

# VOLUME IV NORTH PLANT ADMINISTRATION OFFICE BUILDING

FOR:

## SOUTH DAVIS SEWER DISTRICT

1800 WEST 1200 NORTH  
WEST BOUNTIFUL, UTAH



ARCHITECT PROJECT #24-001

DATE: MARCH 05, 2024 - BID SET

### GENERAL PROJECT DESCRIPTION:

THE PROJECT IS A NEW 6,541 SF ONE-STORY NORTH PLANT ADMINISTRATION OFFICE BUILDING FOR THE SOUTH DAVIS SEWER DISTRICT. THE PROJECT IS LOCATED AT 1800 WEST 1200 WEST, WEST BOUNTIFUL, UTAH. THE PROJECT CONSISTS OF SITE CLEARING, NEW SITE UTILITIES, NEW SITE WORK AROUND THE NEW OFFICE BUILDING AND THE NEW OFFICE BUILDING. THE SITE WORK, SITE PREPARATION AND SITE UTILITIES ARE SHOWN AS PART OF THE SITE DRAWING NOT CONTAINED IN THIS BUILDING SET OF PLANS. THIS OFFICE BUILDING IS AREA 09 OF THE NORTH DAVIS PLANT UPGRADE. THE MANAGEMENT OF THE PROJECT AND BIDDING OF THE PROJECT IS AQUA ENGINEERING. THE SITE WORK DRAWINGS ARE PART OF THE MASTER SET OF PLANS CREATED BY AQUA ENGINEERING.

## PROJECT MANAGER:

### AQUA ENGINEERING

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## 2021 EDITIION IBC - CODE ANALYSIS

- APPLICABLE CODES:  
CURRENT WEST BOUNTIFUL CITY ORDINANCES  
CURRENT STATE OF UTAH ADOPTED AMENDMENTS  
2021 INTERNATIONAL BLDG CODE (IBC) INCLUDING APPENDIX J  
2021 INTERNATIONAL PLUMBING CODE (IPC)  
2021 INTERNATIONAL FUEL & GAS CODE (IFGC)  
2021 INTERNATIONAL MECHANICAL CODE (IMC)  
2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)  
2020 NATIONAL ELECTRICAL CODE (NEC)  
2010 AMERICANS WITH DISABILITIES ACT ACCESSIBLE GUIDELINES (ADAAG)  
2021 INTERNATIONAL FIRE CODE (IFC)  
ANSI A-117.1/2017 ACCESSIBLE CODE
- THE BLDG IS A 1-STORY ADMINISTRATIVE OFFICE BUILDING FOR THE SEWER DISTRICT OF A BUSINESS B OCCUPANCY. IT ALSO CONTAINS 2 SPACES WITH A-3 OCCUPANCIES. ONE A-3 IS FOR BOARD MEETINGS AND THE OTHER A-3 IS FOR TRAINING SESSIONS FOR EMPLOYEES OF THE DISTRICT.
- MAIN FLOOR AREA:  
BOARD ROOM 565 GROSS SF (458 NET SF)  
TRAINING ROOM 1,050 GROSS SF (940 NET SF)  
OFFICE AREA 4,926 GROSS SF  
TOTAL 6,541 GROSS SF
- THE TYPE OF CONSTRUCTION SHALL BE V-B-NS (NON-RATED AND NON-SPRINKLERED CONSTRUCTION). ALL EXTERIOR AND INTERIOR BEARING WALLS ARE 8" OR 10" CMU. THE ROOF SYSTEM WILL BE WOOD CONSISTING OF PRE-FAB WOOD TRUSSES WITH A WOOD ROOF DECK AND INTERIOR STEEL COLUMN AND PRE-FAB WOOD TRUSS GIRDERS.
- THE BUILDING WILL BE ANALYZED AS A MIXED USE OCCUPANCY WITHOUT OCCUPANCY SEPARATIONS BETWEEN THE A-3 AND B OCCUPANCIES PER SECTION 508.3 & WILL BE ANALYZED PER THE MOST RESTRICTIVE USE = A-3.
- ALLOWABLE HEIGHT PER TABLE 504.3 FOR OCCUPANCY A-3 WITH V-B-NS CONSTRUCTION = 40 FEET & ACTUAL MAXIMUM PARAPET HEIGHT = 20'-11" (10" CMU AREA).
- ALLOWABLE # OF STORIES PER TABLE 504.4 FOR OCCUPANCY A-3 WITH V-B-NS CONSTRUCTION = 1 STORY & ACTUAL IS 1 STORY.
- BASIC ALLOWABLE AREA PER TABLE 506.2 FOR OCCUPANCY A-3 WITH V-B-NS CONSTRUCTION = 6,000 SF PER IBC SECTION 506.3 (FRONTAGE INCREASE) WITH SEPARATION ON ALL 4 SIDES GREATER THAN 60 FEET AND PER TABLE 506.3.3 THE ALLOWABLE AREA WILL BE INCREASED BY 75%  
BASIC ALLOWABLE AREA 6,000 SF  
75% INCREASE DUE TO FRONTAGE (75%) 4,500 SF  
ALLOWABLE AREA 10,500 SF AND ACTUAL = 6,541 SF (OK).
- NO OCCUPANCY SEPARATIONS ARE REQUIRED PER SECTION 508.3.
- CONSTRUCTION IS TO MEET THE REQUIREMENTS OF CHAPTER 6 AND TABLE 601 TYPE V-B-NS = 0 RATING.
- EXTERIOR WALLS MAY BE 0 RATING PER SECTION 704.10 & TABLE 705.5 SEPARATION > 30 FT.
- PER TABLE 705.8, THE BUILDING MAY HAVE UNLIMITED UN-PROTECTED OPENINGS FOR UP/NS > 30 FT.
- PER SECTION 705.11 EXCEPTION #1, A PARAPET IS NOT REQUIRED ON THE BUILDING.
- PER CHAPTER 8, TABLE 803.13 SPRINKLERED, ALL INTERIOR WALL & CEILING FINISH MATERIALS WILL BE CLASS C.
- REQUIRED # OF EXITS & WIDTH PER TABLES 1004.1.2, 1006.2.1 & 1006.3.2(2):  
TRAINING ROOM = 940 NET SF / 15 = 63 OCC / 2 EXITS REQ'D & 2 PROVIDED, WIDTH = 9 FT (3 DRS)  
BOARD ROOM = 458 NET SF / 15 = 31 OCC / 1 EXIT REQ'D & 1 PROVIDED, WIDTH = 3 FT (1 DR)  
COMBINED TRAINING ROOM + BOARD ROOM =  
OFFICE AREA = 1,398 NET SF / 15 = 94 OCC / 3 EXITS REQ'D & 2 PROVIDED, WIDTH = 15 FT (4 DRS)  
TOTAL BLDG = 127 OCCUPANTS = 2 EXITS REQ'D & 4 PROVIDED (= 15 FT (4 DRS)).
- MAXIMUM COMMON PATH OF EGRESS TRAVEL PER TABLE 1006.2.1 FOR A OCCUPANCIES = 75 FT (NON-SPRINKLERS) AND FOR B OCCUPANCIES = 100 FT (NON-SPRINKLERS), MAXIMUM EXIT TRAVEL DISTANCE PER TABLE 1006.3.4(2) FOR SPACES WITH ONE EXIT = 75 FT BOTH A-3 AND B OCCUPANCIES, AND MAXIMUM TRAVEL DISTANCE PER TABLE 1017.2 = 200 FT FOR BOTH A-3 AND B OCCUPANCIES. ALL SPACES MEET THESE REQUIREMENTS. REFER TO EXIT PLAN DIAGRAM ON SHEET A-09A300.
- EXIT SIGNS PER SECTION 1013 AND EXIT ILLUMINATION PER SECTION 1008 WILL BE PROVIDED. REFER TO PLANS.
- THE BUILDING MEETS ACCESSIBILITY REQUIREMENTS PER CHAPTER 11 AND ICCANSI A117.1-201. ALL MAIN FLOOR BUILDING ENTRANCES ARE ACCESSIBLE AND HAVE ACCESSIBLE PARKING SPACES SERVED BY AN ACCESSIBLE PATH. REFER TO ARCHITECTURAL SITE PLAN SHEET 09A200. ACCESSIBLE PUBLIC TOILET ROOMS ARE ON THE MAIN FLOOR. AN ADDITIONAL ACCESSIBLE UNISEX SPACE IS LOCATED WITHIN THE OFFICE AREA.
- PLUMBING FIXTURES REQUIRED PER IBC CHAPTER 29 AND TABLE 2902.1 FOR CLASSIFICATION #1 (ASSEMBLY) AND #2 (BUSINESS):  
#1 - ASSEMBLY OCCUPANTS = 63 + 31 = 94 OCCUPANTS - FIXTURES ARE PROVIDED EQUALLY BETWEEN FEMALE & MALE OCCUPANTS = 94 / 2 = 47 MEN AND 47 WOMEN  
WCS REQ'D = 1 / 125 OCC (MEN) = 1 WC REQUIRED  
WCS REQ'D = 1 / 65 OCC (WOMEN) = 1 WC REQUIRED  
LAVS REQ'D = 1 / 200 OCC = 47 / 100 = 1 LAV REQUIRED EACH = (1 M + 1 W)  
DFS REQ'D = 1 / 500 OCC = 94 / 100 = 1 DF REQUIRED  
SSS REQ'D = 1 REQUIRED  
#2 - BUSINESS OCCUPANTS = 33 OCCUPANTS - FIXTURES ARE PROVIDED EQUALLY BETWEEN FEMALE & MALE OCCUPANTS = 33 / 2 = 17 MEN AND 17 WOMEN  
WCS REQ'D = 1 / 25 OCC = 17 / 25 = 1 WC REQUIRED EACH = (1 M + 1 W)  
LAVS REQ'D = 1 / 40 OCC = 17 / 40 = 1 LAVS REQUIRED EACH = (1 M + 1 W)  
DFS REQ'D = 1 / 100 OCC = 33 / 100 = 1 DF REQUIRED  
SSS REQ'D = 1 REQUIRED
- TOTAL REQUIRED / TOTAL PROVIDED  
NOTE THE USES A-3 OCCUPANCY USES MAY NOT OCCUR AT THE SAME TIME (A-S AT NIGHT AND B DURING THE DAY + TRAINING SESSIONS MAY TYPICALLY INCLUDE THE B OCCUPANCIES  
WCS REQ'D = 2M + 2W = 4 WCS REQ'D AND 3 WCS PROVIDED - PER IPC SECTION 424.2 1 URINAL  
IN MEN'S TOILET MAY BE SUBSTITURE FOR 1 WC + 1 WC IN UNISEX TOILET  
LAVS REQ'D = 2M + 2W = 8 LAVS REQ'D AND 5 LAVS (4 IN PUBLIC TOILETS + 1 IN UNISEX)  
DFS REQ'D = 2 REQ'D AND 2 PROVIDED (HILO EVC) + 1 BREAK ROOM SINK = 3 TOTAL PROVIDED  
SSS REQ'D = 1 SSS REQ'D FOR EACH OCCUPANCY AND 1 IS PROVIDED

## SCHEDULE OF DRAWINGS

SHT #	TITLE	SHEET DESCRIPTION
001	09A001	TITLE SHEET, PROJECT INFORMATION & BUILDING CODE ANALYSIS
002	09A100	ARCHITECTURAL SPECIFICATIONS
003	09A101	ARCHITECTURAL SPECIFICATIONS
004	09A102	ARCHITECTURAL SPECIFICATIONS
005	09A103	ARCHITECTURAL SPECIFICATIONS
006	09A104	ARCHITECTURAL SPECIFICATIONS
007	09A105	ARCHITECTURAL SPECIFICATIONS
008	09A106	ARCHITECTURAL SPECIFICATIONS
009	09A200	ARCHITECTURAL SITE PLAN & SITE DETAILS
010	09A201	MONUMENT SIGN & CARPORT DETAILS
011	09A300	BUILDING EXIT PLAN
012	09A303	FLOOR PLAN AND WALL TYPES
013	09A302	DIMENSION FLOOR PLAN & STEEL FRAMING SCHEDULES
014	09A303	TYPICAL WALL DETAILS
015	09A304	REFLECTED CEILING PLAN
016	09A400	ROOF PLAN AND ROOF DETAILS
017	09A401	ROOF DETAILS
018	09A500	INTERIOR FINISH SCHEDULE
019	09A501	INTERIOR FINISH FLOOR PLAN
020	09A502	ENLARGED TOILET ROOM PLANS & ADA DETAILS
021	09A503	INTERIOR MILLWORK ELEVATIONS
022	09A600	DOOR SCHEDULE, TYPES AND DETAILS
023	09A601	DOOR DETAILS
024	09A602	DOOR DETAILS
025	09A603	WINDOW SCHEDULE, TYPES AND DETAILS
026	09A700	EAST & SOUTH BLDG ELEVATIONS & ENTRY SECTIONS
027	09A701	WEST & NORTH BLDG ELEVATIONS & WALL SECTIONS
028	09A800	EAST-WEST BLDG SECTIONS & WALL SECTIONS
029	09A801	NORTH-SOUTH BLDG SECTIONS
030	09S101	STRUCTURAL GENERAL NOTES
031	09S102	STRUCTURAL GENERAL NOTES
032	09S202	FOOTING & FOUNDATION PLAN & SCHEDULES
033	09S203	ROOF FRAMING PLAN & MASONRY SCHEDULES
034	09S901	FOOTING & FOUNDATION DETAILS
035	09S902	FOOTING & FOUNDATION DETAILS
036	09S903	MASONRY WALL DETAILS
037	09S904	ROOF FRAMING DETAILS
038	09S905	STEEL COLUMN DETAILS AND SCHEDULES
039	09M101	FLOOR PLAN - MECHANICAL
040	09M102	ROOF PLAN - MECHANICAL
041	09M201	MECHANICAL NOTES & DETAILS
042	09M301	MECHANICAL SCHEDULES
043	09P101	FLOOR PLAN - WASTE AND VENT PIPING
044	09P102	ROOF PLAN - WASTE AND VENT PIPING
045	09P103	FLOOR PLAN - WATER AND GAS PIPING
046	09P201	PLUMBING SYMBOLS AND PLUMBING CALCULATIONS
047	09P202	PLUMBING NOTES
048	09P203	PLUMBING DETAILS
049	09P301	PLUMBING FIXTURE SCHEDULES
050	09P302	PLUMBING FIXTURE SCHEDULES
051	09E001	ELECTRICAL SYMBOLS AND NOTES
052	09E002	ELECTRICAL SCHEDULES AND NOTES
053	09E003	ELECTRICAL SPECIFICATIONS
054	09E004	TELECOM SPECIFICATIONS
055	09E005	ELECTRICAL DIAGRAMS
056	09E006	ELECTRICAL DIAGRAMS
057	09E007	SECURITY SYMBOLS, SCHEDULES AND NOTES
058	09E008	SECURITY DIAGRAMS
059	09E009	SECURITY SPECIFICATIONS
060	09E101	ELECTRICAL SITE PLAN
061	09E201	LIGHTING PLAN
062	09E301	POWER PLAN
063	09E320	ONE-LINE DIAGRAM & PANELBOARD SCHEDULES
064	09E401	FIRE ALARM & SECURITY PLAN
065	09T001	AUDIO-VISUAL SYMBOLS AND NOTES
066	09T002	AUDIO-VISUAL SCHEDULES
067	09T201	AUDIO-VISUAL REFLECTED CEILING PLAN
068	09T301	AUDIO-VISUAL FLOOR PLAN

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DIVISION 10. SPECIALTIES (CONTINUED)

FLAGPOLE SPECIFICATIONS:

PROVIDE ONE ALUMINUM FLAGPOLE AS SHOWN ON DRAWING AND AS SPECIFIED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION. FLAGPOLE SHALL BE MANUFACTURER, SUBJECT TO COMPLIANCE WITH REQUIREMENTS, SHALL BE: AMERICAN FLAGPOLE (OR APPROVED EQUIVALENT), 26252 HILLMAN HIGHWAY ARLINGTON, VA 24210, 1.800.368.7171 (TELEPHONE). WWW.AMERICANFLAGPOLE.COM. LOCAL SUPPLIER IS COLONIAL FLAG IN SANDY, UTAH. STRUCTURAL PERFORMANCE: PROVIDE FLAGPOLES CAPABLE OF WITHSTANDING THE EFFECTS OF WIND LOADS AS DETERMINED ACCORDING TO NAAMM FP 1001-07. "GUIDE SPECIFICATIONS FOR DESIGN OF METAL FLAGPOLES" OR TO SPECIFIED WIND SPEED, WHICHEVER IS MORE STRINGENT. BASE FLAGPOLE DESIGN ON MAXIMUM STANDARD SIZE NYLON FLAG SUITABLE FOR USE WITH POLE OR FLAG SIZE INDICATED, WHICHEVER IS MORE STRINGENT. PROVIDE PRODUCT DATA FOR EACH TYPE OF FLAGPOLE REQUIRED, SUBMIT MANUFACTURER'S TECHNICAL DATA AND STANDARD INSTALLATION INSTRUCTIONS. ON SHOP DRAWINGS, SHOW GENERAL LAYOUT, JOINTING, ANCHORAGE, SUPPORT SYSTEMS, AND ACCESSORIES. PROVIDE FINISH SAMPLES FOR EACH FINISHED METAL USED ON FLAGPOLES, AS MAY BE REQUIRED. OBTAIN FLAGPOLE AS A COMPLETE UNIT FROM MANUFACTURER, INCLUDING FITTINGS, ACCESSORIES, BASES, AND ANCHORAGE DEVICES. SPIRAL WRAP FLAGPOLES WITH A HEAVY KRAFT PAPER OR OTHER LIGHTWEIGHT WRAPPING AND ENCLOSE IN A HARD FIBER TUBE OR OTHER PROTECTIVE MEANS. STORE BARE FLAGPOLES IN A DRY LOCATION, PROTECTED FROM THE WEATHER AND MOISTURE, AS RECOMMENDED BY THE MANUFACTURER. SHIP TO PROJECT SITE IN ONE PIECE OR AS SPECIFIED. IF MORE THAN ONE PIECE IS NECESSARY, PROVIDE SNUG FITTING PRECISION JOINTS WITH SELF-ALIGNING, INTERNAL SPLICING SLEEVE ARRANGEMENTS FOR WEATHER TIGHT, HAIRLINE FIELD JOINTS.

ALUMINUM FLAGPOLE CONSTRUCTION; FABRICATE FROM SEAMLESS, EXTRUDED TUBING COMPLYING WITH ASTM B 221, ALLOY 6063-T6, HAVING A TENSILE STRENGTH NOT LESS THAN 30,000 PSI WITH A YIELD POINT OF 25,000 PSI. HEAT TREAT AFTER FABRICATION TO COMPLY WITH ASTM B 597, TEMPER T6. PROVIDE CONE-TAPERED FLAGPOLES, PER MANUFACTURER'S STANDARD RATE OF TAPER. ASSEMBLY CONSTRUCTION: 11WV FLAGPOLE, 35 FEET NOMINAL MOUNTING HEIGHT, WITH A MINIMUM BASE WALL THICKNESS OF 0.156 INCHES, AND A 7 INCH BUTT DIAMETER. SHIP TO PROJECT SITE IN ONE PIECE. BASE PLATE SHALL BE CAST ALUMINUM SHOE BASE FOR ANCHOR BOLT MOUNTING, WITH (4) FOUR GALVANIZED STEEL ANCHOR BOLTS AND HEX NUTS, AS REQUIRED. FINAL BALL SHALL BE MANUFACTURER'S STANDARD FLUSH SEAM BALL, SIZED AS INDICATED OR, IF NOT INDICATED, TO MATCH POLE BUTT DIAMETER. SPUN ALUMINUM WITH GOLD ANODIZED FINISH. INTERNAL HALYARD TRUCK ASSEMBLY WITH HOOD FOR CABLE; CAST ALUMINUM NON-FOULING REVOLVING WITH SINGLE PULLEY MOUNTED INSIDE HOOD, STAINLESS STEEL ROLLER BEARINGS, THREADED SPINDLE FOR ATTACHMENT TO TOP OF POLE, AND BRONZE EXIT BUSHING FOR HALYARD. PROVIDE WITH STAINLESS STEEL BALL BEARINGS. INTERNAL ROPE HALYARD ASSEMBLY: 5/16" (8 MM) DIAMETER, BRAIDED POLYPROPYLENE HALYARD, PLASTIC COATED COUNTERWEIGHT AND SLING ASSEMBLY. CAM CLEAT WITH STAINLESS STEEL FASTENERS MOUNTED TO ALUMINUM PLATE. CAM CLEAT SHALL BE CONCEALED INSIDE THE FLAGPOLE BEHIND A FLUSH ACCESS DOOR HAVING A CYLINDER LOCK AND CONTINUOUS PIANO HINGE. INTERNAL HALYARD, WINCH SYSTEM: 1/8" (3 MM) STAINLESS STEEL AIRCRAFT CABLE WITH PLASTIC COATED COUNTERWEIGHT AND BEADED SLING ASSEMBLY. MECHANICAL WINCH HAVING AUTOMATIC BRAKE SYSTEM AND OPERATED WITH A REMOVABLE HAND CRANK. WINCH SHALL BE CONCEALED INSIDE THE FLAGPOLE BEHIND A FLUSH ACCESS DOOR HAVING A CYLINDER LOCK AND CONTINUOUS PIANO HINGE. HALYARD FLAG SNAPS; PROVIDE 2 SWIVEL SNAP HOOKS PER HALYARD AS FOLLOWS: CHROME PLATED BRONZE, PROVIDED WITH NEOPRENE OR VINYL COVERS. WINCH: MANUALLY OPERATED WINCH SYSTEM WITH REMOVABLE HANDLE. COLLAR: MANUFACTURER'S STANDARD SPUN ALUMINUM FLUSH COLLAR TO MATCH FLAGPOLE. CONCRETE: COMPLY WITH REQUIREMENTS OF DIVISION 3 SECTION "CAST IN PLACE CONCRETE".

METAL FINISHES, GENERAL; COMPLY WITH NAAMMS "METAL FINISHES MANUAL FOR ARCHITECTURAL AND METAL PRODUCTS" FOR RECOMMENDATIONS FOR APPLYING AND DESIGNATING FINISHES. ALUMINUM; FINISH DESIGNATIONS PREFIXED BY "A" CONFORM TO THE SYSTEM ESTABLISHED BY THE ALUMINUM ASSOCIATION FOR DESIGNATING ALUMINUM FINISHES. NATURAL SATIN FINISH; PROVIDE DIRECTIONAL SANDED SATIN FINISH (AA-M3); BUFF COMPLYING WITH AA-M20. BRONZE ANODIC FINISH FOR FINAL: AA-M3C22A43 (MECHANICAL FINISH; MEDIUM SATIN, CHEMICAL FINISH; ETCHED, MEDIUM MATTE, ANODIC COATING; ARCHITECTURAL CLASS 1, IMPREGNATED COLOR COATING 0.018 MM OR THICKER) COMPLYING WITH ANMMA 611; GOLD COLOR. INSTALL PER FLAGPOLE DETAIL FOR FOUNDATION. EXCAVATE TO NEAT CLEAN LINES IN UNDISTURBED SOIL. REMOVE LOOSE SOIL AND FOREIGN MATTER FROM EXCAVATION AND MOISTEN EARTH BEFORE PLACING CONCRETE. PROVIDE FORMS WHERE REQUIRED DUE TO UNSTABLE SOIL CONDITIONS AND FOR PERIMETER OF FLAGPOLE BASE AT GRADE. SECURE FORMS, FOUNDATION TUBE, FIBERGLASS SLEEVE, OR ANCHOR BOLTS IN POSITION, BRACED TO PREVENT DISPLACEMENT DURING CONCRETING. PLACE CONCRETE IMMEDIATELY AFTER MIXING. COMPACT CONCRETE IN PLACE BY USING VIBRATORS. MOIST-CURE EXPOSED CONCRETE FOR NOT LESS THAN 7 DAYS OR USE A NON-STAINING CURING COMPOUND. TROWEL EXPOSED CONCRETE SURFACES TO A SMOOTH, DENSE FINISH, FREE OF TROWEL MARKS AND UNIFORM IN TEXTURE AND APPEARANCE. PROVIDE POSITIVE SLOPE FOR WATER RUNOFF TO BASE PERIMETER. INSTALL FLAGPOLES WHERE SHOWN AND ACCORDING TO SHOP DRAWINGS AND MANUFACTURER'S WRITTEN INSTRUCTIONS. FOUNDATION TUBE INSTALLATION; INSTALL FLAGPOLE IN FOUNDATION TUBE, SEATED ON BOTTOM PLATE BETWEEN STEEL CENTERING WEDGES. PLUMB FLAGPOLE AND INSTALL HARDWOOD WEDGES TO SECURE FLAGPOLE IN PLACE. PLACE AND COMPACT SAND IN FOUNDATION TUBE AND REMOVE HARDWOOD WEDGES. SEAL TOP OF FOUNDATION TUBE WITH A 2-INCH (50 MM) LAYER OF ELASTOMETRIC SEALANT AND COVER WITH FLASHING COLLAR. BASE PLATE INSTALLATION; INSTALL BASE PLATE OVER ANCHOR BOLTS AND TIGHTEN RETAINING NUTS AND GROUT AROUND BASE WITH 45 DEGREE SLOPE FOR WATER RUNOFF.

FIXED MARKERBOARDS :

PROVIDE FIXED DRY-ERASE NON-MAGNETIC GLASS MARKERBOARDS AS MANUFACTURED BY GLASS MARKERBOARDS; ARROW GLASSWORKS, HOLBROOK, MA 02343 OR EQUIVALENT. PROVIDE SHOP DRAWINGS FOR EACH TYPE OF VISUAL DISPLAY BOARD REQUIRED. PROVIDE TECHNICAL DATA FOR MATERIALS SPECIFIED. PROVIDE SAMPLES TO ILLUSTRATE FINISH AND TEXTURE. PROVIDE MANUFACTURER'S INSTALLATION AND CLEANING INSTRUCTIONS. MANUFACTURER SHALL BE A FIRM ENGAGED IN THE MANUFACTURE OF VISUAL DISPLAY BOARDS IN THE UNITED STATES AND SHALL HAVE A MINIMUM OF 5 YEARS' EXPERIENCE IN THE MANUFACTURE OF VISUAL DISPLAY BOARDS. INCLUDE DATA ON REGULAR CLEANING, STAIN REMOVAL AND PRECAUTIONS. SUBMIT MANUFACTURER'S CERTIFICATION THAT MATERIALS COMPLY WITH SPECIFIC REQUIREMENT AND ARE SUITABLE FOR INTENDED APPLICATION.

FIELD MEASURE PRIOR TO PREPARATION OF THE SHOP DRAWINGS AND FABRICATION TO ENSURE PROPER FIT. COMPLY WITH MANUFACTURER'S RECOMMENDATIONS FOR ACCLIMATING AREA FOR INTERIOR MOISTURE AND TEMPERATURE TO APPROXIMATE NORMAL OCCUPIED CONDITIONS. SCHEDULE DELIVERY OF VISUAL DISPLAY BOARDS WITH SPACES SUFFICIENTLY COMPLETE SO THAT VISUAL DISPLAY BOARDS CAN BE INSTALLED UPON DELIVERY. STORE PRODUCTS IN MANUFACTURER'S UNOPENED PACKAGING UNTIL READY FOR INSTALLATIONS. STORE MATERIALS PROTECTED FROM EXPOSURE TO HARMFUL WEATHER CONDITIONS AND AT TEMPERATURES AND HUMIDITY CONDITIONS RECOMMENDED BY MANUFACTURER. SUBMIT A WARRANTY, STATING THAT UNDER NORMAL USAGE AND MAINTENANCE, AND WHEN INSTALLED IN ACCORDANCE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS WITH A LIFETIME WARRANTY IN NORMAL CONDITIONS, FIVE-YEAR WARRANTY ON GLASS INTEGRITY IN NORMAL CONDITIONS. GUARANTEE COVERS REPLACEMENT OF DEFECTIVE BOARDS BUT DOES NOT INCLUDE COST OF REMOVAL OR REINSTALLATION.

GLASS MARKERBOARD MATERIALS SHALL BE GLASS IS PPG STARPHIRE LOW-IRON GLASS OR LOW-IRON CRYSTAL ETCHED GLASS, THICKNESS STANDARD NOMINAL 1/4", STANDARD EDGE SHALL BE A FLAT POLISHED EDGE WITH 1/16" BEVEL. GLASS MARKER WRITING SURFACE SHALL BE A SMOOTH FINISH INTENDED FOR USE WITH DRY-ERASE MARKERS. PROVIDE 4 FT HIGH X 4 FT WIDE AND 4 FT HIGH X 8 FT WIDE GLASS SIZES. BACK PAINTED COLOR SHALL BE WHITE LGBA. MOUNTING METHODS SHALL BE Z-BAR MOUNT HANGER CLIPS - NO VISIBLE MOUNTING HARDWARE. Z-BAR MOUNTING METHOD TO PASS 500 LB. LOAD TEST WITHOUT FAILURE. PROVIDE ALUMINUM ACCESSORY TRAY EQUIPPED WITH DOUBLE-SIDED TAPE AND ONE SET OF MARKER PENS AND ERASER FOR EACH BOARD.

INTERIOR MOISTURE AND TEMPERATURE SHOULD APPROXIMATE NORMAL OCCUPIED CONDITIONS. VERIFY THAT WALL SURFACES ARE TRUE AND PLUMB AND ARE PREPARED AND READY TO RECEIVE BOARDS. DELIVER FACTORY-BUILT UNITS COMPLETELY ASSEMBLED BY ARCHITECT. A 1/16" GAP SHALL BE MAINTAINED FOR SPACING BETWEEN PANELS ON LARGE MULTIPLE PIECE INSTALLATIONS. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR STORAGE AND HANDLING OF UNITS BEFORE INSTALLATION. DO NOT INSTALL IN DAMP WALLS OR IN DAMP AND HUMID WEATHER WITHOUT HEAT IN THE BUILDING. INSTALL LEVEL AND PLUMB, KEEPING PERIMETER TRIM STRAIGHT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. VERIFY THAT ALL ACCESSORIES ARE INSTALLED AS REQUIRED FOR EACH UNIT. AT COMPLETION OF WORK, CLEAN SURFACES AND TRIM IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, LEAVING ALL MATERIALS READY FOR USE.

DIVISIONS 11. EQUIPMENT

OWNER'S OR TENANT'S EQUIPMENT :

REFER TO THE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF OWNER'S EQUIPMENT AND TO THE MECHANICAL & ELECTRICAL DRAWINGS FOR INSTALLATION REQUIREMENTS. COORDINATE WITH OWNER'S REPRESENTATIVE.

OWNER'S APPLIANCES:

AS NOTED ON THE PLANS, THE OWNER WILL PROVIDE THE APPLIANCES AS INDICATED ON THE PLANS. ALL APPLIANCE ROUGH-INS AND HOOK-UPS ARE TO BE INCLUDED IN THE BASE BIDS OF THE GENERAL CONTRACTOR, PLUMBING, MECHANICAL, ELECTRICAL AND OTHER RELATED SUB-CONTRACTORS. REFER TO THE APPLIANCE LOCATIONS AND RELATED NOTES SHOWN ON THE DRAWINGS.

DIVISION 12. FURNISHINGS

WINDOW TREATMENT - HORIZONTAL LOUVER BLINDS:

FURNISH AND INSTALL HORIZONTAL LOUVER BLINDS. PROVIDE AT ALL EXTERIOR WINDOW LOCATIONS. PROVIDE A 12 INCH SQUARE SAMPLE INCLUDING SPECIFIED ELEMENTS OF FINISHED BLIND. DO NOT FABRICATE BLINDS UNTIL SAMPLE HAS BEEN REVIEWED BY THE ARCHITECT. PROVIDE THE COLOR FROM THE FULL RANGE OF THE MANUFACTURER'S COLORS. FOLLOW MANUFACTURER'S ILLUSTRATED STEP-BY-STEP INSTALLATION, OPERATION AND MAINTENANCE INSTRUCTIONS. BLINDS SHALL BE 1-INCH HORIZONTAL BLINDS WITH HEAD CHANNEL, PLASTIC WAND TILTER, CORD LOCK, DRUM AND CRADLES, TILT ROD, END BRACE, INSTALLATION BRACKETS INCLUDING INTERMEDIATE BRACKETS WHERE REQUIRED DUE TO LENGTH, BRAIDED LADDERS, 1 INCH PVC SLATS, BOTTOM RAIL AND LIFT CHORD AND MANUAL OPERATORS AND CONTROLS. APPROVED PRODUCTS INCLUDE GRABER AND LEVELOR. INSPECT EXISTING CONDITIONS AND APPROVE MOUNTING SURFACES AND INSTALLATION CONDITIONS BEFORE PROCEEDING WITH WORK. FIELD VERIFY DIMENSIONS OF OPENINGS PRIOR TO ORDERING MATERIALS. WINDOW TREATMENTS ARE TO BE BID AS A PART OF THE FINISH PACKAGE. THE ARCHITECT IS TO SELECT WINDOW TREATMENT TYPES AND COLORS/FINISHES. ALL WINDOW TREATMENTS ARE TO MEET AND COMPLY WITH THE 2021 IFC AND 2021 IBC CLASS III FLAME/SPREAD CLASSIFICATION (INDEX 76-200) IN ALL ROOMS AND/OR AREAS.

OWNER'S FURNISHINGS & FIXTURES :

REFER TO THE ARCHITECTURAL DRAWINGS FOR THE FURNISHINGS AND FIXTURES SCHEDULES AND INSTALLATION REQUIREMENTS. COORDINATE WITH OWNER'S REPRESENTATIVE AND VENDOR.

DIVISION 13. SPECIAL CONSTRUCTION

BUILDING ADDRESS:

AN ADDRESS WILL BE PROVIDED ON THE BUILDING ASSIGNED BY THE WEST BOUNTIFUL CITY ENGINEERING DEPARTMENT. THE NUMBERS AND LETTERS SHALL BE VISIBLE FROM THE STREET AND BE A MINIMUM OF 6" HIGH WITH A STROKE OF 1/2 INCH AND SHALL BE ARABIC. THE ADDRESS SHALL BE A CONTRASTING COLOR OF THE BACKGROUND. THERE WILL BE AN ADDITIONAL MONUMENT SIGN WITH THE SAME SIGNAGE REQUIREMENTS.

OWNER SUPPLIED LOGO:

THE OWNER WILL PROVIDE FOR TWO (2) LARGE LASER CUT METAL SIGN LOGOS TO BE INSTALLED ON THE BUILDING FACE. REFER TO THE BUILDING ELEVATIONS. THEY WILL ALSO PROVIDE TWO (2) SMALLER LASER CUT METAL SIGN LOGOS TO BE INSTALLED ON THE PROJECT MONUMENT SIGN. THESE WILL BE INSTALLED BY THIS CONTRACTOR. THE INSTALLATION WILL BE BY BLIND ANCHOR BOLTS INTO THE CMU WALLS. THIS CONTRACTOR IS TO COORDINATE THE ANCHOR REQUIREMENTS WITH THE OWNER PRIOR TO THE LASER CUTTING AND PROVIDE THE ANCHORING SYSTEM TO THESE FOUR (4) SIGNS.

INTERIOR BUILDING SIGNAGE:

OWNER'S INTERIOR SIGNAGE SUPPLIER WILL PROVIDE SIGNS FOR ALL INTERIOR SPACES. THE SIGNS WILL ALSO BE TACTILE.

FIRE DEPARTMENT REQUIRED DOOR SIGNAGE:

AFTER A COMPLETE PLAN REVIEW IS PERFORMED BY THE WEST BOUNTIFUL CITY FIRE MARSHAL, THE REQUIRED ROOM, EXIT AND HALL SIGNAGE WILL BE IDENTIFIED TO BE SUPPLIED AND INSTALLED BY THE CONTRACTOR. AT A MINIMUM PROVIDE THE FOLLOWING SIGNS (COORDINATE SIGN DESIGN AND LOCATION WITH ARCHITECT AND OWNER) AS THE MINIMUM SIGNAGE THAT WILL BE REQUIRED BY THE FIRE DEPT BLDG PERMIT REVIEW AND MUST BE INCLUDED IN THE CONTRACTOR'S BID:

1. PROVIDE ONE EXTERIOR SIGN ON MAIN ENTRY DOORS AT SOUTHEAST AND NORTHWEST, INDICATING "FIRE ALARM PANEL". THE SIGN SHALL HAVE LETTERS A MINIMUM OF 4" HIGH AND A MINIMUM STROKE OF 1/4 INCH. THE LETTERS SHALL BE ARABIC AND SHALL BE A CONTRASTING COLOR TO THE BACKGROUND. THESE SIGNS WILL ALSO INDICATE THE ROOM NUMBER WHERE THE FIRE ALARM PANEL IS LOCATED.
2. PROVIDE ONE EXTERIOR OR INTERIOR SIGN AT DOORS INDICATING A DESCRIPTION OF EACH MECHANICAL, ELECTRICAL AND DATA ROOM.

TACTILE EXIT SIGNS:

PER IBC SECTION 1011.3, PROVIDE TACTILE SIGNS STATING "EXIT" AT EACH EXIT DOOR TO AN EGRESS EXIT DISCHARGE DOOR. SPECIFICALLY THESE WILL BE REQUIRED ON THE SIDE OF THE DOOR IN THE EXIT DIRECTION. COORDINATE THESE SIGNS WITH THE OWNER'S BUILDING SIGNAGE DESIGN AND SUPPLIER.

OCCUPANCY SIGNAGE :

PROVIDE THE FOLLOWING:

- |                       |                           |
|-----------------------|---------------------------|
| 1. BOARD ROOM #106:   | MAXIMUM 31 OCCUPANTS SIGN |
| 2. TRAINING ROOM #107 | MAXIMUM 63 OCCUPANTS SIGN |

DIVISION 14. CONVEYING SYSTEMS

NO WORK

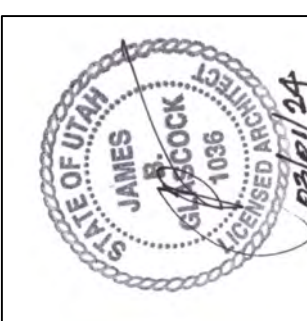
Date 03/01/24

Revisions

09A106

Project 22-002

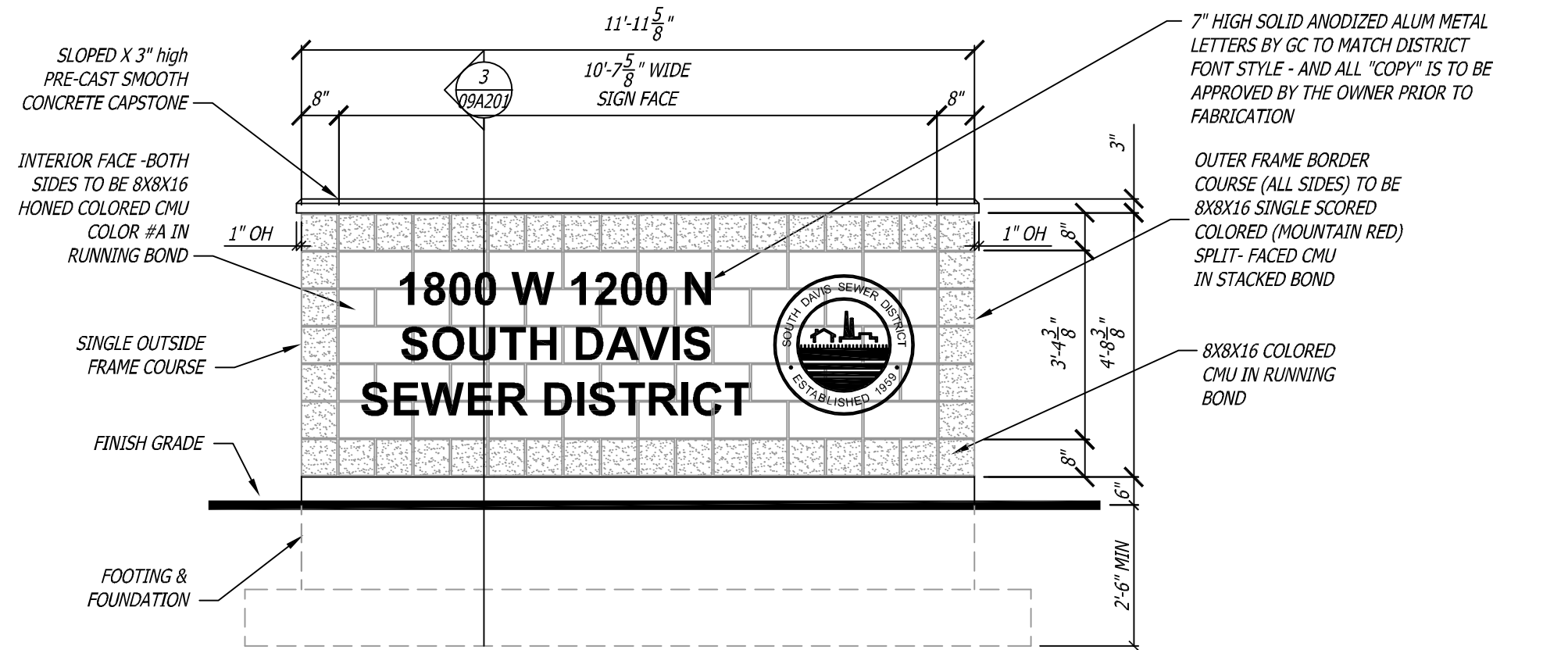
NEW ADMINISTRATION OFFICE BUILDING FOR: SOUTH DAVIS SEWER DISTRICT 1800 WEST 1200 NORTH WEST BOUNTIFUL, UTAH



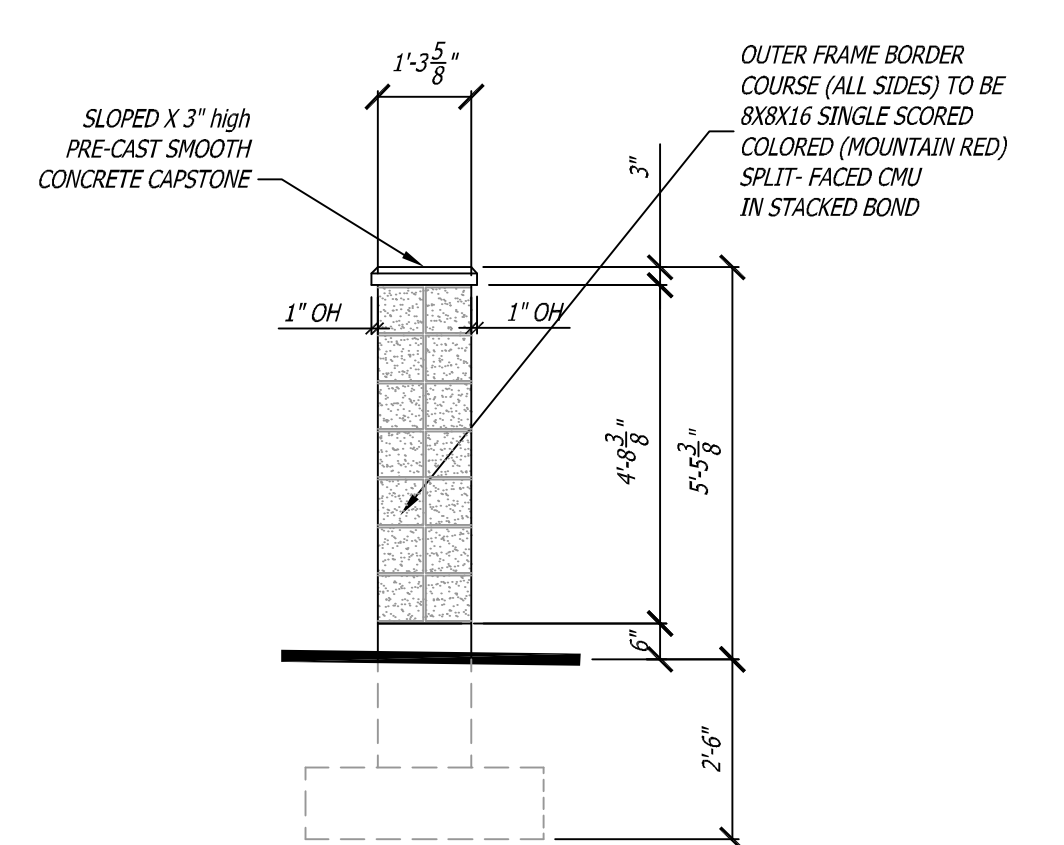
James B. Glascock, Architect P.C. Architecture Planning 1890 I East Lark Drive Queen Cree, Arizona 85142 801 - 860 - 8905 e-mail: jglascock@mtcon.net

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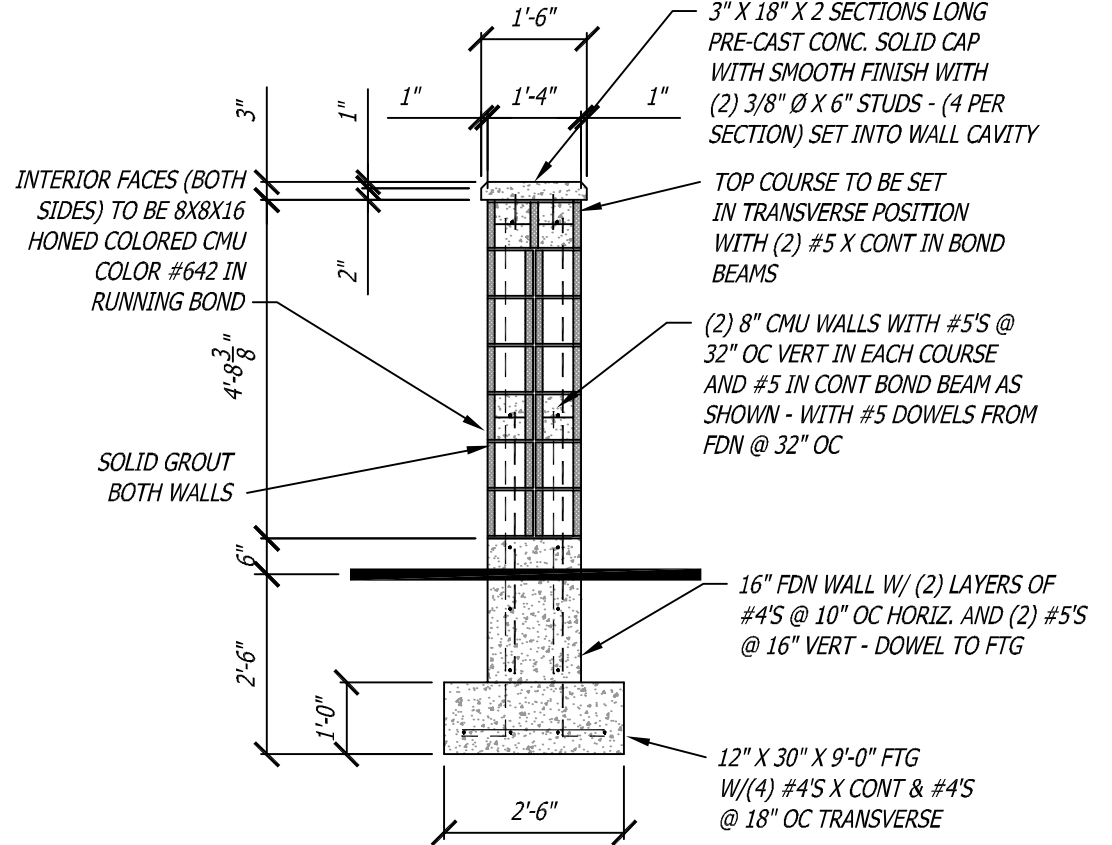




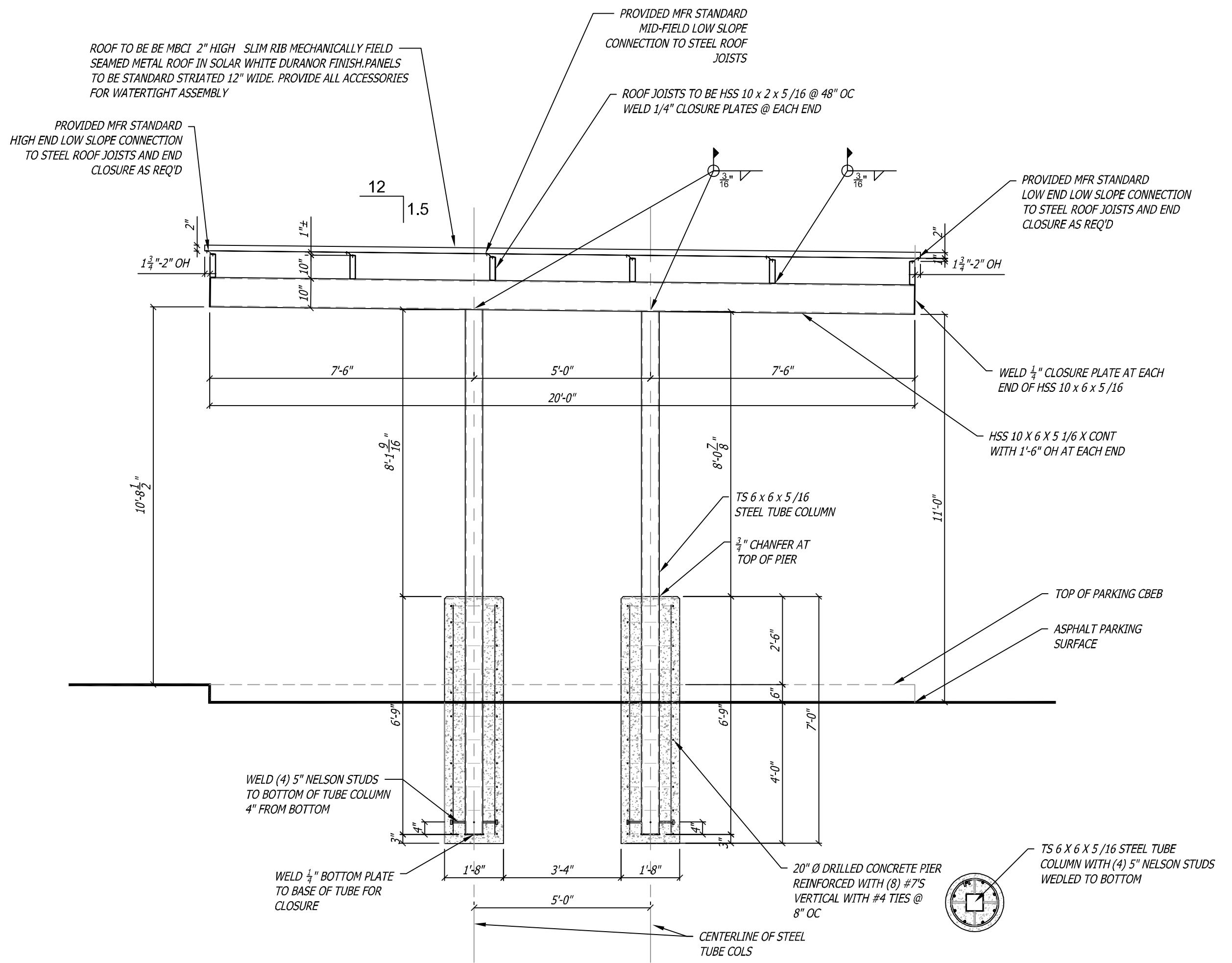
**1 MONUMENT SIGN - SIGN MIRRORED ON OTHER SIDE**  
 09A201 3/8" = 1'-0"  
 SIGN TO BE GROUND LIT FROM BOTH SIDES - SEE ELECTRICAL SITE PLAN



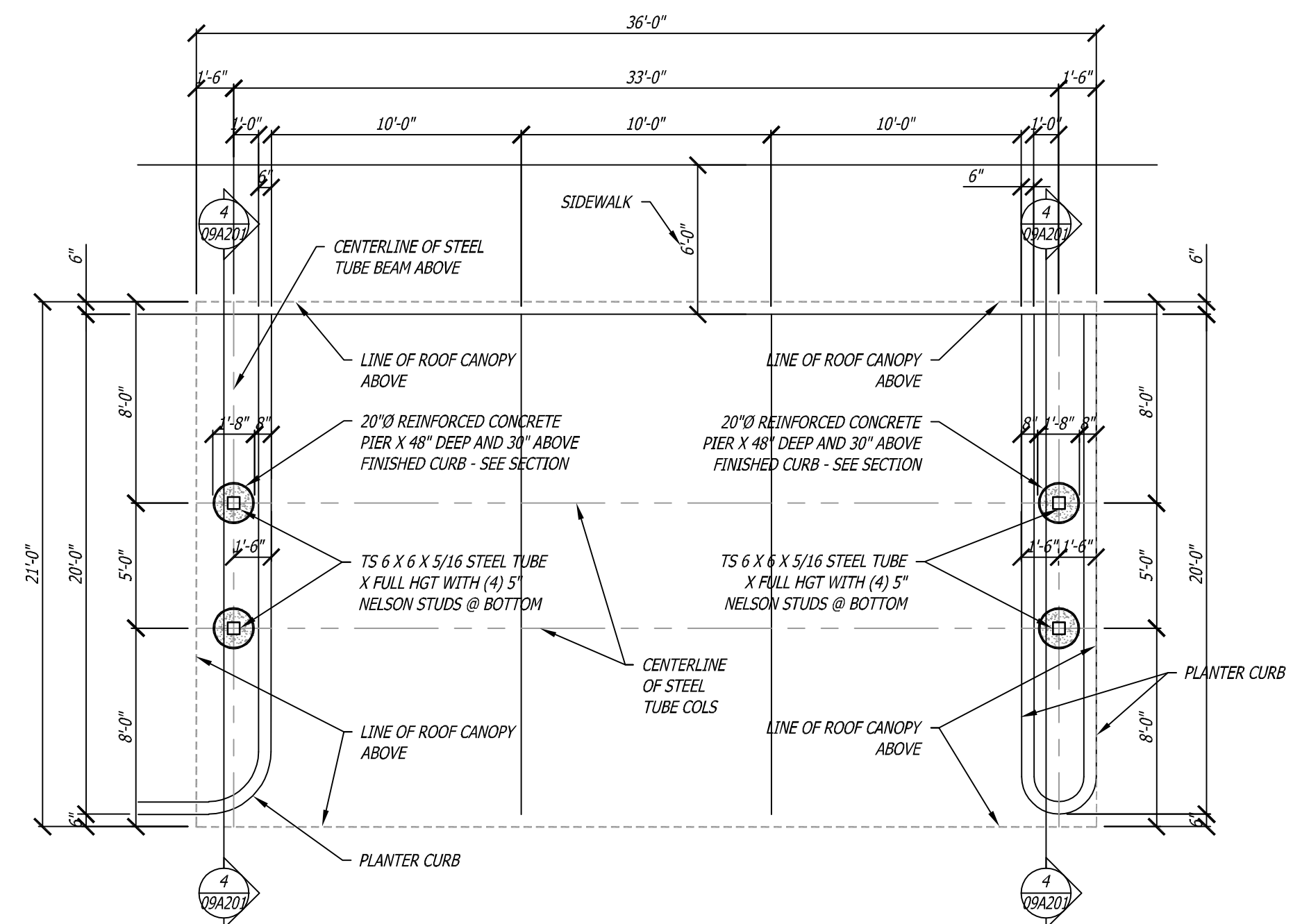
**2 MONUMENT SIGN SIDE ELEVATION**  
 09A201 3/8" = 1'-0"



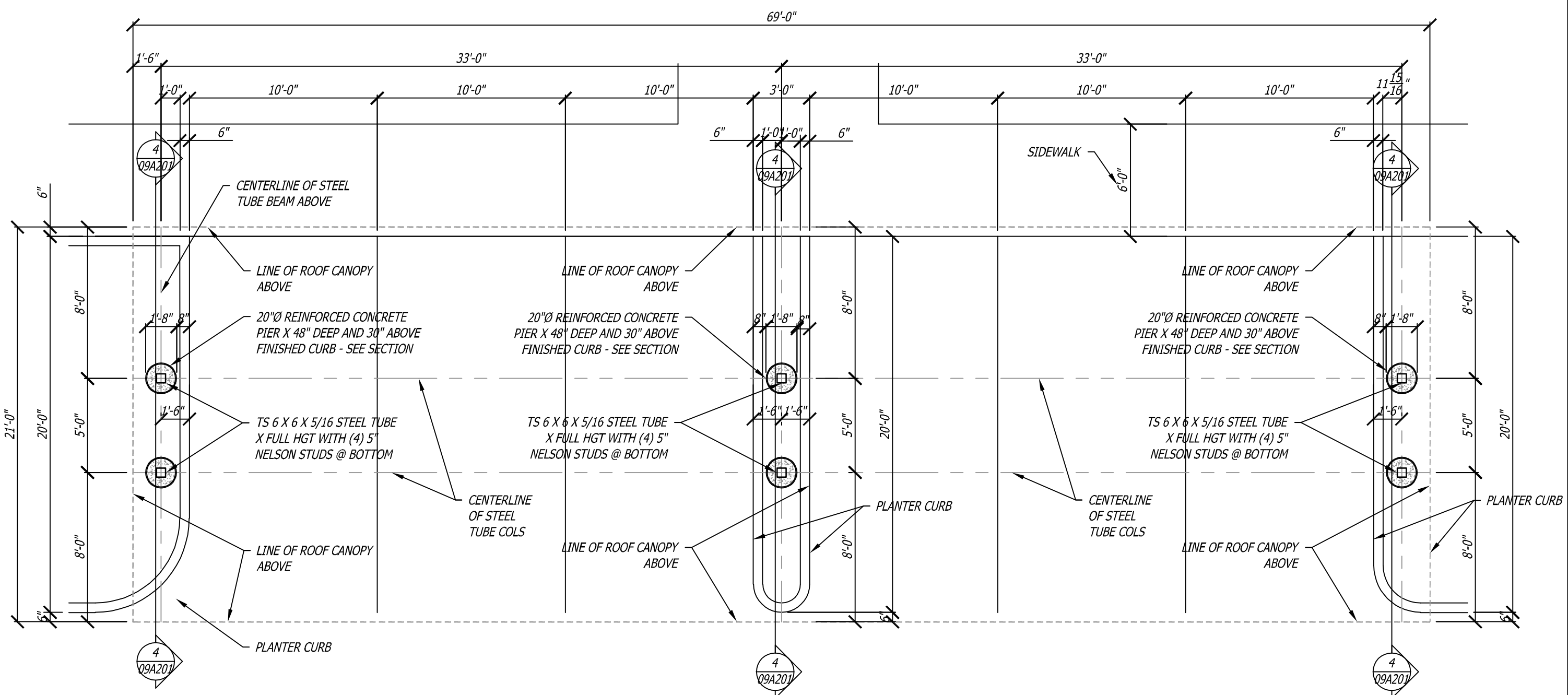
**3 MONUMENT SIGN SECTION**  
 09A201 3/8" = 1'-0"



**4 CARPORT SECTION**  
 09A201 3/8" = 1'-0"

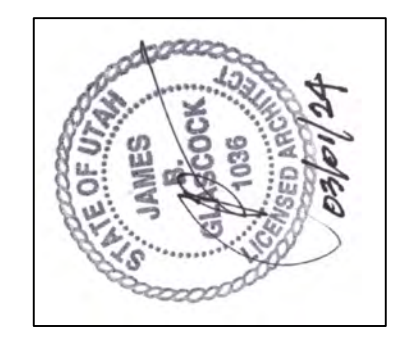


**A 3 - VEHICLE CARPORT (TYPICAL OF 2)**  
 09A201 3/16" = 1'-0"



**B 6 - VEHICLE CARPORT (TYPICAL OF 1)**  
 09A201 3/16" = 1'-0"

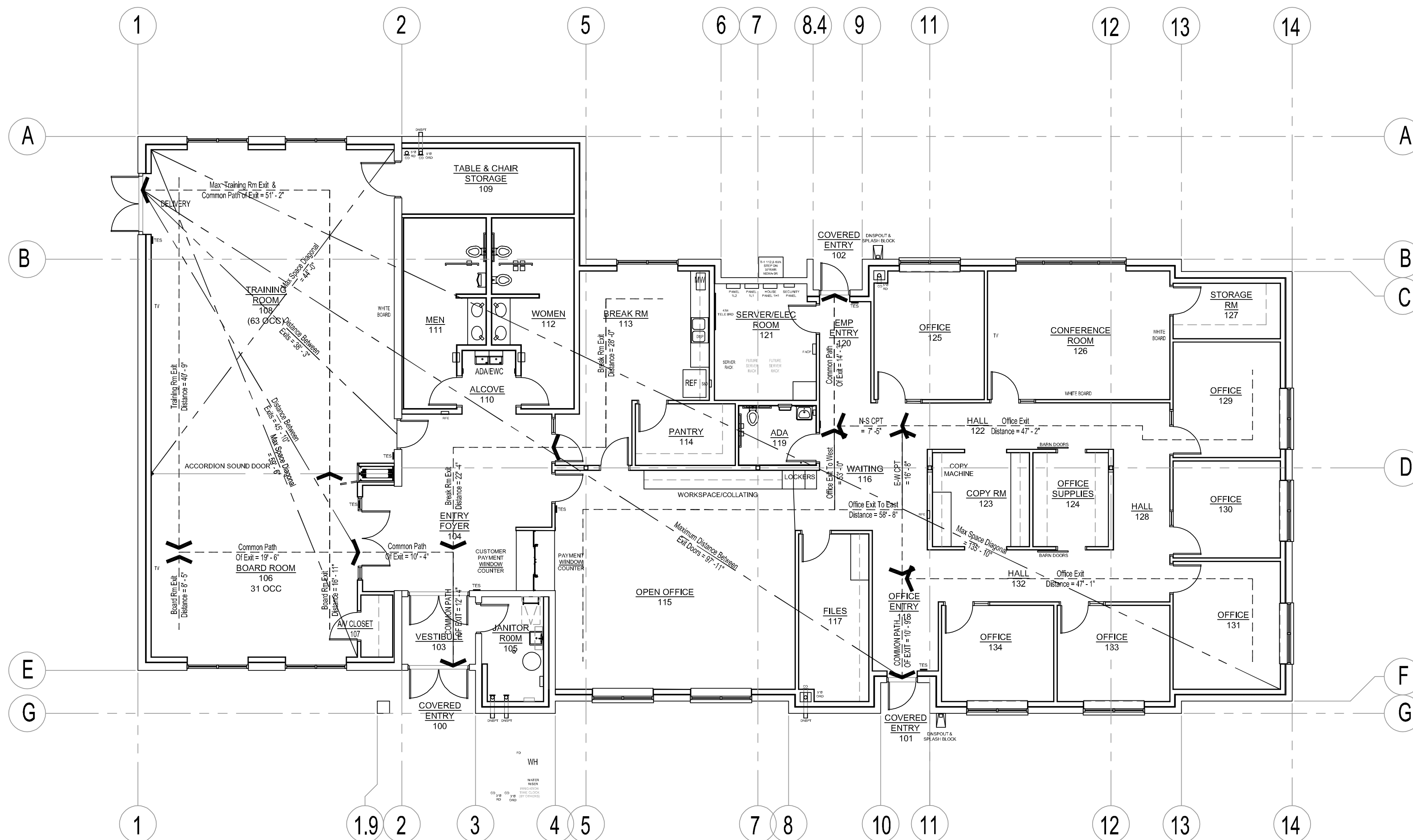
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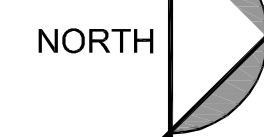
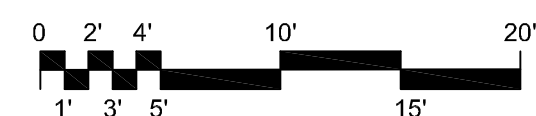
**Project 24-001**  
**NORTH PLANT ADMINISTRATION OFFICE BUILDING**  
 SOUTH DAVIS SEWER DISTRICT  
 1800 WEST 1200 NORTH  
 WEST BOUNTIFUL, UTAH

Date	Revisions
03/01/24	09A201



# EXIT & EGRESS FLOOR PLAN

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



## EXIT DISTANCES

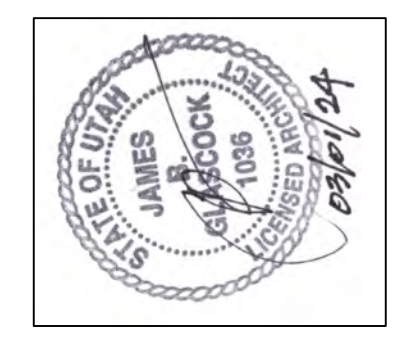
GENERAL BUILDING ANALYSIS (REFER TO EXIT DIAGRAM ON THIS SHEET):

- IBC CODE 2021 - OCCUPANT LOADS & EXITS REQUIRED (TABLE 1006.2.1)
  - BOARD ROOM #106 = 458 NET SF / 15 SF / OCCUPANT = 31 OCCUPANTS = 1 EXIT REQUIRED (1 PROVIDED)
  - TRAINING ROOM #107 = 941 NET SF / 15 SF / OCCUPANT = 63 OCCUPANTS = 2 EXITS REQUIRED (2 PROVIDED)
  - COMBINED BOARD RM + TRAINING RM = 1,399 NET SF / 15 SF / OCCUPANT = 94 OCCUPANTS = 2 EXITS REQ'D (3 PROVIDED)
  - REMAINDER OF OFFICE AREA = GROSS BLDG SF = 6,541 SF - 1,615 SF (GROSS SF OF A OCCUPANCY) = 4,926 GROSS SF
  - 4,926 GROSS SF / 150 SF / OCCUPANT = 33 OCCUPANTS = 1 EXIT REQUIRED (3 PROVIDED).
- TOTAL BLDG = 127 OCCUPANTS = 2 EXITS REQUIRED 4 EXITS PROVIDED
  - PER 1007.2.1 MIN DISTANCE BETWEEN EXITS = MAX BLDG DIAGONAL - 135'-10" / 2 = 67'-11" REQUIRED
  - AND ACTUAL DISTANCE BETWEEN FURTHEST EXIT DOORS = 97'-11" (OK)
- TRAINING ROOM = 2 EXITS REQUIRED, THE MAXIMUM DIAGONAL LENGTH FOR TRAINING ROOM = 44'-0"
  - PER 1007.2.1 MIN DISTANCE BETWEEN EXITS = 44'-0" / 2 = 22'-0"
  - ACTUAL DISTANCE BETWEEN EXIT DOORS = 38'-3" > 22'-0" (OK)
- COMBINED BOARD ROOM + TRAINING ROOM = 2 EXITS REQUIRED.
  - THE MAXIMUM DIAGONAL LENGTH FOR TRAINING ROOM = 59'-6"
  - PER 1007.2.1 MIN DISTANCE BETWEEN EXITS = 59'-6" / 2 = 29'-9"
  - ACTUAL DISTANCE BETWEEN EXIT DOORS = 45'-10" > 29'-9" (OK)
- MAXIMUM ALLOWABLE HALL DEAD END W/O FS SYSTEM = 20 LF (SECTION 1020.5), THERE ARE NO DEAD END HALLS IN THE BLDG.
- MAXIMUM ALLOWABLE TRAVEL DISTANCE (A OCCUPANCIES) W/O FS SYSTEM = 200 LF (TABLE 1017.2)
- MAXIMUM ALLOWABLE COMMON PATH OF TRAVEL (A OCCUPANCIES) W/O FS SYSTEM = 75 LF (TABLE 1006.3.4)
- MAXIMUM ALLOWABLE TRAVEL DISTANCE (B OCCUPANCIES) W/O FS SYSTEM = 200 LF (TABLE 1017.2)
- MAXIMUM ALLOWABLE COMMON PATH OF TRAVEL (B OCCUPANCIES) W/O FS SYSTEM = 75 LF (TABLE 1006.3.4)

INDIVIDUAL SPACE ANALYSIS	# OF EXITS REQ'D - UNIT DISTANCE + COMMON PATH OF TRAVEL(S)
BOARD ROOM #106	EXIT PATH FROM SE CORNER TO NE DOOR = 8'-5" + 19'-6" = 27'-11" < 75' (OK)
	MAXIMUM EXIT DISTANCE TO EAST EXTERIOR DOOR = 27'-11" + 10'-4" + 12'-4" = 50'-7" < 200' (OK)
BOARD ROOM #106	EXIT PATH FROM NE CORNER TO SE EXTERIOR DOOR = 16'-11" + 51'-2" = 68'-1" < 75' (OK)
	MAXIMUM EXIT DISTANCE TO EAST EXTERIOR DOOR = 68'-1" < 200' (OK)
TRAINING ROOM #108	EXIT PATH FROM SE CORNER TO NE DOOR = 40'-9" + 19'-6" = 60'-3" < 75' (OK)
	MAXIMUM EXIT DISTANCE TO EAST EXTERIOR DOOR = 60'-3" + 10'-4" + 12'-4" = 82'-11" < 200' (OK)
TRAINING ROOM #108	EXIT PATH FROM NE CORNER TO SE EXTERIOR DOOR = 51'-2" < 75' (OK)
	MAXIMUM EXIT DISTANCE TO EAST EXTERIOR DOOR = 51'-2" < 200' (OK)
COMBINED ROOMS #106 & 108	EXIT PATH FROM NE CORNER TO SE EXTERIOR DOOR = 16'-11" + 51'-2" = 68'-1" < 75' (OK)
	MAXIMUM EXIT DISTANCE TO SE EXTERIOR DOOR = 69'-1" < 200' (OK)
COMBINED ROOMS #106 & 108	EXIT PATH FROM SE CORNER TO NE DOOR = 40'-9" + 19'-6" = 60'-3" < 75' (OK)
	MAXIMUM EXIT DISTANCE TO EAST EXTERIOR DOOR = 60'-3" + 10'-4" + 12'-4" = 82'-11" < 200' (OK)
BREAK ROOM #113	EXIT PATH FROM NW CORNER TO SE DOOR = 28'-0" < 75' (OK)
	MAXIMUM EXIT DISTANCE TO EAST EXTERIOR DOOR = 28'-0" + 22'-4" + 12'-4" = 62'-8" < 200' (OK)
OPEN OFFICE #115	EXIT PATH FROM SE CORNER TO WEST COMMON PATH OF TRAVEL = 53'-0" < 75' (OK)
	MAXIMUM EXIT DISTANCE TO WEST EXTERIOR DOOR = 53'-0" + 14'-7" = 67'-7" < 200' (OK)
OPEN OFFICE #115	EXIT PATH FROM SE CORNER TO EAST COMMON PATH OF TRAVEL = 58'-8" < 75' (OK)
	MAXIMUM EXIT DISTANCE TO EAST EXTERIOR DOOR = 58'-8" + 10'-9" = 69'-5" < 200' (OK)
OFFICE #129	EXIT PATH FROM NW CORNER TO WEST COMMON PATH OF TRAVEL = 47'-2" < 75' (OK)
	MAXIMUM EXIT DISTANCE TO WEST EXTERIOR DOOR = 47'-2" + 7'-5" + 14'-7" = 69'-2" < 200' (OK)
OFFICE #129	EXIT PATH FROM NW CORNER TO EAST COMMON PATH OF TRAVEL = 47'-2" < 75' (OK)
	MAXIMUM EXIT DISTANCE TO EAST EXTERIOR DOOR = 47'-2" + 16'-8" + 10'-9" = 74'-7" < 200' (OK)
OFFICE #131	EXIT PATH FROM NE CORNER TO EAST COMMON PATH OF TRAVEL = 47'-1" < 75' (OK)
	MAXIMUM EXIT DISTANCE TO EAST EXTERIOR DOOR = 47'-1" + 10'-9" = 57'-10" < 200' (OK)
OFFICE #131	EXIT PATH FROM NE CORNER TO WEST COMMON PATH OF TRAVEL = 47'-1" + 16'-8" = 63'-9" < 75' (OK)
	MAXIMUM EXIT DISTANCE TO WEST EXTERIOR DOOR = 63'-9" + 7'-6" + 14'-3" = 91'-6" < 200' (OK)

ALL OTHER SPACES ARE LESS THAN THESE WORST CASE EXIT DISTANCES AND ARE NOT NEEDED TO BE ANALYZED

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Project 24-001  
 NORTH PLANT ADMINISTRATION OFFICE BUILDING  
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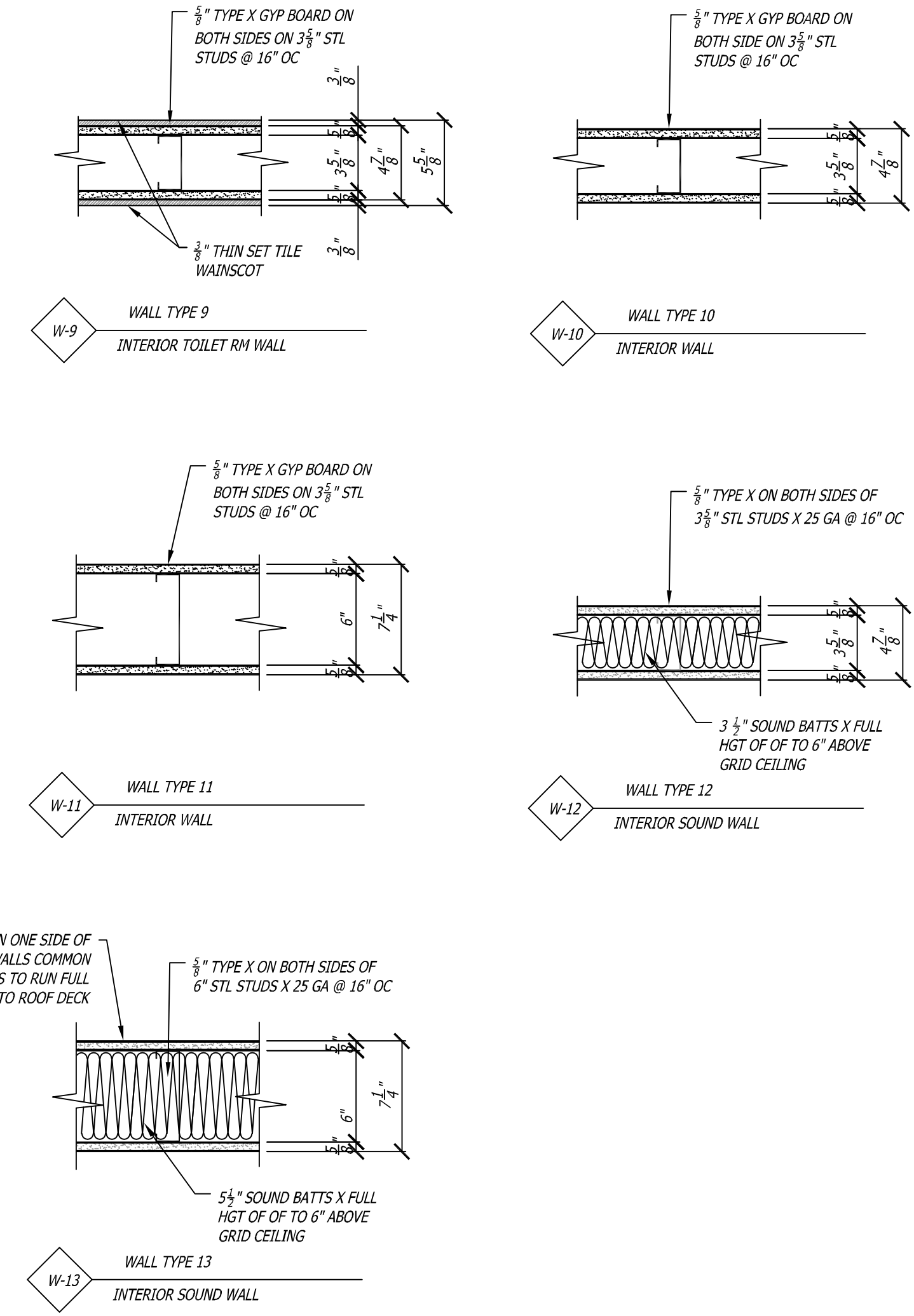
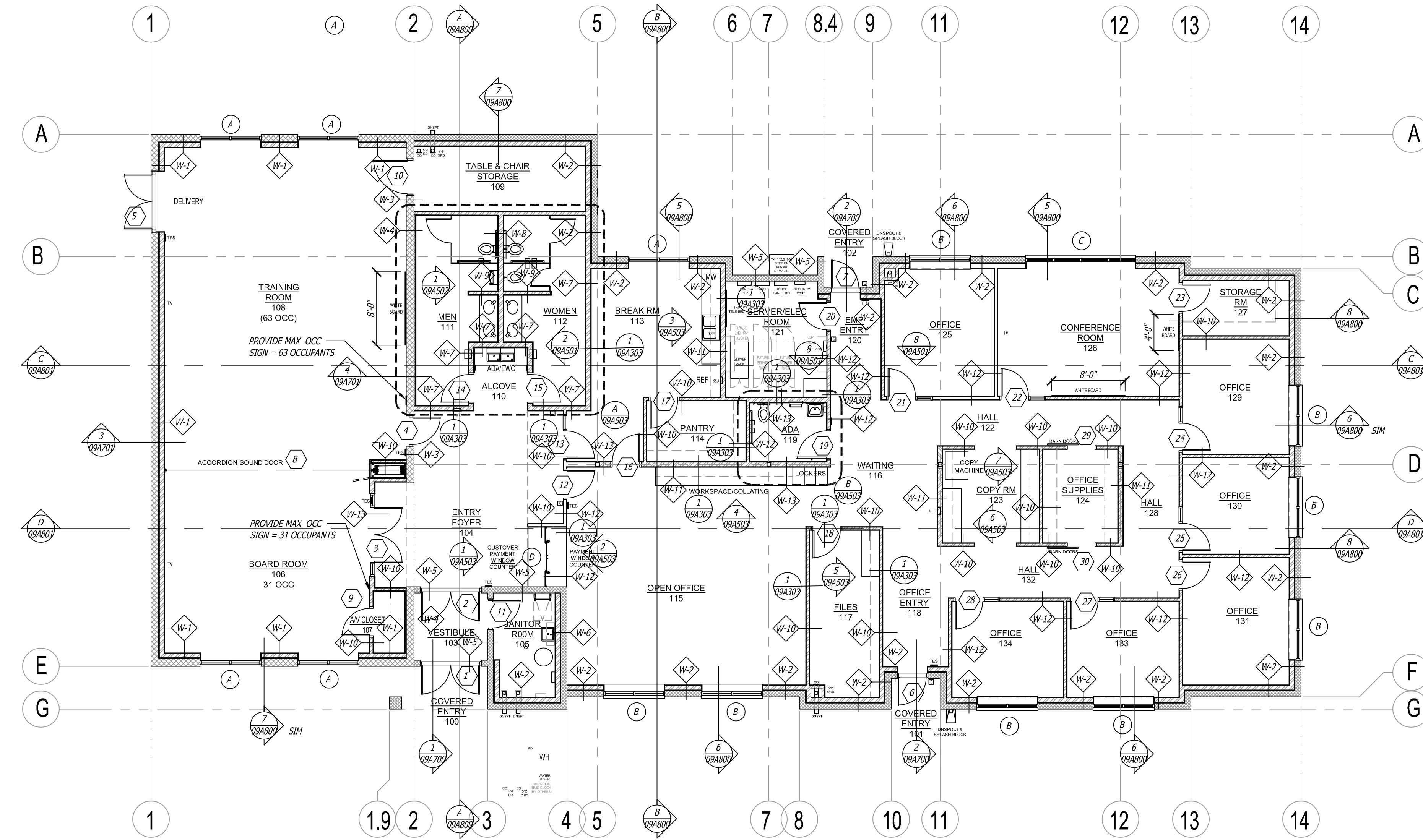
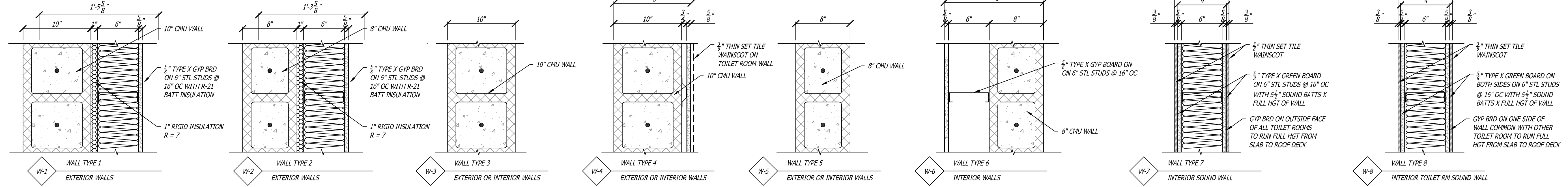
Date	Revisions
03/01/24	

09A300

# BASIC WALL TYPES

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

1. SEE FINISH SCHEDULE FOR ADDITIONAL FULL HEIGHT FINISHES TO BE ADDED TO THESE BASIC WALL TYPES
2. ALL STUD WALLS ARE TO RUN FLOOR SLAB TO ROOF ABOVE. (ALLOW 1" DEFLECTION)
3. MOST WALL WILL HAVE GYP BOARD STOPPING @ 6" ABOVE GRID EXCEPT AS NOTED ON PLANS OR OTHER DETAILS FOR SOUND WALLS.



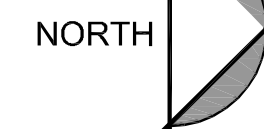
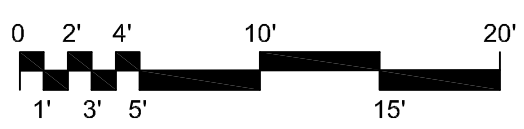
**BUILDING SF CALCULATIONS:**

BOARD ROOM	565 GROSS SF	(458 NET SF)
TRAINING ROOM	1,050 GROSS SF	(940 NET SF)
OFFICE AREA	4,926 GROSS SF	
<b>BUILDING</b>	<b>6,541 GROSS SF</b>	

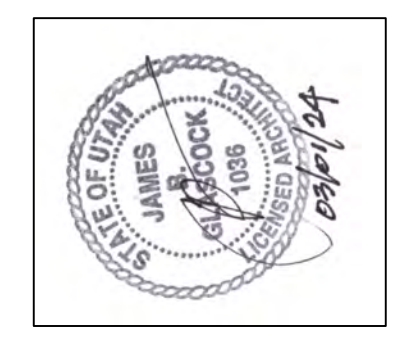
- PLAN NOTES:**
- ADA = HANDICAP
  - EWC = ELECTRIC WATER COOLER
  - TES = TACTILE EXIT SIGN
  - RD = MAIN ROOF ROOF DRAIN
  - ORD = OVERFLOW ROOF DRAIN
  - CO = CLEAN OUT
  - DNSPRT = DOWNSPOUT
  - DISC = DISCONNECT
  - XFRMR = TRANSFORMER
  - RFE = RECESSED FIRE EXTINGUISHER
  - GB = 5/8" TYPE X GYP BOARD
  - STL STD = STEEL STUD
  - C = CARD READER
  - MW = MICROWAVE
  - REF = REFRIGERATOR
  - DISP = DISPOSAL
  - (1) = DOOR NUMBER
  - (4) = WINDOW NUMBER

# FLOOR PLAN

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



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Project  
**24-001**  
**NORTH PLANT ADMINISTRATION OFFICE BUILDING**  
 SOUTH DAVIS SEWER DISTRICT  
 1800 WEST 1200 NORTH  
 WEST BOUNTIFUL, UTAH

Date	03/01/24	Revisions	

**09A301**

**PARTITION & FRAMING GENERAL NOTES:**

- PARTITION TYPE INDICATED ARE INDEPENDENT OF APPLIED FINISHES. SEE THE FINISH SCHEDULE AND WALL TYPES FOR WALL FINISHES INCLUDING TILE LAYOUT AND/OR THE DESIGNATIONS ON THE PLANS FOR ADDITIONAL INFORMATION REGARDING APPLIED FINISHES.
- WHERE PARTITION DESIGNATION ON FLOOR PLANS IS INTERRUPTED BY DOOR OPENINGS, GLAZED PARTITIONS, ETC., CONSTRUCTION ABOVE INTERRUPTION (AND WHERE APPLICABLE BELOW) IS TO BE THE SAME AS THAT DESIGNATED FOR THE PARTITION IN WHICH THE INTERRUPTION OCCURRED & IS TO CONTINUE OVER TOP OF INTERRUPTION.
- ALL DIMENSIONS ARE FACE OF STUD, CONCRETE, MASONRY OR ROUGH OPENING UNLESS NOTED OTHERWISE.
- SEE DETAILS FOR TYPICAL TOP OF WALL CONDITION AT ALL INTERIOR WALLS, STUDS, SOUND BATT INSULATION AND GYPSUM BOARD ARE TO EXTEND TO THE DECK ABOVE.
- WALL TYPES NOT NOTED ARE ASSUMED TO MATCH ADJACENT ROOMS. SEE OTHER SHEETS FOR FINISHES AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- SOME METAL STUD PARTITIONS ARE CONSIDERED ACOUSTIC PARTITIONS AND ARE TO RECEIVE A TYPE 1 SOUND ATTENUATION BLANKET. THICKNESS TO MATCH STUD DEPTH, UNLESS NOTED OTHERWISE. REFER TO WALL TYPES AND FINISH SCHEDULE.
- REFER TO TYPICAL INTERIOR WALL DETAILS ASSOCIATED WITH ALL METAL STUD PARTITIONS.
- PROVIDE CONTROL JOINTS IN METAL FRAMED WALLS AT APPROXIMATELY 30 FEET ON CENTER. LOCATE AT CORNER ABOVE DOORS OR INSIDE CORNER OF PILASTERS OR OTHER INCONSPICUOUS LOCATION WHERE POSSIBLE. CONSULT WITH ARCHITECT PRIOR TO COMMENCING FRAMING. INSTALL PER CONTROL JOINTS DETAIL.
- AT WALL OPENINGS FOR PENETRATION OF PIPES, DUCTS, DEVICES, ETC., GYPSUM BOARD IS TO BE CUT TO MATCH THE SHAPE AND DIMENSION OF THE PENETRATING OBJECT AND THE GAP BETWEEN THE OBJECT AND THE WALL IS TO BE SEALED W/ ACOUSTICAL OR FIRE SEALANT ON ALL SIDES WITH A 3/4" JOINT AT ALL SIDES, MAXIMUM. THE OPENING FOR DUCTS OR LARGE PENETRATIONS SHALL BE FRAMED WITH A HEADER, AND AN ANGLED CORNER BRACE IF THE GAP EXCEEDS 3" FROM FRAMING TO THE OPENING. CONTRACTOR TO PROVIDE BLOCKING / BRACING FOR ALL MOUNTED EQUIPMENT. SEE FLOOR PLANS AND INTERIOR ELEVATIONS FOR LOCATION OF CABINETS, GRAB BARS, ETC. INSTALL BLOCKING AS DETAILED OR AS REQUIRED TO MOUNT SUCH DEVICES. ALL WOOD BLOCKING IS TO BE FIRE RETARDANT TREATED.

- WHERE THERE IS LIMITED WATER EXPOSURE: INSTALL ONE LAYER OF 5/8" TYPE X WATER RESISTANT GYPSUM BOARD PER ASTM C1396 (WHERE GYPSUM BOARD OCCURS) ON PARTITION AT THE FOLLOWING LOCATIONS:
  - WITHIN 2 FEET HORIZONTALLY AND 4 FEET VERTICALLY OF JANITOR'S SINKS
  - AT OTHER LOCATIONS, I.E. TOILET ROOMS AND BREAK ROOMS, AND IS INDICATED ON THE ARCHITECTURAL FINISH PLANS AND ELEVATIONS.
- INSTALL ONE LAYER OF 5/8" GLASS MATT TILE BACKER BOARD IN LIEU OF GYPSUM BOARD (WHERE GYPSUM BOARD OCCURS) ON PARTITION WHERE THERE IS NO FIRE RATING AND OVER GYPSUM BOARD FACE LAYER AT FIRE RATED PARTITIONS AT THE FOLLOWING LOCATIONS.
  - AT WET LOCATIONS.
  - WHERE CERAMIC TILE FINISHES ARE INDICATED PER THE FINISH PLANS AND/OR INTERIOR ELEVATIONS.
  - AT OTHER LOCATIONS AS INDICATED BY THE ARCHITECTURAL FINISH PLANS AND ELEVATIONS.
- THE MINIMUM REQUIREMENTS FOR CONSTRUCTION OF EACH PARTITION TYPE ARE INCORPORATED BY REFERENCE AND ARE APPLICABLE TO THE WORK OF THIS PROJECT. HOWEVER, ADDITIONAL AND/OR MORE RESTRICTIVE REQUIREMENTS MAY BE INDICATED BY THE SPECIFICATIONS AND DRAWINGS. SUCH REQUIREMENTS INCLUDE BUT ARE NOT LIMITED TO:
  - USE 5/8" THICK GYPSUM BOARD THROUGHOUT UNLESS NOTED OTHERWISE.
  - USE 16" OC MAX STUD SPACING UNLESS NOTED OTHERWISE IN THESE DOCUMENTS. THE SPACING STATED BY THE REFERENCED APPROVAL OR TEST REPORT IS THE MAX SPACING IF ALLOWED IN THESE DOCUMENTS.
  - USE STUDS OF GAGE INDICATED ON THE DRAWINGS OR IN THE SPECIFICATIONS. THE GAGE STATED BY THE REFERENCED APPROVAL OR TEST REPORT SHALL BE THE MINIMUM GAGE TESTED, 25 GA (30 MILS) IS THE MINIMUM ALLOWED IN THESE DOCUMENTS.
  - USE STUDS OF DEPTH INDICATED BY THIS SET OF DOCUMENTS. THE DEPTH STATED BY THE REFERENCED APPROVAL OR TEST REPORT IS THE MINIMUM DEPTH TESTED DEPTH ALLOWED IN THESE DOCUMENTS.

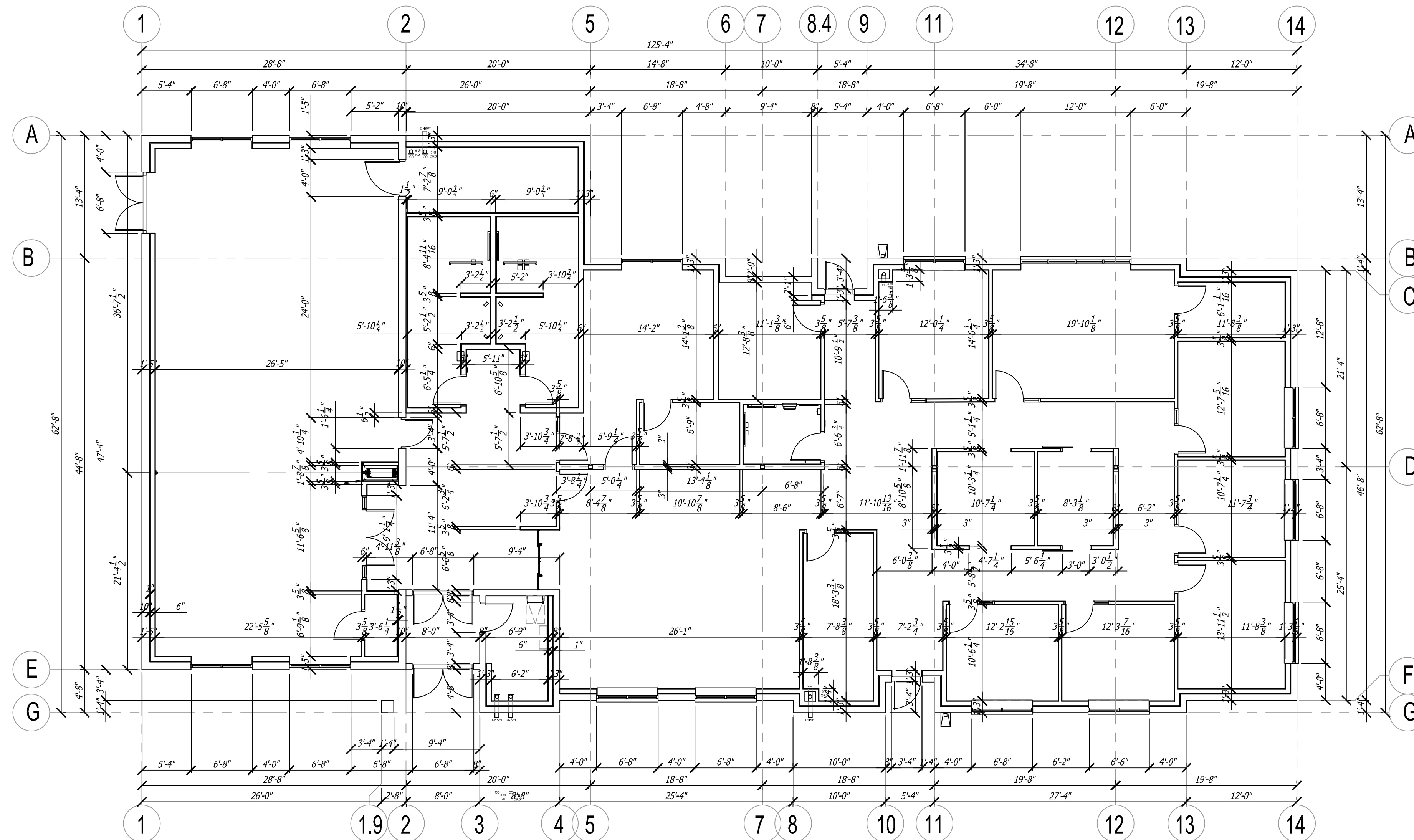
**KEY FOR PARTITION TYPES:**

NON-BEARING METAL STUD GAUGE SIZING		
MEMBER DEPTH	MAX STUD HEIGHT	MIN. GA. & SPACING
2-1/2" (250S125-33)	10'-0"	20 @ 16" OC
3-5/8" (362S125-33)	14'-0"	20 @ 16" OC
3-5/8" (362S162-33)	16'-0"	20 @ 16" OC
3-5/8" (362S162-43)	18'-0"	18 @ 16" OC
6" (600S162-33)	24'-0"	20 @ 16" OC
6" (600S162-43)	26'-0"	18 @ 16" OC
6" (600S162-54-50 ksi)	28'-0"	18 @ 16" OC

NON-BEARING METAL HEADER SCHEDULE		
MAXIMUM SPAN	HEADER	FY
4'-0"	(2) 400S137-43	33 KSI
6'-0"	(2) 600S162-43	33 KSI
8'-0"	(2) 800S162-43	33 KSI

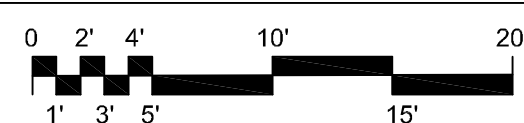
- METAL STUD HEADER NOTES:**
- SCHEDULE TO BE USED FOR NON-BEARING WALLS.
  - SEE TYPICAL DETAILS FOR MORE INFORMATION.
  - SEE GENERAL NOTES FOR ADDITIONAL ELEMENTS IN THE INDIVIDUAL WALL
  - TYPES AND SPECIFIC DETAILS, INCLUDING UL RATINGS.

- METAL STUD NOTES:**
- STEEL STUDS SHALL MEET ICC REPORT ER-4943P & THE SSMA STANDARDS.
  - HEIGHT BASED ON CURRENT SSMA CATALOG AND PROJECT REQUIREMENTS.
  - SEE SCHEDULE FOR STUD SPACING AND GAUGE. ALL STUDS AND BRACES SHALL BE 33 KSI UNLESS NOTED OTHERWISE IN THESE DRAWINGS.
  - AT ALL DOORS PROVIDE TWO TABBED 18 GAUGE STUDS AT BOTH SIDES OF JAMB.
  - SEE GENERAL NOTES FOR ADDITIONAL ELEMENTS IN THE INDIVIDUAL WALL TYPES AND SPECIFIC DETAILS, INCLUDING UL RATINGS.



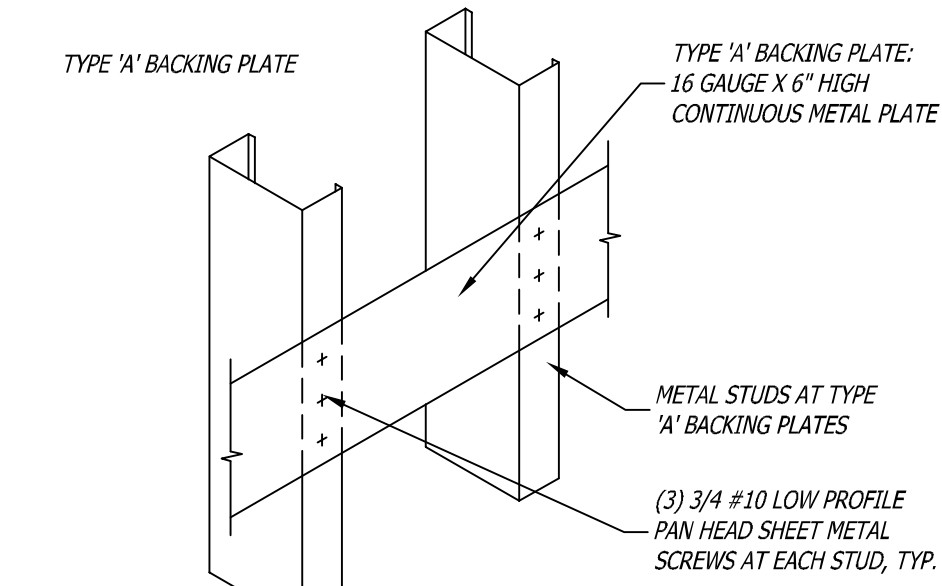
**DIMENSION FLOOR PLAN**

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



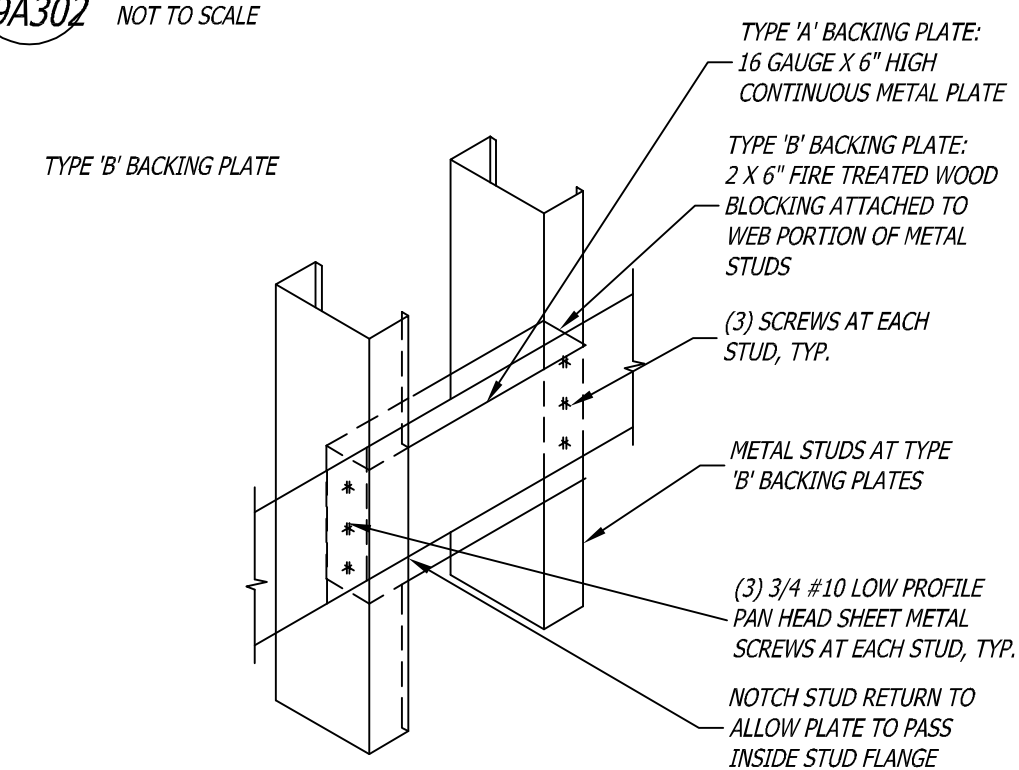
**DIMENSION NOTES:**

- ALL INTERIOR DIMENSIONS ARE TO FACE OF NEW OR EXISTING STEEL STUD OR EXISTING GYP BRD.
- ALL STUD WALLS EXTEND FROM FLOOR SLAB TO ROOF DECK ABOVE - ALLOW 1 DEFLECTION.
- REFER TO WALL TYPES ON SHEET 09A303 F OR FINISHES AND THIS SHEET FOR GAUGE OF STEEL STUDS



- TYPE 'A' BACKING PLATES:**
- AT DOOR STOPS AND BUMPER RAILS
  - AT TOILET ACCESSORIES, GRAB BARS, MIRRORS, COAT HOOKS, ETC.
  - AT ALL UPPER WALL HUNG CABINETS
  - AT ALL BASE CABINETS
  - AT ALL FULL HEIGHT CABINETS
  - AT WALL MOUNTED ADJUSTABLE SHELVING

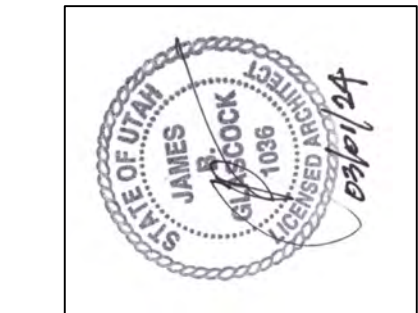
**1** TYPICAL TYPE A BACKING PLATE  
09A302 NOT TO SCALE



- TYPE 'B' BACKING PLATES:**
- TYPE 'B' BACKING PLATE SHALL SUPPORT THE SAME ITEMS AS TYPE 'A' BACKING PLATE AT THE CONTRACTOR'S DISCRETION

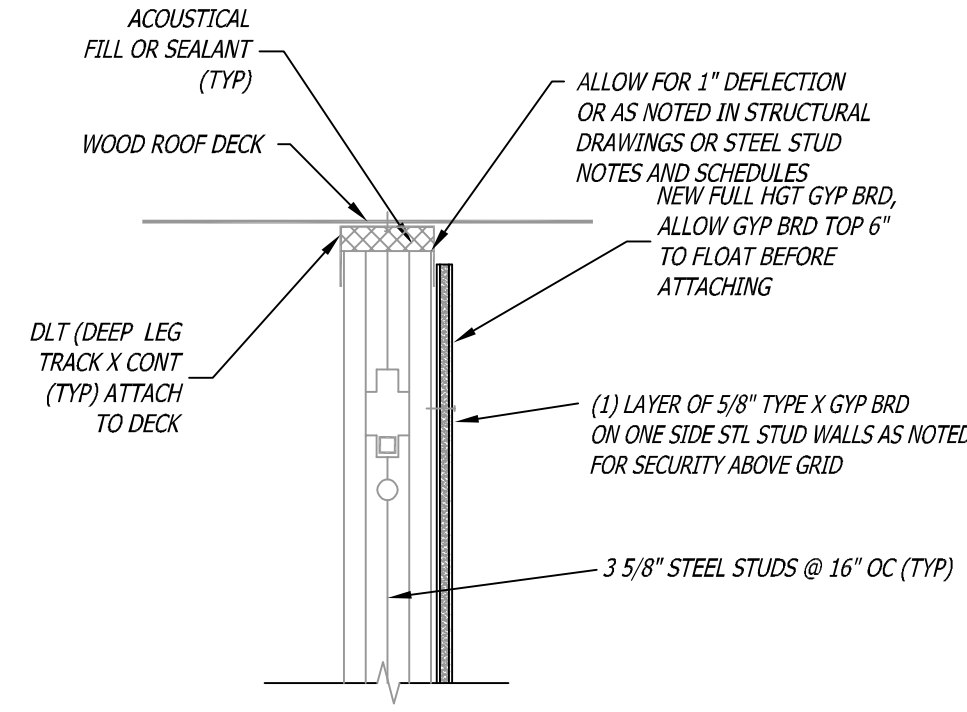
**2** TYPICAL TYPE B BACKING PLATE  
09A302 NOT TO SCALE

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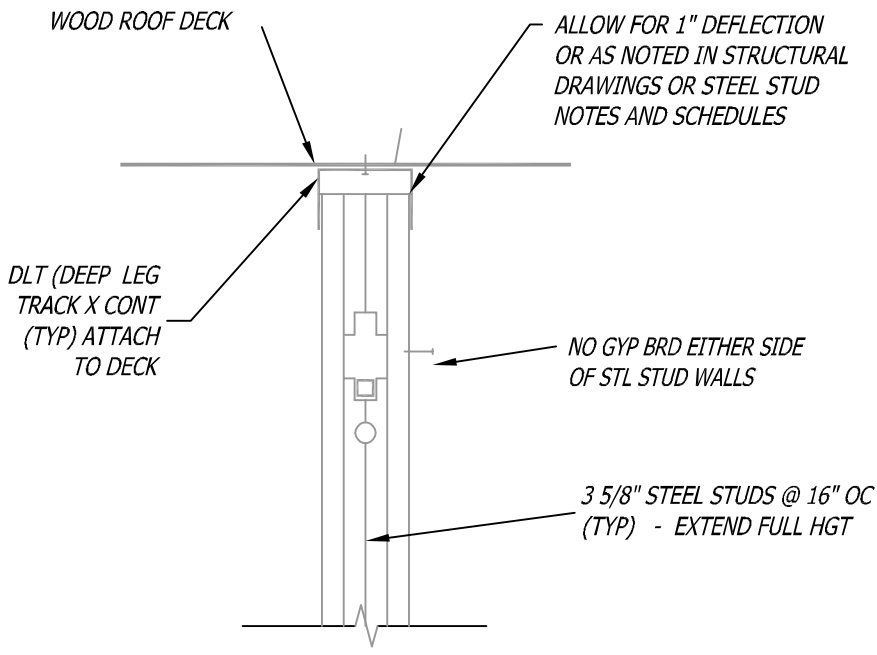


Project **24-001**  
**NORTH PLANT ADMINISTRATION OFFICE BUILDING**  
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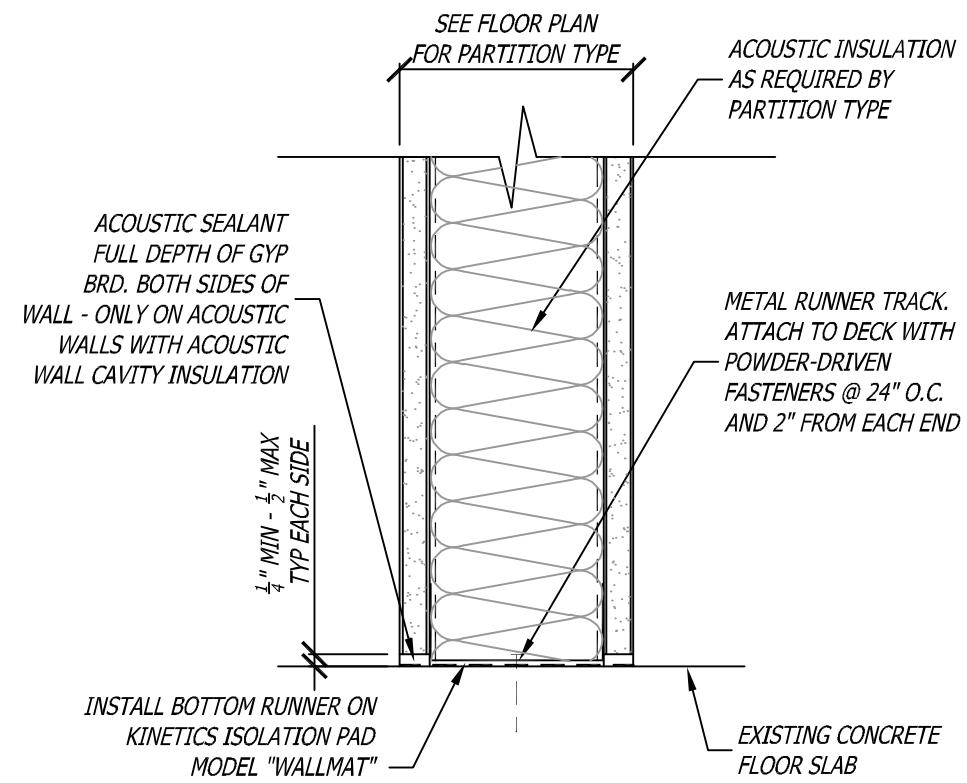
Date **03/01/24**  
 Revisions  
**09A302**



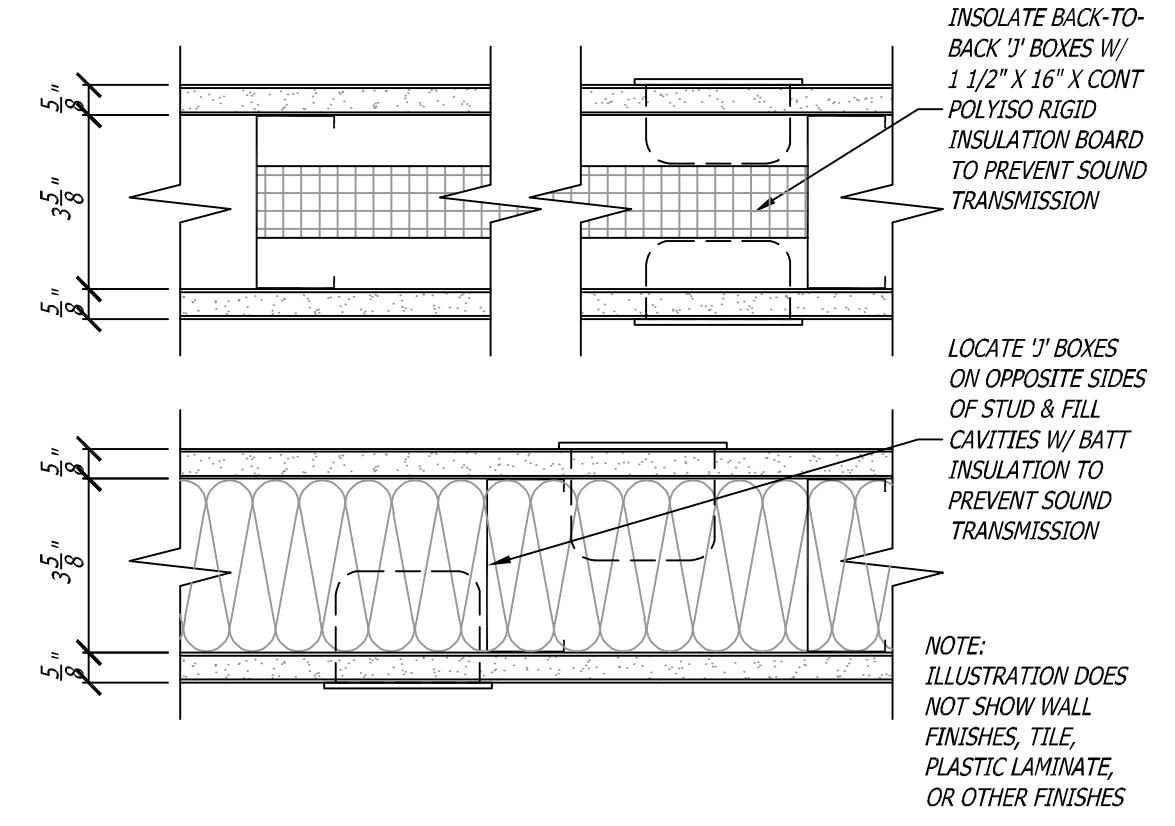
**1** SLIP TRACK DETAIL @ TOP OF WALL  
 09A303 1 1/2" = 1'-0" W/ GYP BRD X FULL HGT ONE SIDE



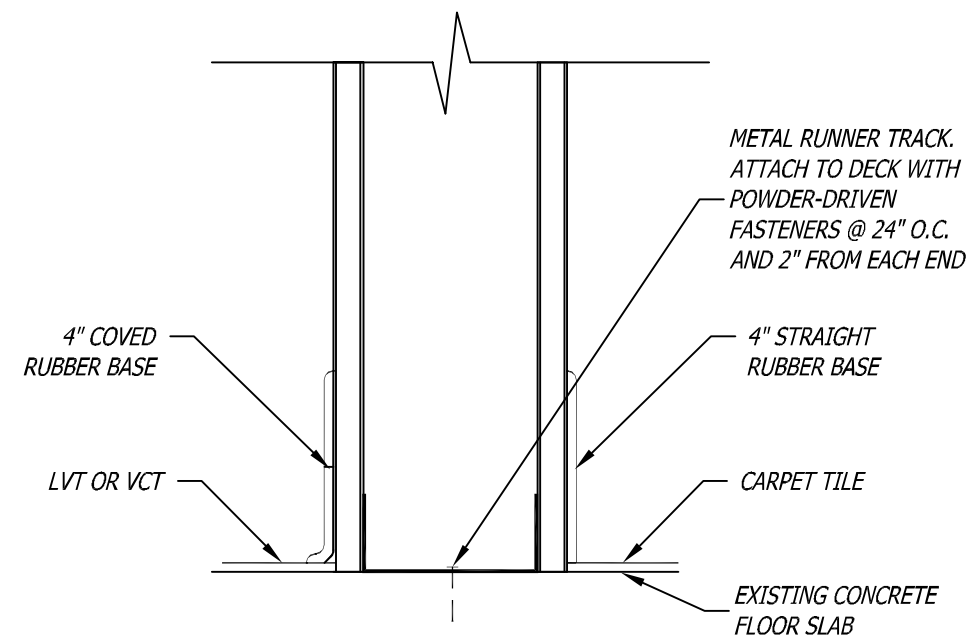
**2** SLIP TRACK DETAIL @ TOP OF WALL  
 09A303 1 1/2" = 1'-0"



