

CONSTRUCTION DOCUMENTS FOR:
**YOLO COUNTY - ROADS
BUILDING RENOVATIONS**

284 WEST BEAMER STREET, WOODLAND, CA

COUNTY JOB NO.: WA24-07-5292



F4 **VICINITY MAP**
NOT TO SCALE

ABBREVIATIONS

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z AA AB AC AD AE AF AG AH AI AJ AK AL AM AN AO AP AQ AR AS AT AU AV AW AX AY AZ BA BB BC BD BE BF BG BH BI BJ BK BL BM BN BO BP BQ BR BS BT BU BV BW BX BY BZ CA CB CC CD CE CF CG CH CI CJ CK CL CM CN CO CP CQ CR CS CT CU CV CW CX CY CZ DA DB DC DD DE DF DG DH DI DJ DK DL DM DN DO DP DQ DR DS DT DU DV DW DX DY DZ EA EB EC ED EE EF EG EH EI EJ EK EL EM EN EO EP EQ ER ES ET EU EV EW EX FY FZ GA GB GC GD GE GF GG GH GI GJ GK GL GM GN GO GP GQ GR GS GT GU GV GW GX GY GZ HA HB HC HD HE HF HG HH HI HJ HK HL HM HN HO HP HQ HR HS HT HU HV HW HX HY HZ IA IB IC ID IE IF IG IH II IJ IK IL IM IN IO IP IQ IR IS IT IU IV IW IX IY IZ JA JB JC JD JE JF JG JH JI JJ JK JL JM JN JO JP JQ JR JS JT JU JV JW JX JY JZ KA KB KC KD KE KF KG KH KI KJ KK KL KM KN KO KP KQ KR KS KT KU KV KW KX KY KZ LA LB LC LD LE LF LG LH LI LJ LK LM LN LO LP LQ LR LS LT LU LV LW LX LY LZ MA MB MC MD ME MF MG MH MI MJ MK ML MM MN MO MP MQ MR MS MT MU MV MW MX MY MZ NA NB NC ND NE NF NG NH NI NJ NK NL NM NO NP NQ NR NS NT NU NV NW NX NY NZ OA OB OC OD OE OF OG OH OI OJ OK OL OM ON OO OP OQ OR OS OT OU OV OW OX OY OZ PA PB PC PD PE PF PG PH PI PJ PK PL PM PN PO PP PQ PR PS PT PU PV PW PX PY PZ QA QB QC QD QE QF QG QH QI QJ QK QL QM QN QO QP QQ QR QS QT QU QV QW QX QY QZ RA RB RC RD RE RF RG RH RI RJ RK RL RM RN RO RP RQ RR RS RT RU RV RW RX RY RZ SA SB SC SD SE SF SG SH SI SJ SK SL SM SN SO SP SQ SR SS ST SU SV SW SX SY SZ TA TB TC TD TE TF TG TH TI TJ TK TL TM TN TO TP TQ TR TS TT TU TV TW TX TY TZ UA UB UC UD UE UF UG UH UI UJ UK UL UM UN UO UP UQ UR US UT UU UV UW UX UY UZ VA VB VC VD VE VF VG VH VI VJ VK VL VM VN VO VP VQ VR VS VT VU VV VW VX VY VZ WA WB WC WD WE WF WG WH WI WJ WK WL WM WN WO WP WQ WR WS WT WU WV WW WX WY WZ XA XB XC XD XE XF XG XH XI XJ XK XL XM XN XO XP XQ XR XS XT XU XV XW XX XY XZ YA YB YC YD YE YF YG YH YI YJ YK YL YM YN YO YP YQ YR YS YT YU YV YW YX YZ ZA ZB ZC ZD ZE ZF ZG ZH ZI ZJ ZK ZL ZM ZN ZO ZP ZQ ZR ZS ZT ZU ZV ZW ZX ZY ZZ	PROPERTY LINE AND ANGLE AT CENTERLINE DIAMETER C.M.U. PENNY	C.I. C.J. C.L. C.M. C.N. C.O. C.P. C.Q. C.R. C.S. C.T. C.U. C.V. C.W. C.X. C.Y. C.Z. D.A. D.B. D.C. D.D. D.E. D.F. D.G. D.H. D.I. D.J. D.K. D.L. D.M. D.N. D.O. D.P. D.Q. D.R. D.S. D.T. D.U. D.V. D.W. D.X. D.Y. D.Z. E.A. E.B. E.C. E.D. E.E. E.F. E.G. E.H. E.I. E.J. E.K. E.L. E.M. E.N. E.O. E.P. E.Q. E.R. E.S. E.T. E.U. E.V. E.W. E.X. E.Y. E.Z. F.A. F.B. F.C. F.D. F.E. F.F. F.G. F.H. F.I. F.J. F.K. F.L. F.M. F.N. F.O. F.P. F.Q. F.R. F.S. F.T. F.U. F.V. F.W. F.X. F.Y. F.Z. G.A. G.B. G.C. G.D. G.E. G.F. G.G. G.H. G.I. G.J. G.K. G.L. G.M. G.N. G.O. G.P. G.Q. G.R. G.S. G.T. G.U. G.V. G.W. G.X. G.Y. G.Z. H.A. H.B. H.C. H.D. H.E. H.F. H.G. H.H. H.I. H.J. H.K. H.L. H.M. H.N. H.O. H.P. H.Q. H.R. H.S. H.T. H.U. H.V. H.W. H.X. H.Y. H.Z. I.A. I.B. I.C. I.D. I.E. I.F. I.G. I.H. I.I. I.J. I.K. I.L. I.M. I.N. I.O. I.P. I.Q. I.R. I.S. I.T. I.U. I.V. I.W. I.X. I.Y. I.Z. J.A. J.B. J.C. J.D. J.E. J.F. J.G. J.H. J.I. J.J. J.K. J.L. J.M. J.N. J.O. J.P. J.Q. J.R. J.S. J.T. J.U. J.V. J.W. J.X. J.Y. J.Z. K.A. K.B. K.C. K.D. K.E. K.F. K.G. K.H. K.I. K.J. K.K. K.L. K.M. K.N. K.O. K.P. K.Q. K.R. K.S. K.T. K.U. K.V. K.W. K.X. K.Y. K.Z. L.A. L.B. L.C. L.D. L.E. L.F. L.G. L.H. L.I. L.J. L.K. L.L. L.M. L.N. L.O. L.P. L.Q. L.R. L.S. L.T. L.U. L.V. L.W. L.X. L.Y. L.Z. M.A. M.B. M.C. M.D. M.E. M.F. M.G. M.H. M.I. M.J. M.K. M.L. M.M. M.N. M.O. M.P. M.Q. M.R. M.S. M.T. M.U. M.V. M.W. M.X. M.Y. M.Z. N.A. N.B. N.C. N.D. N.E. N.F. N.G. N.H. N.I. N.J. N.K. N.L. N.M. N.O. N.P. N.Q. N.R. N.S. N.T. N.U. N.V. N.W. N.X. N.Y. N.Z. O.A. O.B. O.C. O.D. O.E. O.F. O.G. O.H. O.I. O.J. O.K. O.L. O.M. O.N. O.O. O.P. O.Q. O.R. O.S. O.T. O.U. O.V. O.W. O.X. O.Y. O.Z. P.A. P.B. P.C. P.D. P.E. P.F. P.G. P.H. P.I. P.J. P.K. P.L. P.M. P.N. P.O. P.P. P.Q. P.R. P.S. P.T. P.U. P.V. P.W. P.X. P.Y. P.Z. Q.A. Q.B. Q.C. Q.D. Q.E. Q.F. Q.G. Q.H. Q.I. Q.J. Q.K. Q.L. Q.M. Q.N. Q.O. Q.P. Q.Q. Q.R. Q.S. Q.T. Q.U. Q.V. Q.W. Q.X. Q.Y. Q.Z. R.A. R.B. R.C. R.D. R.E. R.F. R.G. R.H. R.I. R.J. R.K. R.L. R.M. R.N. R.O. R.P. R.Q. R.R. 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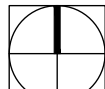
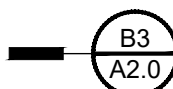
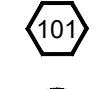
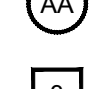
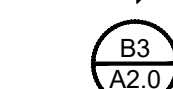
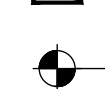
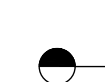
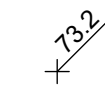
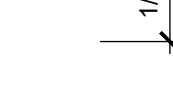
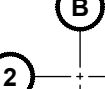
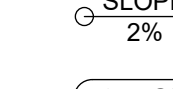
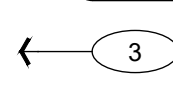
GENERAL NOTES

- THE TEAM OF DESIGN PROFESSIONALS FOR THIS PROJECT INCLUDE:
- | | |
|--------------------------|--|
| ARCHITECTURAL: | COMSTOCK JOHNSON ARCHITECTS, INC.
10520 ARMSTRONG AVE., SUITE 250, MATHER, CA 95655
DAN ERIKSSON
916-362-6303 EXT. 104 |
| MECHANICAL/
PLUMBING: | SACRAMENTO ENGINEERING CONSULTANTS
10555 OLD PLACERVILLE ROAD, SACRAMENTO, CA 95827
MONICA USSERY
916-368-4468 EXT. 134 |
| ELECTRICAL: | SACRAMENTO ENGINEERING CONSULTANTS
10555 OLD PLACERVILLE ROAD, SACRAMENTO, CA 95827
JIM SMITH
916-368-4468 EXT. 116 |
| STRUCTURAL: | BEVIER STRUCTURAL ENGINEERING
2479 SUNRISE BLVD, GOLD RIVER, CA 95670
JEFF KOVACH
916-361-3030 |
2. THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS SHALL NOTIFY THE OWNER OF ANY ERRORS AND/OR OMISSIONS CONTAINED IN THE CONSTRUCTION DOCUMENTS PRIOR TO ORDERING MATERIALS AND/OR COMMENCING CONSTRUCTION.
3. PROVIDE ONE FIRE EXTINGUISHER, 2A-10BC TYPE, EACH 3,000 SQUARE FEET OF FLOOR SPACES, AND/OR A MAXIMUM TRAVEL DISTANCE OF 75' FROM THE EXTINGUISHER. SEE FLOOR PLAN FOR LOCATIONS.
4. CONTRACTOR TO PROVIDE A CONSTRUCTION WASTE MANAGEMENT PLAN TO RECYCLE AND/OR SALVAGE FOR REUSE A MINIMUM OF 50 PERCENT OF THE NON-HAZARDOUS CONSTRUCTION AND DEMOLITION WASTE IN ACCORDANCE WITH STANDARD 5.408.1.1, 5.408.1.2 OR 5.408.1.3 OF THE 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE.
5. ALL FINISH MATERIALS INCLUDING ADHESIVES, SEALANTS, CAULKS, PAINTS AND COATINGS, AEROSOL PAINTS AND COATINGS, COMPOSITE WOOD PRODUCTS, RESILIENT FLOORING SYSTEMS AND CARPET SYSTEMS SHALL MEET OR EXCEED MINIMUM REQUIREMENT FROM TABLES 5.504.4.1, 5.504.4.2, 5.504.4.3 AND 5.504.5 OF THE 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE. CONTRACTOR SHALL PROVIDE DOCUMENTATION, MANUFACTURER'S PRODUCT SPECIFICATIONS OR CHAIN OF CUSTODY OR OTHER METHODS THAT ARE ACCEPTABLE AS VERIFICATION FOR COMPLIANCE BY THE ENFORCING AGENCY. PROVIDED DOCUMENTATION SHALL VERIFY THAT EACH MATERIAL AND/OR FINISH MEET OR EXCEEDS THE MINIMUM COMPLIANT STANDARD. DOCUMENTATION SHALL ALSO BE KEPT ON THE CONSTRUCTION SITE FOR FIELD VERIFICATION BY THE ENFORCING AGENCY.

PROJECT DATA.

JOB SITE ADDRESS	284 W. BEAMER ST., WOODLAND, CA
APN	064-010-032-000
JURISDICTION	YOLO COUNTY
ZONING	PF - PUBLIC FACILITIES
OCCUPANCY GROUP & BUILDING USE	(B) BUSINESS (S-1) STORAGE
CONSTRUCTION TYPE	V-F
BUILDING CODE	2022 CA BUILDING CODE – VOLUMES 1 & 2 (CBC) 2022 CA GREEN BUILDING STANDARDS CODE (CGBSC) 2022 CA PLUMBING CODE (CPC) 2022 CA MECHANICAL CODE (CMC) 2022 CA ELECTRICAL CODE (CEC) 2022 CA ENERGY CODE (CEC) 2022 CA FIRE CODE BASED ON THE 2021 IFC
TOTAL BUILDING AREA	13,122 S.F.
AREA OF IMPROVEMENTS:	3,372 S.F.
TOTAL SITE AREA:	26.88 ACRES
FIRE SPRINKLERED:	NO

SYMBOLS

	NORTH SYMBOL		DETAIL REFERENCE, (DETAIL # ON TOP, SHEET # ON BOTTOM)
	DOOR NUMBER		BUILDING/ WALL SECTION, (SECTION # ON TOP, SHEET # ON BOTTOM)
	WINDOW TYPE		EXTERIOR ELEVATION, (ELEVATION # ON TOP, SHEET # ON BOTTOM)
	KEYNOTE		INTERIOR ELEVATION, (ELEVATION # ON TOP, SHEET # ON BOTTOM)
	ELEVATION LINE, WORK OR DATUM POINT		DIMENSION POINT TO CENTERLINE OF OBJECT
	MATCH LINE, (SIDE CONSIDERED IS SHADED)		DIMENSION POINT TO FACE OF MATERIAL
	GRADE ELEVATION		SLOPE DIRECTION WITH PERCENTAGE RATE
	COLUMN REFERENCE		MAX. OCCUPANCY LOAD
	REVISION CLOUD WITH INDICATOR		Occ. LOAD AT POINT OF EXIT w/ EXIT DIRECTION

PROJECT SCOPE

PROJECT SCOPE INCLUDES:

1. SELECT EXTERIOR WINDOW AND DOOR INFILL OR REPLACEMENT
2. REVISED PATH OF TRAVEL TO THE ACCESSIBLE PARKING STALL INCLUDING ADDING A GATE WITH PANIC HARDWARE INSIDE A BLOCK WALL AND NEW CONCRETE WALK.
3. INTERIOR IMPROVEMENTS TO MAKE ALL GENDER ACCESSIBLE RESTROOM UPDATED BREAK AREA, ADDITIONAL OFFICE, AND CONDITIONED CLASSROOM SPACE.

CONTRACTOR NOTES

1. BOTH THE BUILDING RENOVATIONS AND CARPORT ADDITION ARE TO UNDER SEPARATE PERMITS FOR BUILDING DEPARTMENT SUBMITTAL PURPOSES. CONSTRUCTION OF BOTH PERMITS ARE TO BE DONE SIMULTANEOUSLY AND BE PUBLICLY BID AS A SINGLE PROJECT.

SHEET INDEX

ARCHITECTURAL:

A0.0	COVER SHEET
A0.1	ACCESSIBILITY DETAILS
A0.2	CAL GREEN 1
A0.3	CAL GREEN 2
A0.4	CAL GREEN 3
A0.5	CAL GREEN 4
A0.6	EXITING
A1.0	SITE PLAN
A1.1	ACCESSIBLE PARKING PLAN
A2.0	DEMO FLOOR & CEILING PLANS
A2.1	FLOOR PLAN & DOOR SCHEDULE
A2.2	REFLECTED CEILING PLAN
A3.0	EXTERIOR ELEVATIONS, SECTIONS, & CANOPY
A4.0	ENLARGED PLANS, INTERIOR ELEVATIONS, & FINISH SCHEDULE
A5.0	DETAILS

STRUCTURAL:

S1.1	GENERAL NOTES
S1.2	GENERAL NOTES
S1.3	TYPICAL DETAILS
S2.1	FOUNDATION PLANS
S2.2	ROOF FRAMING PLAN
S4.1	SECTIONS
S5.1	DETAILS

MECHANICAL:

M1.1 MECHANICAL NOTES, LEGEND, & SCHEDULE
M2.1 MECHANICAL FLOOR PLAN
M3.1 MECHANICAL DETAILS
T24.1 TITLE 24- MECHANICAL

PLUMBING:

P1.1 PLUMBING NOTES, LEGEND, & SCHEDULE
P2.1 PLUMBING FLOOR PLAN- WASTE AND VENT
P2.2 PLUMBING FLOOR PLAN
P3.1 PLUMBING DETAILS
T24.2 TITLE 24- PLUMBING

ELECTRICAL:

- E0.1 ELECTRICAL NOTES & LEGEND
- E0.2 ONE LINE DIAGRAM & SCHEDULE
- E0.3 ELECTRICAL T24
- E3.0 ELECTRICAL DEMOLITION PLAN
- E3.1 LIGHTING PLAN
- E3.2 POWER AND SIGNAL PLAN
- E3.3 POWER AND SIGNAL PLAN CONT.
- E5.1 ELECTRICAL DETAILS
- E5.2 ELECTRICAL DETAILS CONT.

APPROVAL STAMPS



Comstock Johnson

ARCHITECTS INC.

10850 Gold Center Drive #250
Rancho Cordova, CA 95670
Phone: (916)362-6303

Daniel P. Eriksson
Principal Architect

Kevin L. Wilcox
Principal Architect

Jeffery J. Reilly
Principal Architect

Rachel M. Luhrsen
Principal
Sr. Project Manager



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JOB TITLE

CONSTRUCTION DOCUMENTS FOR:
**YOLO COUNTY - ROADS
BUILDING RENOVATIONS**
284 W. BEAMER STREET
WOODLAND, CA
YOLO COUNTY JOB NO. WA24-07-5292
CLIENT: YOLO COUNTY GENERAL SERVICES DEPARTMENT
ADDRESS: 420 W. MAIN STREET, SUITE D, WOODLAND, CA 95692

REVISIONS

	DATE:	DESCRIPTION:
1	01/19/2026	TENANT REVS

DATE 06/27/2025

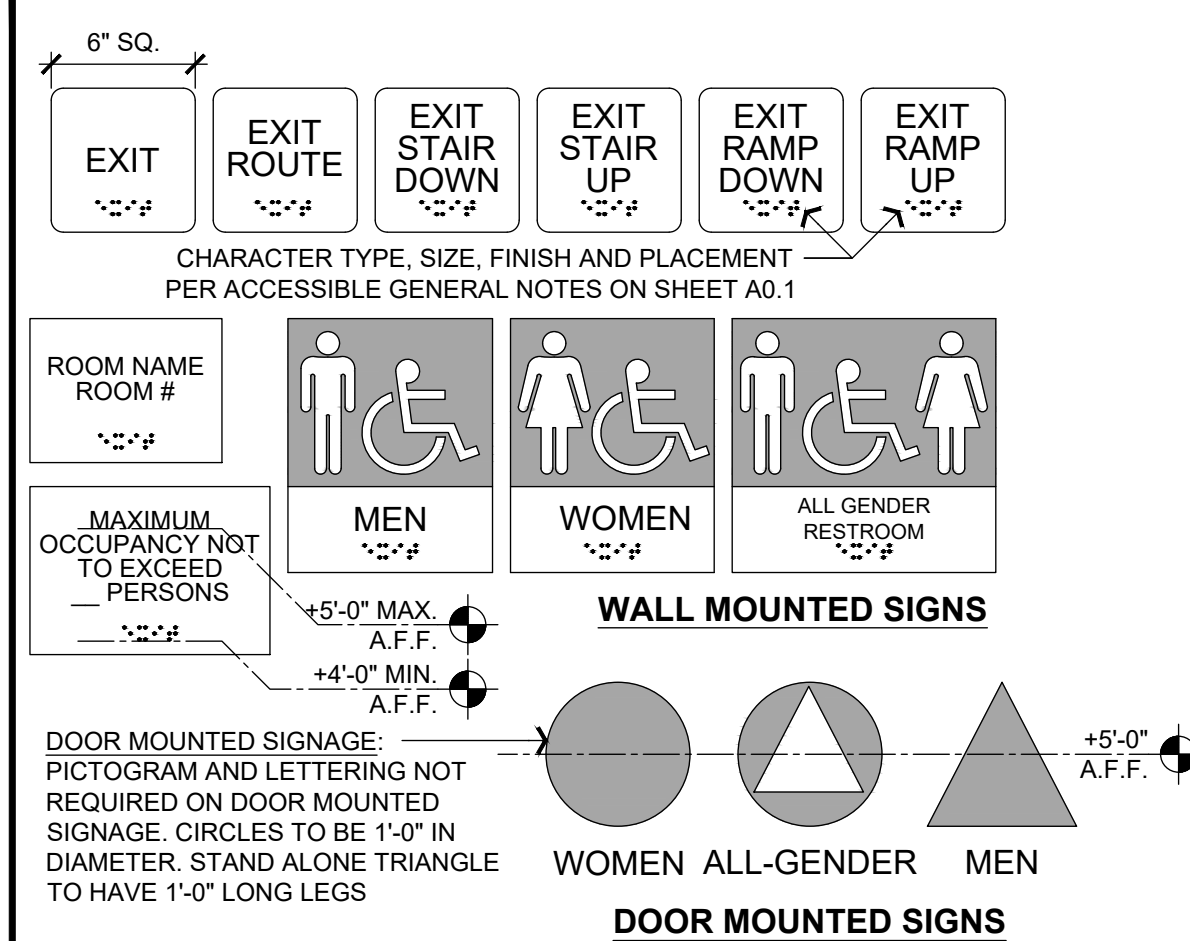
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JOB NO. 22232

SHEET 1000

A0.0

OF 15 SHEETS



- A. **RAMPS (INCLUDES ALL APPROACHES TO ANY BUILDING ENTRY):**
 1. MINIMUM WIDTH 4'-0". IF MAIN ENTRANCE OCCUPANT LOAD IS OVER 300 MIN. WIDTH 5'-0".
 2. MAXIMUM SLOPE FOR EXIT RAMPS 8.33% (1:12). MAX. CROSS-SLOPE IS 2% (1:48). 1-1/2" DIA. ROUND PIPE HANDRAILS AT +2'-10", BOTH SIDES OF RAMP ARE REQUIRED. ALL RAMP SLOPES STEEPER THAN 1:20. ENDS OF HANDRAIL RAMP BE EITHER ROUNDED OR RETURNED SMOOTH TO FLOOR, WALL OR POST AND MUST ALSO EXTEND 12" BEYOND THE END OF THE RAMP.
 4. PROVIDE "WHEEL GUIDES" IF RAMP IS OVER 10'-0" LONG AND IS NOT NEXT TO A WALL OR FENCE. PROVIDE 2" HIGH CURB AT EACH SIDE OR A CONTINUOUS BOTTOM RAIL, CENTERED AT +3" ABOVE RAMP SURFACE.
 5. PROVIDE A 6'-0" LANDING AT EVERY RAMP IMPEDIMENT CHANGE AND AT EVERY 2'-6" OF VERTICAL RISE. MAXIMUM MAX. HORIZONTAL RUN FOR SLOPES BETWEEN 8.33% (1:12) TO 6.25% (1:16) OR LESS, IS 30'-0". FOR SLOPES 6.25% (1:16) TO 5% (1:20) OR LESS, IS 40'-0".
 6. EXTERIOR RAMPS AND THEIR APPROACHES SHALL NOT ACCUMULATE WATER ON WALKING SURFACES.
 7. LANDINGS AT ALL PRIMARY ENTRIES AND EXITS SHALL HAVE A MIN. 6'-6" LANDING WITH A MAX. SLOPE OF 1/4" PER FOOT (2%) IN ANY DIRECTION.
- B. **EXTERIOR WALKS AND SIDEWALKS:**
 1. 4'-0" WIDE MIN. CLEAR, NOT INCLUDING VEHICLE OVERHANG.
 2. 2% (1:48) PER FOOT CROSS SLOPE MAX.
 3. GRATINGS LIMITED TO THOSE WITH 1/4" OPENINGS. IF GRATINGS HAVE ELONGATED OPENINGS, THEN THEY SHALL BE PLACED SO THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT PATH OF TRAVEL.
 4. SLOPE IN DIRECTION OF TRAVEL SHALL NOT BE OVER 5% (1:20). FOR SLOPES OVER 5% SEE RAMP NOTES.
 5. NO LEVEL CHANGES GREATER THAN 1/4" IN ANY DIRECTION. FOR LEVEL CHANGES BETWEEN 1/4" AND 1/2". EDGE SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:1.
 6. AT GATES AND SIMILAR CONDITIONS PROVIDE 5'-0" x 5'-0" FLAT AREA (2% OR 1:48 MAX. SLOPE). SEE ACCESSIBLE DOOR STANDARDS.
 7. IF ADJACENT SLOPES ARE LESS THAN 5% AND ADJACENT ELEVATION DROP IS LESS THAN 1", WHEEL GUIDES ARE NOT REQUIRED. SEE ACCESSIBLE RAMP NOTES.
 8. ALL OBJECTS HANGING OVER ANY WALKS MUST BE HIGHER THAN 6'-8". OBJECTS PROJECTING FROM WALLS WITH LEADING EDGES BETWEEN 2'-3" AND 6'-8" ABOVE FINISH FLOOR SHALL NOT PROTRUDE MORE THAN 4" INTO WALKS. OBJECTS AT OR BELOW 2'-3" MAY PROTRUDE ANY AMOUNT.

Daniel P. Eriksson
Principal Architect

Kevin L. Wilcox
Principal Architect

Jeffery J. Reilly
Principal Architect

Rachel M. Luhrsen
Principal
Sr. Project Manager



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YOLO COUNTY JOB NO. W424-07-5292
CLIENT: YOLO COUNTY GENERAL SERVICES DEPARTMENT
ADDRESS: 121 W. MAIN STREET SUITE D, WOODLAND, CA 95670

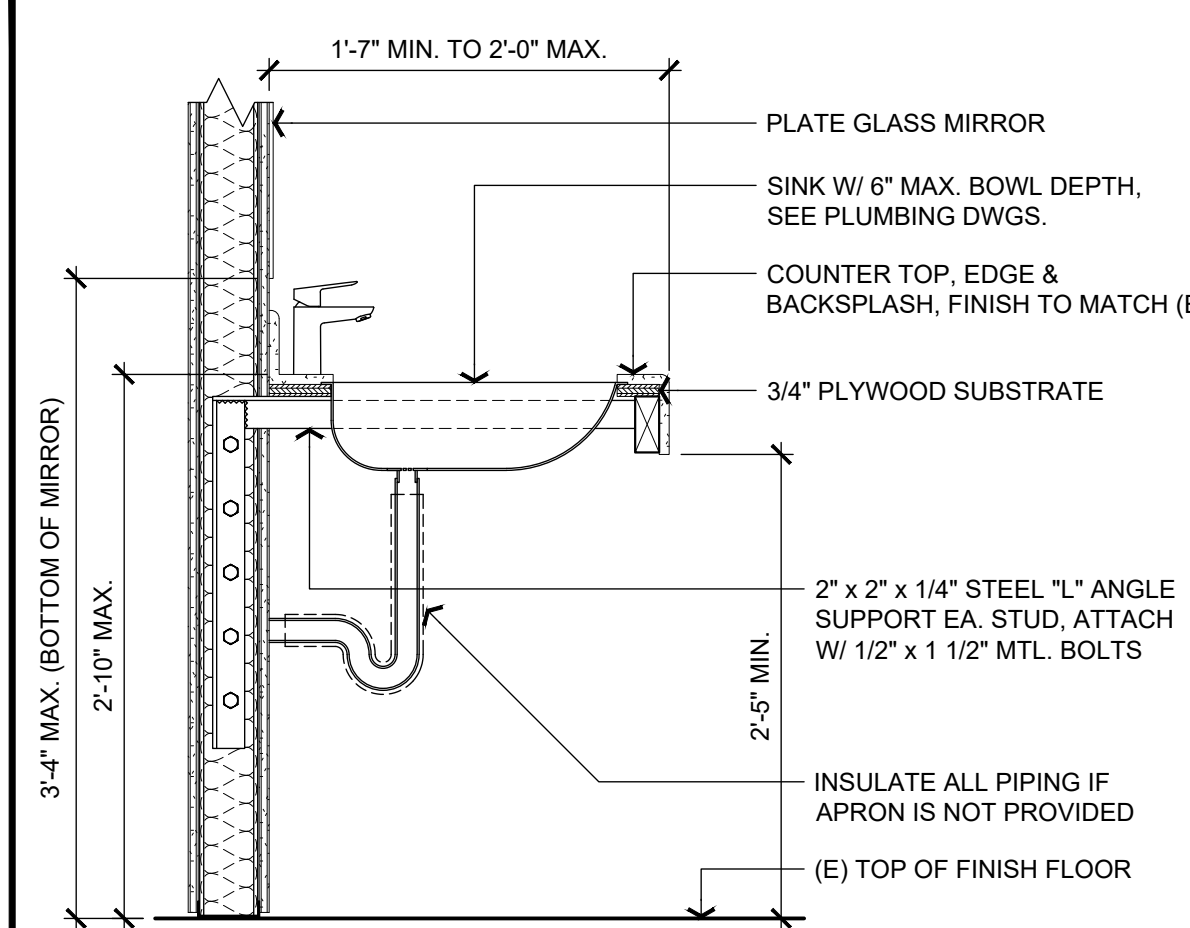
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DATE	06/27/2025
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JOB NO.	2223
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OF	15
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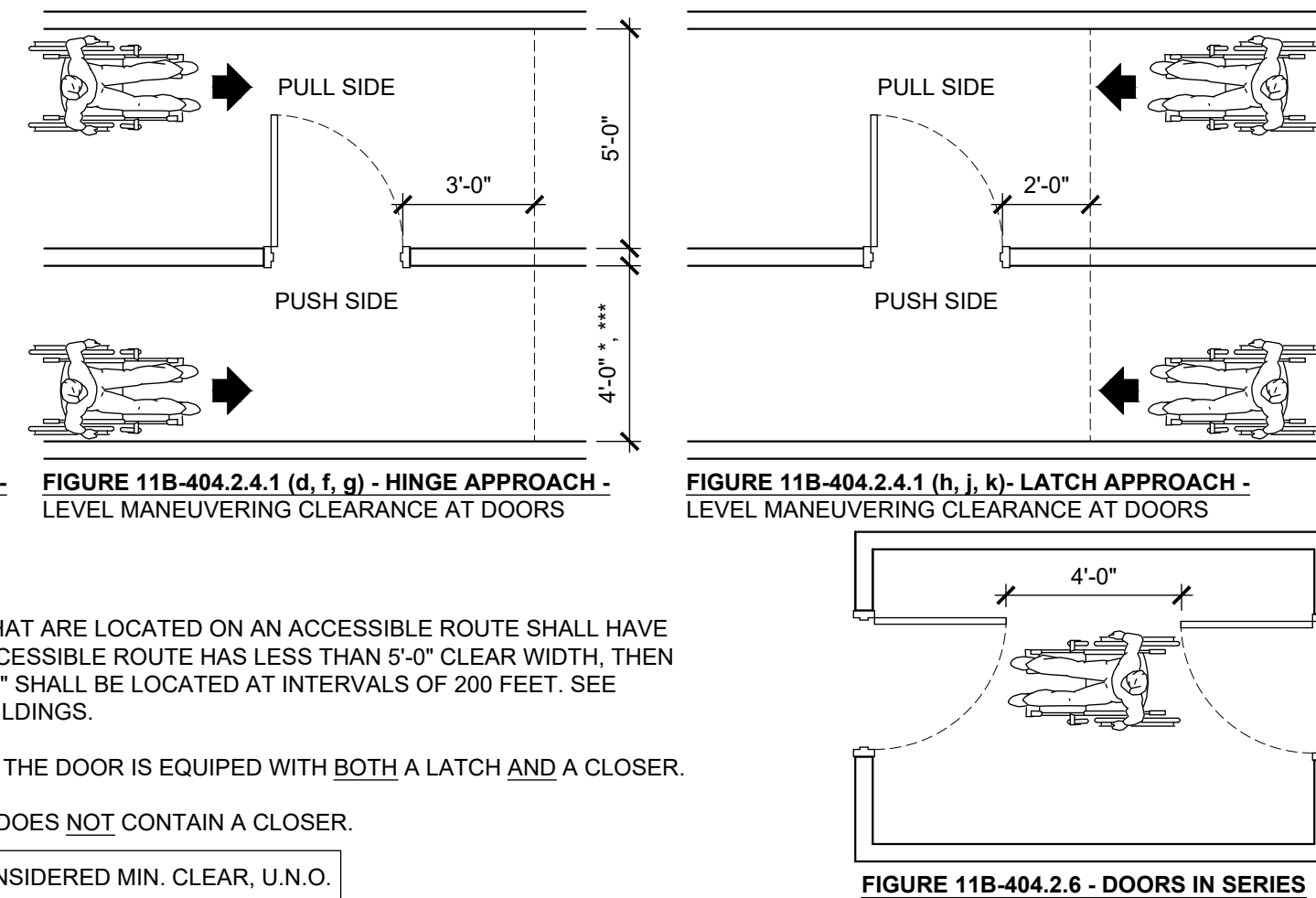


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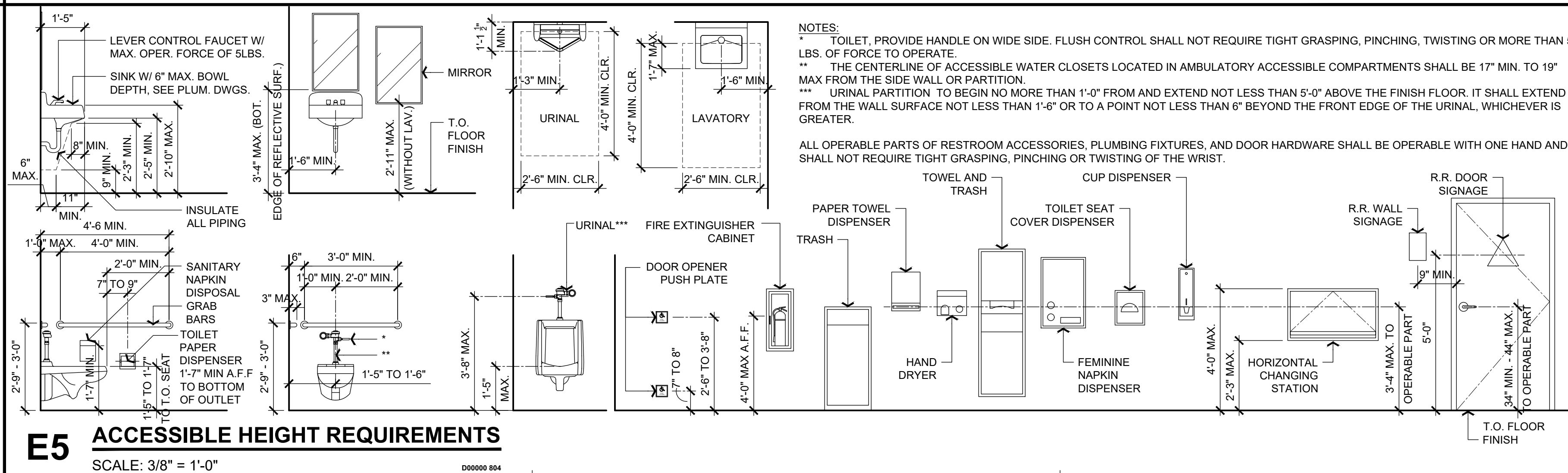
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D00000 806



D00000 112

D00000 80:





2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (July 2024 Supplement)

LEGEND

Y	N/A	RESPON. PARTY	YES	APPLICABLE
			RESPONSIBLE PARTY	
			ARCHITECT, STUC.	STRUCTURAL, PLUMB, PLUMBING
			MECH., MECHANICAL, ELECT., ELECTRICAL, LANDSC.	LANDSCAPE, CNTR-CONTRACTOR, OWNER, OWNER

Y	N/A	RESPON. PARTY

CHAPTER 3 GREEN BUILDING SECTION 301. GENERAL

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

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

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

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

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

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

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

SECTION 302 MIXED OCCUPANCY BUILDINGS

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

SECTION 303 PHASED PROJECTS

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

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

ABBREVIATION DEFINITIONS:

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

CHAPTER 5

NONRESIDENTIAL MANDATORY MEASURES

DIVISION 5.1 PLANNING AND DESIGN

SECTION 5.101 GENERAL

5.101.1 SCOPE

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

SECTION 5.102 DEFINITIONS

5.102.1 DEFINITIONS

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

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

ELECTRIC VEHICLE [EV], [BSC-CG, HCD] 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 (EV) CAPABLE SPACE. [BSC-CG, DSA-SS and HCD] A vehicle space with electrical panel space and load capacity to support a branch circuit and necessary raceways, both underground and/or surface mounted, to support EV charging.

ELECTRIC VEHICLE (EV) CHARGER. [BSC-CG, HCD] Off-board charging equipment used to charge an electric vehicle.

ELECTRIC VEHICLE CHARGING SPACE (EV SPACE). [HCD] A space intended for future installation of EV charging equipment and charging of electric vehicles.

ELECTRIC VEHICLE CHARGING STATION (EVCS). [BSC-CG, DSA-SS, HCD] One or more electric vehicle charging spaces served by EVSE or receptacle(s).

ELECTRIC VEHICLE (EV) READY SPACE. [HCD] A vehicle space which is provided with a branch circuit; any necessary raceways, both underground and/or surface mounted; to accommodate EV charging, terminating in a receptacle or a charger.

ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). [BSC-CG, DSA-SS and HCD] The conductors, including the ungrounded, grounded and equipment grounding conductors and the electric vehicle connectors, attachment plugs, personnel protection system, 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.

SECTION 5.105 DECONSTRUCTION AND REUSE OF EXISTING STRUCTURES

5.105.1 Scope. [BSC-CG] Effective July 1, 2024, alteration(s) to existing building(s) where the combined altered floor area is 100,000 square feet or greater shall comply with either Section 5.105.2, 5.409.2, or 5.409.3. Addition(s) to existing building(s) where the total floor area combined with the existing building(s) is 100,000 square feet or greater shall comply with either Section 5.105.2, Section 5.409.2, or Section 5.409.3. Effective January 1, 2026, the combined floor area shall be 50,000 square feet or greater.

[DSA-SS] Alteration(s) to existing building(s) where the combined altered floor area is 50,000 square feet or greater shall comply with either Section 5.105.2, 5.409.2, or 5.409.3. Addition(s) to existing building(s) where the total floor area combined with the existing building(s) is 50,000 square feet or greater shall comply with either Section 5.105.2, Section 5.409.2, or Section 5.409.3.

Exception [BSC-CG, DSA-SS]: Combined addition(s) to existing building(s) of two times the area or more of the existing building(s) is not eligible to meet compliance with Section 5.105.2.

5.105.2 Reuse of existing building. An alteration or addition to an existing building shall maintain at a minimum 45 percent combined of the existing building's primary structural elements (foundations, columns, beams, walls, and floors), and lateral elements) and existing building enclosure (roof framing, wall framing and exterior finishes). Window assemblies, insulation, portions of buildings deemed structurally unsound or hazardous, and hazardous materials that are remediated as part of the project shall not be included in the calculation.

5.105.2.1 Verification of compliance. Documentation shall be provided in the construction documents to demonstrate compliance with Section 5.105.2.

Note: Sample Worksheet WS-3 in Chapter 8 may be used to assist in documenting compliance with this section.

5.105.3 Deconstruction (Reserved).

SECTION 5.106 SITE DEVELOPMENT

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

5.106.4.2 Bicycle parking. [DSA-SS] For public schools and community colleges, comply with Sections 5.106.4.2.1 and 5.106.4.2.2

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

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

5.106.5.3 Electric vehicle (EV) charging. [N] [BSC-CG] Construction to provide electric vehicle infrastructure and facilitate electric vehicle charging shall comply with Section 5.106.5.3.1 EV capable spaces, Section 5.106.5.3.2 Electric vehicle charging stations and associated Table 5.106.5.3.1, or Section 5.106.5.3.6 Electric vehicle charging stations (EVCS)—Power allocation method and associated Table 5.106.5.3.6 and shall be provided in accordance with regulations in the *California Building Code* and the *California Electrical Code*.

Exceptions:

- On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
 - Where there is no local utility power supply.
 - Where the local utility is unable to supply adequate power.
 - Where there is evidence suitable to the local enforcement agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.
- Parking spaces accessible only by automated mechanical car parking systems are not required to comply with this code section.

5.106.5.3.1 EV capable spaces. [N] EV capable spaces shall be provided in accordance with Table 5.106.5.3.1 and the following requirements:

- Raceways complying with the California Electrical Code and no less than 1-inch (25 mm) diameter shall be provided and shall originate at a service panel or a subpanel(s) serving the area, and shall terminate in close proximity to the proposed location of the EV capable and into a suitable listed cabinet, box, enclosure or equivalent. A common raceway may be used to serve multiple EV charging spaces.
- A service panel or subpanel (s) shall be provided with panel space and electrical load capacity for a dedicated 208/240 volt, 40-ampere minimum branch circuit for each EV capable space, with delivery of 30-ampere minimum to an installed EVSE at each EVCS.
- The electrical system and any on-site distribution transformers shall have sufficient capacity to supply full rated amperage at each EV capable space.
- The service panel or subpanel circuit directory shall identify the reserved overcurrent protective device space(s) as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE".

Note: A parking space served by electric vehicle supply equipment or designed as a future EV charging space shall count as at least one standard automobile parking space only for the purpose of complying with any applicable minimum parking space requirements established by an enforcement agency. See vehicle Code Section 22511.2 for further details.

Y	N/A	RESPON. PARTY

TABLE 5.106.5.3.1

TOTAL NUMBER OF ACTUAL PARKING SPACES	NUMBER OF REQUIRED EV CAPABLE SPACES	NUMBER OF EVCS (EV CAPABLE SPACES PROVIDED WITH EVSE) ^{a,2}
0-9	0	0
10-25	2	0
26-50	8	2
51-75	13	3
76-100	17	4
101-150	25	6
151-200	35	9
201 AND OVER	20 percent of actual parking spaces ¹	25 percent of EV capable spaces ¹

- Calculation for spaces shall be rounded up to the nearest whole number.
- The number of required EVCS (EV capable spaces provided with EVSE) in column 3 count toward the total number of required EV capable spaces shown in column 2.
- At least one Level 2 EVSE shall be provided.

5.106.5.3.2 Electric vehicle charging stations (EVCS) EV capable spaces shall be provided with electric vehicle supply equipment (EVSE) to create EVCS in the number indicated in Table 5.106.5.3.1. The EVCS required by Table 5.106.5.3.1 shall be provided with Level 2 EVSE or DCFC as permitted in Section 5.106.5.3.2.1. At least one Level 2 EVSE shall be provided.

One EV charger with multiple connectors capable of charging multiple EVs simultaneously shall be permitted if the electrical load capacity required by Section 5.106.5.3.1 for each EV capable space is accumulatively supplied to the EV charger.

The installation of each DCFC EVSE shall be permitted to reduce the minimum number of required EV capable spaces without EVSE by five and reduce proportionally the required electrical load capacity to the service panel or subpanel.

5.106.5.3.2.1 The installation of each DCFC EVSE shall be permitted to reduce the minimum number of required EV capable spaces without EVSE or EVCS with Level 2 EVSE by five and reduce proportionally the required electrical load capacity to the service panel or subpanel.

5.106.5.3.2.2 The installation of two low power Level 2 EV charging receptacles shall be permitted to reduce the minimum number of required EV capable spaces without EVSE in Table 5.106.5.3.1 by one.

5.106.5.3.3 Use of automatic load management systems (ALMS). ALMS shall be permitted for EVCS. When ALMS is installed, the required electrical load capacity specified in Section 5.106.5.3.1 for each EVCS may be reduced when serviced by an EVSE controlled by an ALMS. Each EVSE controlled by an ALMS shall deliver a minimum 30 amperes to an EV when charging one vehicle and shall deliver a minimum 3.3 kW while simultaneously charging multiple EVs.

5.106.5.3.4 Accessible EVCS. When EVSE is installed, accessible EVSC shall be provided in accordance with the *California Building Code*, Chapter 11B, Section 11B-228.3.

Note: For EVCS signs, refer to Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its successor(s).

5.106.5.3.4 Accessible electric vehicle charging station (EVCS). When EVSE is installed, accessible EVCS shall be provided in accordance with the *California Building Code*, Chapter 11B, Section 11B-228.3.

5.106.5.3.5 Electric vehicle charging station signage. Electric vehicle charging stations shall be identified by signage or pavement markings in compliance with Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its successor(s).

Power allocation method shall include the following:

- Use any kVA combination of EV capable spaces, low power Level 2, Level 2 or DCFC EVSEs.
- At least one Level 2 EVSE shall be provided.

5.106.5.3.6 Electric vehicle charging stations (EVCS)—power allocation method. The power allocation method may be used as an alternative to the requirements in Section 5.106.5.3.1, Section 5.106.5.3.2 and associated Table 5.106.5.3.1. Use Table 5.106.5.3.6 to determine the total power in kVA required based on the total number of actual parking spaces.

TABLE 5.106.5.3.6

TOTAL NUMBER OF ACTUAL PARKING SPACES	MINIMUM TOTAL KVA @ 6.6 KVA	TOTAL KVA REQUIRED IN ANY COMBINATION OF EV CAPABLE, ^{3,4} LOW POWER LEVEL 2, LEVEL 2, 1, 2 OR DCFC
0-9	0	0
10-25	26.4	26.4
26-50	52.8	52.8
51-75	85.8	85.8
76-100	112.2	112.2
101-150	165	165
151-200	231	231
201 AND OVER	20 percent of actual parking spaces x 6.6	Total required kVA = P x 20 ÷ 6.6 Where P = Parking spaces in facility

- Level 2 EVSE @ 6.6 kVA minimum.
- At least one Level 2 EVSE shall be provided.
- Maximum allowed kVA to be utilized for EV capable spaces is 75 percent.
- If EV capable spaces are utilized, they shall meet the requirements of Section 5.106.5.3.1 EV capable spaces.

5.106.5.4 Additions or alterations to existing buildings or parking facilities [A]. [BSC-CG] Existing buildings or parking facilities being modified by one of the following shall comply with Section 5.106.5.4.1 or 5.106.5.4.2. When EVSE is installed, accessible EVCS shall be provided in accordance with the *California Building Code*, Chapter 11B, Section 11B-228.3.

- When the scope of construction work includes an increase in power supply to an electric service panel as part of a parking facility addition or alteration.
- When a new photovoltaic system is installed covering existing parking spaces.
- When additions or alterations to existing buildings are triggered pursuant to code Section 301.3 and the scope of work includes an increase in power supply to an electric service panel.

Exceptions:

- On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
 - Where there is no local utility power supply.
 - Where the local utility is unable to supply adequate power.
 - Where there is evidence suitable to the local enforcement agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.
- Remote parking facilities that do not have access to the building service panel.
- Parking area lighting upgrades where no trenching is part of the scope of work.
- Emergency repairs, including but not limited to water line break in parking facilities, natural disaster repairs, etc.

5.106.5.4.1 Existing buildings or parking areas without previously installed EV capable infrastructure [A]. When EV capable infrastructure does not exist at an existing parking facility or building, and the parking facility or building is undergoing an addition or alteration listed in Section 5.106.5.4, construction shall include electric vehicle charging in compliance with either Section 5.106.5.3 and associated Table 5.106.5.3.1, or Section 5.106.5.3.6 and associated Table 5.106.5.3.6 utilizing the existing EV capable allocated power and infrastructure for the total number of actual parking spaces being added or altered. If the area being added or altered exceeds the existing EV capable capacity, allocated power and infrastructure, provide additional EV charging as needed to comply with this section.

5.106.5.4.2 Existing buildings or parking areas with previously installed EV capable infrastructure [A]. When EV capable infrastructure is available at an existing parking facility or building, and the parking facility or building is undergoing an addition or alteration listed in Section 5.106.5.4, construction shall include electric vehicle charging in compliance with either Section 5.106.5.3 and associated Table 5.106.5.3.1, or Section 5.106.5.3.6 and associated Table 5.106.5.3.6 utilizing the existing EV capable allocated power and infrastructure for the total number of actual parking spaces being added or altered. If the area being added or altered exceeds the existing EV capable capacity, allocated power and infrastructure, provide additional EV charging as needed to comply with this section.

Y	N/A	RESPON. PARTY

5.106.5.5 Electric vehicle (EV) charging: medium-duty and heavy-duty. [N] [BSG-CG] Construction shall comply with Section 5.106.5.5.1 to facilitate future installation of electric vehicle supply equipment (EVSE). Construction for warehouses, grocery stores and retail stores, office buildings, and manufacturing facilities with planned off-street loading spaces shall also comply with Section 5.106.5.5.1 for future installation of medium- and heavy-duty EVSE.

Exceptions:

- On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
 - Where there is no local utility power supply.
 - Where the local utility is unable to supply adequate power.
 - Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.

When EVSE(s) is/are installed, it shall be in accordance with the *California Building Code*, the *California Electrical Code* and as follows:

5.106.5.5.1 Electric vehicle charging readiness requirements for warehouses, grocery stores, office buildings, and manufacturing facilities and retail stores with planned off-street loading spaces. [N]

In order to avoid future demolition when adding EV supply and distribution equipment, spare raceway(s) or busway(s) and adequate capacity for transformer(s), service panel(s) or subpanel(s) shall be installed at the time of construction in accordance with the *California Electrical Code*. Construction plans and specifications shall include, but are not limited to, the following:

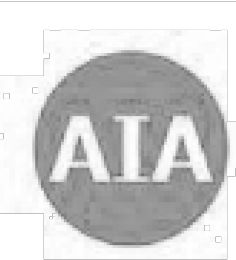
- The transformer, main service equipment and subpanels shall meet the minimum power requirement in Table 5.106.5.5.1 to accommodate the dedicated branch circuits for the future installation of EVSE.
- The construction documents shall indicate one or more location(s) convenient to the planned off-street loading space(s) reserved for medium- and heavy-duty ZEV charging cabinets and charging dispensers, and a pathway reserved for routing of conduit from the termination of the raceway(s) or busway(s) to the charging cabinet(s) and dispenser(s), as shown in Table 5.106.5.5.1.
- Raceway(s) or busway(s) originating at a main service panel or a subpanel(s) serving the area where potential future medium- and heavy-duty EVSE will be located and shall terminate in close proximity to the potential future location of the charging equipment for medium- and heavy-duty vehicles.
- The raceway(s) or busway(s) shall be of sufficient size to carry the minimum additional system load to the future location of the charging for medium- and heavy-duty ZEVs as shown in Table 5.106.5.5.1.

TABLE 5.106.5.5.1 RACEWAY CONDUIT AND PANEL POWER REQUIREMENTS FOR MEDIUM- AND HEAVY-DUTY EVSE [N]

BUILDING TYPE	BUILDING SIZE (SQ. FT.)	NUMBER OF OFF-STREET LOADING SPACES	ADDITIONAL CAPACITY REQUIRED (KVA) FOR RACEWAY & BUSWAY AND TRANSFORMER & PANEL
Grocery	10,000 to 90,000	1 or 2	200
	Greater than 90,000	3 or Greater	400
Manufacturing Facilities	10,000 to 50,000	1 or 2	200
	10,000 to 50,000	3 or Greater	400
Office Buildings	Greater than 50,000	1 or Greater	400
	10,000 to 135,000	1 or 2	200
Retail	10,000 to 135,000	3 or Greater	400
	Greater than 135,000	1 or Greater	400
Warehouse	10,000 to 135,000	1 or 2	200
	Greater than 135,000	3 or Greater	400
Warehouse	20,000 to 256,000	1 or 2	200
	Greater than 256,000	3 or Greater	400

Y	N/A	RESPON. PARTY

5.106.5.



