

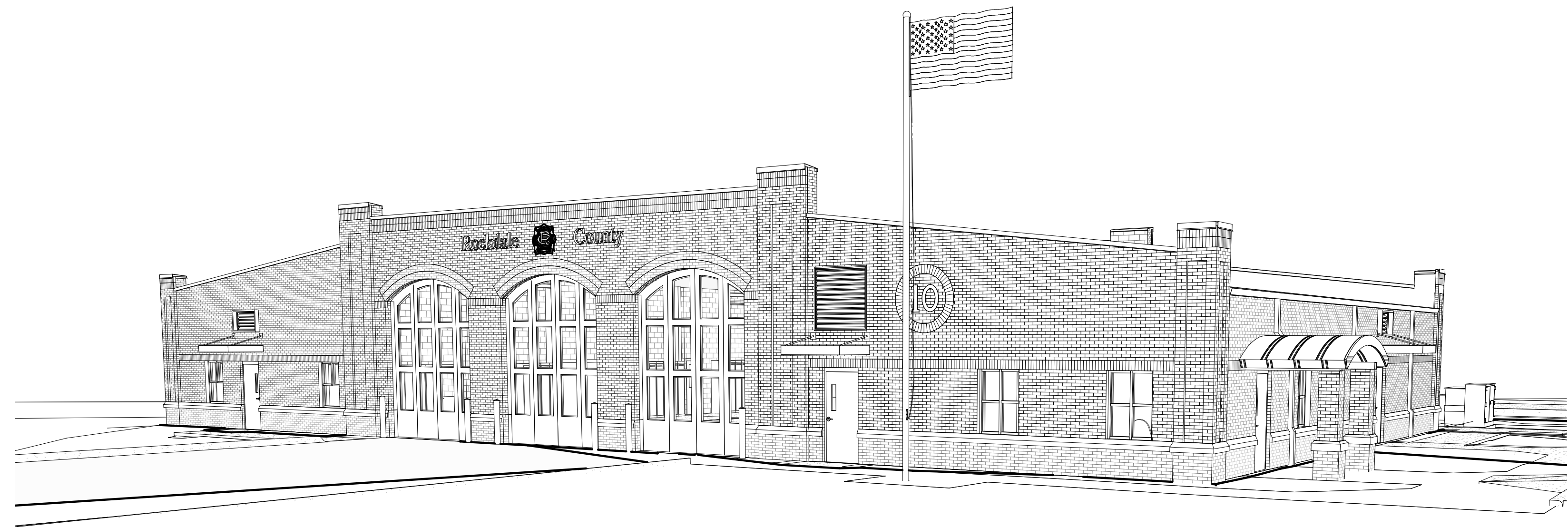
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# ROCKDALE FIRE STATION #10

## CONYERS, GA



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GENERAL NOTES

- THESE DRAWINGS ARE THE PROPERTY OF LYMAN DAVIDSON DOOLEY, INC. AND SHALL NOT BE REPRODUCED OR COPIED IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT. THESE DRAWINGS ARE TO BE USED FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN AND SHALL NOT BE USED ON ANY OTHER PROJECT. THESE DRAWINGS ARE A COMPOSITE SET AND SHALL NOT BE SEPARATED FOR DISTRIBUTION. THE GENERAL CONTRACTOR SHALL REVIEW ALL DRAWINGS AND DISTRIBUTE THE ENTIRE SET TO EACH SUBCONTRACTOR.
- THE GENERAL CONTRACTOR SHALL VISIT THE SITE TO INSPECT EXISTING CONDITIONS AND VERIFY WORK TO BE PERFORMED BEFORE SUBMITTING COST QUOTATIONS FOR WORK.
- NOTIFY THE ARCHITECT PROMPTLY OF ANY ERRORS, OMISSION, INCONSISTENCIES, DISCREPANCIES, AND CONFLICTS WITHIN THE CONTRACT DOCUMENTS AND WITH FIELD CONDITIONS. DO NOT PROCEED WITH WORK UNTIL DISCREPANCIES ARE RESOLVED TO THE SATISFACTION OF ALL PARTIES.
- DUE TO MECHANICAL REPRODUCTION ERRORS, DRAWING SCALES MAY NOT BE ACCURATE. DO NOT SCALE ANY DRAWINGS. REQUEST ANY MISSING DIMENSIONS FROM THE ARCHITECT.
- ALL WORK PERFORMED SHALL BE IN STRICT COMPLIANCE WITH GOVERNING FEDERAL, STATE AND LOCAL BUILDING CODE REQUIREMENTS. THE GENERAL CONTRACTOR SHALL TAKE ADEQUATE PRECAUTIONS TO PROTECT BUILDING OCCUPANTS, MATERIALS, AND EXISTING CONSTRUCTION THROUGHOUT ALL PHASES OF CONSTRUCTION. DAMAGE TO EXISTING-TO-REMAIN CONSTRUCTION OR EQUIPMENT SHALL BE RESTORED TO ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
- THE GENERAL CONTRACTOR SHALL COORDINATE ALL WORK TO MINIMIZE DISRUPTION OF ANY EXISTING TENANTS OR BUILDING OPERATIONS. THE GENERAL CONTRACTOR SHALL TAKE ADEQUATE PRECAUTIONS TO PROTECT BUILDING OCCUPANTS, MATERIALS, AND EXISTING CONSTRUCTION THROUGHOUT ALL PHASES OF CONSTRUCTION. DAMAGE TO EXISTING-TO-REMAIN CONSTRUCTION OR EQUIPMENT SHALL BE RESTORED TO ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
- THE GENERAL CONTRACTOR SHALL SUBMIT A SCHEDULE FOR CONSTRUCTION TO THE OWNER AND THE ARCHITECT PRIOR TO PROCEEDING WITH ANY WORK. REQUIRED DATES FOR SUBMITTALS SHALL BE INCLUDED WITH THE CONSTRUCTION SCHEDULE. THE ARCHITECT MAY REQUIRE UP TO 10 BUSINESS DAYS TO PROCESS SUBMITTALS.
- THE GENERAL CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE JOB SITE ON A DAILY BASIS.
- ANY REQUESTS FOR SUBSTITUTIONS OF ANY SPECIFIED ITEM ARE TO BE SUBMITTED TO THE ARCHITECT IN WRITING AND WILL BE CONSIDERED ONLY IF THE ALTERNATE PROPOSED IS PROVEN TO BE ADVANTAGEOUS TO THE OWNER WITH RESPECT TO DELIVERY DATE, QUALITY, OR COST.
- THE ARCHITECT HAS NOT CONDUCTED ANY INVESTIGATION AS TO THE PRESENCE OF ASBESTOS OR OTHER HAZARDOUS SUBSTANCES ON THE PROJECT SITE AND ASSUMES NO RESPONSIBILITY WITH RESPECT TO SAME.
- THE MEANS AND METHODS OF CONSTRUCTION AND TEMPORARY STRUCTURES AND FACILITIES, ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THE ARCHITECT DOES NOT ASSUME ANY RESPONSIBILITY FOR THE CONTRACTOR'S MEANS AND METHODS OR FOR TEMPORARY STRUCTURES.
- DEMOLITION OF EXISTING STRUCTURES IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THE CONTRACTOR SHALL EMPLOY ENGINEERING EXPERTISE AS NEEDED TO ASSIST IN DEMOLITION.
- JOB SITE SAFETY AND SECURITY ARE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR SHALL CONSULT WITH LOCAL FIRE AUTHORITIES TO ASCERTAIN REQUIREMENTS FOR FIRE SUPPRESSION AND SAFETY DURING CONSTRUCTION. THE GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR MEETING OSHA REGULATIONS DURING CONSTRUCTION.
- THE GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR STORAGE AND PROTECTION OF BUILDING MATERIALS, AND INSTALLED CONSTRUCTION, FROM INCLEMENT WEATHER, THEFT, AND OTHER HAZARDS. THE G.C. SHALL FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS FOR STORAGE OF MATERIALS. PARTIALLY COMPLETED WALLS SHALL BE COVERED TO PROTECT FROM WATER INTRUSION. DAMAGE, INCLUDING BUT NOT LIMITED TO MOLD, RESULTING FROM WATER INTRUSION DURING CONSTRUCTION SHALL BE REPAIRED AT THE GENERAL CONTRACTOR'S EXPENSE.

PROJECT TEAM

<b>OWNER'S REPRESENTATIVE</b>	
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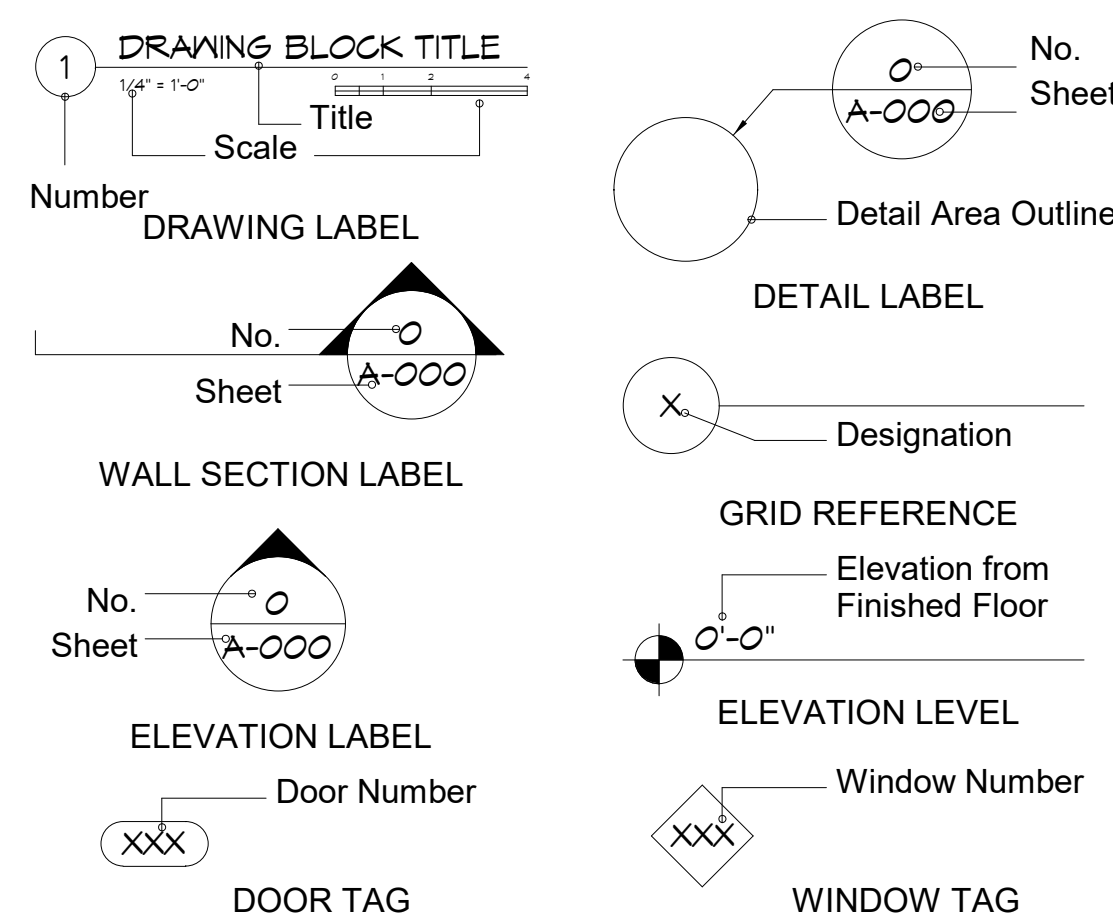
ABBREVIATIONS

ADA	AMER. W/ DISABILITIES ACT	HORIZ	HORIZONTAL
ADJ	ADJUSTABLE	INSUL	INSULATION
AFF	ABOVE FINISHED FLOOR	INT	INTERIOR
ALUM	ALUMINUM	LAV	LAVATORY
CJ	CONTROL JOINT	LAV	LAVATORY
CONC	CONCRETE	MECH	MECHANICAL
CMU	CONC. MASONRY UNIT	MIN	MINIMUM
DBL	DOUBLE	M/O	MASONRY OPENING
DIA	DIAMETER	MTL	METAL
DIM	DIMENSION	NFHB	NON FREEZE HOSE
DS	DOWNSPOUT	BIB	BIB
ELEC	ELECTRICAL	NIC	NOT IN CONTRACT
EWC	ELECTRIC WATER COOLER	NTS	NOT TO SCALE
EXP	EXPANSION	OC	ON CENTER
EXT	EXTERIOR	OPP	OPPOSITE
FDC	FIRE DEPT. CONNECTION	PT	PRESSURE TREATED
FE	FIRE EXTINGUISHER	REINF	REINFORCED
FEC	FIRE EXTINGUISHER CABINET	RL	ROOF LEADER PIPE
FFE	FINISH FLOOR ELEVATION	RO	ROUGH OPENING
FRP	FIBERGLASS REINF. PLASTIC	SCW	SOLID CORE WOOD
FRT	FIRE RETARDANT TREATED	SIM	SIMILAR
FOB	FACE OF BLOCK	SOG	SLAB ON GRADE
GALV	GALVANIZED	STRUCT	STRUCTURAL
GC	GENERAL CONTRACTOR	TOS	TOP OF STEEL
GWB	GYPSON WALL BOARD	TYP	TYPICAL
GYP	GYPSONUM	UNO	UNLESS NOTED
HM	HOLLOW METAL	OTHERWISE	OTHERWISE
		VERT	VERTICAL
		VIF	VERIFY IN FIELD

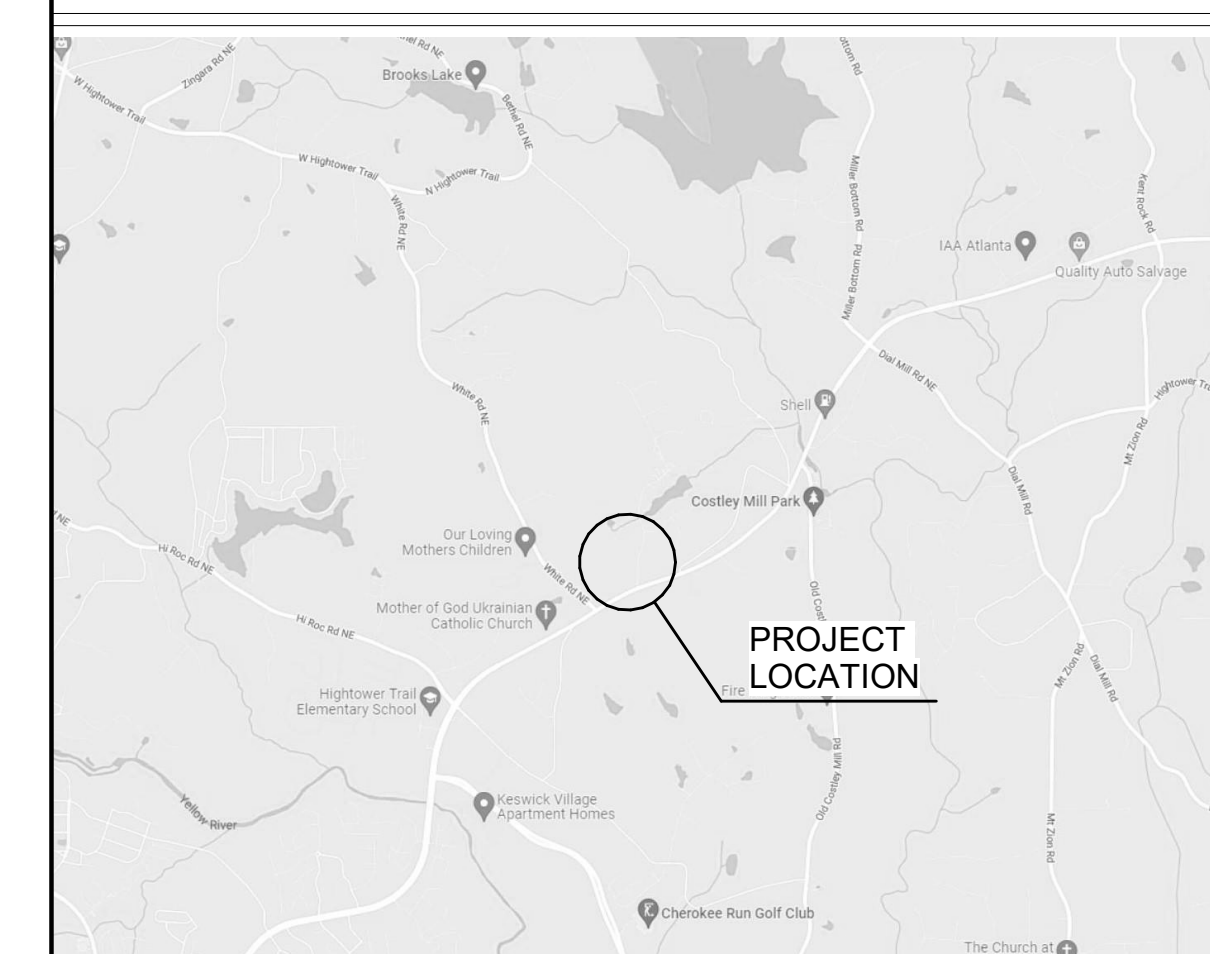
PROJECT INFORMATION

<b>CODE SUMMARY</b> Atlanta, GA		<b>BUILDING DATA</b>	
INTERNATIONAL BUILDING CODE w/ 2020 GA AMEND.	2018	OCC AREA 1 (BUSINESS)	539 SF
INTERNATIONAL MECHANICAL CODE w/ 2020 GA AMEND.	2018	OCC AREA 2 (RESIDENTIAL)	3,014 SF
INTERNATIONAL PLUMBING CODE w/ 2020 GA AMEND.	2018	OCC AREA 3 (STORAGE)	731 SF
INTERNATIONAL ENERGY CONS. CODE w/ 2020 GA AMEND.	2015	OCC AREA 4 (STORAGE 2)	4,093 SF
INTERNATIONAL FIRE CODE	2018	TOTAL	8,377 SF
INTERNATIONAL FUEL GAS CODE w/ 2020 GA AMEND.	2018	(GROSS SF TO THE EXTERIOR FACE OF EXTERIOR WALLS)	EXIST 0 SF
NATIONAL ELECTRIC CODE	2020	ALLOWABLE AREA	92,000 SF
NFPA 101 LIFE SAFETY CODE	2018	SCOPE OF WORK	NEW CONSTRUCTION
ADA STANDARDS FOR ACCESSIBLE DESIGN	2010	OCCUPANCY TYPE	MIXED: BUSINESS, STORAGE, RESIDENTIAL
		CONSTRUCTION TYPE	IIB
		SPRINKLERED	YES
		MEZZANINE	NO
		BUILDING HEIGHT	22'-4"
		ALLOWABLE HEIGHT	75'-0"
		OCCUPANT LOAD	37-OCC

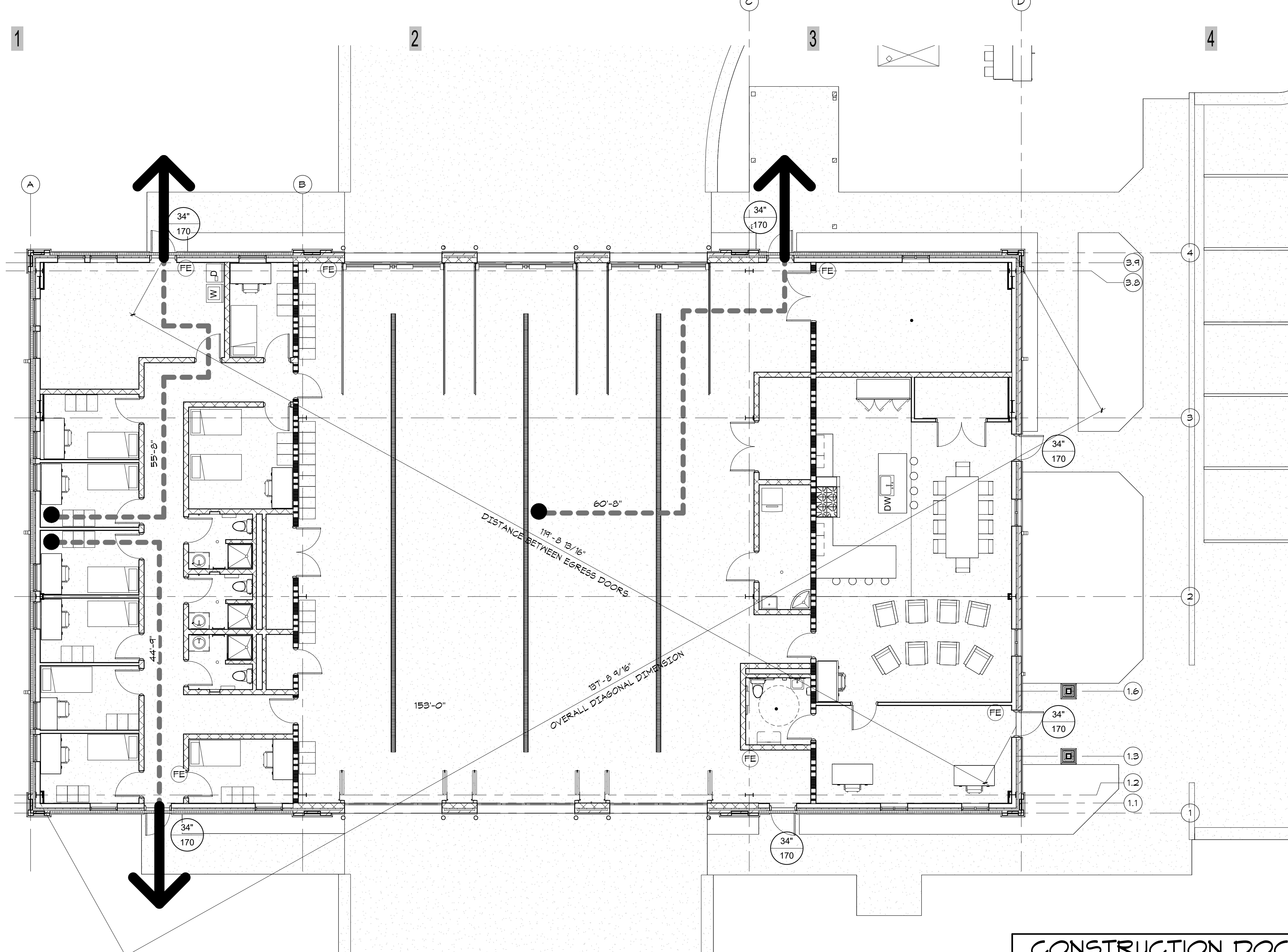
ANNOTATION SYMBOLS



VICINITY MAP







**1 LIFE SAFETY PLAN**  
1/8" = 1'-0"

**EGRESS REQUIREMENTS**

	AREA (SF)	OCCUPANCY CALC.
BUSINESS	539 SF	/100 = 5.39
RESIDENTIAL	3,014 SF	/200 = 15.07
STORAGE	731 SF	/300 = 2.44
STORAGE 2	4,093 SF	/300 = 13.64
<b>TOTAL</b>	<b>8,377 SF</b>	<b>36.54 = 37</b>

REQUIRED EGRESS WIDTH	37 OCC. X 0.2 = 7.4"
REQUIRED NUMBER OF EXITS	2
MAXIMUM TRAVEL DISTANCE	300'-0"

EXIT REMOTENESS IN FULLY SPRINKLERED BUILDING: 138'-0" X 1/3 = 46'-0"	
REQUIRED EXIT REMOTENESS	46'-0"
PROVIDED EXIT REMOTENESS	119'-9"

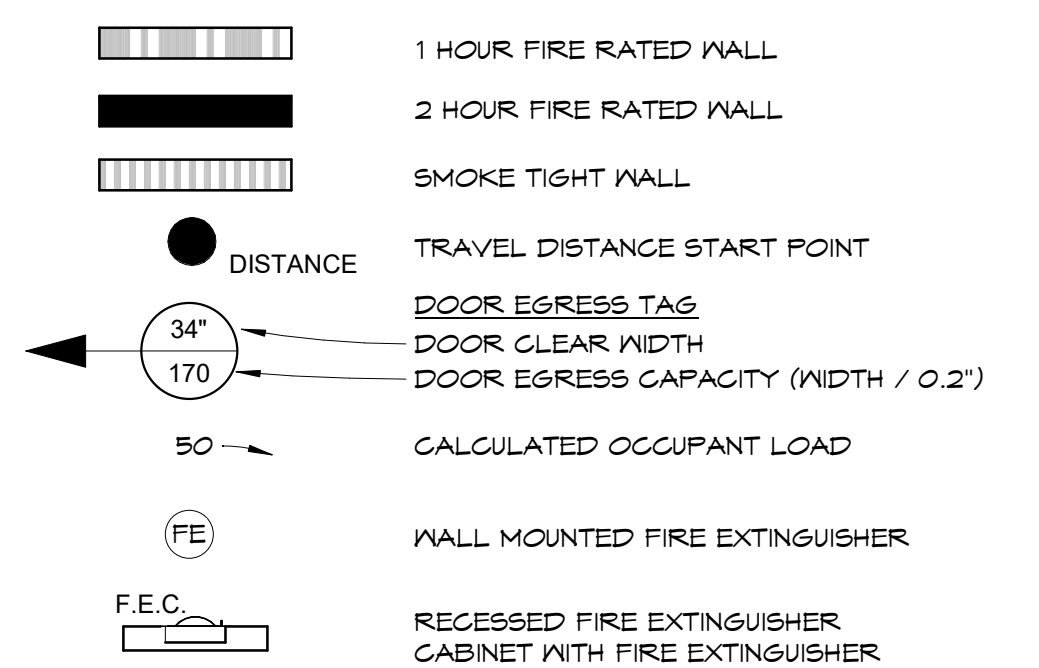
**CONSTRUCTION DOC. NOTES**

**CONSTRUCTION DOCUMENT NOTES:**  
-THE CONSTRUCTION DOCUMENTS ARE THE WRITTEN AND GRAPHIC DOCUMENTS PREPARED FOR COMMUNICATING THE PROJECT DESIGN FOR CONSTRUCTION AND ADMINISTERING THE CONSTRUCTION CONTRACT. THEY CONSIST OF THE DRAWINGS, SPECIFICATIONS, CONTRACTING REQUIREMENTS, PROCUREMENT REQUIREMENTS, MODIFICATIONS, AND ADDENDA.  
-ANY INFORMATION INCLUDED IN THESE DOCUMENTS SHOULD BE INCLUDED IN THE PROJECT BY THE CONTRACTOR WITHOUT ADDITIONAL COST UNLESS A SPECIFIC CLARIFICATION HAS BEEN MADE IN THE OWNER CONTRACTOR AGREEMENT.  
-IF WRITTEN (SPECIFICATION) AND GRAPHIC DOCUMENTS (DRAWINGS) PROVIDE CONFLICTING INFORMATION, THE CONTRACTOR SHALL ISSUE A REQUEST FOR INFORMATION (RFI) TO THE ARCHITECT TO CLARIFY THE CONFLICT.  
-IF AN ITEM IS ONLY NOTED IN THE WRITTEN DOCUMENTS AND NOT THE GRAPHIC DOCUMENTS, OR VICE VERSA, THE CONSTRUCTION DOCUMENTS AS A WHOLE STILL INCLUDE THE PROVISION FOR THE ITEM AND THE CONTRACTOR SHOULD INCLUDE THE ITEM WITHOUT ADDITIONAL COST.  
-UNLESS NOTED OTHERWISE, ALL COMPONENTS OF THE CONSTRUCTION DOCUMENTS ARE TO BE PROVIDED AND INSTALLED BY THE GC. OWNER PROVIDED ITEMS ARE TO BE INSTALLED BY GC, INCLUDING BLOCKING, UNLESS NOTED OTHERWISE.  
**MOCK UP PANEL REQUIREMENT:**  
-GC IS TO CONSTRUCT A MOCK-UP PANEL, SEPARATE FROM THE BUILDING, TO SHOW THE FULL SCOPE OF THE EXTERIOR FINISH MATERIALS INCLUDING CLADDING, WINDOW SYSTEM, AND THE WATERPROOFING SYSTEMS BEHIND THE FINISHES AND AT THE OPENINGS. THE MOCK-UP PANEL IS TO BE COMPLETED FOR REVIEW/APPROVAL PRIOR TO THE CONSTRUCTION/ INSTALLATION OF EXTERIOR COMPONENTS ON THE BUILDING.  
**SPRINKLER SHOP DRAWING NOTE:**  
SPRINKLER CONTRACTOR TO SUBMIT SHOP DRAWINGS, PRODUCT DATA AND CALCULATIONS TO THE FIRE MARSHAL FOR REVIEW AND APPROVAL.  
**FIRE ALARM SHOP DRAWING NOTE:**  
THE FIRE ALARM CONTRACTOR TO SUBMIT SHOP DRAWINGS AND PRODUCT DATA TO THE FIRE MARSHAL FOR REVIEW AND APPROVAL.

**CODE NOTES**

(Doors/Hardware) Handles, pulls, latches, locks, and other operable parts on doors and gates shall comply with 309.4. Operable parts of such hardware shall be 34 inches minimum and 48 inches maximum above the finish floor or ground. Operable parts shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be 5 pounds (22.2 n) maximum. ADA Standards for Accessible Design, 2010 Edition, 404.2.7.  
(Fire Extinguishers) Provide portable fire extinguishers per IFC 906 of the currently adopted code and per the AHJ. For Class A fire hazards provide one 2-A fire extinguisher per 3,000sf or 75ft of travel (most restrictive) per table 906.3(1). Verify w/ owner before placement.  
(Flush Controls) Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309. Flush controls shall be located on the open side of the water closet except in ambulatory accessible compartments complying with 604.5.2. ADA Standards for Accessible Design, 2010 Edition, 604.6.  
(Mirrors) Mirrors located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 40 inches maximum above the finish floor or ground. Mirrors not located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 35 inches maximum above the finish floor or ground. ADA Standards for Accessible Design, 2010 Edition, 603.3.  
(Signage) For Restrooms shall be raised and braille characters and pictorial symbol signs. They shall include ADA symbol and measure 6"x8". Signs shall be installed on the wall adjacent to the latch side of the door. Where there is no wall space to the latch side of the door, including at double leaf doors, signs shall be placed on the nearest adjacent wall. Tactile characters on signs shall be located 48 inches minimum above the finish floor or ground surface, measured from the baseline of the lowest tactile character and 60 inches maximum above the finish floor or ground surface, measured from the baseline of the highest tactile character. ADA Standards for Accessible Design, 2010 Edition, 703.  
A sign clearly stating that smoking is prohibited shall be conspicuously posted by the building owner, agent, operator, person in charge or proprietor at each entrance or in a position clearly visible upon entry into the building in accordance with Georgia Smokefree Air Act of 2005. Acceptable signs shall display either "NO SMOKING" or the international "no smoking" symbol (consisting of a pictorial representation of a burning cigarette enclosed in a red circle with a red bar across it).

**LIFE SAFETY LEGEND**



**LIFE SAFETY NOTES**

- CONTRACTOR SHALL PERMANENTLY IDENTIFY ALL RATINGS AT RATED PARTITION, SMOKESTOP PARTITIONS, HORIZONTAL EXIT PARTITIONS AND EXIT ENCLOSURES BY EITHER INSTALLING SIGNS OR STENCIL PAINTING IN CONGEALED SPACES PER FIRE MARSHAL. REFER TO SPECIFICATIONS. NOTE THAT PER GA AMENDMENTS TO THE IFC (OCGA 120-3-3), THE SPACING OF THE SIGNS/STENCILS IS 12" ON CENTER WITH A MIN. OF 1 PER WALL OR BARRIER.
- AT THE INTERSECTION OF RATED INTERIOR WALLS WITH THE EXTERIOR WALL, THE RATED WALL SHALL EXTEND INTO THE STUD CAVITY TO THE INSIDE FACE OF THE EXTERIOR SHEATHING AND THE JOINT SHALL BE FIRE CAULKED. FIRE RATED WALLS ARE TO BE FIRE CAULKED AT THE TOP AND BASE. REFER TO SPECIFICATIONS AND UL DETAILS.
- GC TO INSTALL 1 HOUR MIN. RATED FIRE STOPPING SYSTEM AT INTERSECTION OF FLOOR SLAB AND INSIDE FACE OF EXTERIOR SHEATHING AT EXTERIOR WALLS, TYP. SYSTEM TO INCLUDE, BUT MAY NOT BE LIMITED TO, FIRE SAFING AND FIRE CAULK. REFER TO SPECIFICATIONS FOR THE GC'S/SUB'S RESPONSIBILITIES REGARDING SELECTION AND SUBMITTAL OF APPROPRIATE DETAILS, INCLUDING UL DETAILS, FOR ALL FIRE STOP SYSTEMS.
- INSULATING MATERIALS INSTALLED IN ANY CONSTRUCTION TYPE, CONGEALED OR EXPOSED, SHALL HAVE A FLAMESPREAD RATING NO GREATER THAN 25 AND A SMOKE DEVELOPED RATING NO GREATER THAN 450 AS DETERMINED IN ACCORDANCE WITH ASTM E 84.
- SEE UL DETAILS FOR SPECIFIC RATED PARTITION CONSTRUCTION DETAILS.
- AUTOMATIC FIRE EXTINGUISHERS SHALL BE PLACED THROUGHOUT THE BUILDING IN ACCORDANCE WITH NFPA 10 AND APPLICABLE CHAPTER OF THE CURRENTLY ADOPTED NFPA 101.
- PANIC HARDWARE SHALL BE INSTALLED AT ALL DOOR LOCATIONS SERVING AN OCCUPANT LOAD OF MORE THAN 100 PERSONS.
- DEAD END CORRIDOR LIMITATIONS TO BE BASED ON OCCUPANCY TYPE AND PER TABLE A1.8 IN THE CURRENTLY ADOPTED NFPA 101.
- A FIRE ALARM SYSTEM SHALL BE PROVIDED THROUGHOUT THE FACILITY. VOICE ANNUNCIATED ALARMS SHALL BE PROVIDED IF REQUIRED BY THE APPLICABLE CHAPTER OF THE CURRENTLY ADOPTED NFPA 101.
- EMERGENCY LIGHTING SHALL BE PROVIDED THROUGHOUT THE FACILITY TO MEET THE REQUIREMENTS OF THE APPLICABLE CHAPTER OF THE CURRENTLY ADOPTED NFPA 101.
- EMERGENCY POWER NOTIFICATION TO MEET THE REQUIREMENTS OF THE APPLICABLE CHAPTER OF THE CURRENTLY ADOPTED NFPA 101.
- COMPLIANCE WITH IFC 510 FOR EMERGENCY RESPONDER RADIO COVERAGE (FIRE SIGNAL BOOSTER) MAY BE NEEDED IF REQUIRED BY FIRE MARSHAL. THIS IS TESTED AFTER CONSTRUCTION TO DETERMINE IF THE EMERGENCY BROADCAST SIGNAL IS STRONG ENOUGH FOR FIREMEN'S RADIOS TO WORK PROPERLY INSIDE THE BUILDING. A CONSTRUCTION CONTINGENCY IS RECOMMENDED FOR THE POSSIBILITY OF THIS REQUIREMENT (\$35,000).
- SEE FLOOR PLAN SHEETS FOR FIRE EXTINGUISHER LOCATIONS.
- SEE LIFE SAFETY PLANS, REFLECTED CEILING PLANS, AND/OR ELEC. DRAWINGS FOR EXIT SIGN LOCATIONS.
- SEE FLOOR PLAN AND DOOR SCHEDULE SHEETS FOR LOCATIONS OF DOORS WHICH ARE TO RECEIVE PANIC EXIT DEVICES.

ARCHITECTURE  
PLANNING  
INTERIOR DESIGN

Lyman Davidson Dooley, Inc.  
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Marietta, GA 30067  
770.850.8494 f  
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REVISIONS

STATE OF GEORGIA  
JAMES DOUGLAS DAVIDSON  
REGISTERED ARCHITECT

NEW CONSTRUCTION  
ROCKDALE FIRE  
STATION 10  
ROCKDALE, GEORGIA

ROCKDALE  
FIRE  
STATION 10  
3130 GA Hwy, 138  
Conyers, GA 30013

ROCKDALE  
CO. FIRE  
DEPT.  
Fire Station No. 7  
1496 Rockbridge Road  
Conyers, GA 30012

TITLE LIFE SAFETY PLAN

STATUS Issue for Permit

JOB 121038.00

QC Checker

DRAWN Author

SHEET **G002**

DATE 06/22/22

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REVISIONS



NEW CONSTRUCTION  
**ROCKDALE FIRE  
STATION 10**  
ROCKDALE, GEORGIA

ROCKDALE  
FIRE  
STATION 10  
3130 GA Hwy, 138  
Conyers, GA 30013

ROCKDALE  
CO. FIRE  
DEPT.  
Fire Station No. 7  
1496 Rockridge Road  
Conyers, GA 30012

TITLE UL DETAILS

STATUS Issue for Permit

JOB 121038.00

QC Checker

DRAWN Author

SHEET **G003**

DATE 06/22/22

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### UL DETAIL - U905

March 17, 2004  
Bearing Wall Rating - 2 Hr  
Nonbearing Wall Rating - 2 Hr  
Load Restricted for Canadian Applications - Guide BXUVT

- Concrete Blocks\*** — Various designs. Classification D-2 (2 hr). 8" nom. thickness.
- Mortar** — Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland Cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.
- Portland Cement Stucco or Gypsum Plaster** — Add 1/2 hr to classification if used. Where combustible members are framed in wall, plaster or stucco must be applied on the face opposite framing to achieve a max. Classification of 1-1/2 hr. Attached to concrete blocks (Item 1).
- Loose Masonry Fill** — If all core spaces are filled with loose dry expanded slag, expanded clay or shale (Rotary Kiln Process), water repellent vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation add 2 hr to classification.
- Foamed Plastic\*** — (Optional-Not Shown) — 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1).