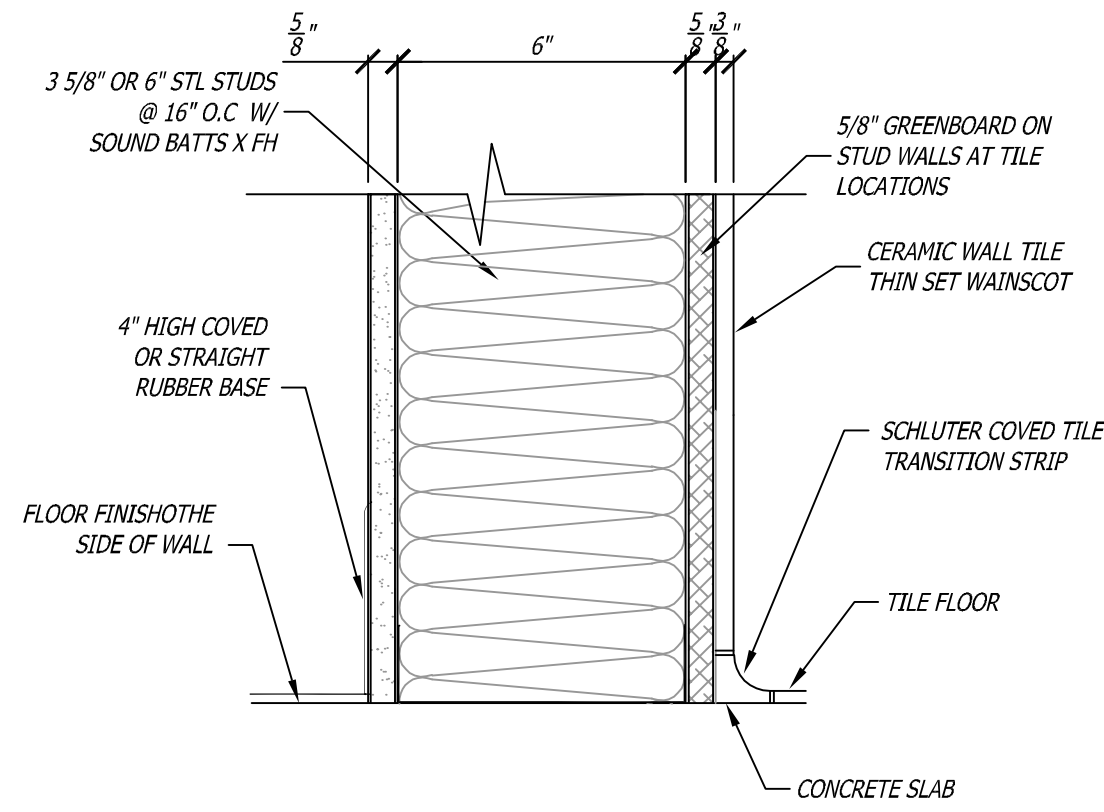
**3** TYPICAL ACOUSTIC RATED PARTITION BASE  
 09A303 3" = 1'-0"



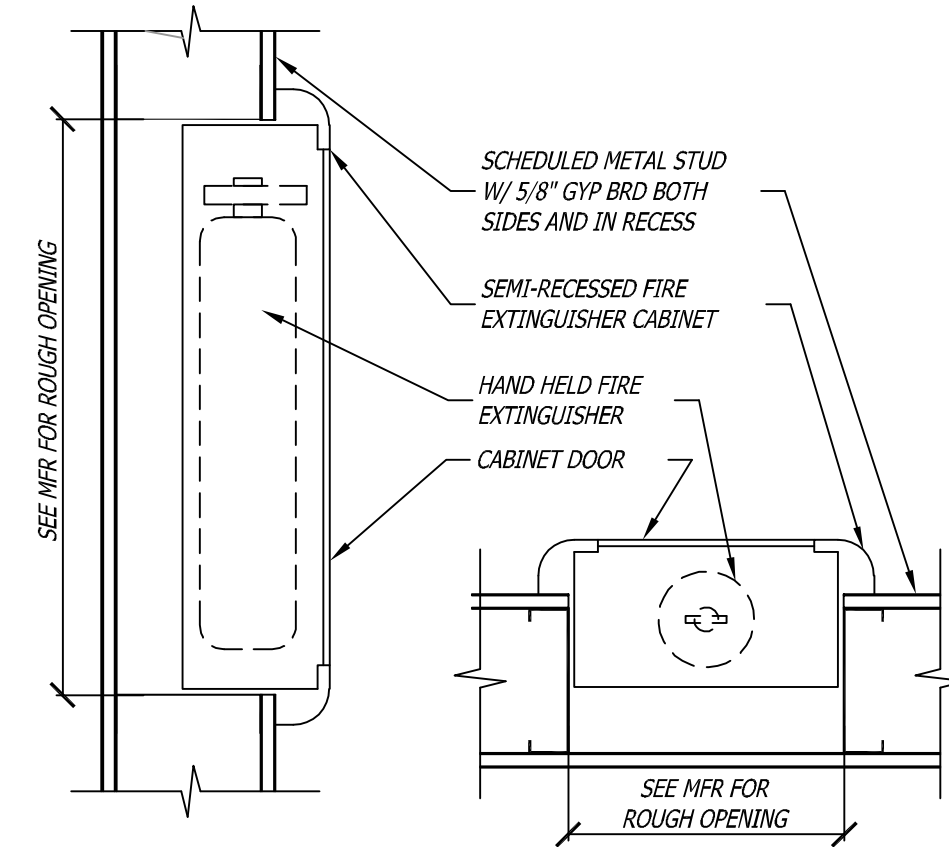
**4** TYPICAL ELECTRICAL DEVICE DETAIL  
 09A303 3" = 1'-0" FOR SOUND WALLS ONLY



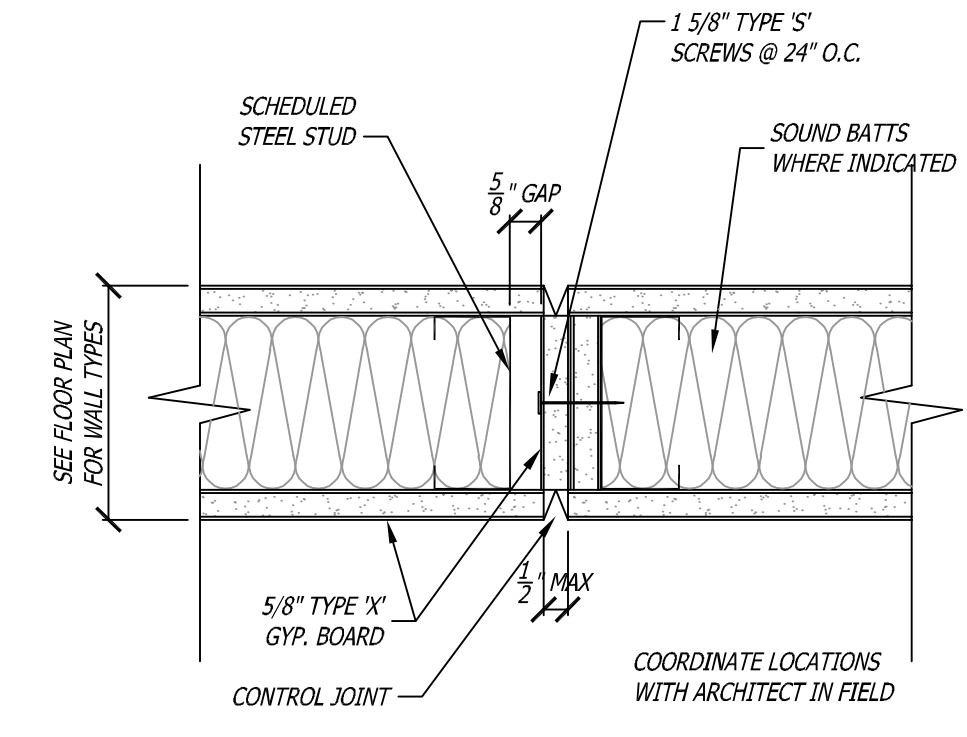
**5** TYPICAL NON-SOUND PARTITION BASE  
 09A303 3" = 1'-0"



**6** TYPICAL BASE AT TOILET RMS  
 09A303 3" = 1'-0" AT ADJACENT SPACES



**7** FIRE EXTINGUISHER CABINET  
 09A303 3" = 1'-0"



**8** TYPICAL STUD FRAMED CONTROL JOINT  
 09A303 3" = 1'-0" LOCATED AT 30'-0" OC MAXIMUM

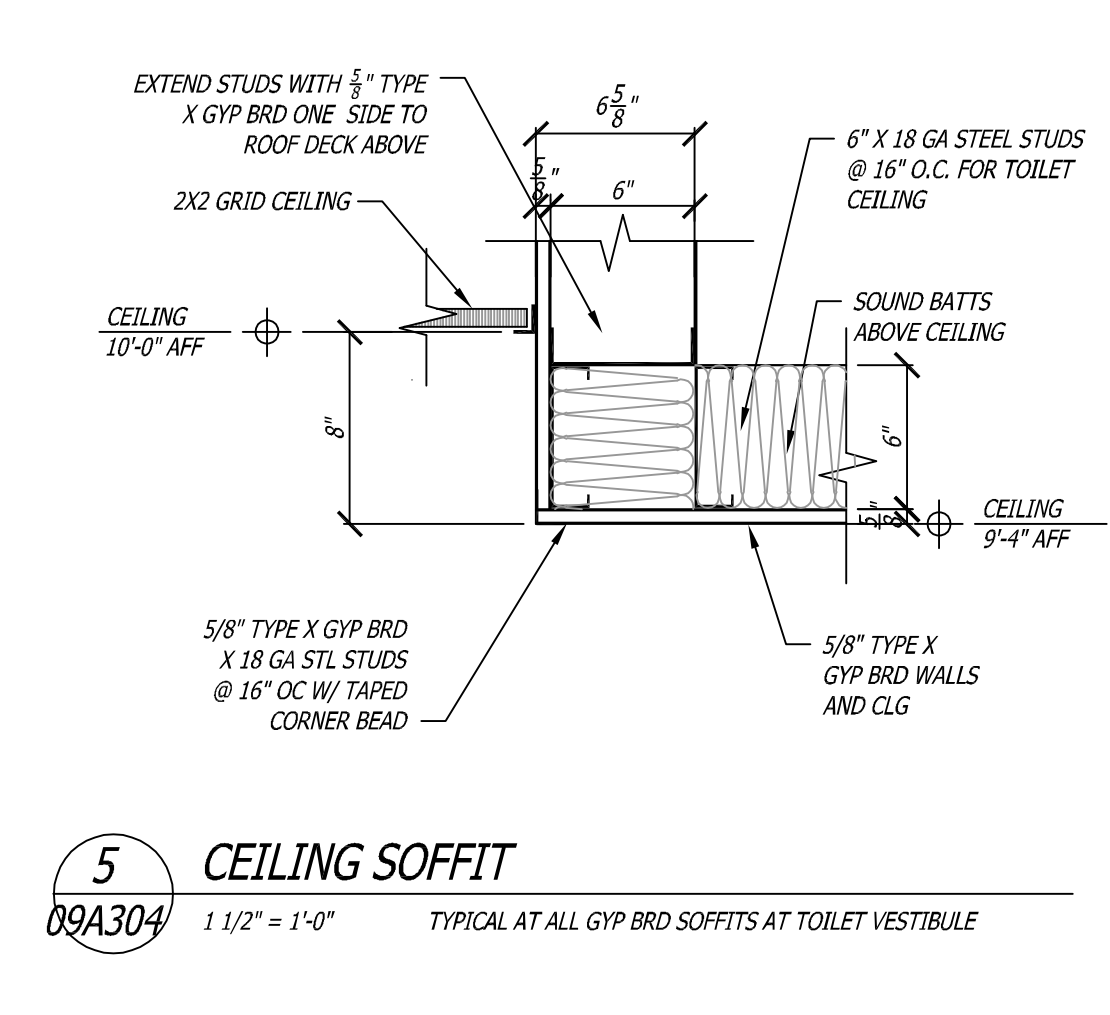
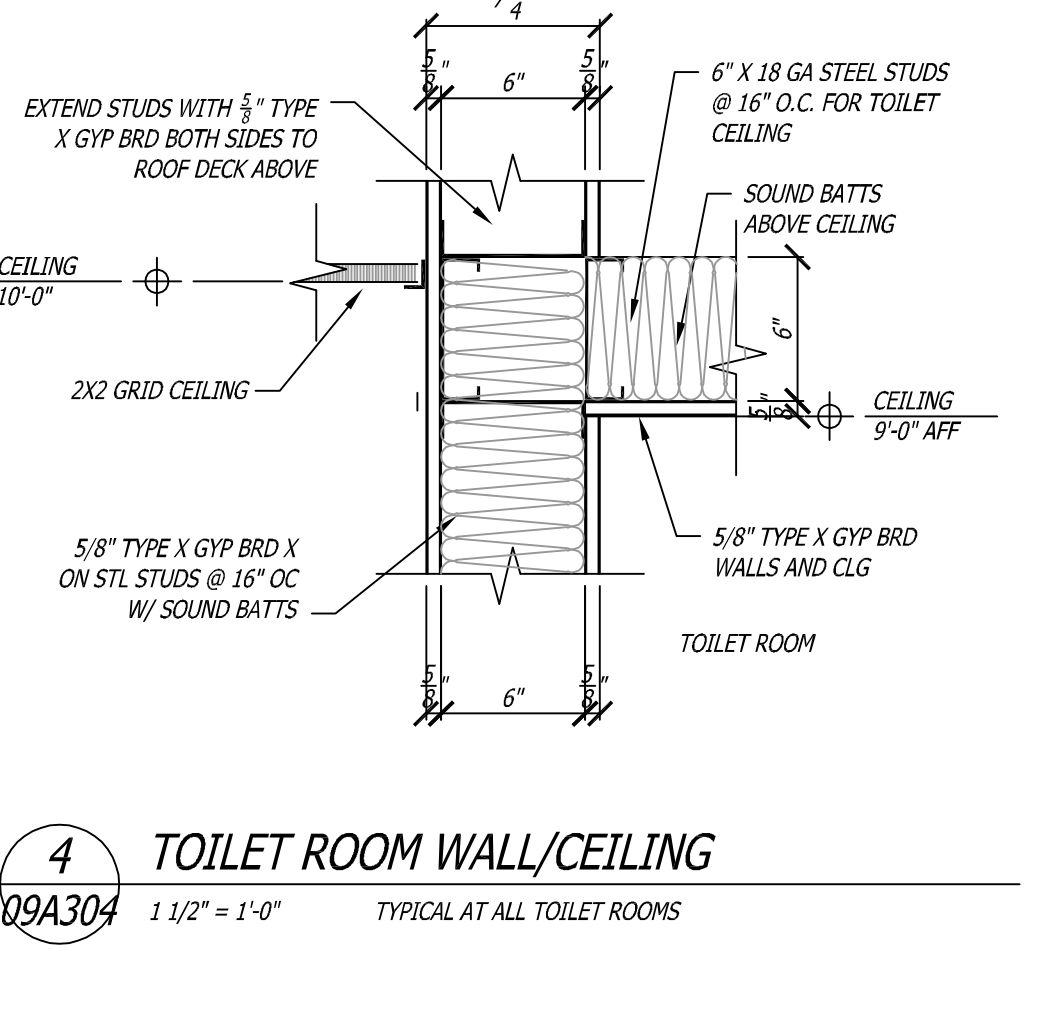
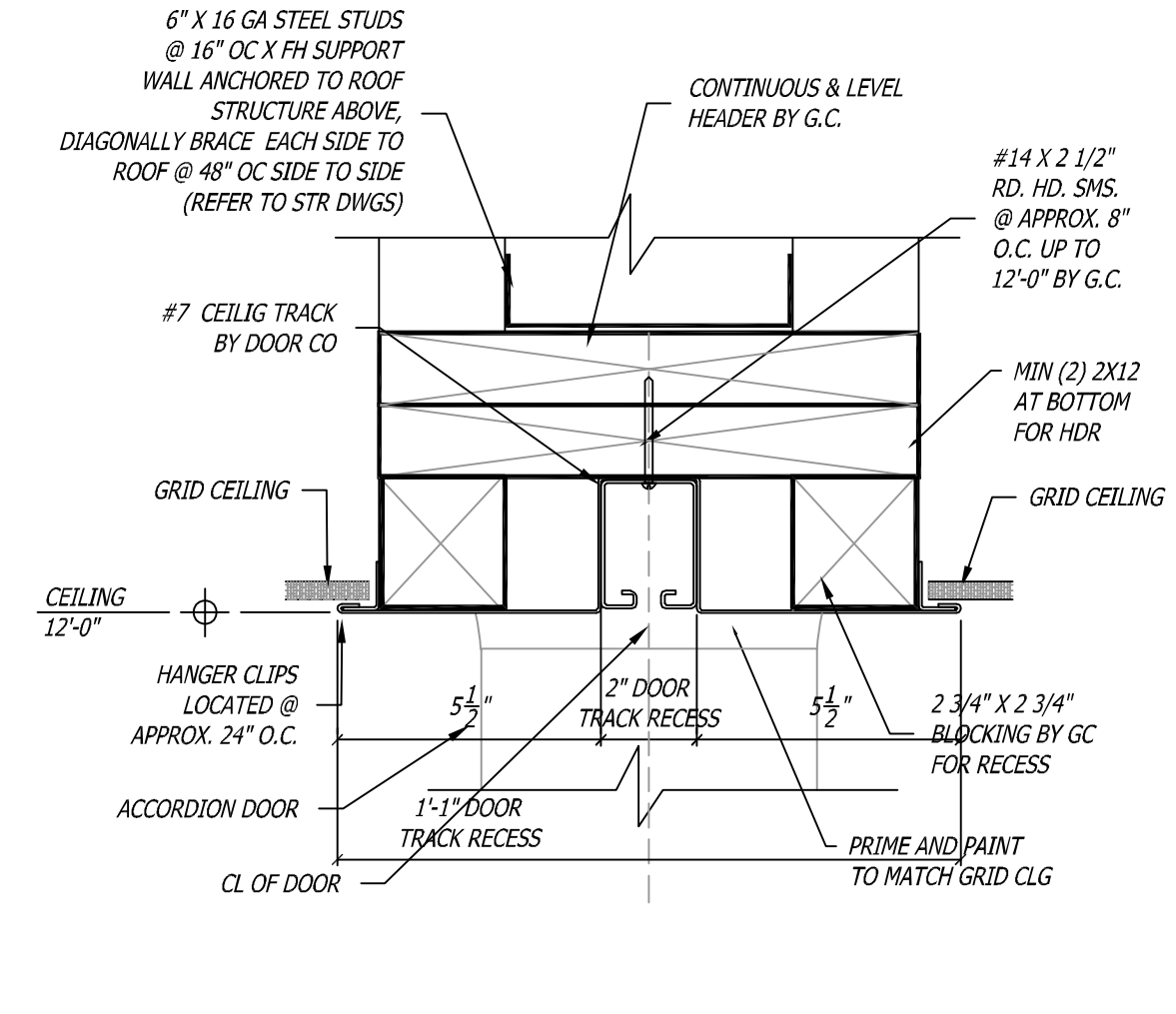
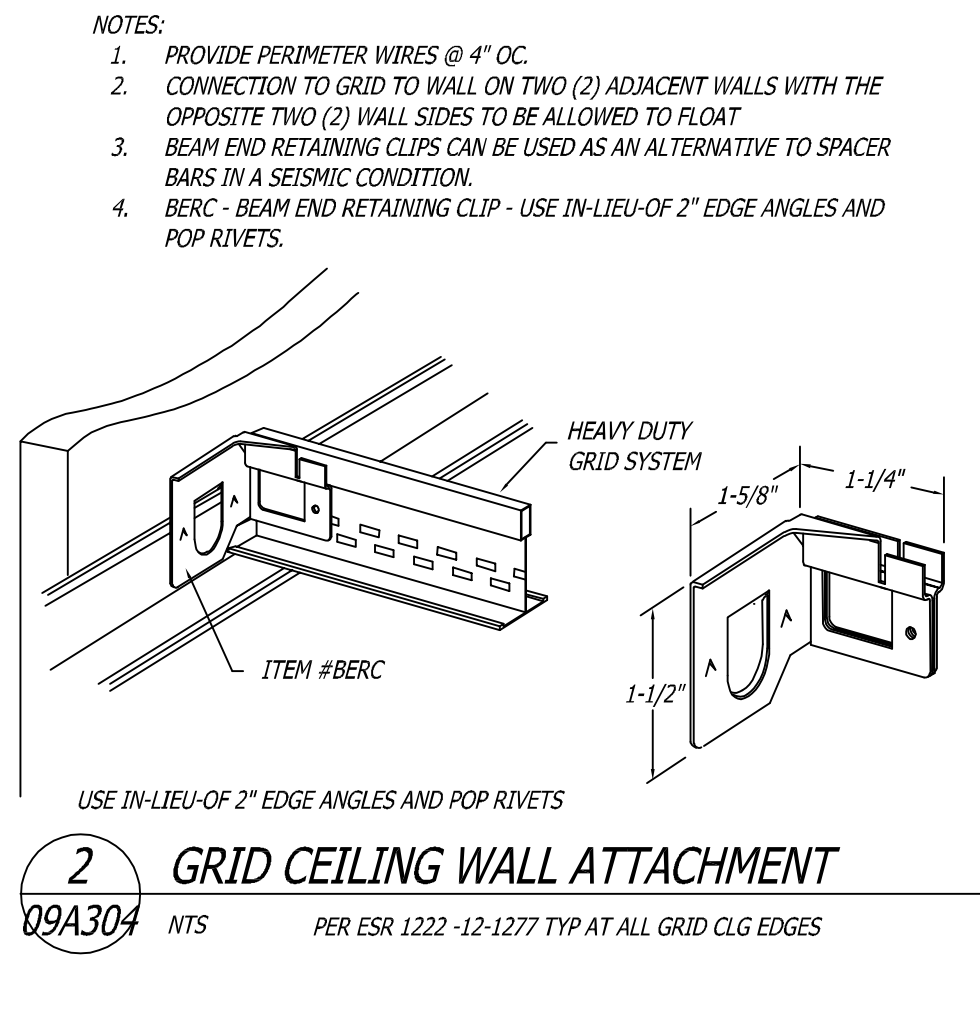
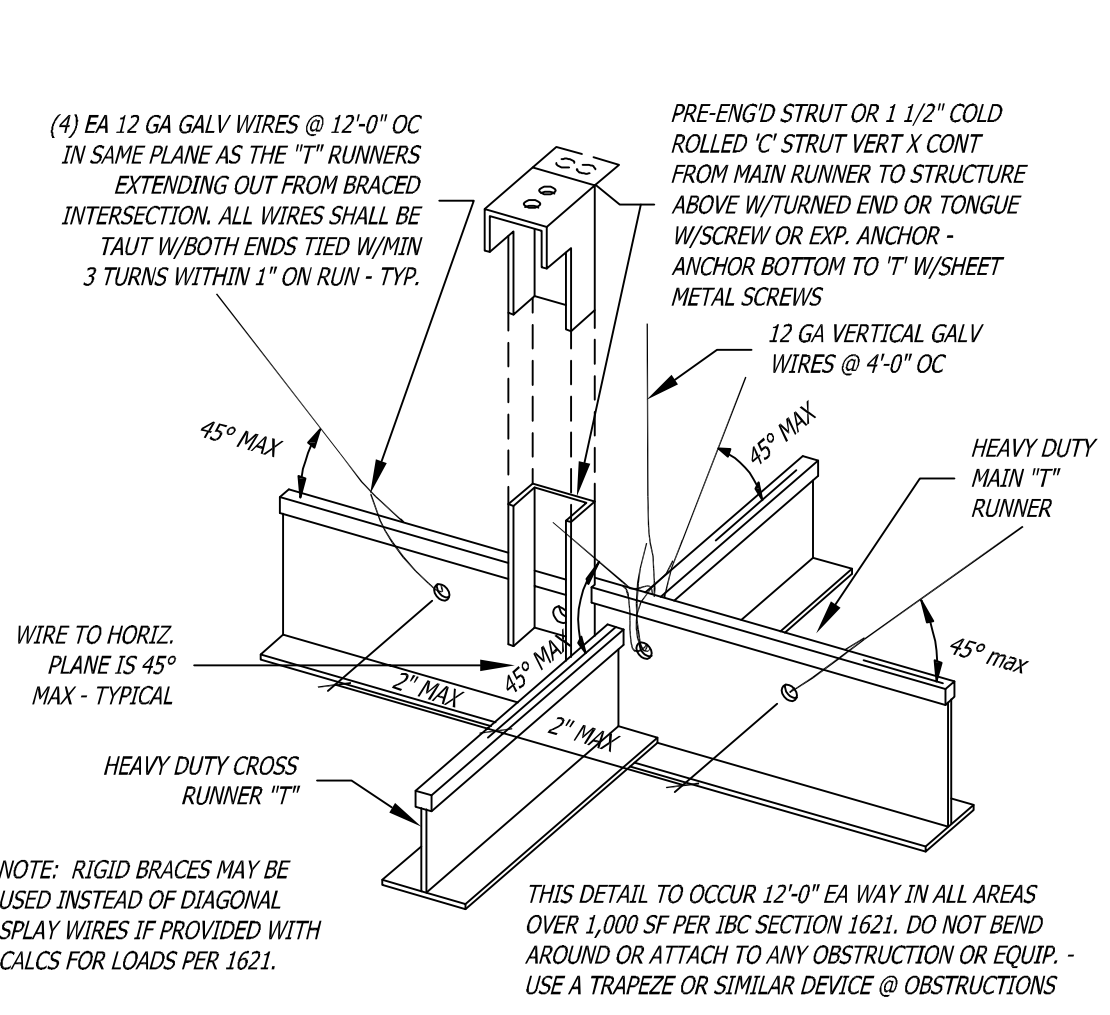
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Project  
**24-001**  
**NORTH PLANT ADMINISTRATION OFFICE BUILDING**  
 SOUTH DAVIS SEWER DISTRICT  
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Date	Revisions
03/01/24	09A303

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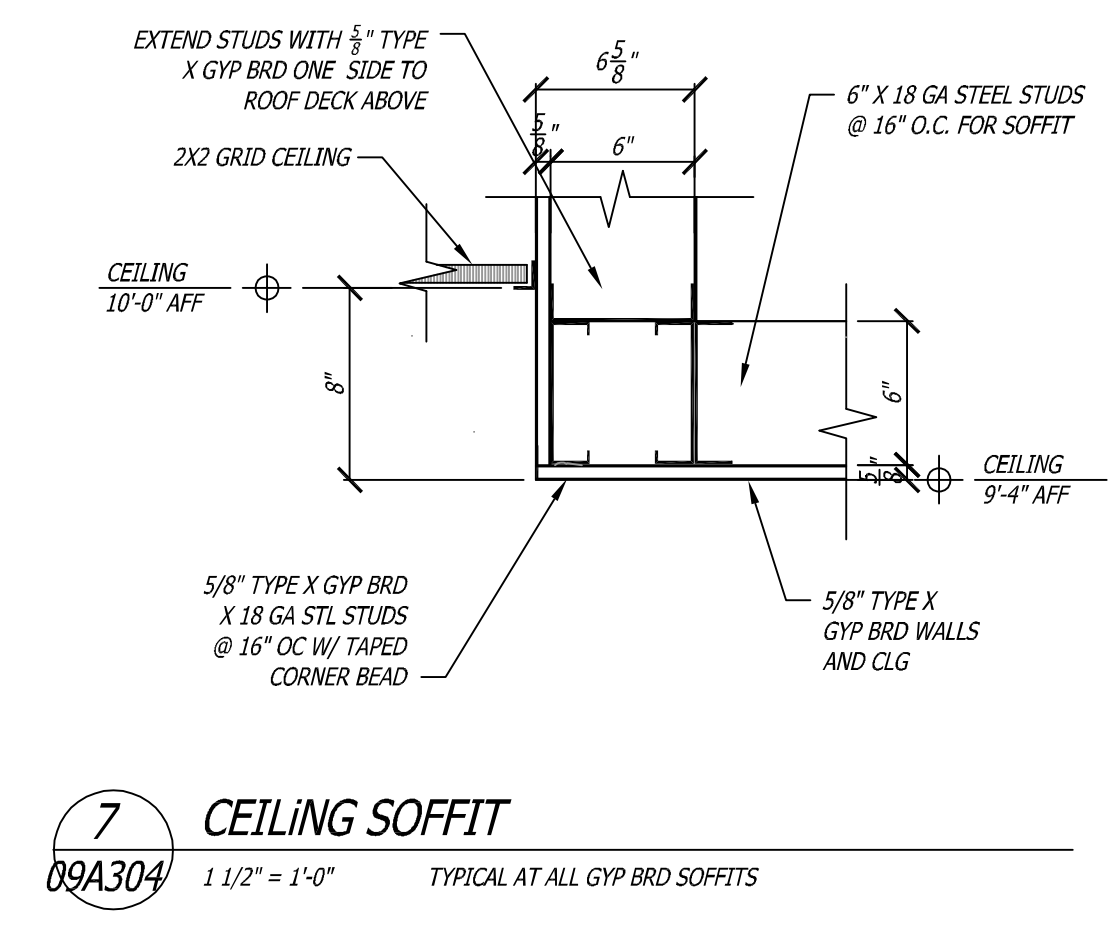
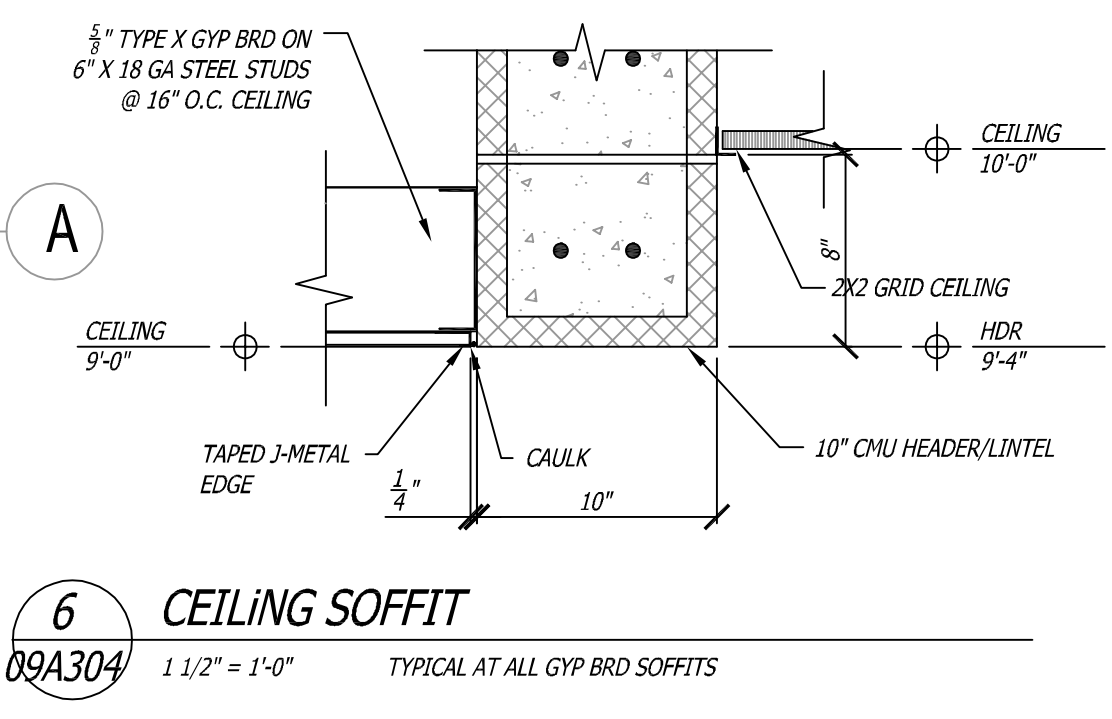
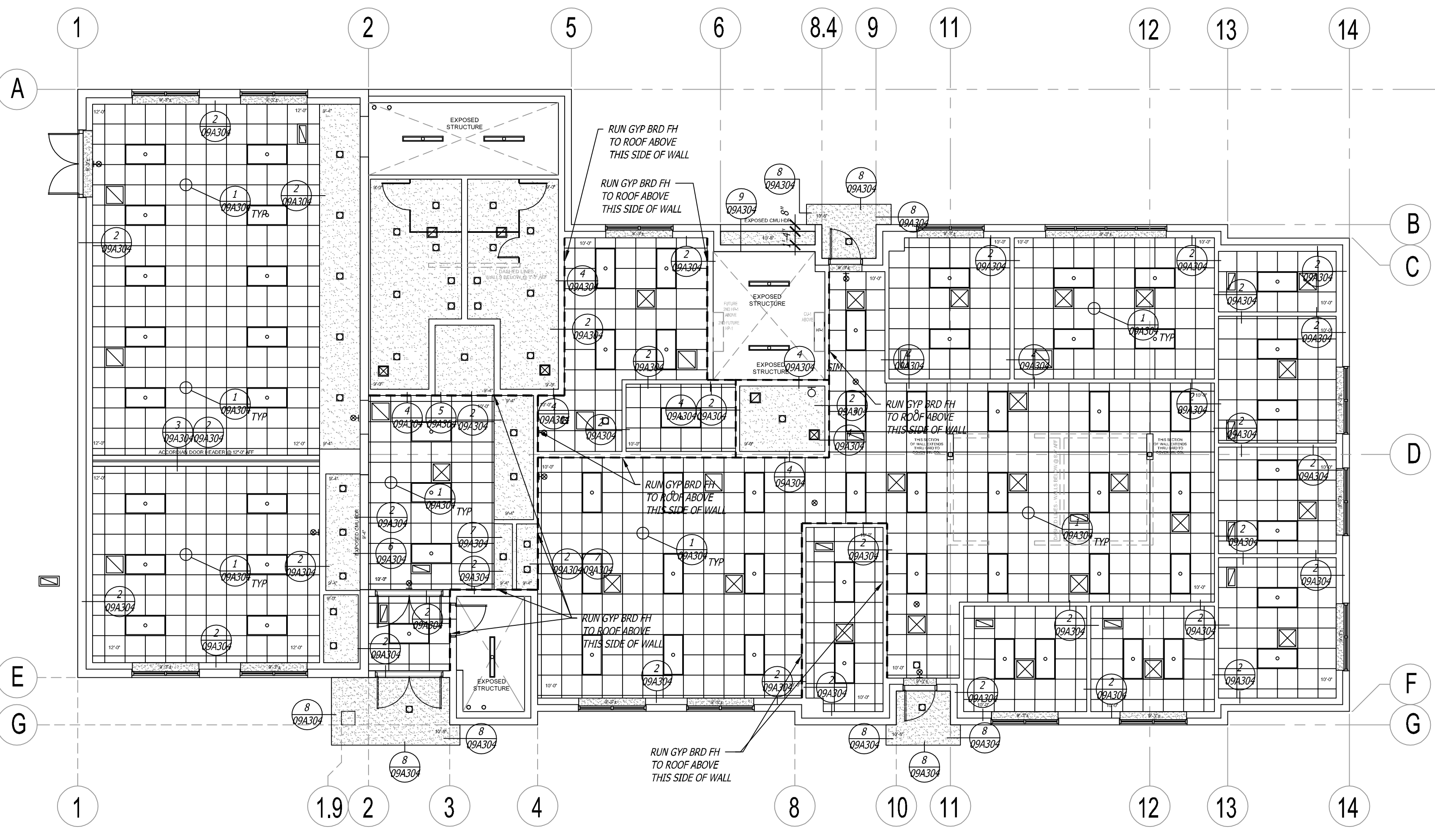
**1** GRID CEILING SEISMIC BRACING DETAIL  
09A304 NO SCALE

**2** GRID CEILING WALL ATTACHMENT  
09A304 NTS PER ESR 1222-12-1277 TYP AT ALL GRID CLG EDGES

**3** ACCORDION DOOR HEAD  
09A304 3" = 1'-0" VERIFY DETAIL WITH DOOR MFR

**4** TOILET ROOM WALL/CEILING  
09A304 1 1/2" = 1'-0" TYPICAL AT ALL TOILET ROOMS

**5** CEILING SOFFIT  
09A304 1 1/2" = 1'-0" TYPICAL AT ALL GYP BRD SOFFITS AT TOILET VESTIBULE

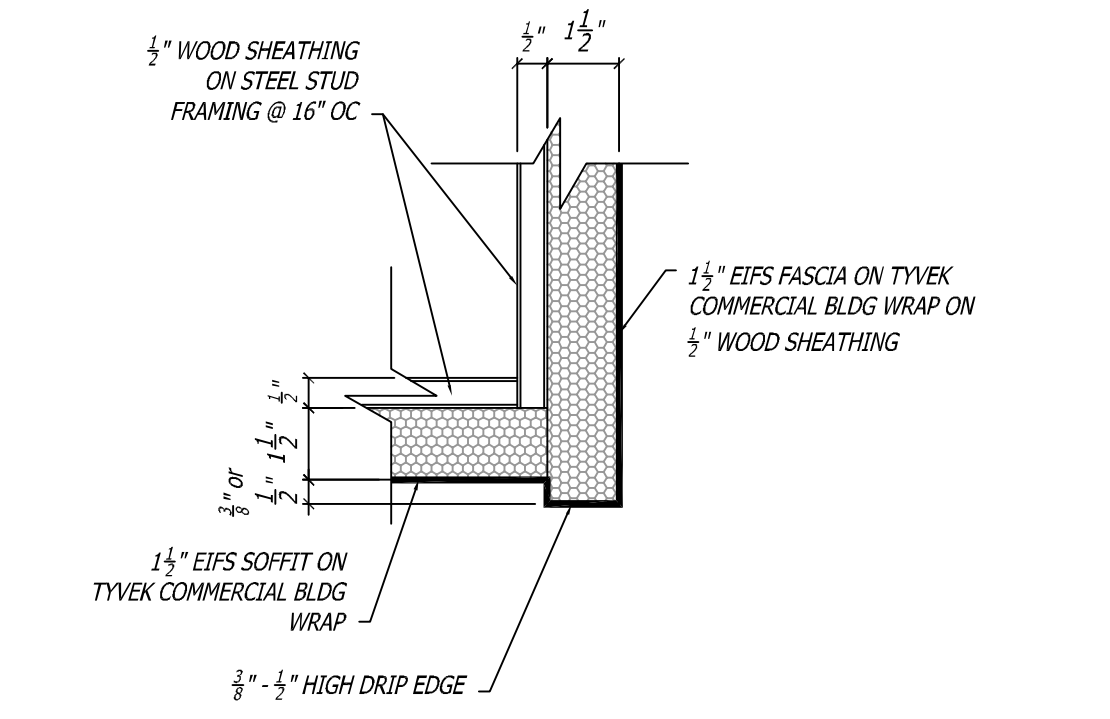


**6** CEILING SOFFIT  
09A304 1 1/2" = 1'-0" TYPICAL AT ALL GYP BRD SOFFITS

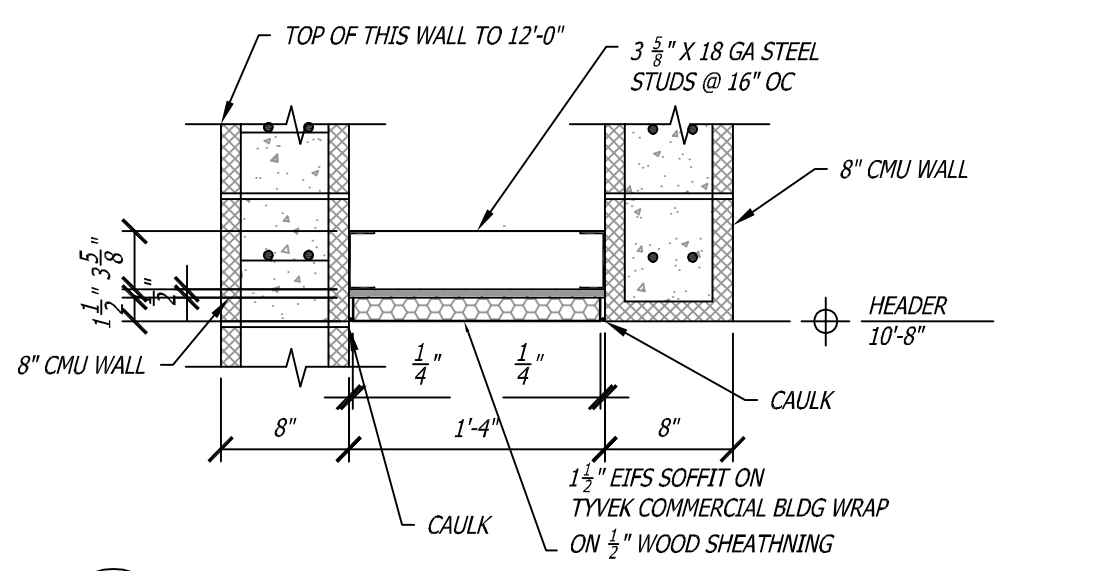
**7** CEILING SOFFIT  
09A304 1 1/2" = 1'-0" TYPICAL AT ALL GYP BRD SOFFITS

**KEY TO SYMBOLS**

- 2'X2' NONRATED HEAVY DUTY CEILING TILE & SUSPENDED GRID - WITH SEISMIC BRACING - SEE DETAILS
- 2'X4' GRID MOUNTED LED LIGHT FIXTURE
- 2'X2' GRID MOUNTED LED LIGHT FIXTURE
- 2'X4' GRID MOUNTED EMERGENCY LED LIGHT FIXTURE WITH BATTERY BACK-UP
- PRE-FINISHED NON-RATED SUPPLY AIR DIFFUSER IN 2'X4' SUSPENDED GRID CEILING
- PRE-FINISHED NON-RATED RETURN AIR GRILLE IN 2'X2' SUSPENDED GRID CEILING
- 5/8" TYPE 'X' INTERIOR OR EXTERIOR GRADE GYP BRD - PRIMED AND PAINTED ON SUSPENDED FRAMING - SEE DETAILS
- CEILING MOUNTED SMOKE OR THERMAL DETECTOR - SEE ELEC
- WALL MOUNTED EXIT SIGN WITH EXIT DIRECTION W/ BATTERY BACK-UP
- CEILING MOUNTED EXIT SIGN WITH EXIT DIRECTION W/ BATTERY BACK-UP
- SURFACE MOUNTED OR EXPOSED LED LIGHT FIXTURE OR J-BOX
- RECESSED LED LIGHT FIXTURE
- SURFACE MOUNTED INTERIOR LED WALL LIGHT FIXTURE

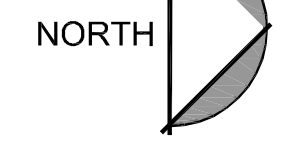
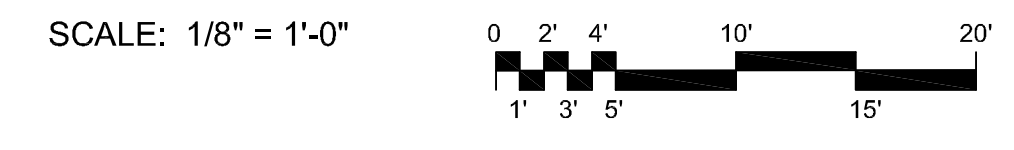


**8** EIFS SOFFIT DRIP DETAIL  
09A304 3" = 1'-0"

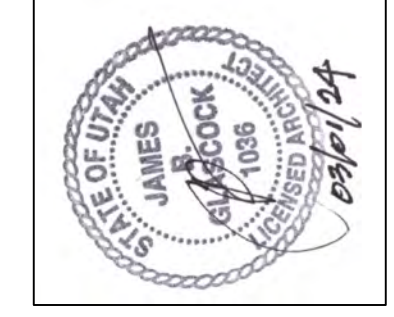


**9** EIFS SOFFIT  
09A304 1" = 1'-0"

**REFLECTED CEILING PLAN**



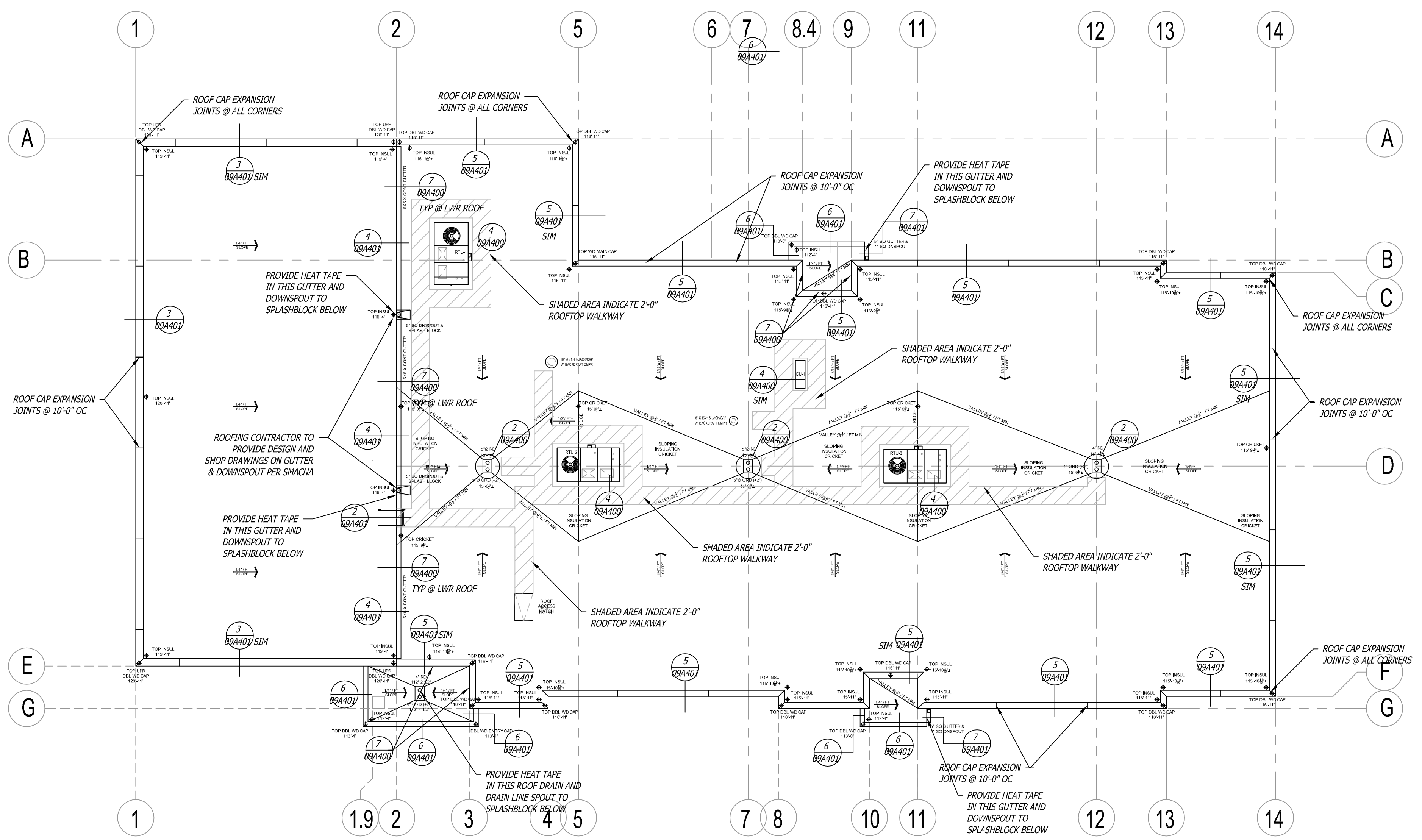
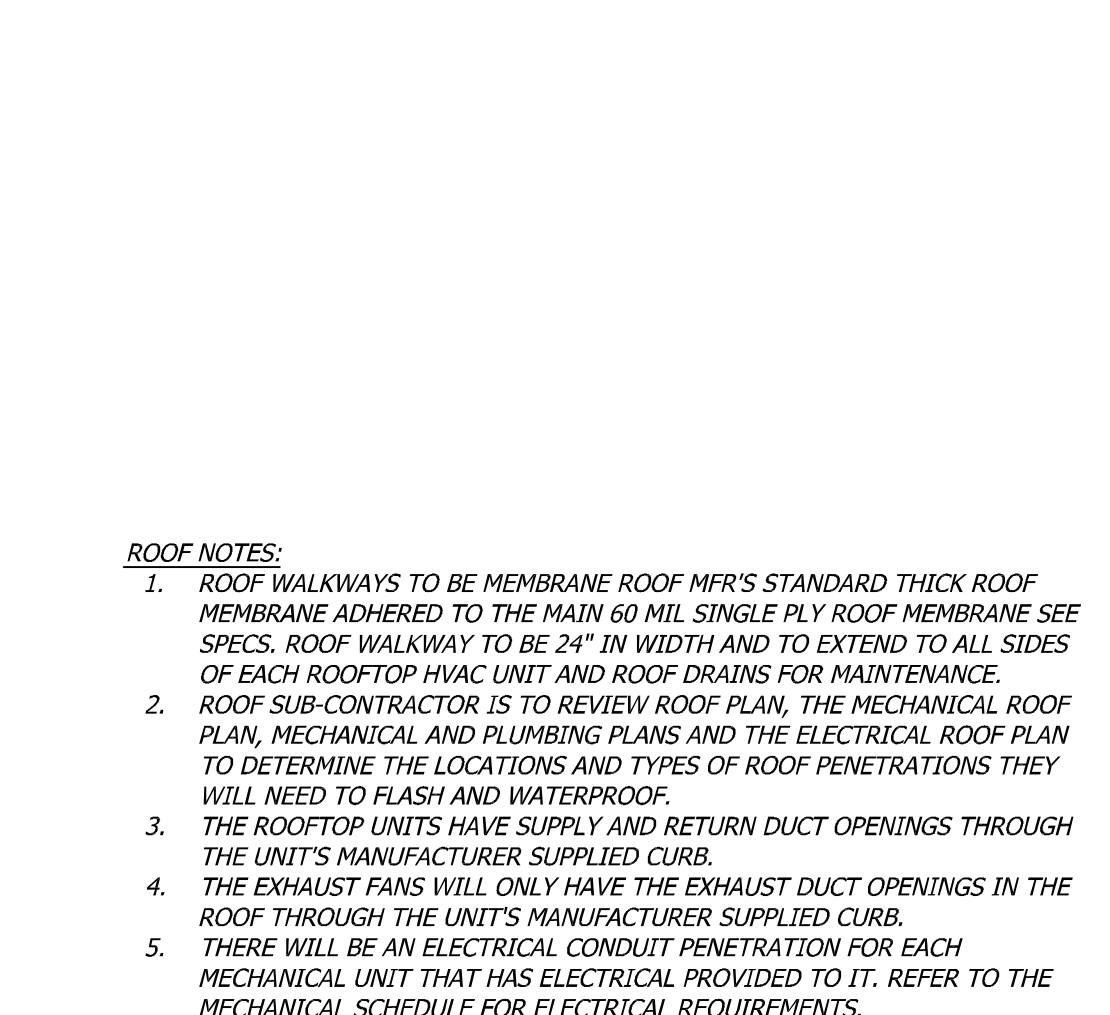
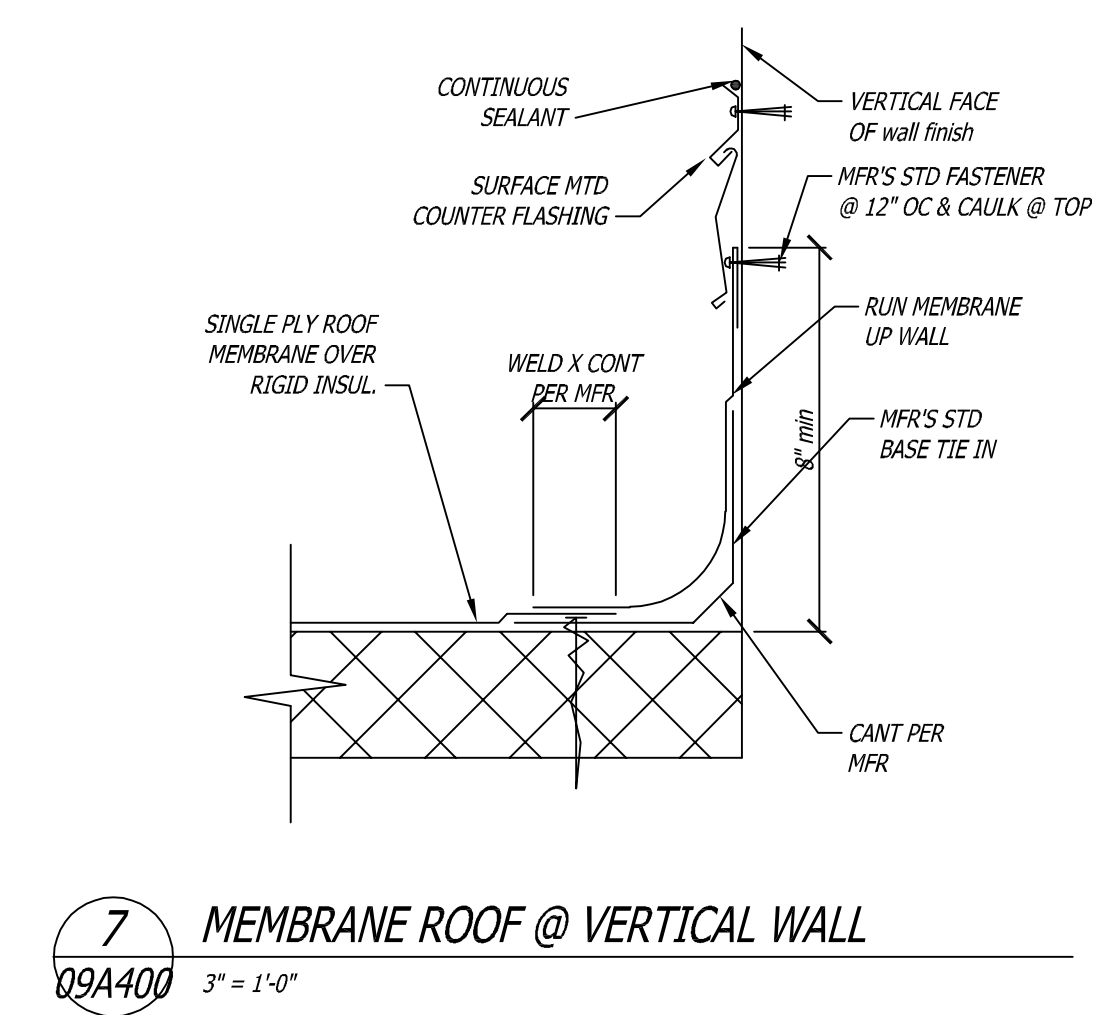
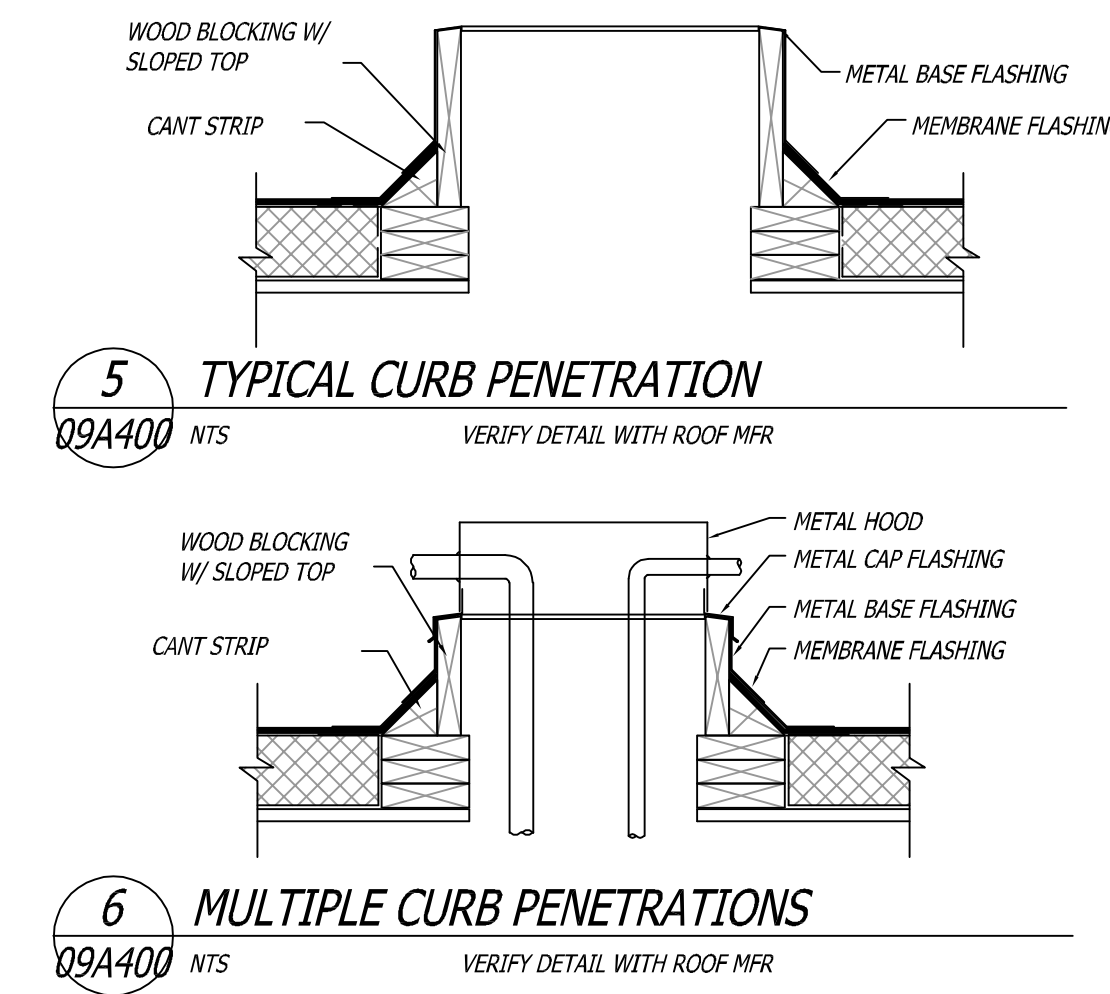
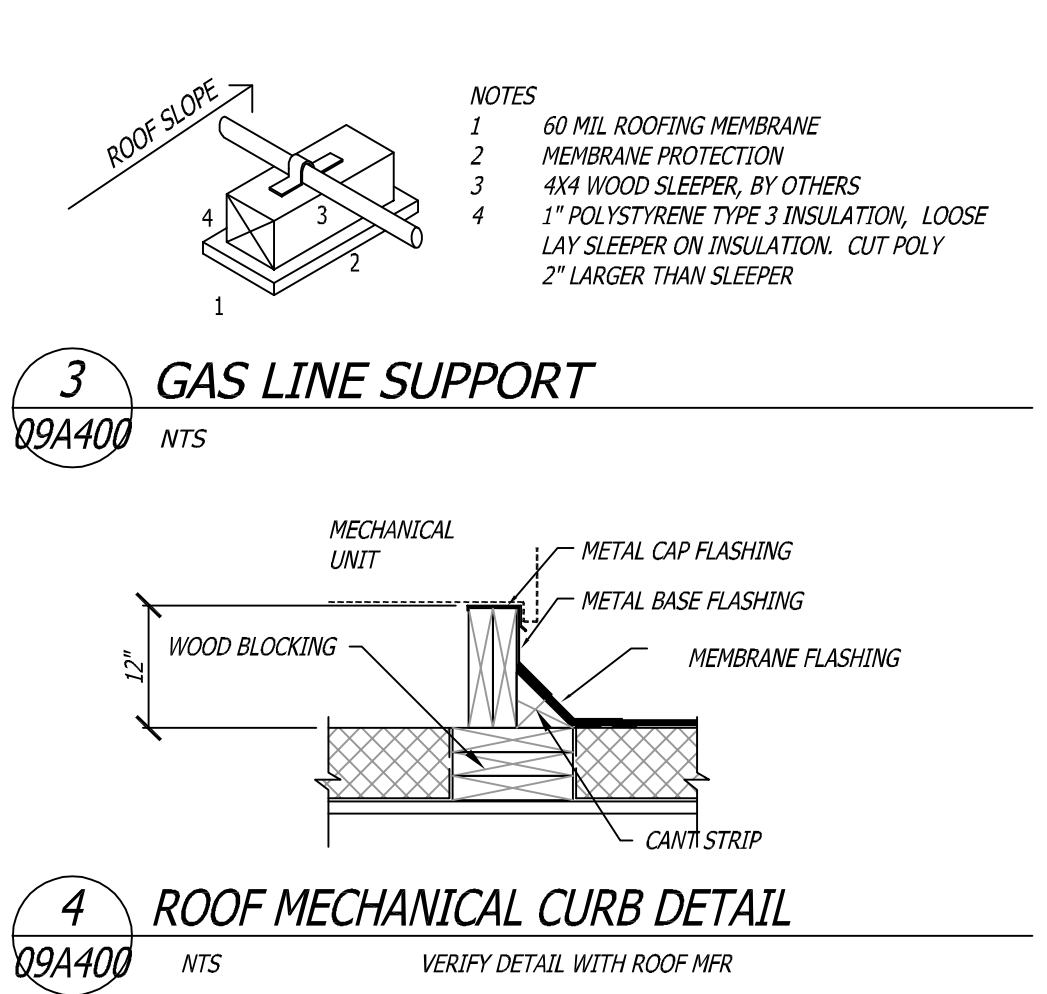
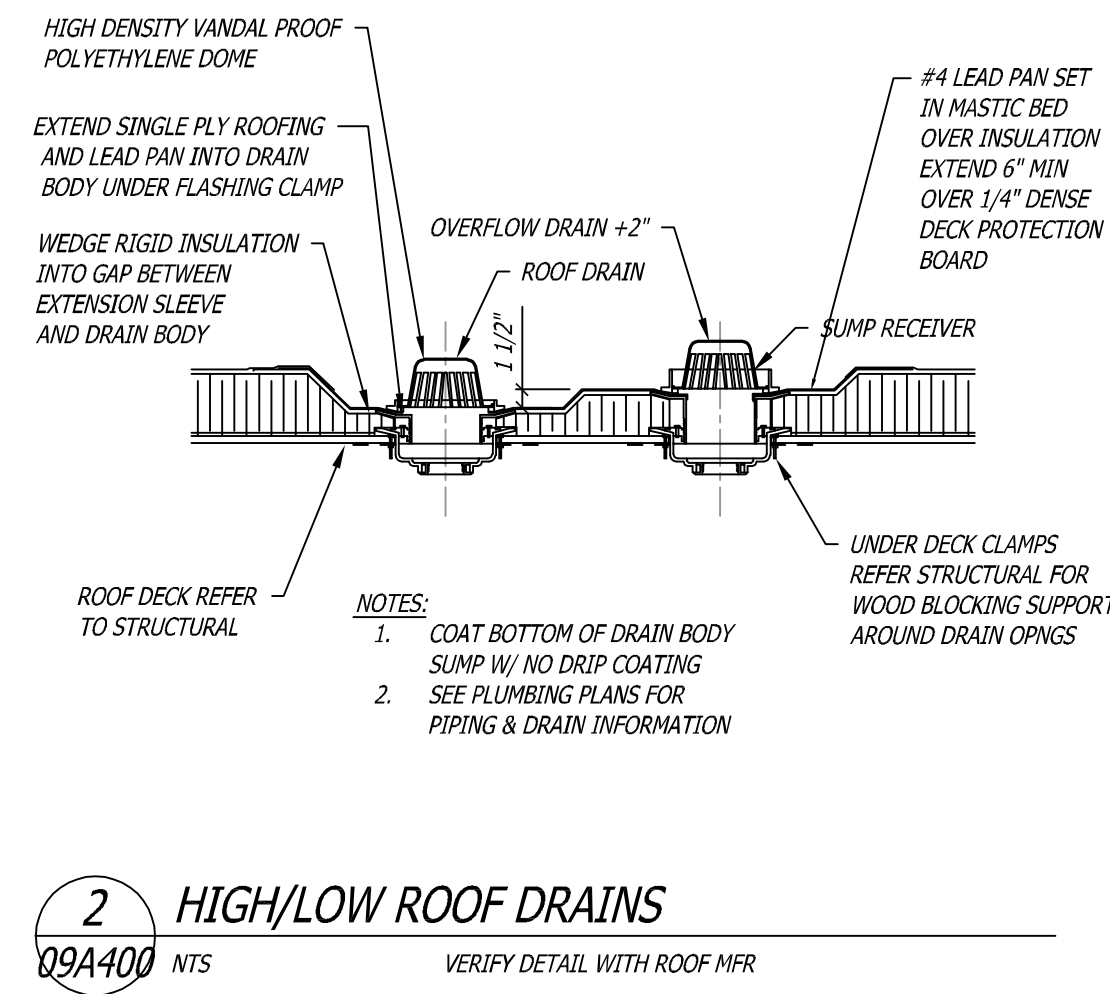
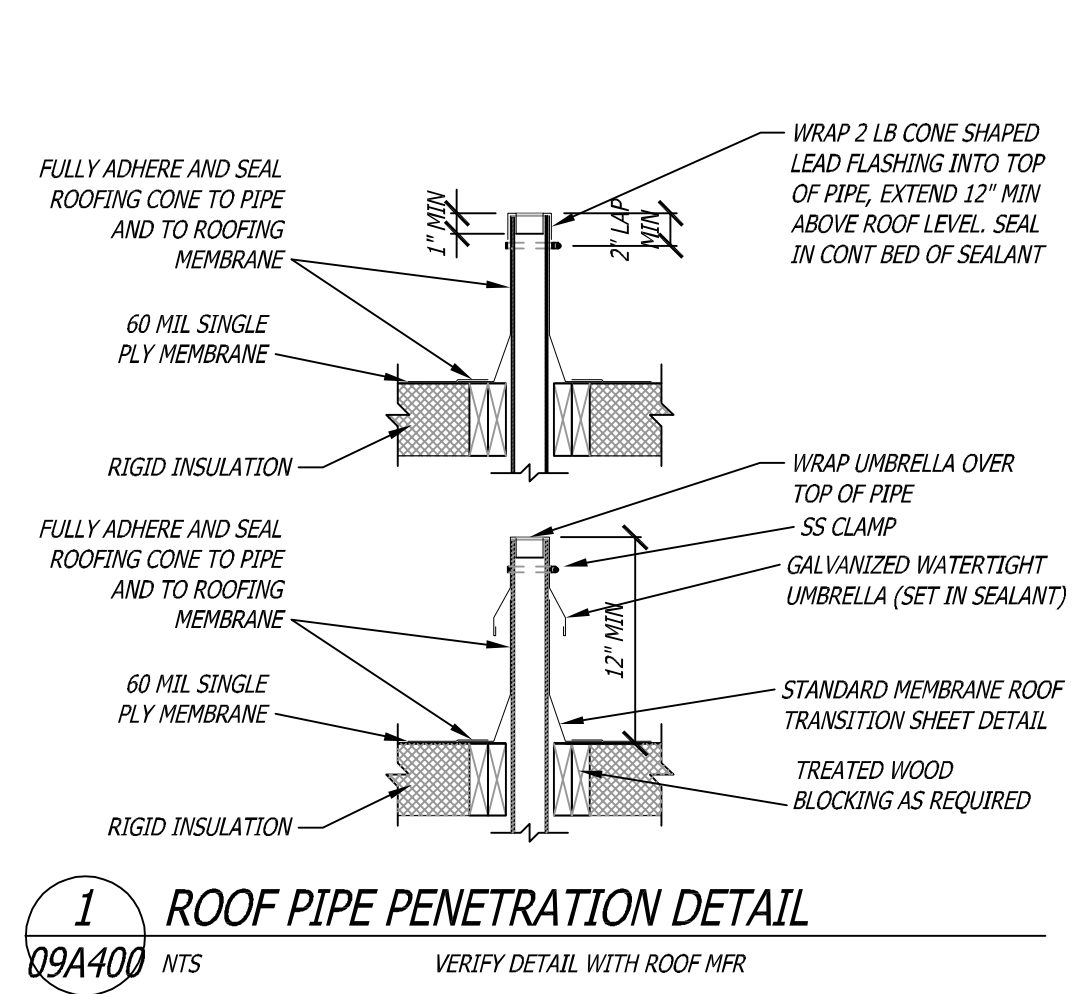
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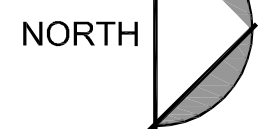
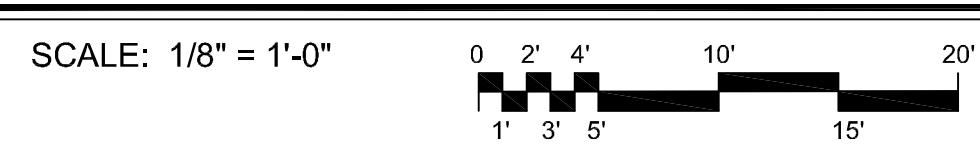
Project  
**24-001**  
NORTH PLANT ADMINISTRATION OFFICE BUILDING  
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03/01/24  
Revisions  
**09A304**



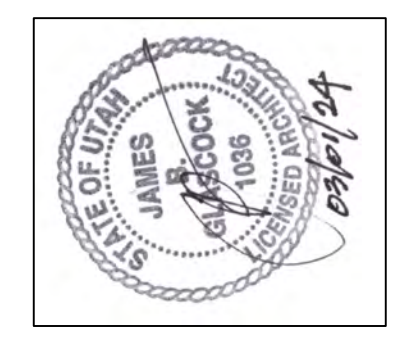


**ROOF PLAN**



- ROOF NOTES:**
1. ROOF WALKWAYS TO BE MEMBRANE ROOF MFR'S STANDARD THICK ROOF MEMBRANE ADHERED TO THE MAIN 60 MIL SINGLE PLY ROOF MEMBRANE SEE SPECS. ROOF WALKWAY TO BE 24" IN WIDTH AND TO EXTEND TO ALL SIDES OF EACH ROOFTOP HVAC UNIT AND ROOF DRAINS FOR MAINTENANCE.
  2. ROOF SUB-CONTRACTOR IS TO REVIEW ROOF PLAN, THE MECHANICAL ROOF PLAN, MECHANICAL AND PLUMBING PLANS AND THE ELECTRICAL ROOF PLAN TO DETERMINE THE LOCATIONS AND TYPES OF ROOF PENETRATIONS THEY WILL NEED TO FLASH AND WATERPROOF.
  3. THE ROOFTOP UNITS HAVE SUPPLY AND RETURN DUCT OPENINGS THROUGH THE UNIT'S MANUFACTURER SUPPLIED CURB.
  4. THE EXHAUST FANS WILL ONLY HAVE THE EXHAUST DUCT OPENINGS IN THE ROOF THROUGH THE UNIT'S MANUFACTURER SUPPLIED CURB.
  5. THERE WILL BE AN ELECTRICAL CONDUIT PENETRATION FOR EACH MECHANICAL UNIT THAT HAS ELECTRICAL PROVIDED TO IT. REFER TO THE MECHANICAL SCHEDULE FOR ELECTRICAL REQUIREMENTS.
  6. SEE MECHANICAL PLANS FOR TYPICAL GENERIC ROOF CURB DETAILS - (MUST BE EITHER TREATED WOOD OR MANUFACTURER SUPPLIED PREFAB CURB)
  7. ALL DETAILS ARE SUBJECT TO THE ROOFING MEMBRANE MANUFACTURER'S STANDARD WATERTIGHT ROOFING DETAILS TO BE SUPPLIED AS PART OF THE SHOP DRAWINGS FOR ALL TYPES OF PENETRATIONS.
  8. DETAIL 1/09A400 FOR ALL ROOF PIPE PENETRATIONS. ELECTRICAL CONDUITS WOULD BE SIMILAR. ROOF SUB-CONTRACTOR IS TO REVIEW THE PLUMBING MECHANICAL AND ELECTRICAL PLANS TO DETERMINE THE LOCATIONS AND NUMBER OF VENT PIPES, PLUMBING PIPING AND ELECTRICAL CONDUIT PENETRATIONS. THESE ARE TO BE SHOWN ON THE SHOP DRAWINGS.

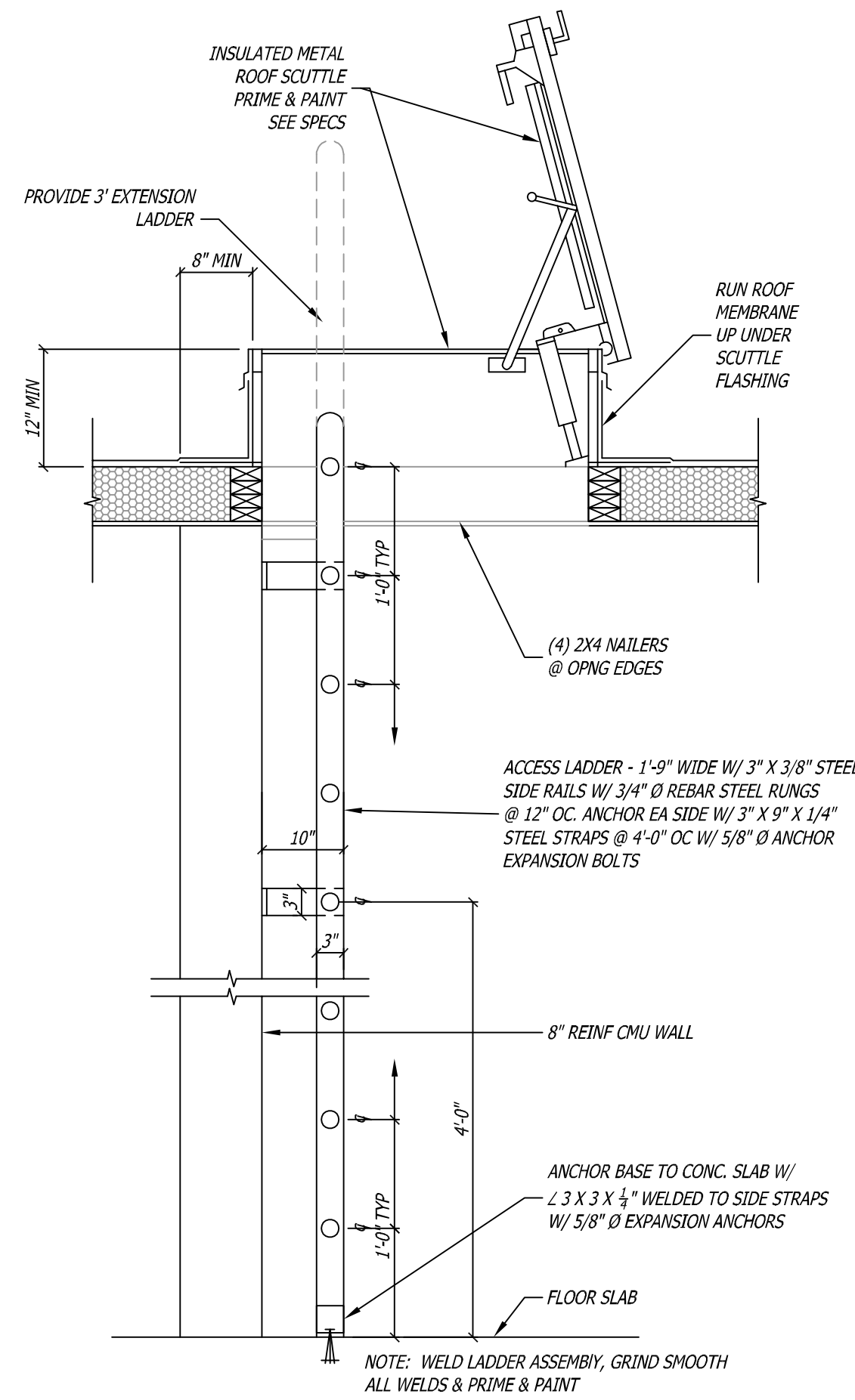
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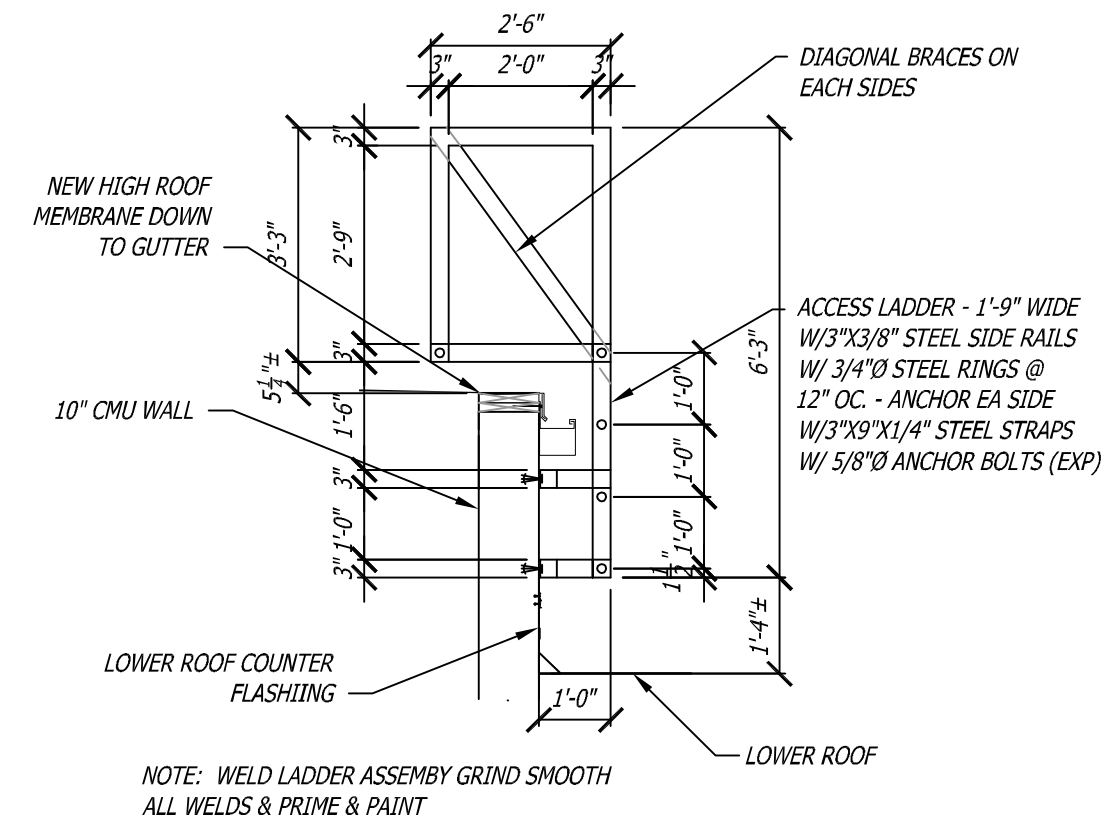
**Project** 24-001  
**North Plant Administration Office Building**  
South Davis Sewer District  
1800 West 1200 North  
West Bountiful, Utah

Date	Revisions
03/01/24	

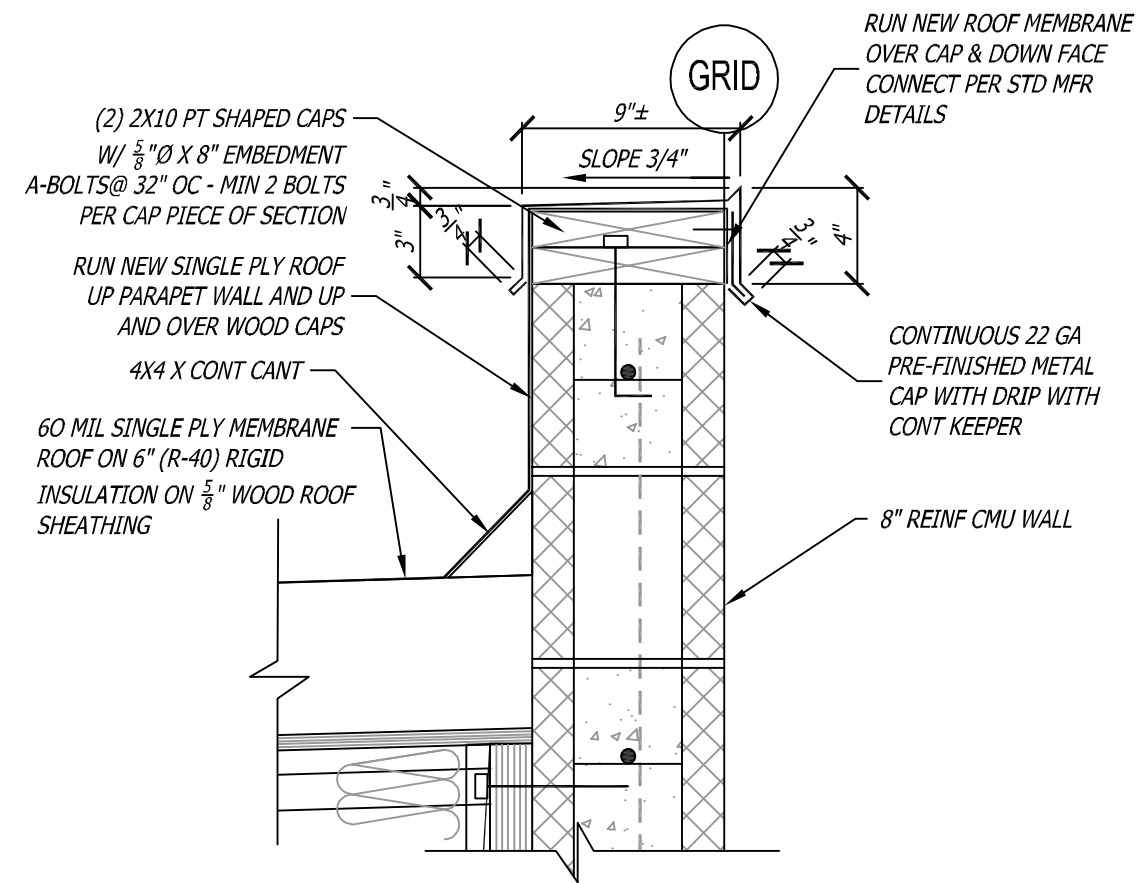
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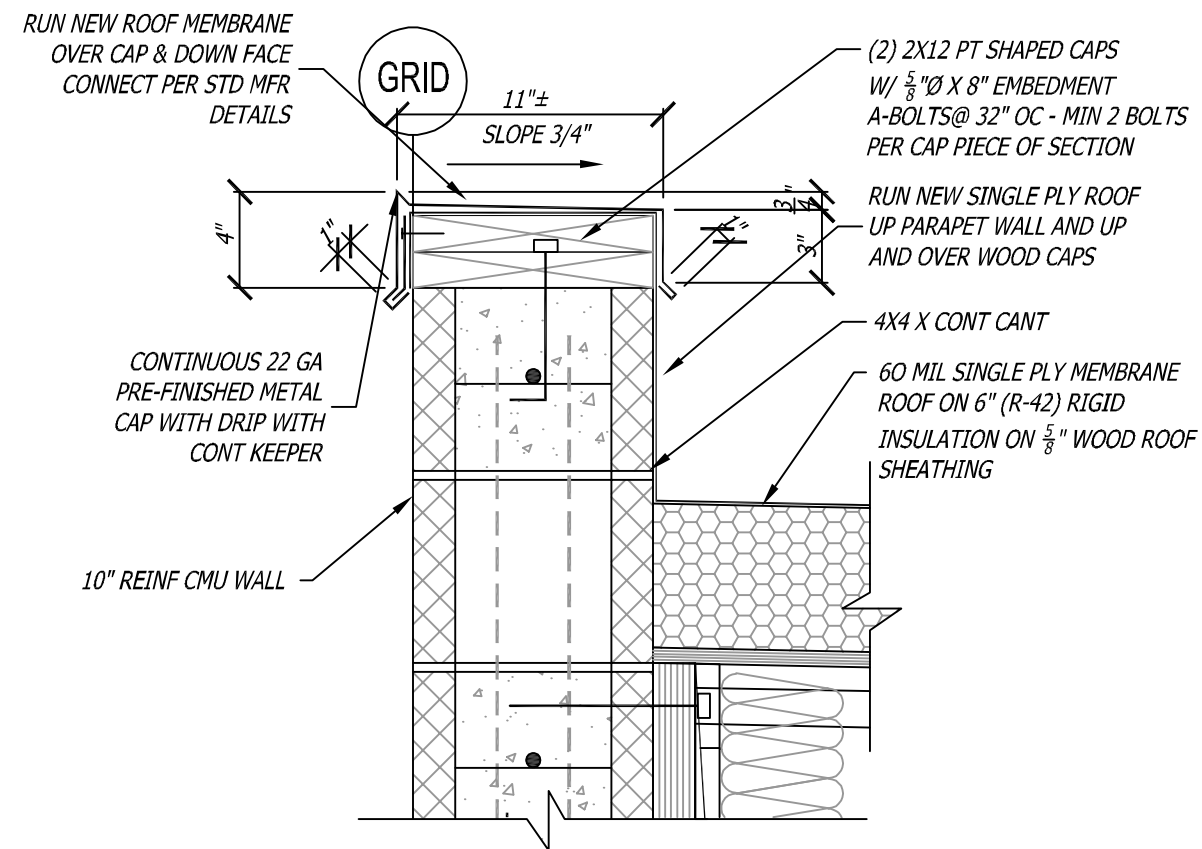
**1 LADDER & ROOF HATCH DETAIL**  
 09A401 3/4" = 1'-0" FV ALL DIMENSIONS PRIOR TO FABRICATION



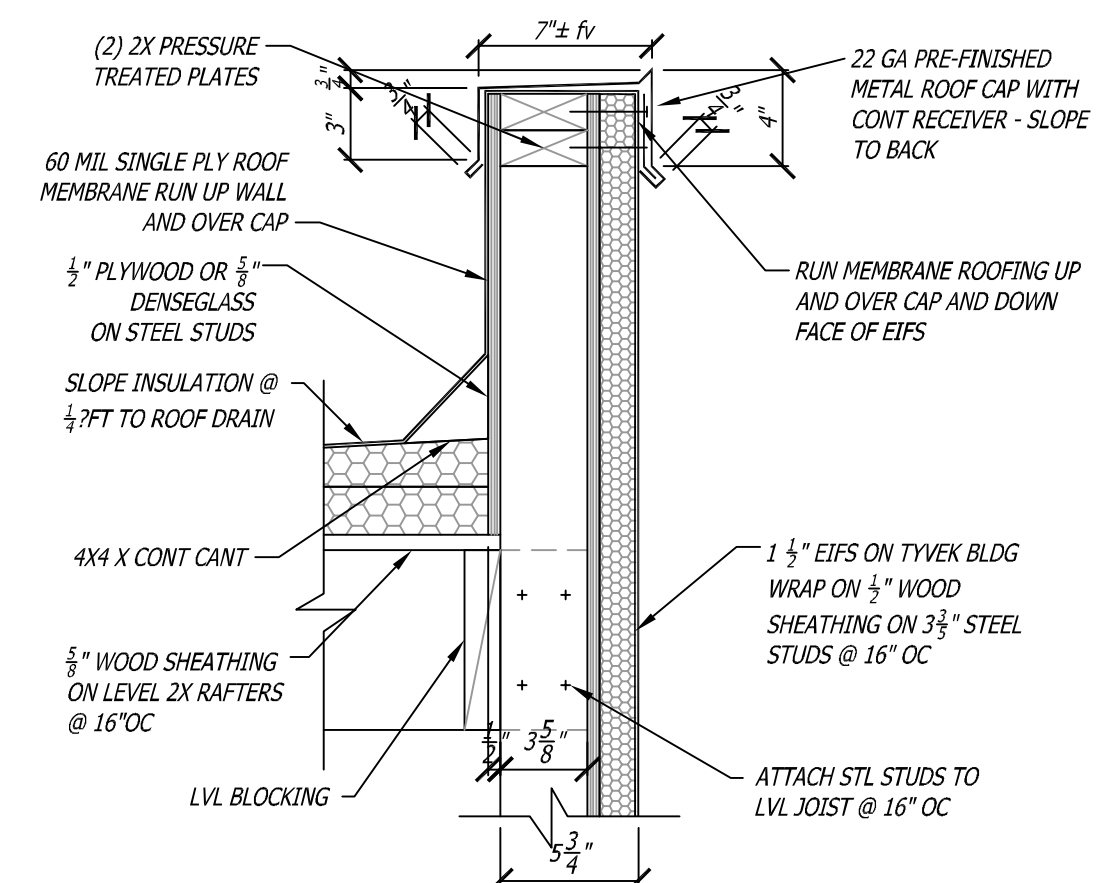
**2 ROOF LADDER ON CMU WALL**  
 09A401 3/8" = 1'-0" FV ALL DIMS PRIOR TO FABRICATION



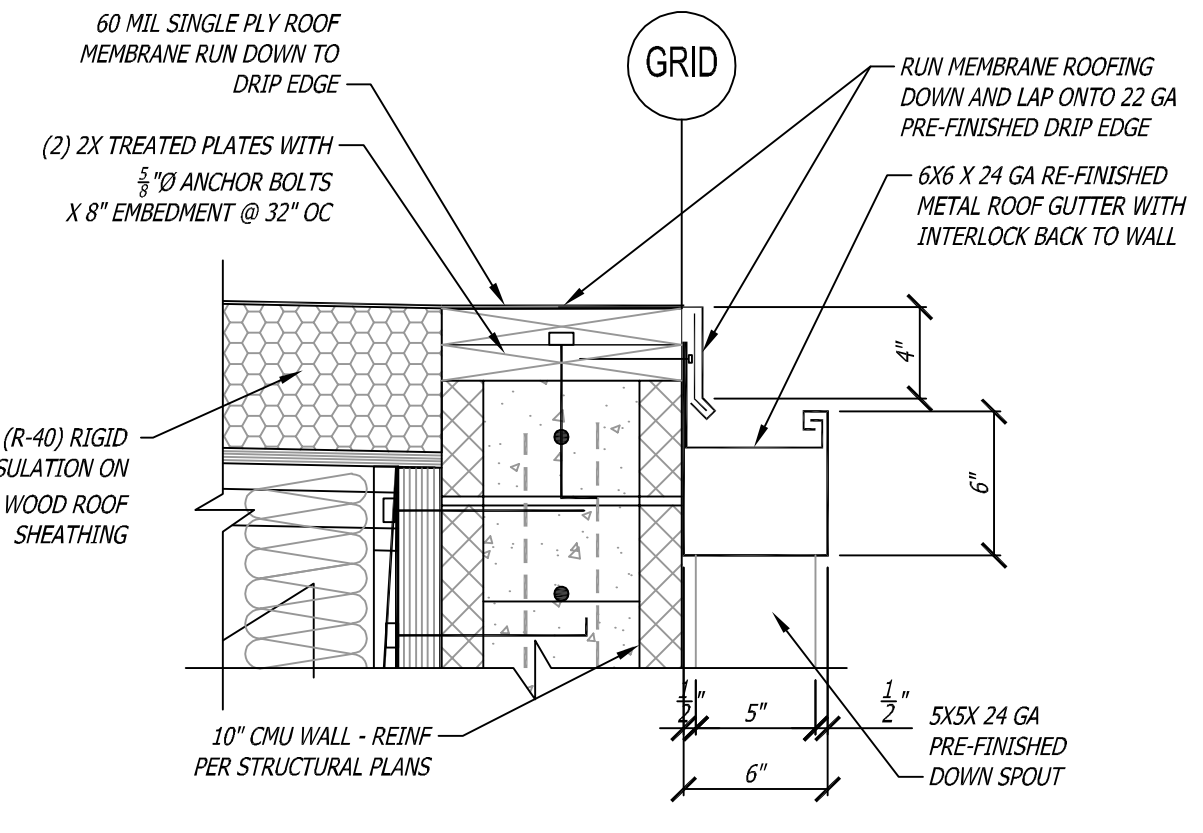
**5 TYPICAL 8\"/>
 09A401 1 1/2" = 1'-0"**



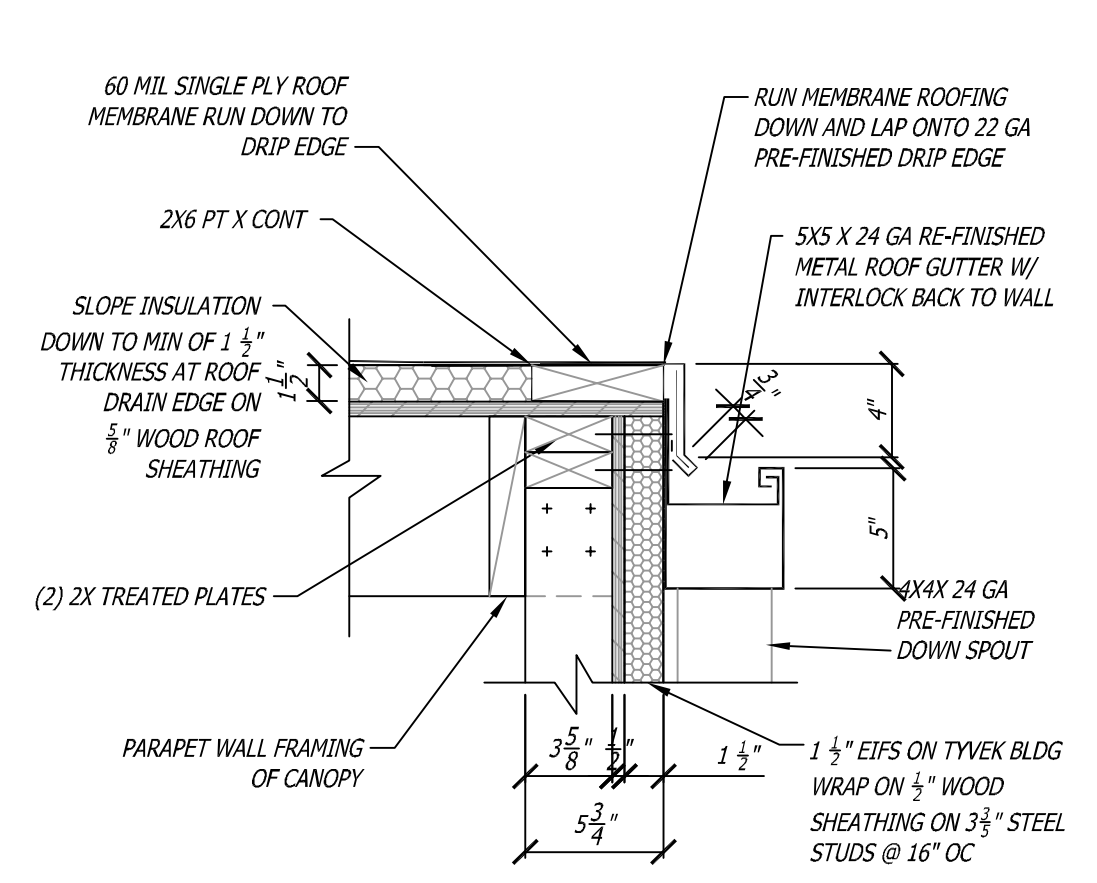
**3 HIGH 10\"/>
 09A401 1 1/2" = 1'-0"**



**6 TYPICAL ENTRY ROOF CAP**  
 09A401 1 1/2" = 1'-0"



**4 HIGH 10\"/>
 09A401 1 1/2" = 1'-0"**



**7 EMPLOYEE ROOF EDGE DRAIN**  
 09A401 1 1/2" = 1'-0"

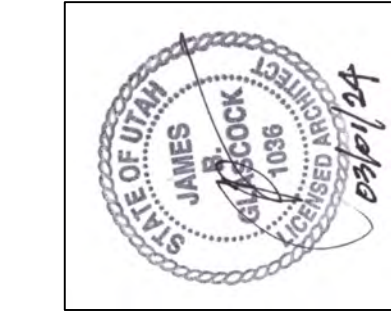
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**09A401**

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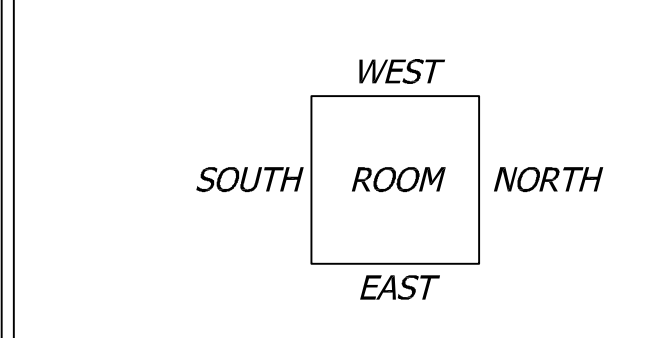
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### ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	OFFICE	FLOOR				BASE				WAINSCOT				ROOM NO.	WALLS				CEILING	HGT	ROOM NO.	PLAN LAYOUT
			EXTERIOR CONCRETE SIDEWALK RECESSED ENTRY MAT SEALED CONCRETE LVP (LUXURY VINYL PLANK/TILE) 12 X 24 THINSET TILE SET AT 1/3 OFFSET PATTERN CARPET TILE 12 X 12 STATIC FREE VCT	4" STRAIGHT RUBBER BASE 4" COVED RUBBER BASE 6" COVED RUBBER BASE- CAULK @ BASE & CONC. FLOOR COVED SCHLUTER TRIM @ BOTTOM OF WAINSCOT NONE	13X13 CERAMIC TILE TO 5'-6"± STANDARD FRP TO 4'-0" AFF AT WET WALL PAINTED PLYWOOD TO 4" AFF ON ALL GYP BOARD WALLS NONE	PAINTED 5/8" TYPE X GB ON 6 MIL VB ON STEEL STUDS @ 16" OC (EXTERIOR WALL) PAINTED 5/8" TYPE X GB ON STEEL STUDS @ 16" OC 5/8" WP DURROCK ON WET WALLS SOUND INSULATION FH X FW OF WALL EXPOSED CMU WALL TO HAVE SEALED FINISH	PAINTED 5/8" TYPE X GB ON 6 MIL VB ON STEEL STUDS @ 16" OC (EXTERIOR WALL) PAINTED 5/8" TYPE X GB ON STEEL STUDS @ 16" OC 5/8" WP DURROCK ON WET WALLS SOUND INSULATION FH X FW OF WALL EXPOSED CMU WALL TO HAVE SEALED FINISH	PAINTED 5/8" TYPE X GB ON 6 MIL VB ON STEEL STUDS @ 16" OC (EXTERIOR WALL) PAINTED 5/8" TYPE X GB ON STEEL STUDS @ 16" OC 5/8" WP DURROCK ON WET WALLS SOUND INSULATION FH X FW OF WALL EXPOSED CMU WALL TO HAVE SEALED FINISH	PAINTED 5/8" TYPE X GB ON 6 MIL VB ON STEEL STUDS @ 16" OC (EXTERIOR WALL) PAINTED 5/8" TYPE X GB ON STEEL STUDS @ 16" OC 5/8" WP DURROCK ON WET WALLS SOUND INSULATION FH X FW OF WALL EXPOSED CMU WALL TO HAVE SEALED FINISH	NON-RATED 2X2 HEAVY DUTY SUSPENDED GRID WITH ACCOUSTICAL TILES PAINTED 5/8" TYPE X GB ON STEEL STUD FRAMING @ 16" OC EXPOSED ROOF STRUCTURE - NOT PAINTED EIFS ON 1 1/2" RIGID INSULATION ON 1/2" WOOD SHEATHING	AFF	ROOM NO.	PLAN LAYOUT										
100	COVERED ENTRY (MAIN BLDG)													100						9'-4"	100		
101	COVERED ENTRY (EMPLOYEE - EAST)													101						9'-4"	101		
102	COVERED ENTRY (EMPLOYEE - WEST)													102						9'-4"	102		
103	VESTIBULE													103						10'-0"	103		
104	ENTRY FOYER													104						10'-0"	104	GYP BRD ON EAST AND SOUTH FACES OF WALLS TO EXTEND TO ROOF DECK	
105	JANITOR ROOM													105						13'-0"±	105		
106	BOARD ROOM													106						12'-0"	106	WEST WALL IS THE ACCORDION DOOR	
107	AUDIO-VISUAL CLOSET													107						9'-0"	107		
108	TRAINING ROOM													108						12'-0"	108	EAST WALL IS THE ACCORDION DOOR	
109	TABLE & CHAIR STORAGE													109						13'-0"±	109		
110	ALCOVE													110						9'-4"	110	GYP BRD ON SOUTH WALL OF ENTRY TO EXTEND TO ROOF DECK	
111	MEN'S TOILET ROOM													111						9'-0"	111	GYP BRD ON SOUTH WALL OF ENTRY TO EXTEND TO ROOF DECK	
112	WOMEN'S TOILET ROOM													112						9'-0"	112	GYP BRD ON SOUTH WALL OF ENTRY TO EXTEND TO ROOF DECK	
113	BREAK ROOM													113						10'-0"	113	GYP BRD ON NORTH AND SOUTH WALLS TO EXTEND TO ROOF DECK	
114	PANTRY													114						10'-0"	114		
115	OPEN OFFICE													115						10'-0"	115	GYP BRD ON WEST & SOUTH FACES OF WALLS TO EXTEND TO ROOF DECK	
116	WAITING AREA													116						10'-0"	116		
117	FILES													117						10'-0"	117	GYP BRD ON OUTSIDE FACE OF ALL 4 WALLS TO EXTEND TO ROOF DECK	
118	OFFICE ENTRY													118						10'-0"	118		
119	ADA UNISEX TOILET ROOM													119						9'-0"	119	GYP BRD ON OUTSIDE FACE OF ALL 4 WALLS TO EXTEND TO ROOF DECK	
120	EMPLOYEE ENTRY													120						10'-0"	120	GYP BRD ON SOUTH FACE OF WALL TO EXTEND TO ROOF DECK	
121	SERVER / ELECTRICAL ROOM													121						13'-0"±	121		
122	HALL													122						10'-0"	122		
123	COPY ROOM													123						10'-0"	123		
124	OFFICE SUPPLIES													124						10'-0"	124		
125	OFFICE													125						10'-0"	125		
126	CONFERENCE ROOM													126						10'-0"	126		
127	STORAGE ROOM													127						10'-0"	127		
128	HALL													128						10'-0"	128		
129	OFFICE													129						10'-0"	129		
130	OFFICE													130						10'-0"	130		
131	OFFICE													131						10'-0"	131		
132	HALL													132						10'-0"	132		
133	OFFICE													133						10'-0"	133		
134	OFFICE													134						10'-0"	134		



- NOTES:**
- PRIME AND PAINT ALL GYP BRD WALLS & CEILING WITH PRIMER & 2 COATS
  - ALL WALLS IN ALL ROOMS TO RUN TO ROOF STRUCTURE OR FLOOR STRUCTURE ABOVE. PROVIDE FLEXIBLE TOP CONNECTION TO ALLOW FOR 1" DEFLECTION @ ROOF.
  - ALL EXPOSED STEEL COLUMNS TO BE FILLED, SANDED SMOOTH, PRIMED AND PAINTED

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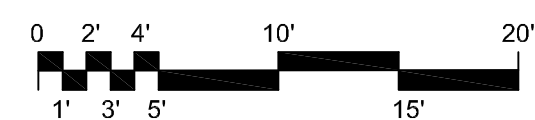
**NORTH PLANT ADMINISTRATION OFFICE BUILDING**  
 SOUTH DAVIS SEWER DISTRICT  
 1800 WEST 1200 NORTH  
 WEST BOUNTIFUL, UTAH

Project **24-001**  
 Date **03/01/24**  
 Revisions: 

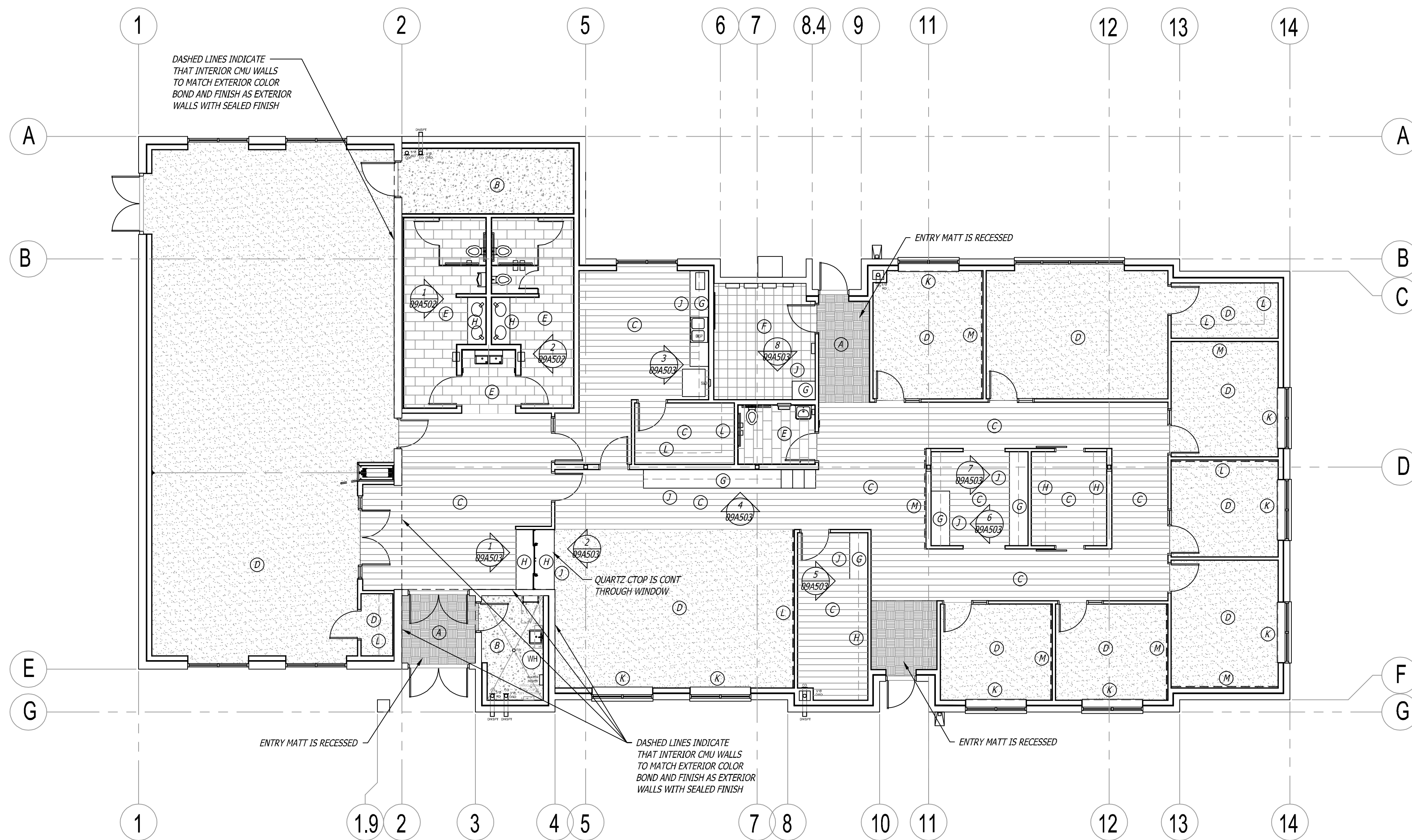

  
**09A500**

# FINISH FLOOR PLAN

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



NORTH



## FLOOR FINISH SCHEDULE:

- (A) RECESSED WATERHOG CLASSIC ENTRANCE MATS AS MANUFACTURED BY AMERICAN FLOOR MATS (OR EQUIVALENT). INCLUDING EDGE FINISH. COLOR AND PATTERN TO BE AS SELECTED BY ARCHITECT.
- (B) ASHFORD (OR EQUIVALENT) SEALED CONCRETE FLOOR.
- (C) LUXURY VINYL TILE (LVT) RESILIENT FLOORING AND ACCESSORIES AS MANUFACTURED BY MOHAWK GROUP "LIVING LOCAL COLLECTION - PREMIUM WOOD" STYLE #CD194 OR EQUIVALENT. 8" x 52" (NOMINAL) PLANKS LAID IN RANDOM PATTERN. COLOR SHALL BE AS SELECTED BY THE ARCHITECT.
- (D) 24" x 24" MULTI-LEVEL PATTERN LOOP CARPET TILES AS MANUFACTURED BY SHAW CONTRACT "CREATIVE ZONE" STYLE #5T596 OR EQUIVALENT, INCLUDING TRANSITION STRIPS AND ACCESSORIES. PATTERN TO BE QUARTER TURN AND COLOR SHALL BE AS SELECTED BY THE ARCHITECT.
- (E) POTENZA GLAZED PORCELAIN 12" x 24" AS MANUFACTURED BY EMSER TILE LAID IN 1/2 OFFSET RUNNING BOND BRICK HORIZONTAL PATTERN WITH 3/16 INCH JOINTS. GROUT COLOR TO BE MAPEI #S105 DRIFTWOOD AND TILE TO BE "IVORY". OR EQUIVALENTS OR AS SELECTED BY THE ARCHITECT.
- (F) 12" x 12" SOLID, HOMOGENEOUS ESD CONDUCTIVE STATIC CONTROL SOLID VINYL TILE AS MANUFACTURED BY ROPPE CORPORATION OR EQUIVALENT. COLOR AND PATTERN SHALL BE AS SELECTED BY THE ARCHITECT.

## MILLWORK FINISHES:

- (G) PL-1 - LAMINATE COUNTERTOPS WITH TRI-COVE EDGE AT WET AREAS & SQUARE EDGE FRONTS AND BACK SPLASHES OTHER AREAS AS MANUFACTURED BY WILSONART OR EQUIVALENT. FINAL COLOR AND PATTERN TO BE SELECTED BY THE ARCHITECT.
- (H) Q-1 - QUARTZ COUNTERTOPS - WHITEWATER QUARTZ SERIES 1 - WHITE SAND OR EQUIVALENT. EDGES TO BE CRESCENT SHAPED. FINAL COLOR AND PATTERN TO BE SELECTED BY THE ARCHITECT.
- (J) PL-2 - PLASTIC LAMINATE CABINET FACES, DOORS AND DRAWERS AS MANUFACTURED BY WILSONART OR EQUIVALENT. FINAL COLOR AND PATTERN TO BE SELECTED BY THE ARCHITECT.
- (K) Q-1 - QUARTZ WINDOW SILLS - WHITEWATER QUARTZ SERIES 1 - WHITE SAND OR EQUIVALENT. EDGES TO BE CRESCENT SHAPED. FINAL COLOR AND PATTERN TO BE SELECTED BY THE ARCHITECT.
- (L) 3/4" THICK MELAMINE FINISHED ON ALL SIDES SHELVING WITH HD ADJUSTABLE SHELF SUPPORTS.

## OTHER FINISHES:

- (M) P-3 - ACCENT PAINT IN ONE COLOR, SATIN FINISH - SHERWIN-WILLIAMS OR EQUIVALENT. FINAL COLOR AND FINISH TO BE SELECTED BY THE ARCHITECT.

## GENERAL FINISH NOTES:

1. P-1 - ALL GYP BOARD WALLS - STANDARD PAINT IN ONE COLOR, EGGSHELL FINISH - SHERWIN-WILLIAMS OR EQUIVALENT. FINAL COLOR AND FINISH TO BE SELECTED BY THE ARCHITECT.
2. P-2 - ALL GYP BOARD WALLS - STANDARD PAINT IN ONE COLOR, EGGSHELL FINISH - SHERWIN-WILLIAMS OR EQUIVALENT. FINAL COLOR AND FINISH TO BE SELECTED BY THE ARCHITECT.
3. P-4 - ALL PLYWOOD WAINSCOT WALLS - STANDARD PAINT IN ONE COLOR, SEMI-GLOSS FINISH - SHERWIN-WILLIAMS OR EQUIVALENT. FINAL COLOR AND FINISH TO BE SELECTED BY THE ARCHITECT.
4. P-5 - ALL HOLLOW METAL (HM DOORS AND FRAMES) - STANDARD PAINT IN ONE COLOR SEMI-GLOSS FINISH - SHERWIN-WILLIAMS OR EQUIVALENT. FINAL COLOR AND FINISH TO BE SELECTED BY THE ARCHITECT.
5. P-5 - ALL INTERIOR EXPOSED METAL - STANDARD PAINT IN ONE COLOR SEMI-GLOSS FINISH - SHERWIN-WILLIAMS OR EQUIVALENT. FINAL COLOR AND FINISH TO BE SELECTED BY THE ARCHITECT.
6. RUBBER BASE:
  - RB-1 ROPPE (OR EQUIVALENT) 4" COVED BASE AT LVP FLOORS AND VCT FLOORS FINAL COLOR AND FINISH TO BE SELECTED BY THE ARCHITECT.
  - RB-2 ROPPE (OR EQUIVALENT) 4" STRAIGHT BASE AT CARPET TILES. FINAL COLOR TO BE SELECTED BY THE ARCHITECT.
  - RB-3 ROPPE (OR EQUIVALENT) 6" COVED BASE AT BOTTOM OF FRP WALLS & CONCRETE FLOOR. FINAL COLOR TO BE SELECTED BY THE ARCHITECT.
7. FRP-1 - 4' X 4' X 3/32" NOMINAL MARLTITE #P-100 OR EQUIVALENT) W WHITE GLOSS FINISH. FINAL COLOR TO BE SELECTED BY THE ARCHITECT.