California

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 2 (July 2024 Supplement)

LEGEND

Y N/A RESPON. PARTY
= YES APPLICABLE
= RESPONSIBLE PARTY
ARCHITECT, STVC. STRUCTURAL, PLUMB, PLUMBING
MECH. MECHANICAL, ELECT.-ELECTRICAL, LANDSC.-LANDSCAPE,
CNTR-CONTRACTOR, OWNER-OWNER

Y	N/A	RESPON. PARTY																																																																																										
5.106.5.6.2.1 Reduced number of EV capable spaces. The installation of each DCFC EVSE shall be permitted to reduce the minimum number of required EV capable spaces indicated in Table 5.106.5.6.1 by five and reduce proportionally the required electrical load capacity to the service panel or subpanel.																																																																																												
5.106.5.6.2.2 Multiple connectors. EVSE with multiple vehicle connectors capable of charging multiple EVs simultaneously shall be permitted if the electrical load capacity required by Section 5.106.5.6.1 for each EV capable space is accumulatively supplied to the EVSE.																																																																																												
5.106.5.6.2.3 Use of automatic load management systems (ALMS). ALMS shall be permitted for EVCS installed in accordance with Section 5.106.5.6.2. When ALMS is installed, the required electrical load capacity specified in Section 5.106.5.6.1 for each EVCS may be reduced when serviced by an EVSE controlled by an ALMS. Each EVSE controlled by an ALMS shall deliver a minimum 30 amperes to an EV when charging one vehicle and shall deliver a minimum 3.3 kW while simultaneously charging multiple EVs.																																																																																												
5.106.5.6.3 EVCS alternative compliance. In lieu of compliance with Section 5.106.5.6.2, EVCS shall be provided with Level 1, low power Level 2, or Level 2, or any combination of Level 1, low power Level 2 or Level 2 EVSE such that the total power supplied by the combination of EVSE meets the minimum power indicated in Table 5.106.5.6.3, based on the total number of actual parking spaces in each parking facility.																																																																																												
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5.106.5.6.4 EVCS for alterations or additions to parking facilities. Alterations of or additions to parking facilities shall provide EVCS in compliance with Section 5.106.5.6.4. The installation of infrastructure for EV capable spaces required to be provided without EVSE shall not be required.																																																																																												
5.106.5.6.4.1 Alterations of and additions to parking facilities. EVCS shall be provided in accordance with the number indicated in Table 5.106.5.6.1 or minimum power indicated in Table 5.106.5.6.3 when the scope of work includes an increase in power supply to an electric panel serving light fixtures illuminating the parking area or when area containing parking spaces is added to a parking facility. The number of required EVCS shall be based on the total number of existing and new parking spaces in the parking facility.																																																																																												
5.106.5.6.4.2 Alterations consisting of the installation of photovoltaic systems. EVCS shall be provided in accordance with the number indicated in Table 5.106.5.6.1 or maximum power indicated in Table 5.106.5.6.3 when a new photovoltaic system is installed in an existing parking facility.																																																																																												
5.106.5.6.5 Requirement to install EVSE. Level 2 EVSE shall be provided in all existing EV capable spaces to create EVCS when a project is required by California Administrative Code Section 4-309 to be submitted for plan approval to the Division of the State Architect. When EVSE is installed in existing EV capable spaces, accessible EVCS shall be provided in accordance with <i>California Building Code</i> Chapter 11B.																																																																																												
Exception: Projects in which improvements in parking areas consist only of accessibility improvements are not required to comply with Section 5.106.5.6.5.																																																																																												
5.106.8 LIGHT POLLUTION REDUCTION. [N]. I Outdoor lighting systems shall be designed and installed to comply with the following:																																																																																												
- The minimum requirements in the California Energy Code for Lighting Zones 0-4 as defined in Chapter 10, Section 10-114 of the California Administrative Code; and - Backlight (B) ratings as defined in IES TM-15-11 (shown in Table A-1 in Chapter 8); - Uplight and Glare ratings as defined in California Energy Code (shown in Tables 130.2-A and 130.2-B in Chapter 8) and - Allowable BUG ratings not exceeding those shown in Table 5.106.8, [N] or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.																																																																																												
Exceptions: [N] - Luminaires that qualify as exceptions in Sections 130.2 (b) and 140.7 of the California Energy Code. - Emergency lighting. - Building facade meeting the requirements in Table 140.7-B of the California Energy Code, Part 6. - Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8 Alternate materials, designs and methods of construction. - Luminaires with less than 6,200 initial luminaire lumens.																																																																																												
<table><tr><th colspan="6">TABLE 5.106.8 [N] MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS^{1,2}</th></tr><tr><th>ALLOWABLE RATING</th><th>LIGHTING ZONE L20</th><th>LIGHTING ZONE L21</th><th>LIGHTING ZONE L22</th><th>LIGHTING ZONE L23</th><th>LIGHTING ZONE L24</th></tr><tr><td>MAXIMUM ALLOWABLE BACKLIGHT RATING¹</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Luminaire greater than 2 mounting heights (MH) from property line</td><td>N/A</td><td>No Limit</td><td>No Limit</td><td>No Limit</td><td>No Limit</td></tr><tr><td>Luminaire back hemisphere is 1-2 MH from property line</td><td>N/A</td><td>B2</td><td>B3</td><td>B4</td><td>B4</td></tr><tr><td>Luminaire back hemisphere is 0.5-1 MH from property line</td><td>N/A</td><td>B1</td><td>B2</td><td>B3</td><td>B3</td></tr><tr><td>Luminaire back hemisphere is less than 0.5 MH from property line</td><td>N/A</td><td>B0</td><td>B0</td><td>B1</td><td>B2</td></tr><tr><td>MAXIMUM ALLOWABLE UPLIGHT RATING (U)</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>For area lighting ></td><td>N/A</td><td>U0</td><td>U0</td><td>U0</td><td>U0</td></tr><tr><td>For all other outdoor lighting, including decorative luminaires</td><td>N/A</td><td>U1</td><td>U2</td><td>U3</td><td>UR</td></tr><tr><td>MAXIMUM ALLOWABLE GLARE RATING² (G)</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>MAXIMUM ALLOWABLE GLARE RATING² (G)</td><td>N/A</td><td>G1</td><td>G2</td><td>G3</td><td>G4</td></tr><tr><td>MAXIMUM ALLOWABLE GLARE RATING² (G)</td><td>N/A</td><td>G0</td><td>G1</td><td>G1</td><td>G2</td></tr><tr><td>MAXIMUM ALLOWABLE GLARE RATING² (G)</td><td>N/A</td><td>G0</td><td>G0</td><td>G1</td><td>G1</td></tr><tr><td>MAXIMUM ALLOWABLE GLARE RATING² (G)</td><td>N/A</td><td>G0</td><td>G0</td><td>G0</td><td>G1</td></tr></table>			TABLE 5.106.8 [N] MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS ^{1,2}						ALLOWABLE RATING	LIGHTING ZONE L20	LIGHTING ZONE L21	LIGHTING ZONE L22	LIGHTING ZONE L23	LIGHTING ZONE L24	MAXIMUM ALLOWABLE BACKLIGHT RATING¹						Luminaire greater than 2 mounting heights (MH) from property line	N/A	No Limit	No Limit	No Limit	No Limit	Luminaire back hemisphere is 1-2 MH from property line	N/A	B2	B3	B4	B4	Luminaire back hemisphere is 0.5-1 MH from property line	N/A	B1	B2	B3	B3	Luminaire back hemisphere is less than 0.5 MH from property line	N/A	B0	B0	B1	B2	MAXIMUM ALLOWABLE UPLIGHT RATING (U)						For area lighting >	N/A	U0	U0	U0	U0	For all other outdoor lighting, including decorative luminaires	N/A	U1	U2	U3	UR	MAXIMUM ALLOWABLE GLARE RATING² (G)						MAXIMUM ALLOWABLE GLARE RATING² (G)	N/A	G1	G2	G3	G4	MAXIMUM ALLOWABLE GLARE RATING² (G)	N/A	G0	G1	G1	G2	MAXIMUM ALLOWABLE GLARE RATING² (G)	N/A	G0	G0	G1	G1	MAXIMUM ALLOWABLE GLARE RATING² (G)	N/A	G0	G0	G0	G1
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- IESNA Lighting Zones 0 and 5 are not applicable; refer to Lighting Zones as defined in the <i>California Energy Code</i> and Chapter 10 of the <i>California Administrative Code</i>. - For property lines that abut public walkways, bikeways, plazas and parking lots, the property line may be considered to be 5 feet beyond the actual property line for purpose of determining compliance with this section. For property lines that abut public roadways and public transit corridors, the property line may be considered to be the centerline of the public roadway or public transit corridor for the purpose of determining compliance with this section. - General lighting luminaires in areas such as outdoor parking, sales or storage lots shall meet these reduced ratings. Decorative luminaires located in these areas shall meet U-value limits for "all other outdoor lighting"																																																																																												

Y	N/A	RESPON. PARTY
5.106.8.1 Facing-Backlight Luminaires within 2MH of a property line shall be oriented so that the nearest property line is behind the fixture, and shall comply with the backlight rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point of that property line.		
Exception: Corners. If two property lines (or two segments of the same property line) have equidistant point to the luminaire, then the luminaire may be oriented so that the intersection of the two lines (the corner) is directly behind the luminaire. The luminaire shall still use the distance to the nearest point(s) on the property lines to determine the required backlight rating.		
5.106.8.2 Facing-Glare. For luminaires covered by 5.106.8.1, if a property line also exists within or extends into the front hemisphere within 2MH of the luminaire then the luminaire shall comply with the more stringent glare rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point on the nearest property line within the front hemisphere.		
Note: [N] - See also <i>California Building Code</i>, Chapter 12, Section 1205.6 for college campus lighting requirements for parking facilities and walkways. - Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for IES TM-15-11 Table A-1, <i>California Energy Code</i> Tables 130.2-A and 130.2-B. - Refer to the <i>California Building Code</i> for requirements for additions and alterations.		
5.106.10 GRADING AND PAVING. Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following: - Swales. - Water collection and disposal systems. - French drains. - Water retention gardens. - Other water measures which keep surface water away from buildings and aid in groundwater recharge. Exception: Additions and alterations not altering the drainage path.		
5.106.12 SHADE TREES [DSA-SS]. Shade Trees shall be planted to comply with Sections 5.106.12.1, 5.106.12.2, and 5.106.12.3. Percentages shown shall be measured at noon on the summer solstice. Landscape irrigation necessary to establish and maintain tree health shall comply with Section 5.304.6.		
5.106.12.1 Surface parking areas. Shade tree plantings, minimum #10 container size or equal, shall be installed to provide shade over 50 percent of the parking area within 15 years.		
Exceptions: Surface parking area covered by solar photovoltaic shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in lieu of shade tree planting.		
5.106.12.2 Landscape areas. Shade tree plantings, minimum #10 container size or equal shall be installed to provide shade of 20% of the landscape area within 15 years.		
Exceptions: Playfields for organized sport activity are not included in the total area calculation.		
5.106.12.3. Hardscape areas. Shade tree plantings, minimum #10 container size or equal shall be installed to provide shade over 20 percent of the hardscape area within 15 years.		
Exceptions: - Walks, hardscape areas covered by solar photovoltaic shade structures or shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in lieu of shade tree planting. - Designated and marked play areas of organized sport activity are not included in the total area calculation.		
DIVISION 5.2 ENERGY EFFICIENCY		
SECTION 5.201 GENERAL		
5.201.1 Scope [BSC-CG]. <i>California Energy Code [DSA-SS].</i> For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory building standards.		
DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION		
SECTION 5.301 GENERAL		
5.301.1 Scope. The provisions of this chapter shall establish the means of conserving water use indoors, outdoors and in wastewater conveyance.		
SECTION 5.302 DEFINITIONS		
5.302.1 Definitions. The following terms are defined in Chapter 2 (<i>and are included here for reference</i>)		
EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAF) [DSA-SS]. An adjustment factor when applied to reference evapotranspiration that adjusts for plant factors and irrigation efficiency, which are two major influences on the amount of water that needs to be applied to the landscape.		
FOOTPRINT AREA [DSA-SS]. The total area of the furthest exterior wall of the structure projected to natural grade, not including exterior areas such as stairs, covered walkways, patios and decks.		
METERING FAUCET. A self-closing faucet that dispenses a specific volume of water for each actuation cycle. The volume or cycle duration can be fixed or adjustable.		
GRAYWATER. Pursuant to Health and Safety Code Section 17922.12, "graywater" means untreated wastewater that has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or operating wastes. "Graywater" includes, but is not limited to wastewater from bathtubs, showers, bathroom washbasins, clothes washing machines and laundry tubs, but does not include waste water from kitchen sinks or dishwashers.		
MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWEL0). The California ordinance regulating landscape design, installation and maintenance practices that will ensure commercial, multifamily and other developer installed landscapes greater than 2500 square feet meet an irrigation water budget developed based on landscaped area and climatological parameters.		
MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWEL0) [HCD]. The California model ordinance (California Code of Regulations, Title 23, Division 2, Chapter 2.7), regulating landscape design, installation and maintenance practices. Local agencies are required to adopt the updated MWEL0, or adopt a local ordinance at least as effective as the MWEL0.		
POTABLE WATER. Water that is drinkable and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards. See definition in the California Plumbing Code, Part 5.		
POTABLE WATER [HCD]. Water that is satisfactory for drinking, culinary, and domestic purposes, and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards and the requirements of the Health Authority Having Jurisdiction.		
RECYCLED WATER. Water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur [Water Code Section 13050 (n)]. Simply put, recycled water is water treated to remove waste matter attaining a quality that is suitable to be used for the water again.		
SUBMETER. [HCD 1] A secondary device beyond a meter that measures water consumption of an individual rental unit within a multiunit residential structure or mixed-use residential and commercial structure. (See Civic Code Section 1954.202 (g) and Water code Section 517 for additional details.)		
WATER BUDGET. Is the estimated total landscape irrigation water use which shall not exceed the maximum applied water allowance calculated in accordance with the Department of Water Resources Model Efficient Landscape Ordinance (MWEL0).		
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: - For each individual leased, rented or other tenant space within the building projected to consume more than 100 gal/day (380 L/day), including, but not limited to, spaces used for laundry or cleaners, restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop. - Where separate submeters for individual building tenants are unfeasible, for water supplied to the following subsystems: - Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s). - Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s). - Steam and hot water boilers with energy input more than 500,000 Btu/h (147 kW).		
5.303.1.2 Excess consumption. A separate submeter or metering device shall be provided for any tenant within a new building or within an addition that is projected to consume more than 1,000 gal/day.		

Y	N/A	RESPON. PARTY												
5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:														
5.303.3.1 Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-Type Toilets.														
Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.														
5.303.3.2 Urinals.														
5.303.3.2.1 Wall-mounted Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush.														
5.303.3.2.2 Floor-mounted Urinals. The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush.														
5.303.3.3 Showerheads. [BSC-CG]														
5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.														
5.303.3.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time.														
Note: A hand-held shower shall be considered a showerhead.														
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 [rim space (inches) at 60 psi].														
5.303.3.4.4 Metering faucets. Metering faucets shall not deliver more than 0.20 gallons per cycle.														
5.303.3.4.5 Metering faucets for wash fountains. Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per minute/20 [rim space (inches) at 60 psi].														
Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.														
5.303.3.4.6 Pre-rinse spray valve When installed, shall meet the requirements in the <i>California Code of Regulations</i> , 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 <i>California Code of Regulations</i> , Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) and Section 1605.3 (h)(4)(A).														
<table><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><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></table>			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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Product Class 3 (> 8.0 ozf)	1.28													
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 <i>California Plumbing Code</i> , and shall meet the applicable standards referenced in Table 1701.1 of the <i>California Plumbing Code</i> 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 (MWEL0), whichever is more stringent.														
Notes: - The Model Water Efficient Landscape Ordinance (MWEL0) is located in the California Code of Regulations, Title 23, Chapter 2.7, Division 2. - MWEL0 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 (MWEL0) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, <i>California Code of Regulations</i> , except that the evapotranspiration adjustment factor (ETAF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35.														
Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MWEL0.														
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 specify the requirements of achieving material conservation, resource efficiency, and greenhouse gas (GHG) emission reduction through protection of buildings from exterior moisture, construction waste diversion, employment of techniques to reduce pollution through recycling of materials, the installation of products with lower GHG emissions and building commissioning or testing and adjusting.														
SECTION 5.402 DEFINITIONS														
5.402.1 DEFINITIONS. The following terms are defined in Chapter 2 (<i>and are included here for reference</i>)														
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.														

Y	N/A	RESPON. PARTY
BUY CLEAN CALIFORNIA ACT (BCCA). The Buy Clean California Act (BCCA) (Public Contract Code Sections 3500-3505) targets carbon emissions associated with the production of structural steel (hot-rolled sections, hollow structural sections, and plate), concrete reinforcing steel, flat glass, and mineral wool board insulation. The maximum acceptable global warming potential (GWP) limits are established by the Department of General Services (DGS), in consultation with the California Air Resources Board (CARB).		
CRADLE-TO-GRAVE. Activities associated with a product or building's life cycle from the extraction stage through disposal stage, and covering modules A1 through C4 in accordance with ISO Standards 14025 and 21930.		
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.		
REFERENCE STUDY PERIOD. The period of use for the building, in years, that will be assumed for life cycle assessment.		
TEST. A procedure to determine quantitative performance of a system or equipment		
TYPE III ENVIRONMENTAL PRODUCT DECLARATION (EPD). A third-party verified report that summarizes how a product impacts the environment. Type III EPDs can be either product-specific, factory-specific, or industry-wide EPDs. See "Cradle-to-Gate."		
FACTORY-SPECIFIC EPD. A product-specific Type III EPD in which the environmental impacts can be attributed to a single manufacturer and manufacturing facility.		
INDUSTRY-WIDE EPD (IW-EPD). A Type III EPD in which the environmental impacts are a group of the typical manufacturing impacts for a range of products within the same product category for an average of manufacturers.		
PRODUCT-SPECIFIC EPD. A Type III EPD in which the environmental impacts can be attributed to a product design and manufacturer across multiple facilities.		
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: - An installed awning at least 4 feet in depth. - The door is protected by a roof overhang at least 4 feet in depth. - The door is recessed at least 4 feet. - 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 Sections 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: - 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. - Determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream). - Identifies diversion facilities where construction and demolition waste material collected will be taken. - Specifies that the amount of construction and demolition waste materials 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: - Excavated soil and land-clearing debris. - Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist. - 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: - 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. - 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.dtsc.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: - 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. - 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 5.409 LIFE CYCLE ASSESSMENT		
5.409.1 SCOPE. [BSC-CG] Effective July 1, 2024, projects consisting of newly constructed building(s) with a combined floor area of 100,000 square feet or greater shall comply with either Section 5.409.2 or Section 5.409.3. Alteration(s) to existing building(s) where the combined altered floor area is 100,000 square feet or greater shall comply with either Section 5.105.2, 5.409.2, or 5.409.3. Addition(s) to existing building(s) where the total floor area combined with the existing building(s) is 100,000 square feet or greater shall comply with either Section 5.105.2, Section 5.409.2, or Section 5.409.3. Effective January 1, 2026, the combined floor area shall be 50,000 square feet or greater.		
[DSA-SS] Projects consisting of newly constructed building(s) with a combined floor area of 50,000 square feet or greater shall comply with either Section 5.409.2 or Section 5.409.3. Alteration(s) to existing building(s) where the combined altered floor area is 50,000 square feet or greater shall comply with either Section 5.105.2, 5.409.2, or 5.409.3. Addition(s) to existing building(s) where the total floor area combined with the existing building(s) is 50,000 square feet or greater shall comply with either Section 5.105.2, Section 5.409.2, or Section 5.409.3.		



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JOB TITLE:

CONSTRUCTION DOCUMENTS FOR:
**YOLO COUNTY - ROADS
BUILDING RENOVATIONS**
284 W. BEAMER STREET
WOODLAND, CA
YOLO COUNTY JOB NO. WA24-07-5292
CLIENT: YOLO COUNTY GENERAL SERVICES DEPARTMENT
ADDRESS: 120 W. MAIN STREET, SUITE D, WOODLAND CA

REVISIONS:	
DATE:	DESCRIPTION:
△	
△	
△	
△	
△	
△	

DATE 06/27/2025
DRAWN DH/JDC
JOB NO. 22232
SHEET **A0.3**
OF 15 SHEETS
CALGREEN



California

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 3 (July 2024 Supplement)

LEGEND

Y N/A RESP. PARTY
= YES APPLICABLE
= RESPONSIBLE PARTY
ARCH-ARCHITECT, ELEC-ELECTRICAL, PLUMB-PLUMBING, MECH-MECHANICAL, ELEC-ELECTRICAL, LANDSC-LANDSCAPE, CNTR-CONTRACTOR, OWNER-OWNER

Y	N/A	RESP. PARTY
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5.409.2 Whole building life cycle assessment. Projects shall conduct a cradle-to-grave whole building life cycle assessment performed in accordance with ISO 14040 and ISO 14044, excluding operating energy, and demonstrating a minimum 10-percent reduction in global warming potential (GWP) as compared to a reference baseline building of similar size, function, complexity, type of construction, material specification, and location that meets the requirements of the California Energy Code currently in effect. Software used to conduct the whole building life cycle assessment, including reference baseline building, shall have a data set compliant with ISO 14044, and ISO 21930 or EN 15804, and the software shall conform to ISO 21931 and/or EN 15978. The software tools and data sets shall be the same for evaluation of both the baseline building and the proposed building.

Notes:

1. Software for calculating whole building life cycle assessment is available for free at Athena Sustainable Materials Institute (<https://calculatedata.com/software/impact-estimator/>) and OneClick LCA-Planetary (www.oneclicklca.com/planetary). Paid versions include, but are not limited to, Sphera GABI Solutions (gabi.sphera.com), SimaPro (sima.pro), One-Click LCA (www.oneclicklca.com) and Tally for Revit (apps.autodesk.com).

2. ASTM E2921-22 "Standard Practice for Minimum Criteria for Comparing Whole Building Life Cycle Assessments for Use with Building Codes, Standards, and Rating Systems" may be consulted for the assessment.

3. In addition to the required documentation specified in Section 5.409.2.3, Worksheet WS-9 may be required by the enforcing entity to demonstrate compliance with the requirements.

5.409.2.1 Building components. Building enclosure components included in the assessment shall be limited to glazing assemblies, insulation, and exterior finishes. Primary and secondary structural members included in the assessment shall be limited to footings and foundations, and structural columns, beams, walls, roofs, and floors.

5.409.2.2 Reference study period. The reference study period of the proposed building shall be equal to the reference baseline building and shall be 60 years.

5.409.2.3 Verification of compliance. A summary of the GWP analysis produced by the software and Worksheet WS-4 signed by the design professional of record shall be provided in the construction documents as documentation of compliance. A copy of the whole building life cycle assessment which includes the GWP analysis produced by the software, in addition to maintenance and training information, shall be included in the operation and maintenance manual and shall be provided to the owner at the close of construction. The enforcing agency may require inspection and inspection reports in accordance with Sections 702.2 and 703.1 during and at completion of construction to demonstrate substantial conformance. Inspection shall be performed by the design professional of record or third party acceptable to the enforcing agency.

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5.409.3 Product GWP compliance—prescriptive path. Each product that is permanently installed and listed in Table 5.409.3 shall have a Type III environmental product declaration (EPD), either product-specific or factory-specific.

TABLE 5.409.3
PRODUCT GWP LIMITS

BUY CLEAN CALIFORNIA MATERIALS PRODUCT CATEGORY ¹	MAXIMUM ACCEPTABLE GWP VALUE (unfabricated) (GWP _{allowed})	UNIT OF MEASUREMENT
Hot-rolled structural steel sections	1.77	MT CO ₂ e/MT
Hollow structural sections	3.00	MT CO ₂ e/MT
Steel plate	2.61	MT CO ₂ e/MT
Concrete reinforcing steel	1.56	MT CO ₂ e/MT
Flat glass	2.50	kg CO ₂ e/MT
Light-density mineral wool board insulation	5.83	kg CO ₂ e/MT
Heavy-density mineral wool board insulation	14.28	kg CO ₂ e/MT
Concrete, Ready-Mixed ^{2, 3}		
CONCRETE PRODUCT CATEGORY	MAXIMUM GWP ALLOWED VALUE (GWP _{allowed})	UNIT OF MEASUREMENT
up to 2499 psi	450	kg CO ₂ e/m ³
2500–3499 psi	489	kg CO ₂ e/m ³
3500–4499 psi	566	kg CO ₂ e/m ³
4500–5499 psi	661	kg CO ₂ e/m ³
5500–6499 psi	701	kg CO ₂ e/m ³
6500 psi and greater	799	kg CO ₂ e/m ³
Concrete, Lightweight Ready-Mixed ²		
CONCRETE PRODUCT CATEGORY	MAXIMUM GWP ALLOWED VALUE (GWP _{allowed})	UNIT OF MEASUREMENT
up to 2499 psi	875	kg CO ₂ e/m ³
2500–3499 psi	956	kg CO ₂ e/m ³
3500–4499 psi	1039	kg CO ₂ e/m ³

1. The GWP values of the products listed in Table 5.409.3 are based on 175 percent of Buy Clean California Act (BCCA) GWP values, except for concrete products which are not included in the BCCA.
2. For concrete, 175 percent of the National Ready Mixed Concrete Association (NRMCA) 2022 version 3 Pacific Southwest regional benchmark values are used for the GWP allowed, except for High Early Strength.
3. Concrete High Early Strength ready-mixed shall be calculated at 150 percent of the ready-mixed concrete GWP allowed values for each product category.

5.409.3.1 Products shall not exceed the maximum GWP value specified in Table 5.409.3.

Exception: Concrete may be considered one product category to meet compliance with this section. A weighted average of the maximum GWP for all concrete mixes installed in the project shall be less than the weighted average maximum GWP allowed per Table 5.409.3 using Exception Equation 5.409.3.1. Calculations shall be performed with consistent units of measurement for the material quantity and the GWP value.

For the purposes of this exception, industry-wide EPDs are acceptable.

Exception EQUATION 5.409.3.1

$$GWP_p < GWP_{allowed}$$

$$\text{where } GWP_p = \sum (GWP_i)(V_i)$$

$$\text{and } GWP_{allowed} = \sum (GWP_{allowed_i})(V_i)$$

and

V_i = each concrete mix installed in the project

GWP_i = the GWP for concrete mix i per concrete

mix EPD, in kg CO₂e/m³

$GWP_{allowed}$ = the GWP potential allowed for concrete

mix i per Table 5.409.3

V_i = the volume of concrete mix i installed in the project, in m³

Y	N/A	RESP. PARTY
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5.409.3.2 Verification of compliance. Calculations to demonstrate compliance, Type III EPDs for products used to complete the project, and Worksheet WS-5 signed by the design professional of record shall be provided on the construction documents. Updated EPDs for products used in construction shall be provided to the owner at the close of construction and to the enforcement entity upon request. The enforcing agency may require inspection and inspection reports in accordance with Sections 702.2 and 703.1 during and at completion of construction to demonstrate substantial conformance. Inspection shall be performed by the design professional of record or third party acceptable to the enforcing agency.

SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS

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

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

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

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

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

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

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 L-occupancies that are not regulated by OSHA 1910 or for L-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:

- Owner's or Owner representative's project requirements.
- Basis of design.
- Commissioning measures shown in the construction documents.
- Commissioning plan.
- Functional performance testing.
- Documentation and training.
- Commissioning report.

Exceptions:

- Unconditioned warehouses of any size.
- Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within unconditioned warehouses.
- Tenant improvements less than 10,000 square feet as described in Section 303.1.1.
- 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:

- 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:

- Environmental and sustainability goals.
- Building sustainable goals.
- Indoor environmental quality requirements.
- Project program, including facility functions and hours of operation, and need for after hours operation.
- Equipment and systems expectations.
- Building operation 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:

- Renewable energy systems.
- Landscape irrigation systems.
- 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:

- General project information.
- Systems to be commissioned. Plans to test systems and components shall include:
 - An explanation of the original design intent.
 - Equipment and systems to be tested, including the extent of tests.
 - Functions to be tested.
 - Conditions under which the test shall be performed.
 - Measurable criteria for acceptable performance.
- Commissioning team information.
- 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:

- Site information, including facility description, history and current requirements.
- Site contact information.
- Basic operations and maintenance, including general site operating procedures, basic troubleshooting, recommended maintenance requirements, site events log.
- Major systems.
- Site equipment inventory and maintenance notes.
- A copy of verifications required by the enforcing agency or this code.
- 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:

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

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

5.410.4 TESTING AND ADJUSTING. New buildings less than 10,000 square feet. Testing and adjusting of systems shall be required for new buildings less than 10,000 square feet or new systems to serve an addition or alteration subject to Section 303.1.

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5.410.4.2 (Reserved)

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting system and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements and Sections 120.5, 120.6, 130.4, and 140.9(b)(3) for additional testing requirements of specific systems.

5.410.4.2 Systems. Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include at a minimum, as applicable to the project:

- Renewable energy systems.
- Landscape irrigation systems.
- 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 guarantees/warranties for each system. O & M instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related regulations.

5.410.4.5.1 Inspections and reports. Include a copy of all inspection verifications and reports required by the enforcing agency.

DIVISION 5.5 ENVIRONMENTAL QUALITY

SECTION 5.501 GENERAL

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

SECTION 5.502 DEFINITIONS

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

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

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

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

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

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

Note: See CCR, Title 17, Section 93120.1.

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

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

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

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

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

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

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

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

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

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

HIGH-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that is: (a) a chlorofluorocarbon, a 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 change in weight of ozone formed by adding a compound to the "Base Reactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundredths of a gram (g O₃/g ROG).

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

PSIG. Pounds per square inch, 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.

Y	N/A	RESP. PARTY
☐	☐	MECH

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 regulations 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 all 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.

5.504.4 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.6.

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

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

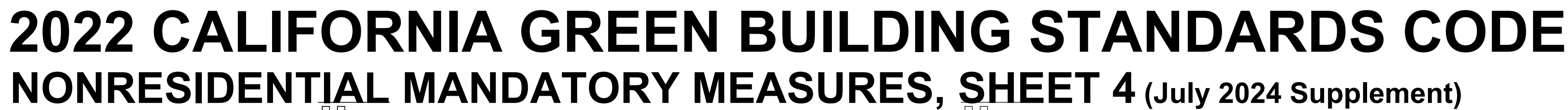
2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions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

TABLE 5.504.4.1 - ADHESIVE VOC LIMIT^{1,2}

Less Water and Less Exempt Compounds in Grams per Liter

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

</



Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY
ARCH- ARCHITECT, STRC- STRUCTURAL, PLMBG- PLUMBING
MECH- MECHANICAL, ELECT- ELECTRICAL, LNOSC- LANDSCAPE
CNTR- CONTRACTOR, OWN- OWNER



Comstock Johnson

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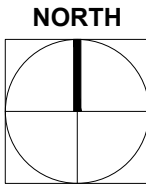
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CALGREEN

OF	15	SHEETS
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SCALE: 1/8" = 1'-0"

NOTE : * NON-NUMBERED ROOMS NOTED ARE OUTSIDE OF THE AREA OF WORK



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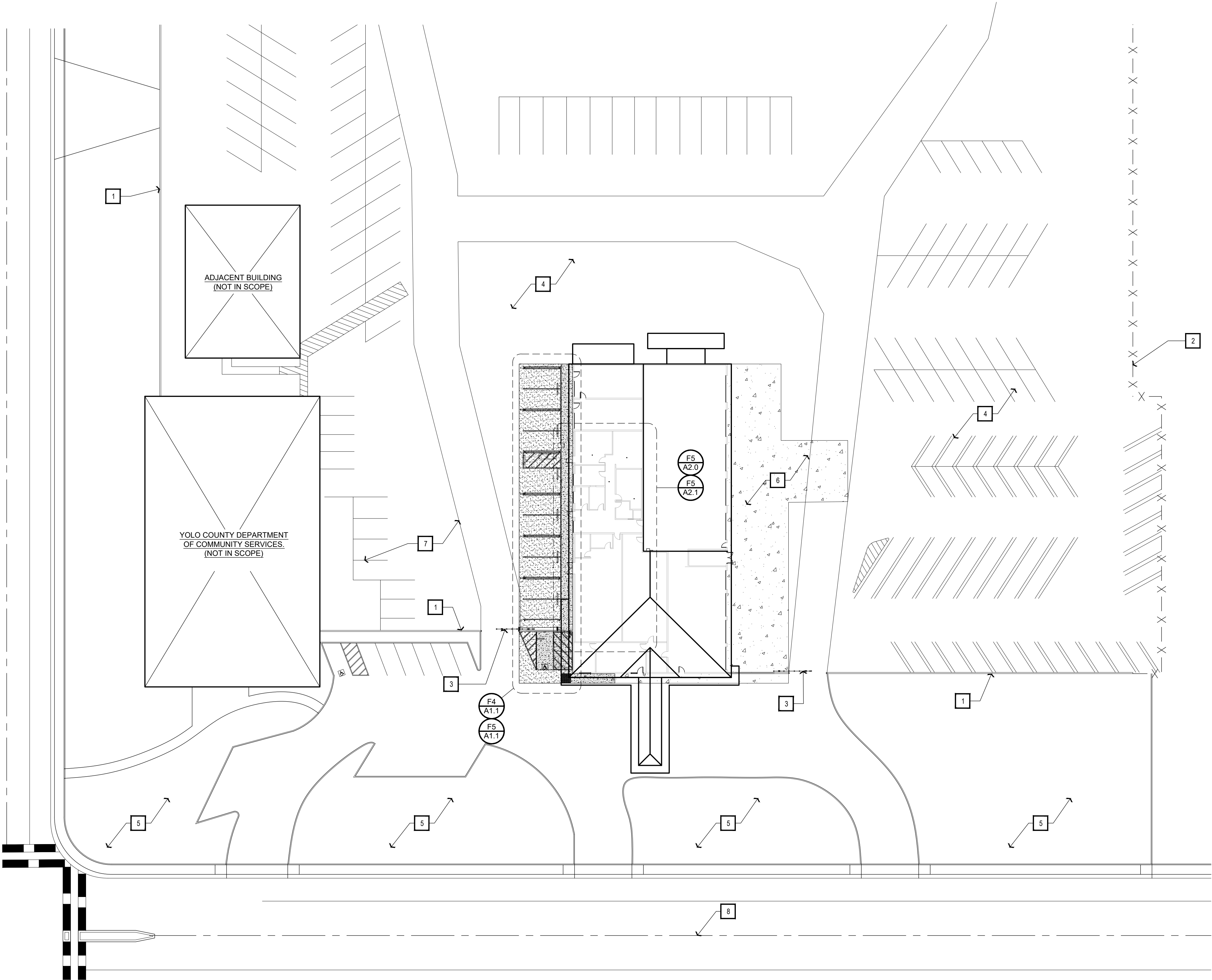
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F5 SITE PLAN
SCALE: 1" = 30'-0"

KEY NOTES:

1. (E) CMU SITE WALL.
2. (E) CHAIN LINK FENCE AT INTERIOR PROPERTY LINES.
3. (E) ELECTRIC ROLLING GATES W/ "CLICK2ENTER" ELECTRIC GATE EMERGENCY CONTROLLER @ +6'-0" ABOVE THE ASPHALT MIN., AND KNOX BOX, MODEL# 5200 ON FENCE @ +5'-0" ABOVE THE ASPHALT
4. (E) ASPHALT PARKING LOT
5. (E) LANDSCAPE PLANTERS
6. (E) CONCRETE PAD ALONG GARAGE SIDE OF BUILDING
7. (E) 4" WIDE WHITE TRAFFIC PAINT PARKING LOT STRIPING
8. (E) PROPERTY LINE.



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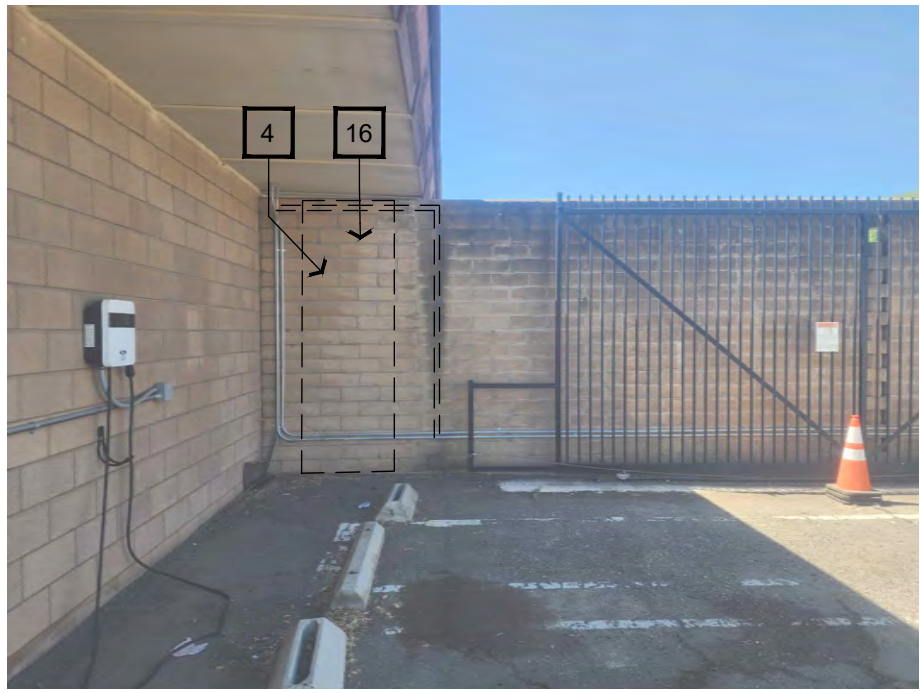
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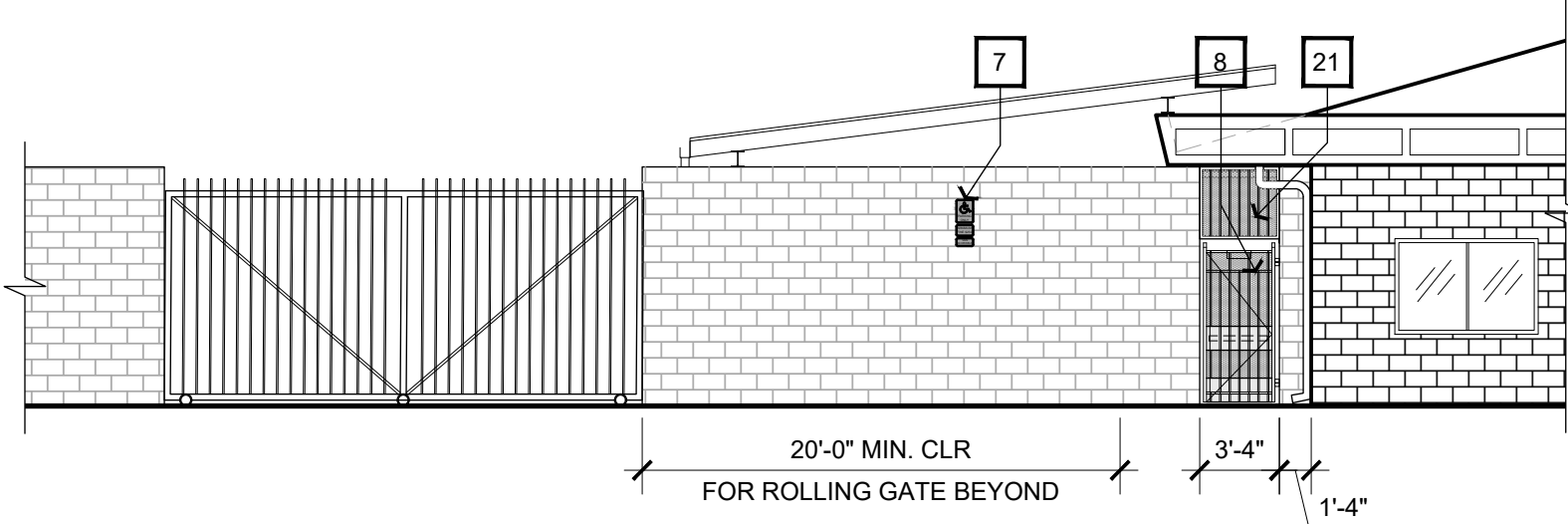
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JOB NO. 22232
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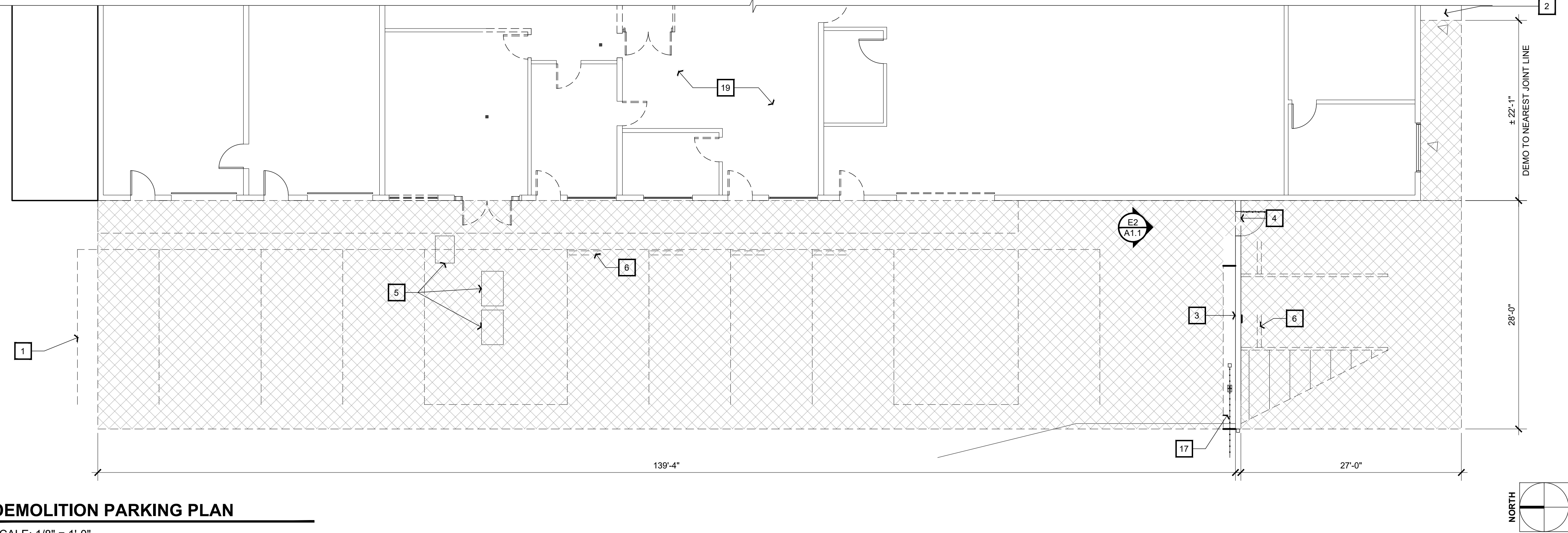
OF 15
A1.0
SITE PLAN
SHEETS



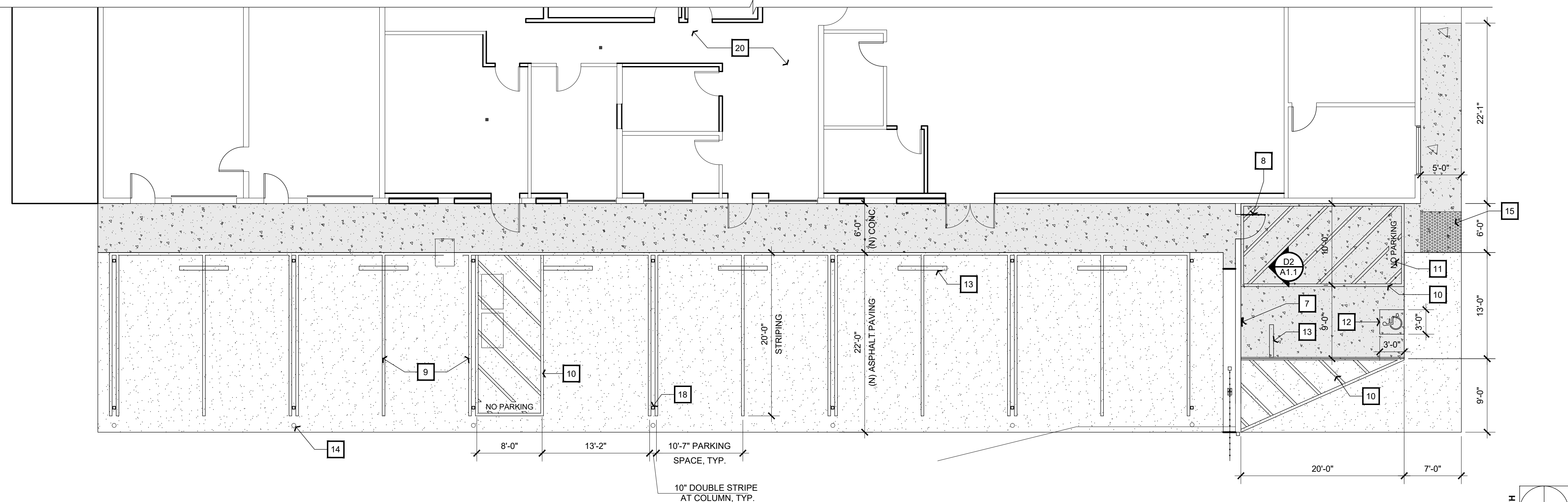
E2 REFERENCE PHOTO
N.T.S.



D2 SITE EXIT GATE ELEVATION
SCALE: 1/8" = 1'-0"



F4 DEMOLITION PARKING PLAN
SCALE: 1/8" = 1'-0"



F5 ENLARGED PARKING PLAN
SCALE: 1/8" = 1'-0"

SEE SEPARATE PERMIT FOR CANOPY NOTES AND DIMENSIONS

KEYNOTES:

1. BLACKOUT EXISTING STRIPING WHERE OTHERWISE NOT INCLUDED IN THE DEMO AREA OF WORK.
2. (E) SIDEWALK TO REMAIN.
3. (E) MASONRY SITE WALL TO REMAIN.
4. DEMO 3'-4" W. X 7'-0" H. OPENING IN BLOCK WALL, REINFORCE PER STRUCTURAL DRAWINGS.
5. (E) UTILITY ACCESS HATCHES TO REMAIN. WHEN DEMOING ADJACENT ASPHALT, KEEP THESE INTACT.
6. (E) CONCRETE WHEEL STOP TO BE REMOVED. TYP.
7. MOUNT ACCESSIBLE PARKING SIGN ON WALL. SEE DETAIL F3/A0.1.
8. (N) GATE WITH PANIC HARDWARE, CLOSER, AND PERFORATED METAL PANEL. EXTERIOR SIDE TO INCLUDE FOB KEY ACCESS.
9. (N) 4" WHITE STRIPPING, DOUBLE STRIPE AT CANOPY COLUMN LOCATIONS.
10. (N) 4" WIDE DIAGONAL WHITE TRAFFIC PAINT STRIPPING AT 3'-0" O.C. WITH 4" WIDE BLUE TRAFFIC PAINT BOARDER.
11. (N) 1'-0" HIGH "NO PARKING" LETTERING IN WHITE TRAFFIC PAINT.
12. (N) ISA WHITE TRAFFIC PAINT PARKING STALL SIGN ON BLUE TRAFFIC PAINT BACKGROUND. SEE DETAIL F4/A0.1.
13. INSTALL (N) 6" H. X 6'-0" L. CONCRETE WHEEL STOPS, TYP.
14. INSTALL (N) 4" DIA. X 3'-6" H. CONCRETE FILLED STEEL BOLLARDS 1'-0" IN FRONT OF CARPORT COLUMNS, TYP. OF 7.
15. INSTALL (N) DETECTABLE WARNING DOMES. SEE DETAIL E3/A0.1.
16. CONDUIT TO BE RELOCATED ABOVE PROPOSED OPENING.
17. MAINTAIN (E) ASPHALT UNDER ROLLING GATE, GATE TRACK, AND MOTOR.
18. (N) COLUMN AT CANOPY. UNDER SEPARATE PERMIT.
19. FOR ENTIRE DEMOLITION FLOOR PLAN, SEE SHEET A2.0 FOR MORE INFORMATION.
20. FOR ENTIRE (N) FLOOR PLAN, SEE SHEET A2.1 FOR MORE INFORMATION.0
21. FIXED MTL. PANEL SET IN MTL. FRAME WITH FENCE BARS AND PERFORATED MTL. SCREENING.

SITE LEGEND

- DEMO (E) ASPHALT AND CONCRETE
- (N) CONCRETE
SLOPE SHALL NOT EXCEED 2% GRADE IN ANY DIRECTION.
- (N) ASPHALT PAVING
SLOPE SHALL TRANSITION EVENLY BETWEEN FACE OF (N) CONCRETE AND EXISTING ADJACENT PAVING.



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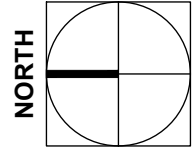
B

A

2

F3 DEMO REFLECTED CEILING PLAN

SCALE: 3/16" = 1'-0"



SHEET NOTES:

- A. DIMENSIONS ARE TO CENTERLINE OF NEW WALLS AND FACE OF WALL (F.O.W.) OF EXISTING WALLS, U.N.O.
- B. SEE A4.0 FOR INTERIOR FINISH SCHEDULE.
- C. TYPE "X" G.W.B. IS NOT REQUIRED AT NON-RATED WALLS, HOWEVER IT IS THE ARCHITECT'S STANDARD FOR ALL G.W.B.
- D. ALL STUD SIZE INFORMATION FROM STEEL STUD MANUFACTURES ASSOCIATION HANDBOOK 2015 EDITION.
- E. SEE DETAIL E5/A0.1 FOR MOUNTING INFORMATION OF TOILET FIXTURES AND ACCESSORIES.
- F. SEE STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL PLANS FOR MORE INFORMATION

KEYNOTES

1. DEMO (E) EXTERIOR DOORS AND WINDOWS WHERE INDICATED
2. DEMO (E) WALLS WHERE INDICATED
- 2A. DEMO PARTIAL WALL TO ALIGN WITH FACE OF ADJACENT WALL.
3. DEMO ALL INTERIOR DOORS (EXCEPT WHERE NOTED W/ KEYNOTE 6).
4. DEMO ALL (E) LOCKERS ,FURNITURE, BREAKROOM CASEWORK, AND RESTROOM FIXTURES AND ACCESSORIES.
5. REMOVE (E) CEILING MOUNTED SPACE HEATER.
6. (E) INTERIOR DOOR AND HARDWARE TO REMAIN.
7. (E) ICE MACHINE AND WATER SOFTENER TO BE RELOCATED.
8. DEMO ALL (E) T-BAR CEILING
9. (E) FLOOR DRAIN TO REMAIN (RESTROOM ONLY)
10. REMOVE FLOOR DRAIN INLET AND CAP EXISTING PIPING. INFILL TO BE PREPPED FOR EXPOXY SURFACE.



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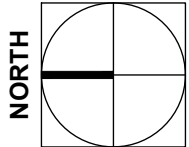
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A2.0
DEMO PLANS
OF 15 SHEETS

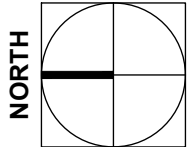


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F5 DEMO FLOOR PLAN

SCALE: 1/4" = 1'-0"



2

DOOR HARDWARE GROUPS

HARDWARE GROUP 1: (EXTERIOR)
3 NRP BUTT HINGES
1 ENTRANCE LOCKSET - ND53PD
1 SURFACE MOUNTED CLOSER
1 THRESHOLD
1 DOOR SHOE
1 WEATHERSTRIPPING KIT

HARDWARE GROUP 2: (MULTI-TOILET)
3 NRP BUTT HINGES
1 SURFACE MOUNTED CLOSER
1 4"x16" PUSH PLATE
1 4"x16" PULL PLATE AND HANDLE- 10"
1 10" HIGH KICK PLATE
1 4" HIGH MOP PLATE
1 SOUND SEAL KIT
1 DOOR STOP

HARDWARE GROUP 3: (PASSAGE)
3 NRP BUTT HINGES
1 PASSAGE LATCHSET - ND10S
1 SOUND SEAL KIT
1 DOOR STOP

HARDWARE GROUP 4: (OVERSIZED EXTERIOR)
4 NRP BUTT HINGES
1 ENTRANCE LOCKSET - ND53PD
1 SURFACE MOUNTED CLOSER
1 THRESHOLD
1 DOOR SHOE
1 WEATHERSTRIPPING KIT

HARDWARE GROUP 5: (PRIVATE OFFICE)
3 NRP BUTT HINGES
1 OFFICE LOCKSET - ND50PD
1 SOUND SEAL KIT
1 WALL STOP

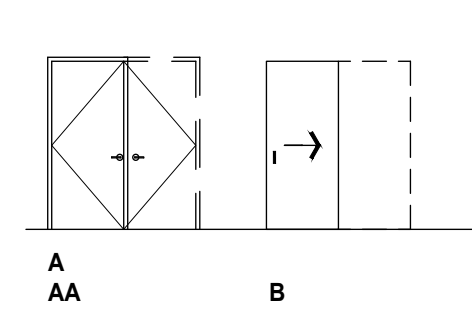
HARDWARE GROUP 6: (CHANGING ROOM)
3 NRP BUTT HINGES
1 PRIVACY LOCKSET - ND40S
1 SOUND SEAL KIT
1 WALL STOP

HARDWARE GROUP 7: (SLIDING POCKET)
1 ADA COMPLIANT POCKET DOOR HARDWARE KIT BY JOHNSON HARDWARE OR EQ.
2 RUBBER BUMPERS TO PREVENT DOOR FROM FULLY RECEDING INTO WALL.
1 OVERHEAD TRACK & BALLBEARING ROLLERS. MAX. MECHANISM OPENING FORCE OF 5 LBS.
2 6" LONG DOOR PULL HANDLE. HANDLES TO BE EXPOSED & ACCESSIBLE FROM BOTH SIDES.

E

DOOR SCHEDULE NOTES

(1) TYPES



(2) FIRE RATING ASSEMBLY:
N = NO RATING

(3) THICKNESS:
A = 1-3/4"

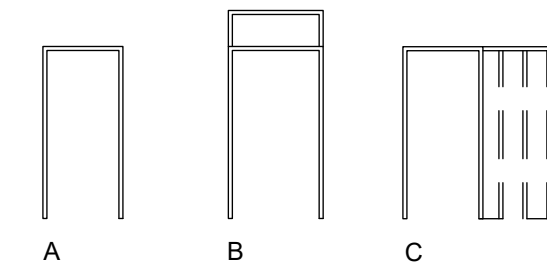
(4) CONSTRUCTION
A = 14 GA HEAVY DUTY INSULATED METAL
B = SOLID CORE, PAINT GRADE

(5) FACING & FINISH
A = PRIMED AND PAINTED METAL COLOR: MED. GREY
B = PRIMED AND PAINTED WOOD COLOR: MED. GREY

(6) GLAZING
N = NONE

(7) HARDWARE GROUPS:
SEE IN ADJACENT COLUMN

(8) FRAME TYPES:



(9) FRAME MATERIAL:
A = TIMELY PREFINISHED STEEL DRYWALL FRAME.
B = WELDED STEEL FRAME, SHOP PRIMED, FIELD PAINTED

(10) TRANSOM LITE:
N = NONE
A = 3'-6" X 2'-0" TRANSOM LITE ABOVE DOOR

(11) REMARKS:
A = PROVIDE ELECTRONIC KEY FOBs TO EXTERIOR DOORS ENTERING OPEN OFFICE, LOCKERS, IT ROOM, AND ADJACENT SUITE'S SIGN SHOP.
B = OPENING FOR SLIDING DOORS TO BE 3'-6"

D

DOOR SCHEDULE

DOOR NUMBER	SIZE	TYPE	FIRE RATING	THICKNESS	CONSTRUCTION	FACING & FINISH	GLAZING	HARDWARE GROUP	FRAME TYPE	FRAME MATERIAL	TRANSOM LITE	REMARKS
100A	3'-0" x 7'-0"	A	N	A	A	A	N	1	A	B	N	A
100B	3'-0" x 7'-0"	A	N	A	A	A	N	3	A	B	N	-
100C	3'-0" x 7'-0"	A	N	A	A	A	N	3	A	B	N	-
101	3'-0" x 7'-0"	A	N	A	B	B	N	5	A	A	N	-
102	3'-0" x 7'-0"	A	N	A	B	B	N	5	A	A	N	-
103	3'-0" x 7'-0"	A	N	A	B	B	N	5	A	A	N	-
104A	3'-6" x 7'-0"	A	N	A	A	A	N	4	B	B	A	A
104B	3'-0" x 7'-0"	A	N	A	B	B	N	3	A	A	N	-
106	3'-0" x 7'-0"	A	N	A	B	B	N	2	A	A	N	-
107	3'-6" x 7'-0"	B	N	A	B	B	N	7	C	A	N	-
108	3'-0" x 7'-0"	A	N	A	B	B	N	6	A	A	N	-
109	PR 3'-0" x 7'-0"	AA	N	A	A	A	N	1	A	B	N	-
110	(E) 3'-0" x 7'-0"	A	-	-	-	-	-	-	-	-	-	A
111	3'-0" x 7'-0"	A	N	A	B	B	N	3	A	A	N	-

DOOR GENERAL NOTES

- ALL DOORS TO COMPLY WITH CBC REQUIREMENTS FOR OPENING AND CLOSING FORCE AS SPECIFIED IN DETAIL E4/A0.1.
- ALL DOORS ARE EQUIPPED WITH SINGLE EFFORT NON-GRASPING HARDWARE.
- ALL EXIT DOORS TO BE OPENABLE WITHOUT USE OF A KEY OR SPECIAL KNOWLEDGE.
- ALL LOCK/LEVER AND CLOSERS SHALL COMPLY WITH ACCESSIBILITY REQUIREMENTS.
- SEE DETAIL F4/A0.1 FOR ACCESSIBILITY REQUIREMENTS.
- DOOR SEPARATING CONDITIONED FROM UNCONDITIONED SPACE SHALL HAVE WEATHERSTRIPPING TO EFFECTIVELY LIMIT AIR INFILTRATION. ADHESIVE FOAM TAPE OR FELT WEATHER STRIPPING IS NOT ACCEPTABLE.
- ALL THE DOOR STOPS SHALL BE FLOOR MOUNT, DOMES, BRUSHED STAINLESS STEEL.
- (E) INDICATES THE DOOR IS EXISTING AND (F) INDICATES THE DOOR MIGHT BE ADDED IN FUTURE.

C

SHEET NOTES:

- DIMENSIONS ARE TO CENTERLINE OF NEW WALLS AND FACE OF WALL (F.O.W.) OF EXISTING WALLS, U.N.O.
- SEE A4.0 FOR INTERIOR FINISH SCHEDULE.
- TYPE "X" 5/8" G.W.B. IS NOT REQUIRED AT NON-RATED WALLS, HOWEVER IT IS THE ARCHITECT'S STANDARD FOR ALL G.W.B.
- ALL STUD SIZE INFORMATION FROM STEEL STUD MANUFACTURES ASSOCIATION HANDBOOK 2015 EDITION.
- SEE DETAIL E5/A0.1 FOR MOUNTING INFORMATION OF TOILET FIXTURES AND ACCESSORIES.
- SEE STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL PLANS FOR MORE INFORMATION

KEYNOTES

- (E) GLAZING TO REMAIN.
- (E) FLOOR DRAIN TO REMAIN.
- INSTALL 18" W. X 36" D. X 90" H. STEEL LOCKERS WITH FOOTLOCKER BY SENTINEL, TYPICAL OF (33), COLOR: GRAY. 3'-0" X 1'-6" IN MEN'S LOCKER ROOM & (3) IN CHANGING ROOM.
NOT LESS THAN 5% OF LOCKERS SHALL BE ACCESSIBLE. UNOBSTRUCTED FORWARD HIGH REACH MAX. SHALL BE 48". LOW REACH RANGE SHALL BE 15" MIN. PROVIDE SYMBOL OF ACCESSIBLE STICKER ON ACCESSIBLE LOCKER DOOR.
- (E) ICE MACHINE AND WATER SOFTENER TO BE RELOCATED INTO NEW JANITOR ROOM.
- O.F.O.I. FURNITURE.
- NEW 2'-0" X 2'-0" FLOOR MOP SINK.
- NEW WATER HEATER. TO BE SPEC'D BY PLUMBING.
- INSTALL CHAIR RAIL. SEE FINISH PLAN.
- INSTALL (N) FLOOR DRAIN OR FLOOR SINK. SEE PLUMBING PLAN.
- INSTALL TRANSFORMER AND ELECTRICAL PANEL. SEE ELECTRICAL SHEET E3.2 AND STRUCTURAL 12/S5.1 FOR MOUNTING DETAIL.
- INSTALL WALL MOUNTED TACTILE SIGNAGE ON THE LATCHSIDE OF THE DOOR AND DOOR MOUNTED PICTOGRAM SIGNAGE. SEE DETAIL C2/A0.1.
11A. INSTALL "ALL GENDER" SIGNAGE AT MAIN RESTROOM DOOR, EACH INDIVIDUAL TOILET ROOM, AND SHOWER ROOM.
11B. AT CHANGING ROOM INSTALL "WOMEN'S LOCKER ROOM" SIGNAGE
11C. AT LOCKER ROOM INSTALL "MEN'S LOCKER ROOM" SIGNAGE

B

WALL LEGEND:

- (E) INTERIOR FRAMED WALL TO REMAIN
- (E) HOLLOW CMU BLOCK WALL TO REMAIN
- TYPICAL PARTITION WALL:
CORE - 3 5/8" x 20 GA. METAL STUDS AT 2'-0" O.C. FRAME WALLS TO 6" ABOVE CEILING.
INT. FINISH - 1 LAYER OF 5/8" TYPE 'X' G.W.B. EACH SIDE FULL HEIGHT OF WALL. SEE DETAIL B3/A5.0.
- TYPICAL FULL HEIGHT PARTITION WALL:
CORE - 3 5/8" x 20 GA. METAL STUDS AT 2'-0" O.C. FRAME WALLS TO B.O. ROOF FRAMING.
INT. FINISH - 1 LAYER OF 5/8" TYPE 'X' G.W.B. EACH SIDE FULL HEIGHT OF WALL. SEE DETAIL B3/A5.0.
- PLUMBING WALL:
CORE - 6" x 20 GA. METAL STUDS AT 2'-0" O.C.
INT. FINISH - 5/8" TYPE 'X' G. WB. ON EACH SIDE FULL HEIGHT OF WALL. SEE DETAIL B5/A5.0.
- FURRING WALL:
CORE - 6" X 20 GA. METAL STUDS @ 2'-0" O.C. FRAME WALL FULL HEIGHT TO MATCH ADJACENT CMU BLOCK WALL.
INT. FINISH - 1 LAYER OF 5/8" TYPE 'X' G. WB. ON ROOM SIDE. FRAME WALL OF WALL. SEE DETAIL C3/A5.0.
- EXTERIOR 8" INFILL WALL:
CORE - 6" X 20 GA. METAL STUDS @ 2'-0" O.C.
EXT. FINISH - 3-COAT EXTERIOR PLASTER ASSEMBLY (1/2" OVERALL THICKNESS), O/ METAL LATH, O/ (2) LAYERS SYNTHETIC WATERPROOF MEMBRANE, O/ BITUTHENE, O/ 1/2" PLYWD SHEATHING, O/ METAL STUDS. SEE DETAILS C4/A5.0 & C5/A5.0
INT. FINISH - NOT REQUIRED (INT. FURRING WALL WILL BE FINISHED)

Johnson
Comstock

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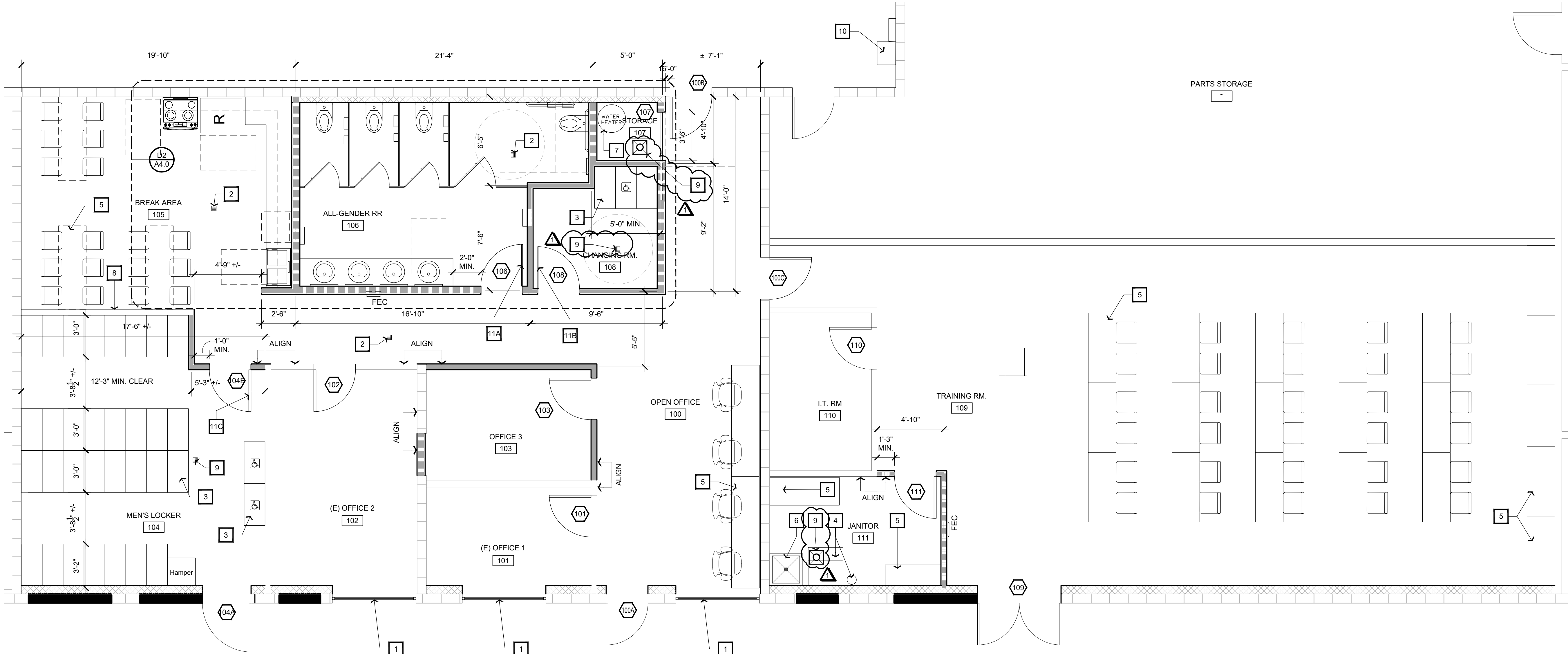
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DATE 06/27/2025
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SHEET

A2.1
FLOOR PLAN
SHEETS
OF 15

F5 FLOOR PLAN
SCALE: 1/4" = 1'-0"



F
2
3
4
5

E

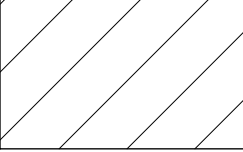
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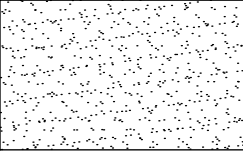
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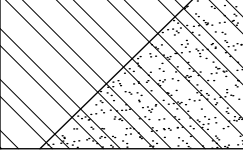
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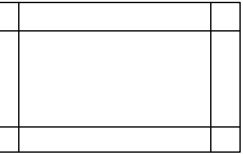
A

CEILING & INSULATION LEGEND

- 

EXISTING CEILING TO REMAIN
NO MODIFICATIONS. EXISTING CEILING TO REMAIN.
- 

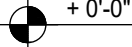
G.W.B. CEILING:
(1) LAYER 5/8" TYPE 'X' G. W.B. O/ 3-5/8" 20 GA METAL JOISTS
SPACED 2'-0" O.C. INCLUDE 6" UNFACED BATT INSULATION.
- 

G.W.B. CEILING:
(1) LAYER 5/8" TYPE 'X' G. W.B. O/ WOOD ROOF JOISTS SPACED
2'-0" O.C. INCLUDE 6" UNFACED BATT INSULATION.
- 

2' x 4' SUSPENDED T-BAR GRID WITH LAY-IN CEILING PANELS:
T-BAR GRID AND LAY-IN CEILING WITH A ACOUSTICAL CEILING
TILES BY ARMSTRONG OR EQUAL.
- 

3 1/2" FORMALDEHYDE FREE MINERAL FIBER INSULATION IN WALL
FOR SOUND ATTENUATION, FRICTION FIT BETWEEN STUDS FULL
HEIGHT OF WALL.
- 

R-21 UNFACED THERMAL INSULATION BATTS. FRICTION FIT BETWEEN
STUDS U.N.O.
- 

INDICATES CORNER BRACING. SEE DETAIL D3/A5.0
- 

+ 9'-0"

INDICATES CEILING HEIGHT

NOTE:

CEILING FIXTURES SUPPORT (i.e. LIGHT & SIM. FIXTURES) SHALL BE SUPPORTED PER C.B.C. (CURRENT EDITION) SECTION 1613.1 AND ASCE 7-16 STANDARDS. FIXTURES WEIGHING LESS THAN 56 POUNDS SHALL HAVE, IN ADDITION TO THE STANDARDS MENTIONED ABOVE, TWO No. 12 GA. WIRE HANGERS CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE. THESE WIRES MAY BE SLACK. FIXTURES WEIGHING 56 POUNDS OR MORE SHALL BE SUPPORTED WITH APPROVED HANGERS DIRECTLY FROM THE STRUCTURE ABOVE.

