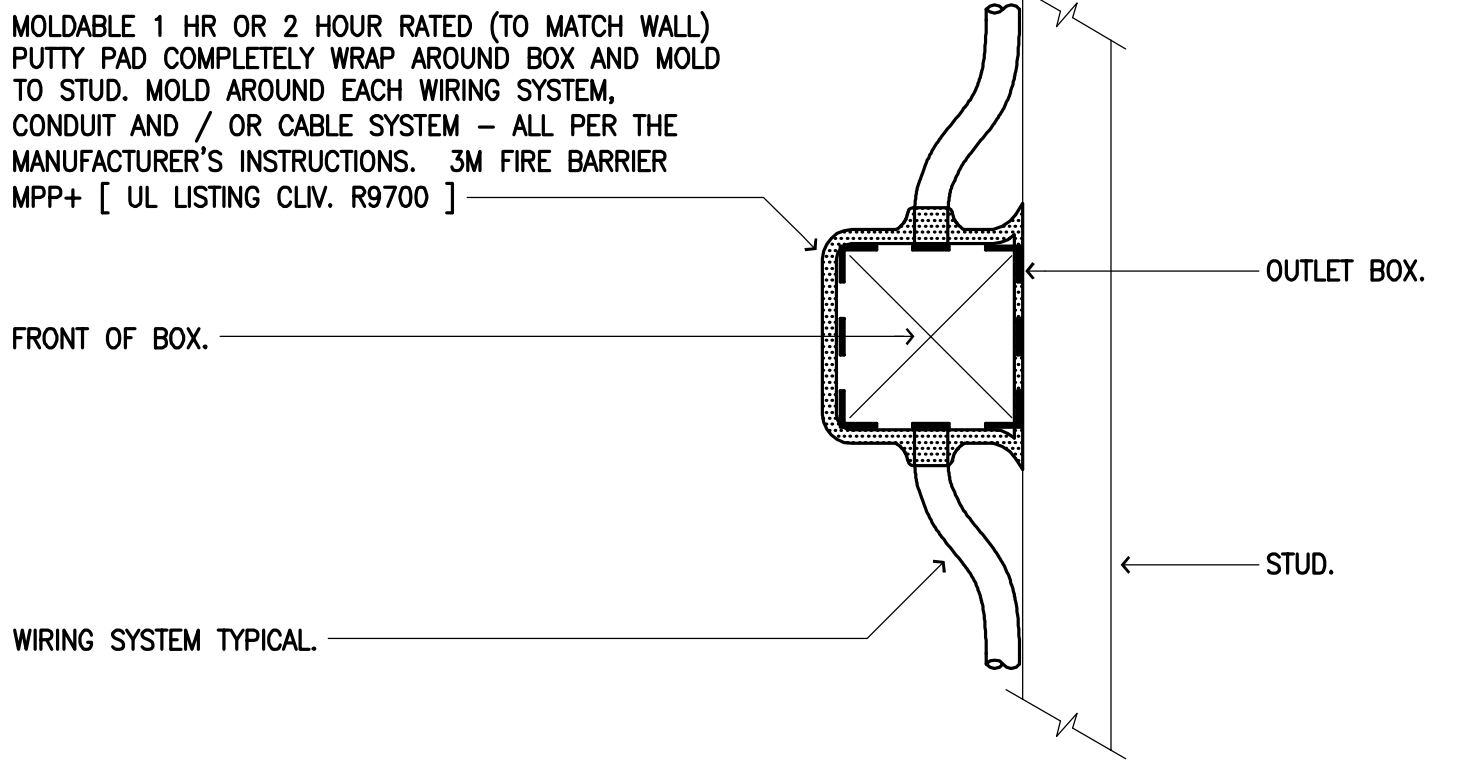
TYPE MPP+ MOLDABLE PUTTY PADS FOR USE WITH MAX 4 BY 3-3/4 BY 3 IN. DEEP UL LISTED NONMETALLIC OUTLET BOXES MANUFACTURED BY CARLON ELECTRICAL PRODUCTS, MADE OF PVC AND BEARING A 2 HOUR RATING UNDER THE "OUTLET BOXES AND FITTINGS CLASSIFIED FOR FIRE RESISTANCE CATEGORY IN THE FIRE RESISTANCE DIRECTORY. BOXES INSTALLED WITH PLASTIC COVER PLATES, FOR USE IN 1 HR RATED GYPSUM BOARD WALL ASSEMBLIES FRAMED WITH MIN 3-1/2 IN. WIDE WOOD STUDS AND CONSTRUCTED AS SPECIFIED IN THE INDIVIDUAL U300 SERIES WALL AND PARTITION DESIGNS IN THE FIRE RESISTANCE DIRECTORY.

TYPE MPP+ MOLDABLE PUTTY PADS FOR USE WITH MAX 4 YY 3-1/4 BY 3-3/4 IN. DEEP UL LISTED NONMETALLIC OUTLET BOXES MANUFACTURED BY THOMAS & BETTS CORP., MADE OF PHENOLIC, TYPE 2002-738-C AND BEARING A 2 HR RATING UNDER THE "OUTLET BOXES AND FITTINGS CLASSIFIED FOR FIRE RESISTANCE" CATEGORY IN THE FIRE RESISTANCE DIRECTORY. BOXES INSTALLED WITH STEEL COVER PLATES, FOR USE IN 2 HR FIRE RATED GYPSUM BOARD WALL ASSEMBLIES FRAMED WITH MIN 3-1/2 IN. WIDE STEEL STUDS AND CONSTRUCTED AS SPECIFIED IN THE INDIVIDUAL U400 OR V400 SERIES WALL AND PARTITION DESIGNS IN THE FIRE RESISTANCE DIRECTORY.

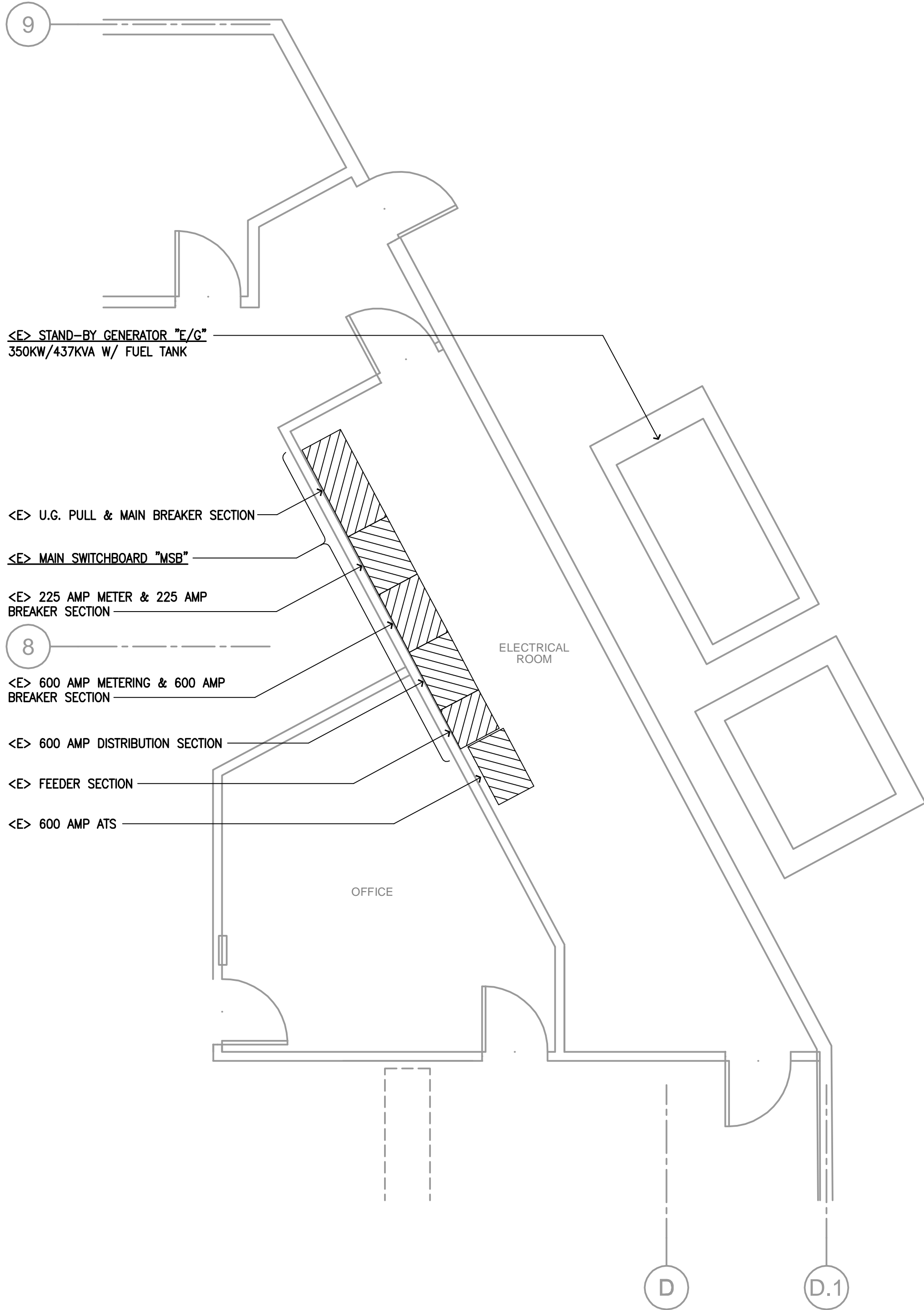
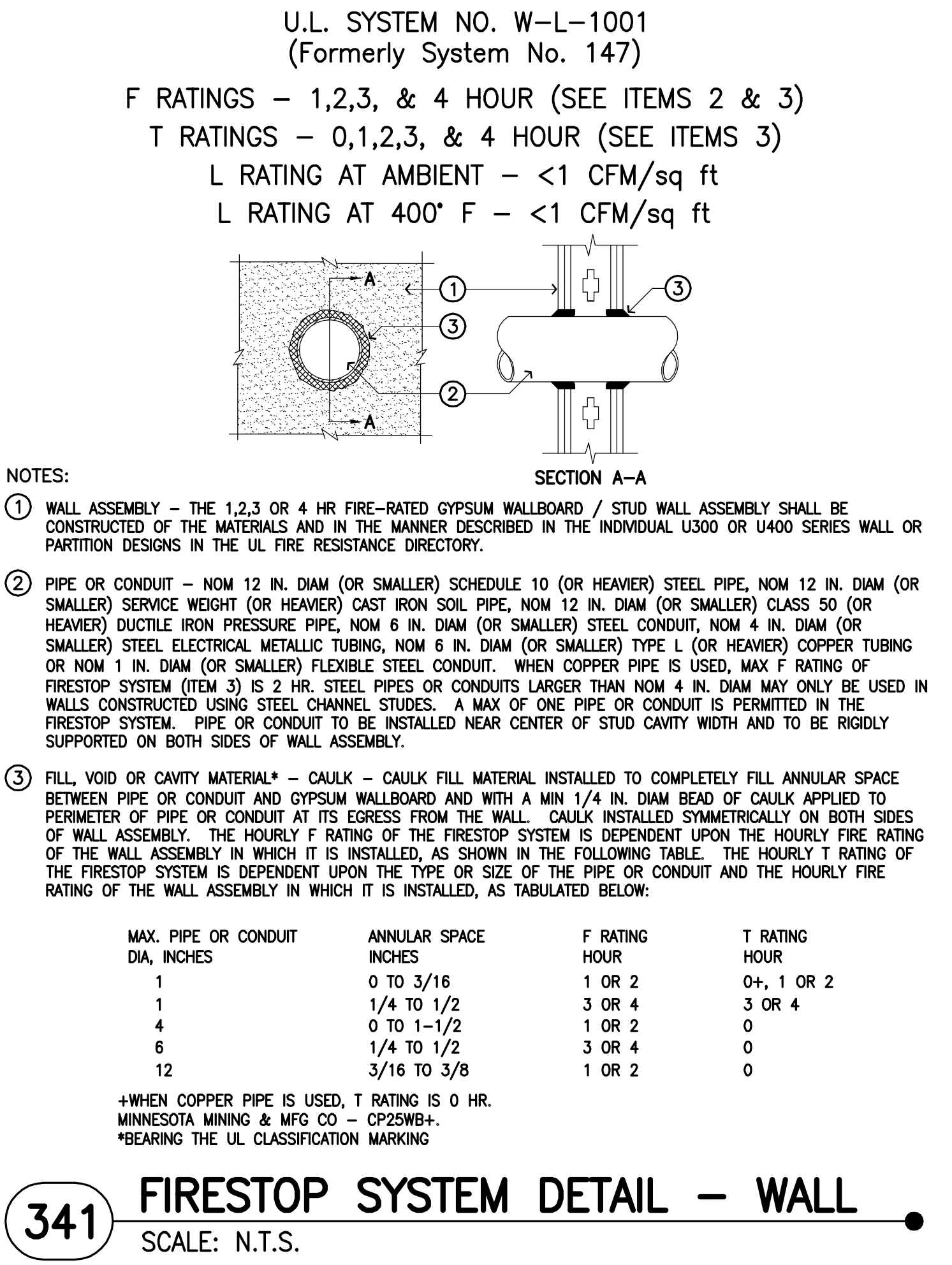
TYPE MPP+ MOLDABLE PUTTY PADS FOR USE WITH MAX 4 BY 4 BY 1-1/2 IN. DEEP FLUSH DEVICE UL LISTED METALLIC OUTLET BOXES INSTALLED WITH PLASTIC COVER PLATES FOR USE IN 1 HR FIRE RATED GYPSUM BOARD WALL ASSEMBLIES FRAMED WITH MIN 3-5/8 IN. WIDE STEEL STUDS AND CONSTRUCTED AS SPECIFIED IN THE INDIVIDUAL U400 OR V400 SERIES WALL AND PARTITION DESIGNS IN THE FIRE RESISTANCE DIRECTORY.