THE DOW CHEMICAL CO — Type Thermax

### UL Product iQ™

## XHEZ.C-AJ-2626 - Through-penetration Firestop Systems

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

### XHEZ - Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems

#### System No. C-AJ-2626

March 27, 2009

**F Ratings - 1 and 2 Hr (See Item 1)**  
**T Ratings - 0, 1 and 2 Hr (See Item 2)**  
**L Rating at Ambient — Less Than 1 CFM/sq ft**  
**L Rating at 400 F — 5 CFM/sq ft**

**SECTION A-A**

- Floor or Wall Assembly** — Min 3-3/4 in. (95 mm) or 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m<sup>3</sup>) concrete for 1 and 2 Hr rated assemblies, respectively. Wall may also be constructed of any UL Classified **Concrete Blocks\***. Floor assembly may also be constructed of any min 6 in. thick UL Classified hollow-core **Precast Concrete Units\***. The opening shall be 1 in. (25 mm) larger than the nom diam of penetrant. See **Concrete Blocks (CAZT)** and **Precast Concrete Units (CFTV)** categories in Fire Resistance Directory for names of manufacturers.
- Through-Penetrants** — One nonmetallic pipe, conduit or tubing to be centered within the firestop system installed concentrically or eccentrically within the firestop system. The annular space between the penetrant and the periphery of the opening shall be a min 0 in. (0 mm) (point contact) to a max 5/8 in. (16 mm). When steel sleeve is used, the annular space between the penetrant and the sleeve shall be a min 1/4 in. (6 mm) to a max 3/8 in. (10 mm). Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of nonmetallic pipes, conduits or tubing may be used:
  - Polyvinyl Chloride (PVC) Pipe** — Nom 2 in. (51 mm) diam (or smaller) Schedule 40 solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
  - Chlorinated Polyvinyl Chloride (CPVC) Pipe** — Nom 2 in. (51 mm) diam (or smaller) SDR13.5 or SDR17 CPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

- Rigid Nonmetallic Conduit\*** — Nom 2 in. (51 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with Article 347 of the National Electrical Code (NFPA No. 70).
- Crosslinked Polyethylene (PEX) Tubing** — Nom 2 in. (51 mm) diam (or smaller) SDR 7.3 tubing for use in closed (process or supply) piping systems or nom 2 in. (51 mm) diam (or smaller) SDR 9 PEX tubing for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
- Electrical Nonmetallic Tubing (ENT)\*** — Nom 2 in. (51 mm) diam (or smaller) corrugated-wall electrical nonmetallic tubing (ENT) constructed of polyvinyl chloride (PVC) and installed in accordance with Article 351 of the National Electrical Code (NFPA No. 70). See **Electrical Nonmetallic Tubing (FKHU)** category in the Electrical Construction Materials Directory for names of manufacturers.
- Flexible Nonmetallic Conduit, Liquid-Tight (FNMC)\*** — Nom 2 in. (51 mm) diam (or smaller) corrugated-wall flexible nonmetallic conduit, liquid-tight (FNMC) constructed of polyvinyl chloride (PVC) and installed in accordance with Article 351 of the National Electrical Code (NFPA No. 70). See **Flexible Nonmetallic Conduit, Liquid-Tight (DXOQ)** category in the Electrical Construction Materials Directory for names of manufacturers.
- Polyvinyl Chloride (PVC) Pipe** — Nom 2 in. (51 mm) diam (or smaller) Schedule 40 cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
- Acrylonitrile Butadiene Styrene (ABS) Pipe** — Nom 2 in. (51 mm) diam (or smaller) Schedule 40 solid core or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.  
**T Rating is 0 Hr when steel sleeve is used. When sleeve is not used, T Rating is 1 and 2 Hr for penetrants A, B, C, D, E and F for 1 and 2 Hr rated assemblies, respectively. T Rating is 0 Hr for penetrants G and H.**

**3. Firestop System** — The details of the firestop system shall be as follows:

- Packing Material** — (Optional) Nom 3/8 in. (10 mm) diam polyethylene backer rod or min 3/8 in. thickness of mineral wool batt insulation firmly packed into opening as a permanent form and recessed from both surfaces of floor or wall as required to accommodate the required thickness of fill material.
- Fill, Void or Cavity Material\*—Sealant** — Min 5/8 in. (16 mm) or 1 in. (25 mm) thickness of fill material applied within the annulus, flush with both surfaces of floor or wall for 1 and 2 Hr rated assemblies, respectively. An additional 1/4 in. (6 mm) bead of sealant applied at the penetrant/concrete interface at point contact location.  
**3M COMPANY 3M FIRE PROTECTION PRODUCTS** — FB-3000 WT sealant

**\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

-Bearing the UL Listing Mark

Last Updated on 2009-03-27

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# COMcheck Software Version 4.1.5.5 Envelope Compliance Certificate

## Project Information

Energy Code: 2015 IECC  
 Project Title: Rockdale County Fire Station 10  
 Location: Conyers, Georgia  
 Climate Zone: 3a  
 Project Type: New Construction  
 Vertical Glazing / Wall Area: 13%

Construction Site: 3130 GA Hwy 138, Conyers, GA 30012  
 Owner/Agent: Rockdale County Fire & Rescue, 1496 Rockbridge Rd NW, Conyers, GA 30012  
 Designer/Contractor: Lyman Davidson Dooley, Inc., 1640 Powers Ferry Rd Building 1, Marietta, GA 30067

## Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed  
 High Performance SWH, 1.0 credit

Building Area	Floor Area
1-Fire Station : Nonresidential	8377

## Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor <sup>(a)</sup>
Floor 1: Slab-On-Grade:Unheated, [Bldg. Use 1 - Fire Station] (c)	377	---	---	0.730	0.730
Roof 1: Metal Building, Standing Seam: High Albedo Roof Required, Filled Cavity with Thermal Blocks (d), 3-Year-Aged Solar Reflectance Index = 64.00 (e), [Bldg. Use 1 - Fire Station]	8189	30.0	0.0	0.041	0.035
<b>NORTH</b>					
Exterior Wall 6: Metal Building Wall, Single Layer Mineral Fiber (compressed at girt), [Bldg. Use 1 - Fire Station]	550	13.0	7.5	0.073	0.079
Window 5: Metal Frame with Thermal Break:Fixed, Perf. Specs.: Product ID TBD, SHGC 0.25, [Bldg. Use 1 - Fire Station] (b)	47	---	---	0.460	0.460
Door 5: Insulated Metal, Swinging, [Bldg. Use 1 - Fire Station]	21	---	---	0.600	0.610
Exterior Wall 7: Metal Building Wall, Single Layer Mineral Fiber (compressed at girt), [Bldg. Use 1 - Fire Station]	550	13.0	7.5	0.073	0.079
Window 18: Metal Frame with Thermal Break:Fixed, Perf. Specs.: Product ID TBD, SHGC 0.25, [Bldg. Use 1 - Fire Station] (b)	16	---	---	0.460	0.460
Door 6: Insulated Metal, Swinging, [Bldg. Use 1 - Fire Station]	21	---	---	0.600	0.610
Exterior Wall 8: Concrete Block:8", Partially Grouted, Cells Empty, Medium Density, Furring: None, [Bldg. Use 1 - Fire Station]	1200	---	7.5	0.100	0.123
Door 7: Insulated Metal, Swinging, [Bldg. Use 1 - Fire Station]	504	---	---	0.600	0.610
<b>EAST</b>					
Exterior Wall 4: Metal Building Wall, Single Layer Mineral Fiber (compressed at girt), [Bldg. Use 1 - Fire Station]	834	13.0	7.5	0.073	0.079
Window 3: Metal Frame with Thermal Break:Fixed, Perf. Specs.: Product ID TBD, SHGC 0.25, [Bldg. Use 1 - Fire Station] (b)	31	---	---	0.460	0.460
Door 4: Insulated Metal, Swinging, [Bldg. Use 1 - Fire Station]	42	---	---	0.600	0.610

Project Title: Rockdale County Fire Station 10  
 Data filename: C:\Users\bakert\Desktop\121003800 COMCHECK.cck  
 Report date: 06/27/22  
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Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor <sup>(a)</sup>
<b>SOUTH</b>					
Exterior Wall 1: Concrete Block:8", Partially Grouted, Cells Empty, Medium Density, Furring: None, [Bldg. Use 1 - Fire Station]	1200	---	7.6	0.099	0.123
Door 1: Glass (> 50% glazing):Metal Frame, Entrance Door, Perf. Specs.: Product ID TBD, SHGC 0.25, [Bldg. Use 1 - Fire Station] (b)	552	---	---	0.460	0.770
Exterior Wall 2: Metal Building Wall, Single Layer Mineral Fiber (compressed at girt), [Bldg. Use 1 - Fire Station]	550	13.0	7.5	0.073	0.079
Window 1: Metal Frame with Thermal Break:Fixed, Perf. Specs.: Product ID TBD, SHGC 0.25, [Bldg. Use 1 - Fire Station] (b)	31	---	---	0.460	0.460
Door 2: Insulated Metal, Swinging, [Bldg. Use 1 - Fire Station]	21	---	---	0.600	0.610
Exterior Wall 3: Metal Building Wall, Single Layer Mineral Fiber (compressed at girt), [Bldg. Use 1 - Fire Station]	550	13.0	7.5	0.073	0.079
Window 2: Metal Frame with Thermal Break:Fixed, Perf. Specs.: Product ID TBD, SHGC 0.25, [Bldg. Use 1 - Fire Station] (b)	31	---	---	0.460	0.460
Door 3: Insulated Metal, Swinging, [Bldg. Use 1 - Fire Station]	21	---	---	0.600	0.610
<b>WEST</b>					
Exterior Wall 5: Metal Building Wall, Single Layer Mineral Fiber (compressed at girt), [Bldg. Use 1 - Fire Station]	834	13.0	7.5	0.073	0.079
Window 4: Metal Frame with Thermal Break:Fixed, Perf. Specs.: Product ID TBD, SHGC 0.25, [Bldg. Use 1 - Fire Station] (b)	124	---	---	0.460	0.460

- (a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
- (b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.
- (c) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.
- (d) Thermal spacer block with minimum R-3.5 must be installed above the purlin/batt, and the roof deck secured to the purlins.
- (e) High albedo roof requirement options: 1) 3-year aged solar reflectance >= 0.55 thermal emittance >= 0.75, 2) 3-year aged solar reflectance index >= 64.0, 3) Initial year aged solar reflectance >= 0.70 thermal emittance >= 0.75, 4) Initial year aged solar reflectance index >= 82.0.

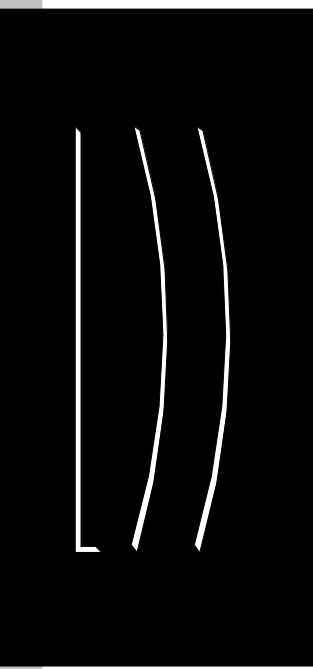
Envelope PASSES: Design 9% better than code

## Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

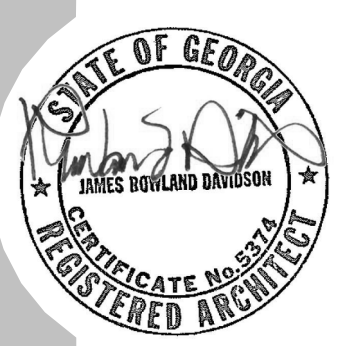
Project Title: Rockdale County Fire Station 10  
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 Report date: 06/27/22  
 Page 2 of 10



Lyman Davidson Dooley, Inc.  
 1640 Powers Ferry Road Building One Marietta, GA 30067  
 770.850.8494 f 770.956.9030 f  
 lddi-architects.com

## REVISIONS

No.	Description



NEW CONSTRUCTION  
 ROCKDALE FIRE STATION 10  
 ROCKDALE, GEORGIA

ROCKDALE FIRE STATION 10  
 3130 GA Hwy, 138 Conyers, GA 30013

ROCKDALE CO. FIRE DEPT.  
 Fire Station No. 7  
 1496 Rockbridge Road Conyers, GA 30012

TITLE COMCHECK

STATUS Issue for Permit

JOB 121038.00

QC Checker

DRAWN Author

SHEET G004

DATE 06/22/22



STATEMENT OF SPECIAL INSPECTIONS

PROJECT: Rockdale Fire Station 10
LOCATION: 3130 GA Hwy. 138, Conyers, Georgia 30013
PERMIT APPLICANT: Rockdale County Fire Department
APPLICANT'S ADDRESS: 1496 Rockbridge Road, Conyers, GA 30012
ARCHITECT OF RECORD: Rowland Davidson - Lyman Davidson Dooley
STRUCTURAL ENGINEER OF RECORD: David Harrell - Harrell Kane Structural Engineers, Inc.
MECHANICAL ENGINEER OF RECORD: Daniel Hubbard - Westside Engineering
ELECTRICAL ENGINEER OF RECORD: John Williams - Westside Engineering
REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE: Rowland Davidson

This Statement of Special Inspections is submitted in accordance with Section 1704.3 of the 2018 International Building Code. It includes a Schedule of Special Inspection Services applicable to the above-referenced Project as well as the identity of the individuals, agencies, or firms intended to be retained for conducting these inspections.

Are Special Inspections for Seismic Resistance included in the Statement of Special Inspections? Yes No
Are Special Inspections for Wind Resistance included in the Statement of Special Inspections? Yes No

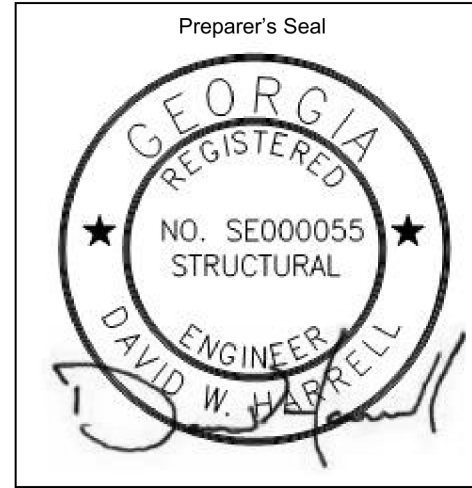
The Special Inspector(s) shall keep records of all inspections and shall furnish interim inspection reports to the Building Official and to the Registered Design Professional in Responsible Charge at a frequency agreed upon by the Design Professional and the Building Official prior to the start of work.

Frequency of interim report submittals to the Registered Design Professional in Responsible Charge: Weekly Bi-Weekly Monthly Other, specify:

The Special Inspection program does not relieve the Contractor of the responsibility to comply with the Contract Documents. Jobsite safety and means and methods of construction are solely the responsibility of the Contractor.

Statement of Special Inspections Prepared by:

David Harrell
Type or print name
Signature Date 06/21/22



Building Official's Acceptance:

Signature Date
Permit Number:

Frequency of interim report submittals to the Building Official: Monthly Bi-Monthly Upon Completion Other, specify:

Special Inspections for Seismic Resistance

See the Schedule of Special Inspections for inspection and testing requirements

Seismic Design Category: C

Special Inspections for Seismic Resistance Required (Yes/No): NO
(not required per IBC 2018 section 1705.12.1.1, exception #1)

Description of seismic force-resisting system subject to special inspection and testing for seismic resistance:
(Where required per IBC Sections 1705.12.1, 1705.12.2, and 1705.12.3) (Special inspections for seismic resistance of structural steel, where required, shall be in accordance with AISC 341)

N/A

Description of designated seismic systems subject to special inspection and testing for seismic resistance:
(Required for architectural, electrical and mechanical systems and their components that require design in accordance with Chapter 13 of ASCE 7, have a component importance factor, Ip, greater than one and are in Seismic Design Categories C, D, E or F.)

N/A

Description of additional seismic systems and components requiring special inspections:
(Required for systems noted in IBC Section 1705.12.5, 1705.12.6, 1705.12.7, and 1705.12.8.)

N/A

Description of additional seismic systems and components requiring testing:
(Where required per IBC Section 1705.13)

N/A

Statement of Responsibility:
Each contractor responsible for the construction or fabrication of a system or component described above must submit a Statement of Responsibility.

SCHEDULE OF SPECIAL INSPECTIONS SERVICES table with columns: PROJECT, MATERIAL / ACTIVITY, SERVICE, Y/N, EXTENT, AGENT\*, DATE COMPLETED. Includes items for 1705.1.1 Special Cases, 1705.2.1 Structural Steel Construction, 1705.2.2 Cold-Formed Steel Deck, and 1705.2.3 Open-Web Steel Joists and Joist Girders.

Special Inspections for Wind Resistance

See the Schedule of Special Inspections for inspection and testing requirements

Allowable Stress Design Wind Speed, Vasd: 90 m.p.h.

Wind Exposure Category: C

Special Inspection for Wind Resistance Required (Yes/No): No
(Required in wind exposure Category B, where the allowable stress design wind speed, Vasd, is 120 miles per hour or greater. Required in wind exposure Category C or D, where the allowable stress design wind speed, Vasd, is 110 miles per hour or greater.)

Description of structural wood and cold-formed steel light frame construction main windforce-resisting system subject to special inspections for wind resistance:
(Required for systems noted in IBC Section 1705.11.1 and 1705.11.2.)

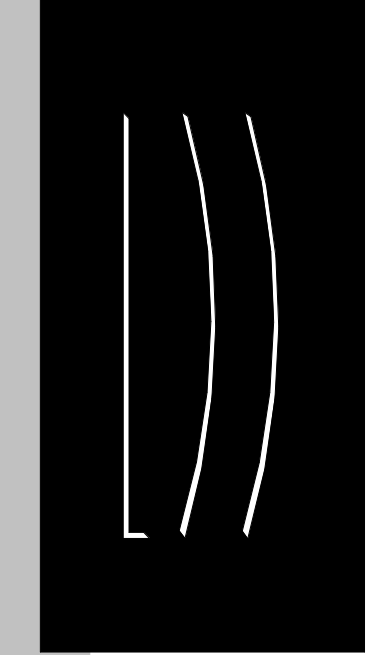
N/A

Description of windforce-resisting components subject to special inspections for wind resistance:
(Required for systems and components noted in IBC Section 1705.11.3)

N/A

Statement of Responsibility:
Each contractor responsible for the construction or fabrication of a system or component described above must submit a Statement of Responsibility.

SCHEDULE OF SPECIAL INSPECTIONS SERVICES table with columns: PROJECT, MATERIAL / ACTIVITY, SERVICE, Y/N, EXTENT, AGENT\*, DATE COMPLETED. Includes items for 1705.1.1 Special Cases, 1705.2.1 Structural Steel Construction, 1705.2.2 Cold-Formed Steel Deck, and 1705.2.3 Open-Web Steel Joists and Joist Girders.

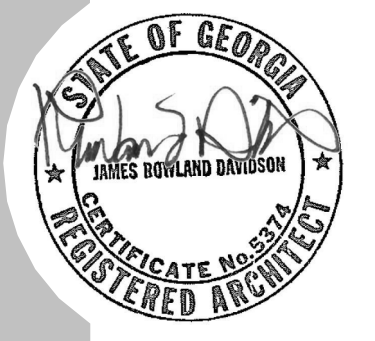


Lyman Davidson Dooley, Inc.

1648 Powers Ferry Road
Building One
Marietta, GA 30067
770.850.8494
770.956.9030
lddi-architects.com

REVISIONS

Table with columns for revision number, description, and date.



NEW CONSTRUCTION
ROCKDALE FIRE STATION 10
ROCKDALE, GEORGIA

ROCKDALE FIRE STATION 10
3130 GA Hwy. 138
Conyers, GA 30013

ROCKDALE CO. FIRE DEPT.
Fire Station No. 7
1496 Rockbridge Road
Conyers, GA 30012

TITLE SPECIAL INSPECTIONS

STATUS Issue for Permit

JOB 121038.00

QC Checker

DRAWN Author

SHEET G005

DATE 06/22/22

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SCHEDULE OF SPECIAL INSPECTIONS SERVICES					
PROJECT Rockdale Fire Station 10 - Conyers, GA					
MATERIAL / ACTIVITY	SERVICE	APPLICABLE TO THIS PROJECT			
		Y/N	EXTENT	AGENT*	DATE COMPLETED
6. a. Prior to placement, fabricate specimens for strength tests, fresh concrete sampling, perform slump or slump flow, and air content density tests, and determine temperature of concrete.	Shop (3) and field inspection	Y	Continuous	1	
6. b. Verify that concrete specimens for strength tests are maintained in the required initial curing and laboratory during environment, and that the maximum and minimum temperatures during the initial curing period are reported.	Shop (3) and field inspection	Y	Continuous	1	
7. Inspection of concrete and shotcrete placement for proper application techniques	Shop (3) and field inspection	Y	Continuous	1	
8. Verify maintenance of specified curing temperatures and techniques	Shop (3) and field inspection	Y	Periodic	1	
9. Inspection of prestressed concrete:	Shop (3) and field inspection				
a. Application of prestressing force		N	Continuous		
b. Grouting of bonded prestressing tendons		N	Continuous		
10. Inspect erection of precast concrete members		N	Periodic		
11. Verification of in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs	Review field testing and laboratory reports	N	Periodic		
12. Inspection of formwork for shape, lines, location and dimensions	Field inspection	N	Periodic		
13. Concrete strength testing and verification of compliance with construction documents	Field testing and review of laboratory reports	Y	Periodic	1	
<b>1705.4 Masonry Construction</b>					
<b>MINIMUM VERIFICATION REQUIREMENTS</b>					
<b>(A) Level 1, 2 and 3 Quality Assurance:</b>					
1. Prior to construction, verification of compliance of submittals	Submittal Review	Y	Prior to Construction	1	
<b>(B) Level 2 &amp; 3 Quality Assurance:</b>					
1. Prior to construction verification of fm and F <sub>ACI</sub> except where specifically exempted by the code	Testing by unit strength method or prism test method	Y	Prior to Construction	1	
2. During construction, verification of Slump Flow and Visual Stability Index (VSI) when self-consolidating grout is delivered to project site.	Testing by unit strength method or prism test method	Y	Periodic	1	
<b>(C) Level 3 Quality Assurance:</b>					
1. During construction, verification of fm and F <sub>ACI</sub> for every 5,000 SF	Testing by unit strength method or prism test method	N	Periodic		
2. During construction, verification of proportions of materials as delivered to the project site for premixed or preblended mortar, prestressing grout, and grout other than self-consolidating grout.	Field inspection	N	Periodic		
<b>MINIMUM SPECIAL INSPECTION REQUIREMENTS</b>					
<b>(D) Levels 2 and 3 Quality Assurance:</b>					
1. As masonry construction begins, verify that the following are in compliance:	Field inspection	Y	Periodic	1	

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8/1/2022

SCHEDULE OF SPECIAL INSPECTIONS SERVICES					
PROJECT Rockdale Fire Station 10 - Conyers, GA					
MATERIAL / ACTIVITY	SERVICE	APPLICABLE TO THIS PROJECT			
		Y/N	EXTENT	AGENT*	DATE COMPLETED
b. Grade and size of prestressing tendons and anchorages	Field Inspection	N	Periodic		
c. Grade, type, and size of reinforcement, anchor bolts, and prestressing tendons and anchorages	Field Inspection	Y	Periodic	1	
d. Prestressing technique	Field Inspection	N	Periodic		
e. Properties of thin-bed mortar for AAC masonry	Field Inspection	N	Level 2 - Continuous <sup>(1)</sup> Level 2 - Periodic <sup>(2)</sup>		
(1) Required for the first 5,000 square feet (2) Required after the first 5,000 square feet			N N	Level 3 - Continuous Level 3 - Continuous	
f. Sample panel construction	Field Inspection	N	Level 3 - Continuous		
<b>2. Prior to grouting, verify that the following are in compliance:</b>					
a. Grout space	Field Inspection	Y	Level 2 - Periodic Level 3 - Continuous	1	
b. Placement of prestressing tendons and anchorages	Field Inspection	N	Periodic		
c. Placement of reinforcement, connectors, and anchor bolts	Field Inspection	Y	Level 2 - Periodic Level 3 - Continuous	1	
d. Proportions of site-prepared grout and prestressing grout for bonded tendons	Field Inspection	Y	Periodic	1	
<b>3. Verify compliance of the following during construction:</b>					
a. Materials and procedures with the approved submittals	Field Inspection	Y	Periodic	1	
b. Placement of masonry units and mortar joint construction	Field Inspection	Y	Periodic	1	
c. Size and location of structural members	Field Inspection	Y	Periodic	1	
d. Type, size, location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction	Field Inspection	N	Level 3 - Continuous		
e. Welding of reinforcement	Field Inspection	N	Continuous		
f. Preparation, construction, and protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F)	Field Inspection	Y	Periodic	1	
g. Application and measurement of prestressing force	Field testing	N	Continuous		
h. Placement of grout and prestressing grout for bonded tendons in compliance	Field Inspection	N	Continuous		
i. Placement of AAC masonry units and construction of thin-bed mortar joints	Field Inspection	N	Level 2 - Continuous <sup>(1)</sup> Level 2 - Periodic <sup>(2)</sup>		
(1) Required for the first 5,000 square feet (2) Required after the first 5,000 square feet			N N	Level 3 - Continuous Level 3 - Continuous	
4. Observe preparation of grout specimens, mortar specimens, and/or prisms	Field inspection	Y	Level 2 - Periodic Level 3 - Continuous	1	

ACEC/SEAOG SI GL 01 - 19 w/ 2022 GA Amendments

8/1/2022

SCHEDULE OF SPECIAL INSPECTIONS SERVICES					
PROJECT Rockdale Fire Station 10 - Conyers, GA					
MATERIAL / ACTIVITY	SERVICE	APPLICABLE TO THIS PROJECT			
		Y/N	EXTENT	AGENT*	DATE COMPLETED
<b>1705.5 Wood Construction</b>					
1. For prefabricated wood structural elements, inspection of the fabrication process and assemblies in accordance with Section 1704.2.5.	In-plant review (3)	N	Periodic		
2. For high-load diaphragms, verify grade and thickness of structural panel sheathing agree with approved building plans.	Field inspection	N	Periodic		
3. For high-load diaphragms, verify nominal size of framing members at adjoining panel edges, nail or staple diameter and length, number of fastener lines, and that spacing between fasteners in each line and at edge margins agree with approved building plans.	Field inspection	N	Periodic		
4. Metal-plate-connected wood trusses:					
a. Verification that permanent individual truss member restraining has been installed in accordance with the approved truss submittal package when the truss height is greater than or equal to 60".	Field inspection	N	Periodic		
b. For trusses spanning 60 feet or greater, verify temporary and permanent restraining are installed in accordance with the approved truss submittal package.	Field inspection	N	Periodic		
<b>1705.5.3 Mass Timber Construction</b>					
1. Inspection of anchorage and connection of mass timber construction to timber deep foundation systems.	Field inspection	N	Periodic		
2. Inspect erection of mass timber construction.	Field inspection	N	Periodic		
3. Inspection of connections where installation methods are required to meet design loads.					
a. Threaded Fasteners					
1) Verify use of proper installation equipment	Field inspection	N	Periodic		
2) Verify use of pre-drilled holes where required.	Field inspection	N	Periodic		
3) Inspect screws, including diameter, length, head type, spacing, installation angle, and depth.	Field inspection	N	Periodic		
b. Adhesive anchors installed in horizontal or upwardly inclined orientation to resist sustained tension loads.	Field inspection	N	Continuous		
c. Other adhesive anchors	Field inspection	N	Periodic		
d. Bolted connectors	Field inspection	N	Periodic		
e. Concealed connectors	Field inspection	N	Periodic		

ACEC/SEAOG SI GL 01 - 19 w/ 2022 GA Amendments

8/1/2022

SCHEDULE OF SPECIAL INSPECTIONS SERVICES					
PROJECT Rockdale Fire Station 10 - Conyers, GA					
MATERIAL / ACTIVITY	SERVICE	APPLICABLE TO THIS PROJECT			
		Y/N	EXTENT	AGENT*	DATE COMPLETED
<b>1705.6 Soils</b>					
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	Field inspection	Y	Periodic	1	
2. Verify excavations are extended to proper depth and have reached proper material.	Field inspection	Y	Periodic	1	
3. Perform classification and testing of compacted fill materials.	Field inspection	Y	Periodic	1	
4. Verify use of proper materials, densities, and lift thicknesses during placement and compaction of compacted fill.	Field inspection	Y	Continuous	1	
5. Prior to placement of controlled fill, inspect subgrade and verify that site has been prepared properly.	Field inspection	Y	Periodic	1	
<b>1705.7 Driven Deep Foundations</b>					
1. Verify element materials, sizes and lengths comply with requirements	Field inspection	N	Continuous		
2. Determine capacities of test elements and conduct additional load tests, as required	Field inspection	N	Continuous		
3. Inspect driving operations and maintain complete and accurate records for each element	Field inspection	N	Continuous		
4. Verify placement locations and plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and document any damage to foundation element	Field inspection	N	Continuous		
5. For steel elements, perform additional inspections per Section 1705.2	See Section 1705.2	N	See Section 1705.2		
6. For concrete elements and concrete-filled elements, perform tests and additional inspections per Section 1705.3	See Section 1705.3	N	See Section 1705.3		
7. For specialty elements, perform additional inspections as determined by the registered design professional in responsible charge	Field inspection	N	In accordance with construction documents		
<b>1705.8 Cast-in-Place Deep Foundations</b>					
1. Inspect drilling operations and maintain complete and accurate records for each element	Field inspection	N	Continuous		
2. Verify placement locations and plumbness, confirm element diameters, bell diameters (if applicable), lengths, embedment into bedrock (if applicable) and adequate end-bearing stress capacity. Record concrete or grout volumes	Field inspection	N	Continuous		
3. For concrete elements, perform tests and additional inspections in accordance with Section 1705.3	See Section 1705.3	N	See Section 1705.3		
<b>1705.9 Helical Pile Foundations</b>					
Verify installation equipment, pile dimensions, tip elevations, final depth, final installation torque and other installation data as required by construction documents.	Field inspection	N	Continuous		

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SCHEDULE OF SPECIAL INSPECTIONS SERVICES					
PROJECT Rockdale Fire Station 10 - Conyers, GA					
MATERIAL / ACTIVITY	SERVICE	APPLICABLE TO THIS PROJECT			
		Y/N	EXTENT	AGENT*	DATE COMPLETED
<b>1705.10 Fabricated Items</b>					
1. List of fabricated items requiring special inspection during fabrication:	Shop inspection		As noted in each applicable shop activity		
a) Pre-Engineered Roof Trusses	Shop inspection (3)	N	Periodic		
2. List of fabricated items to be fabricated on the premises of a fabricator approved to perform such work without special inspection (including name of approved agency providing periodic auditing):		N			
<b>1705.11.1 Structural Wood Special Inspections For Wind Resistance</b>					
1. Inspection of field gluing operations of elements of the main windforce-resisting system	Field inspection	N	Continuous		
2. Inspection of nailing, bolting, anchoring and other fastening of components within the main windforce-resisting system, including wood shear walls, wood diaphragms, drag struts, bracing and hold-downs.	Shop (3) and field inspection	N	Periodic		
<b>1705.11.2 Cold-Formed Steel Special Inspections For Wind Resistance</b>					
1. Inspection during welding operations of elements of the main windforce-resisting system	Shop (3) and field inspection	N	Periodic		
2. Inspection of screw attachment, bolting, anchoring and other fastening of components within the main windforce-resisting system, including shear walls, braces, diaphragms, collectors (drag struts) and hold-downs.	Shop (3) and field inspection	N	Periodic		
<b>1705.11.3 Wind-resisting Components</b>					
1. Roof covering, roof deck and roof framing connections	Shop (3) and field inspection	N	Periodic		
2. Exterior wall covering and wall connections to roof and floor diaphragms	Shop (3) and field inspection	N	Periodic		
<b>1705.12.1 Structural Steel Special Inspections for Seismic Resistance</b>					
1. Seismic force-resisting systems in SDC B, C, D, E, or F.	Shop (3) and field inspection	N	In accordance with AISCS 341		
2. Structural steel elements in SDC B, C, D, E, or F other than those in Item 1, including struts, collectors, chords and foundation elements.	Shop (3) and field inspection	N	In accordance with AISCS 341		
<b>1705.12.2 Structural Wood Special Inspections for Seismic Resistance</b>					
1. Field gluing operations of elements of the seismic-force-resisting system for SDC C, D, E or F.	Field inspection	N	Continuous		
2. Nailing, bolting, anchoring and other fastening of components within the seismic-force-resisting system, including wood shear walls, wood diaphragms, drag struts, shear panels and hold-downs for SDC C, D, E or F.	Shop (3) and field inspection	N	Periodic		
<b>1705.12.3 Cold-Formed Steel Light-Frame Construction Special Inspections for Seismic Resistance</b>					
1. During welding operations of elements of the seismic-force-resisting system for SDC C, D, E or F.	Shop (3) and field inspection	N	Periodic		

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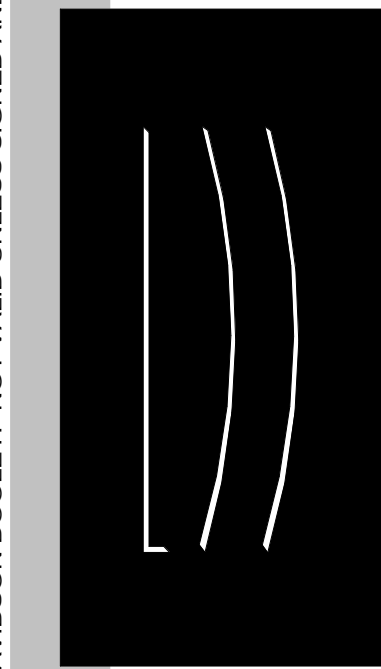
8/1/2022

SCHEDULE OF SPECIAL INSPECTIONS SERVICES					
PROJECT Rockdale Fire Station 10 - Conyers, GA					
MATERIAL / ACTIVITY	SERVICE	APPLICABLE TO THIS PROJECT			
		Y/N	EXTENT	AGENT*	DATE COMPLETED
2. Screw attachment, bolting, anchoring and other fastening of components within the seismic-force-resisting system including shear walls, braces, diaphragms, collectors (drag struts) and hold-downs for SDC C, D, E or F.	Shop (3) and field inspection	N	Periodic		

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8/1/2022

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Lyman Davidson Dooley, Inc.  
1640 Powers Ferry Road  
Building One  
Marietta, GA 30067  
770.850.8494  
770.956.9030  
liddi-architects.com

REVISIONS



NEW CONSTRUCTION  
**ROCKDALE FIRE STATION 10**  
ROCKDALE, GEORGIA

**ROCKDALE FIRE STATION 10**  
3130 GA Hwy, 138  
Conyers, GA 30013

**ROCKDALE CO. FIRE DEPT.**  
Fire Station No. 7  
1496 Rockbridge Road  
Conyers, GA 30012

TITLE SPECIAL INSPECTIONS  
STATUS Issue for Permit  
JOB 121038.00  
QC Checker  
DRAWN Author  
SHEET **G006**  
DATE 06/22/22







GENERAL NOTES

ABBREVIATIONS

A	ABV ADD'L APRX	ABOVE ADDITIONAL APPROXIMATE
B	BLW BTWN BLKG BOTT B/O BRIDG BLDG	BELOW BETWEEN BLOCKING BOTTOM BOTTOM OF BRIDGING BUILDING
C	CL, C/L CONC CONT	CENTER LINE CONCRETE CONTINUOUS
D	DIA DIM	DIAMETER DIMENSION
E	EA EE	EACH EACH END
EN	EDGE NAIL (E)	EXISTING
F	FNDN	FOUNDATION
G	GC	GENERAL CONTRACTOR
H	HDR HI HK HORIZ	HEADER HIGH HOOK HORIZONTAL
L	LO	LOW
M	MAX MIN	MAXIMUM MINIMUM
O	OC	ON CENTER
P	PCF PEMB PSF PL, P/L	POUNDS PER CUBIC FOOT PRE-ENGINEERED METAL BLDG POUNDS PER SQUARE FOOT PROPERTY LINE
R	REIN REQ'D	REINFORCING, REINFORCEMENT REQUIRED
S	SAD SIM SQ STAG'D SB STIFF	SEE ARCHITECTURAL DRAWINGS SIMILAR SQUARE STAGGERED STEEL BEAM STIFFENER
T	T/O TYP	TOP OF TYPICAL
U	UNO.	UNLESS NOTED OTHERWISE
V	VERT	VERTICAL
W	W	WITH

100 GENERAL:

- 101 THE CONTRACT DOCUMENTS SHALL INCLUDE THE FULL SET OF ISSUED FOR CONSTRUCTION DRAWINGS, SPECIFICATIONS, AND CIVIL DRAWINGS. THE GENERAL CONTRACTOR AND THEIR SUB-CONTRACTORS SHALL REVIEW THE COMPLETE SET OF CONTRACT DOCUMENTS AND NOTIFY THE DESIGN TEAM OF ANY CONFLICTS BETWEEN DISCIPLINES PRIOR TO BEGINNING WORK.
- 102 ALL CONSTRUCTION SHALL CONFORM TO THE INTERNATIONAL BUILDING CODE, 2018 EDITION WITH LATEST GEORGIA AMENDMENTS, AND ASCE STANDARD 7-16 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES. REFERENCES TO OTHER STANDARD SPECIFICATIONS OR CODES SHALL MEAN THE LATEST STANDARD OR CODE ADOPTED.
- 103 DRAWINGS SHOW TYPICAL AND CERTAIN SPECIFIC CONDITIONS ONLY. FOR DETAILS NOT SPECIFICALLY SHOWN, PROVIDE DETAILS SIMILAR TO THOSE SHOWN.
- 104 VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS BEFORE STARTING WORK. NOTIFY STRUCTURAL ENGINEER OF ANY DISCREPANCY.
- 105 NOTIFY THE STRUCTURAL ENGINEER IN WRITING OF CONDITIONS ENCOUNTERED IN THE FIELD CONTRADICTORY TO THOSE SHOWN ON THE STRUCTURAL CONTRACT DOCUMENTS.
- 106 THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC.
- 107 COORDINATE STRUCTURAL CONTRACT DOCUMENTS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL. NOTIFY STRUCTURAL ENGINEER OF ANY CONFLICT AND/OR OMISSION.
- 108 COORDINATE AND VERIFY FLOOR AND ROOF OPENING SIZES AND LOCATIONS WITH ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS. FOR ADDITIONAL OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS SEE ARCHITECTURAL AND MECHANICAL DRAWINGS.
- 109 FOR DIMENSIONS NOT SHOWN SEE ARCHITECTURAL DRAWINGS.
- 110 REVIEW OF SUBMITTALS AND/OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL TO THE STRUCTURAL ENGINEER. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. CONTRACTOR IS ALSO RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.
- 111 DESIGN LOADS:
- |  |                                    |
|--|------------------------------------|
| <b>GRAVITY LOADS:</b>  |                                    |
| METAL BLDG DEAD LOAD   | 6 PSF                              |
| ADD'L COLLATERAL DEAD LOAD   | 5 PSF                              |
| ROOF LIVE LOAD   | 20 PSF                             |
| <b>WIND DESIGN CRITERIA:</b>   |                                    |
| BASIC WIND SPEED (3 SECOND GUST)   | 115 MPH                            |
| BUILDING RISK CATEGORY   | III                                |
| WIND EXPOSURE CATEGORY   | C                                  |
| INTERNAL PRESSURE COEFFICIENT  | 0.18                               |
| <b>SEISMIC DESIGN CRITERIA:</b>  |                                    |
| BUILDING SEISMIC USE GROUP   | III                                |
| SEISMIC IMPORTANCE FACTOR  | I <sub>s</sub> =1.5                |
| MAPPED SPECTRAL RESPONSE ACCELERATION, 0.2 SECONDS   | S <sub>s</sub> =0.175 g            |
| MAPPED SPECTRAL RESPONSE ACCELERATION, 1.0 SECONDS   | S <sub>1</sub> =0.081 g            |
| DESIGN SPECTRAL RESPONSE ACCELERATION, 0.2 SECONDS   | S <sub>ds</sub> =0.181 g           |
| DESIGN SPECTRAL RESPONSE ACCELERATION, 1.0 SECONDS   | S <sub>d1</sub> =0.140 g           |
| SITE CLASS   | D (PRESUMED)                       |
| SEISMIC DESIGN CATEGORY  | C                                  |
| ANALYSIS PROCEDURE:  | EQUIVALENT LATERAL FORCE PROCEDURE |
| SEE PRE-ENGINEERED METAL BUILDING DRAWINGS FOR FRAMING SYSTEMS, RESPONSE MODIFICATION COEFFICIENT & DEFLECTION AMPLIFICATION FACTOR. |                                    |
| <b>SNOW DESIGN CRITERIA:</b>   |                                    |
| GROUND SNOW LOAD   | P <sub>g</sub> = 5 PSF             |
| SLOPED ROOF SNOW LOAD  | P <sub>s</sub> = 10 PSF            |

- 112 FIELD VERIFY ALL EXISTING ABOVE AND BELOW GROUND CONDITIONS PRIOR TO FABRICATION AND CONSTRUCTION.
- 113 THE STRUCTURAL DESIGN OF THE BUILDING IS BASED ON THE FULL INTERACTION OF ITS COMPONENT PARTS, WITH NO PROVISION FOR CONDITIONS OCCURRING DURING CONSTRUCTION THEREFORE THE CONTRACTOR SHALL PROVIDE ADEQUATE BRACING DURING CONSTRUCTION. PROVIDE TEMPORARY BRACING OF STRUCTURAL FRAMING UNTIL ALL PERMANENT BRACING, WALL SHEATHING, AND FLOOR AND ROOF DECKS (DIAPHRAGMS) ARE COMPLETELY INSTALLED AND ALL TRUSS, TRUSS ASSEMBLY AND POST/BEAM CONNECTIONS ARE COMPLETED.