GENERAL NOTES

- A. REFER TO ELECTRICAL DRAWINGS FOR NEW LIGHT FIXTURES AND POWER SUPPLY AT CEILINGS.
- B. SEE MECHANICAL DRAWINGS FOR NEW HVAC SUPPLY AND RETURN LOCATIONS.

KEYNOTES

1. ATTIC ACCESS HATCH.
2. CORNER BRACING



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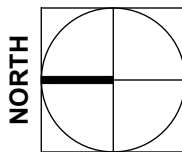
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DATE 06/27/2025
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JOB NO. 22232
SHEET

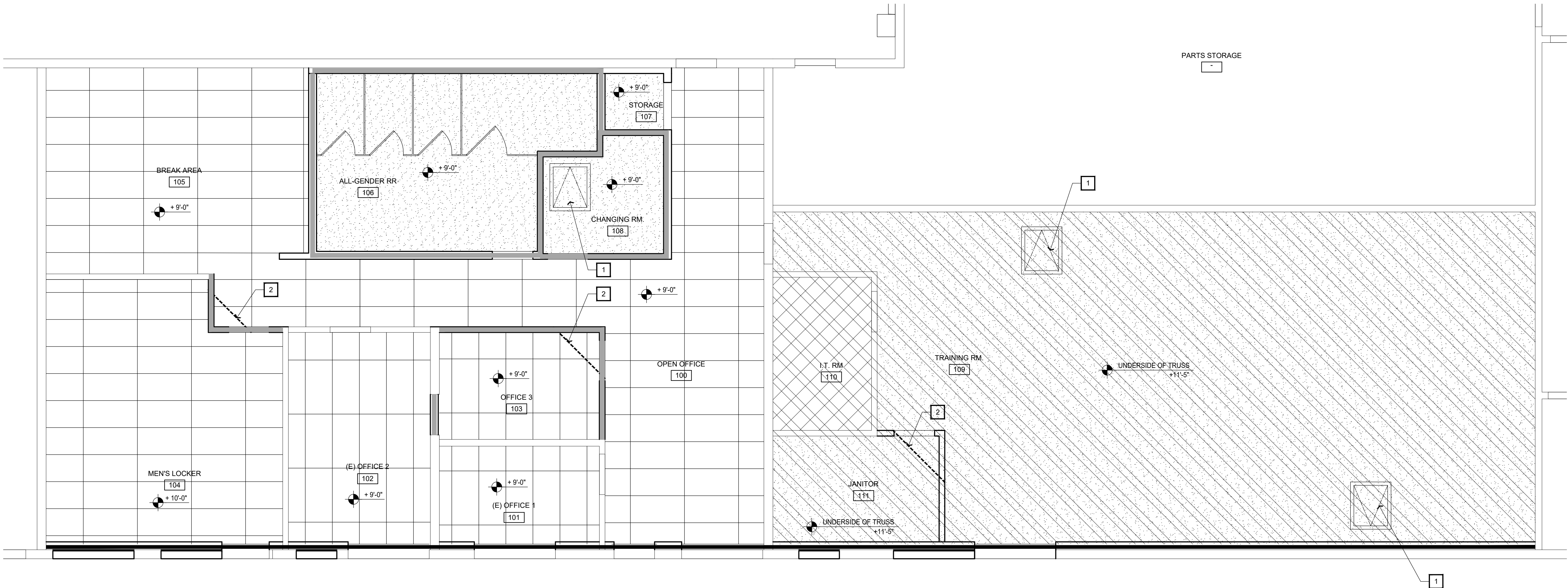
REFLECTED CEILING
OF 15 SHEETS

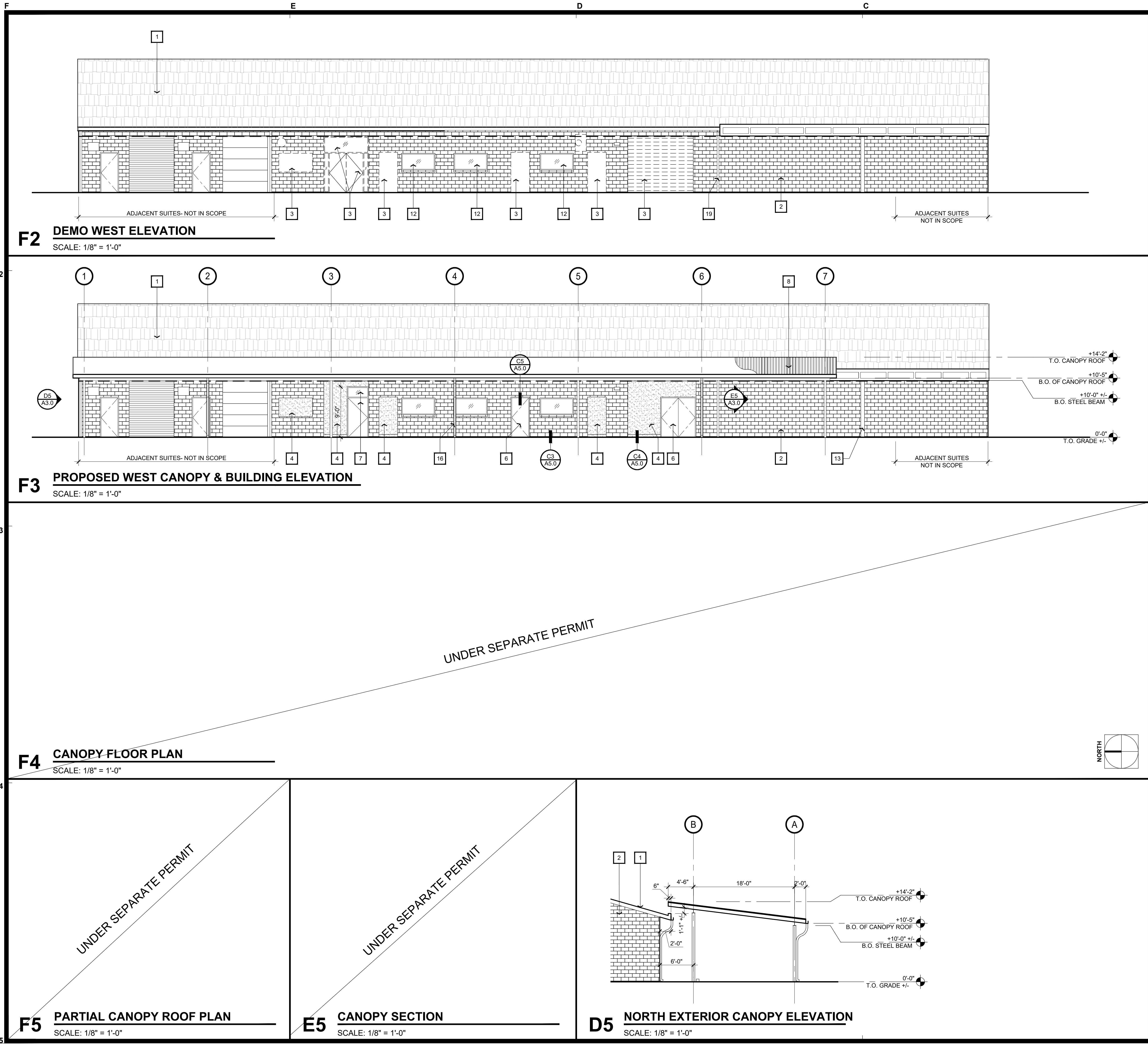
A2.2



F5 REFLECTED CEILING PLAN

SCALE: 1/4" = 1'-0"





- KEY NOTES:**
- (E) ASPHALTIC SHINGLE ROOF.
 - (E) MASONRY FACADE.
 - REMOVE (E) DOOR OR WINDOW
 - FRAME OPENING WITH (N) 6" METAL STUDS WITH EXTERIOR 3-COAT PLASTER WALL ASSEMBLY FINISH. EXTERIOR PAINT COLOR TO NEAREST MATCH EXISTING WALL.
 - NOT USED
 - INSULATED 3'-0" H.M. EXTERIOR MAN DOOR. SEE DOOR SCHEDULE ON SHEET A2.1.
 - INSULATED 3'-6" H.M. EXTERIOR MAN DOOR WITH (N) GLAZING ABOVE. SEE DOOR SCHEDULE ON SHEET A2.1.
 - (N) COVERED CARPORT UNDER SEPARATE PERMIT SUBMITTAL.
 - NOT USED
 - NOT USED
 - EDGE OF (E) BUILDING ROOF.
 - (E) GLAZING TO REMAIN.
 - (E) MASONRY SITE WALL.
 - NOT USED
 - NOT USED
 - NOT USED
 - NOT USED
 - NOT USED



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SHEET		
A3.0		
EXTERIOR ELEV. AND CANOPY		
OF 15 SHEETS		

FINISH SCHEDULE:

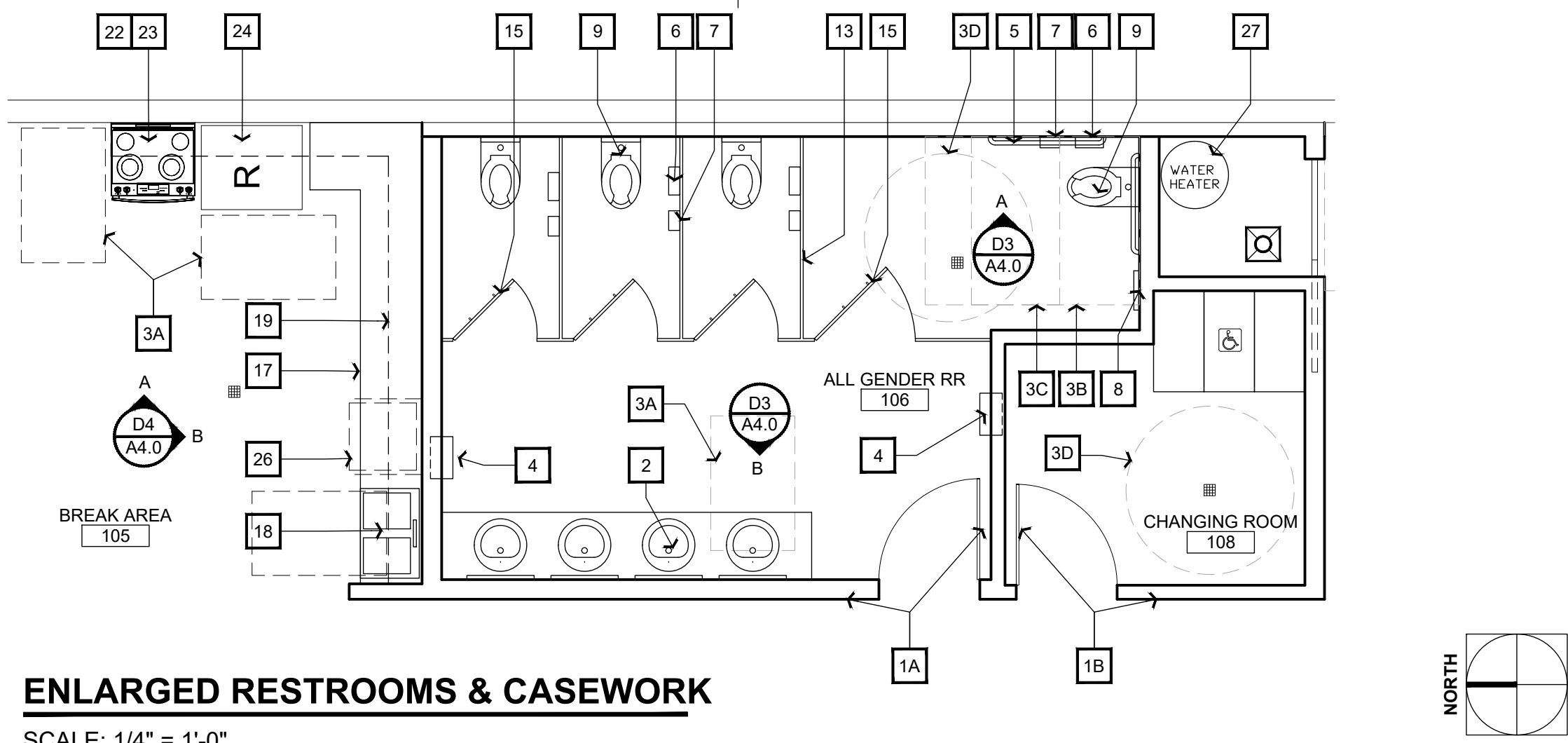
	ROOM NAME	FLOOR*	BASE	WALLS*				CASEWORK		CEILING	WINDOW COVERINGS
				N	E	S	W	TOP	FRONT		
100	ROADS OPEN OFFICE	F1	B1	P1	P1	P2	P1	-	-	C1	W1
101	(E) OFFICE 1	F1	B1	P1	P1	P1	P1	-	-	C1	W1
102	(E) OFFICE 2	F1	B1	P1	P1	P1	P1	-	-	C1	W1
103	OFFICE 3	F1	B1	P1	P1	P1	P1	-	-	C1	-
104	MEN'S LOCKER	F1	B1	P1	P1	P1	P1	-	-	C1	-
105	BREAK AREA	F1	B1	P2	P1	P1	P1\WC2	CW1	CW2	C1	-
106	ALL GENDER RESTROOM	F1	B1	P3\WC1	P3\WC1	P3\WC1	P3\WC1	CW1	-	C2	-
107	STORAGE	F1	B1	P1	P1	P1	P1	-	-	C2	-
108	CHANGING ROOM	F1	B1	P1	P1	P1	P1	-	-	C2	-
109	TRAINING/CLASSROOM	F1	B1	P1	P1	P2	P1	-	-	C2	-
110	I.T.	F1	B1	P1	P1	P1	P1	-	-	(E)	-
111	JANITOR	F1	B1	P3\WC1	P3	P3	P3\WC1	-	-	C2	-
ALL OTHER ROOMS NOT IN SCOPE OF WORK											

FINISH LEGEND:

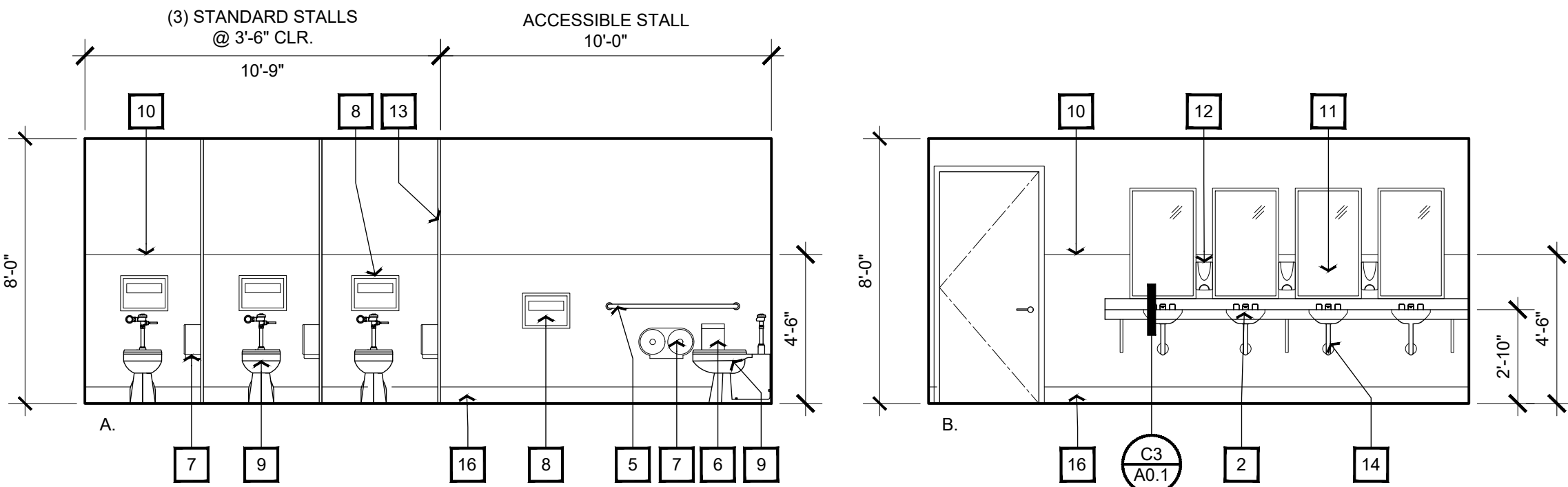
FLOORS: F1 EPOXY COATED FLOORING MANUFACTURER: EPOXY ARMOR SYSTEMS STYLE: CARRERA COLOR: GRANITE	WALL PAINTS: P1 FIELD PAINT-SATIN FINISH MANUFACTURER: BEHR COLOR: CHOCOLATE FROTH 720C-2 OPTIONAL: DUNN EDWARDS - LINEN WHITE DEC749
BASE: B1 6" SELF COVED EPOXY BASE	P2 ACCENT PAINT-SATIN FINISH MANUFACTURER: BENJAMIN MOORE COLOR: SMOKE EMBERS AC-28 OPTIONAL: DUNN EDWARDS - GRAY PEARL DEC795
WALL COVERING: WC1 4'-0" FRP INSTALLED ABOVE THE BASE MANUFACTURER: GENERIC COLOR: WHITE	P3 RESTROOM WALL PAINT- SEMI GLOSS MANUFACTURER: BENJAMIN MOORE COLOR: SNOW WHITE 2122-70 OPTIONAL: DUNN EDWARDS - CATALINA DEW372
WC2 6" TRIM, CHAIR RAIL. MOUNTING HEIGHT TO BE VERIFIED PRIOR TO INSTALLATION	CASEWORK: CW1 COUNTERTOP- PLASTIC LAMINATE MANUFACTURER: WILSONART COLOR: DESIGNER WHITE D354-60
WINDOW COVERINGS: W1 2" WIDE HORIZONTAL BLINDS MANUFACTURER: HUNTER DOUGLAS MODEL: EVERWOOD	CW2 CABINET FACE- PLASTIC LAMINATE MANUFACTURER: WILSONART COLOR: CEMENT D503-60
	CEILING: C1 ACOUSTICAL CEILING 2' X 4' MANUFACTURER: TBD STYLE: TBD
	C2 G. WB. CEILING
	OPEN OPEN TO CEILING ABOVE

FINISH NOTES:

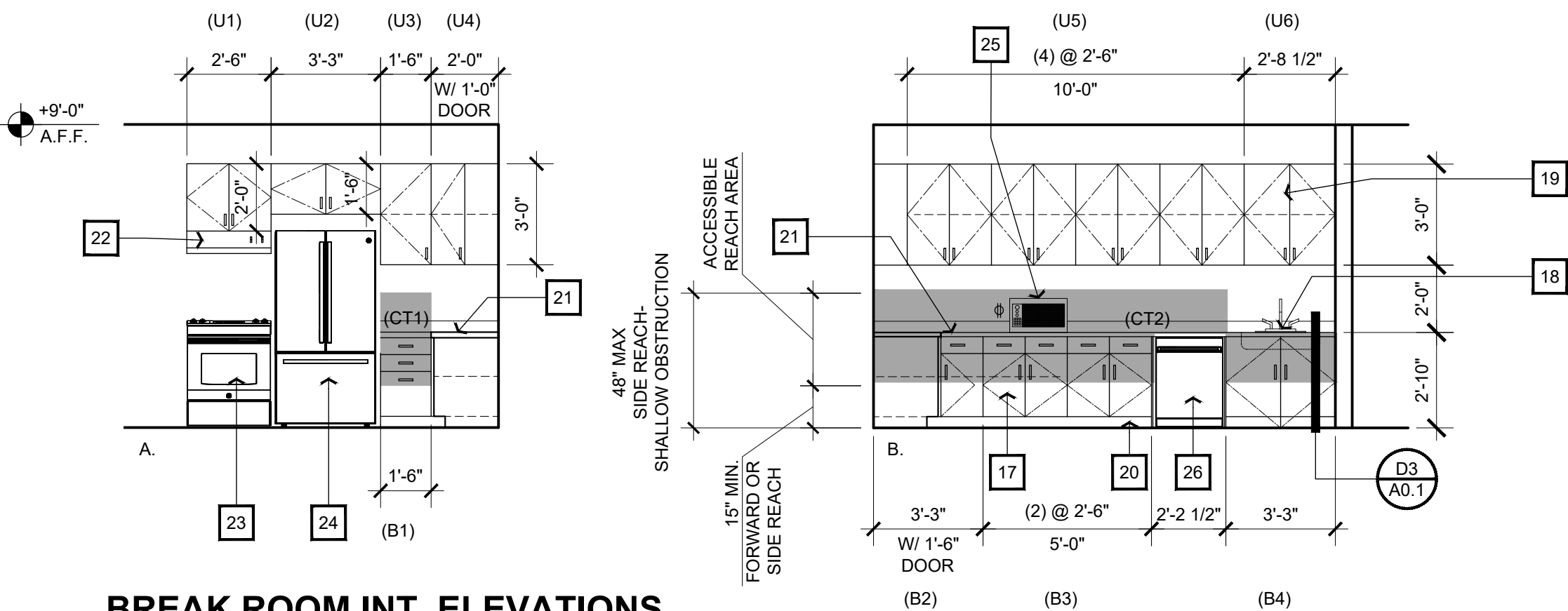
- A. PAINT WALLS (1) COAT PRIMER, (2) COATS FINISH, U.N.O.
- B. USE SEMI-GLOSS PAINT AT ALL WET AREAS.
- C. VERIFY ALL COLORS WITH THE OWNER.
- D. ADVISE ARCHITECT OF ANY COMPATIBILITY PRIOR TO INSTALL.
- E. PRIMER TO BE TINTED TO MATCH FINAL COAT.
- F. PREPARE AND INSTALL ALL PRODUCTS STRICTLY PER MANUFACTURERS SPECIFICATIONS.
- G. INTERIOR OF CASEWORK TO BE WHITE MELANINE.



D2 ENLARGED RESTROOMS & CASEWORK
SCALE: 1/4" = 1'-0"



D3 RESTROOM INT. ELEVATIONS
SCALE: 1/4" = 1'-0"



D4 BREAK ROOM INT. ELEVATIONS
SCALE: 1/4" = 1'-0"

MILLWORK 50% STORAGE CALCS.								
	CABINET TAG	ACCESSIBLE SHELF/ DRAWER COUNT	INACCESSIBLE SHELF/ DRAWER COUNT	WIDTH (IN)	DEPTH (IN)	AREA PER SHELF/ DRAWER (IN SQ)	ACCESSIBLE STORAGE AREA (IN SQ)	INACCESSIBLE STORAGE AREA (IN SQ)
COUNTERTOPS	CT1	1	0	18	24	432	432	0
	CT2	1	0	125.5	24	3012	3012	0
UPPER CABINETS	U1	0	1	30	12	360	0	360
	U2	0	1	39	12	468	0	468
	U3	0	2	18	12	216	0	432
	U4	0	2	24	12	288	0	576
	U5	0	2	120	12	1440	0	2880
	U5	0	2	32.5	12	390	0	780
	B1	3	0	18	24	432	1296	0
BASE CABINETS	B2	2	1	39	24	936	1872	936
	B3	2	1	60	24	1440	2880	1440
	B4	0	1	39	24	936	0	936
	TOTALS:					9492		8808
ACCESSIBILITY STORAGE PERCENTAGE:							9,492 / 18,300 = 52%	18300

SHEET NOTES:

- A. VERIFY ALL FINISHES, EQUIPMENT AND HARDWARE WITH OWNER.
- B. PROVIDE HORIZONTAL BACKING FOR WALLS WITH WALL MOUNTED CASEWORK OR EQUIPMENT.
- C. FOR ACCESSIBILITY NOTES AND DETAILS SEE SHEET A0.1.
- D. MILLWORK IS SHOWN FOR GENERAL REFERENCE ONLY. CABINET FABRICATOR IS RESPONSIBLE FOR COORDINATING CABINET DESIGN WITH LESSOR/ LESSEE AND FOR PROVIDING SHOP DRAWINGS FOR FINAL DESIGN APPROVAL TO LESSOR/ LESSEE.
- E. ALL MILLWORK SHALL BE CONSTRUCTED PER THE WOODWORK INSTITUTE'S "CUSTOM GRADE" SPECIFICATIONS. CONTRACTOR TO PROVIDE SHOP DRAWINGS TO ARCHITECT FOR APPROVAL PRIOR TO FABRICATION OF CASEWORK.
- F. ALL EXPOSED AND SEMI-EXPOSED SURFACES SHALL BE PLASTIC LAMINATE, SOLID SURFACE, OR PHENOLIC RESIN PER FINISH SCHEDULE. ALL CONCEALED SURFACES SHALL BE MELAMINE OR APPROVED EQUAL LOW-PRESSURE LAMINATE.
- G. INTERIOR SHELVES SHALL BE ADJUSTABLE WITH PEGGED SUPPORTS.
- H. ALL PULLS ON DRAWERS AND DOORS TO BE 4" WIRE PULLS, U.N.O.

KEY NOTES:

1. INSTALL WALL MOUNTED TACTILE SIGNAGE ON THE LATCHSIDE OF THE DOOR AND DOOR MOUNTED PICTOGRAM SIGNAGE. SEE DETAIL C2/A0.1.
- 1A. INSTALL "ALL GENDER" SIGNAGE AT MAIN RESTROOM DOOR, EACH INDIVIDUAL TOILET ROOM, AND SHOWER ROOM.
- 1B. AT CHANGING ROOM INSTALL "WOMEN'S LOCKER ROOM" SIGNAGE
- 1C. AT LOCKER ROOM INSTALL "MEN'S LOCKER ROOM" SIGNAGE
2. INSTALL ACCESSIBLE 2'-0" DEEP P LAM COUNTER WITH 4" BACKSPLASH AND RETURN WITH ACCESSIBLE SINK.
3. ACCESSIBLE CLEAR SPACE AND TURN AROUNDS:
- 3A. 2'-6" X 4'-0" ACCESSIBLE CLEAR SPACE.
- 3B. 5'-0" X 4'-11" ACCESSIBLE CLEAR SPACE AT WATER CLOSET.
- 3C. 4'-0" X 5'-0" ACCESSIBLE CLEAR SPACE IN FRONT OF WATER CLOSET.
- 3D. 5'-0" DIA ACCESSIBLE CLEAR MANEUVERING SPACE AND TURN AROUND
4. INSTALL ACCESSIBLE SEMI-RECESSED PAPER TOWEL DISPENSER W/ WASTE RECEPTACLE
5. INSTALL STAINLESS STEEL GRAB BARS: 4'-0" LONG X 1 1/2" Ø GRAB BAR ON THE SIDE WALL AND 3'-0" LONG X 1 1/2" Ø GRAB BAR ON THE BACK WALL OF THE WATER CLOSET.
MODEL: T.B.D.
6. INSTALL SURFACE MOUNTED SANITARY NAPKIN DISPOSAL, TYP.
MODEL: HOSPECO #T9FB2685329 PER YOLO COUNTY GSD STANDARDS. TYPICAL ALL STALLS.
7. INSTALL SURFACE MOUNTED DUAL-ROLL TOILET PAPER ROLL DISPENSER, TYP.
MODEL: TORK SC-56TR PER YOLO COUNTY GSD STANDARDS.
8. INSTALL SURFACE MOUNTED TOILET SEAT COVER DISPENSER, TYP.
MODEL: T.B.D.
9. INSTALL ACCESSIBLE WATER CLOSET WITH FLUSH ON WIDE SIDE OF THE STALL, TYP.
10. INSTALL 4'-0" WALL FRP TO +4'-6" OVER 6" HIGH EPOXY WALL BASE. UNIFORM THROUGHOUT ALL RESTROOM WALLS.
11. (4) 3'-0" x 2'-0" STAINLESS STEEL FRAMED MIRROR WITH BOTTOM OF REFLECTIVE SURFACE AT +3'-4" MAX. A.F.F. CENTERED ABOVE EA SINK TYP.
12. WALL MOUNTED SOAP DISPENSER. TYPICAL OF 3, ADJACENT EACH RESTROOM SINK
MODEL: BUCKEYE SYMMETRY STEALTH PRESTIGE #B063-51 PER YOLO COUNTY GSD STANDARDS.
13. FULL HEIGHT TOILET PARTITION, SCRANTON PRODUCTS ARIA PARTITIONS OR SIMILAR. SEE FINISH NOTES FOR ADDITIONAL INFORMATION. TYPICAL THROUGHOUT RESTROOM
14. WRAP ALL PIPES UNDER COUNTER.
15. CLOTHING HOOKS: INSTALL 2 AT EACH PARTITION DOOR IN TOILET ROOMS. INSTALL (1) AT ACCESSIBLE HEIGHT, AND (1) AT 5'-0" A.F.F.
MODEL: T.B.D.
16. 6" HIGH CONTINUOUS EPOXY BASE.
17. 2'-0" DEEP MAX P LAM FACED BASE CABINETS WITH ADJUSTABLE SHELVED AND DRAWERS WITH ACCESSIBLE PULLS.
18. ACCESSIBLE SINK WITH CABINET OPEN TO BELOW TO HAVE INTEGRAL KICK. WRAP EXPOSED PLUMBING PIPING, AND A 3/4 HP BACKSET GARBAGE DISPOSAL.
19. 1'-0" DEEP P.LAM. FACED UPPER CABINETS WITH ADJUSTABLE SHELVES.
20. 4" HIGH TOE SPACE WITH TOPSET BASE.
21. PLAM BREAK ROOM COUNTERTOP.
22. HOOD WITH ADA COMPLIANT SWITCH.
23. RANGE.
24. REFRIGERATOR.
25. MICROWAVE
26. DISHWASHER
27. WATER HEATER



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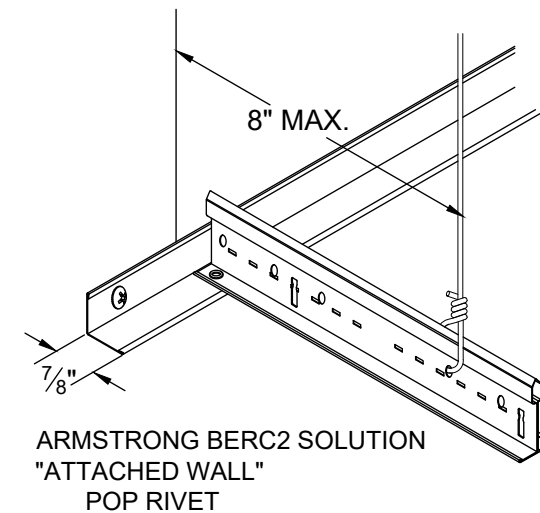
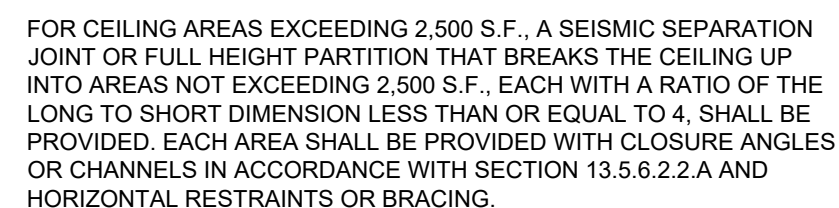
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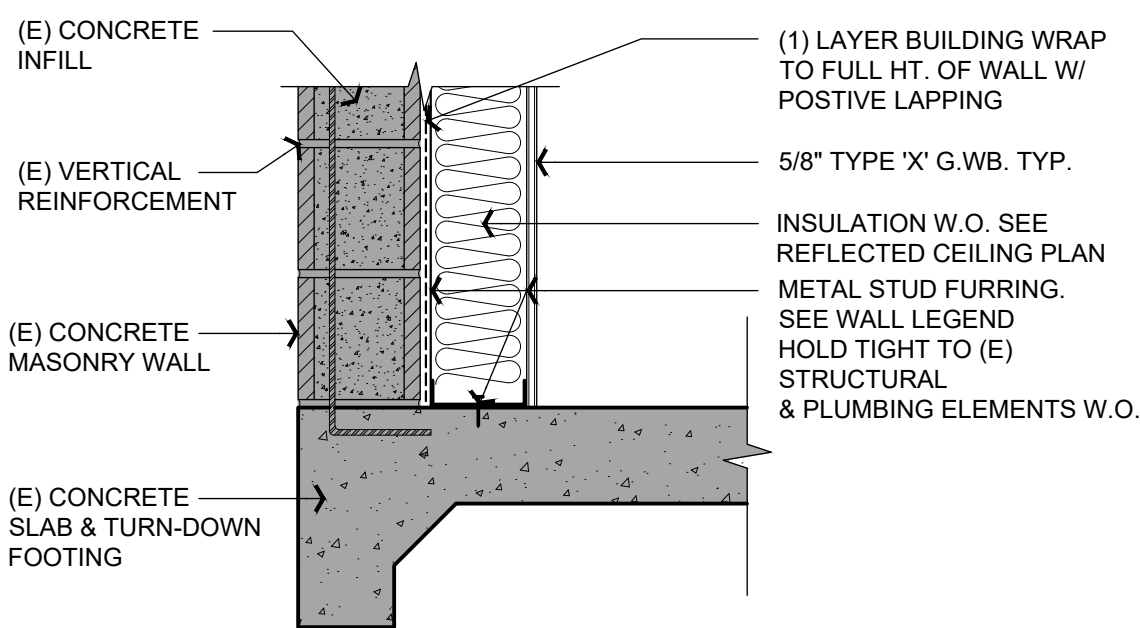
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SHEET
INT. ELEV. & ENLRG. R.R. PLAN
OF 15 SHEETS

A4.0



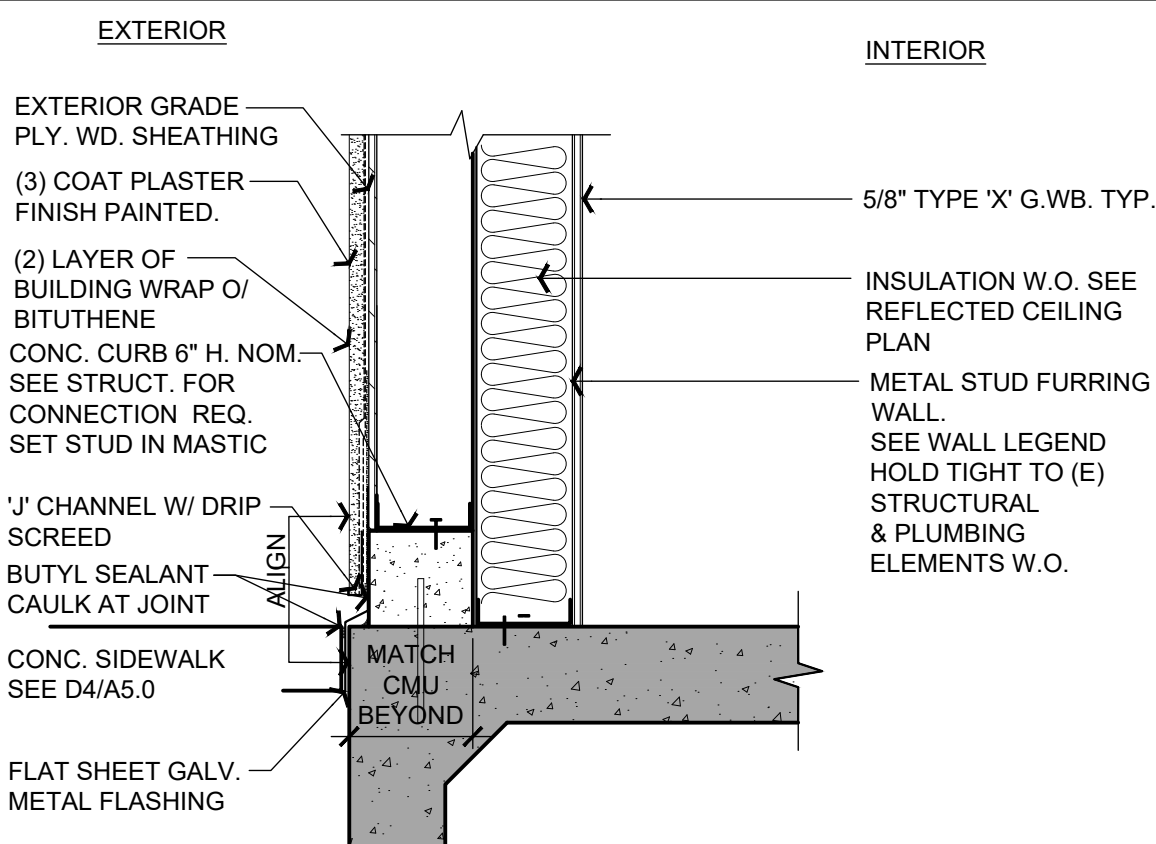
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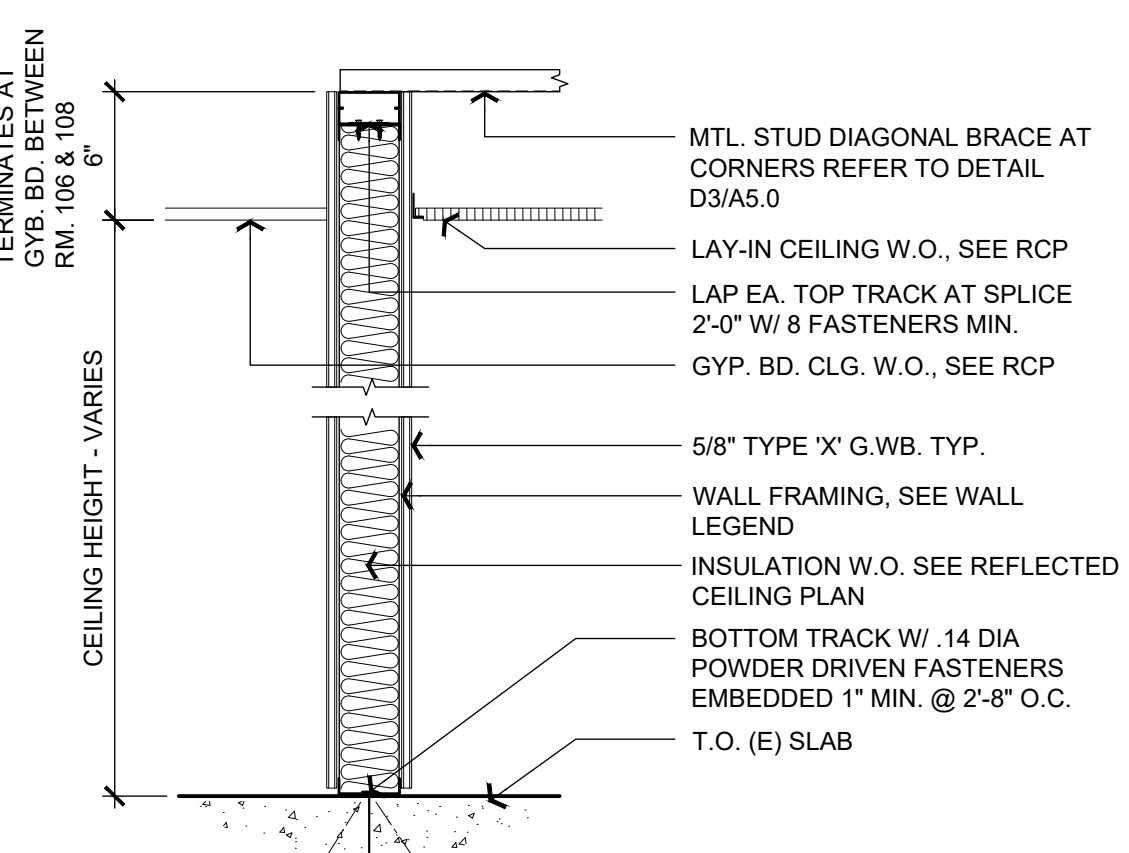
SCALE: 1" = 1'-0"

D00000 3:



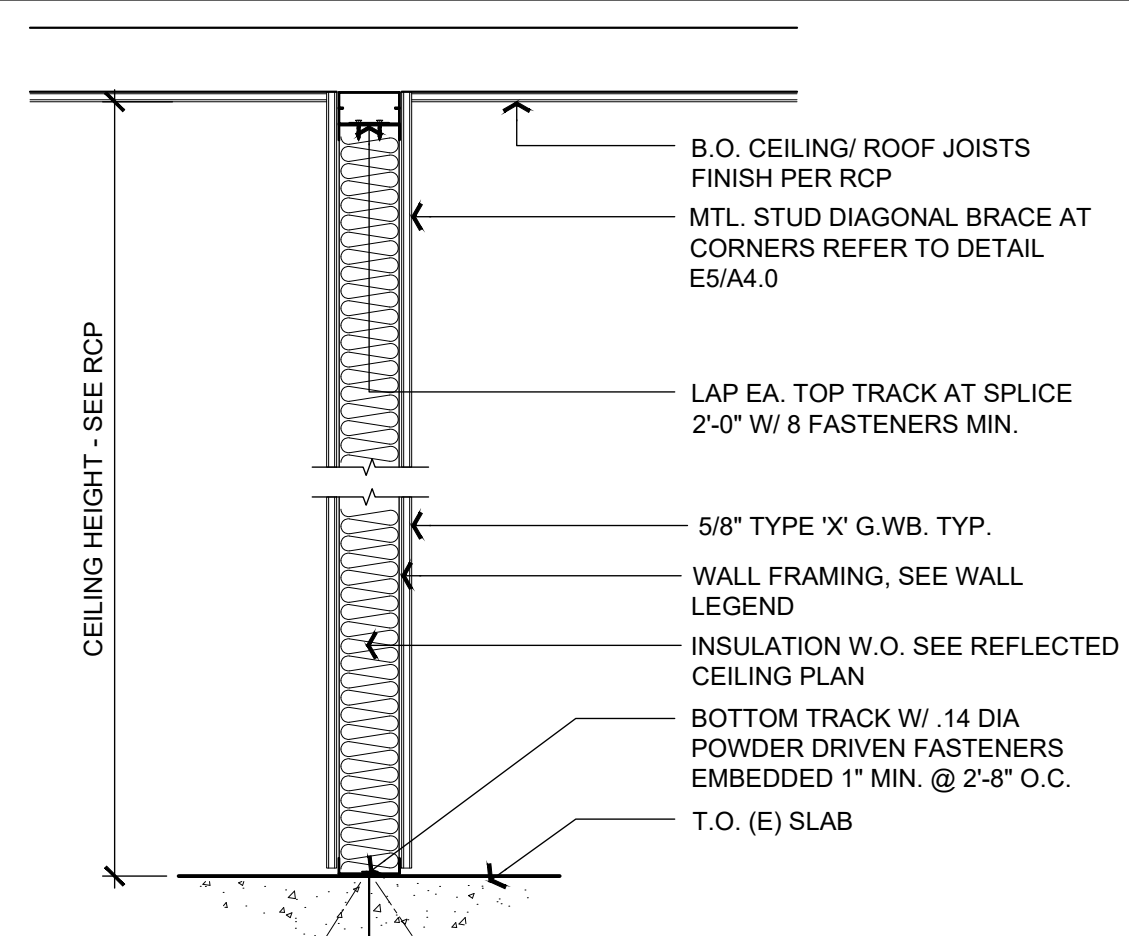
SCALE: 1" = 1'-0"

D00000 31.



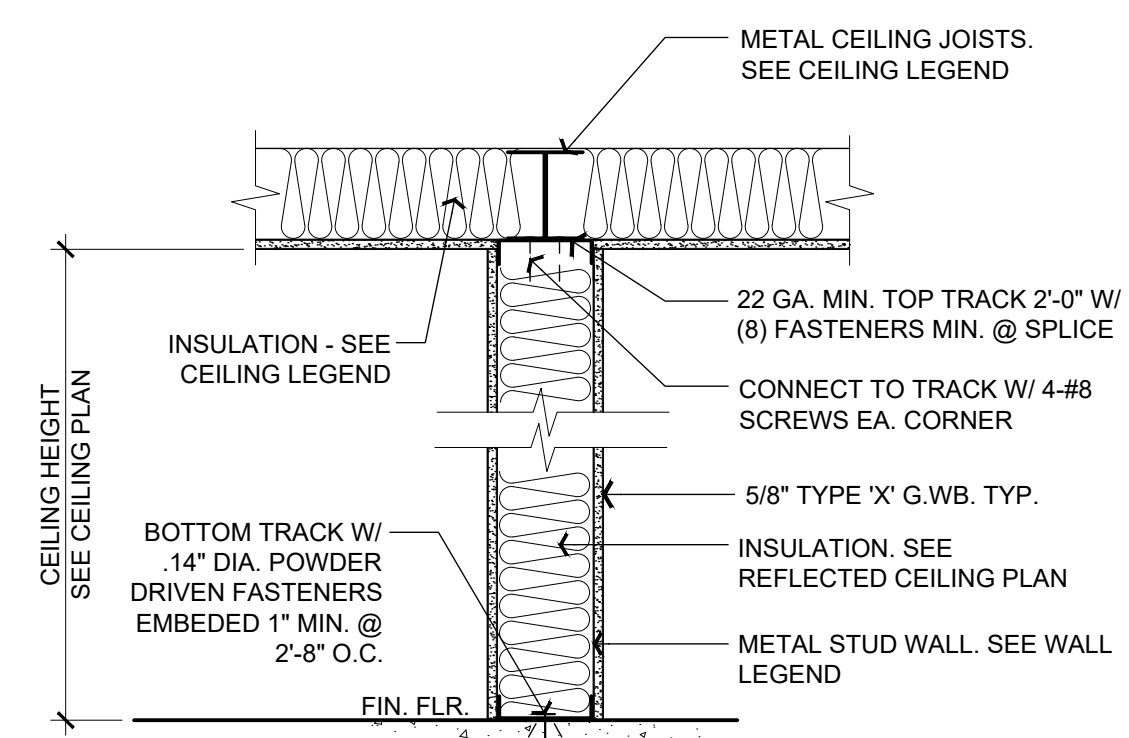
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D00000 30-4



SCALE: 1" = 1'-0"

D00000 304



SCALE: 1" = 1'-0"

ARCHITECTS INC

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JOB TITLE:

CONSTRUCTION DOCUMENTS FOR:
**YOLO COUNTY - ROADS
BUILDING RENOVATIONS**
284 W. BEAMER STREET
WOODLAND, CA
YOLO COUNTY JOB NO. WA24-07-5292
CLIENT: YOLO COUNTY GENERAL SERVICES DEPARTMENT
ADDRESS: 400 W. MAIN STREET, SUITE D, WOODLAND, CA 95692

REVISIONS:

[illegible]

DATE 06/27/202

DRAWN DH/JDC

JOB NO. 2223

SHEET

A5.0
PARTITION DETAILS
OF 15 SHEETS

General

- Interpretation of drawings & specifications
 - For the purpose of this project, specifications have been prepared for this project and are arranged in several sections, but such separation shall not be considered as the limits of the work required by any separate trade. The terms and conditions of such limitations are wholly between the contractor and his subcontractors.
 - In general, the working details will indicate dimensions, positions and kind of construction, and the specifications will indicate quantities and methods. Any work indicated on the working details mentioned but not in the specifications, or vice versa, shall be furnished as though fully set forth in both. Work not particularly detailed, marked, or specified, shall be the same as similar parts that are detailed, marked, or specified. If conflicts occur between drawings and specifications, the most expensive materials or methods will prevail.
 - Should an error appear in the working details or specifications or in work done by others affecting this work, the contractor shall notify the architect at once and in writing. If the contractor proceeds with the work so affected without having given such written notice and without receiving the necessary approval, decision or instruction in writing from the owner, then he shall have no valid claim against the owner, for the cost of so proceeding and shall make good any resulting damage or defect. No verbal approval, decision, or instruction shall be valid or be the basis for any claim against the owner, its officers, employees or agents. The foregoing includes typical errors in the specifications and errors in the working details where the interpretation is doubtful or where the error is sufficiently apparent as to place a reasonably prudent contractor on notice that, should he elect to proceed, he is doing so at his own risk.
- Construction shall conform to all applicable codes and regulations.
- Shop Drawing Note:
 - Shop drawings shall be submitted in the form of one reproducible and two copies of each sheet.
 - The purpose of shop drawing submittals by the Contractor is to demonstrate to the structural Engineer that he understands the design concept by indicating which materials he intends to furnish and install, and by detailing the fabrication and installation methods he intends to use.
 - Prior to fabrication, shop drawings shall be submitted for review to the Structural Engineer. Shop drawing submittals shall include, but are not necessarily limited to structural steel, riveted and welded connections, beams, and pre-fabricated wood roof framing items such as I-joists and trusses.
 - Prior to submission the Contractor shall review all submittals for conformance with the contract documents and shall stamp submittals as being "Reviewed for Conformance".
 - Shop drawing submittals processed by the Structural Engineer are not change orders.
 - Any detail on the shop drawing that deviates from the contract documents shall be clearly marked with the note "This is a Change".
 - Shop drawings or calculations submitted for review that require resubmittal for re-review shall be billed hourly for such time to the General Contractor. Re-review will not proceed without written approval from the General Contractor for additional engineering review services.
- Safety Note:
 - It is the Contractor's responsibility to comply with the pertinent sections, as they apply to this project, of the "Construction Safety Orders" issued by the State of California, latest edition, and all OSHA requirements.
 - The owner and the Structural Engineer do not accept any responsibility for the Contractor's failure to comply with these requirements.
 - The Contractor shall be responsible for adequate design and construction of all forms and shoring required.
- The Contractor shall notify the Architect and Structural Engineer where a conflict or a discrepancy exists between the structural drawings and any other portion of the contract documents or existing field conditions. Such notification shall be given in due time so as not to affect the construction schedule. In case of a conflict between structural drawings and specifications, the more restrictive condition shall take precedence unless written approval has been given for the least restrictive. Contractor shall verify all dimensions with architectural and structural drawings prior to commencing any work.
- Where no specific detail is shown, the construction shall be identical or similar to that indicated for like cases of construction on this project. Should there be any question, contact the Architect and Structural Engineer prior to proceeding.
- When construction attaches to an existing building, a complete set of drawings of the existing building shall be kept on the job site. Contractor to obtain these drawings from the owner.
- Contractor shall provide an allowance equal to 2% of the bid for structural steel, misc. iron, light gauge framing, and reinforcing steel to be used at the discretion of the structural engineer. Unused amount to revert to the owner upon completion of the job.
- Any substitutions for structural members, hardware, or details shall be reviewed by the Architect and Structural Engineer. Such review will be billed on a time and materials basis to the General Contractor with no guarantee that the substitution will be allowed.
- Do not scale drawings. Contact the Architect or Structural Engineer for any dimensions not shown.
- These drawings are not complete until reviewed and accepted by the local building official and signed by the owner and the Structural Engineer.
- All drawings and written material appearing herein constitutes the original and unpublished work of the Structural Engineer and the same may not be duplicated, used or altered without written consent of the Structural Engineer.
- The structure shown on these drawings is structurally sound only in its completed form. The stability of this structure depends on the diaphragms and the bracing members shown. The Contractor is to provide for the design and construction of shoring for all earth, forms, concrete, steel, wood, and masonry to resist gravity, earth, wind, seismic, and construction loads. Shoring shall remain in place until all diaphragms and lateral resisting elements are in place in their entirety. Construction materials shall be spread out if placed on framed floors or roofs. Load shall not exceed the design live load per square foot.

Design Criteria

- Code: 2022 California Building Code (CBC)
- Design Live Loads:

Area	Live Load	Remarks
Roof		
A) Flat to < 4:12	LR = 20 psf	Reducible per code
B) 4:12 to ≤ 12:12	LR = 12-20 psf	Reducible per code
- Snow Design Parameters:
 - Wind Design Parameters:

Basic Design Wind Speed (3-sec gust)	V = 43 mph
Nominal Design Wind speed (3-sec gust)	V _{nom} = 72 mph
Risk Category	II
Exposure Category	C
Internal Pressure Coefficient	±0.18
Analysis Method	Directional Procedure
 - Earthquake Design Parameters:

5.1. Seismic Importance Factor	I _s = 1.0
5.2. Risk Category	II
5.3. Soil Site Classification	D'
5.4. Seismic Design Category	D'
5.5. Mapped Spectral Response Accel	
A) Short period	S _s = 1.101g
B) 1-sec period	S ₁ = 0.372g
 - Design Spectral Response Accel

A) Short Period	S _{ps} = 0.881g
B) 1-sec period	S _{pl} = 0.570g
 - Seismic Force Resisting System

A) Steel Special Cantilever Columns	
5.8 Seismic Base Shear	V = 0 kips
5.9 Seismic Response Coefficient	C _s = 0.353g
5.10 Response Modification Factor	R = 2½
5.11 Analysis Procedure	Equivalent Lateral Force

Demolition

- Safety Notes:
 - It is the Contractor's responsibility to comply with the pertinent sections, as they apply to this project, of the "Construction Safety Orders" issued by the State of California, latest edition, and all OSHA requirements.
 - The Structural Engineer and Owner do not accept any responsibility for the Contractor's failure to comply with these requirements.
- Shore or brace trusses, beams, columns, and walls as required to maintain the stable integrity of the existing structure prior to demolition. It is the Contractor's sole responsibility to design and provide competent shoring and bracing for all loads imposed during and after demolition through completion of new construction.
- All dimensions given to and of the existing structure are approximate. Verify by field measurements the dimensions of the existing structure. Where actual conditions deviate from the details shown on the drawings, notify the Structural Engineer for instructions prior to proceeding with work.
- Demolition and removal of existing construction shall be made in such a manner as to avoid or minimize damage to adjacent construction.
- Extent of demolition is to be as indicated on plans, sections and details. Demolition is to include removal and disposal construction.