TYPE MPP+ MOLDABLE PUTTY PADS FOR USE WITH MAX 5 BY 5 BY 2 7/8 IN. DEEP FLUSH DEVICE UL LISTED METALLIC OUTLET BOXES OR UL LISTED COMMUNICATIONS-CIRCUIT ACCESSORIES MANUFACTURED BY RANDL INDUSTRIES INC FOR USE IN 1 HR OR 2 HR FIRE RATED GYPSUM BOARD WALL ASSEMBLIES FRAMED WITH MIN 3-5/8 IN. WIDE WOOD OR STEEL STUDS AND CONSTRUCTED AS SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 SERIES WALL AND PARTITION DESIGNS IN THE FIRE RESISTANCE DIRECTORY. METALLIC OUTLET BOXES TO BE PROVIDED WITH UL LISTED SIGNAL APPLIANCE WITH STEEL COVER PLATE MANUFACTURED BY COOPER WHELOCK INC.

MOLDABLE PUTTY PADS ARE TO BE INSTALLED TO COMPLETELY COVER THE EXTERIOR SURFACES OF THE OUTLET BOX (EXCEPT FOR THE SIDE OF THE OUTLET BOX AGAINST THE STUD UNLESS OTHERWISE NOTED) INCLUDING NAILING TABS AND TO COMPLETELY SEAL AGAINST THE STUD WITHIN THE STUD CAVITY. MULTIPLE MOLDABLE PUTTY PADS MAY BE INSTALLED ON AN OUTLET BOX TO ATTAIN THE REQUIRED MINIMUM THICKNESS OF PUTTY MATERIAL. ADDITIONAL PUTTY MATERIAL USED TO SEAL AROUND EACH CONDUIT AND/OR CABLE FITTING ON THE EXTERIOR OF EACH BOX. A MIN 1/10 IN. THICKNESS OF PUTTY MATERIAL IS REQUIRED ON THE EXTERIOR SURFACES OF FLUSH DEVICE BOXES IN 1 AND 2 HR FIRE RATED WALL AND PARTITION DESIGNS. WHEN THE MOLDABLE PUTTY PAD OUTLET BOX PROTECTIVE MATERIAL IS USED ON BOXES ON BOTH SIDES OF WALL AS DIRECTED, THE HORIZONTAL SEPARATION BETWEEN OUTLET BOXES ON OPPOSITE SIDES OF THE WALL MAY BE LESS THAN 24 IN. PROVIDED THAT THE OUTLET BOXES ARE NOT INSTALLED BACK TO BACK, EXCEPT AS NOTED.



344 OUTLET BOX IN RATED WALL
SCALE: N.T.S.

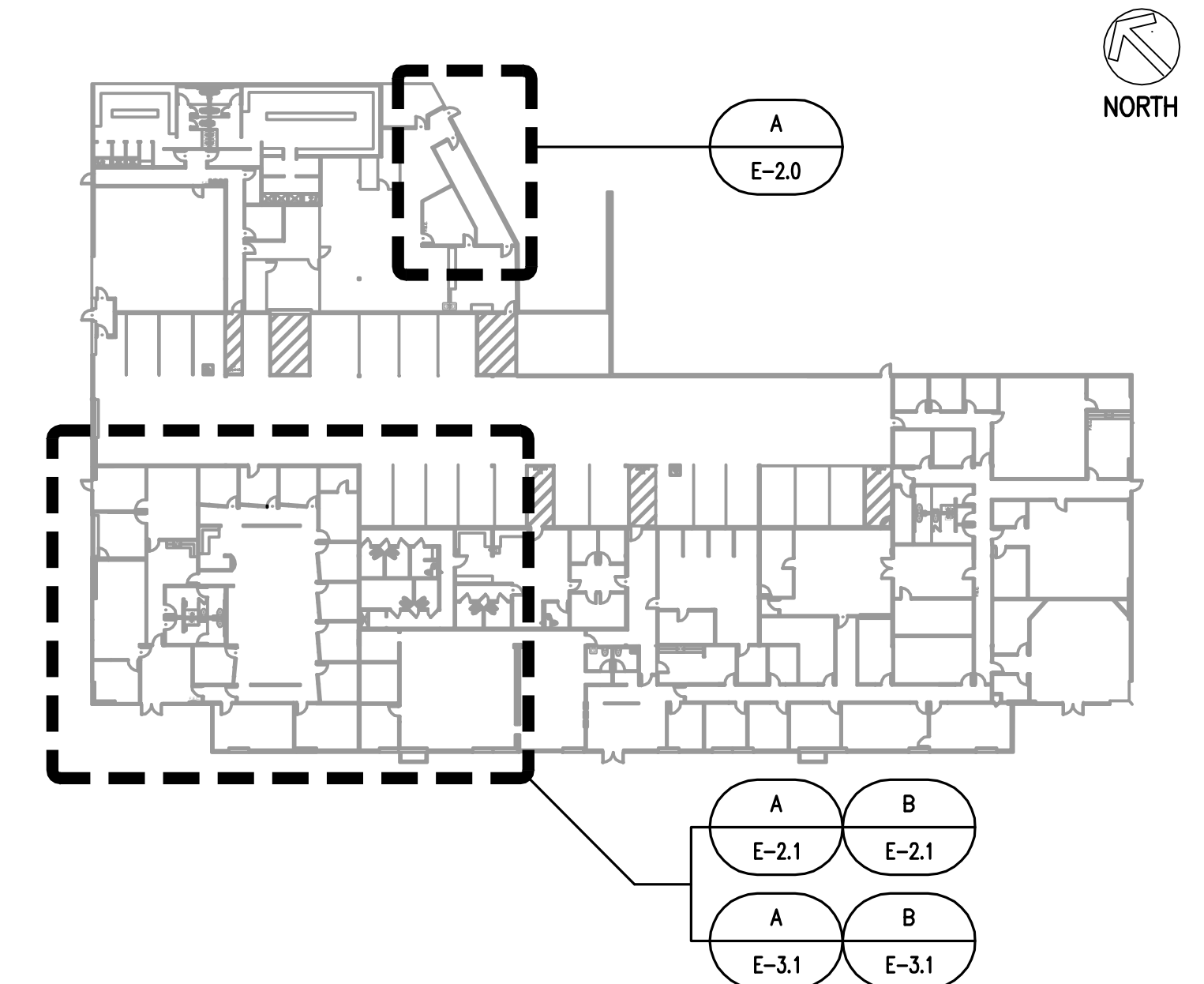


- NOTES:
- CONDUITS SHALL BE 0.75 INCH UNLESS OTHERWISE NOTED.
 - ALL MATERIALS AND WORK SHOWN ON THIS SHEET SHALL BE NEW UNLESS OTHERWISE NOTED OR INDICATED.
 - VERIFY EXACT DEVICE, OUTLET, FIXTURE, SURFACE AND EXPOSED RACEWAY LOCATIONS WITH THE ARCHITECT PRIOR TO COMMENCEMENT OF THE WORK.

SHEET NOTES

- REFER TO THE SINGLE LINE DIAGRAM ON E-1.1 FOR ADDITIONAL INFORMATION AND WORK WITHIN.

KEYPLAN



WALL LEGEND

- EXISTING CONSTRUCTION TO REMAIN (WALLS 25 GA 24"O.C.W/O INSUL.,TYP. PER RECORD DOCUMENTS)
- TYPE A:
NEW BLDG. STD. INTERIOR PARTITION TO THE UNDERSIDE OF CEILING. 3-5/8" METAL STUDS W/ 5/8" GYP. BD. SIDE AND ACOUSTICAL INSULATION. WALLS WITHOUT SYMBOLS ARE TYPE "A", TYP.
- EXISTING FULL HEIGHT, 2-HOUR FIRE-RATED/OCCUPANCY SEPARATION, METAL STUD PARTITION.
- EXISTING 40" HIGH CMU PARTITION WITH 6" METAL STUD INFILL ABOVE TO DECK: NON-STRUCTURAL

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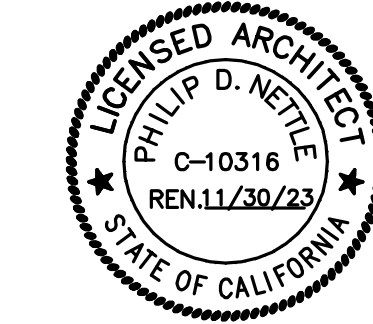
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DRAWING TITLE:

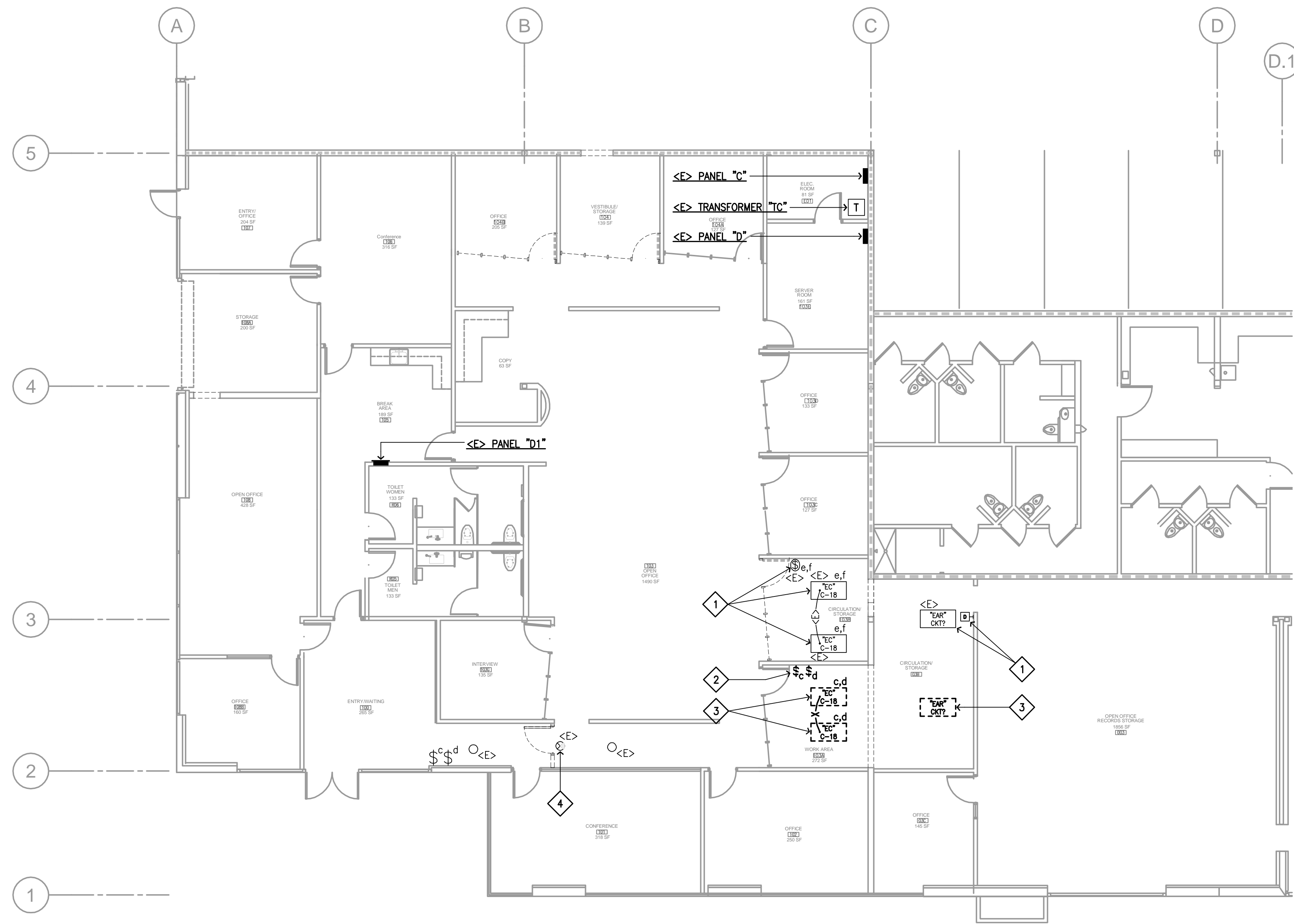
POWER PLANS

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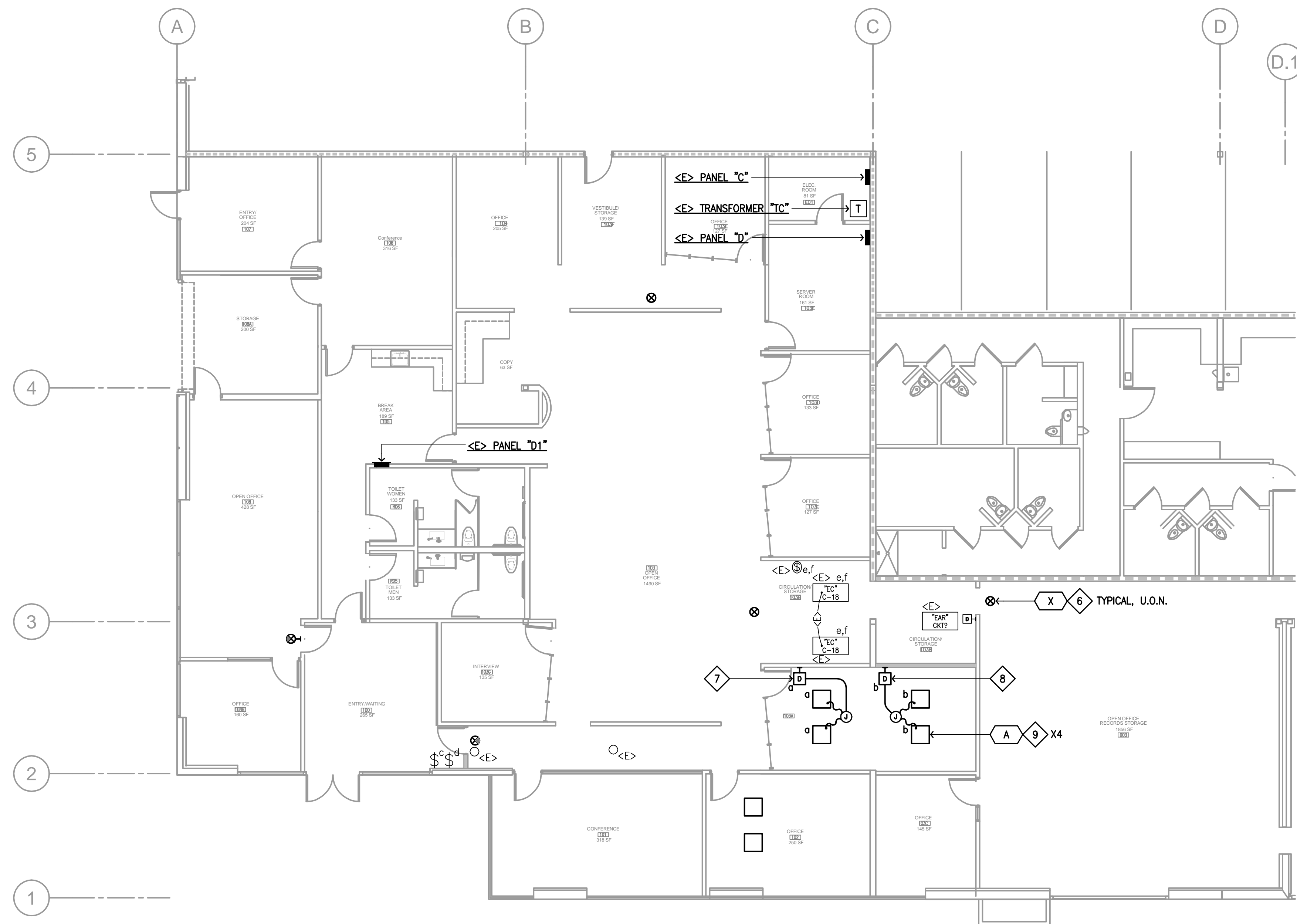
E-2.0

SCALE:

AS NOTED



A LIGHTING DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



B LIGHTING PLAN
SCALE: 1/8" = 1'-0"

SHEET NOTES

- EXISTING LIGHT FIXTURE AND ASSOCIATED SWITCHES REMAINING. NOT ALL SHOWN AND NOT LIMITED TO THOSE SHOWN WITH THIS SHEET NOTE TAG.
- REMOVE EXISTING PAIR SPST SWITCHES. SEE B/E-2.1 FOR NEW DEVICE IN EXISTING BOX.
- REMOVE EXISTING LIGHT FIXTURE AND TURN OVER TO THE OWNER.
- RELOCATE EXISTING EXIT SIGN FIXTURE. EXTEND EXISTING CIRCUIT TO THE NEW LOCATION.
- NEW LOCATION OF EXISTING EXIT SIGN FIXTURE IDENTIFIED TO BE RELOCATED PER PLAN A/E-2.1.
- NEW EXIT SIGN FIXTURE SHALL BE ALWAYS ON / UNSWITCHED. CONNECT TO THE NEAREST AVAILABLE CIRCUIT HAVING ADEQUATE CAPACITY FOR THE ADDITIONAL LOAD.
- NEW DIMMER IN EXISTING BOX WITH NEW CONDUCTORS TO THE NEW LIGHTS.
- NEW DIMMER IN NEW BOX WITH NEW CONDUCTORS TO THE NEW LIGHTS.
- CONNECT TO THE EXISTING LIGHTING CIRCUIT FROM THE EXISTING REMOVED FIXTURE.

NOTES:

- COORDINATE AND PROVIDE ALL ELECTRICAL DEMOLITION REQUIRED TO ALLOW FOR THE REMOVAL OF WALLS, ETC. WITH ALL OTHER TRADES.
- REFER TO DEMOLITION NOTES PORTION OF THE GENERAL NOTES. REFER TO NEW WORK PLANS FOR ADDITIONAL INFORMATION.

<N> LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION
A	2X2 CEILING RECESSED LED FIXTURE WITH SMOOTH SQUARE REFLECTOR, DIMMING TO 1%, INTEGRAL PIR SENSOR, WIRED N-LIGHT, MULTIVOLT, 4800 LUMENS, 3500 COLOR TEMP. LITHONIA #2BLT2-SMOOTH-STATIC-48L-SDSM-MVOLT-EZ1-LP935-N100-NE57 -OR APPROVED EQUAL. 42.9 INPUT WATTS
X	SINGLE FACE GREEN LETTERS EXIT SIGN FIXTURE WITH INTEGRAL BATTERY AND CHARGER TO PROVIDE MINIMUM ILLUMINATION IN THE EVENT OF THE LOSS OF UTILITY POWER. SHALL ALWAYS BE ON AND NOT SWITCHED. MULTIVOLT. LITHONIA #EXRG-EL-M6 -OR APPROVED EQUAL. 1.0 INPUT WATT

WALL LEGEND

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	TYPE A: NEW BLDG. STD. INTERIOR PARTITION TO THE UNDERSIDE OF CEILING. 3-5/8" METAL STUDS W/ 5/8" GYP. BD. SIDE AND ACOUSTICAL INSULATION. WALLS WITHOUT SYMBOLS ARE TYPE "A", TYP.
	EXISTING FULL HEIGHT, 2-HOUR FIRE-RATED/OCCUPANCY SEPARATION, METAL STUD PARTITION.
	EXISTING 40" HIGH CMU PARTITION WITH 6" METAL STUD INFILL ABOVE TO DECK: NON-STRUCTURAL

NOTES:

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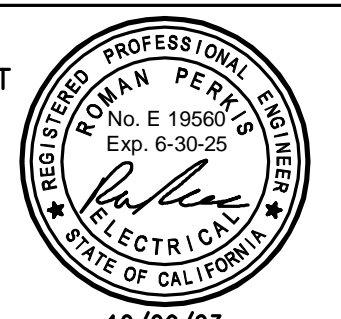
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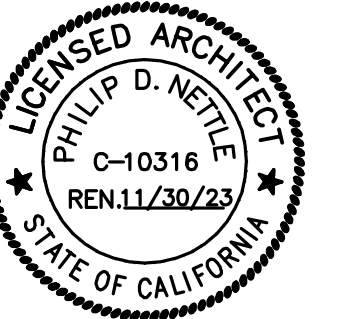
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10/06/23 SUBMIT FOR PLAN CHECK

DRAWING TITLE:

LIGHTING PLANS

DRAWING NO.:

E-2.1

SCALE: AS NOTED

ELECTRICAL SPECIFICATIONS

PART 1

SECTION 260519 – LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES

PART 1 – GENERAL

1.1 SUMMARY

A. SECTION INCLUDES:

- BUILDING WIRES AND CABLES RATED 600 V AND LESS.
- CONNECTORS, SPLICES, AND TERMINATIONS RATED 600 V AND LESS.

1.2 ACTION SUBMITTALS

A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT.

1.3 INFORMATIONAL SUBMITTALS

A. FIELD QUALITY-CONTROL REPORTS.

PART 2 – PRODUCTS

2.1 CONDUCTORS AND CABLES

A. COPPER CONDUCTORS: COMPLY WITH NEMA WC 70/ICEA S-95-658.

B. CONDUCTOR INSULATION: COMPLY WITH NEMA WC 70/ICEA S-95-658 FOR TYPE THHN-2-THWN-2.

2.2 CONNECTORS AND SPLICES

A. DESCRIPTION: FACTORY-FABRICATED CONNECTORS AND SPLICES OF SIZE, AMPACITY RATING, MATERIAL, TYPE, AND CLASS FOR APPLICATION AND SERVICE INDICATED.

2.3 SYSTEM DESCRIPTION

A. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.

B. COMPLY WITH NFPA 70.

PART 3 – EXECUTION

3.1 CONDUCTOR MATERIAL APPLICATIONS

A. FEEDERS: COPPER. SOLID FOR NO. 10 AWG AND SMALLER; STRANDED FOR NO. 8 AWG AND LARGER.

B. BRANCH CIRCUITS: COPPER. SOLID FOR NO. 12 AWG AND SMALLER; STRANDED FOR NO. 10 AWG AND LARGER.

3.2 CONDUCTOR INSULATION AND WIRING METHODS

A. FEEDERS: TYPE THHN-2-THWN-2, SINGLE CONDUCTORS IN RACEWAY.

B. BRANCH CIRCUITS: TYPE THHN-2-THWN-2, SINGLE CONDUCTORS IN RACEWAY, REDUNDANT GROUND METAL-CLAD CABLE, TYPE MC.

3.3 INSTALLATION OF CONDUCTORS AND CABLES

A. CONCEAL CABLES IN FINISHED WALLS, CEILINGS, AND FLOORS UNLESS OTHERWISE INDICATED.

B. COMPLETE RACEWAY INSTALLATION BETWEEN CONDUCTOR AND CABLE TERMINATION POINTS ACCORDING TO SECTION 260533 "RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS" PRIOR TO PULLING CONDUCTORS AND CABLES.

C. USE MANUFACTURER-APPROVED PULLING COMPOUND OR LUBRICANT WHERE NECESSARY; COMPOUND USED MUST NOT DETERIORATE CONDUCTOR OR INSULATION. DO NOT EXCEED MANUFACTURER'S RECOMMENDED MAXIMUM PULLING TENSIONS AND SIDEWALL PRESSURE VALUES.

D. USE PULLING MEANS, INCLUDING FISH TAPE, CABLE, ROPE, AND BASKET-WEAVE WIRE/CABLE GRIPS, THAT WILL NOT DAMAGE CABLES OR RACEWAY.

E. INSTALL EXPOSED CABLES PARALLEL AND PERPENDICULAR TO SURFACES OF EXPOSED STRUCTURAL MEMBERS, AND FOLLOW SURFACE CONTOURS WHERE POSSIBLE.

3.4 CONNECTIONS

A. TIGHTEN ELECTRICAL CONNECTORS AND TERMINALS ACCORDING TO MANUFACTURER'S PUBLISHED TORQUE-TIGHTENING VALUES. IF MANUFACTURER'S TORQUE VALUES ARE NOT INDICATED, USE THOSE SPECIFIED IN UL 486A-486B.

B. MAKE SPLICES, TERMINATIONS, AND TAPS THAT ARE COMPATIBLE WITH CONDUCTOR MATERIAL, AND THAT POSSESS EQUIVALENT OR BETTER MECHANICAL STRENGTH AND INSULATION RATINGS THAN UNSPLICED CONDUCTORS.

C. WIRING AT OUTLETS: INSTALL CONDUCTOR AT EACH OUTLET, WITH AT LEAST 12 INCHES OF SLACK.

3.5 IDENTIFICATION

A. IDENTIFY AND COLOR-CODE CONDUCTORS AND CABLES ACCORDING TO SECTION 260553 "IDENTIFICATION FOR ELECTRICAL SYSTEMS."

B. IDENTIFY EACH SPARE CONDUCTOR AT EACH END WITH IDENTITY NUMBER AND LOCATION OF OTHER END OF CONDUCTOR, AND IDENTIFY AS SPARE CONDUCTOR.

3.6 FIRESTOPPING

A. APPLY FIRESTOPPING TO ELECTRICAL PENETRATIONS OF FIRE-RATED FLOOR AND WALL ASSEMBLIES TO RESTORE ORIGINAL FIRE-RESISTANCE RATING OF ASSEMBLY.