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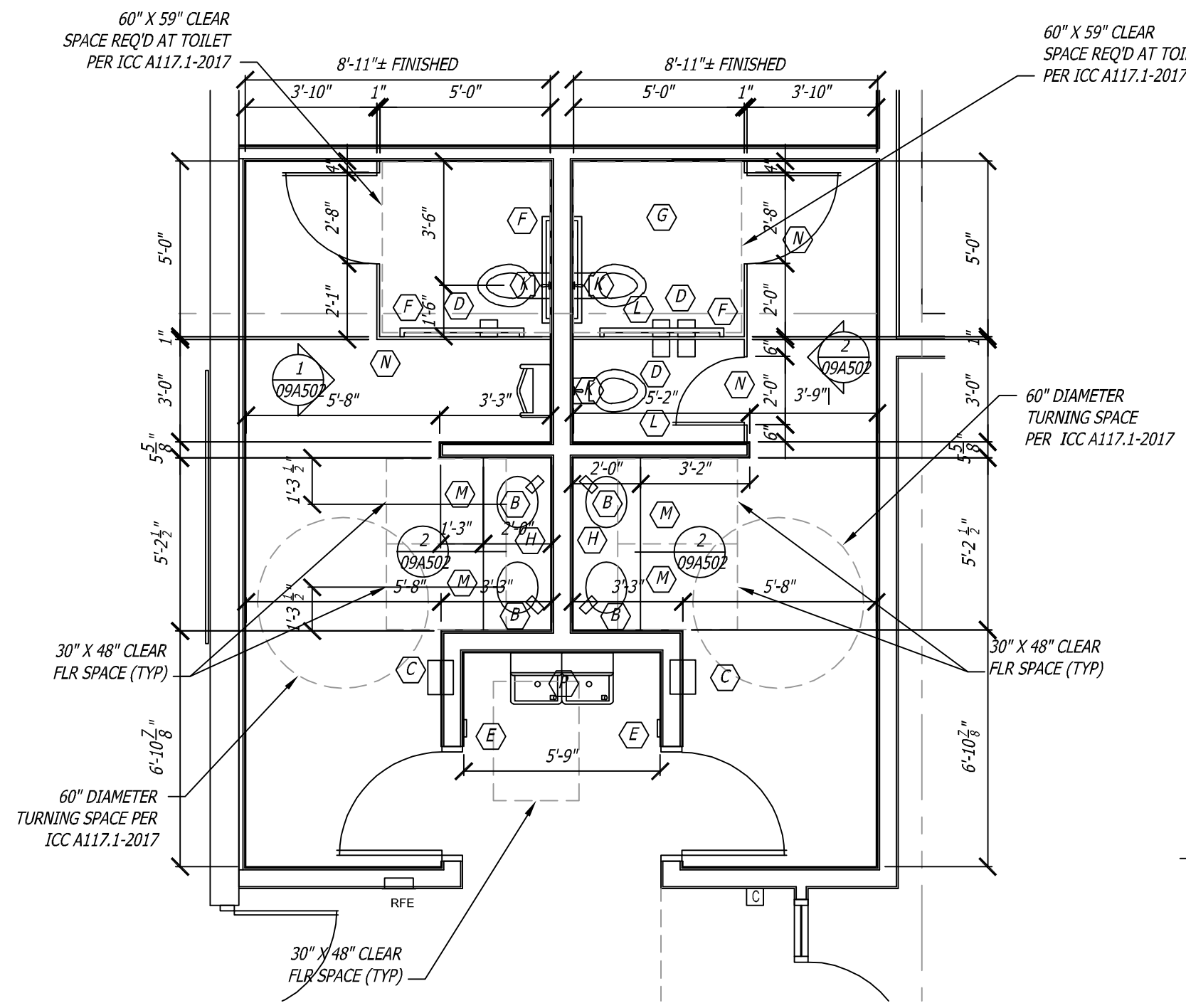


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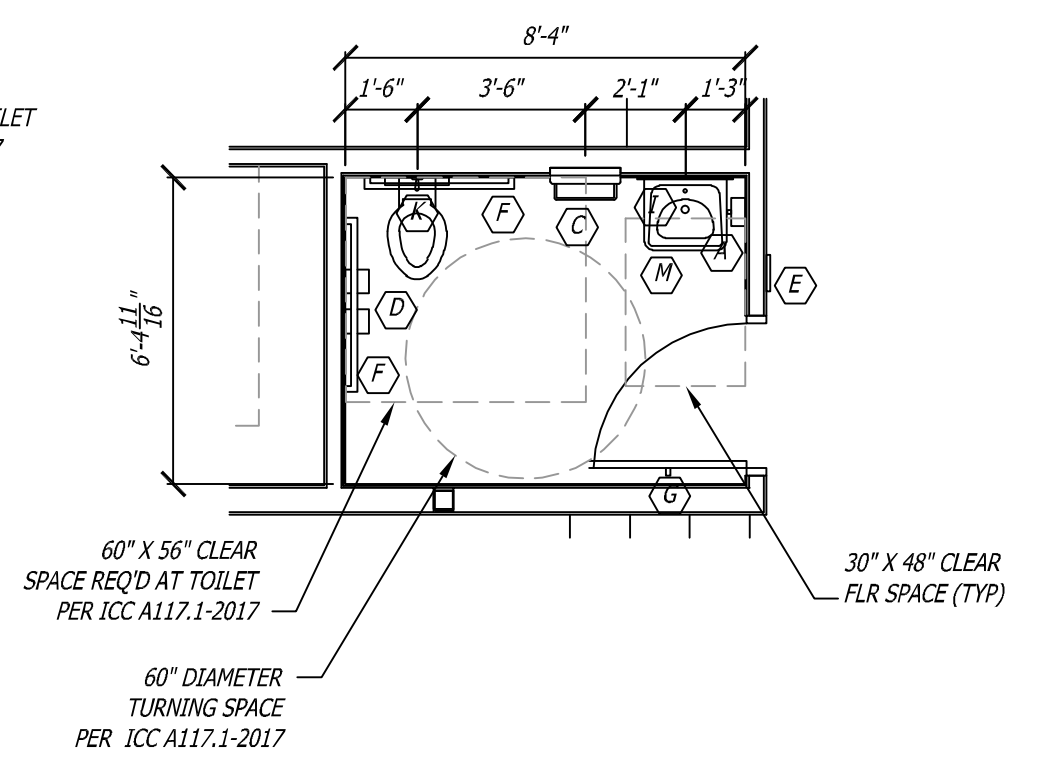
**09A501**



**MEN #111 WOMEN #112,  
ALCOVE #110**

**A**  
09A502

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



**ADA UNISEX #119**

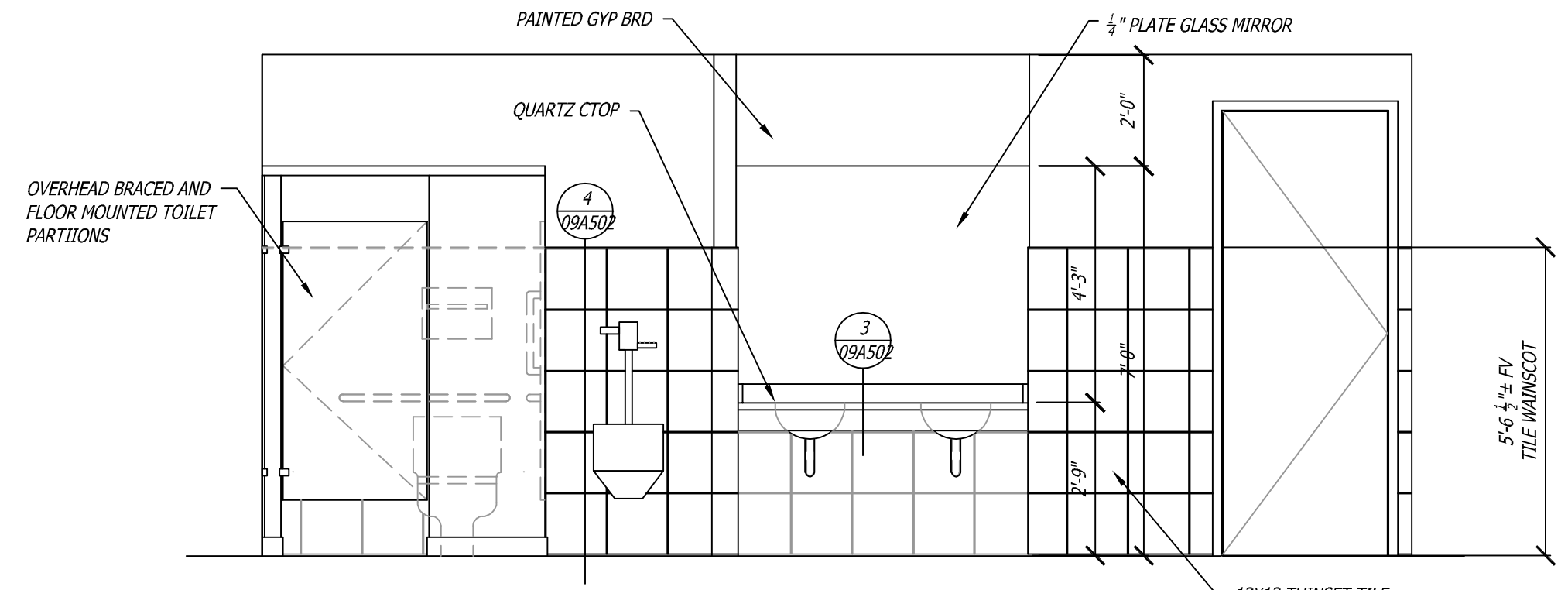
**B**  
09A502

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

**TOILET ACCESSORY SCHEDULE**

NOTE: ALL ACCESSORIES ARE SURFACE MOUNTED EXCEPT AS NOTED

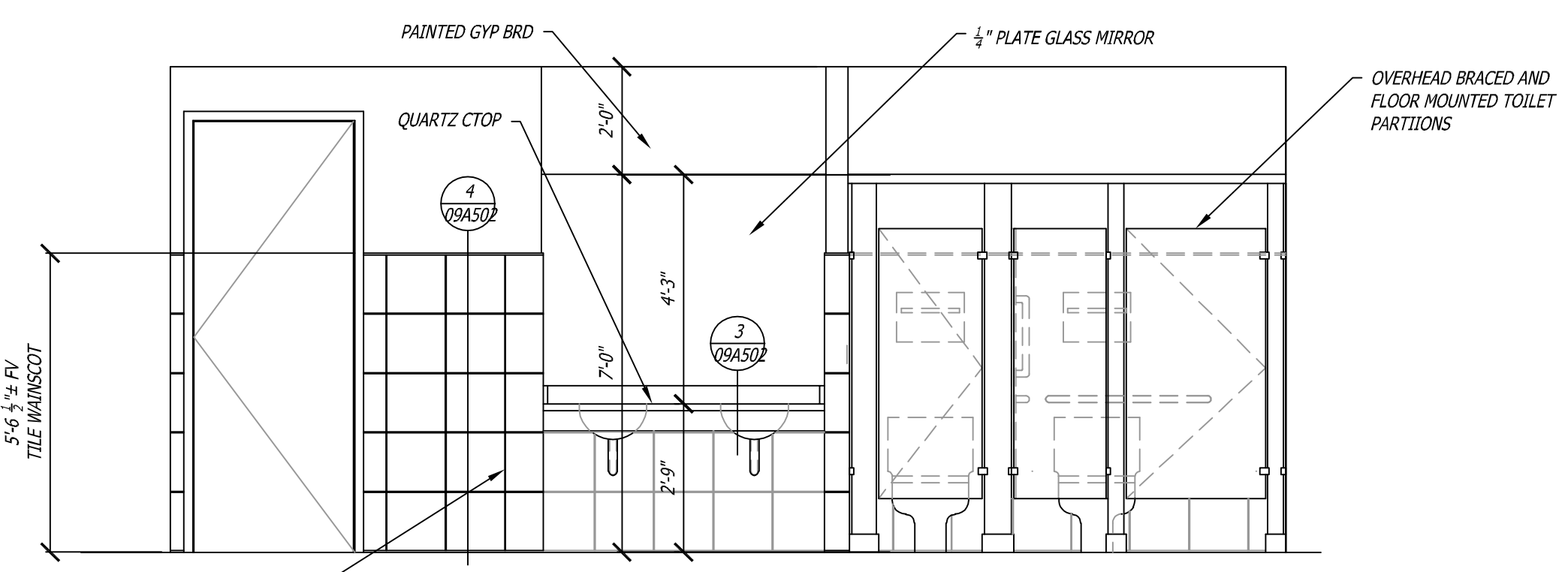
MARK	DESCRIPTION	MANUFACTURER & MODEL NUMBER
(A)	SOAP DISPENSER (WALL MOUNTED)	BOBRICK #B-4112
(B)	SOAP DISPENSER (DECK MTD)	BOBRICK #B-822
(C)	PAPER TOWEL DISPENSER & WASTE RECEPTACLE	BOBRICK #B-3942 (SEMI-RECESSED)
(D)	TOILET TISSUE DISPENSER	BOBRICK #B-69997 (DOUBLE ROLL)
(E)	SIGN	HANDICAP ACCESSIBLE SYMBOL MEN, WOMEN OR UNISEX AS APPROPRIATE
(F)	GRAB BARS	BOBRICK #B-6806 X 18" VERT, 42" & 36"
(G)	ROBE HOOK	BOBRICK #B-7617 FOR MAN DOORS
(H)	LAVATORY MIRROR	FULL WIDTH X HGT OF WALL ABV CTOP
(I)	SS FRAME MIRROR (NO SHELF)	BOBRICK #B-166 - 24 X 36
(J)	MOP HOLDER & SHELF	BOBRICK #B-224 X 36"
(K)	TOILET SEAT COVER DISPENSER	BOBRICK #B-221
(L)	SANITARY NAPKIN DISPOSAL	BOBRICK #B-254
(M)	PIPE PROTECTION	SEE PLUMBING FIXTURE SCHEDULE
(N)	TOILET PARTITION	SEE SPECS FLOOR MTD AND OVERHEAD BRACED
(P)	H/L/O EWC	SEE PLUMBING FIXTURE SCHEDULE



**1 NORTH WALL - MEN #111**

**09A502**

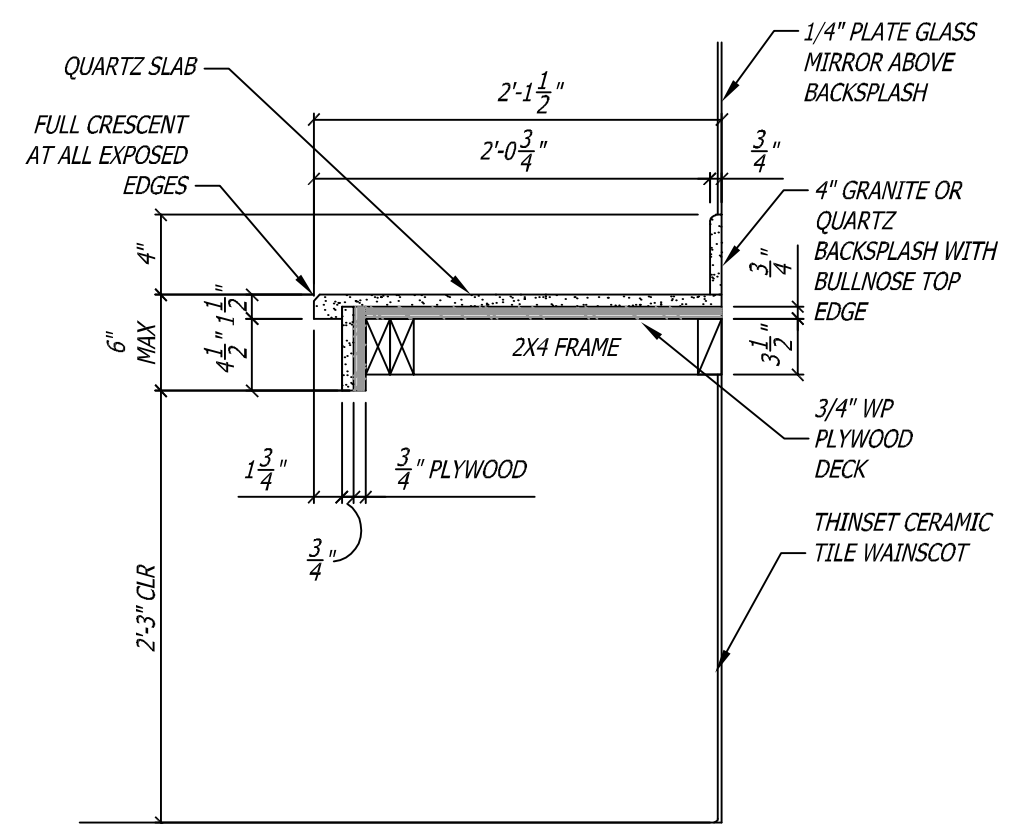
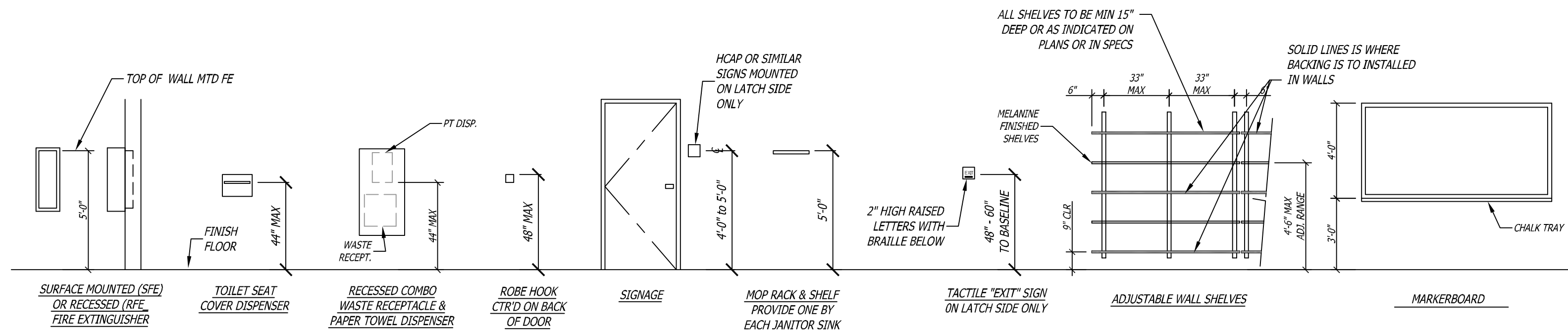
SCALE: 3/8" = 1'-0"



**2 SOUTH WALL - WOMEN #112**

**09A502**

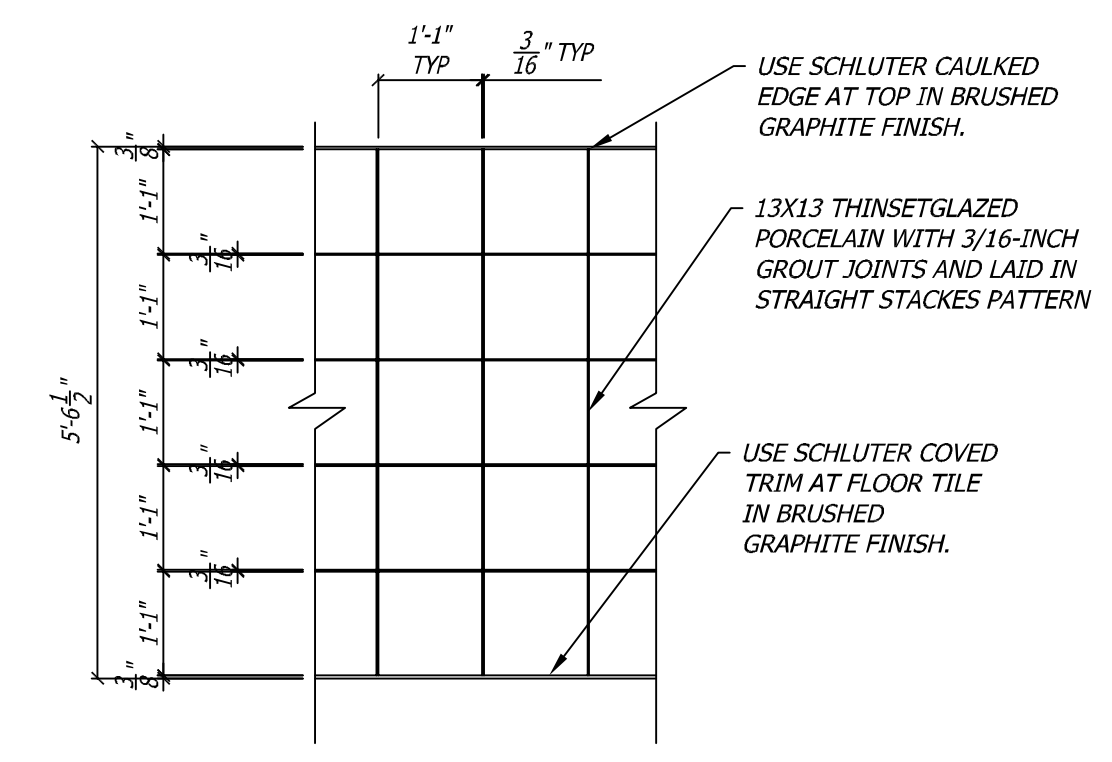
SCALE: 3/8" = 1'-0"



**3 COUNTER DETAIL**

**09A502**

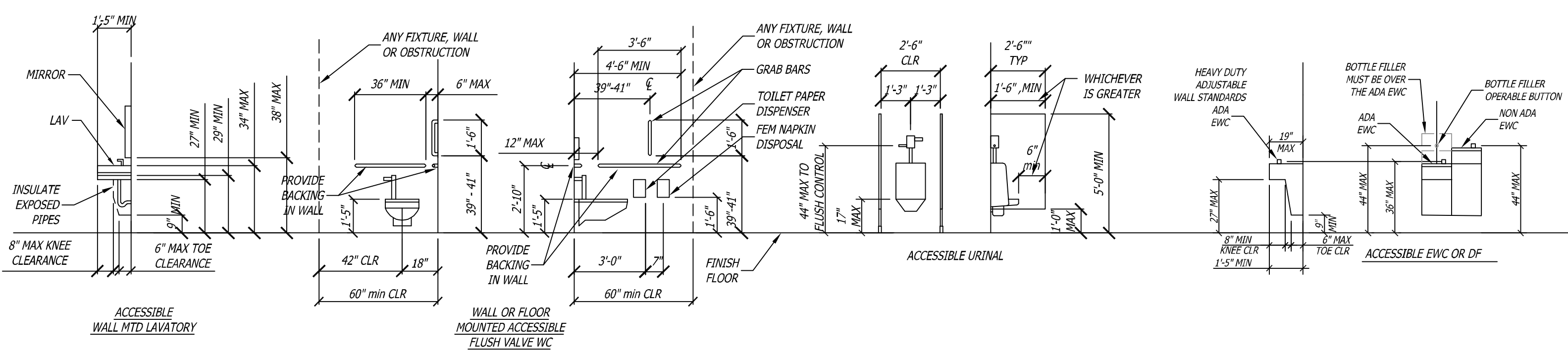
1" = 1'-0"



**4 TILE WAINSCOT DETAIL**

**09A502**

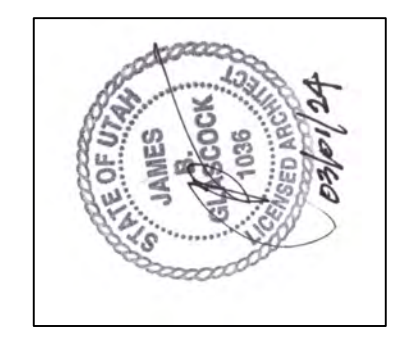
1/2" = 1'-0"



**ACCESSIBLE MOUNTING HEIGHTS**

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

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Date	Revisions
03/01/24	

**09A502**

Date

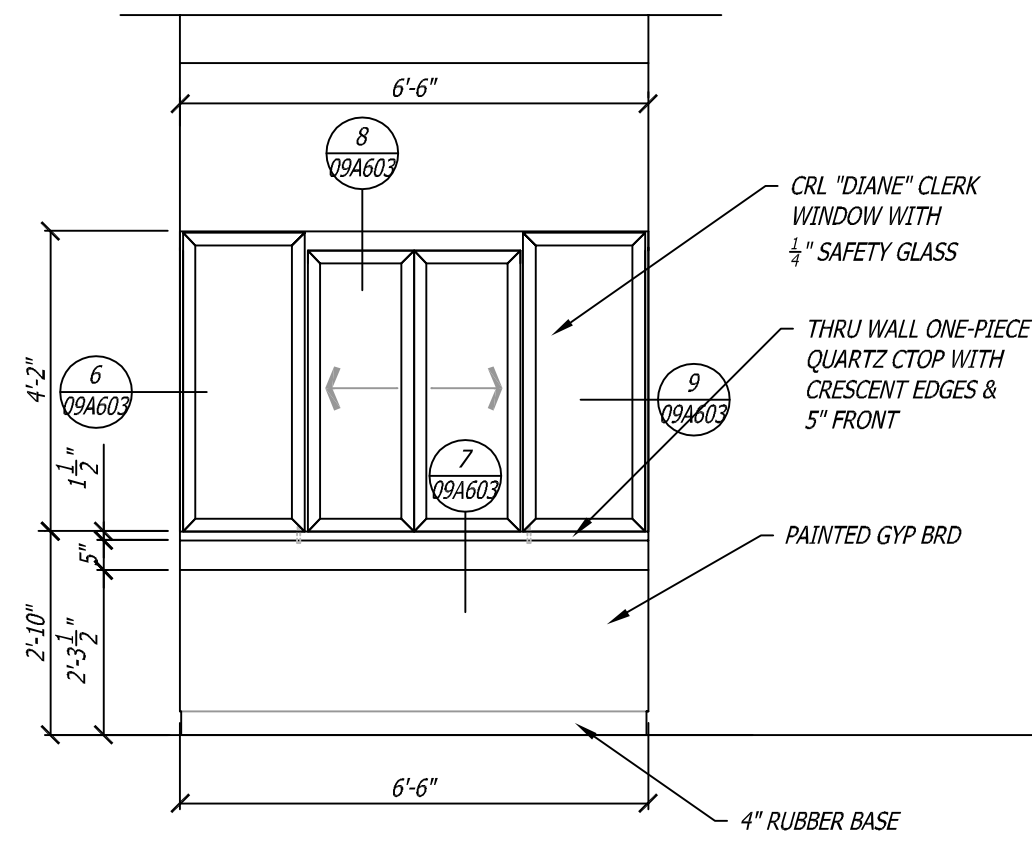
Revisions

**09A502**

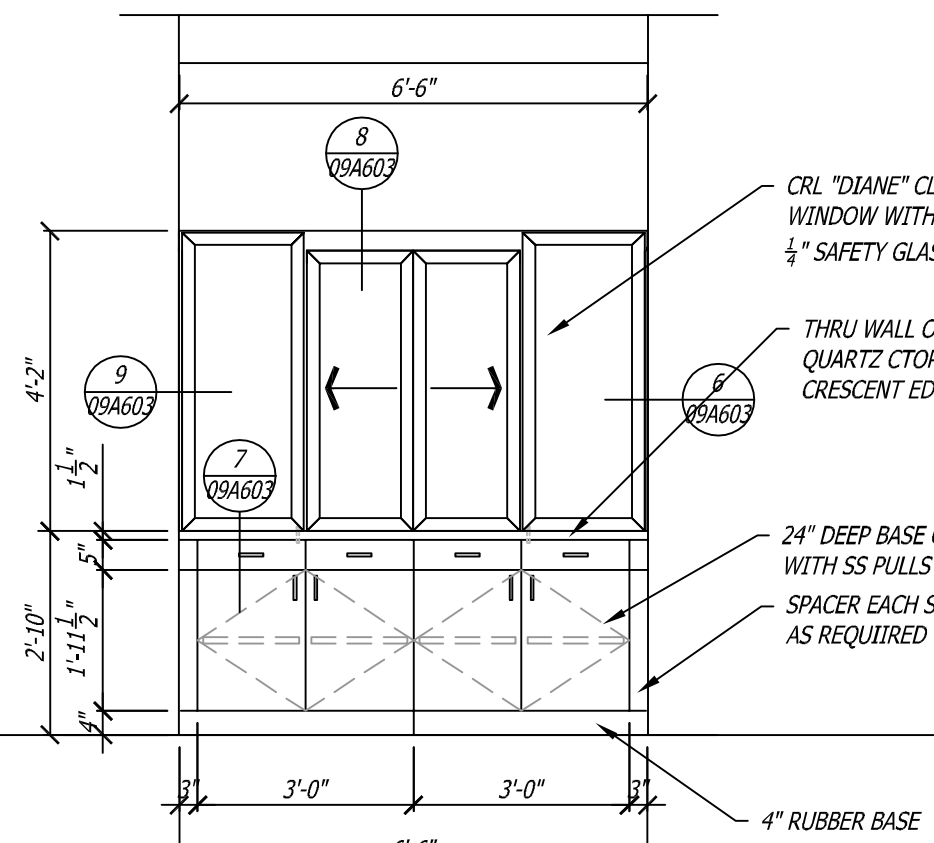
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## GENERAL MILLWORK NOTES

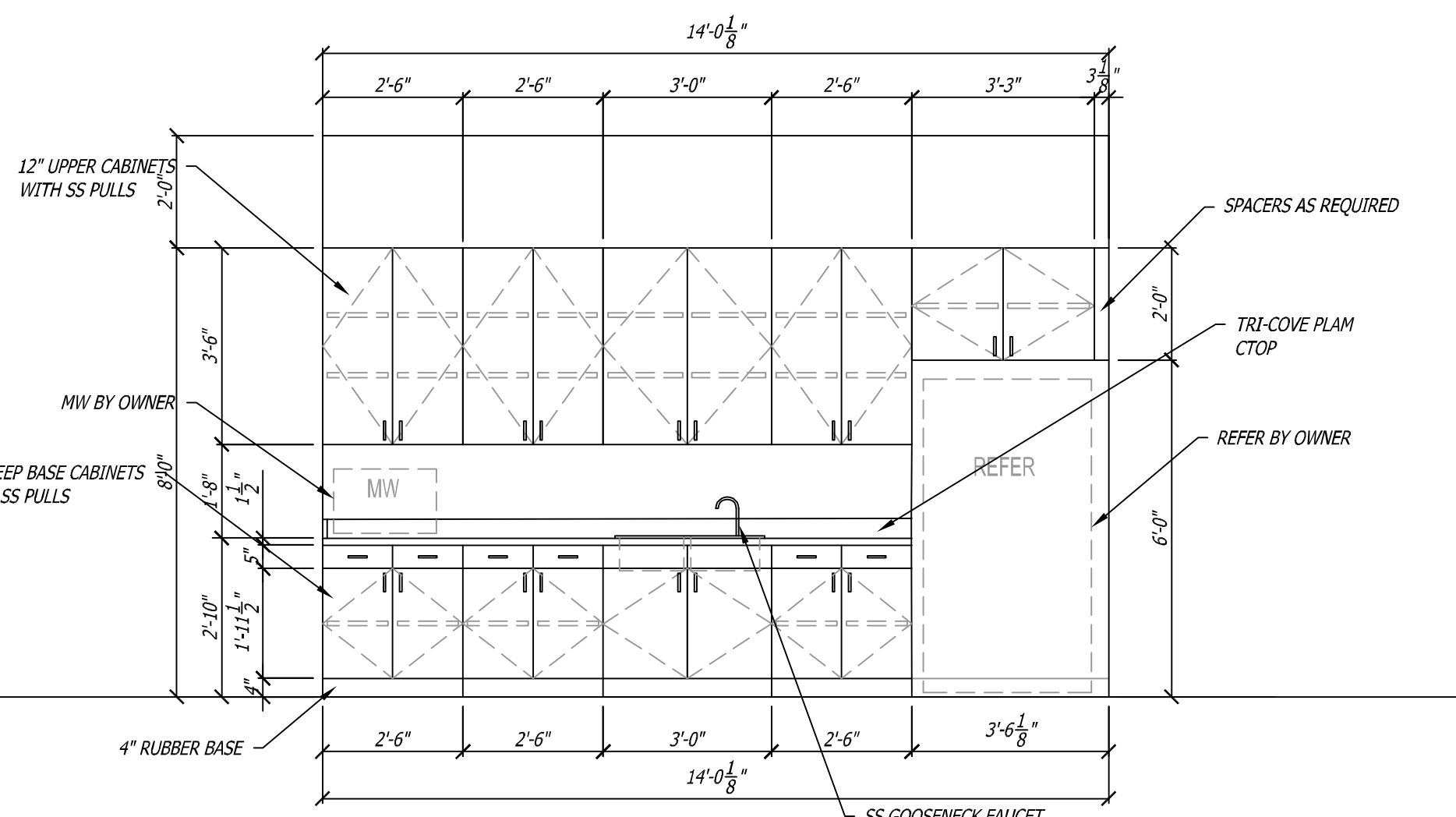
- CABINET SIZES ARE SHOWN AS APPROXIMATE SIZES. ALL CABINETS MUST BE FIELD MEASURED AND FIELD VERIFIED PRIOR TO FABRICATION. BRING ANY DISCREPANCIES TO ARCHITECT'S ATTENTION PRIOR TO PREPARATION OF SHOP DRAWINGS. ALL MILLWORK SHALL COMPLY WITH ICC A117.1-2017 REQUIREMENTS.
- BASE CABINET HEIGHTS TO ALLOW FOR A 1 1/2" THICK COUNTERTOP THICKNESS. COUNTERTOPS ARE TO BE QUARTZ OVER 3/4" THICK WOOD SUBSTRATE. PROVIDE A 4" BACK SPLASH WHERE SHOWN OR IN ALL WET AREAS WHERE THERE ARE SINKS. PROVIDE A 1 1/2" CRESCENT SHAPED EDGE AS SHOWN ON PLANS.
- ALL UPPER AND LOWER BASE CABINET DEPTHS NOTED ARE MEASURED FROM THE FINISHED BACK OF CABINET TO THE FRONT FACE OF DOOR OR DRAWER FRONT U.N.O.
- ALL CABINET INTERIORS ARE FINISHED WITH WHITE STANDARD MELAMINE LAMINATE. MILLWORK DIMENSIONS ARE WIDTH X HEIGHT U.N.O.
- PROVIDE RECESSED BASE AT TOE KICKS OF ALL CABINETS. FINISH WITH 4" RUBBER BASE.
- ALL COUNTERTOPS HAVE A SIDE SPLASH AT ALL WALLS TO MATCH THE COUNTERTOP FINISH. COLOR TO MATCH WALL PAINT COLOR.
- ALL MILLWORK IS TO BE FINISHED AT ALL SIDES AND ENDS TYPICAL. PROVIDE MATCHING CABINET MATERIAL FILLER PIECES AS REQUIRED TO CLOSE OFF GAPS AT SIDES AND TOPS WHETHER SHOWN OR NOT. CAULK ALL EDGES OF CABINETS AND COUNTERTOPS AT WALLS.
- GENERAL CONTRACTOR IS TO COORDINATE WITH MILLWORK SUBCONTRACTOR TO PROVIDE BLOCKING BEHIND ALL CABINETS, SHELF SUPPORTS, WALL HOOKS, TV BRACKETS, AND OWNER SUPPLIED WALL MOUNTED EQUIPMENT. ONLY 2X MATERIAL IS ACCEPTABLE AS BLOCKING BEHIND MILLWORK. SPECIALTY ITEMS.
- SEE SPECIFICATIONS FOR SELECTIONS FOR BRANDS, COLORS AND TYPES OF COUNTERTOPS AND OTHER FINISHES. PROVIDE SAMPLES FOR OWNER TO APPROVE.
- ALL BASE CABINETS TO BE MANUFACTURED TO ACCEPT LOCKS EITHER NOW OR IN THE FUTURE. PROVIDE 10% LOCKS ON ALL DOORS AND DRAWERS IN BASE BID. FINAL NUMBER TO BE DETERMINED IN FIELD WITH FUTURE TENANT.



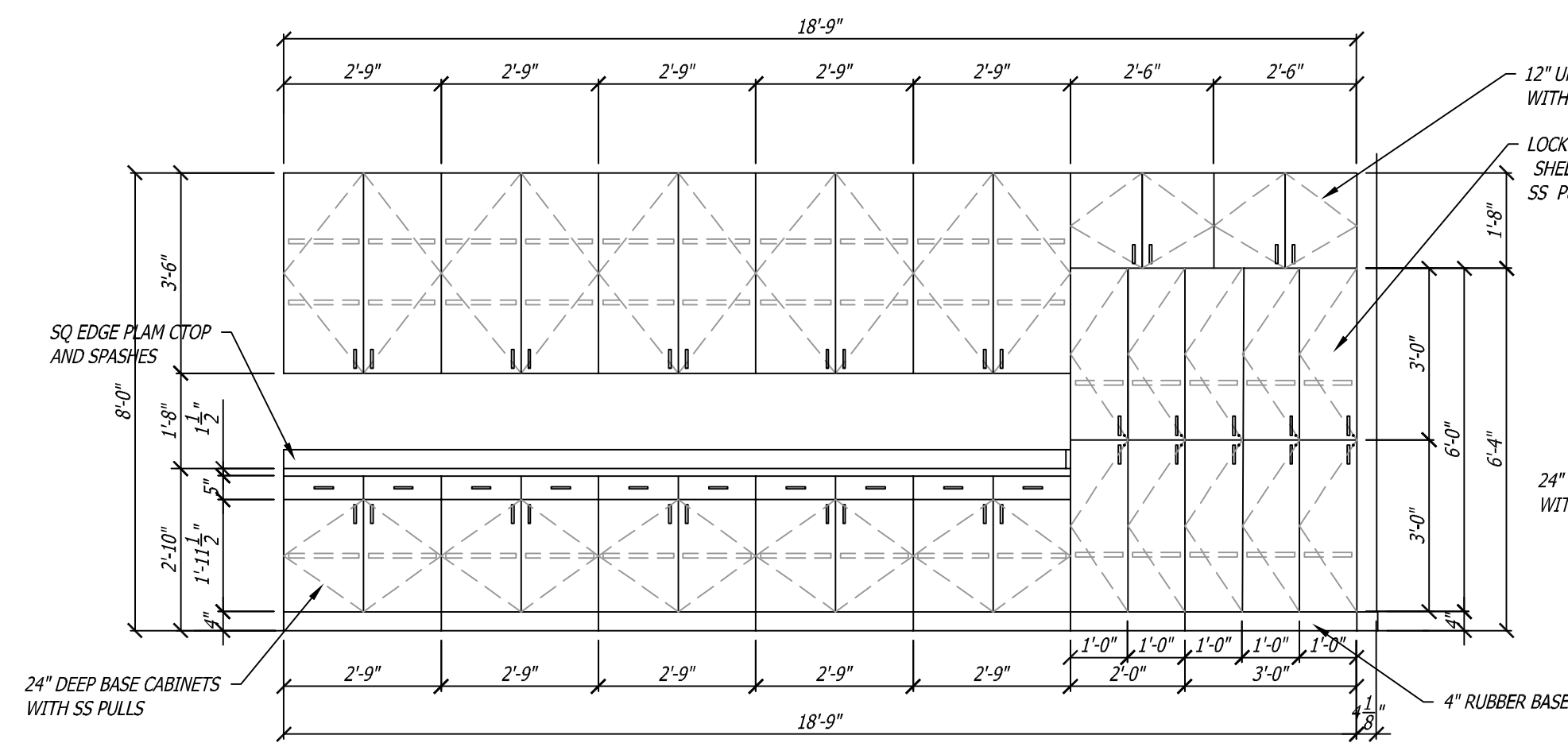
**1** NORTH WALL - FOYER 104 - PAYMENT WINDOW  
09A503 SCALE: 3/8" = 1'-0"



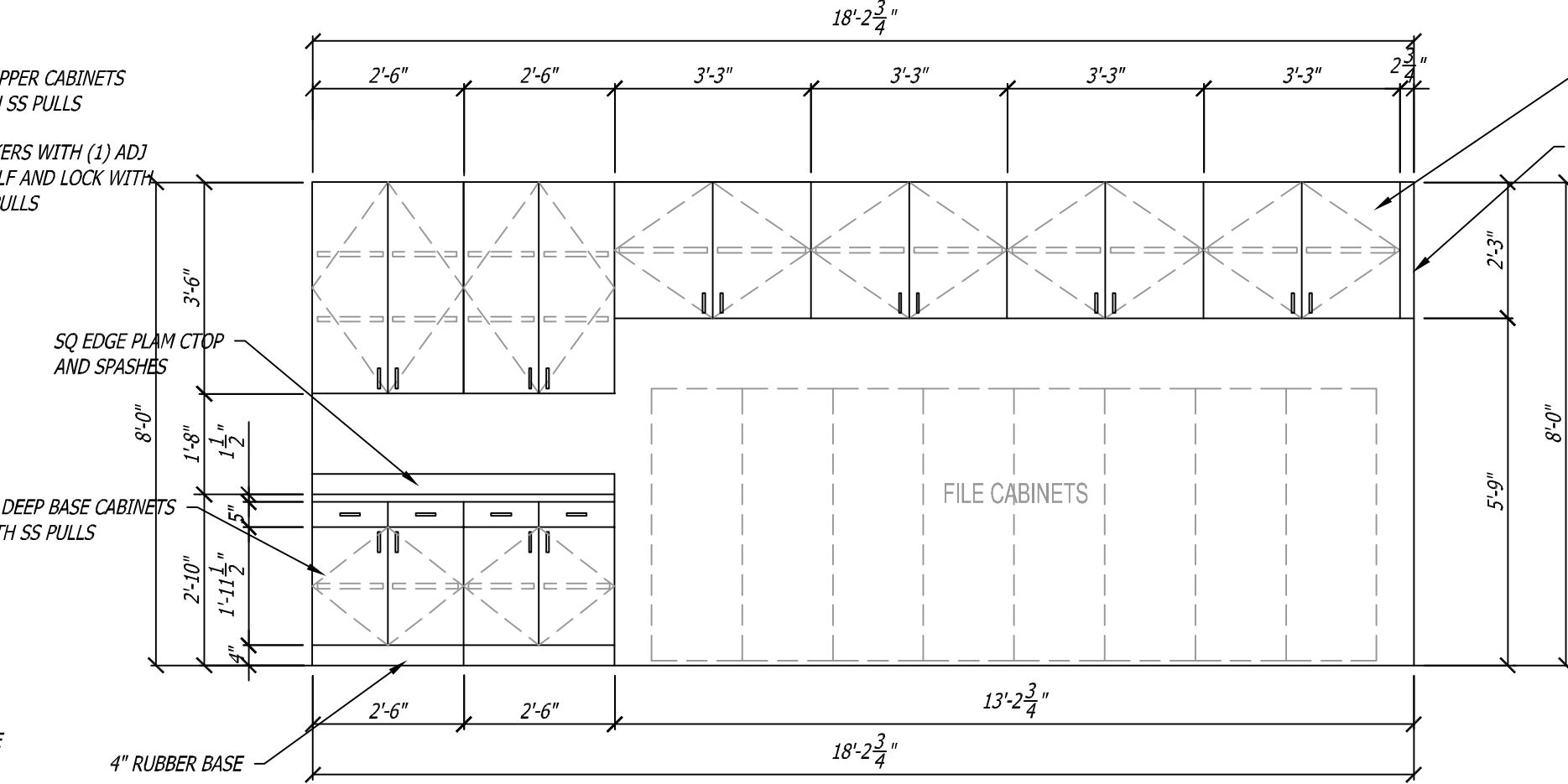
**2** SOUTH WALL - OFFICE 115 - PAYMENT WINDOW  
09A503 SCALE: 3/8" = 1'-0"



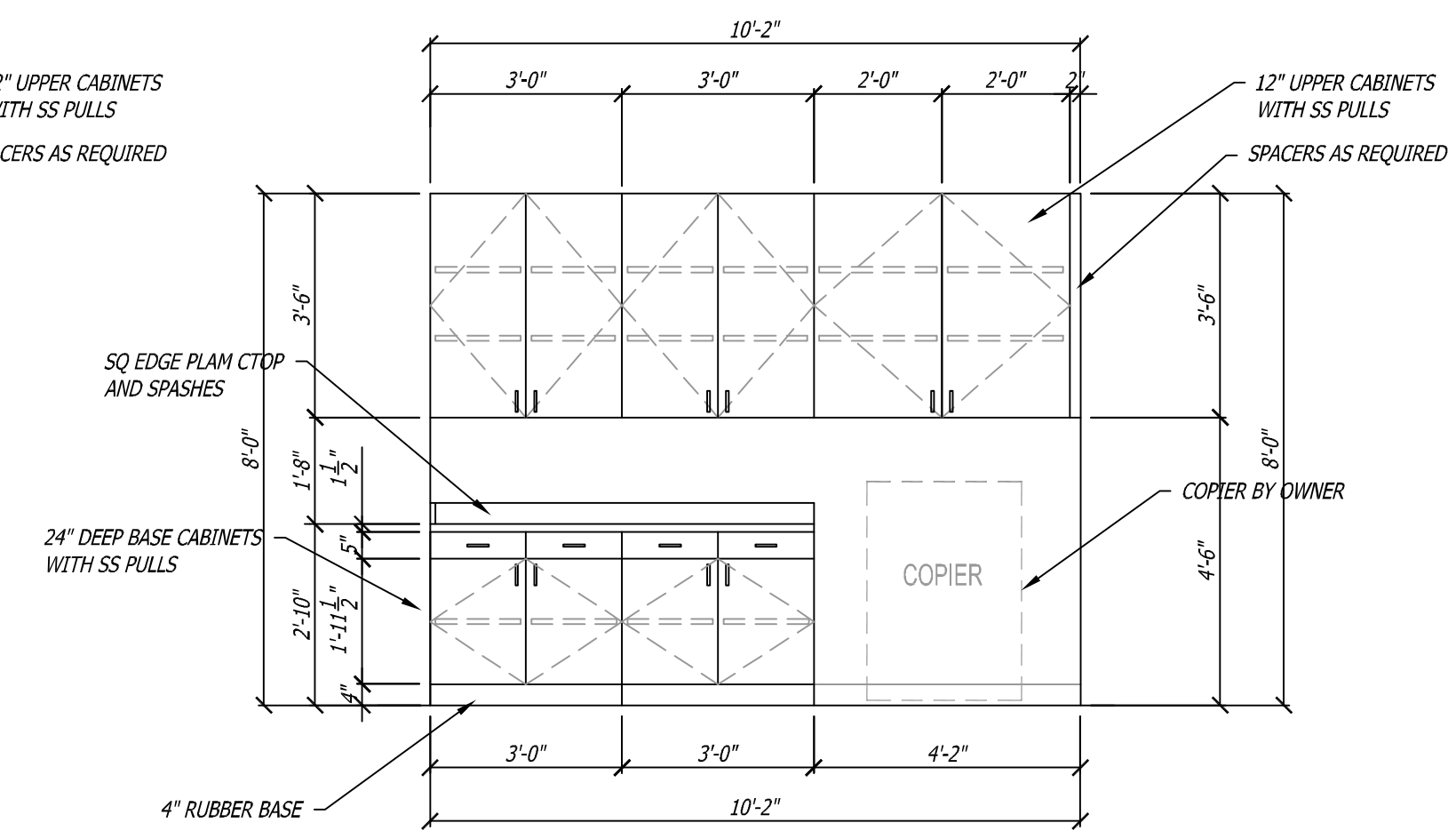
**3** SOUTH WALL - BREAK ROOM 113  
09A503 SCALE: 3/8" = 1'-0"



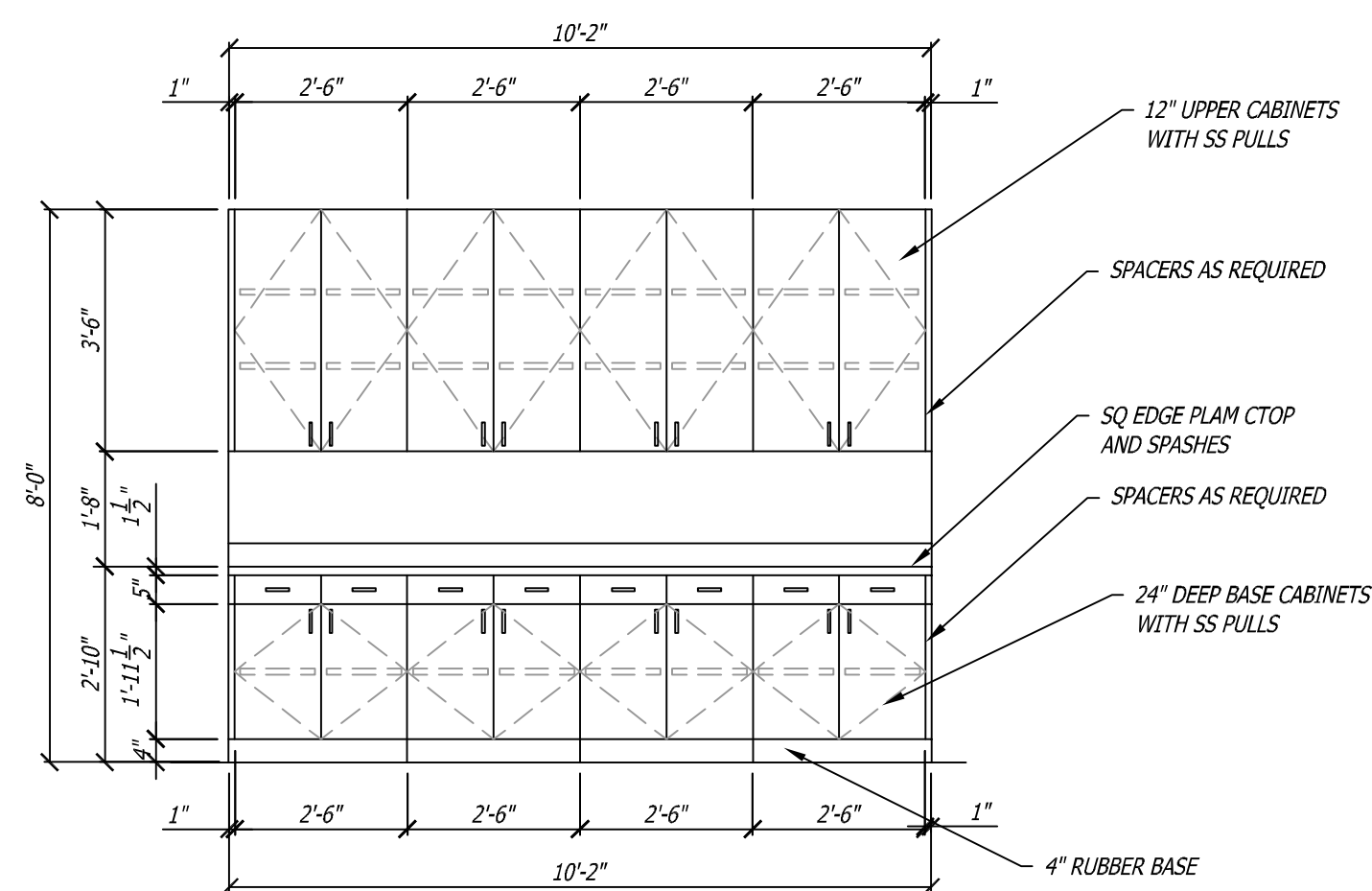
**4** WEST WALL - OPEN OFFICE 115 - COLLATING WORKSPACE  
09A503 SCALE: 3/8" = 1'-0"



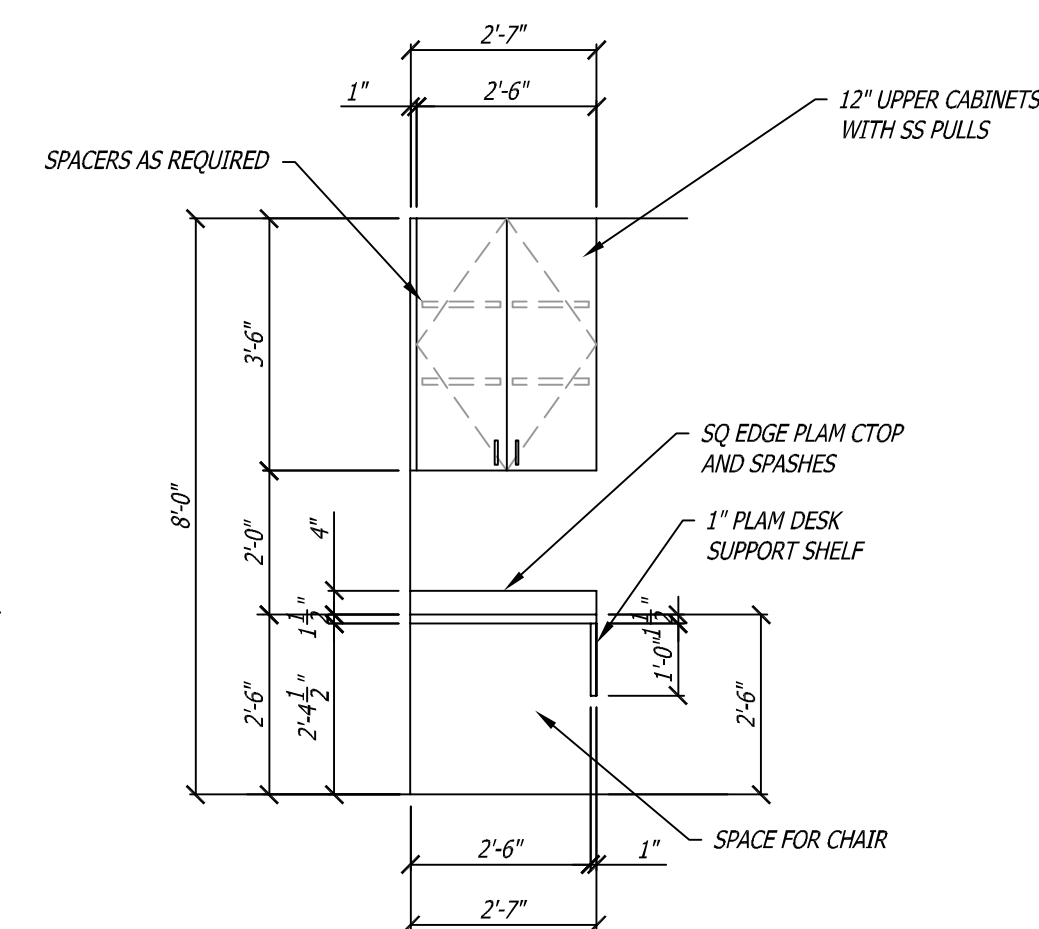
**5** NORTH WALL - FILES 117  
09A503 SCALE: 3/8" = 1'-0"



**6** SOUTH WALL - COPY 125  
09A503 SCALE: 3/8" = 1'-0"



**7** NORTH WALL - COPY 125  
09A503 SCALE: 3/8" = 1'-0"

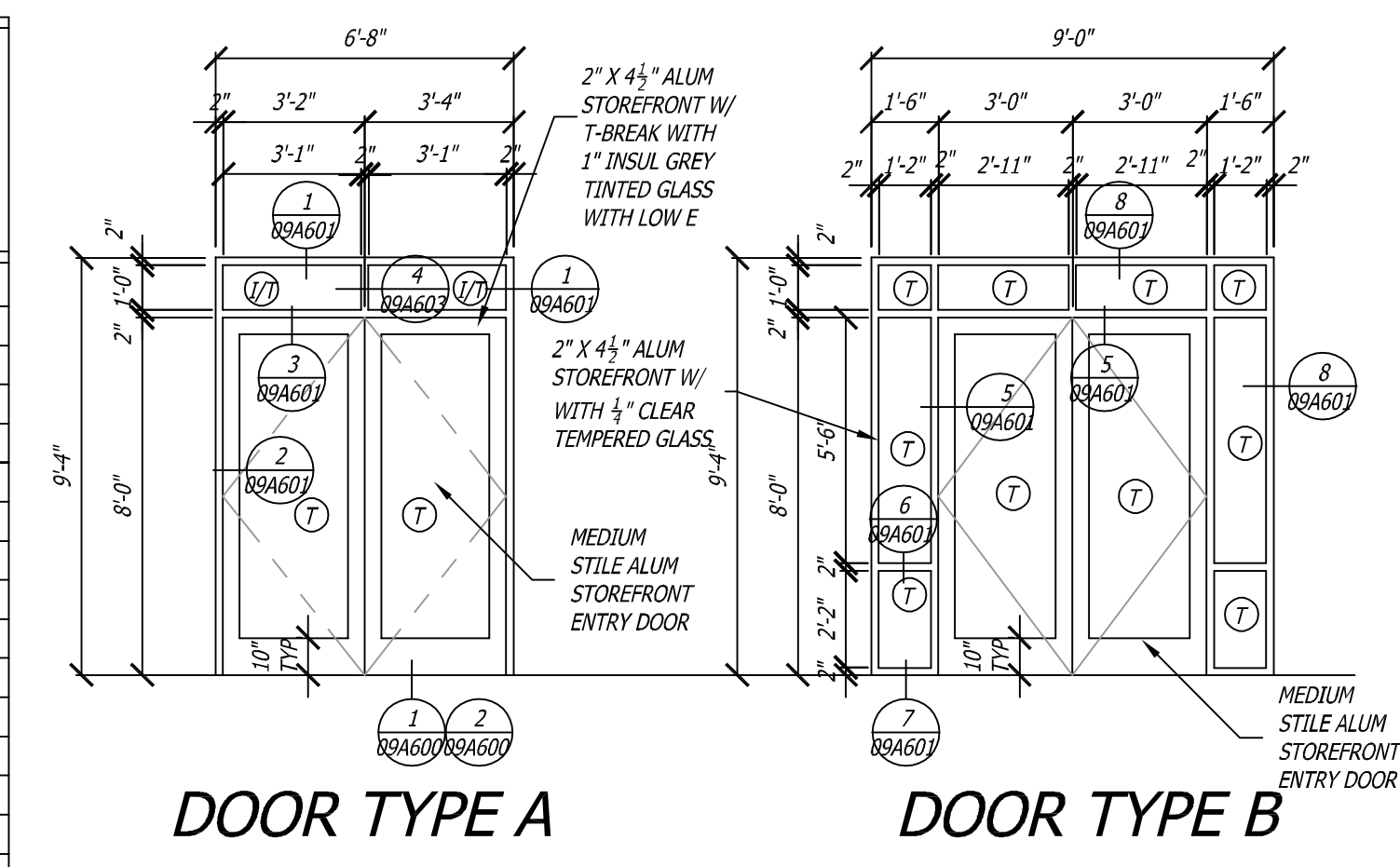


**8** WEST WALL - SERVER ROOM 121  
09A503 SCALE: 3/8" = 1'-0"

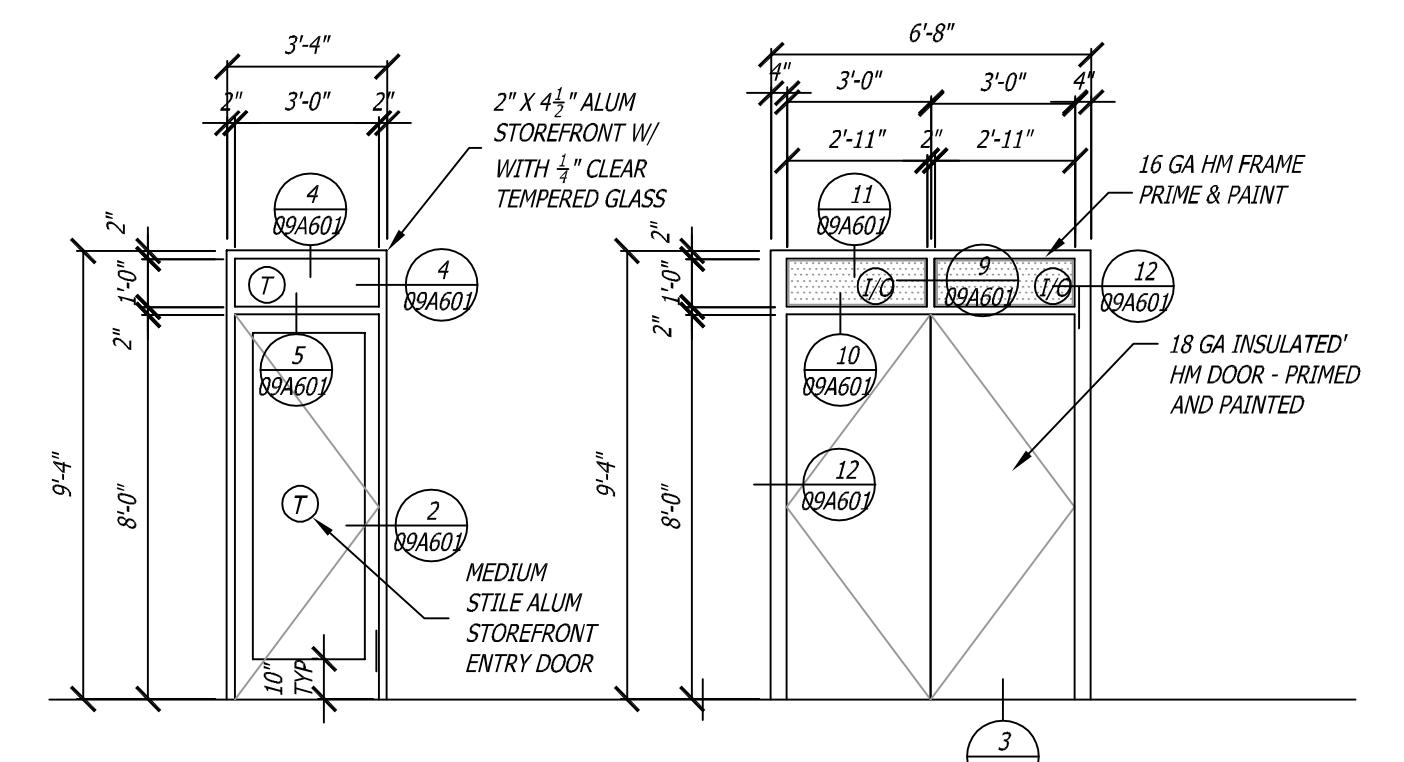


DOOR SCHEDULE											REMARKS
DOOR #	DIMENSIONS			DOOR TYPE	DETAILS			HDWE GROUP	FIRE RATING	DOOR #	
	WIDTH	HEIGHT	THICKNESS		HEAD	JAMB	SILL				
1	6'-4"	8'-0"	1 3/4"	A	3/09A601	2/09A601	1/09A600	H-1	NR	1	PAIR ALUMINUM STOREFRONT DOORS WITH CLEAR TEMPERED GLASS AND TEMPERED/INSULATED GLASS TRANSOM ABOVE. FRAME WITH THERMAL-BREAK
2	6'-4"	8'-0"	1 3/4"	A	3/09A601	2/09A601	2/09A600	H-2	NR	2	PAIR ALUMINUM STOREFRONT DOORS AND FRAME WITH CLEAR TEMPERED GLASS WITH TEMPERED GLASS TRANSOM ABOVE
3	6'-0"	8'-0"	1 3/4"	B	5/09A601	5/09A601	TS-5	H-1	NR	3	PAIR ALUMINUM STOREFRONT DOORS AND FRAME WITH SIDELITES AND TRANSOM ABOVE WITH CLEAR TEMPERED GLASS
4	3'-0"	8'-0"	1 3/4"	C	5/09A601	2/09A601	TS-5	H-3	NR	4	ALUMINUM STOREFRONT DOOR AND FRAME WITH CLEAR TEMPERED GLASS WITH TEMPERED GLASS TRANSOM ABOVE
5	6'-0"	8'-0"	1 3/4"	D	10/09A601	12/09A601	3/09A600	H-4	NR	5	PAIR INSULATED HM DOOR AND FRAME - PRIMED AND PAINTED WITH TEMPERED/INSULATED GLASS TRANSOM ABOVE
6	3'-0"	8'-0"	1 3/4"	E	10/09A601	13/09A601	4/09A600	H-5	NR	6	INSULATED HM DOOR AND FRAME - PRIMED AND PAINTED WITH TEMPERED GLASS TRANSOM ABOVE
7	3'-0"	8'-0"	1 3/4"	E	10/09A601	13/09A601	4/09A600	H-5	NR	7	INSULATED HM DOOR AND FRAME - PRIMED AND PAINTED WITH TEMPERED GLASS TRANSOM ABOVE
8	22'-0"	12'-0"	1 3/4"	F	3/09A304	8&9/09A602	NONE	MFR	NR	8	MANUAL ACCORDION DOOR - STC = 30
9	3'-0"	8'-0"	1 3/4"	G	1/09A601	1/09A601	NONE	H-8	NR	9	STAINED SC WOOD DOOR IN HM FRAME
10	3'-8"	7'-0"	1 3/4"	H	15/09A601	14/09A601	TS-6	H-6	NR	10	STAINED SC WOOD DOOR IN HM FRAME
11	3'-0"	7'-0"	1 3/4"	J	15/09A601	14/09A601	5/09A600	H-7	NR	11	HM DOOR AND FRAME - PRIMED AND PAINTED
12	3'-0"	8'-0"	1 3/4"	G	1/09A601	1/09A601	NONE	H-9	NR	12	STAINED SC WOOD DOOR IN HM FRAME
13	3'-0"	8'-0"	1 3/4"	K	1/09A601	1&2/09A602	NONE	H-9	NR	13	STAINED SC WOOD DOOR IN HM FRAME WITH SINGLE SIDELITE WITH TEMPERED GLASS
14	3'-0"	8'-0"	1 3/4"	G	1/09A601	1/09A601	TS-1	H-10	NR	14	STAINED SC WOOD DOOR IN HM FRAME
15	3'-0"	8'-0"	1 3/4"	G	1/09A601	1/09A601	TS-1	H-10	NR	15	STAINED SC WOOD DOOR IN HM FRAME
16	3'-0"	8'-0"	1 3/4"	G	1/09A601	1/09A601	NONE	H-8	NR	16	STAINED SC WOOD DOOR IN HM FRAME
17	3'-0"	8'-0"	1 3/4"	G	1/09A601	1/09A601	NONE	H-8	NR	17	STAINED SC WOOD DOOR IN HM FRAME - PROVIDE MARBLE THRESHOLD IF NEEDED
18	3'-0"	8'-0"	1 3/4"	G	1/09A601	1/09A601	NONE	H-8	NR	18	STAINED SC WOOD DOOR IN HM FRAME
19	3'-0"	8'-0"	1 3/4"	G	1/09A601	1/09A601	TS-1	H-11	NR	19	STAINED SC WOOD DOOR IN HM FRAME
20	3'-0"	8'-0"	1 3/4"	G	1/09A601	1/09A601	TS-6	H-9	NR	20	STAINED SC WOOD DOOR IN HM FRAME
21	3'-0"	8'-0"	1 3/4"	K	1/09A601	1&2/09A602	TS-5	H-12	NR	21	STAINED SC WOOD DOOR IN HM FRAME WITH SINGLE SIDELITE WITH TEMPERED GLASS
22	3'-0"	8'-0"	1 3/4"	K	1/09A601	1&2/09A602	TS-5	H-12	NR	22	STAINED SC WOOD DOOR IN HM FRAME WITH SINGLE SIDELITE WITH TEMPERED GLASS
23	3'-0"	8'-0"	1 3/4"	G	1/09A601	1/09A601	NONE	H-8	NR	23	STAINED SC WOOD DOOR IN HM FRAME
24	3'-0"	8'-0"	1 3/4"	K	1/09A601	1&2/09A602	TS-5	H-12	NR	24	STAINED SC WOOD DOOR IN HM FRAME WITH SINGLE SIDELITE WITH TEMPERED GLASS
25	3'-0"	8'-0"	1 3/4"	K	1/09A601	1&2/09A602	TS-5	H-12	NR	25	STAINED SC WOOD DOOR IN HM FRAME WITH SINGLE SIDELITE WITH TEMPERED GLASS
26	3'-0"	8'-0"	1 3/4"	K	1/09A601	1&2/09A602	TS-5	H-12	NR	26	STAINED SC WOOD DOOR IN HM FRAME WITH SINGLE SIDELITE WITH TEMPERED GLASS
27	3'-0"	8'-0"	1 3/4"	K	1/09A601	1&2/09A602	TS-5	H-12	NR	27	STAINED SC WOOD DOOR IN HM FRAME WITH SINGLE SIDELITE WITH TEMPERED GLASS
28	3'-0"	8'-0"	1 3/4"	K	1/09A601	1&2/09A602	TS-5	H-12	NR	28	STAINED SC WOOD DOOR IN HM FRAME WITH SINGLE SIDELITE WITH TEMPERED GLASS
29	3'-0"	8'-0"	1 3/4"	L	6/09A602	7/09A602	NONE	H-13	NR	29	STAINED SC WOOD DOOR IN BARN DOOR WITH SLIDING FRAME/HARDWARE
30	3'-0"	8'-0"	1 3/4"	L	6/09A602	7/09A602	NONE	H-13	NR	30	STAINED SC WOOD DOOR IN BARN DOOR WITH SLIDING FRAME/HARDWARE

REMARKS  
 T TEMPERED GLASS  
 U INSULATED/OBSCURE  
 U INSULATED/TEMPERED GLASS  
 TS-X = SCHLUTER THRESHOLD TRIM  
 NR = NOT RATED  
 W/ = WITH  
 SC = SOLID CORE WOOD DOOR  
 HM = HOLLOW METAL FRAME - PRIMED & PAINTED  
 AL = ALUMINUM DOOR AND ALUMINUM FRAME  
 STC = SOUND TRANSMISSION CO-EFFICIENT  
 ADA = HANDICAP ACCESSIBLE HARDWARE



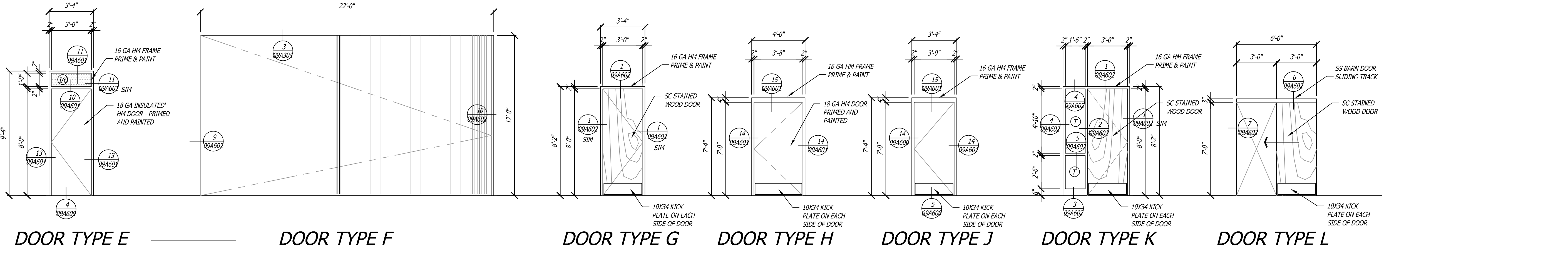
DOOR TYPE A DOOR TYPE B



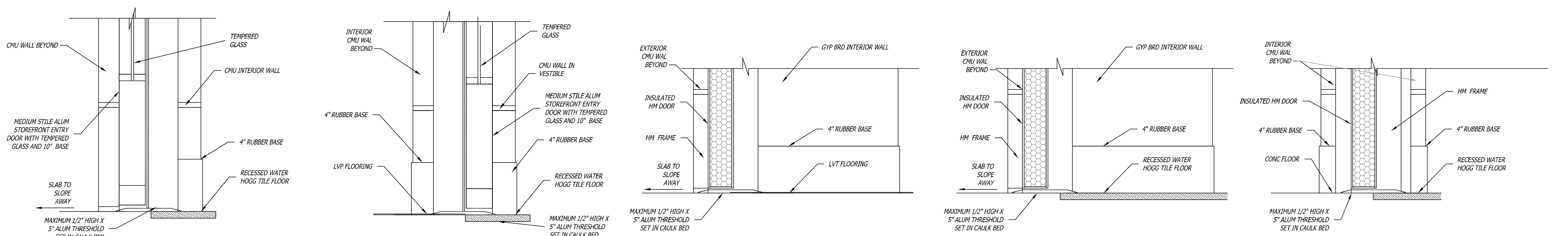
DOOR TYPE C DOOR TYPE D

PROVIDE SCHLUTER TRANSITION STRIPS AS FOLLOWS:  
 TS-1 CERAMIC TILE TO CONCRETE OR LVP FLOORING - RENO-V OR VIN-PRO S - BRUSHED GRAPHITE A80AGR8 FINISH  
 TS-4 VINYL (LVP) FLOORING TO VCT FLOORING - RENO-TK, FINISH: (AE) BRUSHED GRAPHITE A80AGR8 FINISH  
 TS-5 CARPET TO VINYL (LVP) FLOORING - RENO-V, FINISH: (AE) BRUSHED GRAPHITE A80AGR8 FINISH  
 TS-6 VINYL (LVP) OR CARPET TO CONCRETE - RENO-V, FINISH: (AE) BRUSHED GRAPHITE A80AGR8 FINISH

NOTES:  
 1. ON THESE UPPER GLASS SECTIONS, INSTALL AN OBSCURE GLASS ON THE INSIDE FACE OF THE NEW GLASS WITH CLEAR GLASS ON OUTSIDE FACE. BOTH TEMPERED WITH LOW E

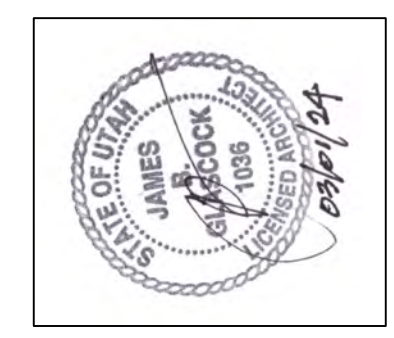


DOOR TYPE E DOOR TYPE F DOOR TYPE G DOOR TYPE H DOOR TYPE J DOOR TYPE K DOOR TYPE L



1 THRESHOLD @ EXT STOREFRONT DOOR 3" = 1'-0"  
 2 THRESHOLD @ INT STOREFRONT DOOR 3" = 1'-0"  
 3 THRESHOLD @ HM DOOR 3" = 1'-0"  
 4 THRESHOLD @ HM DOOR @ EMPLOYE ENTRIES 3" = 1'-0"  
 5 THRESHOLD @ HM DOOR IN VESTIBULE 3" = 1'-0"

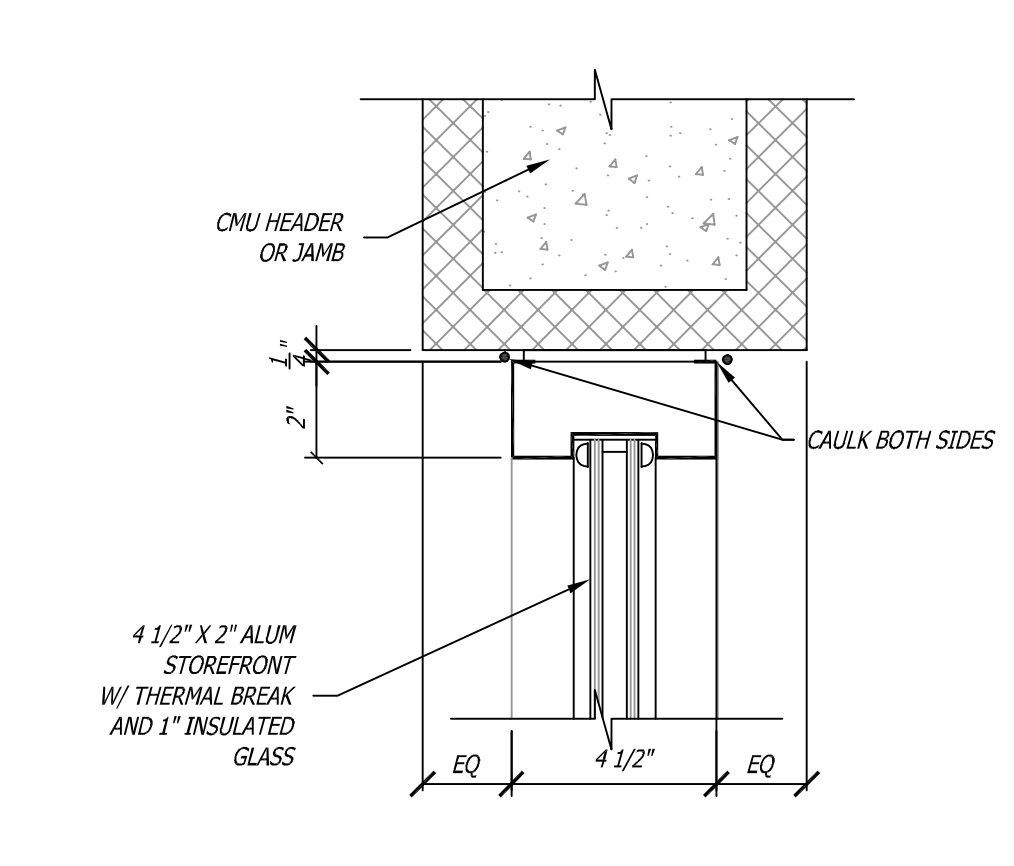
James B. Glascock, Architect P.C.  
 Architecture - Planning  
 1890 I East Lark Drive  
 Queen Cree, Arizona 85142  
 801 - 860 - 8905 e-mail: jglascock@mtcon.net



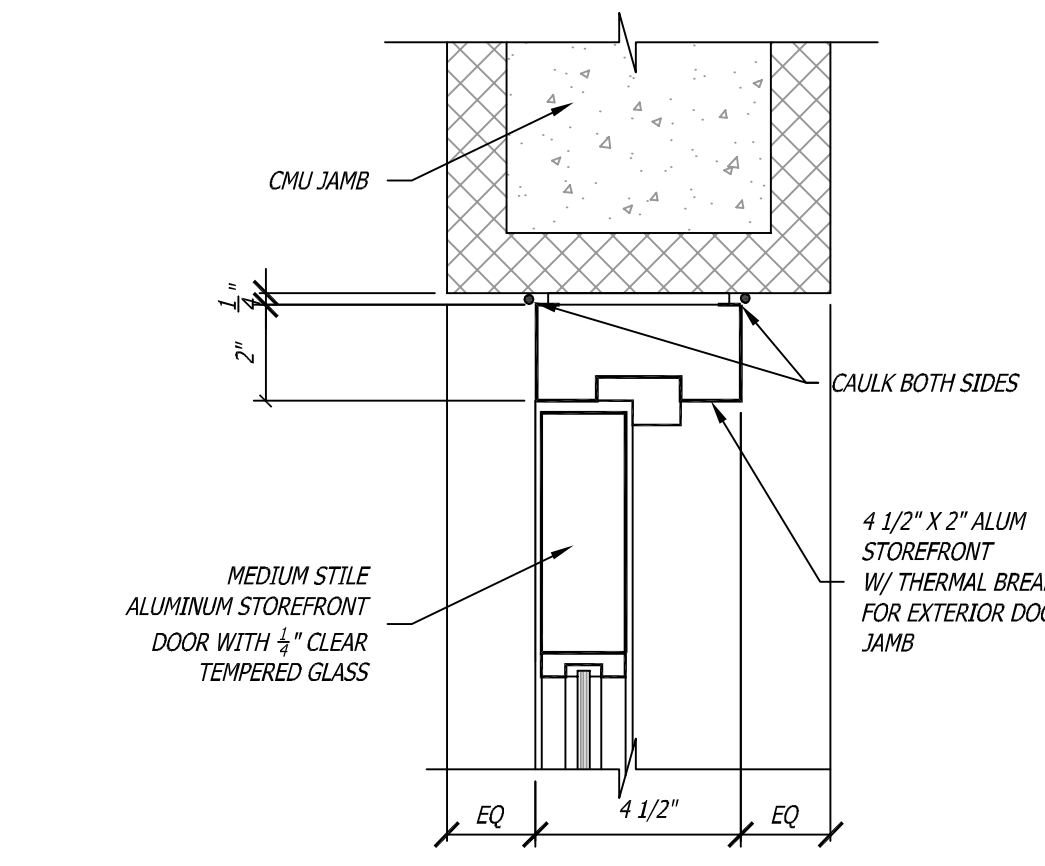
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Date	Revisions
03/01/24	09A600

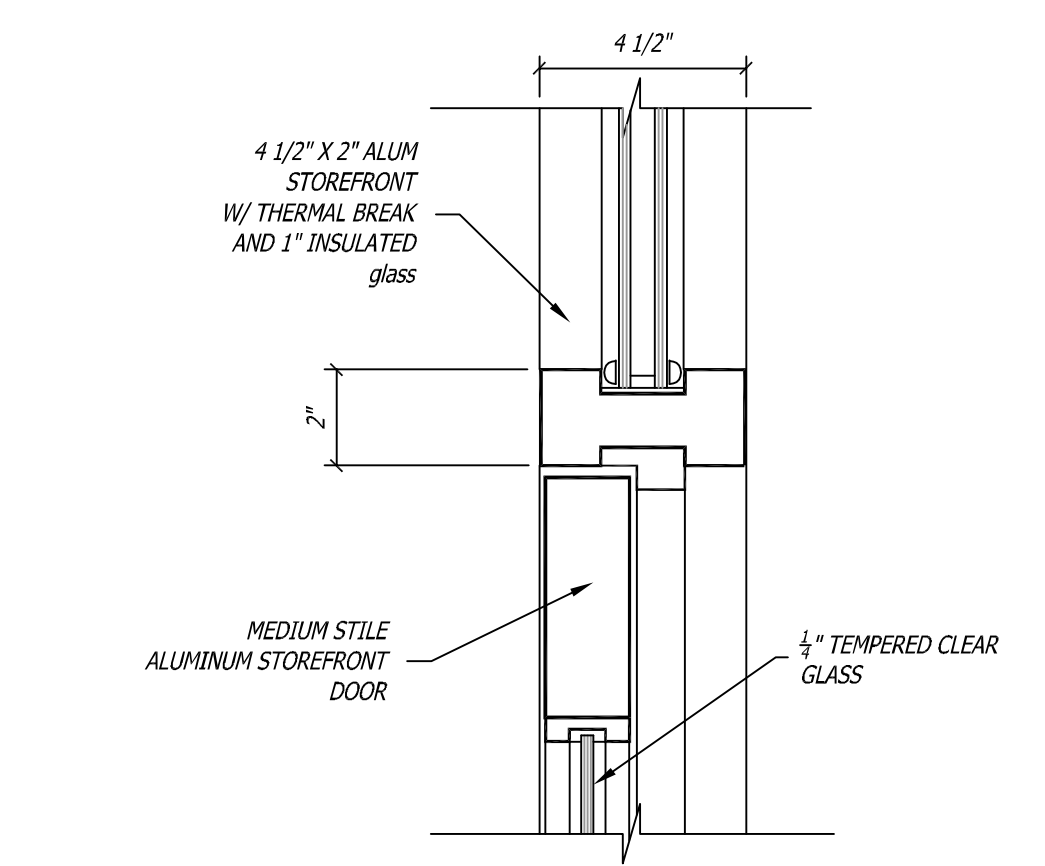
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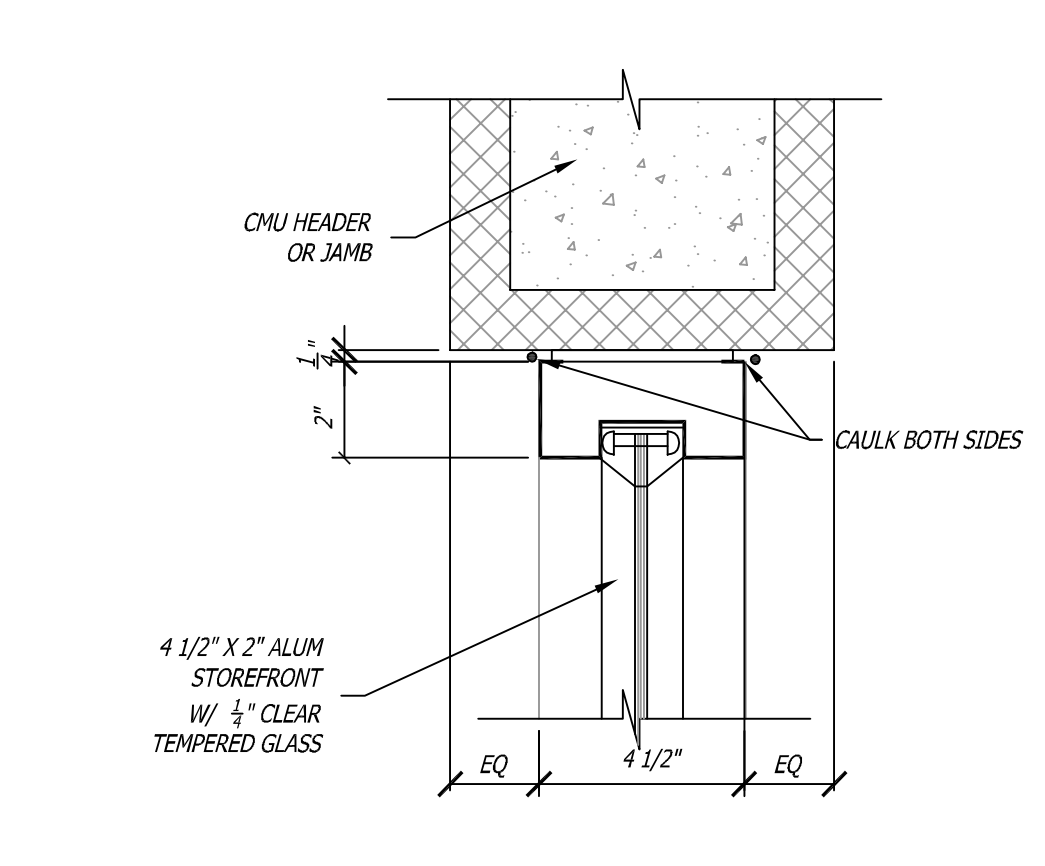
**1** EXTERIOR ALUM STOREFRONT WINDOW HEAD  
 09A601 3" = 1'-0" JAMB SIMILAR



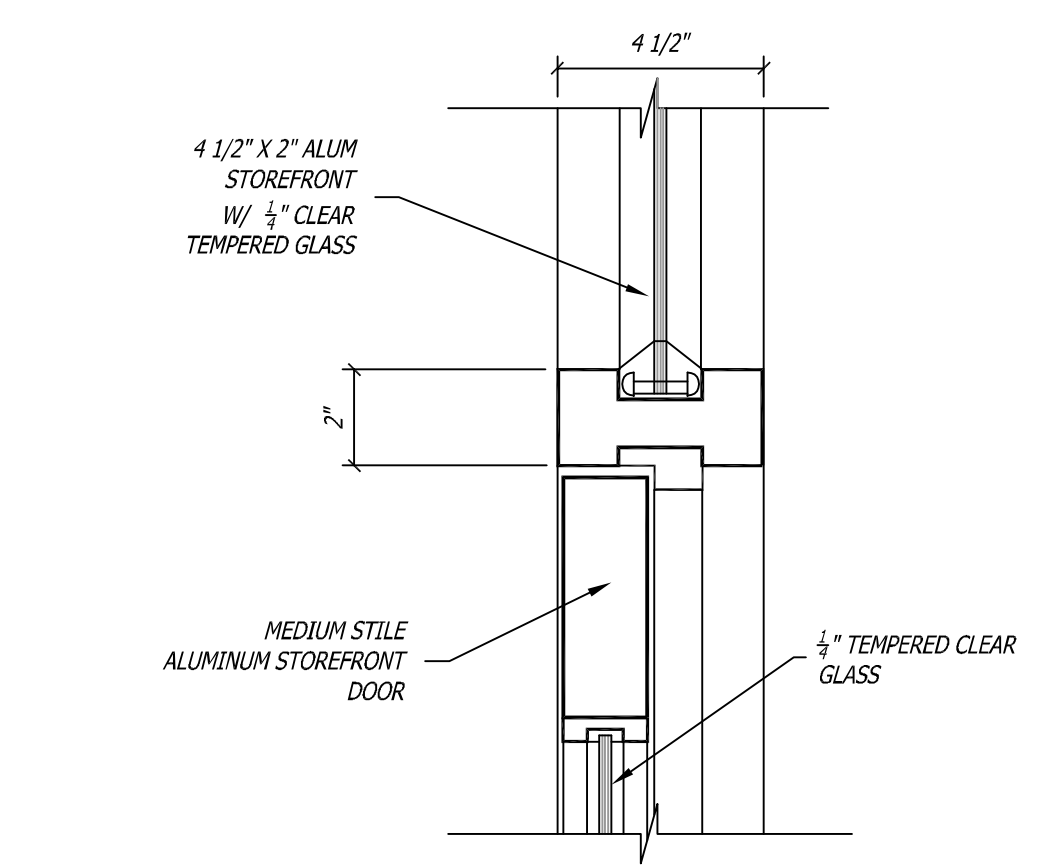
**2** EXTERIOR ALUM STOREFRONT DOOR JAMB  
 09A601 3" = 1'-0" INTERIOR DOOR JAMB SIMILAR (NO T-BREAK IN FRAME)



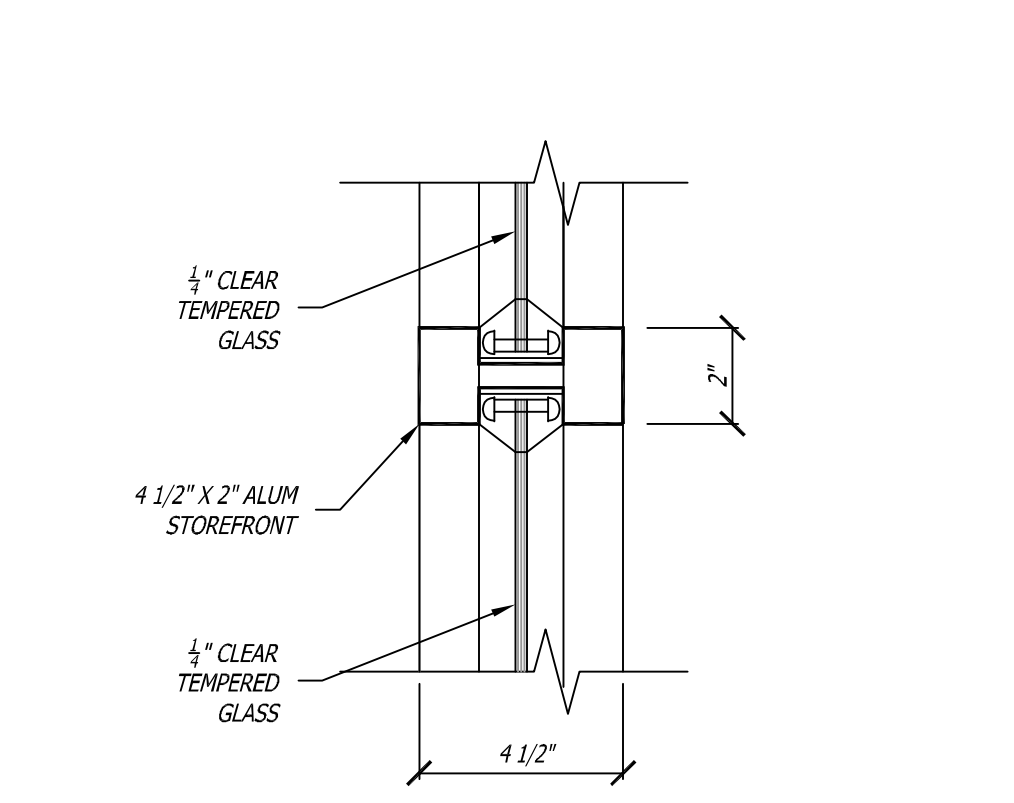
**3** EXTERIOR ALUM STOREFRONT DOOR HEAD  
 09A601 3" = 1'-0" JAMB SIMILAR



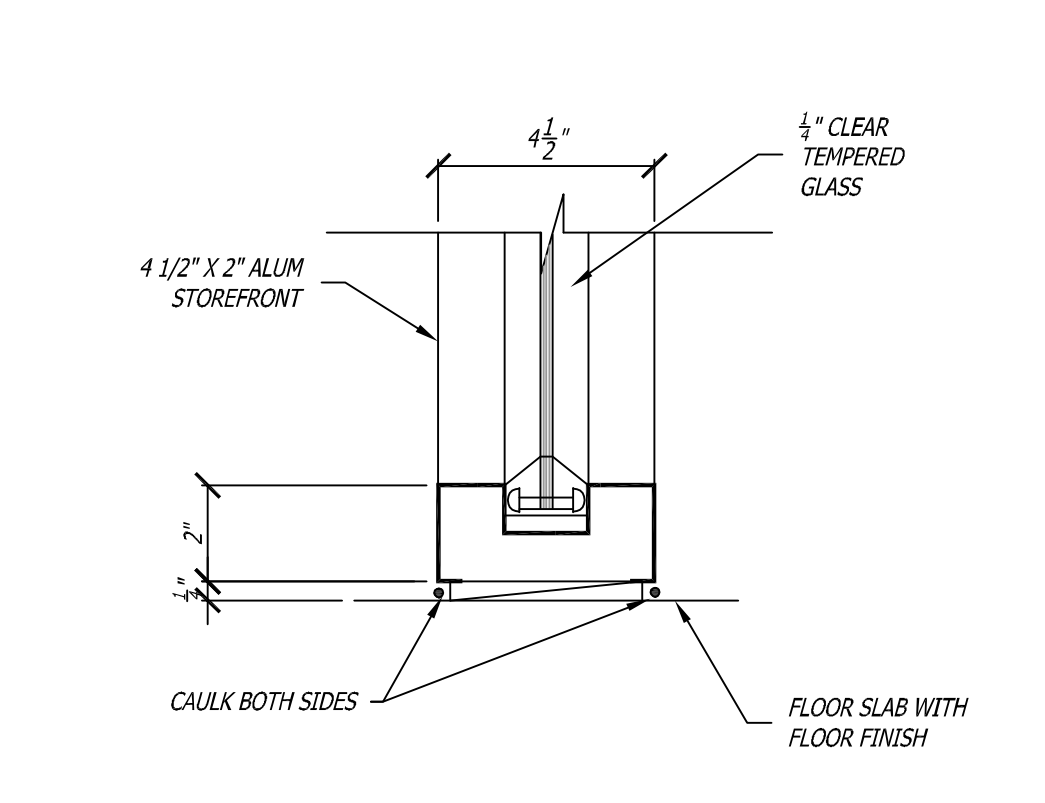
**4** INTERIOR ALUM STOREFRONT WINDOW HEAD  
 09A601 3" = 1'-0" JAMB SIMILAR



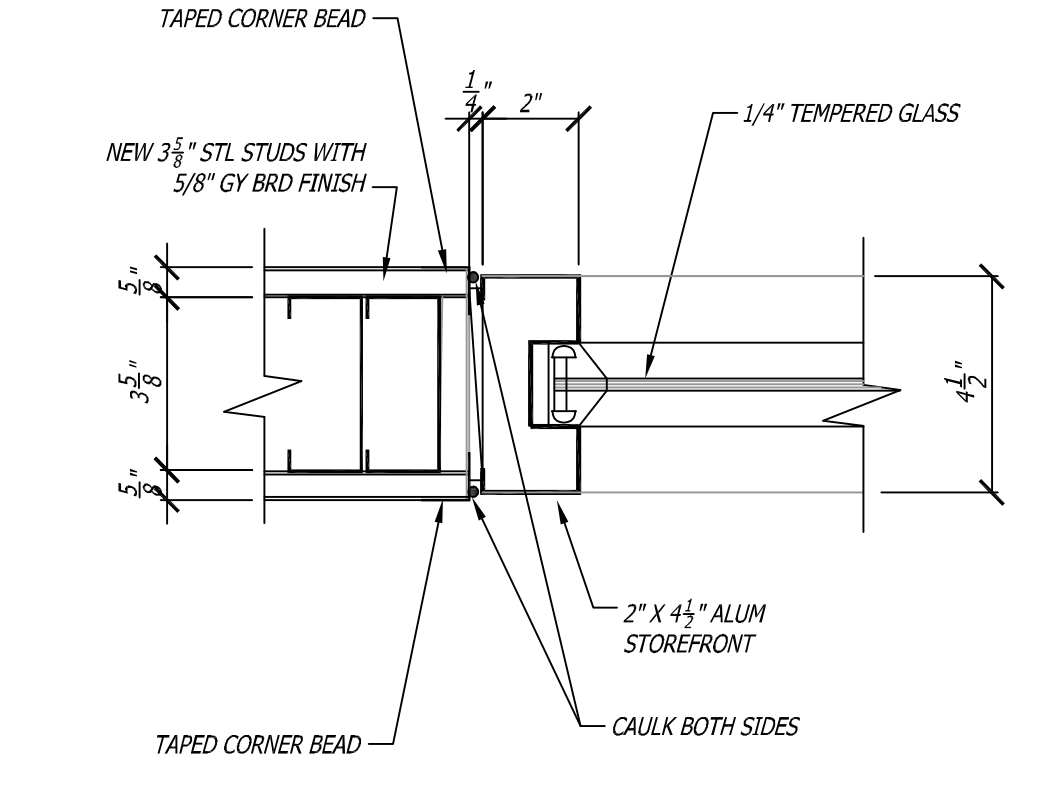
**5** INTERIOR ALUM STOREFRONT DOOR HEAD  
 09A601 3" = 1'-0" JAMB SIMILAR



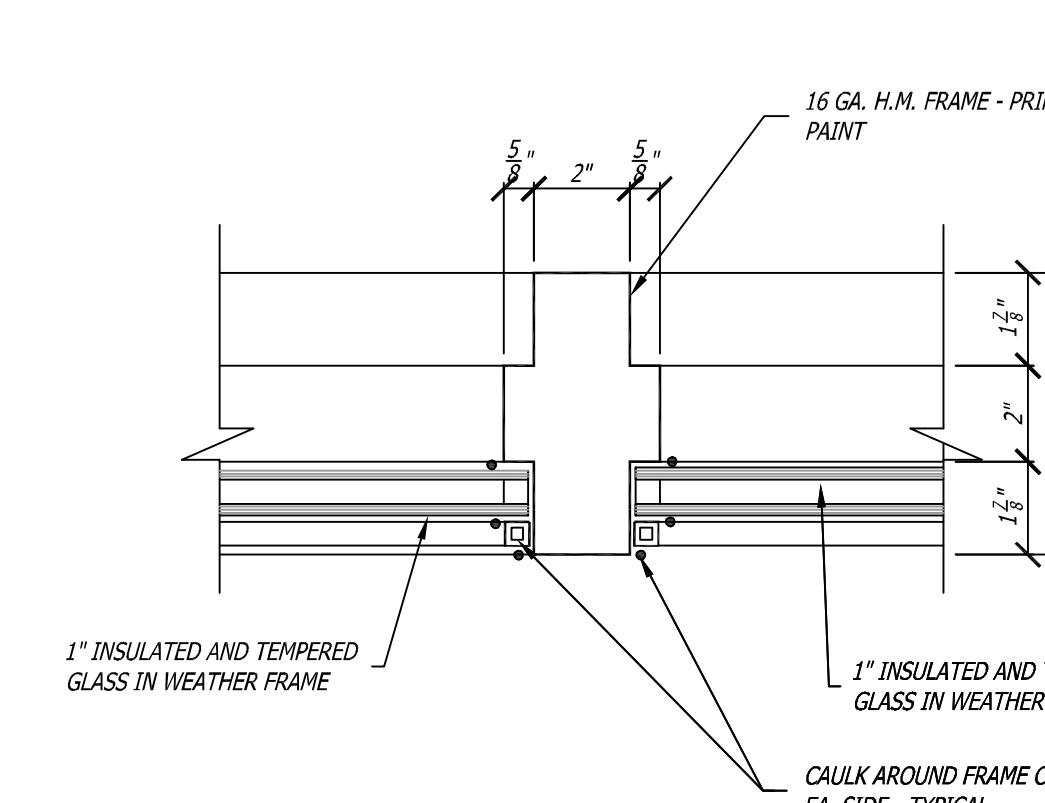
**6** INTERIOR STOREFRONT MULLION  
 09A601 3" = 1'-0"



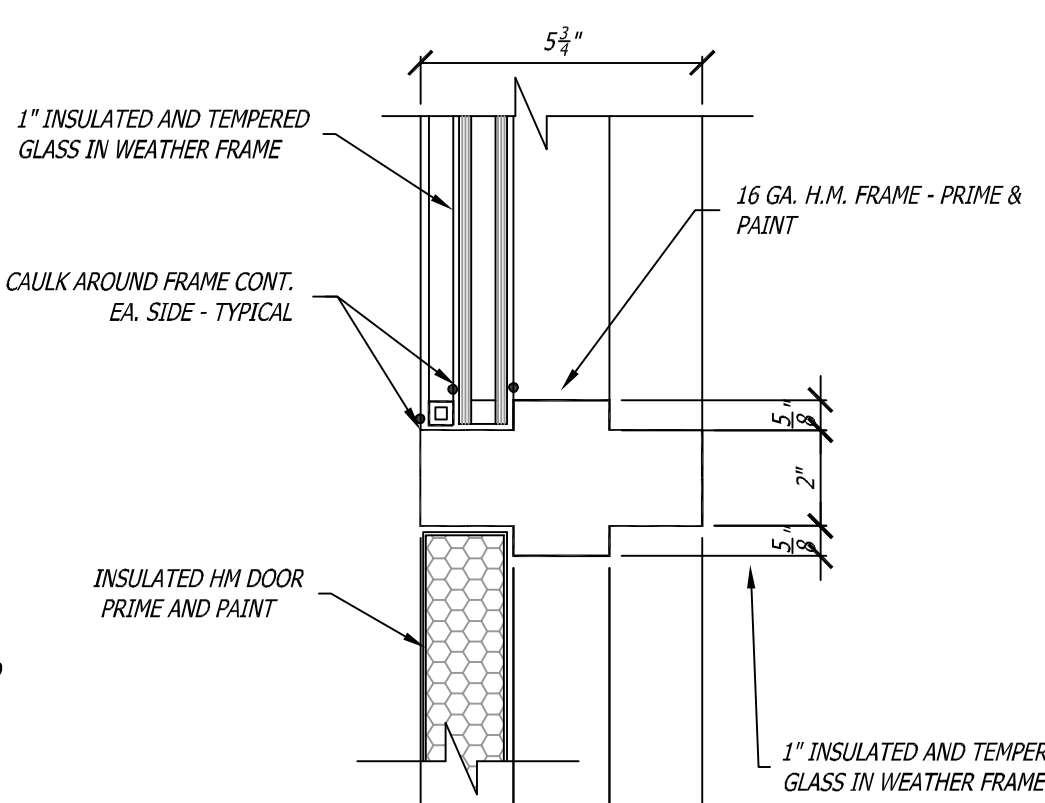
**7** INTERIOR STOREFRONT SILL  
 09A601 3" = 1'-0"



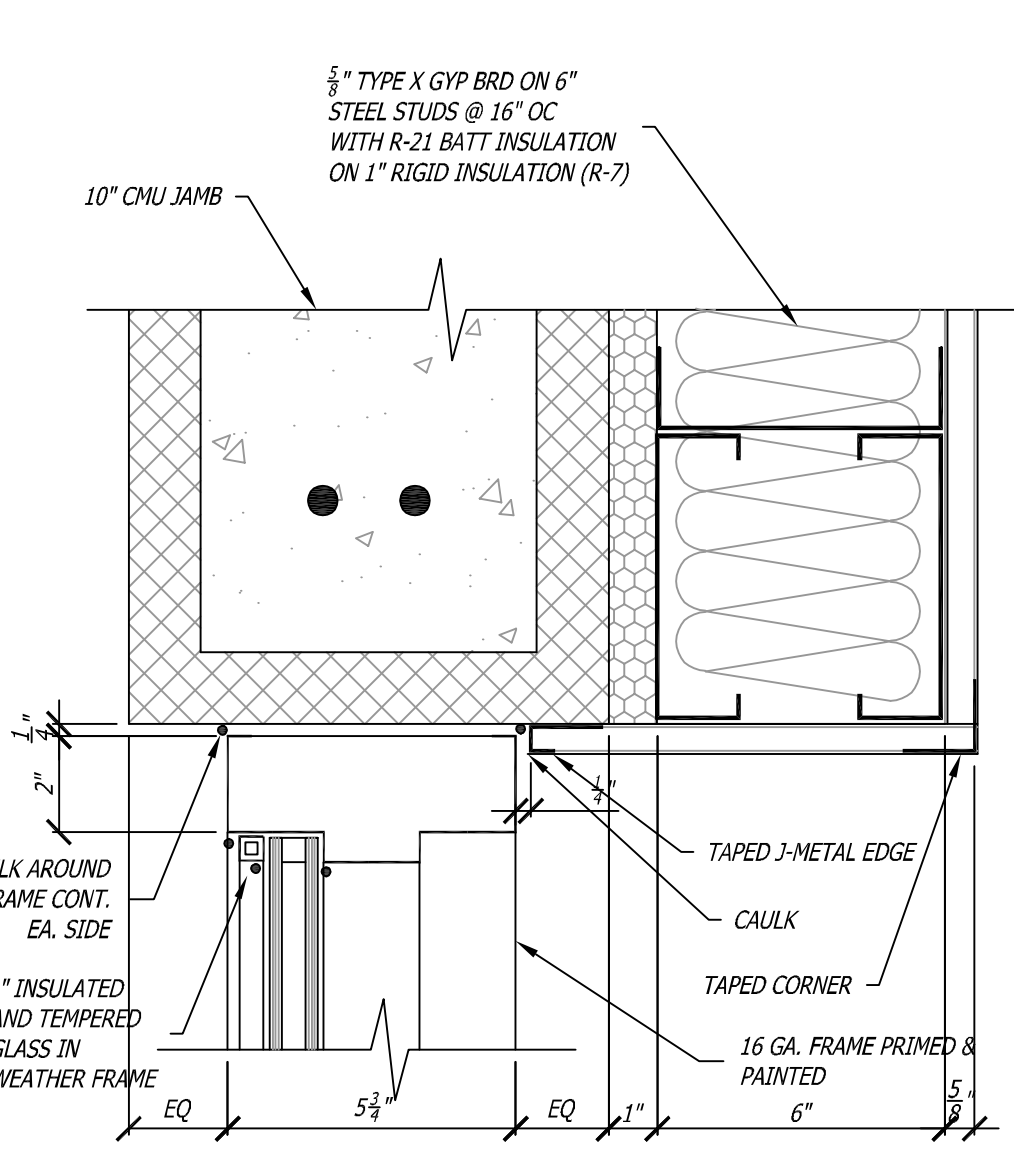
**8** STOREFRONT WINDOW HEAD  
 09A601 3" = 1'-0" JAMB SIMILAR



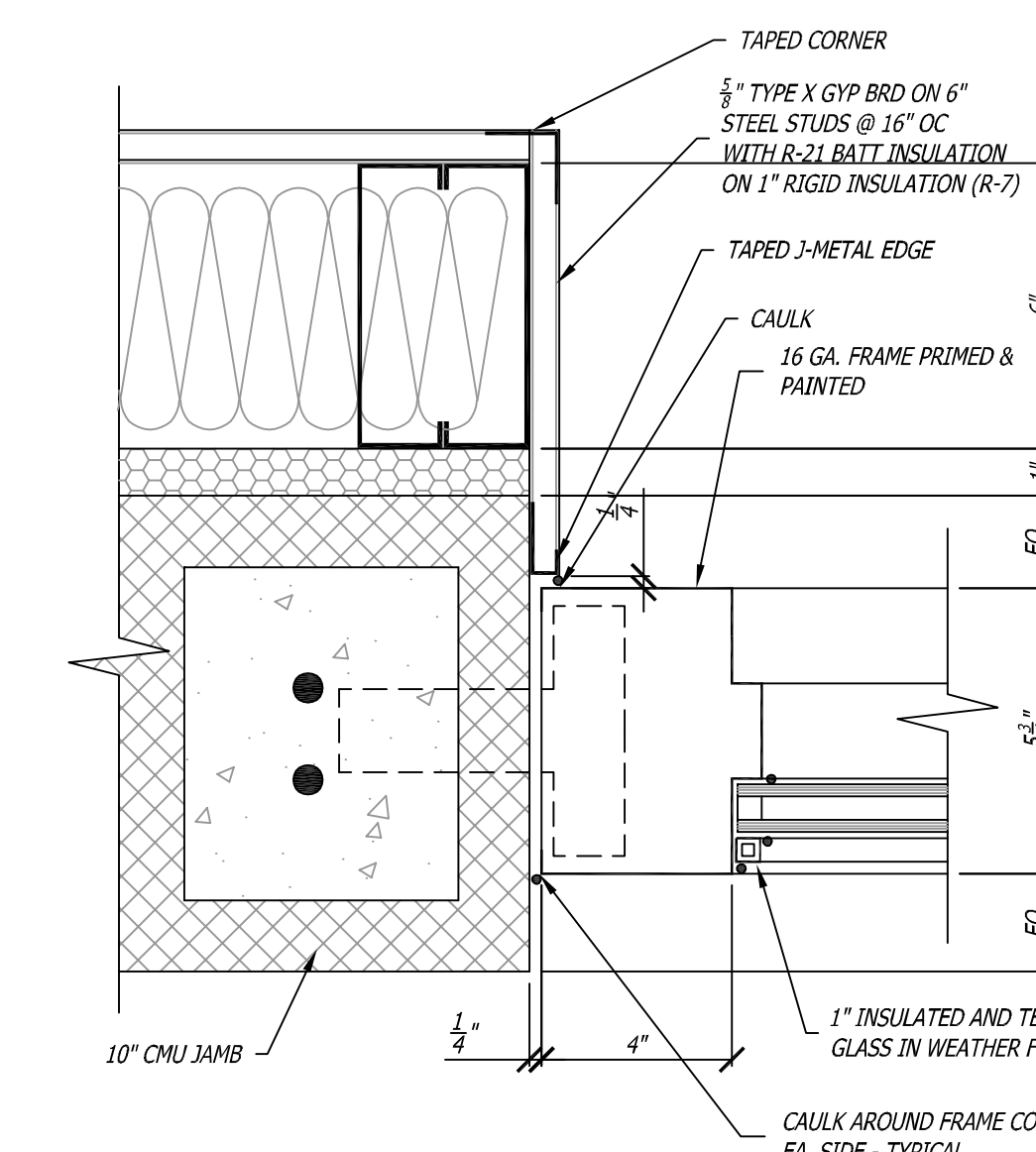
**9** EXTERIOR HM WINDOW MULLION  
 09A601 3" = 1'-0"



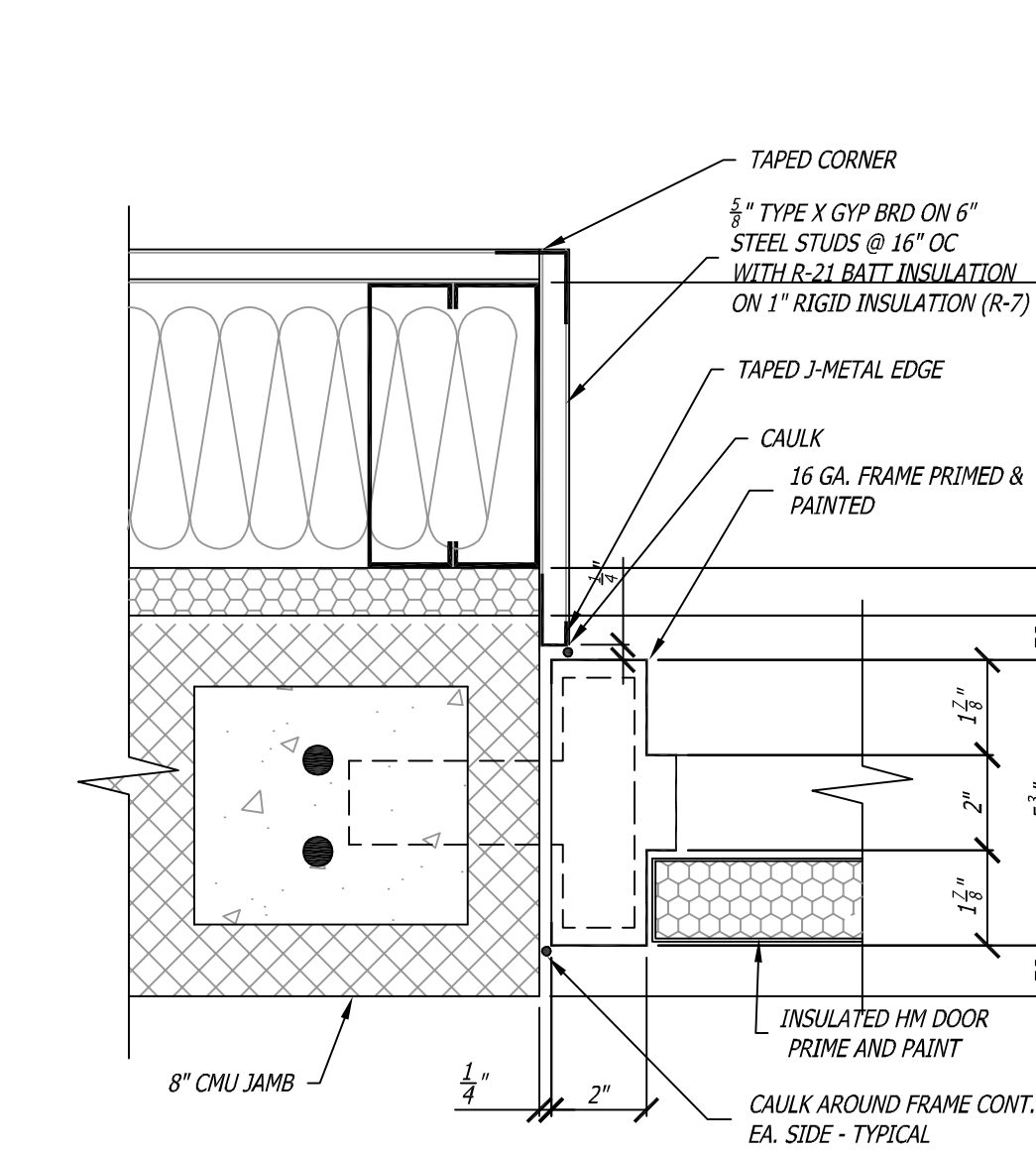
**10** EXTERIOR HM DOOR HEAD WITH TRANSOM  
 09A601 3" = 1'-0"