Foundations

- Foundation construction shall be done in accordance with the 2022 CBC & all local ordinances.
- All building pad preparation and foundation work shall be done in accordance with the requirements of the 2022 CBC.
- The Inspection Agency shall observe all footing excavations prior to placement of reinforcing steel and concrete.
- Foundation depths indicated on plans are below undisturbed/compacted, non-expansive soil, unexpected soil conditions shall be brought to the Architect's attention immediately.
- When structural observation is required, structural engineer shall observe footing reinforcing steel prior to concrete placement. Provide 48 hours notice to structural engineer prior to concrete placement.
- The contractor shall be solely responsible for all excavation procedures including, but no limited to, lagging, shoring and protection of adjacent property, structures, streets, and utilities in accordance with the local building department.
- Foundation type: conventional spread footings
- Spread footing design values:

Allowable Bearing Pressure	1500 psf
Basic Load Combinations	2000 psf
Alt ASD w/ wind or seismic	
- Lateral Resistance

Passive Pressure	100 psf/ft below natural grade (up to 15')
Coefficient of Friction	N/A
- Minimum Footing Dimensions

Depth = 12"	
Width = 12"	

Concrete Masonry

- 28-day compressive strength of concrete masonry (f'm) shall be f'm = 2000psi for all uses. Full masonry stresses are used in design.
- Concrete block units shall conform to ASTM C-90. Units shall be lightweight with a maximum unit weight of 105 pcf.
- Mortar shall be Type S.
- Grout shall comply with ASTM C476. All cells to fully-grouted unless specified otherwise on plan.
- Compliance with the requirements for the specified compressive strength of masonry, f'm shall be in accordance with section 51.4B of the TMS402/602-16. For unit strength method see table below for required 28-day compressive strength of the concrete block units, grout, and mortar.

	specified f'm	conc block units (psi)	grout (psi)	mortar (psi)
	2000	2000	2000 min	1800

Unit strength method shall not be used for specified compressive strengths in excess of 2500 psi.
- Reinforcing steel shall conform to ASTM A615-grade 60 for #4 and larger, grade 42 for #3 and smaller.
- All reinforcement shall be continuous. Stagger splices where possible. Lap bars 48 diameters minimum, unless noted otherwise.
- Vertical reinforcing shall be held in position at top and bottom and at intervals not to exceed 200 bar diameters.
- Each vertical bar in walls shall lap 48 diameters with a dowel of the same size extending into the foundation. Carry each dowel to within 3" of the bottom of the foundation and terminate with 90° hook. Dowels shall be straight and plumb.
- Place all horizontal bars in bond beam units. When 2 bars are used, stagger laps a minimum of 5'-0".
- Provide 2-#5 bars (full height of wall at jamb and extending a minimum of 2'-6" past edges of openings at head and sill) each side of all openings and each end of all walls, unless noted otherwise on drawings.
- Before block is placed on concrete, thoroughly clean concrete and remove all laitance and loose material. Roughen concrete surface to ¼" amplitude.
- Concrete block masonry shall be built to preserve the unobstructed vertical continuity of the cells. All head and bed joints shall be solidly filled with mortar to a distance 1" from the face of the unit not less than the thickness of the face shell. Bond shall be provided by lapping successive courses or by equivalent mechanical anchorage.
- Vertical cells shall have vertical alignment sufficient to maintain a clear unobstructed continuous vertical cell measuring not less than 2"x3".
- Low Lift (lift height up to 4'-0")

All cells shall be filled solidly with grout. Grout shall be placed in a continuous pour in lifts not exceeding 4'-0" where cleanouts are not provided. All grouting shall be done under the continuous observation of the owner's testing laboratory.
- High Lift (lift height greater than 4'-0" and up to 12'-8")

Cleanout openings shall be provided in the bottom course of wall to be filled at each lift or pour of grout where such lift or pour of grout is in excess of 4'-0" in height. Maximum lift or pour height shall not exceed 12'-8". Cleanouts shall be provided at each cell. However, if the course at the bottom of the pour is constructed entirely of inverted open-end bond beam units, cleanout openings need only be provided at reinforced cells. Maximum cleanout spacing shall not exceed 32'cc. The cleanouts shall be sealed after inspection and before grouting.
- Thoroughly clean all cells and bond beams of mortar projections, mortar droppings, or other foreign material before grouting.
- All grout shall be thoroughly consolidated by mechanical vibration during placement in a manner to provide solidly grouted spaces.
- When grouting is stopped for one hour or longer, horizontal construction joints shall be formed by stopping the pour of grout 1½" below the top of the uppermost unit.
- All embedded items (bolts, etc.) shall be securely positioned prior to grouting. Provide a minimum of 1" grout around all bolts in masonry. See Typical Details Sheet.
- Pipes and electrical conduits shall not be embedded in concrete masonry except where specifically approved by the structural engineer.
- Use open end block for all stack bond construction.

Concrete

- Structural concrete shall attain 28-day compressive strength as required in note #30. Maximum slump shall not exceed 4".
- Concrete mix designs shall be reviewed by Owner's testing laboratory and submitted to the Structural Engineer for review. Selection of concrete mix proportions shall be per ACI 318-14 Section 26.4.3 & 26.4.4.
- Cementitious materials:

Cement shall conform to ASTM C-150 type I or II.

Fly ash shall conform to ASTM C-618. Max quantity of fly ash shall be as given in specs (15% max u.o.)
- Concrete aggregates shall conform to ASTM C-33 for normal weight concrete and ASTM C-330 for light weight concrete.
- Water shall be clean and free from injurious amounts of oils, acids, alkalis, salts, organic materials or other substances deleterious to concrete or reinforcement.
- Non-shrink grout or drypack shall consist of a premixed nonmetallic formula. See note #21 for additional information.
- Reinforcing steel shall conform to ASTM A615-grade 60 for #4 and larger, and ASTM A615-grade 40 for #3 and smaller, except reinforcing steel to be welded shall conform to ASTM A706. Contractor shall submit rebar mill certificates.
- Welded wire fabric shall conform to ASTM A-1064.
- All preheating and welding of reinforcing bars shall be done in accordance with AWS D1.4 latest edition and shall be continuously inspected by a qualified laboratory. Contractor shall furnish WPS for on-rebar welding to the laboratory.
- Reinforcing steel shall be fabricated according to "Manual of Standard Practice for Reinforced Concrete Construction".
- Dimensions shown for location of reinforcing are to the face of bars listed and denote clear coverage. Non-prestressed, cast-in-place concrete coverage shall be as follows, u.n.o.:

Cast against earth (except slabs)	3"
Cast in forms and exposed to earth or weather	2"
#6 & larger	2"
#5 & smaller	1½"
Beams & columns (ties)	1½"
Beams & columns (main reinf)	2"
Cast-in-place walls	
(exterior face & soil side)	see above
Cast-in-place walls	
(interior face - #11 & smaller)	see details
Tilt-up walls	¾"
Slabs (on forms)	¾"
Slabs (on ground)	2" clr from top u.n.o.
- Splices in continuous reinforcement shall be lapped u.n.o., lap bars per note 31 u.n.o.. Splices in adjacent bars shall be greater than 5'-0" apart. Splice continuous bars in soil-bearing grade beams, structural slabs on grade and mat foundations as follows u.n.o.: lap bars at centerline of support; bottom bars at mid-span. Splice continuous bars in elevated slabs and beams, etc., as follows u.n.o.: lap bars at mid-span; bottom bars at centerline of support. All bars size #14 and larger shall be continuous for full length shown or spliced with mechanical couplers as noted in details. Splices in WVF shall overlap 2 squares minimum.
- The minimum clear spacing between parallel bars in a layer shall not be less than the larger of bar diameter, 1", or 35% greater than the maximum aggregate size (nominal), whichever is greatest. This requirement also applies to the clear spacing between different layers of parallel bars and to the clear distance between a contact lap splice and adjacent splices or bars.
- All hooks shall be standard hooks unless otherwise shown or noted. At walls, provide hooks at ends of all reinforcing ends, corners and intersections, u.n.o. Provide construction/control joints @ all slabs on grade as noted on plan.
- Proposed joint plan shall be submitted to the Structural Engineer for approval prior to construction. Concrete shall be placed at construction joints shall be thoroughly cleaned and laitance removed. Where indicated on drawings, roughen concrete surface to ¼" amplitude. Concrete may be roughened by chipping the entire surface, sand blasting, or raking the surface to provide ¼" deep deformations. Remove all debris from forms before casting dry concrete.
- Reinforcing, dowels, bolts, anchors, sleeves, etc., to be embedded in concrete shall be securely positioned in forms before placing concrete.
- Pipes and electrical conduits shall not be embedded in structural concrete or concrete fill over metal decking except where specifically approved by the Structural Engineer.
- Anchor bolts (AB's) cast in concrete or masonry for wall sill and ledger/ applications shall be headed bolts with cut threads conforming to ASTM A307 or F1554 u.n.o. Refer to "Wood notes" for additional requirements for bolts in contact with pressure treated or fire retardant material. Refer to 'Structural steel' note for requirements for anchor rods cast in concrete for column base plate and steel embed applications.
- Walls shall be cast in horizontal layers of 2'-0" maximum depth.
- Concrete in walls, piers or columns shall set at least 2 hours before placing concrete in beams, spandrels, or slabs supported thereon.
- Consolidate concrete placed in forms by mechanical vibrating equipment supplemented by hand-spading, rodding or tamping. Use equipment and procedures for consolidation of concrete in accordance with the recommended practices of ACI 304 to suit the type of concrete and project conditions. Concrete shall not be dropped through reinforcing steel (as in walls) so as to cause segregation of aggregates. In such cases hoppers and chutes or trunks of variable lengths shall be used so that the free unconfined fall of concrete shall not exceed 6 feet.
- Drill through steel columns, beams and plates to pass continuous reinforcing, u.n.o.
- No wood spreaders allowed. No wood stakes allowed in areas to be concreted.
- Additional reinforcing in precast or tilt-up panels required for lifting stresses shall be supplied by Contractor.
- Provide #5x4'-0" diagonal reinforcing at mid-depth of slab at all re-entrant corners typical. This applies to slab on grade, concrete over metal deck, and elevated structural slab conditions.
- Place non-shrink grout under base plates, sill plates, etc as indicated on the drawings. Non-shrink grout shall be Masterflow 928 Grout by Master Builders Technologies or approved equal with a minimum f'c of 7500 psi @ 28 days.
- All saw cutting shall be done after initial set has occurred to avoid tearing or damage by the saw blade, but before initial shrinkage has occurred.
- Notify Structural Engineer a minimum of 48 hours before placing any concrete.
- Concrete strength: (max slump = 4')

Use	f'c @ 28 days	Max Aggregate Size	Density (lbs/ft ³)	Max W/C Ratio
Foundations	3500 psi	1½"	145	0.58
Slab-on-grade	3500 psi	1"	145	0.45
Exterior Flatwork	2500 psi	1"	145	0.60

- Development lengths shall be provided per the table below unless noted otherwise.

Straight Bars				With Standard Hooks			
Bar	f'c		Bar	f'c			
	3000 psi	4000 psi		3000 psi	4000 psi		
#3	15"	21"	#3	6"	6"		
#4	24"	25"	#4	11"	10"		
#5	36"	31"	#5	14"	12"		
#6	43"	37"	#6	17"	15"		

Structural Steel

- Fabrication, erection and materials shall conform to the specifications and standards of the AISC as contained in the "AISC Manual of Steel Construction", 15th edition and California Building Code latest edition.
- Structural steel shall conform to the following specifications, u.n.o.:

Shapes	
Wide Flanges (W, WT)	ASTM A992
Wide Flanges (S, M), Angles (L)	ASTM A572
Channels (C), Misc Channels (MC)	ASTM A36 (K8'), ASTM A992 (28')
Hollow Structural Steel (HSS)	ASTM A500, Gr. C (Fy = 50 ksi)
Steel Circular Pipes (P)	ASTM A53, Type E or S, Gr. B
Plates & Bars	
Column Base Plates	ASTM A36
Brace Gusset Plates	ASTM A36
Beam Shear Connection Plates	ASTM A36
Column Continuity Plates	ASTM A572, Gr. 50
Beam Stiffener Plates	ASTM A36
Deck Closure Plates	ASTM A36
Stainless Steel Plates & Bars	ASTM A276
Other	ASTM A36
Nuts, Bolts, Rods, & Washers	
General Bolts	ASTM F3125, Gr A325-N
Slip Critical Bolts (see note #4 below)	ASTM F3125, Gr A325-SC
High Strength Bolts	ASTM F3125, Gr A325-N or Gr A490
Machine Bolts (general use)	ASTM A307
Bent & Headed Anchor Bolts	ASTM F1554, Gr. 36, 55, or 105
Partial & Fully Threaded Anchor Rods	ASTM F1554, Gr. 36, 55, or 105
Fully Threaded Rod (general use)	ASTM A36 (A307 Gr. A for ¾"Ø)
Welded Shear Connectors	ASTM A108, Gr. 1015 thru 1020
Welded Threaded Studs	ASTM A108, Gr. 1015 thru 1020
Nuts for Bolts & Machine Bolts	ASTM A563
Hardened Washers	ASTM F436
Unhardened Washers	ASTM F844
Plain Washers	ASTM B18.22.1
Beveled Washers	ASTM B18.23.1

- Bolted connections shall consist of unfinished bolts per the table above unless noted otherwise. Anchor bolts cast in concrete or masonry shall be headed bolts with cut thread, full diameter body style conforming to ASTM F1554 u.n.o. Unless noted otherwise, anchor bolts/rods shall be grade 36 except that welded anchor bolts shall be grade 55 per 51 Supplementary requirements. All bolted connections or base plates shall have standard cut washers unless noted otherwise. Washers at base plates shall be placed at top and bottom of plate.
- "Slip-critical" bolted connections:
 - "Slip-critical" connections (A325-SC design values with special inspection) are required at all braced frame connections, at all connections along chord lines and drag lines (as noted on plans), and u.n.o., at all bolts in oversized or slotted holes.
 - The special inspector must be present during installation and tightening operation of "slip-critical" connections.
- All structural steel shall receive minimum of one shop coat of red primer with a minimum dry film thickness of 2.0 mils. Do not shop prime or paint areas to be field welded, fireproofed, galvanized, to receive slip-critical high strength bolts, or to be embedded in concrete. Prior to priming or painting, clean structural steel in accordance with Steel Structures Painting Council (SSPC) recommendations & as required by the primer & paint manufacturer. Provide additional painting as noted in the specifications.
- All structural steel shall be erected plumb and true to line. Temporary bracing shall be installed and shall be left in place until other means are provided to adequately brace the structure. Contractor responsible for reviewing all base plate and support conditions during erection and bracing as required. See AISC and OSHA requirements.
- Place non-shrink grout under all base plates before adding vertical load. See Concrete Notes for non-shrink grout requirements.
- Structural steel below grade shall have 3" minimum of concrete cover.
- Provide ½"Ø stitch bolts and ring fills, spaced at not more than 24" cc for all double angle members.
- At wood to steel parallel contact, attach with ½"Ø welded threaded studs at maximum 32"cc, & 6" from ends of wood member, typical unless noted otherwise.
- Holes for unfinished bolts shall be of the same nominal diameter of the bolt plus ¼". Use standard AISC gage and plate location for bolts except as noted otherwise. Holes for anchor bolts embedded in concrete shall be of the same nominal bolt diameter plus ¾" unless noted otherwise.
- Welding shall be done by the electric arc process in accordance with American Welding Society standards, using only certified welders. All groove welds shall have complete penetration unless noted otherwise. All exposed welds shall be ground smooth. All welding to be done using E7018 electrodes. In addition, welding of ASTM A572 grade 50 steel and ASTM A992 steel shall be done with electrodes capable of depositing weld metal with a maximum diffusible hydrogen content of 16ml/100g (H16). Weld lengths called for on plans are the net effective lengths required.
- Minimum fillet welds:

¾"Ø @ t < ½"
½"Ø @ t < ¾"
¾"Ø @ t > ¾"
- Welding Procedure Specifications (WPS) for shop and field pre-qualified weld joints and weld joints qualified by test shall be prepared for review prior to fabrication. All welding procedures that meet these requirements of AWS D1.1 Sec. 5.1 shall be considered as pre-qualified. Qualification testing is required when the depth of a partial penetration or complete penetration weld is 2" or greater.
- Structural steel & fasteners that are permanently exposed to weather shall be either primed and painted or hot dipped galvanized in accordance with ASTM A123 & A153. Repair galvanizing after weathering in accordance with ASTM A1193.
- When structural steel & connections will be exposed to view in the completed building, they shall be fabricated, erected & finished in compliance with Architecturally Exposed Structural Steel (AESS) guidelines & Section 10 of the AISC 303-22 "Code of Standard Practice for Steel Buildings and Bridges".

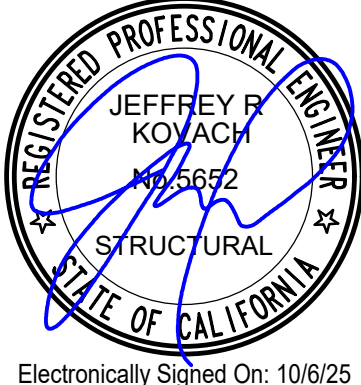
Metal Deck

- Provide metal decking manufactured by Versco, ASC Profiles, or approved equivalent of type and gauge as shown on plans. Decking shall have the following minimum effective section properties u.n.o.:

Location	Type	Gauge	I (in ⁴ /ft)	S _x (in ³ /ft)	S _y (in ³ /ft)
Roof	B-36	18	0.302	0.314	0.331
- Metal floor deck shall be composite type, conforming to ASTM A-653 (Fy=50 ksi) or equal and shall have a galvanized, G-60 grade coating. If contractor chooses to substitute decking by alternative manufacturer, contractor shall submit complete supporting data showing comparison of structural properties, gravity & shear values to that of the specified deck.
- Metal roof deck shall conform to ASTM A-653 (Fy=50 ksi) or equal and shall have a galvanized, G-60 grade coating.
- Prior to fabrication, the Contractor shall submit shop drawings and ICC/IFPMO evaluation report for product used, to the Architect and Structural Engineer for review. Shop drawings shall include metal floor deck gauge, size, and layout as well as closure conditions, welds to supports and side lap details.
- Connection and welding of decking to structural supports and at deck side seams shall be as specified in the structural drawings.



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Bevier Job No:24105



Electronically Signed On: 10/6/25

JOB TITLE:

CONSTRUCTION DOCUMENTS FOR:
**YOLO COUNTY-
ROADS BUILDING RENOVATIONS**
284 W. BEAMER STREET
WOODLAND, CA

CLIENT: YOLO COUNTY GENERAL SERVICES DEPARTMENT
ADDRESS: 120 W. MAIN STREET., SUITE D. WOODLAND CA

REVISIONS:

	DATE:	DESCRIPTION:
△		
△		
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DATE 00/00/25
DRAWN JW
JOB NO.
SHEET **S1.1**
GENERAL NOTES
OF 7 SHEETS

Wood

1. All sawn lumber shall be Douglas Fir-Larch as graded by the West Coast Lumber Inspection Bureau (WCLB) in accordance with Standard Grading Rules No. 17 typical unless noted otherwise. All members shall have a minimum grade of No. 1 except 2x4 and 2x6 wall studs, plates, and blocking may be No. 2.
2. All structural sheathing used for shearwalls and roof sheathing shall conform to the requirements for their type in DGC PSI, DGC PS2 or ANSI/APA PRP 210. Each panel or member shall be identified for grade, bond classification, and performance category by the trademarks of an approved testing and grading agency.
3. All foundation plates or sills on concrete slabs which are in direct contact with earth, and plates or sills on concrete or masonry foundations, shall be pressure treated.
4. All wood shall have a moisture content of not more than 19% when sheathing is applied.
5. 8" minimum clearance shall be maintained at all exterior walls between finish grade and bottom of wood walls.
6. Bearing and shearwalls shall have double top plates lapped at wall corners and intersections and plates shall be internalled with 3-16d at such locations. For plate splice details, see drawings.
7. Sill plate anchor bolts shall be installed with plate washers 3x3x0.224 between nut and plate.
8. Provide solid blocking between joists and rafters at all supports.
9. Provide blocking at all ceiling levels.
10. Joists under and parallel to partitions shall be doubled and nailed together.
11. Holes for bolts in wood shall be bored with a bit of the same nominal diameter as the bolt plus 1/8".
12. Holes for lag screws shall be bored as follows:
- a. The clearance hole for the shank shall have the same diameter as the shank, and the same depth of penetration as the length of unthreaded shank.
- b. The lead hole for the threaded portion shall have a diameter equal to 60% to 75% of the shank diameter and a length equal to at least the length of the threaded portion.
13. Lag screws and wood screws shall be screwed and not driven into place. Soap may be used to lubricate the screws.
14. All bolts and lag screws shall be provided with metal washers under heads and nuts which bear on wood. Applies also to inserted expanding fasteners, Red Head, etc.

Bolt Diameter	MI Washer	Steel Washer
3/8"φ	2 3/4"φx3/8"	3"x3"x1/4"
3/4"φ	3"φx1/2"	3"x3"x3/8"
7/8"φ	3 1/2"φx1/2"	3 1/2"x3 1/2"x3/8"
1"φ	4"φx1/2"	3 3/4"x3 3/4"x3/8"

15. All bolts and lag screws shall be tightened at installation and retightened before closing in or at completion of job.
16. Lay all structural sheathing on roof and floors with face grain perpendicular to support typical unless noted otherwise. Use ply-clips at unsupported sheathing edges.
17. Connector hardware model number are those for Simpson Strong-Tie Company. All joist hangers shall be Simpson U series unless noted otherwise. Equivalent connectors with ICC acceptance may be submitted for review as an alternate.
18. Notify Structural Engineer after wall, floor, and roof sheathing nailing has been completed and a minimum of 48 hours prior to concealing sheathing.
19. Fasteners, nuts, and washers in contact with SBX/DOT and zinc borate treated wood in interior dry conditions may be carbon steel. Fasteners in other preservative-treated wood (Anchor bolts, nails, screws) shall be approved silicon bronze or copper, stainless steel or hot-dipped zinc-coated steel per CBC 2304.10.5.1 u.n.o.

Adhesive Anchor Notes - Concrete

1. Use Hilti HIT-HY 200 V3 Epoxy Adhesive Anchors as manufactured by Hilti, Inc., Tulsa, Oklahoma. ICC Report No. ESR-4566 Reissued November 2024.
2. Installation of anchors shall be in accordance with the manufacturer's recommendations, ICC report and these notes.
3. Special Inspection is required for Allowable Tension values indicated on plans or details.
4. Tension Test Load values are based on 80% of twice the tension values listed.
5. Allowable loads may be increased for duration of loads such as wind or seismic forces.
6. Each anchor type (loaded in either pullout or shear) shall have 50% of the anchors (alternate in each group arrangement) tested in tension to the tension loads shown in the plans. If any anchor fails testing, all anchors of the same type not previously tested shall be tested until 20 consecutive anchors pass, then resume the initial testing frequency.
7. When installing anchors in existing concrete do not cut or damage existing reinforcing bars.
8. The testing of the anchors shall be done by the Testing Laboratory and a report of the test results shall be submitted to Architect/Structural Engineer. Testing shall occur 24 hrs. minimum after the installation of the anchors.
9. Where the number of anchors of a specific size and type exceed 100, the following testing procedure may be used. The first 40 anchors shall be tested as specified in note 6 above. 10% of additional anchors shall be tested. Any failure shall be handled in the same manner as specified in note 6 above.
10. Anchors installed in metal deck with concrete shall be installed in the center of the low flute of the decking.

Expansion Anchors-Masonry: (Carbon Steel)

1. Use Hilti Knik Bolt-TZ2 (KB-TZ2) Expansion Anchors as manufactured by Hilti, Inc., Tulsa Oklahoma. ICC Report No. ESR-4566 Issued December 2023.
2. Installation of anchors shall be in accordance with the manufacturer's recommendations, ICC Report, and these notes.
3. Special Inspection is required in accordance with the 2022 CBC Section 1704.1(25A)(OSHPD shall be per 1704A) & the ESR report. Special Inspector must verify product, expiration date, masonry compressive strength, anchor diameter and steel grade, compliance of drill bit, hole diameter and location (spacing and edge distance), cleanliness of hole and anchor, and anchor embedment.
4. Each anchor type (loaded in either pullout or shear) shall be torque tested to the appropriate test load shown in the table. If any anchor fails testing, all anchors of the same type not previously tested shall be tested until 20 consecutive anchors pass, then initial testing frequency may be resumed.
5. When installing anchors in existing masonry, do not cut or damage existing reinforcing bars. Locate existing reinforcing bars with pachometer or x-ray if required.
6. The testing of the anchors shall be done by the Testing Laboratory and a report of the test results shall be submitted to the Building Dept. and Architect/Structural Engineer.

Grouted Masonry Anchors

Fm = 1500 psi
Hilti Knik Bolt-TZ2 Expansion Anchors

Carbon Steel Anchors

Anchor Diameter	Nominal Embed	Installation Torque Torque Test Load (ft-lbs)
3/8"	1 1/8"	15
1/2"	3 3/8"	25
5/8"	4 1/2"	30
3/4"	5 1/2"	50

Nailing Schedule

1. All nails for structural work shall be common wire nails conforming to the following minimum sizes:
- 8d 0.131"φx2 1/2"
10d 0.148"φx3"
10d shorts 0.148"φx1 3/8" plus thickness of shft
16d 0.162"φx3 1/2"
20d 0.192"φx4"
2. Provide nails at connections as indicated on the structural drawings. Where nails at connections are not indicated nail per nailing schedule in note 5.
3. Nailing not noted in schedule or on plans shall be a minimum of two nails at each contact, 8d nails for 1" material and 16d nails for 2" material.
4. Holes shall be pre-drilled where necessary to prevent splitting.
5. Nailing schedule:

Connection	Fastening	Location
1. Joist to sill or girder.	3-8d common (2 1/2"x0.131") 3-3"x0.131" nails	toenail
2. Bridging to joist.	2-8d common (2 1/2"x0.131") 2-3"x0.131" nails	toenail ea end
3. 1"x6" subfloor or less	2-8d common (2 1/2"x0.131")	face nail
4. Wider than 1"x6" subfloor	3-8d common (2 1/2"x0.131")	face nail
5. 2" subfloor to joist or girder	2-16d common (3 1/2"x0.162")	blind & face nail
6. Sole plate to joist or blocking	16d (3 1/2"x0.135") @ 16"cc 3"x0.131" nails @ 8"cc	typical face nail
Sole plate to joist or blocking at braced wall panel	3-16d (3 1/2"x0.135") @ 16"cc 4-3"x0.131" nails @ 16"cc	braced wall panels
7. Top plate to stud.	2-16d common (3 1/2"x0.162") 3-3"x0.131" nails	end nail
8. Stud to sole plate	4-8d common (2 1/2"x0.131") 4-3"x0.131" nails	toenail
	2-16d common (3 1/2"x0.162") 3-3"x0.131" nails	end nail
9. Double studs.	16d (3 1/2"x0.135") @ 24"cc 3"x0.131" nail @ 8"cc	face nail
10. Double top plates.	16d (3 1/2"x0.135") @ 16"cc 3"x0.131" nail @ 12"cc	typical face nail
	8-16d common (3 1/2"x0.162") 12-3"x0.131" nails	lap splice
11. Blocking between joists or rafters to top plate.	3-8d common (2 1/2"x0.131") 3-3"x0.131" nails	toenail
12. Rim joist to top plate	8d (2 1/2"x0.131") @ 6"cc 3"x0.131" nail @ 6"cc	toenail
13. Top plates, laps and intersections.	2-16d common (3 1/2"x0.162") 3-3"x0.131" nails	face nail
14. Cont. header, two pieces.	16d common (3 1/2"x0.162")	16"cc along edge
15. Ceiling joists to plate.	3-8d common (2 1/2"x0.131") 5-3"x0.131" nails	toenail
16. Continuous header to stud.	4-8d common (2 1/2"x0.131")	toenail
17. Ceiling joists, laps over partitions. (Section 2308.10.4.1, Table 2308.10.4.1)	3-16d common (3 1/2"x0.162") min. Table 2308.10.4.1 4-3"x0.131" nails	face nail
18. Ceiling joists to parallel rafters. (Section 2308.10.4.1, Table 2308.10.4.1)	3-16d common (3 1/2"x0.162") min. Table 2308.10.4.1 4-3"x0.131" nails	face nail
19. Rafter to plate. (Section 2308.10.1, Table 2308.10.1)	3-8d common (2 1/2"x0.131") 3-3"x0.131" nails	toenail
20. 1" diagonal brace to stud & plate.	2-8d common (2 1/2"x0.131") 2-3"x0.131" nails	face nail
21. 1"x8" & wider sheathing to ea bearing.	3-8d common (2 1/2"x0.131")	face nail
22. Built-up corner studs.	16d (3 1/2"x0.162") @ 24"cc 3"x0.131" nail @ 16"cc	face nail @ ends and @ ea splice
23. Built-up girder & beams.	2-20d common (4"x0.192") @ 32"cc 3-3"x0.131" nails	face nail @ ends and @ ea splice
	2-20d common (4"x0.192") 3-3"x0.131" nails	face nail @ ends and @ ea splice

Abbreviations

addl..... Additional
alt..... Alternate
AISC..... American Institute of Steel Construction
APA..... American Plywood Association
ASTM..... American Society for Testing and Materials
AWS..... American Welding Society
AB..... Anchor bolt
#..... And
drch..... Architect/Architectural
@..... At
b.o..... Bottom of
bm..... Beam
brg..... Bearing
btr..... Better
btwn..... Between
blkd..... Blocking
BSJ..... Both sides
bott..... Bottom
BN..... Boundary nail
c/g..... Ceiling
cc..... Center to center
C..... Center line
clr..... Clear
col..... Column
CP..... Complete Penetration
conc..... Concrete
CMU..... Concrete masonry unit
conn..... Connection
CAF..... Construction Joint
cont..... Continuous
csk..... Countersink
CTJ..... Control Joint
DL..... Dead Load
det..... Detail
diag..... Diagonal
dia..... Diameter
di..... Ditto
D.F..... Douglas Fir
dbl..... Double
dn..... Down
dwd..... Drawing
ea..... Each
E.F..... Each Face
embed..... Embedment
EN..... Edge Nail
E.W..... Each Way
elev, el..... Elevation
eq..... Equal
equip..... Equipment
(e)..... Existing
EJ..... Expansion Joint
FC..... Face of Concrete
FB..... Face of Block
FM..... Face of Masonry
FP..... Face of Plywood/Sheathing
FS..... Face of Stud
fin..... Finish
F.F..... Finish Floor
F.G..... Finish grade
fir..... Floor
frg..... Footing
frd..... Foundation
f.o..... Face of
frmng..... Framing
galv..... Galvanized
ga..... Gauge
glb..... Glued-laminated beam
g.l..... Grid Line
hgr..... Hanger
hdr..... Header
ht..... Height
HSB..... High strength bolt
HSS..... Hollow Steel Section
hk..... Hook
horiz..... Horizontal
i.d..... Inside diameter
int..... Interior
inv..... Inverted
jst..... Joist
jh..... Joist hanger
LS..... Lag screw
lt. wt..... Light weight
LL..... Live Load

LLH.....Long leg horizontal
LLV.....Long leg vertical
LVL.....Laminated Veneer Lumber
MB.....Machine bolt
mfr.....Manufacturer
max.....Maximum
mech.....Mechanical
MI.....Malleable Iron
min.....Minimum
misc.....Miscellaneous
mtl.....Metal
N.I.C.....Not in contract
n.....New
nts.....Not to scale
#.....Number or pounds
o.....Over
oc.....On center
ONU.....Open web joist
opng.....Opening
opp.....Opposite
O.H.....Opposite Hand
o.d.....Outside diameter
PP.....Partial penetration
pc.....piece
PL.....Plate
ply plynd.....Plywood
psf.....Pounds per cubic foot
psf.....Pounds per square foot
psi.....Pounds per square inch
PAF.....Powder Actuated Fasteners
PTDF.....Pressure Treated Douglas Fir
r, rad.....Radius
RPWD.....Redwood
rein.....Reinforcing
req'd.....Required
rf.....Roof
R.O.....Rough opening
#.....Round or diameter
sched.....Schedule
S.A.D.....See architectural drawings
S.E.D.....See electrical drawings
S.M.D.....See mechanical drawings
SMS.....Sheet Metal Screws
SDS.....Simpson Strong-Drive Screws
SDSTS.....Self drilling self tapping screw
SC.....shear connector 3/4"φ u.n.o.)
shft.....Sheathing
shg.....Sheet
shs.....Sheet metal screw
sim.....Similar
s.o.g.....Slab on grade
#.....square
stdg.....Standard
std.....Standard
stl.....Steel
ssl.....Stainless Steel
stfr.....Stiffener
struct.....Structural
SP.....structural plywood
SPEN.....structural plywood
symm.....Symmetrical
TN.....Toe nail
t4b.....Top & bottom
t.o.c.....Top of concrete
t.o.f.....Top of framing
t.o.p.....Top of plate
t.o.s.....Top of Steel
t.o.w.....Top of Wall
t4g.....Tongue & Groove
TS.....Tube Steel
typ.....Typical
unr.o.....Unless noted otherwise
vert.....Vertical
v.i.f.....Verify in field
w.....With
w/m.....Within
w/out.....Without
WS.....Wood screw
W.F.....Working point
WHS.....Welded headed studs
WNF.....Welded wire fabric
WCLIB.....West Coast Lumber Inspection Bureau

Test and Inspections

1. Tests and Inspections shall be provided as required below and shall conform to the requirements of the 2022 CBC, Chapter 17.
2. All Test and Inspections shall be performed by a certified special inspector from an established Testing & Inspection Company, unless noted otherwise. Jobsite visits by the Structural Engineer do not constitute inspections and are not a substitute for special inspection.
3. The special inspector shall observe the work indicated for conformance with the approved construction documents.
4. The special inspector shall furnish inspection reports to the building department, the engineer or architect of record, and other designated persons. All discrepancies shall be brought to the immediate attention of the contractor for correction, then, if uncorrected, to the proper design authority and to the building department.
5. The special inspector shall submit a final signed report stating whether the work requiring special inspection was, to the best of the inspector's knowledge, in conformance with the approved construction documents and the applicable workmanship provisions of the 2022 CBC.
6. It is the contractor's sole responsibility to see that these tests and inspections are performed.
7. Required Tests and Inspections are indicated below with a solid filled rectangle
8. Continuous notation indicates the full-time observation of work requiring special inspection by an approved special inspector who is present at the work area. Periodic notation indicates the intermittent observation of work.
- Tests & Documentation/Certification Required
Note: Coordinate with building department Test & Inspection form.

- ☐ A. Compact fill
- ☐ B. Concrete mix design, cement, aggregates & admixtures
- ☐ C. Concrete strength Fc test
- ☐ D. Reinforcing steel mill certification
- ☐ E. Structural steel mill certification
- ☐ F. Structural steel, cold formed steel, and anchor bolt sampling & testing (if not properly identified)
- ☐ G. Non-destructive weld test for all complete penetration groove welds by Ultrasonic testing or Radiography
- ☐ H. Masonry strength fm
- ☐ I. Masonry mortar, grout, proportion, aggregates, additives
- ☐ J. Post installed anchors: Expansion / Epoxy Anchors
- ☐ K. High strength bolts, nuts and washers
- ☐ L. End-welded studs
- ☐ M. Buckling Restrained Brace (Load Test)
- ☐ N. Beam to column moment connection
- ☐ O. Veneer bond strength test
- ☐ P. Concrete prestressing tendons and anchorage
- ☐ Q. Shotcrete preconstruction test
- ☐ R. Shotcrete strength & core test
- ☐ S. Prefabricated items
- ☐ T. Test to support alternative designs
- ☐ U. Isolator unit prototype & production testing

Verification and Inspection

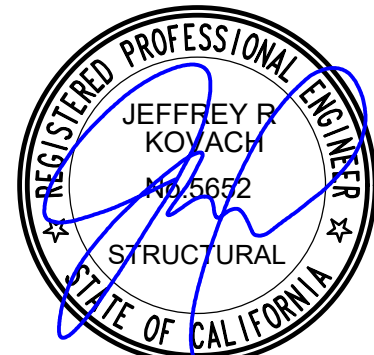
Continuous

Periodic

- ☐ A. STEEL
1. Material verification of high-strength bolts, nuts & washers
- ☐ 2. Inspection of high-strength bolting, bearing & typical connections
- ☐ 3. Inspection of Welding Structural Steel: (field/shop) Complete & partial penetration groove welds Multi-pass fillet welds Single-pass fillet welds > 5/8" Single-pass fillet welds < 5/8" Floor and roof deck welds
- ☐ 4. Inspection of Steel Frame Joint Details for Compliance with Approved Construction Documents
- ☐ 5. Automatic end-weld stud shear connectors
- ☐ B. CONCRETE
1. Concrete Placement
- ☐ 2. Inspection of reinforcing steel & placement
- ☐ 3. Inspection of anchors cast in concrete
- ☐ 4. Precast concrete attachments & inserts
- ☐ 5. Erection of precast concrete members
- ☐ C. WOOD
- ☐ 1. Verify grade and thickness of sheathing
- ☐ 2. Verify nominal size of framing members at adjoining panel edges
- ☐ 3. Verify nail diameter and length, number of fastener lines, spacing between fasteners in each line and at edge margins
- ☐ 4. Verify positive connection of wood members supporting balcony or deck connections to exterior walls prior to concealment
- ☐ D. MASONRY PLACEMENT & GROUTING
Note: refer to TMS 602-16 Tables 3 & 4
- ☐ 1. Level 2 masonry inspection (Risk Categories I, II, III)
- ☐ 2. Level 3 masonry inspection (Category IV, DSA, OSHPD)
- ☐ E. SOIL (by Geotechnical Engineer)
- ☐ 1. Footing excavation
- ☐ 2. Pile/Pier foundation
- ☐ 3. Material verification below footing
- ☐ 4. Excavation verification to proper depth
- ☐ 5. Placement and compaction of controlled fill
- ☐ 6. Site preparation prior to placement of controlled fill
- ☐ F. POST INSTALLED ANCHORS
- ☐ 1. Expansion anchor installation
- ☐ 2. Epoxy anchor installation



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Web: www.bevier.net
Bevier Job No: 24105



Electronically Signed On: 10/6/25

JOB TITLE:

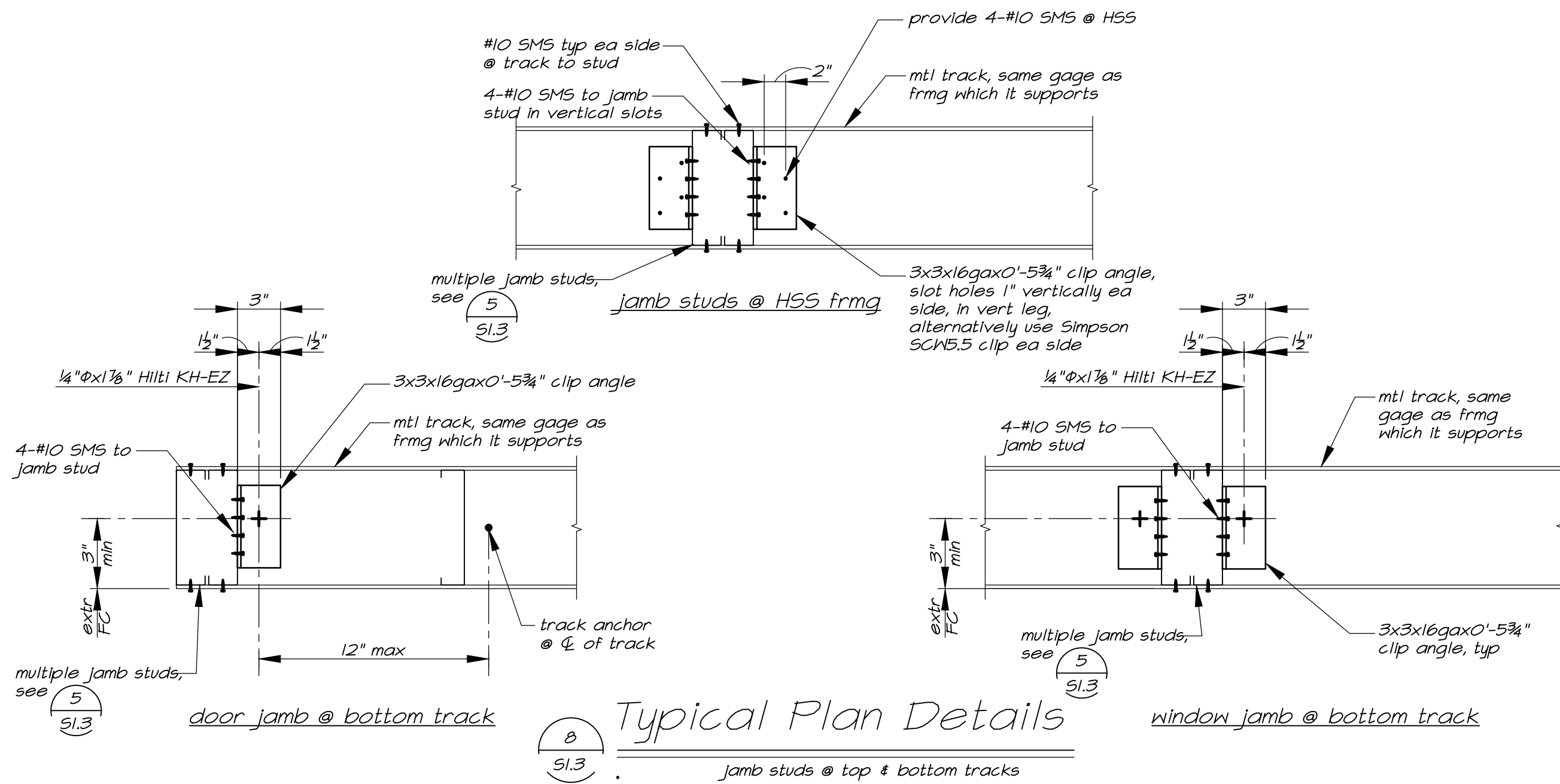
CONSTRUCTION DOCUMENTS FOR:
YOLO COUNTY-
ROADS BUILDING RENOVATIONS
284 W. BEAMER STREET
WOODLAND, CA

CLIENT: YOLO COUNTY GENERAL SERVICES DEPARTMENT
ADDRESS: 120 W. MAIN STREET., SUITE D. WOODLAND CA

REVISIONS:

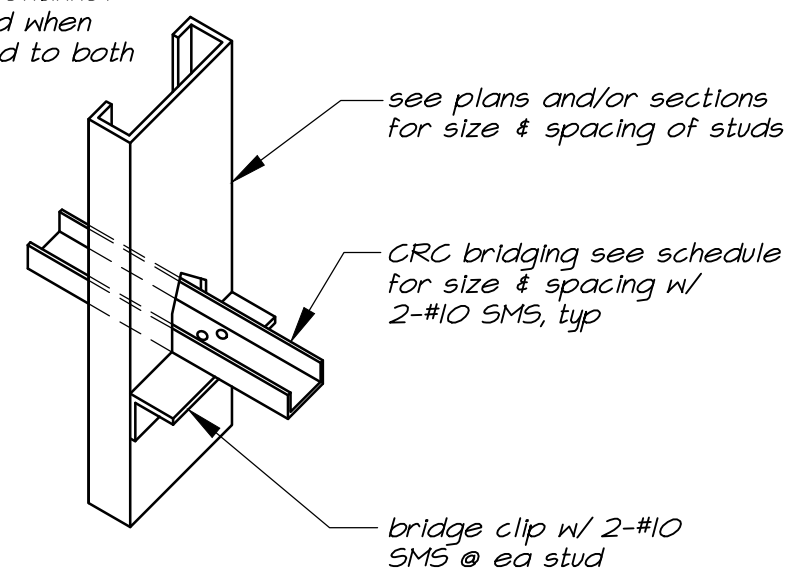
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JOB NO.
SHEET 1.2
GENERAL NOTES
OF 7 SHEETS



Bridging in Punch-Outs		
Stud Size	Bridging Member	Bridge Clip
3 1/2"-8"	CRC-1 1/2"x16ga @ 4'-0"cc max	1 1/2"x2"x16ga x length to be 1/4" less than stud width LLH typ

Notes:
 1. CRC = Cold Rolled Channel
 2. Bridging is not req'd when gyp board is applied to both sides of the wall

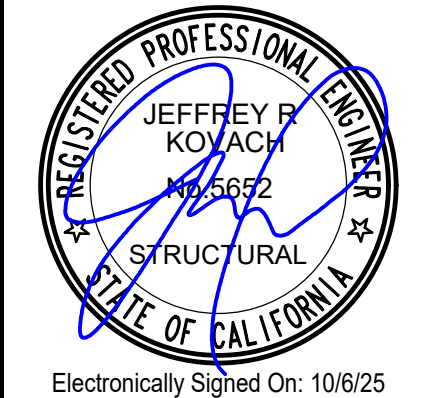
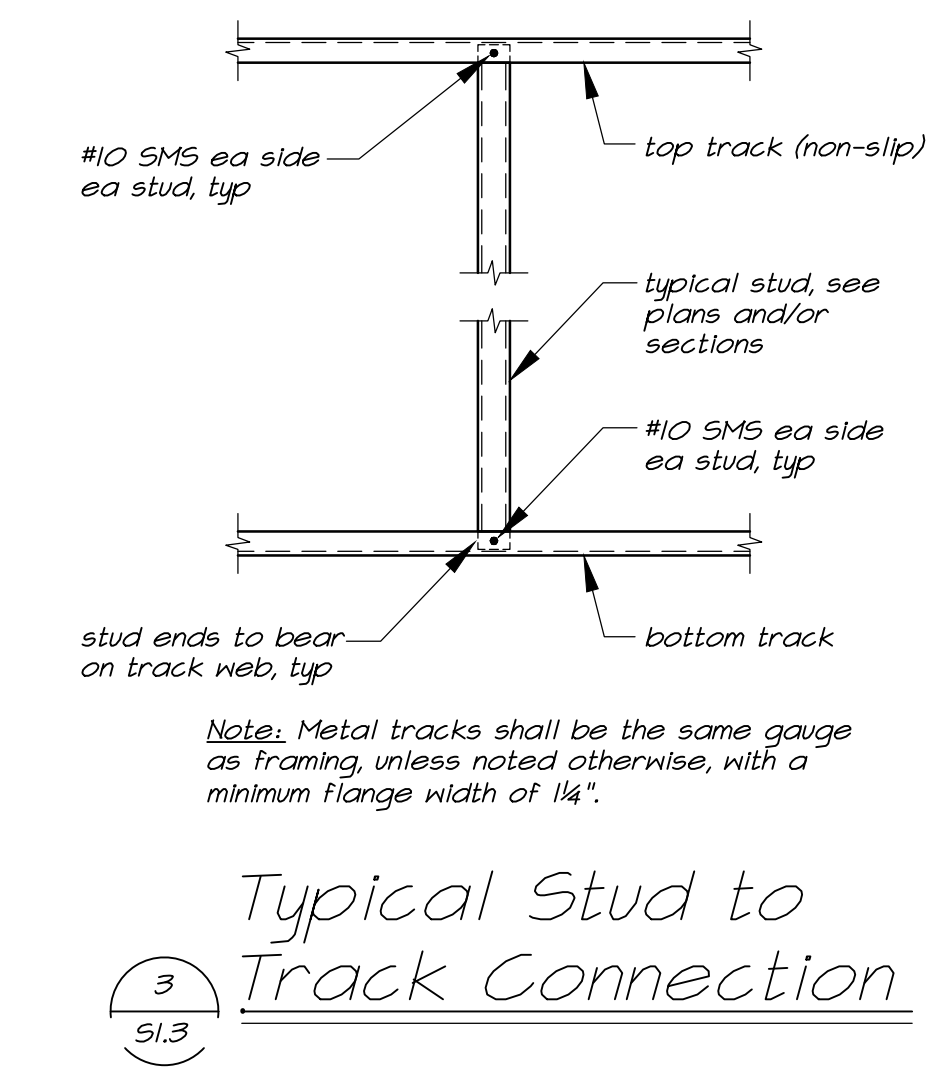
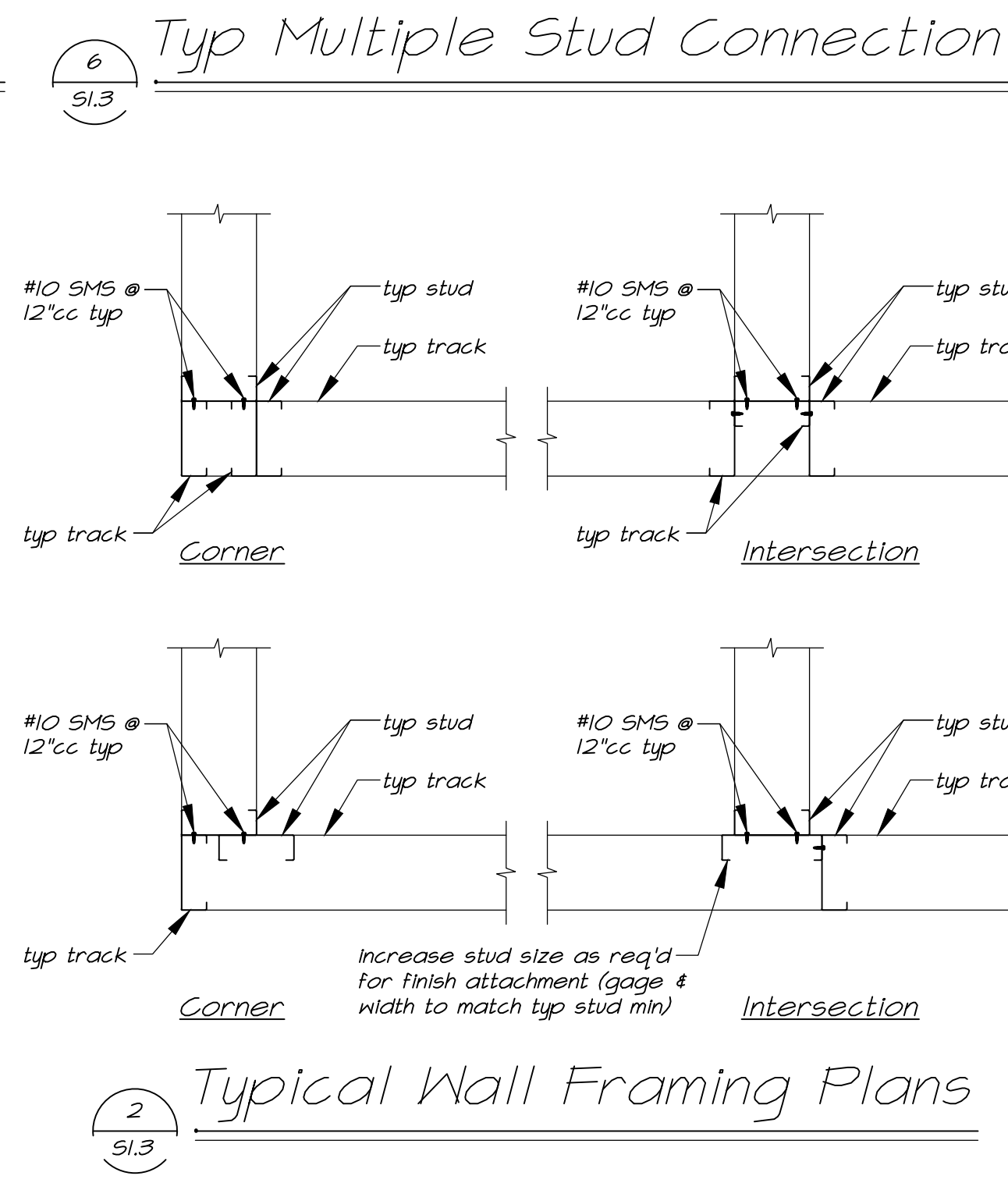
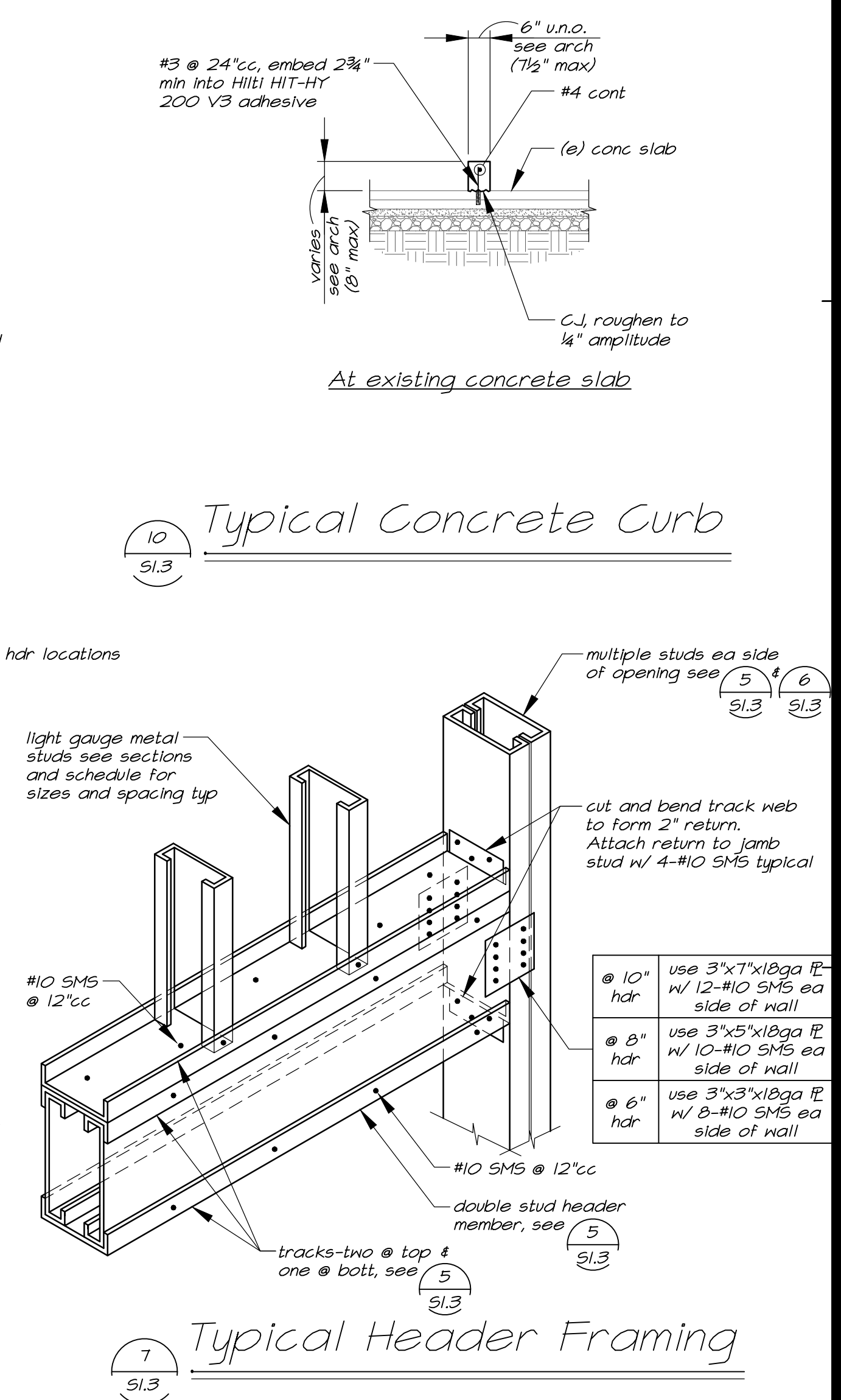
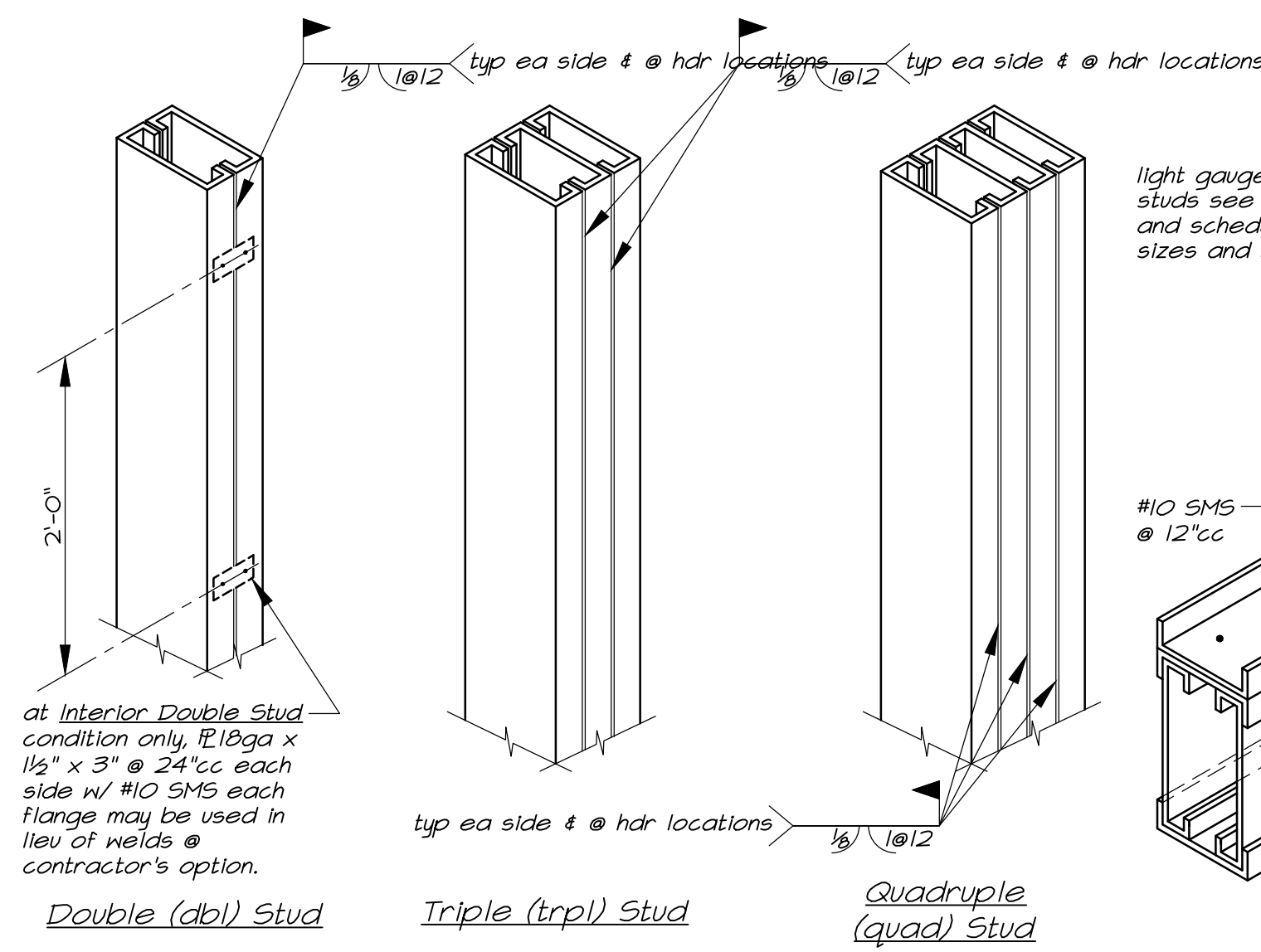
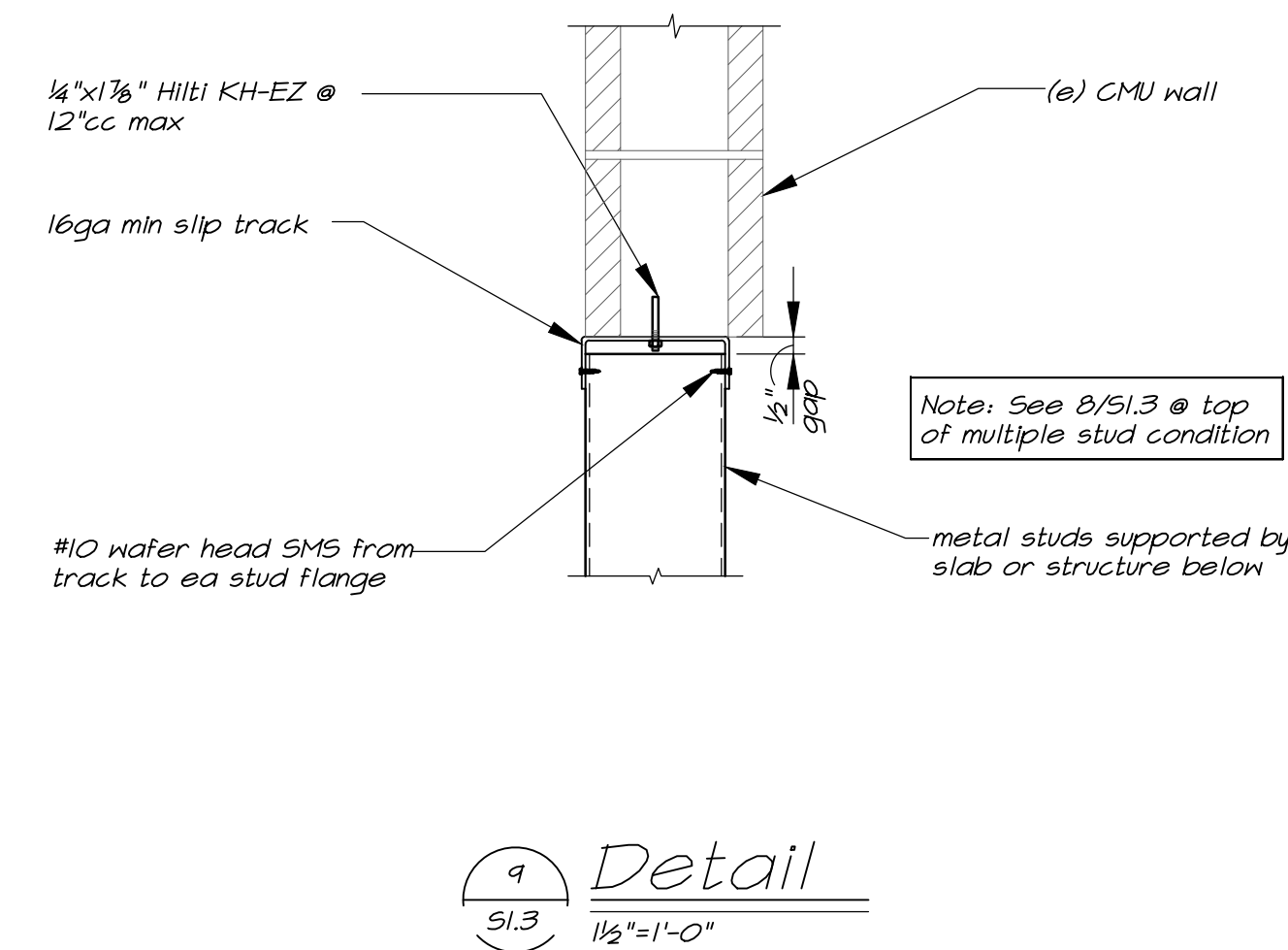
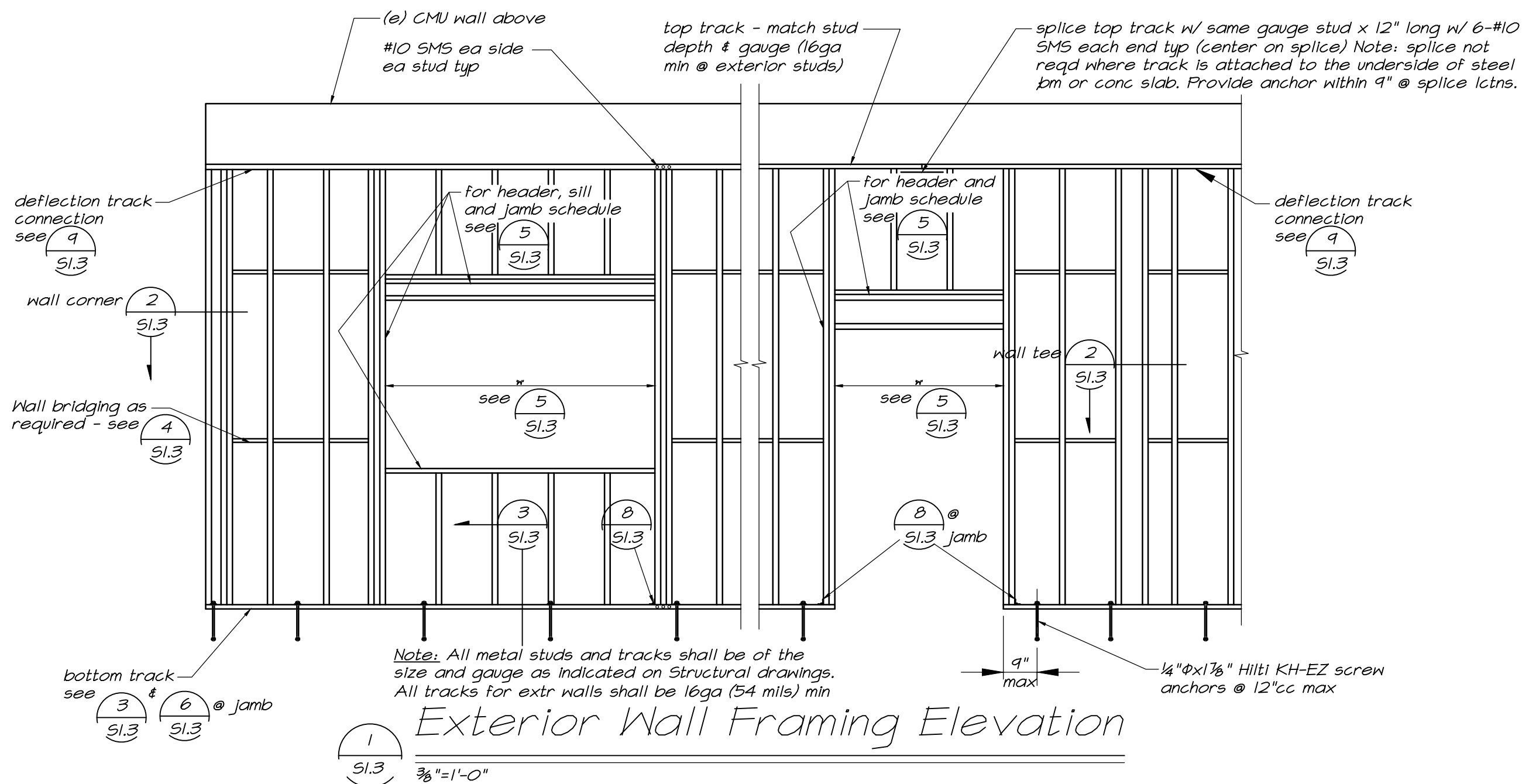


Typical Stud Bridging

W' Opening width max	Required jamb stud	typ u.o.	Required hdr section
4'-0" max	dbl 600S137-43	dbl 600S137-43 w/ 3-600T125-43 t&b	
5'-0" max	dbl 600S137-43	dbl 600S137-54 w/ 600T125-43 t&b	
12'-0" max	dbl 600S162-54	dbl 600S162-54 w/ 600T125-54 t&b	

Schedule Notes:
 1. The requirements of this schedule shall govern unless specifically detailed or noted otherwise.
 2. Metal stud section properties shall conform to the Steel Stud Manufacturer's Association Product Catalog (SSMA) as specified in the Lightgauge Steel notes.
 3. All header members shall be unpunched.
 4. At interior non-bearing conditions, track width @ headers and sills shall match depth of studs as specified in the architectural drawings. Flange length & ga shall match this table.
 5. At spans over 12'-0", provide diagonal bracing of headers/sills to structural framing @ 4'-0" cc max per sections. (W' = 4'-0" max @ these locations)
 6. Maximum width shown in table is either the width between the jamb studs or between diagonal bracing as shown in note #5 above (where diag bracing occurs.)