3.7 FIELD QUALITY CONTROL

A. PERFORM THE FOLLOWING TESTS AND INSPECTIONS:

- PERFORM EACH VISUAL AND MECHANICAL INSPECTION AND ELECTRICAL TEST STATED IN NETA ACCEPTANCE TESTING SPECIFICATION. CERTIFY COMPLIANCE WITH TEST PARAMETERS.
- TEST AND INSPECTION REPORTS: PREPARE A WRITTEN REPORT TO RECORD THE FOLLOWING:
 - PROCEDURES USED.
 - RESULTS THAT COMPLY WITH REQUIREMENTS.
 - RESULTS THAT DO NOT COMPLY WITH REQUIREMENTS AND CORRECTIVE ACTION TAKEN TO ACHIEVE COMPLIANCE WITH REQUIREMENTS.
- CABLES WILL BE CONSIDERED DEFECTIVE IF THEY DO NOT PASS TESTS AND INSPECTIONS.

SECTION 260526 – GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

PART 1 – GENERAL

1.1 SUMMARY

A. SECTION INCLUDES: GROUNDING SYSTEMS AND EQUIPMENT.

1.2 ACTION SUBMITTALS

A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED.

1.3 INFORMATIONAL SUBMITTALS

A. FIELD QUALITY-CONTROL REPORTS.

1.4 QUALITY ASSURANCE

A. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.

B. COMPLY WITH UL 467 FOR GROUNDING AND BONDING MATERIALS AND EQUIPMENT.

PART 2 – PRODUCTS

2.1 CONDUCTORS

A. INSULATED CONDUCTORS: COPPER WIRE OR CABLE INSULATED FOR 600 V UNLESS OTHERWISE REQUIRED BY APPLICABLE CODE OR AUTHORITIES HAVING JURISDICTION.

B. BARE COPPER CONDUCTORS:

- SOLID CONDUCTORS: ASTM B 3.
- STRANDED CONDUCTORS: ASTM B 8.
- TINNED CONDUCTORS: ASTM B 33.
- BONDING CABLE: 28 KCMIL, 14 STRANDS OF NO. 17 AWG CONDUCTOR, 1/4 INCH IN DIAMETER.
- BONDING CONDUCTOR: NO. 4 OR NO. 6 AWG, STRANDED CONDUCTOR.

2.2 CONNECTORS

A. LISTED AND LABELED BY AN NRTL ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION FOR APPLICATIONS IN WHICH USED AND FOR SPECIFIC TYPES, SIZES, AND COMBINATIONS OF CONDUCTORS AND OTHER ITEMS CONNECTED.

PART 3 – EXECUTION

3.1 APPLICATIONS

A. CONDUCTORS: INSTALL SOLID CONDUCTOR FOR NO. 8 AWG AND SMALLER, AND STRANDED CONDUCTORS FOR NO. 6 AWG AND LARGER UNLESS OTHERWISE INDICATED.

B. CONDUCTOR TERMINATIONS AND CONNECTIONS:

- CONNECTIONS TO GROUND BUSS: BOLTED CONNECTORS.
- CONNECTIONS TO STRUCTURAL STEEL: WELDED CONNECTORS.

3.2 EQUIPMENT GROUNDING

A. INSTALL INSULATED EQUIPMENT GROUNDING CONDUCTORS IN ALL RACEWAYS CONTAINING CURRENT CARRYING CONDUCTORS.

3.3 INSTALLATION

A. GROUNDING CONDUCTORS: ROUTE ALONG SHORTEST AND STRAIGHTEST PATHS POSSIBLE UNLESS OTHERWISE INDICATED OR REQUIRED BY CODE. AVOID OBSTRUCTING ACCESS OR PLACING CONDUCTORS WHERE THEY MAY BE SUBJECTED TO STRAIN, IMPACT, OR DAMAGE.

3.4 LABELING

A. COMPLY WITH REQUIREMENTS IN SECTION 260553 "IDENTIFICATION FOR ELECTRICAL SYSTEMS" FOR INSTRUCTION SIGNS. THE LABEL OR ITS TEXT SHALL BE GREEN.

3.5 FIELD QUALITY CONTROL

A. PERFORM THE FOLLOWING TESTS AND INSPECTIONS AND PREPARE TEST REPORTS:

- AFTER INSTALLING GROUNDING SYSTEM BUT BEFORE PERMANENT ELECTRICAL CIRCUITS HAVE BEEN ENERGIZED, TEST FOR COMPLIANCE WITH REQUIREMENTS.
- INSPECT PHYSICAL AND MECHANICAL CONDITION. VERIFY TIGHTNESS OF ACCESSIBLE, BOLTED, ELECTRICAL CONNECTIONS WITH A CALIBRATED TORQUE WRENCH ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
- TEST COMPLETED GROUNDING SYSTEM AT EACH LOCATION WHERE A MAXIMUM GROUND-RESISTANCE LEVEL IS SPECIFIED.
- REPORT MEASURED GROUND RESISTANCES THAT EXCEED THE FOLLOWING VALUES:
 - POWER AND LIGHTING EQUIPMENT OR SYSTEM WITH CAPACITY OF 500 KVA AND LESS: 10 OHMS.
 - POWER AND LIGHTING EQUIPMENT OR SYSTEM WITH CAPACITY OF 500 TO 1000 KVA: 5 OHMS.
 - EXCESSIVE GROUND RESISTANCE: IF RESISTANCE TO GROUND EXCEEDS SPECIFIED VALUES, NOTIFY ARCHITECT PROMPTLY AND INCLUDE RECOMMENDATIONS TO REDUCE GROUND RESISTANCE.

SECTION 260533 – RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS

PART 1 – GENERAL

1.1 SUMMARY

A. SECTION INCLUDES:

- METAL CONDUITS, TUBING, AND FITTINGS.
- METAL WIREWAYS AND AUXILIARY GUTTERS.
- SURFACE RACEWAYS.
- BOXES, ENCLOSURES, AND CABINETS.

1.2 ACTION SUBMITTALS

A. PRODUCT DATA: FOR SURFACE RACEWAYS, WIREWAYS AND FITTINGS.

PART 2 – PRODUCTS

2.1 METAL CONDUITS, TUBING, AND FITTINGS

A. LISTING AND LABELING: METAL CONDUITS, TUBING, AND FITTINGS SHALL BE LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.

B. EMT: COMPLY WITH ANSI C80.3 AND UL 797.

C. FITTINGS FOR METAL CONDUIT: COMPLY WITH NEMA FB 1 AND UL 514B.

D. FITTINGS FOR EMT:

- MATERIAL: STEEL DIE CAST.
- TYPE: SETSCREW.

2.2 METAL WIREWAYS AND AUXILIARY GUTTERS

A. DESCRIPTION: SHEET METAL, COMPLYING WITH UL 870 AND NEMA 250, TYPE 1 UNLESS OTHERWISE INDICATED, AND SIZED ACCORDING TO NFPA 70.

B. SHEET METAL OUTLET AND DEVICE BOXES: COMPLY WITH NEMA OS 1 AND UL 514A.

C. SMALL SHEET METAL PULL AND JUNCTION BOXES: NEMA OS 1.

D. BOX EXTENSIONS USED TO ACCOMMODATE NEW BUILDING FINISHES SHALL BE OF SAME MATERIAL AS RECESSED BOX.

E. DEVICE BOX DIMENSIONS: MINIMUM 4 INCHES SQUARE BY 2-1/8 INCHES DEEP.

PART 3 – EXECUTION

3.1 RACEWAY APPLICATION

A. INDOORS: APPLY RACEWAY PRODUCTS AS SPECIFIED BELOW UNLESS OTHERWISE INDICATED.

- EXPOSED, NOT SUBJECT TO PHYSICAL DAMAGE: EMT.
- CONCEALED IN CEILINGS AND INTERIOR WALLS AND PARTITIONS: EMT.
- CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, ELECTRIC SOLENOID, OR MOTOR-DRIVEN EQUIPMENT): FMC, EXCEPT USE LFMC IN DAMP OR WET LOCATIONS.
- BOXES AND ENCLOSURES: NEMA 250, TYPE 1.
- MINIMUM RACEWAY SIZE: 3/4-INCH TRADE SIZE.
- RACEWAY FITTINGS: COMPATIBLE WITH RACEWAYS AND SUITABLE FOR USE AND LOCATION.
- EMT: USE SETSCREW, STEEL FITTINGS. COMPLY WITH NEMA FB 2.10.
- FLEXIBLE CONDUIT: USE ONLY FITTINGS LISTED FOR USE WITH FLEXIBLE CONDUIT. COMPLY WITH NEMA FB 2.20.
- INSTALL SURFACE RACEWAYS ONLY WHERE INDICATED ON DRAWINGS.

3.2 INSTALLATION

A. COMPLY WITH NECA 1 AND NECA 101 FOR INSTALLATION REQUIREMENTS EXCEPT WHERE REQUIREMENTS ON DRAWINGS OR IN THIS ARTICLE ARE STRICTER. COMPLY WITH NFPA 70 LIMITATIONS FOR TYPES OF RACEWAYS ALLOWED IN SPECIFIC OCCUPANCIES AND NUMBER OF FLOORS.

B. KEEP RACEWAYS AT LEAST 6 INCHES AWAY FROM PARALLEL RUNS OF FLUES AND STEAM OR HOT-WATER PIPES. INSTALL HORIZONTAL RACEWAY RUNS ABOVE WATER AND STEAM PIPING.

C. INSTALL NO MORE THAN THE EQUIVALENT OF THREE 90-DEGREE BENDS IN ANY CONDUIT RUN EXCEPT FOR CONTROL WIRING CONDUITS, FOR WHICH FEWER BENDS ARE ALLOWED. SUPPORT WITHIN 12 INCHES OF CHANGES IN DIRECTION.

D. CONCEAL CONDUIT AND EMT WITHIN FINISHED WALLS, CEILINGS, AND FLOORS UNLESS OTHERWISE INDICATED. INSTALL CONDUITS PARALLEL OR PERPENDICULAR TO BUILDING LINES.

E. SUPPORT CONDUIT WITHIN 12 INCHES OF ENCLOSURES TO WHICH ATTACHED.

F. STUB-UPS TO ABOVE, RECESSED CEILINGS:

- USE EMT FOR RACEWAYS.
- USE A CONDUIT BUSHING OR INSULATED FITTING TO TERMINATE STUB-UPS NOT TERMINATED IN HUBS OR IN AN ENCLOSURE.
- INSTALL PULL WIRES IN EMPTY RACEWAYS. USE POLYPROPYLENE OR MONOFILAMENT PLASTIC LINE WITH NOT LESS THAN 200-LB TENSILE STRENGTH. LEAVE AT LEAST 12 INCHES OF SLACK AT EACH END OF PULL WIRE.
- MOUNT BOXES AT HEIGHTS INDICATED ON DRAWINGS. IF MOUNTING HEIGHTS OF BOXES ARE NOT INDIVIDUALLY INDICATED, GIVE PRIORITY TO ADA REQUIREMENTS.
- HORIZONTALLY SEPARATE BOXES MOUNTED ON OPPOSITE SIDES OF WALLS SO THEY ARE NOT IN THE SAME VERTICAL CHANNEL.
- SUPPORT BOXES OF THREE GANGS OR MORE FROM MORE THAN ONE SIDE BY SPANNING TWO FRAMING MEMBERS OR MOUNTING ON BRACKETS SPECIFICALLY DESIGNED FOR THE PURPOSE.
- FASTEN JUNCTION AND PULL BOXES TO OR SUPPORT FROM BUILDING STRUCTURE. DO NOT SUPPORT BOXES BY CONDUIT.

3.3 FIRESTOPPING

A. INSTALL FIRESTOPPING AT PENETRATIONS OF FIRE-RATED FLOOR AND WALL ASSEMBLIES. COMPLY WITH REQUIREMENTS IN "HOSPITAL WORK NOTES" ON THE DRAWINGS.

3.4 PROTECTION

A. PROTECT COATINGS, FINISHES, AND CABINETS FROM DAMAGE AND DETERIORATION.

- REPAIR DAMAGE TO GALVANIZED FINISHES WITH ZINC-RICH PAINT RECOMMENDED BY MANUFACTURER.
- REPAIR DAMAGE TO PVC COATINGS OR PAINT FINISHES WITH MATCHING TOUCHUP COATING RECOMMENDED BY MANUFACTURER.

SECTION 260553 – IDENTIFICATION FOR ELECTRICAL SYSTEMS

PART 1 – GENERAL

1.1 SUMMARY

A. SECTION INCLUDES:

- IDENTIFICATION FOR RACEWAYS.
- IDENTIFICATION OF POWER AND CONTROL CABLES.
- IDENTIFICATION FOR CONDUCTORS.
- WARNING LABELS AND SIGNS.
- MISCELLANEOUS IDENTIFICATION PRODUCTS.