200 FOUNDATIONS AND SLAB-ON-GROUND

- 201 THE DESIGN OF CONCRETE FOUNDATIONS IS BASED ON A MINIMUM ALLOWABLE NET SOIL BEARING PRESSURE OF 2,000 PSF, AS PERMITTED BY CODE. SOIL CONDITIONS AND BEARING CAPACITY SHALL BE VERIFIED IN FIELD BY A GEOTECHNICAL ENGINEER PRIOR TO THE PLACEMENT OF FOUNDATIONS.
- 202 CONTRACTOR SHALL HIRE A LICENSED GEOTECHNICAL ENGINEER TO INSPECT THE CONDITION AND ADEQUACY OF ALL SUB GRADES, FILLS AND BACK FILLS BEFORE PLACEMENT OF FOUNDATIONS, FOOTINGS, SLABS, WALLS, FILLS, BACK FILLS, ETC.
- 203 SIDES OF FOUNDATIONS SHALL BE FORMED UNLESS CONDITIONS PERMIT EARTH FORMING. FOUNDATIONS POURED AGAINST THE EARTH REQUIRE THE FOLLOWING PRECAUTIONS: SLOPE SIDES OF EXCAVATIONS AS APPROVED BY GEOTECHNICAL ENGINEER AND CLEAN UP SLOUGHING BEFORE AND DURING CONCRETE PLACEMENT.
- 204 WHERE FOOTING STEPS ARE NECESSARY, THEY SHALL BE NO STEEPER THAN ONE VERTICAL TO TWO HORIZONTAL, UNLESS NOTED.
- 205 DO NOT BACKFILL AGAINST FOUNDATION WALLS UNTIL THE WALL HAS REACHED 65% OF DESIGN STRENGTH AND TEMPORARY WALL BRACING HAS BEEN PLACED.
- 206 SEE PLANS FOR SLAB ON GROUND INFORMATION, INCLUDING THICKNESS AND REINFORCING REQUIREMENTS.
- 207 SOIL BELOW INTERIOR CONCRETE SLABS ON GRADE AND ANY FILL WITHIN 10'-0" OF BUILDING LIMIT SHALL BE COMPACTED TO 95% OF THE SOIL'S STANDARD PROCTOR MAXIMUM DRY DENSITY, AS DETERMINED BY ASTM STANDARD D-698. THE UPPER FOOT OF FILL WHICH WILL SUPPORT PAVEMENTS OR SLABS SHOULD BE COMPACTED TO AT LEAST 98% OF THE SOIL'S STANDARD PROCTOR MAXIMUM DRY DENSITY. ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR CONTROLLED FILL.

300 REINFORCED CONCRETE

- 301 ALL CONCRETE WORK SHALL CONFORM TO ACI 301-10, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS. DESIGN IS BASED ON ACI 318-11, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
- 302 UNLESS NOTED OTHERWISE, ALL CONCRETE SHALL BE NORMAL WEIGHT AND HAVE THE FOLLOWING MINIMUM 28 DAY (F<sub>c</sub>) COMPRESSIVE STRENGTHS:
- |                 |                            |
|-----------------|----------------------------|
| FOUNDATIONS     | F <sub>c</sub> = 3,000 PSI |
| SLABS ON GROUND | F <sub>c</sub> = 4,000 PSI |
- 303 THE PROPOSED MATERIALS AND MIX DESIGNS SHALL BE FULLY DOCUMENTED AND REVIEWED BY THE CONTRACTOR'S TESTING LABORATORY AND THE STRUCTURAL ENGINEER, THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR OBTAINING THE REQUIRED DESIGN STRENGTH.
- 304 USE OF CALCIUM CHLORIDE, CHLORIDE IONS, OR OTHER SALTS IN CONCRETE IS NOT PERMITTED.
- 305 HORIZONTAL CONSTRUCTION JOINTS ARE PERMITTED ONLY WHERE INDICATED. THE LOCATION OF VERTICAL CONSTRUCTION JOINTS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. CONSTRUCTION JOINTS SHALL BE THOROUGHLY ROUGHENED BY MECHANICAL MEANS AND CLEANED.
- 306 CHAMFER OR ROUND ALL EXPOSED CORNERS MINIMUM 3/4".
- 307 DETAIL CONCRETE REINFORCEMENT AND ACCESSORIES IN ACCORDANCE WITH ACI DETAILING MANUAL, 2010 EDITION. SUBMIT SHOP DRAWINGS FOR APPROVAL, SHOWING ALL FABRICATION DIMENSIONS AND LOCATIONS FOR PLACING REINFORCING STEEL AND ACCESSORIES. DO NOT BEGIN FABRICATION UNTIL SHOP DRAWINGS ARE COMPLETED AND REVIEWED.
- 308 REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60.
- 309 DEFORMED BAR ANCHORS TO BE WELDED SHALL CONFORM TO ASTM A 496. STEEL REINFORCING TO BE WELDED SHALL CONFORM TO ASTM A 106.
- 310 WELDED WIRE FABRIC (MESH) SHALL CONFORM TO ASTM A185 AND SHALL BE PROVIDED IN FLAT SHEETS ONLY (ROLLS NOT PERMITTED). LAP ALL END AND CROSS SIDE LAPS ONE CROSS WIRE PLUS 2".
- 311 TIE ALL REINFORCING STEEL AND EMBEDMENTS SECURELY IN PLACE PRIOR TO PLACING CONCRETE. PROVIDE SUFFICIENT SUPPORTS TO MAINTAIN THE POSITION OF REINFORCEMENT WITHIN SPECIFIED TOLERANCES DURING ALL CONSTRUCTION ACTIVITIES. "STICKING" DOVELS INTO WET CONCRETE IS NOT PERMITTED.
- 312 PROVIDE CONTINUOUS REINFORCEMENT WHERE POSSIBLE. SPLICE ONLY AS SHOWN OR APPROVED. USE TENSION SPLICE (CLASS "B") UNLESS NOTED OTHERWISE.
- 313 REINFORCING STEEL SHALL HAVE THE FOLLOWING CONCRETE COVER UNLESS NOTED OTHERWISE:
- |  |        |
|--|--------|
| CONCRETE CAST AGAINST EARTH (NOT FORMED)     | 3"     |
| FORMED CONCRETE EXPOSED TO EARTH OR WEATHER: |        |
| # THROUGH #8 BARS                            | 2"     |
| #5 BARS AND SMALLER                          | 1-1/2" |
| CONCRETE NOT EXPOSED TO EARTH OR WEATHER:    |        |
| SLABS AND WALLS                              | 3/4"   |
| BEAMS AND PIERS; TIES AND STIRRUPS           | 1 1/2" |
- 314 DO NOT PLACE PIPES OR DUCTS EXCEEDING ONE-THIRD THE CONCRETE THICKNESS WITHIN THE CONCRETE UNLESS SPECIFICALLY SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.
- 315 DO NOT WELD OR TACK WELD REINFORCING STEEL UNLESS APPROVED BY THE STRUCTURAL ENGINEER.
- 316 ALL REINFORCING STEEL PLACEMENT SHALL BE REVIEWED BY A REGISTERED STRUCTURAL ENGINEER, OR BY A REPRESENTATIVE RESPONSIBLE TO HIM (REF: ACI 318-10, SECTION 13.1).
- 317 PROVIDE FOR AN ALLOWANCE OF 1% OF REINFORCING BARS TO BE FABRICATED, AND PLACED DURING PROGRESS OF WORK AS MAY BE DIRECTED BY THE STRUCTURAL ENGINEER. IN ADDITION TO ALL THE STEEL INDICATED ON THE DRAWINGS. CREDIT ANY UNUSED QUANTITY AT THE END OF THE PROJECT TO THE OWNER.
- 318 CONCRETE TEST RESULTS SHALL BE AVAILABLE AT THE JOB SITE FOR REVIEW BY INSPECTOR.

400 MASONRY:

- 401 CONCRETE MASONRY DESIGN AND CONSTRUCTION SHALL CONFORM TO:
- BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY STRUCTURES ACI 530-08/ASCE 5-09/TMS 402-08.
  - SPECIFICATIONS FOR CONCRETE MASONRY CONSTRUCTION ACI 530.1-08/ASCE 6-08/TMS 602-08.
- 402 PROVIDE NORMAL WEIGHT, HOLLOW, LOAD-BEARING CONCRETE MASONRY UNITS (CMU) CONFORMING TO ASTM C90, GRADE N, TYPE I, UNLESS NOTED OTHERWISE.
- 403 PROVIDE CONCRETE MASONRY WITH MINIMUM COMPRESSIVE STRENGTH, f<sub>m</sub> = 1,500 PSI, CORRESPONDING TO UNIT STRENGTH OF 2,000 PSI ON NET CROSS-SECTIONAL AREA OF CMU DETERMINED IN ACCORDANCE WITH ASTM C140.
- 404 PROVIDE TYPE "S" MORTAR IN ACCORDANCE WITH ASTM C270, UNLESS NOTED OTHERWISE. MORTAR BED JOINTS SHALL NOT EXCEED 5/8 IN. THICKNESS.
- 405 PROVIDE GROUT FOR REINFORCED MASONRY IN ACCORDANCE WITH ASTM C676 WITH MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI UNLESS NOTED OTHERWISE.
- 406 PROVIDE HORIZONTAL JOINT REINFORCEMENT COMPLYING WITH ASTM A82, NO. 3 GAUGE OR HEAVIER, ZINC COATED, PLACED 16 INCHES ON CENTER UNLESS NOTED OTHERWISE.
- 407 LAY MASONRY UNITS IN RUNNING BOND UNLESS NOTED OTHERWISE.

500 COLD FORMED STEEL FRAMING

- 501 THE STEEL FRAMING PRODUCT DESCRIPTIONS AND NOMENCLATURES SHOWN HEREIN ARE NOT SPECIFIC TO ANY ONE MANUFACTURER. THE STRUCTURAL PROPERTIES USED HEREIN ARE BASED ON THE NAS-01 NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS, INCLUDING 2004 SUPPLEMENT, PROFILES AND STEEL GRADES ARE AS DEFINED BELOW.
- 502 MINIMUM MEMBER PROPERTIES, MECHANICAL PROPERTIES, BASE STEEL: UNLESS NOTED OTHERWISE, THE COLD FORMED FRAMING PRODUCTS SHALL BE MANUFACTURED FROM STEEL MEETING THE MINIMUM REQUIREMENTS OF THE FOLLOWING SPECIFICATIONS:
- 16, 14 AND 12 GAGE STUDS AND ACCESSORIES: GRADE 50, F<sub>y</sub> (MIN)=50 KSI (345 Mpa)
  - 20 AND 18 GAGE STUDS AND ACCESSORIES: GRADE 33, F<sub>y</sub> (MIN)=33 KSI (230 Mpa)
  - 20, 18, 16, 14 AND 12 GAGE TRACK: GRADE 33, F<sub>y</sub> (MIN)=33 KSI (230 Mpa)
  - ALL GALVANIZED STUDS, JOIST, TRACK, BRIDGING, AND ACCESSORIES SHALL BE FORMED FROM STEEL HAVING A GALVANIZED COATING MEETING THE REQUIREMENTS OF ASTM A653

500 COLD FORMED STEEL FRAMING, CONT'D

- 503 MINIMUM DELIVERED BASE STEEL THICKNESS SHALL NOT BE LESS THAN 95 PERCENT OF THE DESIGN THICKNESS.

GAGE	MIN. DEL. BASE STEEL THICKNESS INCHES (mm)	DESIGN THICKNESS INCHES (mm)	INDUSTRY STANDARD DESIGNATION
20	0.033 (0.838)	0.0346 (0.879)	33
18	0.043 (1.092)	0.0451 (1.146)	43
16	0.054 (1.372)	0.0566 (1.438)	54
14	0.068 (1.727)	0.0713 (1.811)	68
12	0.091 (2.464)	0.1011 (2.583)	91

- 504 PROFILE REQUIREMENTS: C-SHAPES SHALL BE FORMED WITH THE FOLLOWING MINIMUM RETURN LIP LENGTHS CORRESPONDING TO THE FLANGE WIDTHS SHOWN. THE MANUFACTURING TOLERANCE OF THE RETURN LIP DIMENSIONS SHALL BE - 1/16" (1.59mm), + 1/8" (3.18mm).

FLANGE WIDTH INCHES (mm)	RETURN LIP INCHES (mm)	INDUSTRY STANDARD DESIGNATION	SECTION DEPTH INCHES (mm)	INDUSTRY STD DESIGNATION
1-3/8 (34.9)	5/16 (19.4)	138	3-5/8 (92.1)	362
1-5/8 (41.3)	1/2 (12.7)	162	6 (152.4)	600
2 (50.8)	9/16 (14.3)	200	8 (203)	800
2-1/2 (63.5)	11/16 (17.5)	250	10 (254)	1000
			12 (305)	1200

- 505 MEMBER SPECIFICATIONS: STANDARD SPECIFICATION: ZZZ - S - NNN - YY  
EXAMPLE: 600 S162-43 DESIGNATES: STUD OR JOIST WITH 1-5/8 INCH FLANGES, 18 GAGE, AND 6 INCHES DEEP.

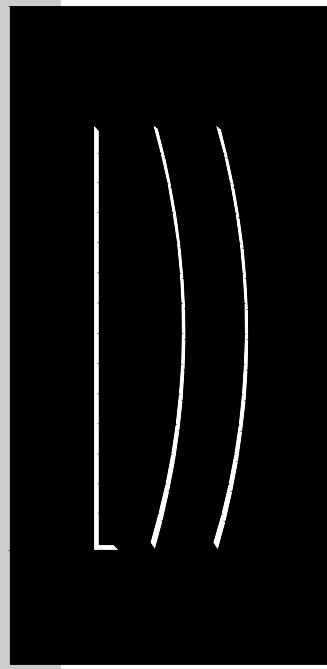
- ZZZ DESIGNATES THE DEPTH OF MEMBER IN 1/100TH INCHES  
S DESIGNATES THE SHAPE OF THE MEMBER. 'S' INDICATES A C SHAPED STUD OR JOIST MEMBER WITH RETURN LIP STIFFENERS AT THE FLANGES; 'T' INDICATES A C SHAPED TRACK MEMBER WITHOUT RETURN LIPS.  
NNN DESIGNATES FLANGE WIDTH MEASURED IN 1/100 INCH. (162 IS 1.62 INCHES OR 1-5/8 INCHES). (012 IS 0.50 INCHES OR 1/2 INCH)  
YY DESIGNATES MINIMUM BASE METAL THICKNESS IN MILS (0.043 INCHES = 43 MILS).

- 506 SEE DRAWINGS FOR STUD MEMBERS SIZES, GAUGES AND SPACING REQUIREMENTS.

- 507 BOTH STUD FLANGES MUST BE ATTACHED TO TOP AND BOTTOM TRACK WITH #3 x 5/8" LONG SELF-DRILLING WAFER HEAD SCREWS OR WELDMENT (UNLESS DEFLECTION TRACK IS INDICATED).
- 508 WALL PANELS MAY BE FABRICATED WITH WELDS OR SCREWS. FIELD WELDING OF MATERIAL LESS THAN 18 GA. SHALL NOT BE PERMITTED. WELDS SHALL BE PERFORMED BY OPERATORS QUALIFIED IN ACCORDANCE WITH SECTION 6.0 OF THE AMERICAN WELDING SOCIETY D13-98 STRUCTURAL WELDING CODE-SHEET STEEL.
- 509 STUDS SHALL HAVE FULL BEARING AGAINST INSIDE TRACK WEB PRIOR TO ATTACHMENT AT BOTH ENDS. NO CUTS ARE PERMITTED FOR LOAD BEARING STUDS AND TRACKS.
- 510 ALL WELDS SHALL BE TOUCHED UP WITH ZINC RICH PAINT.
- 511 ALL TRACK BUTT JOINTS, ABUTTING PIECES OF TRACK SHALL BE SECURELY ANCHORED TO A COMMON STRUCTURAL ELEMENT OR BE BUTT-WELDED OR SPliced TOGETHER.
- 512 A MINIMUM OF 10 INCHES OF UN-PUNCHED STEEL IS REQUIRED AT BOTH ENDS OF MEMBERS (NO PUNCHING HOLES OF ANY SIZE IS PERMITTED IN THESE 10 INCHES).
- 513 MECHANICAL BRIDGING SHALL BE SPACED AT NO MORE THAN 4'-0" CENTERS VERTICALLY AT APPROXIMATELY THIRD POINTS VERTICALLY. BRIDGING, SPACED AT INTERVALS SHOWN IN THE DRAWINGS SHALL BE INSTALLED PRIOR TO THE ATTACHMENT OF SHEATHING MATERIALS AND LOADING OF THE WALL.
- 514 UNLESS NOTED OTHERWISE CONTINUOUS STUDS EACH SIDE OF HEADERS SHALL BE EQUAL TO 1/2 OF THE INTERRUPTED STUDS PLUS ONE STUD AT EACH SIDE. USE MINIMUM OF 2 STUDS EACH SIDE.
- 515 HEADERS SHALL BE DESIGNED TO TRANSFER ALL UNIFORM AND/OR CONCENTRATED LOADS. SHEAR SHALL BE TRANSFERRED BY FULL BEARING ON JACK STUDS OR BY SHEAR PLATES. SHEAR PLATES SHALL BE 16 GA. MINIMUM.
- 516 VOIDS BENEATH TRACK SHALL NOT BE PERMITTED WHERE UNEVENNESS OF SUPPORTING FLOOR PREVENTS CONTINUOUS SOLID BEARING, PANEL OR TRACK SHALL BE LEVELED.
- 517 UNLESS NOTED OTHERWISE, BRICK AND STONE VENEER SHALL BE ATTACHED TO WALL STUDS WITH HOHMANN-BARNARD 2-PIECE TIE # 16" OC EACH WAY.

100 SPECIAL INSPECTIONS

- 101 IN ADDITION TO INSPECTIONS REQUIRED BY THE BUILDING OFFICIAL (2018 IBC SEC 110), SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE 2018 IBC CHAPTER 11.
- 102 SPECIAL INSPECTION REPORTS AND FINAL REPORT IN ACCORDANCE WITH SECTION 1104.2.4 SHALL BE SUBMITTED TO THE BUILDING OFFICIAL PRIOR TO THE TIME THAT PHASE OF WORK IS APPROVED FOR OCCUPANCY.
- 103 REFER TO STATEMENT OF SPECIAL INSPECTIONS AND SCHEDULE OF SPECIAL INSPECTIONS, UNDER SEPARATE COVER.
- 104 THE FOLLOWING MATERIALS AND/OR SYSTEMS REQUIRE SPECIAL INSPECTIONS IN ACCORDANCE WITH THE 2018 IBC CHAPTER 11:
- CONCRETE
  - STRUCTURAL STEEL
  - CMU MASONRY
  - SOILS



Lyman  
Davidson  
Dooley, Inc.  
  
1648 Powers Ferry Road  
Building One  
Marietta, GA 30067  
  
770.850.8494  
770.956.9030  
  
liddi-architects.com

REVISIONS



NEW CONSTRUCTION  
ROCKDALE FIRE  
STATION 10  
ROCKDALE, GEORGIA

ROCKDALE  
FIRE  
STATION 10  
3130 GA Hwy. 138  
Conyers, GA 30013

ROCKDALE  
CO. FIRE  
DEPT.  
Fire Station No. 7  
1496 Rockbridge Road  
Conyers, GA 30012

TITLE GENERAL  
NOTES

STATUS Issue for Permit

JOB 121038.00

QC DWH

DRAWN DWH

SHEET S001

DATE 06/22/2022

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REVISIONS



NEW CONSTRUCTION  
**ROCKDALE FIRE  
STATION 10**  
ROCKDALE, GEORGIA

ROCKDALE  
FIRE  
STATION 10  
3130 GA Hwy, 138  
Conyers, GA 30013

ROCKDALE  
CO. FIRE  
DEPT.  
Fire Station No. 7  
1496 Rockbridge Road  
Conyers, GA 30012

TITLE FOUNDATION  
PLAN

STATUS Issue for Permit

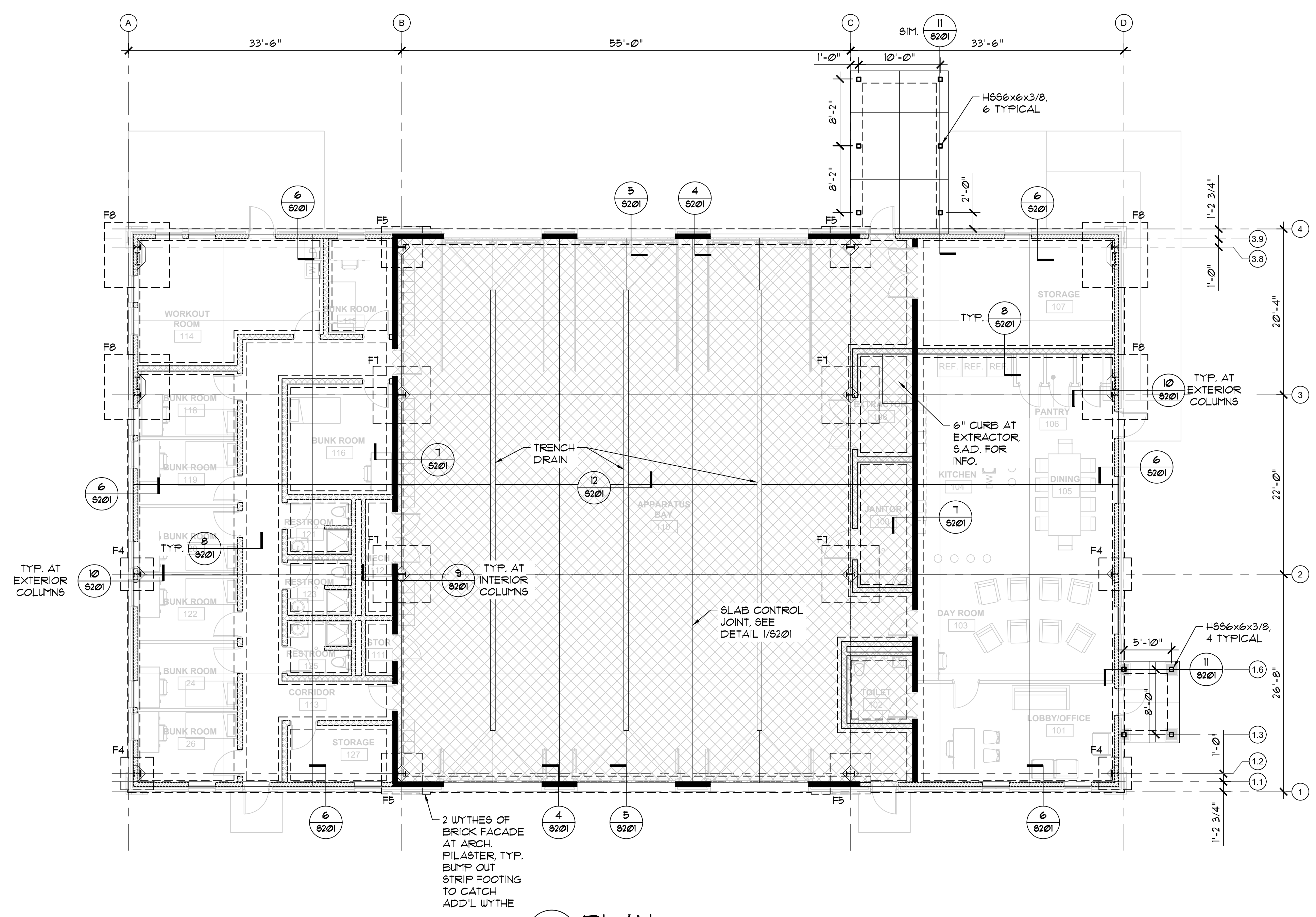
JOB 121038.00

QC DWH

DRAWN DWH

SHEET **S101**

DATE 06/22/2022



**1 PLAN**  
SCALE: 1/8" = 1'-0"  
FIRST FLOOR/FOUNDATION

MARK	DIMENSIONS	REINFORCEMENT
F4	4'-0" SQ x 1'-6" THICK	(5) #5 T4B, EACH WAY
F5	5'-0" SQ x 1'-8" THICK	(6) #5 T4B, EACH WAY
F7	7'-0" SQ x 2'-0" THICK	(8) #7 T4B, EACH WAY
F8	8'-0" SQ x 2'-0" THICK	(9) #7 T4B, EACH WAY

- FOUNDATION PLAN NOTES:
- S.A.D. FOR ADDITIONAL DIMENSIONS, ELEVATIONS, SLOPES, AND DRAINS.
  - SLAB ON GROUND AT APPARATUS BAY ROOM 110 SHALL BE 8" THICK W/ #4 @ 12" OC E.W., 2" CLR. FROM T.O. SLAB, ON VAPOR BARRIER ON MIN. 4" CRUSHED STONE BASE. EXTENTS OF 8" THICK SLAB IS INDICATED BY HATCH.
  - SLAB ON GRADE ELSEWHERE IS MIN. 4" THICK (UNO.) WITH 6x6-W2.9xW2.9 WUF, CENTERED IN SLAB, ON VAPOR BARRIER ON MIN. 4" CRUSHED STONE BASE.
  - SLABS AND FOUNDATIONS SHALL BE PLACED ON COMPACTED SOILS AS SPECIFIED IN GENERAL NOTES (SECTION 2, SHEET 9-001). SOIL COMPACTION SHALL BE VERIFIED BY A LICENSED GEOTECHNICAL ENGINEER PRIOR TO CONCRETE INSTALLATION.
  - FX' INDICATES FOOTING TYPE, SEE SCHEDULE AT LEFT. T.O. FOOTING ELEVATIONS 16" BFF, UNO. ON PLAN.
  - SEE SHEET S202 FOR WALL FRAMING INFORMATION.

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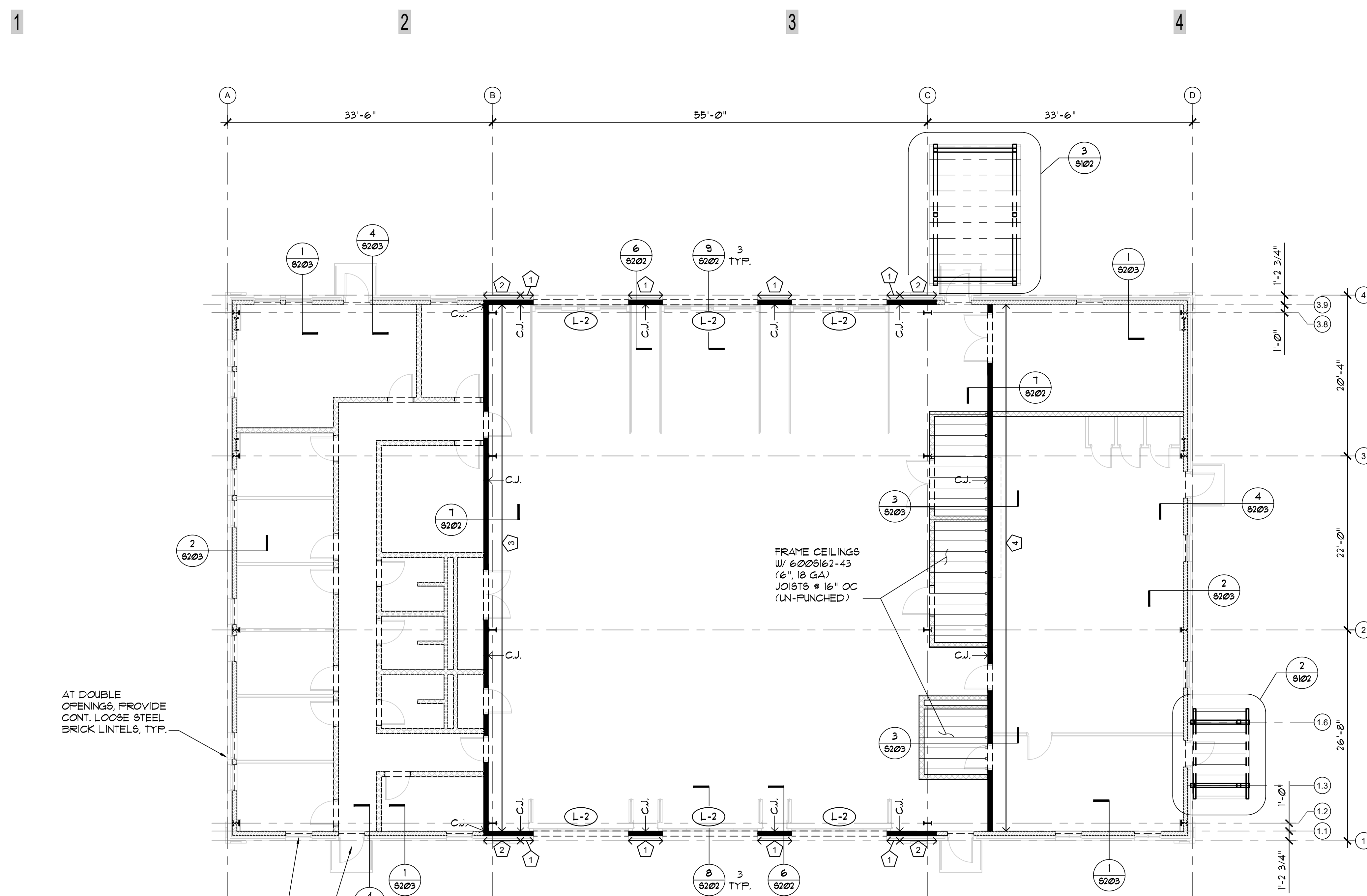
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WALL FRAMING KEY	
DESCRIPTION	SYMBOL
<b>WALL TYPE (1)</b> 8" CMU WALL - #6 @ 8" OC - T.W. = 21'-4" - 8" BOND BEAM W/ #5 CONT. AT 8'-0", 16'-0" & 21'-4"	
<b>WALL TYPE (2)</b> 8" CMU WALL - #6 @ 8" OC - T.W. = 22'-0" - 8" BOND BEAM W/ #5 CONT. AT 8'-0", 16'-0", 21'-4" & 22'-0"	
<b>WALL TYPE (3)</b> 8" CMU INTERIOR WALL - #5 @ 32" OC - T.W. = 16'-8" - 8" BOND BEAM W/ #5 CONT. AT 8'-0" & 16'-8"	
<b>WALL TYPE (4)</b> 8" CMU INTERIOR WALL - #5 @ 32" OC - T.W. = 15'-8" - 8" BOND BEAM W/ #5 CONT. AT 8'-0" & 15'-8"	
<b>WALL TYPE (5)</b> 6" OR 8" CMU INTERIOR WALL - #4 @ 32" OC - T.W. = 10'-8" - 8" BOND BEAM W/ #4 CONT. AT 10'-8"	
VERTICAL CONTROL JOINT IN CMU WALL, SEE DETAIL 3/S202	
LIGHT GAUGE FRAMED EXTERIOR WALL - 6009162-43 (6", 18 GA) METAL STUDS - WHERE STUD SPAN LENGTH IS 14'-6" OR LESS, SPACING = 16" OC - WHERE STUD SPAN LENGTH IS GREATER THAN 14'-6" BUT LESS THAN 16'-0", SPACING = 12" OC	
LIGHT GAUGE FRAMED OPENING, SEE DETAIL 5/S202	

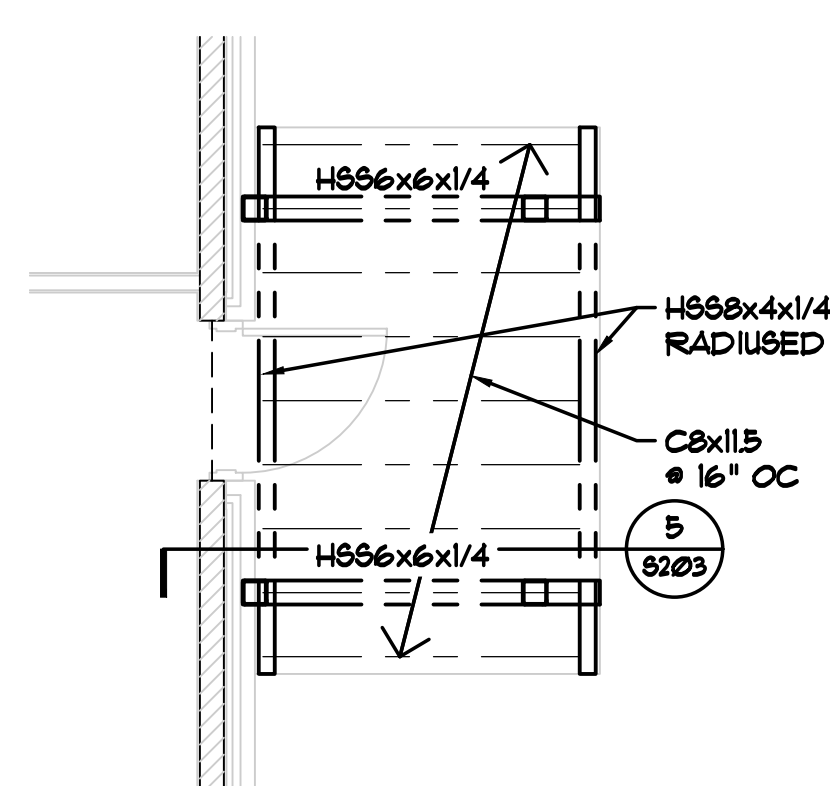
CMU LINTEL SCHEDULE	
LINTEL I.D.	LINTEL SIZE
(L-1)	8F8-1B CAST-CRETE PRECAST LINTEL
(L-2)	8F16-1B/IT CAST-CRETE PRECAST LINTEL

NOTES:  
1. ALL CMU LINTELS ARE TYPE "L-1", UNO. ON PLAN.  
2. SEE DETAIL 2/S202 FOR ADD'L INFORMATION AT CMU OPENINGS.

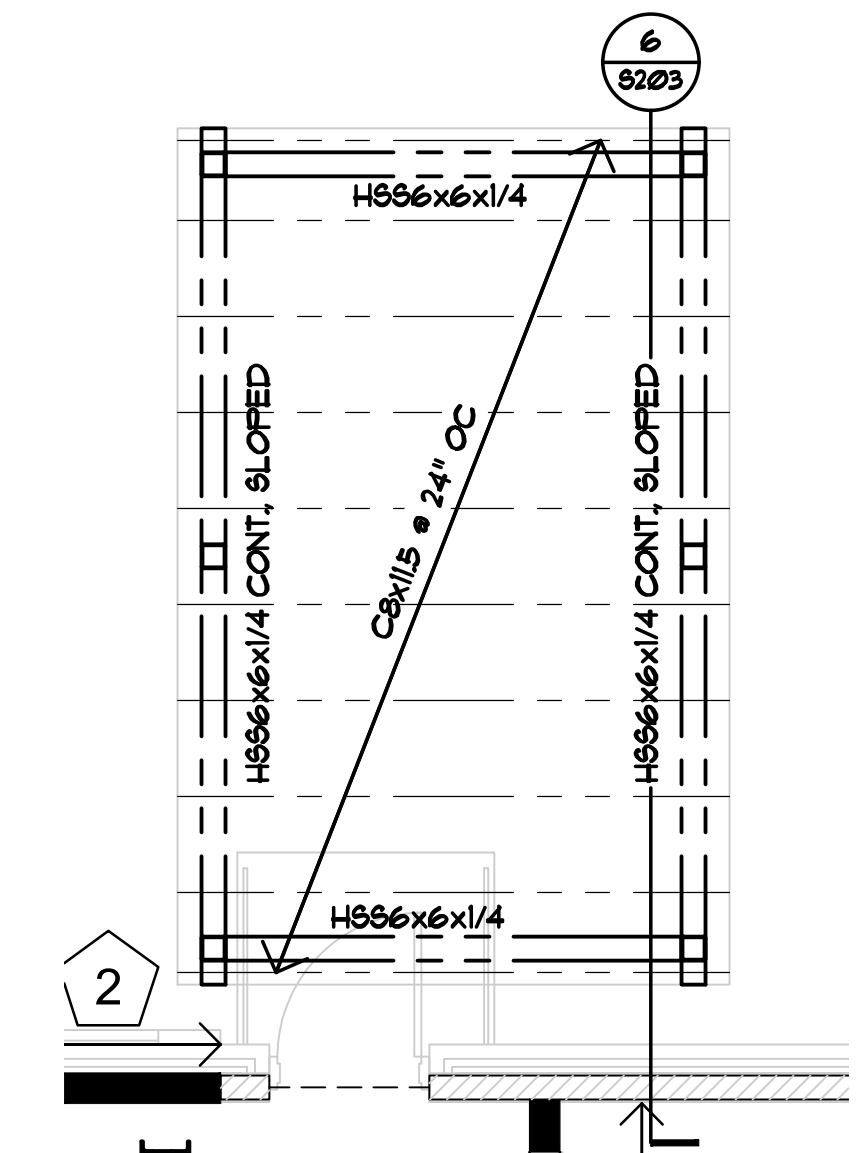
LAP SPLICE SCHEDULE IN CMU WALLS	
REBAR SIZE	MIN. LAP LENGTH
#4	30"
#5	36"
#6	44"



**1 PLAN**  
SCALE: 1/8" = 1'-0"  
FRAMING



**2 PARTIAL PLAN**  
SCALE: 1/4" = 1'-0"  
SIDE CANOPY  
ROOF FRAMING



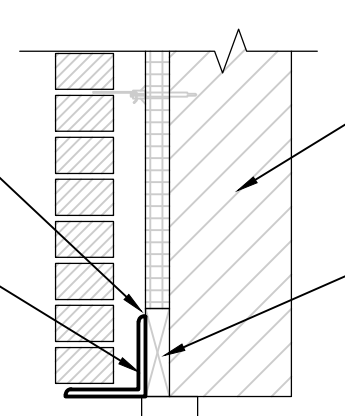
**3 PARTIAL PLAN**  
SCALE: 1/4" = 1'-0"  
REAR CANOPY  
ROOF FRAMING

AT DOUBLE OPENINGS, PROVIDE CONT. LOOSE STEEL BRICK LINTELS, TYP.