Exterior Wall Header Schedule



JOB TITLE:

CONSTRUCTION DOCUMENTS FOR:
**YOLO COUNTY -
 ROADS BUILDING RENOVATIONS**
 284 W. BEAMER STREET
 WOODLAND, CA
 CLIENT: YOLO COUNTY GENERAL SERVICES DEPARTMENT
 ADDRESS: 120 W. MAIN STREET., SUITE D. WOODLAND CA

REVISIONS:

DATE	DESCRIPTION
△	
△	
△	
△	
△	
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DATE 00/00/25
 DRAWN JW
 JOB NO.
 SHEET **S1.3**
 TYPICAL DETAILS
 OF 7 SHEETS

BEVIER
 STRUCTURAL ENGINEERING
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 Bevier Job No: 24105

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E

D

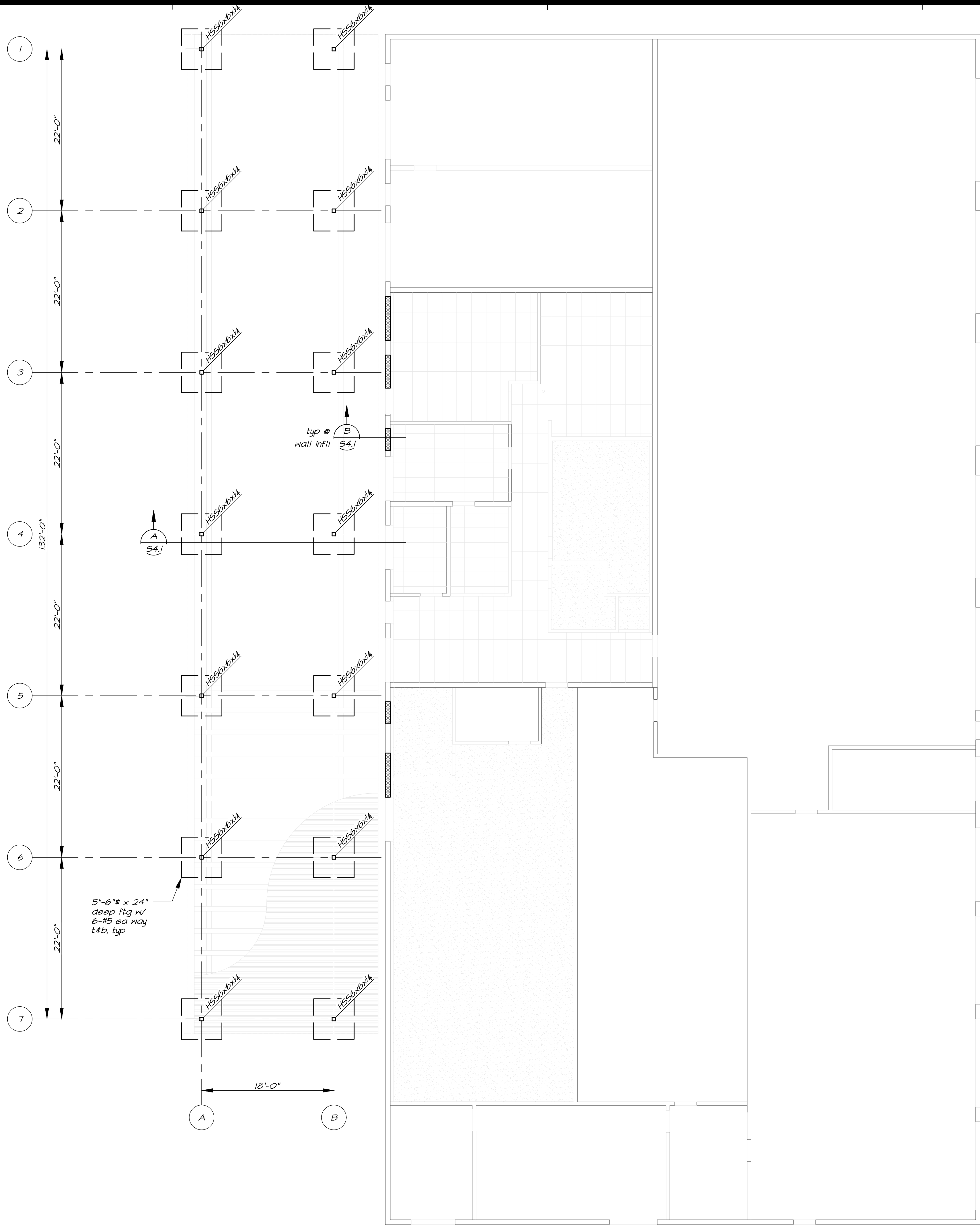
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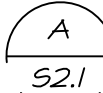
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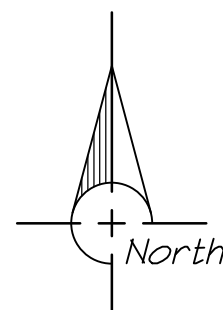
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Foundation Notes

1. Site preparation and building pad construction shall be done in accordance with the recommendations in the 2022 California Building Code (CBC).
2. Verify all dimensions with architectural drawings. Notify Architect immediately of any discrepancies for resolution prior to proceeding.
3. Dimensions are to face of concrete (FC) or column centerlines, typical u.n.o.
4. Spread Footings are centered on columns and braced frames, typical u.n.o.
5. Top of concrete slab = reference elevation +0'-0".
6. Top of footing elevation = -0'-12" below reference elevation +0'-0" typical u.n.o.
7. Slab block-outs shown at columns are diagrammatic. Actual size and configuration is to be determined by the contractor for constructability.
8. Provide 3" concrete cover minimum @ base IR, anchor bolts, and columns typical.
9.  Indicates HSS column, size indicated on plan.
10.  Indicates (n) metal stud infill @ (e) CMU wall openings, see  & 



 Foundation Plan
1/8"=1'-0"



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Bevier Job No: 24105



Electronically Signed On: 10/6/25

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284 W. BEAMER STREET
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CLIENT: YOLO COUNTY GENERAL SERVICES DEPARTMENT
ADDRESS: 120 W. MAIN STREET., SUITE D. WOODLAND CA

REVISIONS:

	DATE:	DESCRIPTION:
		
		
		
		
		
		

DATE 00/00/25

DRAWN JW

JOB NO. -

SHEET **S2.1**
FOUNDATION PLAN
OF 7 SHEETS

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3
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E

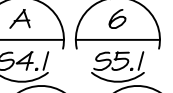
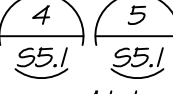
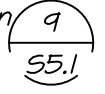
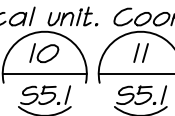
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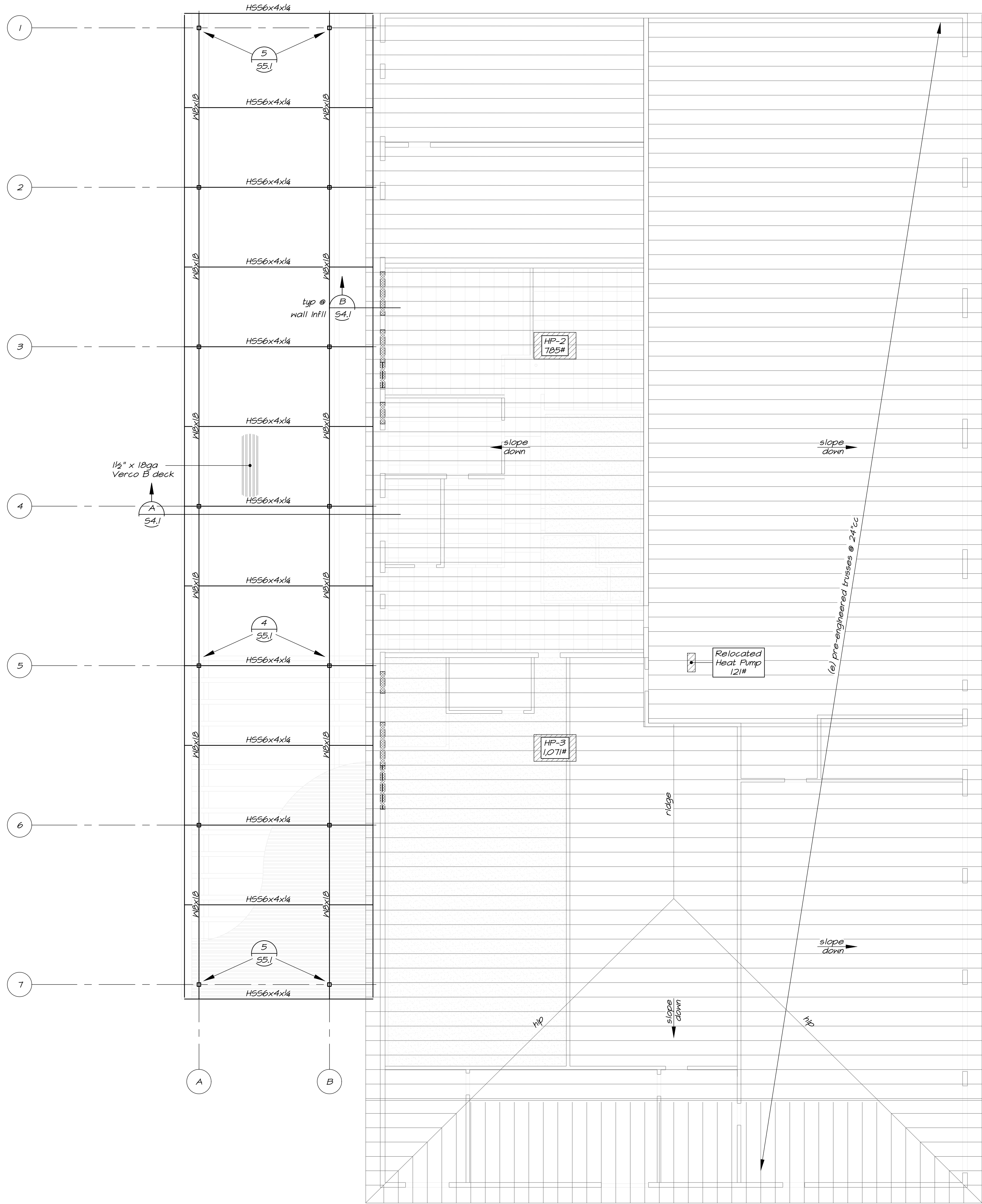
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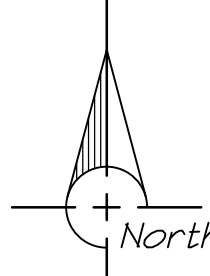
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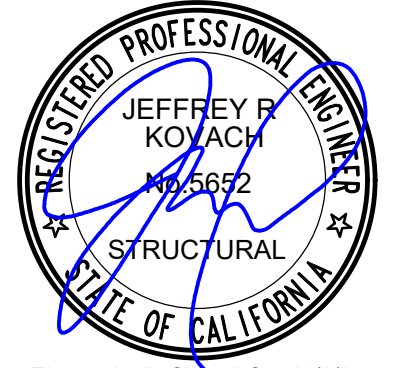
Roof Framing Notes

1. Dimensions are to centerline of steel or edge of decking typical u.o.
2. C=3/4" indicates amount of camber required at mid-span of beam or girder.
3. For typical beam to beam connections, see 
4. For typical beam to column connections, see 
5. Metal deck must be attached to all steel beams. At locations where low flutes do not align with beam, split deck as in 
6.
11.  Indicates HSS column. See Foundation Plan for size.
12.  Indicates span direction of metal deck. For metal deck types and typical details, see 
13.  Indicates approximate location & weight of mechanical unit. Coordinate exact location of unit w/ mechanical drawings & see 



 **Roof Framing Plan**
S2.2 1/8"=1'-0"

BEVIER
STRUCTURAL ENGINEERING, INC.
2479 Sunrise Blvd.
Gold River, CA 95670
Tel: (916) 631-3030
Fax: (916) 631-8996
Web: www.bevier.net
Bevier Job No: 24105


Electronically Signed On: 10/6/25

JOB TITLE:

CONSTRUCTION DOCUMENTS FOR:
**YOLO COUNTY-
ROADS BUILDING RENOVATIONS**
284 W. BEAMER STREET
WOODLAND, CA
CLIENT: YOLO COUNTY GENERAL SERVICES DEPARTMENT
ADDRESS: 120 W. MAIN STREET., SUITE D. WOODLAND CA

REVISIONS:

DATE	DESCRIPTION
	
	
	
	
	
	

DATE 00/00/25
DRAWN JW
JOB NO. -
SHEET **S2.2**
ROOF FRAMING PLAN
OF 7 SHEETS

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2
3
4
5

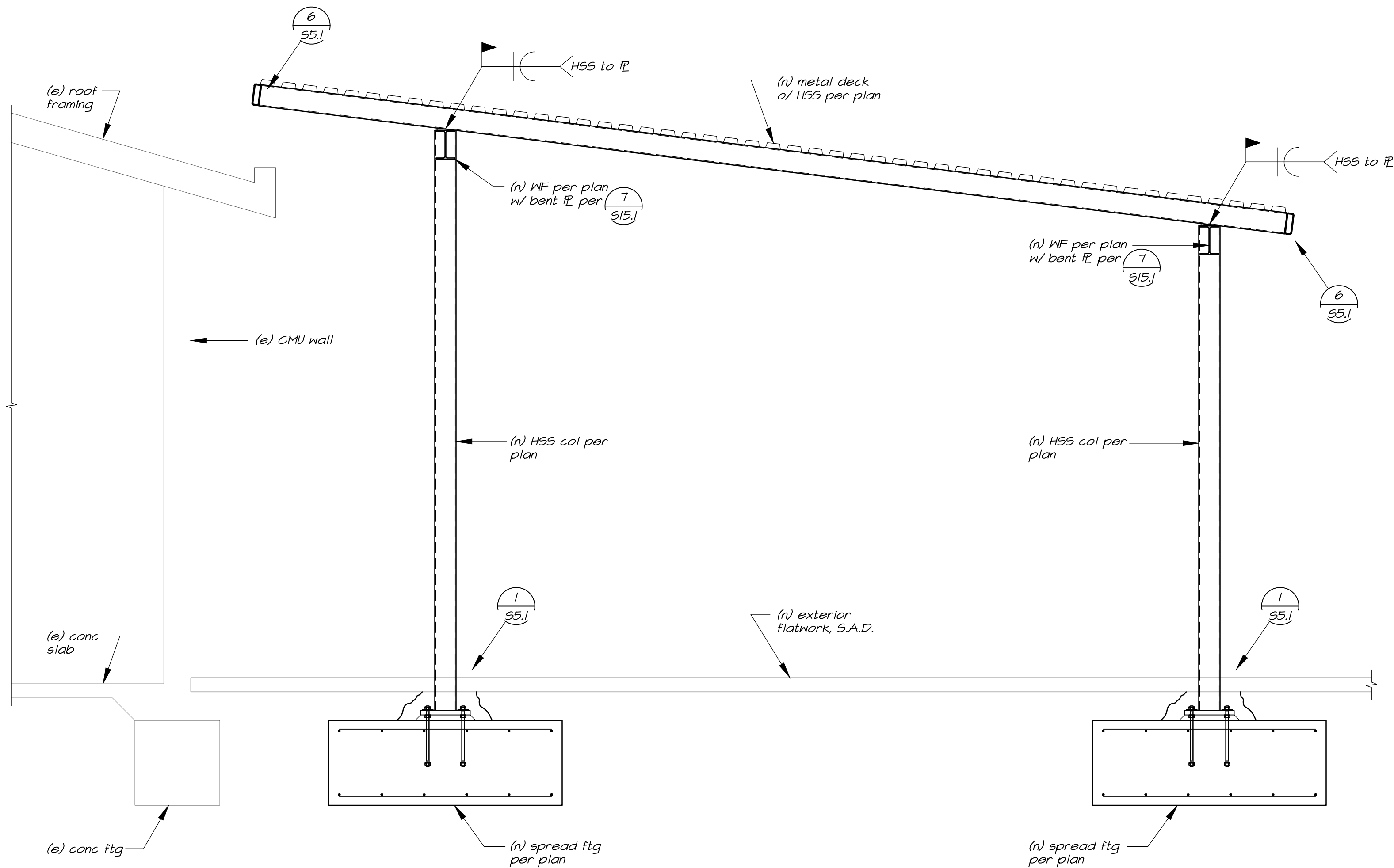
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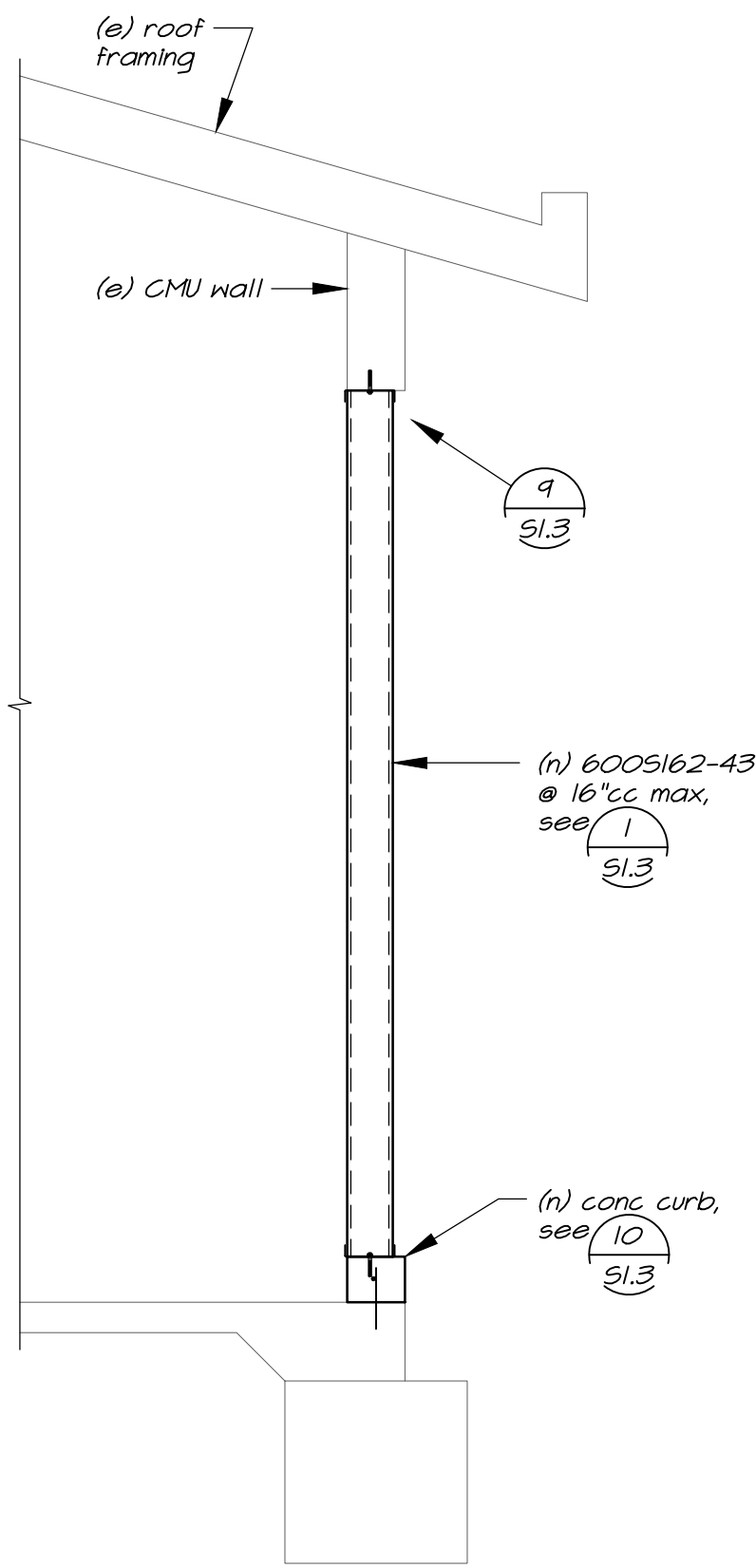
C

B

A



A
S4.1
Section
1/2" = 1'-0"



B
S4.1
Section
1/2" = 1'-0"



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DATE 00/00/25

DRAWN JW

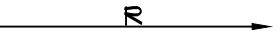
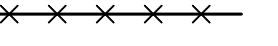
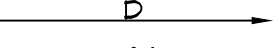
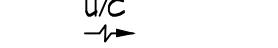
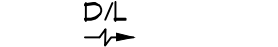
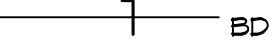
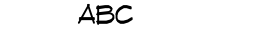
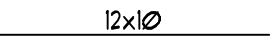
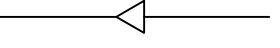
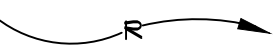
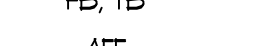
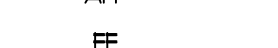
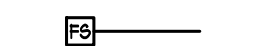
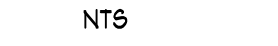
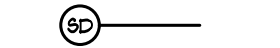
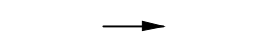
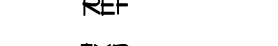
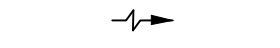
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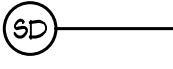
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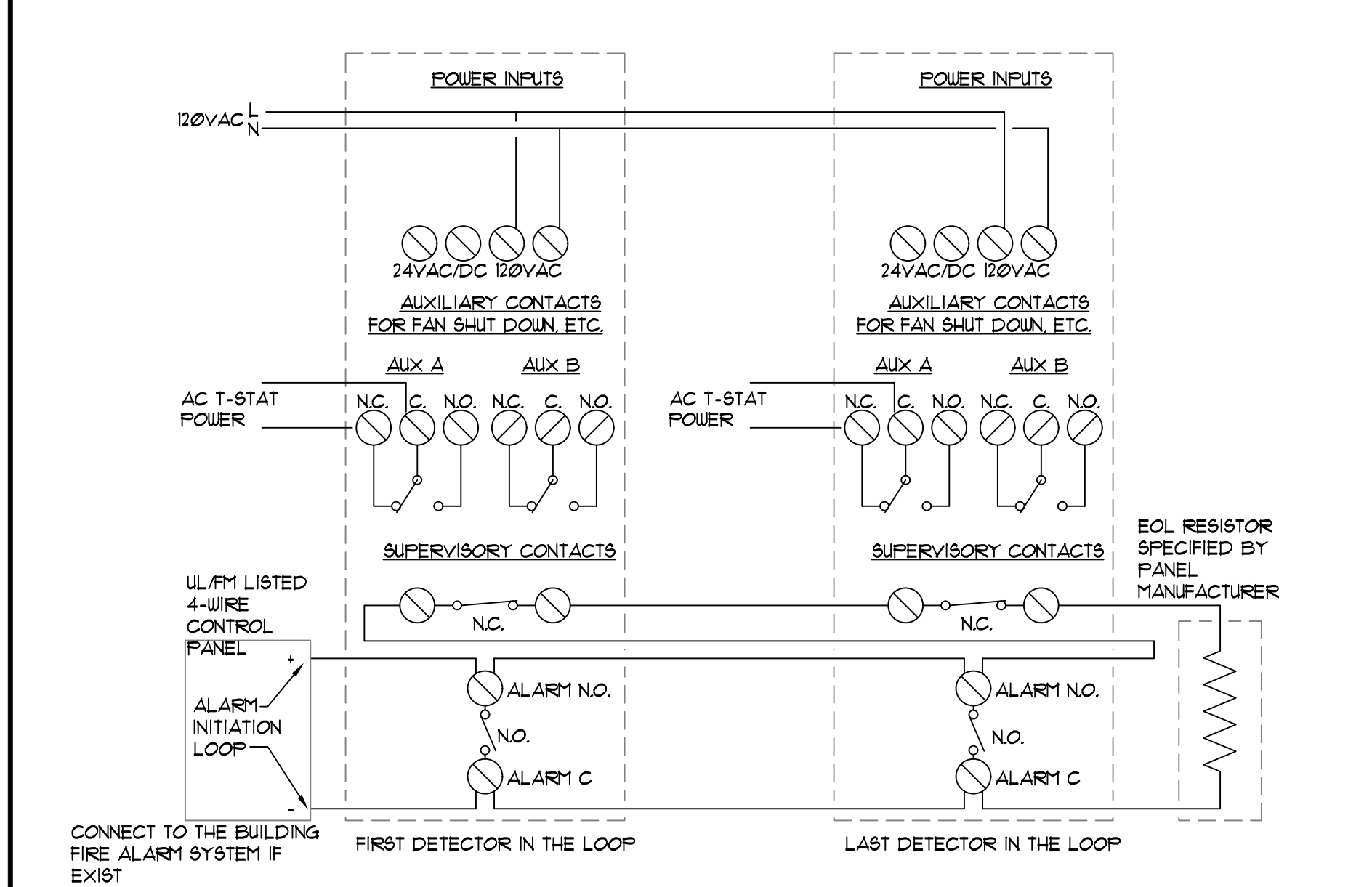
OF 7 SHEETS

MECHANICAL LEGEND

SYMBOL / ABBREVIATION	DESCRIPTION	SYMBOL / ABBREVIATION	DESCRIPTION
	DUCT RISE		DUCT DEMO
	DUCT DROP		UNDERCUT DOOR
	OUTSIDE AIR		DOOR LOUVER
	SUPPLY AIR		OUTSIDE AIR
	RETURN AIR		DIAMETER OR PHASE
	EXHAUST AIR		ABOVE CEILING
	BALANCE DAMPER		CEILING
	DUCT (12x10)		ACCESS PANEL
	ACOUSTICAL LINED DUCTING		CUBIC FEET PER MINUTE
	DUCT TRANSITION		EXISTING TO BE FIELD VERIFIED BY CONTRACTOR
	SUPPLY, RETURN, EXHAUST RISER		FROM ABOVE, TO ABOVE
	THERMOSTAT, SENSOR, HUMIDISTAT, CO2		FROM BELOW, TO BELOW
	RELOCATE, EXTEND/SHORTEN DUCT AS REQUIRED		ABOVE FINISHED FLOOR
	POINT OF CONNECTION		FINISHED FLOOR
	MOTORIZED DAMPER		PER FOOT
	RADIATION FIRE DAMPER		NOT IN MECHANICAL CONTRACT
	FIRE SMOKE DAMPER		NOT TO SCALE
	DUCT SMOKE DETECTOR		OPPOSED BLADE DAMPER
	AIRFLOW (OUTLET ARROW)		REFERENCE
	AIRFLOW (INLET ARROW)		TYPICAL

DUCT SMOKE DETECTOR SCHEDULE

SYMBOL	DESCRIPTION
	DUCT SMOKE DETECTOR, SYSTEM SENSOR MODEL* D4120, UL 268A COMPLIANT, COMPLETE WITH 20-29 VDC 24/120 VAC OPERATION, LOW PROFILE, ACCOMMODATES ION OR PHOTO HEADS, TWO FORM AUXILIARY CONTACTS, AIR VELOCITY RATING FROM 100- 4000 FPM, MOUNT SMOKE DETECTOR IN SUPPLY AIR PLENUM INSIDE COOLING UNIT SUCH THAT IT IS EASILY ACCESSIBLE FROM THE ROOF, FACTORY MOUNTED AND WIRED SMOKE DETECTORS IN THE SUPPLY AIR STREAM ARE ACCEPTABLE AND PREFERRED, DUCT SMOKE DETECTORS SHALL BE MONITORED BY FIRE ALARM CONTROL PANEL IF AVAILABLE, IF NO MONITOR EXISTS, COMPLETE SYSTEM WITH SYSTEM SENSOR MODEL* RTS2-A05 AUDIBLE AND VISUAL SIGNALING AND TESTING DEVICE, WIRE PER MANUFACTURERS INSTALLATION INSTRUCTIONS. NOTES: 1. SMOKE DETECTOR SHALL BE FURNISHED, INSTALLED, AND WIRED BY MECHANICAL CONTRACTOR, WIRE THERMOSTAT POWER THROUGH NORMALLY CLOSED DRY CONTACTS, UPON ALARM, CONTACTS TO OPEN SHUTTING DOWN ALL UNITS. 2. POWER SMOKE DETECTOR FROM 120V CIRCUIT. 3. FOR EVAPORATIVE COOLERS ONLY, PHOTOELECTRONIC TYPE TO BE USED AND DETECTOR SAMPLING TUBE IN AIRSTREAM TO BE INCLINED DOWN AWAY FROM DETECTOR.

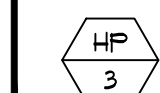


THE FOLLOWING HVAC EQUIPMENT REQUIRES THE INSTALLATION OF A SMOKE DETECTOR DEVICE IN THE SUPPLY DUCT PER 2019 CMC, SECTION 608 AND 2018 NFPA 90A, CHAPTER 6.



DUCT SMOKE DETECTOR NOTES

SMOKE DETECTORS FOR THE FOLLOWING EQUIPMENT ARE NOT REQUIRED PER CMC 608.1 EXCEPTION 2: AUTOMATIC SHUTOFF IS NOT REQUIRED WHEN ALL OCCUPIED ROOMS SERVED BY THE AIR-HANDLING EQUIPMENT HAVE DIRECT EXIT TO THE EXTERIOR AND THE TRAVEL DISTANCE DOES NOT EXCEED 100 FEET.



GENERAL MECHANICAL NOTES

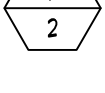
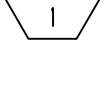
- EQUIPMENT: ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND EQUAL IN QUALITY, TYPE, CAPACITY, EFFICIENCY, AND ACCESSORIES TO THE EQUIPMENT NOTED ON THE DRAWINGS. ADJUSTMENTS TO CONSTRUCTION AND ACCESSORIES ON SUBSTITUTED EQUIPMENT MAY BE REQUIRED TO ACHIEVE THIS EQUALITY, AND SHALL BE INCLUDED AT NO EXTRA COST TO THE OWNER MAKE ANY CHANGES IN DUCTWORK, PIPING, FRAMING, ETC., AS REQUIRED TO ACCOMMODATE SUBSTITUTED EQUIPMENT.
- INSTALLATION: INSTALL ALL EQUIPMENT AND MATERIALS AND PERFORM ALL WORK IN ACCORDANCE WITH EDITION APPLICABLE CODES INCLUDING BUT NOT LIMITED TO:
2022 CALIFORNIA MECHANICAL CODE (CMC)
2022 CALIFORNIA ENERGY CODE (CEC) INCLUDING LOCAL AMENDMENTS
CALIFORNIA CODE OF REGULATIONS (CCR)
2022 CALIFORNIA BUILDING CODE (CALIFORNIA CODE OF REGULATIONS, TITLE 24)
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
2022 CALIFORNIA FIRE CODE (CFC)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
WHERE HEAVIER GAUGES OF MATERIAL, LARGER SIZES OR MORE STRINGENT REQUIREMENTS THAN THE CODES ARE REQUIRED BY THE CONTRACT DOCUMENTS, SUCH INCREASED REQUIREMENTS SHALL APPLY.
- SHEET METAL DUCTWORK: ALL SHEET METAL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE TO CMC STANDARDS AND SMACNA GUIDELINES WITH THE MORE STRINGENT BEING APPLIED. ALL DUCT JOINTS INCLUDING MECHANICAL FLANGED JOINTS SHALL BE SEALED WITH SILVER PASTE OR ARABOL, AND CANVAS SEAL. THE JOINTS OF ALL DUCTS EXPOSED TO THE WEATHER WITH ARABOL AND CANVAS. PROVIDE ALL BRANCH DUCTS WITH VOLUME DAMPERS WITH LOCKING QUADRANTS LOCATED AT LEAST FIVE FEET (5') FROM THE GRILLE OR DIFFUSER SERVED. WITH LONG RADIUS ELBOWS. CONCEALED DAMPERS SHALL HAVE CABLE OPERATED MECHANISMS TO ALLOW ADJUSTMENTS WITH OUT DISTURBING THE STRUCTURE. ALL RECTANGULAR OR ROUND RIGID DUCTS SHALL BE OF SMACNA GAGE GALVANIZED STEEL OR ALUMINUM, UNLESS OTHERWISE NOTED ON THE DRAWINGS. PROVIDE FLAT SEAM CONSTRUCTION FOR ANY DUCTS EXPOSED IN OCCUPIED SPACE. NOTE: ALUMA-FLEX IS NOT ACCEPTABLE IN LIEU OF ROUND RIGID DUCTWORK. ALL DUCT OPENINGS SHALL BE SEALED AGAINST DUST AND DEBRIS UNTIL FINAL START-UP.
- DUCT SUPPORTS: ALL PIPING AND DUCTWORK SHALL BE SUPPORTED IN ACCORDANCE WITH CMC STANDARDS OR SMACNA SEISMIC RESTRAINT MANUAL GUIDELINES FOR MECHANICAL SYSTEMS. CONTRACTOR SHALL PROVIDE CALCULATIONS FOR SEISMIC SUPPORTS AND RESTRAINTS THAT ARE ACCEPTABLE TO THE REVIEWING AUTHORITY.
- FLEXIBLE DUCT: FLEXIBLE DUCTS SHALL BE ATCO 30, GENFLEX F29, THERMAFLEX M-KB, OR APPROVED EQUAL. FLEXIBLE DUCTWORK SHALL NOT BE USED WHERE EXPOSED DUCTWORK OCCURS, FIRE RATED WALL, FLOOR OR CEILING ASSEMBLIES EXISTS, AND TEMPERATURES EXCEEDS 250°F. PER 2022 CMC 603.4.1, FACTORY-MADE FLEXIBLE AIR DUCTS SHALL NOT BE MORE THAN 5 FEET IN LENGTH AND SHALL NOT BE USED IN LIEU OF RIGID ELBOWS OR FITTINGS, AND FLEXIBLE AIR DUCTS SHALL BE PERMITTED TO BE USED AS AN ELBOW AT A TERMINAL DEVICE.
- ALL DUCT SIZES ON PLANS ARE SIZED FOR HARD DUCT.
- AT THE TIME OF ROUGH INSTALLATION OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING AND COOLING 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.
- INSULATION FOR INTERIOR DUCT: INSULATE ALL RIGID SUPPLY AND RETURN DUCTS WITH 1-1/2" THICK, 3/4 PCF DENSITY Owens CORNING SOFTR OR EQUAL, FIBERGLASS DUCT WRAP, TYPE T5, WITH FOIL REINFORCED KRAFT VAPOR RETARDER FACING BUTT JOINT PIECES WITH 2" MINIMUM TAP FLAP OVERLAPPING. WHEN IN CONDITIONED SPACE, DUCTS SHALL HAVE R-42 INSULATION. WHEN IN UNCONDITIONED SPACE, DUCTS SHALL HAVE R-8.0 INSULATION.

INSULATION FOR EXTERIOR DUCT: SEAL ALL METAL JOINTS PER SMACNA 4 CEC, LINE WITH 2" CERTAINTED TOUGHGUARD, RIGID LINER BOARD, TAPE ALL INSULATED INTERIOR JOINTS. INSULATION SHALL BE PROTECTED FROM DAMAGE BY MOISTURE, UV AND PHYSICAL ABRASION. INSULATION EXPOSED TO WEATHER SHALL BE SUITABLE FOR OUTDOOR SERVICE, PROTECTED BY ALUMINUM, SHEET METAL, PAINTED CANVAS, OR PLASTIC COVER. CELLULAR FOAM INSULATION SHALL BE PROTECTED AS ABOVE OR PAINTED WITH A COATING THAT IS WATER RETARDANT AND PROVIDES SHIELDING FROM SOLAR RADIATION. THIS APPLIES TO REFRIGERANT LINE SETS AS WELL. DUCTS SHALL HAVE R-8.0 INSULATION.
- DUCT LINER: LINE ALL RIGID SUPPLY AND RETURN DUCT DROPS FOR A MINIMUM OF 10' FROM THE UNIT WITH 1" THICK OWENS CORNING QUIETER ACOUSTICS OR EQUAL ACOUSTIC DUCT LINER. INSTALL WITH 100% COVERAGE ADHESIVE COMPLYING WITH ASTM C 916, AND FURTHER APPLY TO BUTTED ENDS. MECHANICAL FASTENERS SHALL BE APPLIED 3" FROM CORNERS AND 12" OC BETWEEN CORNER FASTENERS. ALL DUCT DIMENSIONS ON PLANS ARE CLEAR DIMENSIONS. SEAL BUTT ENDS OF EXPOSED INSULATION IN THE DUCTS WITH MANUFACTURERS RECOMMENDED SEALANT OR ADHESIVE.
- CONTROLS: HEATING AND COOLING CONTROLS SHALL COMPLY WITH 2022 CEC, SUBCHAPTER 3, SECTION 1202. ALL CONTROLS AND CONTROL WIRING ARE NOT SPECIFICALLY SHOWN BUT ARE REQUIRED FOR A COMPLETE AND WORKABLE SYSTEM AND SHALL BE SUPPLIED BY THE CONTRACTOR AND INSTALLED AT NO ADDITIONAL COST TO THE OWNER.
- TESTING: ALL AIR SYSTEMS SHALL BE BALANCED BY A TRAINED MECHANICAL CONTRACTOR, USING AAEC, SMACNA, OR NEBB PROCEDURES. AIR QUANTITIES SHALL BE ADJUSTED TO NOT MORE THAN 10% ABOVE OR 0% BELOW THE QUANTITIES SHOWN ON THE DRAWINGS. CONTRACTOR SHALL SUBMIT A COMPLETE AIR BALANCE REPORT INDICATING, AS A MINIMUM, THE AIR DELIVERY FOR EACH DIFFUSER, THE FINAL OPERATING DATA FOR THE SYSTEMS AND THE AIR CONDITIONING UNITS.
- SUBMITTALS: SUBMIT FOR APPROVAL COPIES OF COMPLETE SUBMITTAL DATA ON SPECIFIED AND PROPOSED EQUIPMENT AND MATERIALS. SUBMITTALS SHALL INCLUDE EQUIPMENT SIZES, CAPACITY, MOTOR LOCATIONS, PERFORMANCE CURVES AND OTHER PERTINENT DATA. EACH SUBMITTAL SHALL INCLUDE IDENTIFICATION TAGS OR SYMBOLS TO MATCH THOSE ON DRAWINGS. PARTIAL SUBMITTALS OR SUBMITTALS WHICH ARE NOT MARKED WITH EQUIPMENT TAGS OR PERFORMANCE DATA WILL BE REJECTED. EQUIPMENT THAT IS NOT SUBMITTED IS TO BE USED AT THE CONTRACTORS OWN RISK REGARDLESS OF BRAND OR MODEL USED.
- EQUIPMENT IDENTIFICATION: PROVIDE PERMANENT ENGRAVED PLASTIC NAME PLATED FOR ALL EQUIPMENT INSTALLED, INDICATING THE PLAN DESIGNATION OF THE UNIT (AC-1, REF, ETC.) AND ALSO THE BUILDING AREA SERVED (CLASSROOMS 2-4, CONFERENCE ROOM, ETC.). STAMPED METAL TAPES APPLIED WITH SELF-CONTAINED ADHESIVE WILL NOT BE ACCEPTABLE. GLUE TO THE INSIDE COVER OF THE COMPRESSOR ACCESS PANEL, A COPY OF THE EQUIPMENT NAMEPLATE SUBMITTAL DATA.
- CONTRACTOR SHALL VERIFY ALL WORK CONDITIONS PRIOR TO COMMENCING WORK, INCLUDING, BUT NOT LIMITED TO: DIMENSIONS, EQUIPMENT, STRUCTURAL ELEMENTS AND MATERIALS INDICATED AS EXISTING, AS WELL AS THE COORDINATED INSTALLATION OF ALL NEW WORK, MATERIALS, EQUIPMENT, ETC. COORDINATE THE LOCATION OF ALL ROOF MOUNTED EQUIPMENT WITH THE STRUCTURAL ENGINEER.
- CONTRACTOR SHALL FIELD COORDINATE TERMINATION OF ENVIRONMENTAL AIR DUCT EXHAUST SO THAT THEY TERMINATE NOT LESS THAN 3 FEET FROM A PROPERTY LINE, 10 FEET FROM A FORCED AIR INLET, 10 FEET ABOVE A PUBLIC WALKWAY, AND 3 FEET FROM OPENINGS INTO THE BUILDING, AND DO NOT DISCHARGE ONTO A PUBLIC WALKWAY (2022 CMC 902.2.1).
- SUBMITTAL NOTE: MECHANICAL SYSTEMS DESIGN REFLECT EQUIPMENT SPECIFIED. WHEN EQUIPMENT SUBSTITUTIONS OCCUR AND DUCT DESIGN, DUCT DROPS, GAS INPUT AND ELECTRICAL SERVICE VARIES FROM THAT SPECIFIED, THEN IT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR FOR ALL ADDITIONAL ENGINEERING FEES WHEN SUBSTITUTED EQUIPMENT REFLECT A REVISION OR CHANGE ON OUR DRAWINGS.
- INSTALLATION INSTRUCTIONS FOR ALL LISTED EQUIPMENT SHALL BE MADE AVAILABLE TO THE BUILDING INSPECTOR AT THE TIME OF INSPECTION.
- ONLY PERMITTED PLANS SHALL BE USED FOR CONSTRUCTION OR BIDDING.

GRILLE SCHEDULE

SYMBOL	DESCRIPTION
	SUPPLY GRILLE, TITUS, MODEL MCD, MODULAR CORE DIFFUSER WITH ROUND NECK, BORDER TYPE 1 FOR SURFACE MOUNT APPLICATIONS, BORDER TYPE 3 FOR LAY-IN/T-BAR MOUNT APPLICATIONS.
	RETURN GRILLE, TITUS, MODEL 50F, EGGORATE RETURN GRILLE, BORDER TYPE 1 FOR SURFACE MOUNT APPLICATIONS, BORDER TYPE 3 FOR LAY-IN/T-BAR MOUNT APPLICATIONS.
	NECK SIZE (INCHES X INCHES) AIR FLOW (CFM)
NOTE: SUBSTITUTIONS ALLOWED FOR MANUFACTURERS AND MODELS SIMILAR IN QUALITY AND PERFORMANCE. GRILLES SHALL BE SIZED FOR NOISE CRITERIA (NC) NOT TO EXCEED 20.	

EQUIPMENT SCHEDULE

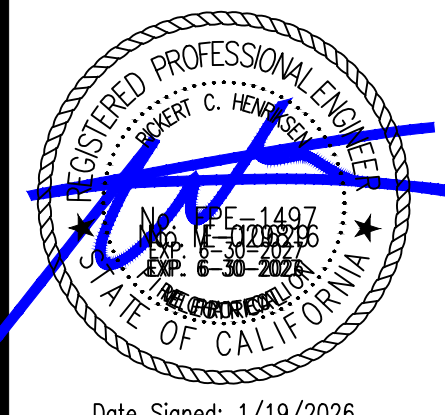
SYMBOL	DESCRIPTION
	COOLING CAPACITIES ARE BASED AT 105°F. AMB, 80°F. DB, 61°F. WB, ENTERING AIR TEMPERATURE. HEATING CAPACITIES ARE BASED AT 30°F. SUBSTITUTIONS ALLOWED FOR MANUFACTURERS AND MODELS SIMILAR IN QUALITY AND CAPACITY. PROVIDE MERV 13 FILTERS IN ALL COOLING AND HEATING EQUIPMENT. ***FAULT DETECTION AND DIAGNOSTIC CAPABILITY IS REQUIRED FOR ALL NEW DX EQUIPMENT PER CALIFORNIA TITLE 24 SECTION 1202. TRANE MODEL NO.: USC036H3RBA OR EQUAL, NOMINAL 3 TON UNIT. EFFICIENCY: 14.3 SEER, 12.0 EER, 8.00 HSPF 13.4 SEER2, 10.6 EER2, 12.0 HSPF2 33,300 BTUH TOTAL COOLING CAPACITY: 29,300 BTUH SENSIBLE COOLING CAPACITY: 28,900 BTUH INTEGRATED HEATING CAPACITY: 1200 CFM AT 0.1" S.P. AIR FLOW SETTING: 230 V/3 PH/60 HZ ELECTRICAL SERVICE: 15.00 RLA COMPRESSOR: 5.10 FLA EVAPORATOR FAN MOTOR: 110 FLA CONDENSER FAN MOTOR: 6 KW HEATER STRIP MCA: 26 MOCP: 40 WEIGHT: 185 LBS WITH CURB. TRANE MODEL NO.: USC060H3RBA OR EQUAL, NOMINAL 5 TON UNIT. EFFICIENCY: 14.3 SEER, 12.3 EER, 8.20 HSPF 13.4 SEER2, 10.6 EER2, 12.0 HSPF2 61,000 BTUH TOTAL COOLING CAPACITY: 48,800 BTUH SENSIBLE COOLING CAPACITY: 46,100 BTUH INTEGRATED HEATING CAPACITY: 2000 CFM AT 0.1" S.P. AIR FLOW SETTING: 230 V/3 PH/60 HZ ELECTRICAL SERVICE: 17.50 RLA COMPRESSOR: 11.50 FLA EVAPORATOR FAN MOTOR: 1.60 FLA CONDENSER FAN MOTOR: 130 FLA 6 KW HEATER STRIP MCA: 31 MOCP: 45 WEIGHT: 1071 LBS WITH CURB. ROOF EXHAUST FAN GREENHECK MODEL NO.: 200 CFM AT 0.5 S.P., 1504 RPM AIR FLOW SETTING: 230 V/1 PH/60 HZ, 1/6 HP ELECTRICAL SERVICE: 40 LBS WEIGHT: 40 LBS FURNISH: ROOF CURB, BIRDSCREEN, BACKDRAFT DAMPER, DISCONNECT SWITCH, INHERENT MOTOR PROTECTION. GREENHECK MODEL NO.: 6P-B150 OR EQUAL AIR FLOW SETTING: 150 CFM AT 0.325 S.P., 1050 RPM AIR FLOW MAX: 120 V/1 PH/60 HZ, 128 WATTS ELECTRICAL SERVICE: WITH ROOM LIGHTS CONTROL: 10 LBS WEIGHT: BACKDRAFT DAMPER, INTERCONNECTING DUCT, INHERENT THERMAL MOTOR PROTECTION, ROOFCAP. GREENHECK MODEL NO.: 6P-B300 OR EQUAL AIR FLOW SETTING: 15 CFM AT 0.325 S.P., 100 RPM AIR FLOW MAX: 120 V/1 PH/60 HZ, 50 WATTS ELECTRICAL SERVICE: WITH ROOM LIGHTS CONTROL: 10 LBS WEIGHT: BACKDRAFT DAMPER, INTERCONNECTING DUCT, INHERENT THERMAL MOTOR PROTECTION, ROOFCAP. HOOD, TOP DISCHARGE, 30" WIDE, STAINLESS FINISH GE MODEL NO.: UVU53042F56 AIR FLOW MAX: 440 CFM AIR FLOW SETTING: 120 V/1 PH/60 HZ ELECTRICAL SERVICE: 21" DEEP, 30" WIDE, 18" HIGH HOOD SIZE: 8" DUCT CONNECTION SIZE: COMPLETE WITH ALL MOUNTING HARDWARE, WASHABLE ALUMINUM FILTER, DUCT CONNECTOR WITH BUILT-IN DAMPER, INTERCONNECTING DUCT, ROOFCAP.
	
	
	
	
	

INDOOR OPENING SIZE

INDOOR OPENING SIZE (2019 CMC 1015(1)): COMBINING SPACES ON THE SAME STORY, EACH OPENING SHALL HAVE A FREE AREA OF NOT LESS THAN 1 SQUARE INCH PER 1000 BTU/H OF THE TOTAL INPUT RATING OF APPLIANCES IN THE SPACE, BUT NOT LESS THAN 100 SQUARE INCHES. ONE OPENING SHALL COMMENCE WITHIN 12 INCHES OF THE TOP, AND ONE OPENING SHALL COMMENCE WITHIN 12 INCHES OF THE BOTTOM, OF THE ENCLOSURE. THE DIMENSION OF AIR OPENINGS SHALL BE NOT LESS THAN 3 INCHES.