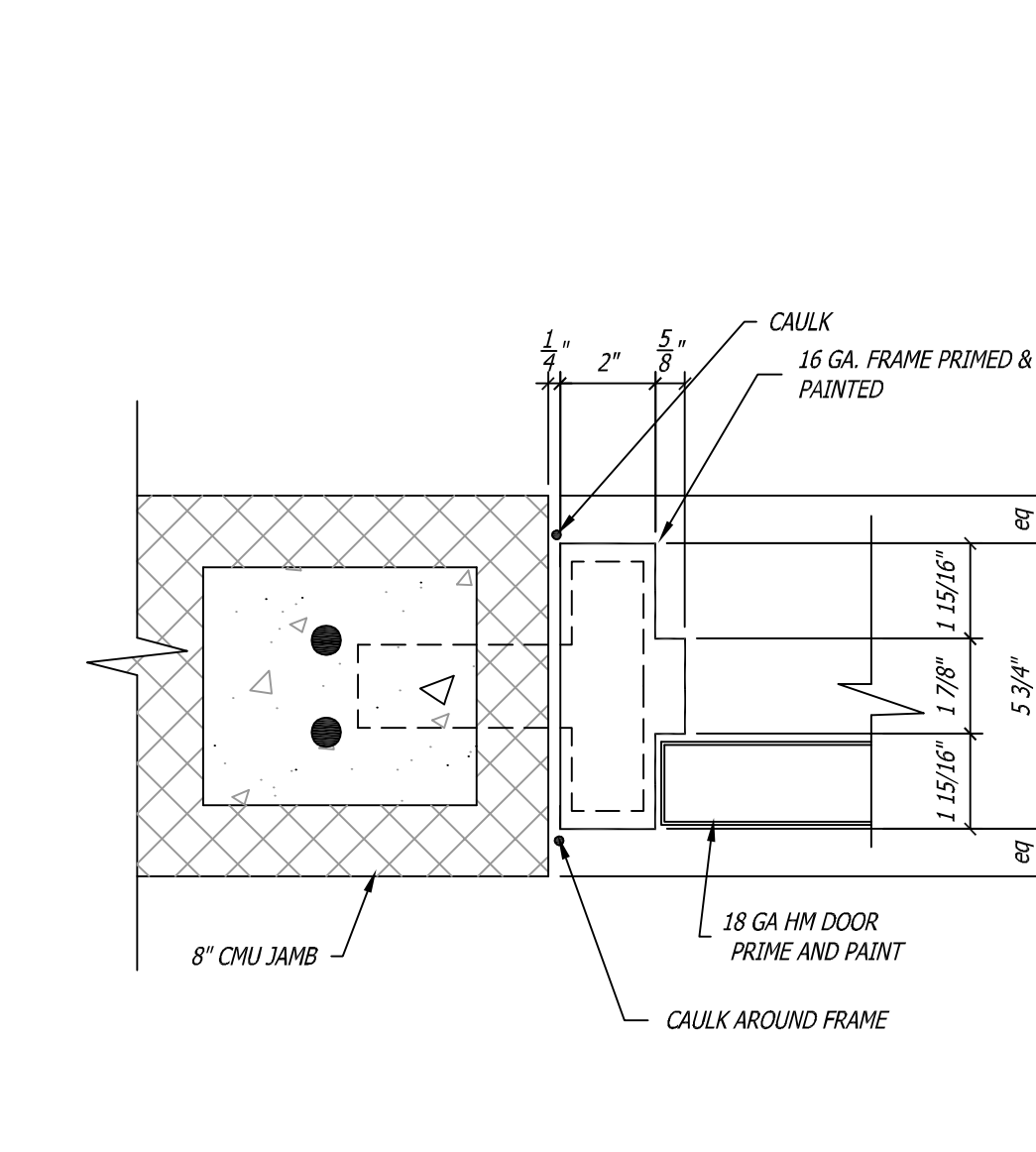
**11** 2" HM WINDOW HEAD @ CMU WALL  
 09A601 3" = 1'-0" JAMB SIM



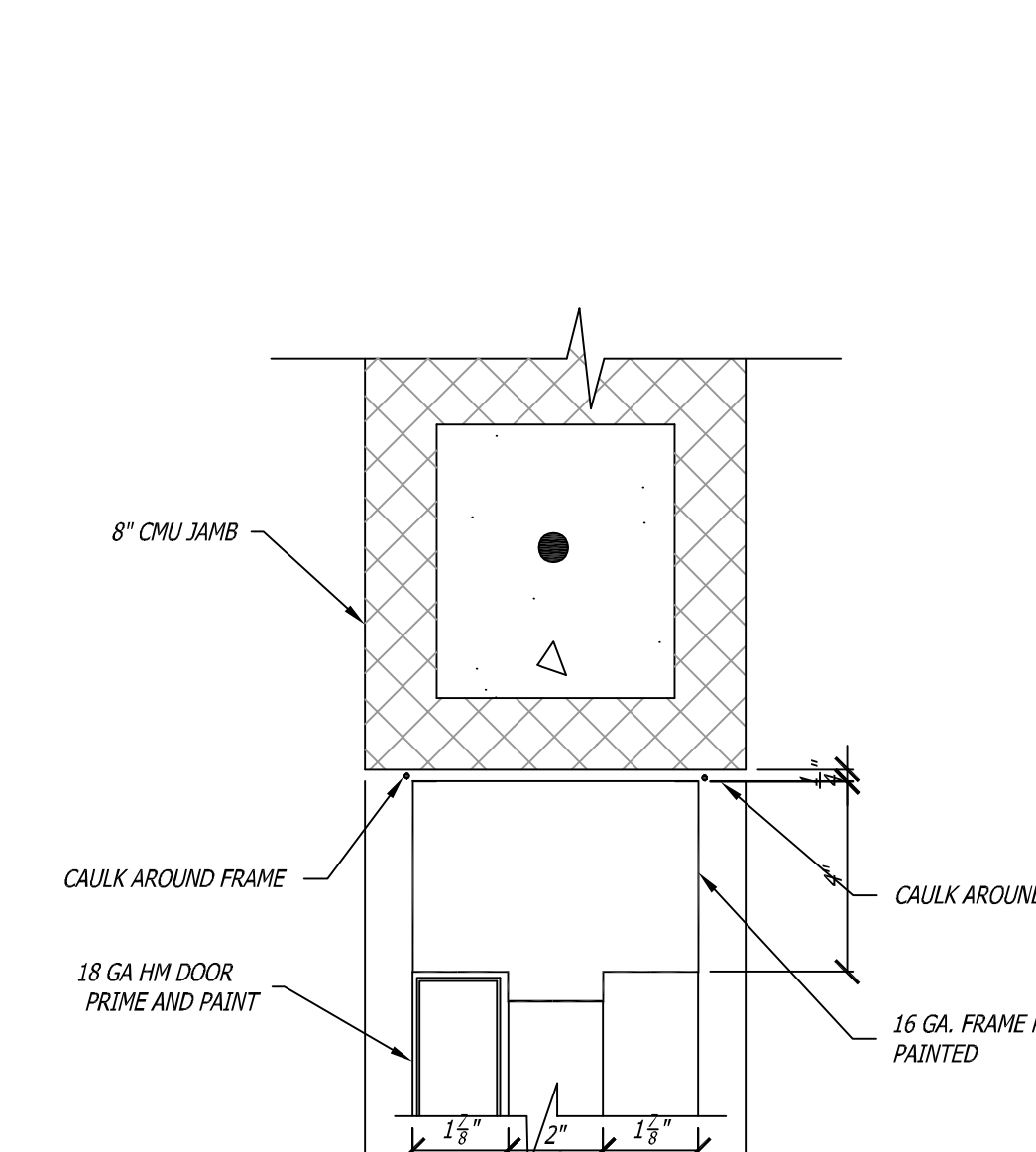
**12** 4" HM WINDOW JAMB @ CMU WALL  
 09A601 3" = 1'-0"



**13** 2" HM DOOR JAMB @ EXTERIOR CMU WALL  
 09A601 3" = 1'-0"

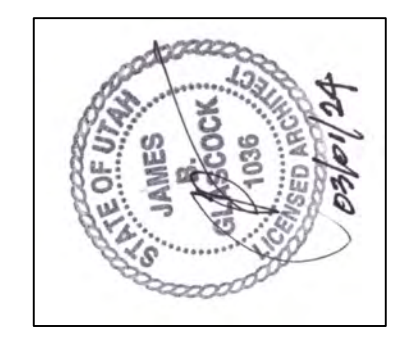


**14** 2" HM DOOR JAMB @ INTERIOR CMU WALL  
 09A601 3" = 1'-0"



**15** 4" HM DOOR JAMB @ INTERIOR CMU WALL  
 09A601 3" = 1'-0"

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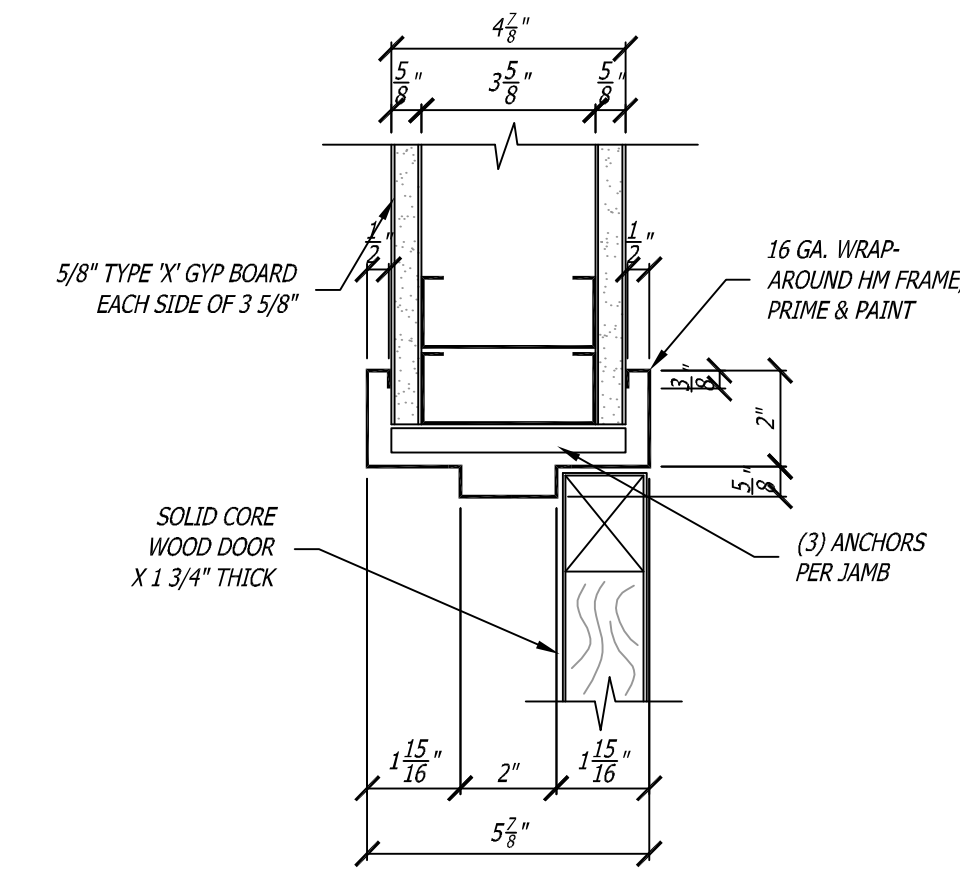


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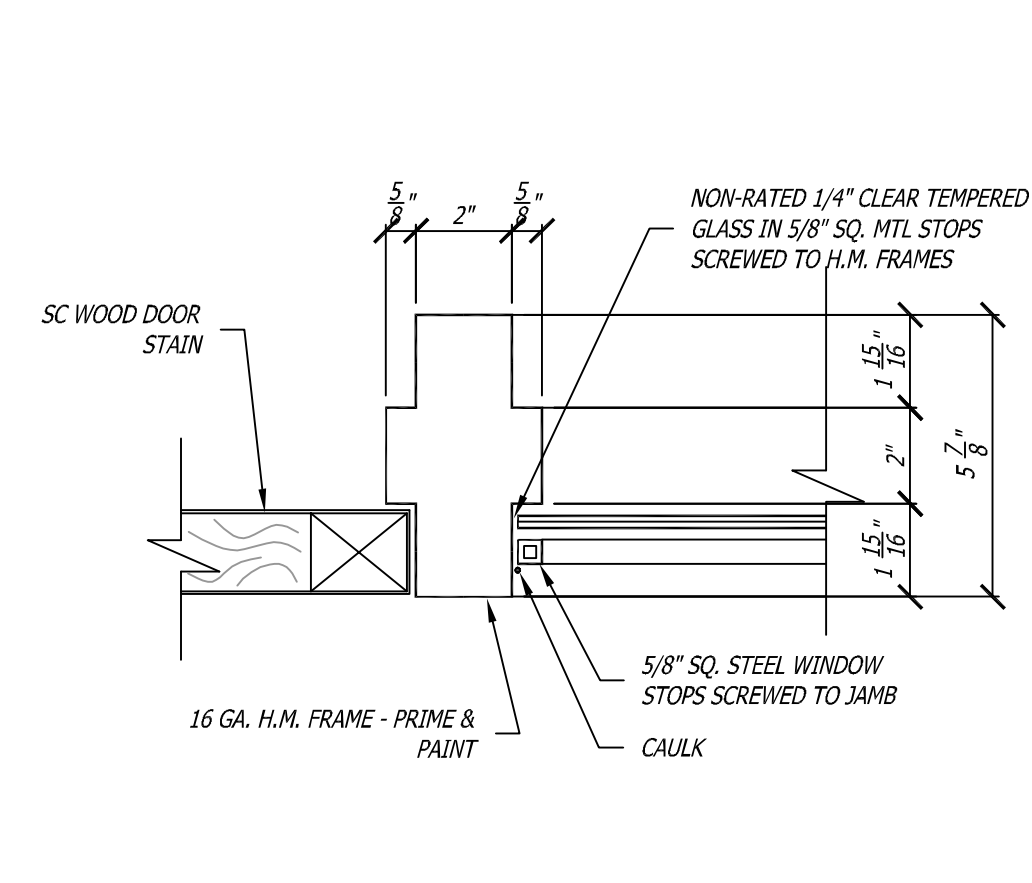
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 24-001  
 NORTH PLANT ADMINISTRATION OFFICE BUILDING  
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Date	Revisions
03/01/24	09A601

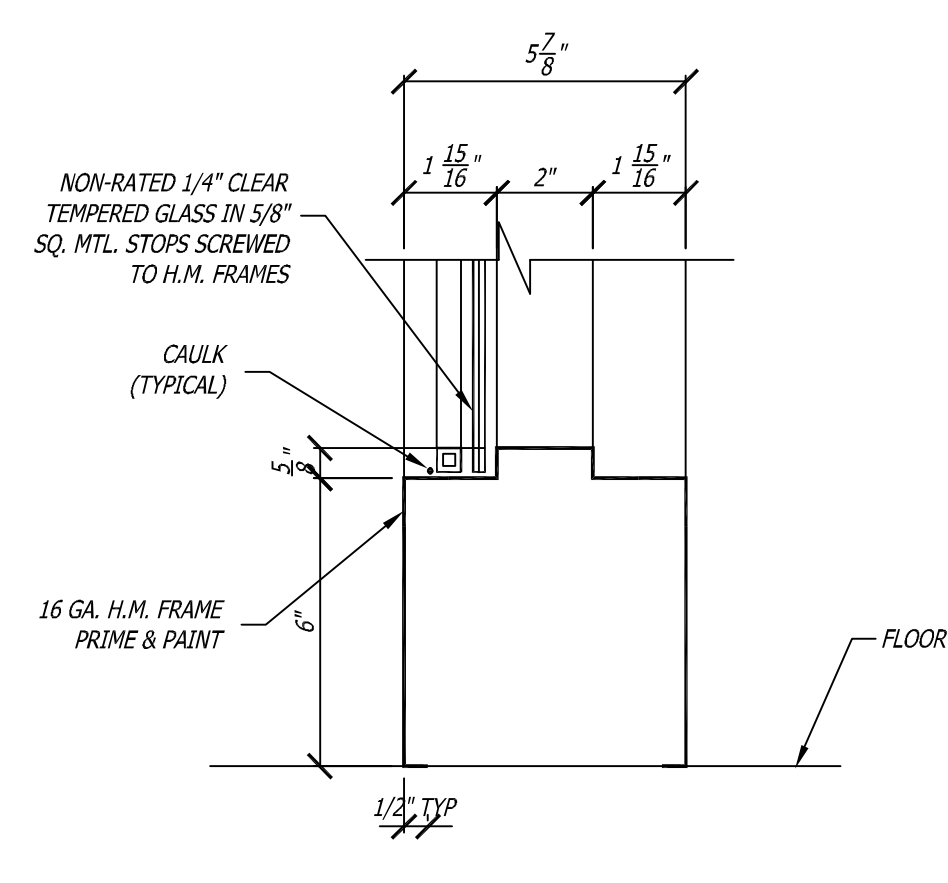




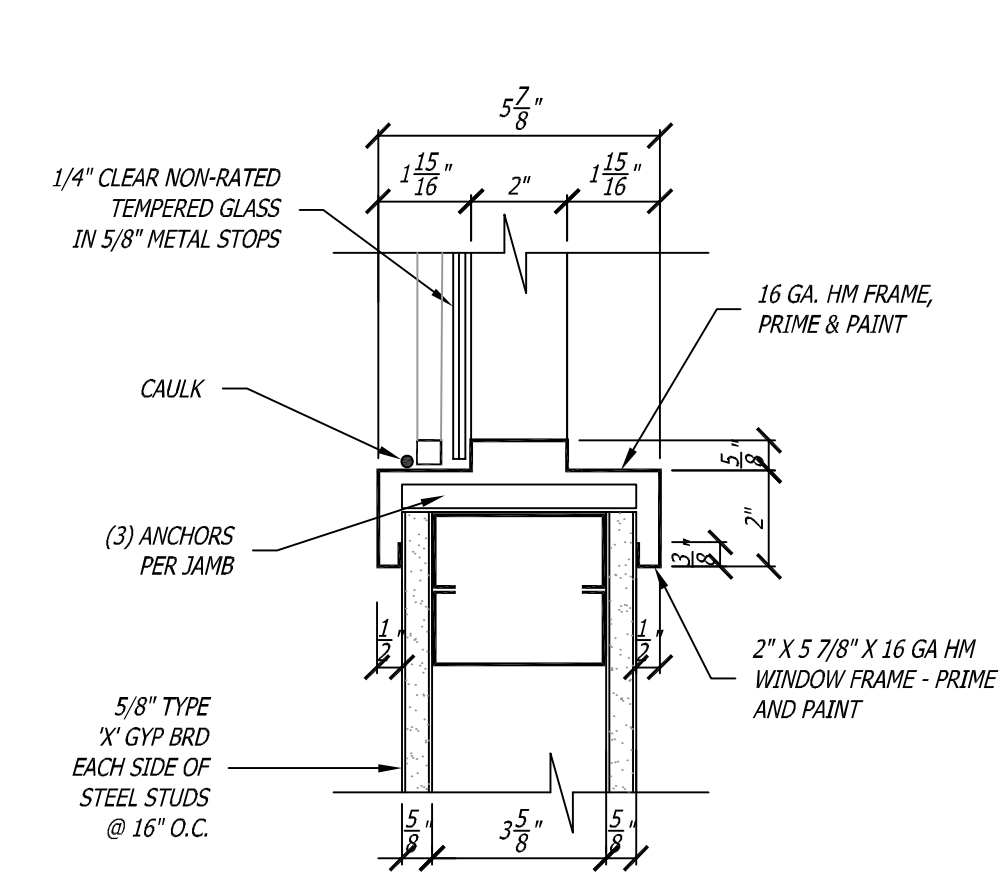
**1 WOOD DOOR WITH HM HEAD**  
 09A602 3" = 1'-0"



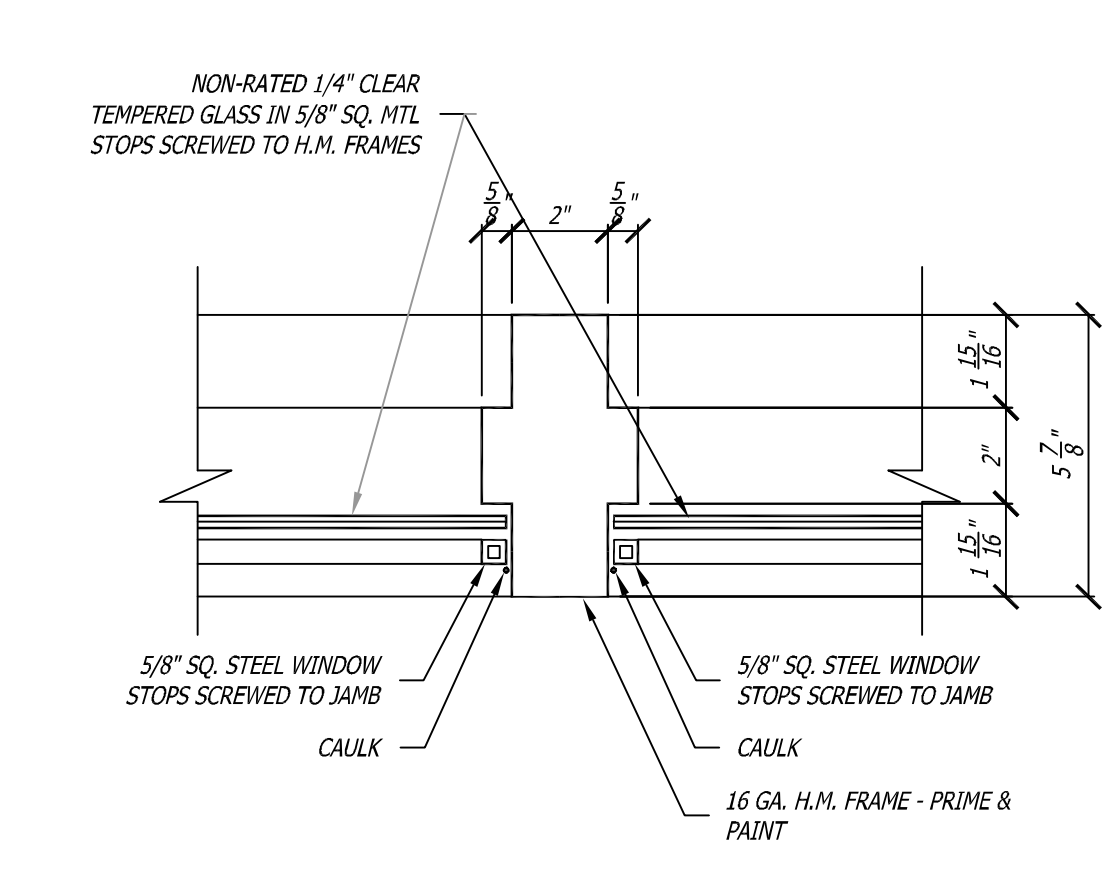
**2 WOOD DOOR & HM WINDOW JAMB**  
 09A602 3" = 1'-0"



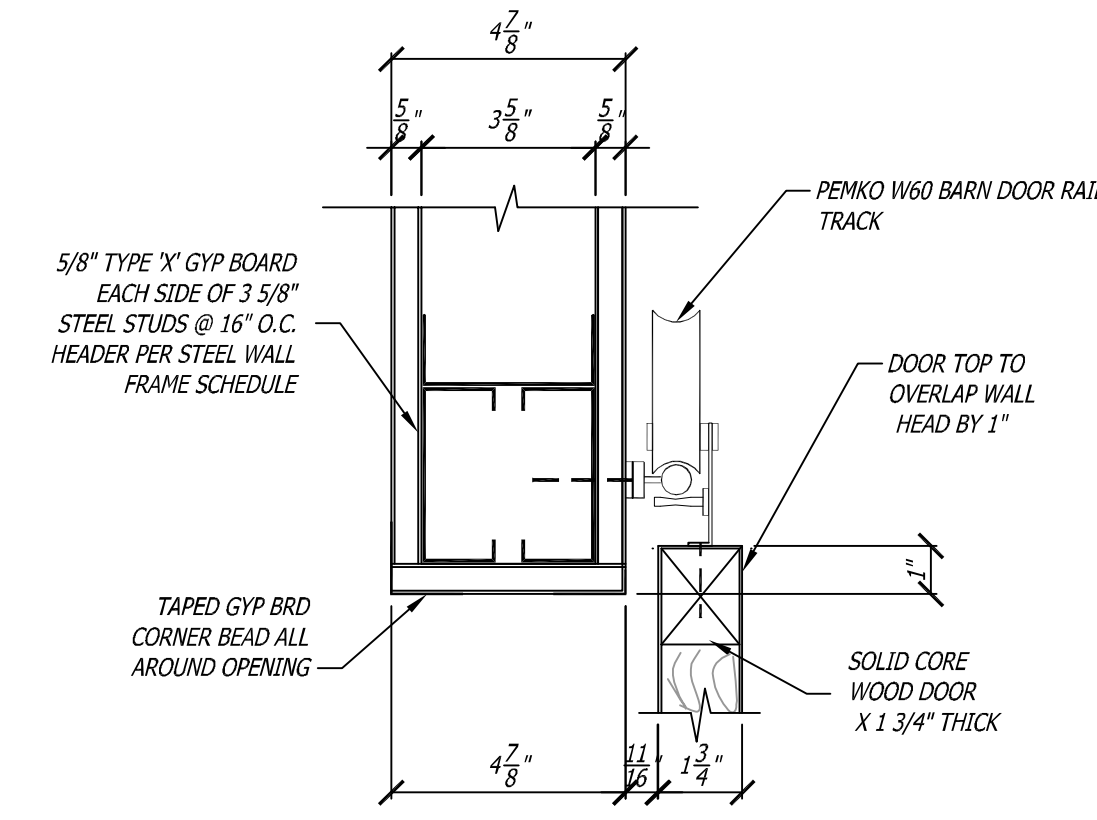
**3 HM WINDOW SILL**  
 09A602 3" = 1'-0"



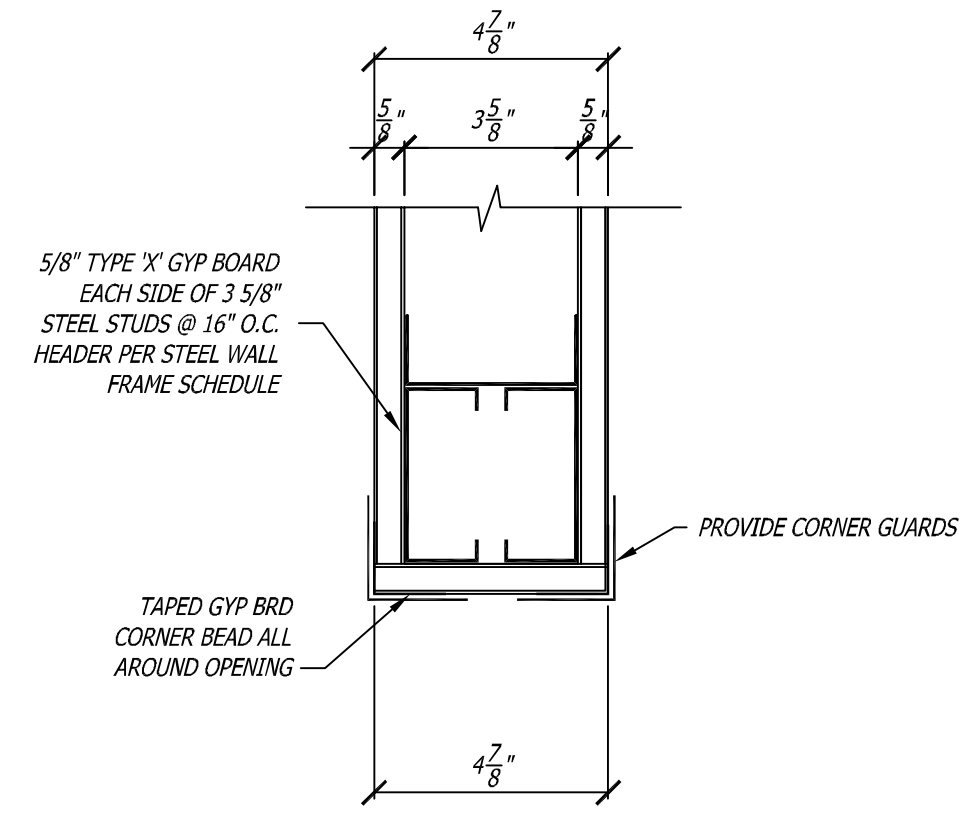
**4 2" HM WINDOW JAMB/HEAD**  
 09A602 3" = 1'-0"



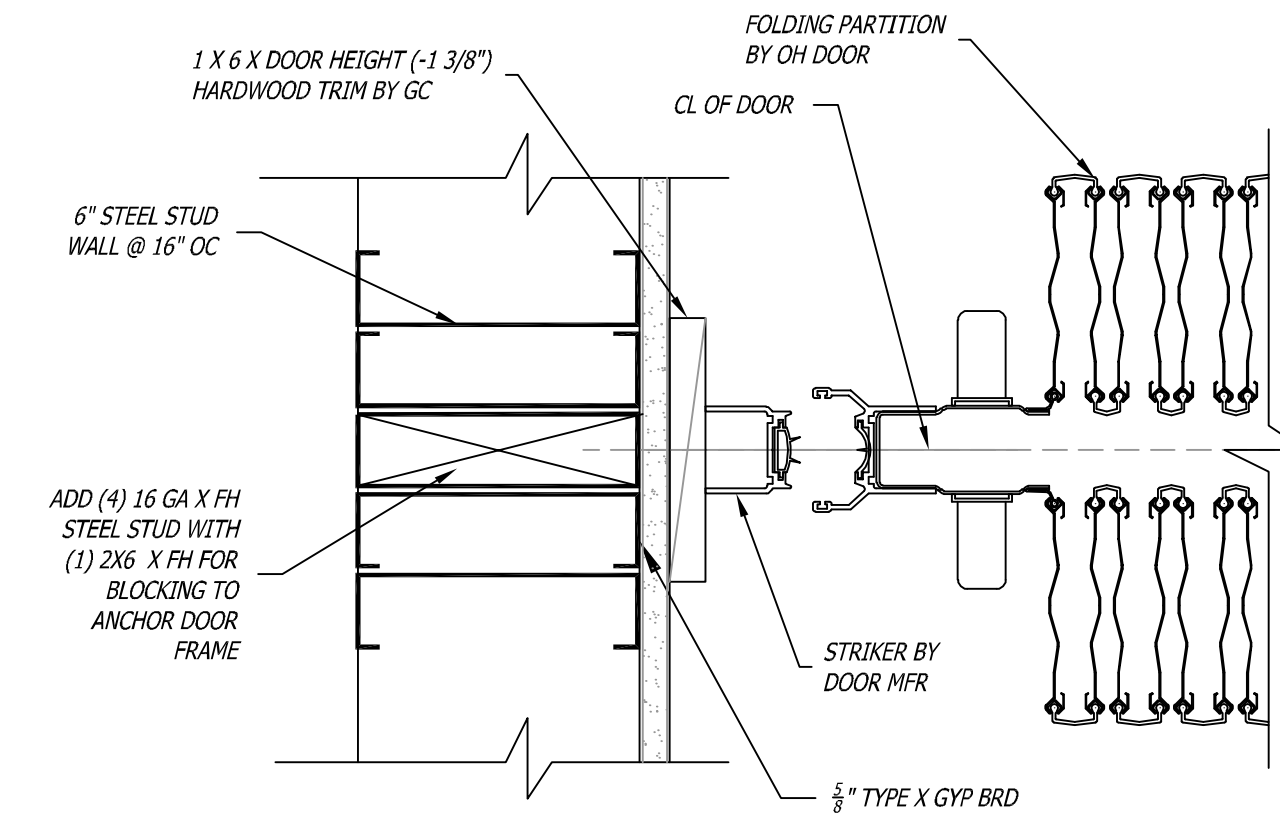
**5 HM WINDOW MULLION**  
 09A602 3" = 1'-0"



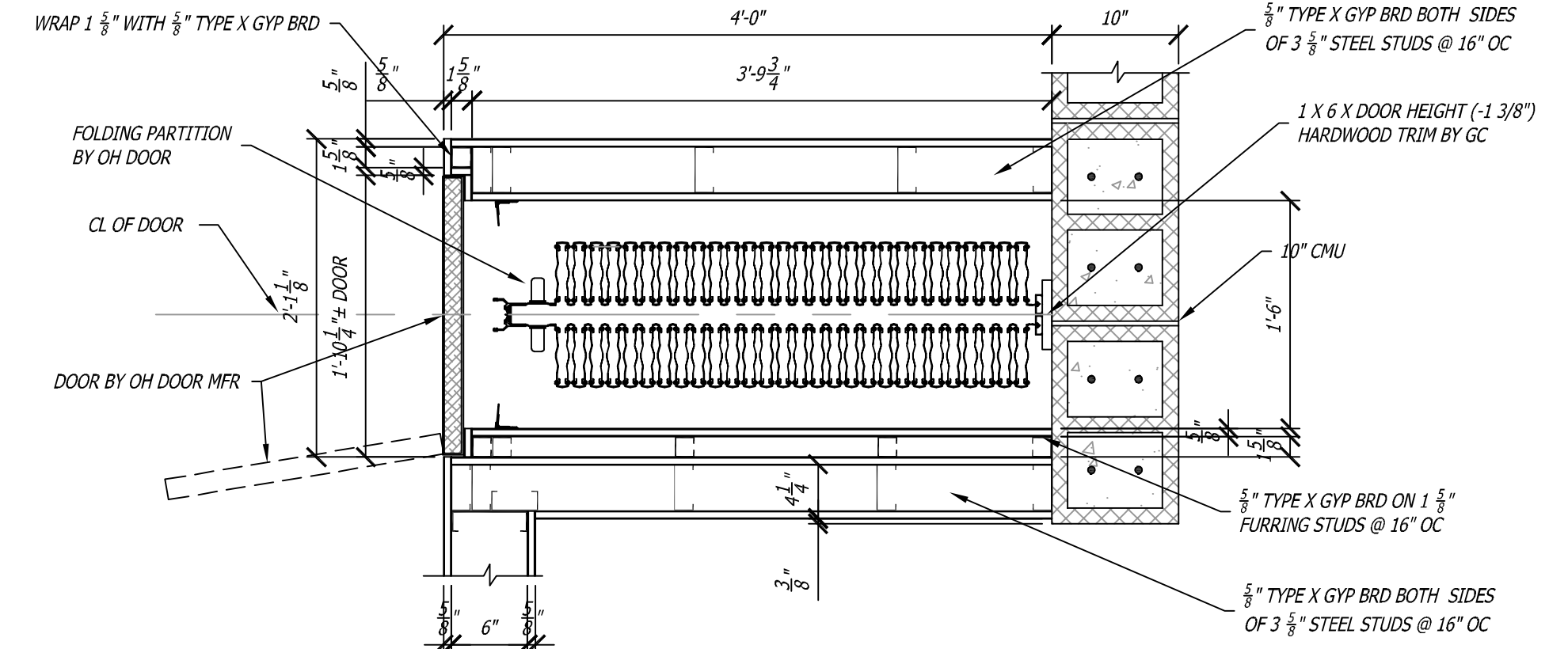
**6 BARN DOOR HEAD**  
 09A602 3" = 1'-0"



**7 BARN DOOR JAMB**  
 09A602 3" = 1'-0"



**8 ACCORDION DOOR - FIXED JAMB END**  
 09A602 3" = 1'-0"



**9 ACCORDION DOOR - FIXED JAMB END - ENCLOSURE**  
 09A602 1" = 1'-0"

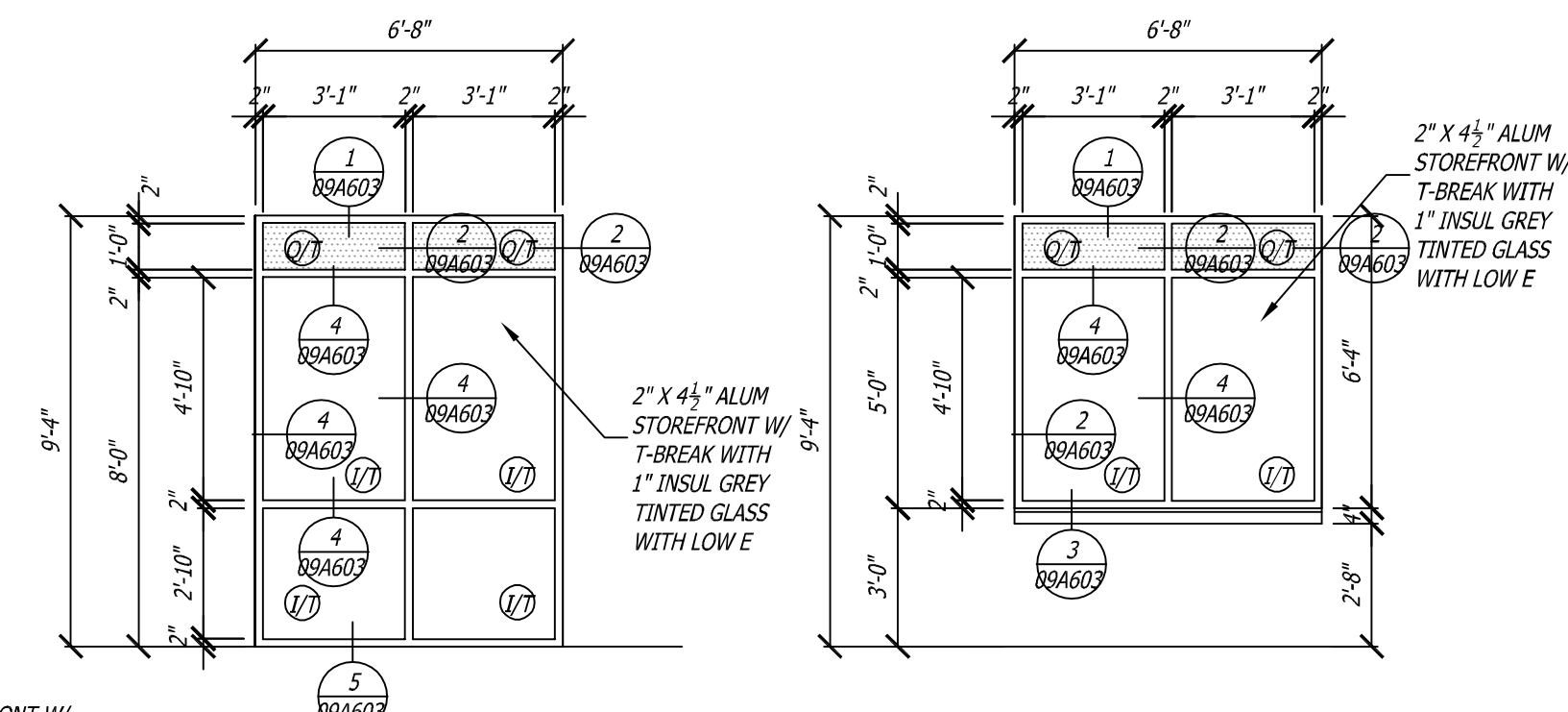
VERIFY THIS DETAIL WITH DOOR SUPPLIER - MODIFY AS REQUIRED - NOTIFY ARCHITECT



Date	Revisions
03/01/24	

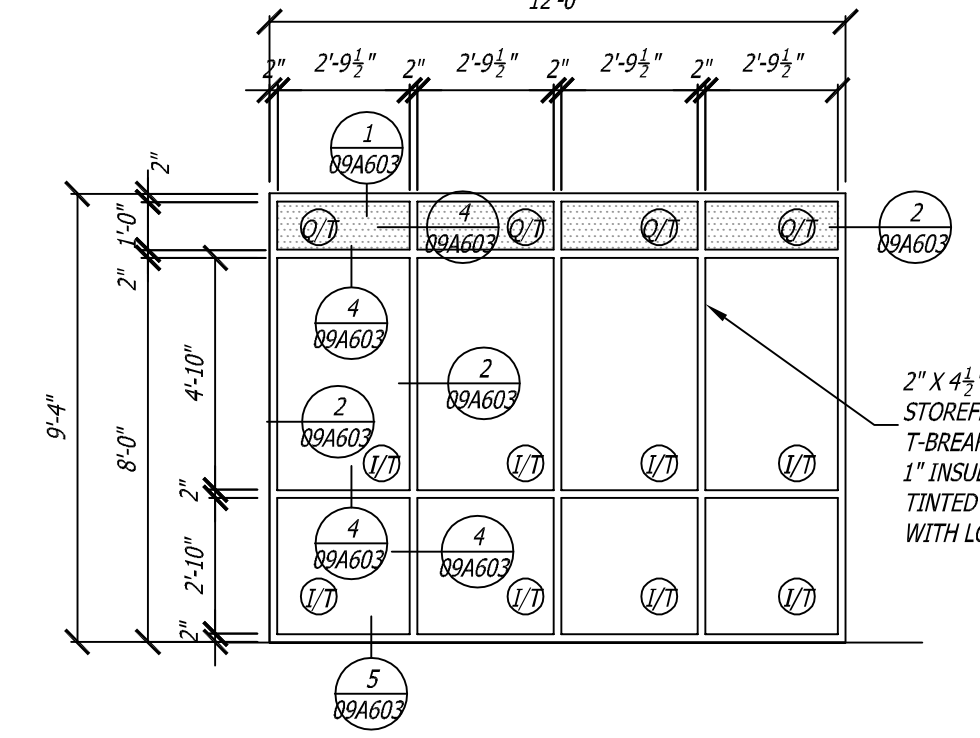
# WINDOW SCHEDULE

WINDOW TYPE	DIMENSIONS			DETAILS			GLAZING	REMARKS
	WIDTH	HEIGHT	THICK	HEAD	JAMB	SILL		
A	6'-8"	9'-4"	2" x 4 1/2"	1/09A603	2/09A603	5/09A603	1" INSUL W/ GUARDIAN SUNGARD #SNX-62/27 - GREY EXT TINT- CLEAR INT WITH LOW E	ALUMINUM STOREFRONT SYSTEM WITH THERMAL BREAK - FACTORY COLOR BLACK KYMAR 500 FINISH
B	6'-8"	6'-4"	2" x 4 1/2"	1/09A603	2/09A603	3/09A603	1" INSUL W/ GUARDIAN SUNGARD #SNX-62/27 - GREY EXT TINT- CLEAR INT WITH LOW E	ALUMINUM STOREFRONT SYSTEM WITH THERMAL BREAK - FACTORY COLOR BLACK KYMAR 500 FINISH
C	12'-0"	9'-4"	2" x 4 1/2"	1/09A603	2/09A603	5/09A603	1" INSUL W/ GUARDIAN SUNGARD #SNX-62/27 - GREY EXT TINT- CLEAR INT WITH LOW E	ALUMINUM STOREFRONT SYSTEM WITH THERMAL BREAK - FACTORY COLOR BLACK KYMAR 500 FINISH
D	4'-2"	6'-6"	2" x 4 1/2"	8/09A603	6/09A603	7/09A603	1/4" CLEAR SAFETY GLASS	CR LAURENCE CO (CRL) "DIANE PASS-THRU" - BLACK ANODIZED FINISH

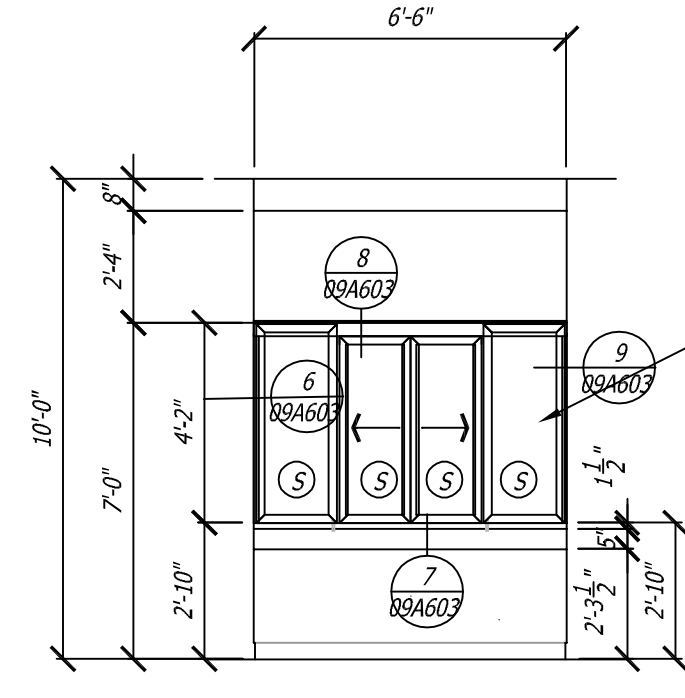


**WINDOW TYPE A**

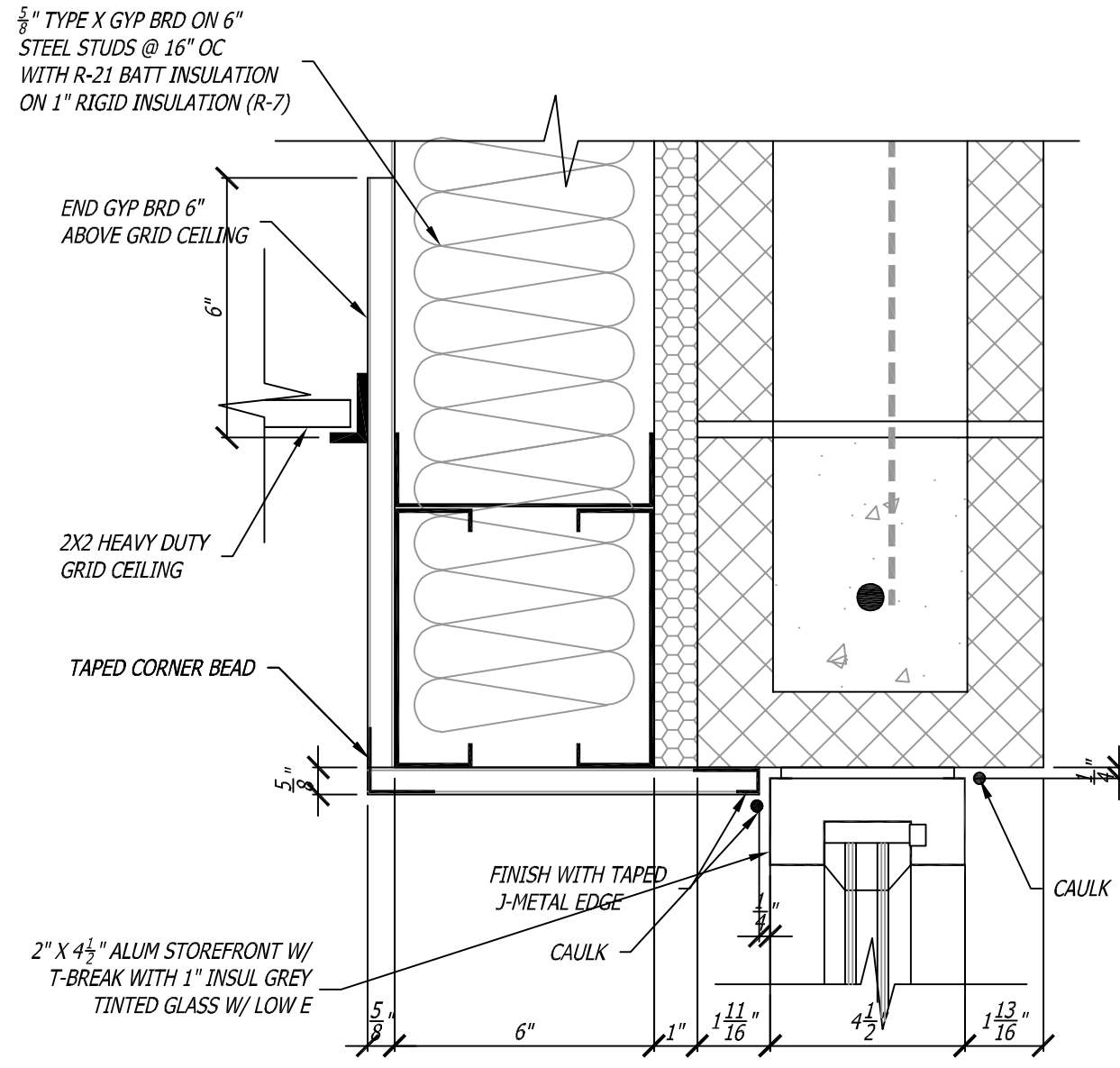
**WINDOW TYPE B**



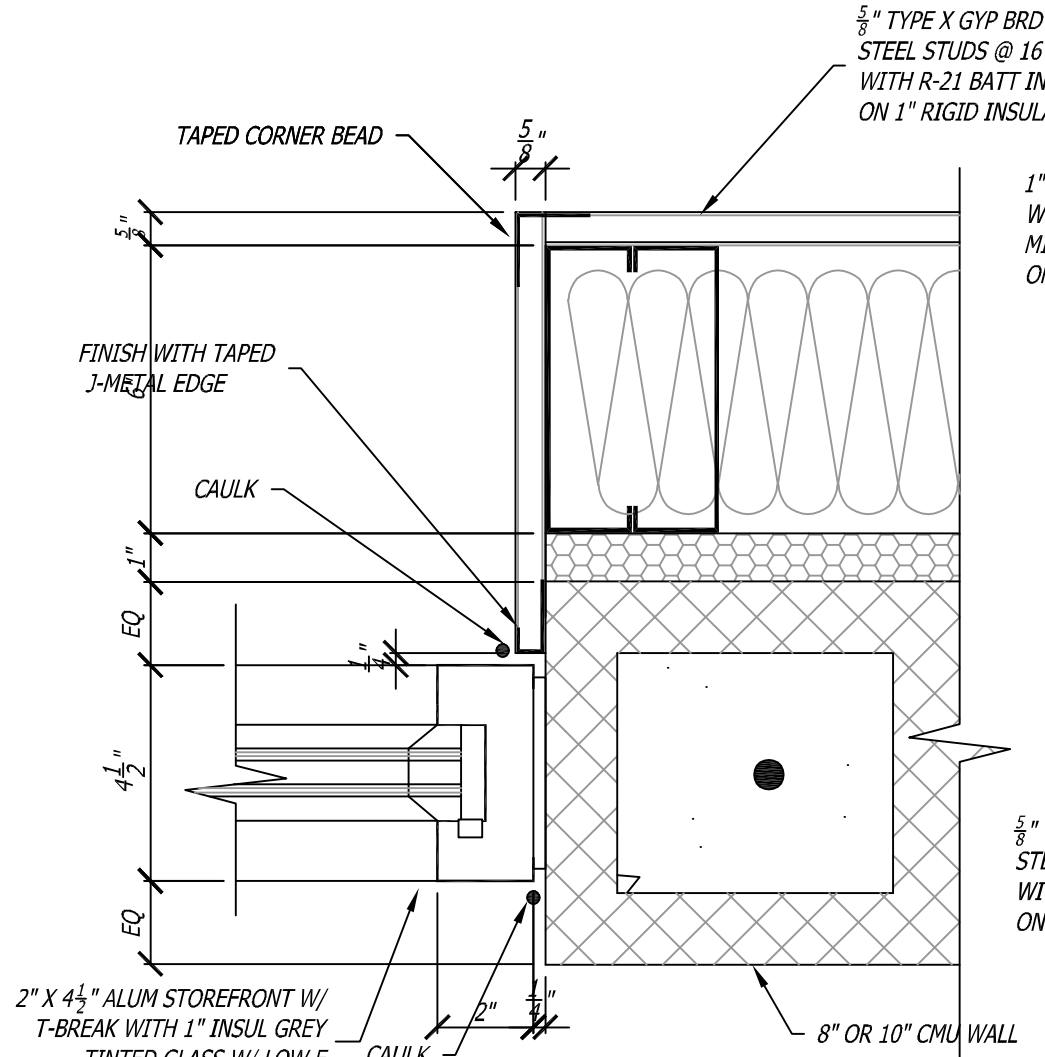
**WINDOW TYPE C**



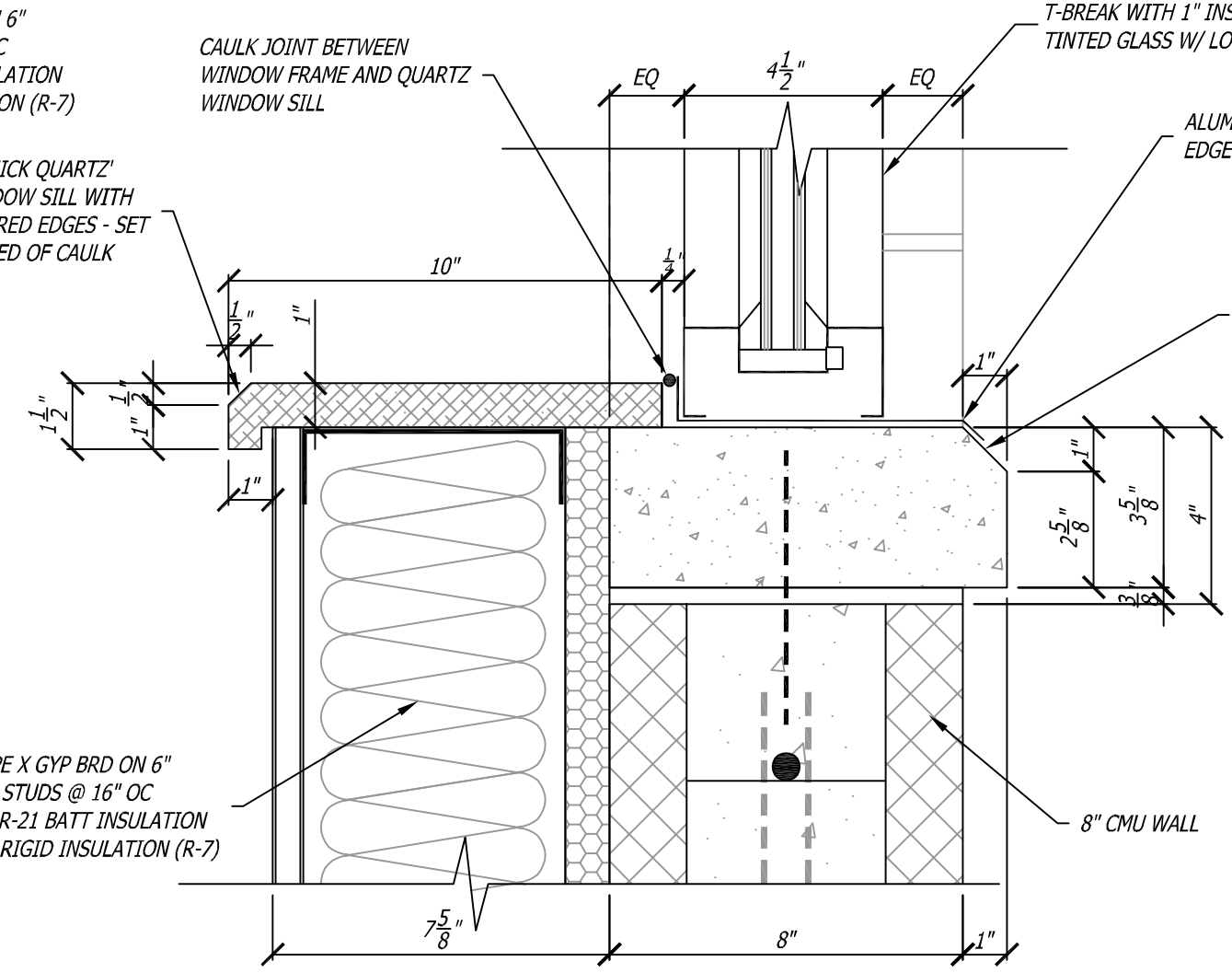
**WINDOW TYPE D**



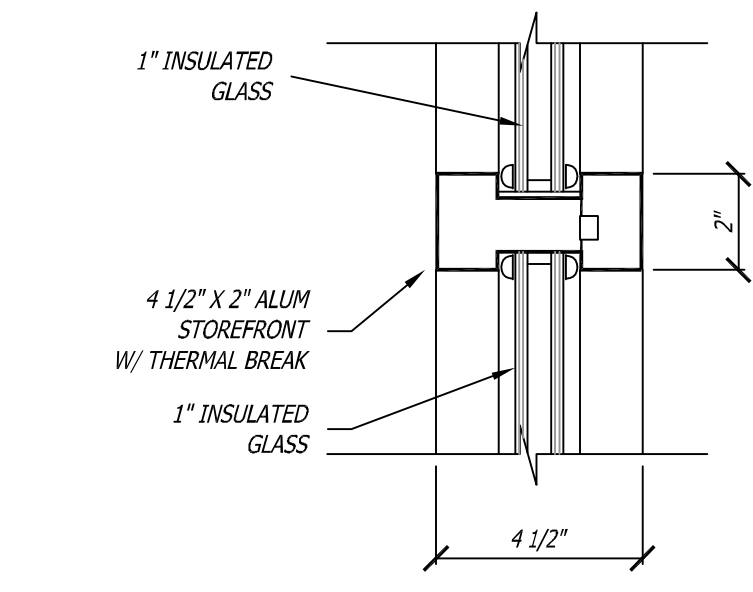
**1 EXTERIOR STOREFRONT HEAD**  
09A603 3" = 1'-0"



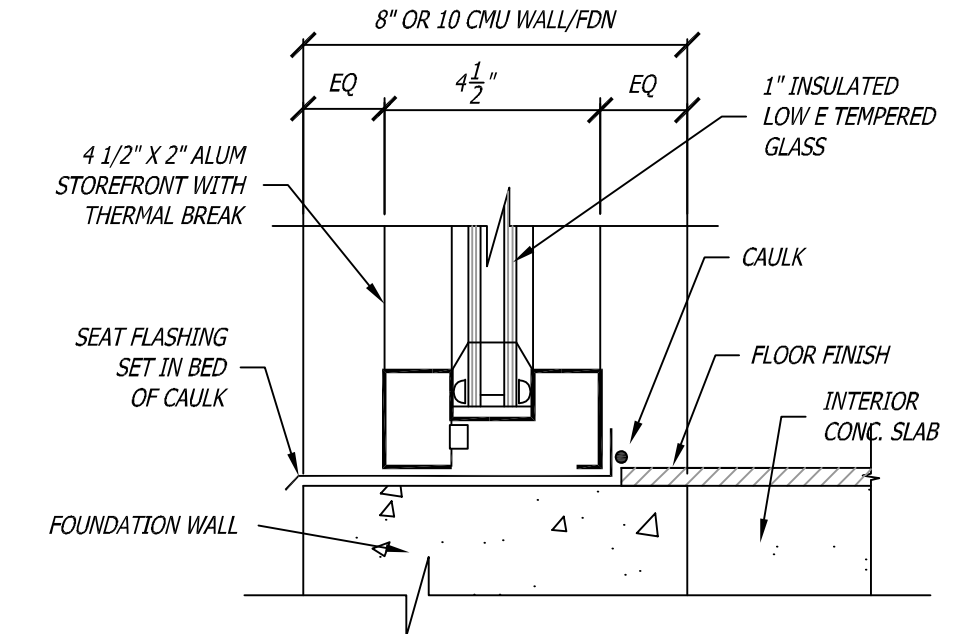
**3 EXTERIOR STOREFRONT JAMB**  
09A603 3" = 1'-0"



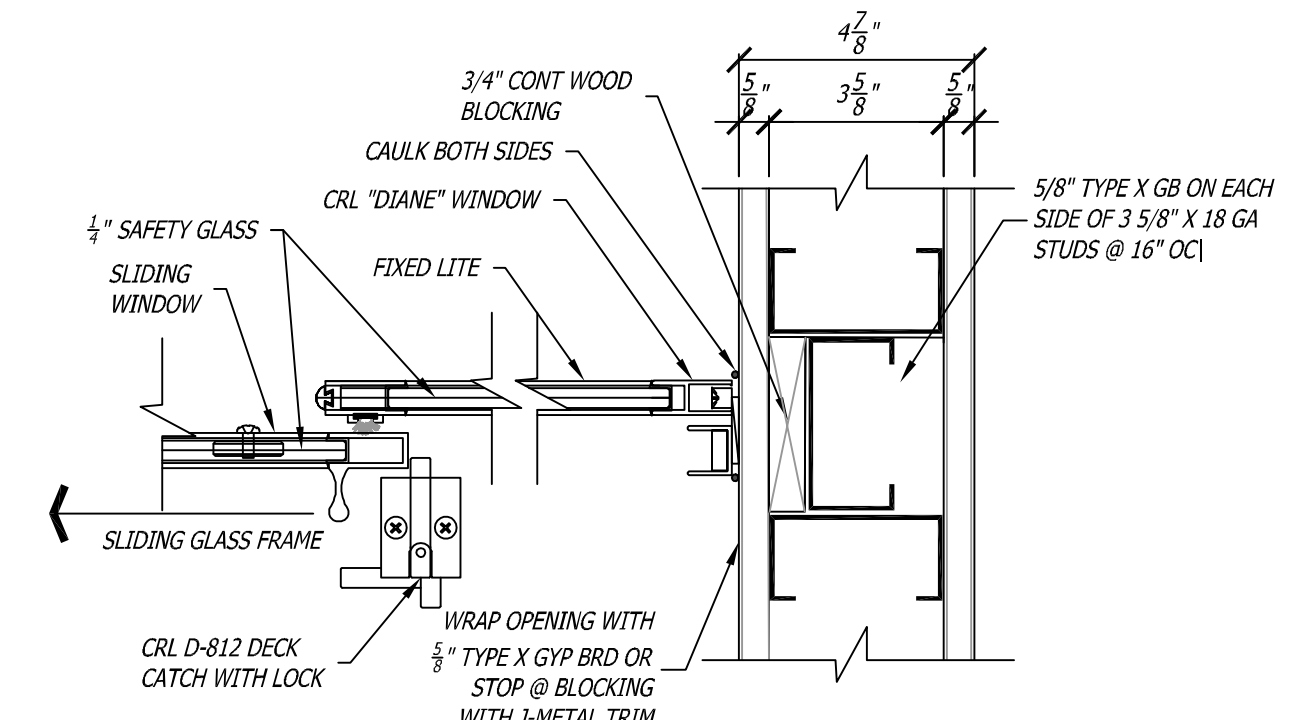
**3 EXTERIOR STOREFRONT WINDOW SILL**  
09A603 3" = 1'-0"



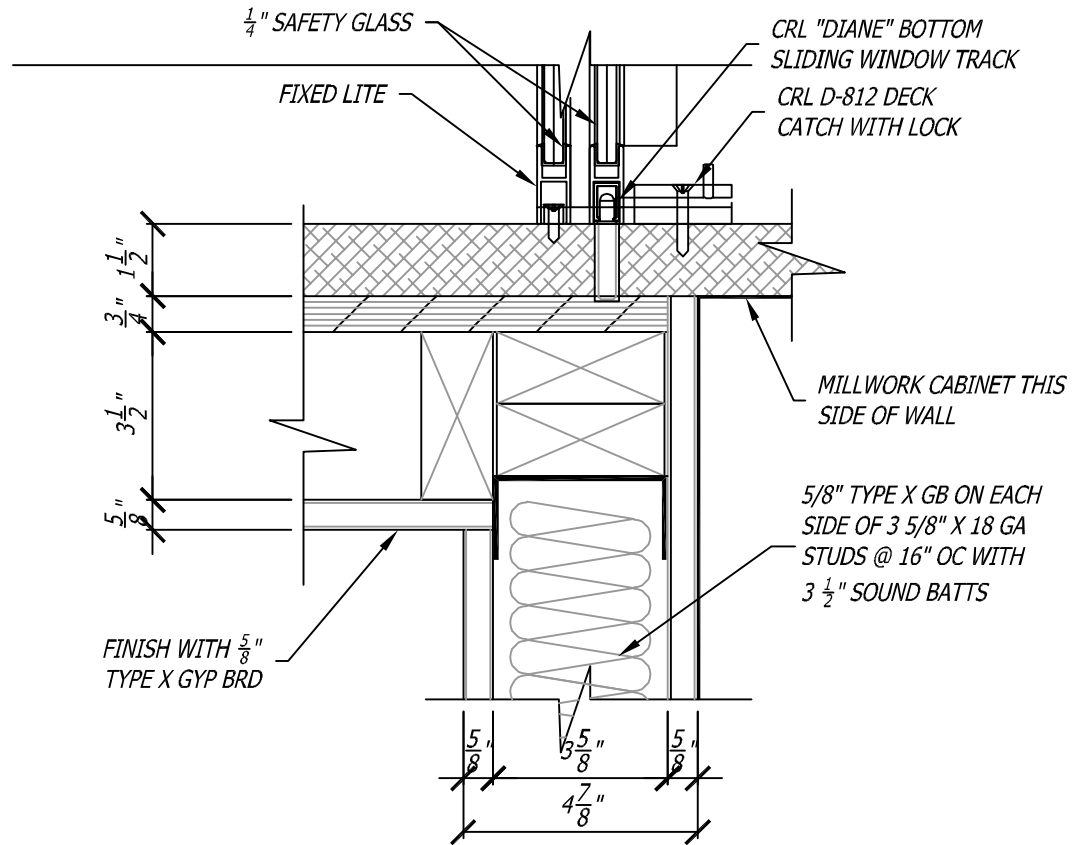
**4 EXTERIOR STOREFRONT MULLION**  
09A603 3" = 1'-0"



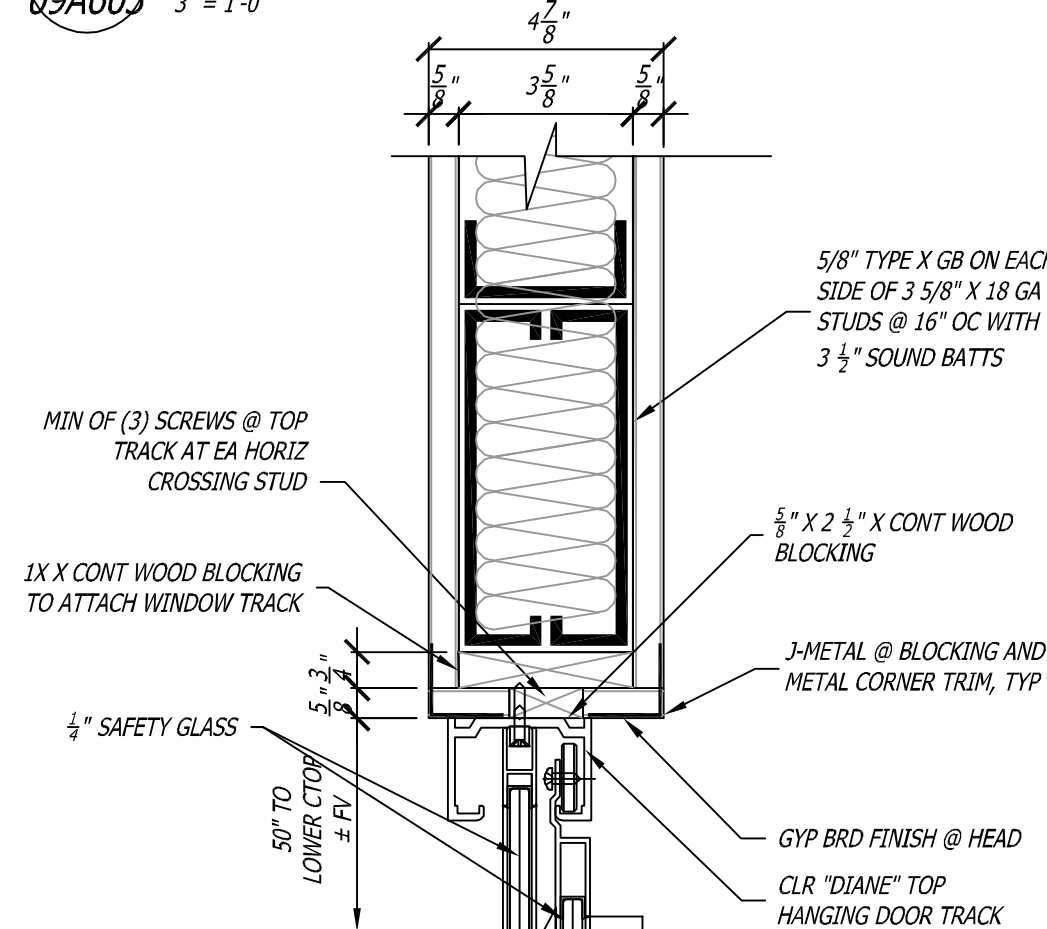
**5 TYPICAL STOREFRONT SILL**  
09A603 3" = 1'-0"



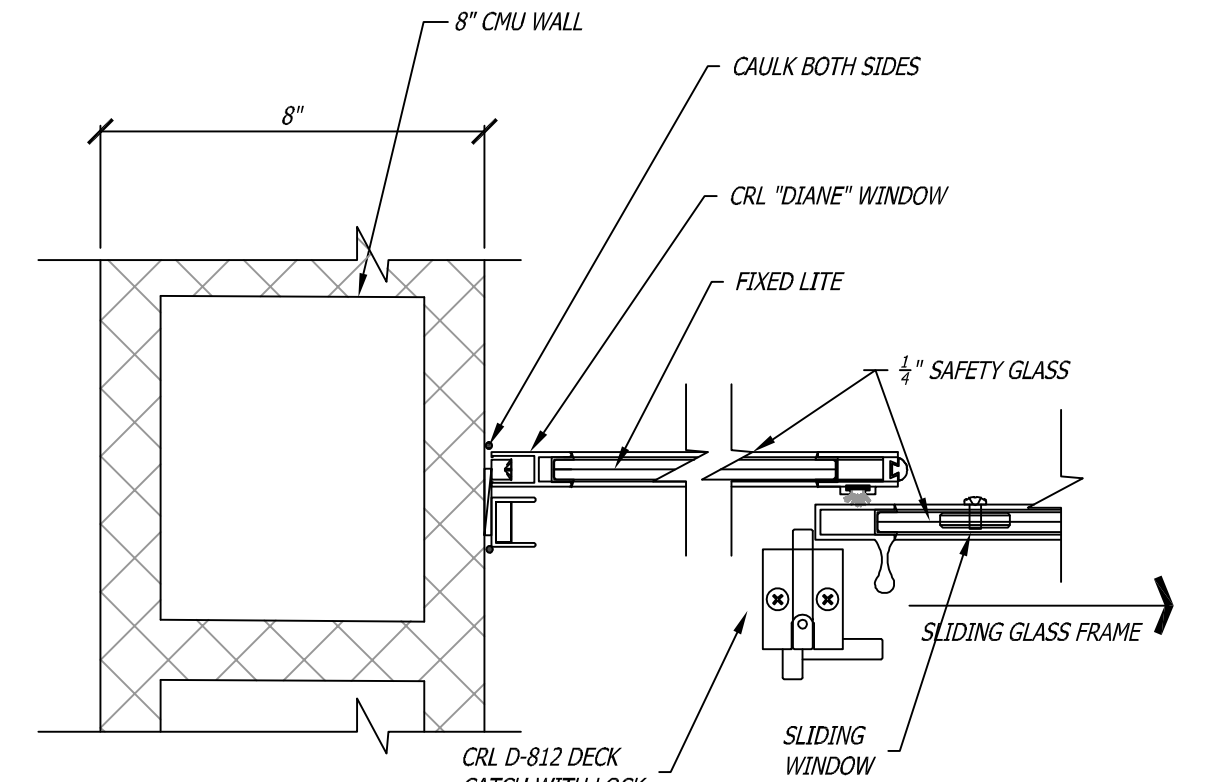
**6 CRL "DIANE" WINDOW TRACK JAMB**  
09A603 3" = 1'-0"



**7 CRL "DIANE" WINDOW TRACK SILL**  
09A603 3" = 1'-0"



**8 CRL "DIANE" WINDOW TRACK SOFFIT**  
09A603 3" = 1'-0"



**9 CRL "DIANE" WINDOW TRACK JAMB @ CMU**  
09A603 3" = 1'-0"

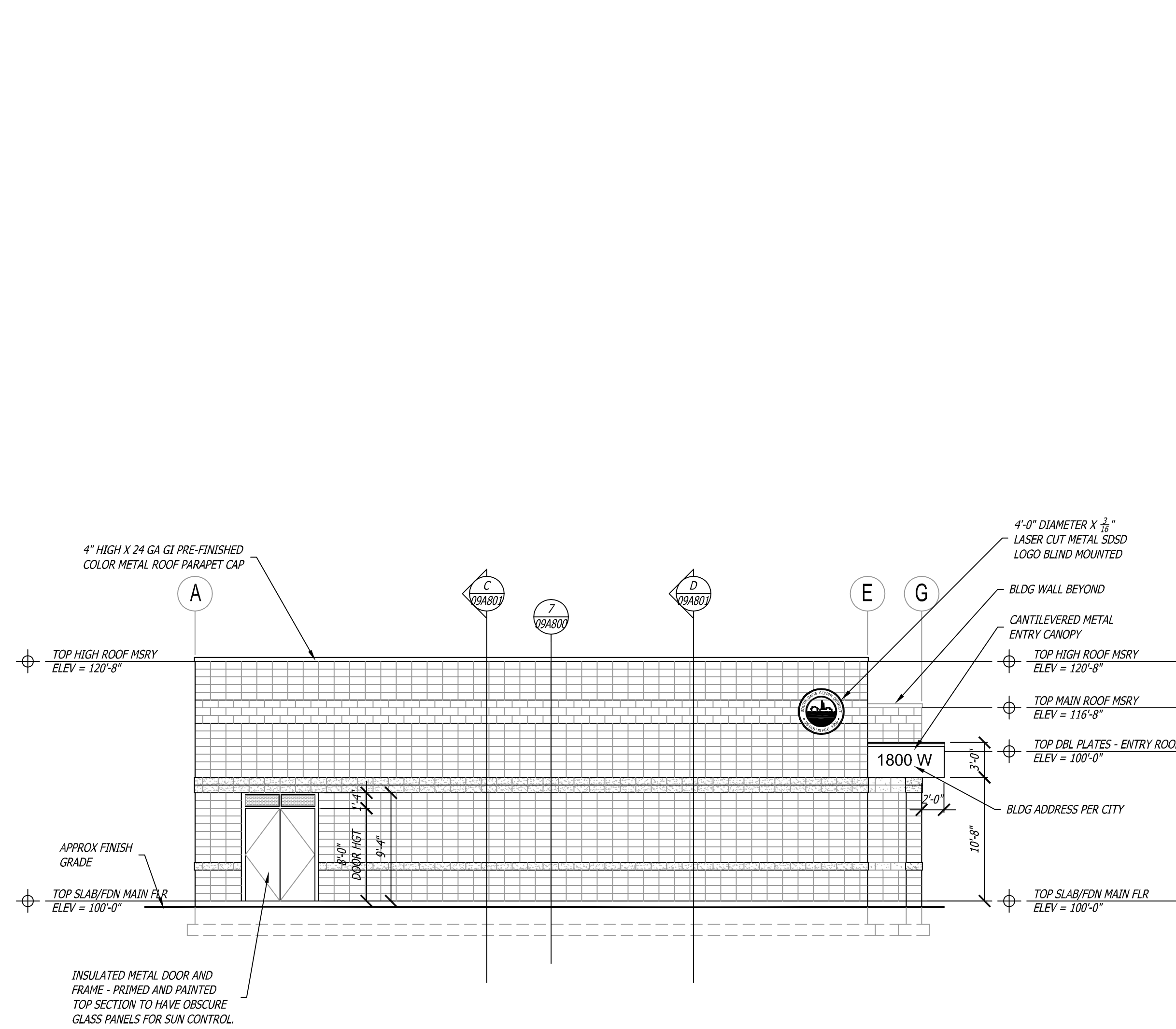
**James B. Glascock, Architect P.C.**  
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 18901 East Lark Drive  
 Queen Cree, Arizona 85142  
 801 - 860 - 8905 e-mail: jglascock@mtcon.net



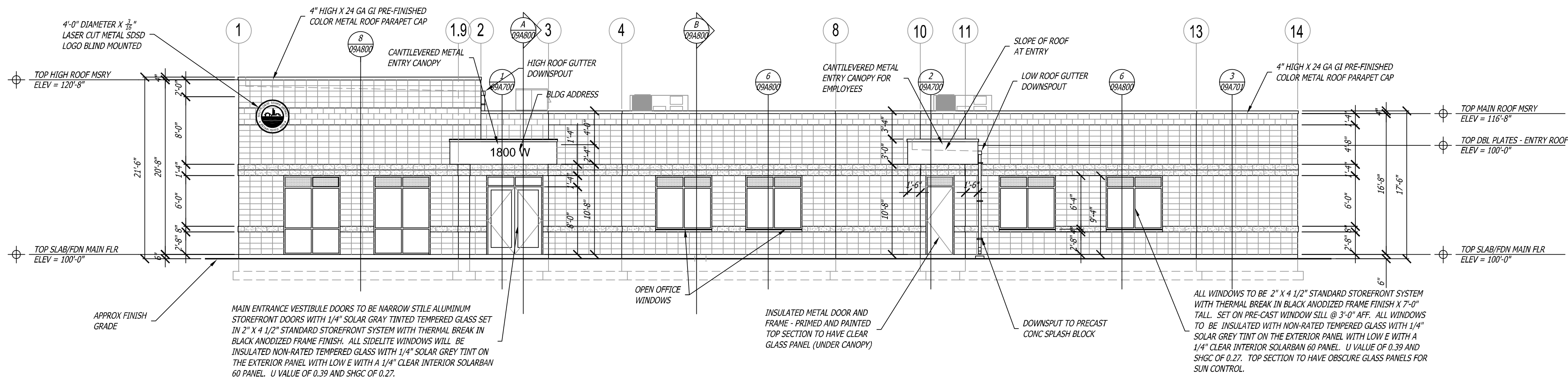
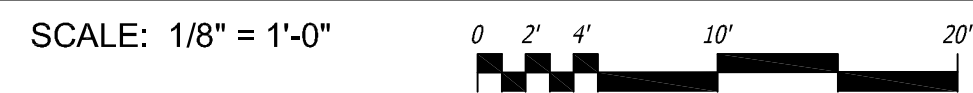
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 24-001  
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 SOUTH DAVIS SEWER DISTRICT  
 1800 WEST 1200 NORTH  
 WEST BOUNTIFUL, UTAH

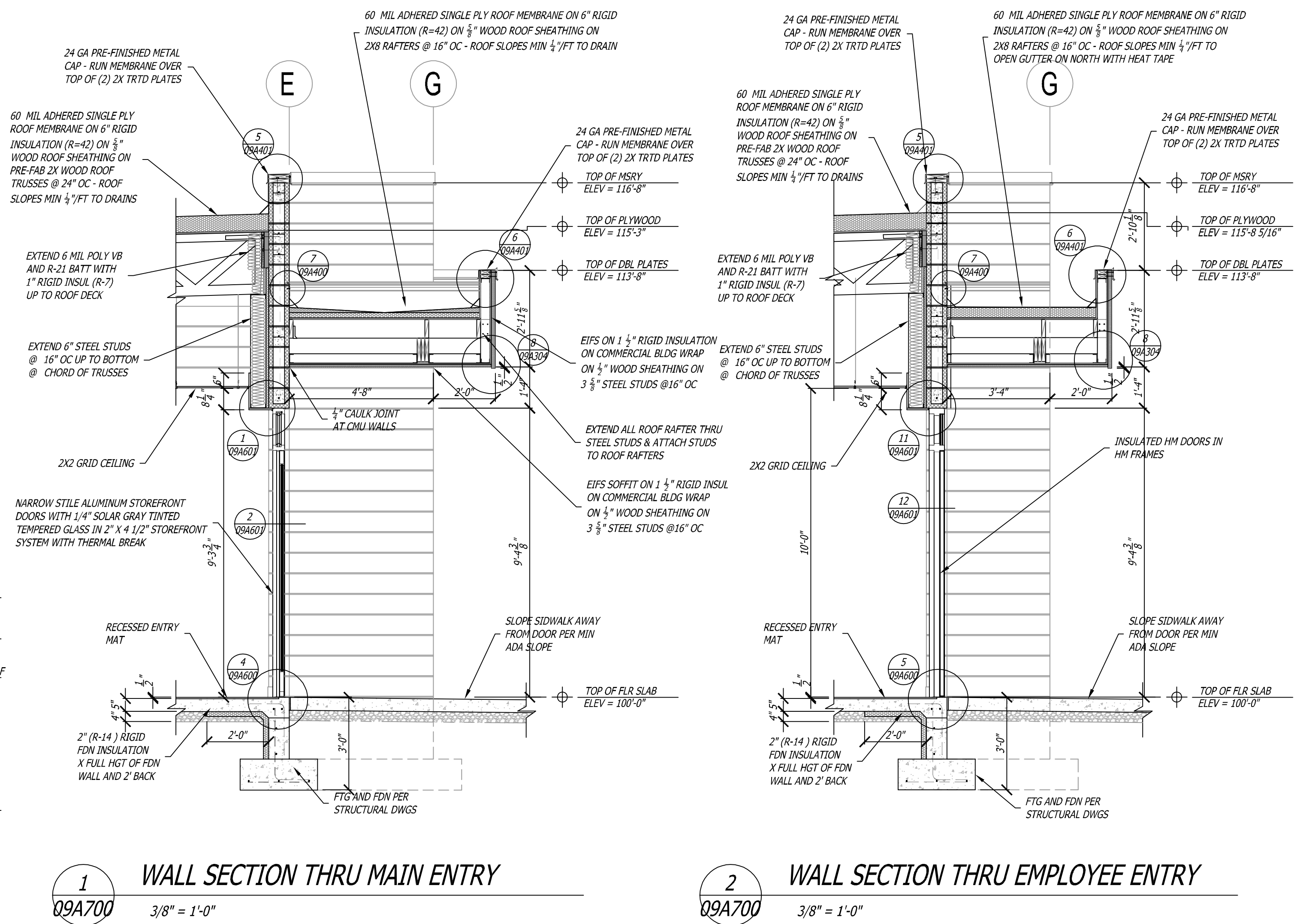
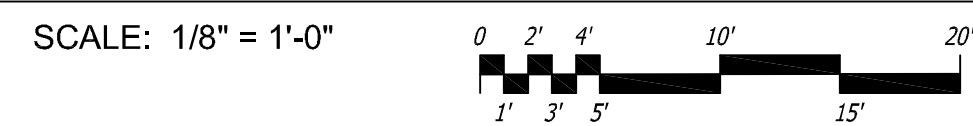
Date	Revisions
03/01/24	09A603



### SOUTH BLDG ELEVATION



### EAST BLDG ELEVATION



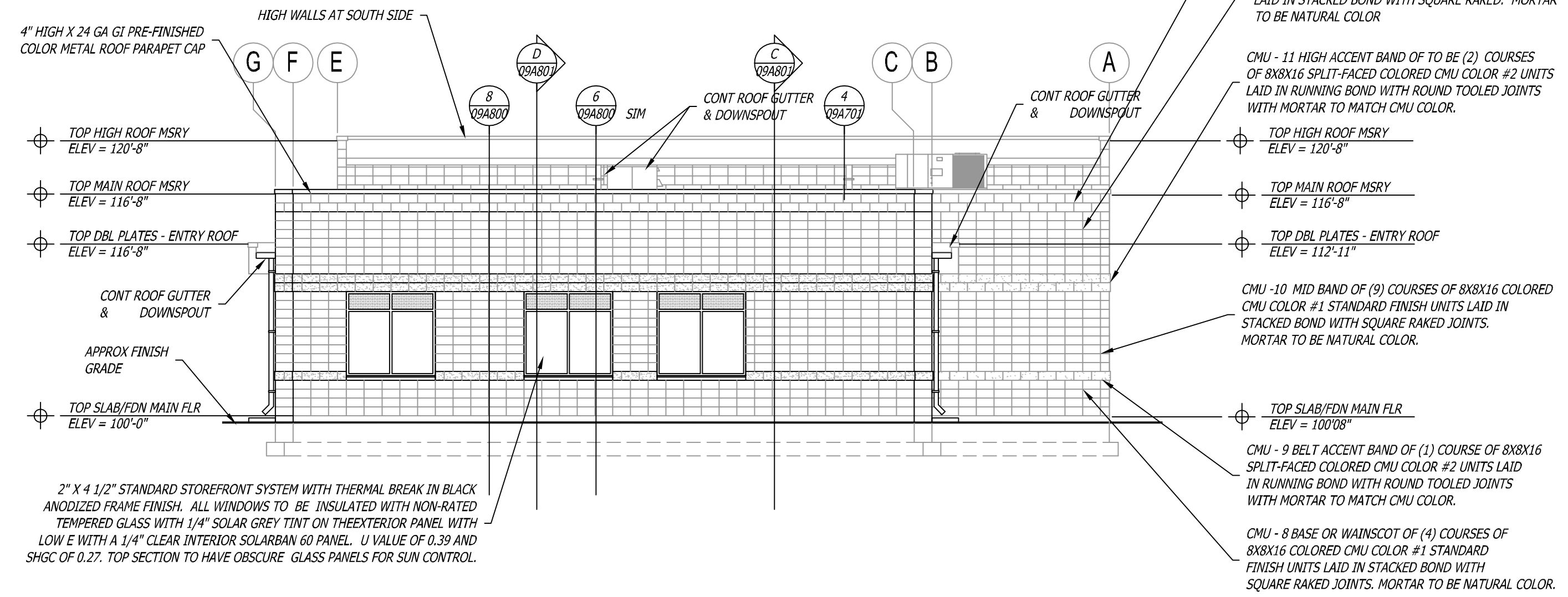
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 801 - 860 - 8905 e-mail: jglascock@mtcon.net



Project **24-001**  
**NORTH PLANT ADMINISTRATION OFFICE BUILDING**  
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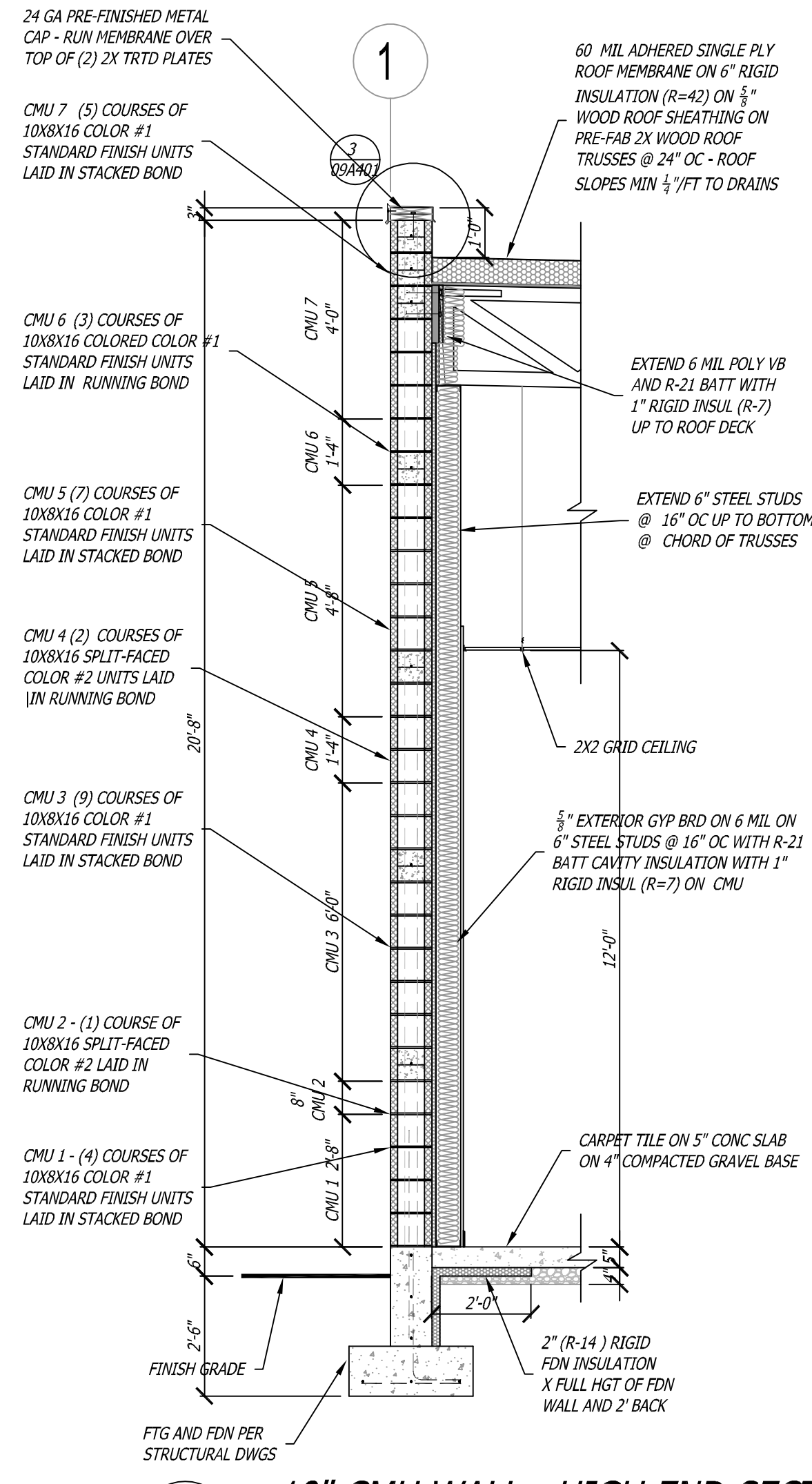
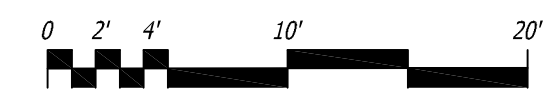
Date	03/01/24
Revisions	
Project No.	09A700

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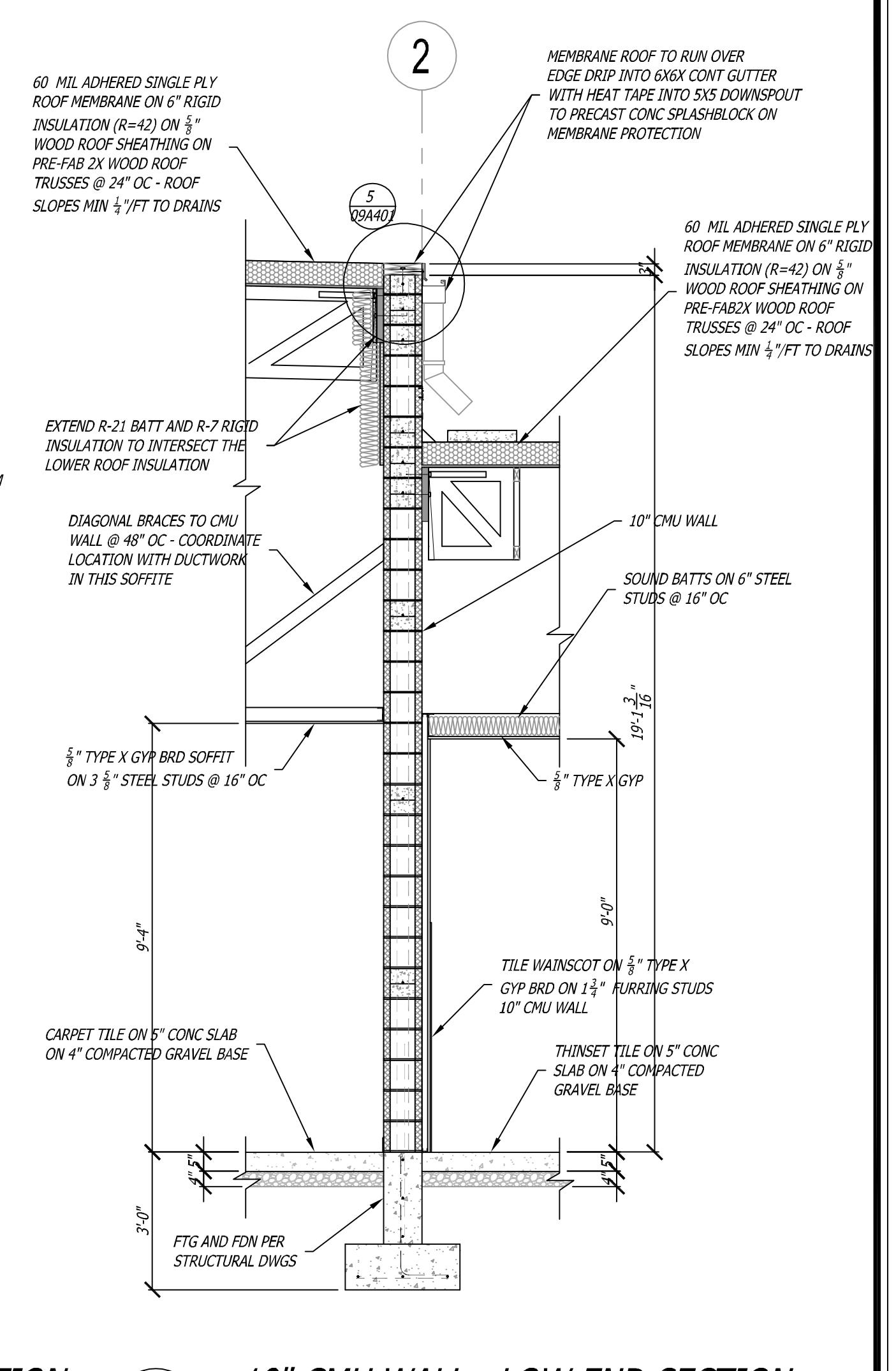


# NORTH BLDG ELEVATION

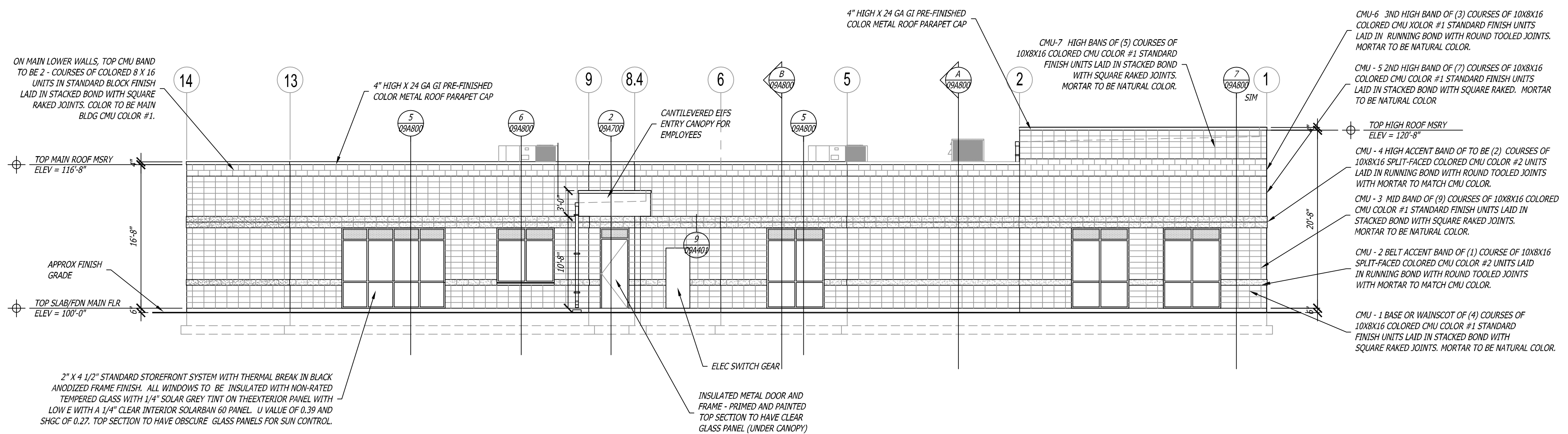
SCALE: 1/8" = 1'-0"



3 10" CMU WALL - HIGH END SECTION  
3/8" = 1'-0"

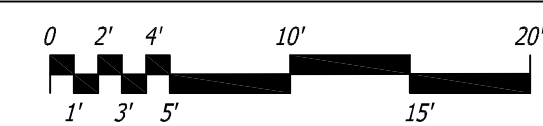


4 10" CMU WALL - LOW END SECTION  
3/8" = 1'-0"

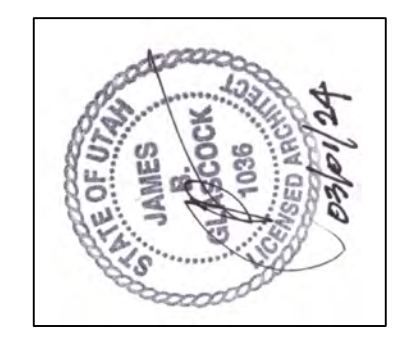


# WEST BLDG ELEVATION

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



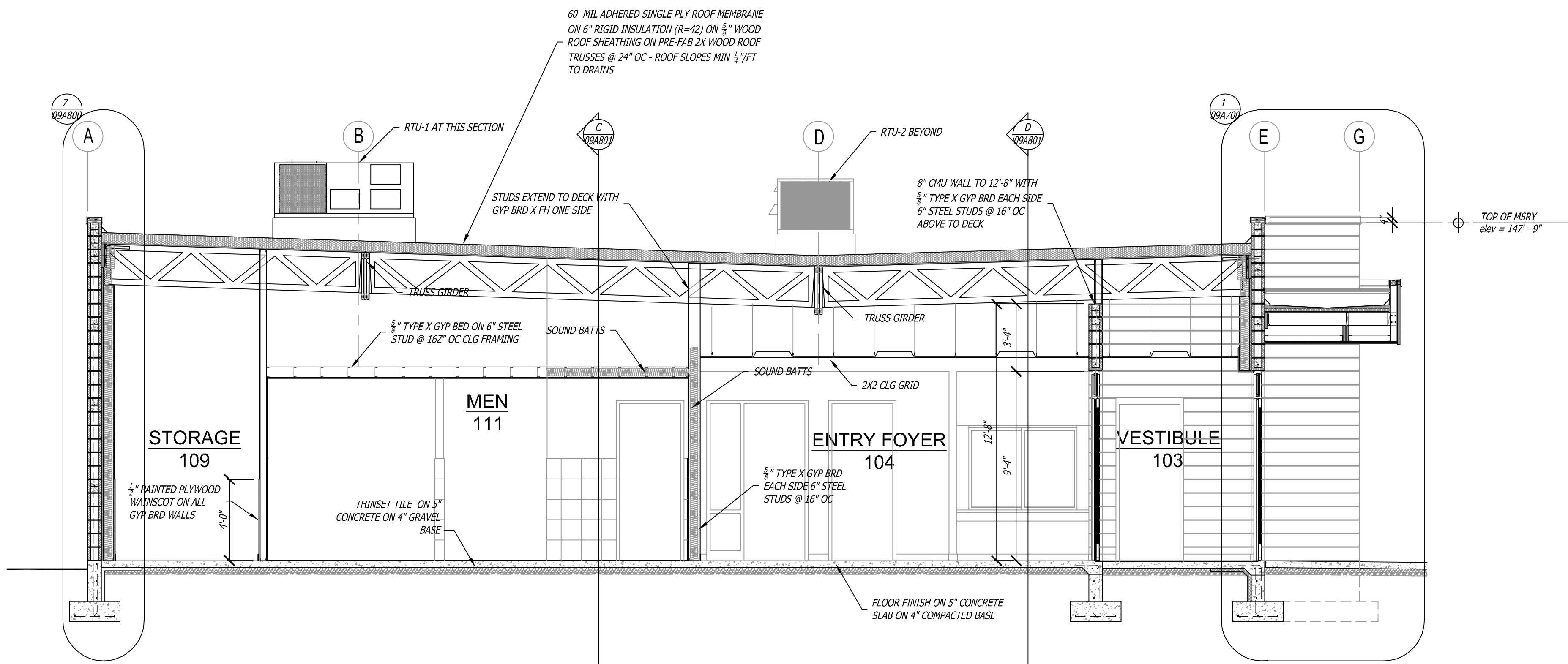
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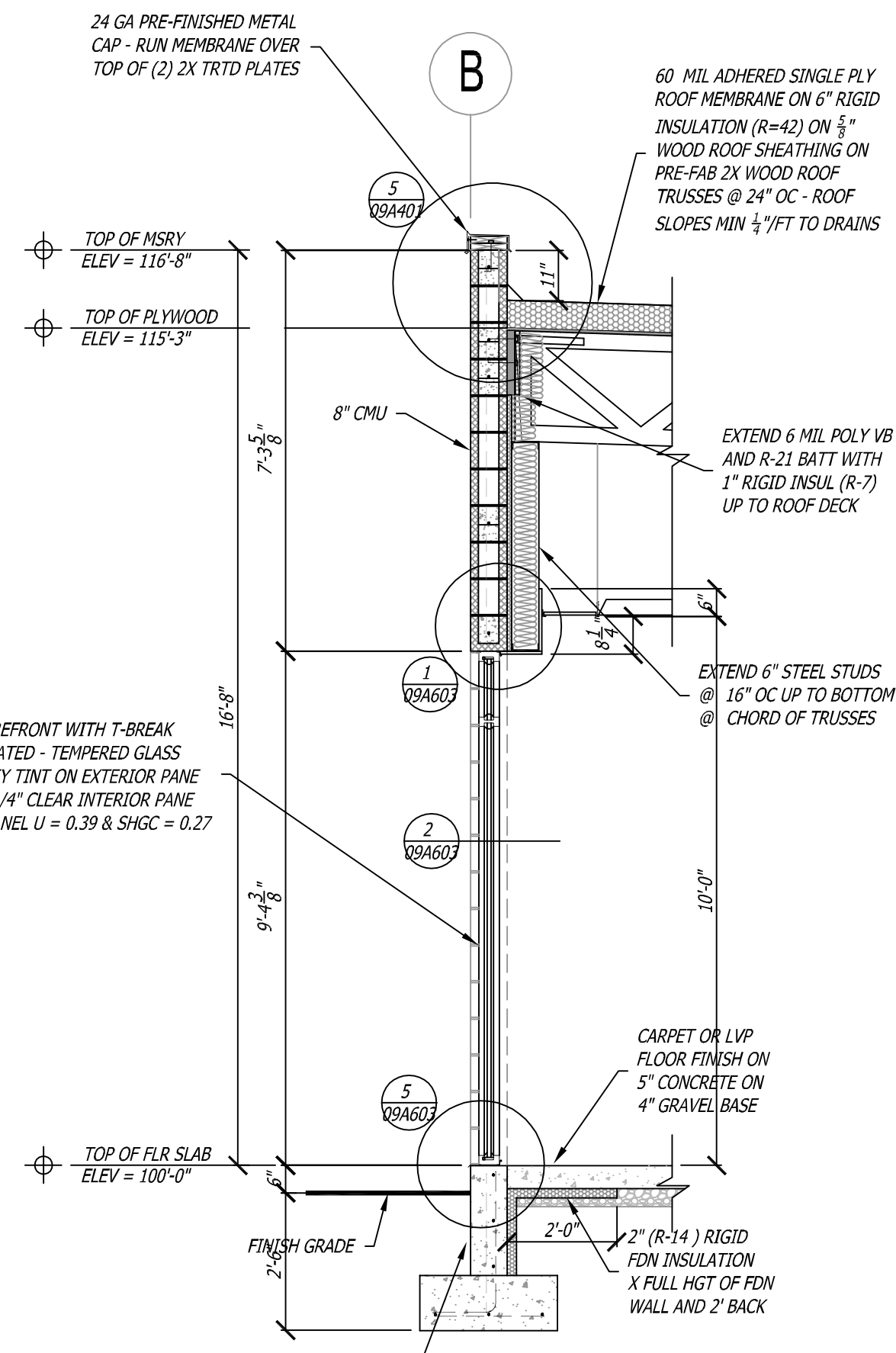
Project **24-001**  
**NORTH PLANT ADMINISTRATION OFFICE BUILDING**  
 SOUTH DAVIS SEWER DISTRICT  
 1800 WEST 1200 NORTH  
 WEST BOUNTIFUL, UTAH

Date	Revisions
03/01/24	09A701



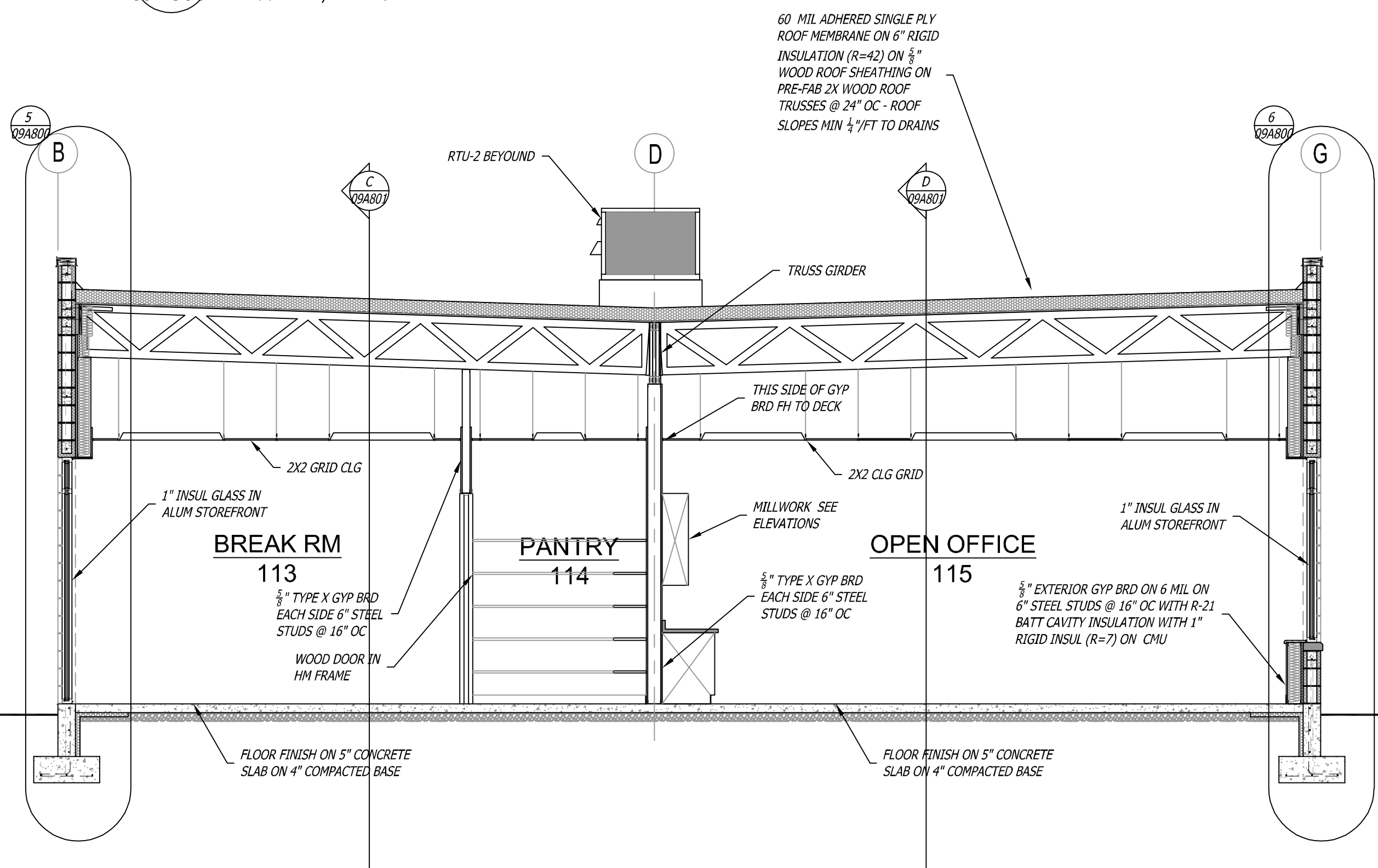
**A EAST - WEST BUILDING SECTION**

09A800 SCALE: 1/4" = 1'-0"



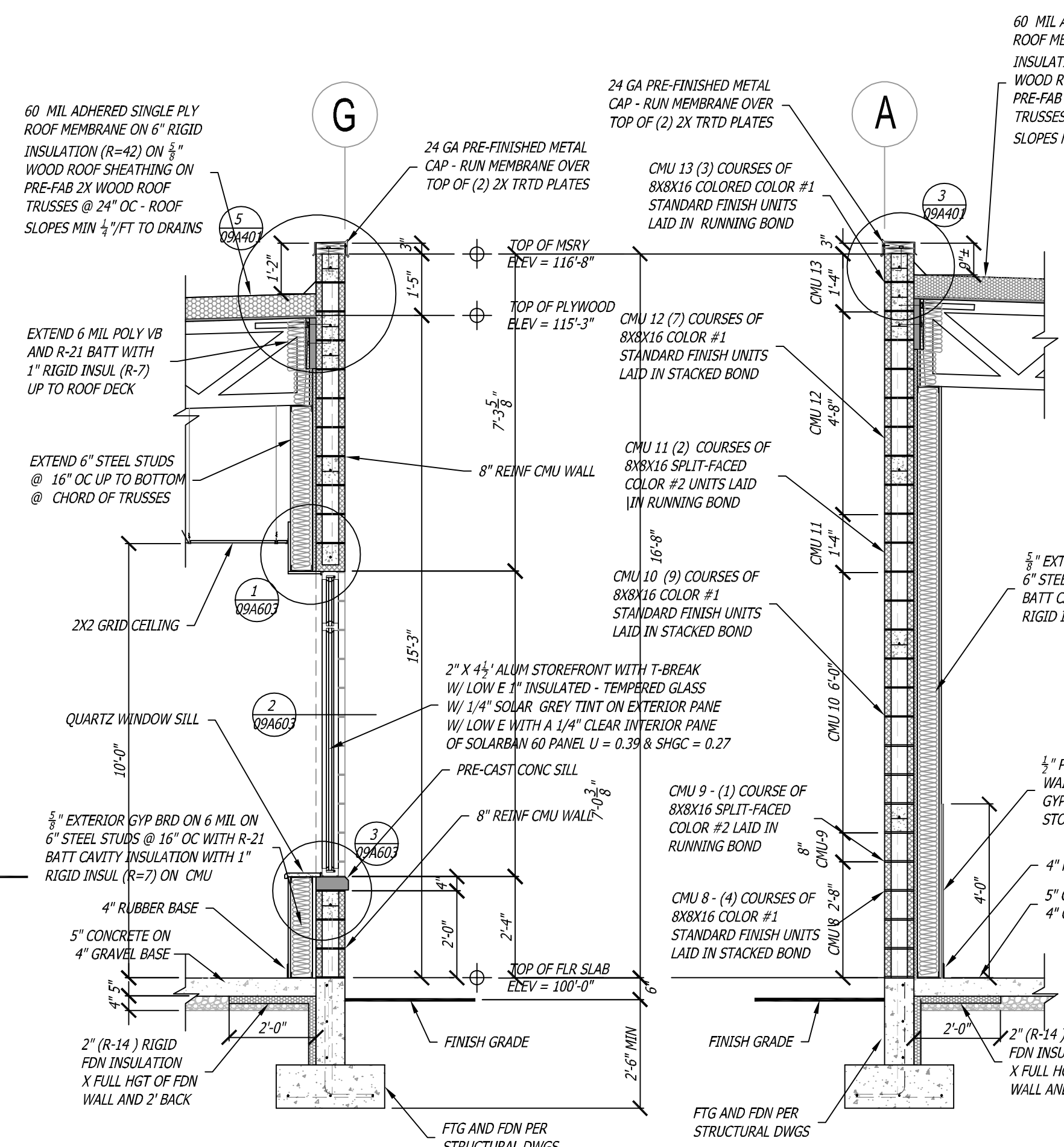
**5 TYPICAL WALL SECTION**

09A800 3/8" = 1'-0"



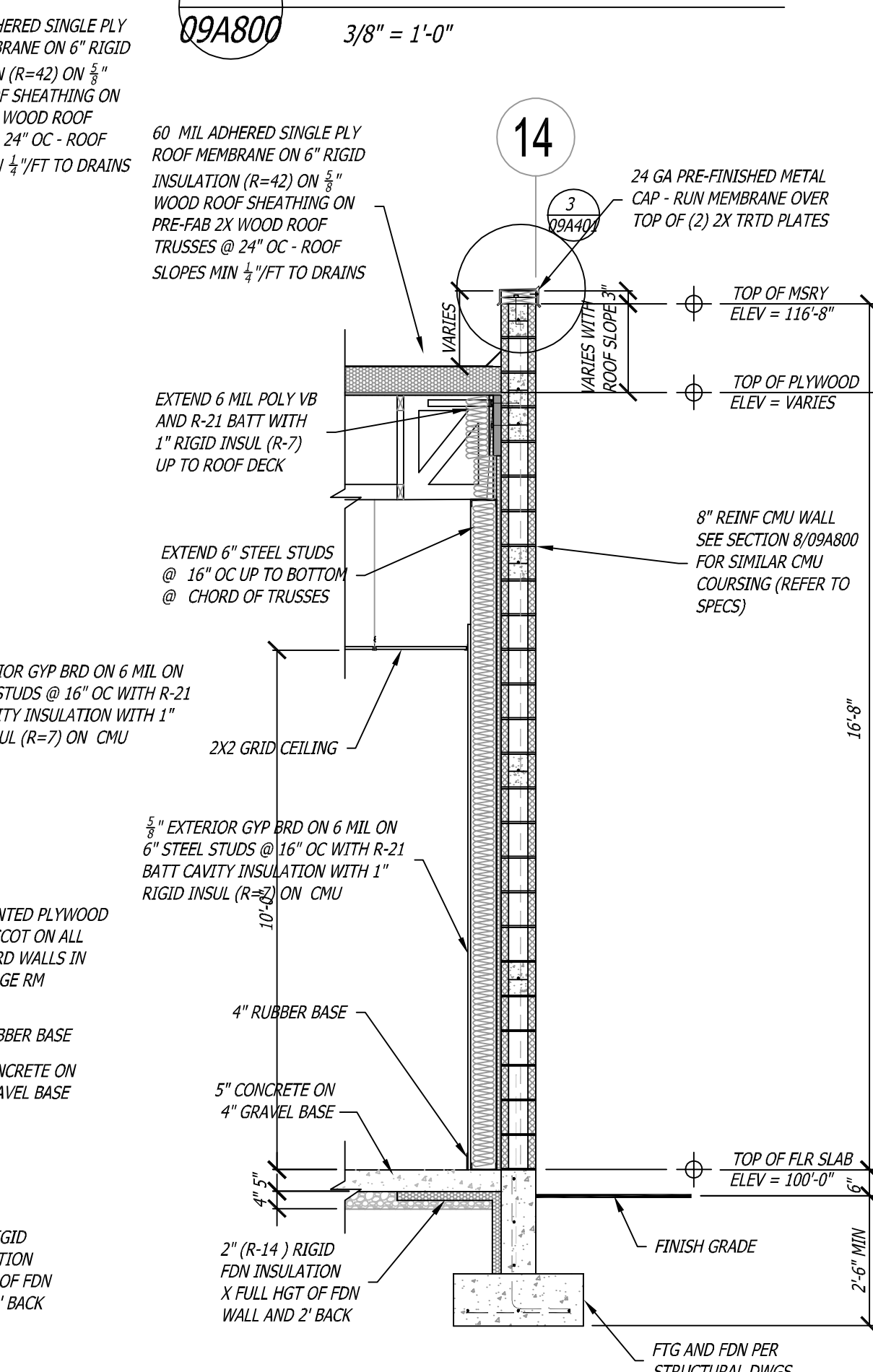
**B EAST - WEST BUILDING SECTION**

09A800 SCALE: 1/4" = 1'-0"



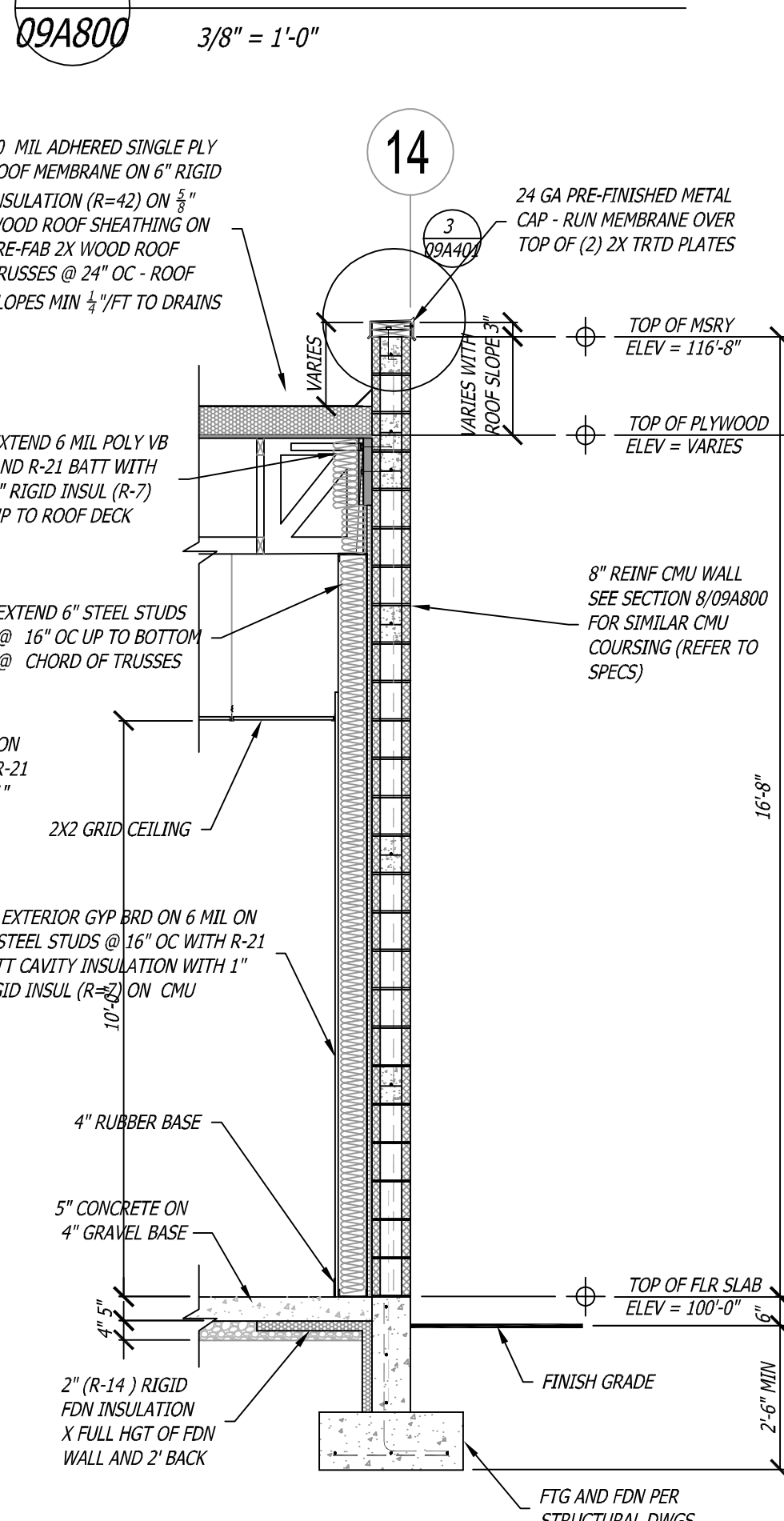
**6 TYPICAL WALL SECTION**

09A800 3/8" = 1'-0"



**7 TYPICAL WALL SECTION**

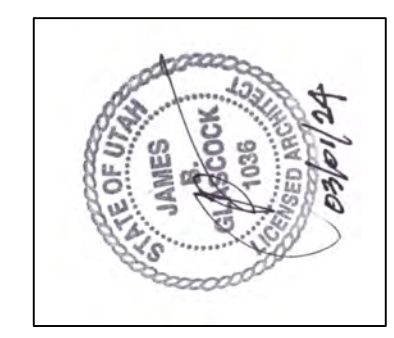
09A800 3/8" = 1'-0"



**8 TYPICAL WALL SECTION**

09A800 3/8" = 1'-0"

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**Project 24-001**  
**NORTH PLANT ADMINISTRATION OFFICE BUILDING**  
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 1800 WEST 1200 NORTH  
 WEST BOUNTIFUL, UTAH

Date	Revisions
03/01/24	09A800





# POST-INSTALLED ANCHORS

- Follow all ICC Evaluation Report and manufacturers' requirements and recommendations for post-installed anchor installation. Where conflicts may exist, the most stringent requirement applies.
- All holes in hollow, brick, or stone masonry shall be drilled in the "rotary-only" mode with the hammer function off.
- Follow manufacturer and ICC evaluation report requirements for installation temperature of adhesive anchors. Adhesive anchors shall not be installed or cured outside of approved temperature ranges.
  - Adhesive anchors in concrete shall be
    - HIT RE-500 SD by Hilti (ESR-2322) - normal weight concrete only
    - SET-XP by Simpson (ESR-2508)
    - PE1000+ by Powers Fasteners (ESR-2583) - 1/2" to 7/8" diameter only
  - Adhesive anchors in grouted masonry shall be
    - HIT HY-150 MAX by Hilti (ESR-1967)
    - SET by Simpson (ESR-1772)
  - Adhesive anchors in brick or stone masonry shall be
    - HIT HY-20 by Hilti (ESR-4815)
    - SET by Simpson (ESR-1772)
    - CIA-GEL 7000 Epoxy by USP (ESR-1702)
- Mechanical (Expansion) anchors
  - Mechanical anchors in concrete shall be
    - Kwik Bolt TZ by Hilti (ESR-1917)
    - Strong-Bolt by Simpson (ESR 1771)
    - Trubolt+ by ITW Redhead (ESR-2427)
  - Mechanical anchors in grouted masonry shall be
    - Kwik Bolt 3 by Hilti (ESR-1385)
- The Contractor may submit, for review and approval, the manufacturer's ICC evaluation report of alternate anchor systems. The alternate method shall provide minimum capacities equal to or greater than those in the above noted anchors. The alternate method shall be approved by the engineer of record prior to the substitution.
- Special Inspection and Testing
  - Special inspection shall be performed according to the requirements of the ICC evaluation report, per section 1704.13 of the IBC.
  - Testing shall be done according to the more stringent requirements of the ICC evaluation report and the values listed below.
    - Adhesive Anchors in Concrete or Solid Grouted Masonry: 50% of anchors in non-redundant elements (e.g. column, brace connections, boundary steel, hold-downs) and 10% of anchors in redundant elements shall be tension tested at the following load(s):
      - Adhesive Anchors in Solid Brick Masonry: Tension test 5% of all anchors to 3000 lbs. Hold load for five minutes. Torque test 25% of all anchors with a calibrated wrench to 60 foot-pounds.
      - Mechanical anchors shall be tension tested to twice the allowable tension load listed in the ICC evaluation report.