1.2 ACTION SUBMITTALS

A. PRODUCT DATA: FOR EACH ELECTRICAL IDENTIFICATION PRODUCT INDICATED.

1.3 QUALITY ASSURANCE

A. COMPLY WITH ANSI A13.1.

B. COMPLY WITH NFPA 70.

C. COMPLY WITH 29 CFR 1910.144 AND 29 CFR 1910.145.

D. COMPLY WITH ANSI Z535.4 FOR SAFETY SIGNS AND LABELS.

E. ADHESIVE-ATTACHED LABELING MATERIALS, INCLUDING LABEL STOCKS, LAMINATING ADHESIVES, AND INKS USED BY LABEL PRINTERS, SHALL COMPLY WITH UL 969.

PART 2 – PRODUCTS

2.1 CONDUCTOR IDENTIFICATION MATERIALS

A. COLOR-CODING CONDUCTOR TAPE: COLORED, SELF-ADHESIVE VINYL TAPE NOT LESS THAN 3 MILS THICK BY 1 TO 2 INCHES WIDE.

B. SELF-ADHESIVE VINYL LABELS: PREPRINTED, FLEXIBLE LABEL LAMINATED WITH A CLEAR WEATHER- AND CHEMICAL-RESISTANT COATING AND MATCHING WRAPAROUND ADHESIVE TAPE FOR SECURING ENDS OF LEGEND LABEL.

C. MARKER TAPES: VINYL OR VINYL-CLOTH, SELF-ADHESIVE WRAPAROUND TYPE, WITH CIRCUIT IDENTIFICATION LEGEND MACHINE PRINTED BY THERMAL TRANSFER OR EQUIVALENT PROCESS.

2.2 WARNING LABELS AND SIGNS

A. COMPLY WITH NFPA 70 AND 29 CFR 1910.145.

B. SELF-ADHESIVE WARNING LABELS: FACTORY-PRINTED, MULTICOLOR, PRESSURE-SENSITIVE ADHESIVE LABELS, CONFIGURED FOR DISPLAY ON FRONT AND COVER, DOOR, OR OTHER ACCESS TO EQUIPMENT UNLESS OTHERWISE INDICATED.

C. BAKED-ENAMEL WARNING SIGNS:

- PREPRINTED ALUMINUM SIGNS, PUNCHED OR DRILLED FOR FASTENERS, WITH COLORS, LEGEND, AND SIZE REQUIRED FOR APPLICATION.
- 1/4-INCH GROMMETS IN CORNERS FOR MOUNTING.
- NOMINAL SIZE, 7 BY 10 INCHES.
- WARNING LABEL AND SIGN SHALL INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING LEGENDS:
 - MULTIPLE POWER SOURCE WARNING: "DANGER – ELECTRICAL SHOCK HAZARD – EQUIPMENT HAS MULTIPLE POWER SOURCES."

FIRST SUBPARAGRAPH BELOW APPLIES TO OSHA REQUIREMENTS FOR BUILDING OPERATIONS AND DOES NOT REFLECT THE CLEAR WORKING SPACE REQUIRED BY NFPA 70.

2.3 WORKSPACE CLEARANCE WARNING: "WARNING – OSHA REGULATION – AREA IN FRONT OF ELECTRICAL EQUIPMENT MUST BE KEPT CLEAR FOR 36 INCHES."

2.3 EQUIPMENT IDENTIFICATION LABELS

A. ADHESIVE FILM LABEL WITH CLEAR PROTECTIVE OVERLAY: MACHINE PRINTED, IN BLACK, BY THERMAL TRANSFER OR EQUIVALENT PROCESS. MINIMUM LETTER HEIGHT SHALL BE 3/8 INCH. OVERLAY SHALL PROVIDE A WEATHERPROOF AND UV-RESISTANT SEAL FOR LABEL PROTECTION.

B. SELF-ADHESIVE, ENGRAVED, LAMINATED ACRYLIC OR MELAMINE LABEL: ADHESIVE BACKED, WITH WHITE LETTERS ON A DARK-GRAY BACKGROUND. MINIMUM LETTER HEIGHT SHALL BE 3/8 INCH (10 MM). RETAIN PARAGRAPH BELOW TO SPECIFY TYPE OF LABEL FOR IDENTIFYING OUTDOOR EQUIPMENT IF SPECIFIED IN "IDENTIFICATION SCHEDULE" ARTICLE.

PART 3 – EXECUTION

3.1 INSTALLATION

A. LOCATION: INSTALL IDENTIFICATION MATERIALS AND DEVICES AT LOCATIONS FOR MOST CONVENIENT VIEWING WITHOUT INTERFERENCE WITH OPERATION AND MAINTENANCE OF EQUIPMENT.

B. APPLY IDENTIFICATION DEVICES TO SURFACES THAT REQUIRE FINISH AFTER COMPLETING FINISH WORK.

C. SELF-ADHESIVE IDENTIFICATION PRODUCTS: CLEAN SURFACES BEFORE APPLICATION, USING MATERIALS AND METHODS RECOMMENDED BY MANUFACTURER OF IDENTIFICATION DEVICE.

D. ATTACH SIGNS AND PLASTIC LABELS THAT ARE NOT SELF-ADHESIVE TYPE WITH MECHANICAL FASTENERS APPROPRIATE TO THE LOCATION AND SUBSTRATE.

3.2 IDENTIFICATION SCHEDULE

SPECIFY THAT COLORS FOR FACTORY-ASSEMBLED CABLE, SUCH AS MC AND AC, MUST MATCH COLORS LISTED IN FIRST PARAGRAPH BELOW.

A. POWER-CIRCUIT CONDUCTOR IDENTIFICATION, 600 V OR LESS: FOR CONDUCTORS IN VAULTS, PULL AND JUNCTION BOXES, MANHOLES, AND HANDHOLES, USE COLOR-CODING CONDUCTOR TAPE TO IDENTIFY THE PHASE.

- COLOR-CODING FOR PHASE AND VOLTAGE LEVEL IDENTIFICATION, 600 V OR LESS: USE COLORS LISTED BELOW FOR UNGROUNDING FEEDER AND BRANCH-CIRCUIT CONDUCTORS.
 - COLOR SHALL BE FACTORY APPLIED OR FIELD APPLIED FOR SIZES LARGER THAN NO. 8 AWG, IF AUTHORITIES HAVING JURISDICTION PERMIT.
- COLORS FOR 208/120-V CIRCUITS:
 - PHASE A: BLACK.
 - PHASE B: RED.
 - PHASE C: BLUE.
- COLORS FOR 480/277-V CIRCUITS:
 - PHASE A: BROWN.
 - PHASE B: ORANGE.
 - PHASE C: YELLOW.
- FIELD-APPLIED, COLOR-CODING CONDUCTOR TAPE: APPLY IN HALF-LAPPED TURNS FOR A MINIMUM DISTANCE OF 6 INCHES FROM TERMINAL POINTS AND IN BOXES WHERE SPLICES OR TAPS ARE MADE. APPLY LAST TWO TURNS OF TAPE WITH NO TENSION TO PREVENT POSSIBLE COORDINATE PARAGRAPH BELOW WITH ELECTRICAL SECTIONS. DELETE ITEMS NOT IN PROJECT.
- EQUIPMENT IDENTIFICATION LABELS: ON EACH UNIT OF EQUIPMENT, INSTALL UNIQUE DESIGNATION LABEL THAT IS CONSISTENT WITH WIRING DIAGRAMS, SCHEDULES, AND THE OPERATION AND MAINTENANCE MANUAL. APPLY LABELS TO DISCONNECT SWITCHES AND PROTECTION EQUIPMENT, CENTRAL OR MASTER UNITS, CONTROL PANELS, CONTROL STATIONS, TERMINAL CABINETS, AND RACKS OF EACH SYSTEM. SYSTEMS INCLUDE POWER, LIGHTING, CONTROL, COMMUNICATION, SIGNAL, MONITORING, AND ALARM SYSTEMS UNLESS EQUIPMENT IS PROVIDED WITH ITS OWN IDENTIFICATION.
- LABELING INSTRUCTIONS:
 - INDOOR EQUIPMENT: SELF-ADHESIVE, ENGRAVED, LAMINATED ACRYLIC OR MELAMINE LABEL. UNLESS OTHERWISE INDICATED, PROVIDE A SINGLE LINE OF TEXT WITH 1/2-INCH- HIGH LETTERS ON 1-1/2-INCH- HIGH LABEL; WHERE TWO LINES OF TEXT ARE REQUIRED, USE LABELS 2 INCHES HIGH.
 - UNLESS PROVIDED WITH SELF-ADHESIVE MEANS OF ATTACHMENT, FASTEN LABELS WITH APPROPRIATE MECHANICAL FASTENERS THAT DO NOT CHANGE THE NEMA OR NRTL RATING OF THE ENCLOSURE.

SECTION 260923 – LIGHTING CONTROL DEVICES

PART 1 – GENERAL

1.1 SUMMARY

A. SECTION INCLUDES:

- INDOOR OCCUPANCY AND VACANCY SENSORS.
- DIGITAL WALL CONTROL STATIONS.
- CONDUCTORS AND CABLES.

1.2 ACTION SUBMITTALS

A. PRODUCT DATA:

- INDOOR OCCUPANCY AND VACANCY SENSORS.
- SWITCHBOX-MOUNTED OCCUPANCY SENSORS.
- DIGITAL WALL CONTROL STATIONS.
- CONDUCTORS AND CABLES.

1.3 SHOP DRAWINGS:

A. PROVIDE INSTALLATION DETAILS FOR THE FOLLOWING:

- OCCUPANCY SENSORS.
- INTERCONNECTION DIAGRAMS INDICATING FIELD-INSTALLED WIRING.
- INCLUDE DIAGRAMS FOR POWER, SIGNAL, AND CONTROL WIRING.
- FIELD QUALITY-CONTROL REPORTS.

1.4 INFORMATIONAL SUBMITTALS

A. SAMPLE WARRANTY: FOR MANUFACTURER'S WARRANTIES.

B. WARRANTY

- SPECIAL EXTENDED WARRANTY: MANUFACTURER AND INSTALLER WARRANT THAT INSTALLED LIGHTING CONTROL DEVICES PERFORM IN ACCORDANCE WITH SPECIFIED REQUIREMENTS AND AGREE TO REPAIR OR REPLACE, INCLUDING LABOR, MATERIALS, AND EQUIPMENT, DEVICES THAT FAIL TO PERFORM AS SPECIFIED WITHIN EXTENDED WARRANTY PERIOD.
- AND FAILURES INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
 - FAULTY OPERATION OF LIGHTING CONTROL SOFTWARE.
 - FAULTY OPERATION OF LIGHTING CONTROL DEVICES.
 - EXTENDED WARRANTY PERIOD: FIVE YEAR(S) FROM DATE OF SHIPMENT.

PART 2 – PRODUCTS

2.1 INDOOR OCCUPANCY AND VACANCY SENSORS

A. GENERAL REQUIREMENTS FOR SENSORS:

- BUILT INTO THE LIGHT FIXTURES (N-LIGHT TECHNOLOGY) AS SPECIFIED IN THE "NEW LIGHT FIXTURE SCHEDULE".
- SWITCHBOX-MOUNTED OCCUPANCY AND CABLES."
- LISTED AND LABELED IN ACCORDANCE WITH NFPA 70, BY A QUALIFIED ELECTRICAL TESTING LABORATORY RECOGNIZED BY AUTHORITIES HAVING JURISDICTION AND MARKED FOR INTENDED LOCATION AND APPLICATION.

B. OPERATION

- OCCUPANCY SENSOR: UNLESS OTHERWISE INDICATED, TURN LIGHTS ON WHEN COVERAGE AREA IS OCCUPIED, AND TURN THEM OFF WHEN UNOCCUPIED; WITH A TIME DELAY FOR TURNING LIGHTS OFF, ADJUSTABLE OVER A MINIMUM RANGE OF 1 TO 15 MINUTES.

2.2 DIGITAL WALL CONTROL STATIONS

A. DESCRIPTION: MANUAL CONTROLS FOR ON/OFF, DIMMING AND LIGHTING SCENE SELECTION COMPATIBLE WITH OCCUPANCY AND PHOTOSENSOR CONTROL POWER PACKS ALLOWING USER OVERRIDE OF INDOOR ELECTRICAL LIGHTING LEVELS.

B. WIRED, DIGITAL WALL CONTROLS:

- BASE-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE NULIGHT; ACUTY BRANDS LIGHTING, INC.; MODEL NP00MA OR COMPARABLE PRODUCT BY ONE OF THE FOLLOWING:
 - COOPER INDUSTRIES, INC.
 - LEVITON MANUFACTURING CO., INC.
- MAXIMUM HUMIDITY: 80 PERCENT, NON-CONDENSING.
- SWITCH OUTPUT: DIGITAL SIGNAL COMPATIBLE WITH POWER PACK.
- WIRING: TWO RJ-45 PORTS FOR CATEGORY 5E, UTP WIRING TO POWER PACK.
- COLOR: WHITE AND RED.

2.3 CONDUCTORS AND CABLES

A. POWER WIRING TO SUPPLY SIDE OF REMOTE-CONTROL POWER SOURCES: NOT SMALLER THAN NO. 12 AWG. COMPLY WITH REQUIREMENTS IN SECTION 260519 "LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES."