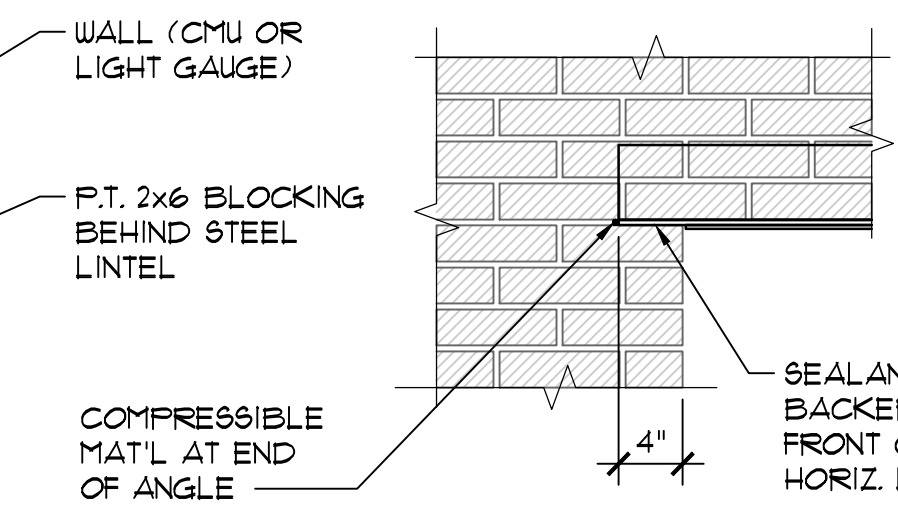
PROVIDE LOOSE STEEL BRICK LINTELS OVER OPENINGS SMALLER THAN 6'-6", TYP. SEE DETAIL A THIS SHEET FOR INFO.

AT OPENINGS W/ AWNING PROVIDE DOUBLE STUDS TO EACH SIDE OF EACH JAMB, TYP. 5 PLACES

S.A.D. FOR FLASHING & WEEPHOLES  
STEEL LINTEL - 1.5x5x5/16 AT OPENING WIDTHS LESS THAN 6'-6"



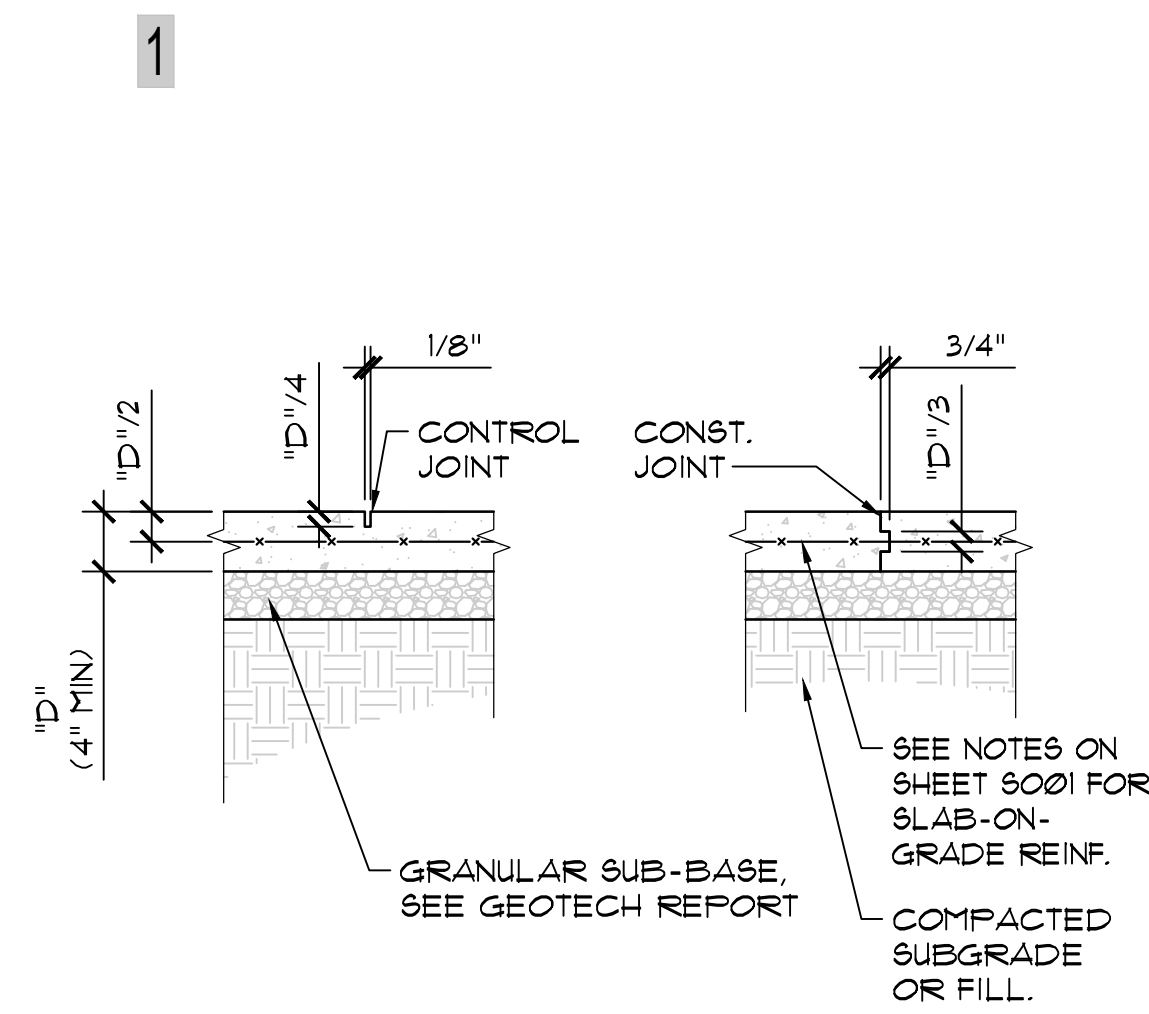
**SECTION**



**ELEVATION**

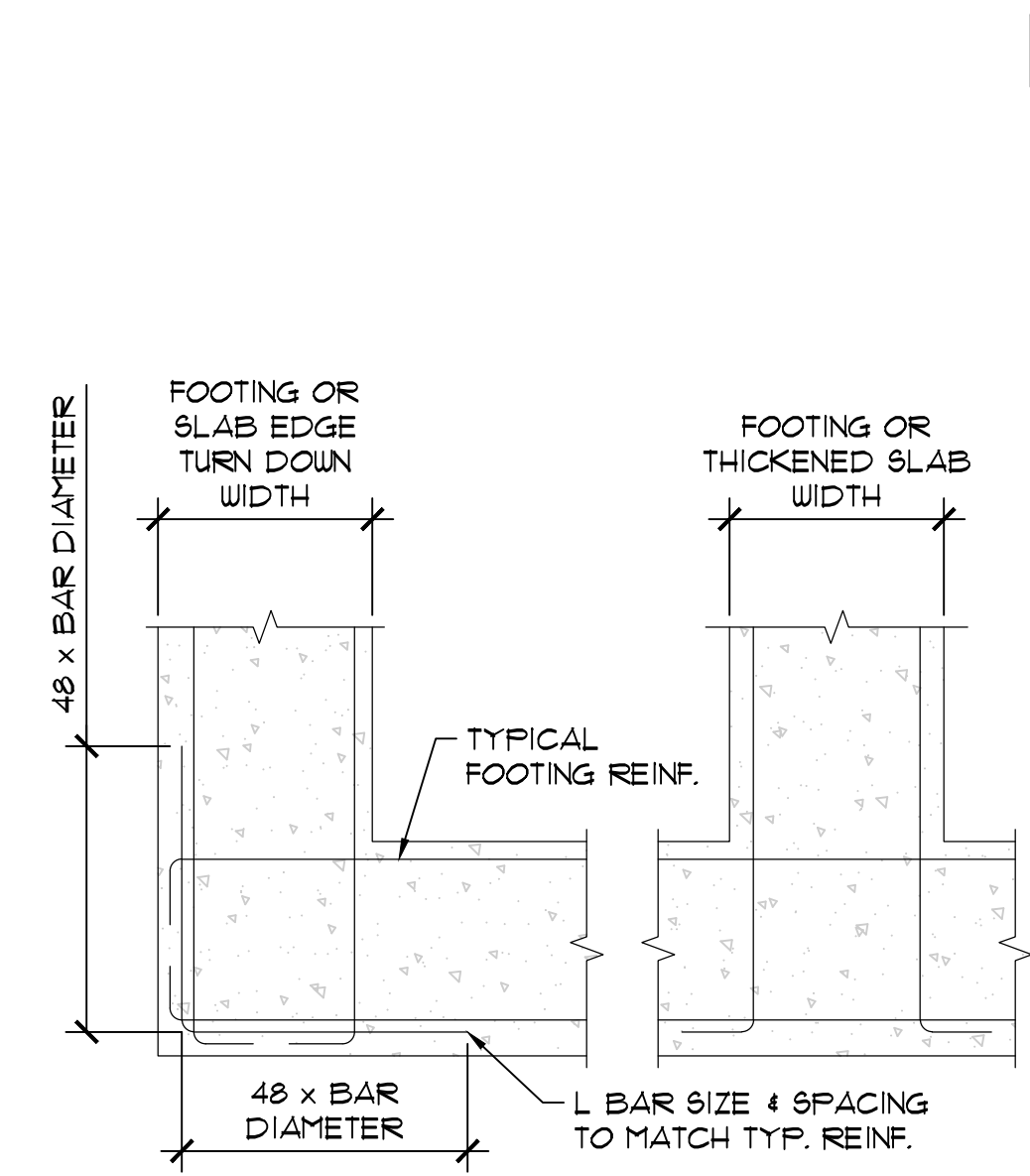
**A DETAIL**  
SCALE: NONE  
BRICK LINTEL



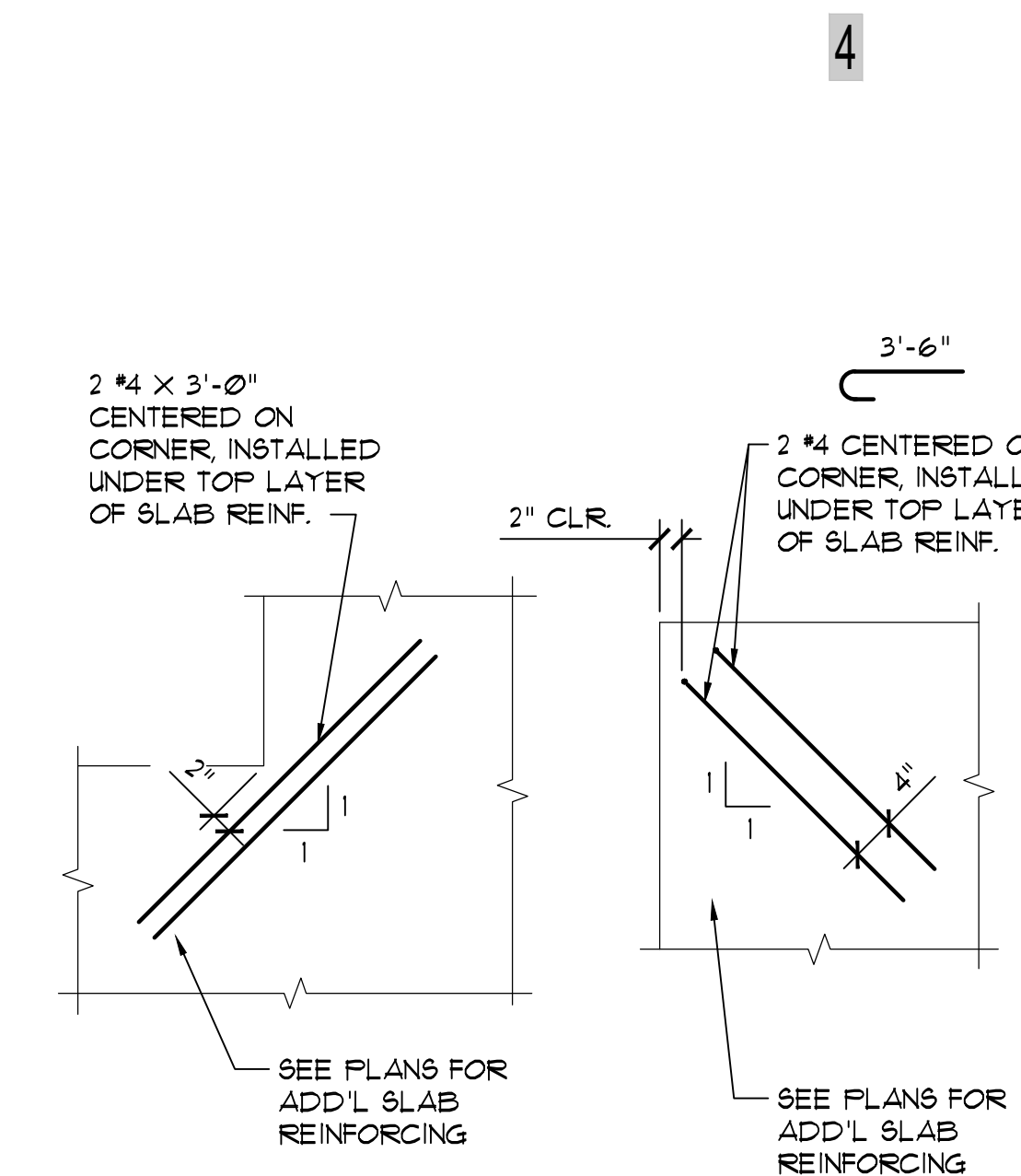


**NOTES:**  
 1. SAW-CUT CONTROL JOINTS WITHIN 12 HOURS OF SLAB PLACEMENT. S.A.D. FOR JOINT SEALANT REQUIREMENTS.  
 2. CLEAN ALL SURFACES IN FUTURE CONTACT WITH CONCRETE AT CONSTRUCTION JOINTS PRIOR TO PLACING NEW CONCRETE.

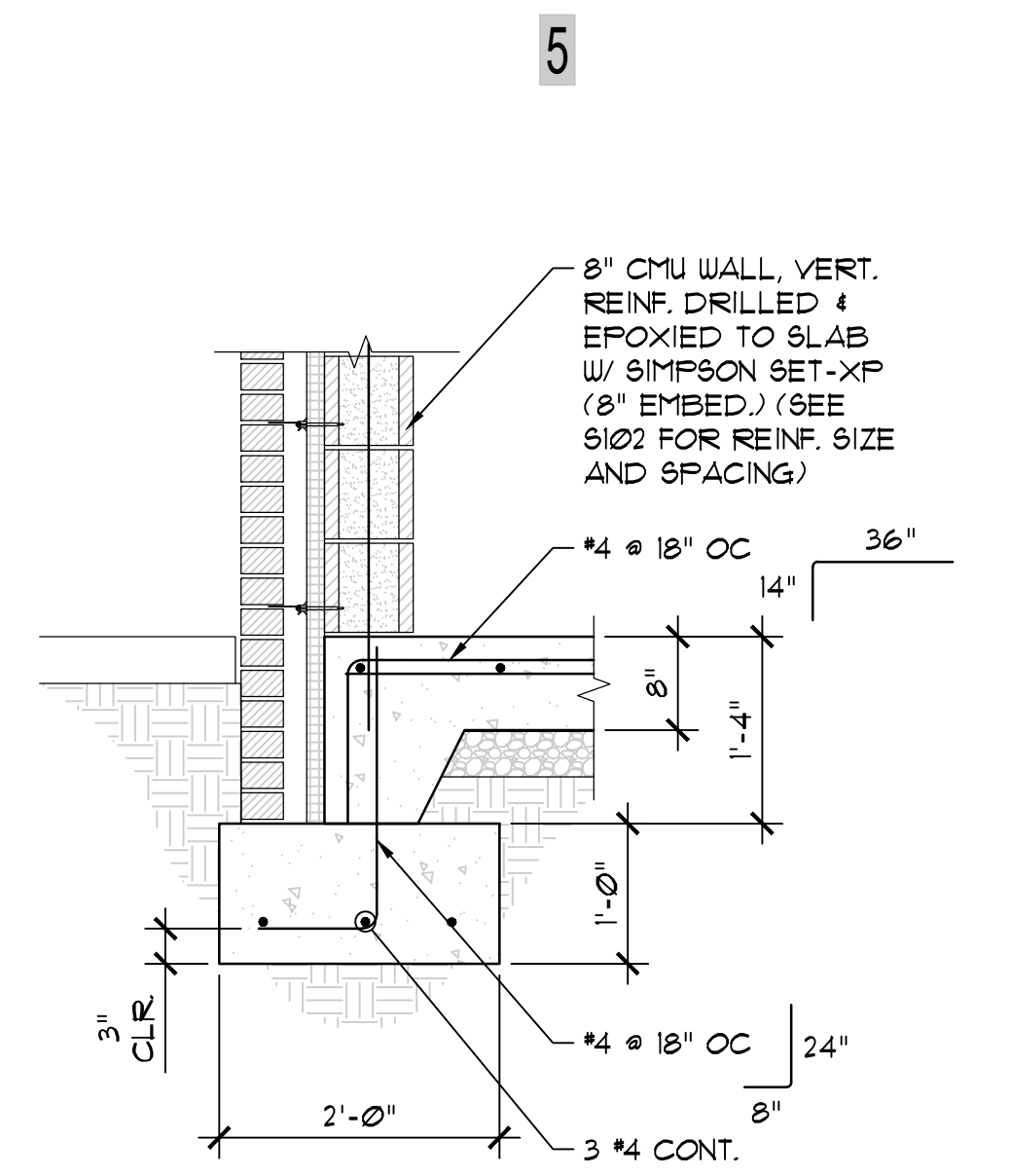
**1 DETAIL** TYPICAL SLAB ON GRADE CONTROL & CONSTRUCTION JOINT  
 SCALE: 3/4" = 1'-0"



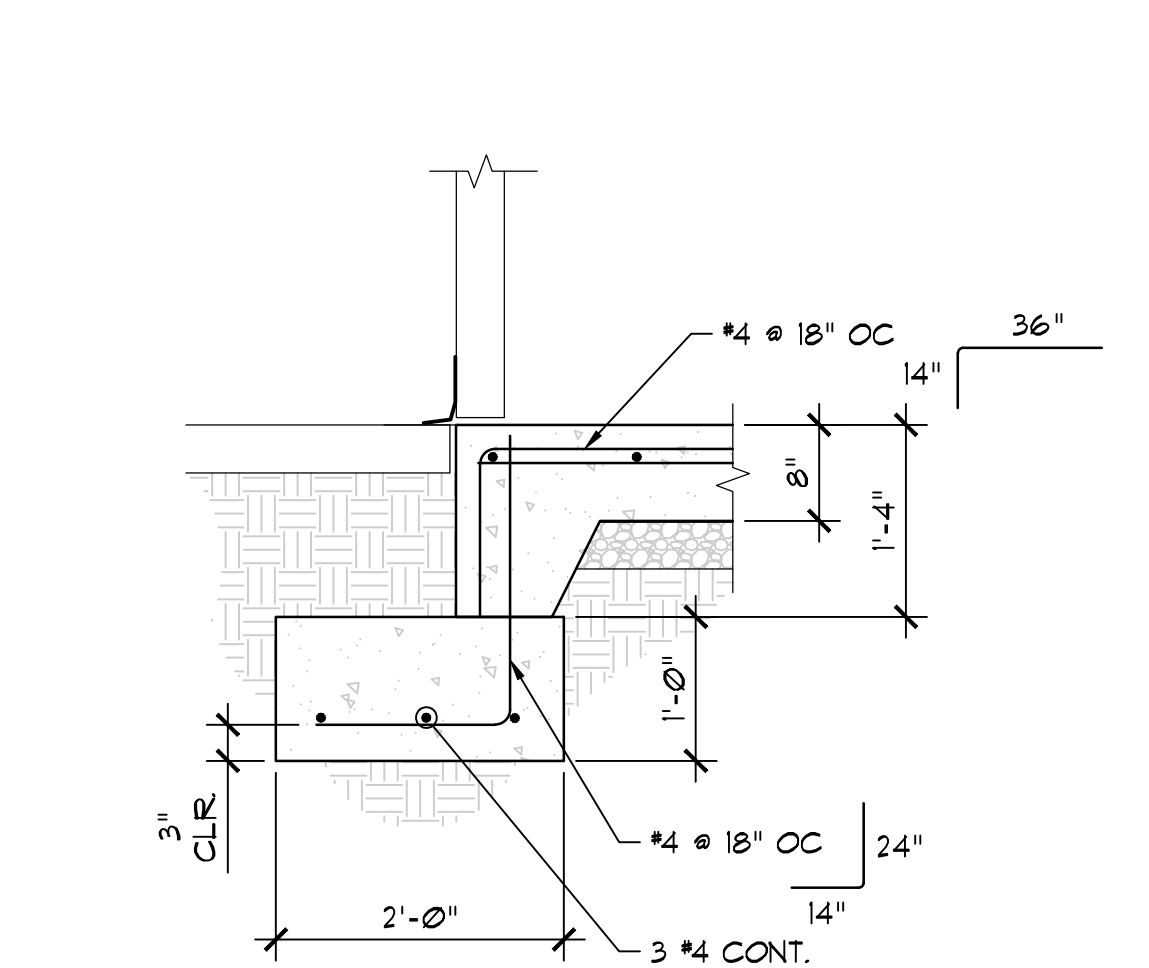
**2 PLAN DETAIL** FOOTING INTERSECTION REINFORCING LAP  
 SCALE: 3/4" = 1'-0"



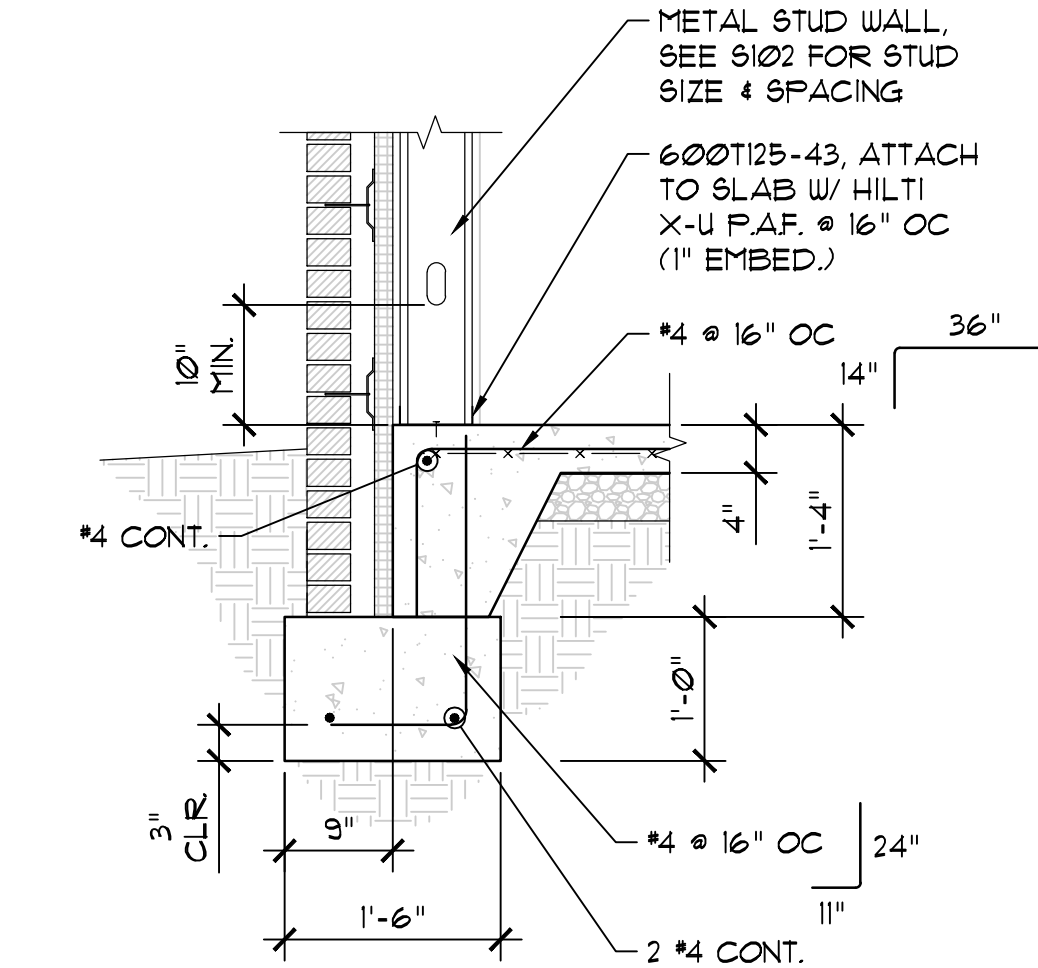
**3 DETAIL** ADD'L REINFORCING AT SLAB CORNERS  
 SCALE: NONE



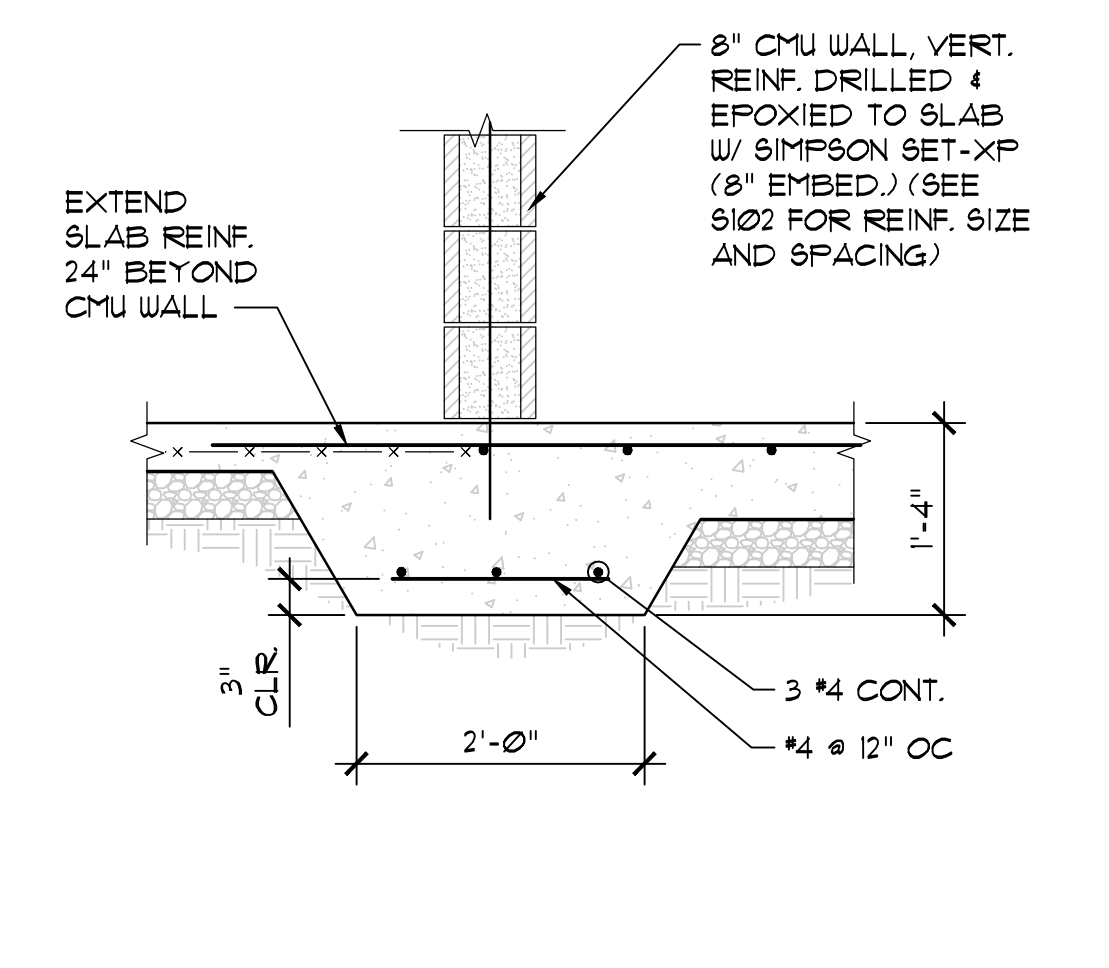
**4 SECTION** AT EXTERIOR CMU WALL FOUNDATION  
 SCALE: 3/4" = 1'-0"



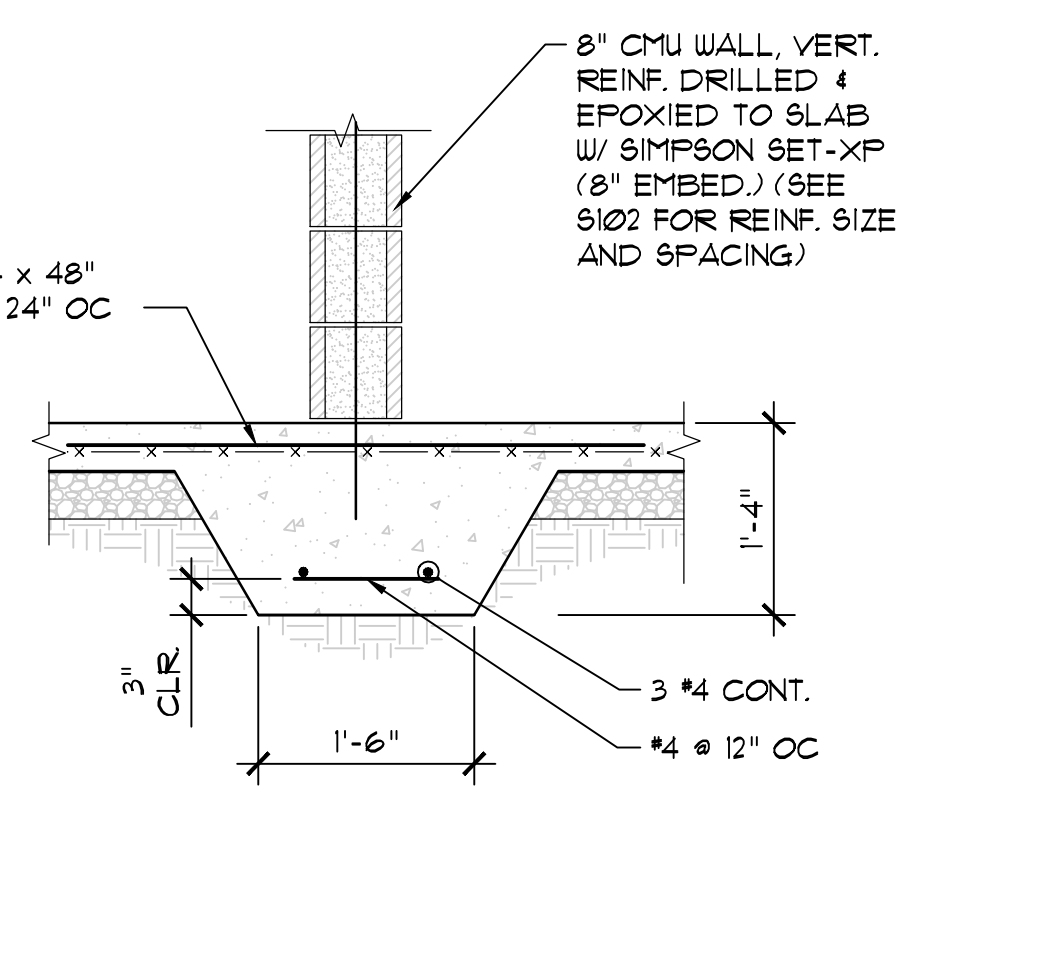
**5 SECTION** AT APPARATUS BAY DOOR FOUNDATION  
 SCALE: 3/4" = 1'-0"



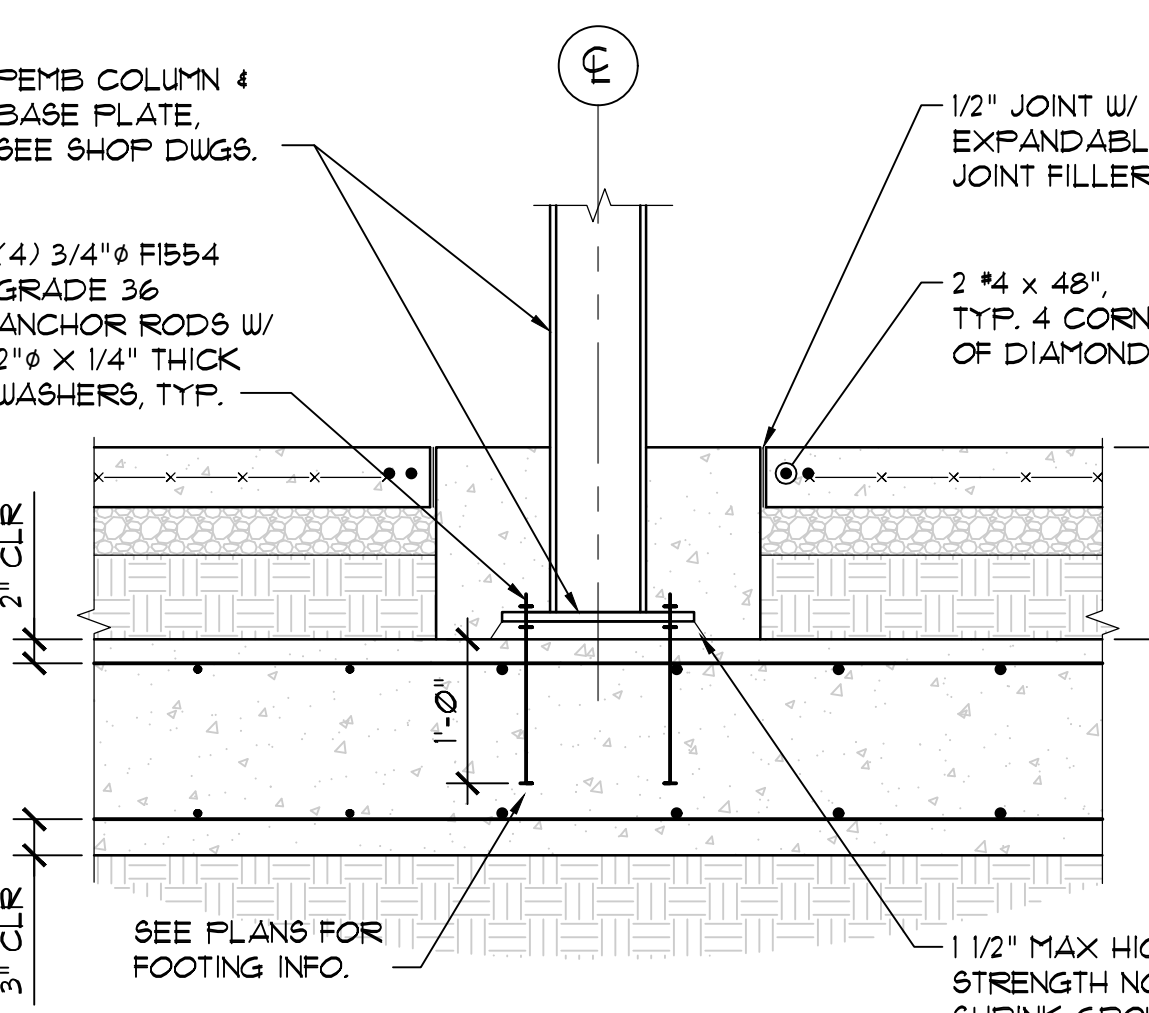
**6 SECTION** AT EXTERIOR METAL STUD WALL FOUNDATION  
 SCALE: 3/4" = 1'-0"



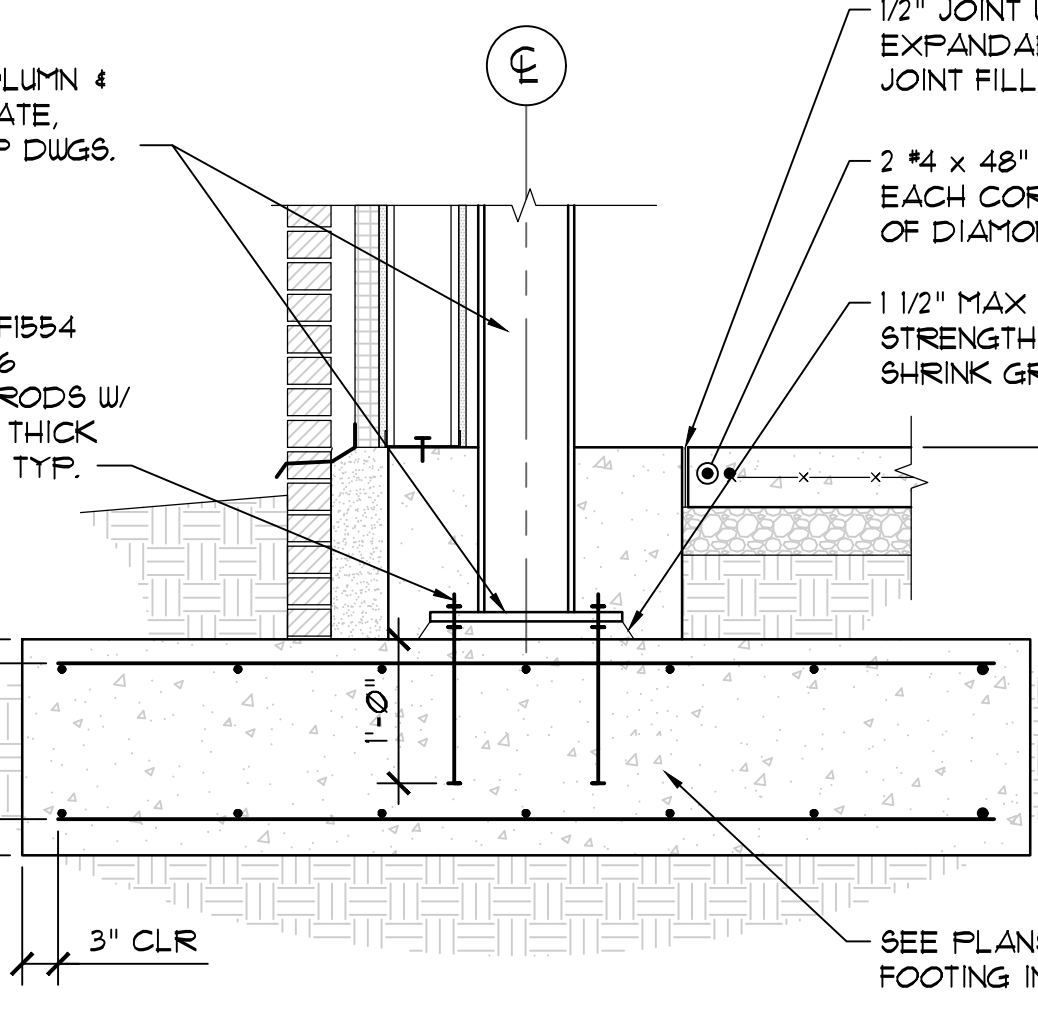
**7 SECTION** AT INTERIOR CMU WALL FDN. WALL TYPES 3, 4, 4  
 SCALE: 3/4" = 1'-0"