# WOOD

- Materials
  - Dimension Lumber and Timbers (Sawn Lumber)
    - All dimensioned lumber shall comply with USDOC PS20.
    - Visually graded dimension lumber shall be Douglas Fir-Larch #2 or better.
    - Visually graded timbers (5" x 5" and larger) shall be Douglas Fir-Larch #1 or better.
    - Machine stress rated (MSR) lumber shall be 1600f-1.6E or better.
    - End jointed lumber may be used interchangeably with solid sawn members of the same species and grade with written approval from the Engineer.
  - Wood Structural Panel Sheathing
    - Wood sheathing shall be APA rated sheathing Exposure 1 unless noted otherwise and shall conform to the requirements for its type in USDOC PS1 or USDOC PS2. The panels must be identified by the trademarks of the approving testing and inspection agency.
    - Wood sheathing minimum thicknesses, span ratings, and nailing requirements shall be as indicated in the Roof and Floor Sheathing Schedule, unless noted otherw
      - Wood sheathing shall have the following minimum thicknesses and span ratings, unless noted otherwise:
 

	Roof	Floor	Wall
	15/32"(32/16), 19/32"(40/20)	23/32"(48/24)	15/32"(32/16), 7/16"(24/16)
      - Nails or other approved fasteners used to connect sheathing to the structure shall be driven such that their head or crown is flush with the surface of the sheathing. Do not overdrive fasteners.
- Connection Hardware
  - All connection hardware shown shall be supplied by Simpson Strong-Tie Incorporated or USP structural connectors.
  - Install all hardware per the manufacturer's guidelines.
  - Connection hardware of equal design properties by other manufacturers may be substituted with written approval from the Engineer.
- All fasteners in contact with pressure-treated or fire-treated wood shall be hot-dipped zinc-coated galvanized or stainless steel.
- All wood in contact with concrete, masonry or soil shall be pressure treated or redwood.
- General framing and carpentry shall be connected as per "THE MINIMUM NAILING SCHEDULE" unless noted otherwise.

# MASONRY

- Materials, unless noted otherwise:
  - Concrete Masonry Units (CMU): Lightweight Grade N, Type 1 (minimum unit strength of 1900 psi) Fm = 1500 psi
  - Hollow Clay Units: Hollow Brick, Grade I (minimum unit strength of 3,000 psi) Fm = 1800 psi
  - Solid Clay Units: Grade SW (minimum unit strength of 3000 psi) Fm = 1800 psi
  - Mortar: Type "S" 1800 psi compressive strength.
  - Grout shall attain a minimum compressive strength of 2000 psi at 28 days.
  - Reinforcing Steel ASTM 615 Grade 60 (Fy = 60 ksi)
  - Wire Joint Reinforcing ASTM A 951
  - Deformed Bar Anchors (DBA) ASTM A496
  - Headed Stud Anchors (HSA) ASTM A108
  - Anchor Bolts ASTM A307 with ASTM A563 heavy hex nuts with ASTM F436 hardened washers unless noted otherwise.
- Detailing Requirements:
  - Standards: Reinforcing detailing shall comply with American Concrete Institute (ACI) Stadard 315, "Details and Detailing of Concrete Reinforcement."
  - Reinforcement shall have the following cover:
    - Joint reinforcement shall have not less than 5/8" mortar coverage from the exposed face.
    - Other reinforcement shall have a minimum coverage of one bar diameter over all the bars, but not less than 3/4". When masonry is exposed to soil, minimum coverage shall be 1 1/2".
  - Lap all masonry reinforcing according to the "Masonry Reinforcing Bar Lap Splice Schedule" contained in the contract documents.

Lap all masonry reinforcing per bar size as follows:

Required lap lengths for single bars centered in each cell:		
#3 = 18"	#6 = 43"	#9 = 82"
#4 = 22"	#7 = 60"	
#5 = 26"	#8 = 72"	

Required lap lengths for 2 bars per cell with 2 1/2' cover:		
#3 = 18"	#6 = 54"	#9 = 82"
#4 = 22"	#7 = 63"	
#5 = 32"	#8 = 72"	

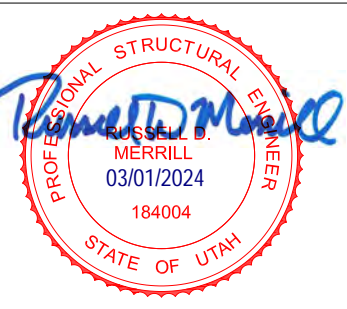
- Joint reinforcement shall lap a minimum of 6".
  - All vertical reinforcing shall be doweled to the structure below (foundation wall, footing, etc) with the same size dowel, spacing (and in the same core) as the vertical wall reinforcing above.
  - Corner Bars: Horizontal reinforcing shall be continuous at all corners and at intersecting walls. Provide corner bars with the required lap splice length.
  - Wall openings 24" wide and wider: For unscheduled openings, provide reinforcing on all sides as shown in the details. Also, for all openings, provide horizontal bar at bottom of opening as shown in the details. Vertical bars shall extend from floor level below to the floor, or roof level above. Horizontal bars for all openings shall extend a minimum of 48 bar diameters beyond the corners of the opening. Where a 48 bar diameter extension is not possible, extend bars as far beyond the opening as possible and terminate the bar(s) with a 90 degree standard ACI hook.
  - Horizontal reinforcing shall terminate with a standard hook at edge of openings and ends of walls without corner bars as shown in the details.
  - Horizontal wall reinforcing shall terminate with a standard 180 degree hook at each side of control joints except at floor and roof levels, lintels, beams, and at top of parapets as shown in the details.
  - All masonry column ties shall terminate with 135 degree hooks plus a 6 bar diameter extension (4" minimum).
- Construction Requirements:
    - All units shall be laid with full mortar beds on the face shells. All head joints shall be filled solidly with mortar for a distance in from the face of the units not less than the thickness of the longitudinal-face shells. Cells which are to be grouted shall have full head joints.
    - Masonry walls, beams, and columns shall be constructed with running bond, unless noted otherwise.
    - All cells containing reinforcement, embeds, anchor bolts, etc. shall be filled solid with grout. Grout shall be placed by mechanical vibration during placing and re-vibrated after excess moisture has been absorbed but before workability is lost. Puddling or rodding of grout is not allowed.
    - Where walls are not grouted solid, each grout pour shall terminate flush with the top of the uppermost unit except at cells with vertical reinforcing where the grout shall be 1 1/2" below top of unit to provide construction key.
    - Grout pours shall be limited to 4'-0" unless high lift grouting procedures are followed.
    - All masonry below grade shall be solid grouted.
    - Solid grouting of walls is unacceptable except where specifically noted.
    - Vertical cells to be filled with grout shall have vertical alignment sufficient to maintain a clear, unobstructed vertical cell measuring not less than 2" by 3".
    - Vertical steel reinforcement shall be placed and secured against displacement prior to grouting by wire positioners or other suitable devices at intervals not exceeding 112 bar diameters, or at grout lift heights, or at bar splice locations, whichever is less. Vertical reinforcing shall be located at the center of the wall, unless noted otherwise.
    - Reinforcing bars shall not be welded unless specifically shown on drawings. In such cases, use only AWS standards. Do not substitute reinforcing bars for DBA's or HSA's.
    - Control Joints: Spacing shall not exceed 40'-0". See architectural drawings for locations.
    - Grout all beam and joist pockets solid after installation of beams and joists.
    - Embed channels and plates shall be placed so as to create a flush surface with the face of the wall.
    - Anchor bolts and headed stud anchors shall be set in grouted cells.

# LEGEND OF MARKS AND ABBREVIATIONS

ALT	Alternate	JST	Joist
ARCH	Architect	JSTs	Joists
BLDG	Building	K	Kip(S) = 1000 Pounds
BLK	Blocking	Kf	Kips Per Lineal Foot
BN	Boundary Nail	ksf	Kips Per Square Foot
BOTT	Bottom		
BRG	Bearing	LB	Pounds (#)
BTWN	Between	LSL	Laminated Strand Lumber
BYND	Beyond	LVL	Laminated Veneer Lumber
CANT	Cantilever	MAS	Masonry
CGS	Center of Gravity of Strand	(MAX)	Maximum
C J	Control Joint	MECH	Mechanical
CJP	Complete Joint Penetration	MEZZ	Mezzanine
CL	Center Line	MFR	Manufacturer
CLR	Clear	(MIN)	Minimum
CMU	Concrete Masonry Unit	MISC	Miscellaneous
COL	Column	MTL	Metal
CONC	Concrete		
CONT	Continuous	(N)	New
CS	Coil Strap		
DB	Deck Bearing	oc	On Center
DBA	Deformed Bar Anchor	OPNG	Opening
DBL	Double	OPP	Opposite
DIM	Dimension	OSB	Orientated Strand Board
DWG	Drawing	PCF	Pounds per Cubic Foot
(E)	Existing	PERP	Perpendicular
EA	Each	PL	Plate
ELEC	Electrical	plf	Pounds per Lineal Foot
EMBED	Embedment	PRE-FAB	Prefabricated
EN	Edge Nail	psf	Pounds per Square Foot
EQ	Equal	psi	Pounds per Square Inch
EQUIP	Equipment	PT	Post Tension
EXT	Exterior	PT/DF	Pressure Treated Douglas Fir
FD	Floor Drain	RD	Roof Drain
FND	Foundation	REINF	Reinforce/Reinforcement/Reinforcing
FLR	Floor	REQD	Required/Requirements/Requiring
FTG	Footing	RTU	Roof Top Unit
FRT	Fire Retardant Treatment	SCHED	Schedule
ga	Gage	SCW	Seismic Critical Weld
GALV	Galvanized	SIM	Similar
GLB	Glued Laminated Beam	STD	Standard
GSN	General Structural Notes	STIFF	Stiffener
		STL	Steel
		STRUCT	Structural
HD	Hold-down		
HDR	Header	T&G	Tongue and Groove
HORIZ	Horizontal	TEMP	Temperature
HSA	Headed Stud Anchor	TYP	Typical
HSS	Hollow Structural Section		
ICBO	International Conference of Building Officials	U.N.O.	Unless Noted Otherwise
IBC	International Building Code	VERT	Vertical
INT	Interior	w/	with
		WWR	Welded Wire Reinforcement
		WP	Working Point

STRUCTURAL SHEET INDEX	
Sheet Number	Sheet Name
09S101	GENERAL NOTES
09S102	GENERAL NOTES CONT.
09S202	FOOTING AND FOUNDATION PLAN
09S203	ROOF FRAMING PLAN
09S901	FOOTING AND FOUNDATION DETAILS
09S902	FOOTING AND FOUNDATION DETAILS
09S903	MASONRY DETAILS
09S904	ROOF FRAMING DETAILS
09S905	STEEL SCHEDULES

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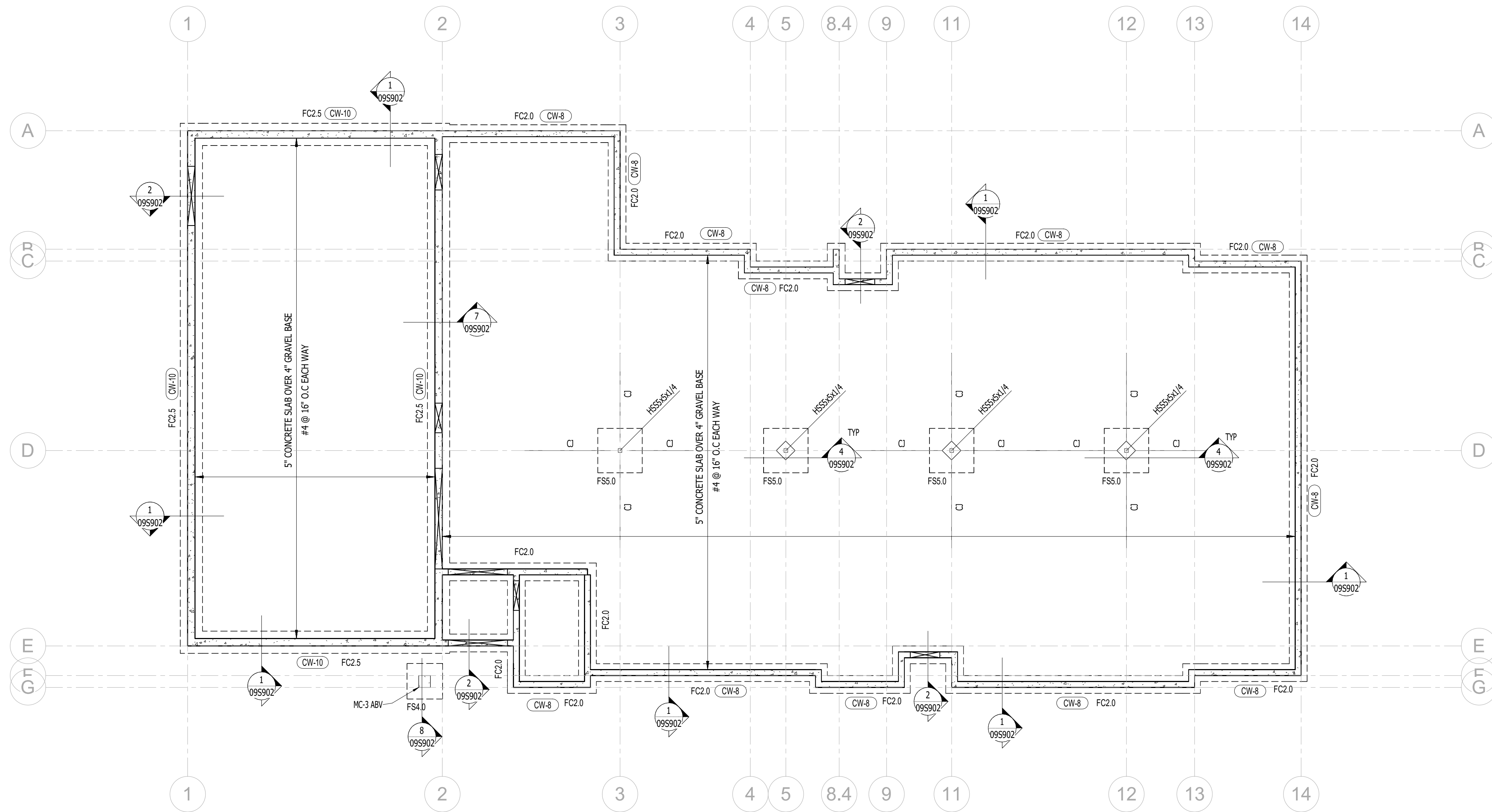
**NORTH PLANT ADMINISTRATION OFFICE BUILDING**  
 SOUTH DAVIS SEWER DISTRICT  
 1800 WEST 1200 NORTH  
 WEST BOUNTIFUL, UTAH

Project **24-001**

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Date	Revisions	Project
3/01/24		24-001
<b>09S102</b>		

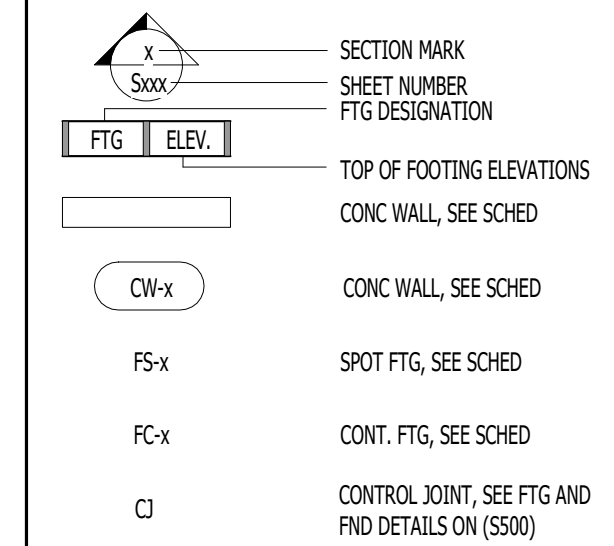




**FOOTING AND FOUNDATION PLAN NOTES**

- SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS. COORDINATE LOCATION OF DEPRESSED SLABS, SLOPED SLABS, AND FLOOR DRAINS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
- SEE ARCHITECTURAL DRAWINGS AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS, SIDEWALKS, ETC.
- SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO ALL STEEL COLUMN COORDINATE DIMENSIONS SHOWN WITH ARCHITECTURAL DRAWINGS.
- SEE FOOTING AND FOUNDATION DETAILS FOR BURIED PIPES RUNNING PARALLEL AND PERPENDICULAR TO FOOTINGS.
- SEE GENERAL STRUCTURAL NOTES AND FOOTING AND FOUNDATION DETAILS FOR TYPICAL CONSTRUCTION AND CONTROL JOINTS IN FLOOR SLAB.
- SEE GENERAL STRUCTURAL NOTES AND FOOTING AND FOUNDATION DETAILS FOR LOCATIONS WHERE CONTROL JOINTS ARE DISCONTINUOUS.
- SEE FOOTING AND FOUNDATION DETAILS FOR REINFORCING AROUND MISCELLANEOUS OPENINGS IN CONCRETE WALLS.
- SEE FOOTING AND FOUNDATION DETAILS FOR TERMINATION OF HORIZONTAL WALL REINFORCING AT CORNERS.
- CENTER ALL SPOT FOOTINGS UNDER COLUMNS AS SHOWN ON PLAN, TYPICAL UNLESS NOTED OTHERWISE.
- SEE GENERAL STRUCTURAL NOTES AND FOOTING AND FOUNDATION DETAILS FOR FILL BENEATH FOOTINGS.
- PROVIDE MINIMUM 30" FROST COVERAGE. SEE ARCH CONTROL PLAN FOR TO FOUNDATION ELEVATIONS
- SEE ARCH PLAN FOR HEIGHT OF CONCRETE WALL.

**MARKS AND SYMBOL LEGEND**



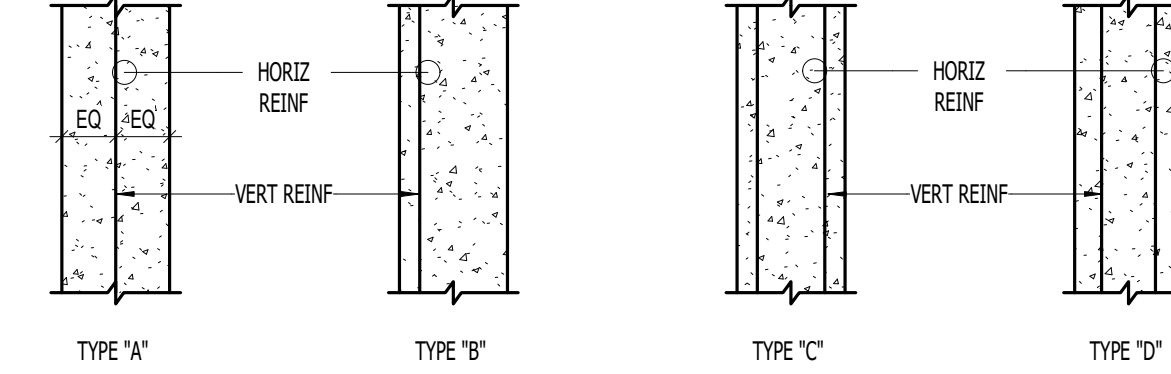
MARK	THICKNESS	REINFORCING		WALL TYPE	COMMENTS
		VERTICAL	HORIZONTAL		
CW-8	8"	(1) #5 AT 14" oc	(1) #4 AT 10" oc	(2) #4	A
CW-10	10"	(2) #5 AT 14" oc	(1) #4 AT 10" oc	(2) #4	C

**CONCRETE WALL NOTES:**

- SEE GENERAL STRUCTURAL NOTES FOR COVER AND OTHER REQUIREMENTS NOT NOTED IN SCHEDULE.
- CONCRETE WALLS NOT DESIGNATED ON THE PLANS SHALL BE REINFORCED AS FOLLOWS:
 

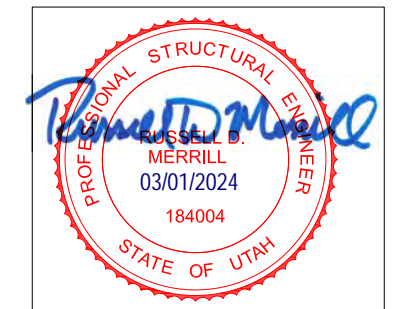
THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
6"	#4 BARS AT 18" oc	#4 BARS AT 16" oc
8"	#4 BARS AT 18" oc	#4 BARS AT 12" oc
10"	#4 BARS AT 16" oc	#5 BARS AT 15" oc
12"	#4 BARS AT 18" oc EA FACE	#4 BARS AT 16" oc EA FACE
- PLACE STEEL IN THE CENTER OF THE WALL (EXCEPT TYPE 'B' AND RETAINING WALLS). WALLS THICKER THAN 10" SHALL HAVE TWO CURTAINS OF REINFORCEMENT (PLACED NEAR EA FACE OF THE WALL), UNLESS NOTED OTHERWISE ON THE STRUCTURAL
- PROVIDE ADDITIONAL REBAR AS REQUIRED, SEE SHEET S400.

**WALL REINFORCEMENT PLACEMENT TYPES:**



MARK	WIDTH	LENGTH	DEPTH	REINFORCING CROSSWISE			REINFORCING LENGTHWISE			COMMENTS	
				NO	SIZE	SPACING	NO	SIZE	SPACING		
FC2.0	2'-0"	CONT	12"	—	—	—	3	#4	CON	EQ	
FC2.5	2'-6"	CONT	12"	—	#5	2'-0"	14"	3	#5	CON	EQ
FS4.0	4'-0"	4'-0"	12"	4	#5	3'-6"	EQ"	4	#5	3'-6"	EQ
FS5.0	5'-0"	5'-0"	12"	5	#5	4'-6"	EQ"	5	#5	4'-6"	EQ

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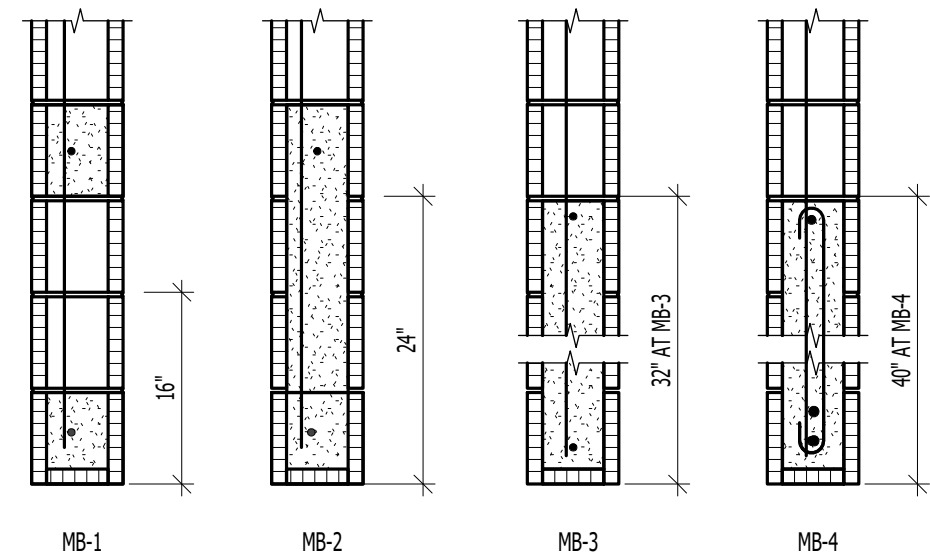


Project: 24-001  
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 SOUTH DAVIS SEWER DISTRICT  
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Date	Revisions
3/01/24	1
	2
	3
	4
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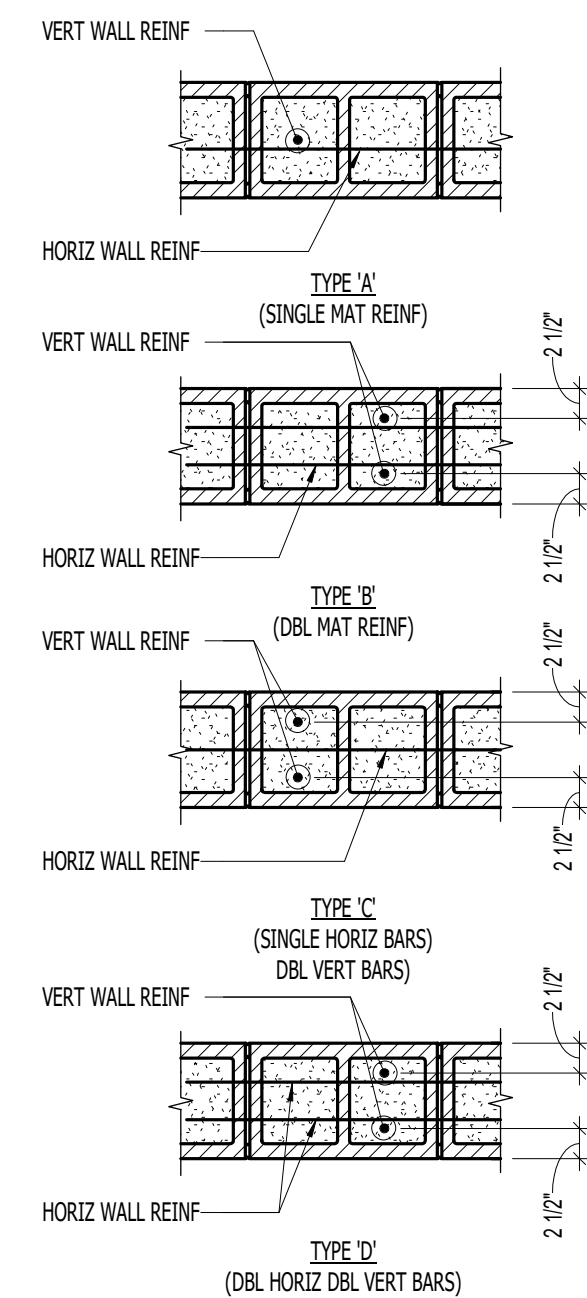
09S202

MASONRY LINTEL SCHEDULE					
MARK	LINTEL DEPTH	LINTEL SPAN (MAX)	REINFORCING		COMMENTS
			HORIZONTAL	STIRRUPS	
MB-1	16"	3'-4"	(1)#4 BOTTOM	NONE	-
MB-2	24"	5'-0"	(1)#4 BOTTOM	NONE	-
MB-3	32"	8'-0"	(1)#6 BOTTOM	NONE	-
MB-4	40"		(2)#6 TOP & BOTTOM	#4 AT 8"oc	(1)#7 TOP BAR



MASONRY WALL SCHEDULE						
MARK	THICKNESS	MATERIALS	SOLID GROUT	REINFORCING		
				VERTICAL	HORIZONTAL	JOINT
MW-8	8"	CMU	NO	(1)#5 AT 32"oc	(1)#5 AT 48"oc	A NO
MW-10	10"	CMU	NO	(2)#5 AT 32"oc	(1)#5 AT 48"oc	A NO

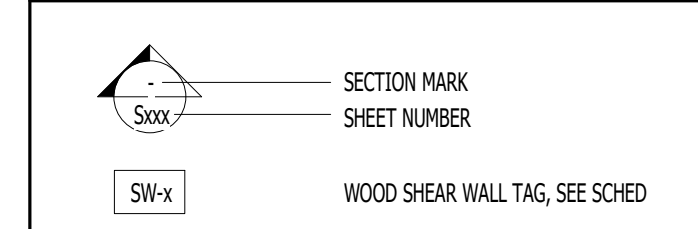
- MASONRY WALL NOTES:
- COORDINATE WITH ARCHITECTURAL DRAWINGS, MASONRY WALL FINISHES, TYPES OF MATERIAL, COURSING, ETC.
  - DO NOT SOLID GROUT WALLS UNLESS NOTED OTHERWISE.
  - ALL MASONRY BELOW GRADE SHALL BE GROUTED SOLID.
  - VERTICAL REINFORCING SHALL BE CENTERED IN THE WALL UNLESS NOTED OTHERWISE.
  - (1) VERTICAL BARS MINIMUM AT ALL CORNERS AND END OF WALLS.
  - HORIZONTAL WALL REINFORCING SHALL BE PLACED BETWEEN VERTICAL MASONRY COLUMN REINFORCING BARS.
  - HORIZONTAL WALL REINFORCING SHALL CONTINUE THRU MASONRY LINTELS, WHERE BOTH HORIZONTAL WALL REINFORCING AND LINTEL REINFORCING OCCUR IN THE SAME COURSE, USE THE LARGER REINFORCING.
  - MASONRY WALLS NOT DESIGNATED ON THE PLANS SHALL BE REINFORCED AS FOLLOWS:
- | THICKNESS | VERTICAL REINFORCING | HORIZONTAL REINFORCING |
|-----------|----------------------|------------------------|
| 6"        | #5 BARS AT 32"oc     | #4 BARS AT 48"oc       |
| 8"        | #5 BARS AT 32"oc     | #5 BARS AT 48"oc       |
| 10"       | #6 BARS AT 32"oc     | #6 BARS AT 48"oc       |
| 12"       | #6 BARS AT 32"oc     | (2) #5 BARS AT 48"oc   |
- SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.
  - MASONRY SHALL BE SPECIAL INSPECTED SEE GENERAL STRUCTURAL NOTES.
  - HORIZONTAL WALL REINFORCEMENT SPACING SHALL NOT EXCEED 48"oc OR THE WALL LENGTH.



### ROOF FRAMING PLAN NOTES

- SEE ARCHITECTURAL DRAWINGS FOR ALL DRAWINGS VERIFY ROOF SLOPES, DRAINS, AND DECK BEARING ELEVATIONS WITH ARCHITECTURAL DRAWINGS. SEE ROOF FRAMING DETAILS.
- REFER TO ARCHITECTURAL DRAWINGS FOR ALL CEILING ELEVATIONS AND SOFFIT ELEVATIONS AND DETAILS.
- WEIGHTS AND LOCATIONS OF MECHANICAL EQUIPMENT SHALL BE SUBMITTED TO ARCHITECT IN WRITING FOR REVIEW PRIOR TO PLACEMENT OF ROOF FRAMING.
- REFER TO GENERAL STRUCTURAL NOTES ON SHEET (09S101) FOR DESIGN LOADS OF ROOF TRUSSES.
- CONTRACTOR SHALL BE RESPONSIBLE TO PROPERLY BRACE, WALLS, BEAMS, TRUSSES, ETC. AS REQUIRED DURING CONSTRUCTION.
- TRUSS MANUFACTURER SHALL INCLUDE CAPACITY FOR AN ADDITIONAL (2) 1000 LBS POINT LOADS THAT MAY OCCUR AT ANY POINT INCLUDING 2'-0" TO 5'-0" APART FROM EACH OTHER.

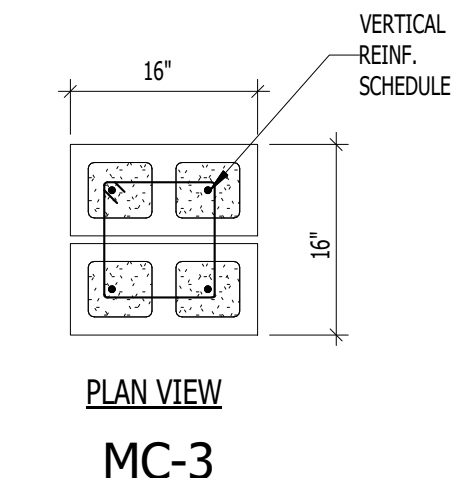
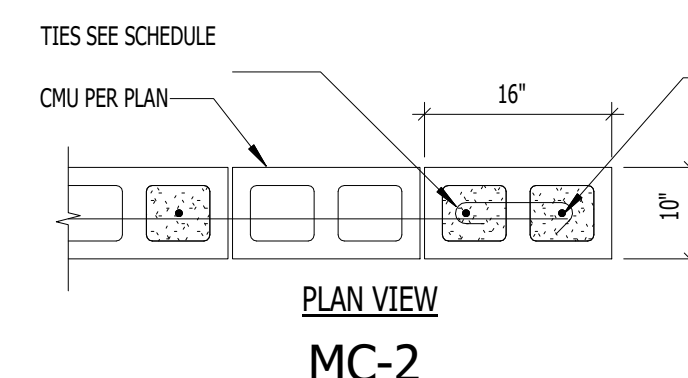
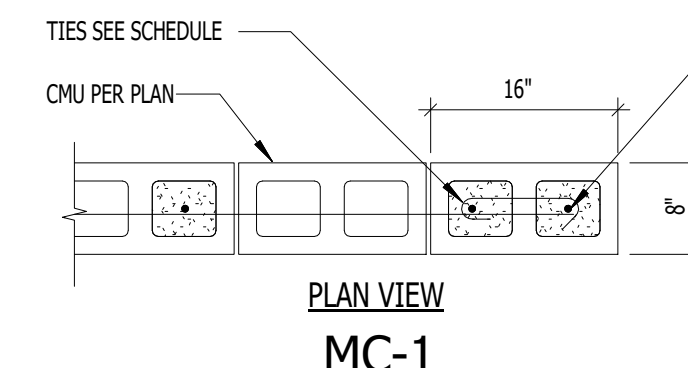
### MARKS AND SYMBOL LEGEND



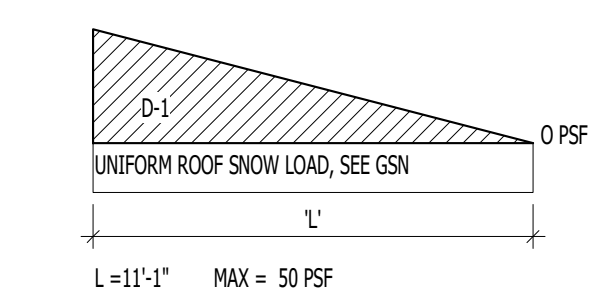
### MASONRY LINTEL NOTES:

- LINTEL WIDTH AND MATERIAL TYPES SHALL BE THE SAME AS THE WALL IN WHICH THE LINTEL IS CONSTRUCTED.
- GROUT MASONRY LINTELS MONOLITHICALLY WITH THE SUPPORT WALL OR COLUMN AT EA END.
- MASONRY LINTELS MB-1 THRU MB-4 SHALL BE USED OVER OPENINGS IN MASONRY WALLS WHEN A SPECIFIC MASONRY LINTEL IS NOT OTHERWISE SPECIFIED. WHEN A LINTEL IS SPECIFIED ON THE PLANS, THE MAXIMUM SPAN AS NOTED IN THIS SCHEDULE SHALL NOT APPLY. CONSULT THE STRUCTURAL ENGINEER FOR LINTELS NOT SPECIFIED ON THE PLANS WHICH HAVE A SPAN GREATER THAN 15'-0".
- MASONRY LINTELS MB-1 THRU MB-4 SHALL NOT BE LOCATED DIRECTLY BELOW FLOOR OR ROOF BEAMS OR GIRDERS UNLESS NOTED OTHERWISE ON THE PLANS. JOISTS SHALL NOT BEAR ON ANY LINTEL LESS THAN 16" DEEP. CONSULT THE STRUCTURAL ENGINEER FOR LINTELS NOT SHOWN ON THE PLANS WHICH ARE LOCATED DIRECTLY BELOW FLOOR OR ROOF BEAMS OR GIRDERS.
- EXTEND ALL HORIZONTAL REINFORCING BEYOND THE EDGE OF ALL OPENINGS. IF HORIZONTAL REINFORCING CANNOT EXTEND LAP SPLICE LENGTH BEYOND EDGE OF OPENING, PROVIDE 90° STANDARD HOOK.
- SPLICE TOP BARS AT MID-SPAN OF LINTEL ONLY AND BOTTOM BARS OVER SUPPORTS ONLY.
- HORIZONTAL WALL REINFORCING SHALL CONTINUE THRU MASONRY LINTELS, WHERE BOTH HORIZONTAL WALL REINFORCING AND LINTEL REINFORCING OCCUR IN THE SAME COURSE, USE THE LARGER REINFORCING.
- DOVEL REINFORCING OF WALL ABOVE LINTEL INTO THE FULL DEPTH OF LINTEL.
- SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

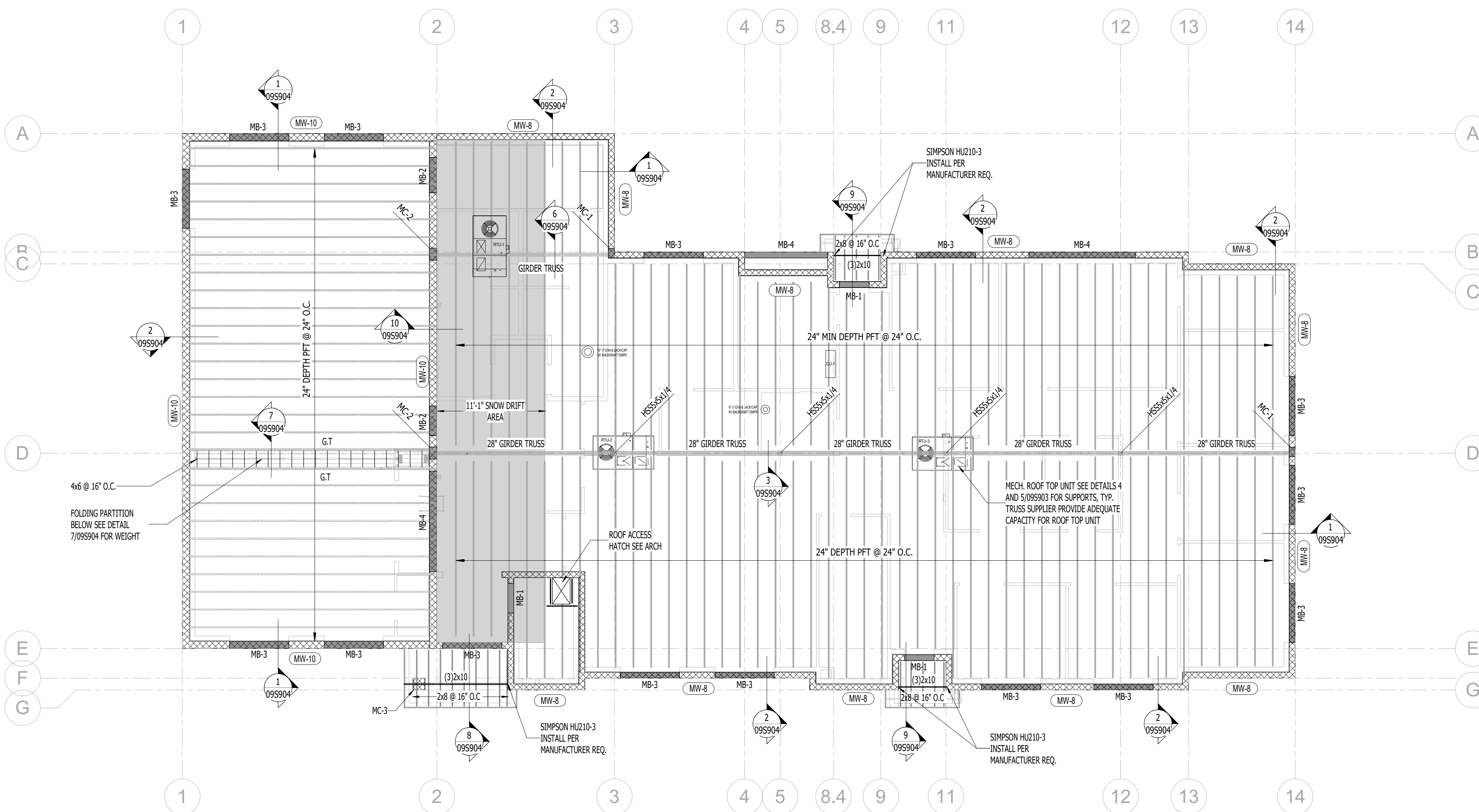
MASONRY COLUMN SCHEDULE				
MARK	SIZE	VERTICAL REINFORCE	TIES	GROUT SOLID
MC-1	16" x 8"	(2)#6	#3 @ 6" O.C.	YES
MC-2	16" x 10"	(2)#6	#3 @ 8" O.C.	YES
MC-3	16" x 16"	(4)#5	#3 @ 8" O.C.	YES



### SNOW DRIFT LOADING DIAGRAM



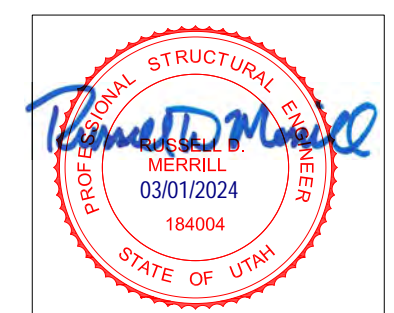
SNOW DRIFT IS IN ADDITION TO THE UNIFORM ROOF SNOW LOAD SPECIFIED IN THE GSN



# 1 ROOF FRAMING PLAN

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

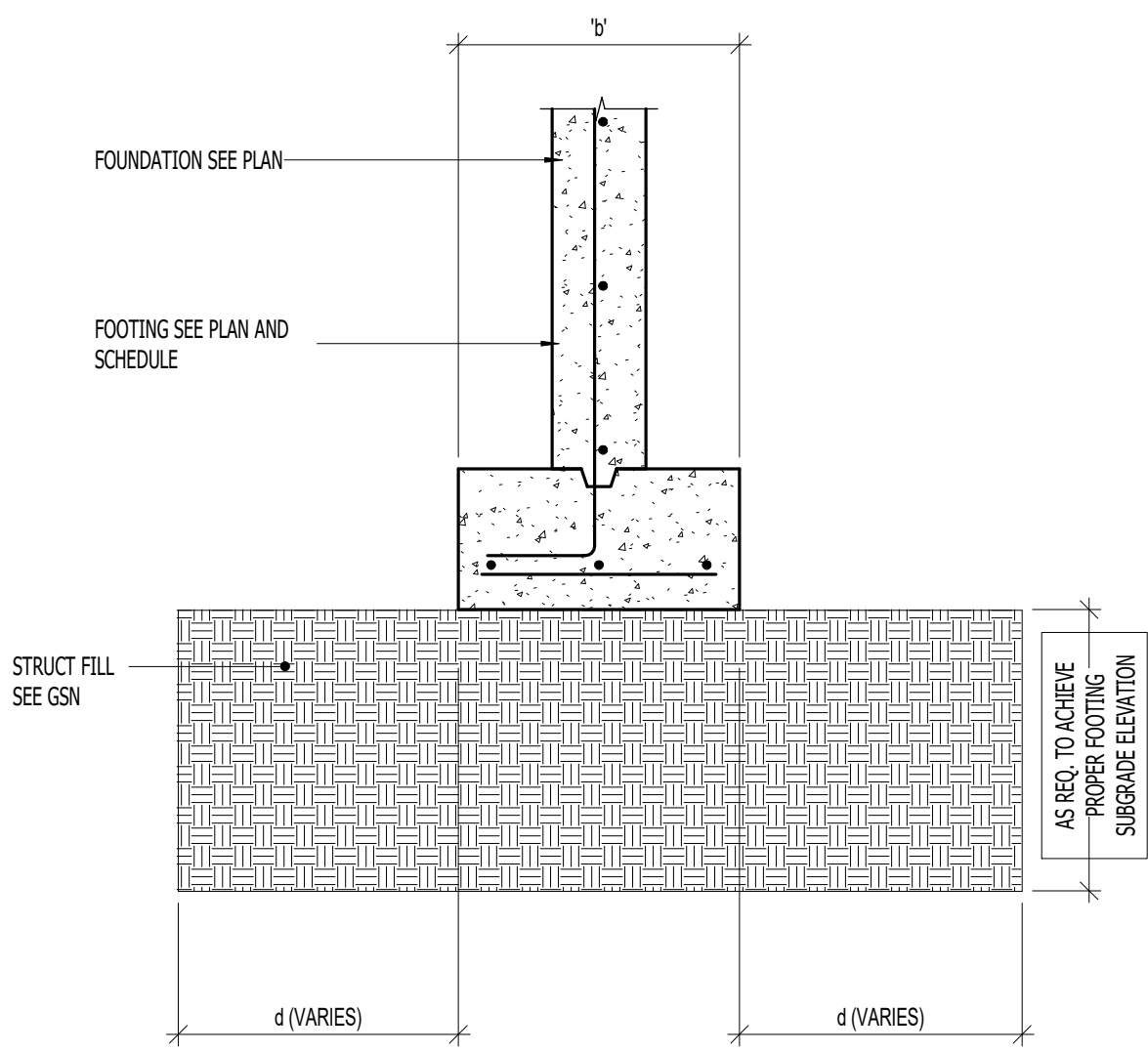
**James B. Glascock, Architect P.C.**  
 Architecture - Planning  
 18901 East Lark Drive  
 Queen Cree, Arizona 85142  
 801 - 860 - 8905 e-mail: [glascock@mtcon.net](mailto:glascock@mtcon.net)



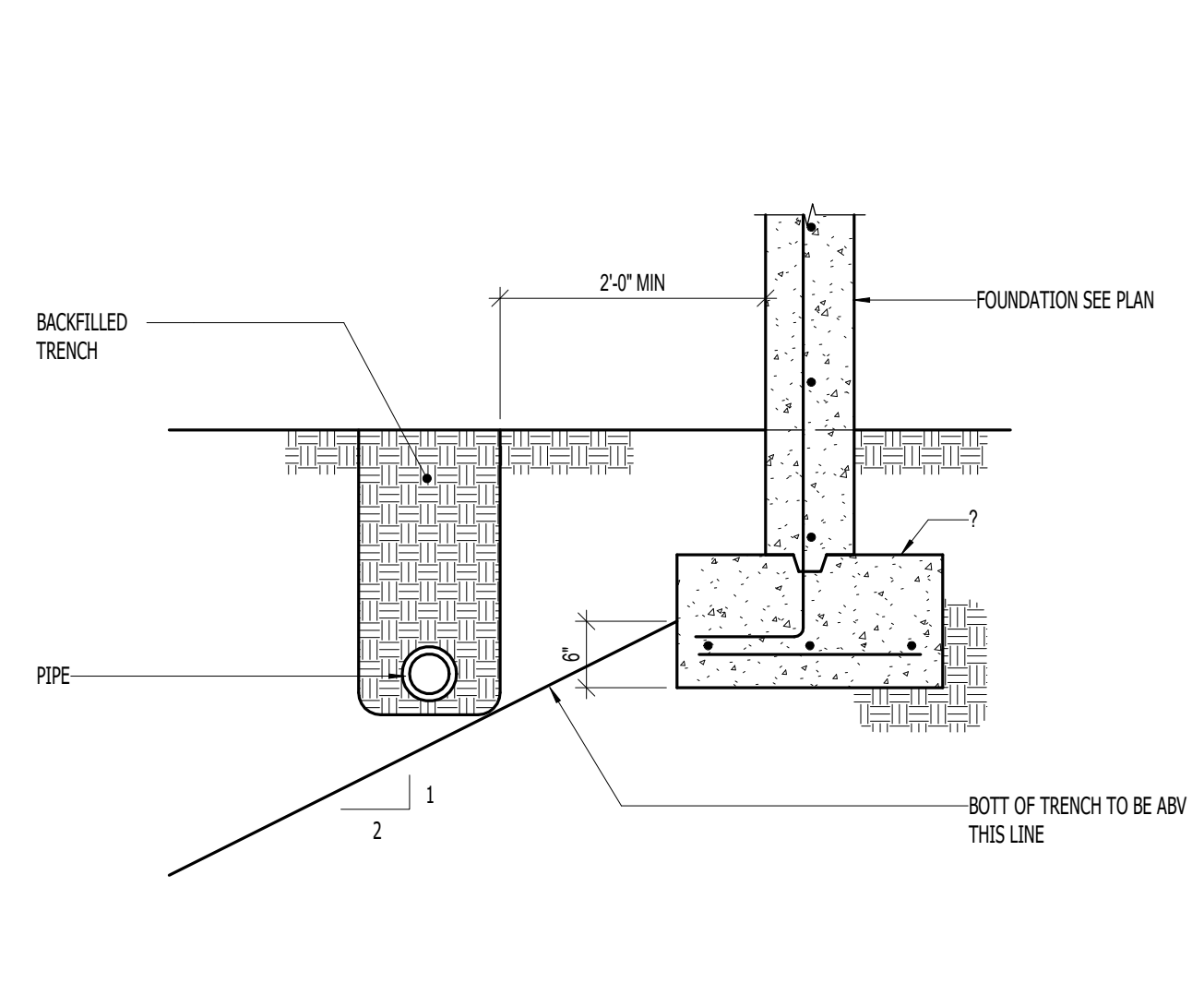
Project **24-001**  
**NORTH PLANT ADMINISTRATION OFFICE BUILDING**  
 SOUTH DAVIS SEWER DISTRICT  
 1800 WEST 1200 NORTH  
 WEST BOUNTIFUL, UTAH

Date	Revisions
3/01/24	

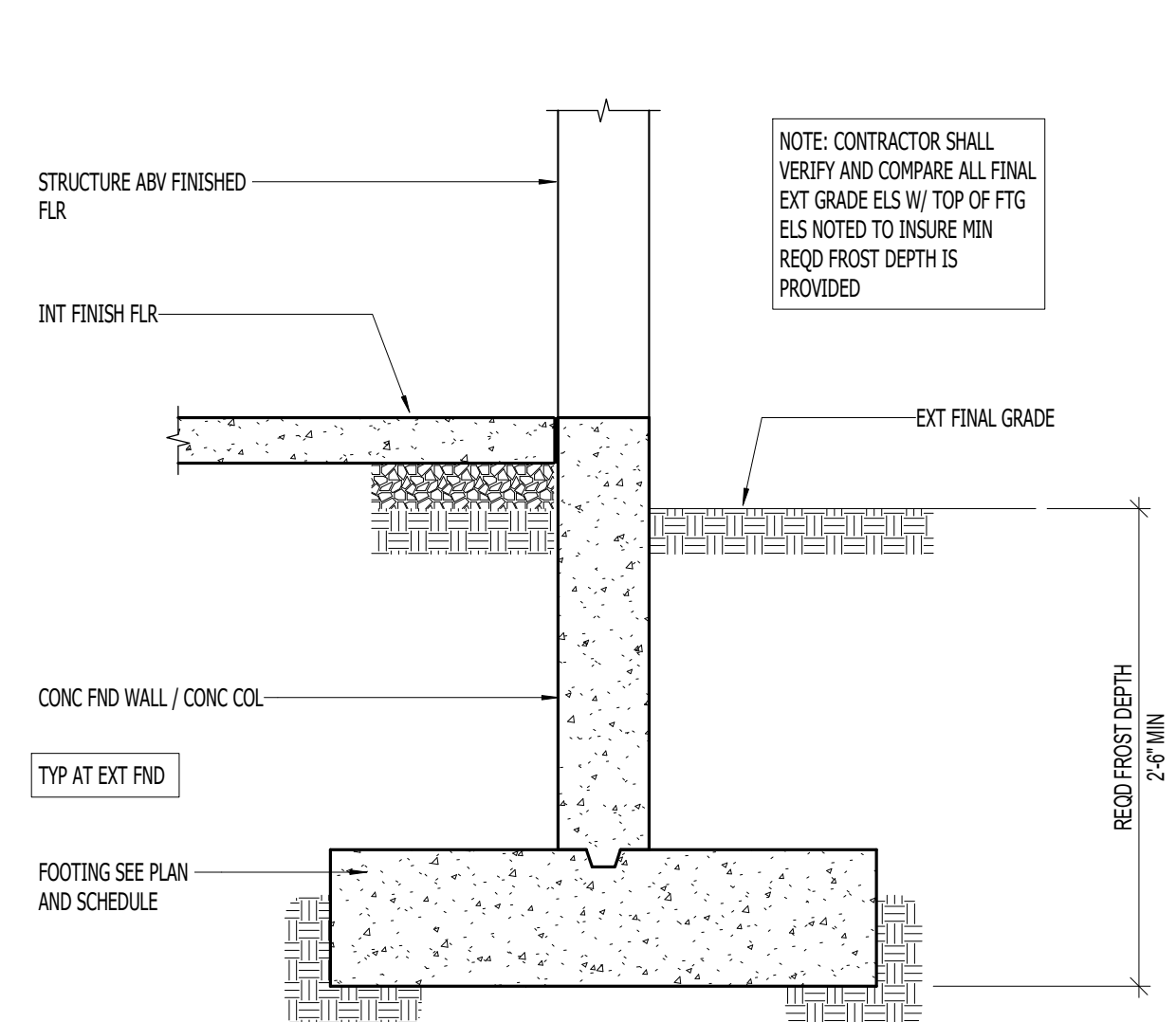
**09S203**



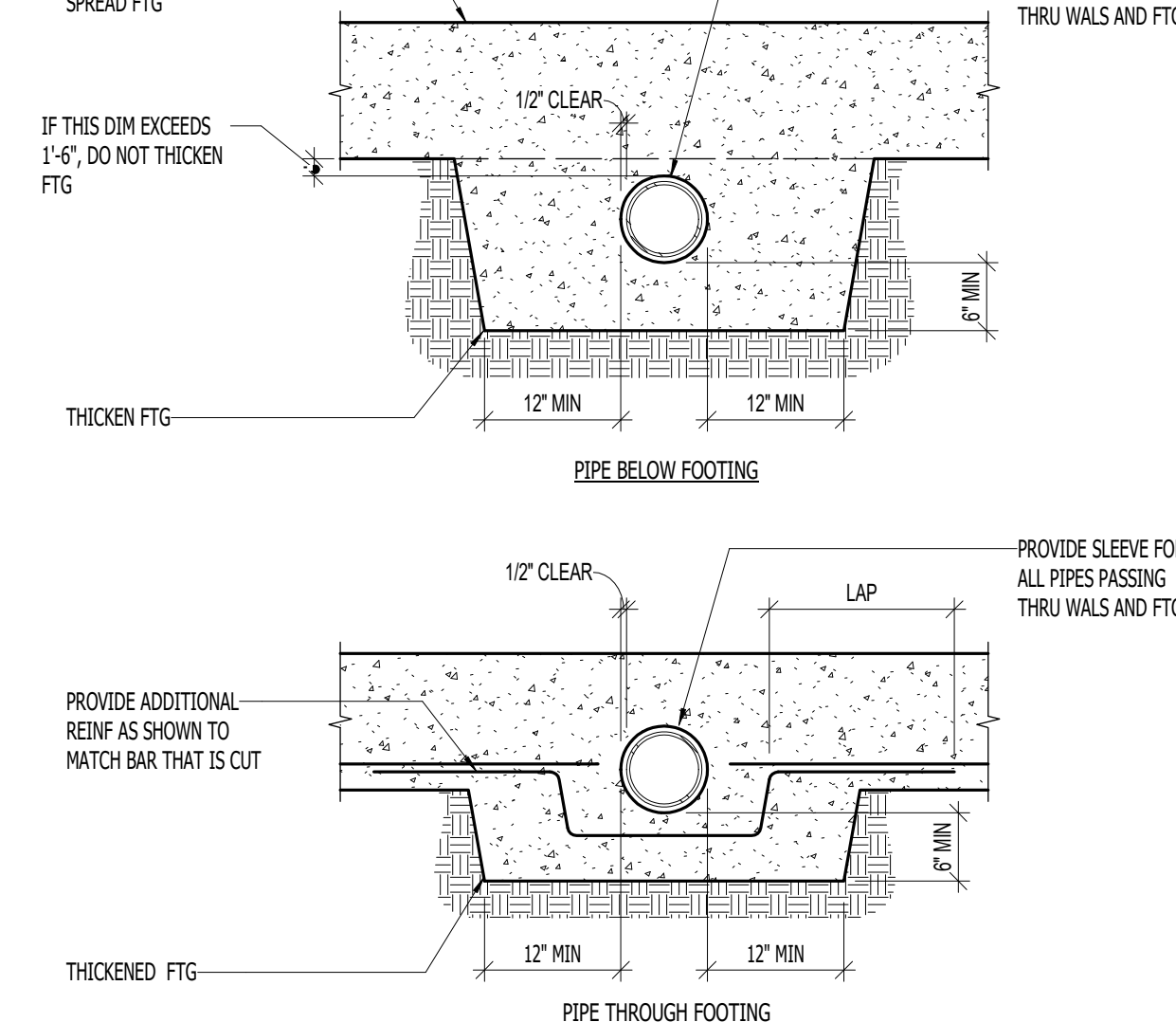
**1** TYPICAL COMPACTED STRUCTURAL FILL (IF REQUIRED)  
09S901 NO SCALE:



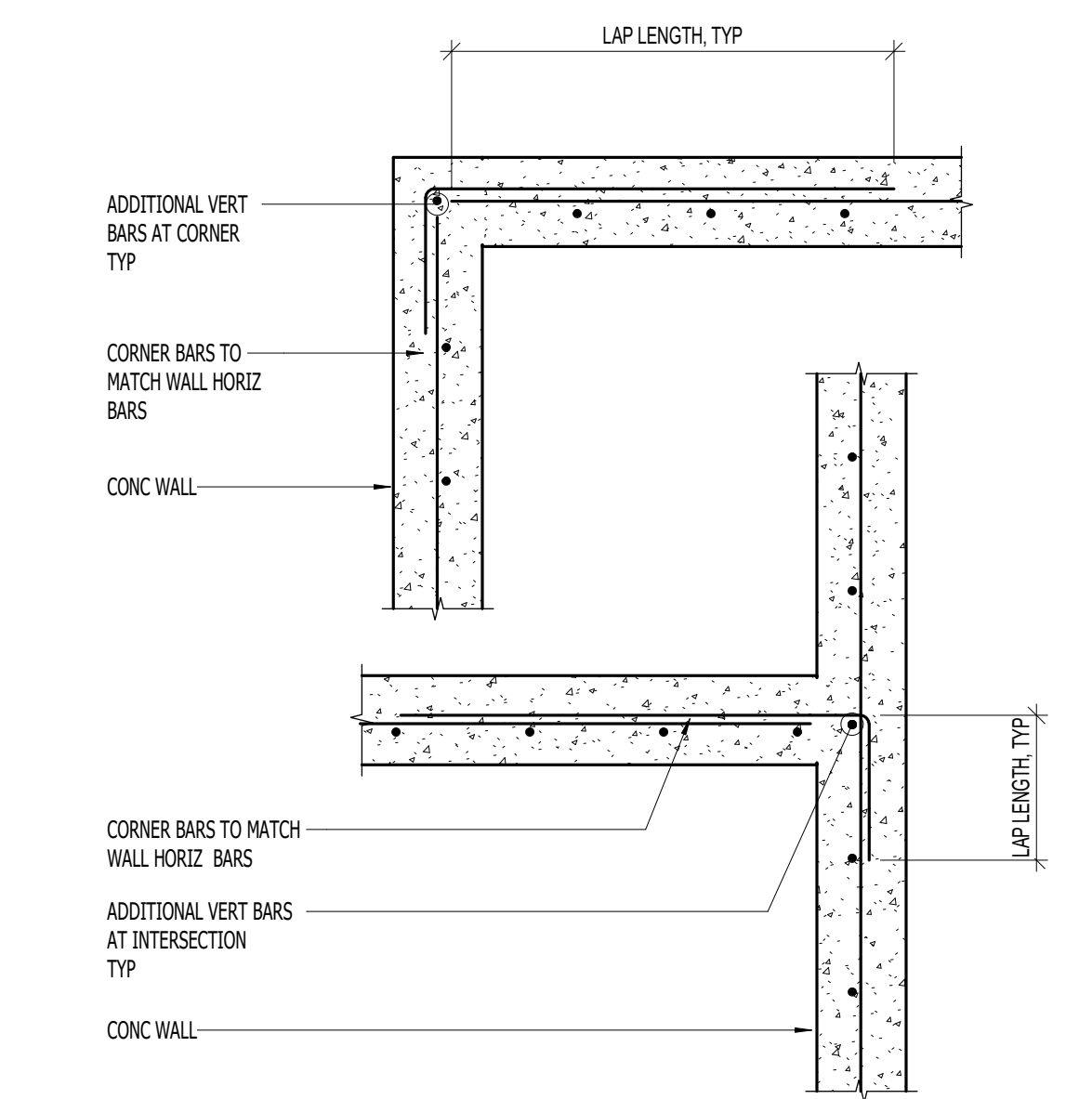
**2** TYPICAL PIPE PARALLEL TO FOOTING  
09S901 NO SCALE:



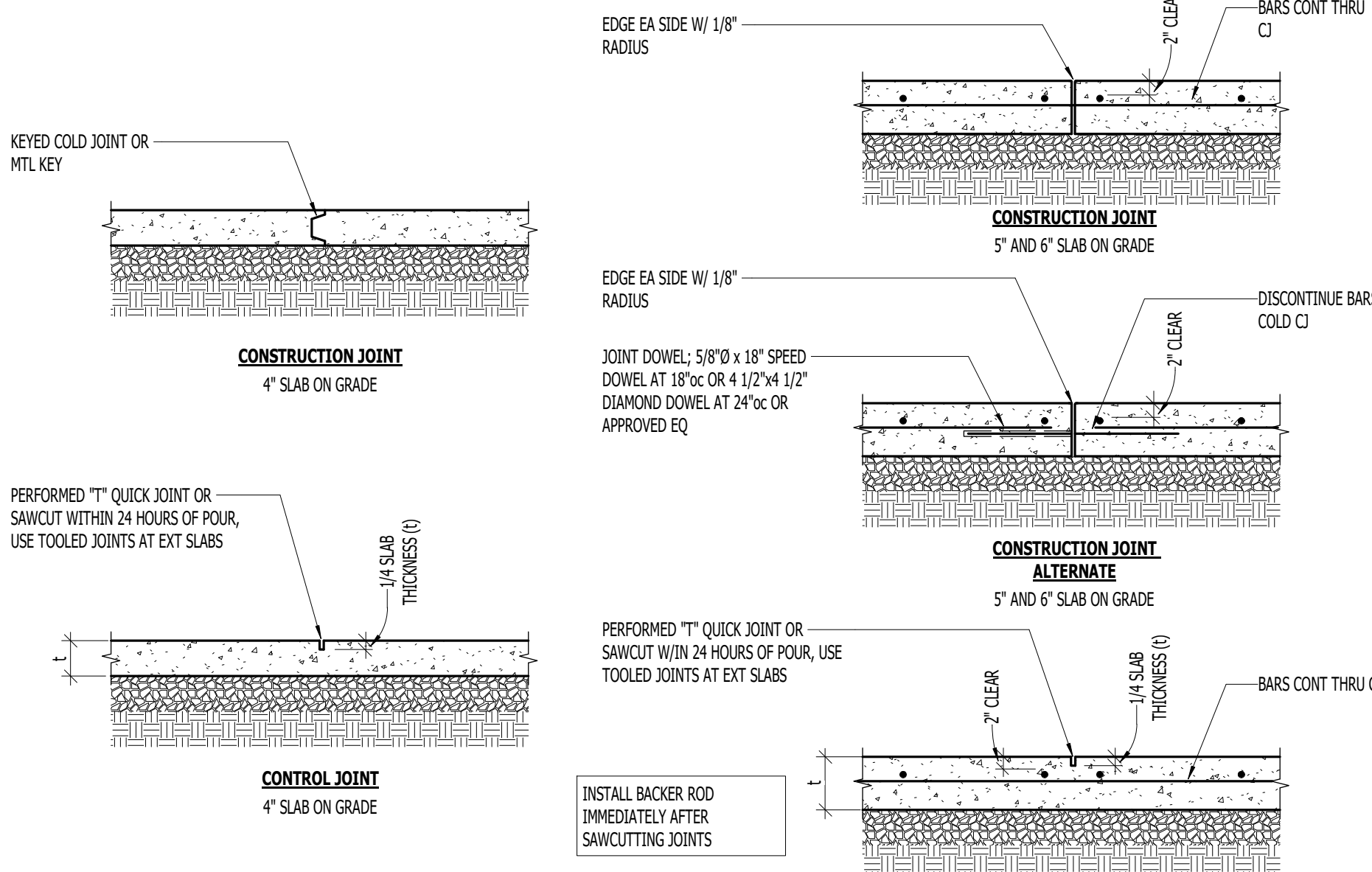
**3** TYPICAL FOOTING DEPTH DETAIL FOR FROST PROTECTION  
09S901 NO SCALE:



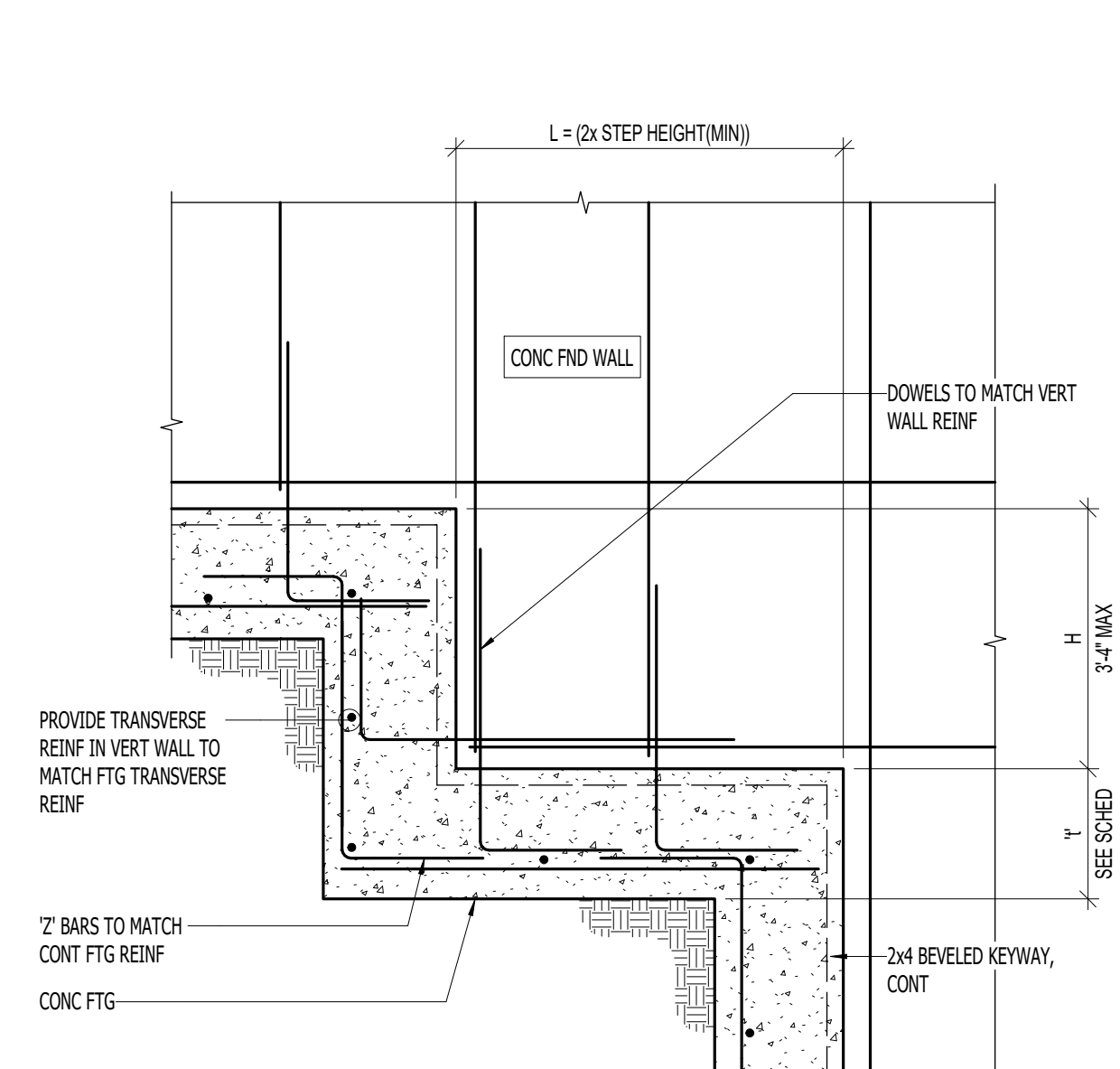
**4** TYPICAL PIPE PERPENDICULAR TO CONTINUOUS FOOTING  
09S901 NO SCALE:



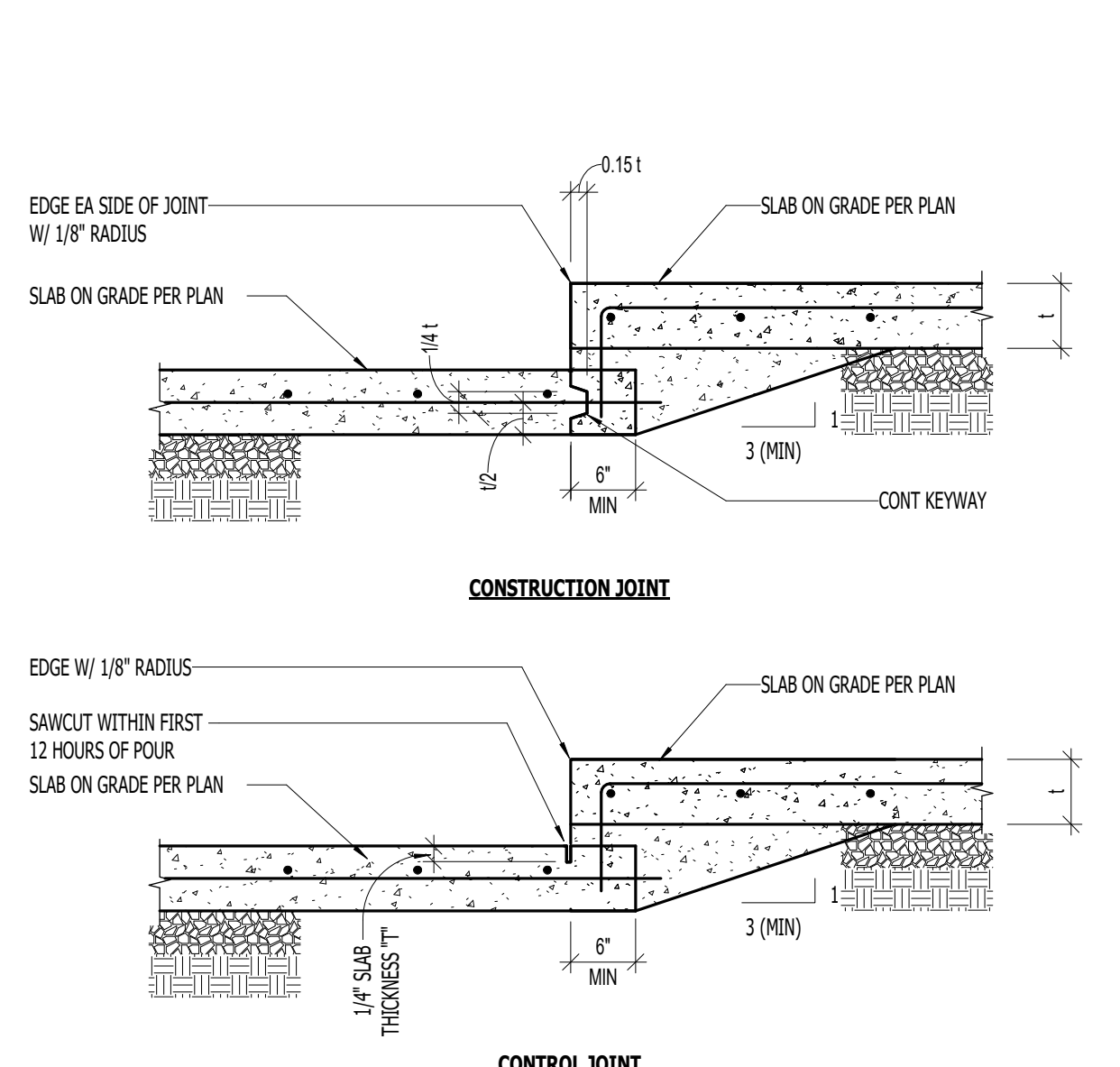
**7** TYPICAL CORNER WALL REINFORCING  
09S901 NO SCALE:



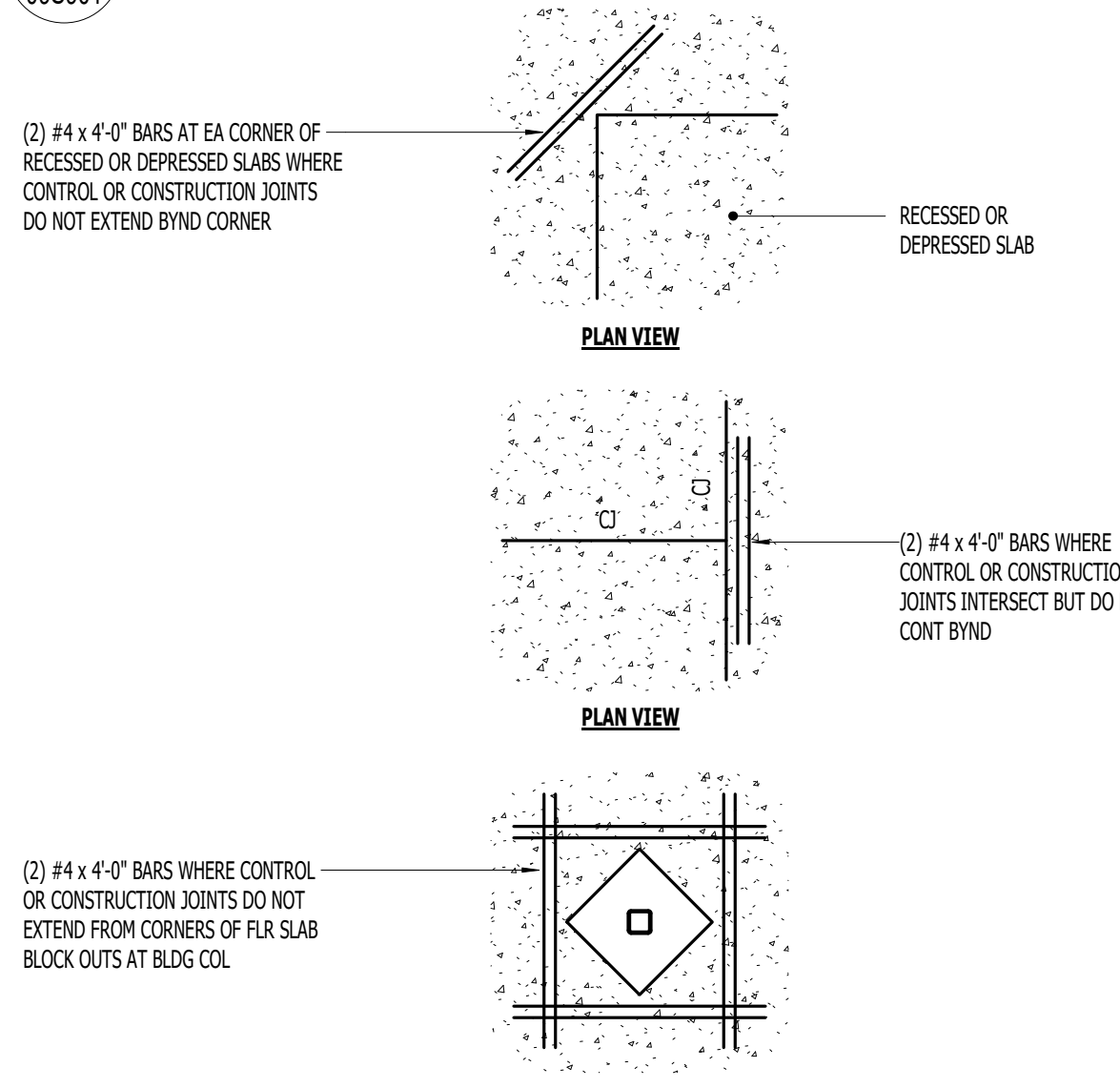
**9** TYPICAL SLAB ON GRADE JOINT  
09S901 NO SCALE:



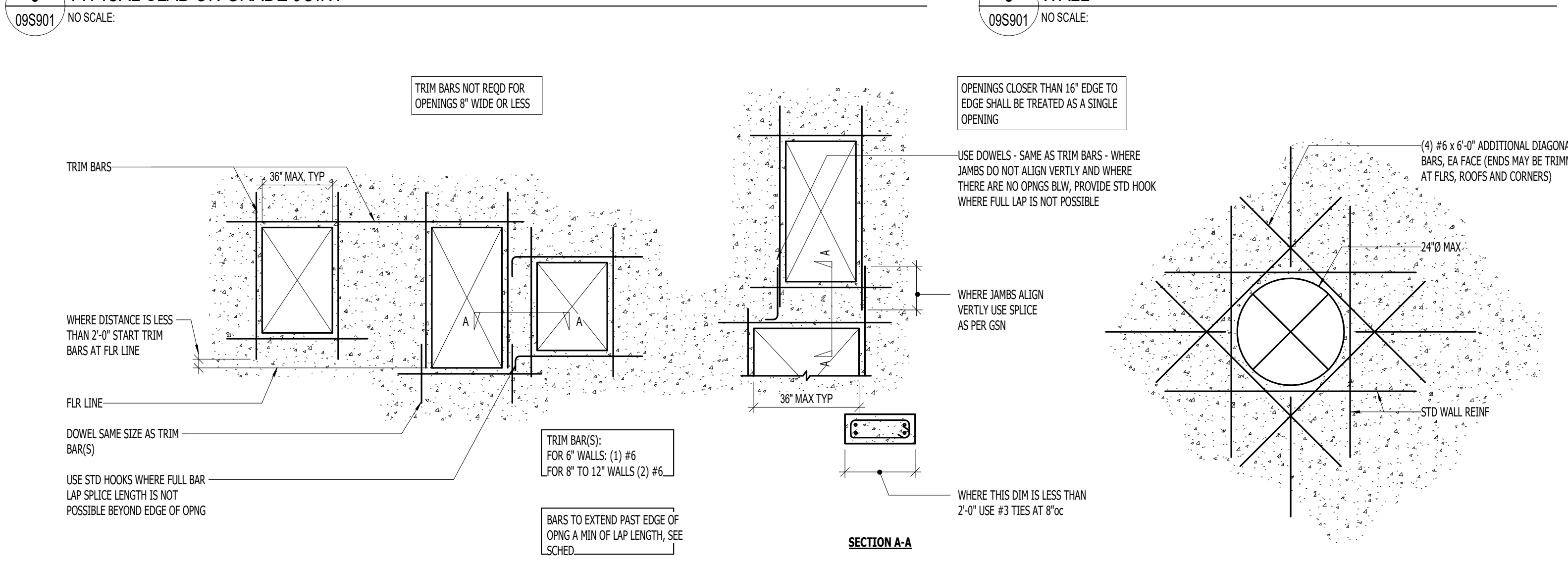
**5** TYPICAL FOOTING STEP AT CONCRETE FOUNDATION WALL  
09S901 NO SCALE:



**10** TYPICAL SLAB DEPRESSION DETAIL  
09S901 NO SCALE:

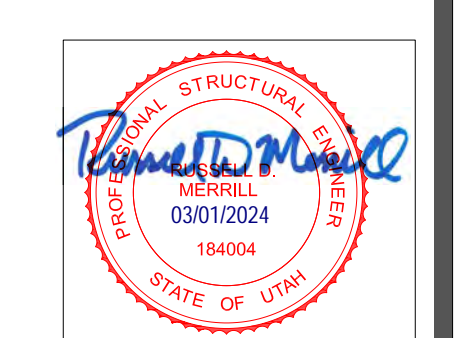


**11** TYPICAL LOCATIONS REQUIRING ADDITIONAL SLAB REINFORCING STEEL  
09S901 NO SCALE:



**12** TYPICAL TRIM BARS AROUND MISCELLANEOUS CONCRETE WALL OPENINGS UNLESS NOTED OTHERWISE  
09S901 NO SCALE:

**James B. Glascock, Architect P.C.**  
Architecture - Planning  
18901 East Lark Drive  
Queen Cree, Arizona 85142  
801 - 860 - 8905 e-mail: [glascock@mtcon.net](mailto:glascock@mtcon.net)

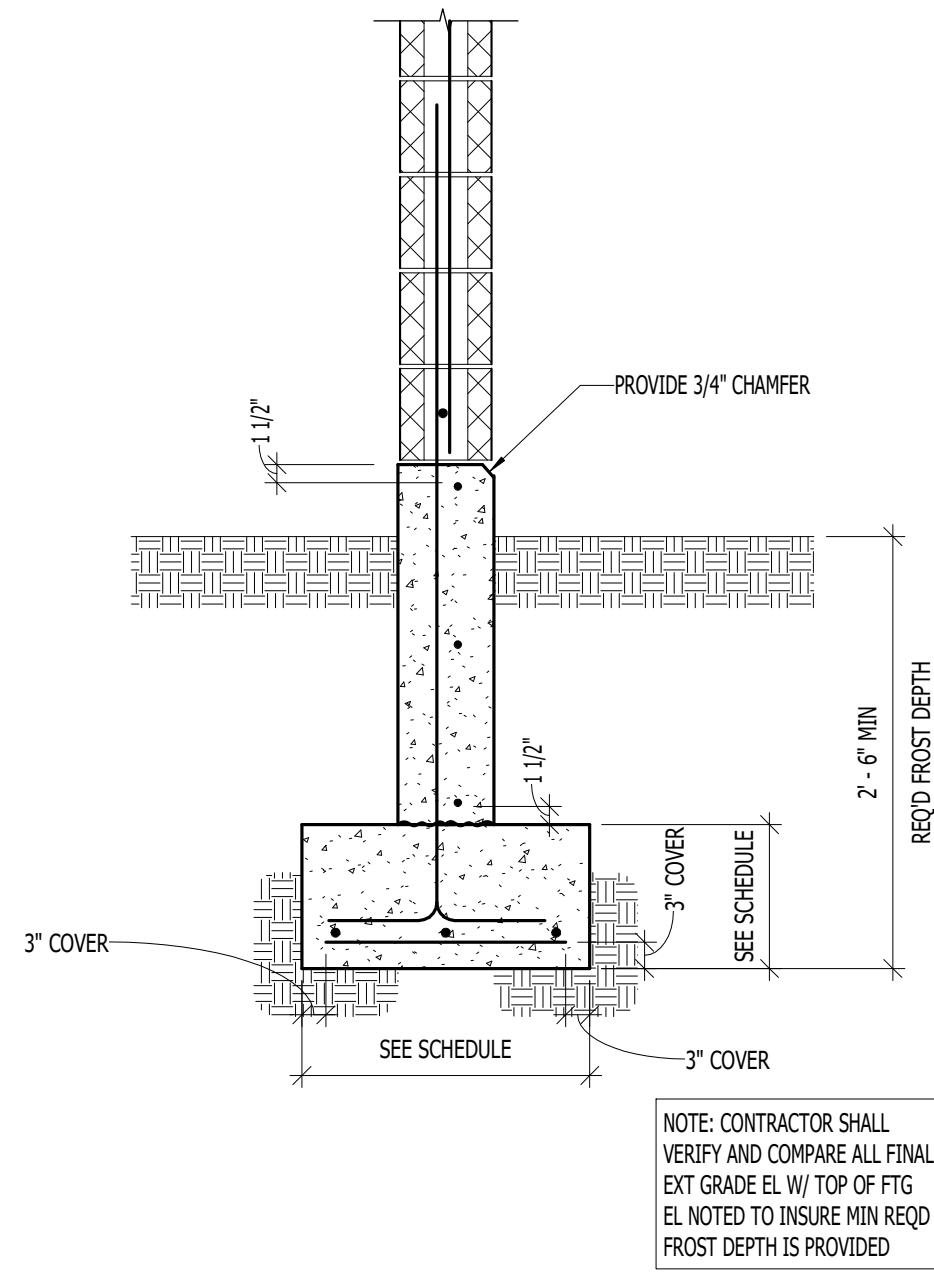


Project **24-001**  
NORTH PLANT ADMINISTRATION OFFICE BUILDING  
SOUTH DAVIS SEWER DISTRICT  
1800 WEST 1200 NORTH  
WEST BOUNTIFUL, UTAH

Date	Revisions
3/01/24	1
	2
	3
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	10
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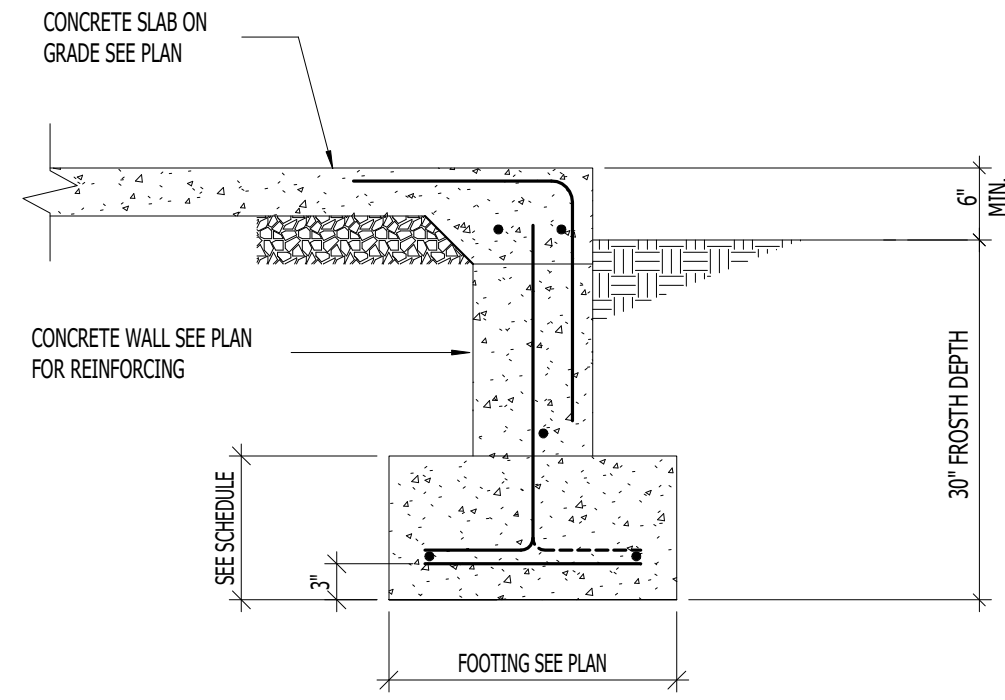
**09S901**

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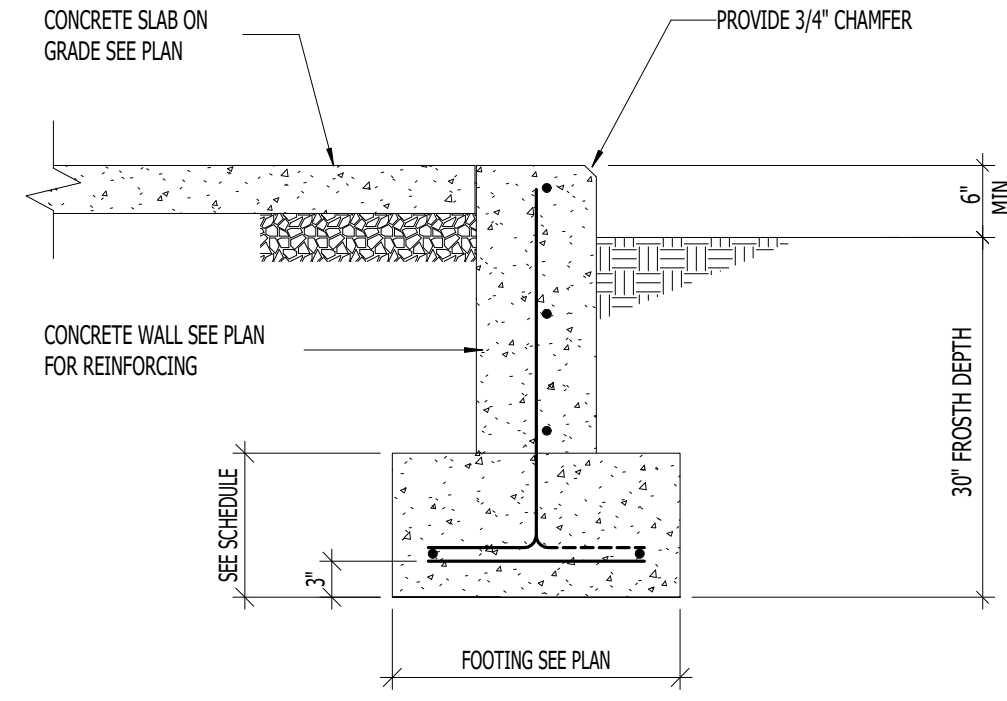


NOTE: CONTRACTOR SHALL VERIFY AND COMPARE ALL FINAL EXT GRADE EL W/ TOP OF FTG EL NOTED TO INSURE MIN REQD FROST DEPTH IS PROVIDED

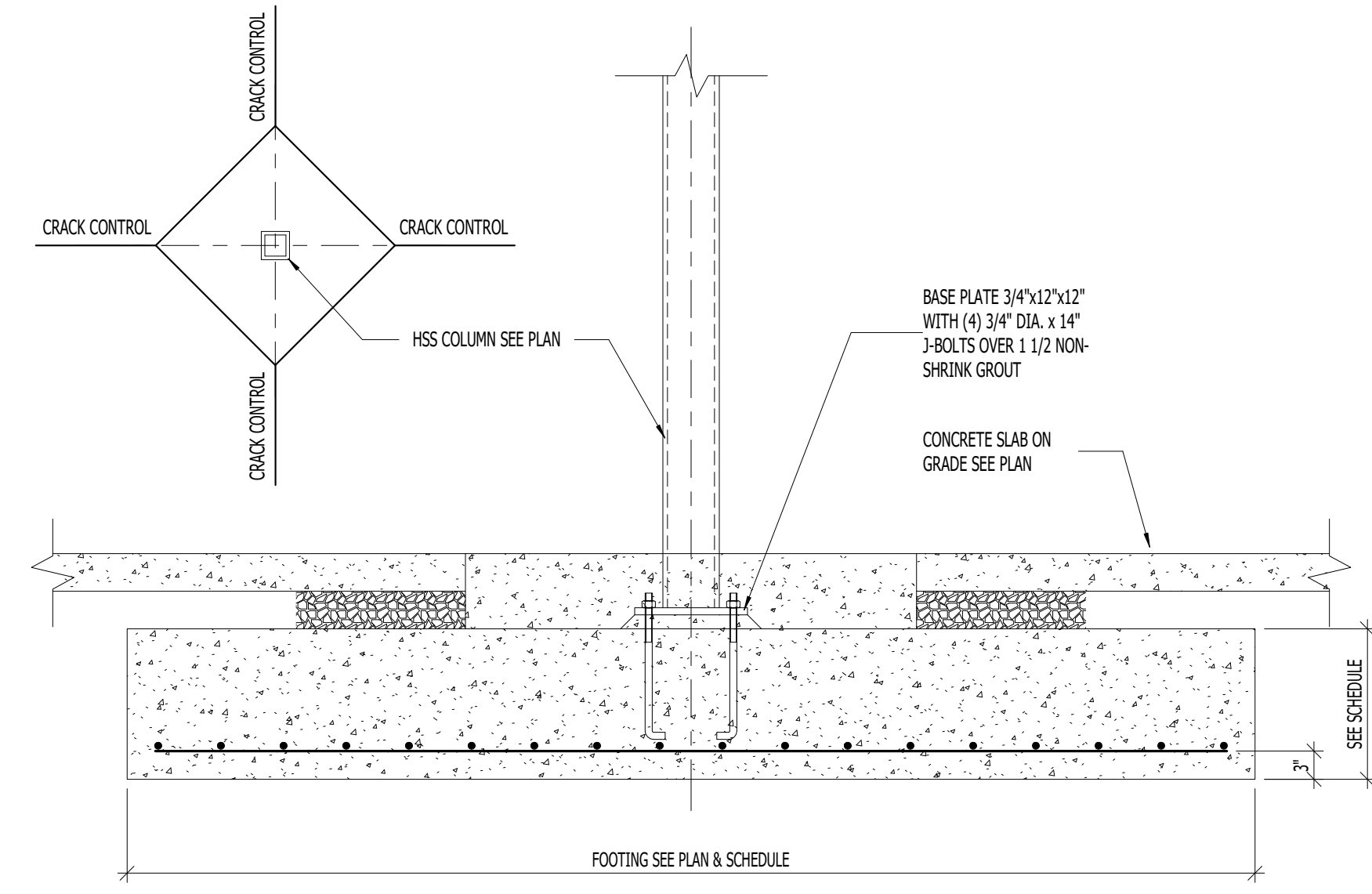
1 CMU WALL ON 8" FOUND WALL  
09S902 NO SCALE:



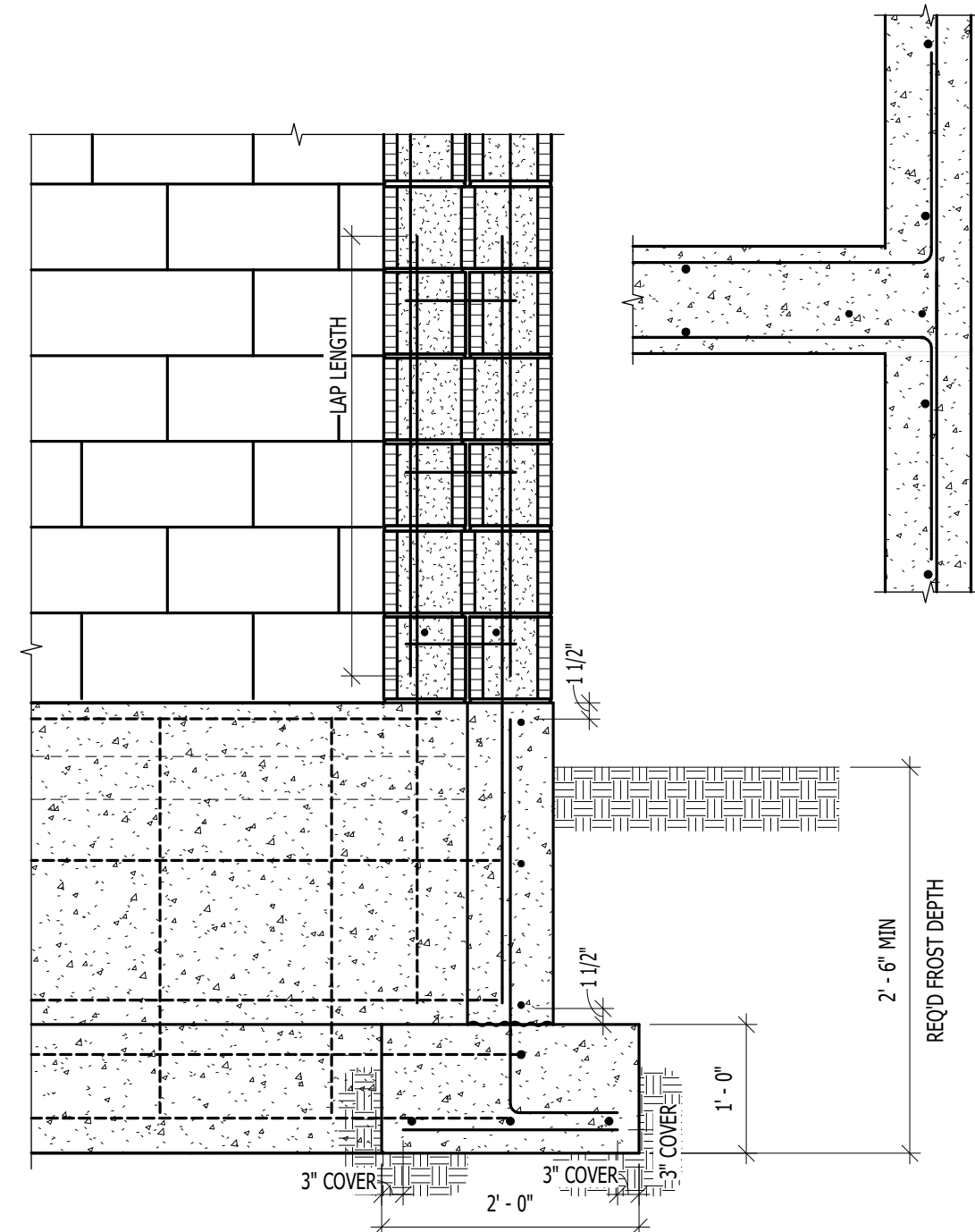
2 FOUNDATION WALL AT DOOR  
09S902 NO SCALE:



3 FOUNDATION WALL  
09S902 NO SCALE:

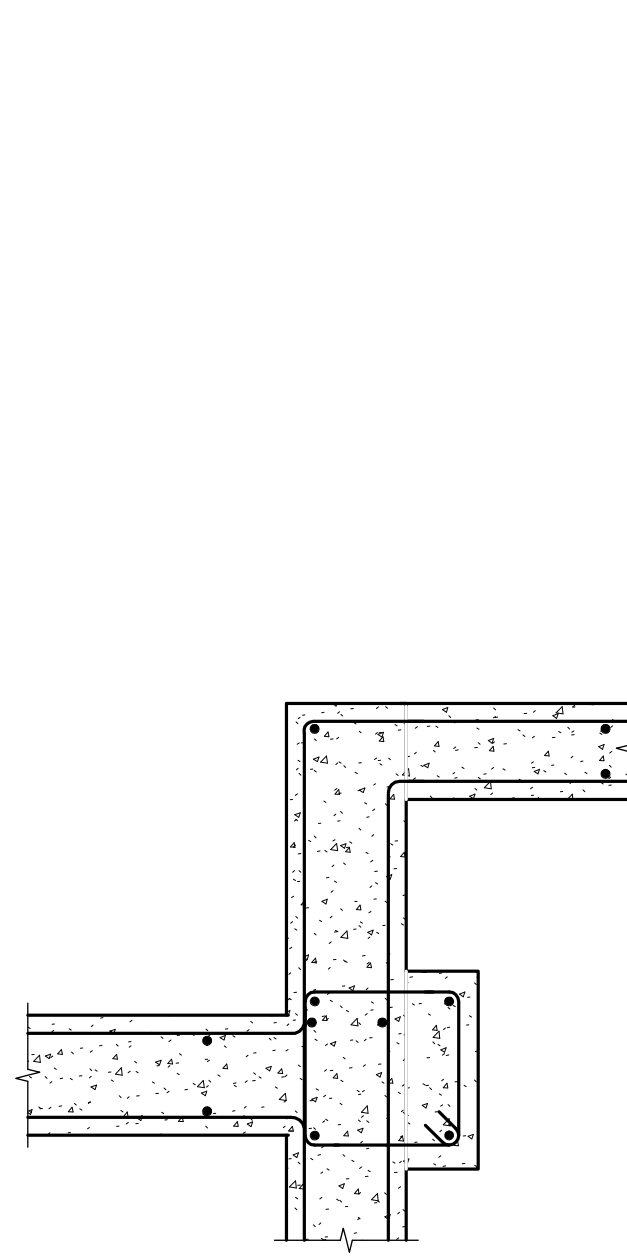


4 FOOTING AT INTERIOR COLUMN  
09S902 NO SCALE:



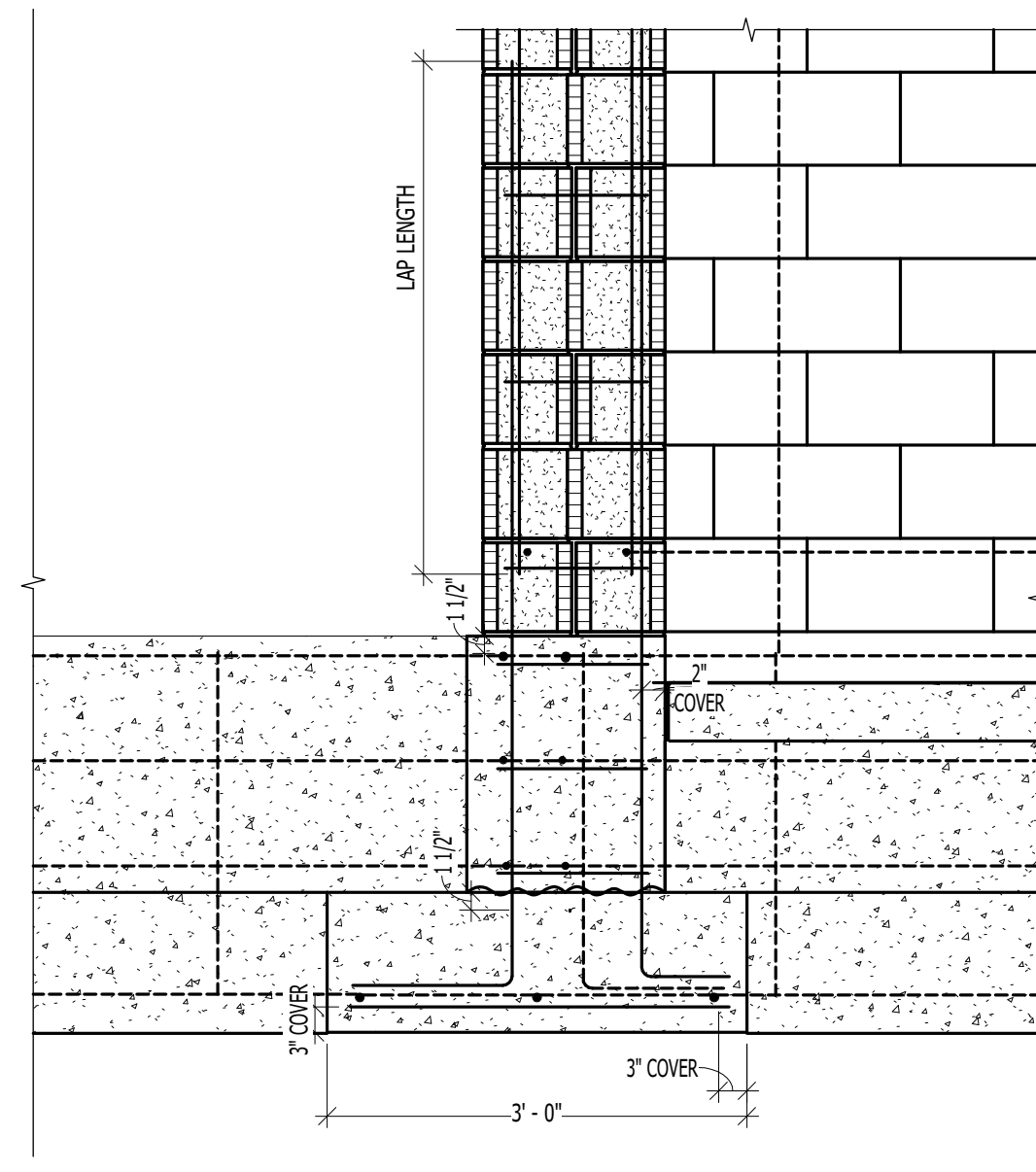
NOTE: CONTRACTOR SHALL VERIFY AND COMPARE ALL FINAL EXT GRADE EL W/ TOP OF FTG EL NOTED TO INSURE MIN REQD FROST DEPTH IS PROVIDED