B. CLASSES 2 AND 3 CONTROL CABLE: MULTICONDUCTOR CABLE WITH STRANDED-COPPER CONDUCTORS NOT SMALLER THAN [NO. 18] [NO. 22] [NO. 24] AWG. COMPLY WITH REQUIREMENTS IN SECTION 260519 "LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES."

C. CLASS 1 CONTROL CABLE: MULTICONDUCTOR CABLE WITH STRANDED-COPPER CONDUCTORS.

PART 3 – EXECUTION

3.1 EXAMINATION

A. EXAMINE LIGHTING CONTROL DEVICES BEFORE INSTALLATION. REJECT LIGHTING CONTROL DEVICES THAT ARE WET, MOISTURE DAMAGED, OR MOLD DAMAGED.

B. EXAMINE WALLS AND CEILINGS FOR SUITABLE CONDITIONS WHERE LIGHTING CONTROL DEVICES WILL BE INSTALLED.

C. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

3.2 INSTALLATION OF WIRING

A. WIRING METHOD: COMPLY WITH SECTION 260519 "LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES." MINIMUM CONDUIT SIZE IS 0.75 INCH.

B. WIRING WITHIN ENCLOSURES: SEPARATE POWER-LIMITED AND NONPOWER-LIMITED CONDUCTORS IN ACCORDANCE WITH CONDUCTOR MANUFACTURER'S INSTRUCTIONS.

C. SIZE CONDUCTORS IN ACCORDANCE WITH LIGHTING CONTROL DEVICE MANUFACTURER'S INSTRUCTIONS UNLESS OTHERWISE INDICATED.

3.3 SPLICES, TAPS, AND TERMINATIONS: MAKE CONNECTIONS ONLY ON NUMBERED TERMINAL STRIPS IN JUNCTION, PULL, DEVICE, AND OUTLET BOXES; TERMINAL CABINETS; AND EQUIPMENT ENCLOSURES.

3.4 IDENTIFICATION

A. IDENTIFY COMPONENTS AND POWER AND CONTROL WIRING IN ACCORDANCE WITH SECTION 260553 "IDENTIFICATION FOR ELECTRICAL SYSTEMS.

B. LABEL TIME SWITCHES AND CONTACTORS WITH A UNIQUE DESIGNATION.

3.5 FIELD QUALITY CONTROL

A. FIELD TESTS MUST BE WITNESSED BY THE IOR.

B. TESTS AND INSPECTIONS:

- OPERATIONAL TEST: AFTER INSTALLING TIME SWITCHES AND SENSORS, AND AFTER ELECTRICAL CIRCUITRY HAS BEEN ENERGIZED, START UNITS TO CONFIRM PROPER UNIT OPERATION.
- TEST AND ADJUST CONTROLS AND SAFETIES. REPLACE DAMAGED AND MALFUNCTIONING CONTROLS AND EQUIPMENT.

3.6 NONCONFORMING WORK:

A. LIGHTING CONTROL DEVICES WILL BE CONSIDERED DEFECTIVE IF THEY DO NOT PASS TESTS AND INSPECTIONS.

B. REMOVE AND REPLACE DEFECTIVE UNITS AND RETEST.

C. PREPARE TEST AND INSPECTION REPORTS.

3.7 ADJUSTING

A. OCCUPANCY ADJUSTMENTS: WHEN REQUESTED WITHIN 6 MONTHS FROM DATE OF SUBSTANTIAL COMPLETION, PROVIDE ON-SITE ASSISTANCE IN ADJUSTING LIGHTING CONTROL DEVICES TO SUIT ACTUAL OCCUPIED CONDITIONS. PROVIDE UP TO TWO VISITS TO PROJECT DURING OTHER-THAN-NORMAL OCCUPANCY HOURS FOR THIS PURPOSE.

B. FOR OCCUPANCY AND MOTION SENSORS, VERIFY OPERATION AT OUTER LIMITS OF DETECTOR RANGE. SET TIME DELAY TO SUIT OWNER'S OPERATIONS.

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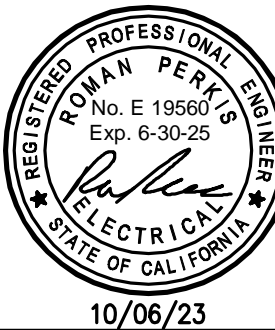


Project No. 23104

* READ THE SPECIFICATIONS !

READ THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. IN CASE OF CONFLICT BETWEEN SPECIFICATIONS AND DRAWINGS THE MORE RESTRICTIVE REQUIREMENTS SHALL TAKE PRECEDENCE.

THIS DRAWING AND THE DESIGN HEREON ARE INTENDED FOR THIS ONE SPECIFIC PROJECT ONLY. ANY USE OR RE-USE BEYOND THIS ONE PROJECT IS THE SOLE RESPONSIBILITY OF THE USER.



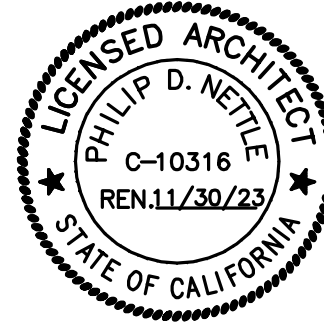
ALTHOUGH A "SCALE" MAY BE INDICATED, THE INFORMATION ON THIS DRAWING IS APPROXIMATE AND DIAGRAMMATIC ONLY, AND SHALL NOT BE SCALED TO OBTAIN DISTANCES. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING THE INTENT AND USE OF THESE DRAWINGS.

10/06/23



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08/25/23

10/06/23 SUBMIT FOR PLAN CHECK

DRAWING TITLE:

ELECTRICAL
SPECIFICATIONS
PART 1

DRAWING NO.:

E-4.1

SCALE:

AS NOTED

ELECTRICAL SPECIFICATIONS

PART 2

SECTION 262726 – WIRING DEVICES

PART 1 – GENERAL

1.1 SUMMARY

A. SECTION INCLUDES:

1. GENERAL–USE SWITCHES, DIMMER SWITCHES, AND FAN–SPEED CONTROLLER SWITCHES.

2. GENERAL–GRADE SINGLE STRAIGHT–BLADE RECEPTACLES.

3. GENERAL–GRADE DUPLEX STRAIGHT–BLADE RECEPTACLES.

4. HOSPITAL–GRADE STRAIGHT–BLADE RECEPTACLES.

5. SPECIAL–PURPOSE POWER OUTLET ASSEMBLIES.

B. PRODUCT DATA:

1. SWITCHES.

2. DIMMER SWITCHES.

3. SINGLE STRAIGHT–BLADE RECEPTACLES

4. DUPLEX STRAIGHT–BLADE RECEPTACLES.

5. HOSPITAL–GRADE STRAIGHT–BLADE RECEPTACLES.

6. RECEPTACLES WITH GFCI DEVICE.

7. LOCKING RECEPTACLES.

1.2 INFORMATIONAL SUBMITTALS

A. MANUFACTURERS' INSTRUCTIONS: RECORD COPY OF OFFICIAL INSTALLATION AND TESTING INSTRUCTIONS ISSUED TO INSTALLER BY MANUFACTURER FOR THE FOLLOWING:

1. DIMMERS.

2. SINGLE STRAIGHT–BLADE RECEPTACLES.

3. DUPLEX STRAIGHT–BLADE RECEPTACLES.

4. HOSPITAL–GRADE STRAIGHT–BLADE RECEPTACLES.

5. RECEPTACLES WITH GFCI DEVICE.

6. LOCKING RECEPTACLES.

1.3 WARRANTY FOR DEVICES

A. SPECIAL MANUFACTURER EXTENDED WARRANTY: MANUFACTURER WARRANTS THAT DEVICES PERFORM IN ACCORDANCE WITH SPECIFIED REQUIREMENTS AND AGREES TO PROVIDE REPAIR OR REPLACEMENT OF DEVICES THAT FAIL TO PERFORM AS SPECIFIED WITHIN EXTENDED WARRANTY PERIOD.

1. WARRANTY PERIOD: MINIMUM OF TWO YEARS FROM DATE OF SUBSTANTIAL COMPLETION; PRORATED COVERAGE FOR LABOR, MATERIALS, AND EQUIPMENT.

PART 2 – PRODUCTS

2.1 GENERAL–USE SWITCHES, AND DIMMER SWITCHES

A. TOGGLE SWITCH:

1. REFER TO THE SYMBOL LIST ON THE DRAWINGS.

2. REGULATORY REQUIREMENTS:

A. LISTED AND LABELED IN ACCORDANCE WITH NFPA 70, BY QUALIFIED ELECTRICAL TESTING LABORATORY RECOGNIZED BY AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED LOCATION AND APPLICATION.

3. GENERAL CHARACTERISTICS:

A. REFERENCE STANDARDS: UL CCN WMUJZ AND UL 20.

4. OPTIONS:

A. DEVICE COLOR: MATCH THE EXISTING IN THE FACILITY.

5. ACCESSORIES:

A. COVER PLATE: 0.060 INCH (1.5 MM) THICK, HIGH–IMPACT THERMOPLASTIC (NYLON) WITH SMOOTH FINISH AND COLOR MATCHING WIRING DEVICE; FROM SAME MANUFACTURER AS WIRING DEVICE.

B. TYPE 1 DIMMER SWITCH:

1. REFER TO THE SYMBOL LIST ON THE DRAWINGS.

2. REGULATORY REQUIREMENTS:

A. LISTED AND LABELED IN ACCORDANCE WITH NFPA 70, BY QUALIFIED ELECTRICAL TESTING LABORATORY RECOGNIZED BY AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED LOCATION AND APPLICATION.

3. GENERAL CHARACTERISTICS:

A. REFERENCE STANDARDS: UL CCN EODYX AND UL 1472 TYPE 1 DIMMER.

4. OPTIONS:

A. DEVICE COLOR: MATCH FACILITY EXISTING COLORS..

5. ACCESSORIES:

A. COVER PLATE: 0.060 INCH (1.5 MM) THICK, HIGH–IMPACT THERMOPLASTIC (NYLON) WITH SMOOTH FINISH AND COLOR MATCHING WIRING DEVICE; FROM SAME MANUFACTURER AS WIRING DEVICE.

B. SECURING SCREWS FOR COVER PLATE: METAL WITH HEAD COLOR MATCHING WALLPLATE FINISH.

2.2 GENERAL–GRADE SINGLE STRAIGHT–BLADE RECEPTACLES

A. SINGLE STRAIGHT–BLADE RECEPTACLE:

1. REFER TO THE SYMBOL LIST ON THE DRAWINGS

2. REGULATORY REQUIREMENTS:

A. LISTED AND LABELED IN ACCORDANCE WITH NFPA 70, BY QUALIFIED ELECTRICAL TESTING LABORATORY RECOGNIZED BY AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED LOCATION AND APPLICATION.

3. GENERAL CHARACTERISTICS:

A. REFERENCE STANDARDS: UL CCN RTRT AND UL 498.

4. OPTIONS:

A. DEVICE COLOR: MATCH THE FACILITY EXISTING.

5. ACCESSORIES:

A. COVER PLATE: 0.060 INCH (1.5 MM) THICK, HIGH–IMPACT THERMOPLASTIC (NYLON) WITH SMOOTH FINISH AND COLOR MATCHING WIRING DEVICE; FROM SAME MANUFACTURER AS WIRING DEVICE.

B. SECURING SCREWS FOR COVER PLATE: METAL WITH HEAD COLOR MATCHING WALLPLATE FINISH.

2.3 GENERAL–GRADE DUPLEX STRAIGHT–BLADE RECEPTACLES

B. DUPLEX STRAIGHT–BLADE RECEPTACLE:

1. REFER TO THE SYMBOL LIST ON THE DRAWINGS

2. REGULATORY REQUIREMENTS:

A. LISTED AND LABELED IN ACCORDANCE WITH NFPA 70, BY QUALIFIED ELECTRICAL TESTING LABORATORY RECOGNIZED BY AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED LOCATION AND APPLICATION.

3. GENERAL CHARACTERISTICS:

A. REFERENCE STANDARDS: UL CCN RTRT AND UL 498.

4. OPTIONS:

A. DEVICE COLOR: MATCH THE FACILITY EXISTING..

5. ACCESSORIES:

A. COVER PLATE: 0.060 INCH (1.5 MM) THICK, HIGH–IMPACT THERMOPLASTIC (NYLON) WITH SMOOTH FINISH AND COLOR MATCHING WIRING DEVICE; FROM SAME MANUFACTURER AS WIRING DEVICE.

B. SECURING SCREWS FOR COVER PLATE: METAL WITH HEAD COLOR MATCHING WALLPLATE FINISH.

2.4 LOCKING RECEPTACLES

B. NEMA, 125 V, LOCKING RECEPTACLE:

1. REFER TO THE SYMBOL LIST ON THE DRAWINGS

2. REGULATORY REQUIREMENTS:

A. LISTED AND LABELED IN ACCORDANCE WITH NFPA 70, BY QUALIFIED ELECTRICAL TESTING LABORATORY RECOGNIZED BY AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED LOCATION AND APPLICATION.