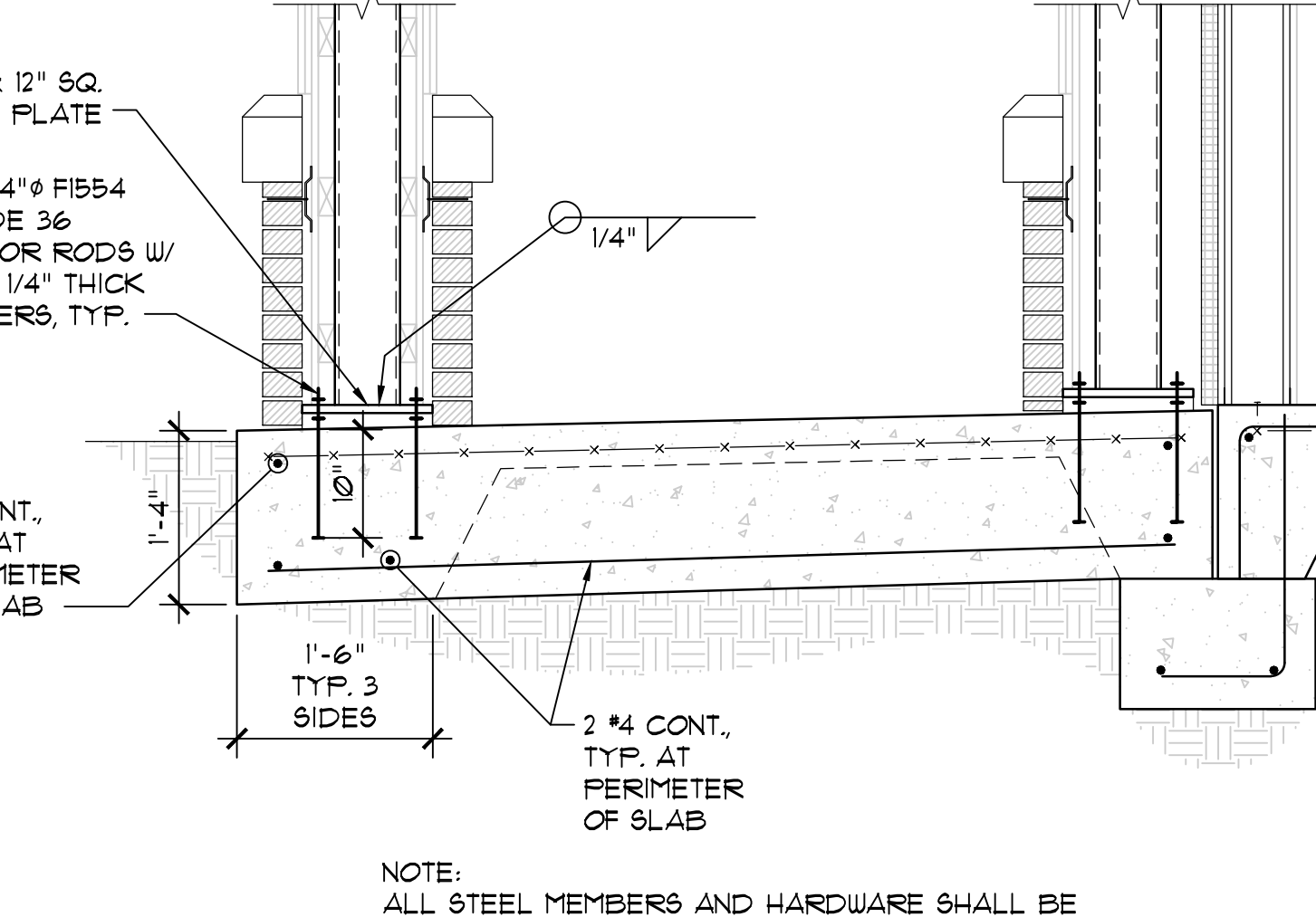
**8 SECTION** AT INTERIOR CMU WALL FDN. WALL TYPE 5  
 SCALE: 3/4" = 1'-0"



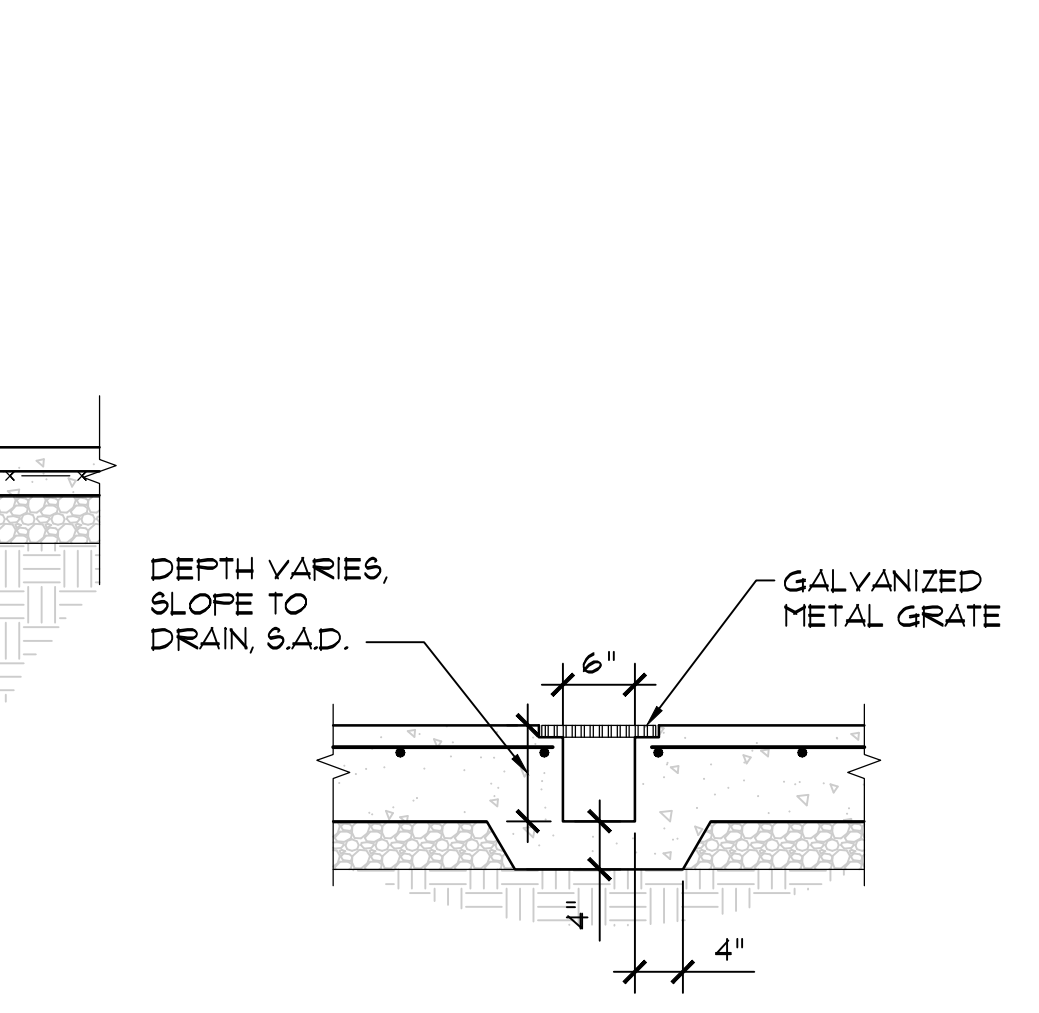
**9 SECTION** AT INTERIOR PEMB COLUMN FOUNDATION  
 SCALE: 3/4" = 1'-0"



**10 SECTION** AT EXTERIOR PEMB COLUMN FOUNDATION  
 SCALE: 3/4" = 1'-0"



**11 SECTION** AT PATIO FOUNDATION  
 SCALE: 3/4" = 1'-0"



**12 SECTION** AT TRENCH DRAIN  
 SCALE: 3/4" = 1'-0"

NO.	REVISIONS



NEW CONSTRUCTION  
**ROCKDALE FIRE STATION 10**  
 ROCKDALE, GEORGIA

**ROCKDALE FIRE STATION 10**  
 3130 GA Hwy, 138  
 Conyers, GA 30013

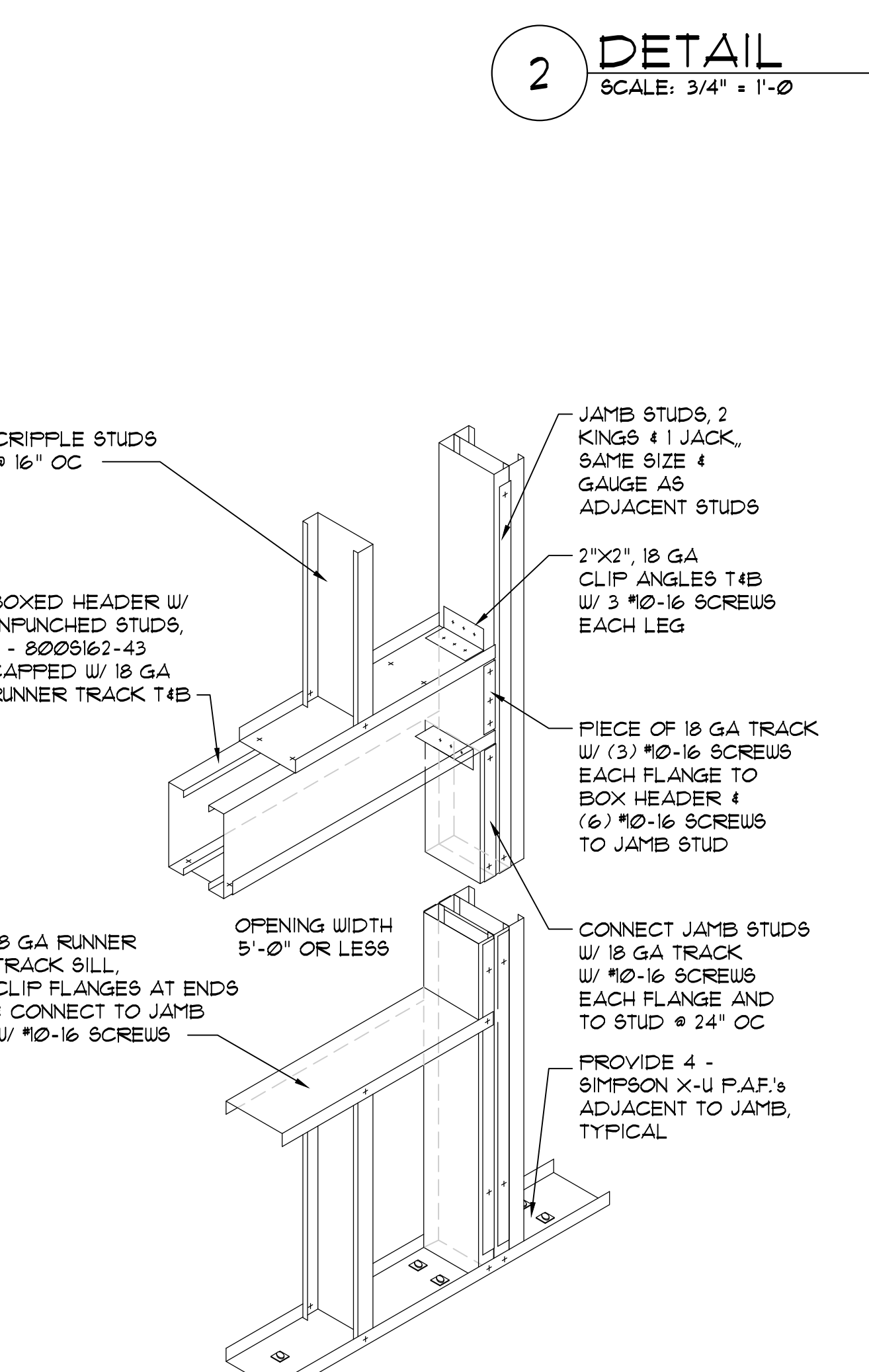
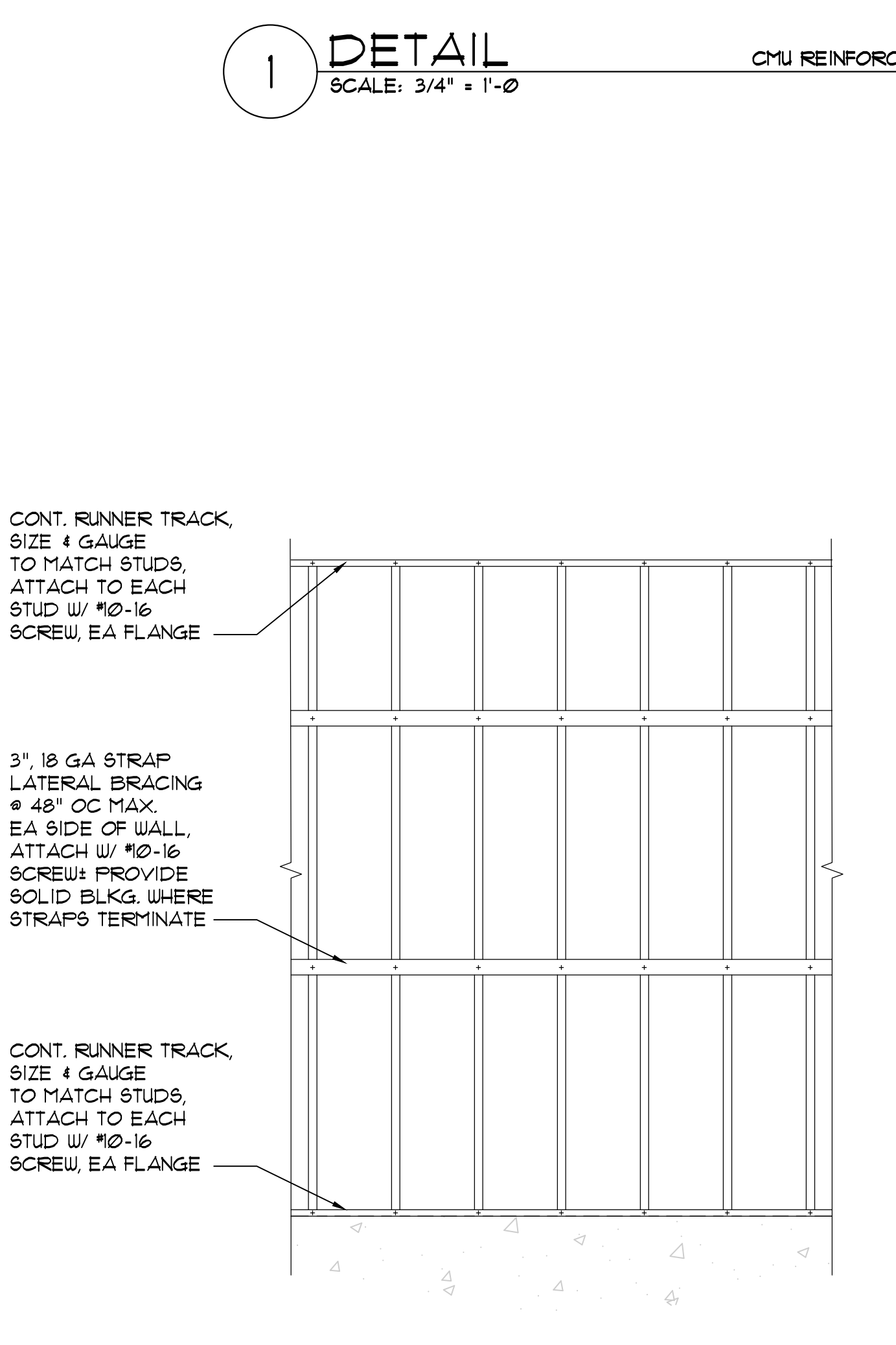
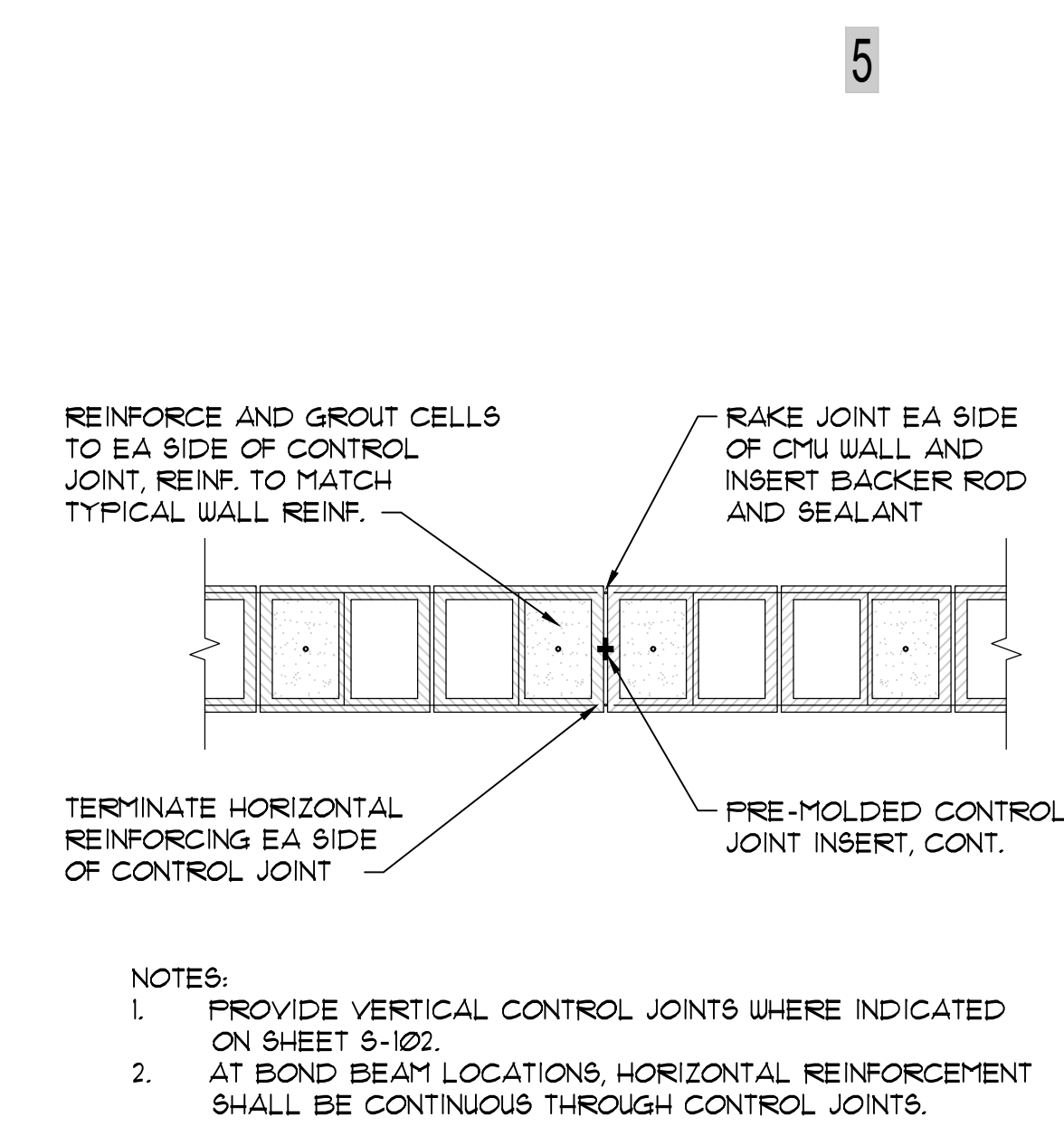
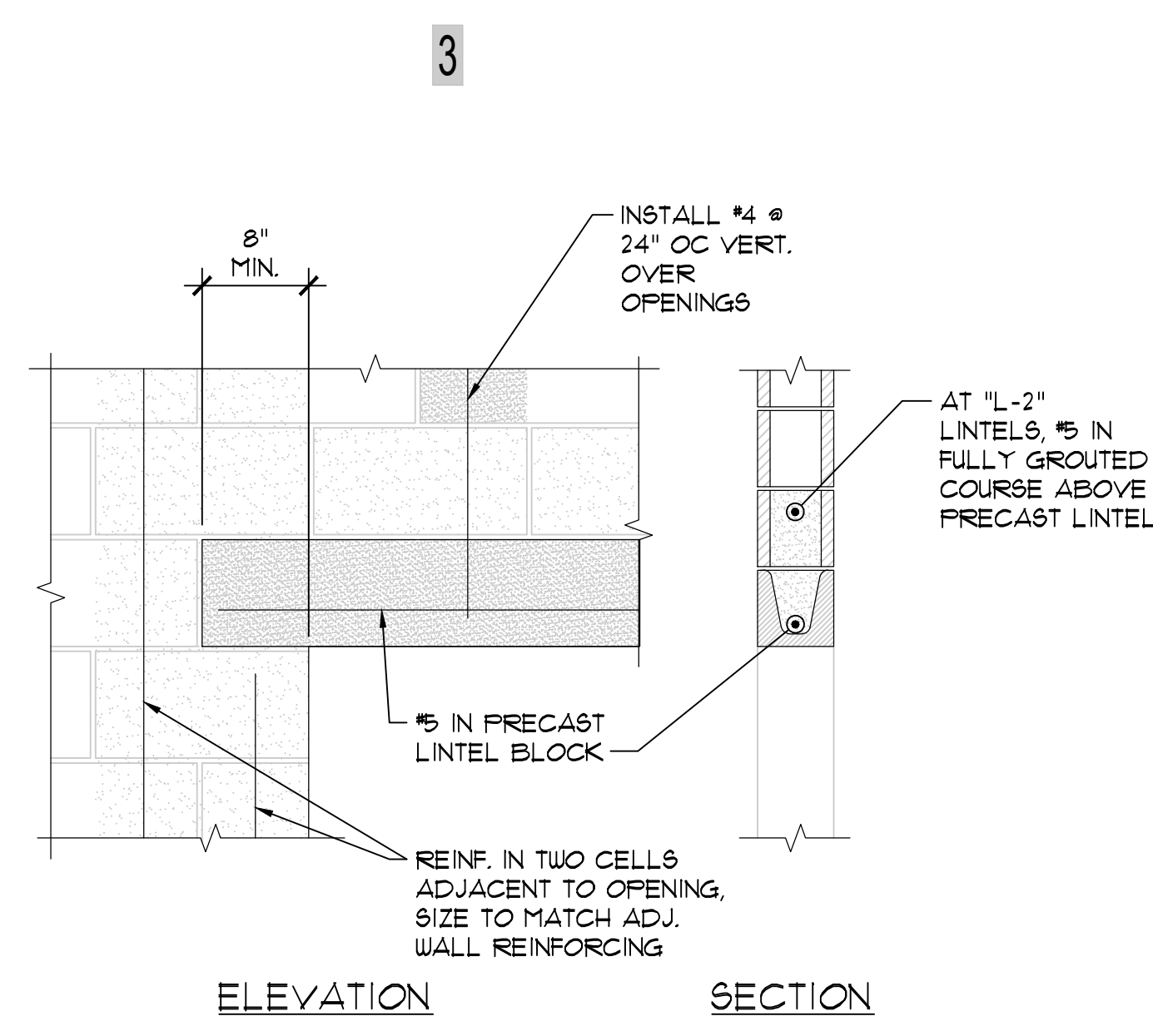
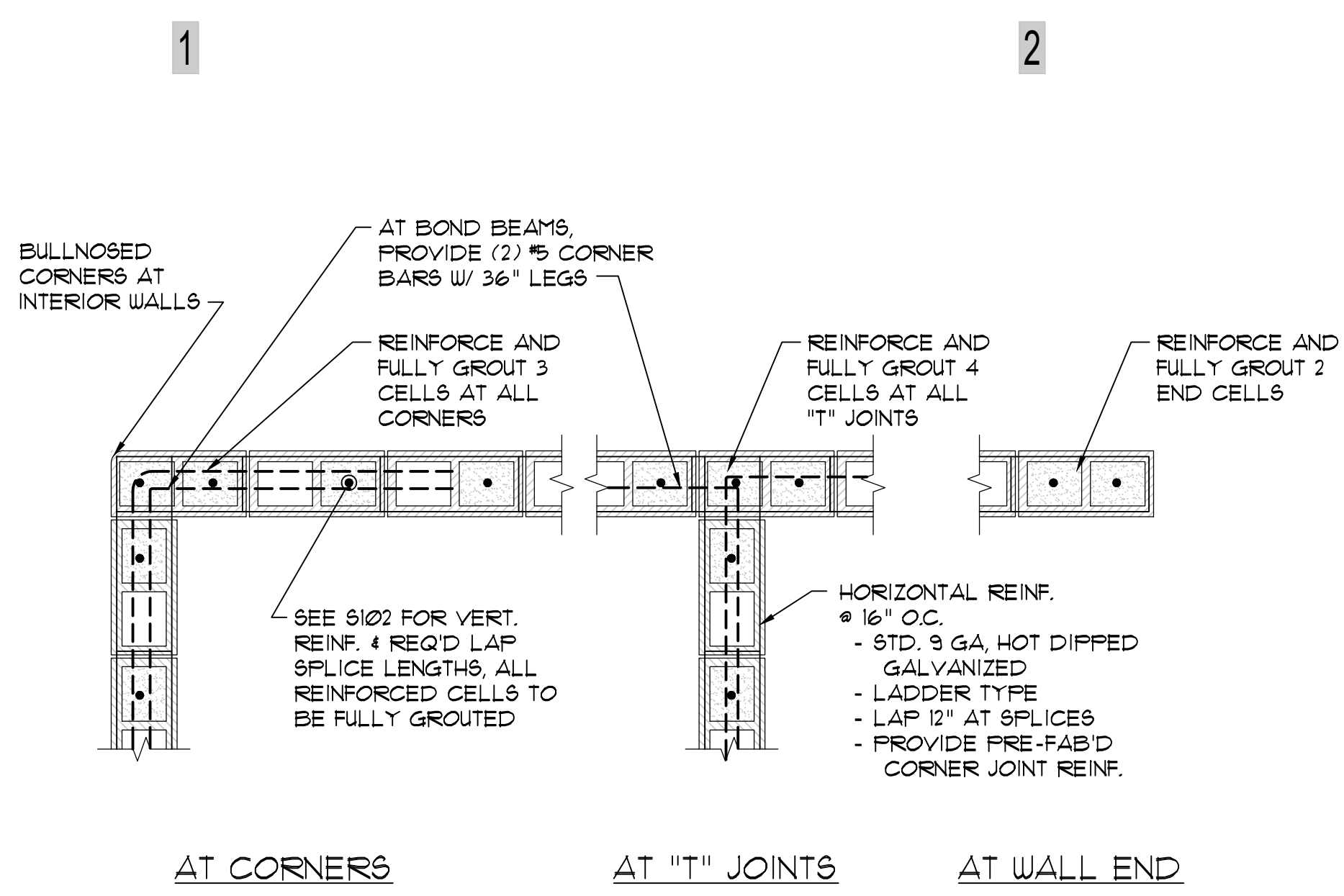
**ROCKDALE CO. FIRE DEPT.**  
 Fire Station No. 7  
 1496 Rockbridge Road  
 Conyers, GA 30012

TITLE FOUNDATION SECTIONS & DETAILS  
 STATUS Issue for Permit  
 JOB 121038.00  
 QC DWH  
 DRAWN DWH  
 SHEET **S201**  
 DATE 06/22/2022