5 TYPICAL CMU WALL INTERSECTION FOOTING DETAIL  
09S902 NO SCALE:

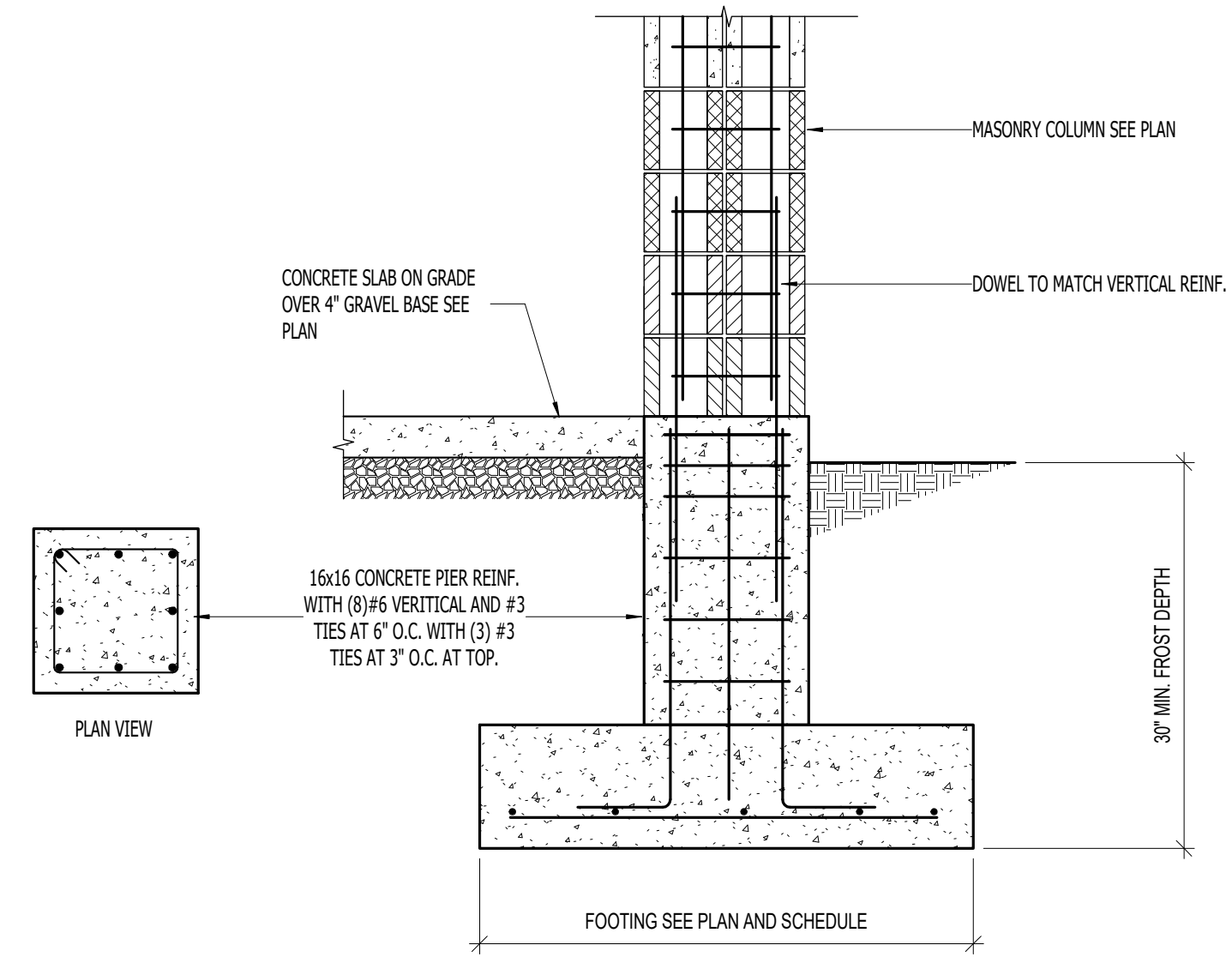
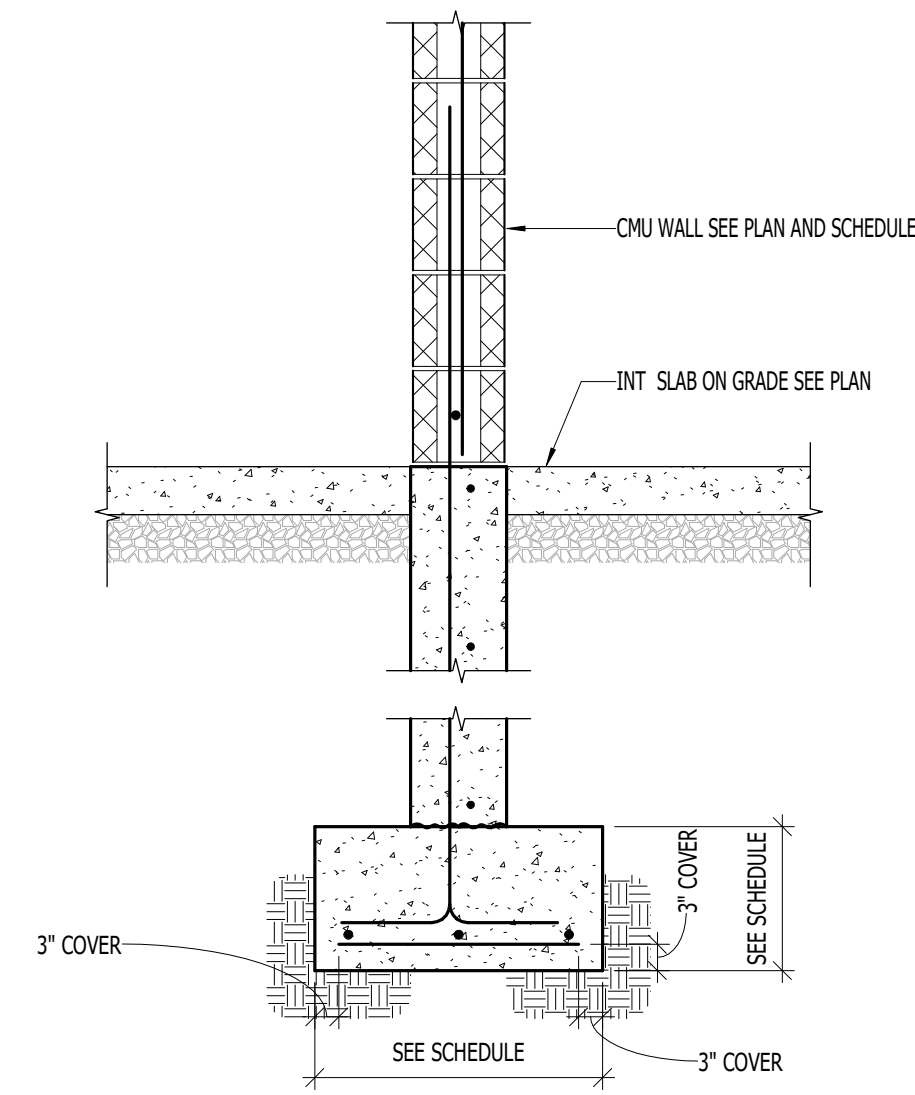


NOTE: CONTRACTOR SHALL VERIFY AND COMPARE ALL FINAL EXT GRADE EL W/ TOP OF FTG EL NOTED TO INSURE MIN REQD FROST DEPTH IS PROVIDED

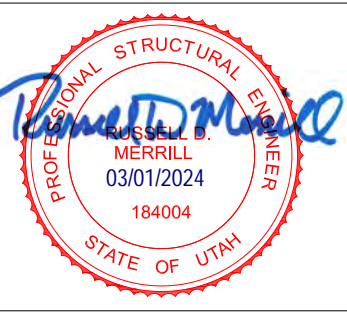
6 EXTERIOR MASONRY COLUMN  
09S902 NO SCALE:



7 INTERIOR CMU WALL DETAIL  
09S902 NO SCALE:



8 MASONRY / CONCRETE PIER DETAIL  
09S902 NO SCALE:

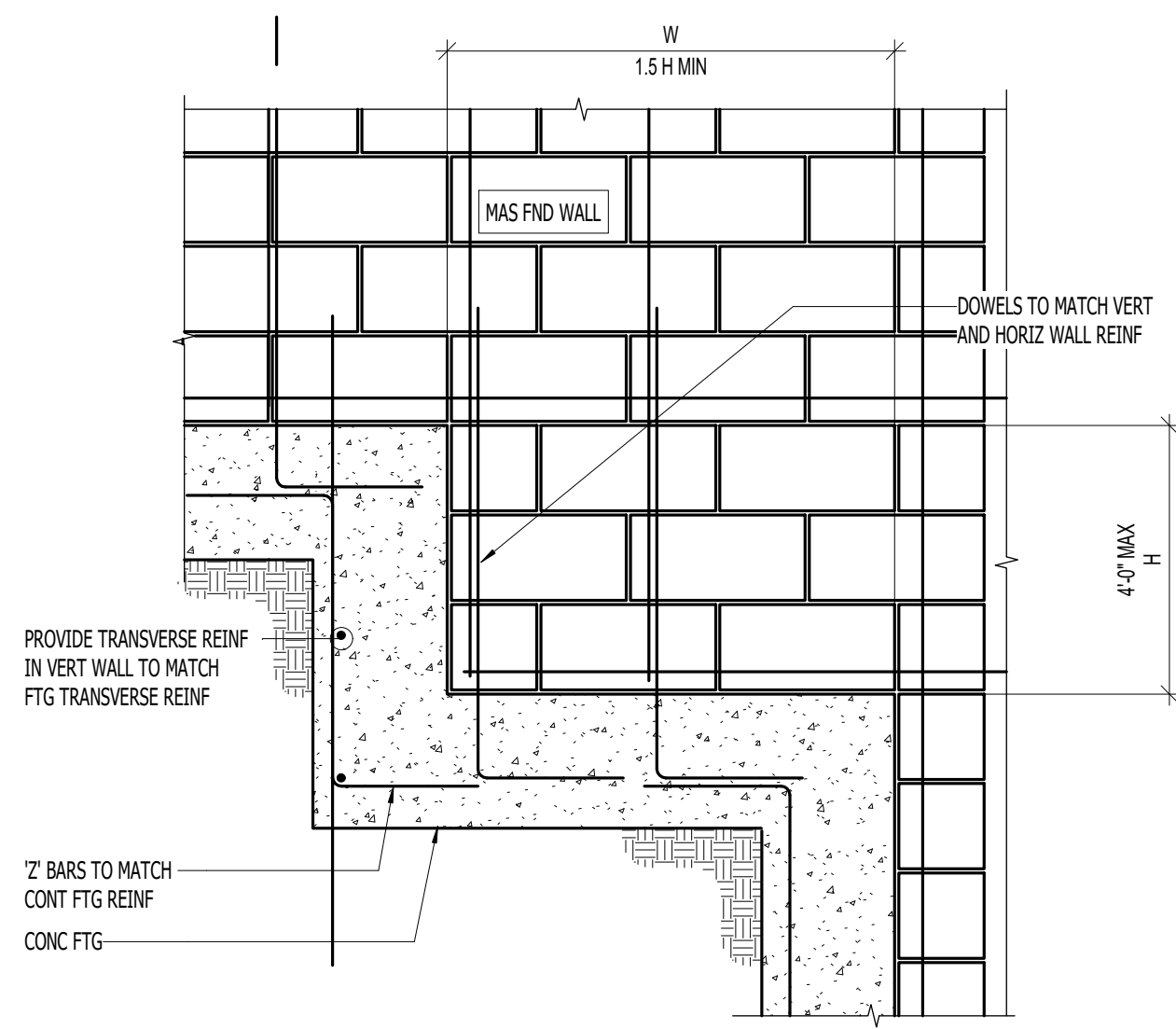


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Project  
24-001  
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SOUTH DAVIS SEWER DISTRICT  
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WEST BOUNTIFUL, UTAH

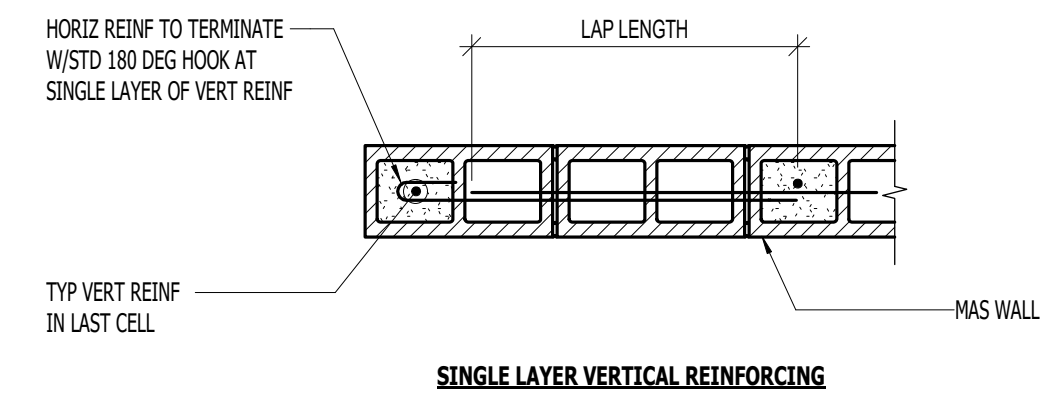
Date	Revisions
3/01/24	

09S902



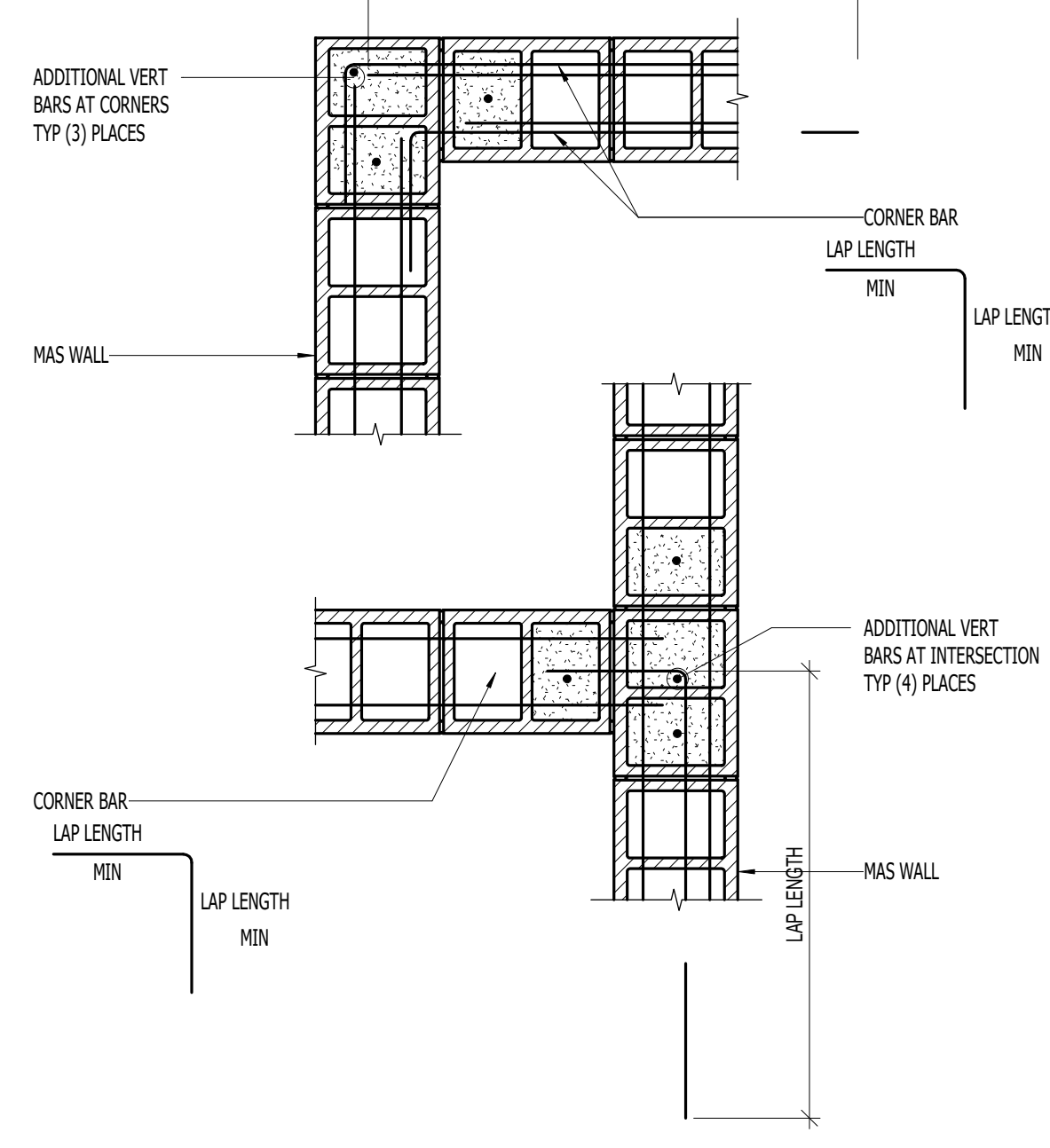
1 TYPICAL FOOTING STEP AT MASONRY FOUNDATION WALL

09S903 NO SCALE:



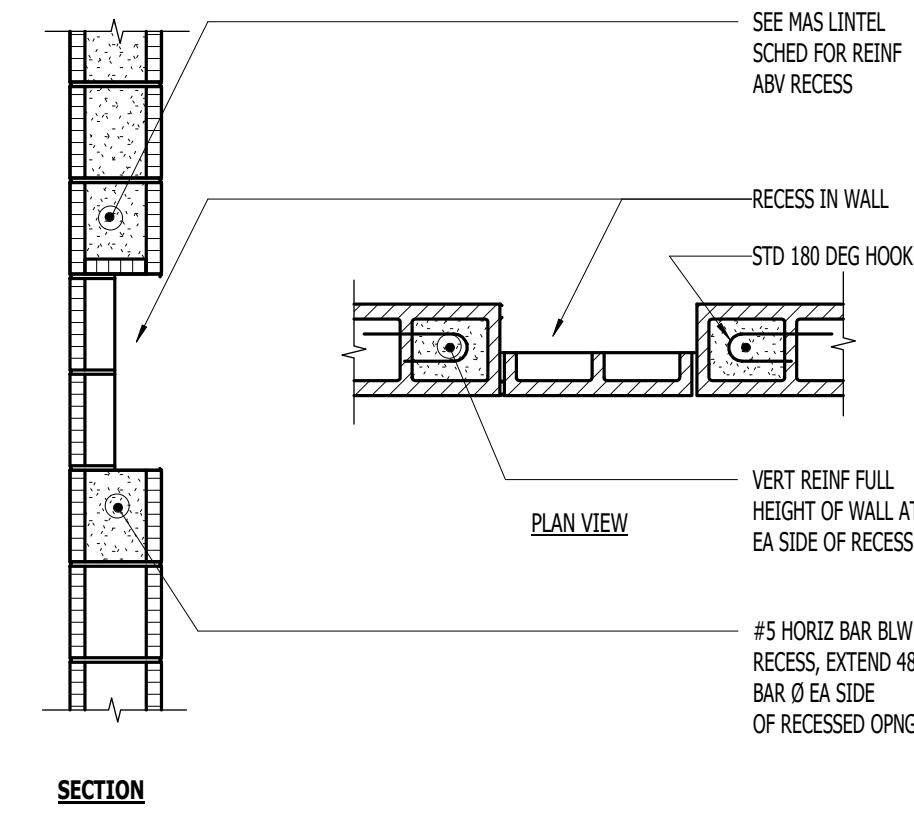
2 TYPICAL CORNER WALL REINFORCING FOR SINGLE REINFORCED MASONRY WALLS (PLAN VIEW)

09S903 NO SCALE:



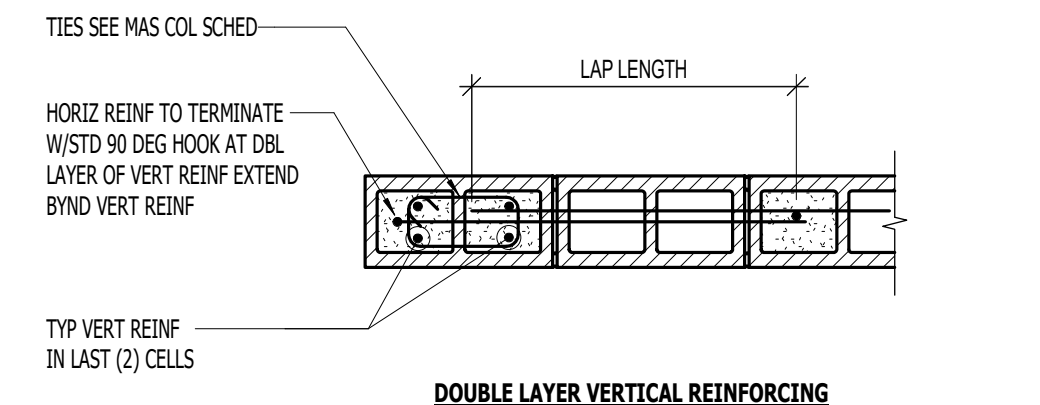
3 TYPICAL CORNER WALL REINFORCING FOR DOUBLE REINFORCED MASONRY WALLS (PLAN VIEW)

09S903 NO SCALE:



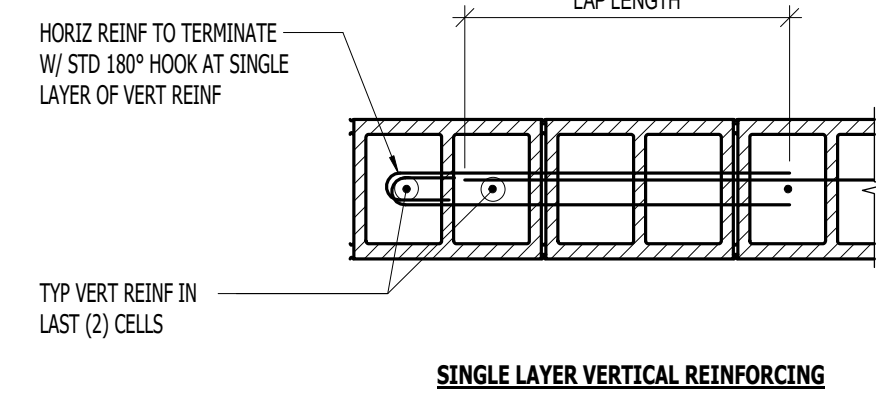
4 TYPICAL MASONRY WALL RECESS DETAILS FOR SINGLE REINFORCED MASONRY WALLS (PLAN VIEW)

09S903 NO SCALE:



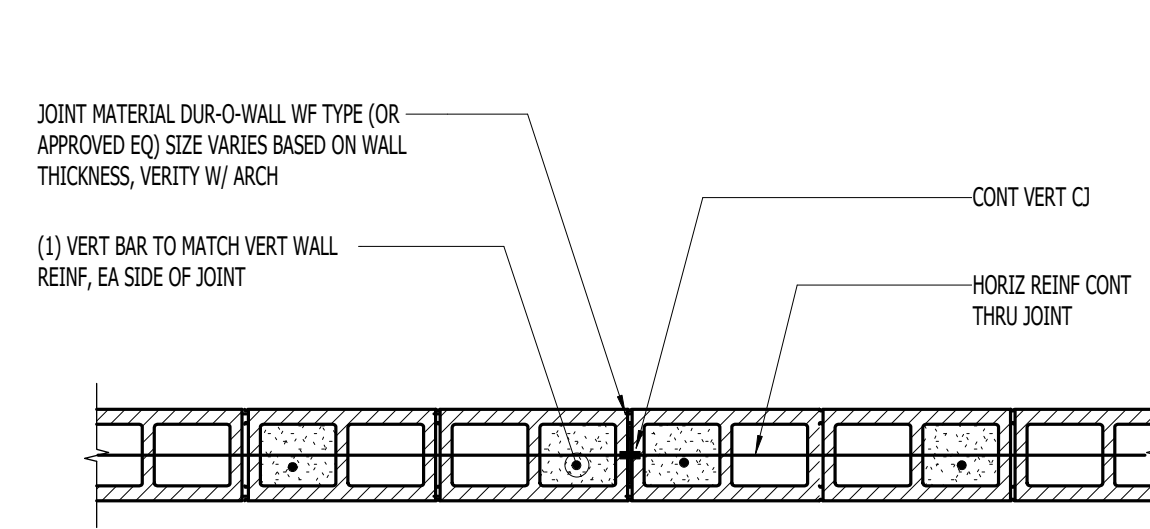
5 TYPICAL TERMINATION OF HORIZONTAL REINFORCING FOR DOUBLE REINFORCED MASONRY WALLS (PLAN VIEW)

09S903 NO SCALE:



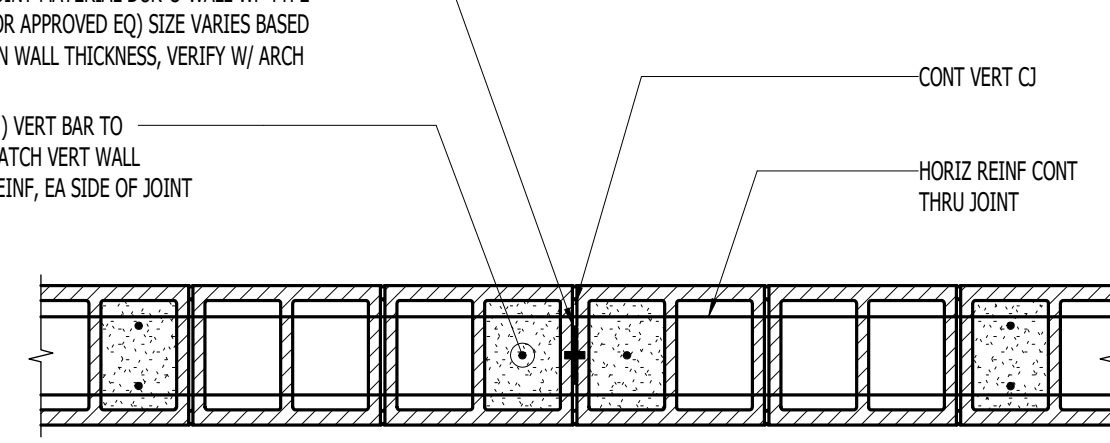
6 TYPICAL TERMINATION OF HORIZONTAL REINFORCING FOR DOUBLE REINFORCED MASONRY WALLS (PLAN VIEW)

09S903 NO SCALE:



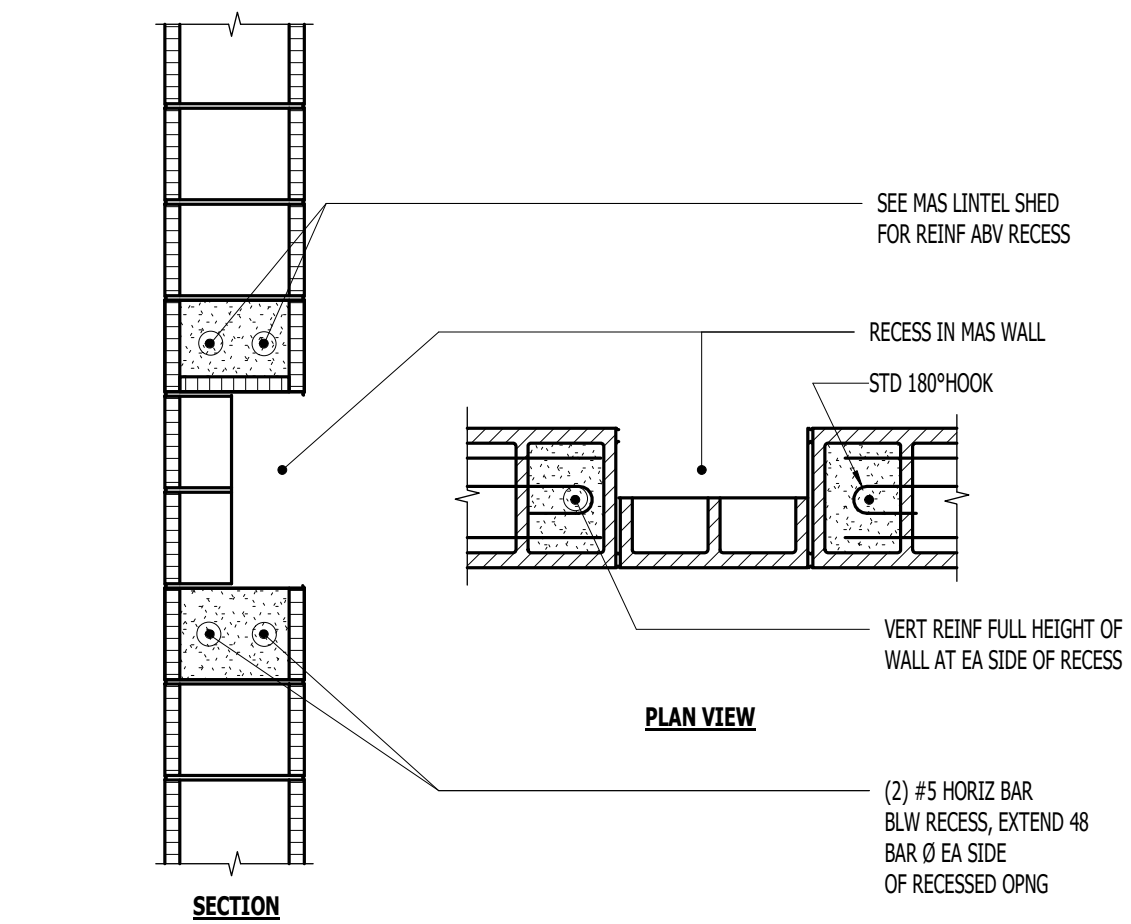
7 TYPICAL CONTROL JOINT FOR SINGLE REINFORCED MASONRY WALLS (PLAN VIEW)

09S903 NO SCALE:



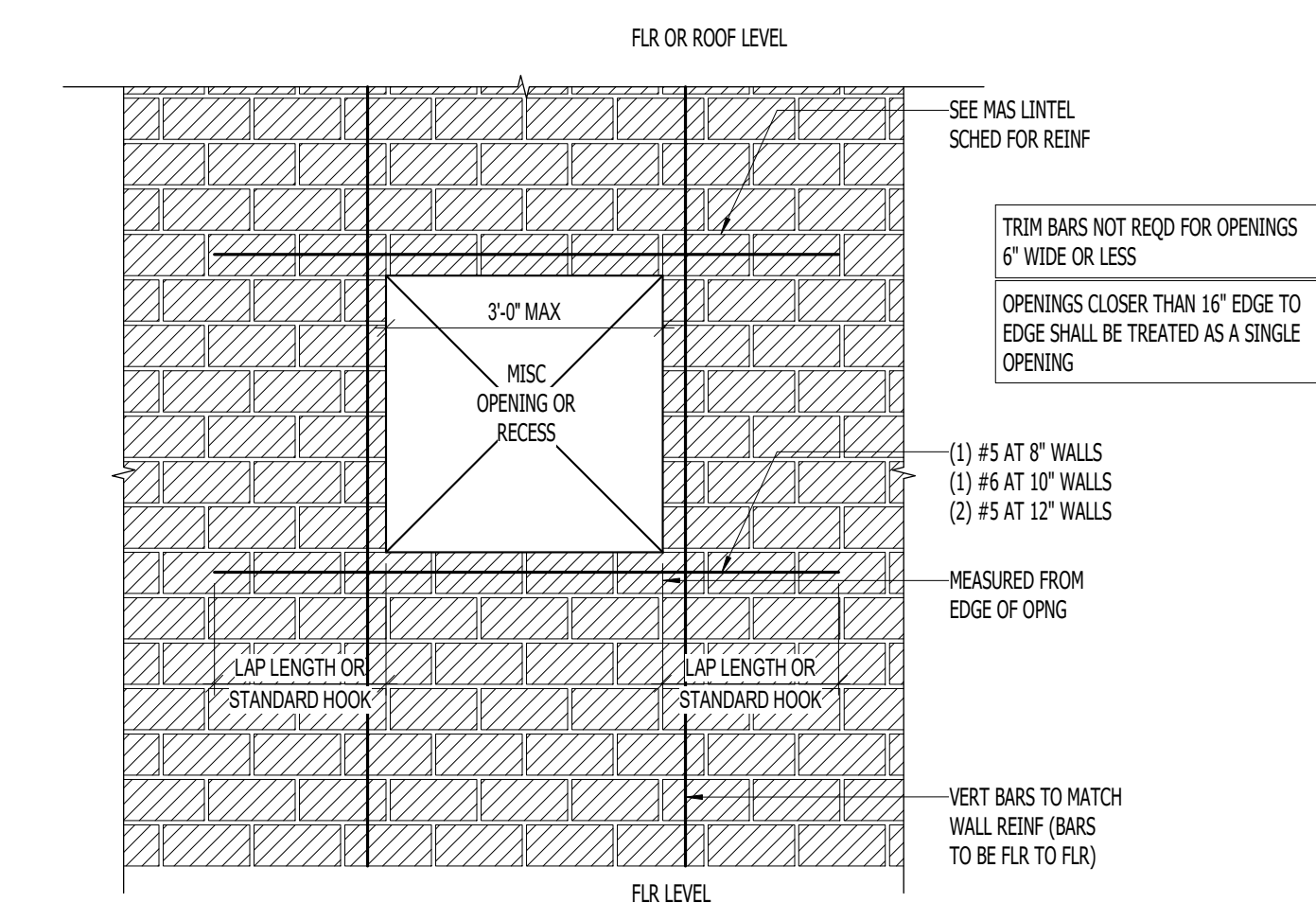
8 TYPICAL CONTROL JOINT FOR DOUBLE REINFORCED MASONRY WALLS (PLAN VIEW)

09S903 NO SCALE:



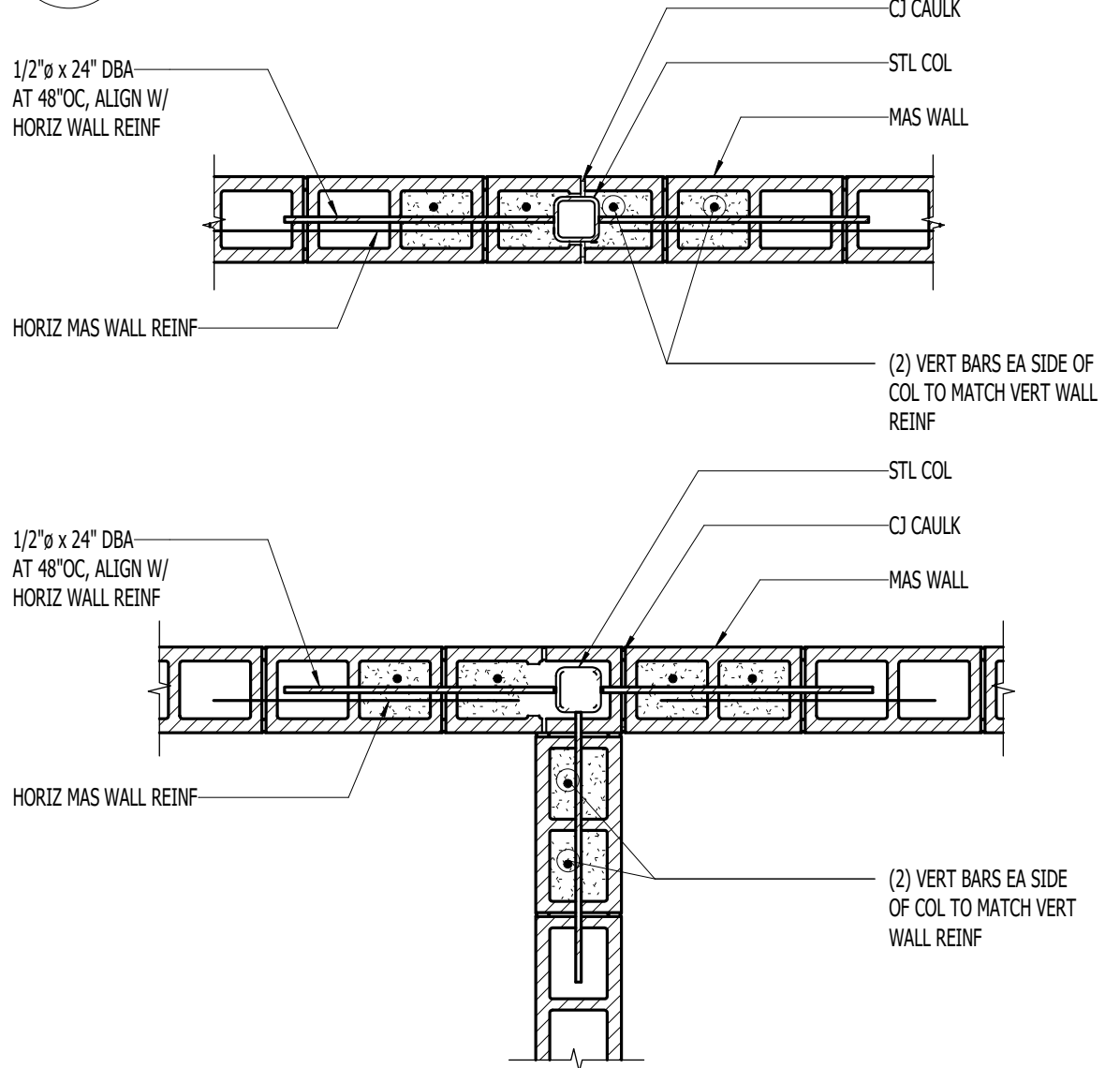
9 TYPICAL MASONRY WALL RECESS DETAILS FOR DOUBLE REINFORCED MASONRY WALLS (PLAN VIEW)

09S903 NO SCALE:



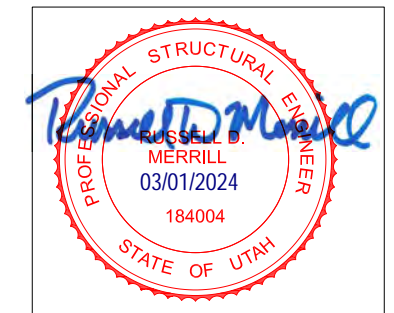
10 TYPICAL REINFORCING DETAIL FOR MISCELLANEOUS MASONRY WALL OPENINGS AND RECESSES

09S903 NO SCALE:



11 TYPICAL STEEL COLUMN IN MASONRY WALL AT SINGLE REINFORCING - (PLAN VIEW)

09S903 NO SCALE:

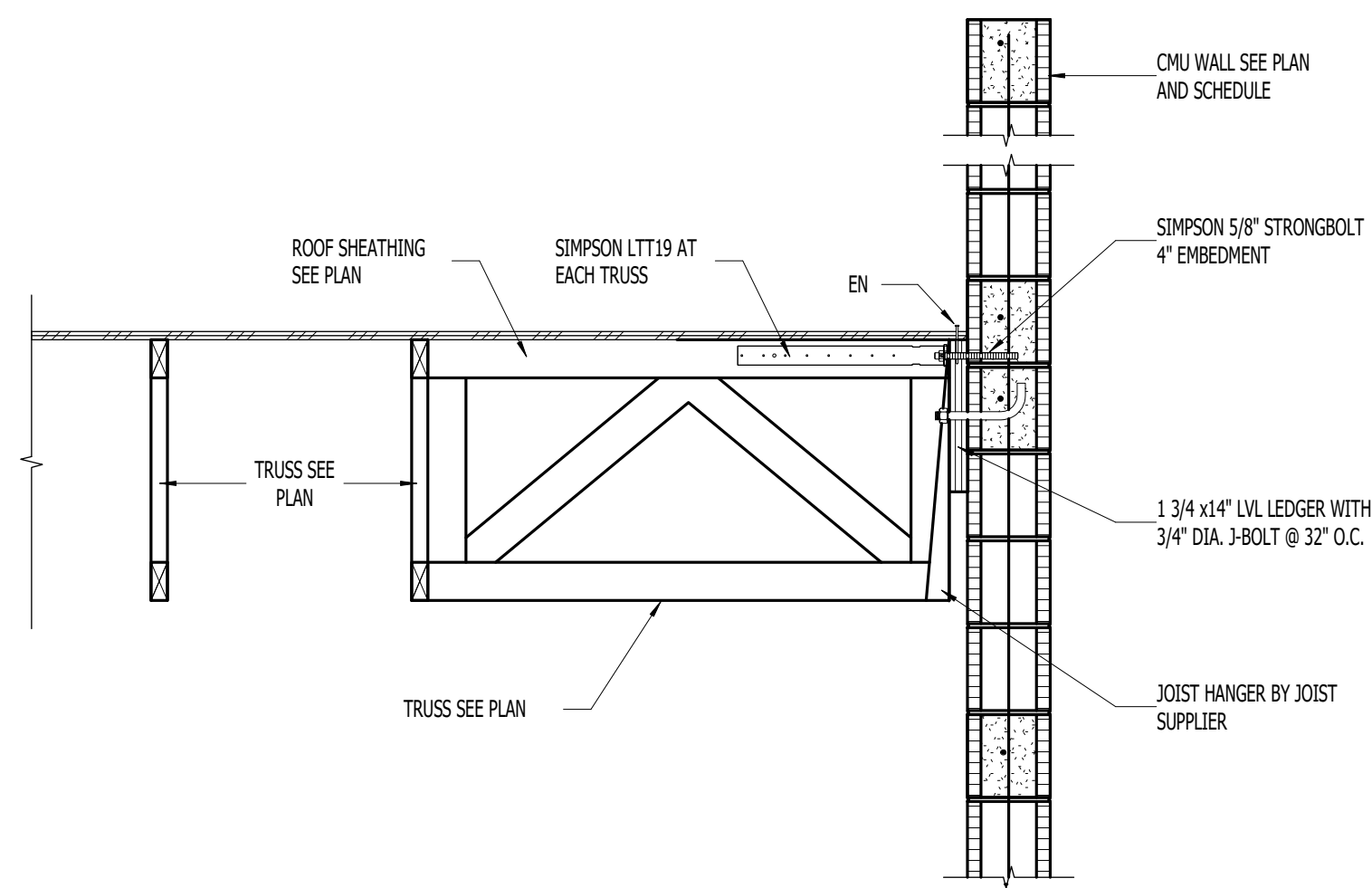


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Project 24-001  
 NORTH PLANT ADMINISTRATION OFFICE BUILDING  
 SOUTH DAVIS SEWER DISTRICT  
 1800 WEST 1200 NORTH  
 WEST BOUNTIFUL, UTAH

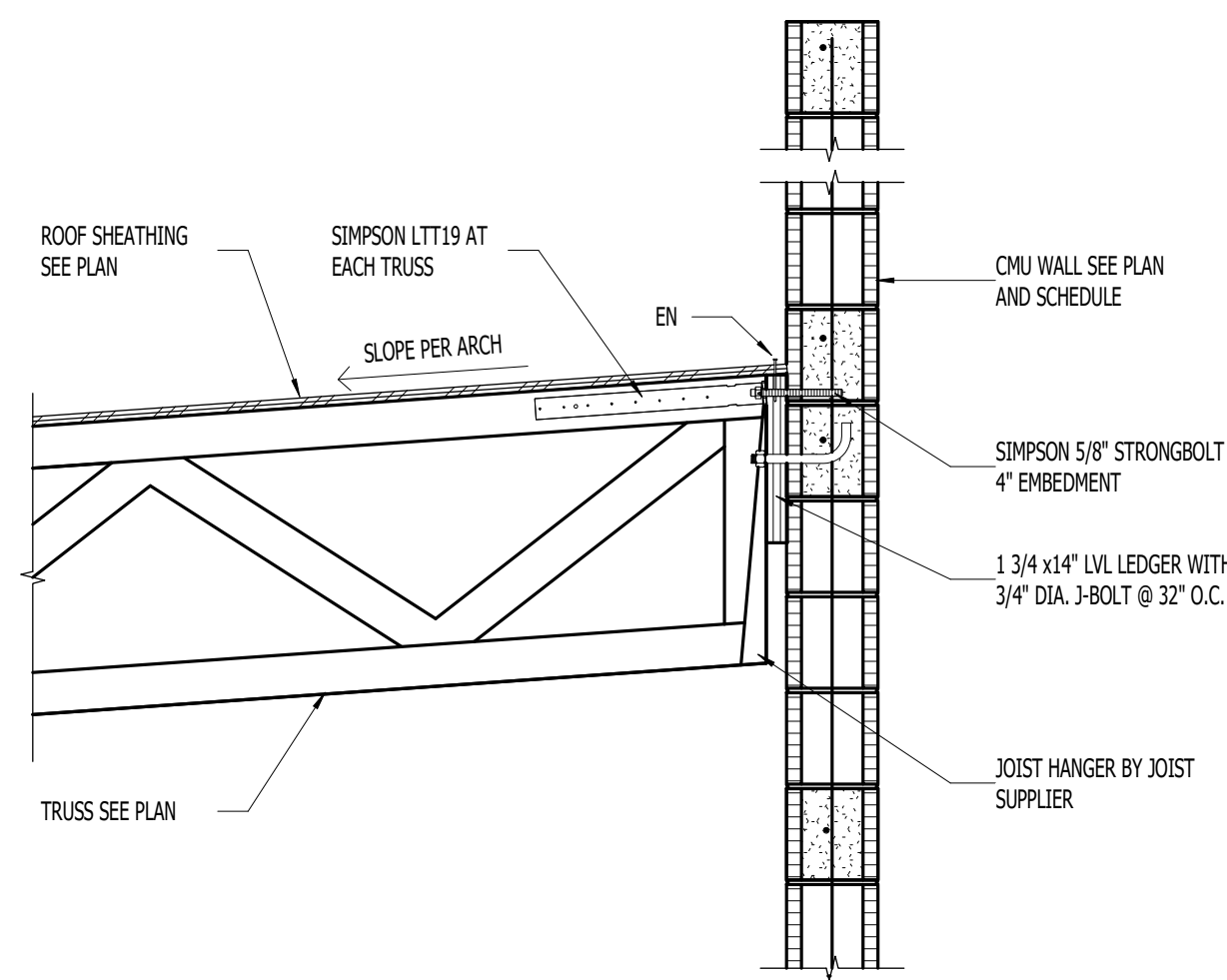
Date	Revisions
3/01/24	

09S903



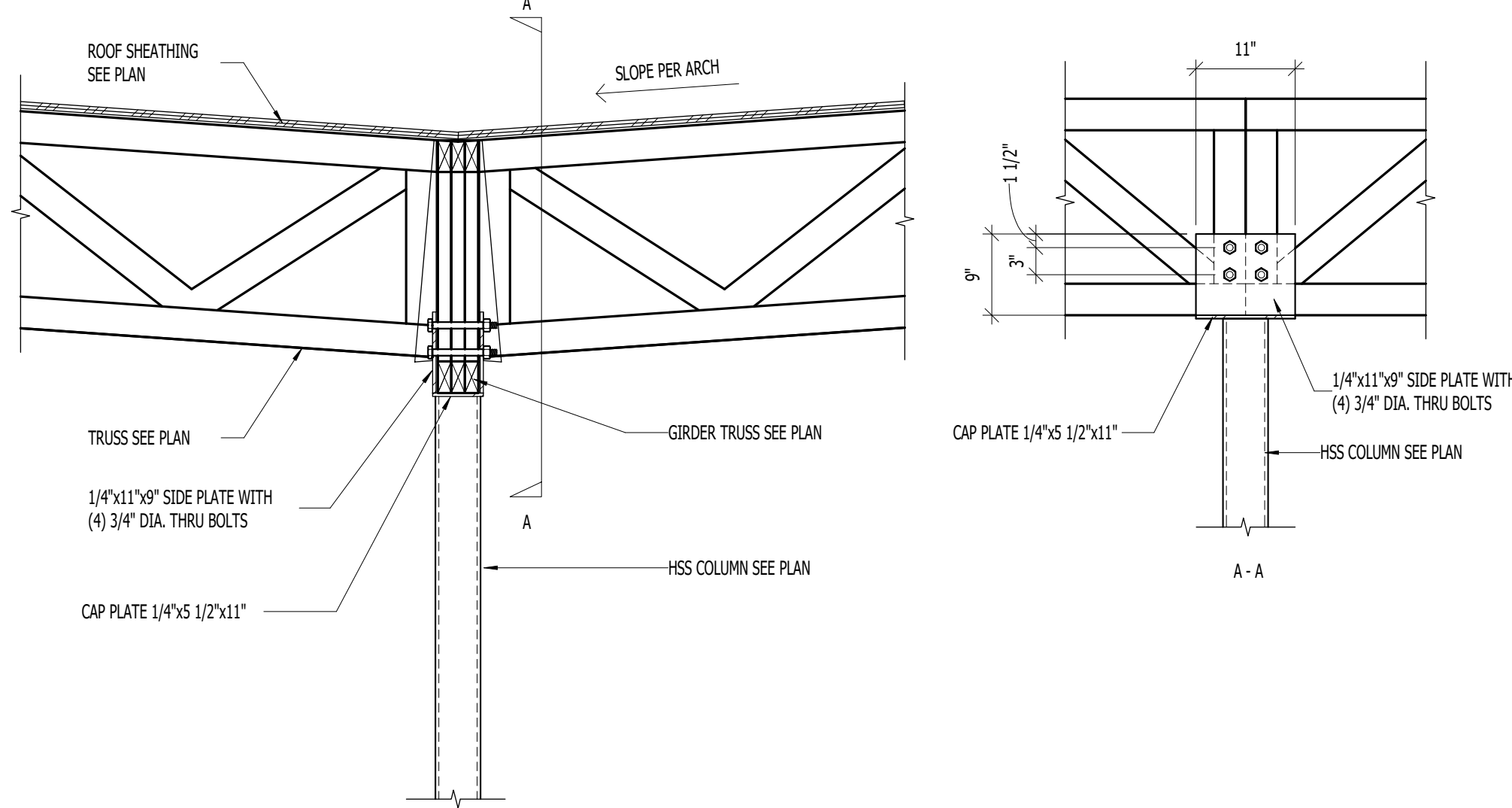
1 TRUSS AT MASONRY WALL DETAIL

09S904 NO SCALE:



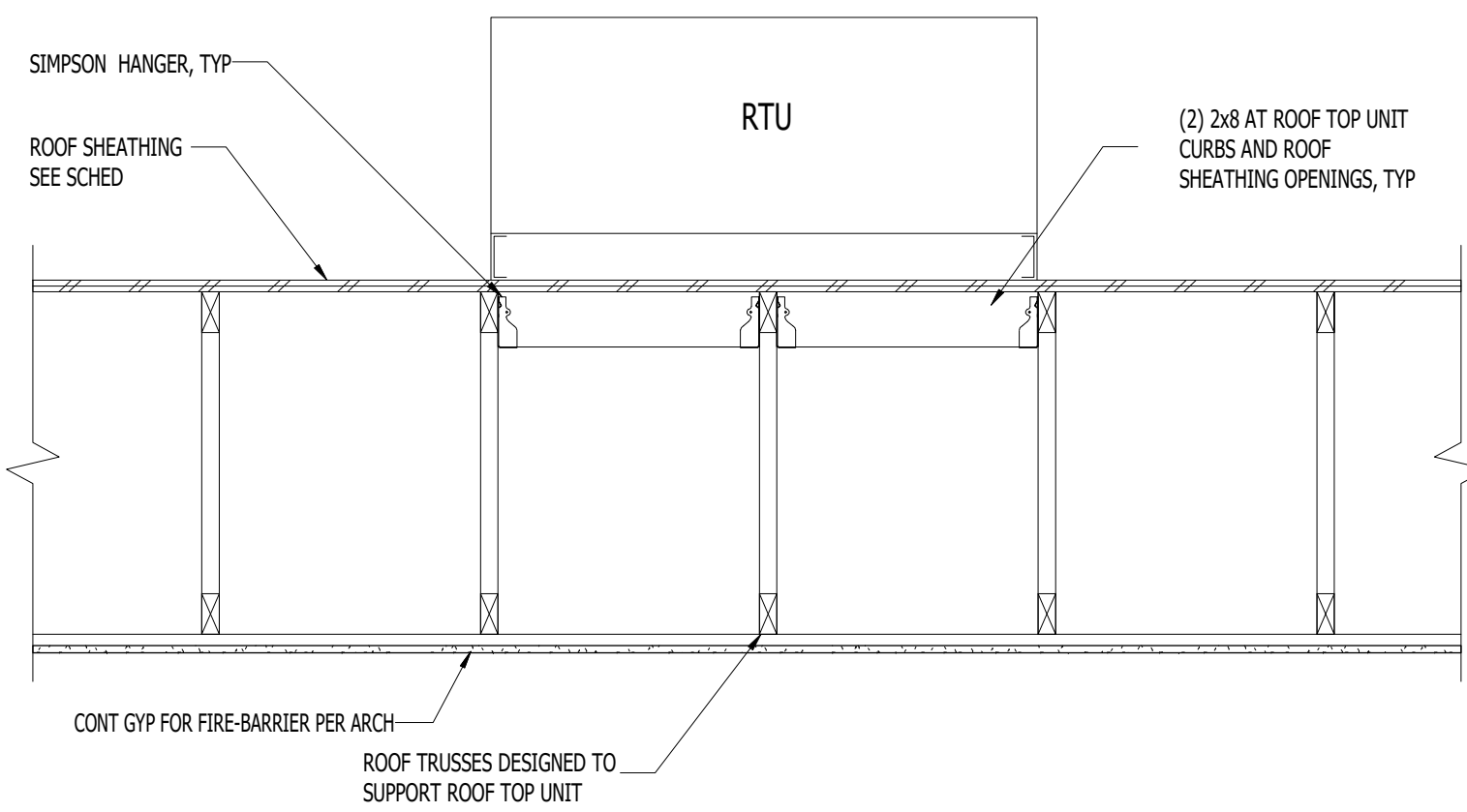
2 TRUSS AT MASONRY WALL DETAIL

09S904 NO SCALE:



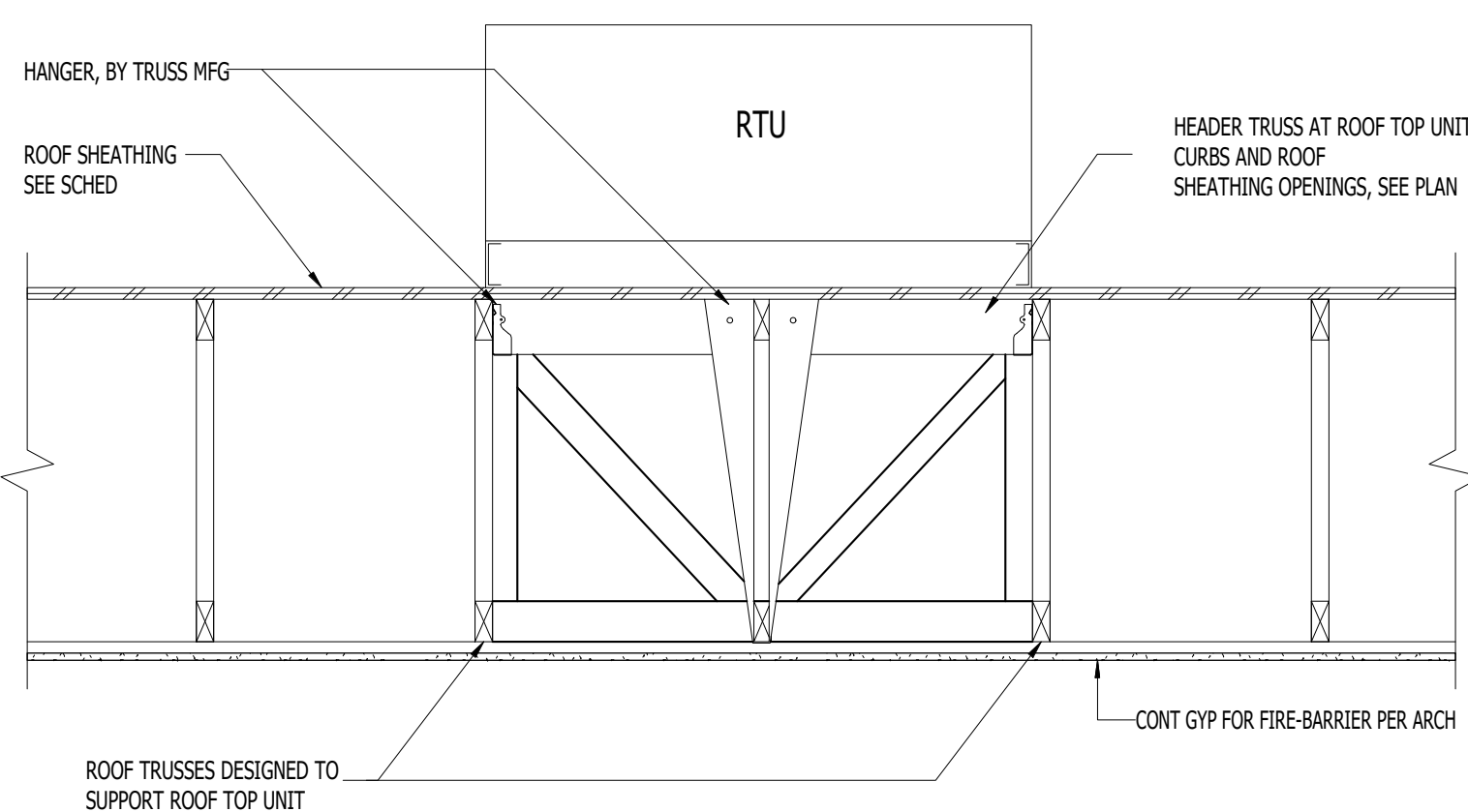
3 GIRDER TRUSS BEARING DETAIL

09S904 NO SCALE:



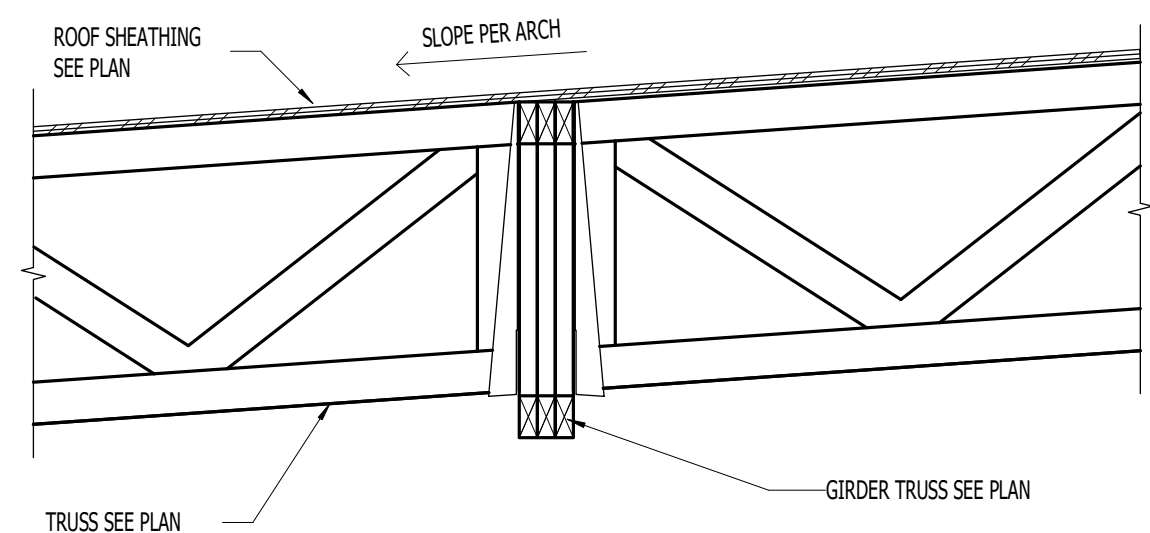
4 TYP RTU SUPPORT DETAIL

09S904 NO SCALE:



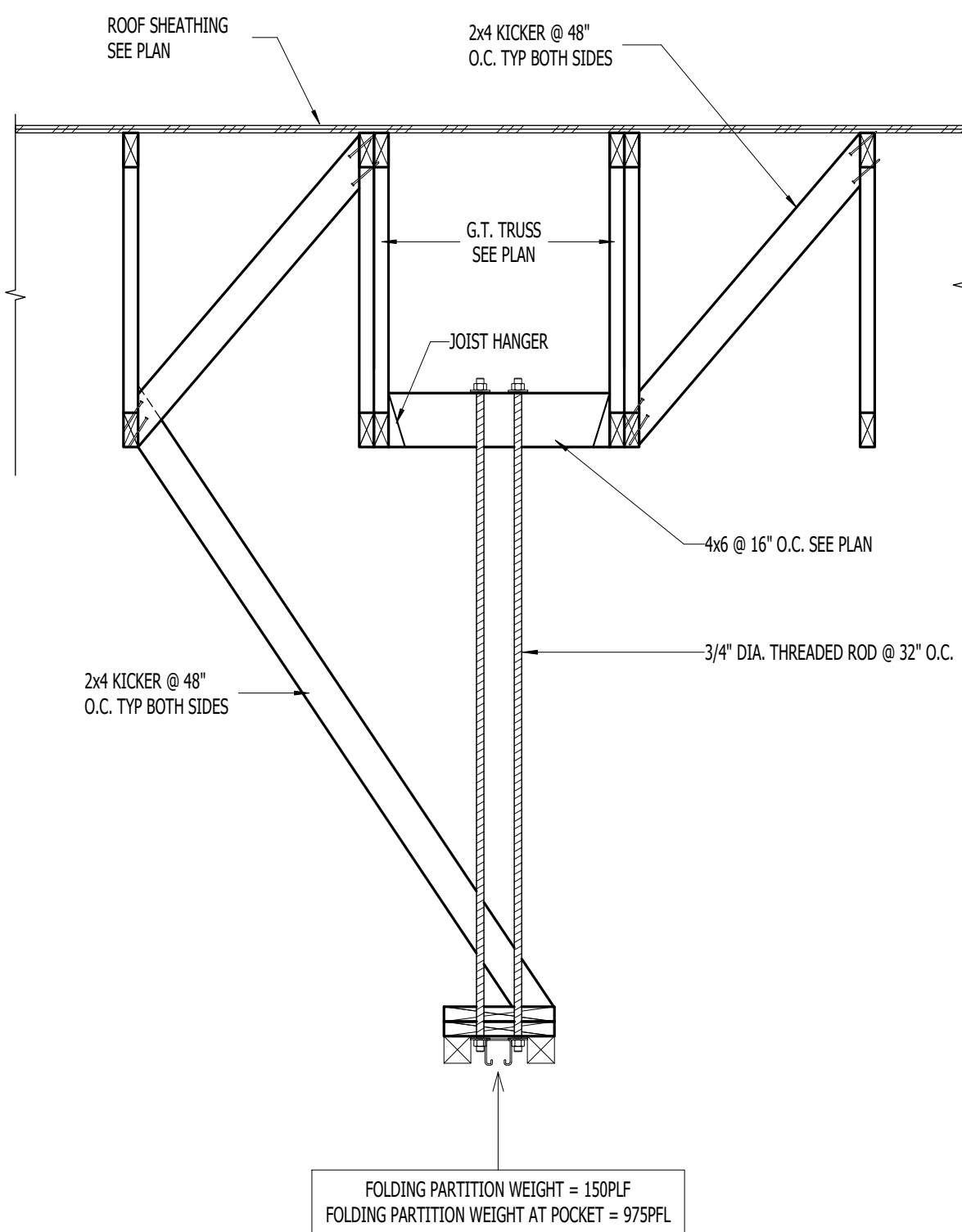
5 TYP RTU SUPPORT DETAIL

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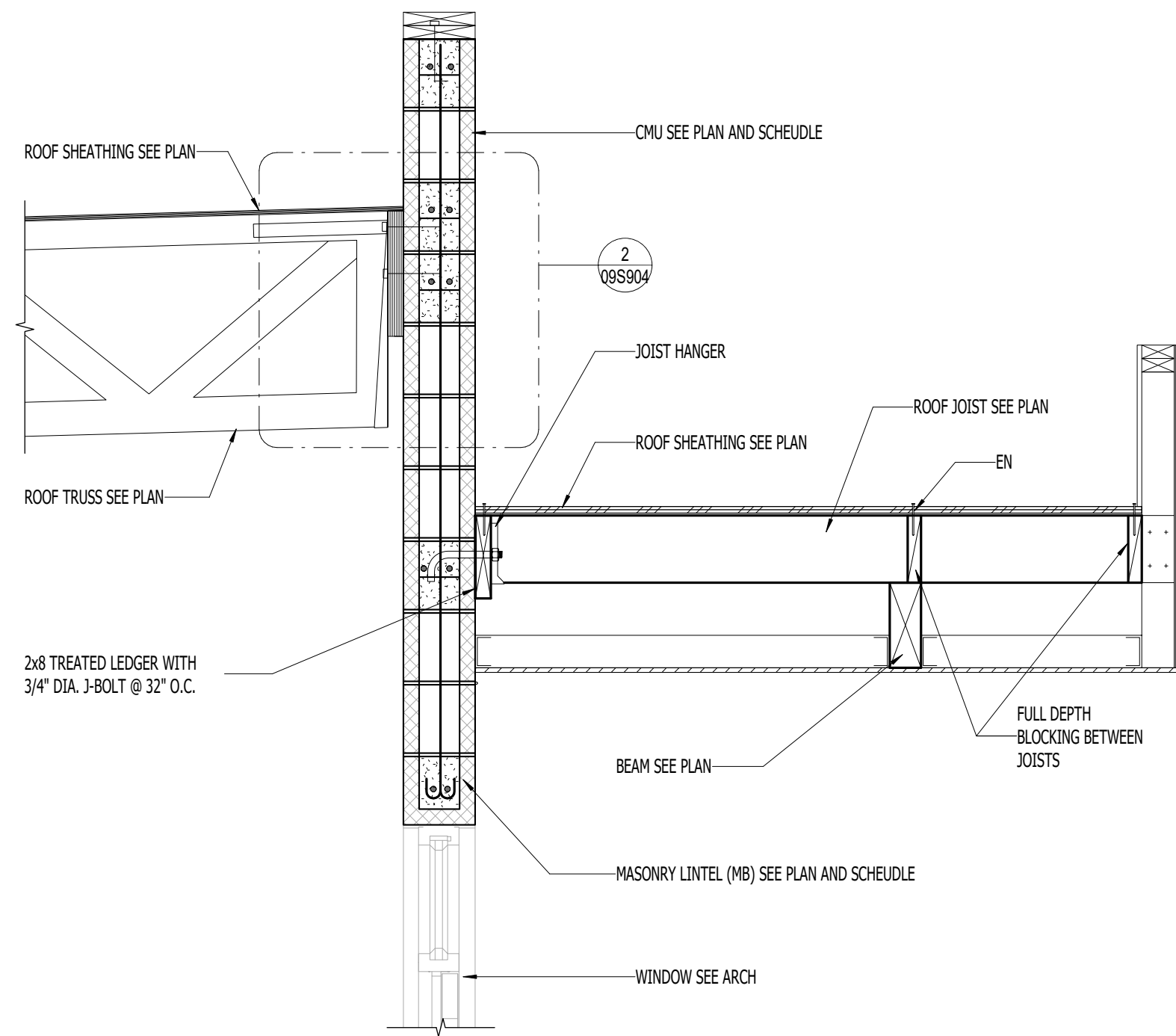
6 GIRDER TRUSS BEARING DETAIL

09S904 NO SCALE:



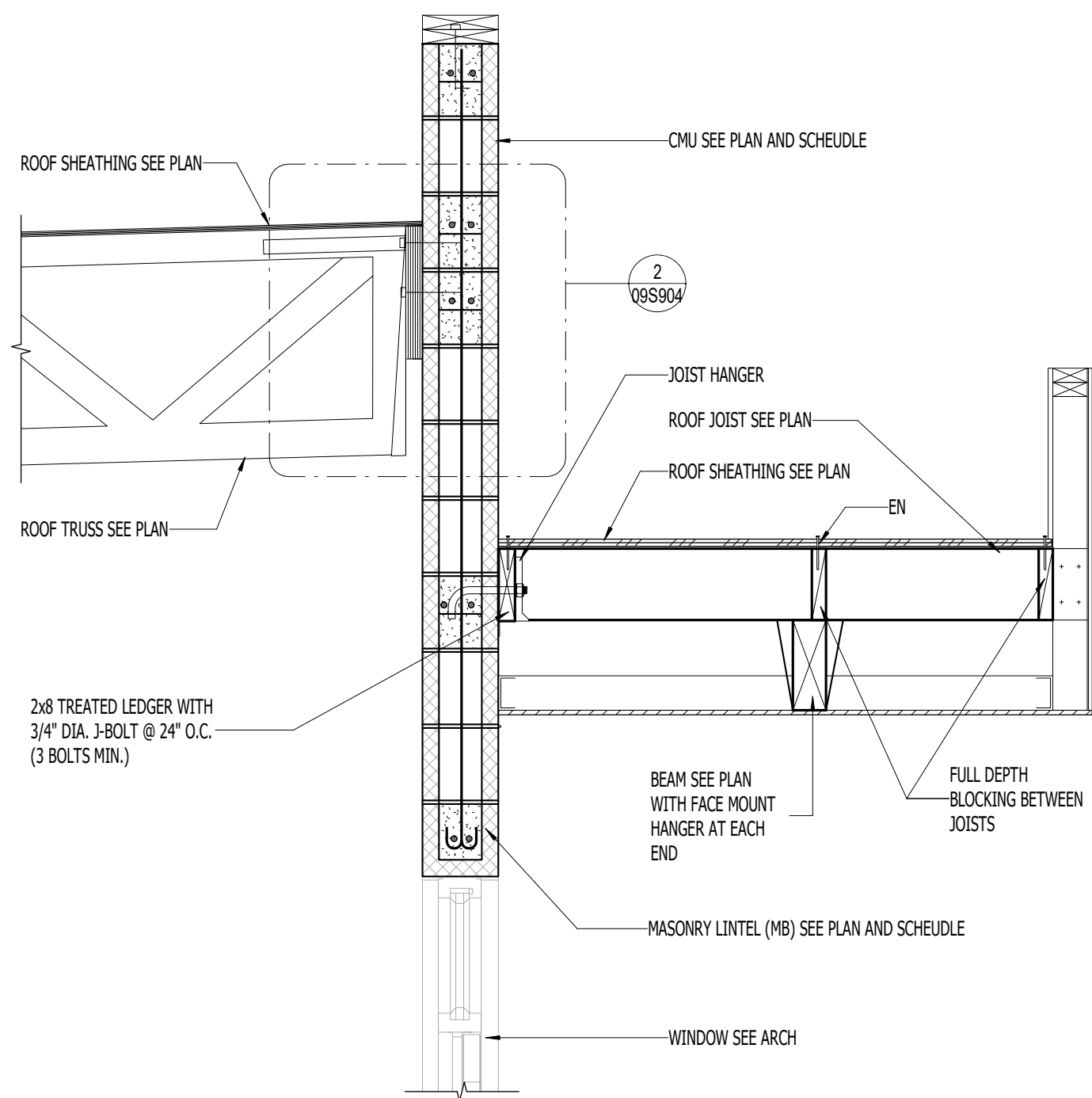
7 ACCORDION DOOR SUPPORT DETAIL

09S904 NO SCALE:



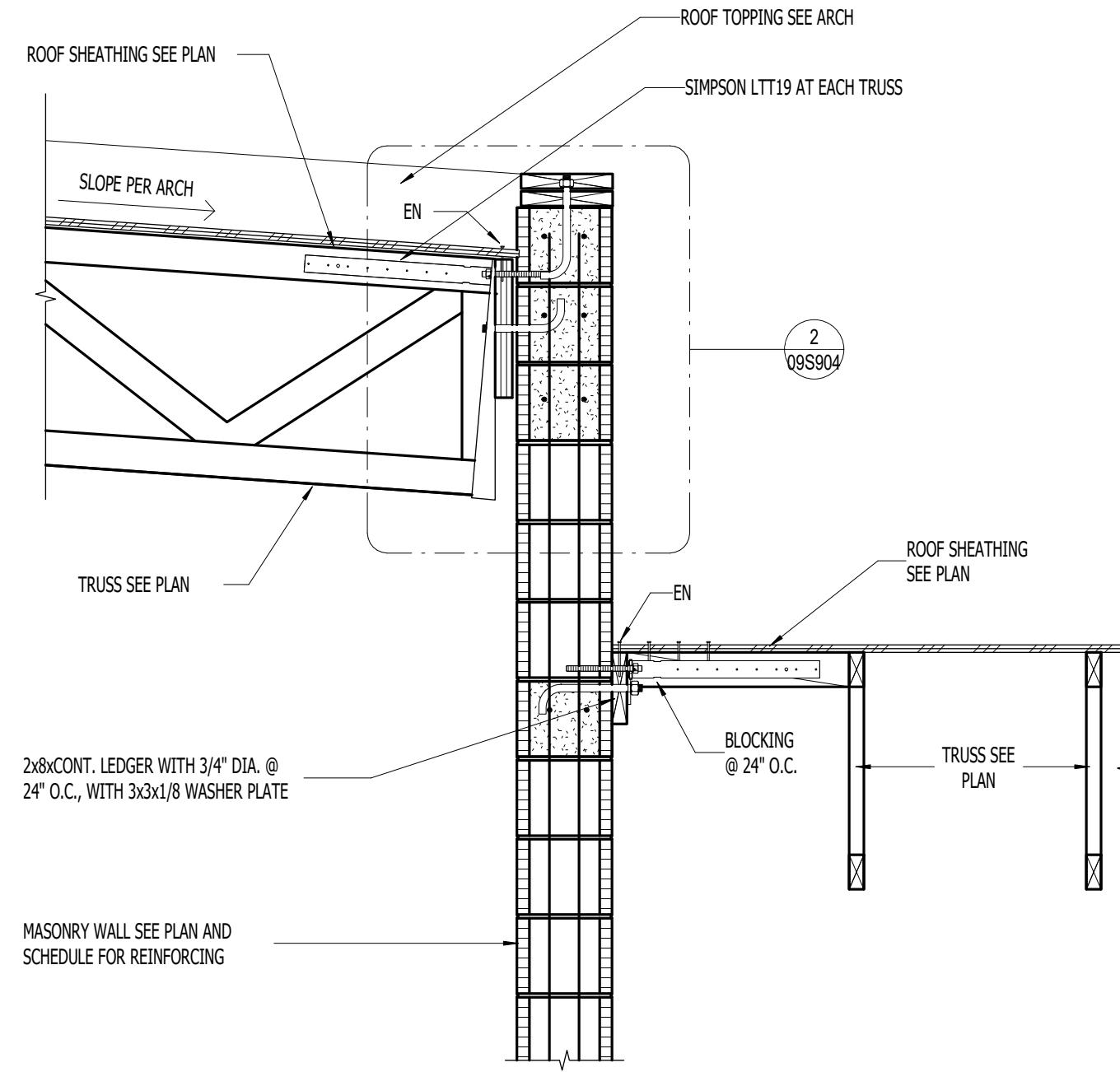
8 ENTRY ROOF DETAIL

09S904 NO SCALE:



9 ENTRY ROOF DETAIL

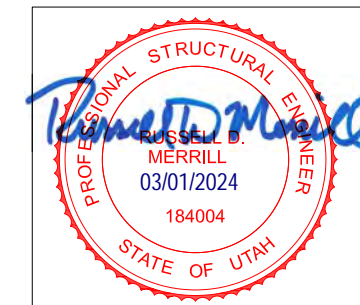
09S904 NO SCALE:



10 TRUSS AT MASONRY WALL DETAIL

09S904 NO SCALE:

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 Architecture - Planning  
 18901 East Lark Drive  
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 801 - 860 - 8905 e-mail: jglascock@mtcon.net



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Project 24-001  
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 SOUTH DAVIS SEWER DISTRICT  
 1800 WEST 1200 NORTH  
 WEST BOUNTIFUL, UTAH

Date	Revisions																				
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09S904																					

STEEL COLUMN SCHEDULE				
MARK	SIZE	STEEL BASE PLATE	STEEL CAP PLATE THICKNESS	COMMENTS
SC-1	HSS5x5x1/4"	3/4" (SBP - 1)	3/4"	SEE 41095902

**STEEL COLUMN NOTES:**

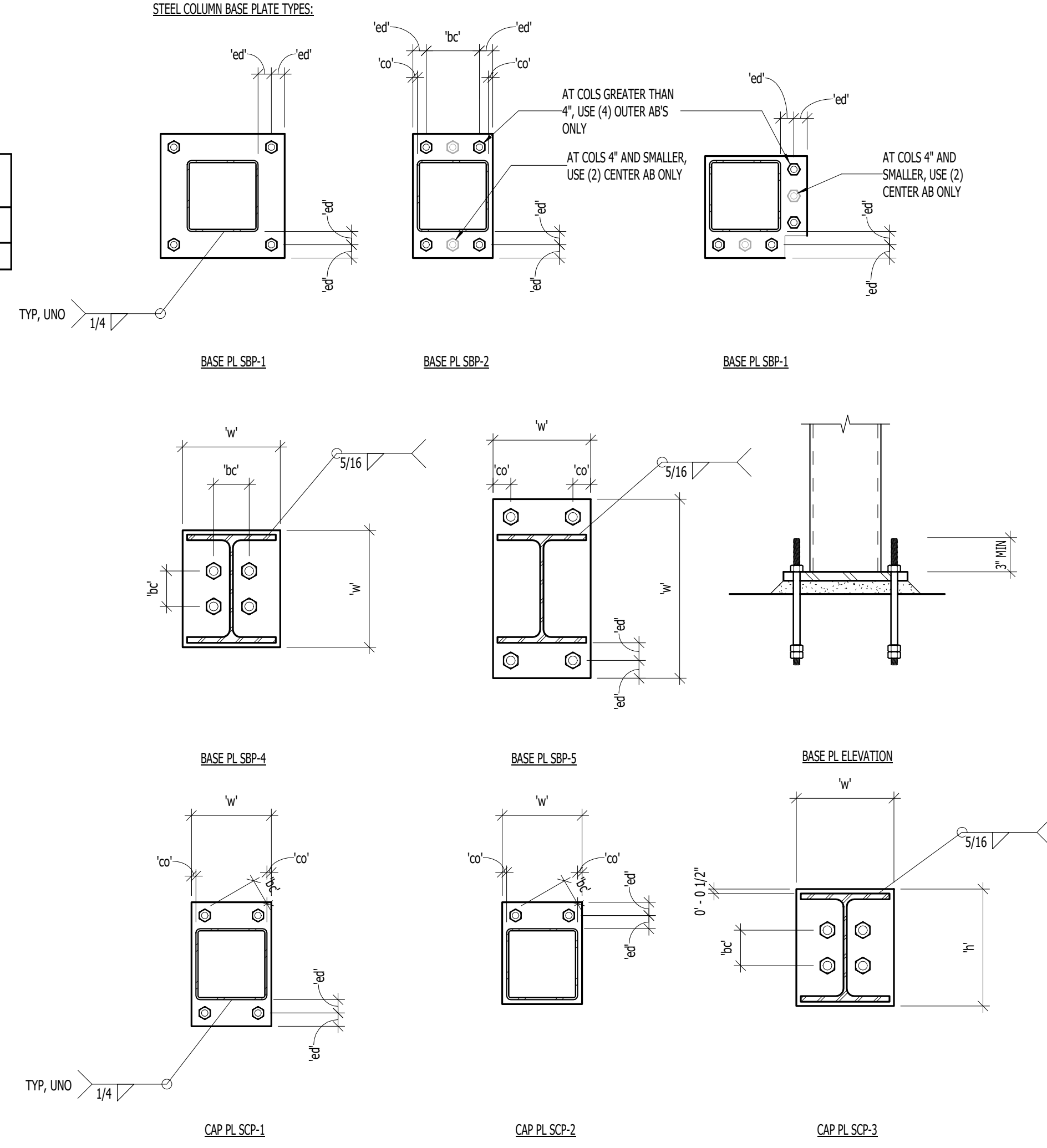
- UNLESS NOTED OTHERWISE, ALL COLUMNS SHALL BE INSTALLED WITH 3/4"Ø HEADED (OR DOUBLE NUT) ANCHOR BOLTS. PROJECT ANCHOR BOLTS 3" MINIMUM ABOVE THE TOP OF THE BASE PLATE. EMBEDMENT SHALL BE 9" MINIMUM. ALL BOLTS SHALL BE INSTALLED WITH HARDENED WASHERS BENEATH THE NUT. ANY BOLT HOLES LARGER THAN THE BOLT DIAMETER PLUS 5/16" SHALL HAVE A PLATE WASHERS INSTALLED BENEATH THE HARDENED WASHERS.
- ANCHOR BOLTS SHALL NOT BE WELDED (INCLUDING TACK WELDS).
- IF DESIRED SPLICE LOCATIONS DIFFER FROM THOSE LEVELS SHOWN ON PLAN, NOTIFY STRUCTURAL ENGINEER PRIOR TO FABRICATION. WRITTEN APPROVAL REQUIRED.
- ALL CAP PLATE BOLTS SHALL BE 3/4"Ø A325N BOLTS, TYPICAL UNLESS NOTED OTHERWISE.
- SEE (41095902) FOR COLUMNS WRAPPED IN CONCRETE.
- SEE GENERAL STRUCTURAL NOTES FOR OTHER REQUIREMENTS.
- ERECTION AIDS TO BE REMOVED AFTER COLUMN SPLICING.

**BASE PL LEGEND:**

'ca' = 1/2" MINIMUM  
'ed' = 1 1/2" MINIMUM  
'bc' = 3" MINIMUM

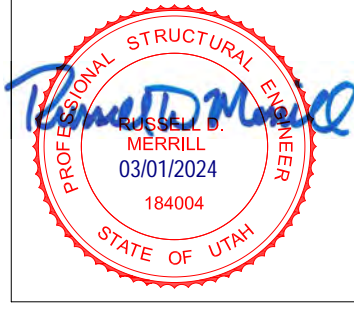
**CAP PL LEGEND:**

'ca' = 1/2" MINIMUM  
'ed' = 1 1/2" MINIMUM  
'bc' = BEAM OR GIRDER GAGE  
'w' = BEAM OR GIRDER GAGE + 3"  
OR  
BEAM OR GIRDER FLANGE  
WIDTH + 1"  
OR  
COLUMN WIDTH + 1"  
WHICHEVER IS GREATER



**2 STEEL COLUMN SCHEDULE**  
00S905 NO SCALE:

**James B. Glascock, Architect P.C.**  
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**Project**  
**24-001**  
**NORTH PLANT ADMINISTRATION OFFICE BUILDING**  
SOUTH DAVIS SEWER DISTRICT  
1800 WEST 1200 NORTH  
WEST BOUNTIFUL, UTAH

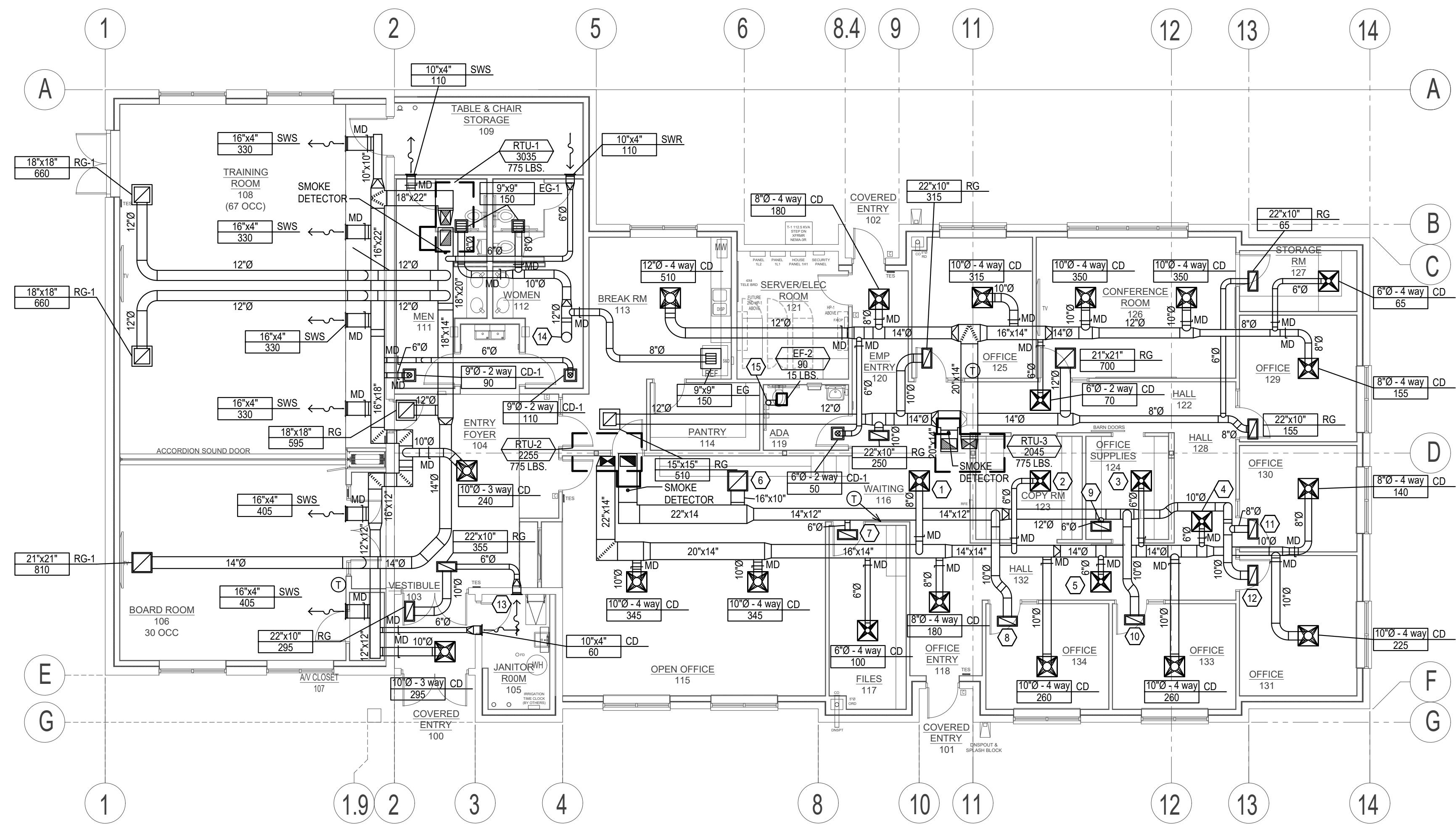
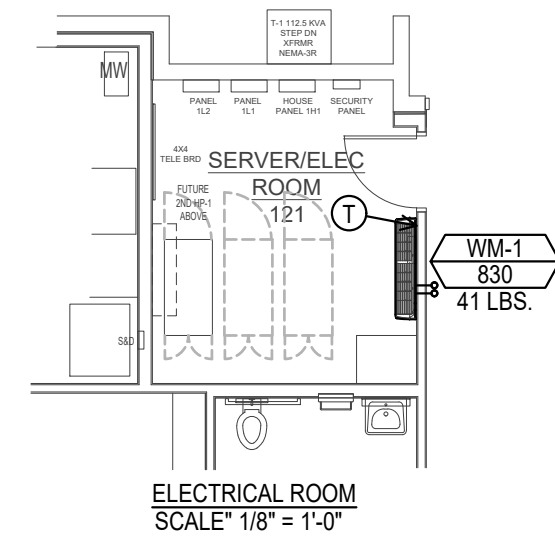
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Date	Revisions
3/01/24	
<b>09S905</b>	



Project  
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 1800 WEST 1200 NORTH  
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Date  
**03/01/24**  
 Revisions  
**09M101**

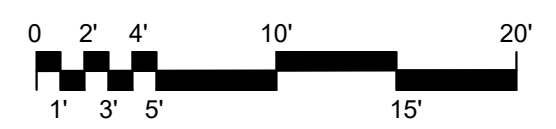


- KEYED NOTES**
- ① 8"Ø - 4 way CD 125
  - ② 6"Ø - 4 way CD 75
  - ③ 6"Ø - 4 way CD 60
  - ④ 6"Ø - 2 way CD 60
  - ⑤ 8"Ø - 2 way CD 80
  - ⑥ 21"x21" RG 1210
  - ⑦ 22"x10" RG 100
  - ⑧ 22"x10" RG 260
  - ⑨ 22"x10" RG 60
  - ⑩ 22"x10" RG 260
  - ⑪ 22"x10" RG 140
  - ⑫ 22"x10" RG 225
  - ⑬ 10"x4" SWR 60
  - ⑭ 12"Ø EXHAUST DUCT UP TO EF-1 WITH BACKDRAFT DAMPER AT THE ROOF LINE.
  - ⑮ 6"Ø EXHAUST DUCT UP TO ROOF JACK WITH BACKDRAFT DAMPER

NOTE:  
 THE HVAC CONTRACTOR TO COORDINATE ALL OPENING THRU THE CMU WALL. THE SIZE AND ELEVATIONS LISTED ON THIS DRAWING ARE ONLY ESTIMATES AND SHOW NOTHING ABOUT THE WAY THE MASON CONTRACTOR WILL INSTALL THE WALL.

# FLOOR PLAN - MECHANICAL

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

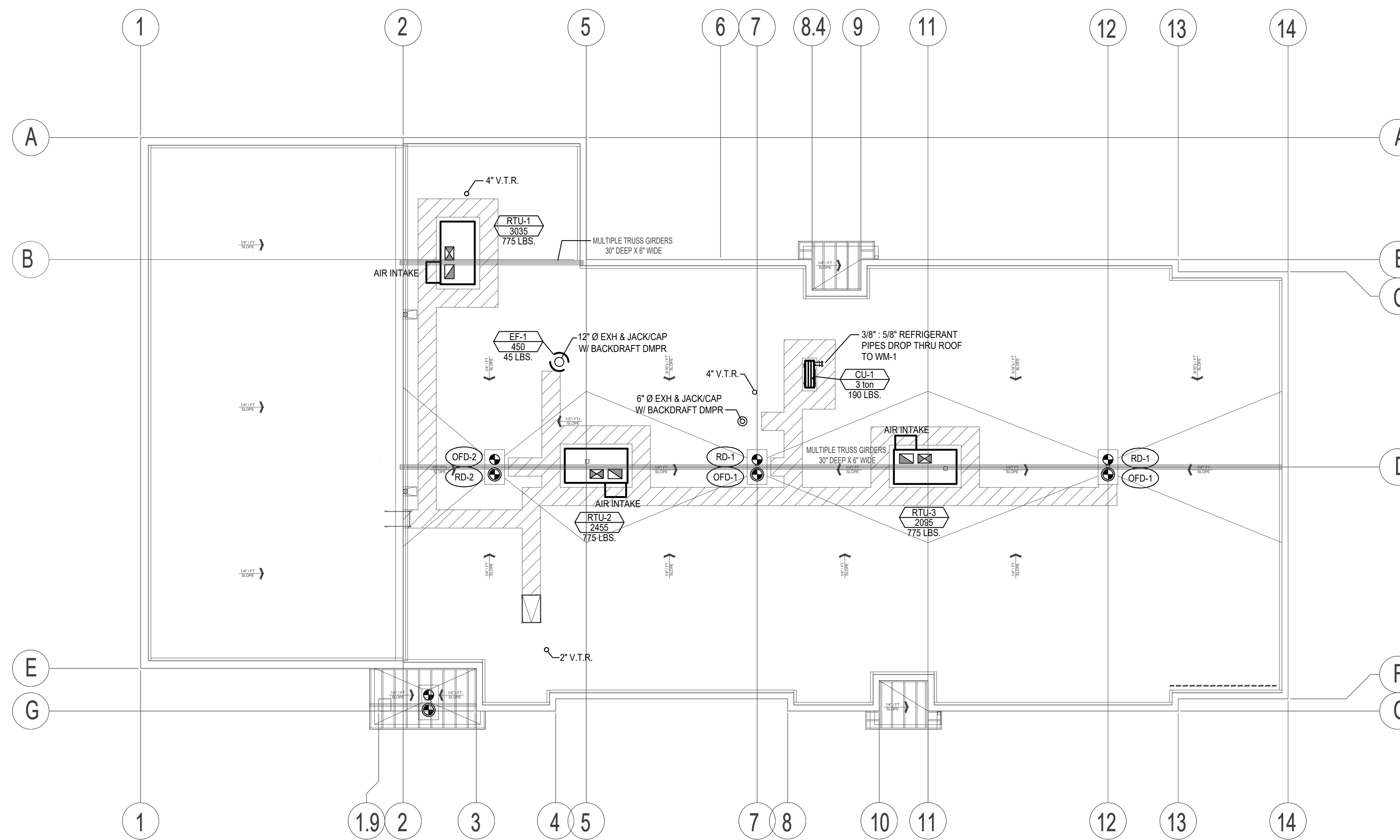


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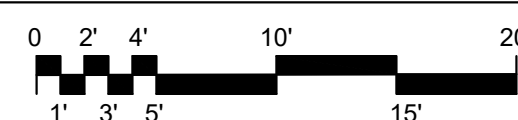
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# ROOF PLAN - MECHANICAL

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



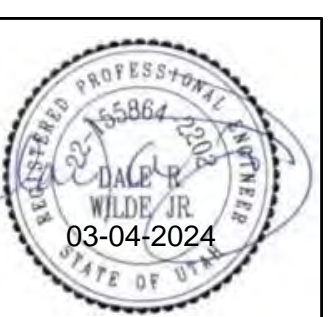
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Date	03/01/24
Revisions	09M102



**DIFFUSER AND GRILLE SCHEDULE**

- NOTES:
- DIFFUSER SIZING IS BASED ON AIR BEING INTRODUCED AT 25 DEGREES F. TEMPERATURE DEFERENTIAL, AND AIR BEING DIFFUSED AT THE FIVE-FOOT LEVEL TO A VELOCITY NOT GREATER THE 50 FPM. DIFFUSER SELECTED SO AS NOT TO EXCEED THE NC-30 CURVE.
  - REGISTER AND GRILLES SIZING IS SELECTED SO AS NOT TO EXCEED THE NC-30 CURVE.
  - MANUFACTURER SHALL GUARANTEE TO MEET THE ABOVE PERFORMANCE FACTORS AND REPLACE ALL DIFFUSERS WHERE REQUIRED

SYMBOL	DESCRIPTION
--------	-------------

CEILING SUPPLY DIFFUSER	
CD	SQUARE PLAQUE TYPE SUPPLY DIFFUSER 4 FULLY ADJUSTABLE CONES MINIMUM FRAME FOR MOUNTING IN 24" x 24" T-BAR CEILING WHITE POWDER COAT FINISH ALL ALUMINUM CONSTRUCTION SIZE AND DIFFUSION PATTERN ON THE DRAWINGS
	CARNES SHPA
	KRUEGER PLQ
	METAL-AIRE 5750
	PRICE ASPD
	TITUS DAT
	TUTTLE AND BAILEY T1100

CEILING SUPPLY DIFFUSER	
CD-1	SQUARE PLAQUE TYPE SUPPLY DIFFUSER 4 FULLY ADJUSTABLE CONES MINIMUM FRAME FOR MOUNTING IN GYPSUM BOARD CEILING WHITE POWDER COAT FINISH ALL ALUMINUM CONSTRUCTION SIZE AND DIFFUSION PATTERN ON THE DRAWINGS
	CARNES SHPA
	KRUEGER PLQ
	METAL-AIRE 5750
	PRICE ASPD
	TITUS DAT
	TUTTLE AND BAILEY T1100

CEILING EXHAUST GRILLE	
EG	SQUARE PLAQUE TYPE SUPPLY DIFFUSER FRAME FOR MOUNTING IN 24" x 24" T-BAR CEILING WHITE POWDER COAT FINISH ALL ALUMINUM CONSTRUCTION GRILLE SIZE ON THE DRAWINGS
	CARNES SHPA
	KRUEGER PLQ
	METAL-AIRE 5750
	PRICE ASPD
	TITUS DAT
	TUTTLE AND BAILEY T1100

CEILING EXHAUST GRILLE	
EG-1	SQUARE PLAQUE TYPE SUPPLY DIFFUSER FRAME FOR MOUNTING IN GYPSUM BOARD CEILING WHITE POWDER COAT FINISH ALL ALUMINUM CONSTRUCTION GRILLE SIZE ON THE DRAWINGS
	CARNES SHPA
	KRUEGER PLQ
	METAL-AIRE 5750
	PRICE ASPD
	TITUS DAT
	TUTTLE AND BAILEY T1100

SIDEWALL EXHAUST AIR GRILLE	
EG-2	HORIZONTAL BARS ALL BARS ON 1/2" CENTERS BLADES AT 40 DEG. FIXED DEFLECTION 1-1/4" FLANGED FRAME OFF WHITE ENAMEL FINISH ALL ALUMINUM CONSTRUCTION SIZE AND PERFORMANCE SHOWN ON THE DRAWINGS
	CARNES SHPA
	KRUEGER S585
	METAL-AIRE RH
	PRICE 635
	TITUS 355FL
	TUTTLE AND BAILEY A70D5

**DIFFUSER AND GRILLE SCHEDULE**

- NOTES:
- DIFFUSER SIZING IS BASED ON AIR BEING INTRODUCED AT 25 DEGREES F. TEMPERATURE DEFERENTIAL, AND AIR BEING DIFFUSED AT THE FIVE-FOOT LEVEL TO A VELOCITY NOT GREATER THE 50 FPM. DIFFUSER SELECTED SO AS NOT TO EXCEED THE NC-30 CURVE.
  - REGISTER AND GRILLES SIZING IS SELECTED SO AS NOT TO EXCEED THE NC-30 CURVE.
  - MANUFACTURER SHALL GUARANTEE TO MEET THE ABOVE PERFORMANCE FACTORS AND REPLACE ALL DIFFUSERS WHERE REQUIRED

SYMBOL	DESCRIPTION
--------	-------------

CEILING RETURN GRILLE	
RG	SQUARE PLAQUE TYPE RETURN GRILLE 24" x 24" OR 24" x 12" FACE FRAME FOR MOUNTING IN 24" x 24" T-BAR CEILING WHITE POWDER COAT FINISH ALL ALUMINUM CONSTRUCTION SIZE AND DIFFUSION PATTERN ON THE DRAWINGS
	CARNES SHPA
	KRUEGER PLQ
	METAL-AIRE 5750
	PRICE ASPD
	TITUS DAT
	TUTTLE AND BAILEY T1100

SIDEWALL SUPPLY AIR GRILLE	
SWS	DOUBLE DEFLECTION TYPE VERTICAL BARS HORIZONTAL REAR BARS ALL BARS ON 3/4" CENTERS 1-1/4" FLANGED FRAME OFF WHITE ENAMEL FINISH ALL ALUMINUM CONSTRUCTION SIZE AND PERFORMANCE SHOWN ON THE DRAWINGS
	CARNES SHPA
	KRUEGER S880
	METAL-AIRE V4004
	PRICE 620
	TITUS 300FS
	TUTTLE AND BAILEY A64

SIDEWALL RETURN AIR GRILLE	
SWR	HORIZONTAL BARS ALL BARS ON 1/2" CENTERS BLADES AT 40 DEG. FIXED DEFLECTION 1-1/4" FLANGED FRAME OFF WHITE ENAMEL FINISH ALL ALUMINUM CONSTRUCTION SIZE AND PERFORMANCE SHOWN ON THE DRAWINGS
	CARNES S585
	KRUEGER RH
	METAL-AIRE RH
	PRICE 635
	TITUS 355FL
	TUTTLE AND BAILEY A70D5

**GAS FIRED ROOFTOP A/C UNIT SCHEDULE**

THE HEATING AND COOLING SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH ASHRAE183			
SYMBOL	RTU-1	RTU-2	RTU-3
MANUFACTURER	YORK	YORK	YORK
MODEL NUMBER	ZE072H10D4C5MAA2A1	ZE060H10D4C5MAA2A4	ZE060H10D4C5MAA2A4
TONNAGE	6	5	5
COOLING PERFORMANCE			
TOTAL GROSS CAPACITY	608 MBH	53.1 MBH	52.7 MBH
SENSIBLE GROSS CAPACITY	60.0 MBH	49.0 MBH	50.1 MBH
TOTAL NET CAPACITY	53.5 MBH	48.7 MBH	48.8 MBH
SENSIBLE NET CAPACITY	52.7 MBH	44.6 MBH	46.2 MBH
SEASONAL EFFICIENCY (at ARI)		14.00 SEER	14.00 SEER
SEASONAL EFFICIENCY (at ARI)		13.40 SEER2	13.40 SEER2
EFFICIENCY (at ARI)	11.00 EER	11.80 EER	11.80 EER
EFFICIENCY (at ARI)		11.40 EER2	11.40 EER2
INTEGRATED EFF. (at ARI)	15.00 IEER		
AMBIENT DB TEMP.	95 Deg. F.	95 Deg. F.	95 Deg. F.
ENTERING DB TEMP.	79.5 deg. F.	78.4 deg. F.	79.0 deg. F.
ENTERING WB TEMP.	59.2 Deg. F.	59.4 Deg. F.	58.5 Deg. F.
EVAP. COIL LEAVING DB TEMP.	57.7 Deg. F.	54.7 Deg. F.	53.2 Deg. F.
EVAP. COIL LEAVING WB TEMP.	51.4 Deg. F.	50.3 Deg. F.	48.6 Deg. F.
UNIT LEAVING DB TEMP.	60.3 Deg. F.	56.8 Deg. F.	55.3 Deg. F.
UNIT LEAVING WB TEMP.	52.4 Deg. F.	50.1 Deg. F.	49.4 Deg. F.
LEAVING AIR TEMP DEW POINT	47.00 Deg. F.	47.20 Deg. F.	45.10 Deg. F.
POWER INPUT (w/ø BLOWER)	4.87 Kw	3.94 Kw	3.92 Kw
SOUND POWER	83 dB(a)	82 dB(a)	82 dB(a)
REFRIGERANT			
REFRIGERANT TYPE	R-410A	R-410A	R-410A
SYSTEM 1	6 lbs. 6 oz.	5 lbs. 12 oz.	5 lbs. 12 oz.
HEATING PERFORMANCE			
ENTERING DB TEMP.	60.6 Deg. F.	64.0 Deg. F.	62.1 Deg. F.
HEATING OUTPUT CAPACITY (MAX.)	65.6 MBH	65.6 MBH	65.6 MBH
SUPPLY AIR	3035 CFM	2255 CFM	2045 CFM
HEATING INPUT CAPACITY (MAX.)	82.0 MBH	82.0 MBH	82.0 MBH
LEAVING DB TEMP.	84.5 Deg. F.	95.8 Deg. F.	95.8 Deg. F.
AIR TEMP. RISE	23.9 Deg. F.	31.8 Deg. F.	33.7 Deg. F.
SSE	80.0%	80.0%	80.0%
STAGES	1	1	1
SUPPLY AIR BLOWER PERFORMANCE			
SUPPLY AIR	3035 CFM	2255 CFM	2045 CFM
EXT. STATIC PRESSURE	0.65 IWG	0.65 IWG	0.65 IWG
ADDL. UNIQ LOSSES ((Options/Accessories)	0.3 IWG	0.17 IWG	0.17 IWG
BLOWER SPEED	1484 RPM	1325 RPM	1273 RPM
MAX BHP OF MOTOR (including service factor)	3.45 HP	2.30 HP	2.30 HP
DUCT LOCATION	BOTTOM	BOTTOM	BOTTOM
MOTOR RATING	3.00 HP	2.00 HP	2.00 HP
ACTUAL REQUIRED BHP	2.50 HP	1.37 HP	1.22 HP
POWER INPUT	2.16 Kw	1.28 Kw	1.14 HP
ELEVATION	4500 ft.	4500 ft.	4500 ft.
DRIVE TYPE	BELT	BELT	BELT
ELECTRICAL DATA			
POWER SUPPLY	460-3-60	460-3-60	460-3-60
UNIT MIN. CIRCUIT AMPACITY	18.3 amps	14.4 amps	14.4 amps
UNIT MAX. OVER-CURRENT PROTECTION	25 amps	20 amps	20 amps
SMOKE DETECTOR	YES	YES	YES
DIMENSIONS AND WEIGHT			
HEIGHT	33"	33"	33"
LENGTH	83"	83"	83"
WIDTH	45"	45"	45"
WEIGHT WITH FACTORY INSTALLED OPTIONS	775 lbs.	752 LBS.	752 LBS
CLEARANCES			
RIGHT	24"	24"	24"
FRONT	32"	32"	32"
BACK	12"	12"	12"
LEFT	24"	24"	24"
TOP	72"	72"	72"
BOTTOM	0"	0"	0"
NOTES			

- 95 Deg. F. AMBIENT AIR TEMPERATURE
- ENTERING AIR TEMP. 80 Deg. F. DB - 67 Deg. F. WB
- SET THERMOSTATS w/5 Deg. DEADBAND
- THERMOSTAT LOCKING COVERS
- CO2 SENSOR
- FAN AND FILTER SWITCH
- HONEYWELL T7300T SEVEN DAY PROGRAMMABLE THERMOSTAT
- LOW AND HIGH PRESSURE SWITCHES
- PHASE MONITOR
- AUTOMATIC SHUT DOWN
- 100% OUTSIDE AIR ENTHALPY CONTROLLED ECONOMIZER
- 100% MODULATING POWER RELIEF FAN
- LOW AMBIENT CONTROL TO 0 Deg. F.
- NON RECYCLE TIMER
- ALL ROOFTOP UNIT ARE TO BE PROVIDE WITH A DISCONNECT
- ALL ROOFTOP HEATING AND COOLING UNITS TO BE SUPPLIED WITH AN UN-CIRCUITED CONVENIENCE OUTLET.
- SMOKE DETECTOR IN RETURN AIR DUCT ON ALL ROOFTOP UNITS OVER 2000 CFM
- INTERMITTENT IGNITION
- LOW LEAK DAMPERS
- 14" TALL ROOF CURB
- 2" PLEATED FILTERS
- OUTSIDE AIR INTAKE RAIN HOOD

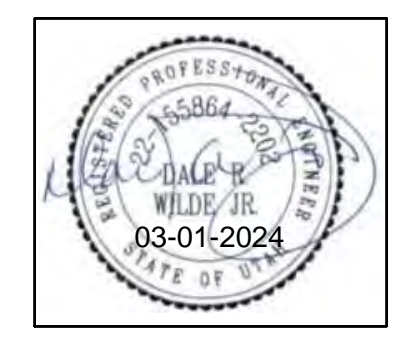
**ROOF MOUNTED EXHAUST FAN**

SYMBOL	EF-1
MANUFACTURER	COOK
MODEL NUMBER	ACE-B 1002C2B
FAN DATA	
MIN. AIR FLOW (CFM)	450
STATIC PRESSURE	0.25
BHP	0.04
FAN RPM	1175
TIP SPEED	3079
SONES	6
ELECTRICAL	
V/P/H	120/1/60
HP	1/6
DIMENSIONS	
HEIGHT	20-3/16"
DIAMETER	23-9/16"
WEIGHT	45 LBS.
ROOF OPENING	13-1/2" x 13-1/2"
NOTES	
1. BACKDRAPT DAMPER AT ROOF LINE	
2. 14" TALL ROOF CURB - RCA-16	
3. TO OPERATE BY TIME CLOCK	

**CEILING MOUNTED EXHAUST FAN**

SYMBOL	EF-2
MANUFACTURER	COOK
MODEL NUMBER	GC-140
PERFORMANCE:	
TYPE	CEILING MOUNTED
MIN. AIR FLOW (CFM)	90
STATIC PRESSURE	0.125
SONES	2.4
FAN RPM	1500
ELECTRICAL	
V/P/H	120/60/1
WATTS	70 WATTS
DIMENSIONS	
HEIGHT	8-3/8"
LENGTH	14"
WIDTH	12-3/45"
WEIGHT	15 LBS.
NOTES:	
1. BACKDRAPT DAMPER LOCATED WHERE DUCT EXITS THE BUILDING	
2. CONTROLLED BY A TIME CLOCK	

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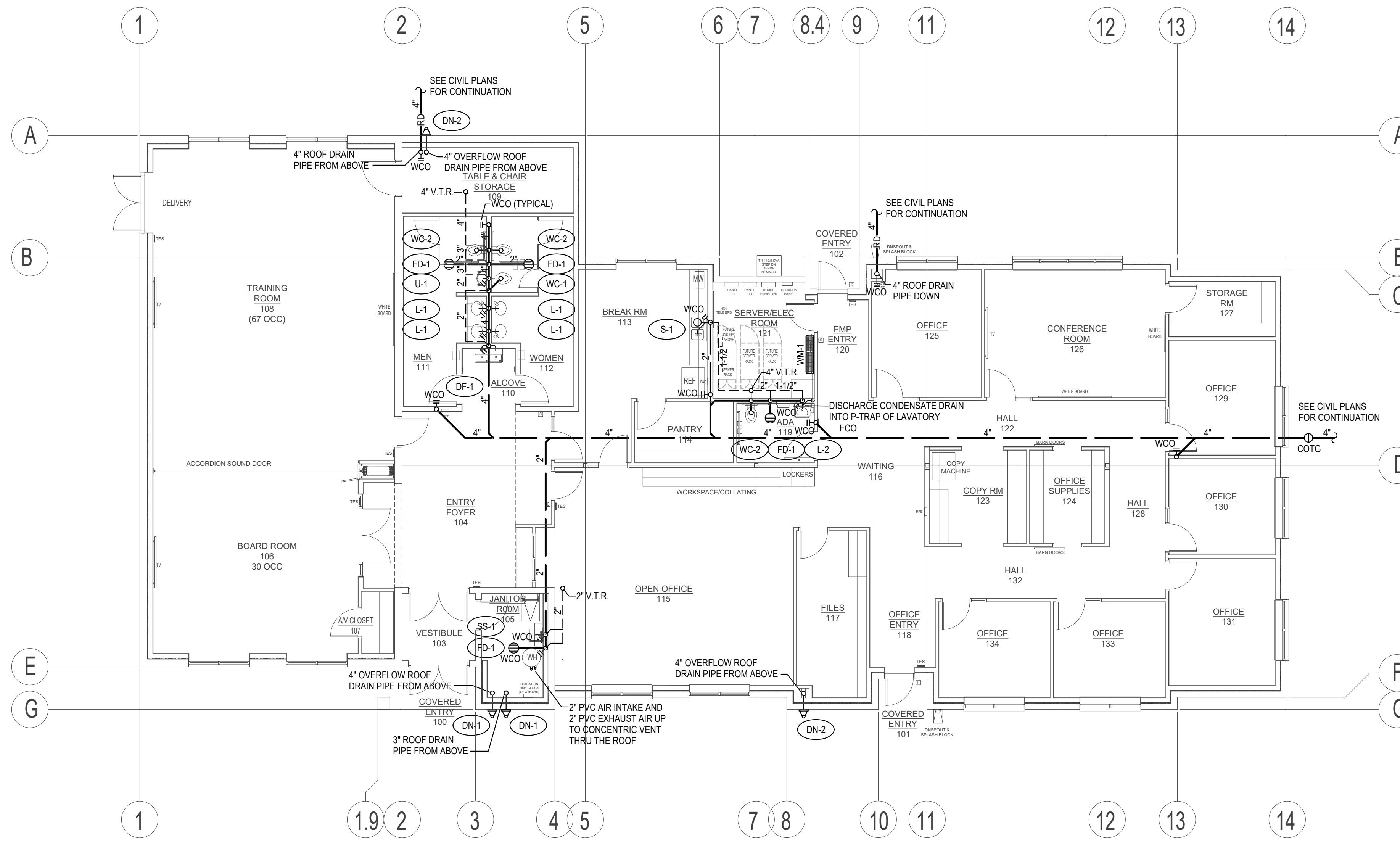


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 Revisions  
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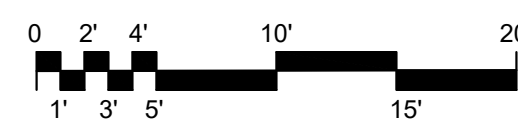
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# FLOOR PLAN - WASTE AND VENT PIPING

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



NORTH



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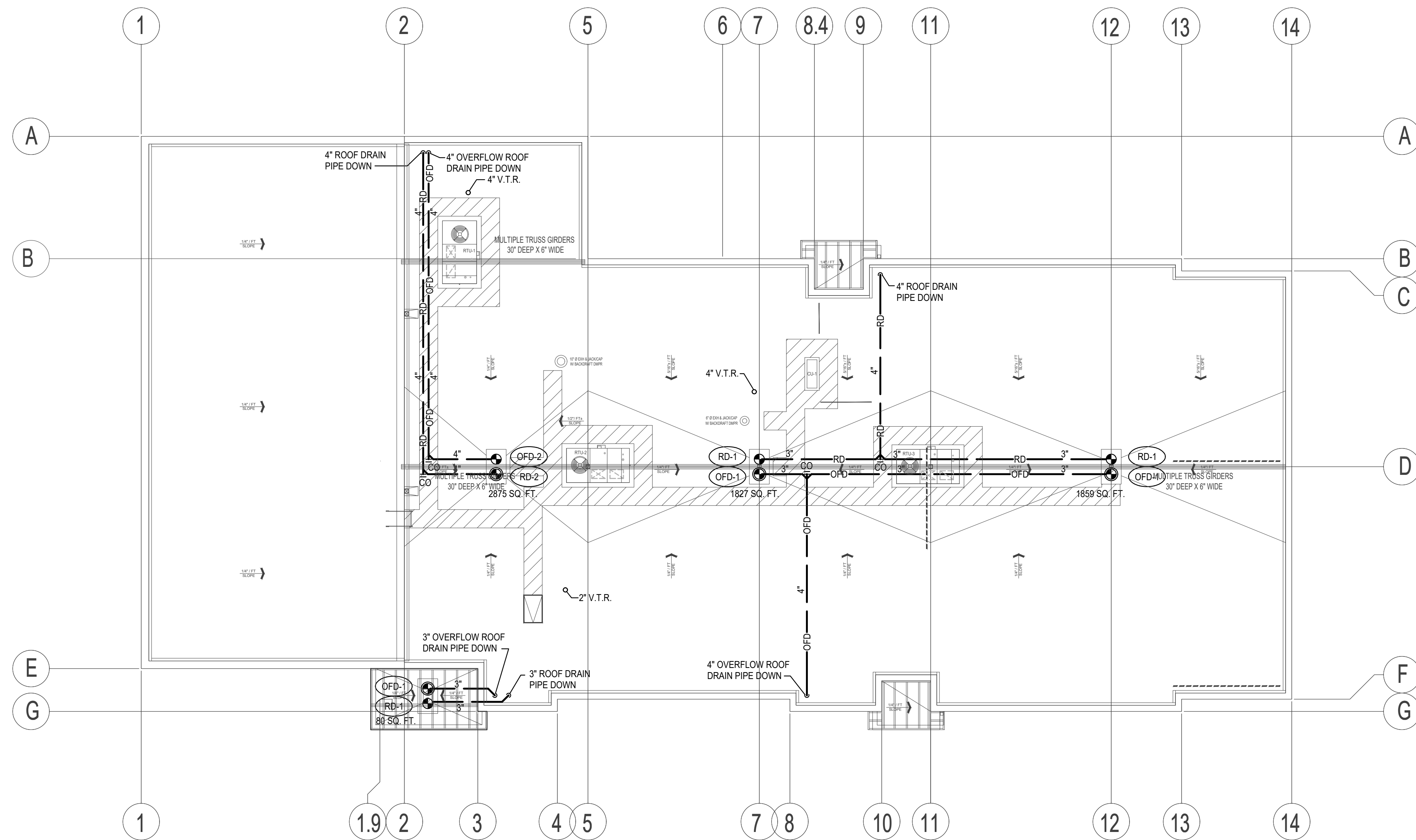
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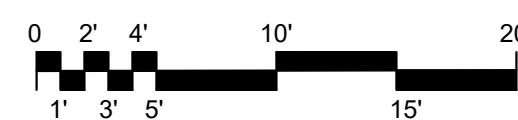
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Revisions	09P101



# ROOF PLAN - WASTE AND VENT PIPING

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



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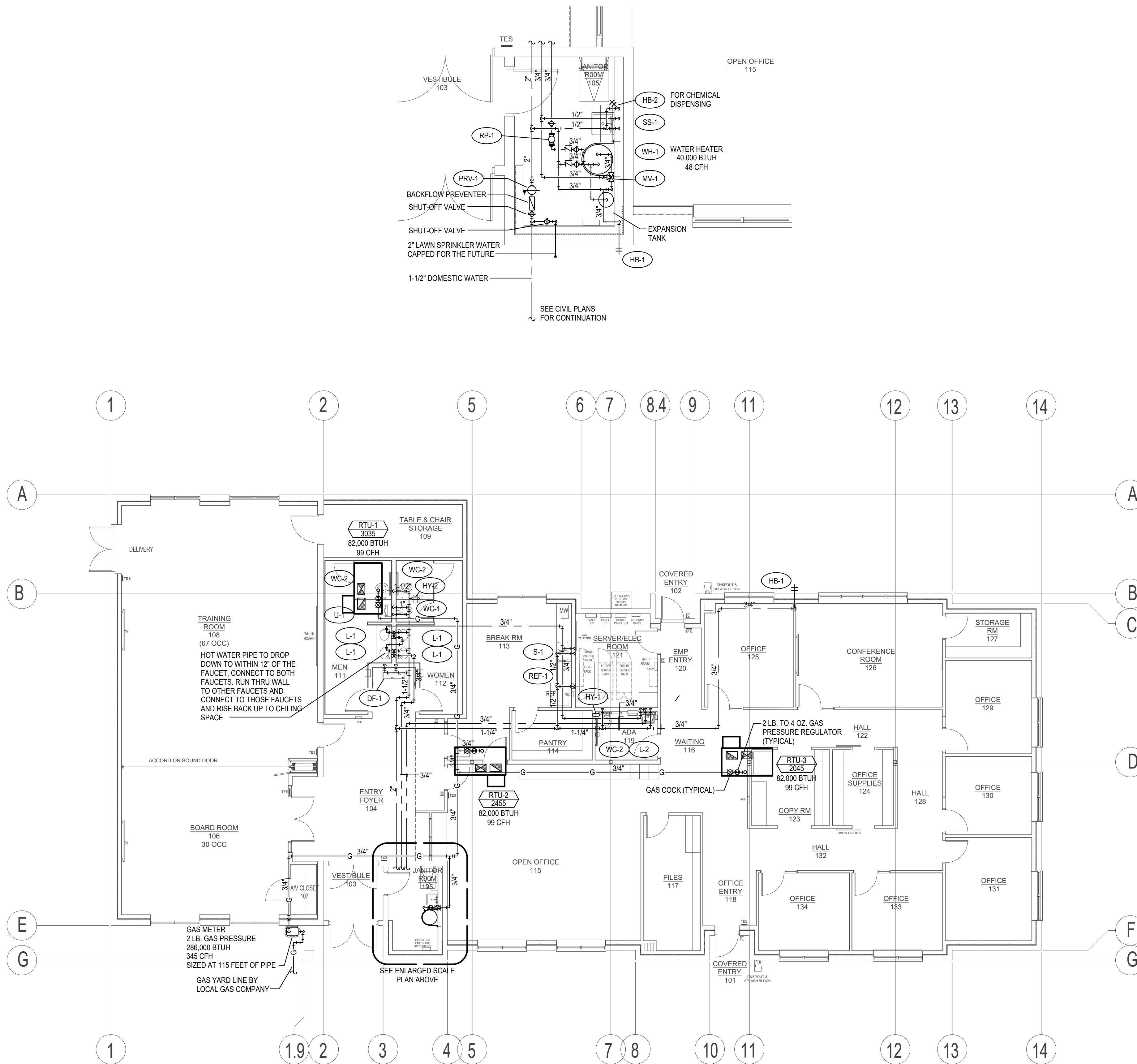
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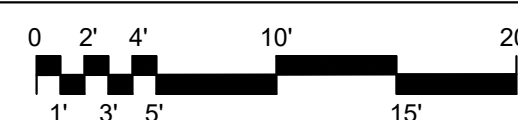
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# FLOOR PLAN - WATER AND GAS PIPING

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

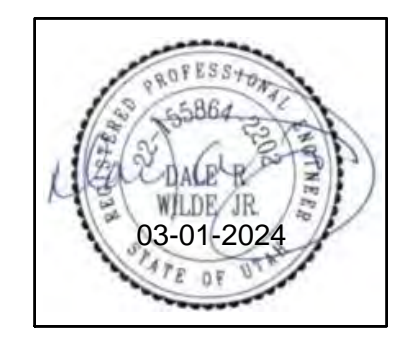


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Project  
**24-001**  
**NORTH PLANT ADMINISTRATION OFFICE BUILDING**  
 SOUTH DAVIS SEWER DISTRICT  
 1800 WEST 1200 NORTH  
 WEST BOUNTIFUL, UTAH

Date  
 03/01/24

Revisions	

**09P103**

*PLUMBING LEGEND*		
SYMBOL	DESCRIPTION	ABBREVIATION
	SOIL OR WASTE (ABOVE FLOOR)	S OR W
	SOIL OR WASTE (BELOW GRADE OR FLOOR)	S OR W
	WALL CLEAN OUT	WCO
	FLOOR CLEAN OUT	FCO
	CLEAN OUT	CO
	CLEAN OUT TO GRADE	COTG
	VENT	V
	VENT THRU ROOF	VTR
	ROOF DRAIN (ABOVE FLOOR)	RD
	ROOF DRAIN (BELOW GRADE OR FLOOR)	RD
	OVERFLOW ROOF DRAIN (ABOVE FLOOR)	OFD
	OVERFLOW ROOF DRAIN (BELOW GRADE)	OFD
	COLD WATER	CW
	HOT WATER	HW
	RECIRCULATING HOT WATER	RHW
	NATURAL GAS	G
	BACKFLOW PREVENTER	BFP
	BALL VALVE	
	CHECK VALVE	
	DRAIN	D
	GAS COCK	
	GAS PRESSURE REDUCING VALVE	
	PRESSURE GAUGE	
	PRESSURE REDUCING VALVE	PRV
	PUMP	P
	RELIEF VALVE	
	STRAINER	
	THERMOMETER	
	THREE WAY MIXING VALVE	
	UNION	
	VALVE IN RISER	

DRAINAGE FIXTURE UNITS					
2021 INTERNATIONAL PLUMBING CODE					
QTY	FIXTURE TYPE	NOTES	FIXTURE UNITS PER EACH FIXTURE	FIXTURE UNITS PER TOTAL FIXTURE COUNT	MINIMUM SIZE OF TRAP (INCHES)
2	DRINKING FOUNTAIN		0.5	1	1-1/4"
4	FLOOR DRAIN		2.0	8	2"
1	KITCHEN SINK, DOMESTIC w/ DISPOSAL		2.0	2	1-1/2"
5	LAVATORY		1.0	5	1-1/4"
1	SERVICE SINK		2.0	2	1-1/2"
1	URINAL, 1 GALLON OER FLUSH OR LESS		2.0	2	NOTE a
4	WATER CLOSET, PUBLIC (1.6 GPF)	b	4.0	16	NOTE a
TOTAL FIXTURE UNITS				36	
PIPE SIZE					4"
NOTES					
a	TRAP SIZE SHALL BE CONSISTENT WITH THE FIXTURE OUTLET SIZE.				
b	FOR THE PURPOSE OF COMPUTING LOADS ON BUILDING DRAINS AND SEWERS, WATER CLOSETS OR URINALS SHALL NOT BE RATED AT A LOWER DRAINAGE FIXTURE UNIT UNLESS THE LOWER VALUES ARE CONFIRMED BY TESTING.				