3. GENERAL CHARACTERISTICS:

A. REFERENCE STANDARDS: UL CCN RTRT AND UL 498.

PART 3 – EXECUTION

3.1 EXAMINATION

A. RECEPTACLES:

1. VERIFY THAT RECEPTACLES TO BE PROCURED AND INSTALLED FOR OWNER–FURNISHED EQUIPMENT ARE COMPATIBLE WITH MATING ATTACHMENT PLUGS ON EQUIPMENT.

3.2 SELECTION OF GFCI RECEPTACLES

A. PROVIDE NON–FEED–THROUGH GFCI RECEPTACLES.

3.3 INSTALLATION OF SWITCHES

A. COMPLY WITH MANUFACTURER'S INSTRUCTIONS.

B. REFERENCE STANDARDS:

1. UNLESS MORE STRINGENT REQUIREMENTS ARE SPECIFIED IN CONTRACT DOCUMENTS OR MANUFACTURERS' INSTRUCTIONS, COMPLY WITH INSTALLATION INSTRUCTIONS IN NECA NEIS 130.

2. MOUNTING HEIGHTS: UNLESS OTHERWISE INDICATED IN CONTRACT DOCUMENTS, COMPLY WITH MOUNTING HEIGHTS RECOMMENDED IN NECA NEIS 1.

3. CONSULT ARCHITECT FOR RESOLUTION OF CONFLICTING REQUIREMENTS.

C. IDENTIFICATION:

1. IDENTIFY COVER OR COVER PLATE FOR DEVICE WITH PANELBOARD IDENTIFICATION AND CIRCUIT NUMBER IN ACCORDANCE WITH SECTION 260553 "IDENTIFICATION FOR ELECTRICAL SYSTEMS."

A. HEALTHCARE FACILITIES: DISTINCTIVELY IDENTIFY COVERS OR COVER PLATES OF DEVICE BOXES AND OUTLET BOXES THAT ARE SUPPLIED FROM LIFE SAFETY AND CRITICAL BRANCH POWER SUPPLIES FOLLOWING FACILITY'S STANDARD PRACTICE.

D. INTERFACES WITH OTHER WORK:

1. COORDINATE INSTALLATION OF NEW PRODUCTS WITH EXISTING CONDITIONS.

SECTION 262816 – CIRCUIT BREAKERS

PART 1 – GENERAL

1.1 SUMMARY

A. SECTION INCLUDES:

1. MOLDED–CASE CIRCUIT BREAKERS (MCCBS).

1.2 DEFINITIONS

A. NC: NORMALLY CLOSED.

B. NO: NORMALLY OPEN.

C. SPDT: SINGLE POLE, DOUBLE THROW.

1.3 PERFORMANCE REQUIREMENTS

A. SEISMIC PERFORMANCE: CIRCUIT BREAKERS SHALL WITHSTAND THE EFFECTS OF EARTHQUAKE MOTIONS.

1.4 ACTION SUBMITTALS

A. PRODUCT DATA: FOR EACH TYPE OF ENCLOSED CIRCUIT BREAKER, ACCESSORY, AND COMPONENT INDICATED.

1.5 CLOSEOUT SUBMITTALS

A. OPERATION AND MAINTENANCE DATA.

1.6 QUALITY ASSURANCE

A. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.

B. COMPLY WITH NFPA 70.

PART 2 – PRODUCTS

2.1 MOLDED–CASE CIRCUIT BREAKERS

A. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS SPECIFIED ON THE DRAWINGS.

B. GENERAL REQUIREMENTS: COMPLY WITH UL 489, NEMA AB 1, AND NEMA AB 3, WITH INTERRUPTING CAPACITY TO COMPLY WITH AVAILABLE FAULT CURRENTS.

C. THERMAL–MAGNETIC CIRCUIT BREAKERS: INVERSE TIME–CURRENT ELEMENT FOR LOW–LEVEL OVERLOADS AND INSTANTANEOUS MAGNETIC TRIP ELEMENT FOR SHORT CIRCUITS.

D. FEATURES AND ACCESSORIES:

1. STANDARD FRAME SIZES, TRIP RATINGS, AND NUMBER OF POLES.

2. LUGS: SUITABLE FOR NUMBER, SIZE, TRIP RATINGS, AND CONDUCTOR MATERIAL.

3. SHUNT TRIP: TRIP COIL ENERGIZED FROM SEPARATE CIRCUIT, WITH COIL–CLEARING CONTACT.

PART 3 – EXECUTION

3.1 IDENTIFICATION

A. COMPLY WITH REQUIREMENTS IN SECTION 260553 "IDENTIFICATION FOR ELECTRICAL SYSTEMS."

1. IDENTIFY FIELD–INSTALLED CONDUCTORS, INTERCONNECTING WIRING, AND COMPONENTS; PROVIDE WARNING SIGNS.

2. LABEL EACH BREAKER WITH ENGRAVED METAL OR LAMINATED–PLASTIC NAMEPLATE.

3.2 FIELD QUALITY CONTROL

A. PERFORM TESTS AND INSPECTIONS.

1. TEST CONTINUITY OF EACH CIRCUIT.

B. TESTS AND INSPECTIONS:

1. PERFORM EACH VISUAL AND MECHANICAL INSPECTION AND ELECTRICAL TEST STATED IN NETA ACCEPTANCE TESTING SPECIFICATION. CERTIFY COMPLIANCE WITH TEST PARAMETERS.

2. CORRECT MALFUNCTIONING UNITS ON–SITE, WHERE POSSIBLE, AND RETEST TO DEMONSTRATE COMPLIANCE; OTHERWISE, REPLACE WITH NEW UNITS AND RETEST.

D. ENCLOSED SWITCHES AND CIRCUIT BREAKERS WILL BE CONSIDERED DEFECTIVE IF THEY DO NOT PASS TESTS AND INSPECTIONS.

E. PREPARE TEST AND INSPECTION REPORTS, INCLUDING A CERTIFIED REPORT THAT IDENTIFIES ENCLOSED SWITCHES AND CIRCUIT BREAKERS AND THAT DESCRIBES SCANNING RESULTS. INCLUDE NOTATION OF DEFICIENCIES DETECTED, REMEDIAL ACTION TAKEN, AND OBSERVATIONS AFTER REMEDIAL ACTION.

SECTION 265100 – INTERIOR LIGHTING

PART 1 – GENERAL

1.1 SUMMARY

A. SECTION INCLUDES:

1. INTERIOR LIGHTING FIXTURES, LAMPS, AND BALLASTS.

2. EMERGENCY LIGHTING UNITS.

3. LIGHTING FIXTURE SUPPORTS.

1.2 ACTION SUBMITTALS

A. PRODUCT DATA: FOR EACH TYPE OF LIGHTING FIXTURE, ARRANGED IN ORDER OF FIXTURE DESIGNATION. INCLUDE DATA ON FEATURES, ACCESSORIES, AND FINISHES.

1.3 INFORMATIONAL SUBMITTALS

A. FIELD QUALITY–CONTROL REPORTS.

1.4 QUALITY ASSURANCE

A. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.

B. COMPLY WITH NFPA 70.

PART 2 – PRODUCTS

2.1 MANUFACTURERS

A. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCT INDICATED ON DRAWINGS OR APPROVED EQUAL.

2.2 GENERAL REQUIREMENTS FOR LIGHTING FIXTURES AND COMPONENTS

A. RECESSED FIXTURES: COMPLY WITH NEMA LE 4 FOR CEILING COMPATIBILITY FOR RECESSED FIXTURES.

B. METAL PARTS: FREE OF BURRS AND SHARP CORNERS AND EDGES.

C. SHEET METAL COMPONENTS: STEEL UNLESS OTHERWISE INDICATED. FORM AND SUPPORT TO PREVENT WARPING AND SAGGING.

D. DOORS, FRAMES, AND OTHER INTERNAL ACCESS: SMOOTH OPERATING, FREE OF LIGHT LEAKAGE UNDER OPERATING CONDITIONS, AND DESIGNED TO PERMIT RELAMPING WITHOUT USE OF TOOLS. DESIGNED TO PREVENT DOORS, FRAMES, LENSES, DIFFUSERS, AND OTHER COMPONENTS FROM FALLING ACCIDENTALLY DURING RELAMPING AND WHEN SECURED IN OPERATING POSITION.

E. DIFFUSERS AND GLOBES:

1. ACRYLIC LIGHTING DIFFUSERS: 100 PERCENT VIRGIN ACRYLIC PLASTIC. HIGH RESISTANCE TO YELLOWING AND OTHER CHANGES DUE TO AGING, EXPOSURE TO HEAT, AND UV RADIATION.

a. UV STABILIZED.

PART 3 – EXECUTION

3.1 INSTALLATION

A. LIGHTING FIXTURES: SET LEVEL, PLUMB, AND SQUARE WITH CEILINGS AND WALLS. INSTALL LAMPS IN EACH FIXTURE.

B. COMPLY WITH NFPA 70 FOR MINIMUM FIXTURE SUPPORTS.

C. ADJUST ADJUSTABLE LIGHTING FIXTURES TO PROVIDE REQUIRED LIGHT INTENSITIES.

D. CONNECT WIRING ACCORDING TO SECTION 260519 "LOW–VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES."

3.2 FIELD QUALITY CONTROL

A. TEST FOR EMERGENCY LIGHTING: INTERRUPT POWER SUPPLY TO DEMONSTRATE PROPER OPERATION. VERIFY TRANSFER FROM NORMAL POWER TO BATTERY AND RETRANSFER TO NORMAL.

B. PREPARE A WRITTEN REPORT OF TESTS, INSPECTIONS, OBSERVATIONS, AND VERIFICATIONS INDICATING AND INTERPRETING RESULTS. IF ADJUSTMENTS ARE MADE TO LIGHTING SYSTEM, RETEST TO DEMONSTRATE COMPLIANCE WITH STANDARDS.

Int • Elect
Engineering
Incorporated
1487 Finch Lane
Glroy, California 95020
(408) 846-7171
Project No. 23104



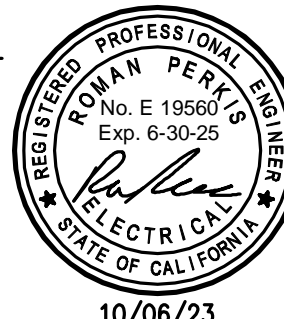
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* READ THE SPECIFICATIONS !

READ THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. IN CASE OF CONFLICT BETWEEN SPECIFICATIONS AND DRAWINGS THE MORE RESTRICTIVE REQUIREMENTS SHALL TAKE PRECEDENCE.

THIS DRAWING AND THE DESIGN HEREON ARE INTENDED FOR THIS ONE SPECIFIC PROJECT ONLY. ANY USE OR RE–USE BEYOND THIS ONE PROJECT IS THE SOLE RESPONSIBILITY OF THE USER.

ALTHOUGH A "SCALE" MAY BE INDICATED, THE INFORMATION ON THIS DRAWING IS APPROXIMATE AND DIAGRAMMATIC ONLY, AND SHALL NOT BE SCALED TO OBTAIN DISTANCES. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING THE INTENT AND USE OF THESE DRAWINGS.

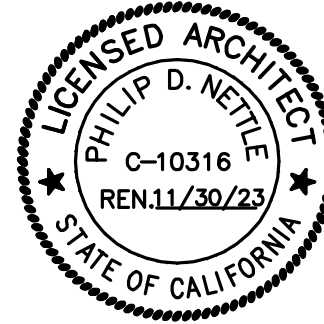


10/06/23



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PHILLIP D. NETTLE, ARCHITECT
LIC: C-10316 EXP: 11/30/2023
538 Shoreland Circle #1105
Redwood City, CA 94065

MORGAN HILL POLICE
DEPARTMENT EXPANSION

16200 VINEYARD BLVD.
MORGAN HILL, CA 95037

08/25/23

10/06/23 SUBMIT FOR PLAN CHECK

DRAWING TITLE:

ELECTRICAL
SPECIFICATIONS
PART 2

DRAWING NO.:

E-4.2

SCALE:

AS NOTED

T24 – INDOOR LIGHTING

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Indoor Lighting			
CERTIFICATE OF COMPLIANCE			
NRCC-LTI-E			
Project Name: MH PD 2023 T1			
Report Page: (Page 1 of 7)			
Date Prepared: 2023-08-22T15:05:00-04:00			

A. GENERAL INFORMATION				
01 Project Location (city)	Morgan Hill, CA	04 Total Conditioned Floor Area (ft²)	289	
02 Climate Zone	4	05 Total Unconditioned Floor Area (ft²)	9	
03 Occupancy Types Within Project (select all that apply):		06 # of Stories (Habitable Above Grade)	1	
• Office				

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	
01		02	03	04	05
My Project Consists of (check all that apply):		Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
<input type="checkbox"/>	New Lighting System	N/A	0	N/A	0
<input type="checkbox"/>	New Lighting System - Parking Garage	N/A	0	N/A	0
<input checked="" type="checkbox"/>	Altered Lighting System	Area Category Method	289	N/A	0
Total Area of Work (ft²)		289			

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance		Report Version: 2022.0.000	Compliance ID: 128434-0823-0002	Report Generated: 2023-08-22 12:05:03
Generated Date/Time:		Documentation Software: Energy Code Ace		

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Indoor Lighting			
CERTIFICATE OF COMPLIANCE			
NRCC-LTI-E			
Project Name: MH PD 2023 T1			
Report Page: (Page 2 of 7)			
Date Prepared: 2023-08-22T15:05:00-04:00			

C. COMPLIANCE RESULTS									
If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D for guidance.									
Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)(1) / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)					Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)			Compliance Results
	01	02	03	04	05	06	07	08	
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)3 / 170.2(e)4a	Tailored 140.6(c)3 / 170.2(e)4b (+)	Total Allowed (Watts)	Total Designed (Watts)	Adjustments PAF Lighting Control Credits 140.6(c)2 / 170.2(e)1b (-)	Total Adjusted (Watts) *Includes Adjustments	
	(See Table I)	(See Table I)	(See Table J)	(See Table K)	=	(See Table F)	(See Table P)	=	
Conditioned		172.2			≥	171.6		≥	05 must be ≥ 08
Unconditioned					≥			≥	140.6 / 170.2(e)
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.	
(General Remarks) X type exit light signs contain battery / charger for min 90 minutes.	