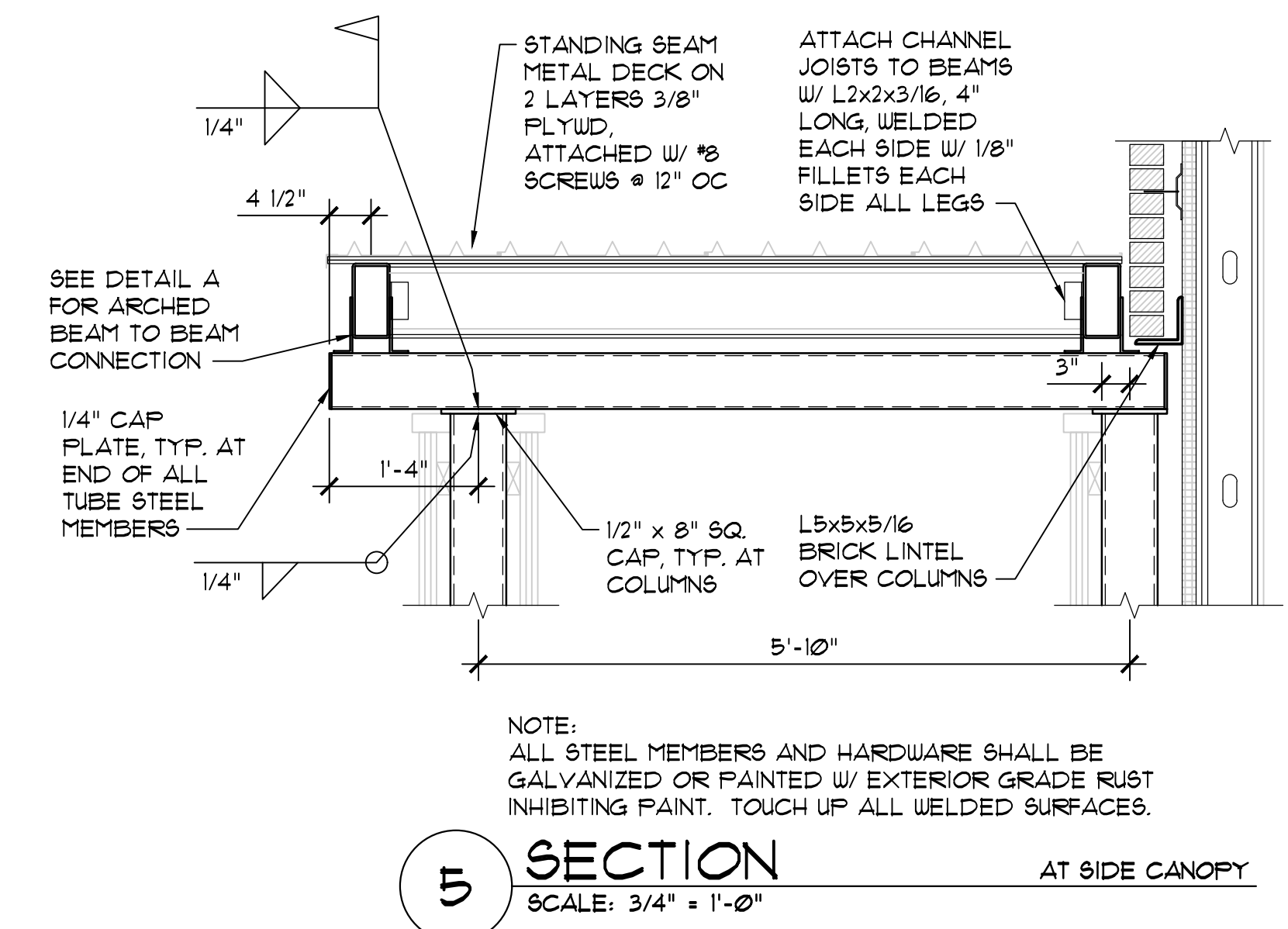
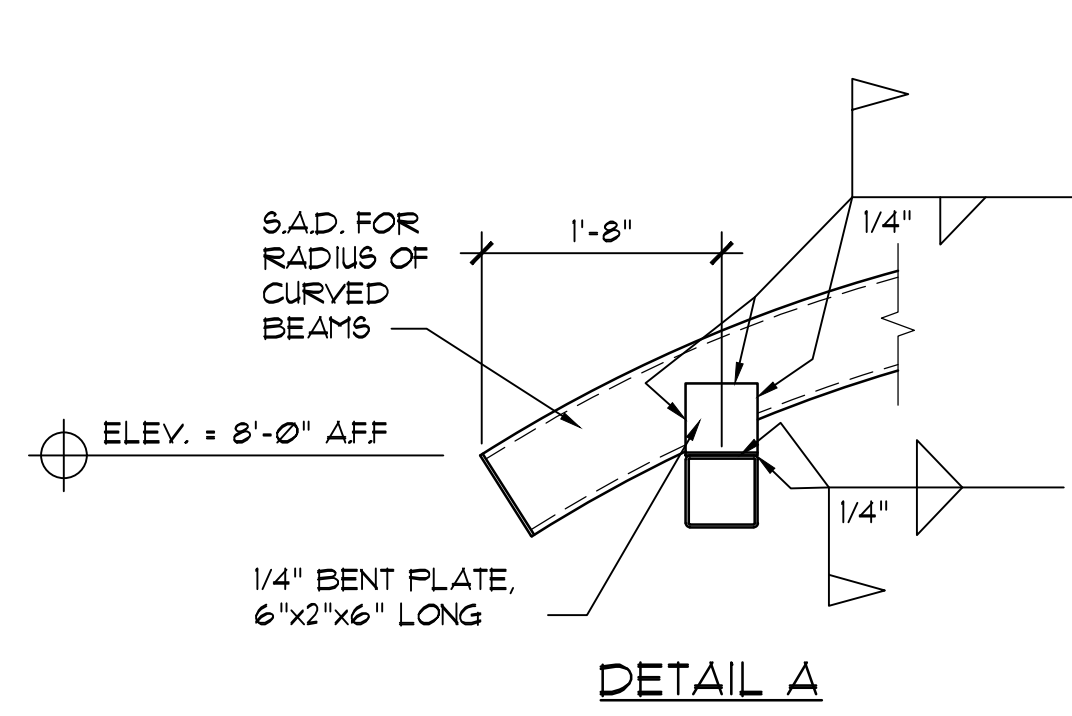
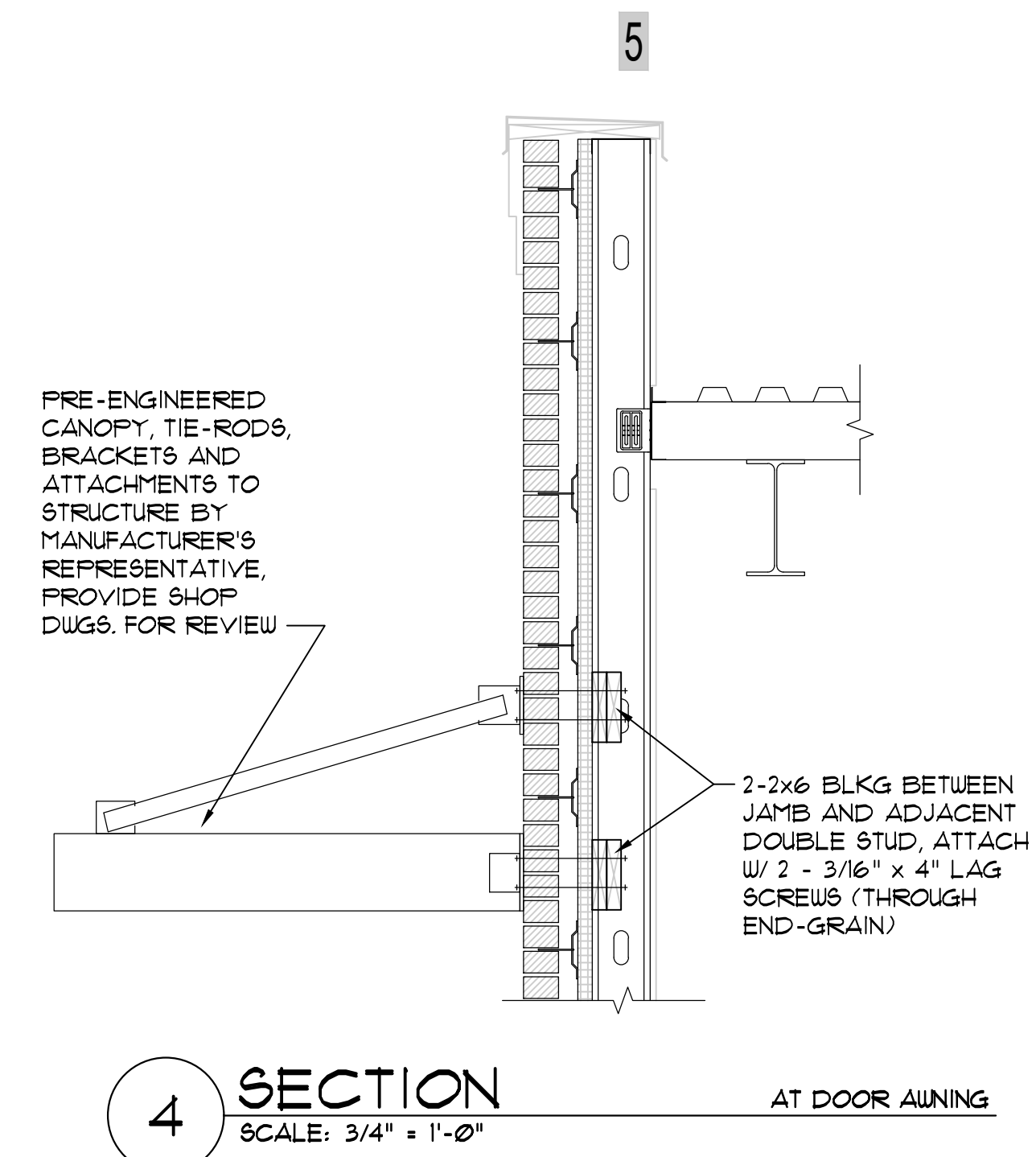
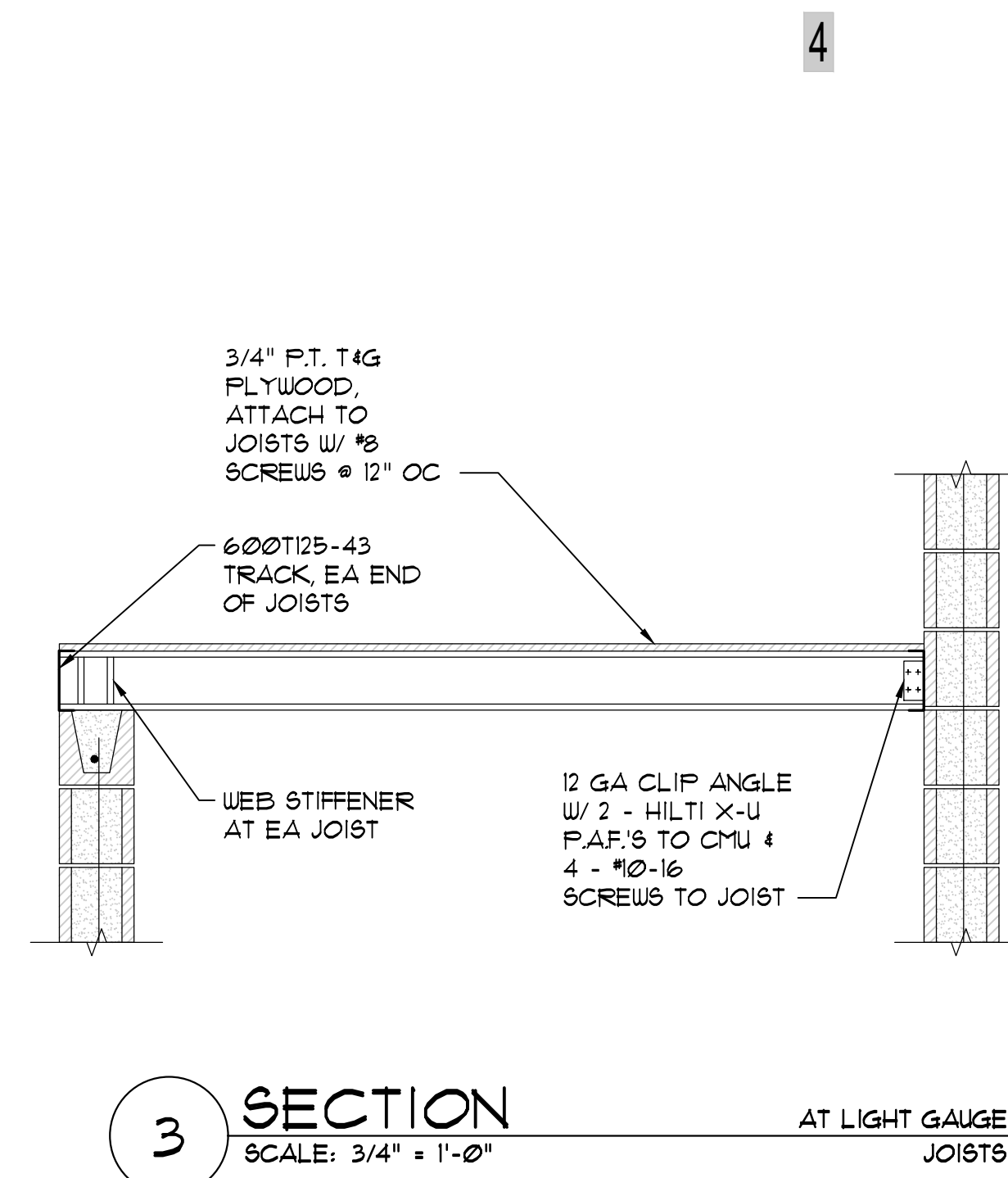
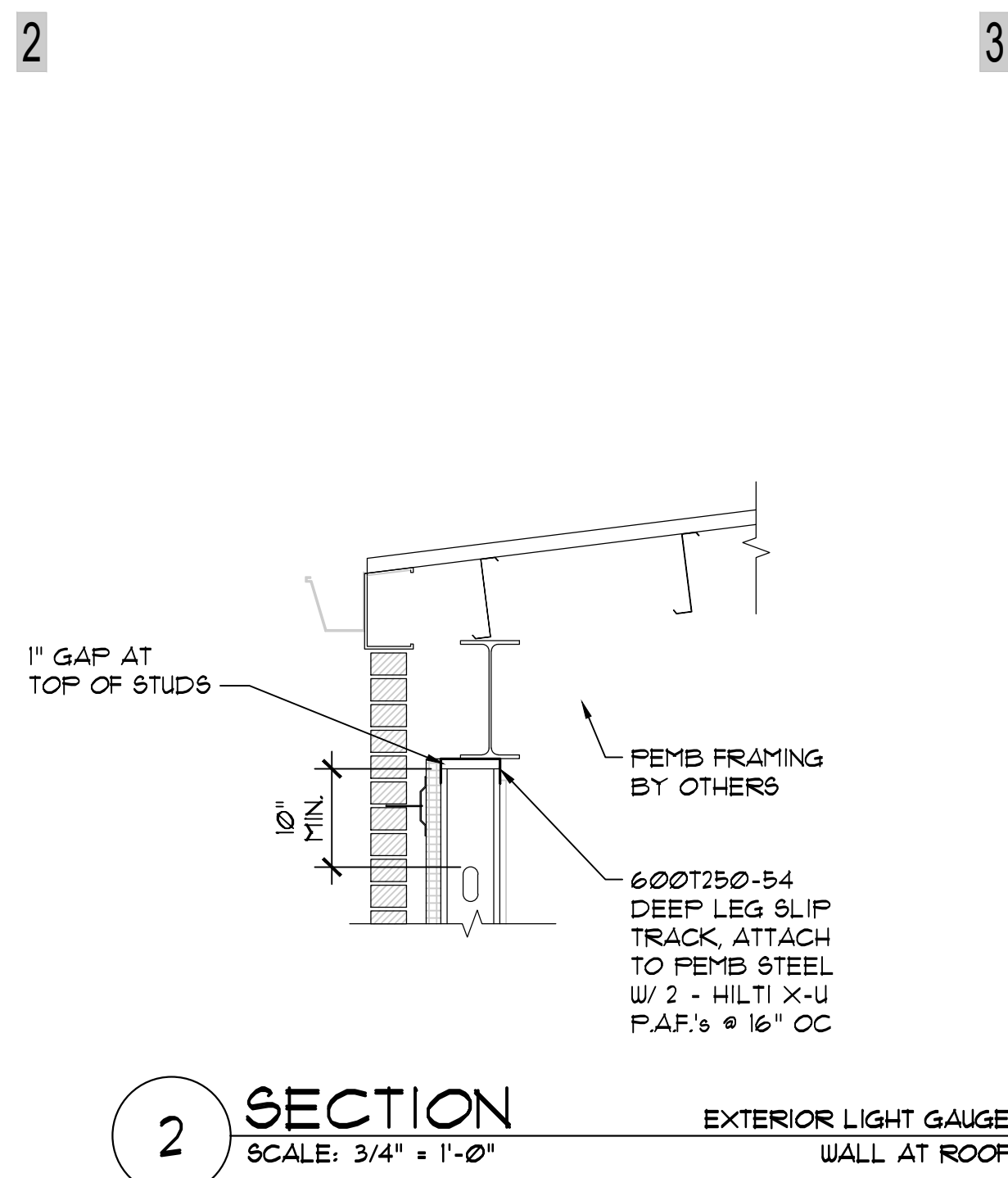
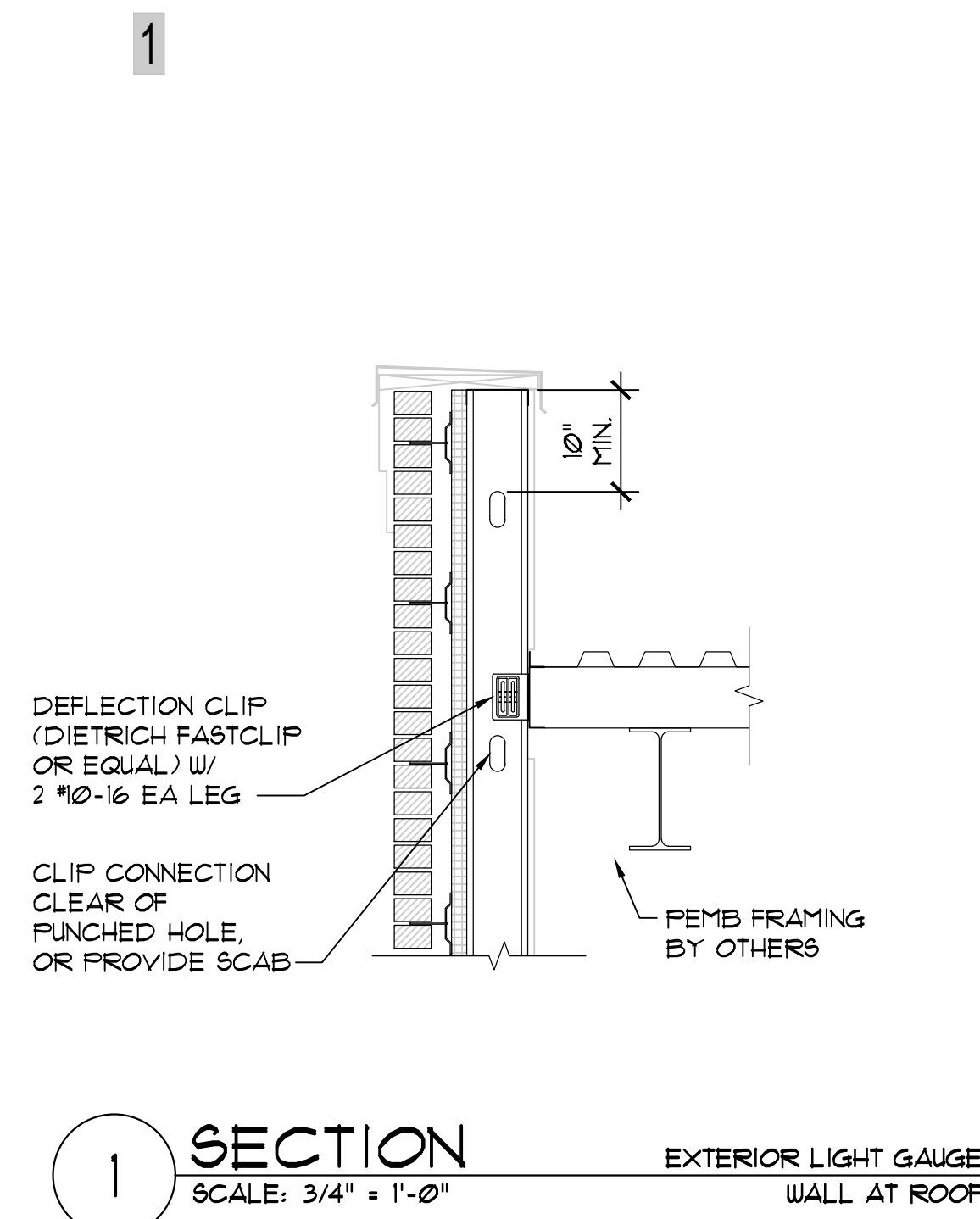
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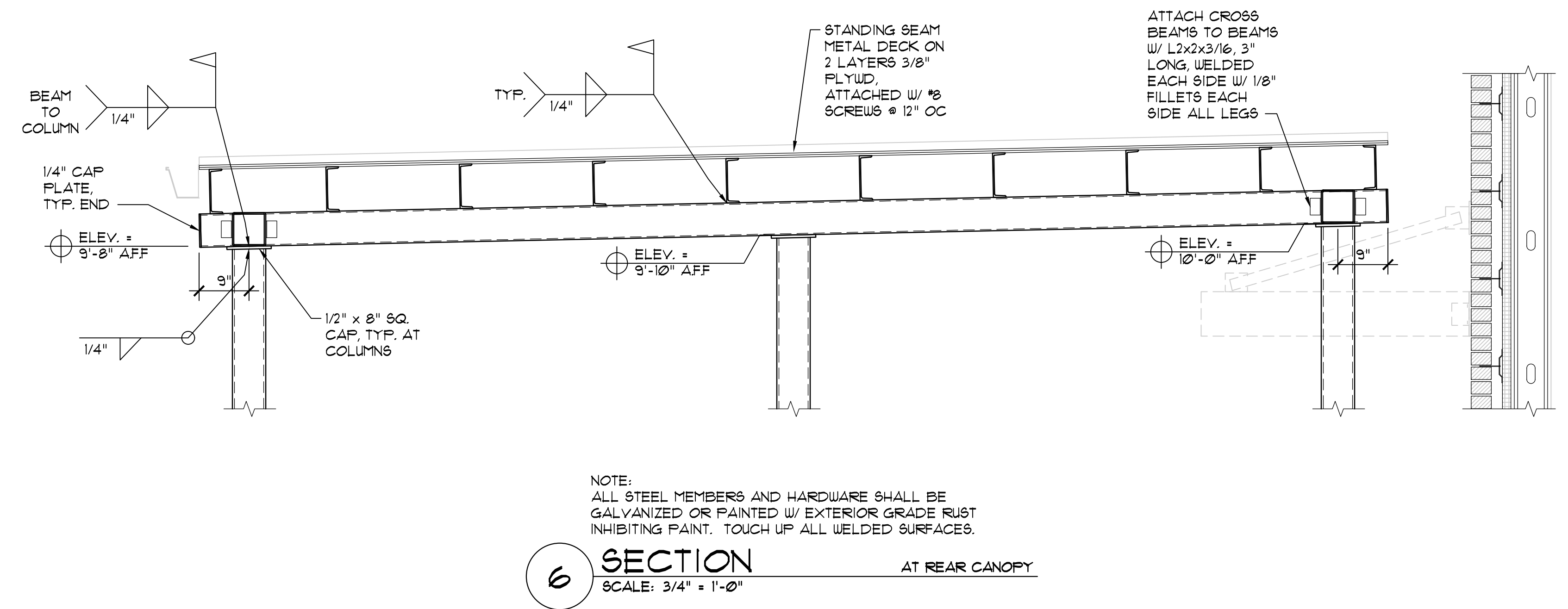
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NOTE:  
ALL STEEL MEMBERS AND HARDWARE SHALL BE GALVANIZED OR PAINTED W/ EXTERIOR GRADE RUST INHIBITING PAINT. TOUCH UP ALL WELDED SURFACES.



NOTE:  
ALL STEEL MEMBERS AND HARDWARE SHALL BE GALVANIZED OR PAINTED W/ EXTERIOR GRADE RUST INHIBITING PAINT. TOUCH UP ALL WELDED SURFACES.

ARCHITECTURE  
PLANNING  
INTERIOR DESIGN

Lyman Davidson Dooley, Inc.

1648 Powers Ferry Road  
Building One  
Marietta, GA 30067  
770.850.8494  
770.956.9030  
lddl-architects.com

REVISIONS

REGISTERED  
NO. SE000055  
STRUCTURAL  
ENGINEER  
D. WYNN HARRELL

NEW CONSTRUCTION  
**ROCKDALE FIRE STATION 10**  
ROCKDALE, GEORGIA

ROCKDALE FIRE STATION 10  
3130 GA Hwy, 138  
Conyers, GA 30013

ROCKDALE CO. FIRE DEPT.  
Fire Station No. 7  
1496 Rockridge Road  
Conyers, GA 30012

TITLE: FRAMING SECTIONS & DETAILS

STATUS: Issue for Permit

JOB: 121038.00

QC: DWH

DRAWN: DWH

SHEET: **S203**

DATE: 06/22/2022

H.K.S.E.  
HARRELL KANE STRUCTURAL ENGINEERS, INC.  
760 Old Roswell Road • STE 332  
ROSWELL, GEORGIA 30076 • PH 404.920.4780

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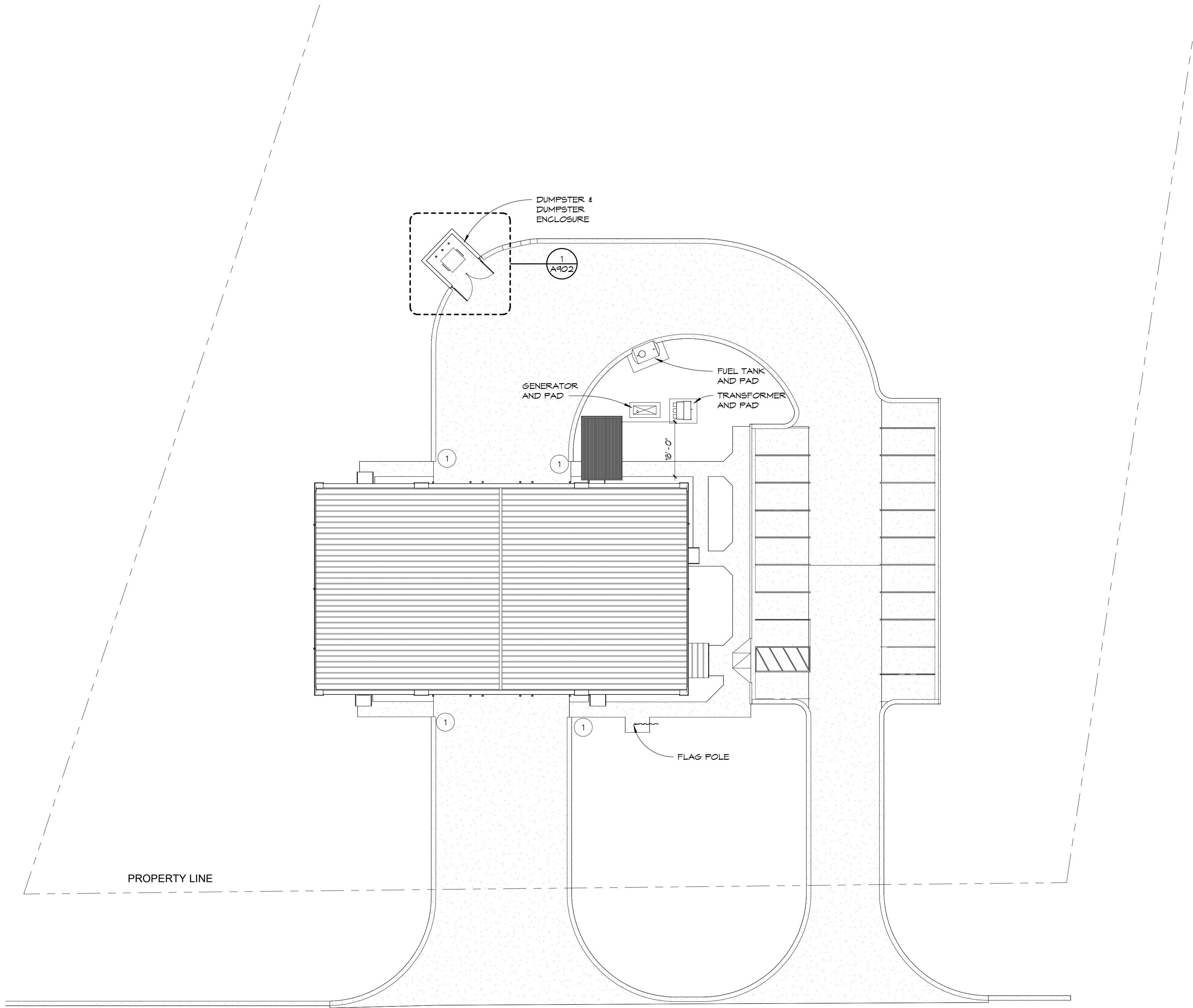
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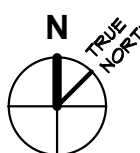
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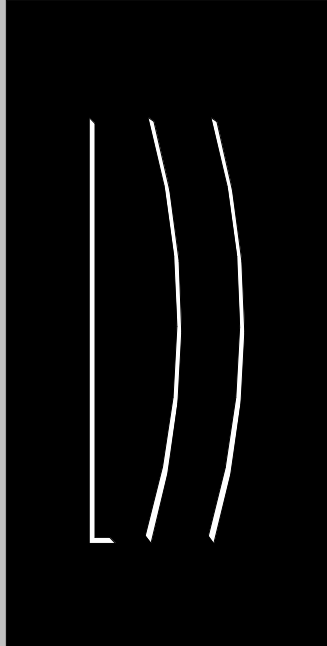


1 ARCHITECTURAL SITE PLAN  
1" = 20'-0"



**NOTE**

1 SEE CIVIL DRAWINGS FOR CURB TRANSITION DETAIL.



Lyman  
Davidson  
Dooley, Inc.  
1648 Powers Ferry Road  
Building One  
Marietta, GA 30067  
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770.956.9030 f  
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REVISIONS



NEW CONSTRUCTION  
**ROCKDALE FIRE  
STATION 10**  
ROCKDALE, GEORGIA

**ROCKDALE  
FIRE  
STATION 10**  
3130 GA Hwy. 138  
Conyers, GA 30013

**ROCKDALE  
CO. FIRE  
DEPT.**  
Fire Station No. 7  
1496 Rockridge Road  
Conyers, GA 30012

TITLE ARCHITECTURAL  
SITE PLAN

STATUS Issue for Permit

JOB 121038.00

QC Checker

DRAWN Author

SHEET **A100**

DATE 06/22/22

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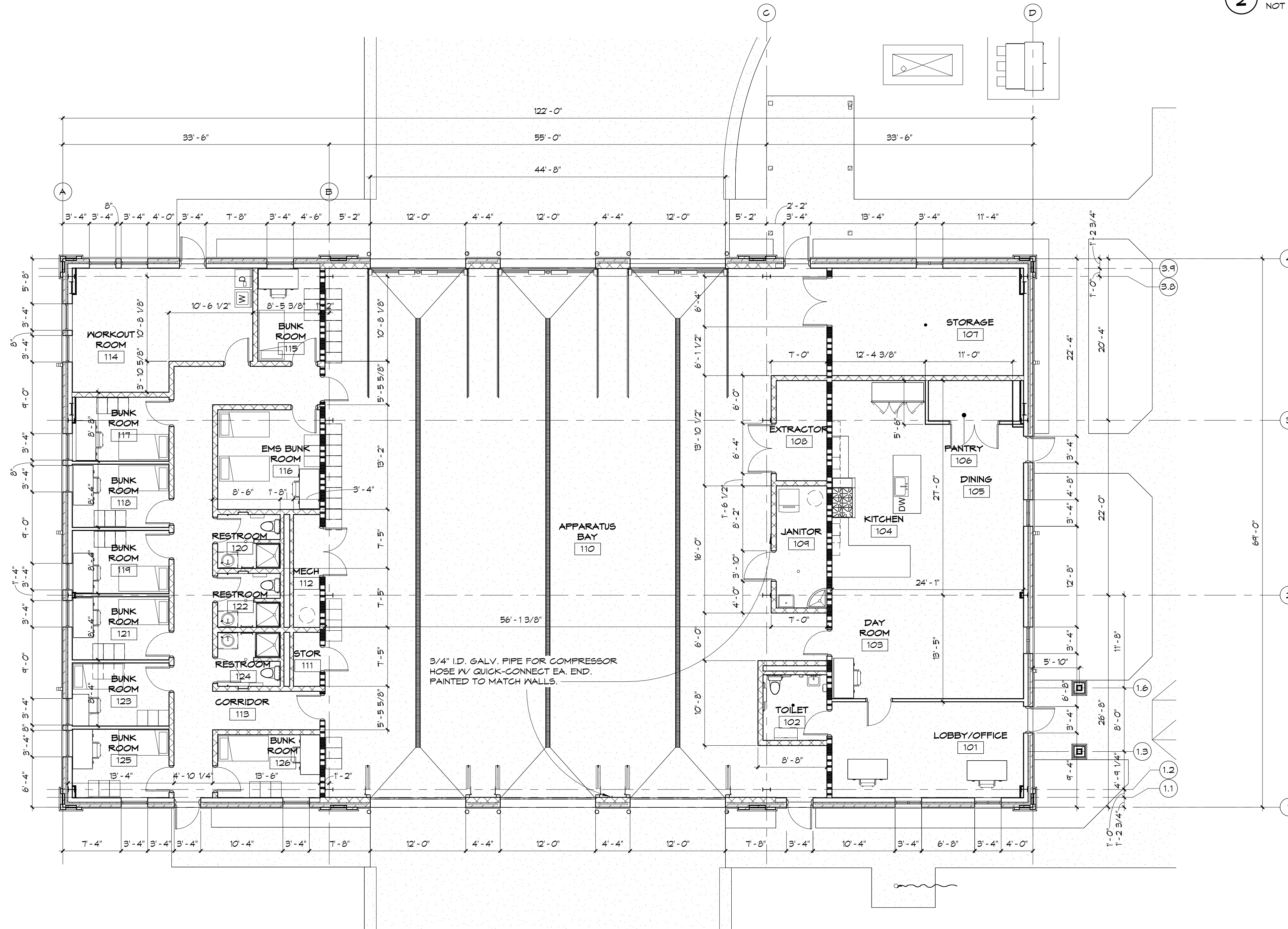
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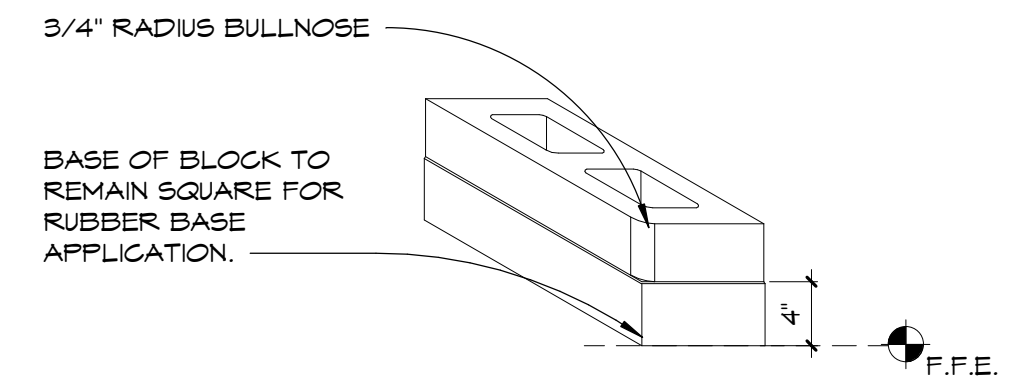
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1 FLOOR PLAN  
1/8" = 1'-0"

**NOTE**  
ALL OUTSIDE CORNERS IN CMU WALL INCLUDING MASONRY OPENINGS @ DOORWAYS TO RECEIVE 3/4" BULLNOSE.



2 CMU BULLNOSE DETAIL @ WALL BASE  
NOT TO SCALE

Lyman  
Davidson  
Dooley, Inc.

1648 Powers Ferry Road  
Building One  
Marietta, GA 30067  
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REVISIONS

NO.	DATE	DESCRIPTION



NEW CONSTRUCTION  
ROCKDALE FIRE  
STATION 10  
ROCKDALE, GEORGIA

ROCKDALE  
FIRE  
STATION 10  
3130 GA Hwy, 138  
Conyers, GA 30013

ROCKDALE  
CO. FIRE  
DEPT.  
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Conyers, GA 30012

TITLE FLOOR PLAN

STATUS Issue for Permit  
JOB 121038.00  
QC Checker

DRAWN Author

SHEET **A101A**

DATE 06/22/22

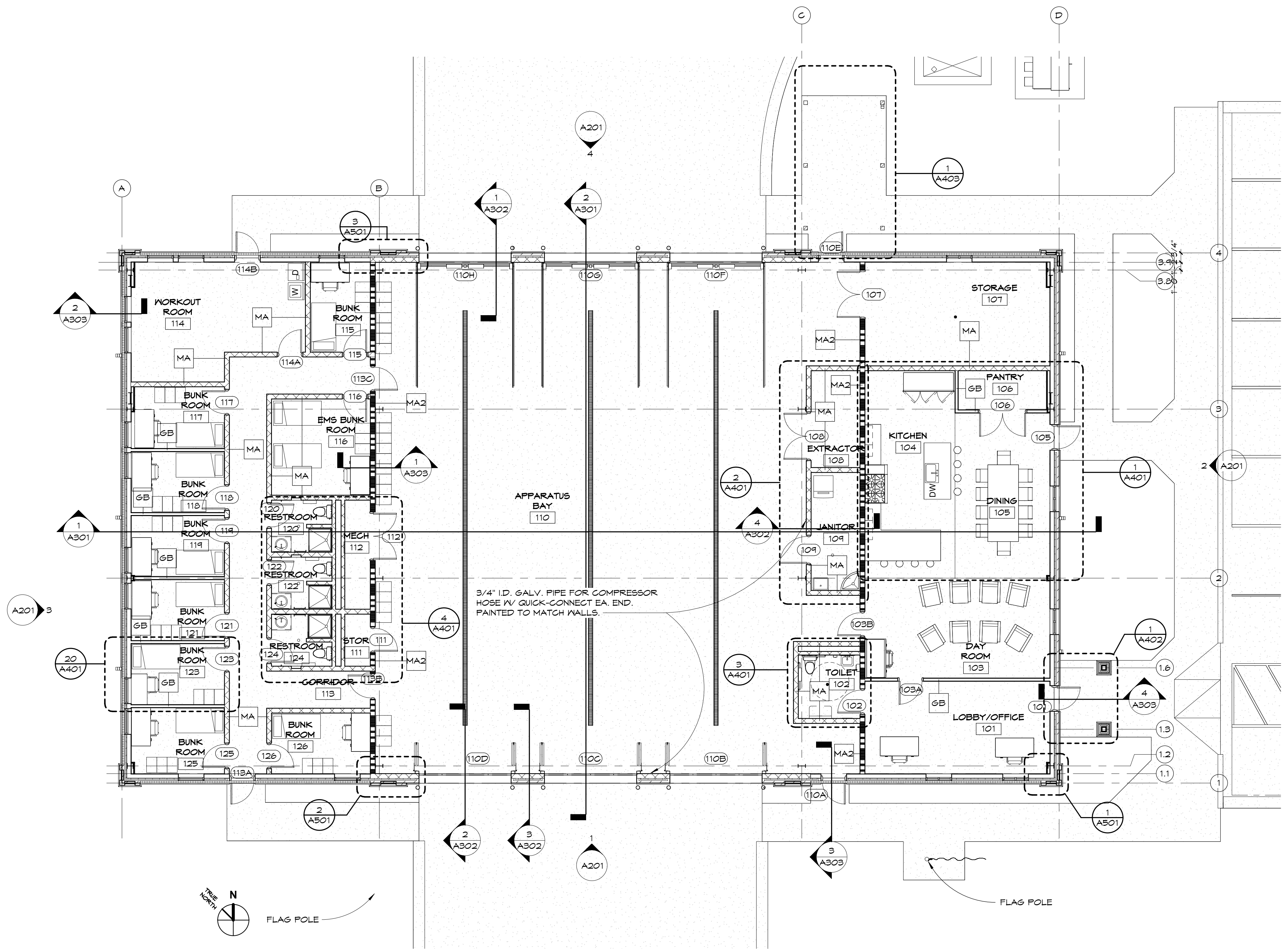


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INTERIOR WALL TYPES

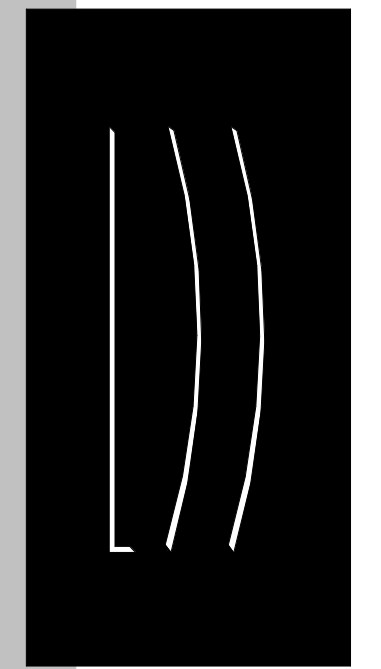
MARK	SYMBOL	DESCRIPTION	FIRE RATING	WIDTH
A		<varies>	<varies>	<varies>
GB		- 5/8" GYP. BD. - 3 5/8" MTL. STUDS - 5/8" GYP. BD.  * EXTEND TO 6" ABOVE CEILING	-	0'-4 7/8"
MA		- 8" CMU  * EXTEND TO 6" ABOVE CEILING	-	0'-7 5/8"
MA2		- 8" CMU  * EXTEND TO UNDERSIDE OF MTL. DECK ABOVE TO ACHIEVE FIRE RATING	2 HR PER UL #1905	0'-7 5/8"

NOTES:  
 1. SEE WALL SECTIONS FOR EXTERIOR WALL TYPES.  
 2. ALL METAL STUDS @ 16" O.C. MAX. SEE SPEC SECTION 05 4000 FOR MORE DETAILS.  
 3. SEE GOOS FOR RATED ASSEMBLIES & PENETRATION DETAILS.  
 4. USE TILE BACKER BOARD IN PLACE OF GYP. BD. FOR WALLS THAT USE TILE, TYP.  
 5. USE MOISTURE-RESISTANT GYP. BD. FOR NON-TILED WALLS IN RESTROOMS.  
 6. PROVIDE BULLNOSE CMU FOR EXTERIOR CORNERS OF INTERIOR SPACES.  
 7. EXPOSED SURFACES OF CMU SHALL NOT HAVE SURFACE DEFECTS THAT ARE LARGER THAN 1/2" IN DIAMETER AND 1/8" DEEP.



1 FLOOR PLAN  
 1/8" = 1'-0"

1 2 3 4 5



Lyman Davidson Dooley, Inc.  
 1548 Powers Ferry Road  
 Building One  
 Marietta, GA 30067  
 770.850.8494 f  
 770.956.9030 f  
 lddi-architects.com

REVISIONS

NO.	DESCRIPTION



NEW CONSTRUCTION  
**ROCKDALE FIRE STATION 10**  
 ROCKDALE, GEORGIA

ROCKDALE FIRE STATION 10  
 3130 GA Hwy. 138  
 Conyers, GA 30013

ROCKDALE CO. FIRE DEPT.  
 Fire Station No. 7  
 1496 Rockbridge Road  
 Conyers, GA 30012

TITLE KEY FLOOR PLAN

STATUS Issue for Permit  
 JOB 121038.00  
 QC Checker  
 DRAWN Author  
 SHEET **A101B**  
 DATE 06/22/22



1

2

3

4

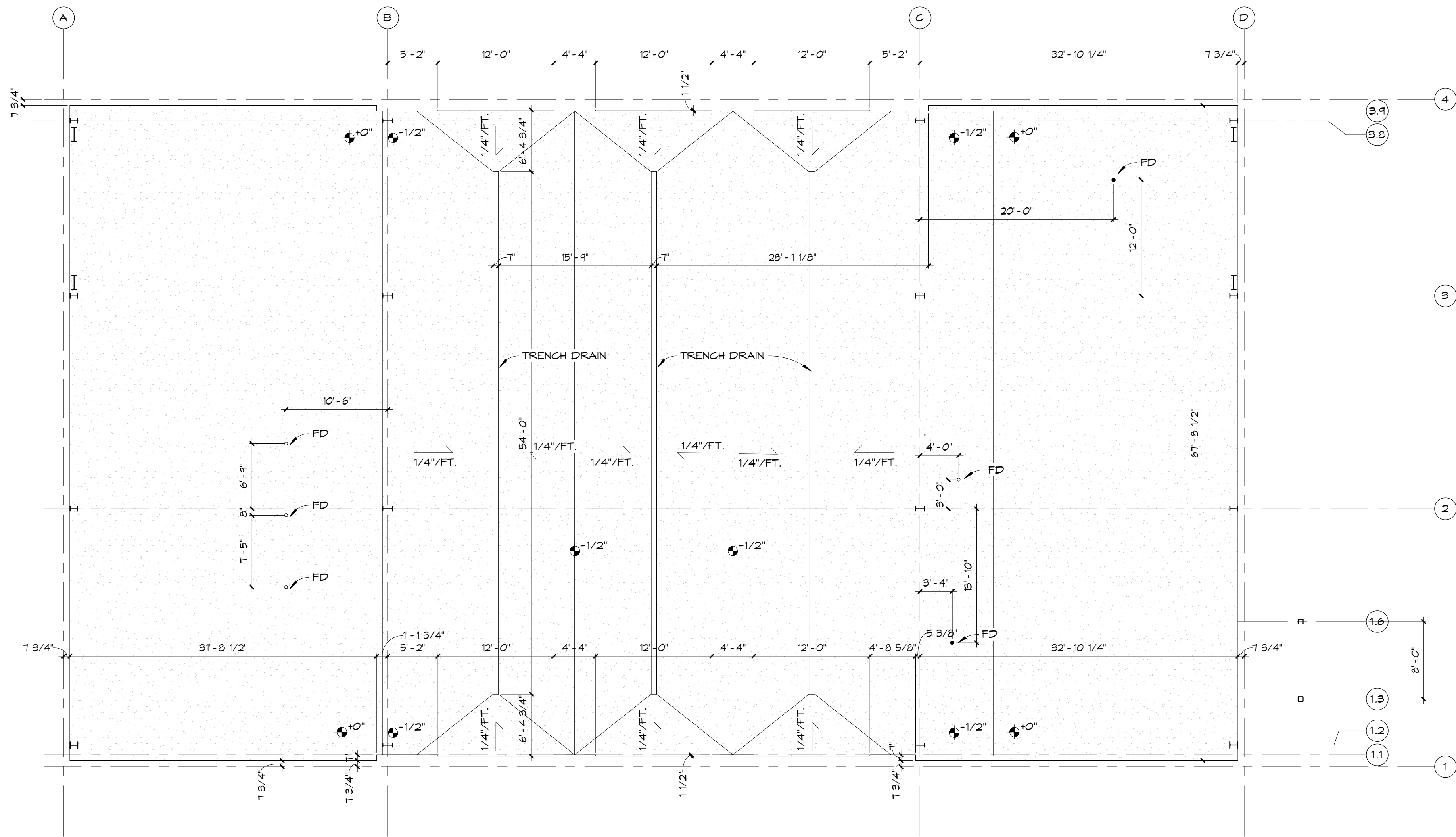
5

D

C

B

A



1 EDGE OF SLAB PLAN  
1/8" = 1'-0"

1

2

3

4

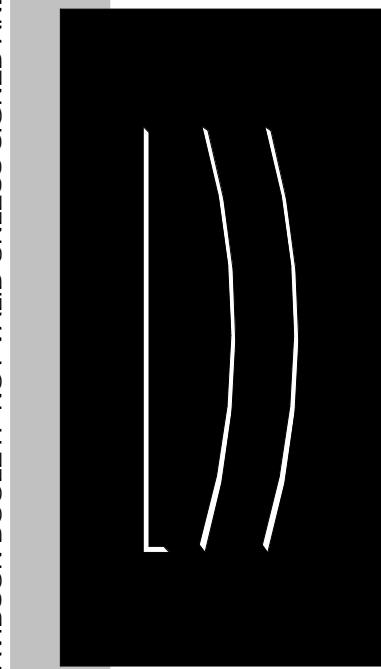
5

D

C

B

A



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Dooley, Inc.  
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Building One  
Marietta, GA 30067  
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770.956.9030 f  
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REVISIONS



NEW CONSTRUCTION  
**ROCKDALE FIRE  
STATION 10**  
ROCKDALE, GEORGIA

ROCKDALE  
FIRE  
STATION 10  
3130 GA Hwy. 138  
Conyers, GA 30013

ROCKDALE  
CO. FIRE  
DEPT.  
Fire Station No. 7  
1496 Rockridge Road  
Conyers, GA 30012

TITLE  
EDGE OF SLAB  
PLAN

STATUS  
Issue for Permit

JOB  
121038.00

QC  
Checker

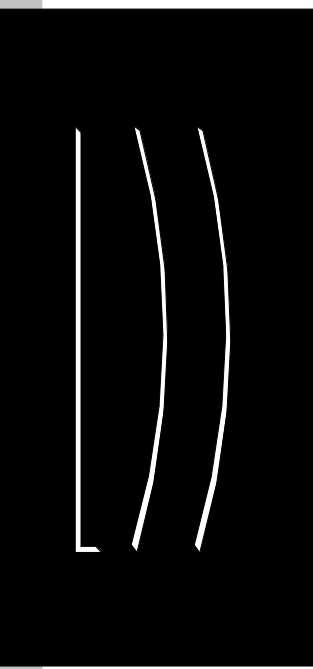
DRAWN  
Author

SHEET  
**A101C**

DATE  
06/22/22

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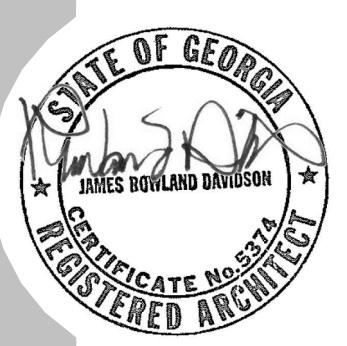




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REVISIONS



NEW CONSTRUCTION  
**ROCKDALE FIRE  
STATION 10**  
ROCKDALE, GEORGIA

**ROCKDALE  
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Conyers, GA 30013

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Fire Station No. 7  
1496 Rockbridge Road  
Conyers, GA 30012

TITLE REFLECTED  
CEILING PLAN

STATUS Issue for Permit  
JOB 121038.00  
QC Checker

DRAWN Author

SHEET **A102**

DATE 06/22/22

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## R.C.P. LEGEND

TYPE	HEIGHT	CEILING TYPE AND HEIGHT TAG:
A1:		ACOUSTICAL CEILING TILE
A2:		ACOUSTICAL CEILING TILE (MOISTURE-RESISTANT)
A3:		ACOUSTICAL CEILING TILE (FOOD SERVICE)
A4:		LINER PANEL BY BUILDING MANUFACTURER

### NOTES:

- PROVIDE EMERGENCY LIGHTING, STROBES, ALARMS, FIRE PULLS AND SMOKE DETECTORS AS REQUIRED BY CODE.
- NOTIFY ARCHITECT IMMEDIATELY OF ANY CLEARANCE CONFLICTS WITH LIGHT FIXTURES DUE TO EXISTING OR RELOCATED ITEMS (DUCTWORK, SPRINKLER LINES, ETC.) ABOVE CEILING.
- SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL EQUIPMENT IN THE CEILING.