BUILDING DRAINS AND SEWERS				
DIAMETER OF PIPE (INCHES)	MAXIMUM NUMBER OF DRAINAGE FIXTURE UNITS CONNECTED TO ANY PORTION OF THE BUILDING DRAIN OR THE BUILDING SEWER, INCLUDING BRANCHES OF THE BUILDING DRAIN. A			
	SLOPE PER FOOT			
	1/16 INCH	1/8 INCH	1/4 INCH	1/2 INCH
1-1/4"			1	1
1-1/2"			3	3
2"			21	26
2-1/2"			24	31
3"		36	42	50
4"		108	216	250
5"		390	480	575
6"		700	840	1,000

THE MINIMUM SIZE OF ANY BUILDING DRAIN SERVING A WATER CLOSET SHALL BE 3 INCHES.

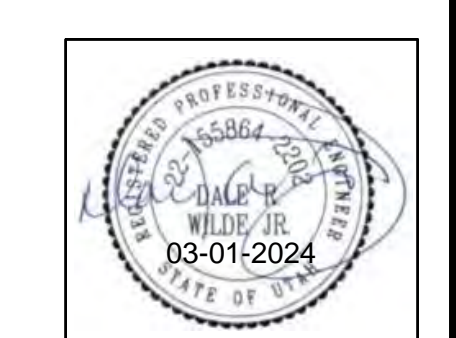
WATER FIXTURE UNITS									
2021 INTERNATIONAL PLUMBING CODE									
QTY.	FIXTURE	OCCUPANCY	TYPE OF SUPPLY CONTROL	LOAD VALUES, IN					
				WATER SUPPLY FIXTURE UNITS (WSFU)					
				COLD	COLD	HOT	HOT	TOTAL	TOTAL
				FIXTURE UNITS PER FIXTURE	FIXTURE UNITS PER BUILDING	FIXTURE UNITS PER FIXTURE	FIXTURE UNITS PER BUILDING	FIXTURE UNITS PER BUILDING	FIXTURE UNITS PER BUILDING
2	DRINKING FOUNTAIN	OFFICE	3/8" VALVE	0.25	0.5	N/A	N/A	0.25	0.5
1	KITCHEN SINK	PRIVATE	FAUCET	1.0	1	1.0	1	1.4	1.4
5	LAVATORY	PRIVATE	FAUCET	0.5	2.5	0.5	2.5	0.7	3.5
1	SERVICE SINK	OFFICE	FAUCET	2.3	2.25	2.3	2.25	3.0	3
1	URINAL	PUBLIC	3/4" FLUSH VALVE	5.0	5	N/A	N/A	5.0	5
4	WATER CLOSET	PUBLIC	FLUSH VALVE	10.0	40	N/A	N/A	10.0	40
TOTAL FIXTURE UNITS					51.25		5.75		53.4
GALLONS PER MINUTE							51.6		
PIPE SIZE							2		
NOTES									
FOR FIXTURES NOT LISTED, LOADS SHOULD BE ASSUMED BY COMPARING THE FIXTURE TO ONE LISTED USING WATER IN SIMILAR QUANTITIES AND AT SIMILAR RATES/ THE ASSIGNED LOADS FOR FIXTURES WITH BOTH HOT AND COLD WATER SUPPLIES ARE GIVEN FOR SEPARATE HOT AND COLD WATER LOADS AND FOR TOTAL LOAD, THE SEPARATE HOT AND COLD WATER LOADS BEING THREE-FOURTHS OF THE TOTAL LOAD FOR THE FIXTURE IN EACH CASE.									

NATURAL GAS REQUIREMENTS				
QTY.		FIXTURE	BTUH	CFH
1	RTU-1	ROOFTOP UNIT	82,000	99.0
1	RTU-2	ROOFTOP UNIT	82,000	99.0
1	RTU-3	ROOFTOP UNIT	82,000	99.0
1	WH-1	WATER HEATER	40,000	48.0
TOTALS			286,000	345
BUILDING GAS PRESSURE				2 LB.
DEVELOPED PIPE LENGTH				115'-0"
SIZE OF BUILDING GAS MAIN				3/4"

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Date	Revisions
03/01/24	09P201

PLUMBING GENERAL NOTES	
<p><b>CODES RULES AND REGULATIONS:</b></p> <p>ALL WORK SHALL CONFORM TO ALL APPLICABLE LOCAL AND STATE CODES.</p> <p>WHENEVER INDICATED MATERIAL WORKMANSHIP, ARRANGEMENT OR CONSTRUCTION IS OF HIGHER QUALITY OR CAPACITY THAN THAT REQUIRED BY THE ABOVE CODES, THE DRAWING AND OR SPECIFICATION SHALL GOVERN.</p> <p>SHOULD THERE BE ANY DIRECT CONFLICT BETWEEN THE STATE OR LOCAL CODES, LAWS OR REGULATION AND THE DRAWING AND OR SPECIFICATIONS THE CODES, LAWS OR REGULATIONS SHALL GOVERN.</p> <p><b>STANDARDS:</b></p> <p>INTERNATIONAL BUILDING CODE 2021 EDITION INTERNATIONAL PLUMBING CODE 2021 EDITION INTERNATIONAL MECHANICAL CODE 2021 EDITION INTERNATIONAL FUEL GAS CODE 2021 EDITION THE STATE OF UTAH * BOILER AND PRESSURE VESSEL REGULATIONS*</p> <p><b>EXAMINATION OF SITE:</b></p> <p>THE CONTRACTOR SHALL CAREFULLY EXAMINE THE DRAWINGS AND THE SITE AND FAMILIARIZE THEMSELVES WITH ALL EXISTING CONDITIONS BEFORE SUBMITTING ANY PROPOSAL. NO ADDITION COST WILL BE ALLOWED FOR FAILURE TO VISIT THE SITE.</p> <p><b>WORKING DRAWINGS AND MEASUREMENTS:</b></p> <p>THESE DRAWINGS ARE GENERALLY DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET AND BEND THAT MAY BE NEEDED TO INSTALL THE WORK. THE CONTRACTOR SHALL COORDINATE THE DRAWINGS OF ALL OTHER TRADES INCLUDING BUT NOT LIMITED TO THE CIVIL, ARCHITECTURAL, ELECTRICAL, AND STRUCTURAL. THESE DRAWINGS SHALL NOT BE SCALED FOR ROUGH IN OR AS SHOP DRAWINGS.</p> <p><b>EQUIPMENT SUBMITTALS:</b></p> <p>PROVIDE ALL AT ONE TIME IN A THREE RING BINDER SIX COPIES OF EQUIPMENT PROPOSED TO BE USED ON THIS PROJECT.</p> <p>REGARDLESS OF ANY INFORMATION OUTLINED IN THE SUBMITTALS OR SHOP DRAWINGS, THE REQUIREMENTS OF THE DRAWINGS MUST FOLLOWED AND AR NOT WAIVED OR SUPERSEDED IN ANY WAY BY THE SUBMITTALS OR SHOP DRAWING REVIEW.</p> <p><b>CAULKING AND SEALING:</b></p> <p>ALL SPACES BETWEEN PIPES AND SLEEVES THROUGH FIRE WALLS, FIRE PARTITIONS, FLOORS, AND CEILINGS SHALL CAULKED WITH ONE INCH FILL OF 3M "FIRE BARRIER". CAULKING MUST BE ON BOTH SIDES OF FIRE RATED WALLS.</p> <p><b>SUPERVISION AND WORKMANSHIP:</b></p> <p>PROVIDE THE SERVICES OF AN EXPERIENCED FORMAN WHO SHALL BE IN CHARGE OF ALL INSTALLATION.</p> <p>ALL WORKMANSHIP SHALL BE OF FIRST QUALITY. NONE BUT COMPETENT MECHANICS SHALL BE EMPLOYED IN THE WORK. SHODDY WORKMANSHIP WILL BE CAUSE FOR REJECTION AND REPLACEMENT OF WORK WITHOUT ADDITIONAL COST.</p> <p><b>COOPERATION WITH OTHER TRADES:</b></p> <p>REFER TO ALL THE DRAWINGS COVERING WORK OF ALL TRADES, WHICH IS CARRIED ON IN CONJUNCTION WITH THE WORK SUCH THAT ALL WORK CAN PROCEED WITHOUT INTERFERENCE RESULTING FROM LACK OF COORDINATION.</p> <p><b>MANUFACTURERS INSTRUCTIONS:</b></p> <p>THE CONTRACTOR SHALL FOLLOW THE MANUFACTURERS INSTALLATION INSTRUCTION EXPLICITLY IN THE INSTALLATION OF ALL ITEMS OF EQUIPMENT.</p> <p><b>COMPLETION REQUIREMENTS:</b></p> <p>ALL SYSTEMS SHALL BE TESTED BY THE CONTRACTOR TO DEMONSTRATE THE ALL EQUIPMENT FURNISHED AND INSTALLED OR CONNECTED FUNCTION IN THE MANNER REQUIRED.</p> <p>ADJUSTMENTS, OPERATION, ETC. ADJUST ALL REGULATORS, FAUCETS, ETC. OPEN AND CLOSE ALL VALVES SEVERAL TIMES TO INSURE SEAL.</p> <p><b>CLEANING:</b></p> <p>THIS CONTRACTOR SHALL CLEAN ALL EXPOSED PIPING, INSULATED MEMBERS, FIXTURES AND EQUIPMENT INSTALLED AND LEAVE READY FOR PAINTING. REFINISH AND DAMAGED FINISH AND LEAVE IN PROPER WORKING ORDER.</p> <p><b>GUARANTEE:</b></p> <p>BY THE ACCEPTANCE OF AN CONTRACT AWARD FOR THE WORK HEREIN DESCRIBED OR SHOWN ON THE DRAWINGS, THE CONTRACTOR ASSUMES THE FULL RESPONSIBILITY IMPOSED BY THE GUARANTEE AS SET FORTH HEREIN, AND SHALL PROTECT HIMSELF THROUGH PROPER GUARANTEES FROM EQUIPMENT VENDORS AND FROM SUBCONTRACTORS AS THEIR INTERESTS MAY APPEAR.</p> <p>1. THAT THE ENTIRE PLUMBING SYSTEMS SHALL BE QUIET IN OPERATION.</p> <p>2. THAT THE CIRCULATION OF WATER SHALL BE COMPLETE AND EVEN INCLUDING THE DOMESTIC HOT WATER SYSTEM.</p> <p>3. THAT HE WILL MAKE PROMPTLY UPON NOTICE, FREE OF CHARGE, ANY REPAIRS NECESSARY DUE TO DEFECTIVE MATERIALS OR MATERIALS OR WORKMANSHIP THAT MAY OCCUR DURING A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION.</p> <p>THE EXISTING UTILITY CONNECTIONS HAVE BEEN DETERMINED BASED ON THE INFORMATION AVAILABLE. NO DESTRUCTIVE DEMOLITION HAS BEEN PERFORMED TO CONFIRM THE EXISTENCE AND OR LOCATION OF THE EXISTING CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXISTING CONDITIONS PRIOR TO START OF WORK. ANY DEVIATION FROM THE CONDITIONS SHOWN ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR EVALUATION AND DIRECTION. THE COST OF REMEDIAL WORK DUE TO FAILURE OF THE CONTRACTOR TO VERIFY THE EXISTING CONDITIONS PRIOR TO THE START OF WORK WILL BE BOURNE BY THE CONTRACTOR.</p>	

PLUMBING PIPING SCHEDULE	
<p><b>NOTES:</b></p> <p>GRADE ALL DOMESTIC WATER PIPING TO DRAIN. PROVIDE DRAIN AT ALL LOW POINTS WITH HOSE CONNECTION AND CAP. GRADE ALL WASTE AND VENT PIPING TO CONFORM TO THE INTERNATIONAL PLUMBING CODE.</p> <p>ALL PIPING SHALL BE SUPPORTED WITH CLEVIS HANGERS ON THE FOLLOWING SPACING:</p> <p>STEEL PIPE 1" AND SMALLER 5 FEET STEEL PIPE 1-1/4" AND LARGER 10 FEET COPPER TUBING 1-1/4" AND SMALLER 5 FEET COPPER TUBING 1-1/2" AND LARGER 10 FEET PLASTIC PIPE 3 FEET</p> <p>CAST IRON SOIL PIPE - SUPPORT AT EACH JOINT AND AT INTERVALS NOT TO EXCEED 5 FEET.</p> <p>HANGER ROD SIZING AS FOLLOWS:</p> <p>PIPE SIZE ROD SIZE 1/2" TO 2" 3/8" 2-1/2" TO 3" 1/2" 4" AND LARGER 5/8"</p> <p>PROVIDE INSULATION PROTECTION SHIELDS AT ALL HANGERS. PROVIDE ISOLATION VALVES AND UNIONS AT ALL EQUIPMENT. PROVIDE DIELECTRIC UNIONS BETWEEN DISSIMILAR PIPE MATERIALS.</p> <p>BACK FILL AND COMPACT ALL TRENCHING TO PREVENT SETTLEMENT AND TO PROPERLY SUPPORT BELOW GRADE PIPING.</p> <p>PLASTIC PIPING IN AIR PLENUMS IS PROHIBITED. ALL MATERIAL LOCATED IN AIR PLENUMS MUST HAVE SURFACE BURNING CHARACTERISTICS NOT EXCEEDING FLAME SPREAD 25 AND SMOKE GENERATED 50.</p>	
SYMBOL	DESCRIPTION
HW CW HWR	DOMESTIC HOT WATER PIPING DOMESTIC COLD WATER PIPING DOMESTIC HOT WATER RECIRCULATING PIPING
	COPPER TUBE BELOW GRADE: TYPE K HARD DRAWN COPPER CONFORMING TO ANSI H23.1
	COPPER TUBE ABOVE GRADE: TYPE L HARD DRAWN COPPER CONFORMING TO ANSI H23.1
	COPPER TUBE FITTINGS: 2-1/2" AND SMALLER: WROUGHT COPPER, SOLDER JOINT PRESSURE FITTINGS CONFORMING TO ASME B16.22
	SOLDER WITH NON LEAD SOLDER IN ACCORDANCE WITH THE REQUIREMENTS OF THE COPPER DEVELOPMENT ASSOCIATION'S "THE COPPER TUBE HANDBOOK" INCLUDING REAMING AND DE-BURRING.
HW CW HWR	DOMESTIC HOT WATER PEX PIPING DOMESTIC COLD WATER PEX PIPING DOMESTIC HOT WATER RECIRCULATING PEX PIPING
	PEX TUBE AND FITTINGS PEX DISTRIBUTION SYSTEM: ASTM F 1807, METAL-INSERT TYPE WITH COPPER OR STAINLESS-STEEL CRIMP RINGS AND MATCHING PEX TUBE DIMENSIONS.
	MANIFOLD: MULTIPLE-OUTLET, PLASTIC OR CORROSION-RESISTANT METAL ASSEMBLY, COMPLYING WITH ASTM F 877; WITH PLASTIC OR CORROSION-RESISTANT-METAL VALVE FOR EACH OUTLET
W GW V	WASTE PIPING GREASE WASTE PIPING VENT PIPING
	PLASTIC PIPE: POLY (VINYL CHLORIDE) (PVC) ASTM D 2865 SOLID CORE SCHEDULE 40 PLAIN ENDS.
	ACRYLONITRILE BUTADIENE STYRENE (ABS) ASTM D 2861 SOLID CORE SCHEDULE 40 PLAIN ENDS
	CAST IRON: SERVICE WEIGHT CAST IRON COATED HUB LESS SOIL PIPE CONFORMING TO THE REQUIREMENTS OF CISPI STANDARD 301, ASTM A888 OR ASTM A74.
	PIPE FITTINGS: PVC: DWV PIPE FITTINGS CONFORMING TO ASTM D 2865 MADE TO ASTM D3311 SOCKET-TYPE DRAIN WASTE AND VENT PIPE PATTERNS.
	SOLVENT CEMENTS: ASTM D 2564 AND ASTM F 656 PRIMER
	PVC TO ABS TRANSITION ASTM D 3138 COLOR OTHER THAN ORANGE
	ABS: DWV PIPE FITTINGS CONFORMING TO ASTM D 2861 SOLID CORE MADE TO ASTM D 3311 SOCKET-TYPE DRAIN WASTE AND VENT PIPE PATTERNS
	SOLVENT CEMENT: ASTM D 2235
	CAST IRON: HUBLESS CAST IRON CONFORMING TO CISPI 310 HAVING ASTM C 564 NEOPRENE SEALING SLEEVE WITH 300 SERIES STAINLESS STEEL CORRUGATED SHIELD AND CLAMP ASSEMBLY.

PLUMBING PIPING SCHEDULE	
SYMBOL	DESCRIPTION
G	NATURAL GAS PIPING
	STEEL PIPE: 4" AND SMALLER, SCHEDULE 40 OR SCHEDULE 80 BLACK CONFORMING TO ASTM-A53 GRADE A. SIZE 5" AND LARGER, SCHEDULE 40 OR SCHEDULE 80 BLACK CONFORMING TO ASTM-A53 GRADE F.
	STEEL PIPE FITTINGS: 2" AND SMALLER, MALLEABLE THREADED FITTINGS, ANSI B16.3, CLASS 150 STANDARD PATTERN FOR THREADED FITTINGS. THREADS SHALL CONFORM TO ANSI B1.20.1.
	2-1/2" AND LARGER, SCHEDULE 40 WROUGHT STEEL WELDING FITTINGS CONFORMING TO ANSI B16.28.
D	CONDENSATE DRAIN DOMESTIC
	TYPE L HARD DRAWN COPPER CONFORMING TO ANSI H23.1
	COPPER TUBE FITTINGS: 2-1/2" AND SMALLER: WROUGHT COPPER, SOLDER JOINT PRESSURE FITTINGS CONFORMING TO ASME B16.22
	SOLDER WITH NON LEAD SOLDER IN ACCORDANCE WITH THE REQUIREMENTS OF THE COPPER DEVELOPMENT ASSOCIATION'S "THE COPPER TUBE HANDBOOK" INCLUDING REAMING AND DE-BURRING.
RD OFD	ROOF DRAIN PIPING OVERFLOW ROOF DRAIN PIPING
	PLASTIC PIPE: POLY (VINYL CHLORIDE) (PVC) ASTM D 2865 SOLID CORE SCHEDULE 40 PLAIN ENDS.
	ACRYLONITRILE BUTADIENE STYRENE (ABS) ASTM D 2861 SOLID CORE SCHEDULE 40 PLAIN ENDS
	CAST IRON: SERVICE WEIGHT CAST IRON COATED HUB LESS SOIL PIPE CONFORMING TO THE REQUIREMENTS OF CISPI STANDARD 301, ASTM A888 OR ASTM A74.
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	SOLVENT CEMENT: ASTM D 2235
	CAST IRON: HUBLESS CAST IRON CONFORMING TO CISPI 310 HAVING ASTM C 564 NEOPRENE SEALING SLEEVE WITH 300 SERIES STAINLESS STEEL CORRUGATED SHIELD AND CLAMP ASSEMBLY.
LABELING OF WATER DISTRIBUTION PIPES	
	1. DOMESTIC HOT WATER DHW 2. DOMESTIC HOT WATER RECIRCULATING DHWR 3. DOMESTIC COLD WATER CW
	EACH LABEL SHALL INDICATE PIPE CONTENT AND THE DIRECTION OF FLOW IN THE PIPE. THE LABEL SHALL BE AT INTERVALS BETWEEN LABELS SHALL NOT BE MORE THAN 25 FEET. THERE SHALL NOT BE LESS THAN ONE IDENTIFICATION LABEL ON EACH PIPE IN EACH ROOM, SPACE, OR STORY AND IN ACCORDANCE WITH 2018IPC 606.7.
	NON-POTABLE WATER SHALL BE LABELED IN ACCORDANCE WITH WITH 2018 IPC 608.9. IDENTIFICATION OF NON-POTABLE WATER SYSTEMS AND ALL SUBSECTIONS, OF SECTION 608.6.809.
DISINFECTION OF POTABLE WATER SYSTEM	
	IPC 602.03.4 DISINFECTION OF SYSTEM, AFTER CONSTRUCTION, THE INDIVIDUAL WATER SUPPLY SYSTEM SHALL BE PURGED OF DELETERIOUS MATTER AND DISINFECTED IN ACCORDANCE WITH SECTION 610.
	IPC 610 1. THE PIPE SYSTEM SHALL BE FLUSHED CLEAN, POTABLE WATER UNTIL DIRTY WATER DOES NOT APPEAR AT THE POINT OF OUTLET. 2. THE SYSTEM OF PART THEREOF SHALL BE FILLED WITH A WATER/ CHLORINE SOLUTION CONTAINING NOT LESS THAT 50 PARTS PER MILLION (50 mg/L) OF CHLORINE, AND THE SYSTEM OF PART THEREOF SHALL BE VALVED OFF AND ALLOWED TO STAND FOR 24 HOURS; OR THE SYSTEM OR PART THEREOF SHALL BE FILLED WITH A WATER/CHLORINE SOLUTION CONTAINING NOT LESS THAN 200 PARTS PER MILLION (200 mg/L) OF CHLORINE AND ALLOWED TO STAND FOR 3 HOURS. 3. FOLLOWING THE REQUIRED STANDING TIME, THE SYSTEM SHALL BE FLUSHED WITH CLEAN POTABLE WATER UNTIL THE CHLORINE IS PURGED FROM THE SYSTEM. 4. THE PROCEDURE SHALL BE REPEATED WHERE SHOWN BY A BACTERIOLOGICAL EXAMINATION THAT CONTAMINATION REMAINS PRESENT IN THE SYSTEM.

PLUMBING INSULATION SCHEDULE																															
<p><b>NOTES:</b></p> <p>ALL INSULATION SHALL HAVE SURFACE BURNING CHARACTERISTICS, AS TESTED BY ASTM E84, UL723 OR NFPA 255 NOT EXCEEDING : FLAME SPREAD 25 AND SMOKE DEVELOPED 50.</p> <p>COMPOSITE SHALL INCLUDE INSULATION JACKETING AND ADHESIVES USED TO SECURE JACKETING OR FACING. ALL ACCESSORY ITEMS SUCH AS PVC JACKETING AND FITTINGS, ADHESIVES, MASTIC, CEMENT, TAPE AND CLOTH SHALL HAVE SAME COMPONENT RATING AS ABOVE.</p> <p><b>PIPE INSULATION:</b></p> <p>FIBERGLASS SECTIONAL PIPE INSULATION: THERMAL CONDUCTIVITY OF 0.23 BUT-IN PER SQ FT PER HOUR AT 75 DEG F MEAN TEMPERATURE. MINIMUM DENSITY OF 2 LBS PER CUBIC FOOT. JACKETED WITH WHITE VAPOR BARRIER LAMINATED OF ALUMINUM FOIL AND WHITE KRAFT REINFORCED WITH GLASS FIBER STRANDS. JACKET SHALL HAVE FACTOR APPLIED SELF-SEALING LAP.</p> <p><b>PLASTIC INSULATION FITTING COVERS:</b></p> <p>FACTORY FABRICATED FINNING COVERS MANUFACTURED FROM 30-MIL THICK, HIGH-IMPACT ULTRAVIOLET RESISTANT PVC.</p> <p><b>PIPE INSULATION INSTALLATION:</b></p> <p>INSTALLATION SHALL BE CONTINUOUS THROUGH WALLS, FLOORS, PARTITIONS, SLEEVES AND PIPE HANGERS.</p> <p>APPLY INSULATION TO PIPE AND SEAL WITH SELF-SEALING LAP. USE SELF-SEALING BUTT STRIPS TO SEAL BUTT JOINTS. INSULATION NOT REQUIRED OVER UNION, AND VALVE BODIES ON DOMESTIC HOT WATER.</p> <p>INSTALL PLASTIC FITTING COVERS IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS.</p> <p>INSULATION INSTALLED OUTSIDE SHOULD BE COVERED WITH ALUMINUM JACKET.</p> <p><b>PIPE INSULATION THICKNESS:</b></p> <table border="1"> <thead> <tr> <th>INSULATION THICKNESS</th> <th>RUN OUTS TO 2"</th> <th>1" AND LESS</th> <th>1-1/4" TO 2"</th> <th>2-1/2" TO 4"</th> <th>5" TO 6"</th> </tr> </thead> <tbody> <tr> <td>DOMESTIC HOT WATER</td> <td>1/2"</td> <td>1"</td> <td>1"</td> <td>1-1/2"</td> <td>1-1/2"</td> </tr> <tr> <td>DOMESTIC HOT WATER RECIRCULATING</td> <td>1/2"</td> <td>1"</td> <td>1"</td> <td>1-1/2"</td> <td>1-1/2"</td> </tr> <tr> <td>DOMESTIC COLD WATER</td> <td>1/2"</td> <td>1/2"</td> <td>1/2"</td> <td>1/2"</td> <td>1/2"</td> </tr> <tr> <td>ROOF DRAINS</td> <td>1/2"</td> <td>1/2"</td> <td>1/2"</td> <td>1/2"</td> <td>1/2"</td> </tr> </tbody> </table>		INSULATION THICKNESS	RUN OUTS TO 2"	1" AND LESS	1-1/4" TO 2"	2-1/2" TO 4"	5" TO 6"	DOMESTIC HOT WATER	1/2"	1"	1"	1-1/2"	1-1/2"	DOMESTIC HOT WATER RECIRCULATING	1/2"	1"	1"	1-1/2"	1-1/2"	DOMESTIC COLD WATER	1/2"	1/2"	1/2"	1/2"	1/2"	ROOF DRAINS	1/2"	1/2"	1/2"	1/2"	1/2"
INSULATION THICKNESS	RUN OUTS TO 2"	1" AND LESS	1-1/4" TO 2"	2-1/2" TO 4"	5" TO 6"																										
DOMESTIC HOT WATER	1/2"	1"	1"	1-1/2"	1-1/2"																										
DOMESTIC HOT WATER RECIRCULATING	1/2"	1"	1"	1-1/2"	1-1/2"																										
DOMESTIC COLD WATER	1/2"	1/2"	1/2"	1/2"	1/2"																										
ROOF DRAINS	1/2"	1/2"	1/2"	1/2"	1/2"																										
*GENERAL NOTES*																															
<p>COORDINATE ALL SUSPENDED EQUIPMENT WITH ARCHITECTURAL REFLECTED CEILING PLAN.</p> <p>IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO COORDINATE HIS WORK WITH ALL OTHER TRADES.</p> <p>COORDINATE ALL ROOF PENETRATIONS WITH STRUCTURAL DRAWINGS.</p> <p>ALL FIXTURES ARE DESIGNED TO BE FIXED IN POSITION SHALL BE SECURELY FASTENED IN PLACE.</p> <p>ALL QUESTION MUST BE SUBMITTED TO THE ARCHITECT IN THE FORM OF AN RFI. ANY RFI SENT DIRECTLY TO ENGINEER WILL BE RETURNED UNREAD.</p> <p>ANY RFI'S THAT HAVE BEEN CORRECTED OR APPROVED BY THE ENGINEER WILL BE JUST FOR CLARIFICATION, AND DOES NOT CONSTITUTE A CHANGE ORDER.</p> <p>CHANGE ORDERS MUST BE SUBMITTED TO THE ARCHITECT, THE CHANGE ORDER SHALL BE COMPLETE BY LISTING THE FINAL PRICING WITH PROPER BREAKDOWN AND DOCUMENTATION. POSSIBLE TIME EXTENSION OR DELAY AND THE ASSOCIATED COST FOR THE TIME EXTENSION OR DELAY, MATERIAL AND LABOR COST.</p> <p>RFI'S WITH BE RETURNED TO ARCHITECT FROM ENGINEER WITHIN 5 WORKING DAYS.</p> <p>CHANGE ORDERS WILL BE RETURNED TO ARCHITECT FROM ENGINEER WITHIN 15 DAYS.</p> <p>DO NOT PROCEED WITH RFI UNTIL CHANGE ORDER HAS BEEN APPROVED BY ARCHITECT, OWNER AND ENGINEER. IF CONTRACTOR DOES SO IT WILL BE AT THERE OWN RISK.</p> <p>IF TIME EXTENSIONS AND/OR DELAYS ARE INCURRED DUE TO FAILURE TO ISSUE AN RFI, CHANGE REQUEST, CHANGE ORDER, OR IMPROPER AND/OR INCOMPLETE DOCUMENTATION THE COST ASSOCIATED WITH THE DELAY WILL BE BORNE BY THE CONTRACTOR.</p>																															
<p><b>DALE R. WILDE CO.</b> CONSULTING ENGINEERS 428 WINCHESTER SUITE 240 SALT LAKE CITY, UTAH 84107 PHONE 801-433-1125 - EMAIL WILDE@DRWCO.COM</p>																															
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Date

03/01/24

Revisions


Project

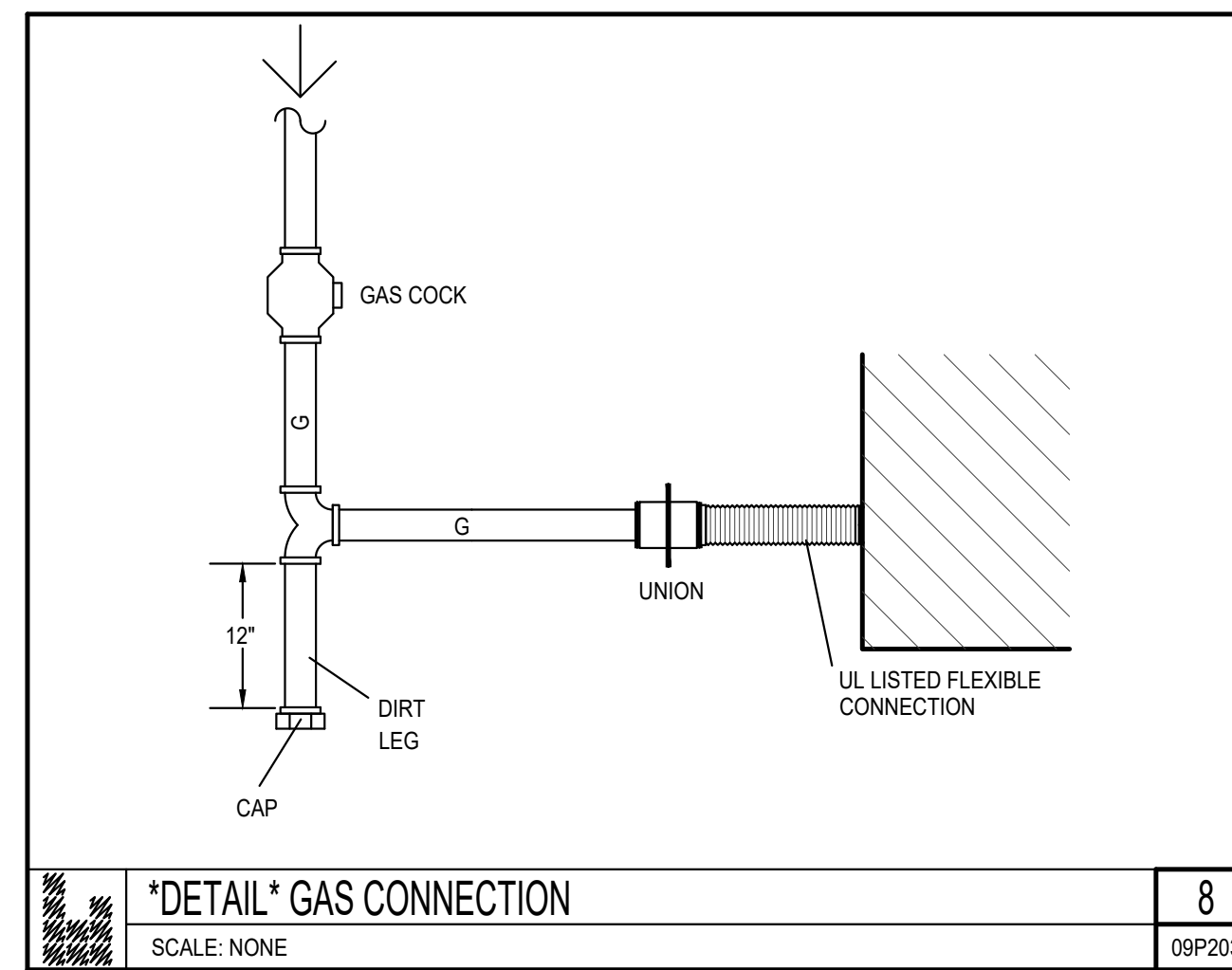
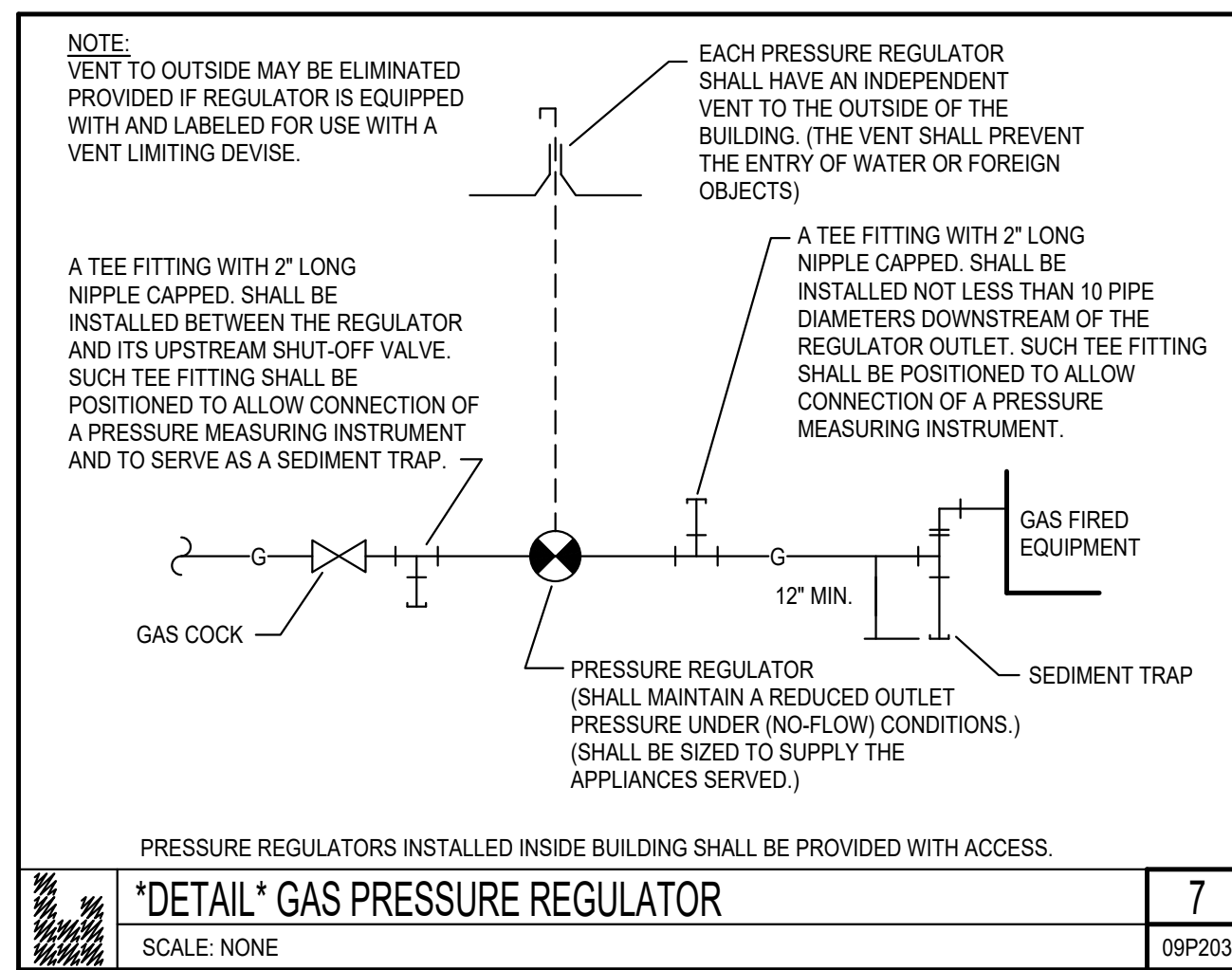
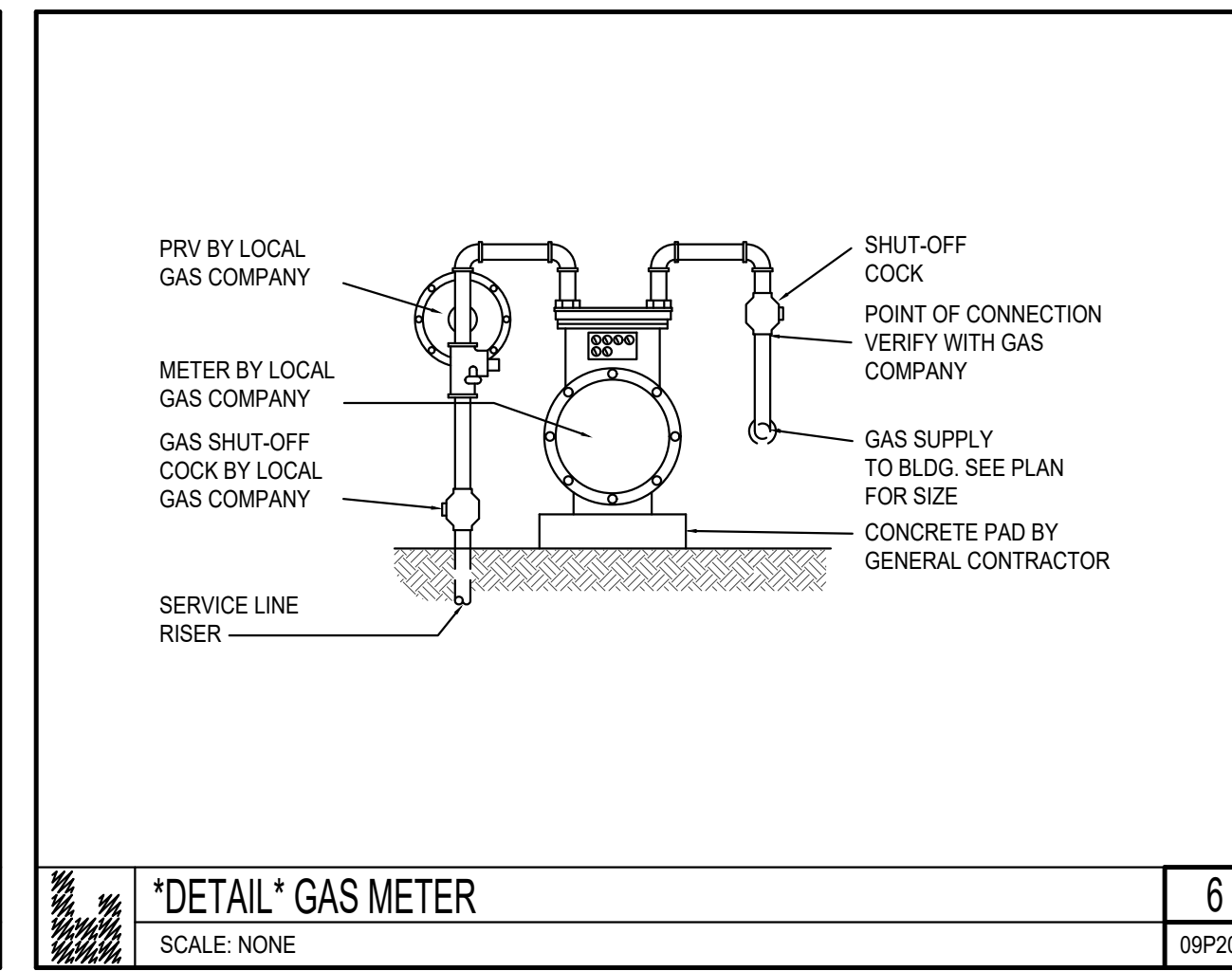
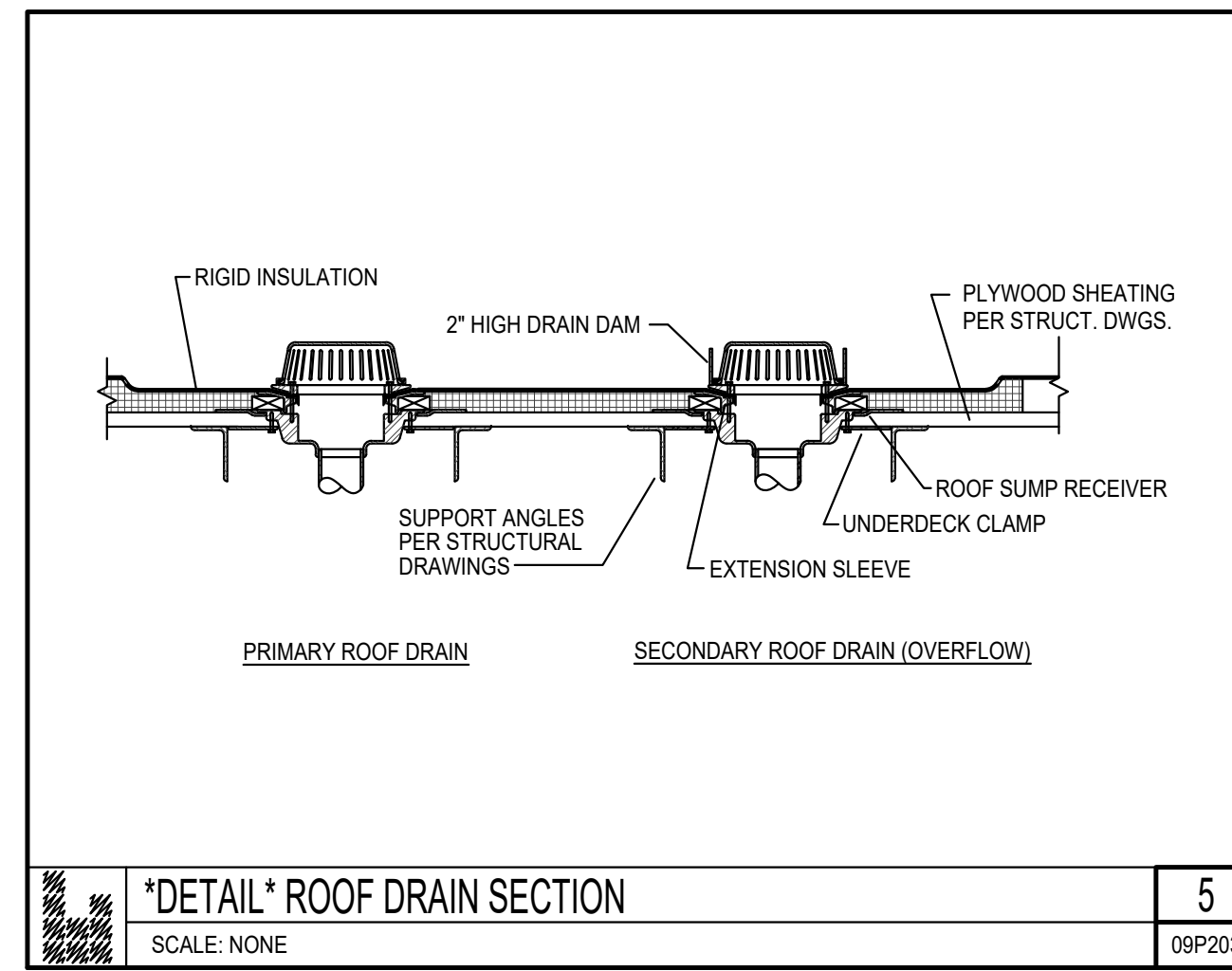
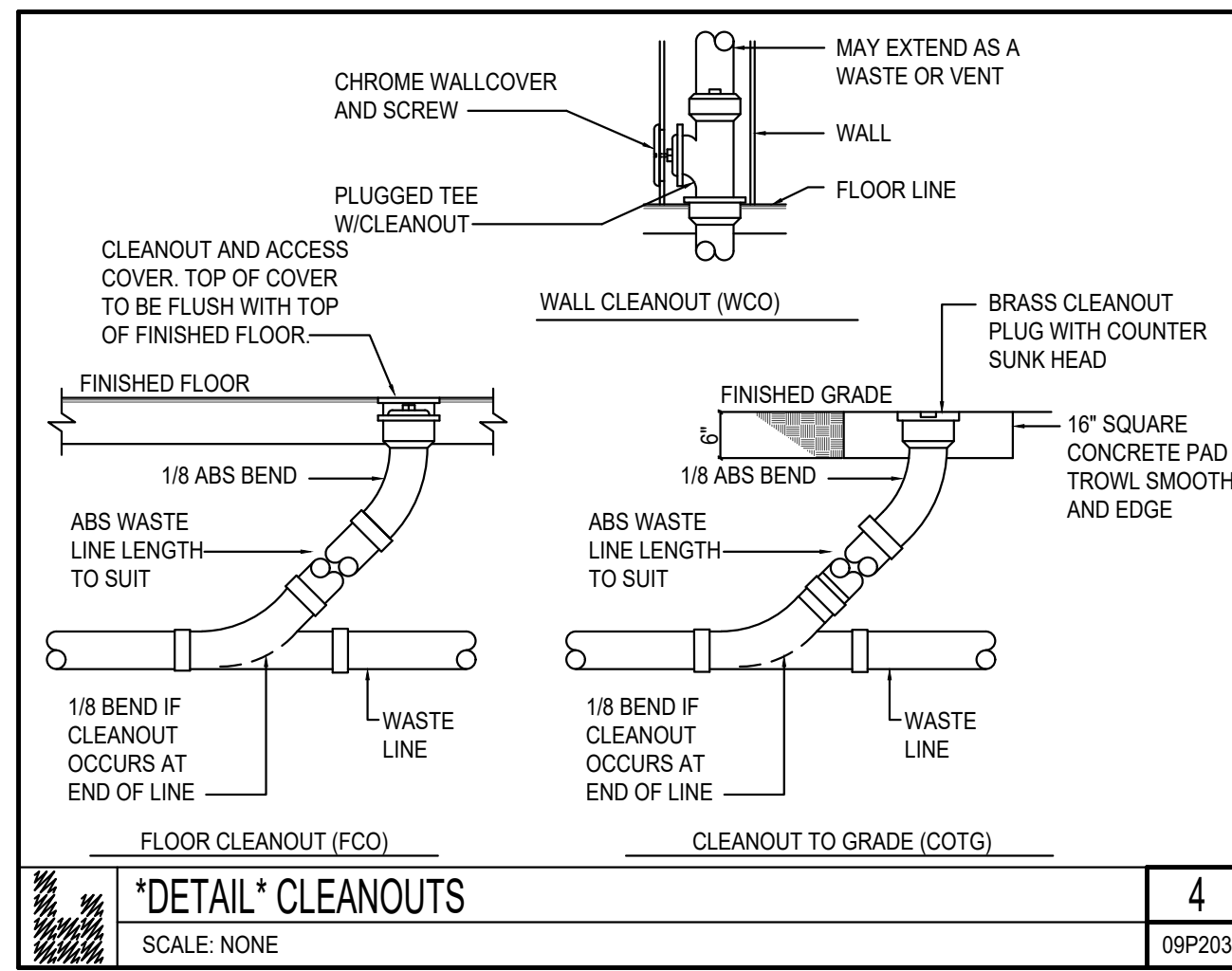
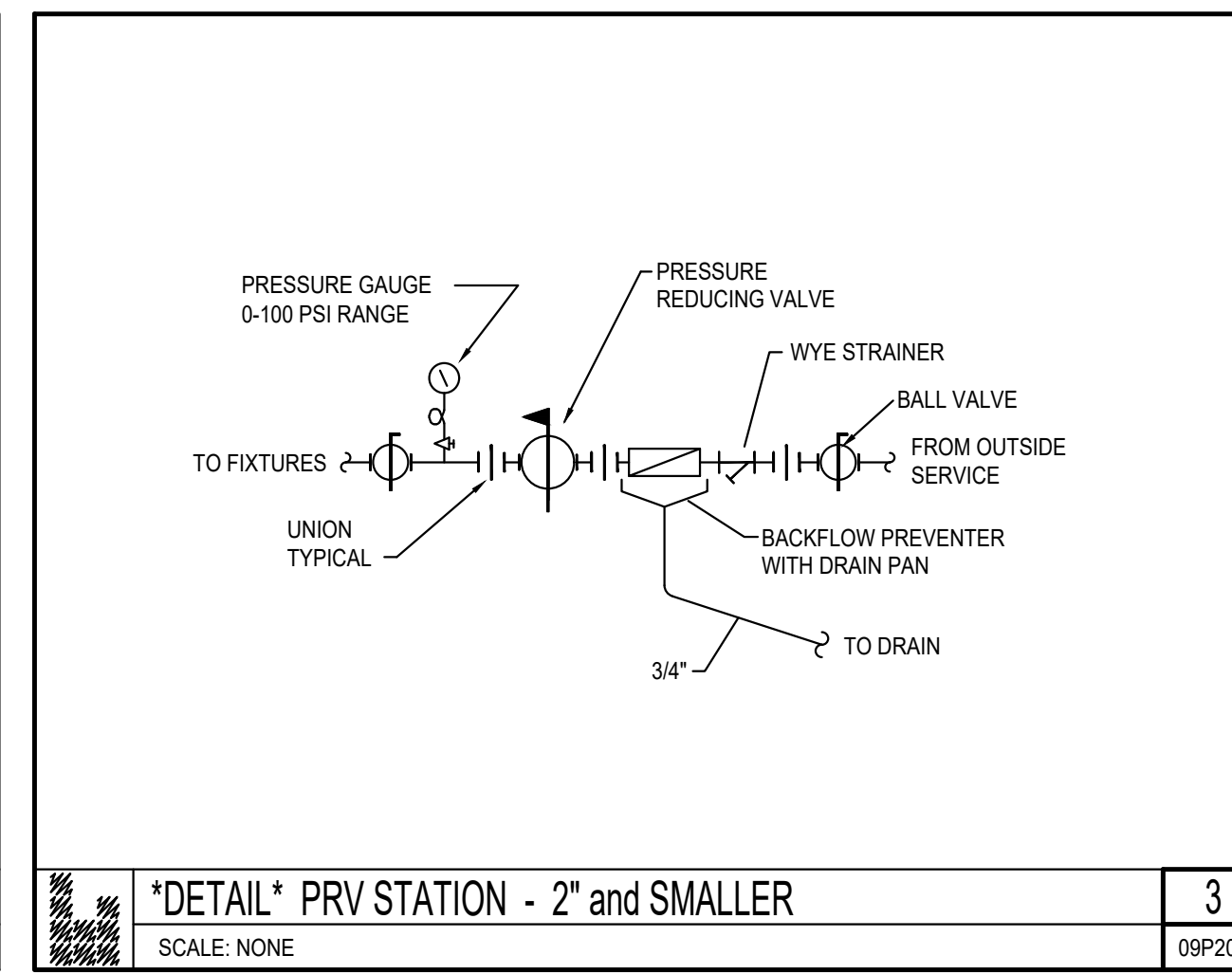
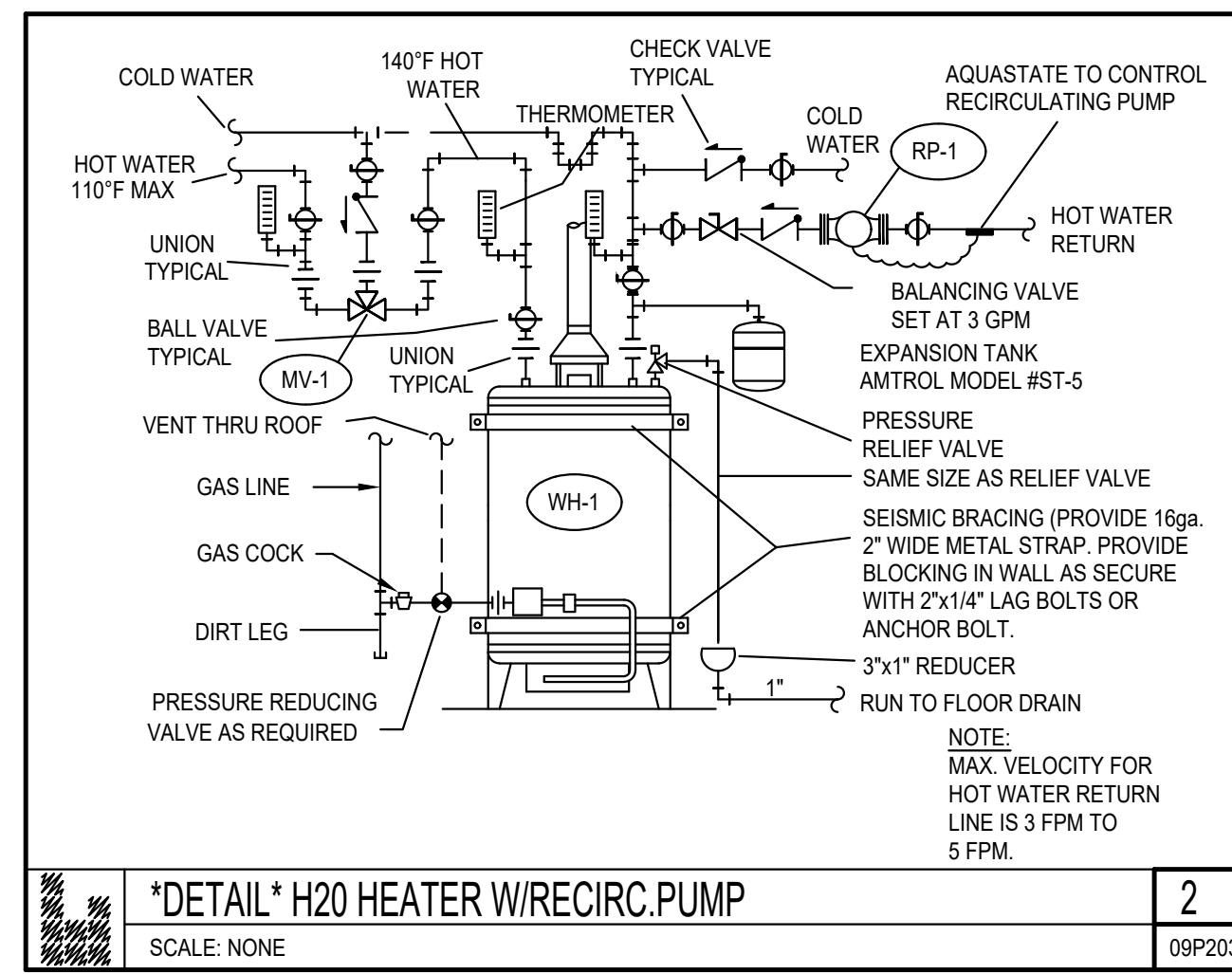
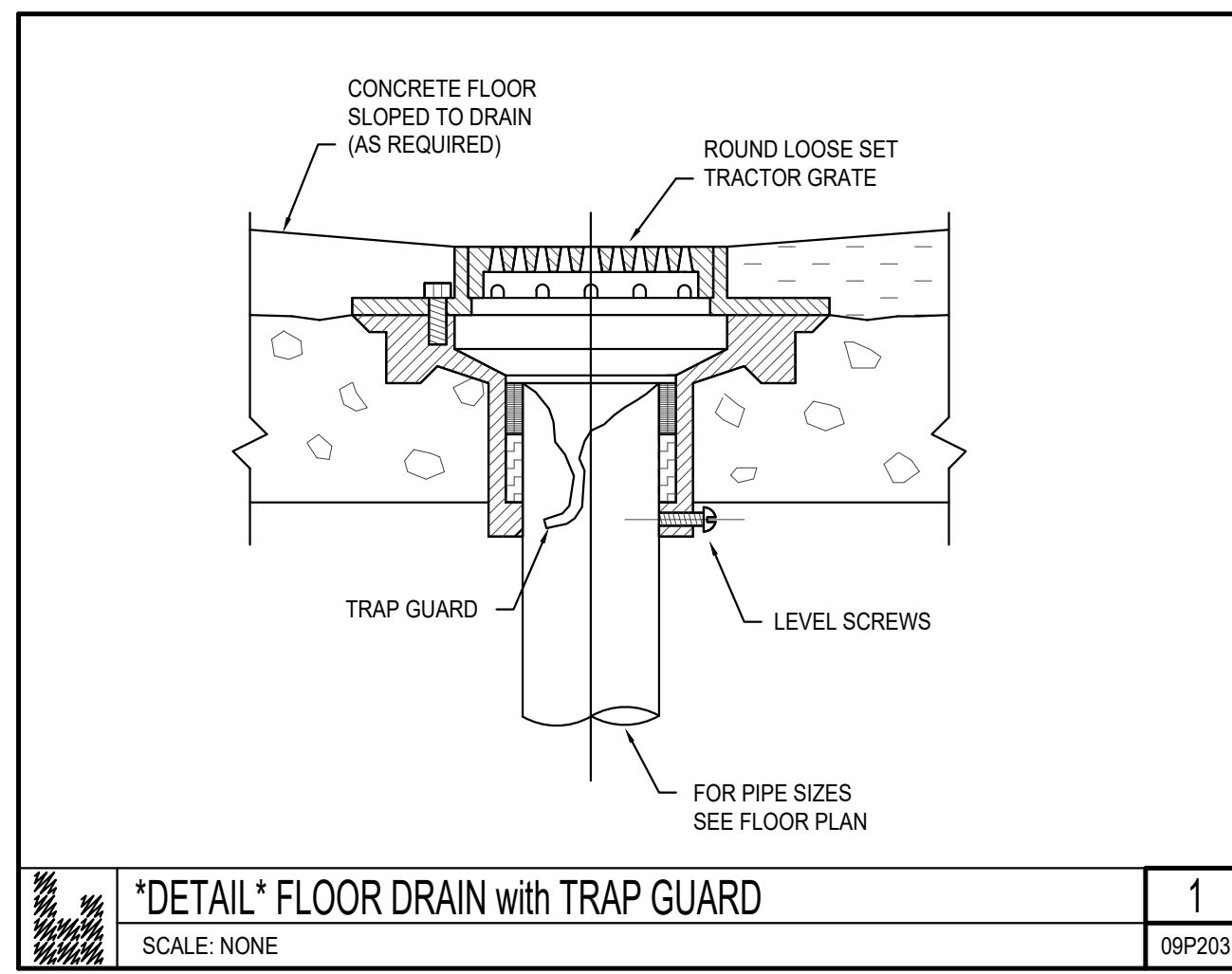
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NORTH PLANT ADMINISTRATION OFFICE BUILDING  
SOUTH DAVIS SEWER DISTRICT  
1800 WEST 1200 NORTH  
WEST BOUNTIFUL, UTAH

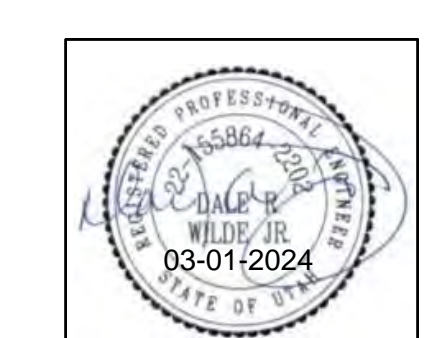
09P202

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Project 24-001  
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Date	03/01/24
Revisions	09P203



PLUMBING FIXTURE SCHEDULE							
SYMBOL	FIXTURE	MANUFACTURER	MODEL NUMBER	WASTE	VENT	HOT WATER	COLD WATER
WC-1	WATER CLOSET FLOOR MOUNTED FLUSH VALVE	AMERICAN STANDARD	2234001.02	4"	2"		1"
		KOHLER	K-4304-SS-0				
		TOTO	CT705EN				
	FLUSH VALVE EXPOSED	AMERICAN STANDARD	6147121.002				
		DELANY	402-1-T42				
		SLOAN	ROYAL 111				
		ZURN	Z6000-WSI				
	SEAT	AMERICAN STANDARD	5901100.02				
		BEMIS	1955-C				
		BENEKE	523				
CHURCH		295C					
COMFORT SEATS		C106C					
NOTES:	1. CHOOSE ONE MANUFACTURER FOR EACH CATEGORY. 2. SIPHON JET FLUSH, 1.28 GALLONS PER FLUSH. 3. VITREOUS CHINA. 4. ELONGATED BOWL - WITH 1-1/2" TOP SPUD. 5. OPEN FRONT SEAT, STAINLESS STEEL HINGE POST AND CHECK.						

WC-2	WATER CLOSET FLOOR MOUNTED FLUSH VALVE A.D.A.	AMERICAN STANDARD	3043001.02	4"	2"		1"
		KOHLER	K-96057-0				
		TOTO	CT705ELN				
	FLUSH VALVE EXPOSED	AMERICAN STANDARD	6147121.002				
		DELANY	402-1-T42				
		SLOAN	ROYAL 111				
		ZURN	Z6000-WSI				
	SEAT	AMERICAN STANDARD	59011000.02				
		BEMIS	1955-C				
		BENEKE	523				
CHURCH		295C					
COMFORT SEATS		C106C					
NOTES:	1. CHOOSE ONE MANUFACTURER FOR EACH CATEGORY. 2. SIPHON JET FLUSH, 1.28 GALLONS PER FLUSH. 3. VITREOUS CHINA. 4. ELONGATED BOWL - WITH 1-1/2" TOP SPUD. 5. OPEN FRONT SEAT, STAINLESS STEEL HINGE POST AND CHECK.						

WH-1	40 GALLON GAS FIRED WATER HEATER	BRADFORD WHITE	RG2PDV40T6N			3/4"	3/4"
	EXPANSION TANK	AMTROL	ST-12				
		ELBI	XT-15				
PRESSURE RELIEF VALVE	WATTS REGULATOR	DET-12					
NOTES:	1. CHOOSE ONE MANUFACTURER FOR EACH CATEGORY. 2. RECOVERY RATE OF 43 G.P.H. AT A 100 DEGREE F. TEMPERATURE RISE. 3. 40 GALLON GLASS LINED STORAGE TANK. 4. ENAMELED STEEL JACKET WITH HIGH DENSITY FIBERGLASS INSULATION. 5. 150 P.S.I. WORKING PRESSURE. 6. 40,000 BTUH - NATURAL GAS - 2" PVC AIR INTAKE AND 2" PVC EXHAUST AIR. 7. DEDICATED 120 VOLT ELECTRICAL CIRCUIT FOR THE SPARK IGNITION. 8. ASME AND U.L. LISTED. 9. SET WATER TEMPERATURE AT 140 DEGREE F. 10. 5 YEAR WARRANTY. 11. WATER HEATER TO BE 80% EFFICIENCY MIN. 12. SEE DETAIL ON DRAWING.						



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Date  
**03/01/24**  
**09P302**

POWER				TELECOMMUNICATIONS			
	ISOLATED GROUND RECEPTACLE	+18" OR AS NOTED	2. 9.		WIRELESS ACCESS POINT, TWO CABLES SOLID = WALL, DASHED = CEILING	WALL / CEILING	11.
	TAMPER-PROOF RECEPTACLE	+18" OR AS NOTED	2. 9.		SPLITTER	ABOVE CEILING	
	DUPLEX RECEPTACLE WITH USB OUTLET	+18" OR AS NOTED	2. 9.		VIA	ABOVE CEILING	
	CONTROLLED DUPLEX RECEPTACLE	+18" OR AS NOTED	2. 9.		FIBER BDA	ABOVE CEILING	
	FOURPLEX RECEPTACLE EMERGENCY POWER (RED)	+18" OR AS NOTED	2. 9. 11.		ANTENNA PS = PUBLIC SAFETY COM = CELLULAR/COMMERCIAL	CEILING	
	CONTROLLED FOURPLEX RECEPTACLE	+18" OR AS NOTED	2. 9.				
	TVSS PROTECTED RECEPTACLE	+18" OR AS NOTED	2. 9.				
	SPECIAL PURPOSE OUTLET	+18" OR AS NOTED	2. 10. W/CAP.				
	CORD DROP		SEE DIAGRAM				
	CORD REEL		SEE DIAGRAM				
	TOMBSTONE RECEPTACLE						
	POWER POLE						
	SINGLE / DUAL PORT ELECTRICAL VEHICLE CHARGER						

TELECOMMUNICATIONS			
	WALL PHONE	+60" OR AS NOTED	2.
	DATA OUTLET, ONE CABLE	+18" OR AS NOTED	2. 9. 11.
	DATA OUTLET, TWO CABLES	+18" OR AS NOTED	2. 9. 11.
	DATA OUTLET, THREE CABLES	+18" OR AS NOTED	2. 9. 11.
	DATA OUTLET, "X" INDICATES QUANTITY	+18" OR AS NOTED	2. 9. 11.
	TELEVISION OUTLET	+18" OR AS NOTED	9. 11.

FIRE ALARM			
	BELL	+94"	2.
	CHIME / STROBE	+94" / CEILING	2.
	FIRE ALARM MANUAL STATION	+46"	2.
	FIRE ALARM SIGNAL HORN / STROBE	+94" / CEILING	2.
	CONCEALED FIRE ALARM HORN / STROBE	CEILING	
	CONCEALED FIRE ALARM HORN / STROBE WALL	+94"	2.
	FIRE ALARM SPEAKER / STROBE	+94" / CEILING	2.
	CONCEALED FIRE ALARM SPEAKER / STROBE	CEILING	
	CONCEALED FIRE ALARM SPEAKER / STROBE WALL	+94"	2.
	FIRE ALARM STROBE	+94" / CEILING	2.
	CONCEALED FIRE ALARM STROBE	CEILING	
	CONCEALED FIRE ALARM STROBE WALL	+94"	2.
	FIRE ALARM SPEAKER ONLY	+94" / CEILING	2.
	FIRE ALARM STROBE WITH BLUE COLORED LENS (CO VISUAL ALARM)	+94" / CEILING	2.
	FIRE ALARM ANNUCIATOR PANEL	+58"	2. SEE DIAGRAM
	ASPIRATING SMOKE DETECTION SYSTEM	CEILING	MOUNT AS PER MFR.
	BEAM DETECTOR		MOUNT AS PER MFR.

COLOR LEGEND			
	LIGHTING FIXTURES		POWER DEVICES
	LIGHTING DEVICES		TELECOMMUNICATIONS
	POWER EQUIPMENT		FIRE ALARM
	CABLE TRAY		CONDUIT
	AUDIOVISUAL		SECURITY
	NURSECALL		

## SYMBOL LEGEND

NOTES:

- SEE FIXTURE SCHEDULE FOR TYPE, MOUNTING AND WATTAGE.
- HEIGHT MEASURED TO CENTER LINE OF THE BOX FROM THE FINISHED FLOOR.
- REFER TO DRAWINGS FOR DIRECTIONAL ARROWS.
- SUBSCRIPT INDICATES FIXTURES TO BE CONTROLLED.
- NEMA TYPE 'ND' NON-FUSED UNLESS NOTED 'F' (FUSED), USE 'HD' 480 V.
- HEIGHT MEASURED TO TOP OF THE BOX FROM FINISHED FLOOR.
- PROVIDE H.O.A. AND S.S. PUSHBUTTONS AS REQUIRED.
- DOUBLE ARROWS INDICATES A DOUBLE FACE UNIT.
- DEVICES NOTED WITH AN 'A' INDICATE TO COORDINATE WITH MILLWORK SHOP DRAWINGS AND ELEVATIONS FOR HEIGHT.
- SUBSCRIPT INDICATES NEMA CONFIGURATION.
- SOLID BOX AROUND DEVICE INDICATES INSTALLED IN FLOOR. DASHED BOX AROUND DEVICE INDICATES INSTALLED IN CEILING.
- COORDINATE WITH DOOR HARDWARE SUPPLIER.
- FOR WATER COOLER LOCATION, SEE DIAGRAM R002. FOR ALL OTHER LOCATIONS, MOUNT AT +16" TO BOTTOM OF BOX FROM FINISHED FLOOR, OR AS NOTED.
- ARROWS SHOWN ON DEVICE INDICATE SENSOR AIMING DIRECTION.
- CAMERA NUMBERS ARE SHOWN INSIDE THE CAMERA SYMBOL. CAMERA TYPES ARE INDICATED IN TAG.
- MOUNT ON TRACK OF OVERHEAD DOOR, 6" FROM TOP OF DOOR, UNLESS OVERHEAD DOOR IS A ROLL UP DOOR, THEN MOUNT PER MANUFACTURER'S INSTRUCTIONS.
- INSTALL DEVICES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- DASHED LINE INDICATES EQUIPMENT CLEARANCES. ARROW INDICATES FRONT OF RACK.
- SPEAKER TO BE MOUNTED IN HORIZONTAL POSITION.
- MOUNTING HEIGHT IS TO BOTTOM OF DISPLAY.

\*TYPICAL SYMBOL SCHEDULE. SOME SYMBOLS MAY NOT BE USED ON THIS SET OF DRAWINGS.

STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS			
GENERAL			
SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES
	ONE CIRCUIT, HOME RUN TO PANEL		
	2 CIRCUIT, HOME RUN TO PANEL		
	3 CIRCUIT, HOME RUN TO PANEL		
	CONDUIT RUN CONCEALED IN WALL OR CEILING		
	CONDUIT RUN CONCEALED IN FLOOR OR GROUND		
	CONDUIT UP		
	CONDUIT DOWN		
	CONDUIT STUB LOCATION	CAP CONDUIT	
	CONDUIT / CIRCUIT CONTINUATION		

MULTIPLE SYSTEM SYMBOLS			
	RECEPTACLE SWITCH PACK	ABOVE CEILING	
	DUPLEX RECEPTACLE	+18" OR AS NOTED	2. 9.
	SIMPLEX RECEPTACLE	+18" OR AS NOTED	2. 9.
	DUPLEX RECEPTACLE	+18" OR AS NOTED	2. 9. 11.
	DUPLEX RECEPTACLE		9.
	5mA GFCI CIRCUIT BREAKER PROTECTED RECEPTACLE		13.
	WEATHERPROOF RECEPTACLE	+24" OR AS NOTED	2. 9.
	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE	+18" OR AS NOTED	2. 9.
	DUPLEX RECEPTACLE EMERGENCY POWER (RED)	+18" OR AS NOTED	2. 9. 11.
	FOURPLEX RECEPTACLE	+18" OR AS NOTED	2. 9. 11.
	GROUND FAULT INTERRUPTER FOURPLEX RECEPT	+18" OR AS NOTED	2. 9.
	JUNCTION BOX (7" IN FLOOR)		AS NOTED TO SUIT EQUIP.
	MOTOR OUTLET		
	PUSHBUTTON		+46" 2.
	NON-FUSED DISCONNECT SWITCH		+60" 5. 6.
	FUSED DISCONNECT SWITCH		+60" 5. 6.
	BREAKER DISCONNECT SWITCH		+60" 5. 6.
	SINGLE POLE SWITCH		+46" 2.
	MANUAL STARTER THERMAL OVERLOAD SWITCH WITH PILOT LIGHT		+46" 2. 4.
	MAGNETIC STARTER		+60" 6. 7.
	MAGNETIC STARTER / DISCONNECT COMBINATION		+60" 6. 7.
	VARIABLE FREQUENCY DRIVE		+66" 6.

LIGHTING			
	CEILING LIGHT FIXTURE	CEILING	1.
	WALL LIGHT FIXTURE	AS NOTED	1.
	RECESSED DOWNLIGHT FIXTURE	CEILING	1.
	RECESSED WALL-WASH DOWNLIGHT FIXTURE	CEILING	1.
	LIGHT FIXTURE	AS NOTED	1.
	EGRESS LIGHT FIXTURE	AS NOTED	1.
	AREA LIGHT POLE AND FIXTURE	CONCRETE BASE	1. SEE DIAGRAM
	BOLLARD	CONCRETE BASE	1.
	STEP LIGHT FIXTURE	AS NOTED	1.
	IN-GRADE LIGHT FIXTURE	CONCRETE BASE	1.
	FLOOD OR TRACK FIXTURE	AS NOTED	1.
	CEILING / WALL MOUNTED EXIT LIGHT	CEILING / AS NOTED	1. 3. 8.
	EMERGENCY LIGHT FIXTURE	AS NOTED	1.
	COMBO EXIT / EMERGENCY LIGHT FIXTURE	AS NOTED	1.
	TIME CLOCK	+60"	2.
	POWER PACK	ABOVE CEILING	SEE DIAGRAM, SPEC.
	DIGITAL ROOM CONTROLLER (SUBSCRIPT INDICATES NUMBER OF RELAYS)	ABOVE CEILING	SEE DIAGRAM, SPEC.
	EMERGENCY LIGHTING CONTROL UNIT	ABOVE CEILING	SEE DIAGRAM, SPEC.
	THREE-WAY SWITCH	+46"	2. 4.
	FOUR-WAY SWITCH	+46"	2. 4.
	KEY OPERATED SWITCH	+46"	2. 4.
	SWITCH WITH PILOT LIGHT	+46"	2. 4.
	VARIABLE INTENSITY SWITCH	+46"	2. 4.
	TIMER SWITCH	+46"	2. 4.
	MOMENTARY CONTACT SWITCH	+46"	2. 4.
	LOW VOLTAGE WALLSTATION (SUBSCRIPT INDICATES CONFIGURATION & CONTROL SEQUENCE)	+46"	2. SEE DIAGRAM, SPEC.
	DUAL TECH. CEILING MOUNTED OCCUPANCY SENSOR (PROVIDE WITH ALL PP AND ROOM CONTROLLERS)	CEILING	SEE DIAGRAM, SPEC.
	DUAL TECH. WALL MOUNTED OCCUPANCY SENSOR (SUBSCRIPT D = DIMMING AND DAYLIGHT CONTROL)	+46"	2. 4. SEE DIAGRAM, SPEC.
	PHOTO-ELECTRIC CONTROL (LOCATE ON ROOF, FACE NORTH)	AS NOTED	MOUNT AS PER MFR. SEE DIAGRAM, SPEC.
	DIGITAL DAYLIGHT SENSOR	CEILING	SEE DIAGRAM, SPEC.

FLOOR BOX SCHEDULE			
TYPE	DESCRIPTION	MFR.	CATALOG NUMBER
FB01	5 GANG MULTI PURPOSE FLOOR BOX WITH POWER, DATA AND AV DEVICES. REFER TO FLOOR PLANS FOR POWER, DATA AND AV NEEDS	WIREMOLD	EFB45S-EFB10-MB
FB02	2 COMPARTMENT FURNITURE FEED FLOOR BOX ASSEMBLY. REFER TO FLOOR PLANS FOR # OF HOME RUNS AND # OF DATA CABLES. COORDINATE WITH FURNITURE SHOP DRAWINGS FOR LOCATION OF FURNITURE WHIP PRIOR TO ROUGH-IN.	WIREMOLD	EFBFF-OG

SHEET INDEX	
09E001	ELECTRICAL SYMBOLS AND NOTES
09E002	SCHEDULES AND NOTES
09E003	ELECTRICAL SPECIFICATIONS
09E004	TELECOM SPECIFICATIONS
09E005	ELECTRICAL DIAGRAMS
09E006	ELECTRICAL DIAGRAMS
09E007	SECURITY SYMBOLS, SCHEDULES, AND NOTES
09E008	SECURITY DIAGRAMS
09E009	SECURITY SPECIFICATIONS
09E101	ELECTRICAL SITE PLAN
09E201	LIGHTING PLAN
09E301	POWER PLAN
09E320	ONE-LINE DIAGRAM & PANELBOARD SCHEDULES
09E401	FIRE ALARM & SECURITY PLAN
09T001	AUDIOVISUAL SYMBOLS AND NOTES
09T002	AUDIOVISUAL SCHEDULES
09T201	AUDIOVISUAL RCP
09T301	AUDIOVISUAL PLAN

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ELECTRICAL SPECIFICATIONS

**ELECTRICAL GENERAL PROVISIONS**

- DESCRIPTION OF WORK: EXTENT OF ELECTRICAL WORK IS INDICATED ON DRAWINGS. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SUPERVISION AND SERVICE NECESSARY FOR A COMPLETE ELECTRICAL SYSTEM. WORK INCLUDES, BUT IS NOT NECESSARILY LIMITED TO THE FOLLOWING ITEMS:
  - ELECTRICAL CONNECTIONS FOR EQUIPMENT
  - GROUNDING
  - CONDUIT RACEWAY
  - CONDUCTORS AND CABLES
  - ELECTRICAL BOXES AND FITTINGS
  - SUPPORTING DEVICES
  - ELECTRICAL SEISMIC CONTROL
  - WIRING DEVICES
  - FLOOR BOXES
  - PANELBOARDS AND SWITCHBOARDS
  - OVERCURRENT PROTECTIVE DEVICES
  - TRANSFORMERS
  - MOTOR STARTERS
  - MOTOR AND CIRCUIT DISCONNECTS
  - SURGE PROTECTIVE DEVICES (SPDS)
  - LIGHT FIXTURES
  - ELECTRICAL IDENTIFICATION
  - SECURITY SYSTEMS
  - TELECOMMUNICATIONS
  - FIRE ALARM AND DETECTION SYSTEMS
- VISIT THE SITE DURING THE BIDDING PERIOD TO DETERMINE EXISTING CONDITIONS AFFECTING ELECTRICAL AND OTHER WORK. ALL COSTS ARISING FROM SITE CONDITIONS AND/OR PREPARATION SHALL BE INCLUDED IN THE BASE BID. NO ADDITIONAL CHARGES WILL BE ALLOWED DUE TO INADEQUATE SITE INSPECTION.
- QUALITY ASSURANCE: PERFORM WORK IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC), COMPLY WITH REQUIREMENTS OF STATE AND LOCAL ORDINANCES, OBTAIN ALL PERMITS, INSPECTIONS, ETC. FROM AUTHORITY HAVING JURISDICTION (AHJ). EMPLOY ONLY QUALIFIED CRAFTSMEN WITH AT LEAST THREE YEARS OF EXPERIENCE. WORKMANSHIP SHALL BE NEAT, HAVE A GOOD MECHANICAL APPEARANCE AND CONFORM TO BEST ELECTRICAL STATE CONTRACTING LICENSE. PROVIDE EQUIPMENT AND MATERIAL THAT ARE UNDERWRITERS LABORATORIES INC. (UL) LISTED AND LABELED.
- SUBMITTALS: AFTER THE CONTRACT IS AWARDED BUT PRIOR TO MANUFACTURE OR INSTALLATION OF ANY EQUIPMENT, PREPARE COMPLETE SHOP DRAWINGS.
  - PROVIDE SUBMITTALS IN PORTABLE DOCUMENT FORMAT (PDF).
  - DOCUMENTS MUST BE ELECTRONICALLY BOOKMARKED AND KEYWORD SEARCHABLE USING ADOBE ACROBAT (HTTP://WWW.ADOBE.COM/ACROBAT) OR BLUEBEAM REVU (HTTP://WWW.BLUEBEAM.COM) FOR EACH RELEVANT SECTION. (I.E. INCLUDE ELECTRONIC BOOKMARKS SEPARATING "LIGHT FIXTURES FROM PANELBOARDS")
  - ELECTRONICALLY HIGHLIGHT ALL OPTIONS FOR LIGHT FIXTURES, ELECTRICAL EQUIPMENT, ETC. MANUAL HIGHLIGHTING AND SEPARATING OF THE DOCUMENTS IS NOT ACCEPTABLE AND WILL NOT BE REVIEWED.
  - PROVIDE ONLY COMPLETED CUTSHEETS FOR ALL FIXTURE AND EQUIPMENT TYPES. BLANK CUTSHEETS SUBMITTED WITH A SCHEDULE ARE NOT ACCEPTABLE AND WILL NOT BE REVIEWED.
  - A MAXIMUM OF ONE SUBMITTAL PER SPECIFICATION SECTION IS ALLOWED. IT IS NOT ACCEPTABLE TO PROVIDE A PRODUCT BY PRODUCT SUBMITTAL. SINGLE PRODUCT BY PRODUCT SUBMITTALS WILL NOT BE REVIEWED.
    - WIRING DEVICES
    - FLOORBOXES
    - PANELBOARDS AND SWITCHBOARDS
    - OVERCURRENT PROTECTIVE DEVICES
    - TRANSFORMERS
    - MOTOR STARTERS
    - MOTOR AND CIRCUIT DISCONNECTS
    - SURGE PROTECTIVE DEVICES (SPDS)
    - LIGHT FIXTURES
    - ELECTRICAL IDENTIFICATION
    - SECURITY SYSTEMS
    - TELECOMMUNICATIONS
    - FIRE ALARM AND DETECTION SYSTEMS
- RECORD DRAWINGS: MAINTAIN ON A DAILY BASIS, A COMPLETE SET OF RECORD DRAWINGS, REFLECTING AN ACCURATE DIMENSIONAL RECORD OF ALL BURIED OR CONCEALED WORK. MARK RECORD DRAWINGS TO SHOW THE PRECISE LOCATION OF CONCEALED WORK AND EQUIPMENT, INCLUDING CONCEALED OR EMBEDDED CONDUIT AND JUNCTION BOXES AND ALL CHANGES AND DEVIATIONS IN THE WORK FROM THAT SHOWN ON THE CONTRACT DOCUMENTS.
- OPERATION AND MAINTENANCE MANUALS: PROVIDE OPERATING INSTRUCTION AND MAINTENANCE DATA BOOKS FOR ALL EQUIPMENT AND MATERIALS FURNISHED UNDER THIS DIVISION.
- GUARANTEE: ENSURE THAT ELECTRICAL SYSTEMS INSTALLED UNDER THIS CONTRACT IS IN PROPER WIRING ORDER AND IN COMPLIANCE WITH DRAWINGS, SPECIFICATIONS, AND/OR AUTHORIZED CHANGES. WITHOUT ADDITIONAL CHARGE, REPLACE ANY WORK OR MATERIALS WHICH DEVELOP DEFECTS, EXCEPT FROM ORDINARY WEAR AND TEAR, WITHIN ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION.
- FIRE PROTECTION SEALS: SEAL ALL PENETRATIONS FOR WORK OF THIS SECTION THROUGH FIRE RATED FLOORS, WALLS, AND CEILINGS TO PREVENT THE SPREAD OF SMOKE, FIRE, TOXIC GAS, OR WATER THROUGH THE PENETRATION EITHER BEFORE, DURING AND AFTER FIRE.
- POWER OUTAGES: ALL POWER OUTAGES REQUIRED FOR EXECUTION OF THIS WORK SHALL OCCUR DURING THE NON-STANDARD WORKING HOURS AND AT THE CONVENIENCE OF THE OWNER. INCLUDE ALL COSTS FOR OVERTIME WORK IN BID.

**ELECTRICAL CONNECTION FOR EQUIPMENT**

- VERIFY EXACT LOAD AND LOCATION OF ALL EQUIPMENT BEFORE ROUGH-IN FOR EACH ELECTRICAL CONNECTION. PROVIDE COMPLETE ASSEMBLY OF MATERIAL, INCLUDING BUT NOT NECESSARILY LIMITED TO, RACEWAYS, CONDUCTORS, CORDS, CORD CAPS, PLUGS, WIRING DEVICES, PRESSURE CONNECTORS, TERMINALS (LUGS), ELECTRICAL INSULATING TAPE, HEAT-SHRINKABLE INSULATING TUBING, CABLE TIES, SOLDERLESS WIRE NUTS, AND OTHER ITEMS AND ACCESSORIES AS NEEDED TO COMPLETE SPLICES, TERMINATIONS, AND CONNECTIONS AS REQUIRED. FOR PERMANENTLY INSTALLED FIXED EQUIPMENT, PROVIDE FLEXIBLE SEAL-TITE CONNECTION. FOR MOVABLE AND/OR PORTABLE EQUIPMENT, PROVIDE WIRING DEVICE, CORD CAP, AND MULTI-CONDUCTOR CORD.

**GROUNDING**

- PROVIDE GROUNDING AND BONDING OF ALL ELECTRICAL AND COMMUNICATION APPARATUS, MACHINERY, APPLIANCES, BUILDING COMPONENTS, AND ITEMS REQUIRED BY THE NEC TO PROVIDE A PERMANENT, CONTINUOUS LOW IMPEDANCE, GROUNDING SYSTEM. PROVIDE AN NEC BONDING/GROUNDING CONDUCTOR IN ALL RACEWAYS USED FOR POWER DISTRIBUTION.

**CONDUIT RACEWAYS**

- PROVIDE METAL CONDUIT, TUBING, AND FITTINGS OF TYPES, GRADES, SIZES, AND WEIGHTS (WALL THICKNESS) AS REQUIRED; WITH MINIMUM TRADE SIZE OF 3/4". INSTALL ELECTRICAL RACEWAY SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND APPLICABLE REQUIREMENTS OF NEC AND NECA "STANDARD OF INSTALLATION" IN ACCORDANCE WITH THE FOLLOWING:
  - FEEDERS: INSTALL FEEDERS RATED 100 AMPS AND GREATER, IN ELECTRICAL METALLIC CONDUIT (EMT), WHERE BURIED BELOW GRADE, INSTALL IN CONCRETE ENCASED NON-METALLIC CONDUIT OR DUCT (SCHEDULE 40 PVC).
  - BRANCH CIRCUITS AND INDIVIDUAL EQUIPMENT CIRCUITS RATED LESS THAN 100 AMPS: INSTALL IN ELECTRICAL METALLIC TUBING (EMT) WHERE LOCATED IN POURED WALLS, BELOW CONCRETE SLAB-ON-GRADE, OR IN EARTH FILL. INSTALL IN NON-METALLIC PLASTIC DUCT (SCHEDULE 40 PVC), ENCASE NON-METALLIC PLASTIC DUCT 1-1/4" AND LARGER IN CONCRETE.
  - PROVIDE RIGID METAL CONDUIT (RMC) FOR ALL BENDS IN BURIED CONDUIT GREATER THAN 30 DEGREES. PROVIDE PROTECTIVE COATING FOR RIGID METAL CONDUIT BENDS. INSTALL FLEXIBLE CONDUIT FOR CONNECTIONS OF MOTORS, TRANSFORMERS, AND OTHER ELECTRICAL EQUIPMENT WHERE SUBJECT TO MOVEMENT AND VIBRATIONS. PROVIDE OZ, EXPANSION FITTINGS ON ALL CONDUITS CROSSING BUILDING EXPANSION JOINTS, BOTH IN SLAB AND SUSPENDED.
  - PROVIDE SURFACE RACEWAYS OF SIZES AND CHANNELS INDICATED. PROVIDE FITTINGS THAT MATCH AND MATE WITH RACEWAY.

**CONDUCTORS AND CABLES**

- PROVIDE FACTORY-FABRICATED CONDUCTORS FOR SIZED, RATINGS, MATERIAL, AND TYPES INDICATED FOR EACH SERVICE. PROVIDE COPPER CONDUCTORS, WITH THHN/THWN INSULATION. SIZE ALL CONDUCTORS IN ACCORDANCE WITH NEC; MINIMUM SIZE TO BE #12 AWG. PROVIDE STRANDED CONDUCTORS FOR #8 AWG AND LARGER.

**ELECTRICAL BOXES AND FITTINGS**

- PROVIDE ONE PIECE GALVANIZED FLAT ROLLED SHEET STEEL INTERIOR OUTLET WIRING BOXES, CORROSION-RESISTANT CAST-METAL WEATHERPROOF OUTLET WIRING BOXES, CODE-GAGE SHEET STEEL JUNCTIONS AND PULL BOXES, CAST-IRON WATERPROOF ADJUSTABLE FLOOR BOXES, GALVANIZED CAST-METAL CONDUIT BODIES, CORROSION-RESISTANT PUNCHED-STEEL BOX KNOCKOUT CLOSURES, CONDUIT LOCKOUTS AND MALLEABLE STEEL CONDUIT BUSHINGS AND OFFSET CONNECTORS, AND ALL ACCESSORIES AS REQUIRED TO SUIT EACH RESPECTIVE LOCATION AND INSTALLATION. FASTEN BOXES RIGIDLY TO SUBSTRATES OR STRUCTURAL SURFACES TO WHICH ATTACHED, OR SOLIDLY EMBED ELECTRICAL BOXES IN CONCRETE OR MASONRY. USE BAR HANGERS FOR STUD CONSTRUCTION.

**SUPPORTING DEVICES**

- PROVIDE SUPPORTS, ANCHORS, SLEEVES AND SEALS AS REQUIRED FOR A COMPLETE RACEWAY SUPPORT SYSTEM, INCLUDING BUT NOT LIMITED TO: CLEVIS HANGERS, RISER CLAMPS, C-CLAMPS, BEAM CLAMPS, ONE AND TWO HOLE CONDUIT STRAPS, OFFSET CONDUIT CLAMPS, EXPANSION ANCHORS, TOGGLE BOLTS, THREADED RODS, U-CHEMEL TRUIT SYSTEM, AND ALL ASSOCIATED ACCESSORIES. INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND WITH RECOGNIZED INDUSTRY PRACTICES TO INSURE SUPPORTING DEVICES COMPLY WITH REQUIREMENTS. PROVIDE RIGID ATTACHMENT OF ALL FLOOR MOUNTED EQUIPMENT TO THE FLOOR SLAB OR STRUCTURAL SYSTEM.

**ELECTRICAL SEISMIC CONTROL**

- PROVIDE SEISMIC CONTROL EQUIPMENT INCLUDING BUT NOT LIMITED TO: VIBRATION ISOLATORS, FLEXIBLE CONNECTIONS, RIGID STEEL FRAMES, ANCHORS, INSERTS AND ATTACHMENTS, SEISMIC SNUBBER AND BRACING TO MEET THE SEISMIC REQUIREMENTS FOR THE PROJECT SITE.

**WIRING DEVICES**

- PROVIDE GRADE FACTORY-FABRICATED WIRING DEVICES, IN TYPES, AND ELECTRICAL RATINGS FOR APPLICATIONS INDICATED AND COMPLYING WITH NEMA STD5 PUB NO. WD-1. PROVIDE HEAVY DUTY SPECIFICATION GRADE, 20- AMPERES RATED, GROUNDING TYPE CONVENIENCE OUTLETS. PROVIDE 20- AMPERES RATED TOGGLE SWITCHES. CONSTRUCT WIRING DEVICE OF HEAVY DUTY HIGH IMPACT NYLON AND PROVIDE COVER PLATES TO MATCH. PROVIDE DEVICES IN COLORS SELECTED BY ARCHITECT.

**FLOOR BOXES**

- PROVIDE LEVELING AND FULLY ADJUSTABLE FLOOR SERVICE RECEPTACLE OUTLETS AND FITTINGS OF TIME AND RATINGS AS INDICATED ON THE DRAWINGS. ALL BOXES SHALL COMPLY WITH UL STANDARD UL514A.

**PANELBOARD AND SWITCHBOARDS**

- PROVIDE GALVANIZED SHEET STEEL CABINET TYPE ENCLOSURES, IN SIZES AND NEMA TYPES AS INDICATED, CODE-GAGE MINIMUM 16-GAUGE THICKNESS. PROVIDE DEAD FRONT SAFETY TYPE PANEL BOARDS WITH DOOR-IN-DOOR HINGED FRONTS, EQUIP WITH COPPER BUS BARS, FULL-SIZED NEUTRAL AND GROUND BUS. PROVIDE ENCLOSURES FABRICATED BY SAME MANUFACTURER AS OVERCURRENT DEVICES. BOLT ENGRAVED PLASTIC LAMINATE LABELS INDICATING PANEL NAME AND VOLTAGE ON THE INTERIOR AND EXTERIOR OF PANELBOARD OR SWITCHBOARD.

**OVERCURRENT PROTECTIVE DEVICES**

- PROVIDE OVERCURRENT PROTECTIVE DEVICES OF THE SAME MANUFACTURER AS THE SWITCHBOARD AND/OR PANELBOARD MANUFACTURER. PROVIDE FACTORY-ASSEMBLED DEVICES OF AMPERAGE, VOLTAGE, AND RMS INTERRUPTING RATING SHOWN. PROVIDE DEVICES AS FOLLOWS:
  - MOLDED CASE THERMAL TRIP CIRCUIT BREAKERS:
    - PROVIDE FACTORY-ASSEMBLED BOLT-ON MOLDED CASE CIRCUIT BREAKERS WITH PERMANENT THERMAL TRIP AND ADJUSTABLE INSTANTANEOUS MAGNETIC TRIP IN EACH POLE. SERIES RATING IS NOT ACCEPTABLE. CONSTRUCT BREAKERS FOR MOUNTING AND OPERATING IN ANY PHYSICAL POSITION AND IN AN AMBIENT TEMPERATURE OF 40 DEGREES C.
    - CIRCUIT BREAKERS 15 AMPS THROUGH 599 AMPS SHALL BE MOLDED CASE SOLID-STATE CIRCUIT BREAKERS.
  - MOLDED CASE SOLID-STATE CIRCUIT BREAKERS
    - PROVIDE FACTORY ASSEMBLED BOLT-ON MOLDED CASE CIRCUIT BREAKERS UL LISTED FOR APPLICATION AT 100% OF THEIR CONTINUOUS AMPERE RATING.
    - CIRCUIT BREAKERS 600 AMPS THROUGH 1200 AMPS SHALL BE MOLDED CASE SOLID-STATE CIRCUIT BREAKERS.
    - SOLID-STATE TRIP MECHANISMS SHALL HAVE THE FOLLOWING FUNCTIONS: ADJUSTABLE LONG TIME AMPERE RATING; ADJUSTABLE LONG TIME DELAY; SHORT TIME PICK UP; ADJUSTABLE SHORT TIME DELAY; ADJUSTABLE INSTANTANEOUS PICK UP.
  - INSULATED CASE CIRCUIT BREAKERS
    - PROVIDE FACTORY ASSEMBLED BOLT-ON INSULATED CASE CIRCUIT BREAKERS WITH SOLID-STATE TRIP MECHANISMS AND MANUAL SPRING CHARGING MECHANISM. BREAKERS SHALL BE UL LISTED FOR APPLICATION AT 100% OF THEIR CONTINUOUS AMPERE RATING.
    - CIRCUIT BREAKERS 1200 AMPERES AND LARGER SHALL BE INSULATED CASE CIRCUIT BREAKERS.
  - ON SERVICE DISCONNECT BREAKERS WHERE PHASE TO GROUND VOLTAGE EXCEEDS 150-VOLTS, THE SOLID STATE TRIP MECHANISM SHALL INCLUDE ADJUSTABLE GROUND FAULT PICK UP AND ADJUSTABLE GROUND FAULT TIME DELAY WITH GROUND FAULT TEST BUTTON;
  - FOR ALL CIRCUIT BREAKERS 1200 AMPERES OR HIGHER, PROVIDE AN ENERGY-REDUCING MAINTENANCE SWITCH WITH LOCAL, LIT STATUS INDICATOR TO ALLOW FOR A REDUCTION FOE THE INSTANTANEOUS PICKUP AND INSTANTANEOUS DELAY SETTINGS. DEVICE SHALL MOUNT IN FACE OF DEAD-FRONT.

**TRANSFORMERS**

- PROVIDE FACTORY-ASSEMBLED, GENERAL-PURPOSE, AIR-COOLED DRY-TYPE DISTRIBUTION TRANSFORMERS AS REQUIRED. PROVIDE WITH COPPER WINDINGS WHERE PRIMARY WINDINGS HAS A MINIMUM OF 4 FULL CAPACITY TAPS AT 2.5 PERCENT, TWO ABOVE AND TWO BELOW FULL RATED VOLTAGE FOR DEENERGIZING TAP-CHARGING OPERATION. INSULATE WITH CLASS 150 INSULATION AND RATE FOR CONTINUOUS OPERATION AT RATED KVLA. LIMIT TRANSFORMER TEMPERATURE RISE TO 115 DEGREES C. SOUND LEVEL NOT TO EXCEED 45DB. PROVIDE 4" HIGH CONCRETE PAD AND BOLT EQUIPMENT TO PAD.

**MOTOR STARTERS**

- PROVIDE FACTORY ASSEMBLED, AC-NON-REVERSING MAGNETIC STARTERS RATED AT 600V WITH THERMAL OVERLOAD PROTECTION IN ALL PHASES. MOUNT HAND-OFF-AUTO SWITCH, RED PILOT LIGHT, AND RESET BUTTON IN FACE OF ENCLOSURE. PROVIDE NEMA ENCLOSURE RATINGS BASED ON LOCATION OF INSTALLATION.

**MOTOR AND CIRCUIT DISCONNECTS**

- PROVIDE HEAVY-DUTY TYPE SAFETY SWITCHES; FUSIBLE OR NON-FUSIBLE AS INDICATED. PROVIDE SWITCHES RATED AT 600 VOLTS, 60 HZ, INCORPORATING QUICK-MAKE, QUICK-BREAK TYPE MECHANISMS. EQUIP WITH OPERATING HANDLE THAT IS CAPABLE OF BEING PADLOCKED IN THE OFF POSITION. PROVIDE NEMA ENCLOSURE RATINGS BASED ON LOCATION OF INSTALLATION.

**SURGE PROTECTIVE DEVICES**

- PROVIDE HIGH ENERGY SURGE PROTECTIVE DEVICES, WITH HIGH FREQUENCY LINE NOISE FILTERING, SUITABLE FOR APPLICATION IN CATEGORY A, B, AND C ENVIRONMENTS. UNIT SHALL BE A COMPLETE PACKAGED UNIT COMPLYING WITH APPLICABLE REQUIREMENTS OF ANSI/IEEE C82 AND UL 1449. PROVIDE SURGE PROTECTIVE DEVICES AT EACH SWITCHBOARD AND/OR PANELBOARD LOCATED IN THE LIFE SAFETY EMERGENCY DISTRIBUTION SYSTEM.

**LIGHTING FIXTURES**

- PROVIDE LIGHTING FIXTURES COMPLETE WITH ALL COMPONENTS FOR EACH SIZE, TYPE, AND RATING INDICATED. THIS INCLUDES, BUT NOT LIMITED TO HOUSING, DRIVER, REFLECTORS, AND WIRING. SIZE FUSES PER BALLAST MANUFACTURER'S RECOMMENDATION. PROVIDE ALL NECESSARY SUPPORTS, BRACKETS, AND MISCELLANEOUS EQUIPMENT FOR MOUNTING OF FIXTURES. SUPPORT ALL GRID MOUNTED FIXTURES FROM THE BUILDING STRUCTURE WITH #12 GA. STEEL WIRE ATTACHED TO EACH CORNER, INDEPENDENT OF THE CEILING SYSTEM. PROVIDE BACKING SUPPORTS. PROVIDE CYPSPUM BOARD PROTECTION AS REQUIRED TO MAINTAIN FIRE RATING OF EACH CEILING IN WHICH FIXTURES ARE INSTALLED. PROVIDE ALL EXTERIOR FIXTURES WITH DAMP OR WET LOCATION LABEL AS REQUIRED BY APPLICATION. PROVIDE CLASS 2 WIRING FOR ALL FIXTURES INDICATED TO HAVE 0-10V DIMMING.

**ELECTRICAL IDENTIFICATION**

- PROVIDE ELECTRICAL IDENTIFICATION PRODUCTS FOR BURIED ELECTRICAL LINES, ARC-FLASH HAZARD LABELS (ANSI Z353.4), SOURCE OF SUPPLY LABELS, AVAILABLE FAULT CURRENT LABELS AND EMERGENCY OPERATING SIGNS TO EQUIPMENT INSTALLED AS PART OF THIS PROJECT.
- PROVIDE NYLON TYPE COVERPLATES THAT MATCH DEVICES. PROVIDE METAL COVERS FOR ALL DEVICES IN UNFINISHED SPACES
- PROVIDE LABELS ON COVERPLATES INDICATING SOURCE OF POWER (I.E. PANEL - CIRCUIT #).

**SECURITY SYSTEMS**

- PROVIDE A COMPLETE RACEWAY SYSTEM INCLUDING BUT NOT LIMITED TO: RACEWAY, OUTLETS, COVERPLATES, BACKBOARDS, GROUNDING, AND MISCELLANEOUS ITEMS AS REQUIRED.
- PROVIDE (1) 3/4" EMT CONDUIT FROM EACH SECURITY DEVICE TO CABLE TRAY OR TERMINAL CABINET (WHICHEVER IS CLOSER). COMPLY WITH NEC AND RECOGNIZED INDUSTRY PRACTICES. PROVIDE NYLON PULL CORD IN ALL INSTALLED RACEWAY.
- PROVIDE (1) #6 BARE COPPER GROUND FROM EACH SECURITY SYSTEM TERMINAL BOARD TO THE SERVICE ENTRANCE GROUND. COIL SIX FEET OF CONDUCTOR AT EACH TERMINAL BOARD.

**TELECOMMUNICATIONS**

- PROVIDE A COMPLETE RACEWAY SYSTEM INCLUDING BUT NOT LIMITED TO: RACEWAY, OUTLETS, COVERPLATES, BACKBOARDS, GROUNDING, AND MISCELLANEOUS ITEMS AS REQUIRED.
- PROVIDE (1) 3/4" EMT CONDUIT FROM EACH TELEPHONE AND DATA DEVICE TO CABLE TRAY OR TELECOM RACK (WHICHEVER IS CLOSER). COMPLY WITH NEC, BICSI AND RECOGNIZED INDUSTRY PRACTICES. PROVIDE NYLON PULL CORD IN ALL INSTALLED RACEWAY.
- PROVIDE (1) #6 BARE COPPER GROUND FROM EACH TELEPHONE/DATA SYSTEM TERMINAL BOARD TO THE SERVICE ENTRANCE GROUND. COIL SIX FEET OF CONDUCTOR AT EACH TERMINAL BOARD.

**FIRE ALARM AND DETECTIONS SYSTEMS**

- PROVIDE AN ADDRESSABLE, ELECTRICALLY SUPERVISED FIRE ALARM SYSTEM WITH ALL APPLICABLE PROVISIONS OF THE CURRENT NFPA 72, NATIONAL FIRE ALARM CODE, IFC INTERNATIONAL FIRE CODE AND SHALL MEET ALL REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION. PROVIDE A MINIMUM OF #14 AWG COPPER WIRING IN 3/4" CONDUIT. FIRE ALARM MC IS NOT ALLOWED.

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Project  
**24-001**  
 NORTH PLANT ADMINISTRATION OFFICE BUILDING  
 SOUTH DAVIS SEWER DISTRICT  
 1800 WEST 1200 NORTH  
 WEST BOUNTIFUL, UTAH

Date	Revisions
03/05/2024	09E003

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ELECTRICAL SPECIFICATIONS

SCOPE OF WORK:

- THE FOLLOWING ARE PROJECT SPECIFICATIONS THAT ALL CABLING SYSTEMS MUST ADHERE TO... IN ALL INSTANCES WHERE STANDARDS ARE CITED, IT IS ASSUMED INSTALLER WILL HAVE FAMILIARITY WITH AND IMPLICITLY FOLLOW THE RECOMMENDATIONS OF THE MOST CURRENT VERSION OF THE STANDARD REFERENCED AT THE TIME OF INSTALLATION... THE EXTENT OF TELEPHONE/DATA SYSTEM WORK IS INDICATED BY DRAWINGS AND IS HEREBY DEFINED TO INCLUDE, BUT NOT BE LIMITED TO RACKS, CABINETS, PATCH PANELS, CABLES, RACEWAY, OUTLET BOXES, DEVICE PLATES, BACKBOARD, AND GROUNDING...

CONTRACTOR QUALIFICATIONS

- THE CONTRACTOR SHALL BE FULLY CONVERSANT AND CAPABLE IN THE CABLING OF LOW VOLTAGE APPLICATIONS SUCH AS, BUT NOT LIMITED TO VOICE AND DATA NETWORK SYSTEMS... MUST HAVE AT A MINIMUM (1) RCDD CERTIFIED INDIVIDUAL EMPLOYED FULL TIME AT THE TIME OF BIDDING AND THROUGHOUT ENTIRE PROJECT... BICSI CERTIFIED INSTALLERS OR EQUIVALENT...

APPLICABLE CODES AND STANDARDS

- CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE PORTIONS OF THE NEC CODE AS TO TYPE OF PRODUCTS USED AND INSTALLATION OF COMPONENTS... IN ADDITION INSTALLATION SHALL ADHERE TO THE FOLLOWING STANDARDS: ANSITIA-568-C.0 - GENERAL TELECOMMUNICATIONS CABLING FOR CUSTOMER PREMISES... ANSITIA-568-C.1 - COMMERCIAL BUILDING TELECOMMUNICATIONS CABLING STANDARDS... ANSITIA-568-C.2 - BANCALANCE TWISTED PAIR COMMUNICATIONS AND COMPONENTS STANDARDS...