MINIMUM REQUIRED FREE AREA = (1 SQ IN/1000 BTU/H) X 55,000 BTU/H = 55 SQ IN

FREE AREA TO BE INSTALLED = 12"x10"x0.5"(LOUVER FREE AREA) = 60 SQ IN



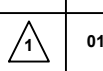
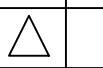
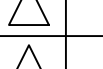
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JOB TITLE:

CONSTRUCTION DOCUMENTS FOR:
**YOLO COUNTY -
ROADS BUILDING RENOVATIONS**
284 W. BEAMER STREET
WOODLAND, CA
CLIENT: YOLO COUNTY GENERAL SERVICES DEPARTMENT
ADDRESS: 120 W. MAIN STREET., SUITE D, WOODLAND CA

REVISIONS:

DATE:	DESCRIPTION:
 01/19/2026	TENANT REVISIONS
	
	
	
	

DATE	00/00/25
DRAWN	MUJS
JOB NO.	23028
SHEET	

OF - SHEETS
M1.1

F
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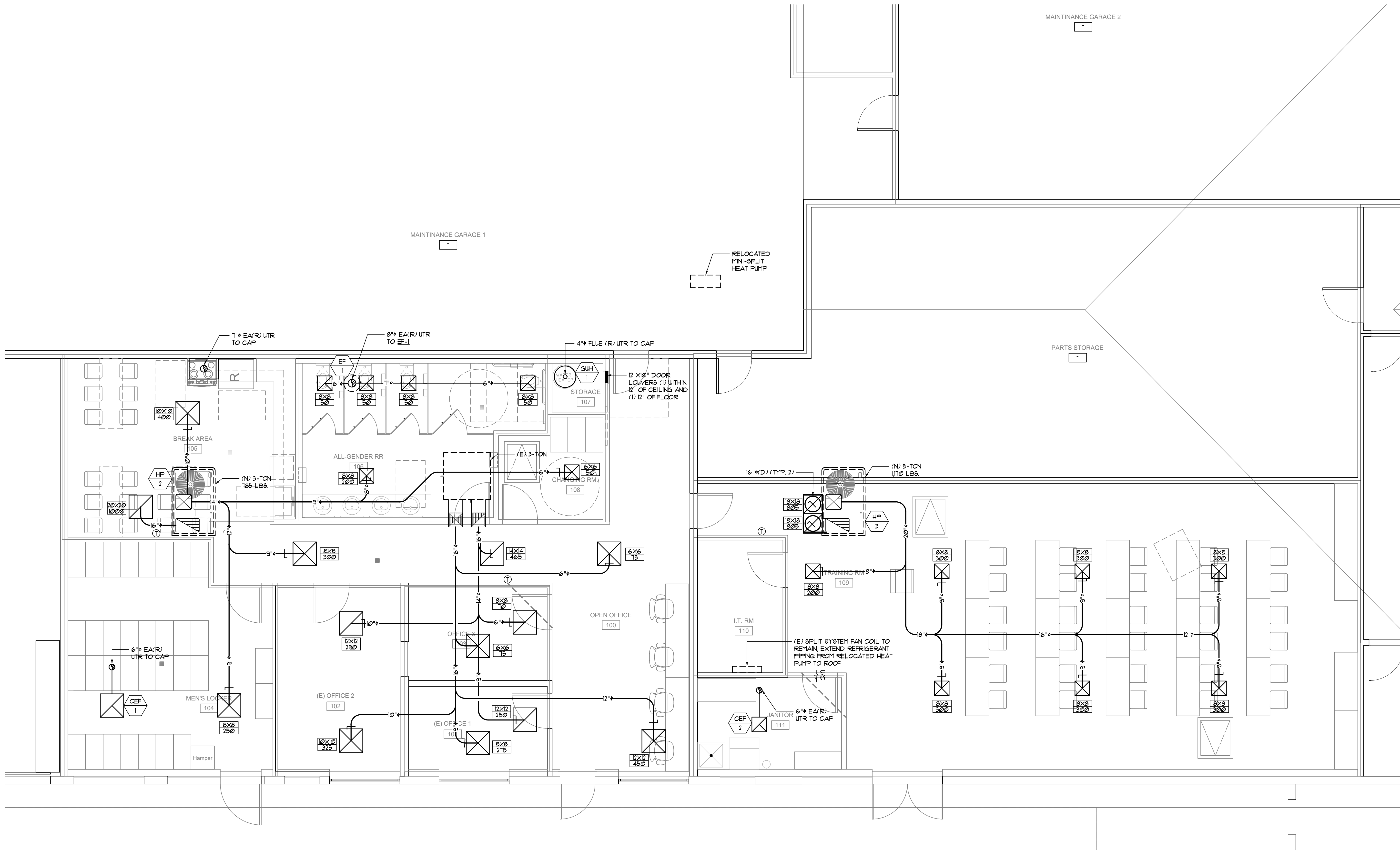
E

D

C

B

A



Date Signed: 1/19/2026



JOB TITLE:

CONSTRUCTION DOCUMENTS FOR:
**YOLO COUNTY -
ROADS BUILDING RENOVATIONS**
284 W. BEAMER STREET
WOODLAND, CA
CLIENT: YOLO COUNTY GENERAL SERVICES DEPARTMENT
ADDRESS: 120 W. MAIN STREET., SUITE D, WOODLAND CA

REVISIONS:

DATE:	DESCRIPTION:
01/19/2026	TENANT REVISIONS

DATE	00/00/25
DRAWN	MU/JS
JOB NO.	23028
SHEET	

1
M2.1
OF SHEETS

F
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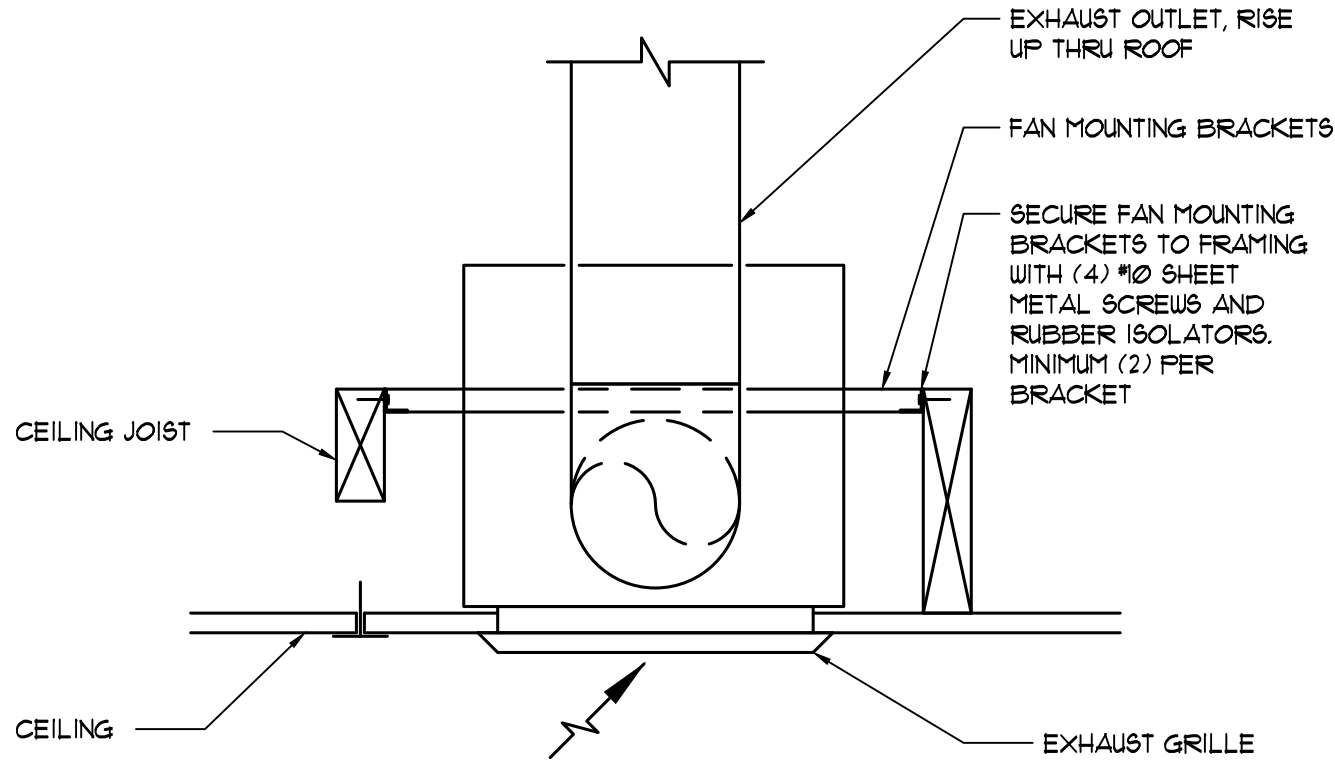
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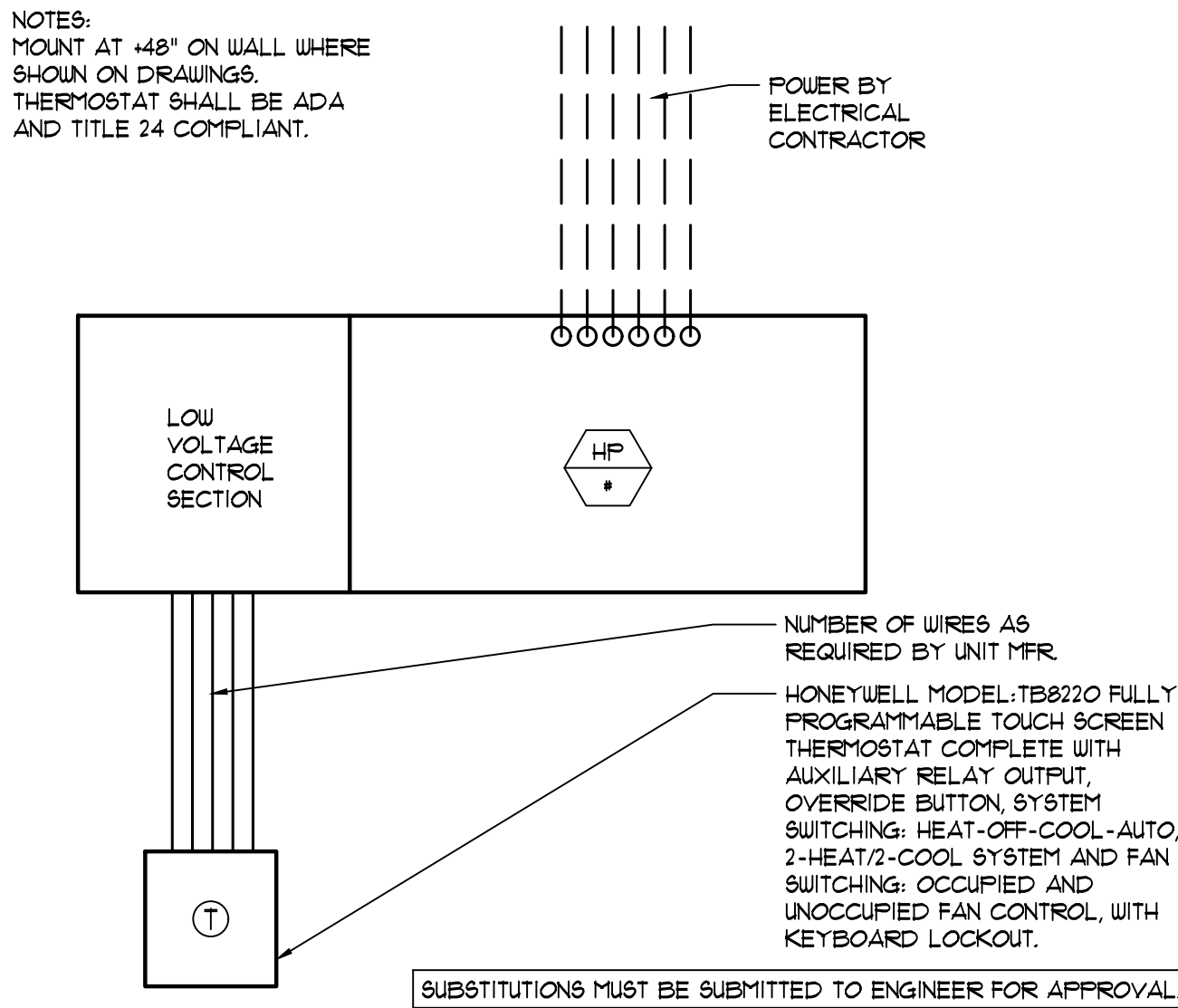
A



CEILING EXHAUST FAN

SCALE: NONE

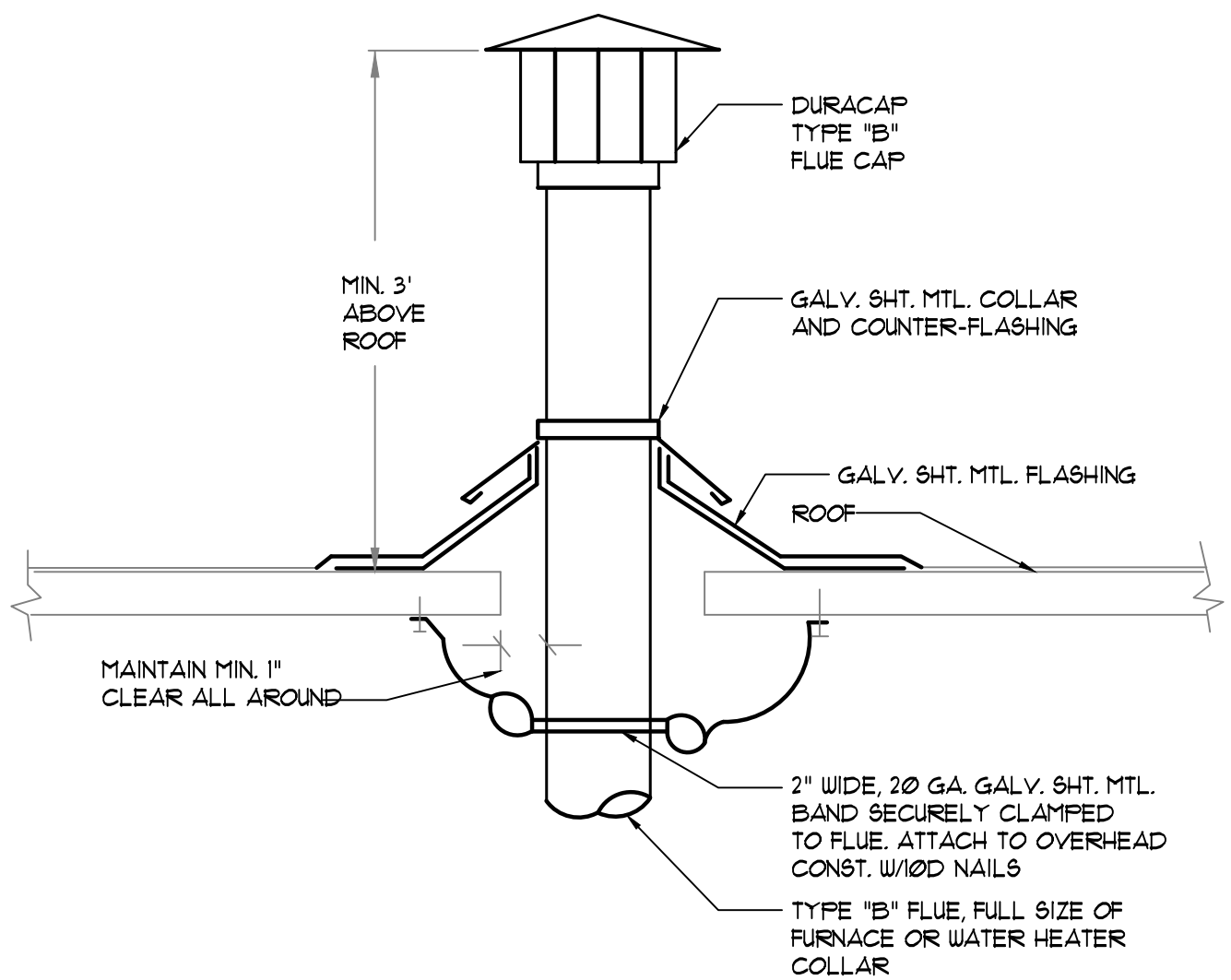
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M31



HEAT PUMP CONTROLS WIRING

SCALE: NONE

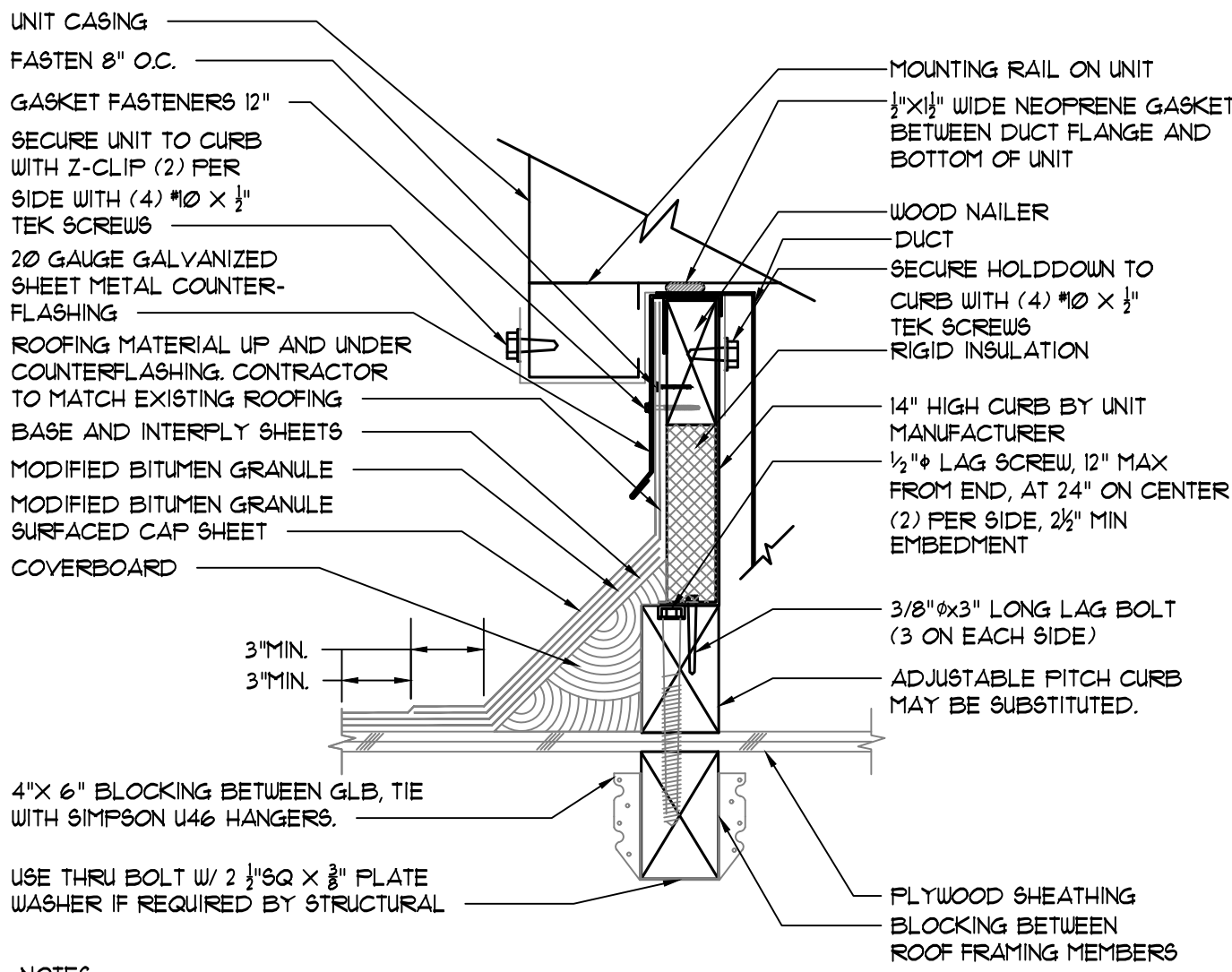
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M31



FLUE THRU ROOF

SCALE: NONE

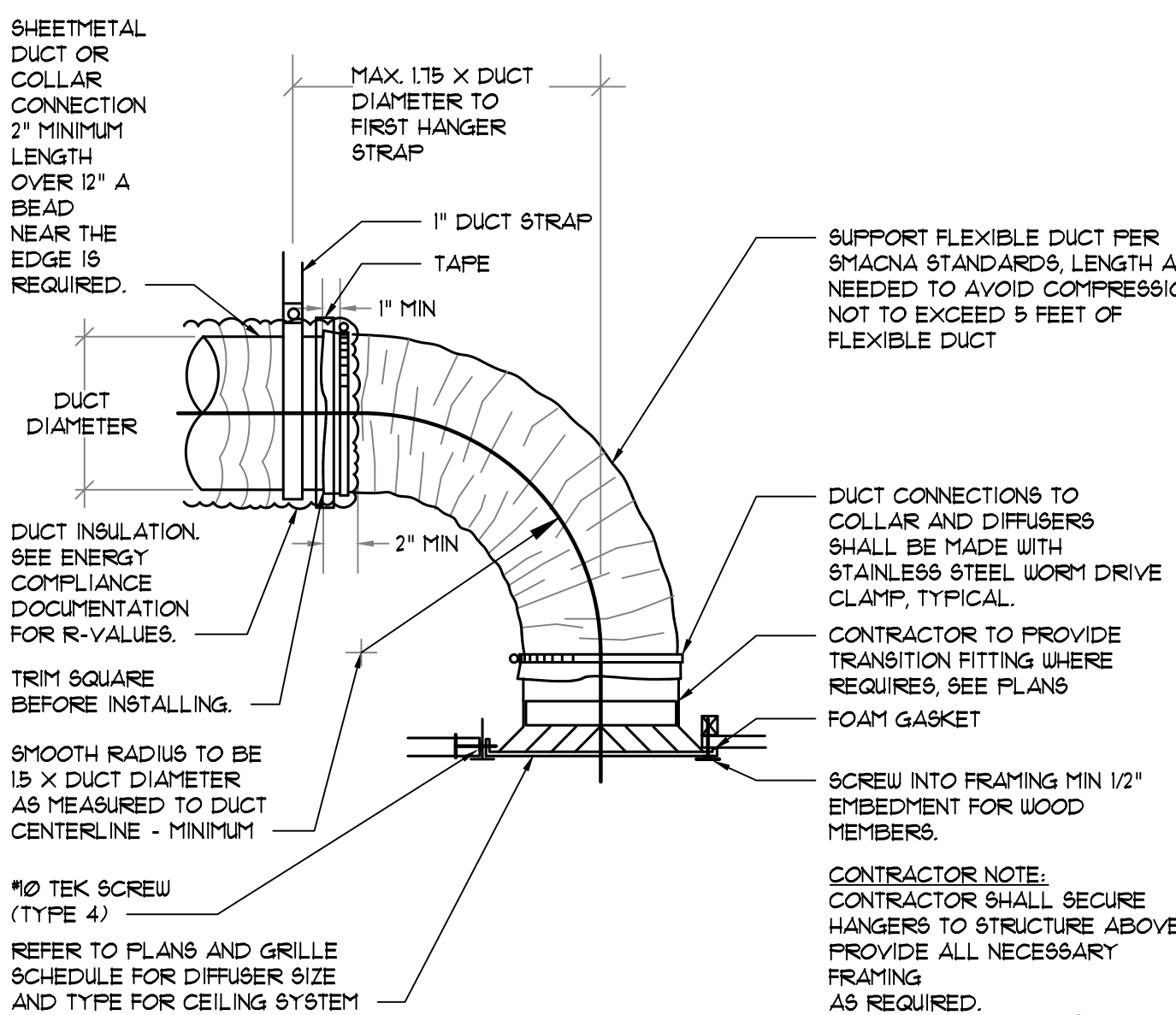
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M31



AC UNIT CURB

SCALE: NONE

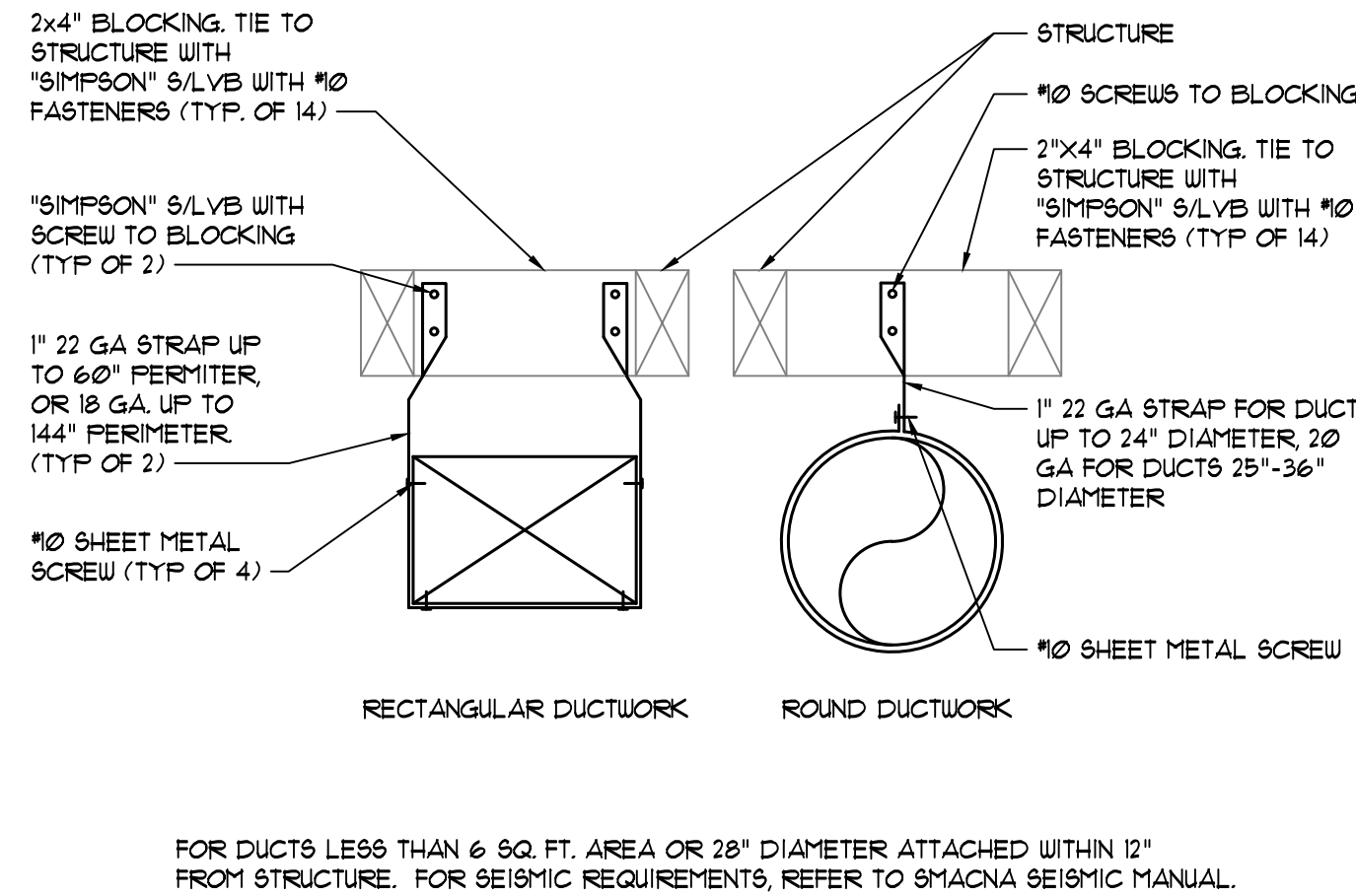
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M31



CEILING DIFFUSER

SCALE: NONE

2
M31



DUCT SUPPORT

SCALE: NONE

3
M31



Date Signed: 1/19/2026



JOB TITLE:

CONSTRUCTION DOCUMENTS FOR:
**YOLO COUNTY -
ROADS BUILDING RENOVATIONS**
284 W. BEAMER STREET
WOODLAND, CA
CLIENT: YOLO COUNTY GENERAL SERVICES DEPARTMENT
ADDRESS: 120 W. MAIN STREET., SUITE D, WOODLAND CA

REVISIONS:

DATE:	DESCRIPTION:
01/19/2026	TENANT REVISIONS

DATE	00/00/25
DRAWN	MU/JS
JOB NO.	23028
SHEET	
OF	M3.1 SHEETS

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD		NRCC-PHF-E
Nonresidential Performance Compliance Method		(Page 13 of 14)
M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTP).		
Building Component	Form/Title & System Name(s)	
Mechanical	NRCC-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with HP-2.3-ton and HP-3.3 (5-ton).	
Mechanical	NRCC-MCH-03-A - Constant Volume Single Zone HVAC HP-2.3-ton and HP-3.3 (5-ton).	
N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online.		
There are no Certificates of Verification applicable to this project.		
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-3045-0925-0779		

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD		NRCC-PHF-E									
Nonresidential Performance Compliance Method		(Page 9 of 14)									
G7A. FENESTRATION ASSEMBLY SUMMARY (NONRESIDENTIAL)											
01	02	03	04	05	06	07	08	09			
Assembly Name	Fenestration Type / Product Type / Frame Type	Certification Method ¹	Assembly Method	Area (ft ²)	Overall U-factor	Overall SHGC	Overall VT	Status ²			
Single Metal Clear	Vertical fenestration Fixed window Metal	Default: 110.6	Site built	72	1.19	0.83	0.77	E			
¹ Notes: Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6.A and Table 110.6.B. Center of Glass (COG) values are for the glass only, determined by the manufacturer, and are shown for ease of verification. Site built fenestration values are calculated per Nonresidential Appendix NAE and are used in the analysis. ² Status: N - New, A - Altered, E - Existing											
H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRS, ECONOMIZERS ETC.)											
01	02	03	04	05	06	07	08	09	10	11	12
Equipment Name	Equipment Type	Qty	Total Heating Output (kBtu/h)	Stag Heat Output (kBtu/h)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency	Energy Star Type (if present)	Status ¹
HP-1 (E) (3-ton)	Single Zone Heat Pump (DHP) Air System	1	121.65	0	HSPF	7.8	37.73	EER SEER	11.1 13.2	No Economizer	E
HP-2.3-ton	Single Zone Heat Pump (DHP) Air System	1	30.1	0	HSPF	8	37.73	EER SEER	12.1 14.3	No Economizer	N
HP-3 (5-ton)	Single Zone Heat Pump (DHP) Air System	1	48.64	0	HSPF	8.2	58.57	EER SEER	12.3 14.3	No Economizer	N
¹ Status: N - New, A - Altered, E - Existing											
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-3045-0925-0779											

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD		NRCC-PHF-E	
Nonresidential Performance Compliance Method		(Page 5 of 14)	
C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS¹			
Non-Regulated Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV) ¹
Receptacle	73.7	73.7	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE - NON-REGULATED COMPONENTS)	303.37	274.79	26.58 (8.8%)
¹ Notes: This table is not used for Energy Code Compliance.			
C6. 'ADOPT CODE' QUALIFICATIONS ☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2			
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-3045-0925-0779			

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD		NRCC-PHF-E
Nonresidential Performance Compliance Method		(Page 1 of 14)
Project Name: Yolo County Roads Building		Date Prepared: 2025-09-08
A. General Information		
1 Project Name	Yolo County Roads Building	
2 Run Title	Table 24 Analysis	
3 Project Location	204 W. Beamer St.	
4 City	Woodland	5 Standards Version
6 Zip code	95695	7 Compliance Software (version)
8 Climate Zone	12	9 Building Orientation (deg)
10 Building Type(s)	* Nonresidential	11 Weather File
12 Project Scope	* Existing addition and alteration	13 Number of Dwelling Units
14 Total Conditioned Floor Area in Scope (ft ²)	3275	15 Total # of hotel/motel rooms
16 Total Unconditioned Floor Area (ft ²)	0	17 Fuel Type
18 Nonresidential Conditioned Floor Area	3275	19 Total # of Stories (Habitable Above Grade)
20 Residential Conditioned Floor Area	0	
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-3045-0925-0779		

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD		NRCC-PHF-E
Nonresidential Performance Compliance Method		(Page 14 of 14)
Documentation Author's Declaration Statement I, certify that this Certificate of Compliance documentation is accurate and complete.		
Documentation Author Name:	Signature Date:	Documentation Author Signature:
Company: Sacramento Engineering Consultants	CEA/HERS Certification Identification (if applicable):	
Address:	Phone:	
City/State/Zip:		
Responsible Person's Declaration Statement I certify the following under penalty of perjury, under the law 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 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 understand that a registered 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, and I will take the necessary steps to accomplish this requirement. 6. I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy, and I will take the necessary steps to accomplish these requirements.		
Responsible Designer Name: Robert Henrickson	Responsible Designer Signature:	
Company: Sacramento Engineering Consultants	Date Signed:	
Address: 10555 Old Placerville Road	License #: M022816	
City/State/Zip: Sacramento, CA 95827	Title:	
Phone: (916) 368-4468	Scope:	
Responsible Designer Name: Robert Henrickson	Responsible Designer Signature:	
Company: Sacramento Engineering Consultants	Date Signed:	
Address: 10555 Old Placerville Road	License #: M022816	
City/State/Zip: Sacramento, CA 95827	Title:	
Phone: (916) 368-4468	Scope:	
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-3045-0925-0779		

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD		NRCC-PHF-E										
Nonresidential Performance Compliance Method		(Page 10 of 14)										
H3. NONRESIDENTIAL / COMMON USE AREA PAN SYSTEMS SUMMARY												
01	02	03	04	05	06	07	08	09	10	11	12	13
Name or Item Tag	Qty	Design OA CFM	CFM	Power	Power Units	Control	Fan Type	CFM	Power	Power Units	Control	Status ¹
HP-1 (E) (3-ton)	1	121.65	0.4	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N/A	N
HP-2.3-ton	1	30.1	0.4	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N/A	N
HP-3 (5-ton)	1	48.64	0.8	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N/A	N
¹ Status: N - New, A - Altered, E - Existing												
H6. SYSTEM SPECIAL FEATURES												
01	02	03	04									
System Name	Equipment Type	Interlocks per ASHRAE ¹	Other Special Features and Controls									
Underlaid Floor ¹ - SHW	Service Hot Water	N/A	Fixed Temperature Control									
¹ Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E. ² * No = Interlocks are provided, No = Interlocks are not provided, N/A means no operable openings.												
H3. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION												
01	02	03	04	05	06	07						
Zone Name	Ventilation Function	# of People	Supply OA CFM	Exhaust CFM	Conditioned Area (ft ²)	DCV or Occupant Sensor Controls, or Both						
1-Office Zone	Office - Office space	4.05	121.65	0	81.1	N/A						
2-Breakroom	General - Break rooms	36.5	547.5	0	105	N/A						
3-Conference/meeting	Education - Lecture/postsecondary classroom	34.23	520.22	0	1369	N/A						
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-3045-0925-0779												

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD		NRCC-PHF-E				
Nonresidential Performance Compliance Method		(Page 6 of 14)				
C7. ENERGY USE SUMMARY						
Energy Component	Standard Design Site (kBtu/h)	Proposed Design Site (kBtu/h)	Margin (kBtu/h)	Standard Design Site (kBtu/h)	Proposed Design Site (kBtu/h)	Margin (kBtu/h)
Space Heating	0.3	2.5	-2.2	3.4	---	---
Space Cooling	6	5.7	0.3	---	---	---
Indoor Fans	10.9	6.5	4.4	---	---	---
Heat Rejection	---	---	---	---	---	---
Pumps & Misc.	---	---	---	---	---	---
Domestic Hot Water	3.3	---	---	---	23.7	---
Indoor Lighting	3.9	3.9	0	---	---	---
Flexibility	---	---	---	---	---	---
EFFICIENCY TOTAL	24.4	18.6	5.8	3.4	23.7	-20.3
Photovoltaics	---	---	---	---	---	---
Batteries	---	---	---	---	---	---
ENERGY USE SUBTOTAL	24.4	18.6	5.8	3.4	23.7	-20.3
Receptacle	9.7	9.7	0	---	---	---
Process	---	---	---	---	---	---
Other Ltg	---	---	---	---	---	---
Process Motors	---	---	---	---	---	---
ENERGY USE TOTAL	34.1	28.3	5.8	3.4	23.7	-20.3
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-3045-0925-0779						

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD		NRCC-PHF-E
Nonresidential Performance Compliance Method		(Page 2 of 14)
A. PROJECT SUMMARY Table A shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within the permit application.		
Building Components Complying via Performance		
Envelope (See Table G)	Roofes Performance	Performance
Mechanical (See Table H)	Roofes Performance	Performance
Domestic Hot Water (See Table I)	Roofes Performance	Performance
Lighting (Indoor Conditioned, see Table K)	Roofes Performance	Performance
Building Components Complying Prescriptively		
Envelope (See Table G)	Roofes Performance	Performance
Mechanical (See Table H)	Roofes Performance	Performance
Domestic Hot Water (See Table I)	Roofes Performance	Performance
Lighting (Indoor Conditioned, see Table K)	Roofes Performance	Performance
Building Components Complying with Mandatory Measures		
Envelope (See Table G)	Roofes Performance	Performance
Mechanical (See Table H)	Roofes Performance	Performance
Domestic Hot Water (See Table I)	Roofes Performance	Performance
Lighting (Indoor Conditioned, see Table K)	Roofes Performance	Performance
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-3045-0925-0779		

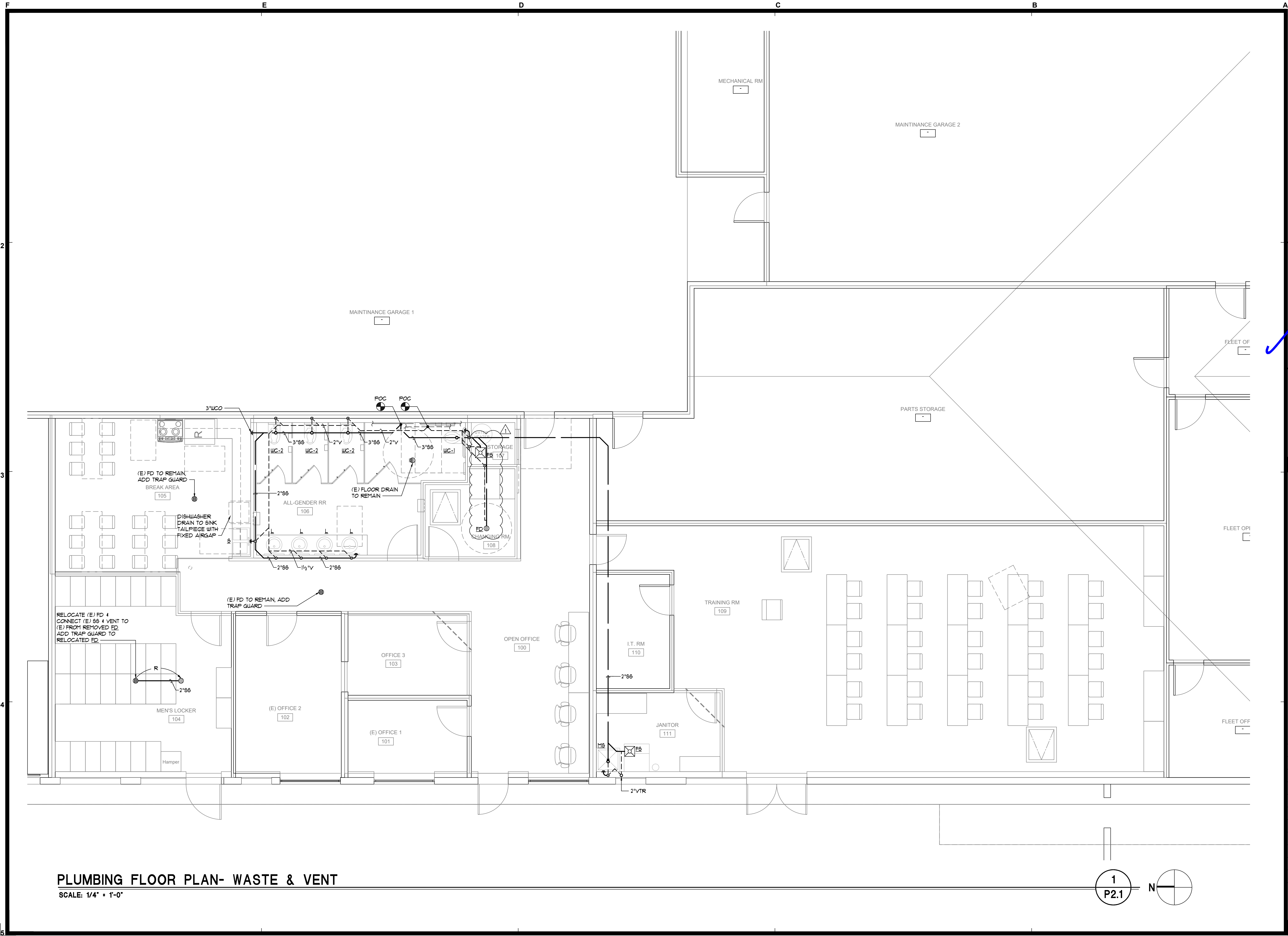
CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD		NRCC-PHF-E											
Nonresidential Performance Compliance Method		(Page 11 of 14)											
H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY													
01	02	03	04	05	06	07	08	09	10	11	12		
System ID	System Type	Qty	Rated Capacity (kBtu/h)	Design	Min. Ratio	Power	Power Units	Fan	Cycles	VSD			
1-Office Zone-Term	Uncontrolled	1	N/A	N/A	1,200	N/A	0	N/A	N/A	N/A	☐		
2-Breakroom-Term	Uncontrolled	1	N/A	N/A	1,200	N/A	0	N/A	N/A	N/A	☐		
3-Conference/meeting-Term	Uncontrolled	1	N/A	N/A	2,000	N/A	0	N/A	N/A	N/A	☐		
H1. WATER HEATER EQUIPMENT SUMMARY													
01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Heater Element Type	Tank Type	Qty	Rated Input (kW)	Efficiency	Standby Loss Fraction	14th Eff. Rating or Flow Rate (gph)	Heat Pump Type	Tank Location or Ambient Condition				
Bradford White U02250H5632	Natural Gas	Storage	1	48	55	0.63	UEF	N/A	N/A	80	N/A	N/A	
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-3045-0925-0779													

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD		NRCC-PHF-E	
Nonresidential Performance Compliance Method		(Page 7 of 14)	
C8. ENERGY USE INTENSITY (EUI)			
Standard Design (kBtu/ft ² / yr)	Proposed Design (kBtu/ft ² / yr)	Margin (kBtu/ft ² / yr)	Margin Percentage
GROSS EUI ¹	36.56	36.72	-0.16
NET EUI ¹	36.56	36.72	-0.16
¹ Notes: Gross EUI is Energy Use Total (not including PV)/Total Building Area. Net EUI is Energy Use Total (including PV)/Total Building Area.			
G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)			
01	02	03	04
Opaque Surfaces & Orientation	Total Gross Surface Area (ft ²)	Total Fenestration Area (ft ²)	Window to Wall Ratio (%)
North-Facing ¹	0	0	0
East-Facing ²	0	0	0
South-Facing ³	0	0	0
West-Facing ⁴	1066	72	6.75
Total	1066	72	6.75
Roof	3275	0	0
G4. NONRESIDENTIAL AIR BARRIER			
01	02		
Building Story Name	Air Barrier		
Cor-Floor 1	No air barrier		
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-3045-0925-0779			

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD		NRCC-PHF-E
Nonresidential Performance Compliance Method		(Page 3 of 14)
C1. COMPLIANCE SUMMARY		
COMPLIES¹		
Time Dependent Valuation (TDV)		
Standard Design	229.67	n/a
Proposed Design	203.09	n/a
Compliance Margins	26.58	n/a
Source Energy Use		
Standard Design	229.67	n/a
Proposed Design	203.09	n/a
Compliance Margins	26.58	n/a
¹ Efficiency measures include improvements like a better building envelope and more efficient equipment. ² Compliance Totals include efficiency, photovoltaics and batteries. ³ New Construction, Complete Addition Scope: Building complies when all efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded. ⁴ Existing, Addition and Alteration Scope: Building complies when efficiency compliance margin is greater than or equal to zero and unmet load hour limits are not exceeded.		
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-3045-0925-0779		

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD		NRCC-PHF-E			
Nonresidential Performance Compliance Method		(Page 12 of 14)			
K1. INDOOR CONDITIONED LIGHTING GENERAL INFO					
01	02	03	04	05	06
Occupancy Type ¹	Conditioned Floor Area ² (ft ²)	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Additional (Excess) Allowance	Area Category Postnotes (Watts)
Classroom, Lecture, or Training Instructional	1369	821.4	0	0	0
Lounge	1095	602.25	0	0	0
Office (250 square feet)	811	486.6	0	0	0
Building Total:	3275	1910.25	0	0	0
¹ See Table 140.1-C. ² See NRCC-LTH-E for unconditioned spaces. ³ Lighting information for existing spaces modeled is not included in this table.					
K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROL See NRCC-LTH-E for mandatory controls.					
L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online.					
Building Component	Form/Title				
Mechanical	NRCC-MCH-E - For all buildings with Mechanical Systems				
Plumbing	NRCC-PLB-E - For all buildings with Plumbing Systems				
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-3045-0925-0779					

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD		NRCC-PHF-E
Non		



PLUMBING FLOOR PLAN- WASTE & VENT
SCALE: 1/4" = 1'-0"



Date Signed: 1/19/2026



JOB TITLE:

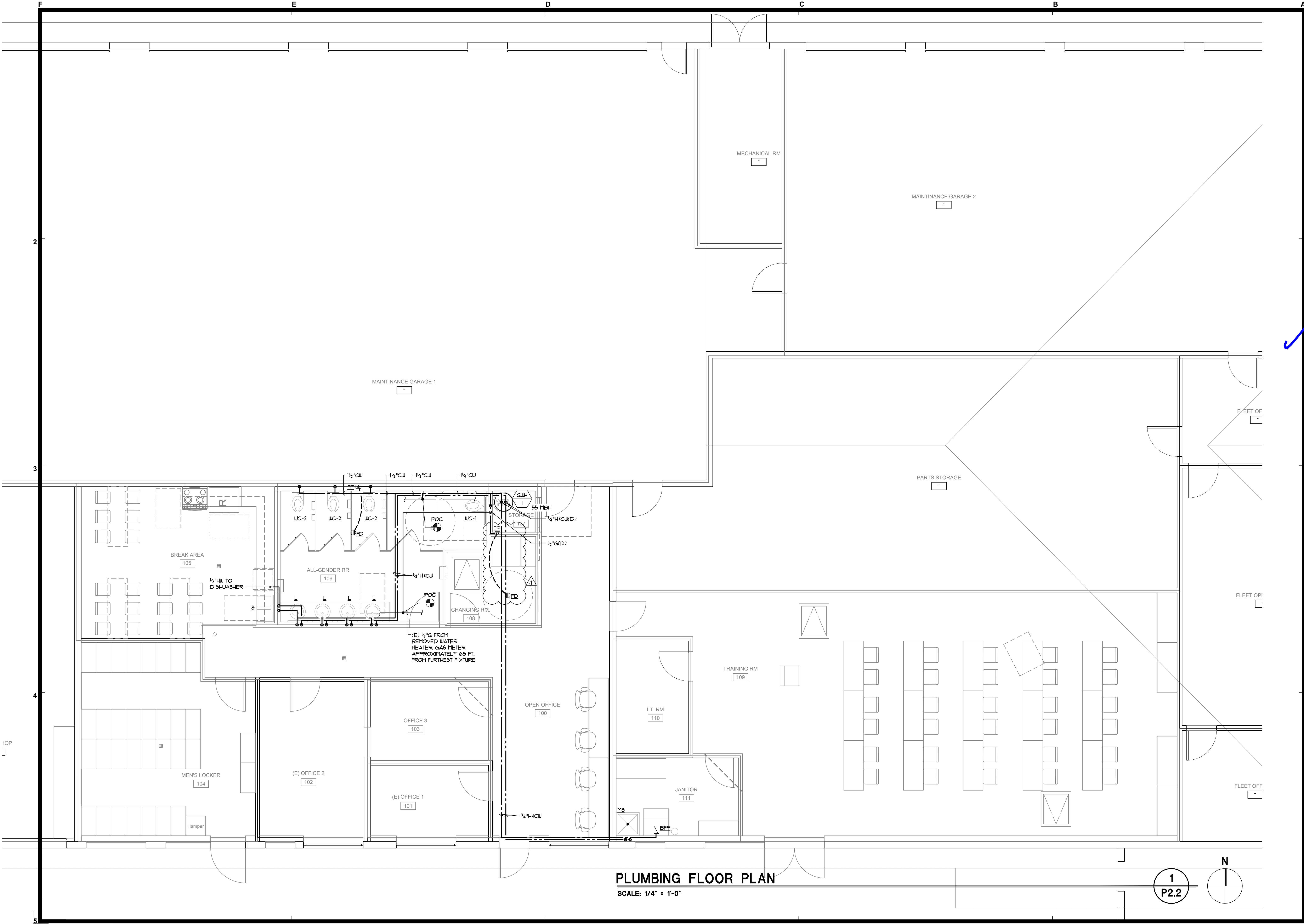
CONSTRUCTION DOCUMENTS FOR:
**YOLO COUNTY -
ROADS BUILDING RENOVATIONS**
284 W. BEAMER STREET
WOODLAND, CA
CLIENT: YOLO COUNTY GENERAL SERVICES DEPARTMENT
ADDRESS: 120 W. MAIN STREET., SUITE D, WOODLAND CA

REVISIONS:

DATE:	DESCRIPTION:
01/19/2026	TENANT REVISIONS

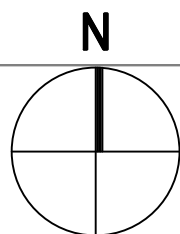
DATE	00/00/25
DRAWN	MU/JS
JOB NO.	23028
SHEET	

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P2.1
OF - SHEETS



PLUMBING FLOOR PLAN
SCALE: 1/4" = 1'-0"

1
P2.2



Date Signed: 1/19/2026



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OF - SHEETS
P2.2

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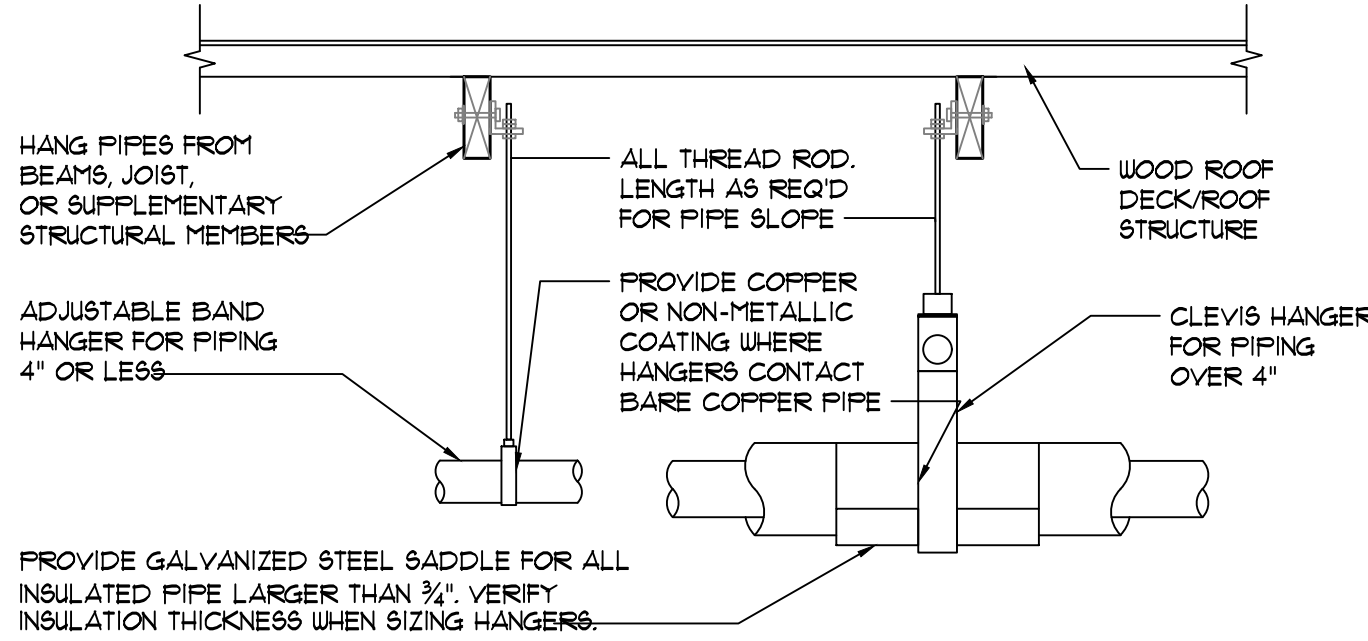
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D

C

B

A



- NOTES:
- DO NOT HANG PIPE LARGER THAN 3" FROM BOTTOM OF BEAMS, JOIST, OR SUPPLEMENTARY STRUCTURAL MEMBERS.
 - PIPING SHALL NOT BE SUPPORTED FROM THE ROOF DECK, JOIST BRIDGING OR OTHER PIPES.
 - PROVIDE UPPER ATTACHMENT AS REQUIRED FOR CASES NOT SHOWN HERE.
 - DO NOT INSTAL HANGER INSIDE INSULATION OR OTHERWISE PENETRATE VAPOR BARRIER.
 - DO NOT HANG ONE PIPE FROM ANOTHER EXCEPT IN CHASES.
 - TRAPEZE HANGERS MAY BE USED FOR MULTIPLE PARALLEL PIPES.
 - HANGER SPACING FOR PIPE SIZE AS FOLLOWS:

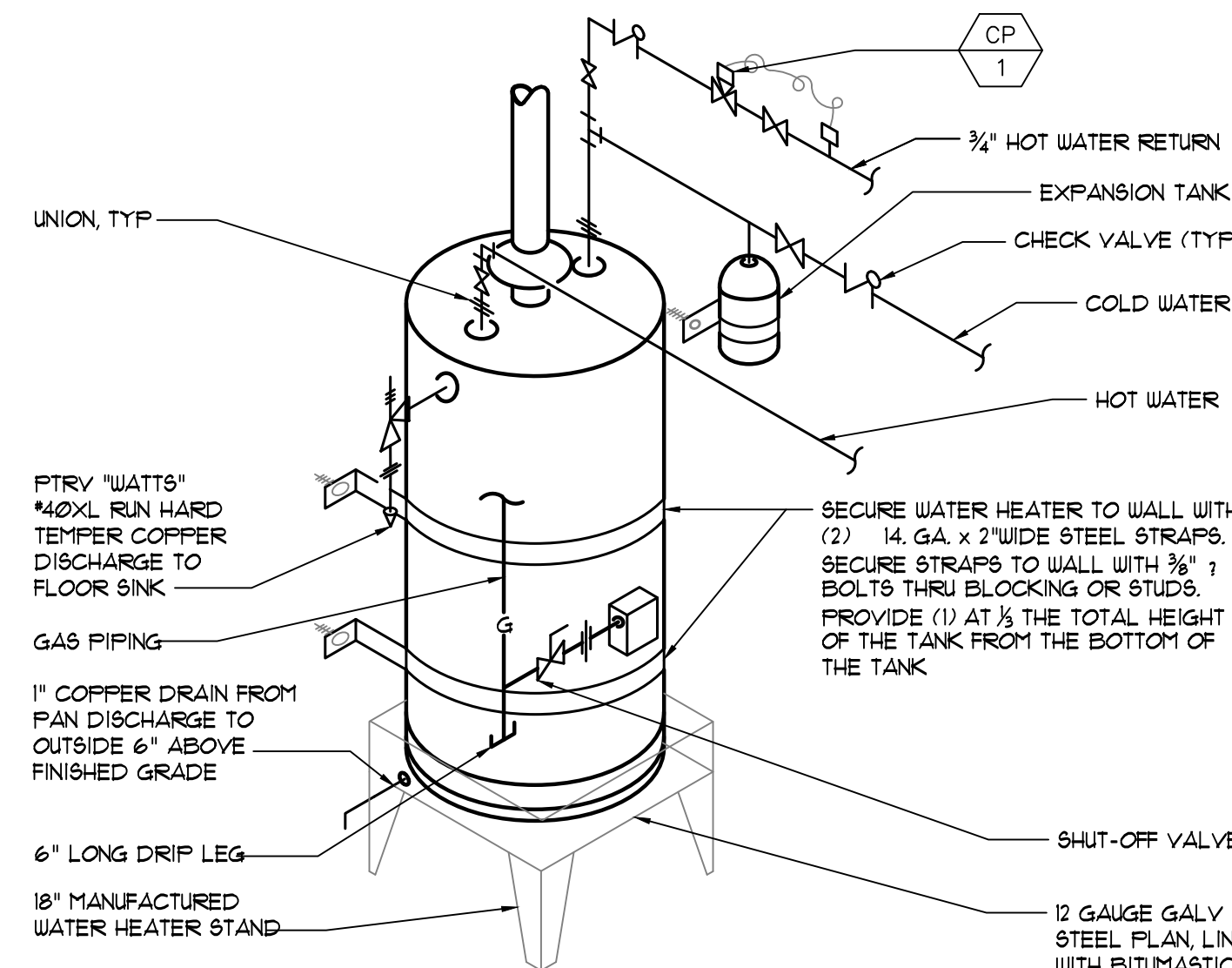
PIPE SIZE	4"	3"	2 1/2"	2"	1 1/2"	1"	3/4"	3/8"
COPPER PIPE	12'-0"	11'-0"	10'-0"	9'-0"	8'-0"	7'-0"	6'-0"	5'-0"
CAST IRON	10'-0" AND ONE NEAR ALL JOINTS							
STEEL	14'-0"	12'-0"	11'-0"	10'-0"	9'-0"	N/A	7'-0"	5'-0"
SCH. 40 PVC AND ABS	ALL SIZES 4'-0" AND ALLOW FOR EXPANSION EVERY 30'-0"							
CPVC	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	3'-0"	3'-0"
PEX	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	32"	32"

- LOCATE HANGERS AS CLOSE AS POSSIBLE TO TURNS AND TEES OF PIPE.
- PROVIDE SUPPLEMENTARY STEEL STRUTS BETWEEN JOISTS IF REQUIRED.
- LOCATE HANGERS TO TAKE LOAD OFF OF EQUIPMENT CONNECTIONS.
- ANCHOR WATER PIPE AGAINST SWAYING DUE TO CHANGES IN WATER VELOCITY.
- PROVIDE SEISMIC BRACING IF/AS REQUIRED BY LOCAL AUTHORITIES.
- CHAINS OR PERFORATED STRAP IRON OR STEEL IS NOT ACCEPTABLE.
- REFER TO CODES FOR FURTHER INFORMATION.