- EACH INDIVIDUAL FIXTURE & ATTACHMENTS WITH A COMBINED WEIGHT OF 56 LBS OR LESS SHALL HAVE TWO NO. 12 GAUGE WIRE HANGERS ATTACHED AT DIAGONAL CORNERS OF THE FIXTURE. THESE WIRES MUST BE SLACK. ANY FIXTURE AND ATTACHMENTS WITH A COMBINED WEIGHT GREATER THAN 56 LBS MUST BE INDEPENDENTLY SUPPORTED FROM THE STRUCTURE.
  - THE MAIN RUNNER/CROSS RUNNER INTERSECTIONS & ALL GRID SPLICES MUST HAVE AN AVERAGE ULTIMATE TEST STRENGTH OF 60 LBS OR MORE IN BOTH TENSION & COMPRESSION. THE TENSILE TEST MUST ALLOW FOR A 50 DEGREE OFFSET OF THE CONNECTION IN ANY DIRECTION.
  - THE ACTUAL AVERAGE WEIGHT OF THE CEILING SYSTEM, INCLUDING GRID, PANEL OR TILE, LIGHT FIXTURES & AIR TERMINALS MUST BE 2.5 LBS/SF OR LESS. ALL OTHER SERVICES MUST BE SUPPORTED INDEPENDENTLY FROM THE CEILING SYSTEM. FOR CEILINGS THAT HAVE AN AVERAGE WEIGHT GREATER THAN 2.5 LBS/SF, THE CEILING MAY BE INSTALLED AS SPECIFIED IN ZONE 3-4 PROVISIONS, TAKING INTO ACCOUNT THE DESIGN LATERAL FORCE FACTOR APPROPRIATE FOR ZONE 2. OTHER DEVIATIONS OR VARIATIONS MUST BE SUBSTANTIATED BY VERIFIABLE ENGINEERING DATA.
  - THE CEILING SYSTEM CANNOT BE USED TO PROVIDE LATERAL SUPPORT FOR WALLS OR PARTITIONS. WALLS OR PARTITIONS MAY BE ATTACHED TO THE CEILING GRID PROVIDED THEY ALLOW THE CEILING MEMBRANE TO MOVE Laterally TO ACCOMMODATE THE REQUIRED CLEARANCE AS SPECIFIED BELOW.
  - ALL PERIMETER CLOSURE ANGLES OR CHANNELS MUST PROVIDE A SUPPORT LEDGE OF APPROXIMATELY 1/8" IN. OR GREATER. A TERMINAL END OF A GRID MEMBER (OR TILE) MUST REST ON THE LEDGE OR MOLDING WITH AT LEAST 3/8" IN. CLEARANCE FROM AN EDGE OR WALL AS SHOWN IN FIGURE 1.
- REVEAL (SHADOW) EDGE WALL CLOSURES SHOULD ACCOMMODATE THESE CLEARANCES AS SHOWN IN FIGURE 2.
- FOR PERIMETER CLOSURE ANGLES THAT PROVIDE A SUPPORT LEDGE OF LESS THAN NOTED ABOVE, THE TERMINAL ENDS OF EACH CROSS RUNNER OR MAIN RUNNER SHALL BE INDEPENDENTLY SUPPORTED WITHIN 8" IN. FROM EACH WALL OR CEILING DISCONTINUITY AS SHOWN IN FIGURE 3. THIS SUPPORT MAY BE A NO. 12 GAUGE HANGER WIRE OR OTHER SUPPORT THAT PREVENTS THE GRID FROM FALLING. THIS WIRE DOES NOT NEED TO BE VERTICAL BUT SHOULD NOT HAVE A SLOPE GREATER THAN 1 IN 6 OUT-OF-PLUMB. A 3/8" IN. GRID END CLEARANCE FROM A WALL SHOULD BE MAINTAINED.
- ALL CEILING PENETRATIONS (COLUMNS, SPRINKLERS, ETC.) & INDEPENDENTLY SUPPORTED FIXTURES OR SERVICES ARE TO BE CONSIDERED AS PERIMETER CLOSURES THAT MUST ALSO ALLOW THE NOTED CLEARANCES BY USING SUITABLE ESCUTCHEONS OR CLOSURE DETAILS.
  - AT WALL CLOSURE LEDGES, THE CROSS RUNNER & MAIN RUNNER ENDS SHALL BE PREVENTED FROM SPREADING APART FROM EACH OTHER. PERMANENT ATTACHMENT (I.E., POP RIVETS) FOR GRID ALIGNMENT PURPOSES SHALL NOT BE PERMITTED.
  - FOR ESSENTIAL FACILITIES, PERIMETER SUPPORT OF EACH CROSS RUNNER & MAIN RUNNER, AS AFOREMENTIONED IN ITEM 5, IS REQUIRED. IN ADDITION, A 1/2" IN. GRID END CLEARANCE FROM A WALL SHOULD BE MAINTAINED.

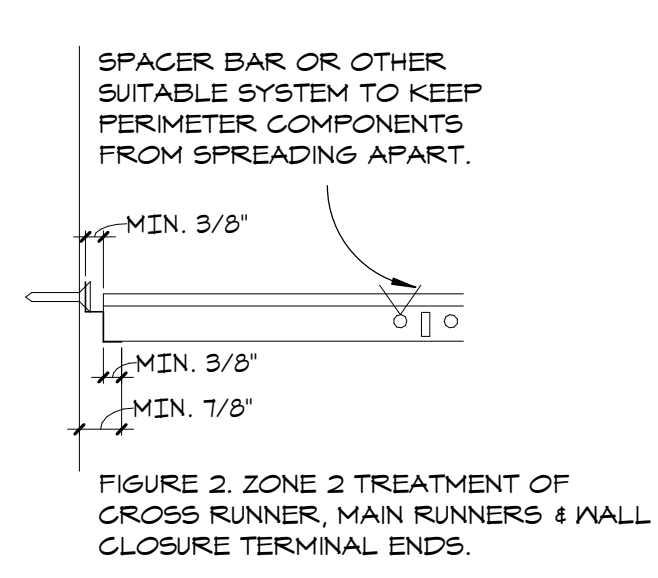


FIGURE 2. ZONE 2 TREATMENT OF CROSS RUNNER, MAIN RUNNERS & WALL CLOSURE TERMINAL ENDS.

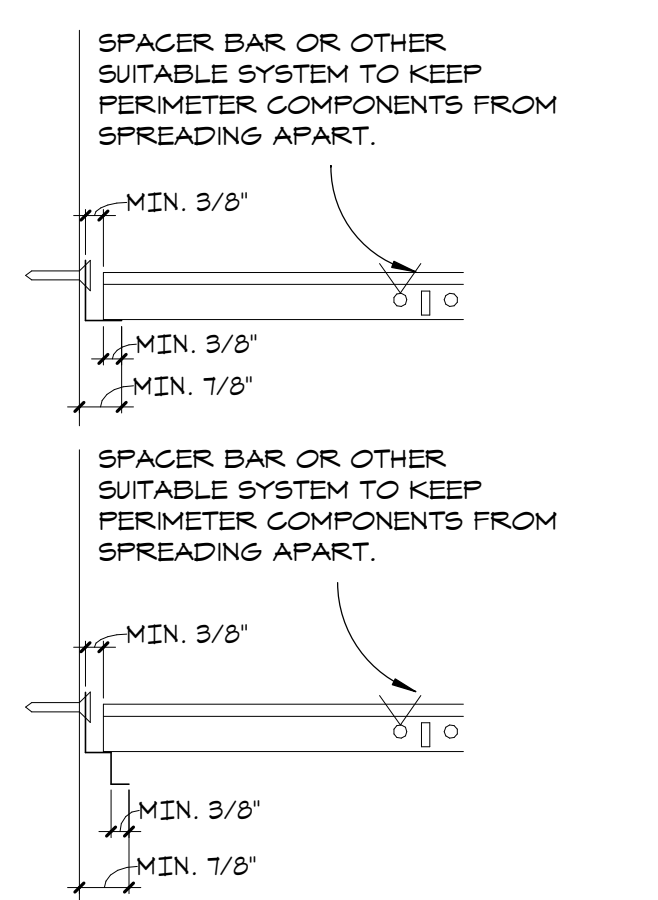


FIGURE 3. ZONE 2 TREATMENT OF CROSS RUNNERS & MAIN RUNNERS AT TERMINAL ENDS WHEN SUPPORT LEDGE OF PERIMETER CLOSURE IS LESS THAN 1/8\"/>

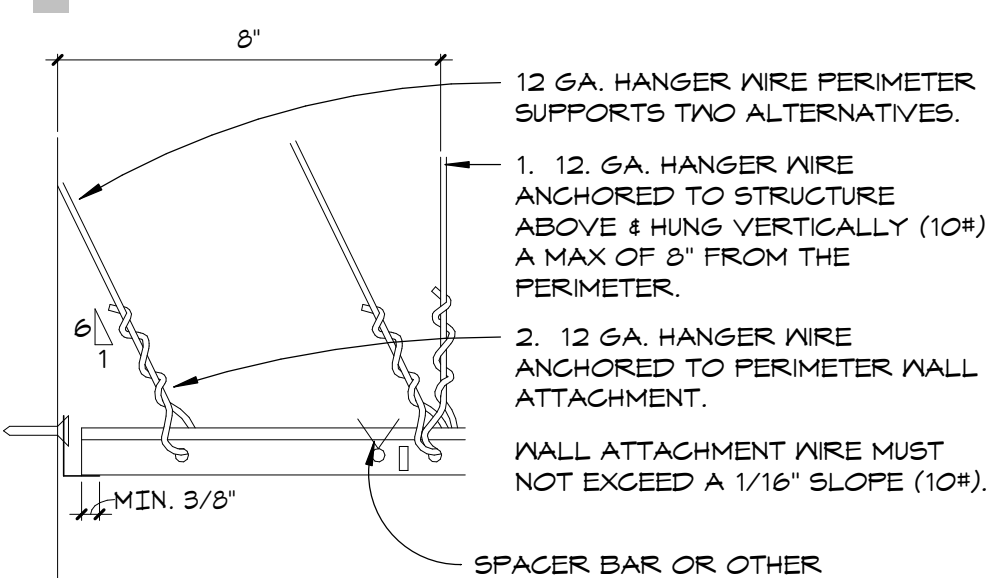
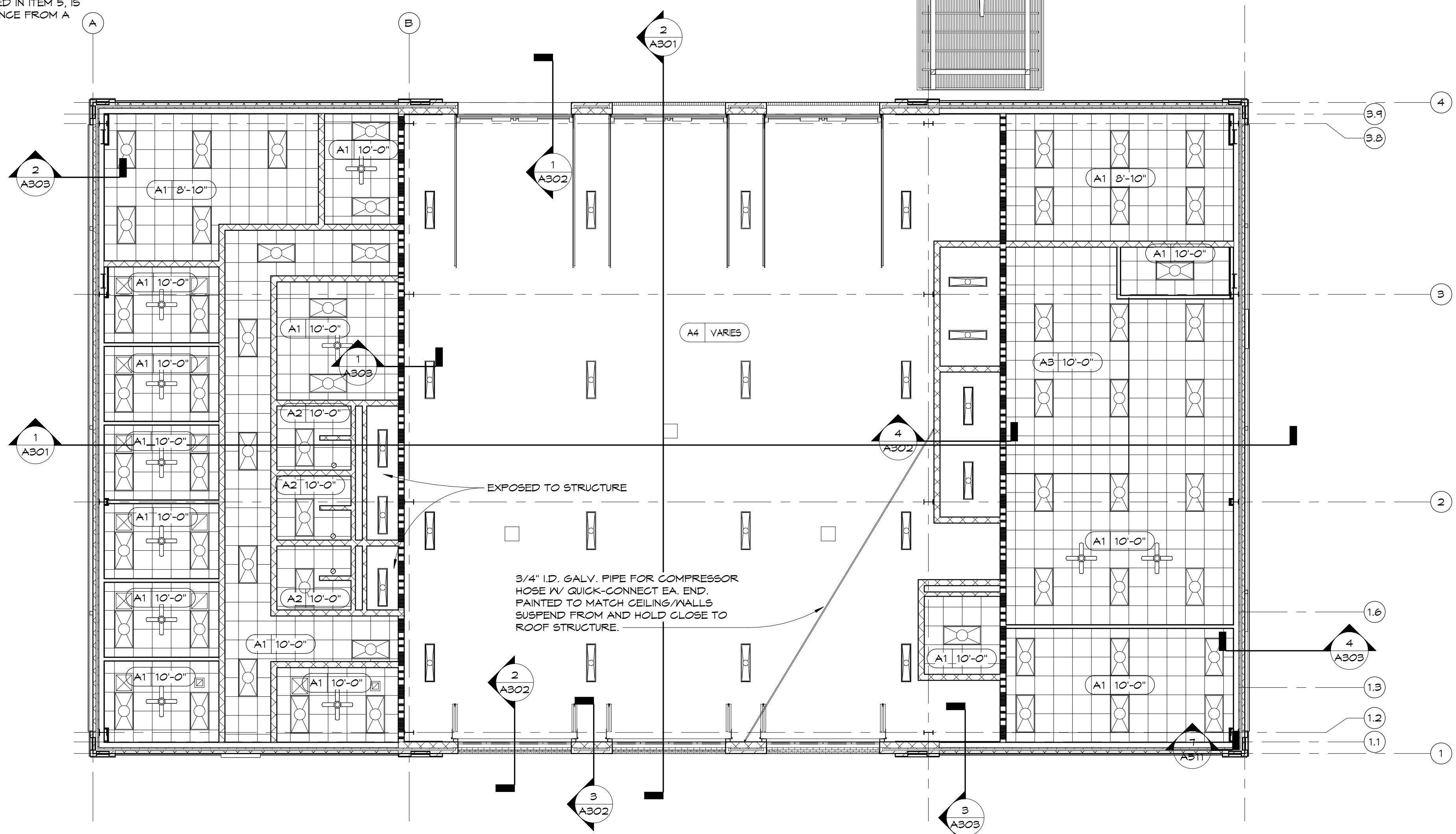


FIGURE 3. ZONE 2 TREATMENT OF CROSS RUNNERS & MAIN RUNNERS AT TERMINAL ENDS WHEN SUPPORT LEDGE OF PERIMETER CLOSURE IS LESS THAN 1/8\"/>

## 2 SUSPENDED GRID SEISMIC DETAILS

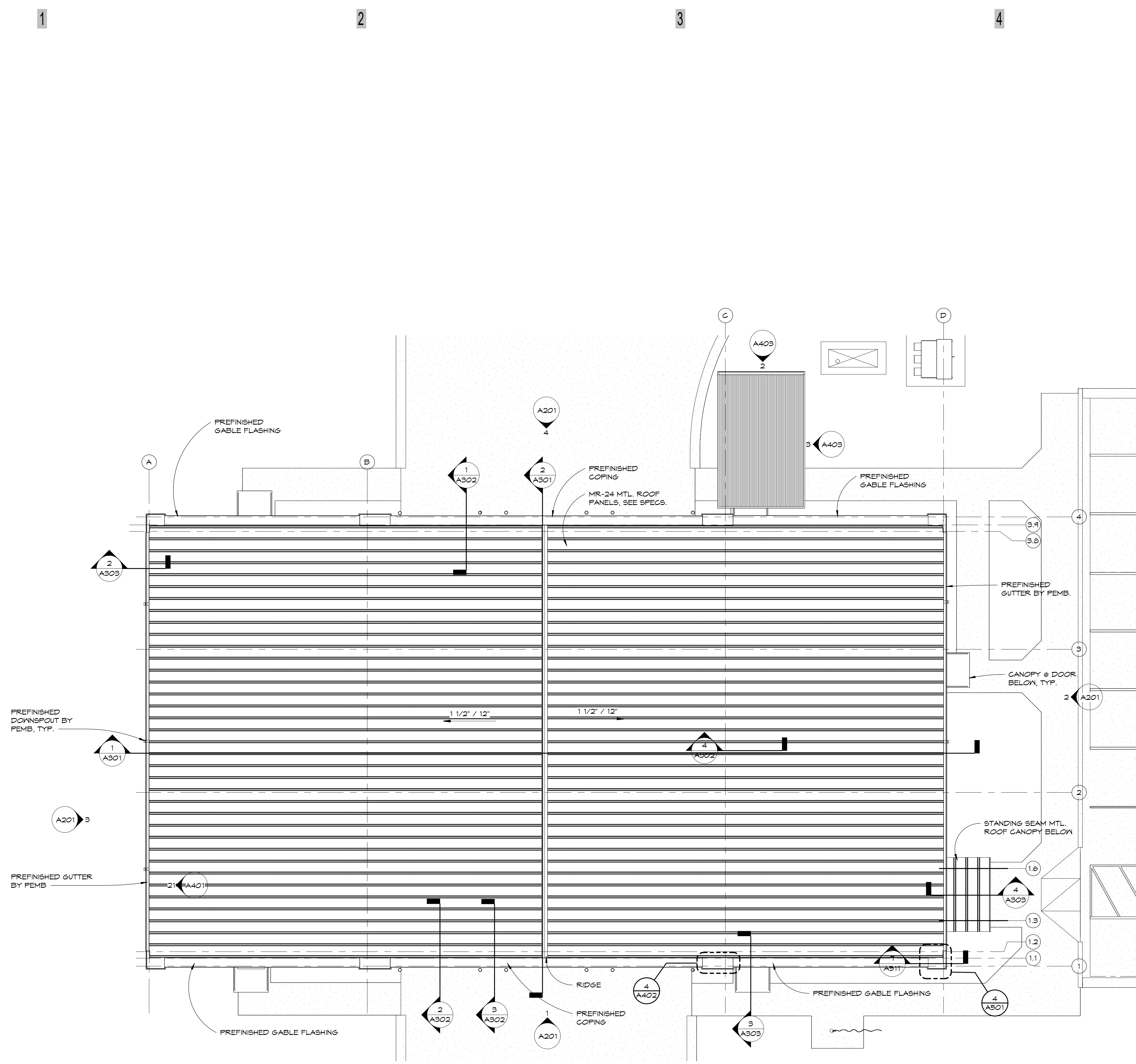
NOT TO SCALE (THESE DETAILS APPLY TO ROOMS OVER 144 SF.)



## 1 REFLECTED CEILING PLAN

1/8" = 1'-0"

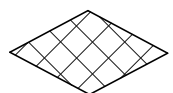


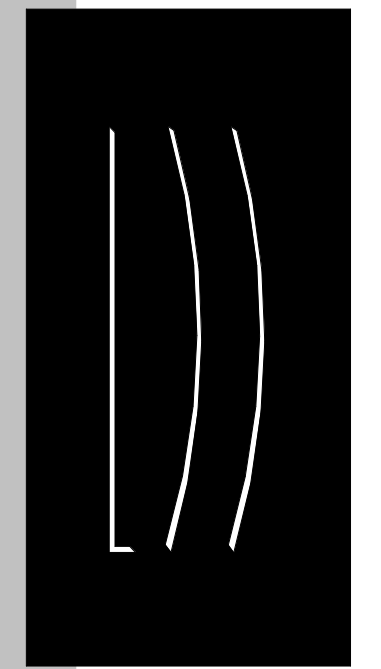


1 ROOF PLAN  
1/8" = 1'-0"

### ROOF NOTES

1. SEE MECHANICAL/PLUMBING DRAWINGS FOR ADDITIONAL NOTES AND DETAILS.
2. VERIFY LOCATIONS OF ALL ROOF PENETRATIONS WITH STRUCTURAL, MECHANICAL AND PLUMBING DRAWINGS.
3. ALL VENT LOCATIONS SHOULD BE VERIFIED WITH MECHANICAL AND PLUMBING DRAWINGS.
4. ALL COPINGS SHALL SLOPE A MINIMUM OF 1/4" PER FOOT TOWARD THE ROOF.
5. ALL CRICKETS SHALL SLOPE A MINIMUM OF 1/2" PER FOOT.
6. ALL WOOD BLOCKING TO BE FIRE RETARDANT PRESSED TREATED.


INDICATES CRICKET OR TAPERED INSULATION



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NEW CONSTRUCTION  
**ROCKDALE FIRE STATION 10**  
 ROCKDALE, GEORGIA

**ROCKDALE FIRE STATION 10**  
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Conyers, GA 30013

**ROCKDALE CO. FIRE DEPT.**  
Fire Station No. 7  
1496 Rockbridge Road  
Conyers, GA 30012

TITLE ROOF PLAN

STATUS Issue for Permit  
JOB 121038.00  
QC Checker

DRAWN Author

SHEET **A103**

DATE 06/22/22



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NO.	DATE	DESCRIPTION



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TITLE EXTERIOR ELEVATIONS

STATUS Issue for Permit

JOB 121038.00

QC Checker

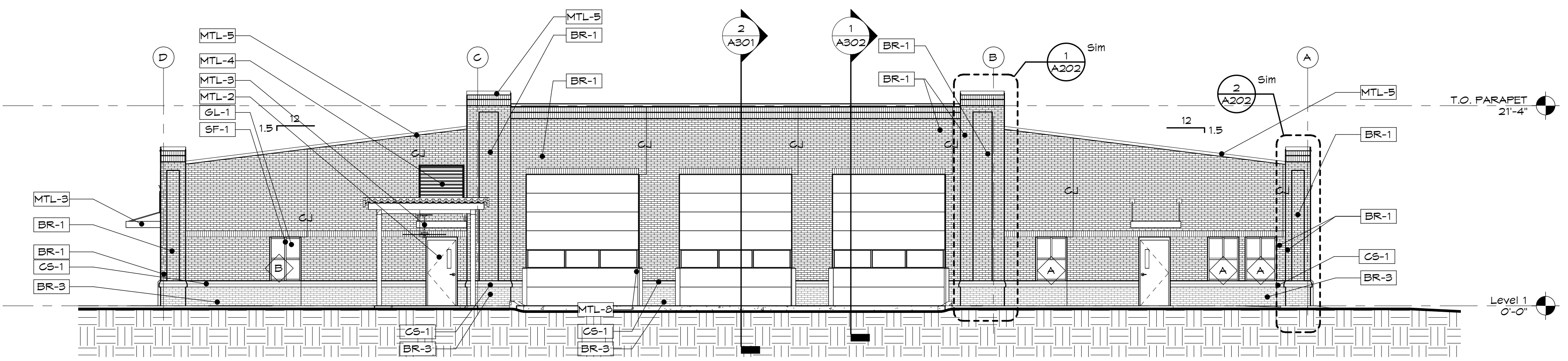
DRAWN Author

SHEET **A201**

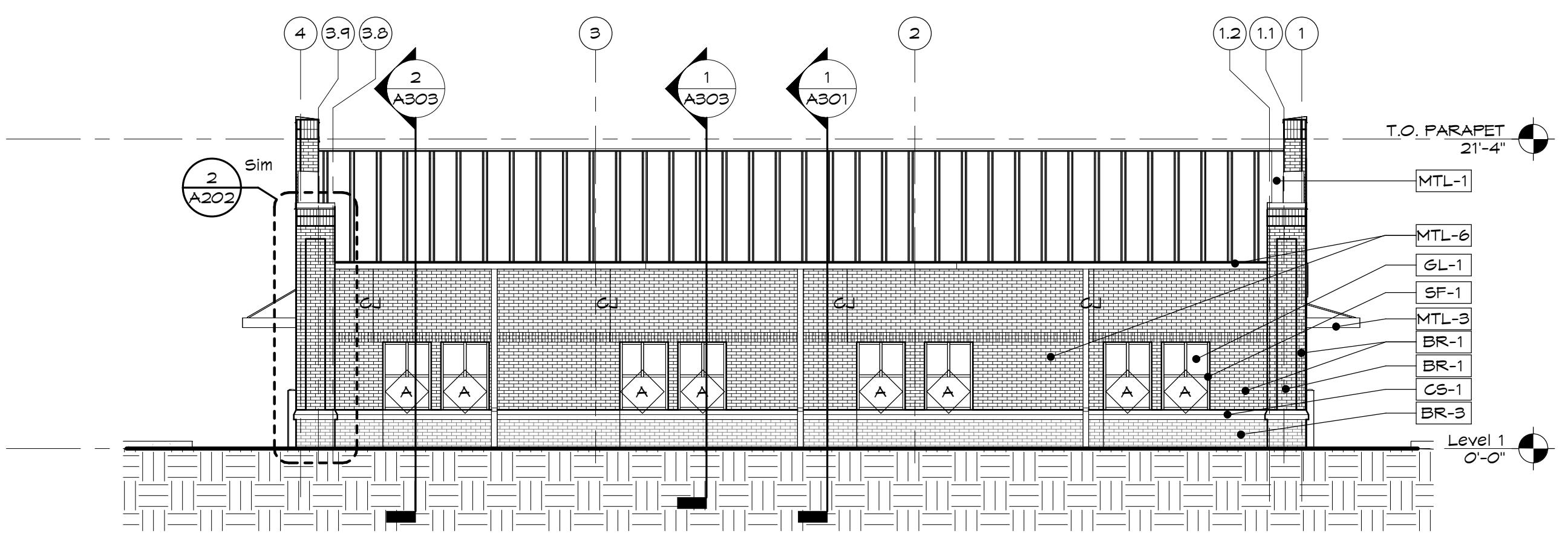
DATE 06/22/22

EXTERIOR FINISHES		
MARK	MATERIAL	COMMENTS
	<varies>	<varies>
BR-1	BRICK VENEER	CHEROKEE - STRATTON
BR-2	BRICK VENEER	COLOR TO BE SELECTED BY OWNER
BR-3	BRICK VENEER	CHEROKEE - LIGHT VELOUR GRAY
CS-1	CAST STONE	ROCKCAST - STARBUCK
GL-1	1" INS. LOW-E GLAZING	PILKINGTON ECLIPSE ADVANTAGE GREY
MTL-1	STANDING SEAM METAL	TO MATCH S/A 7675 - SEALSKIN
MTL-2	H.M. EXTERIOR DOOR	TO MATCH S/A 7675 - SEALSKIN
MTL-3	PREFINISHED ALUM. CANOPY	TO MATCH S/A 7675 - SEALSKIN
MTL-4	LOUVERS	TO MATCH S/A 7675 - SEALSKIN
MTL-5	Metal Coping	TO MATCH S/A 7675 - SEALSKIN
MTL-6	Metal - Gutters & DS	TO MATCH S/A 7675 - SEALSKIN
MTL-7	FOUR-FOLD DOORS	TO MATCH S/A 7675 - SEALSKIN
MTL-8	OVERHEAD DOORS	TO MATCH S/A 7675 - SEALSKIN
SF-1	PREFINISHED ALUM. STOREFRONT	TO MATCH S/A 7675 - SEALSKIN

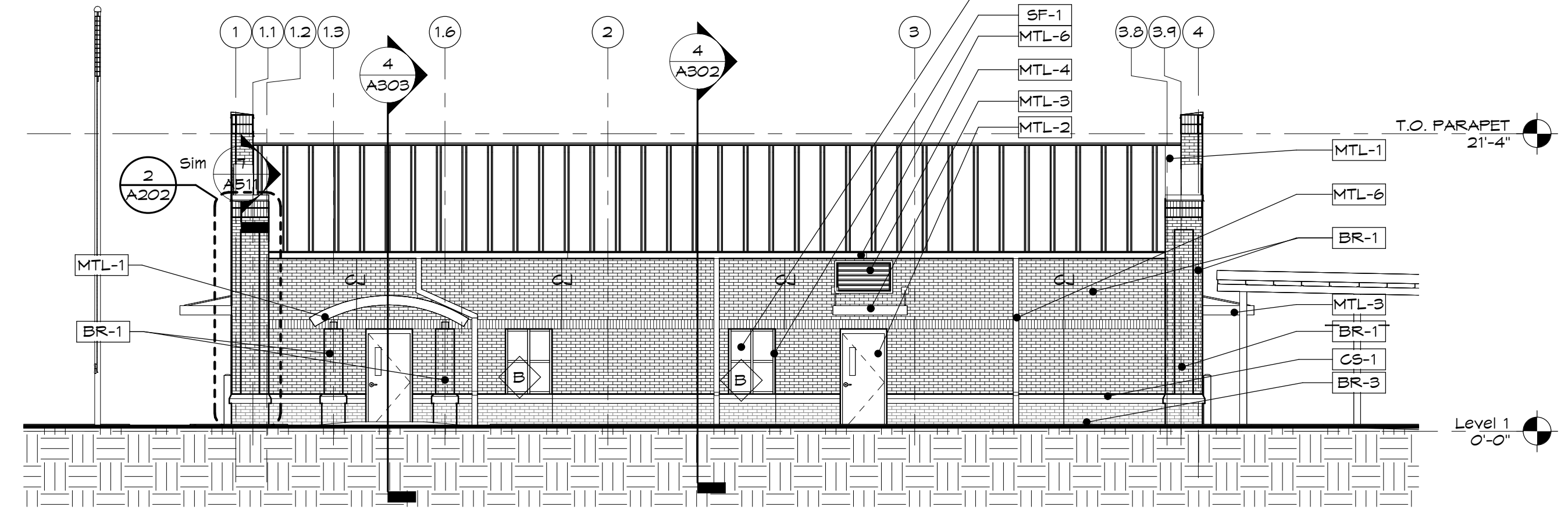
NOTE: ALL EXTERIOR GROUT TO BE ARGOS - SAHARA. SEE SPECS.  
NOTE: CONTRACTOR TO SUBMIT SAMPLES AND TO BUILD SAMPLE WALL BEFORE ORDERING MATERIALS (SEE SPECS.)



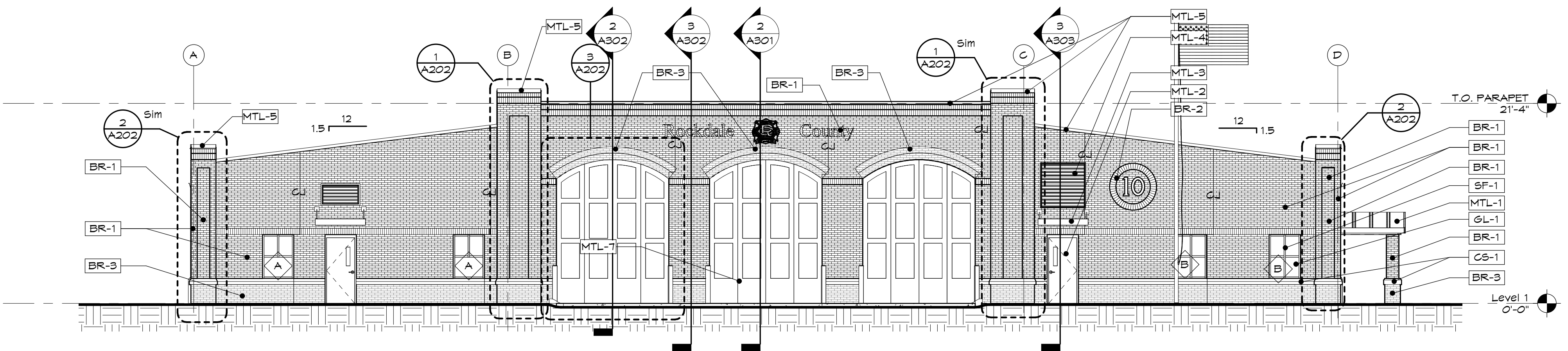
**4 NORTH ELEVATION**  
1/8" = 1'-0"



**3 WEST ELEVATION**  
1/8" = 1'-0"



**2 EAST ELEVATION**  
1/8" = 1'-0"

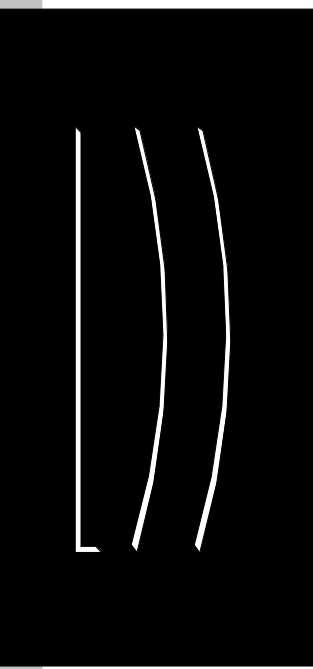


**1 SOUTH ELEVATION**  
1/8" = 1'-0"









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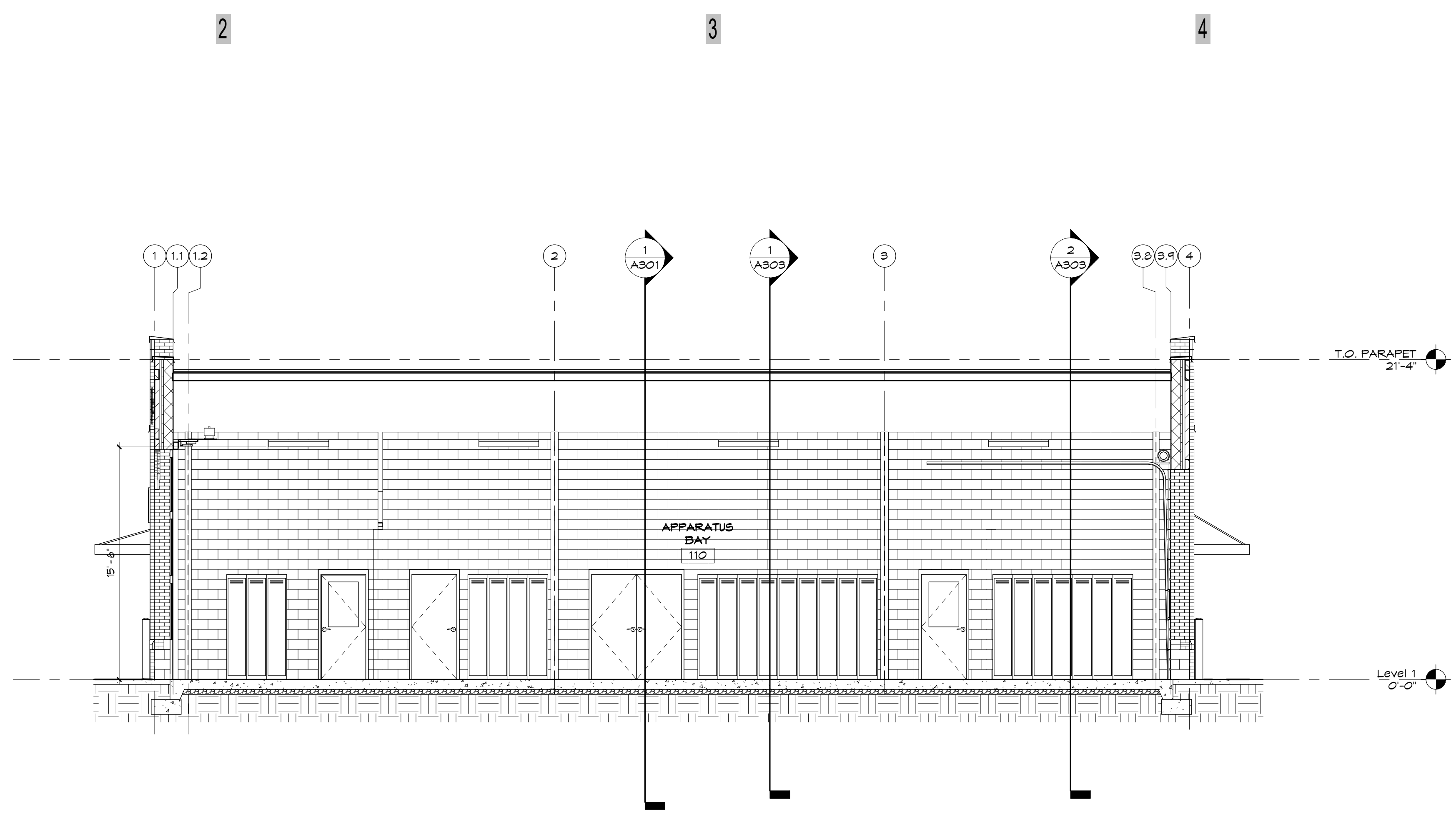


NEW CONSTRUCTION  
**ROCKDALE FIRE  
STATION 10**  
ROCKDALE, GEORGIA

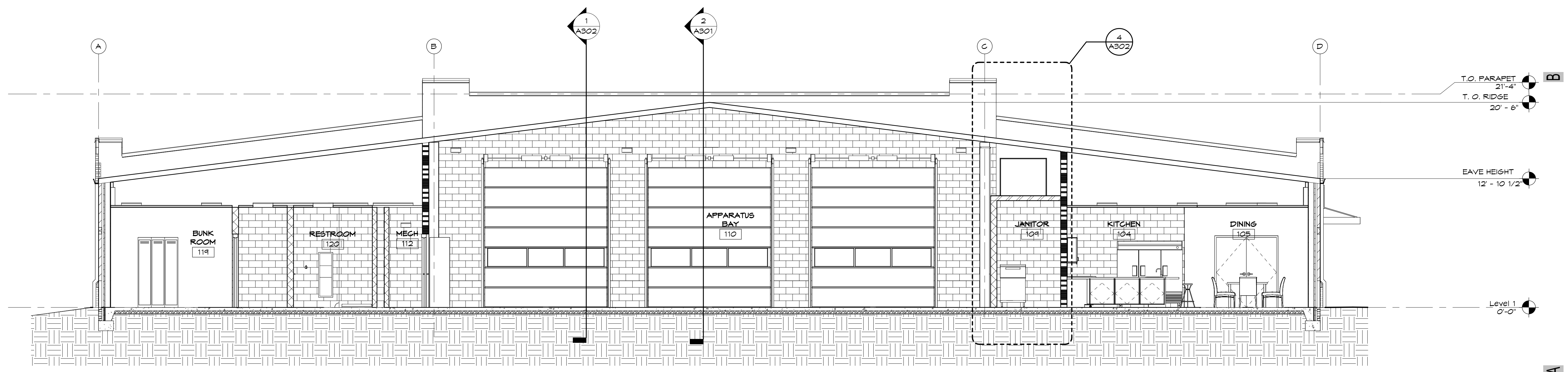
**ROCKDALE  
FIRE  
STATION 10**  
3130 GA Hwy, 138  
Conyers, GA 30013