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance		Report Version: 2022.0.000	Compliance ID: 128434-0823-0002	Report Generated: 2023-08-22 12:05:03
Generated Date/Time:		Documentation Software: Energy Code Ace		

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Indoor Lighting			
CERTIFICATE OF COMPLIANCE			
NRCC-LTI-E			
Project Name: MH PD 2023 T1			
Report Page: (Page 3 of 7)			
Date Prepared: 2023-08-22T15:05:00-04:00			

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. 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.										
Designed Wattage: Conditioned Spaces										
01	02	03	04	05	06	07	08	09	10	
Name or Item	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change¹	Watts per luminaire²	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector	
									Pass	Fail
A	2X2 LED DIMMABLE W/ INTEGRAL PIR OCC SENSOR, 4800 LUMENS	No	NA	42.9	Mfr. Spec	4	No	171.6	<input type="checkbox"/>	<input type="checkbox"/>
X	LED EXIT SIGN W/ INTEGRAL BATTERY BACKUP	No	NA	1	Mfr. Spec	5	Exempt	---	<input type="checkbox"/>	<input type="checkbox"/>
Total Designed Watts: CONDITIONED SPACES								171.6		

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.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)				
This table includes lighting controls for conditioned and unconditioned spaces.				
Building Level Controls				
01		02		03
Mandatory Demand Response 110.12(c)		Shut-off controls 130.1(c) / 160.5(b)4C		Field Inspector
				Pass
				Fail

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance		Report Version: 2022.0.000	Compliance ID: 128434-0823-0002	Report Generated: 2023-08-22 12:05:03
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Indoor Lighting			
CERTIFICATE OF COMPLIANCE			
NRCC-LTI-E			
Project Name: MH PD 2023 T1			
Report Page: (Page 4 of 7)			
Date Prepared: 2023-08-22T15:05:00-04:00			

H. INDOOR LIGHTING CONTROLS (Not including PAFs)										
NA < 4,000W subject to multilevel					See Area/Space Level Controls					
Area Level Controls										
04	05	06	07	08	09	10	11	12		
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) / 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting Systems 130.1(e)1 / 160.5(b)4D	Interlocked Systems 140.6(a)1 / 170.2(e)2A	Field Inspector:		
									Pass	Fail
WORK AREA	Office (>250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No			
Plan Sheet Showing Daylit Zones:										
13										

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						
01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	PAF
WORK AREA	Office (>250 square feet)	0.6	287	172.2	No	No
TOTALS:		287		172.2	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM
This section does not apply to this project.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance		Report Version: 2022.0.000	Compliance ID: 128434-0823-0002	Report Generated: 2023-08-22 12:05:03
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CERTIFICATE OF COMPLIANCE			
NRCC-LTI-E			
Project Name: MH PD 2023 T1			
Report Page: (Page 5 of 7)			
Date Prepared: 2023-08-22T15:05:00-04:00			

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.
N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS
This section does not apply to this project.
O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE
This section does not apply to this project.
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.
R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS
This section does not apply to this project.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance		Report Version: 2022.0.000	Compliance ID: 128434-0823-0002	Report Generated: 2023-08-22 12:05:03
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Indoor Lighting			
CERTIFICATE OF COMPLIANCE			
NRCC-LTI-E			
Project Name: MH PD 2023 T1			
Report Page: (Page 6 of 7)			
Date Prepared: 2023-08-22T15:05:00-04:00			

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)	
This section does not apply to this project.	
T. DWELLING UNIT LIGHTING	
This section does not apply to this project.	
U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION	
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 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	
Form/Title	
NRCC-LTI-E - Must be submitted for all buildings	
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	
Form/Title	
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	
WORK AREA	

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance		Report Version: 2022.0.000	Compliance ID: 128434-0823-0002	Report Generated: 2023-08-22 12:05:03
Generated Date/Time:		Documentation Software: Energy Code Ace		

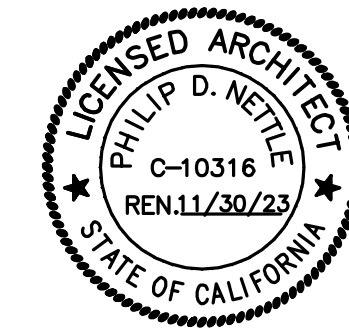
STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Indoor Lighting			
CERTIFICATE OF COMPLIANCE			
NRCC-LTI-E			
Project Name: MH PD 2023 T1			
Report Page: (Page 7 of 7)			
Date Prepared: 2023-08-22T15:05:00-04:00			

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name:	Documentation Author Signature:
Doug Blessing	
Company:	Signature Date: 08/31/23
Address:	CEA/HERS Certification Identification (if applicable):
City/State/Zip:	Phone: (408) 846-7171
RESPONSIBLE PERSON'S DECLARATION STATEMENT	
I certify the following under penalty of perjury, under the laws of the State of California:	
1. The information provided on this Certificate of Compliance is true and correct.	
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).	
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.	
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.	
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.	
Responsible Designer Name: ROMAN PERKIS	Responsible Designer Signature:
Company:	Date Signed: 08/31/23
Address:	License: E-19560
City/State/Zip:	Phone: (408) 846-7171

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance		Report Version: 2022.0.000	Compliance ID: 128434-0823-0002	Report Generated: 2023-08-22 12:05:03
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PHILLIP D. NETTLE, ARCHITECT
LIC: C-10316 EXP: 1/30/2023
558 Shorebird Circle #105
Redwood City, CA 94065

MORGAN HILL POLICE
DEPARTMENT EXPANSION

16200 VINEYARD BLVD.
MORGAN HILL, CA 95037

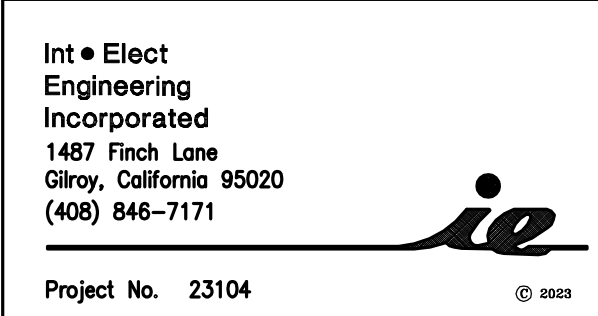
08/25/23
10/06/23 SUBMIT FOR PLAN CHECK

DRAWING TITLE:
TITLE 24
INDOOR LIGHTING

DRAWING NO.:

T24-1

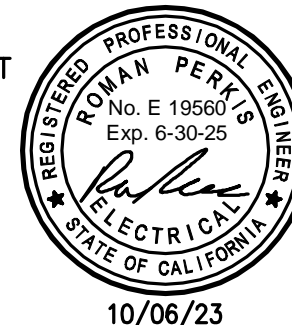
SCALE: AS NOTED



* READ THE SPECIFICATIONS !

READ THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. IN CASE OF CONFLICT BETWEEN SPECIFICATIONS AND DRAWINGS THE MORE RESTRICTIVE REQUIREMENTS SHALL TAKE PRECEDENCE.

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10/06/23

T24 – ELECTRICAL POWER DISTRIBUTION

STATE OF CALIFORNIA

Electrical Power Distribution

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-ELC-E

This document is used to demonstrate compliance with mandatory requirements in 130.5, for electrical systems in newly constructed nonresidential and hotel/motel occupancies and 160.6 and 160.9 for electrical systems in newly constructed multifamily occupancies. Additions and alterations to electrical service systems in nonresidential and hotel/motel occupancies will also use this document to demonstrate compliance per 141.0(a) or 141.0(b)2P for alterations. For multifamily addition or alterations compliance will be documented per 180.1(a) or 180.2.(b)4vi.

Project Name: MH PD 2023 T1

Report Page: (Page 1 of 4)

Project Address: 16200 VINEYARD BLVD. MORGAN HILL, CA. 95037

Date Prepared: 2023-08-24T13:21:29-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Morgan Hill, CA	02	Climate Zone	4
03	Occupancy Types Within Project:	Office			

B. PROJECT SCOPE

This table includes electrical systems that are within the scope of the permit application.

01	02	03	04	05	06	07
Electrical Service Designation/Description	Scope of Work ¹	Rating ² (kVA)	Utility Provided Metering System Exception to 130.5(a)/160.6(a) ³	System subject to CA Elec Code Article 517 Exception to 130.5(a)and (b)	Demand Response Controls	Provides power to dwelling units/common living areas only in multifamily occupancy
Existing in Main Electrical Room on sheet E-2.0	Add/Alt to feeders and branch circuits only	---	<input type="checkbox"/>	<input type="checkbox"/>	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections 120.2/ 160.3, 130.1/ 160.5, and 130.3/ 160.5, and mechanical, indoor lighting, and sign lighting Certificate of Compliance documents will indicate when demand response controls are required.	<input type="checkbox"/>

¹FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c)/160.6(c), no other requirements from 130.5/160.6 are required.

² If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.

³ Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 128434-0823-0004 Schema Version: rev 20220101 Report Generated: 2023-08-24 10:21:32

STATE OF CALIFORNIA

Electrical Power Distribution

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-ELC-E

Project Name: MH PD 2023 T1

Report Page: (Page 2 of 4)

Date Prepared: 2023-08-24T13:21:29-04:00

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through J. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

01	02	03	04	05	06				
Service Electrical Metering 130.5(a)/160.6(a) (See Table F)	AND	Separation for Monitoring 130.5(b)/160.6(b) (See Table G)	AND	Voltage Drop 130.5(c)/160.6(c) (See Table H)	AND	Controlled Receptacles 130.5(d)/160.6(d) (See Table I)	AND	Electric Ready 160.9 (See Table J)	Compliance Results
	AND		AND	Yes	AND				COMPLIES

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.

H. VOLTAGE DROP

This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with 130.5(c)/160.6(c). For alterations, only the altered circuits must demonstrate compliance per 141.0(b)2Piii/180.2(b)4bviic.

01	02	03	04	05
Electrical Service Designation/Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method	Location of Voltage Drop Calculations ¹	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector
Existing in Main Electrical Room on sheet E-2.0	<input checked="" type="checkbox"/> Voltage drop less than 5%	<input type="checkbox"/> Permitted by CA Elec Code (Exception to 130.5(c)) [*]	In construction documents	E-0.1 and E-1.1 (SINGLE LINE) <input type="checkbox"/> Pass <input type="checkbox"/> Fail

^{*} NOTES: If "Permitted by CA Elec Code ^{*}" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.

¹ FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".

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STATE OF CALIFORNIA

Electrical Power Distribution

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-ELC-E

Project Name: MH PD 2023 T1

Report Page: (Page 3 of 4)

Date Prepared: 2023-08-24T13:21:29-04:00

K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection 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

NRCC-ELC-E - Must be submitted for all buildings

L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

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STATE OF CALIFORNIA

Electrical Power Distribution

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-ELC-E

Project Name: MH PD 2023 T1


Report Page: (Page 4 of 4)

Date Prepared: 2023-08-24T13:21:29-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: doug blessing

Documentation Author Signature: 

Company: INT-ELECT ENGINEERING, INC.

Signature Date: 08/31/23

Address: 1487 FINCH LANE

CEA/HERS Certification Identification (if applicable):

City/State/Zip: GILROY, CA. 95020

Phone: (408) 846-7171

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.


2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)

3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.

4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: ROMAN PERKIS

Responsible Designer Signature: 

Company: INT-ELECT ENGINEERING, INC.

Date Signed: 08/31/23

Address: 1487 FINCH LANE

License: E-19560

City/State/Zip: GILROY, CA. 95020

Phone: (408) 846-7171

Generated Date/Time: Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 128434-0823-0004 Schema Version: rev 20220101 Report Generated: 2023-08-24 10:21:32

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DEPARTMENT EXPANSION

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08/25/23
10/06/23 SUBMIT FOR PLAN CHECK

DRAWING TITLE:

TITLE 24
ELECTRICAL POWER
DISTRIBUTION

DRAWING NO.:

T24-2

SCALE: AS NOTED

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