PIPE HANGERS

SCALE: NONE

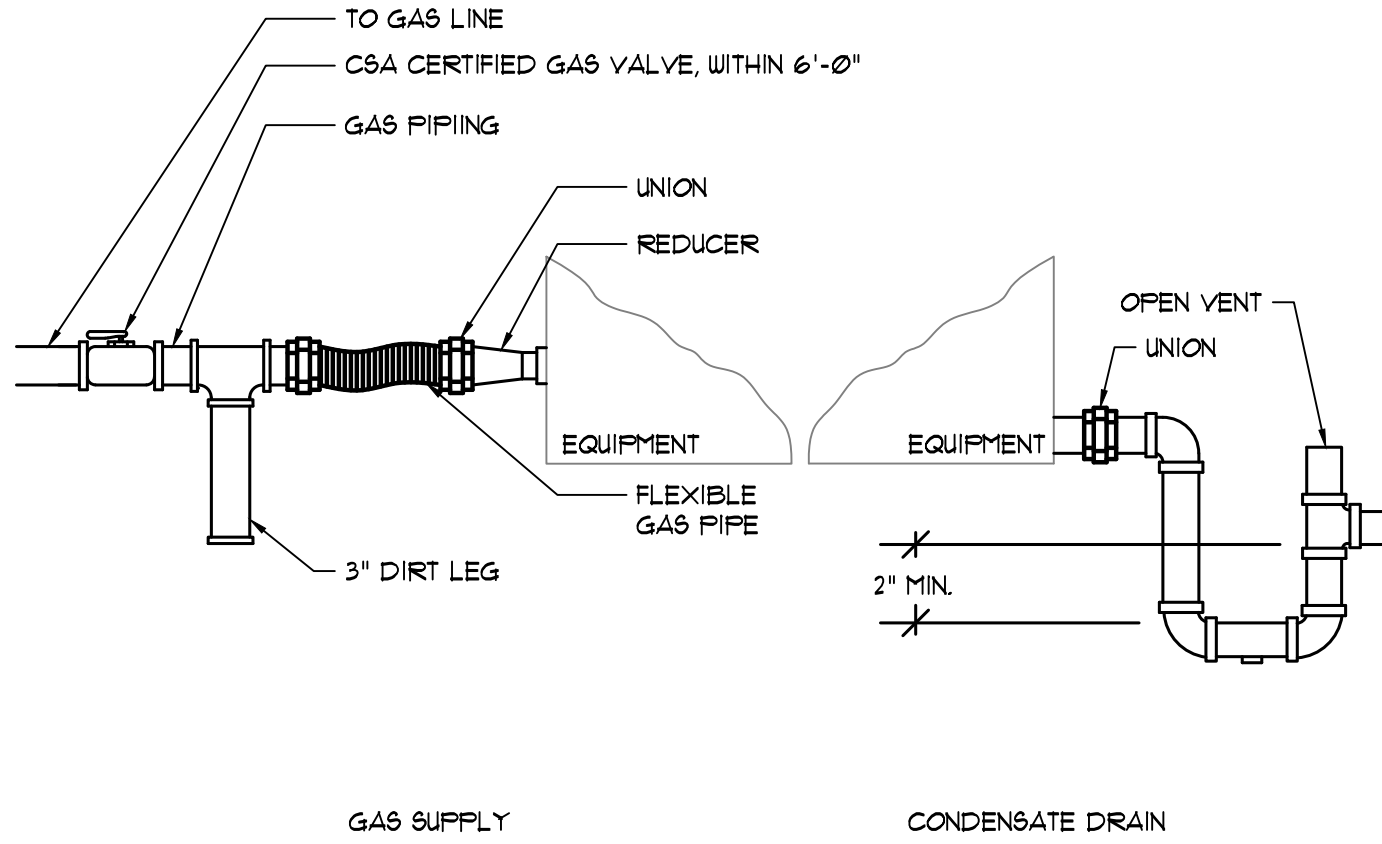
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P31



GAS WATER HEATER DETAIL

SCALE: NONE

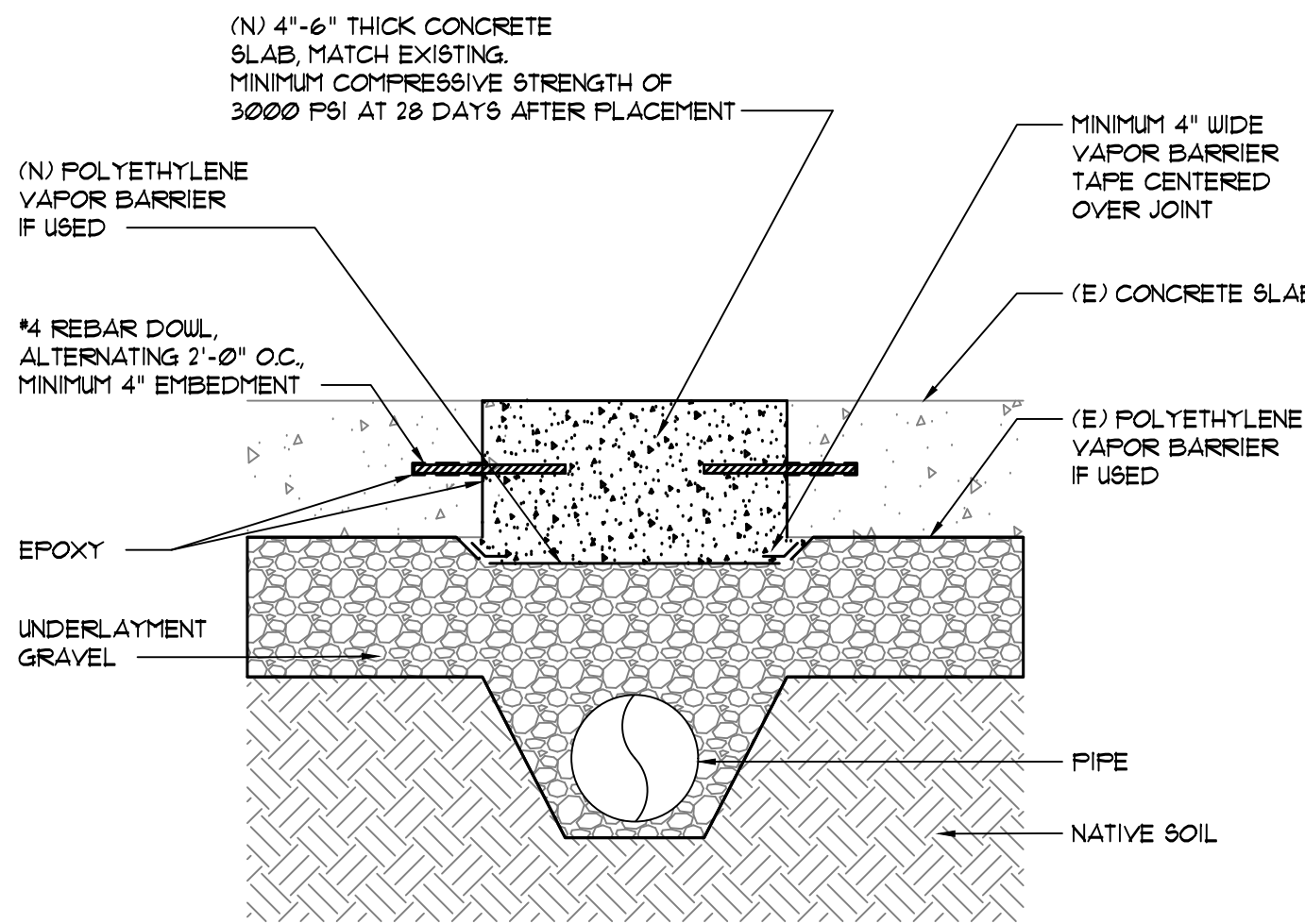
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GAS & CD DETAIL

SCALE: NONE

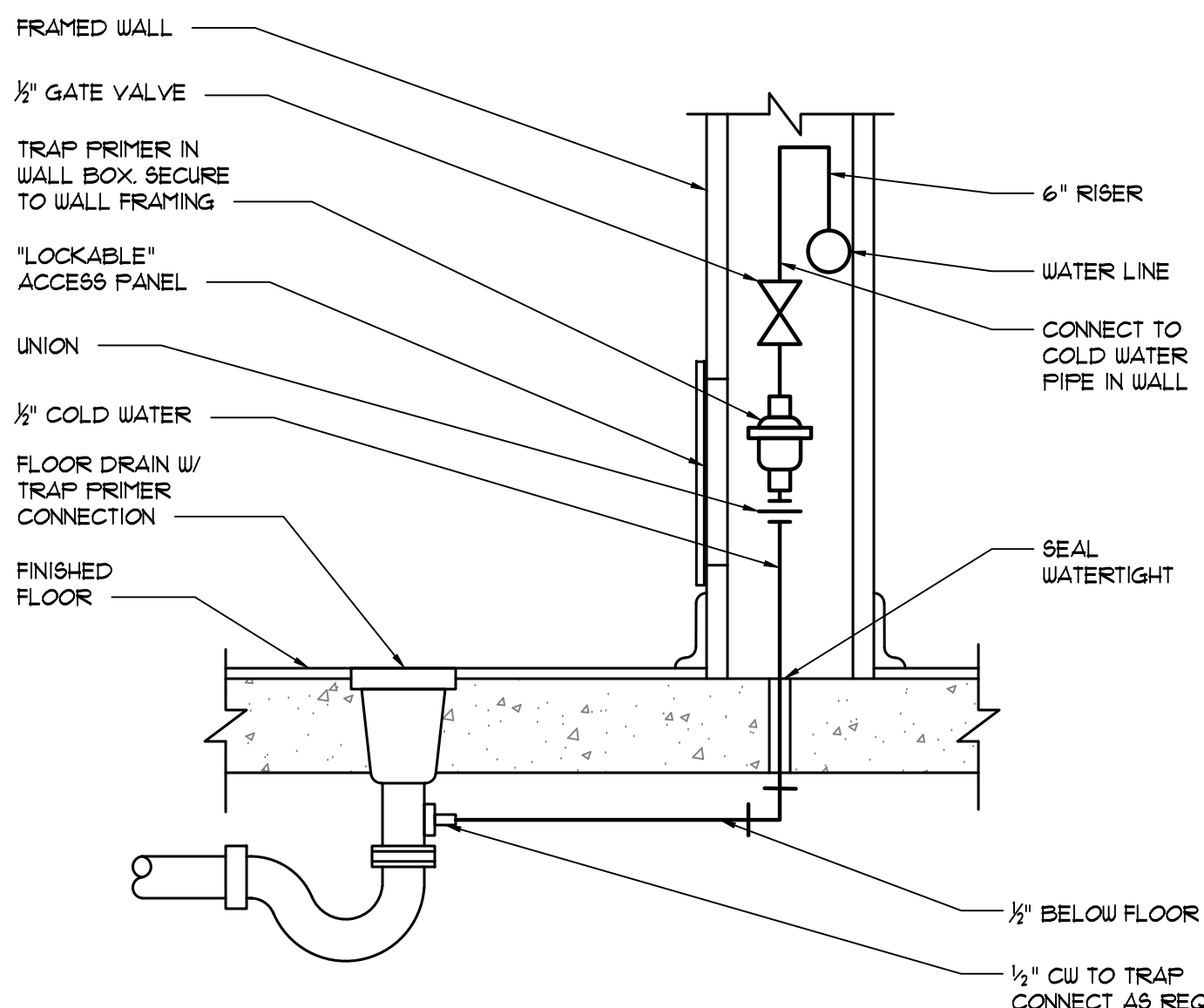
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SLAB POUR BACK

SCALE: NONE

2
P31



TRAP PRIMER DETAIL

SCALE: NONE

3
P31



Date Signed: 1/19/2026



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284 W. BEAMER STREET
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DATE 00/00/25
DRAWN MU/JS
JOB NO. 23028
SHEET

P3.1
OF SHEETS

**JOB TITLE**

CONSTRUCTION DOCUMENTS FOR:
**YOLO COUNTY-
ROADS BUILDING RENOVATIONS**
384 W. BEAMER STREET
WOODLAND, CA

CLIENT: YOLO COUNTY GENERAL SERVICES DEPARTMENT
ADDRESS: 420 W. MAIN STREET, SUITE D WOODLAND, CA

REVISIONS

	DATE:	DESCRIPTION:
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DATE	00/00/2
DRAWN	MU/J
JOB NO.	2302
SHEET	
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GENERAL NOTES

1. THESE DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNLESS APPROVED BY THE AUTHORITY HAVING JURISDICTION.
2. ALL ELECTRICAL SHOWN IS NEW UON.
3. DIMENSIONS AND QUANTITIES WHERE SHOWN, ARE FOR ENGINEERING CALCULATIONS ONLY. THE CONTRACTOR IS RESPONSIBLE FOR HIS OWN TAKE-OFF FOR THE PURPOSES OF BIDDING AND ORDERING.
4. THE CONTRACTOR SHALL VISIT JOB SITE AND VERIFY DIMENSIONS AND CONDITIONS BEFORE BIDDING. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
5. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY, AND NOT INTENDED TO SHOW ROUTING OF CABLES AND CONDUITS WHICH SHALL BE DETERMINED IN THE FIELD. UON. DEVICES ARE NOT SHOWN TO SCALE, AND THEREFORE CANNOT ALWAYS BE SHOWN IN THEIR EXACT LOCATION.
6. THE ELECTRICAL DRAWINGS ARE NOT INTENDED TO SERVE AS STAND ALONE DOCUMENTS TO COMMUNICATE THE ENTIRE SCOPE OF ELECTRICAL WORK. THE CONTRACTOR SHALL OBTAIN A COMPLETE SET OF CONSTRUCTION DOCUMENTS INCLUDING ALL DRAWINGS, SPECIFICATIONS, AND MANUALS.
7. WORK INCLUDES ALL LABOR, MATERIALS AND EQUIPMENT TO REMOVE AND INSTALL ELECTRICAL ITEMS NECESSARY TO PROVIDE COMPLETE WORKING SYSTEMS.
8. THE FACILITY SHALL REMAIN IN OPERATION DURING ALL PHASES OF WORK. WHERE SYSTEM SHUTDOWNS AND POWER OUTAGES ARE UNAVOIDABLE, SUCH WORK SHALL BE SCHEDULED WITH THE FACILITY MANAGER AND SHALL OCCUR AT SUCH TIMES AS TO CAUSE THE LEAST DISRUPTION OF NORMAL FACILITY FUNCTIONS. INCLUDE ALL PREMIUM LABOR IN BID PROPOSAL TO COVER WORK REQUIRED TO BE PERFORMED BEFORE OR AFTER "NORMAL" WORKING HOURS.
9. EXISTING DEVICES SHOWN WERE TAKEN FROM LIMITED SITE SURVEYS, AND MAY NOT BE COMPLETELY ACCURATE. THE CONTRACTOR SHALL VISIT JOB SITE AND VERIFY CONDITIONS PRIOR TO BIDDING. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
10. BRANCH CIRCUITRY MAY NOT BE SHOWN FOR EXISTING DEVICES. THE ELECTRICAL TRADE SHALL RELOCATE EXISTING BRANCH CIRCUITRY AND MAKE ALL NECESSARY RECONNECTIONS AS REQUIRED TO FACILITATE REMODEL. VERIFY ALL WORK REQUIRED ON SITE AND NOTE ON RECORD DRAWINGS.
11. ALL ELECTRICAL WORK SHALL CONFORM WITH THE 2022 EDITION OF THE CALIFORNIA ELECTRICAL CODE AS WELL AS ALL LOCAL CODES & REQUIREMENTS.
12. ALL EQUIPMENT INSTALLED OR CONNECTED BY ELECTRICAL TRADE SHALL BE LABELED OR CERTIFIED FOR ITS USE BY A NATIONALLY RECOGNIZED TESTING LABORATORY.
13. REFER TO THOSE DRAWINGS SHOWING OTHER WORK, AND COORDINATE PLACEMENT OF WORK WITH THAT OF OTHER TRADES. REPORT ANY CONFLICT TO ARCHITECT PRIOR TO INSTALLING WORK. ADJUST WORK AS DIRECTED BY ARCHITECT.
14. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATIONS OF EQUIPMENT. REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR POWER AND CONTROL REQUIREMENTS AND WIRING DIAGRAMS.
15. UNLESS WRAPPED WITH PUTTY PADS LISTED FOR THIS PURPOSE, BOXES PENETRATING RATED WALLS OR PARTITIONS SHALL BE 4" SQUARE MAXIMUM, AND SHALL BE SPACED 24" APART MINIMUM. PROVIDE STAINLESS STEEL TRIM PLATES.
16. WHERE ELECTRICAL CONDUIT ENTERS A WALL, CEILING OR FLOOR, THE OPENING AROUND THE CONDUIT SHALL BE TIGHTLY SEALED.
17. CORE DRILL EXISTING WALLS AND FLOORS AS REQUIRED TO FACILITATE CONDUIT INSTALLATION. SEAL ALL PENETRATIONS WATER AND SMOKE TIGHT AND IN CONFORMANCE WITH CBC SECTION 109 AND C.E.C. 300-21. FIRE STOP MATERIAL SHALL BE A TESTED ASSEMBLY APPROVED BY THE FIRE MARSHAL. NO REBAR SHALL BE CUT DURING CORE DRILL OPERATION.
18. ALL EFFORTS SHALL BE MADE TO ENCLOSE ALL CONDUIT WITHIN THE WALLS IN FINISHED SPACES. WHERE THIS IS NOT POSSIBLE, MULTIPLE RUNS OF CONDUIT SHALL BE FURRED IN, ENCASED IN AN APPROVED RACEWAY OR OTHER APPROVED, SEALED ENCLOSURE.
19. FLEXIBLE METALLIC CONDUIT MAY BE USED FOR BRANCH CIRCUITS WHERE METALLIC CONDUIT IS SHOWN. METAL CLAD CABLE MAY BE USED FOR BRANCH CIRCUITS WHERE CONCEALED WITHIN WALLS.
20. ALL WIRING WITHIN RATED WALLS SHALL BE INSTALLED IN EMT OR RSC.
21. PROVIDE A GROUNDING CONDUCTOR IN ALL FLEXIBLE CONDUITS.
22. THE COMPLETE SYSTEM SHALL BE GROUNDED PER CEC ART. 250.
23. GENERAL PURPOSE 120V LIGHTING AND RECEPTACLE CIRCUITS OVER 60' LONG SHALL BE #10 CU, UON. GENERAL PURPOSE 277V LIGHTING CIRCUITS OVER 105' LONG SHALL BE #10 CU, UON.
24. EVERY CIRCUIT SHALL BE LEGIBLY IDENTIFIED AS TO ITS CLEAR, EVIDENT, AND SPECIFIC PURPOSE OR USE PER 2022 CEC Art.

408.4(A).

25. PROVIDE TYPEWRITTEN SCHEDULES INDICATING LOAD DESCRIPTION FOR ALL CIRCUITS IN PANELS.
26. CLEAN OUT AND REMOVE FROM SITE ALL SURPLUS MATERIALS AND DEBRIS RESULTING FROM THIS WORK.
27. COORDINATE ALL TRIM COLOR AND STYLE W/ ARCHITECT PRIOR TO ORDERING.

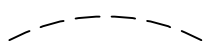
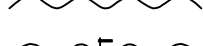
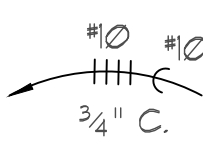
SINGLE LINE DIAGRAM NOTES

1. ALL CONDUCTORS ARE COPPER, UON.
2. PANELBOARDS SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. THE MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.
3. ALL PANELBOARDS SUPPLIED BY FEEDERS SHALL BE MARKED TO INDICATE EACH DEVICE OR EQUIPMENT WHERE THE POWER ORIGINATES.
4. PANELS SHALL NOT CONTAIN ANY SPACES UNPREPARED FOR CIRCUIT BREAKER INSTALLATION EXCEPT WHERE NECESSARY. PROVIDE ALL REQUIRED HARDWARE FOR FUTURE CIRCUIT BREAKER INSTALLATIONS.
5. THE SECONDARY SIDE OF ALL TRANSFORMERS SHALL BE GROUNDED TO THE NEAREST GROUNDING ELECTRODE, AND BONDED TO THE METAL SYSTEMS WITHIN THE AREA SERVED.

ONE LINE DIAGRAM SYMBOLS

-  LANDING LUGS, COORDINATE SIZE W/ FEEDERS.
-  BUS DISCONNECTING LINK
-  THERMAL MAGNETIC CIRCUIT BREAKER SIZED AS NOTED
-  TRANSFORMER, SIZE AND TYPE AS INDICATED
-  GROUNDING ELECTRODE, SIZE AND TYPE AS INDICATED

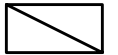
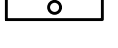
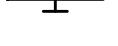
WIRE AND CONDUIT LEGEND

-  METALLIC CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING. RUNS LONGER THAN 50' SHALL INCLUDE EXPANSION FITTING(S).
-  CONDUIT RUN UNDER FLOOR OR UNDERGROUND. PVC RUNS LONGER THAN 20' SHALL INCLUDE EXPANSION FITTING(S).
-  CIRCUIT HOME RUN
-  FLEXIBLE METALLIC CONDUIT
-  FACTORY WHIP
-  NO CROSSBARS ON CONDUIT INDICATE 1/2" METALLIC CONDUIT WITH TWO #12 AUG THIN/THIN-2 CONDUCTORS & ONE #12 AUG THIN/THIN-2 GND. CROSSBARS INDICATE NUMBER OF #12 AUG THIN/THIN-2 CONDUCTORS IN CONDUIT IN ADDITION TO #12 AUG THIN/THIN-2 GND. CONDUCTOR SIZE OTHER THAN #12 NOTED ON DRAWING.
-  CONDUCTORS AND CONDUIT TO BE REMOVED, UON.
-  CONDUIT UP.
-  EXAMPLE: THREE CIRCUITS IN HOME RUN - FOUR #10 AUG THIN/THIN-2 CONDUCTORS AND ONE #10 AUG THIN/THIN-2 GROUNDING CONDUCTOR IN 3/4" METALLIC CONDUIT.

ABBREVIATIONS LIST

A	AMPERE	MSB	MAIN SWITCHBOARD
AC	ALTERNATING CURRENT	N.I.E.S.	NOT IN ELECTRICAL SCOPE OF WORK
AF	AMPERE FUSE		
AMP	AMPERE	(N)	NEW
AFF.	ABOVE FINISHED FLOOR	NEUT.	NEUTRAL
AL	ALUMINUM	NTS	NOT TO SCALE
AS	AMPERE SWITCH	FRI.	PRIMARY
B.C.	BARE COPPER	PVC	POLYVINYL CHLORIDE
BLDG.	BUILDING		CONDUIT
C.	CONDUIT	(R)	EXISTING TO BE RELOCATED
C.O.	CONDUIT ONLY, WITH FULL LINE	(RR)	REMOVE AND REPLACE
CU	COPPER	SEC.	SECONDARY
(E)	EXISTING TO REMAIN	TTB	TELEPHONE TERMINAL
(ER)	EXISTING RELOCATED		BOARD
EMT	ELECTRICAL METALLIC TUBING	TYP.	TYPICAL
G	GROUND	UG	UNDERGROUND
GND.	GROUND	UON	UNLESS OTHERWISE NOTED
H.I.D.	HIGH INTENSITY DISCHARGE	V	VOLTS
J-BOX	JUNCTION BOX	W	WIRE
KVA	KILO VOLT AMP	WP	WEATHERPROOF WHILE IN USE
MH	METAL HALIDE	W/	WITH
		XFMR	TRANSFORMER
		ø	PHASE

ELECTRICAL SYMBOLS

-  LIGHT EMITTING DIODE LAY-IN LIGHT FIXTURE - RECESSED
-  LIGHT EMITTING DIODE DOWNLIGHT FIXTURE - RECESSED
-  LIGHT EMITTING DIODE LIGHT FIXTURE - SURFACE MOUNTED
-  LIGHT EMITTING DIODE STRIP LIGHT - SURFACE/PENDANT MTD.
-  LIGHT EMITTING DIODE WALL BRACKET LIGHT FIXTURE
-  EMERGENCY LIGHT REMOTE HEAD

-  EXIT SIGN, WALL MOUNTED ABOVE DOOR. SHADING INDICATES SIDE(S) WITH FACE(S).
-  EXIT SIGN, CEILING MOUNTED. SHADING INDICATES SIDE(S) WITH FACE(S).
-  EXIT SIGN DIRECTIONAL ARROW

NOTE: LETTER INDICATES FIXTURE TYPE - SEE FIXTURE SCHEDULE. SHADING = EMERGENCY FIXTURE. PROVIDE EMERGENCY BATTERY BALLAST. PROVIDE SWITCHED CONDUCTOR & HOT CONDUCTOR. NL = NIGHT LIGHT, PROVIDE UNSWITCHED HOT CONDUCTOR TO INTERIOR LIGHTS. EXTERIOR LIGHTS TO SWITCH ON/OFF BY PHOTOCELL OR ASTRONOMICAL TIME CLOCK AS NOTED IF MARKED 'NL'. PROVIDE UNSWITCHED HOT CONDUCTOR TO FEED EXIT AND EMERGENCY LIGHTING.

-  SINGLE POLE TOGGLE SWITCH, +46" UON
-  DUAL LEVEL OCCUPANCY SENSOR, +46" UON
-  SWITCH SUBSCRIPTS: a, b, c, etc. = DEVICE CONTROLLED.
-  DIGITAL NETWORK OCCUPANCY SENSOR ACUITY nCM PDT 9
-  DIGITAL NETWORK WALL MOUNT DIMMING OCCUPANCY SENSOR, +46" ACUITY nWSX PDT LV DX
-  DIGITAL NETWORK WALL MOUNT MANUAL SWITCH, +46" ACUITY nPODM
-  0-10V DIGITAL NETWORK DIMMING SWITCH ACUITY nPODM DX
-  NO. OF CHANNELS DESIGNATED BY NUMBER OF SWITCH LEGS SHOWN
-  DIGITAL NETWORK BRIDGE ACUITY nBRG8 KIT, INCLUDES 'P61'
-  DIGITAL NETWORK GATEWAY ACUITY nGW2 L400 KIT, INCLUDES 'P62'
-  DIGITAL NETWORK POWER SUPPLY

FUSED DISCONNECT SWITCH WITH TIME DELAY FUSES SIZED PER UNIT NAMEPLATE OR AS NOTED. DISCONNECT SHALL ACCEPT MAXIMUM ALLOWABLE FUSE SIZE. PROVIDE CONNECTION TO EQUIPMENT BEING SERVED, AND ALL INTERCONNECTING POWER WIRING BETWEEN COMPONENTS.

-  DUPLEX RECEPTACLE, NEMA 5-15R, +18" UON
-  DOUBLE DUPLEX RECEPTACLE, NEMA 5-15R, +18" UON
-  DUPLEX RECEPTACLE, NEMA 5-20R, +18" UON
-  208 VOLT, 1 PHASE RECEPTACLE, VERIFY NEMA CONFIGURATION & EXACT LOCATION, +18" UON

RECEPTACLE SUBSCRIPTS:
C = MOUNTED ABOVE COUNTER, COORDINATE W/ ARCHITECTURAL ELEVATIONS.
G = GROUND FAULT CIRCUIT INTERRUPTER
R = ROOF MOUNTED, WEATHERPROOF WHILE IN USE, GFCI
W = WALL MOUNTED +46"

-  JUNCTION BOX, SIZE, TYPE AND PLATE AS REQUIRED
-  TELECOM OUTLET +18" IN 4 1/16" SQUARE X 2 1/8" DEEP BOX W/ SINGLE GANG PLASTER RING & BLANK PLATE. STUB 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE. TERMINATE W/ INSULATED BUSHING. RING & STRING MAY BE SUBSTITUTED IN NON-RATED WALLS WITH UNOBSTRUCTED PATH TO ACCESSIBLE CEILING DIRECTLY ABOVE.

-  TV/MONITOR OUTLET, +46" UON. RING AND STRING.
-  EXHAUST FAN, N.I.E.S. PROVIDE CONNECTION AS REQUIRED.
-  POINT OF CONNECTION TO EQUIPMENT, N.I.E.S. PROVIDE CONNECTION AS REQUIRED.
-  TV/MONITOR OUTLET, +46" UON. RING AND STRING.
-  CARD READER +48" TO TOP, N.I.E.S. PROVIDE 3/4" C.O. TO ACCESSIBLE CEILING SPACE.
-  ELECTRIC STRIKE, N.I.E.S. PROVIDE 1/2" C.O. TO ACCESSIBLE CEILING SPACE.
-  SWITCHBOARD, SEE ONE LINE DIAGRAM
-  BRANCH CIRCUIT PANEL, SEE PANEL SCHEDULES
-  SIGNAL OR CONTROL PANEL, TYPE AS INDICATED
-  IDENTIFICATION TAG FOR EQUIPMENT PROVIDED BY OTHERS. CONNECT EQUIPMENT AS INDICATED OR AS REQUIRED.
-  NUMBERED NOTE TAG - SEE NUMBERED NOTES, SAME SHEET
-  INDICATES DETAIL "A" AT SHEET "EI"



Date Signed: 10/31/2025



JOB TITLE:

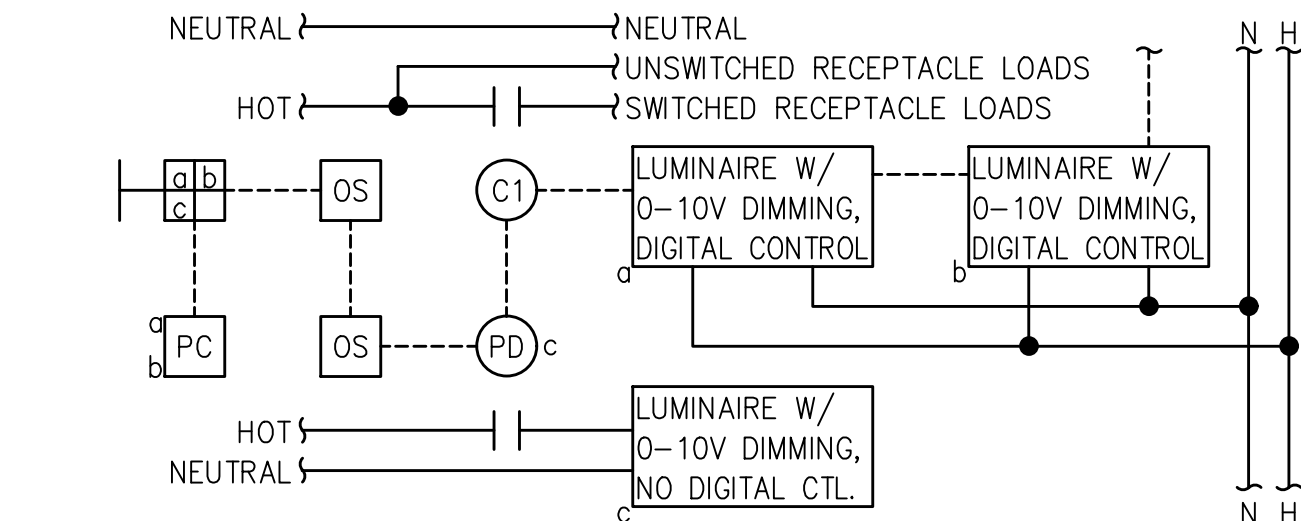
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	DATE:	DESCRIPTION:
		
		
		
		
		

DATE	00/00/25
DRAWN	MUJS
JOB NO.	23028
SHEET	

OF - SHEETS
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----- CATEGORY 5E PLENUM CABLE. INSTALL IN 1/2" MIN. EMT WHERE NOT CONCEALED BY BUILDING FINISHES.

----- LINE VOLTAGE WIRING PER PLAN

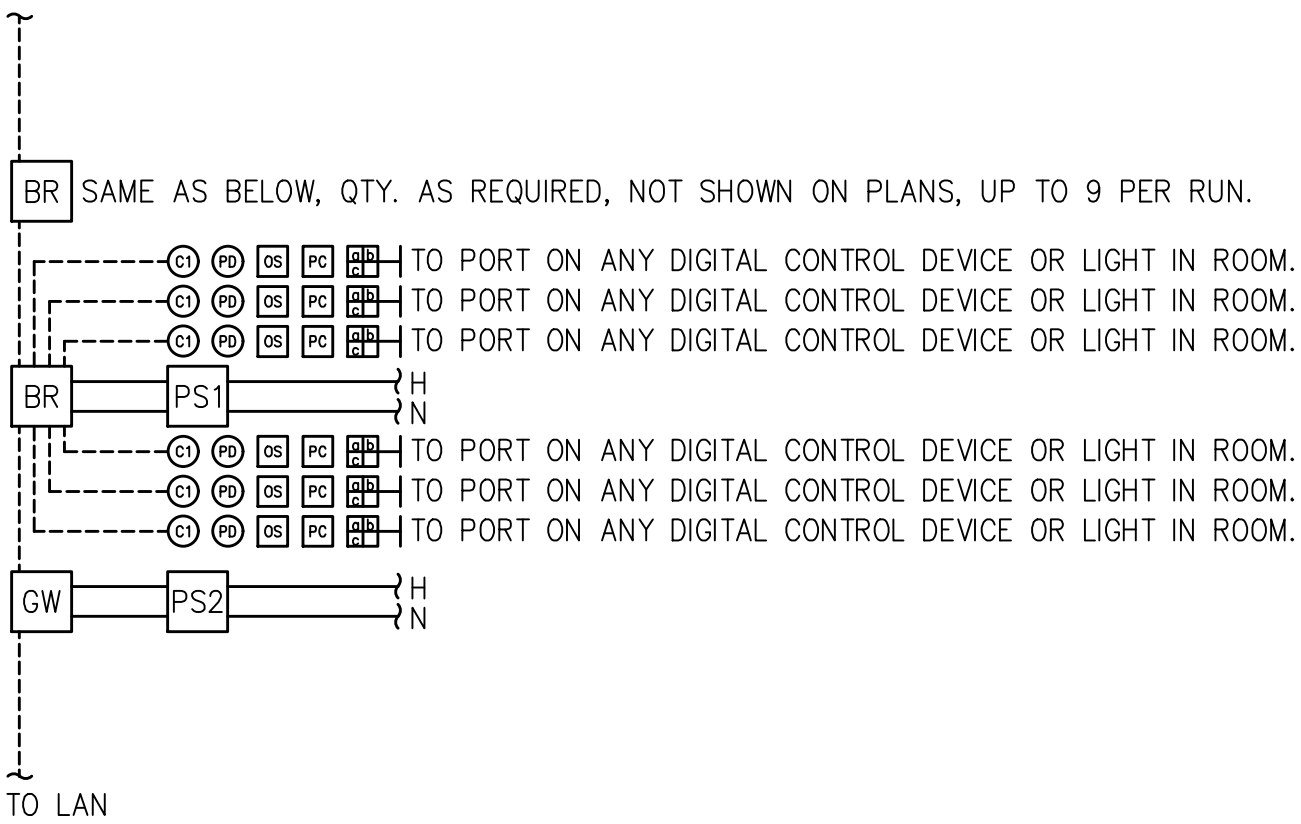
PROVIDE ALL BACKBOXES AND MOUNTING HARDWARE AS REQUIRED.

NOT ALL CONTROLS ARE USED IN EACH CASE. QUANTITIES OF CIRCUITS, CONTROLS, AND LUMINAIRES VARY. SEE PLANS.

TYP. ROOM LIGHTING CONTROL

NO SCALE

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----- CATEGORY 5E PLENUM CABLE

----- LINE VOLTAGE WIRING IN CONDUIT.

BRIDGES MAY NOT BE SHOWN ON PLAN. LOCATION TO BE DETERMINED IN THE FIELD.
SUBMIT SHOP DRAWINGS FOR COMPLETE LIGHTING CONTROL SYSTEM.
INCLUDE PROGRAMMING AND STARTUP BY FACTORY REPRESENTATIVE.

LIGHTING CONTROL SYSTEM

NO SCALE

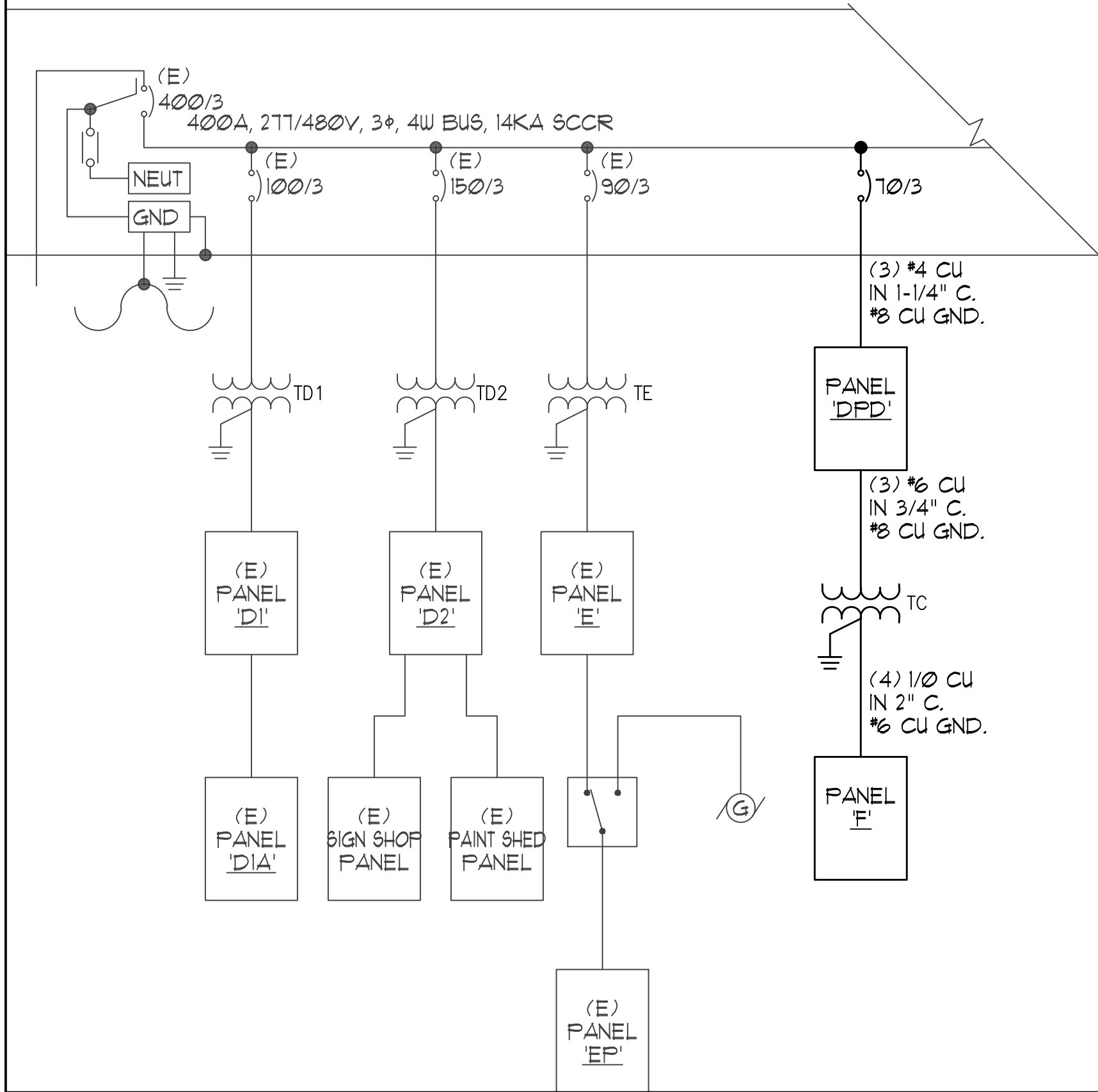
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PANEL 'DPD'									
277/480V, 3Ph, 4W.									
SURFACE MOUNTED									
125 AMP BUS									
DESCRIPTION	KVA	BKR	CKT	Ph. A	Ph. B	Ph. C	CKT	BKR	KVA
LIGHTING	1.3	20/1	1	1.3			2		
			3				4		
			5				6		
			7				8		
			9				10		
			11				12		
			13	10.8			14	10.8	
			15		11.0		16	11.0	PANEL 'F' VIA 'TC'
			17				18	10.8	
SUBTOTAL:									
CONNECTED LOAD 33.9 KVA									
25% LIGHTING LOAD 0.3 KVA									
25% LARGEST MOTOR KVA									
1st 10.0 KVA RECEPTACLE LOAD @ 100% PROTECTION: 70A									
PLUS REMAINDER @ 50% KVA AVAILABLE FAULT <14 KA									
TOTAL LOAD 34.3 KVA / 0.831 FACTOR = 41 AMPS									

(E) DRY TYPE DISTRIBUTION TRANSFORMER SCHEDULE

ID	KVA	PRI V	SEC V	TYPE	RISE	WINDING	H	W	D	LBS	GEC	% IMP	FCAN	FCBN
TD1	75	3φ 480/3	120/208	K-7	130"	AL				635	#2	5.6	2-2.5%	4-2.5%
TD2	100	3φ 480/3	120/240	K-7	115"	AL				825	#2	5.17	2-2.5%	4-2.5%
TE	75	3φ 480/3	120/208	K-7	100"	AL	37"	30"	20"	504	#2	5.5	2-2.5%	4-2.5%
TC	45	3φ 480/3	120/208	K-7	150"	AL	30"	26"	26"	369	#6	4.1	2-2.5%	4-2.5%

(E) DIST. PANEL - "DPC"



ONE LINE DIAGRAM

NO SCALE

C
E0.2

PANEL 'F'									
120/208V, 3 Ph, 4W.									
SURFACE MOUNTED									
225 AMP BUS									
DESCRIPTION	KVA	BKR	CKT	Ph. A	Ph. B	Ph. C	CKT	BKR	KVA
STOVE	3.0		1	3.9			2	20/1	0.9
	3.0	35/3	3		3.4		4	20/1	0.4
	3.0		5			3.9	6	20/1	0.9
	2.5		7	2.9			8	20/1	0.4
H HP-2	2.5	40/3	9		2.9		10	20/1	0.4
	2.5		11			2.9	12	20/1	0.4
	3.0		13	3.8			14	20/1	0.8
H HP-3	3.0	45/3	15		4.8		16	20/1	1.8
	3.0		17			4.0	18	20/1	1.1
			19	0.2			20	20/1	0.2
			21				22		
			23				24		
			25				26		
			27				28		
			29				30		
			31				32		
			33				34		
			35				36		
			37				38		
			39				40		
			41				42		
SUBTOTAL:									
CONNECTED LOAD 32.6 KVA									
25% LIGHTING LOAD KVA									
25% LARGEST MOTOR KVA									
1st 10.0 KVA RECEPTACLE LOAD @ 100%									
PLUS REMAINDER @ 50% KVA AFC= <10 KA									
TOTAL LOAD 32.6 KVA / 0.380 FACTOR = 91 AMPS									
PROVIDE TIE BARS FOR ALL MULTI-WIRE BRANCH CIRCUITS.									
H HACR RATED (HEATING, AIR CONDITIONING AND REFRIGERATION)									

LIGHTING FIXTURE SCHEDULE						
TYPE	MANUFACTURER	FIXT. VOLT.	LAMPS		INPUT V.A.	REMARKS
			NO.	TYPE		
A43	LITHONIA 2TL4 30L FW A19 EZI LP840 N80	MULTI	FURNISHED W/ FIXTURE		25	RECESSED LAY-IN CEILING
A43E	LITHONIA 2TL4 30L FW A19 EZI LP840 N80 E10WLCF	MULTI	FURNISHED W/ FIXTURE		25	RECESSED LAY-IN CEILING
A44	LITHONIA 2TL4 40L FW A19 EZI LP840 N80	MULTI	FURNISHED W/ FIXTURE		32	RECESSED LAY-IN CEILING
A45	LITHONIA 2TL4 48L FW A19 EZI LP840 N80 E10WLCF	MULTI	FURNISHED W/ FIXTURE		40	RECESSED LAY-IN CEILING
A45E	LITHONIA 2TL4 48L FW A19 EZI LP840 N80 E10WLCF	MULTI	FURNISHED W/ FIXTURE		40	RECESSED LAY-IN CEILING
B43	LITHONIA BLUUF4 30LHE ADPT EZI LP840 N80 FAF	MULTI	FURNISHED W/ FIXTURE		25	SURFACE WALL ABOVE MIRROR
B43E	LITHONIA BLUUF4 30LHE ADPT EZI LP840 N80 E10WLCF FAF	MULTI	FURNISHED W/ FIXTURE		25	SURFACE WALL ABOVE MIRROR
B46	LITHONIA BLUUF4 60LHE ADPT EZI LP840 N80 FAF	MULTI	FURNISHED W/ FIXTURE		49	SURFACE CEILING
D15	LITHONIA LDN6 40/15 L06AR L95 MVOLT GZ10	MULTI	FURNISHED W/ FIXTURE		17.5	RECESSED
X	LITHONIA LHQM LED R HO RO SD	MULTI	FURNISHED W/ FIXTURE		4.3	UNIVERSAL MOUNT
X3	LITHONIA LQM S W 3 R MVOLT EL N SD	MULTI	FURNISHED W/ FIXTURE		1	UNIVERSAL MOUNT
XR	LITHONIA ELA T QWP L0309 SD	9.6	FURNISHED W/ FIXTURE		3	SURFACE WALL ABOVE DOOR
Z2	LITHONIA ZLIN L24 I500LM L/LENS MVOLT 40K 80CRI WH WZ24	MULTI	FURNISHED W/ FIXTURE		15	SURFACE CEILING MOUNT
Z3	LITHONIA ZLIN L48 3000LM L/LENS MVOLT 40K 80CRI WH WZ48	MULTI	FURNISHED W/ FIXTURE		25	SURFACE CEILING MOUNT

NOTES

- UNIT BATTERIES SHALL PROVIDE A SECONDARY SOURCE OF POWER FOR 90 MINUTES MINIMUM.
- REMOTE HEAD, PROVIDE CONNECTION TO EXIT OR EMERGENCY/ EXIT SIGN "X" OR "XE".



Date Signed: 10/31/2025



JOB TITLE:

CONSTRUCTION DOCUMENTS FOR:
**YOLO COUNTY -
ROADS BUILDING RENOVATIONS**
284 W. BEAMER STREET
WOODLAND, CA
CLIENT: YOLO COUNTY GENERAL SERVICES DEPARTMENT
ADDRESS: 120 W. MAIN STREET., SUITE D, WOODLAND CA

REVISIONS:

	DATE:	DESCRIPTION:
△		
△		
△		
△		
△		
△		

DATE 00/00/25

DRAWN MU/JS

JOB NO. 23028

SHEET

E0.2
OF SHEETS

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTI-E
(Page 1 of 8)

Project Name: Yolo County Roads Building
Report Page: (Page 1 of 8)
Date Prepared: 2025-09-17 11:46:21-04:00

Project Address: 284 West Beamer Street

A. GENERAL INFORMATION

01 Project Location (city)	Woodland	04 Total Conditioned Floor Area (ft ²)	3,344.8
02 Climate Zone	12	05 Total Unconditioned Floor Area (ft ²)	0
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 (ft ²)	Calculation Method	Area (ft ²)
☒ New Lighting System	Area Category Method	3344.8	N/A	0
☐ New Lighting System - Parking Garage	N/A	0	N/A	0
Total Area of Work (ft²)		3344.8		

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STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTI-E
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Project Name: Yolo County Roads Building
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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
NA < 4,000W subject to multilevel	See Area/Space Level Controls	Pass
		Fail

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 Light Daylighting 130.1(d) / 160.5(b)4D	Secondary Interlocked Systems 140.6(a)1 / 170.2(e)1A	Field Inspector	
Offices	Office (<=250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	NA: General Ltg < 120W	NA: General Ltg < 120W	No	☐
All-Gender RR	Restroom	Readily Accessible	Dimmer	Auto. Time Switch	NA: Not daylight zone	NA: Not daylight zone	No	☐
Open Office	Office (>250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐
Training Rm	Classroom, Lecture, or Training Vocational	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No	☐
Janitor/Storage	Commercial Industrial Storage Shipping	Readily Accessible	NA: General Ltg < 0.5W/sf	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No	☐
Break Area	Lounge	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No	☐
Men's Locker	Locker/Dressing Room	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No	☐
Changing Rm	Locker/Dressing Room	Readily Accessible	NA: Enclosed area <100SF	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No	☐

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CERTIFICATE OF COMPLIANCE NRCC-LTI-E
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Project Name: Yolo County Roads Building
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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 can be found online

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.

Systems/Spaces To Be Field Verified:
Offices; All-Gender RR; Open Office; Training Rm; Janitor/Storage; Break Area; Men's Locker; Changing Rm; Hall

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STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTI-E
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Project Name: Yolo County Roads Building
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C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b) / 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)25 / 170.2(e)44v (+)	Tailored 140.6(c)3 / 170.2(e)4B (-)	=	Total Allowed (Watts)	Adjustments PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)	=		Total Adjusted (Watts) Includes Adjustments		
(See Table I)	(See Table I)	(See Table J)	(See Table K)		=	1,933.44		≥	1,399.5	=	1399.5	
Conditioned		1,933.44			=	1,933.44		≥	1,399.5	=	1399.5	
Unconditioned					=			≥		=		
Controls Compliance (See Table H for Details)												
Rated Power Reduction Compliance (See Table Q for Details)												
COMPLIES												

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

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Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTI-E
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Project Name: Yolo County Roads Building
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H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Hall	Corridor	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No	☐	☐
							13		
Plan Sheet Showing Daylit Zones:									

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.

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft ²)	Area (ft ²)	Allowed Wattage (Watts)	Area Category	PAF
Offices	Office (<=250 square feet)	0.65	393.2	255.58	No	No
All-Gender RR	Restroom	0.65	290.1	188.57	No	No
Open Office	Office (>250 square feet)	0.6	386.3	231.78	No	No
Training Rm	Classroom, Lecture, or Training Vocational	0.6	1,261.2	756.72	No	No
Janitor/Storage	Commercial Industrial Storage Shipping	0.6	131.1	78.66	No	No
Break Area	Lounge	0.55	320	176	No	No
Men's Locker	Locker/Dressing Room	0.45	345.5	155.48	No	No
Changing Rm	Locker/Dressing Room	0.45	72.9	32.81	No	No
Hall	Corridor	0.4	144.6	57.84	No	No
TOTALS:			3,344.9	1,933.44	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

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CERTIFICATE OF COMPLIANCE NRCC-LTI-E
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Project Name: Yolo County Roads Building
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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Jim Smith
Signature Date: 10/2/25
Company: Sacramento Engineering Consultants
Address: 10555 Old Placerville Road
City/State/Zip: Sacramento, CA 95827

Documentation Author Signature: *Jim Smith*
Signature Date: 10/2/25
CEA/HERS Certification Identification (if applicable):
Phone: (916) 368-4468 ext. 116

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

- The information provided on this Certificate of Compliance is true and correct.
- 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).
- 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.
- 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.
- 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: Jim Smith
Signature Date: 10/2/25
Company: Sacramento Engineering Consultants
Address: 10555 Old Placerville Road
City/State/Zip: Sacramento, CA 95827

Responsible Designer Signature: *Jim Smith*
Signature Date: 10/2/25
Phone: (916) 368-4468 ext. 116

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STATE OF CALIFORNIA
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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 I. If using Table I 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 Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change 1	Watts per luminaire ²	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector
A43	3000 lumen LED 2X4 troffer	No	NA	25	Mfr. Spec.	17	No	425	☐
A44	4000 lumen LED 2X4 troffer	No	NA	32	Mfr. Spec.	4	No	128	☐
A45	4800 lumen LED 2X4 troffer	No	NA	40	Mfr. Spec.	2	No	80	☐
B43	3000 lumen LED 4' wraparound	No	NA	25	Mfr. Spec.	3	No	75	☐
B46	6000 lumen LED 4' wraparound	No	NA	49	Mfr. Spec.	11	No	539	☐
D15	1500 lumen LED downlight	No	NA	17.5	Mfr. Spec.	5	No	87.5	☐
Z2	1500 lumen LED strip	No	NA	15	Mfr. Spec.	1	No	15	☐
Z3	3000 lumen LED strip	No	NA	25	Mfr. Spec.	2	No	50	☐
Total Designed Watts: CONDITIONED SPACES							1,399.5		

¹FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75%/80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.

²Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

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STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTI-E
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Project Name: Yolo County Roads Building
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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.

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CONSTRUCTION DOCUMENTS FOR:
YOLO COUNTY -
ROADS BUILDING RENOVATIONS
284 W. BEAMER STREET
WOODLAND, CA

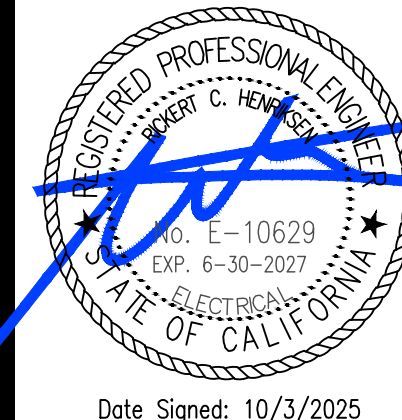
CLIENT: YOLO COUNTY GENERAL SERVICES DEPARTMENT
ADDRESS: 120 W. MAIN STREET, SUITE D. WOODLAND CA

REVISIONS:

DATE	DESCRIPTION
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DATE 00/00/25
DRAWN MUJS
JOB NO. 23028
SHEET

E0.3
OF SHEETS



Date Signed: 10/3/2025



JOB TITLE:

ELECTRICAL DEMOLITION PLAN

SCALE: 1/4"=1'0"

DEMOLITION NOTES

- COORDINATE DEMOLITION WORK WITH ARCHITECTURAL DRAWINGS.
- DRAWINGS AND NOTES ARE FOR REFERENCE ONLY, AND DO NOT NECESSARILY DESCRIBE THE FULL EXTENT OF ALL DEMOLITION REQUIRED. THE CONTRACTOR SHALL COORDINATE THEIR WORK BETWEEN THE NEW FLOOR PLANS AND DEMOLITION PLANS FOR COMPLETE REMOVAL OR RELOCATION OF ALL EXISTING WORK THAT IS NECESSARY TO ALLOW THE PLACEMENT OF NEW WORK.
- MAINTAIN POWER TO EXISTING FIXTURES AND DEVICES NOT REMOVED BY DEMOLITION WORK.
- REMOVE ALL ABANDONED CONDUIT & WIRING.
- REMOVE EQUIPMENT AT WALLS AND CEILINGS BEING REMOVED. REMOVE RACEWAYS BACK TO LAST ACTIVE REMAINING OUTLET OR AS NOTED. DISCONNECT MISCELLANEOUS EQUIPMENT BEING REMOVED.
- WHEREVER ELECTRICAL DEVICES, CONDUITS, CABLES, ETC. CONFLICT WITH NEW CONSTRUCTION, WHETHER SHOWN OR NOT, THE CONTRACTOR MUST RELOCATE THESE ITEMS AND KEEP IN OPERATING CONDITION.
- CHECK BALLASTS FOR PCBs BEFORE DISPOSING. PROPERLY DISPOSE OF LAMPS AND BALLASTS. PAY ALL ASSOCIATED FEES.
- TYPICAL UNLESS OTHERWISE NOTED, ITEMS SHOWN SOLID ARE (E) TO REMAIN. MAINTAIN CIRCUIT CONTINUITY.
- TYPICAL UNLESS OTHERWISE NOTED (E) ITEMS SHOWN DASHED SHALL BE REMOVED, INCLUDING OUTLET BOX, CONDUIT AND WIRE.

NUMBERED NOTES

- DISTRIBUTION PANEL 'DPC' TO REMAIN
- XFMR 'TD1' ABOVE TO REMAIN
- PANEL 'D1' TO REMAIN
- PANEL 'D1A' TO REMAIN
- XFMR 'TD2' ABOVE TO REMAIN
- PANEL 'D2' TO REMAIN
- XFMR 'TE' ABOVE TO REMAIN
- PANEL 'E' TO REMAIN
- PANEL 'EP' TO REMAIN
- AUTOMATIC TRANSFER SWITCH 'ATS' TO REMAIN
- DEMOLISH A PORTION OF TWO CONDUITS TO ALLOW DOOR TO BE CUT IN.