ACCEPTABLE MANUFACTURERS:

- GENERAL: UNAPPROVED PRODUCT SUBSTITUTIONS ARE NOT ALLOWED. ALL UNAPPROVED SUBSTITUTIONS INSTALLED SHALL BE REMOVED BY CONTRACTOR WHO SHALL ASSUME ALL COSTS FOR REMOVAL AND REPLACEMENT WITH APPROVED PRODUCTS... APPROVED MANUFACTURERS: COPPER CABLING / CONNECTIVITY APPROVED MANUFACTURERS: PANDUIT, GENERAL CABLE, BELDEN

SUBMITTALS:

- CONTRACTOR SHALL FOLLOW THE SUBMITTAL REQUIREMENTS AS OUTLINED IN THE ELECTRICAL SPECIFICATIONS AND PROVIDE THE FOLLOWING: PROVIDE SUBMITTAL FOR NON-CONTINUOUS CABLE SUPPORT DEVICES... PROVIDE COLOR SAMPLES OF ALL AVAILABLE STANDARD COLOR FACEPLATES TO ARCHITECT... PROVIDE PROPOSED LABELING SCHEME FOR APPROVAL BY OWNER/ENGINEER...

GENERAL PRODUCT REQUIREMENTS:

- ALL PRODUCTS SHALL BE IN NEW CONDITION AND UL LISTED... PROVIDE COMPLETE RACEWAY, OUTLET BOXES AND MISCELLANEOUS ITEMS. ALL CONDUIT UTILIZED SHALL BE EMT GRADE... COMMUNICATION GROUNDING AND BONDING SHALL BE CONSTRUCTED AND INSTALLED TO MEET OR EXCEED THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC), IEC 1000-5-2 AND ANSI/J-STD-607-A THROUGHOUT THE ENTIRE GROUNDING SYSTEM...

ENTRANCE FACILITY (EF) / EQUIPMENT ROOM (ER) / TELECOMMUNICATIONS ROOM (TR)

- GENERAL: CONTRACTOR SHALL UTILIZE THE CURRENT INFRASTRUCTURE LOCATED IN THE BASEMENT OF THE LIBRARY.

CABLING DISTRIBUTION SYSTEMS AND MISCELLANEOUS EQUIPMENT

- GENERAL: PROVIDE PLENUM RATED CABLE, CABLING MUST BE APPROPRIATE FOR THE ENVIRONMENT THAT IT IS INSTALLED IN... HORIZONTAL CABLING DISTRIBUTION SYSTEM - BALANCED TWISTED PAIR: PROVIDE AND INSTALL APPROPRIATE NUMBER OF CATEGORY 6 HORIZONTAL CABLES, PATCH CABLES, WORK AREA CABLES, FOR ALL TERMINATED DATA DROPS, BETWEEN SWITCHES, ETC. SO THAT BUILDING-WIDE NETWORKING WILL BE OPERATIONAL ONCE ALL INSTALLATION IS COMPLETE... HORIZONTAL CABLING: PROVIDE CAT 6 UTP, 4-PAIR 100Ω BALANCED TWISTED PAIR CABLE TO ALL LOCATIONS SHOWN ON PLANS... PROVIDE A MINIMUM OF (2) CABLES, UNLESS OTHERWISE NOTED, TO EACH LOCATION SHOWN ON PLANS...

GENERAL INSTALLATION REQUIREMENTS:

- GENERAL: PATHWAY REQUIREMENTS: ALL PATHWAYS SHALL BE DESIGNED, CONSTRUCTED, GROUNDED AND INSTALLED IN ACCORDANCE WITH ALL RECOMMENDATIONS DELINEATED WITHIN TIA 569-B AND STANDARD TIA 942... PRIOR TO PLACING ANY CABLE PATHWAYS OR CABLE, THE CONTRACTOR SHALL SURVEY THE SITE TO DETERMINE JOB CONDITIONS WILL NOT IMPOSE ANY OBSTRUCTIONS THAT WOULD INTERFERE WITH THE SAFE AND SATISFACTORY PLACEMENT OF THE CABLES...

- PAINT ALL ELECTRICAL BOXES AND THEIR COVERS FOR THE TELEPHONE AND DATA SYSTEM BLACK... CONDUITS: PROVIDE A QUANTITY OF ONE 1" CONDUIT FROM EACH TELECOMMUNICATIONS BOX TO ACCESSIBLE CEILING SPACE... ACHIEVE THE BEST DIRECT ROUTE PARALLEL WITH BUILDING LINES WITH NO SINGLE BEND GREATER THAN 90 DEGREES OR AN AGGREGATE OF BENDS IN EXCESS OF 180 DEGREES BETWEEN PULL POINTS OR PULL BOXES... OPEN TOP CABLE SUPPORT REQUIREMENTS: PROVIDE WIDE SURFACE AREA OPEN-TOP CABLE SUPPORTS SPACED 5 FEET APART AT THE MAXIMUM TO ADEQUATELY SUPPORT AND DISTRIBUTE CABLE'S WEIGHT...

- CABLING SYSTEM: FOLLOW T568B SCHEME FOR COPPER CABLING TERMINATIONS... PROVIDE A MINIMUM OF ONE BALANCED TWISTED PAIR CABLE TO EACH VOICE OUTLET AND ONE BALANCED TWISTED PAIR CABLE TO EACH DATA OUTLET... CABLES SHALL NOT BE ATTACHED TO CEILING GRID SEISMIC SUPPORT WIRES OR LIGHTING FIXTURE SEISMIC SUPPORT WIRES... ELECTROMAGNETIC COMPATIBILITY: WHERE TELECOMMUNICATION CABLE IS INSTALLED IN GROUND, METALLIC CONDUIT NEAR POWER CABLES, THE POWER CABLES SHALL BE KEPT PHYSICALLY SEPARATED FROM TELECOMMUNICATIONS CABLES...

GENERAL LABELING REQUIREMENTS:

- THE CONTRACTOR SHALL DEVELOP AND SUBMIT FOR APPROVAL A LABELING SYSTEM FOR THE CABLE INSTALLATION... ALL TELECOMMUNICATIONS SPACES, PATHWAYS, CABLES, CONNECTING HARDWARE, EQUIPMENT, RACKS, PATCH PANELS, OUTLET/CONNECTORS, AND GROUNDING SYSTEM SHALL BE LABELED IN ACCORDANCE WITH TIA/EIA 606-A... ALL LABELS SHALL MEET UL 969 REQUIREMENTS FOR LEGIBILITY, DEFACEMENT AND ADHESION REQUIREMENTS...

TELECOMMUNICATION PATHWAY LABELING REQUIREMENTS:

- IDENTIFY EACH DEDICATED PATHWAY (INCLUDING INNER DUCTS) FOR THE VOICE AND DATA SYSTEM... LABEL PATHWAYS AT REGULAR INTERVALS AND WHEREVER THEY ARE ACCESSIBLE.

TELECOMMUNICATION CABLE LABELING REQUIREMENTS:

- IDENTIFY CABLES AT EACH END WITH A PERMANENT LABEL OR PHYSICAL/ELECTRONIC TAG... THE SAME ALPHANUMERIC IDENTIFIERS SHOULD BE USED AT BOTH ENDS OF THE CABLE... IDENTIFY CABLES AT REGULAR INTERVALS THROUGHOUT AND WHEREVER THEY ARE ACCESSIBLE...

CONNECTING HARDWARE LABELING REQUIREMENTS:

- IDENTIFY CONNECTING HARDWARE ITEMS (TERMINATION BLOCKS, CROSS-CONNECTS, RACKS, CABINETS, PATCH PANELS, TELECOMMUNICATIONS OUTLET/CONNECTORS, PORTS) USING ALPHANUMERIC IDENTIFICATION SUCH AS THE FOLLOWING THREE-LEVEL SCHEME... FIRST LEVEL - TERMINATION FIELD OR PATCH PANEL... SECOND LEVEL - TERMINAL BLOCK WITHIN A GIVEN FIELD OR PATCH PANEL... THIRD LEVEL - DEFINES THE INDIVIDUAL POSITION WITHIN A GIVEN TERMINAL BLOCK OR PATCH PANEL.

TESTING:

- GENERAL: PROVIDE TESTING WITHIN 10 DAYS OF COMPLETION FOR ALL COPPER AND FIBER OPTIC CABLE ACCORDING TO TIA/EIA STANDARDS... SUBMIT COPY OF CURRENT CALIBRATION OF ALL TESTING EQUIPMENT... CORRECT ANY MALFUNCTIONS. CONTRACTOR SHALL RE-TERMINATE/REPLACE ANY CABLE, CONNECTION, OR EQUIPMENT FOUND TO BE DEFECTIVE OR NON-COMPLIANT WITH THESE SPECIFICATIONS AND REFERENCED STANDARDS...

COPPER CABLE

- UTILIZE LEVEL IIIE TESTER TO TEST ALL EQUIPMENT AND EACH OUTLET, HORIZONTAL CABLE, TERMINATION BLOCK, PATCH CORDS, ETC. TO VERIFY COMPLIANCE WITH REQUIREMENTS... WIRE MAP (PIN TO PIN CONNECTIVITY): LENGTH, INSERTION LOSS, NEAR END CROSSTALK (NEXT), ATTENUATION TO CROSSTALK RATIO FAR END (ACRF), RETURN LOSS, PROPAGATION DELAY, DELAY SKEW, DC LOOP RESISTANCE, DC RESISTANCE UNBALANCE, POWER SUM NEAR-END CROSSTALK (PS-NEXT), ATTENUATION TO CROSSTALK RATIO NEAR-END (ACR-N), POWER SUM ATTENUATION TO CROSSTALK RATIO NEAR-END (PS-ACR-N), ATTENUATION TO CROSSTALK RATIO FAR-END (ACR-F), POWER SUM ATTENUATION TO CROSSTALK RATIO FAR-END (PS-ACR-F), TRANSVERSE CONVERSION LOSS (TCL), EQUAL LEVEL TRANSVERSE CONVERSION LOSS (ELTCL)... OWNER RESERVES THE RIGHT TO HIRE AN INDEPENDENT TESTING COMPANY TO SPOT CHECK THE TEST RESULTS...

WARRANTY:

- REGISTER INSTALLATION WITH CABLE/CONNECTIVITY MANUFACTURER... PROVIDE AND SUBMIT ALL TEST RESULTS TO OWNER, ENGINEER, AND MANUFACTURER AND MEET ALL OTHER MANUFACTURER REQUIREMENTS IN ORDER TO PROVIDE MINIMUM 20 YEAR EXTENDED PRODUCT LINK WARRANTY FOR COMPLETE CABLING/CONNECTIVITY INSTALLATION...

OPERATING AND MAINTENANCE MANUALS:

- OPERATING AND MAINTENANCE MANUALS SHALL BE SUBMITTED PRIOR TO TESTING OF THE SYSTEM... ENGINEER AND DELIVERED TO THE OWNER, MANUALS SHALL INCLUDE ALL SERVICE, INSTALLATION, PROGRAMMING, AND WARRANTY, INCLUDING TEST RESULTS FOR EACH CABLE.

RECORD DRAWINGS:

- PROVIDE A COMPLETE SET OF "AS BUILT" DRAWINGS IN PAPER AND ELECTRONIC (DWG AND PDF) FORMATS SHOWING CABINETS, RACKS, PATCH PANELS, WIRING, SPECIFIC INTERCONNECTIONS BETWEEN ALL EQUIPMENT AND INTERNAL WIRING OF EQUIPMENT WITHIN 30 WORKING DAYS OF COMPLETION...

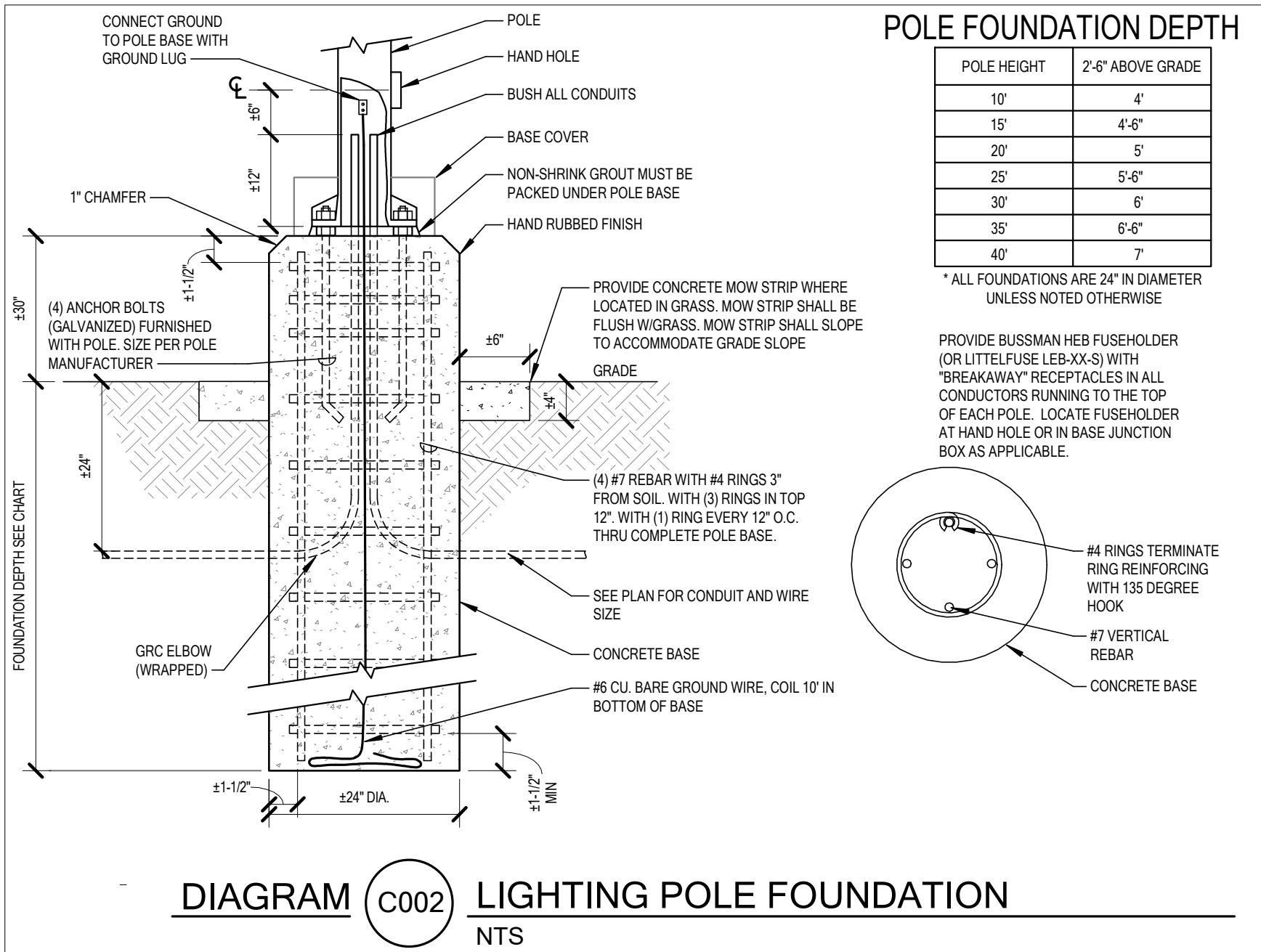
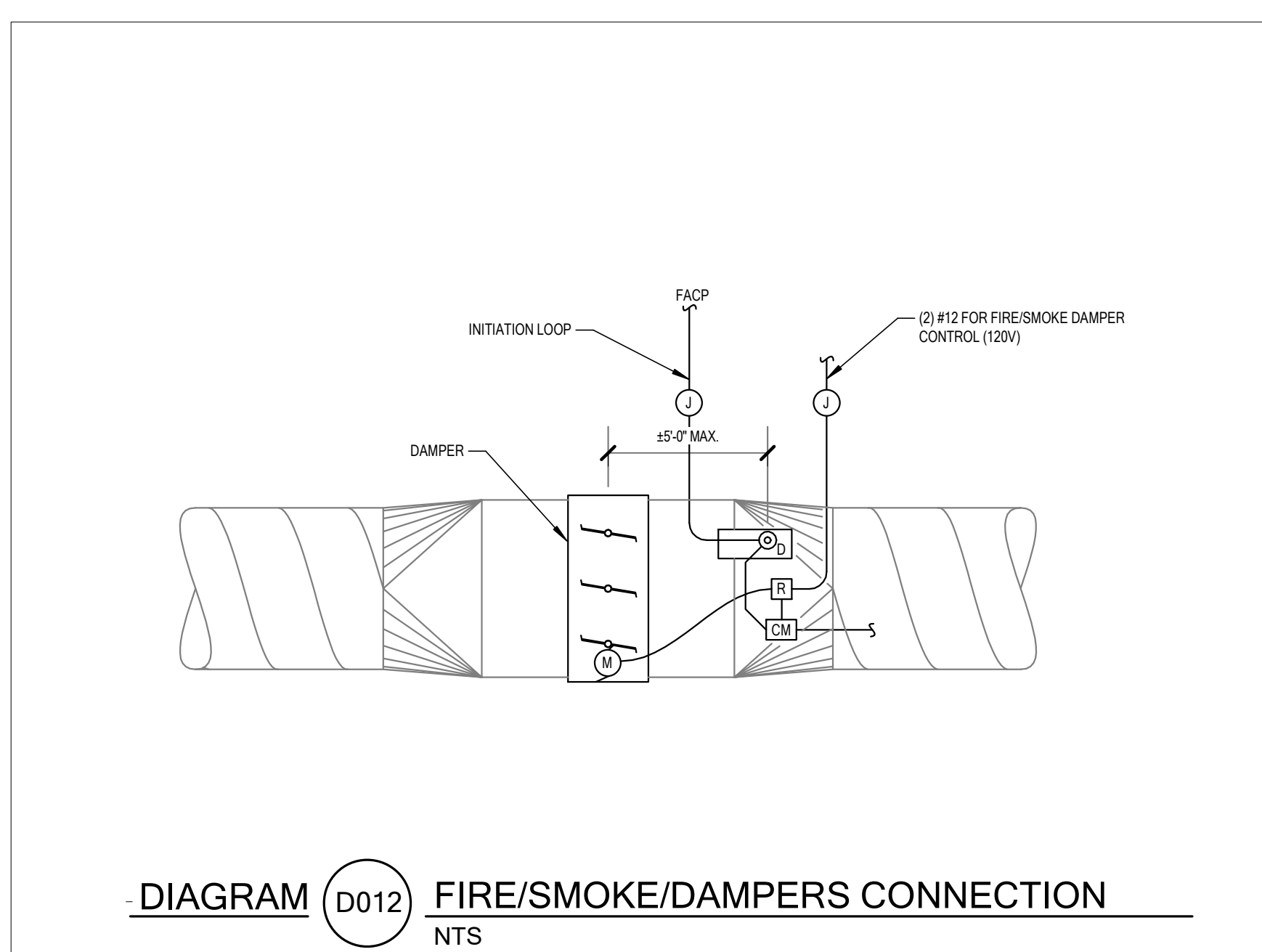
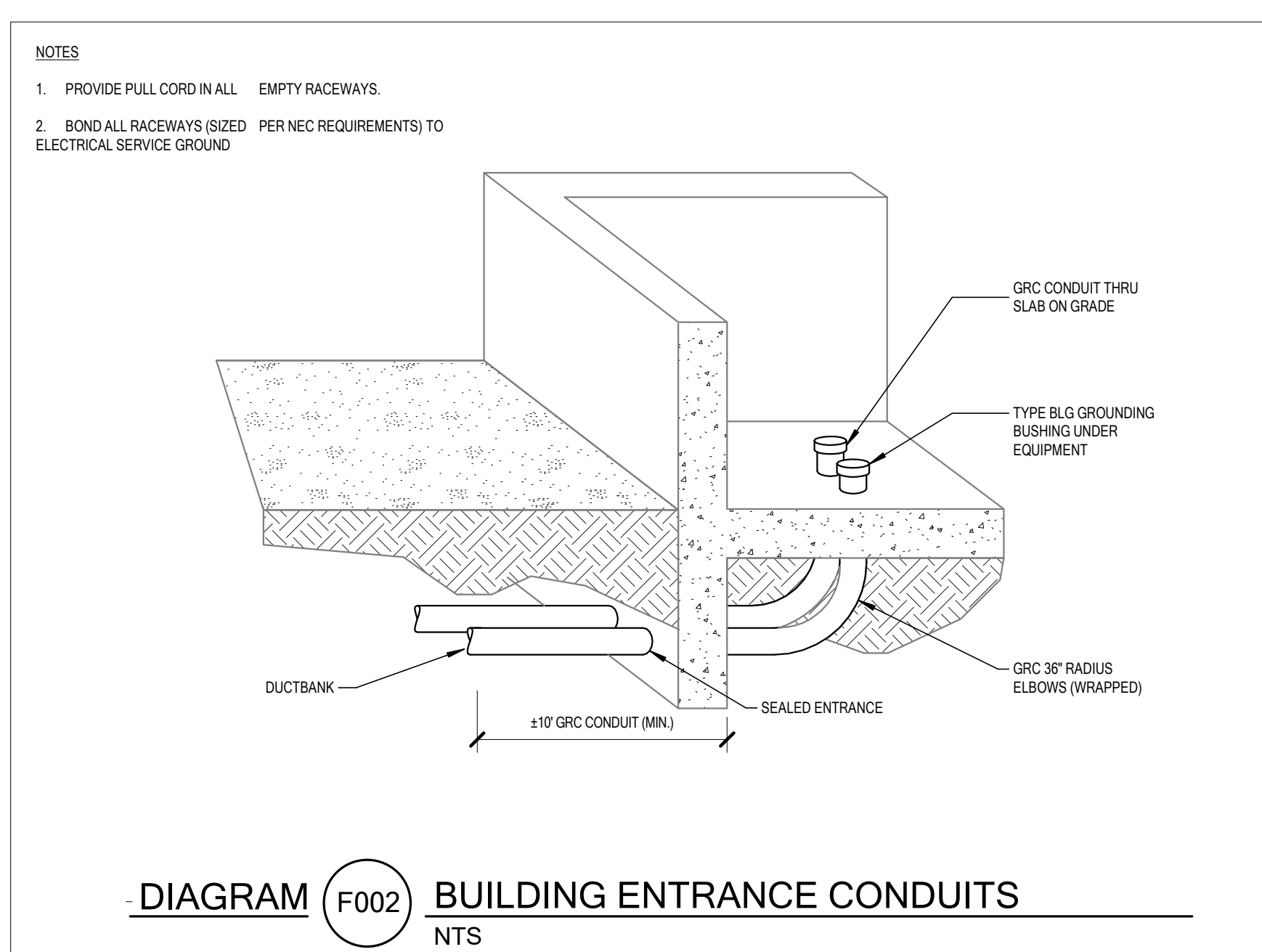
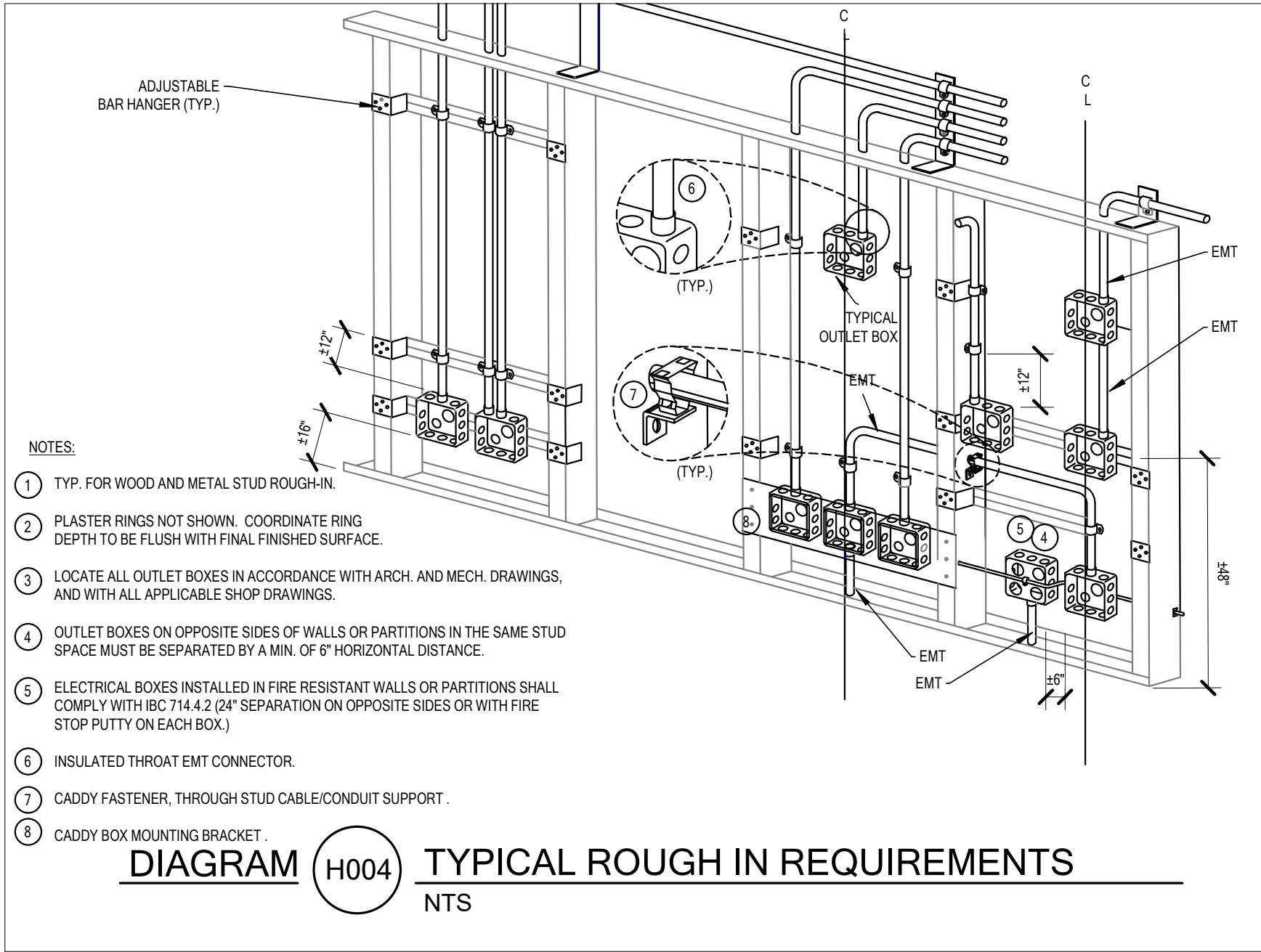
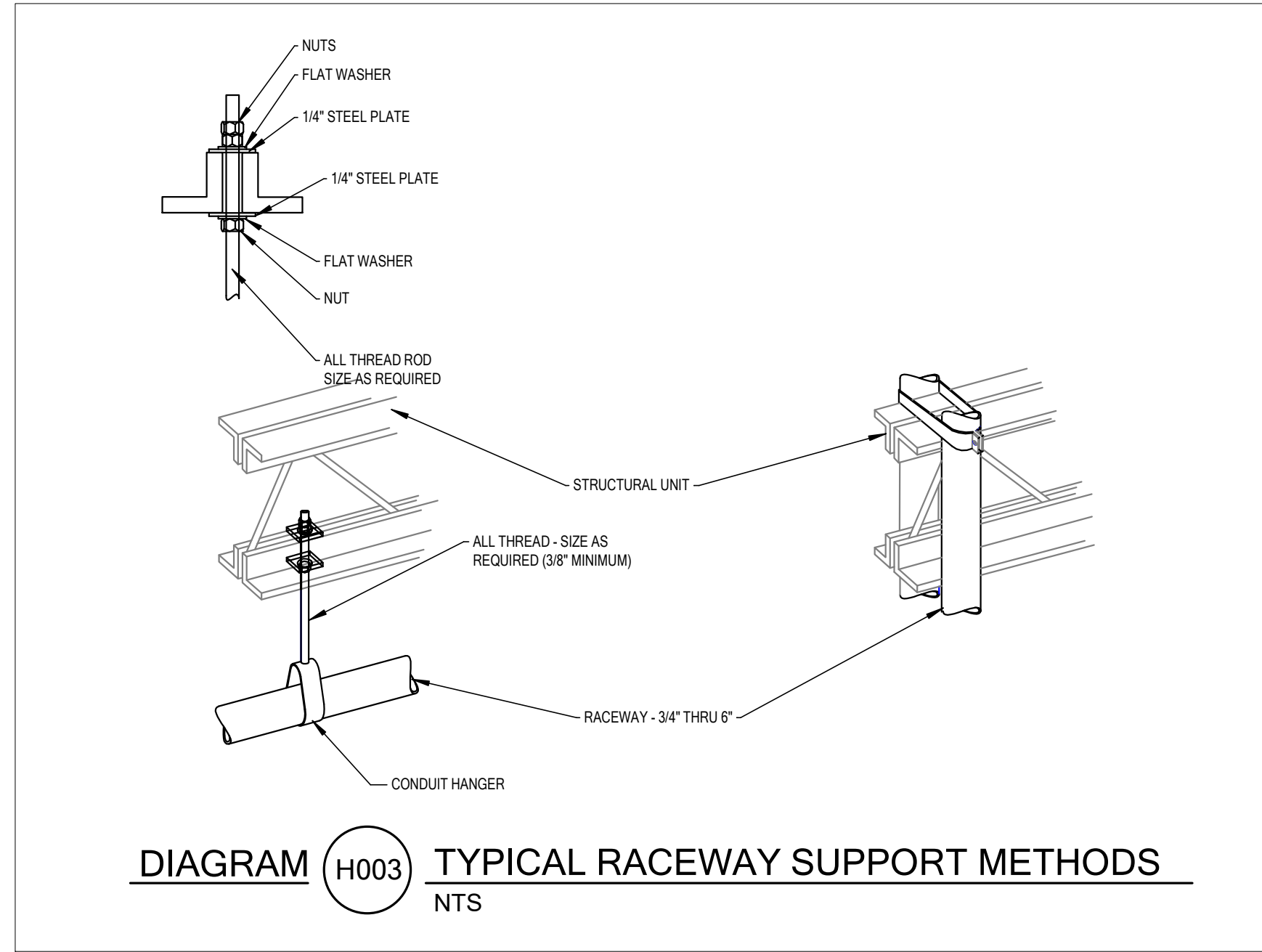
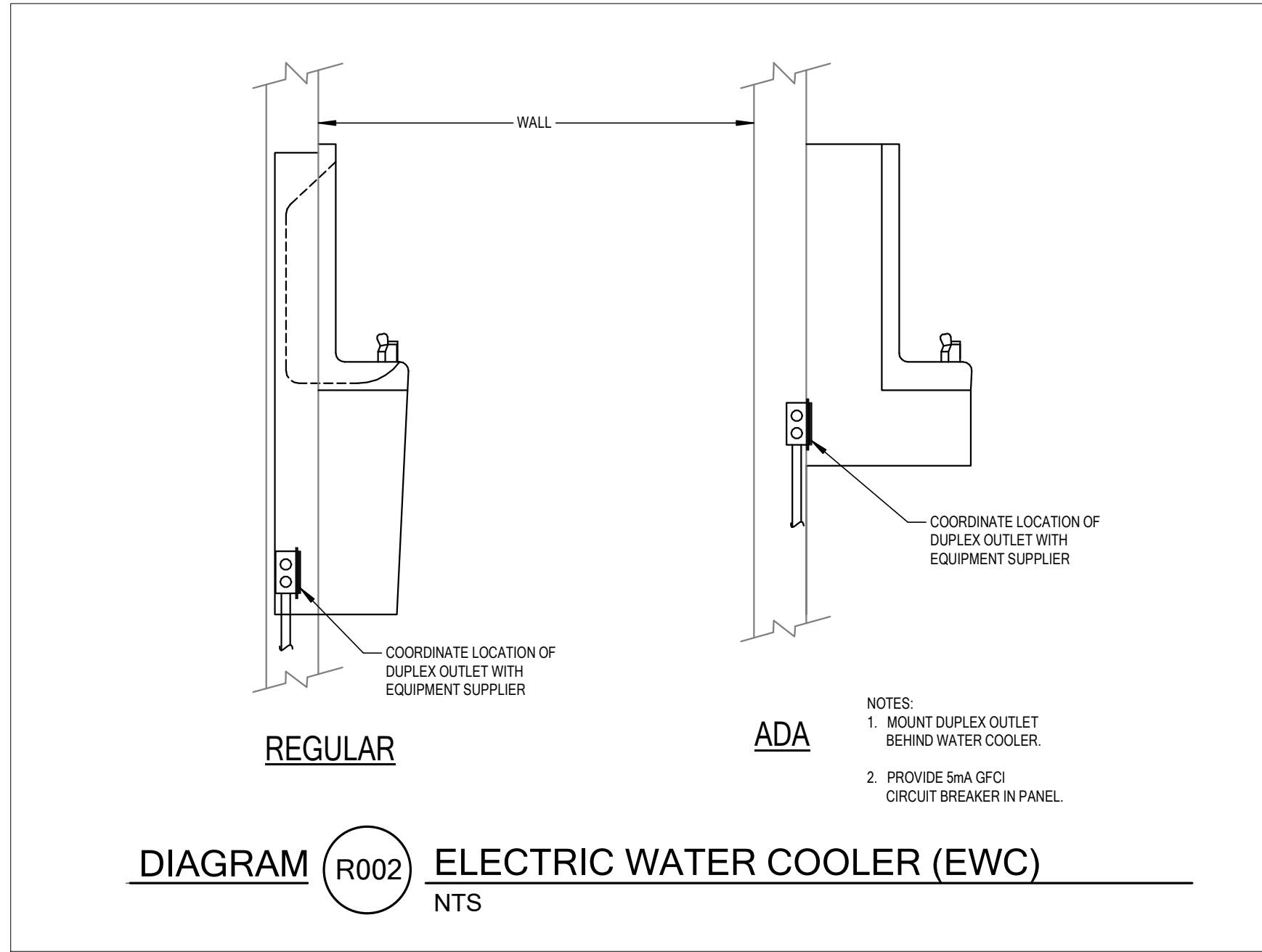
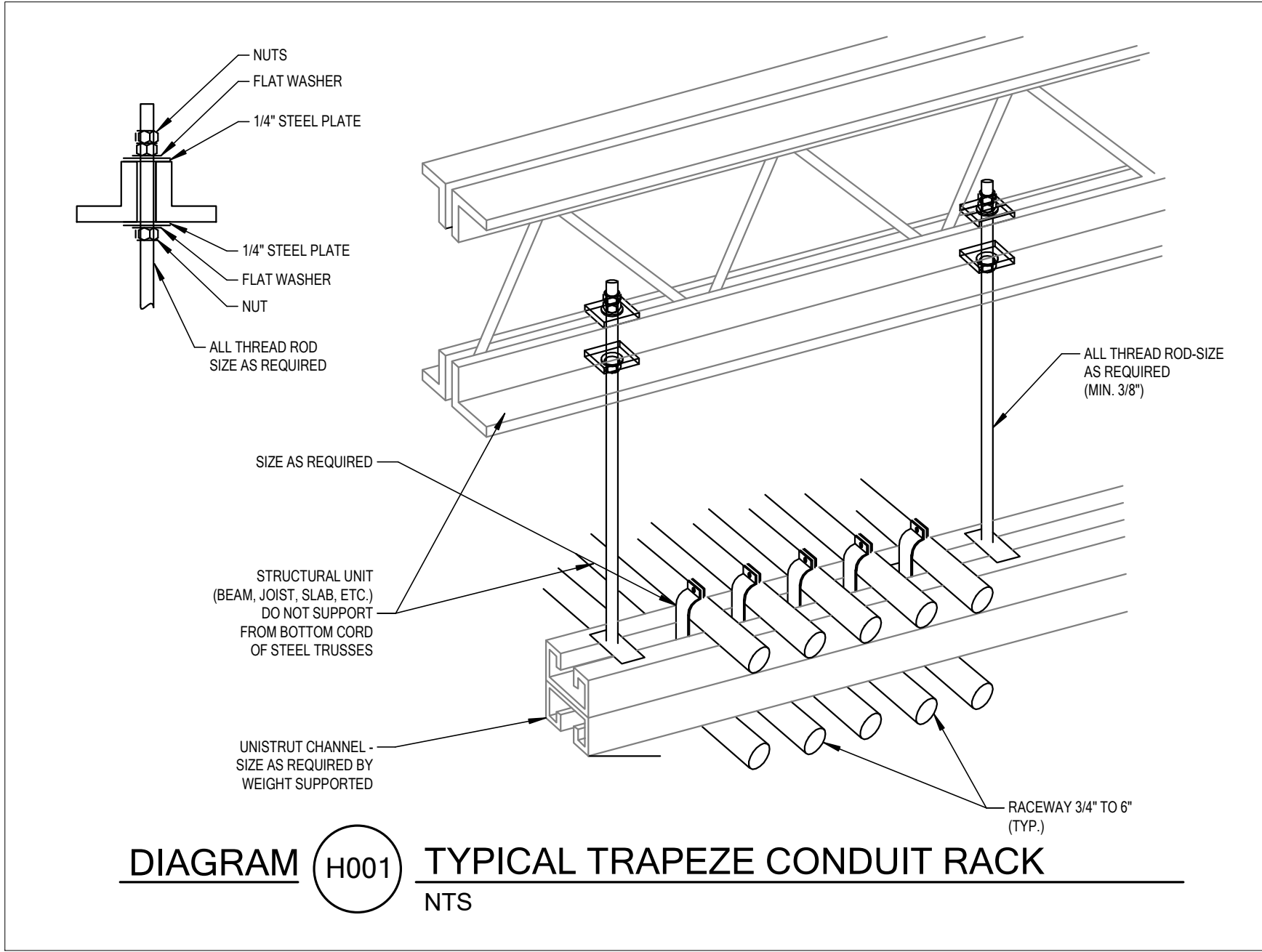
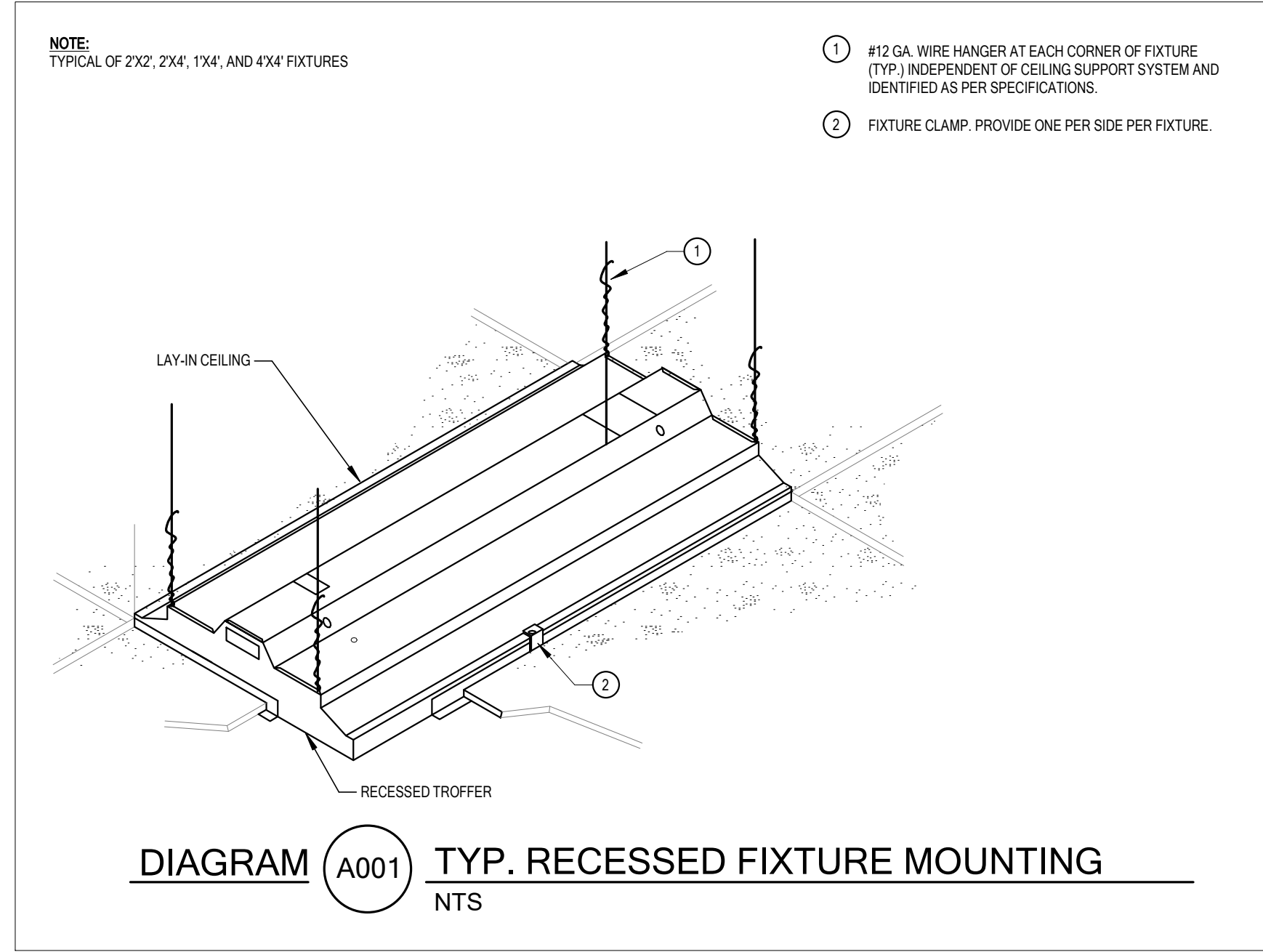
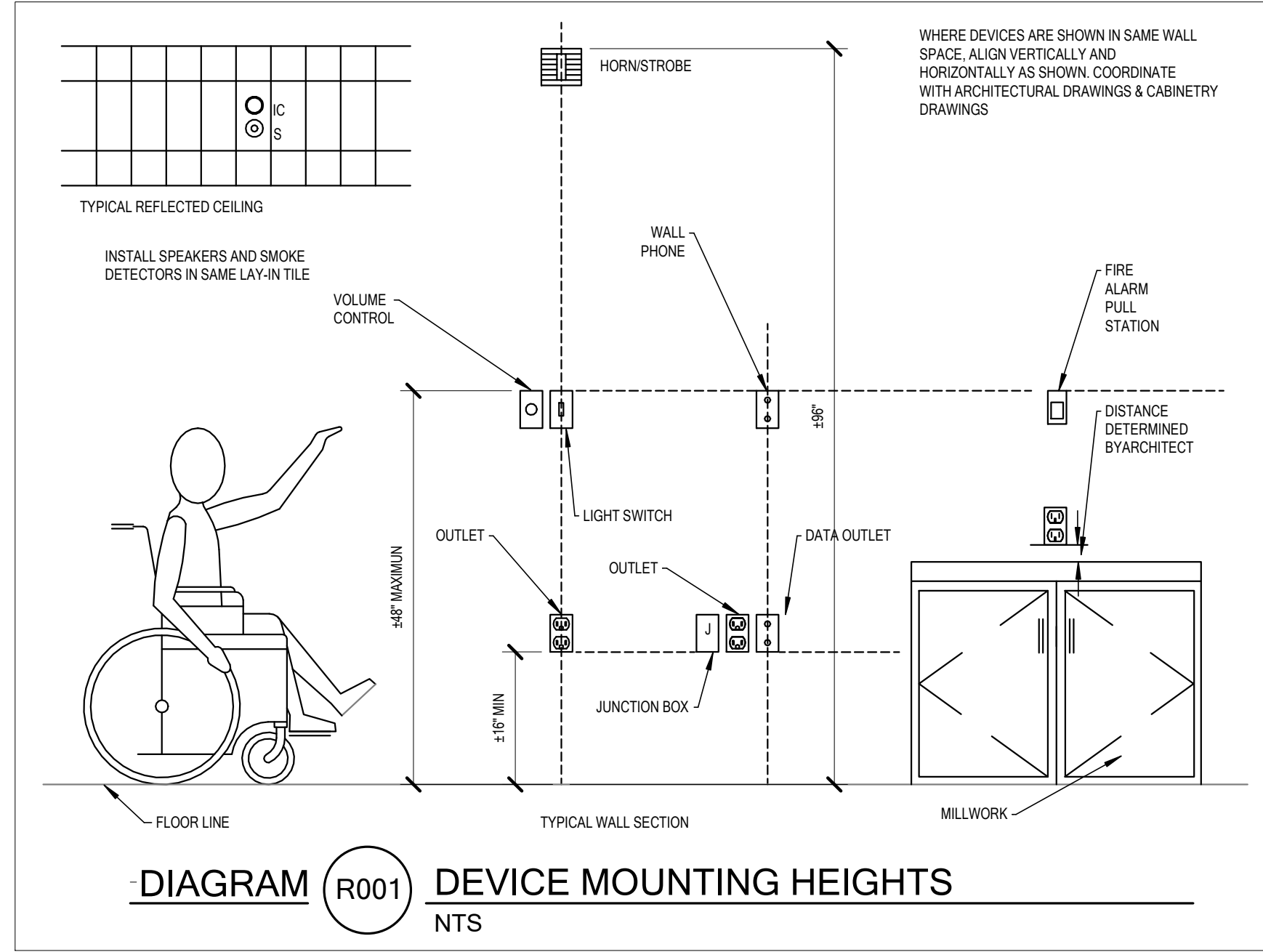
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NORTH PLANT ADMINISTRATION OFFICE BUILDING SOUTH DAVIS SEWER DISTRICT 1800 WEST 1200 NORTH WEST BOUNTIFUL, UTAH

Project 24-001 Date Revisions 03/05/2024 09E004

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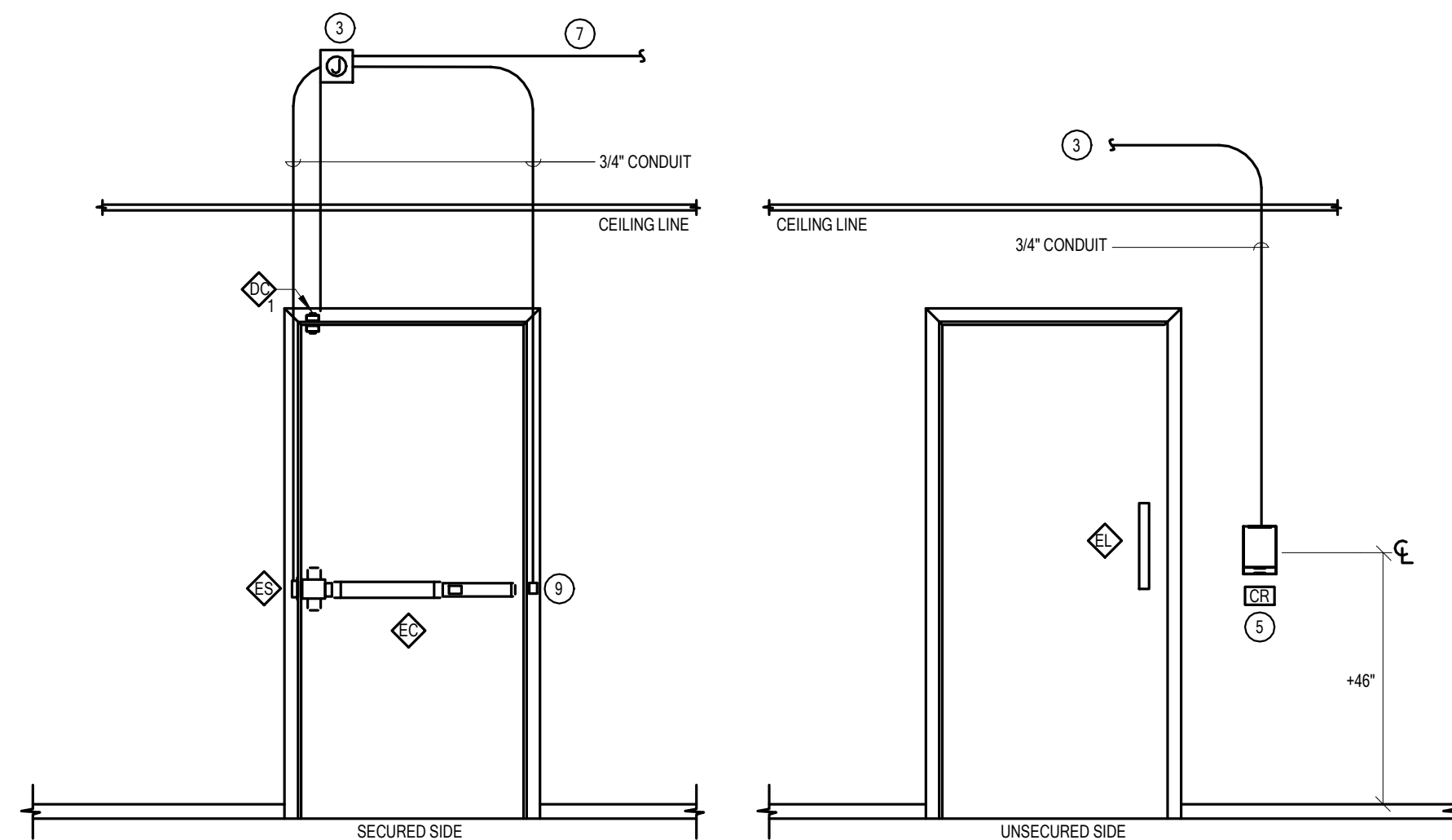




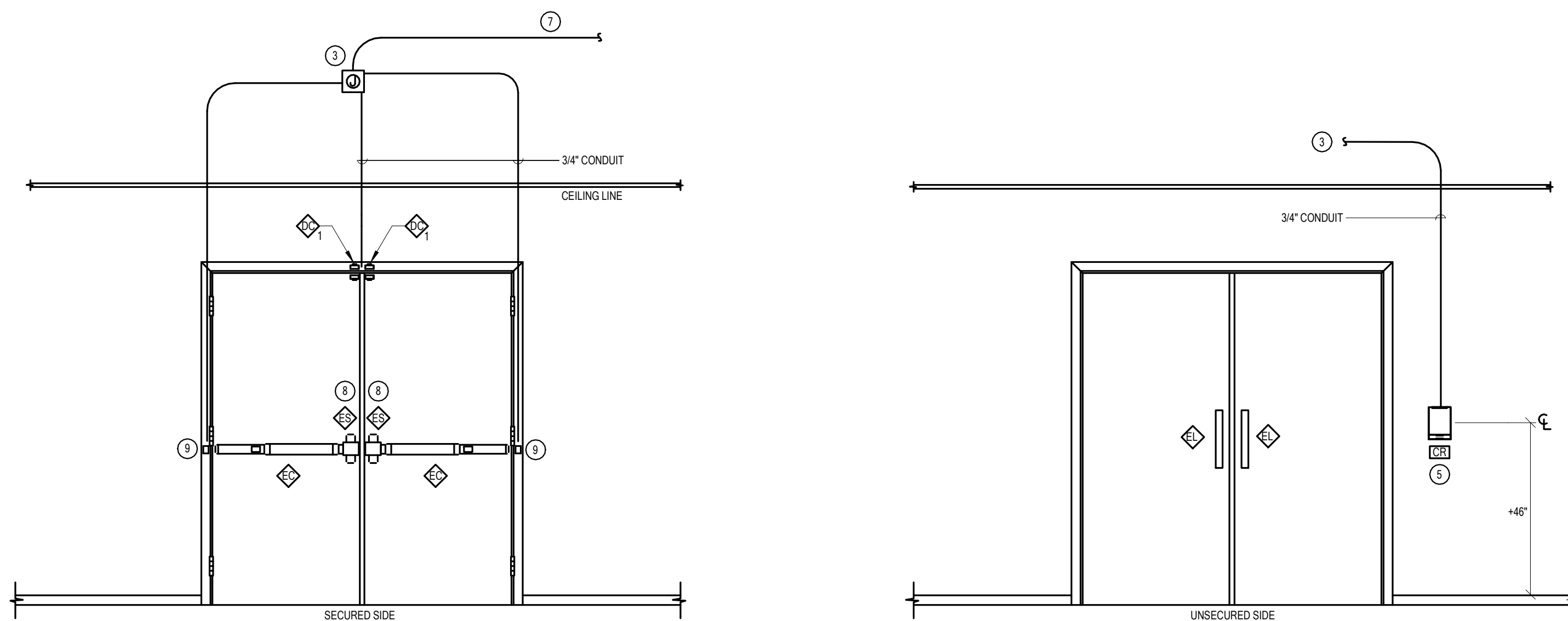
**DIAGRAM KEYNOTES:**

1. MOUNT ACCESS CONTROL DOOR CONTACT & INTRUSION DETECTION DOOR CONTACT 3-6" AWAY FROM LATCHING SIDE OF DOOR.
2. REFER TO DIV 8 SPECIFICATIONS FOR ADA EQUIPMENT TYPES, AND POWER SHEET PLANS FOR DEVICE LOCATIONS. PROVIDE 3/4" CONDUIT FROM ADA TO 4SQ J-BOX WITH COVER LOCATED IN ACCESSIBLE CEILING SPACE ON SECURE SIDE OF DOOR.
3. PROVIDE MANUFACTURER SUGGESTED J-BOX WITH 3/4" CONDUIT FROM ELECTRIFIED DOOR HARDWARE EQUIPMENT AND ANY OTHER INSTALLED END DEVICES TO 4SQ J-BOX W/ COVER LOCATED IN ACCESSIBLE CEILING SPACE ON SECURE SIDE OF DOOR.
4. PROVIDE HORIZONTAL SINGLE GANG J-BOX WITH 3/4" CONDUIT FOR REQUEST TO EXIT MOTION.
5. PROVIDE 4SQ J-BOX WITH VERTICAL SINGLE GANG MUD RING AND 3/4" CONDUIT FOR STANDARD SIZE CREDENTIAL CARD READER.
6. ROUTE DEVICE CABLING THROUGH DOOR FRAME OR MULLIONS. MOUNT DEVICES DIRECTLY TO THE DOOR FRAME OR MULLION WITHOUT J-BOX.
7. PROVIDE SPECIFIED J-HOOKS OR CONDUIT.
8. PROVIDE EXTERIOR CABLING QUICK-DISCONNECT AT THE TOP OF DOOR FRAME FOR ELECTRIC STRIKE(S) ON REMOVABLE MULLIONS.
9. ELECTRIC POWER TRANSFER HING / ELECTRIC HINGE / ELECTRIC POWER TRANSFER LOOP (SEE DIV 8 SPEC).

**NOTE:** DEVICES SHOWN ON THESE DIAGRAMS ARE NOT TO SCALE AND ANY/ALL MAY OR MAY NOT BE REQUIRED. DIAGRAM REPRESENTS TYPICAL ROUGH-IN AND DEVICE LOCATIONS. CONTRACTOR MUST REFER TO DIV. 8 SPECIFICATIONS FOR ELECTRIFIED DOOR EQUIPMENT TYPES AND THE SECURITY DRAWINGS FOR ACCESS CONTROL DEVICE LOCATIONS.

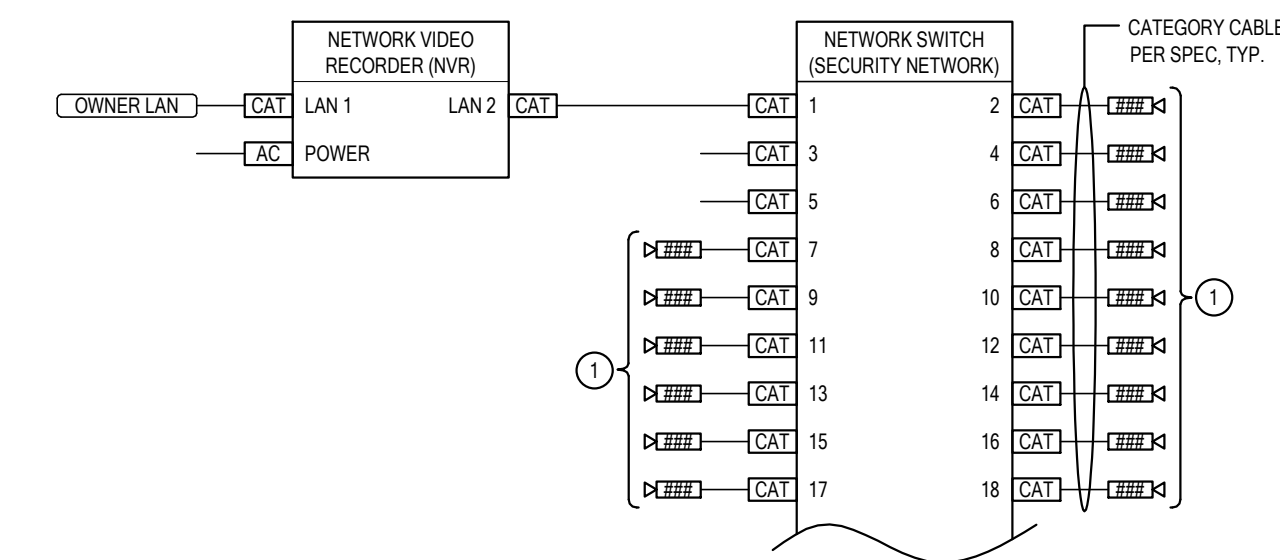


**DIAGRAM EY101**  
TYPICAL ACCESS CONTROL & ELECTRIFIED DOOR HARDWARE DIAGRAMS  
NTS



**DIAGRAM NOTES:**

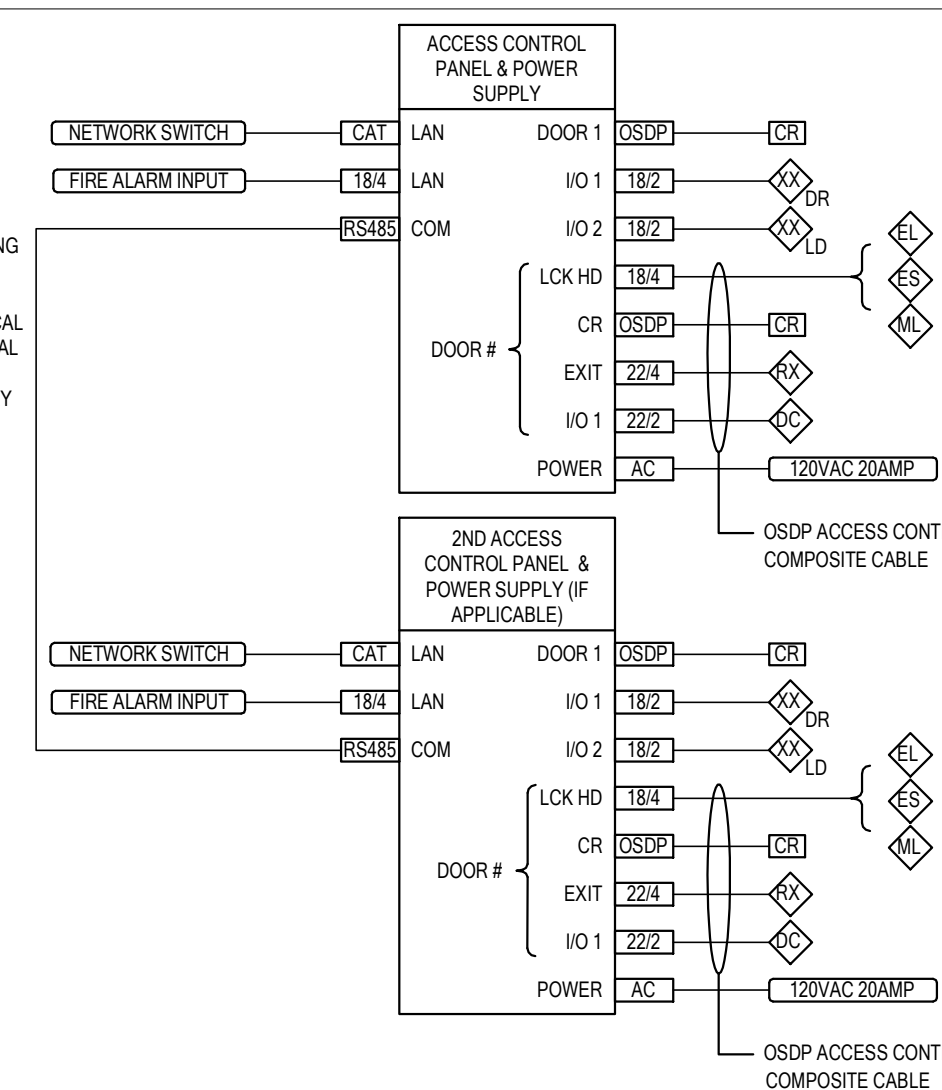
1. CAMERAS SHOWN DIAGRAMMATICALLY ONLY.
2. REFER TO THE SECURITY PLANS FOR SURVEILLANCE CAMERA LOCATIONS.



**DIAGRAM EY001**  
TYPICAL VIDEO SURVEILLANCE SYSTEM - ONE LINE DIAGRAM  
NTS

**DIAGRAM NOTE:**

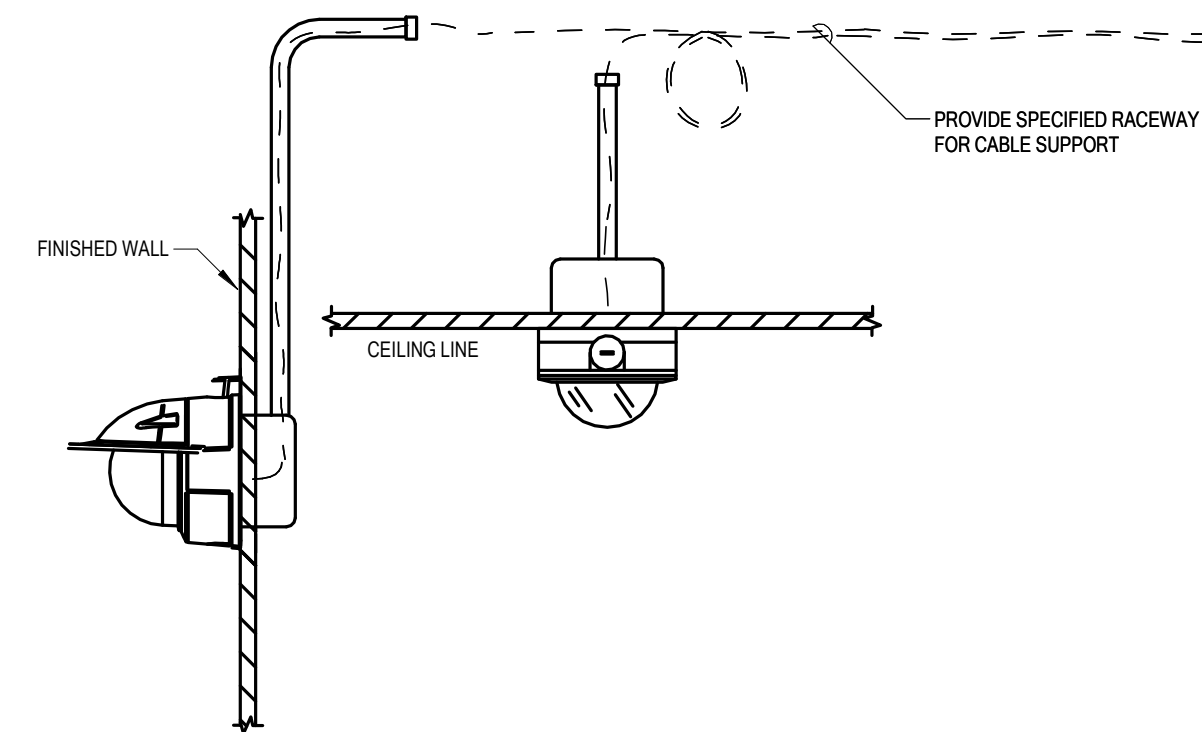
1. DEVICES SHOWN DIAGRAMMATICALLY ONLY.
2. FROM THE ACCESS CONTROL HEAD-END PANEL(S) PROVIDE THESE CONDUITS:  
  - 2" CONDUIT(S) UP TO ACCESSIBLE CEILING SPACE FOR THE ACCESS CONTROL CABLING.
  - 3/4" CONDUIT WITH SPECIFIED ELECTRICAL CABLE OVER TO DESIGNATED ELECTRICAL PANEL FOR POWER CIRCUIT.
  - 3/4" CONDUIT WITH SPECIFIED CATEGORY CABLE TO CABLE TRAY AND INTO ASSIGNED TELECOMMUNICATIONS EQUIPMENT RACK.
  - CONDUITS FILL RATIOS ARE NOT TO EXCEED 40%.



**DIAGRAM EY002**  
TYPICAL ACCESS CONTROL - ONE LINE DIAGRAM  
NTS

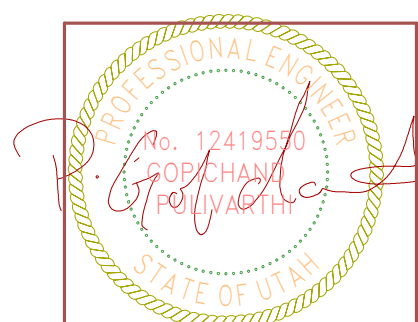
**DIAGRAM NOTE:**

1. PROVIDE A 3/4" CONDUIT FROM MANUFACTURER'S SUGGESTED J-BOX TO ACCESSIBLE CEILING SPACE. PROVIDE SPECIFIED CABLE RACEWAY TO ROUTE CABLING TO DESIGNATED EQUIPMENT RACK WITH CABLE SERVICE LOOPS ON EACH END.



**DIAGRAM EY401**  
TYPICAL SURVEILLANCE CAMERAS MOUNTING  
NTS

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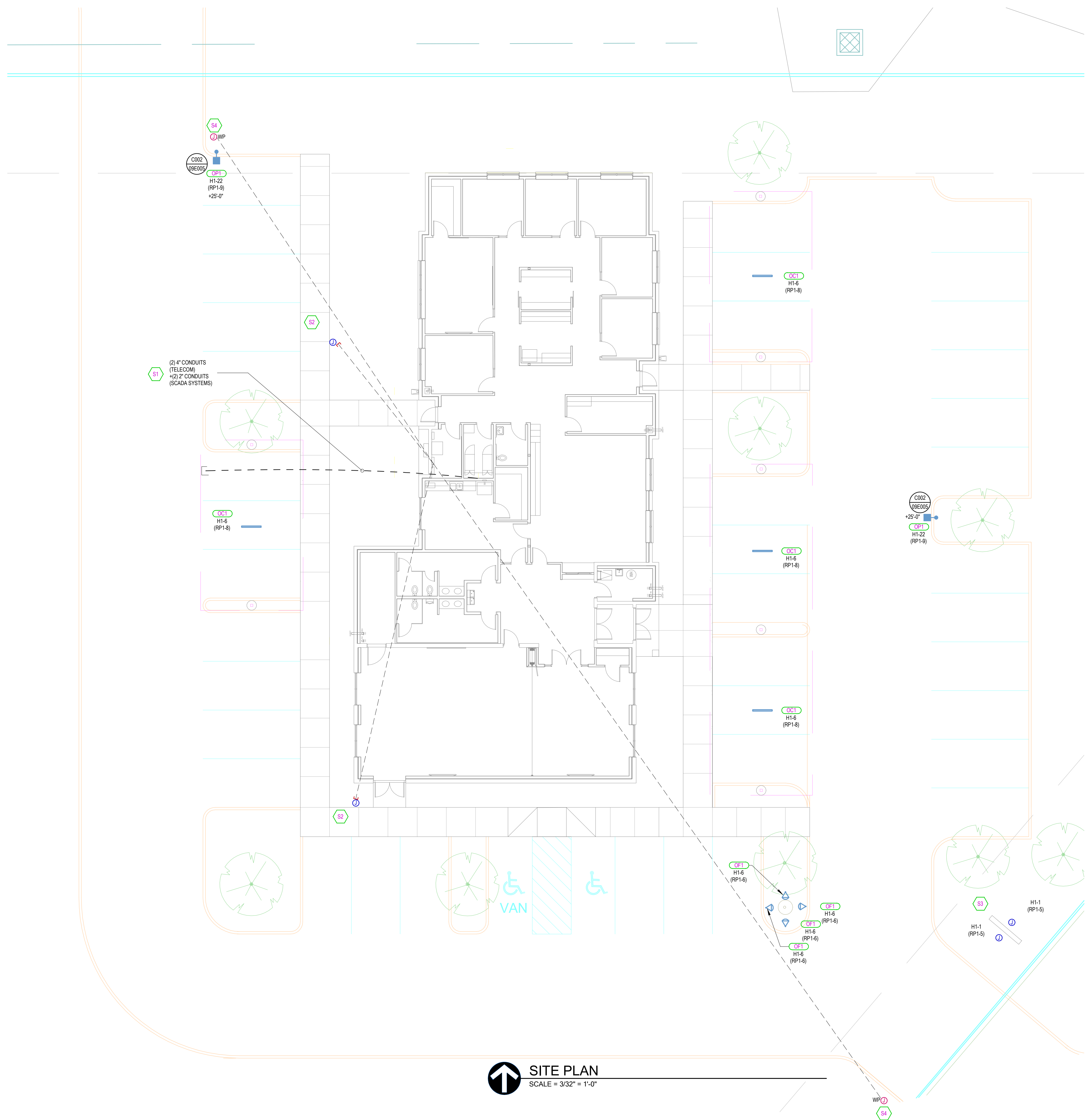
**Project 24-001**  
**NORTH PLANT ADMINISTRATION OFFICE BUILDING**  
SOUTH DAVIS SEWER DISTRICT  
1800 WEST 1200 NORTH  
WEST BOUNTIFUL, UTAH

Date Revisions

03/05/2024

**09E008**





**SITE PLAN**  
SCALE = 3/32" = 1'-0"

SHEET KEYNOTES	
S1	CONDUITS TO BE STUBBED 5' OUTSIDE THE BUILDING AND TO BE CONNECTED TO CONDUITS FROM MAIN PLANT SYSTEM BY OTHERS. COORDINATE ON SITE WITH SITE CONTRACTOR.
S2	PROVIDE (1) 2" CONDUIT WITH PULL STRING FROM PANEL L1 IN ELECTRICAL ROOM TO THIS APPROXIMATE LOCATION FOR FUTURE DUAL EV CHARGING STATION. CAP PVC CONDUIT 6" BELOW LANDSCAPE SURFACE AND CENTER BETWEEN TWO PARKING SPACES.
S3	POWER FOR SIGNAGE LIGHTING ON BOTH SIDES OF SIGNAGE. COORDINATE WITH PYLONG SIGN INSTALLER.
S4	PROVIDE 1.5" CONDUIT WITH PULL STRING FROM PANEL L1 TO SLIDING GATE MOTOR. WIRING AND FINAL TERMINATIONS WILL BE BY SITE SUB-CONTRACTOR. SITE SUB-CONTRACTOR TO COORDINATE WITH BUILDING ELECTRICAL CONTRACTOR.

Date  
**03/05/2024**

Project  
**24-001**

Revisions

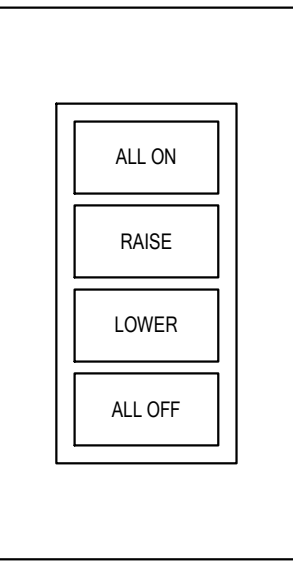

**09E101**

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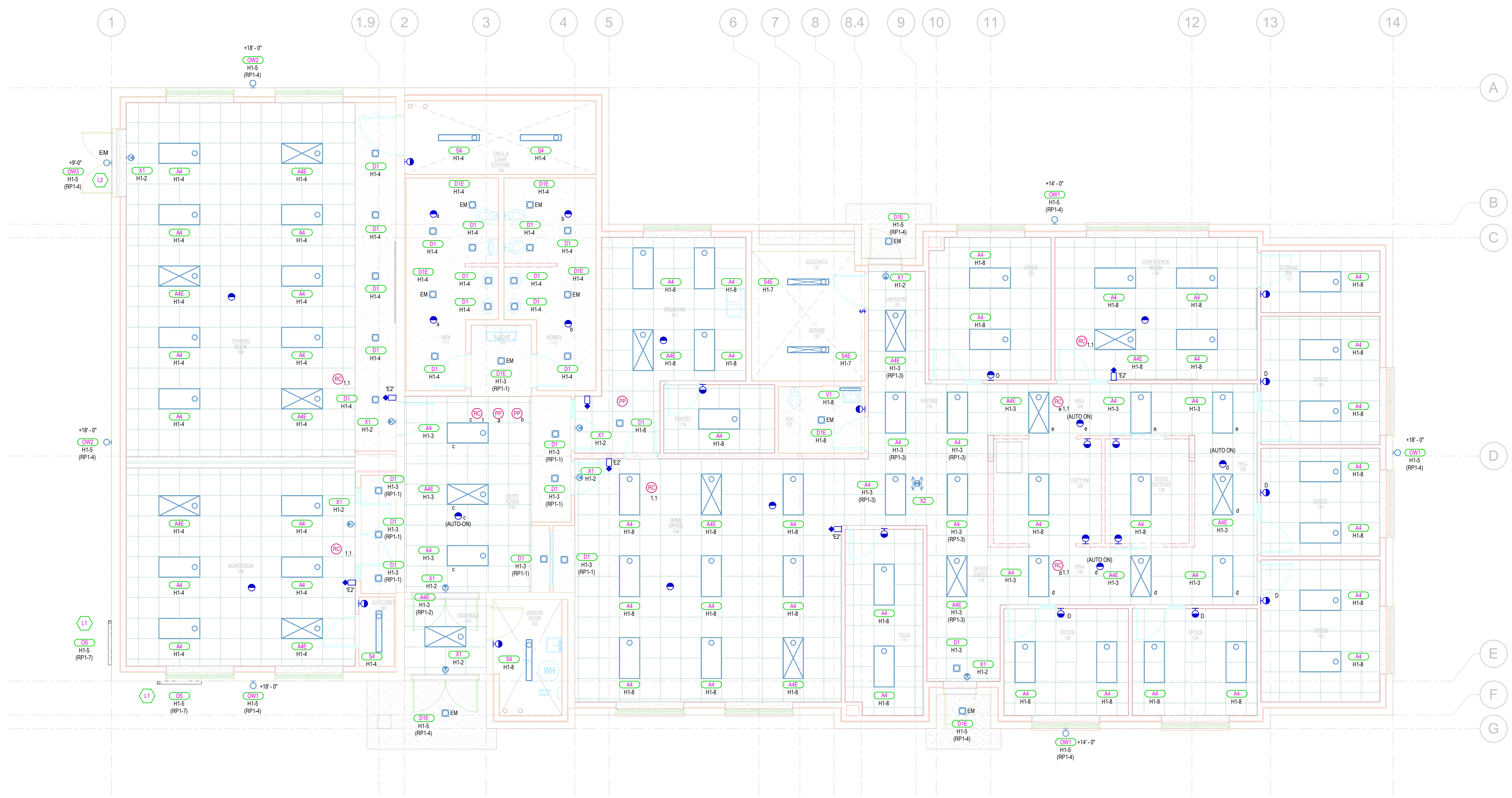
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WALLSTATION 'E2' CONFIGURATION	
ENGRAVING	PROGRAMMING
ALL ON	BUTTON TO TURN ON ALL LIGHTING TO 100%
RAISE	BUTTON TO RAISE LIGHTING LEVEL
LOWER	BUTTON TO LOWER LIGHTING LEVEL
ALL OFF	BUTTON TO TURN OFF ALL LIGHTING
CONTROL SEQUENCE	
UPON ENTERING THE SPACE, OCCUPANCY SENSOR SHALL TURN ALL LIGHTING ON TO 50%. OCCUPANT THEN CAN SET LIGHT LEVELS. OCCUPANCY SENSOR TO TURN OFF LIGHTS AFTER 20 MINUTES OF VACANCY.	

- ### LIGHTING GENERAL SHEET NOTES
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ALL FIXTURE LOCATIONS WITHIN A CEILING OR CEILING GRID. FOR AREAS WITHOUT CEILINGS, FIXTURE LOCATIONS ARE DIAGRAMMATIC. THE INTENT IS TO ALIGN, CENTER, OR SPACE FIXTURES BETWEEN ARCHITECTURAL AND STRUCTURAL ELEMENTS. COORDINATE WITH PAINTING CONTRACTOR FOR PAINTING OF EXPOSED RACEWAY.
  - ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR PLACEMENT OF FIXTURES WITHIN MECHANICAL ROOMS.
  - ALL ROOM CONTROLLERS AND/OR POWER PACKS SHALL BE INSTALLED IN THE CEILING SPACE DIRECTLY ABOVE THE ENTRY DOOR TO THE SPACE IT IS CONTROLLING.
  - PROVIDE 0-10V DIMMING CONDUCTORS FOR ALL AREAS AND/OR ROOMS WHERE 0-10V DIMMING IS INDICATED BY THE RELAY PANEL SCHEDULE AND/OR WALL STATION CONTROL SEQUENCE.
  - SUBSCRIPT ADJACENT TO LIGHT FIXTURE INDICATES CONTROLS, PROVIDE LIGHTING CONTROLS WITH THE REQUIRED NUMBER OF RELAY/DIMMERS. PROVIDE ADDITIONAL RELAY/DIMMERS FOR DAYLIGHT ZONES AS REQUIRED.

- ### SHEET KEYNOTES
- L1 FIXTURE TO BE MOUNTED ON TOP OF SIGNAGE. REFER TO ARCHITECTURAL ELEVATION FOR EXACT LOCATION OF SIGNAGE.
  - L2 PROVIDE REMOTE BATTERY PACK AND LOCATE THE BATTERY PACK INSIDE THE BUILDING.



**LIGHTING CEILING PLAN**  
SCALE = 3/16" = 1'-0"

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Project **24-001**  
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Date	Revisions
03/05/2024	

**09E201**

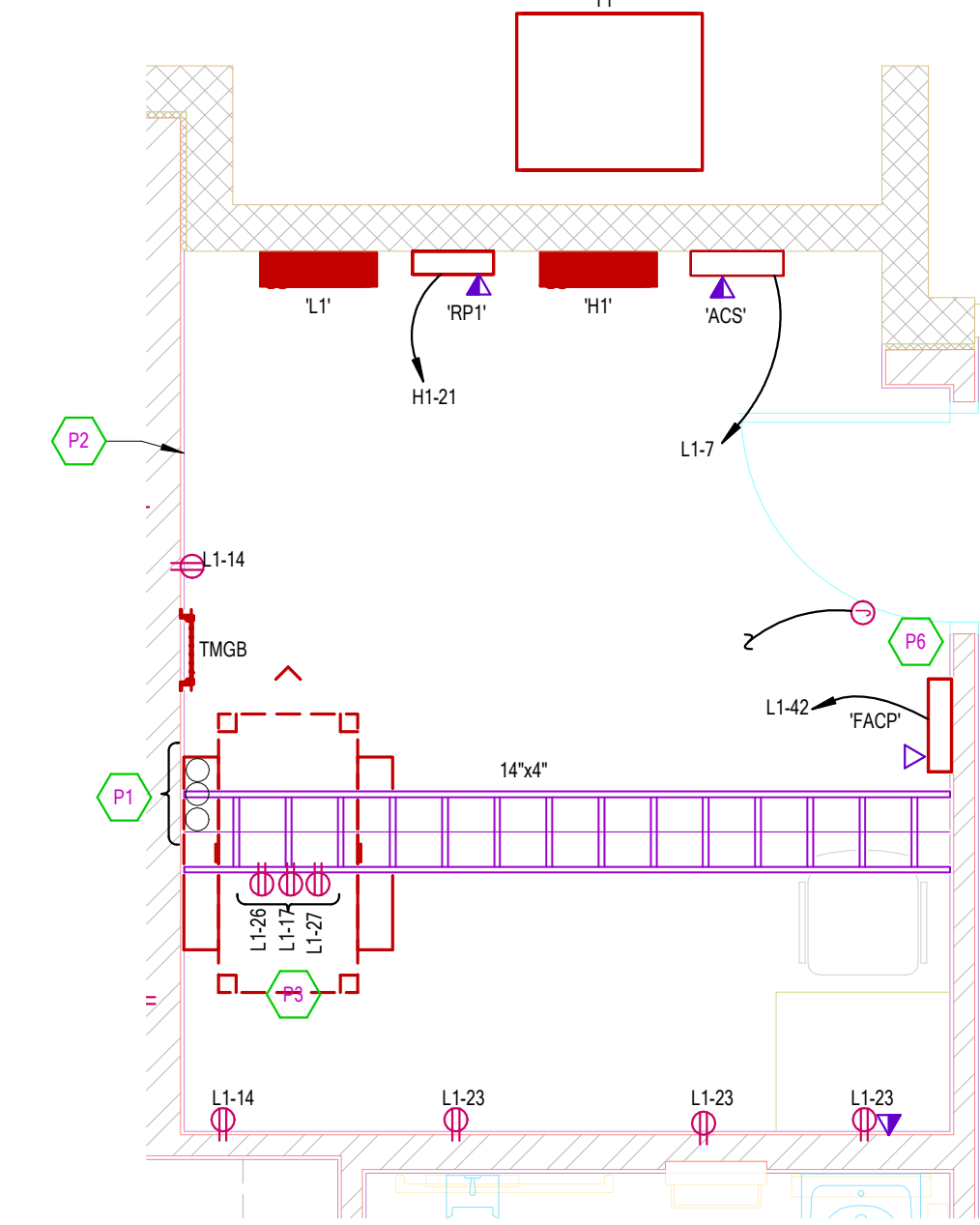
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## POWER GENERAL SHEET NOTES

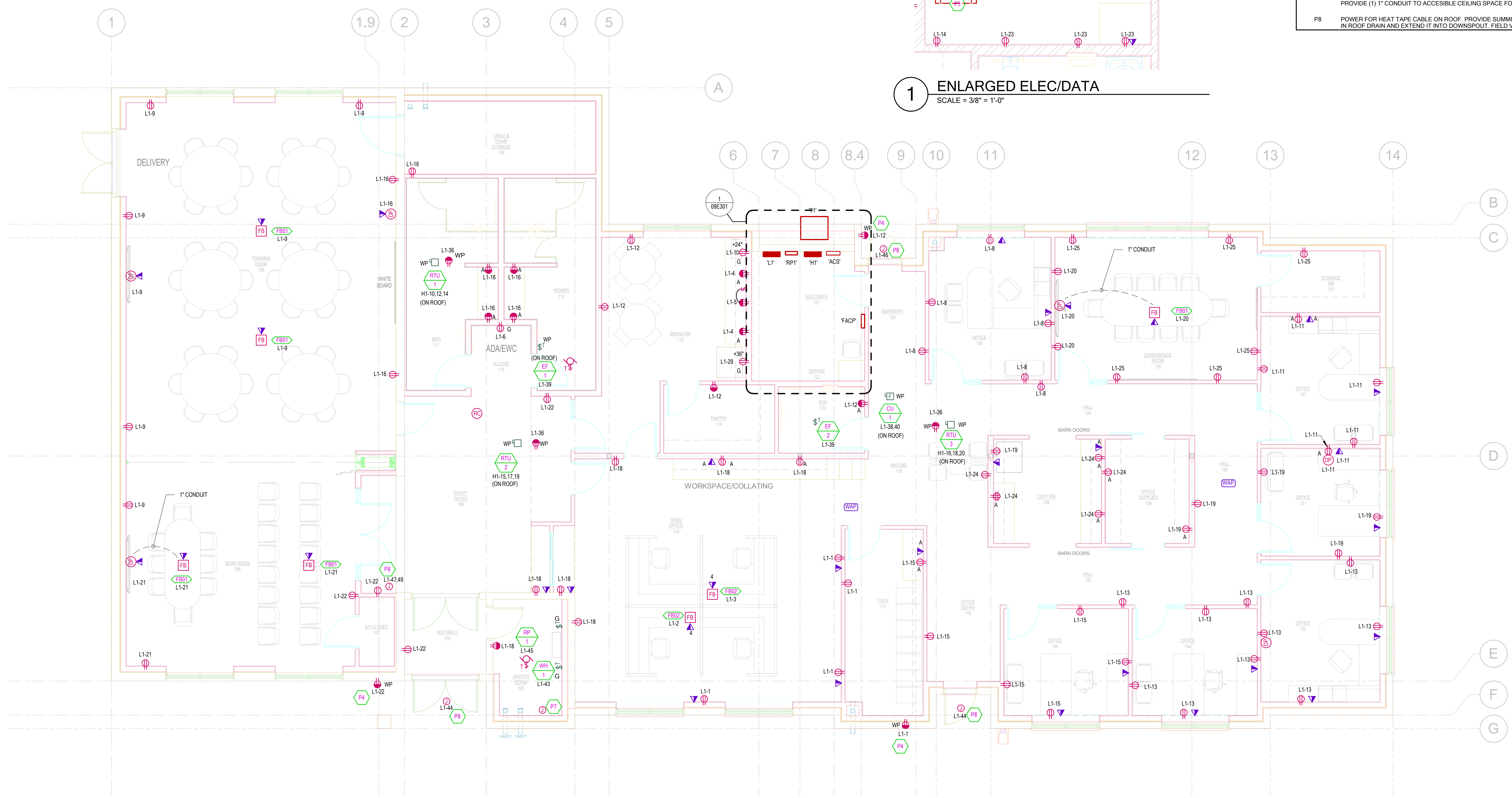
- ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH MECHANICAL CONTRACTOR.
- CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.
- FOR VAV POWER, PROVIDE A DEDICATED 120V/20A CIRCUIT FROM A PANEL LOCATED IN THE ELECTRICAL ROOM OF THE ASSOCIATED QUADRANT. COORDINATE EXACT LOCATION OF ALL VAV BOXES WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- PROVIDE 120V CIRCUIT FROM THE NEAREST PANELBOARD FOR FIRE/SMOKE DAMPER RELAYS. PROVIDE FIRE ALARM MODULES AND RELAYS AS NECESSARY FOR ALL FIRE/SMOKE DAMPERS SHOWN ON DIVISION 23 DRAWINGS. ALL FIRE/SMOKE DAMPERS SHALL HAVE A MANUAL OVERRIDE SWITCH. PROVIDE DUCT DETECTOR WITHIN 5 FEET OF EACH FIRE/SMOKE DAMPER. REFER TO DIAGRAM D012 ON SHEET 09E005.

## SHEET KEYNOTES

- P1 (2) 4" CONDUITS FOR TELECOM AND (2) 2" CONDUITS FOR SCADA SYSTEM FROM SITE TO BE STUBBED AT THIS LOCATION. TELECOM AND SCADA FEEDS ARE RUN FROM MAIN SEWER PLANT BY OTHERS. COORDINATE WITH ON SITE CONTRACTOR.
- P2 INSTALL 3/4" FIRE RATED PLYWOOD FROM 8" A.F.F.
- P3 MOUNT RECEPTACLES ON SIDE OF CABLE TRAY.
- P4 PROVIDE GFCI RECEPTACLE WITH LOCKABLE IN USE COVER (TAY MAC MX 3200 OR SIMILAR).
- P6 INDOOR UNIT SPLIT AC SYSTEM POWERED FROM OUTDOOR CONDENSING UNIT. PROVIDE 3/4" CONDUIT FROM OUTDOOR TO INDOOR UNIT FOR ANY CABLING.
- P7 PROVIDE (1) 1" CONDUIT TO ACCESSIBLE CEILING SPACE FOR FUTURE POWER FOR IRRIGATION CONTROLLER. PROVIDE (1) 1" CONDUIT TO ACCESSIBLE CEILING SPACE FOR DATA CABLE.
- P8 POWER FOR HEAT TAPE CABLE ON ROOF. PROVIDE SUMMIT SYSTEMS SELF REGULATING CABLE WITH 12W/FT IN ROOF DRAIN AND EXTEND IT INTO DOWNSPOUT. FIELD VERIFY EXACT LENGTH OF THE HEAT TAPE CABLE.



**1 ENLARGED ELEC/DATA**  
SCALE = 3/8" = 1'-0"



**POWER PLAN**  
SCALE = 3/16" = 1'-0"

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**Project 24-001**  
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**09E301**





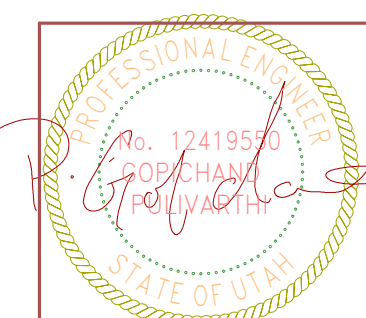
# SHEET KEYNOTES

F1 FIRE ALARM SYSTEM DUCT DETECTOR, COORDINATE WITH DIVISION 23 FOR EXACT MOUNTING LOCATION IN RETURN DUCT AND QUANTITY OF DUCT DETECTORS.

# FIRE ALARM GENERAL NOTES

1. PROVIDE #14 AWG MINIMUM WIRING FOR ALL SIGNAL AND INITIATION DEVICES.
2. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR AND PARALLEL TO BUILDING LINES. ALL EXPOSED CONDUIT ROUTING SHALL BE COORDINATED WITH OWNER'S REP PRIOR TO INSTALLATION. NO ADDITIONAL COST TO THE OWNER WILL BE ALLOWED FOR RELOCATING CONDUIT DUE TO LACK OF COORDINATION WITH THE OWNER'S REP.
3. ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS OTHERWISE NOTED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN POURED CONCRETE, PRE-CAST CONCRETE, MASONRY AND GYP WALLS.
4. CONTRACTOR SHALL COORDINATE EXACT LOCATION AND QUANTITY OF ALL DUCT TYPE SMOKE DETECTORS WITH MECHANICAL CONTRACTOR. HARD WIRE TO RELAY STARTER.
5. DEVICES INDICATED ON FIRE ALARM ONE-LINE ARE FOR REFERENCE ONLY. REFER TO PLAN DRAWINGS AND SPECIFICATIONS FOR QUANTITIES. REFER TO ARCHITECTURAL DOOR SCHEDULE FOR MAGNETIC DOOR HOLDER AND BLOW OPEN DOOR REQUIREMENTS.
6. ALL VISUAL DEVICES SHALL BE SYNCHRONIZED WITHIN THE BUILDING REGARDLESS OF PROJECT SCOPE BOUNDARIES.
7. PROVIDE FIRE ALARM RELAY MODULES FOR ALL DOORS WITH ACCESS CONTROL DEVICES.
8. PROVIDE (2) DUCT TYPE SMOKE DETECTOR FOR EACH FAN COIL UNIT, AHU, SUPPLY FAN AND HEAT PUMP OF 2000 CFM OR GREATER.
9. FIRE ALARM DEVICES SHOWN ARE FOR REFERENCE ONLY AND BASED UPON A PERFORMANCE SPECIFICATION. ALL NEW EQUIPMENT/DEVICE QUANTITIES, LOCATION, AND ALL NATIONAL & LOCAL CODE COMPLIANCE TO BE PROVIDED AND STAMPED BY A LICENSED FIRE ALARM ENGINEER AND INCLUDED IN THE FIRE ALARM CONTRACTOR'S BID. IN NO WAY ARE THE DEVICES SHOWN ON THESE DRAWINGS TO BE IMPLEMENTED AS FINAL DESIGN DOCUMENTS.
10. PROVIDE 120V CIRCUIT FROM THE NEAREST EQUIPMENT BRANCH PANELBOARD FOR FIRE/SMOKE DAMPER RELAYS. PROVIDE FIRE ALARM MODULES AND RELAYS AS NECESSARY FOR ALL FIRE/SMOKE DAMPERS SHOWN ON DIVISION 23 DRAWINGS. ALL FIRE/SMOKE DAMPERS SHALL HAVE A MANUAL OVERRIDE SWITCH. PROVIDE DUCT DETECTOR WITHIN 5'-0" OF EACH FIRE/SMOKE DAMPER. REFER TO DIAGRAM D012 ON SHEET 09E005.

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Project **24-001**  
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 SOUTH DAVIS SEWER DISTRICT  
 1800 WEST 1200 NORTH  
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Date	03/05/2024																
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	<b>09E401</b>																

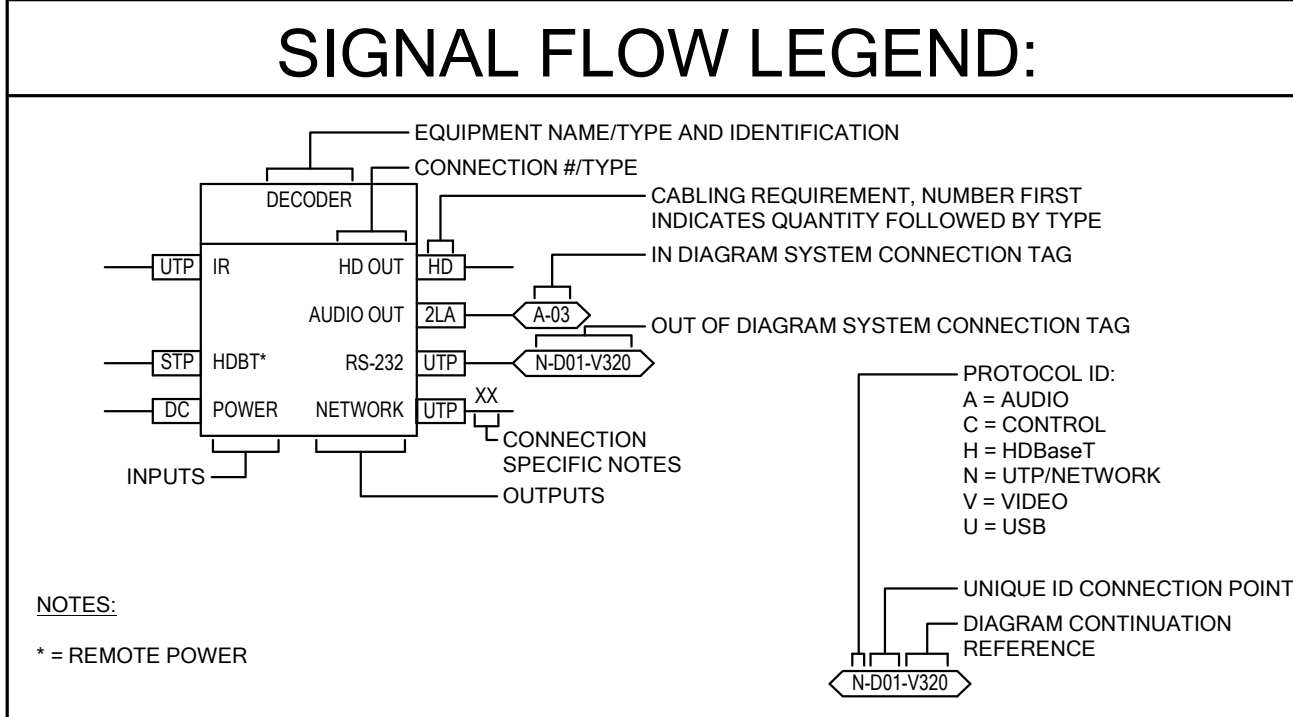
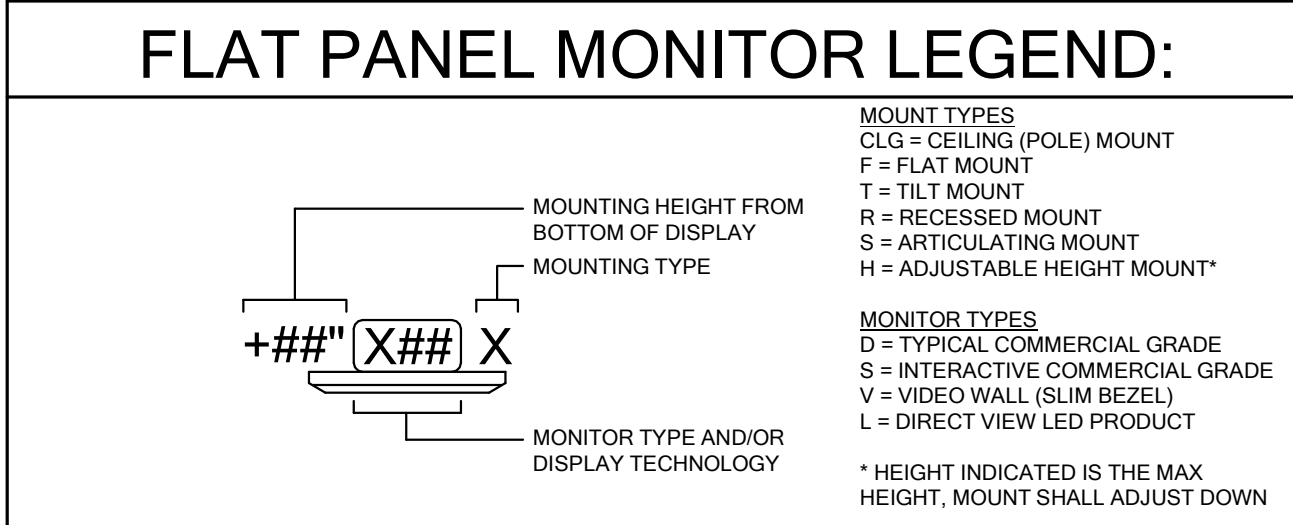
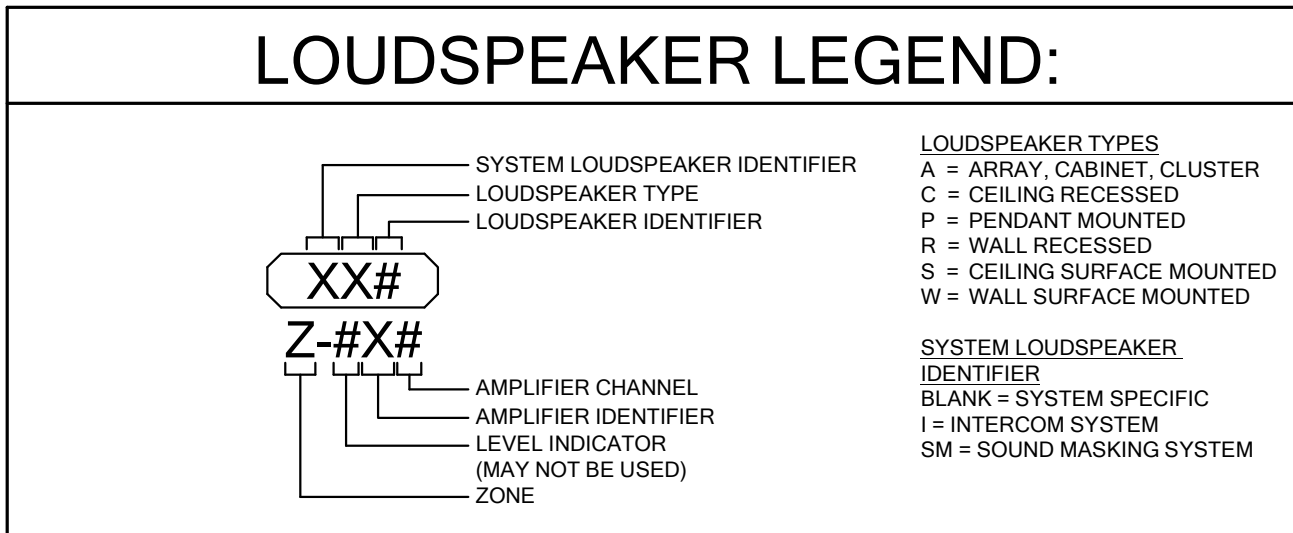
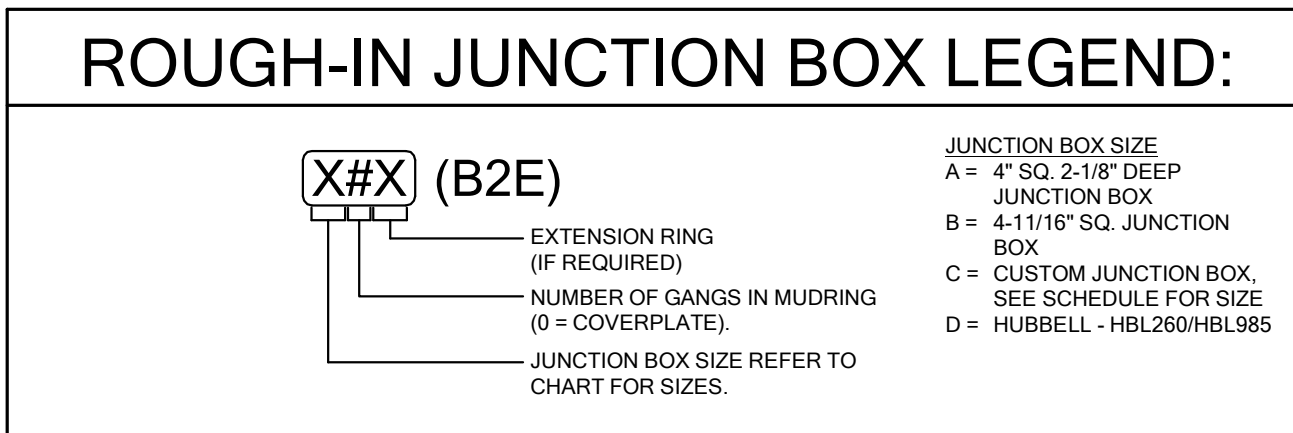
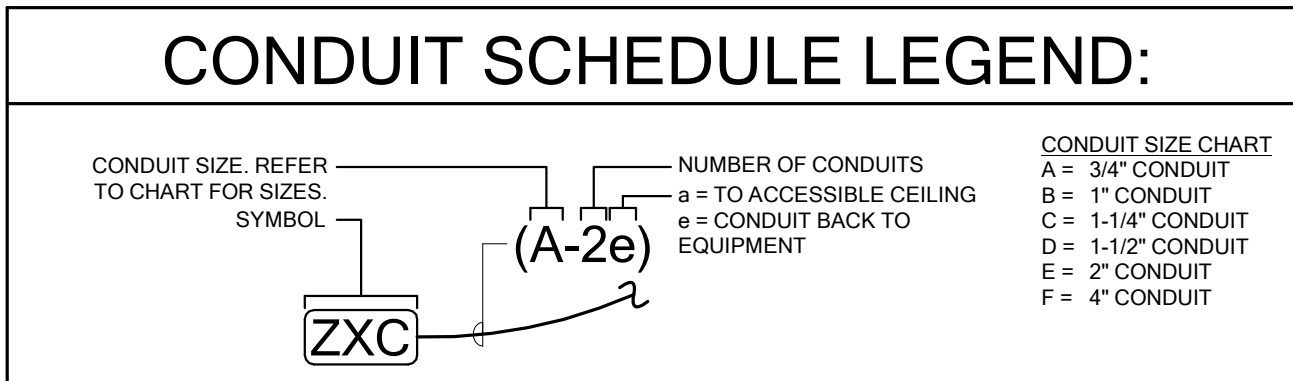
**FIRE ALARM & SECURITY PLAN**  
 SCALE = 3/16" = 1'-0"



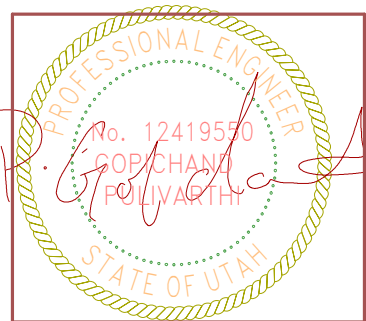


AV CUSTOM BACK BOX SCHEDULE										
TYPE	MANUFACTURER	MODEL	BOX DIMENSIONS (Cx) IN INCHES			CONDUITS	MOUNTING TYPE	MOUNTING HEIGHT	NOTES	
			HEIGHT	WIDTH	DEPTH					
C01	HUBBELL	HBL263	4 3/8"	7 7/8"	3 11/16"	(2) 1" (1) 2"	RECESSED	HORIZONTAL	2" CONDUIT RESERVED FOR CAT CABLING, (1) 1" FOR SPARE	
C02	HUBBELL	HBL260	4 11/16"	4 13/16"	3 3/8"	(1) 1 1/2"	RECESSED	HORIZONTAL	2-GANG	

FLAT PANEL WALL BOX SCHEDULE							
TYPE	DESCRIPTION	DATA	COAX	DUPL EX	AV	MFR.	MODEL
DP01	WALL MOUNTED FLAT PANEL WITH (2) DATA DROPS, (1) COAX, (1) SURGE PROTECTED DUPLEX, (1) AV PASS THROUGH	(2) DATA DROPS	(1) COAX	(1) SURGE PROTECTED DUPLEX	(1) AV PASS THROUGH	CHIEF, LEGRAND, FSR	PAC 525, EFB4, PWB4



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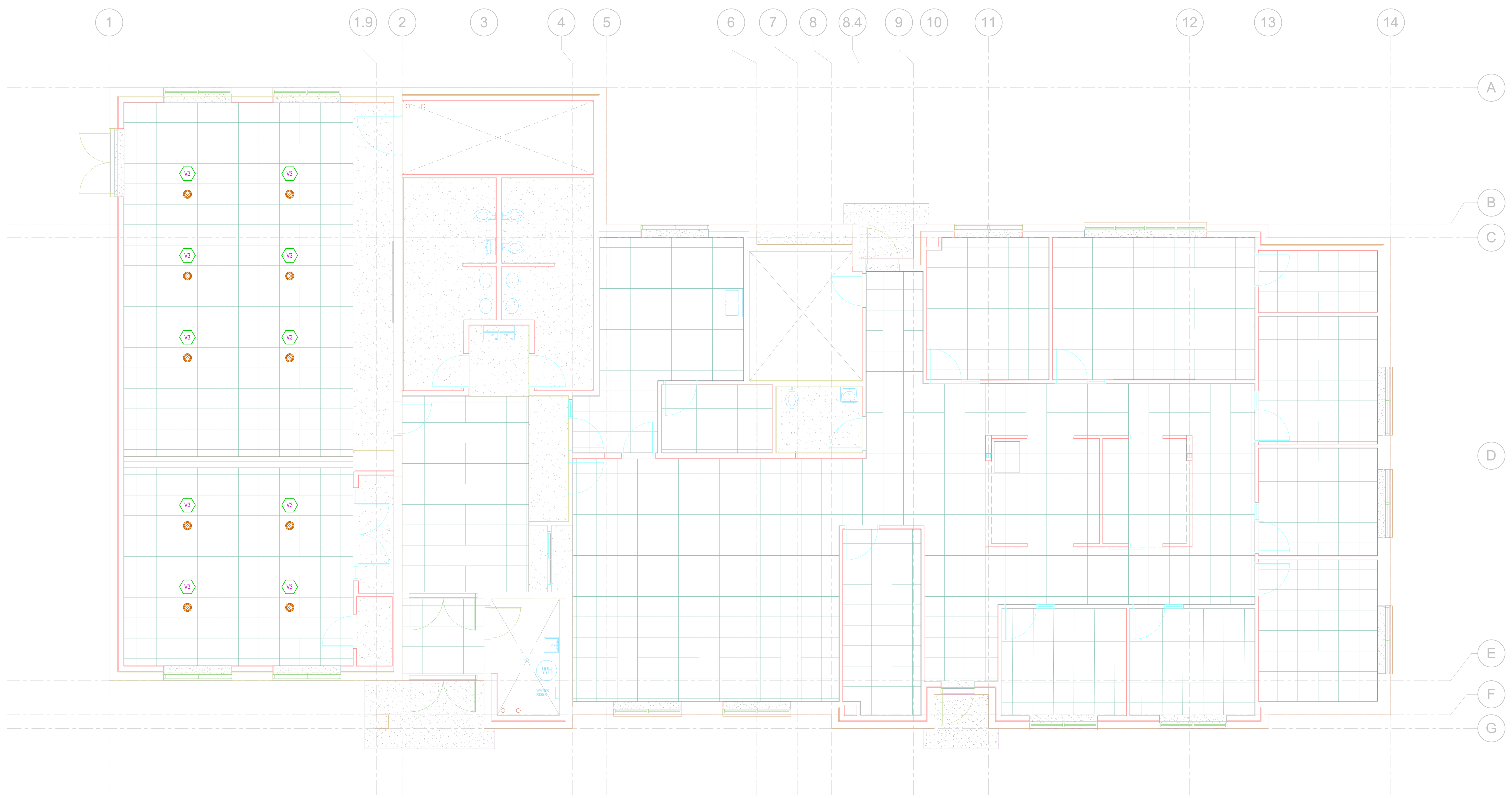
**Project**  
**24-001**  
**NORTH PLANT ADMINISTRATION OFFICE BUILDING**  
 SOUTH DAVIS SEWER DISTRICT  
 1800 WEST 1200 NORTH  
 WEST BOUNTIFUL, UTAH

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Date	Revisions
03/05/2024	

**09T002**

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**AUDIOVISUAL CEILING ROUGH-IN PLAN**  
 SCALE = 3/16" = 1'-0"

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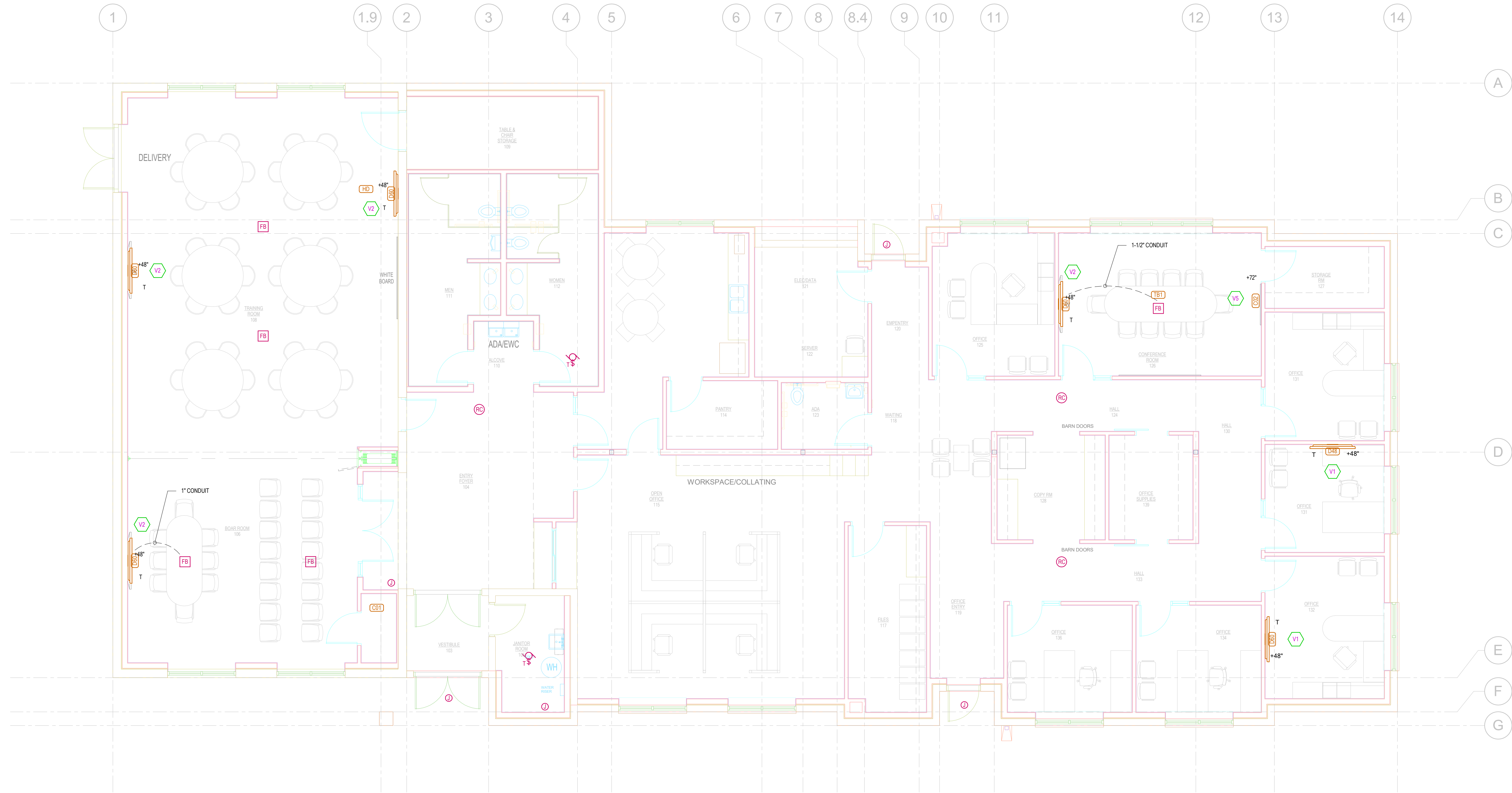
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Date	Revisions																
03/05/2024	<table border="1" style="font-size: x-small;"> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>																
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# SHEET KEYNOTES

- V1 J BOX FOR FUTURE TV. (1) 1" CONDUIT TO ACCESSIBLE CEILING ABOVE INCLUDE PAINT-MATCHING PLATE.
- V2 PROVIDE BACK BOX AND 1" CONDUIT TO ACCESSIBLE CEILING.
- V5 FOR FUTURE TV - MOUNT SINGLE GANG BOX WITH 1" CONDUIT TO ACCESSIBLE CEILING AND INCLUDE PAINT-MATCHING PLATE.



**AUDIOVISUAL ROUGH-IN PLAN**  
SCALE = 3/16" = 1'-0"

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