CONSTRUCTION DOCUMENTS FOR:

YOLO COUNTY -

ROADS BUILDING RENOVATIONS

284 W. BEAMER STREET

WOODLAND, CA

CLIENT: YOLO COUNTY GENERAL SERVICES DEPARTMENT

ADDRESS: 120 W. MAIN STREET., SUITE D. WOODLAND CA

REVISIONS:

	DATE:	DESCRIPTION:
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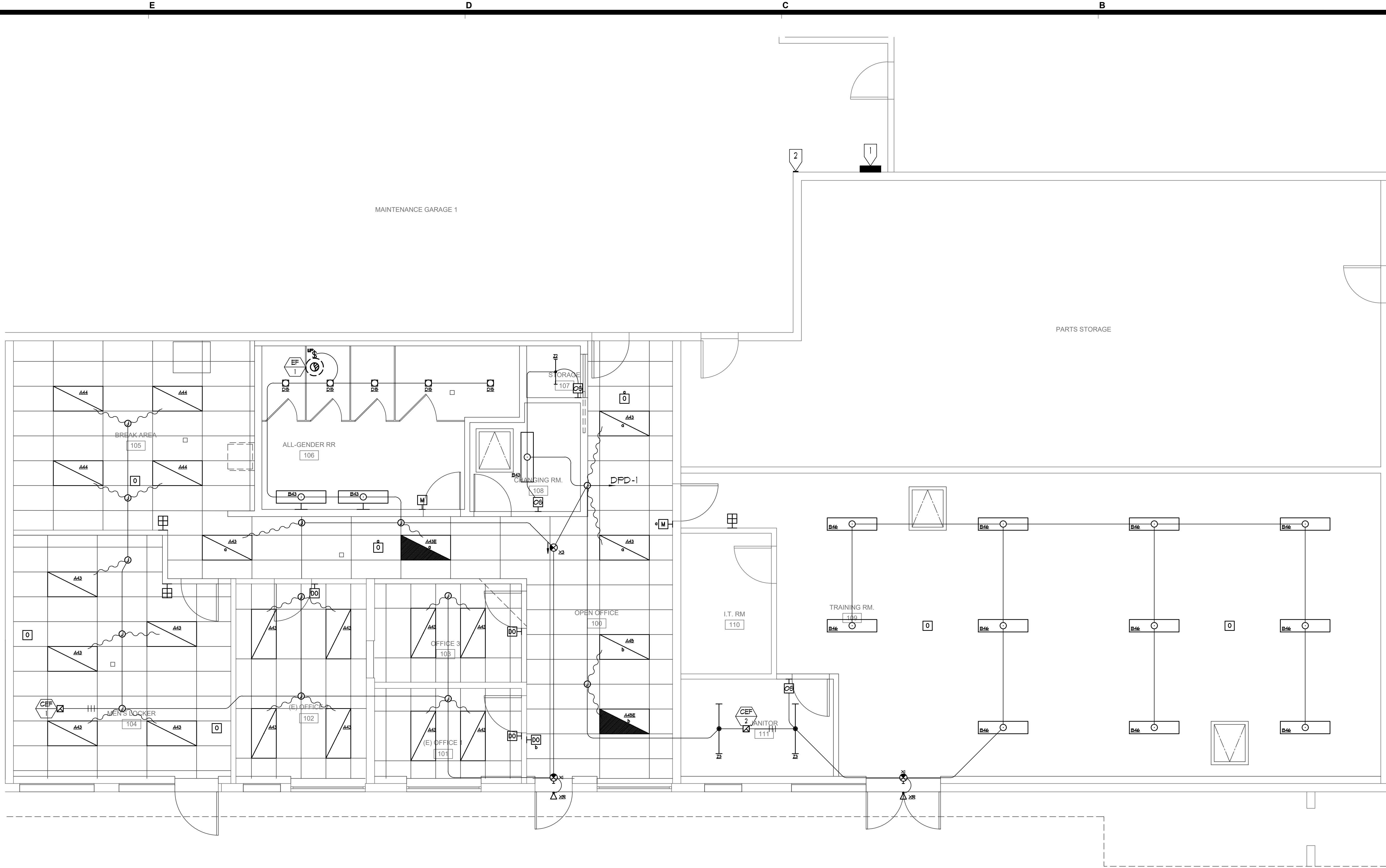
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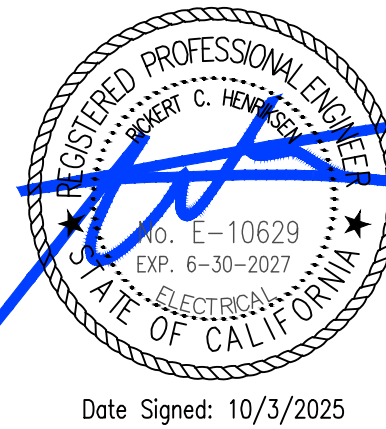
LIGHTING PLAN
SCALE: 1/4"=1'0"

LIGHTING NOTES

- WHEREVER ELECTRICAL FIXTURES CONFLICT WITH NEW CONSTRUCTION, WHETHER SHOWN OR NOT, THE CONTRACTOR MUST RELOCATE AND KEEP IN OPERATING CONDITION.
- REINSTALL LIGHT FIXTURES REMOVED TO FACILITATE INSTALLATION OF WORK OF OTHER TRADES UNDER THIS PROJECT.
- SEAL OPENINGS AND PATCH SURFACES DAMAGED AS A RESULT OF DEMOLITION, RESTORING TO MATCH SURROUNDING SURFACES.
- LAMP COLOR SHALL BE COORDINATED BETWEEN ALL FIXTURES SUPPLIED. COLOR OF ALL NEW LAMPS SUPPLIED SHALL BE COORDINATED WITH (E) BUILDING STANDARD.
- COORDINATE DIMMING SWITCH/RELAY SELECTION AND WIRING REQUIREMENTS WITH LED DRIVER.
- PROVIDE UNSWITCHED HOT CONDUCTOR FOR BATTERY BALLASTS, EXIT SIGNS, AND NIGHT LIGHTS.
- THE EXACT MOUNTING LOCATION FOR ALL LIGHT FIXTURES SHALL BE DETERMINED FROM THE ARCHITECTURAL REFLECTED CEILING PLANS.
- THE ELECTRICAL TRADE SHALL BE RESPONSIBLE FOR VERIFYING THE CEILING CONDITIONS AND TYPE OF FIXTURE MOUNTING REQUIRED PRIOR TO ORDERING FIXTURES. DETERMINATION SHALL BE MADE FROM THE ARCHITECTURAL REFLECTED CEILING PLANS.
- AREAS WITHOUT OCCUPANCY SENSORS SHALL BE CONTROLLED BY THE GATEWAY TIME CLOCK FUNCTION

NUMBERED NOTES

- PANEL 'DPD'
- LIGHTING CONTROL GATEWAY



Date Signed: 10/3/2025



JOB TITLE:

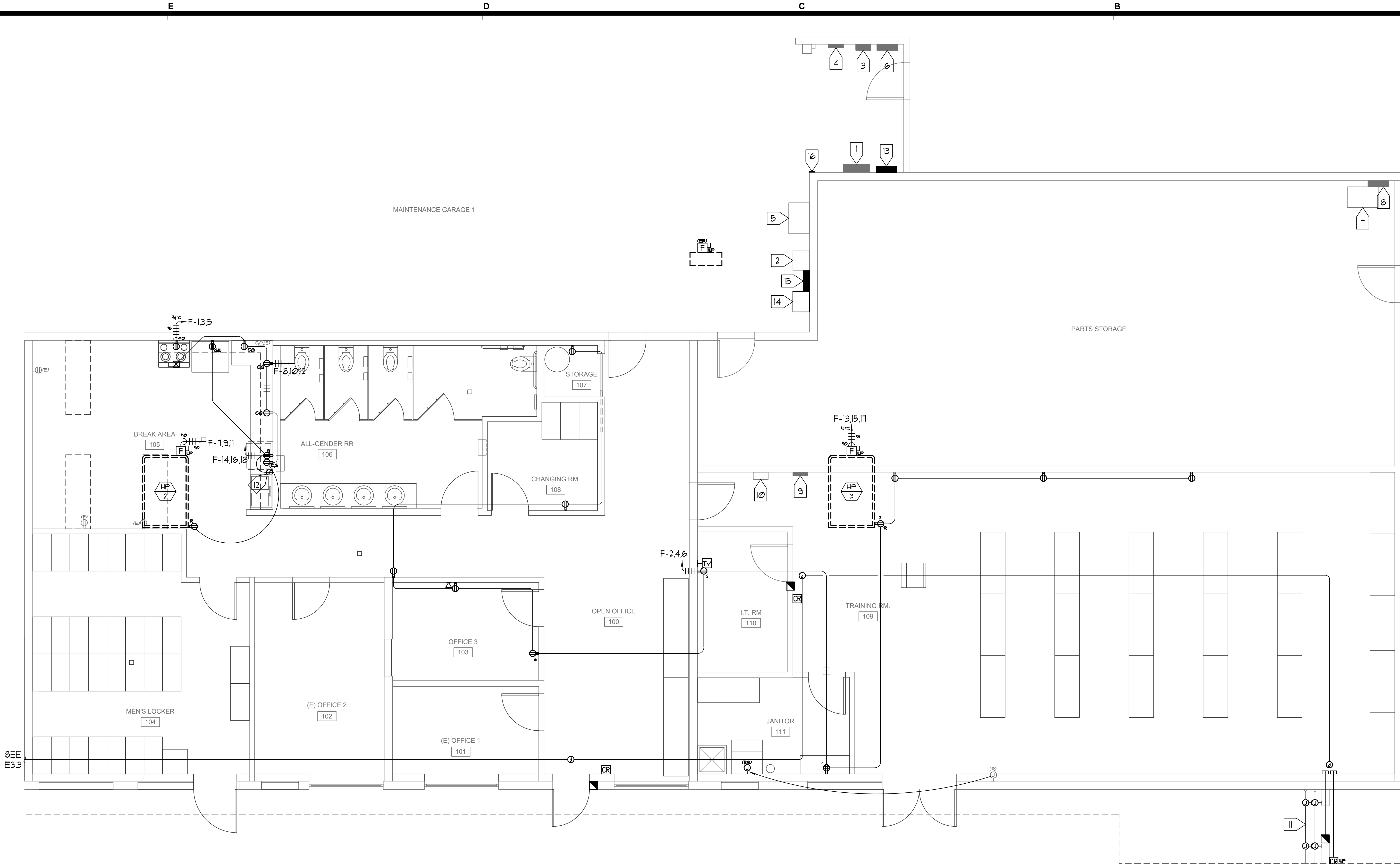
CONSTRUCTION DOCUMENTS FOR:
**YOLO COUNTY -
ROADS BUILDING RENOVATIONS**
284 W. BEAMER STREET
WOODLAND, CA
CLIENT: YOLO COUNTY GENERAL SERVICES DEPARTMENT
ADDRESS: 120 W. MAIN STREET., SUITE D, WOODLAND CA

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POWER & SIGNAL PLAN

SCALE: 1/4"=1'0"

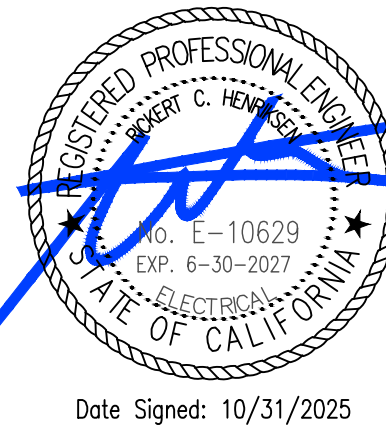
POWER & SIGNAL NOTES

- WHEREVER ELECTRICAL DEVICES, CONDUITS, CABLES, ETC. CONFLICT WITH NEW CONSTRUCTION, WHETHER SHOWN OR NOT, THE CONTRACTOR MUST RELOCATE AND KEEP IN OPERATING CONDITION.
- SEAL OPENINGS AND PATCH SURFACES DAMAGED AS A RESULT OF DEMOLITION, RESTORING TO MATCH SURROUNDING SURFACES.
- VERIFY ALL OUTLET LOCATIONS PRIOR TO ROUGH-IN.
- PROVIDE RECEPTACLE MATCHING THE NEMA CONFIGURATION OF THE FACTORY INSTALLED CORD AND PLUG FOR ALL EQUIPMENT SUPPLIED.
- PROVIDE SO CORD AND PLUG TO MATCH NEMA CONFIGURATION OF RECEPTACLE FOR ALL PORTABLE EQUIPMENT SUPPLIED WITHOUT A FACTORY INSTALLED CORD AND PLUG.
- PROVIDE A HARDWIRED CONNECTION TO ALL NON-PORTABLE EQUIPMENT SUPPLIED WITHOUT A FACTORY INSTALLED CORD AND PLUG.
- RUN CONDUITS BELOW ROOF AS FAR AS POSSIBLE BEFORE RISING UP THROUGH ROOF. PENETRATE ROOF INSIDE THE EQUIPMENT CURB WHERE PERMITTED.
- ALL WIRING RUN TERMINATING ON OR RUN ON THE ROOF SHALL BE TYPE XHHW-2.
- SAFETY SWITCHES SHALL BE SIZED TO ACCEPT THE LARGEST FUSE ALLOWED TO PROTECT THE EQUIPMENT SERVED AND SHALL BE HEAVY DUTY WITH CLASS 'R' REJECTION FUSE CLIPS.
- PROVIDE H.A.C.R. RATED CIRCUIT BREAKERS FOR ALL HEATING, AIR CONDITIONING, AND REFRIGERATION EQUIPMENT.

- NEW PANELS SHALL HAVE A DEDICATED SPACE FROM THE FLOOR TO A HEIGHT OF 6" ABOVE THE PANEL. THERE SHALL BE NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO THE ELECTRICAL EQUIPMENT OR ARCHITECTURAL APPURTENANCES IN THE DEDICATED SPACE FOR ANY NEW PANELS INSTALLED.
- RELOCATE EXISTING LOAD AND CIRCUIT WHERE LABELED AS "(ER)". PROVIDE NEW DEVICE AND PLATE.
- REPLACE (E) RECEPTACLES IN BREAK ROOM W/ GFCI TYPE RECEPTACLES.

NUMBERED NOTES

- (E) DISTRIBUTION PANEL 'DPC'
- (E) XFMR 'TD1' ABOVE
- (E) PANEL 'D1'
- (E) PANEL 'D1A'
- (E) XFMR 'TD2' ABOVE
- (E) PANEL 'D2'
- (E) XFMR 'TE' ABOVE
- (E) PANEL 'E'
- (E) PANEL 'EP'
- (E) AUTOMATIC TRANSFER SWITCH 'AT3'
- REROUTE TWO CONDUITS OVER THE TOP OF THE NEW DOOR. PULL IN NEW CONDUCTORS AS REQUIRED.
- PROVIDE CONNECTION TO GARBAGE DISPOSAL.
- PANEL 'DPD'
- XFMR 'TC' ABOVE. MATCH HEIGHT OF (E) XFMRs.
- PANEL 'F'
- LIGHTING CONTROL GATEWAY



Date Signed: 10/31/2025



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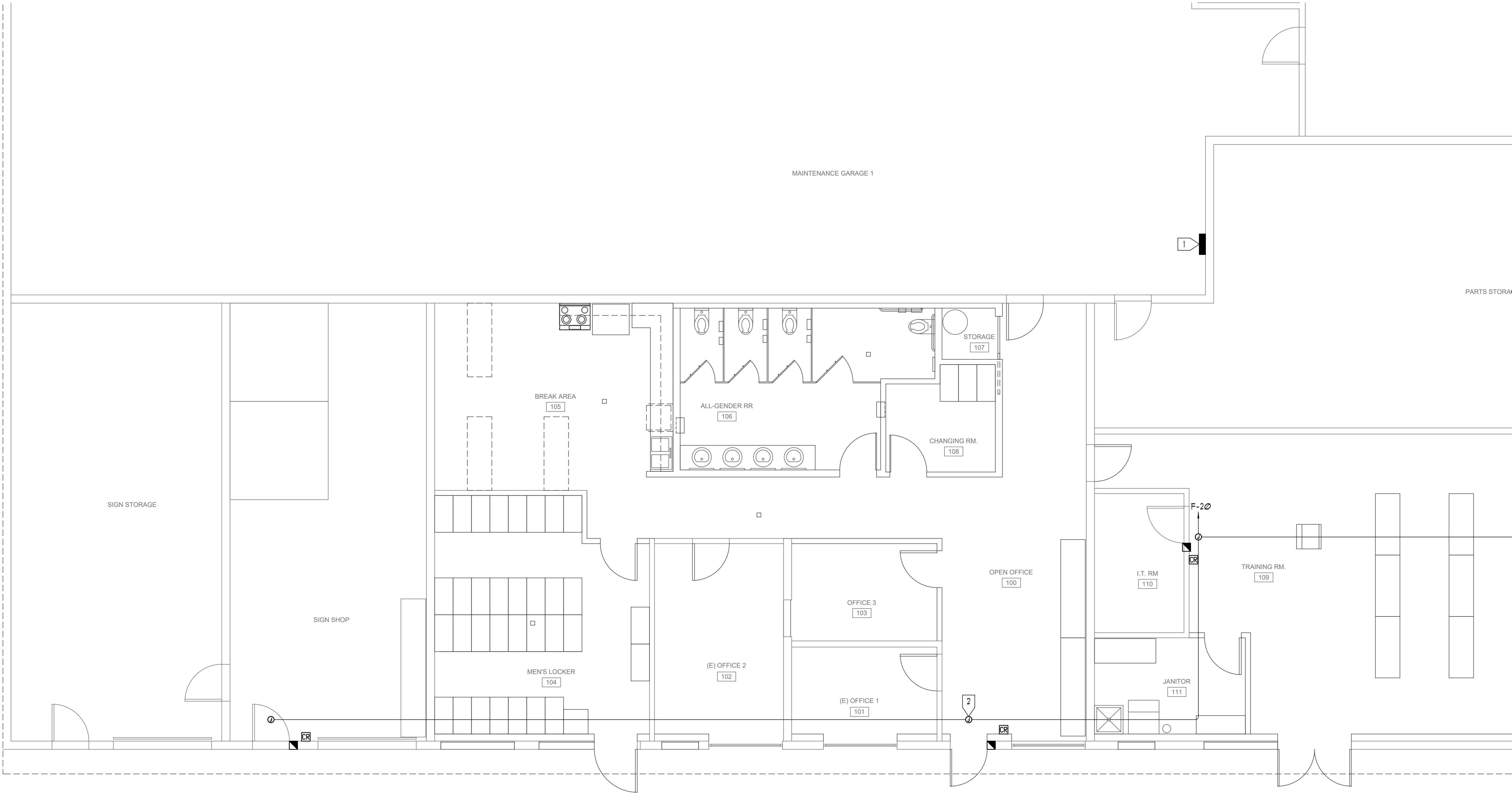
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POWER & SIGNAL PLAN

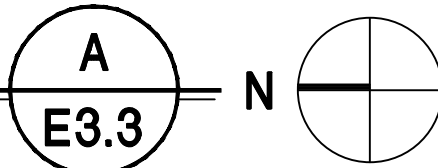
SCALE: 1/4"=1'0"

POWER & SIGNAL NOTES

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- SEAL OPENINGS AND PATCH SURFACES DAMAGED AS A RESULT OF DEMOLITION, RESTORING TO MATCH SURROUNDING SURFACES.
- VERIFY ALL OUTLET LOCATIONS PRIOR TO ROUGH-IN.
- NEW PANELS SHALL HAVE A DEDICATED SPACE FROM THE FLOOR TO A HEIGHT OF 6' ABOVE THE PANEL. THERE SHALL BE NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO THE ELECTRICAL EQUIPMENT OR ARCHITECTURAL APPURTENANCES IN THE DEDICATED SPACE FOR ANY NEW PANELS INSTALLED.

NUMBERED NOTES

- 1 PANEL 1'
- 2 PROVIDE JUNCTION BOX ABOVE CEILING FOR CONNECTION TO ACCESS CONTROL POWER SUPPLY, N.I.E.S., TYP.



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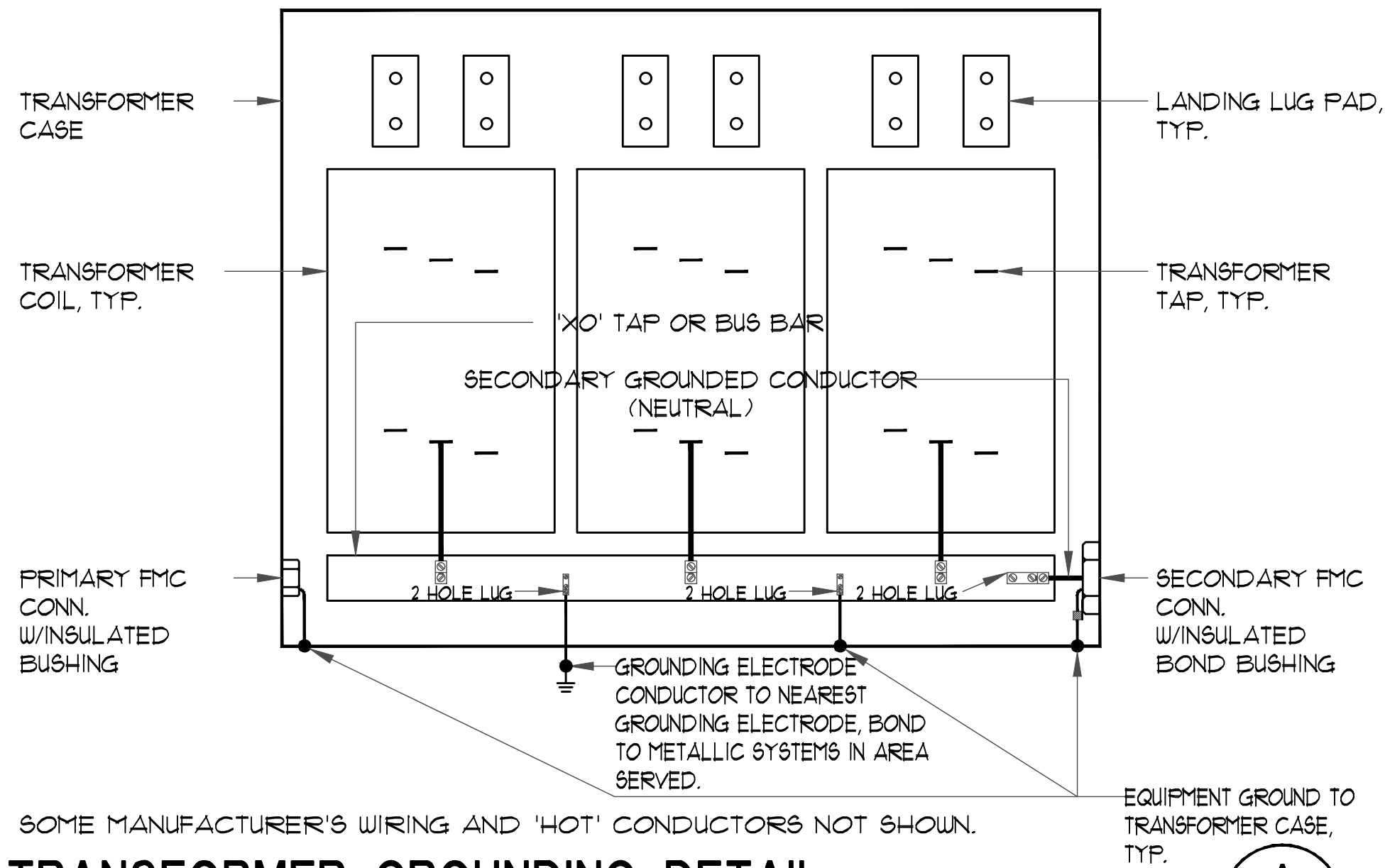
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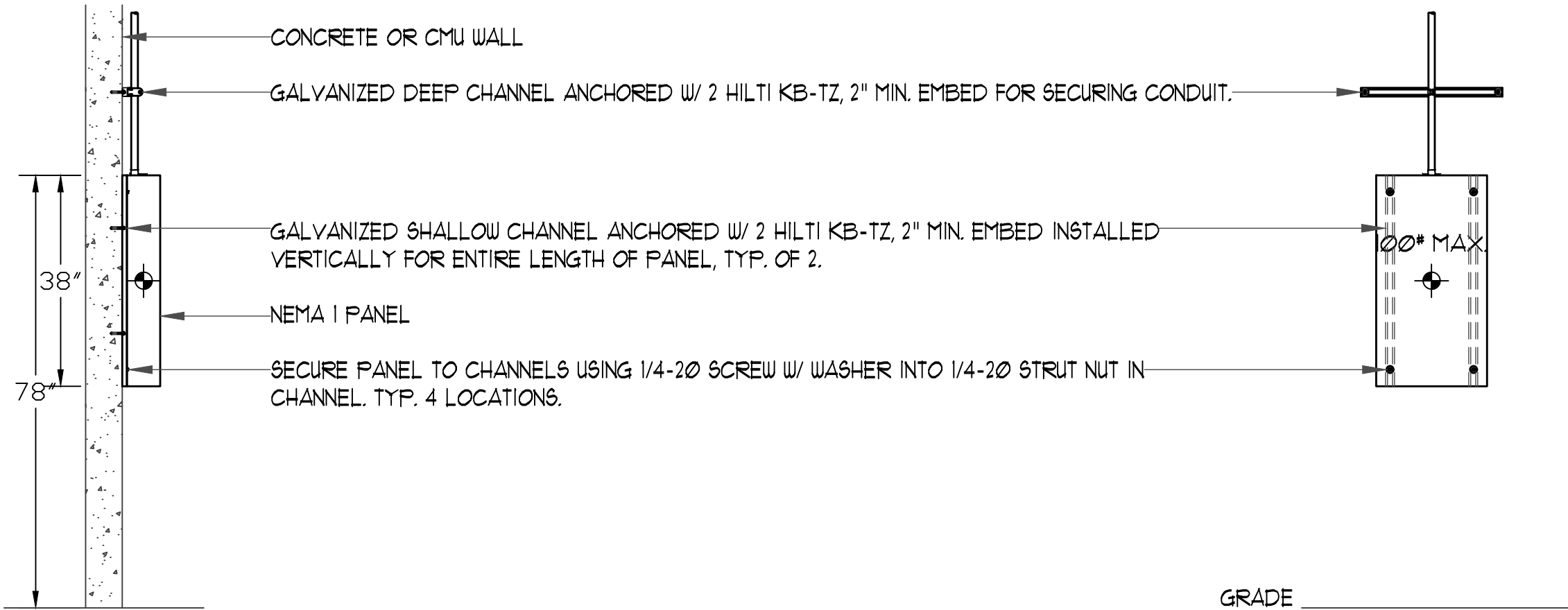


SOME MANUFACTURER'S WIRING AND "HOT" CONDUCTORS NOT SHOWN.

TRANSFORMER GROUNDING DETAIL

NO SCALE

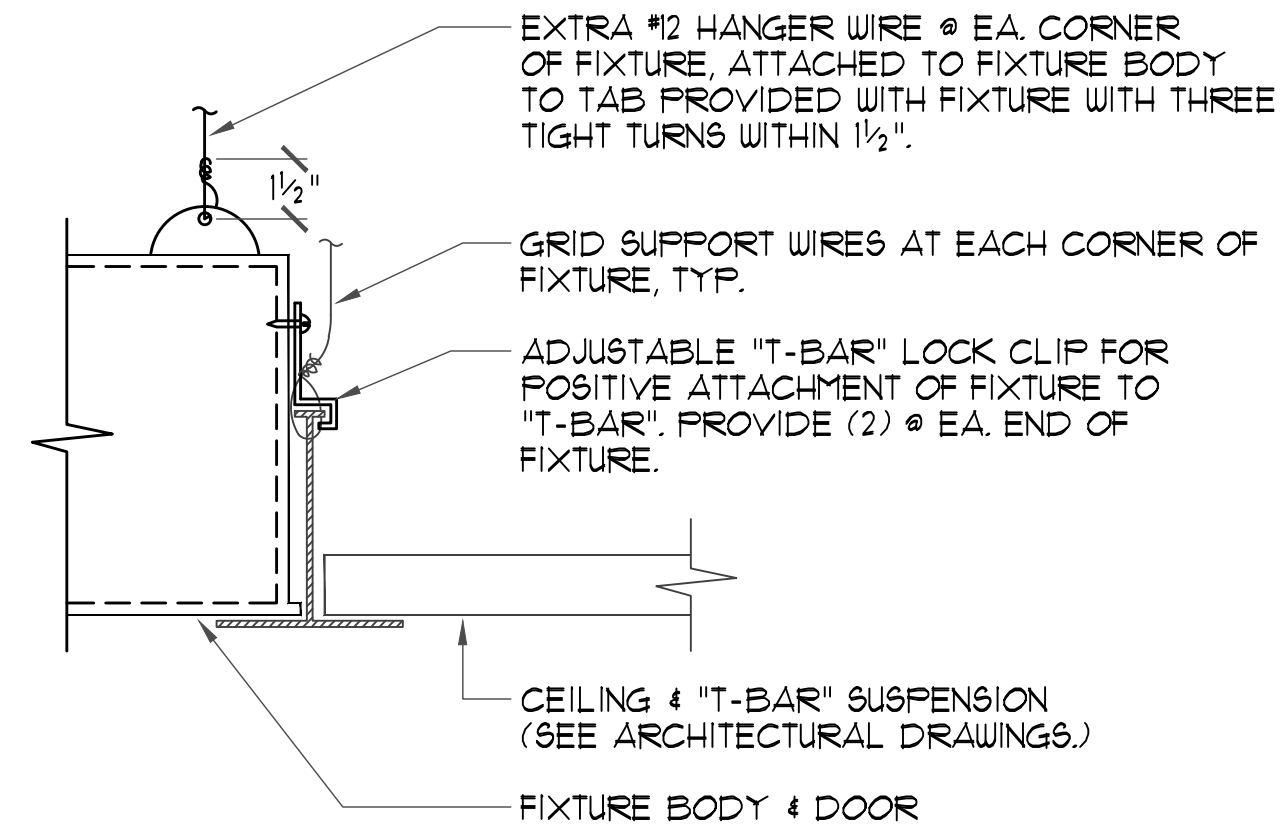
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SURFACE MOUNT EXTERIOR PANEL INSTALLATION DETAIL

NO SCALE

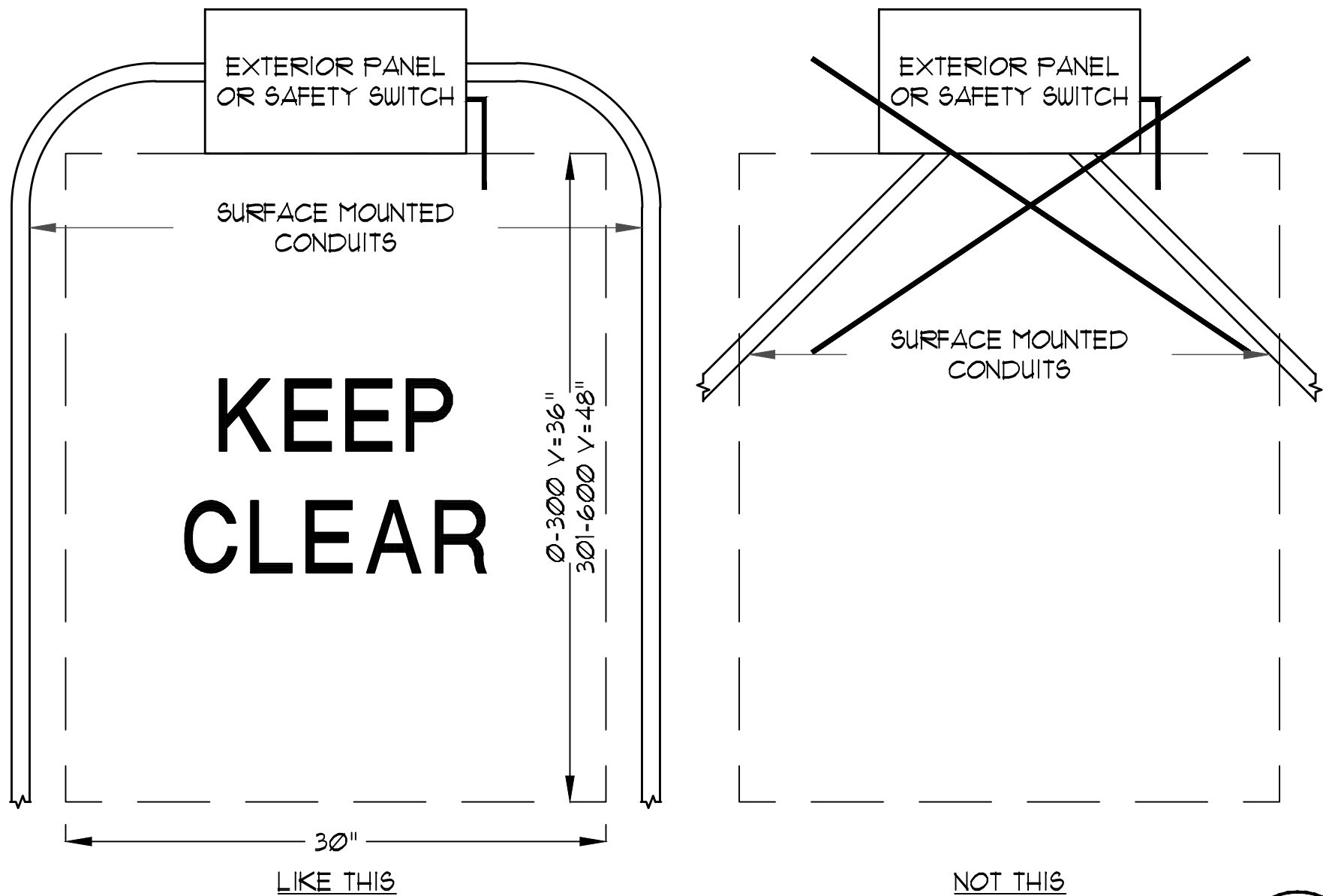
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RECESSED TROFFER DETAIL

NO SCALE

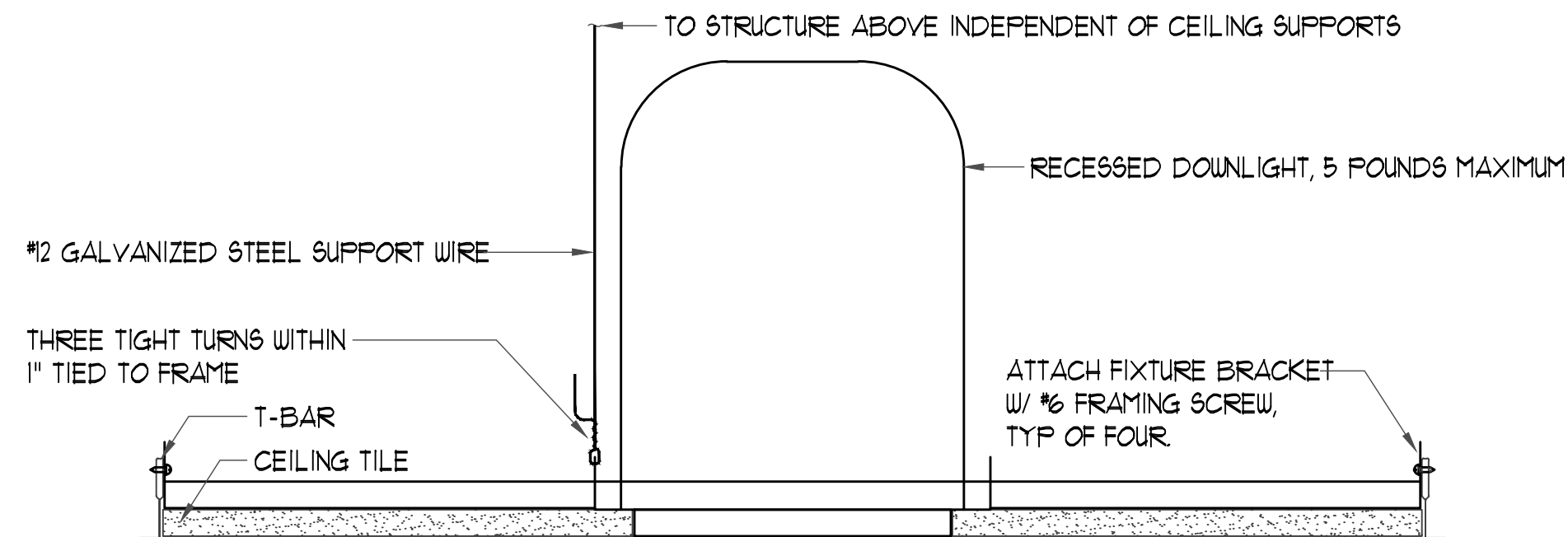
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OUTDOOR PANEL WORKING CLEARANCE DETAIL

NO SCALE

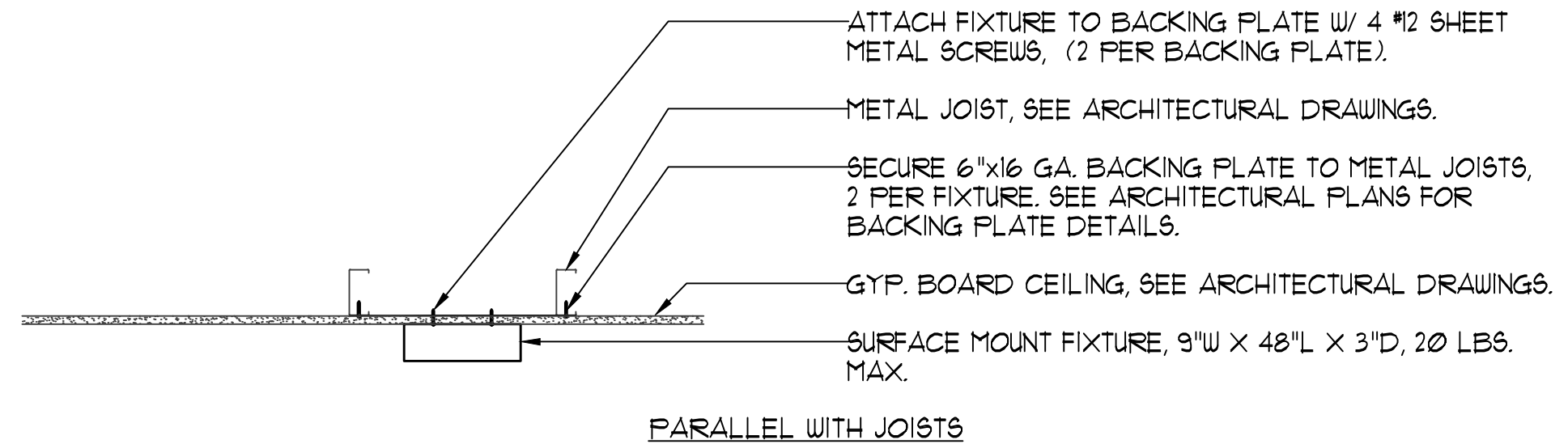
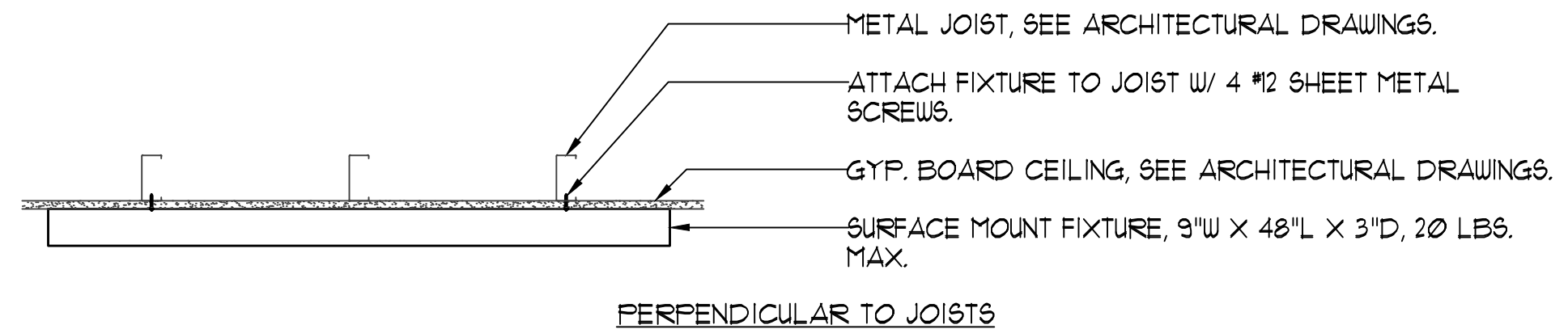
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DOWNLIGHT T-BAR SUPPORT DETAIL

NO SCALE

E
E5.1



SURFACE MOUNTED LIGHT ANCHORAGE DETAIL

NO SCALE

F
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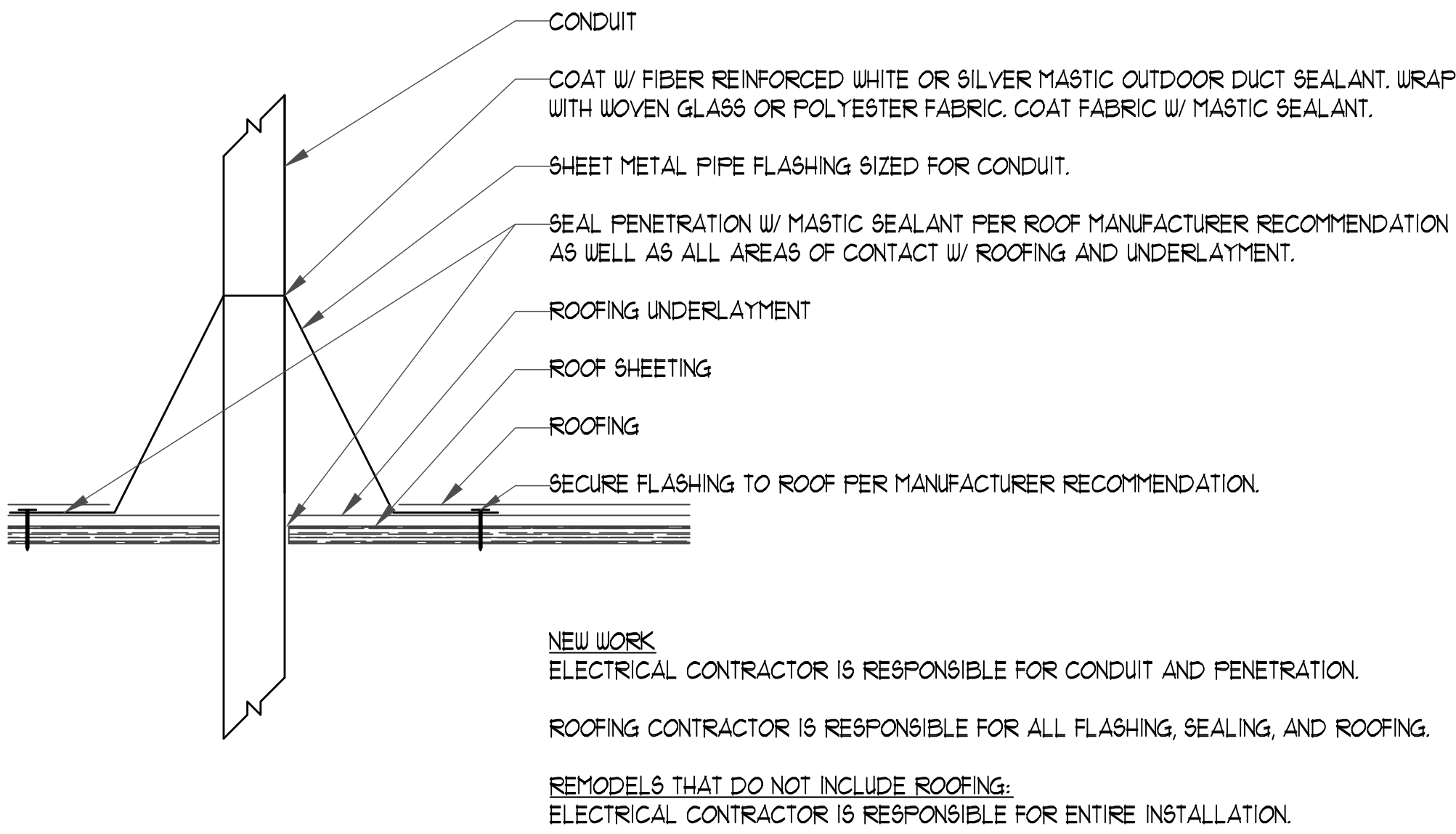
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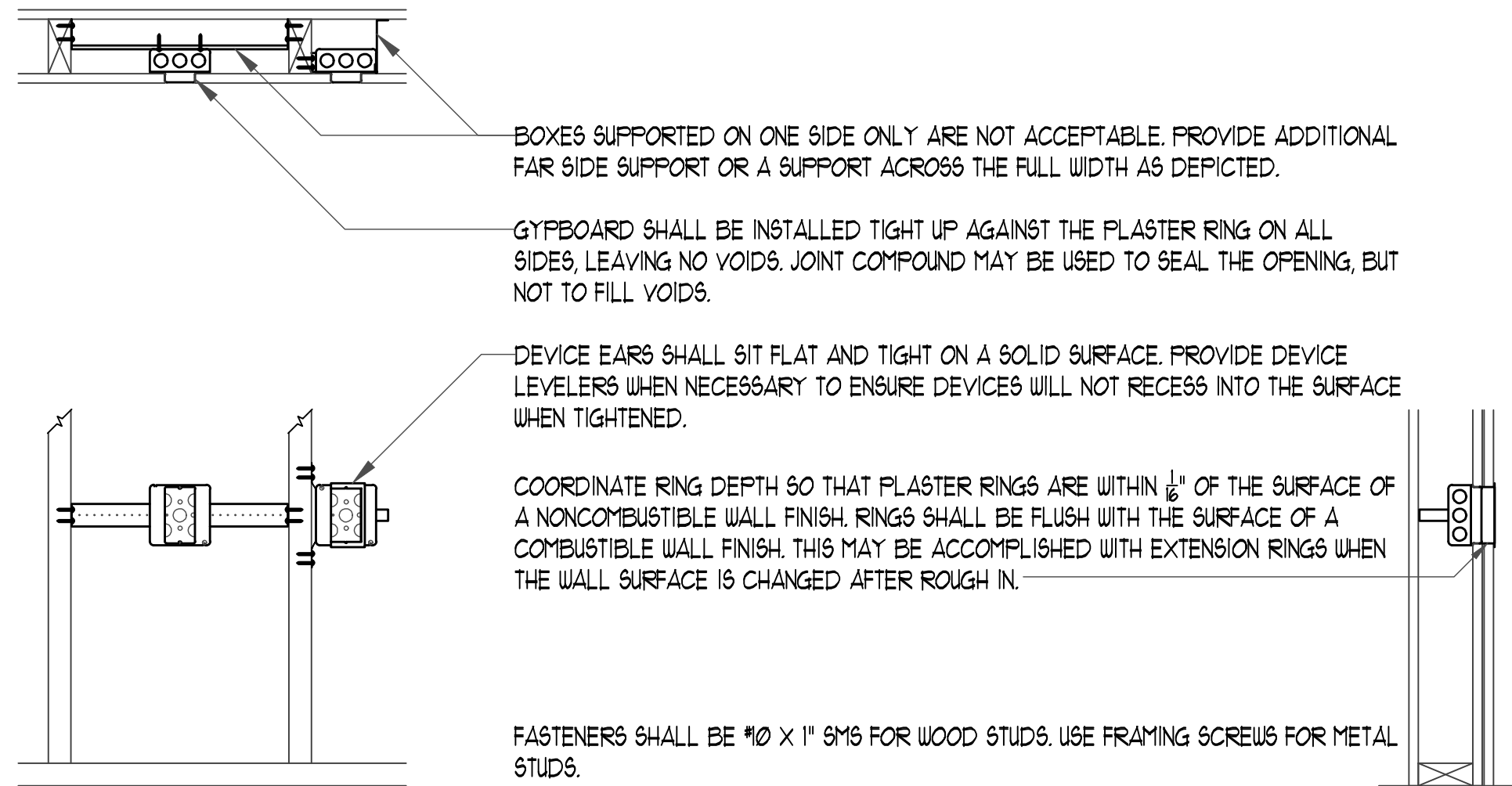
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CONDUIT FLASHING DETAIL

NO SCALE

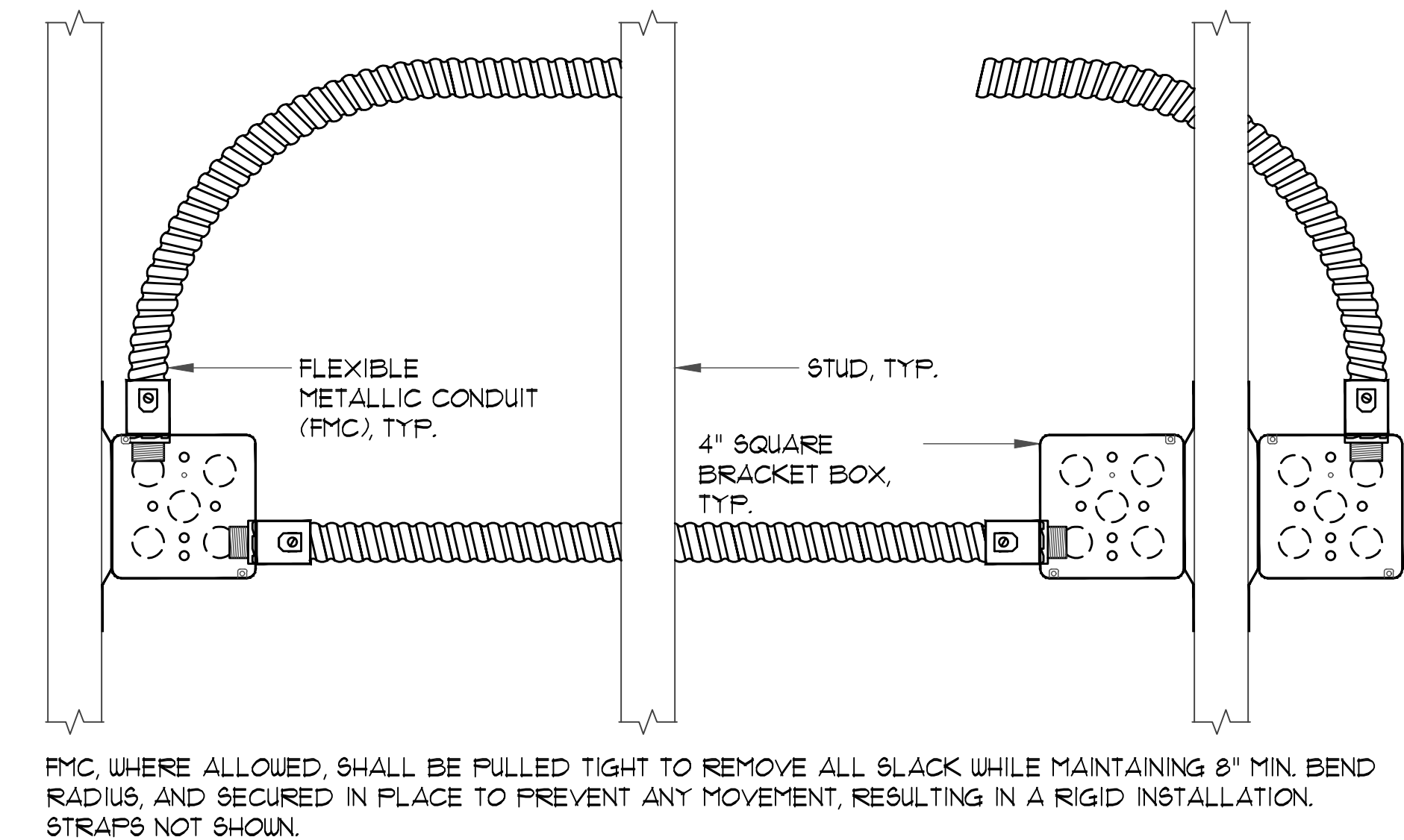
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OUTLET ROUGH IN DETAIL

NO SCALE

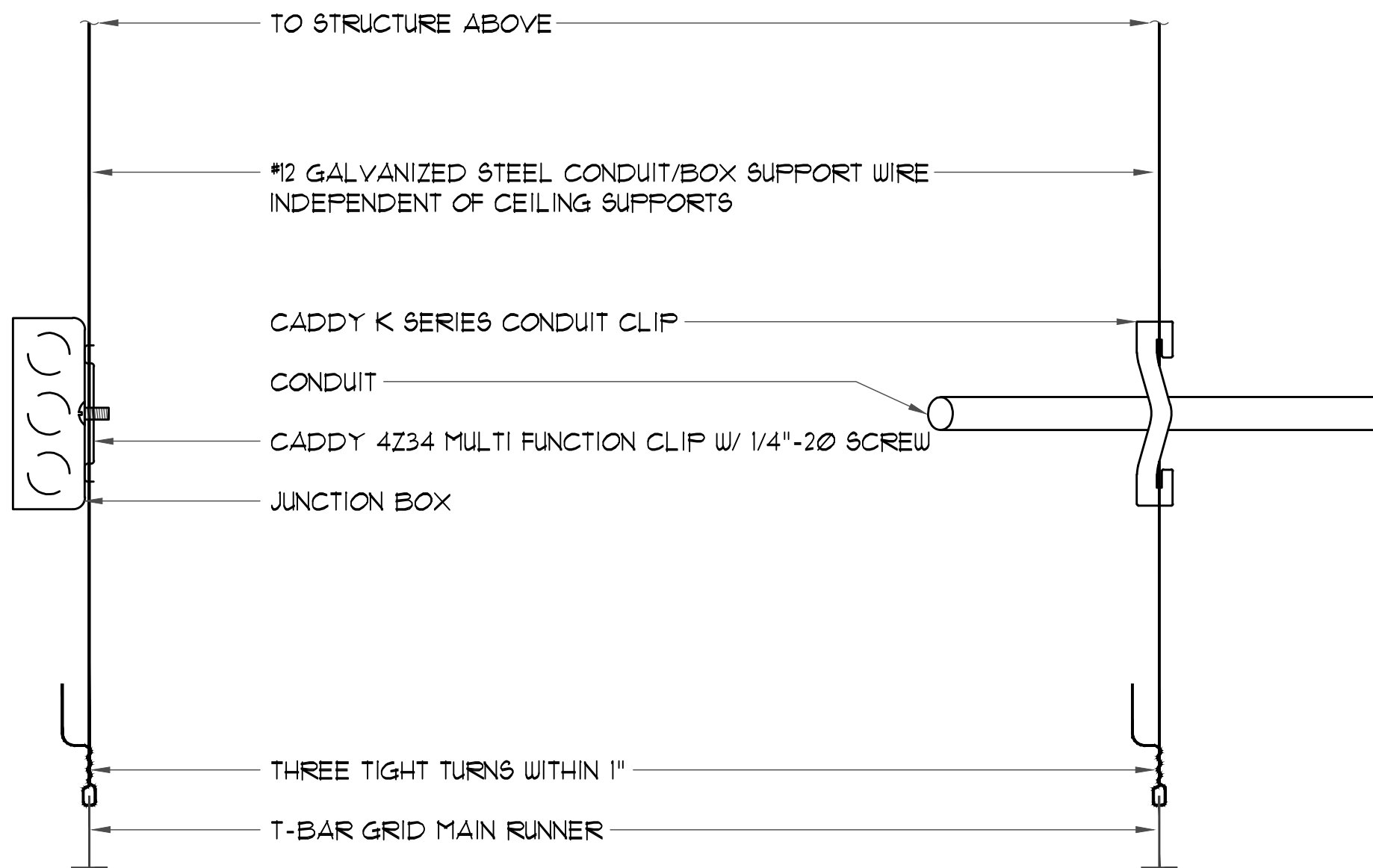
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FLEXIBLE METALLIC CONDUIT ROUGH-IN DETAIL

NO SCALE

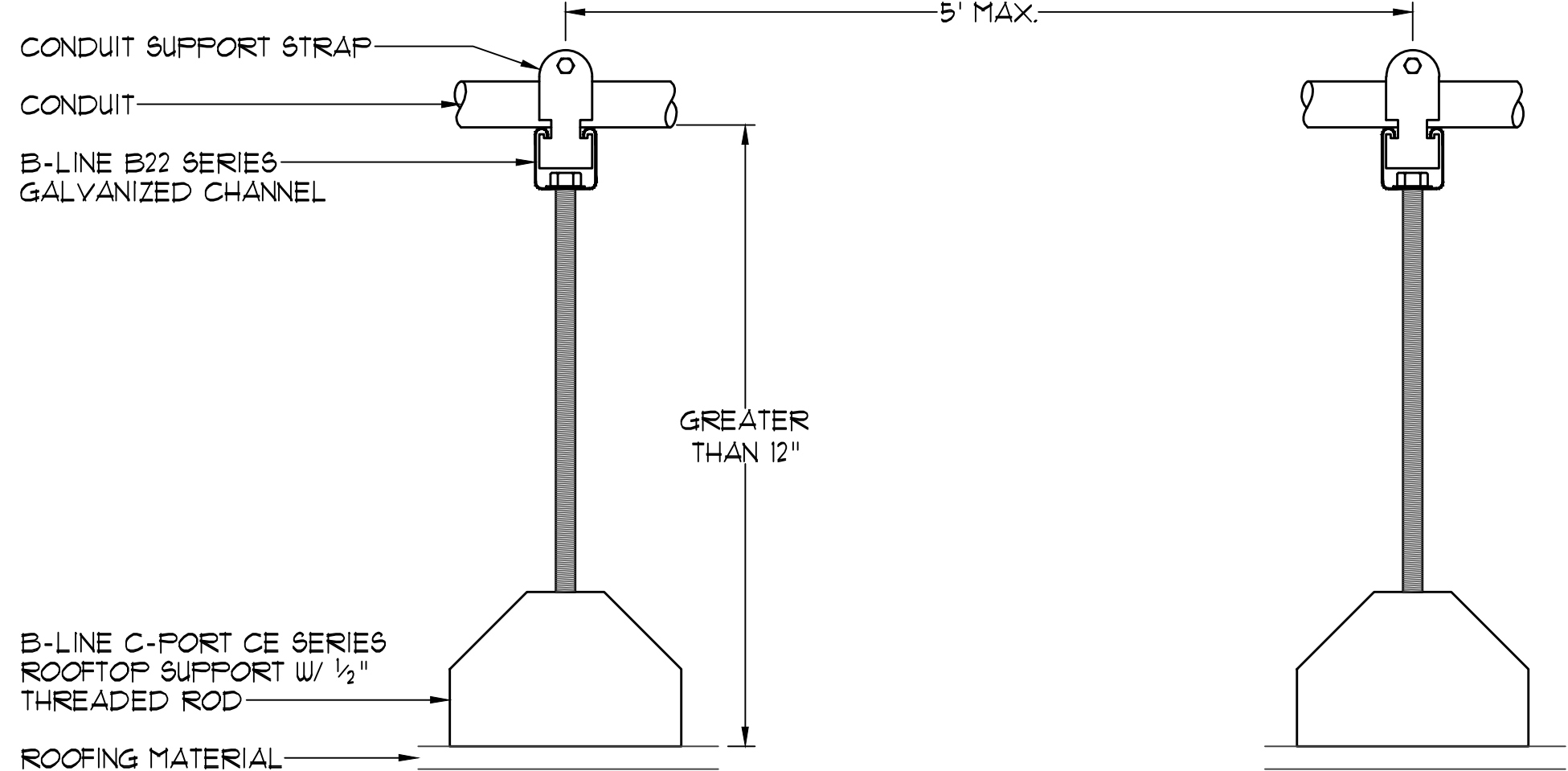
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CONDUIT & BOX SUPPORT DETAIL-ABOVE CEILING

NO SCALE

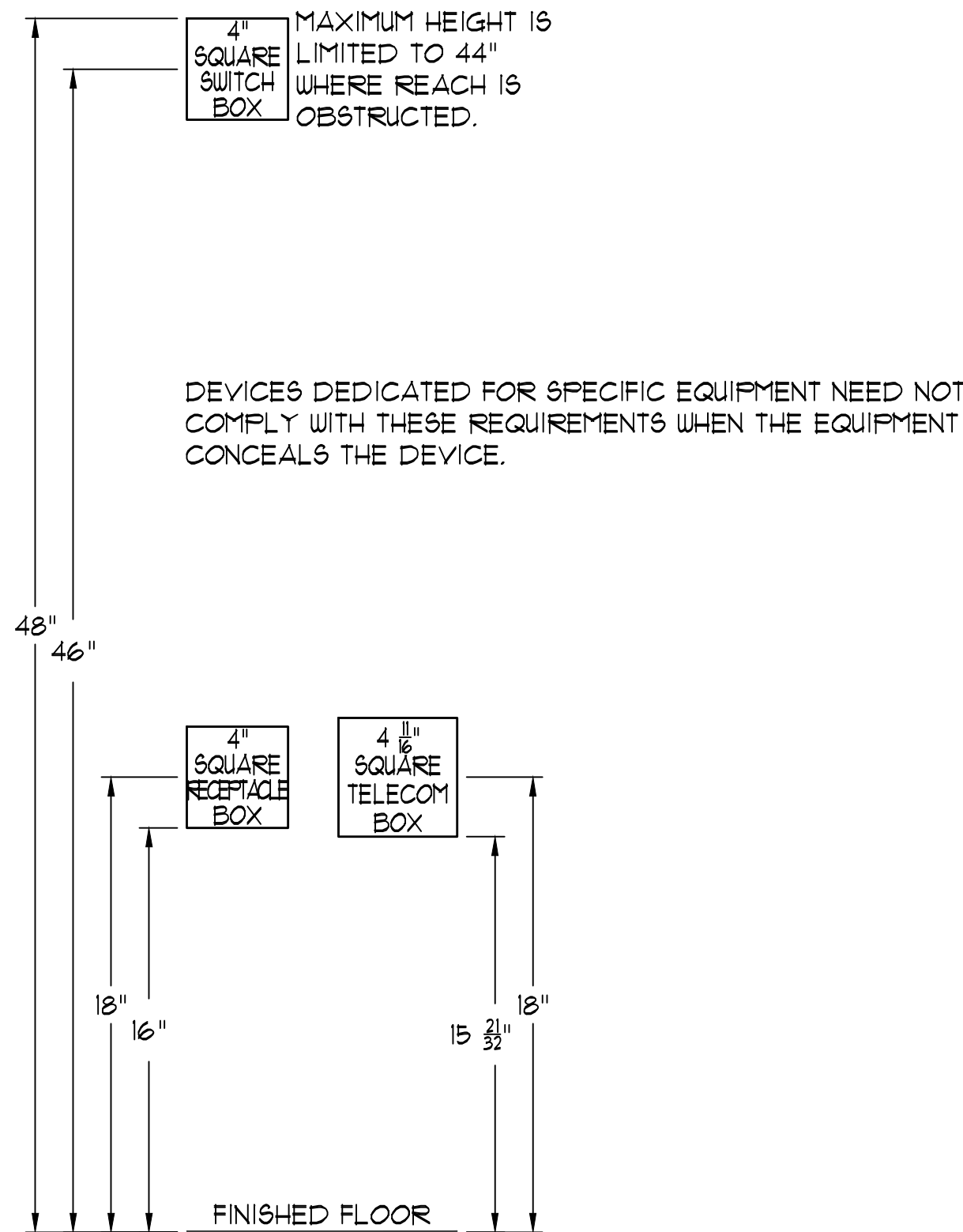
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ROOF CONDUIT SUPPORT DETAIL

NO SCALE

B
E5.2



ACCESSIBLE WIRING DEVICE MTG HEIGHT DETAIL

NO SCALE

F
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