**ROCKDALE  
CO. FIRE  
DEPT.**  
Fire Station No. 7  
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TITLE	BUILDING SECTIONS
STATUS	Issue for Permit
JOB	121038.00
QC	Checker
DRAWN	Author
SHEET	<b>A301</b>
DATE	06/22/22



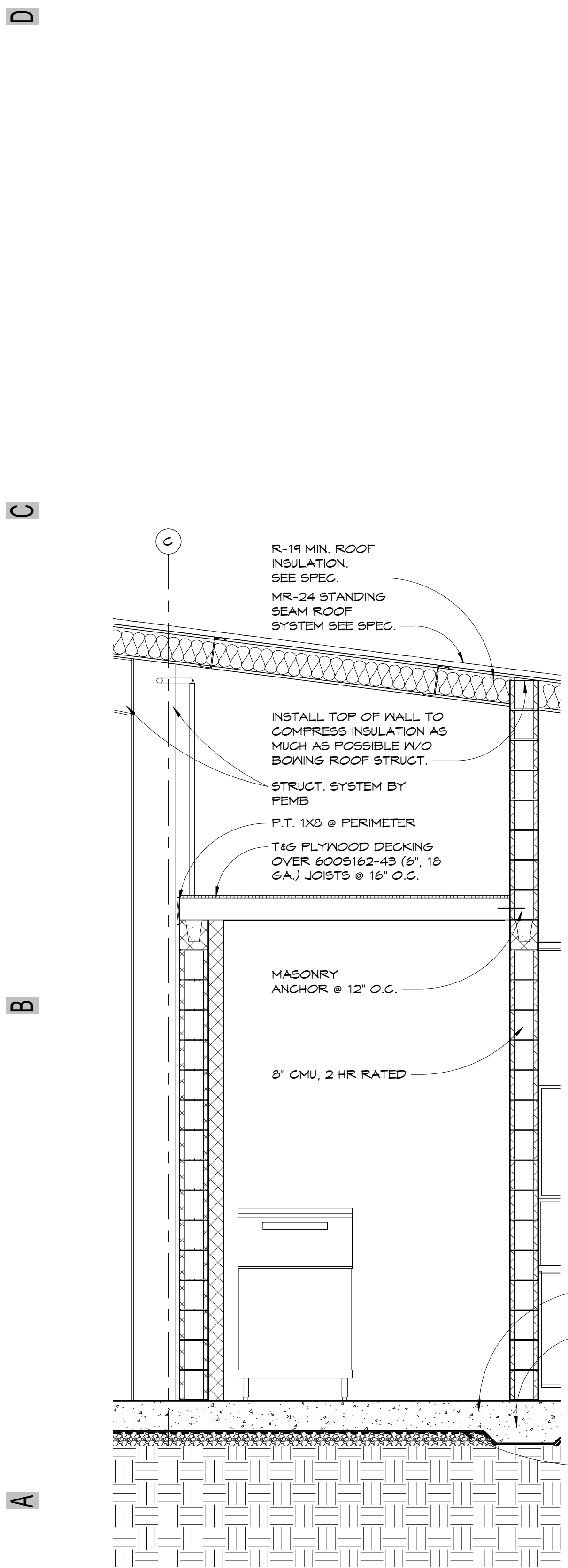
**2 BUILDING SECTION**  
3/16" = 1'-0"



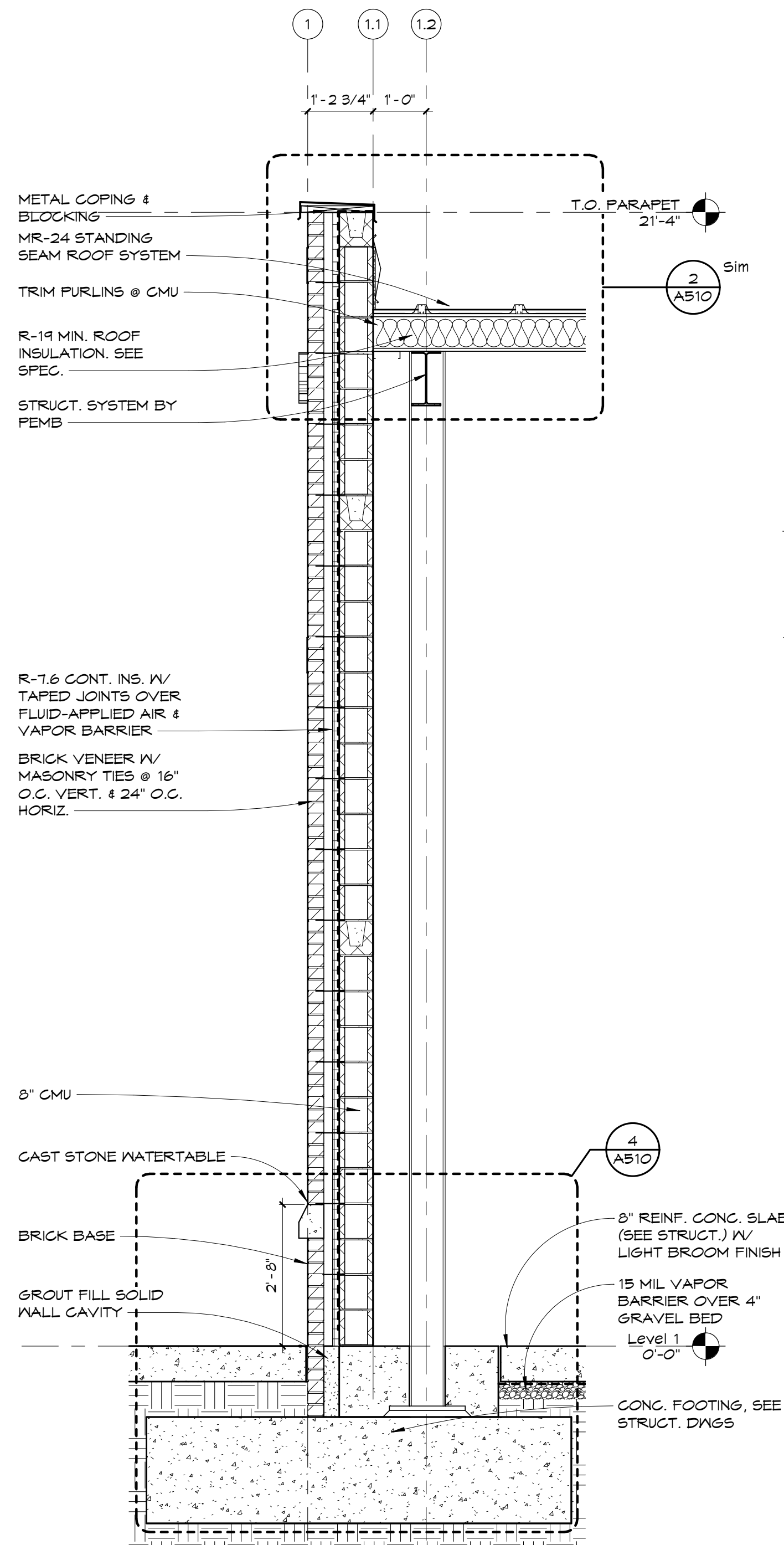
**1 BUILDING SECTION**  
3/16" = 1'-0"

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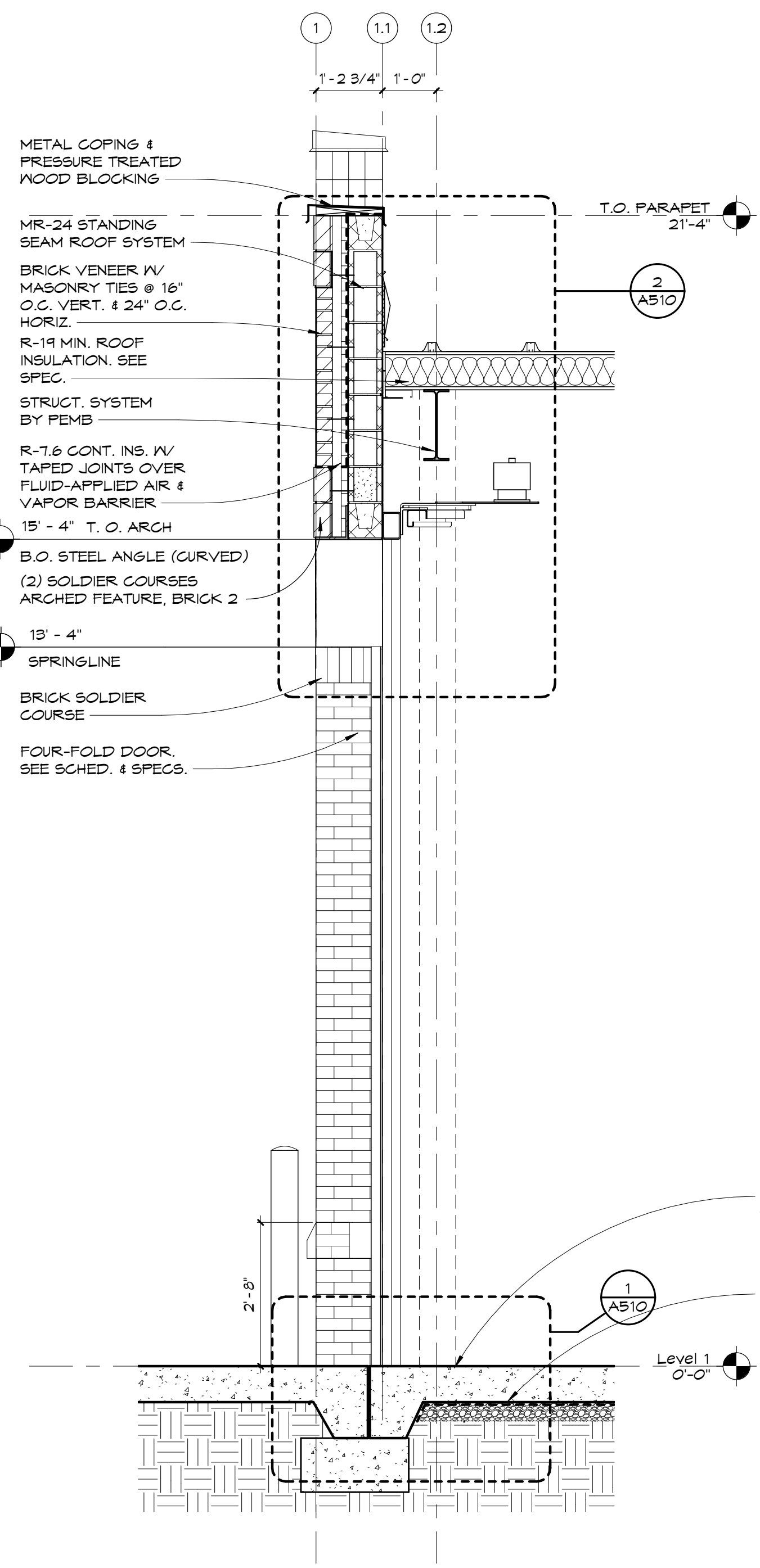
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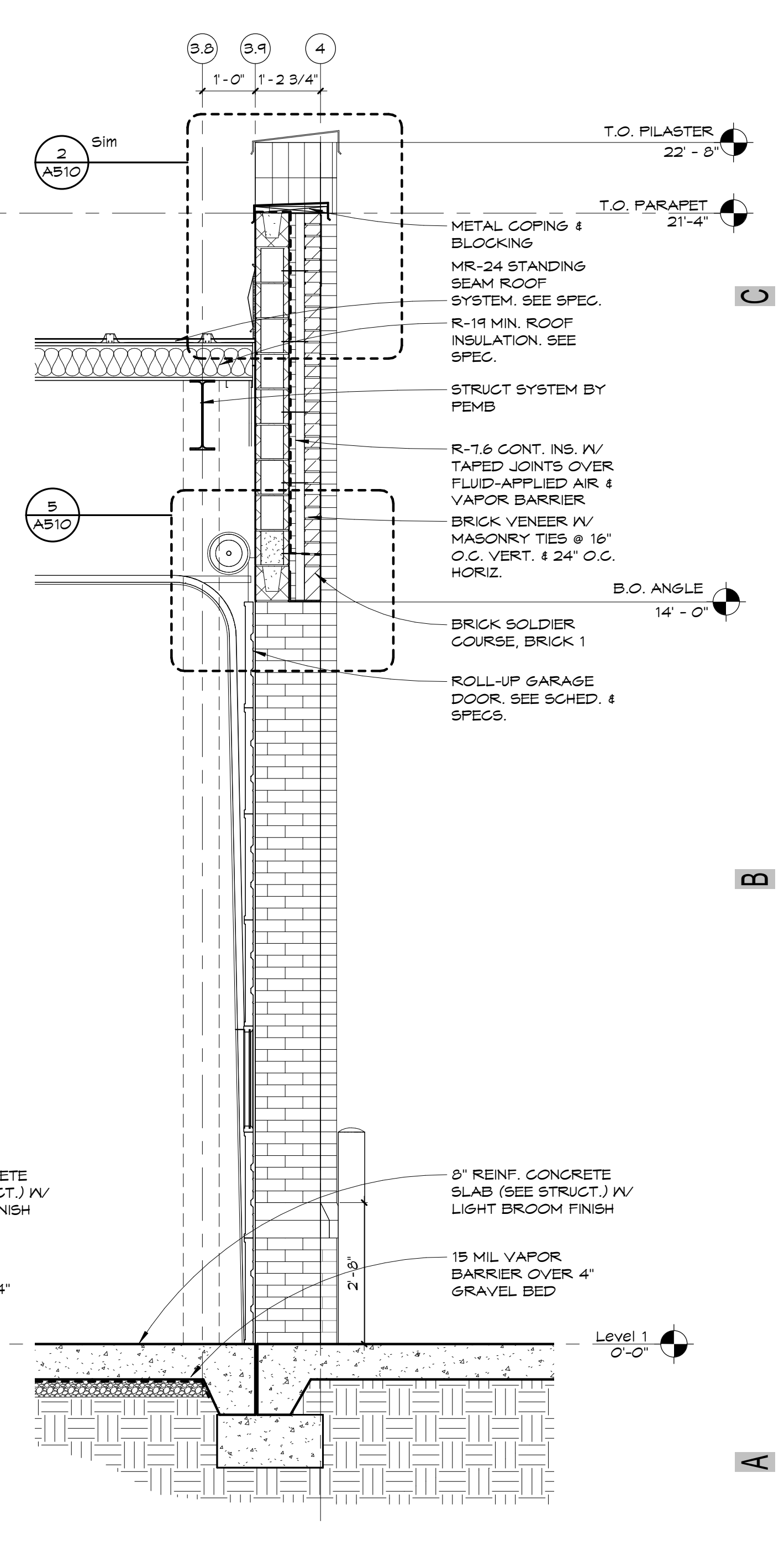
4 WALL SECTION  
1/2" = 1'-0"



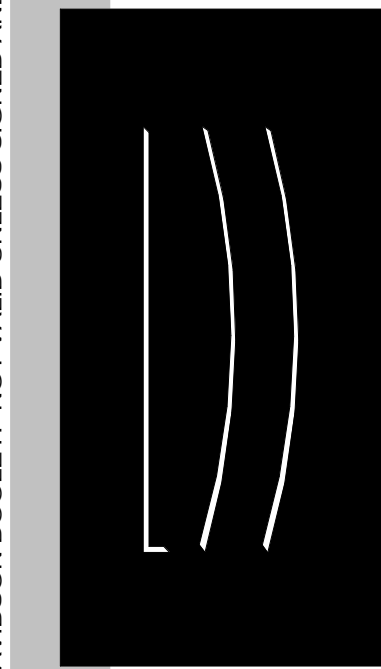
3 WALL SECTION  
1/2" = 1'-0"



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

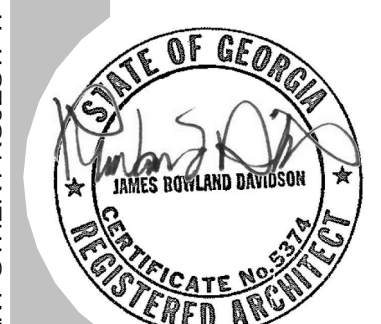


1 WALL SECTION  
1/2" = 1'-0"



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REVISIONS



NEW CONSTRUCTION  
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TITLE WALL SECTIONS

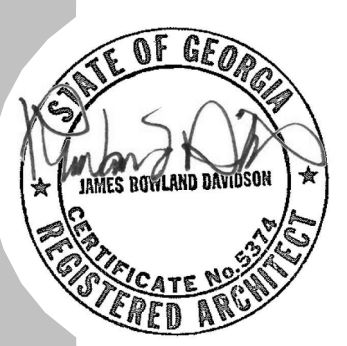
STATUS Issue for Permit  
JOB 121038.00  
QC Checker  
DRAWN Author  
SHEET **A302**  
DATE 06/22/22

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NEW CONSTRUCTION  
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TITLE ENLARGED PLANS

STATUS Issue for Permit

JOB 121038.00

QC Checker

DRAWN Author

SHEET **A401**

DATE 06/22/22

**17 INTERIOR ELEVATION**  
1/4" = 1'-0"

**16 INTERIOR ELEVATION**  
1/4" = 1'-0"

**15 INTERIOR ELEVATION**  
1/4" = 1'-0" KITCHEN

**14 INTERIOR ELEVATION**  
1/4" = 1'-0" KITCHEN

**21 INTERIOR ELEVATION**  
1/4" = 1'-0" BUNK RM.

**13 INTERIOR ELEVATION**  
1/4" = 1'-0" RESTROOM

**12 INTERIOR ELEVATION**  
1/4" = 1'-0" RESTROOM

**11 INTERIOR ELEVATION**  
1/4" = 1'-0" RESTROOM

**10 INTERIOR ELEVATION**  
1/4" = 1'-0" RESTROOM

**9 INTERIOR ELEVATION**  
1/4" = 1'-0" TOILET

**8 INTERIOR ELEVATION**  
1/4" = 1'-0" TOILET

**7 INTERIOR ELEVATION**  
1/4" = 1'-0" TOILET

**6 INTERIOR ELEVATION**  
1/4" = 1'-0" TOILET

**5 INTERIOR ELEVATION**  
1/4" = 1'-0" JANITOR

**4 ENLARGED RESTROOMS PLAN**  
1/4" = 1'-0"

**3 ENLARGED RESTROOM PLAN**  
1/4" = 1'-0"

**2 ENLARGED PLAN**  
1/4" = 1'-0"

**1 ENLARGED KITCHEN PLAN**  
1/4" = 1'-0"

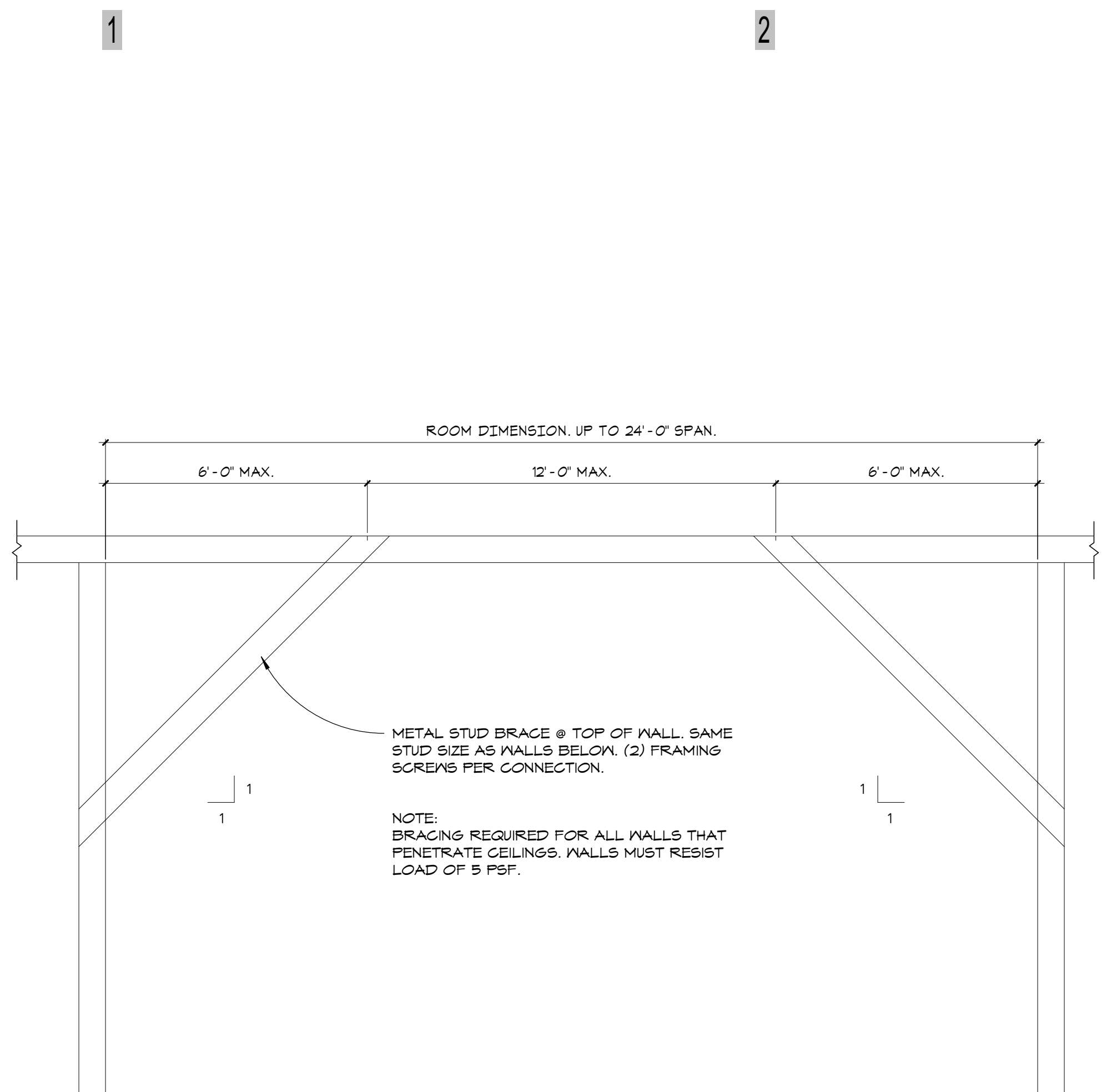
6" TALL CONCRETE CURB W/ RUBBER BASE, OFFSET 4" FROM FRONT & SIDES OF EXTRACTOR. BASIN DRAIN TO BE LOCATED AT REAR OF UNIT.

**TOILET ACCESSORIES**

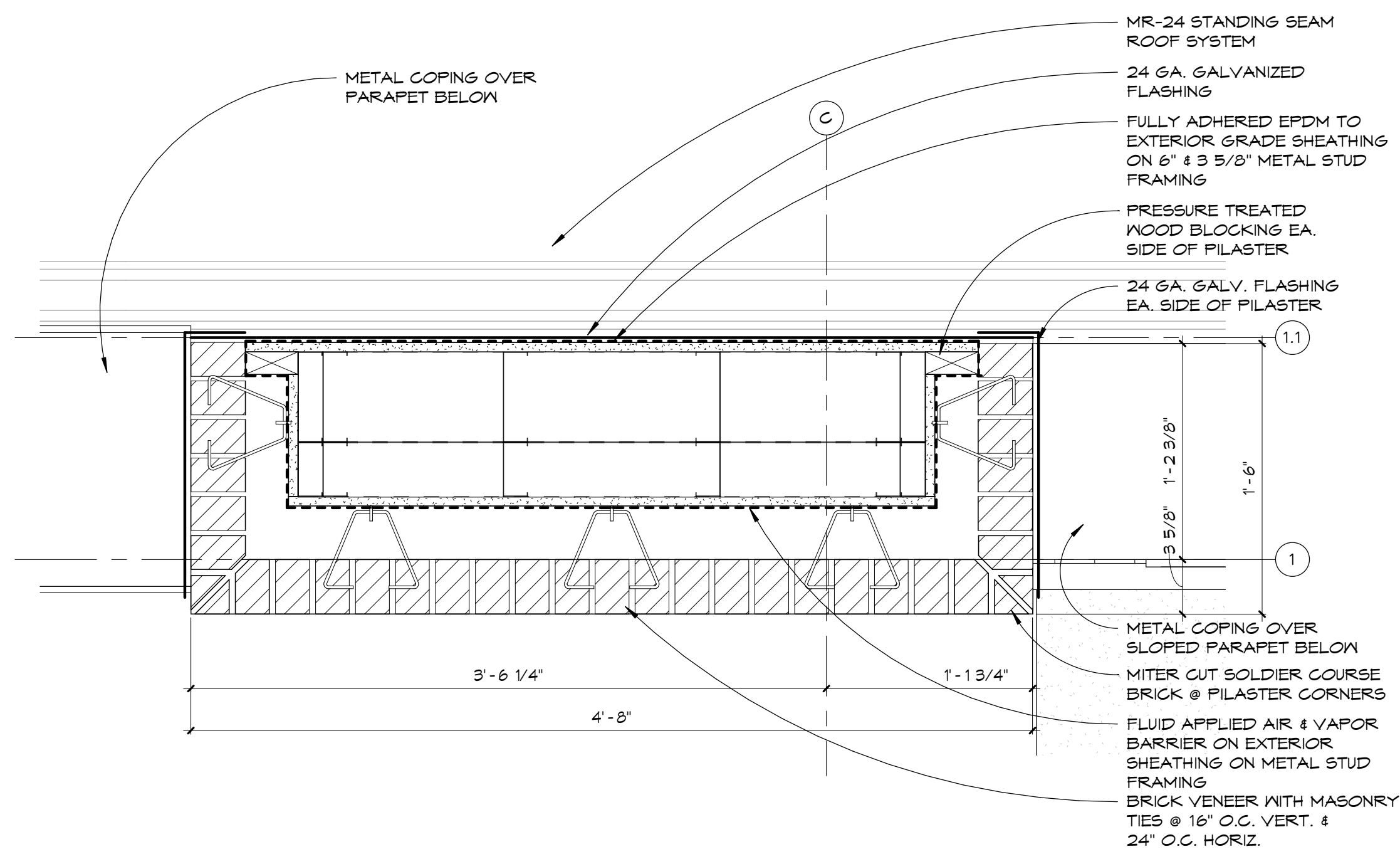
MARK	DESCRIPTION	MANUF./MODEL
A	<varies> GRAB BAR - SEE ELEV. FOR SIZES	FOR MANUF., SEE SPECS.
B	TOILET PAPER DISPENSER - DUAL ROLL	FOR MANUF., SEE SPECS.
C	SOAP DISPENSER	FOR MANUF., SEE SPECS.
D	HAND DRYER	FOR MANUF., SEE SPECS.
E	BABY CHANGING STATION	FOR MANUF., SEE SPECS.
F	SANITARY NAPKIN DISPENSER	FOR MANUF., SEE SPECS.
G	TOWEL BAR	FOR MANUF., SEE SPECS.
H	SHOWER CURTAIN AND ROD	FOR MANUF., SEE SPECS.
J	Paper Towel/ Waste - Recessed	FOR MANUF., SEE SPECS.
K	GOAT HOOK	FOR MANUF., SEE SPECS.
L	Soap Dispenser - Sink Mount	FOR MANUF., SEE SPECS.
M	MIRROR W/ FRAME - 24 x 36	FOR MANUF., SEE SPECS.
N	SANITARY NAPKIN DISPOSAL	FOR MANUF., SEE SPECS.

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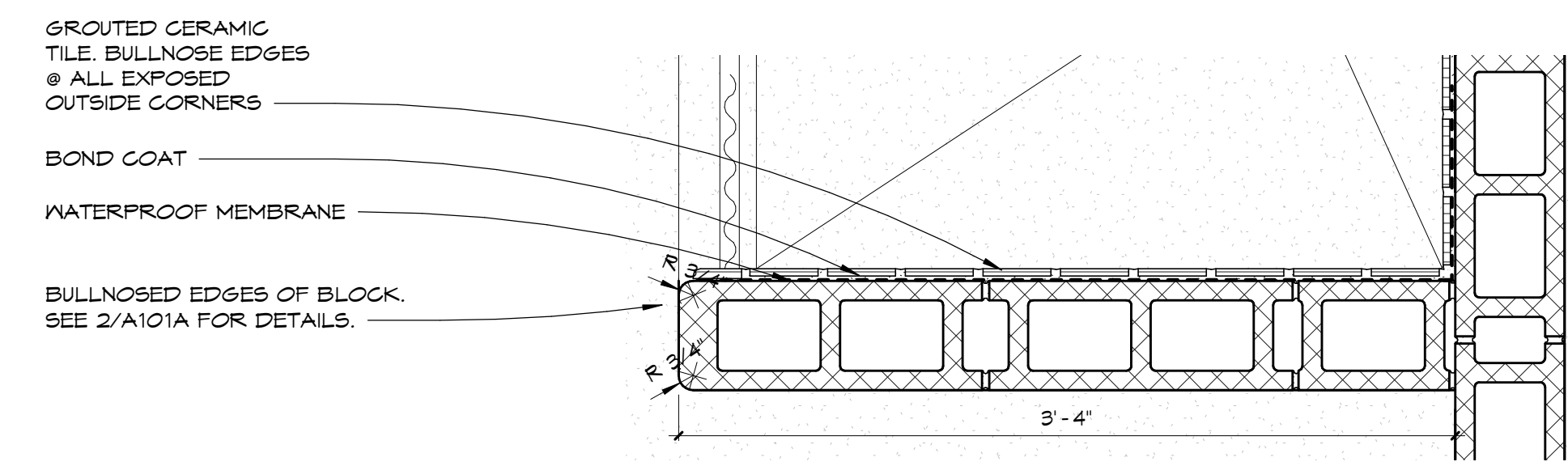




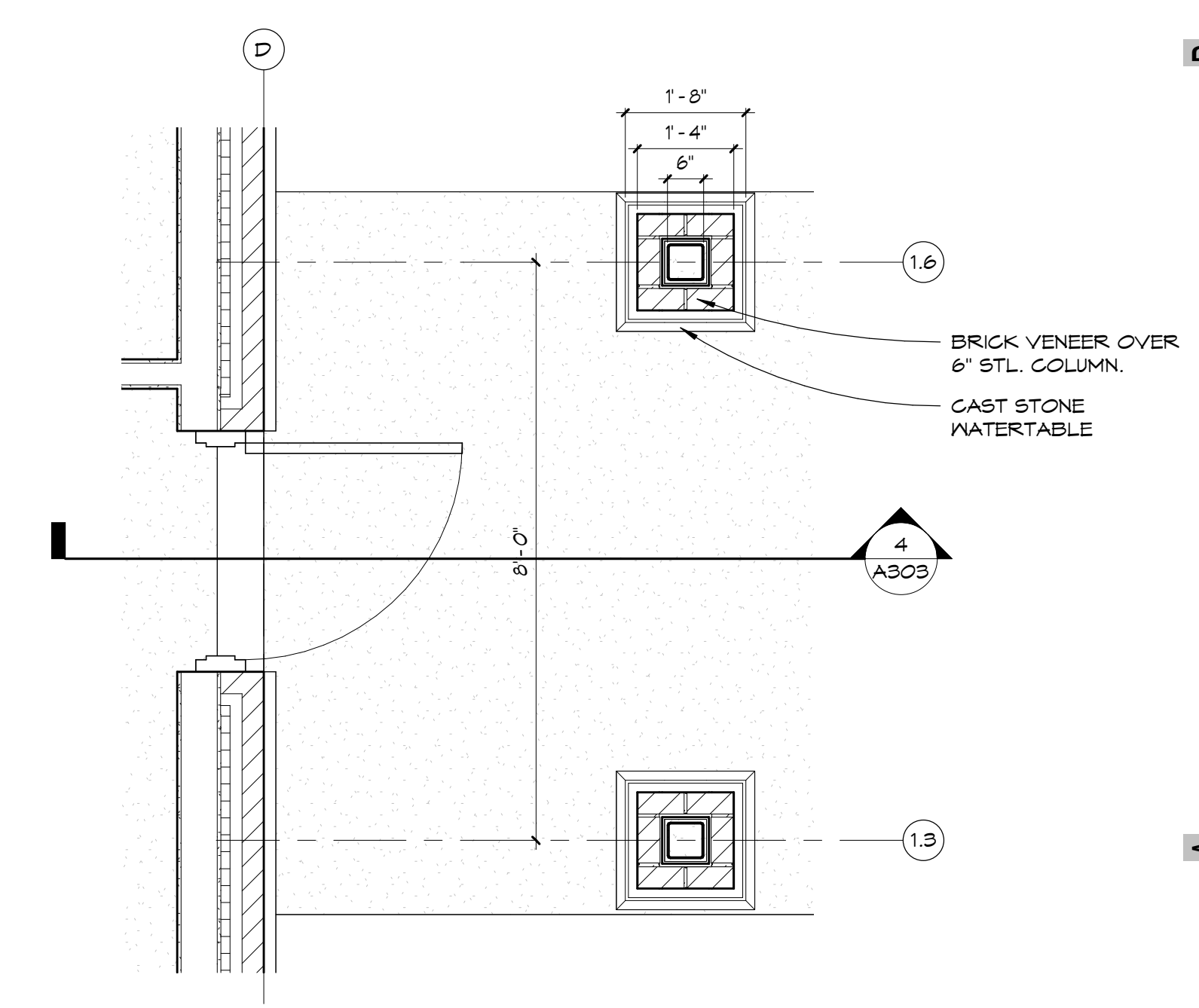
**5 WALL BRACING DETAIL**  
NOT TO SCALE



**4 CENTER PILASTER DETAIL**  
1 1/2" = 1'-0"



**2 TYPICAL SHOWER WALL DETAIL**  
1 1/2" = 1'-0"



**1 ENLARGED CANOPY PLAN**  
1/2" = 1'-0"

C:\Projects\Rockdale Station #10\_Central\_RZ2\_baker\XYQR.rvt 6/27/2022 5:31:13 PM

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ARCHITECTURE  
PLANNING  
INTERIOR DESIGN

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Marietta, GA 30067  
770.850.8494 f  
770.956.9030 f  
liddi-architects.com

REVISIONS

STATE OF GEORGIA  
REGISTERED ARCHITECT  
SHEILA DORLAND DAVIDSON

NEW CONSTRUCTION  
ROCKDALE FIRE  
STATION 10  
ROCKDALE, GEORGIA

ROCKDALE  
FIRE  
STATION 10  
3130 GA Hwy. 138  
Conyers, GA 30013

ROCKDALE  
CO. FIRE  
DEPT.  
Fire Station No. 7  
1496 Rockbridge Road  
Conyers, GA 30012

TITLE ENLARGED PLANS

STATUS Issue for Permit

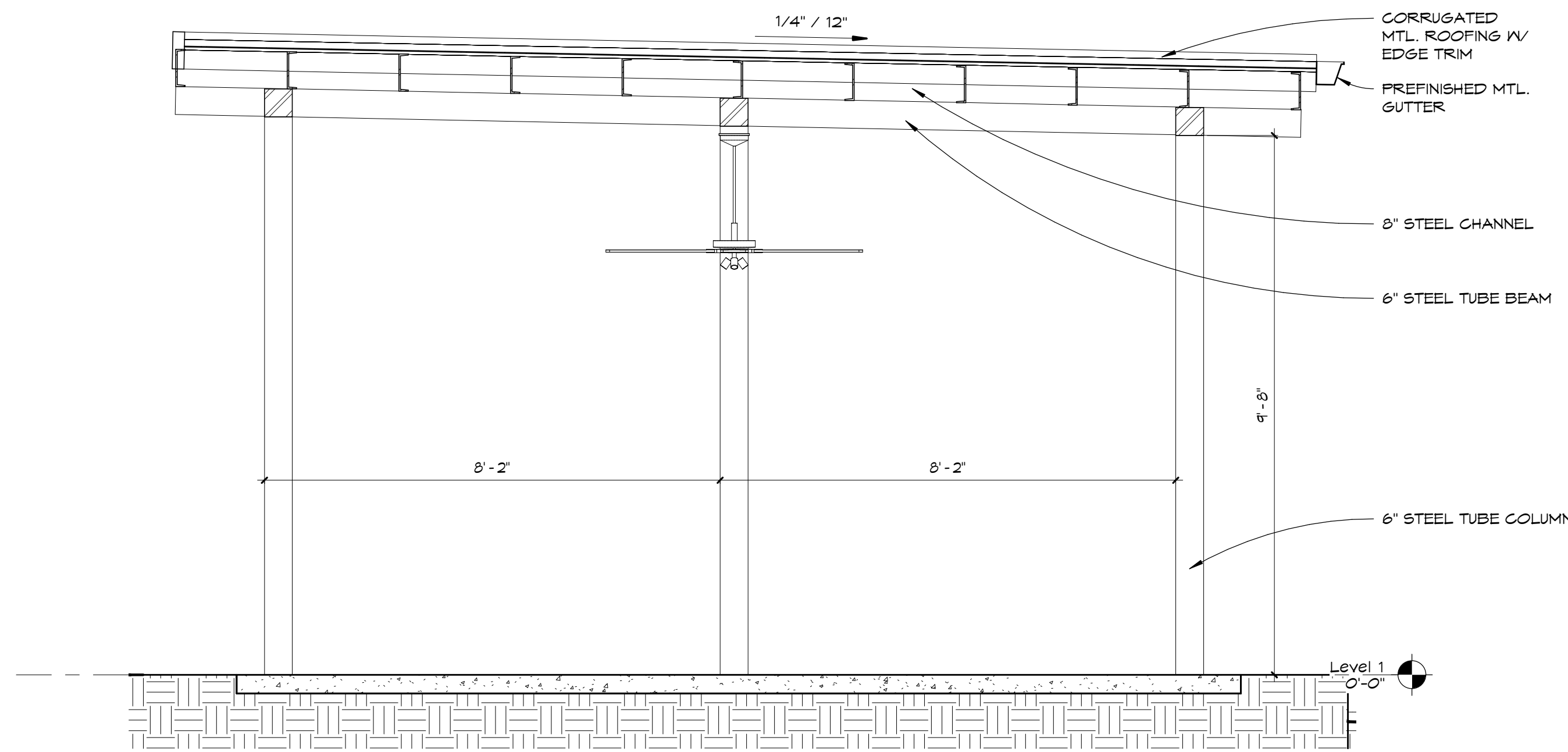
JOB 121038.00

QC Checker

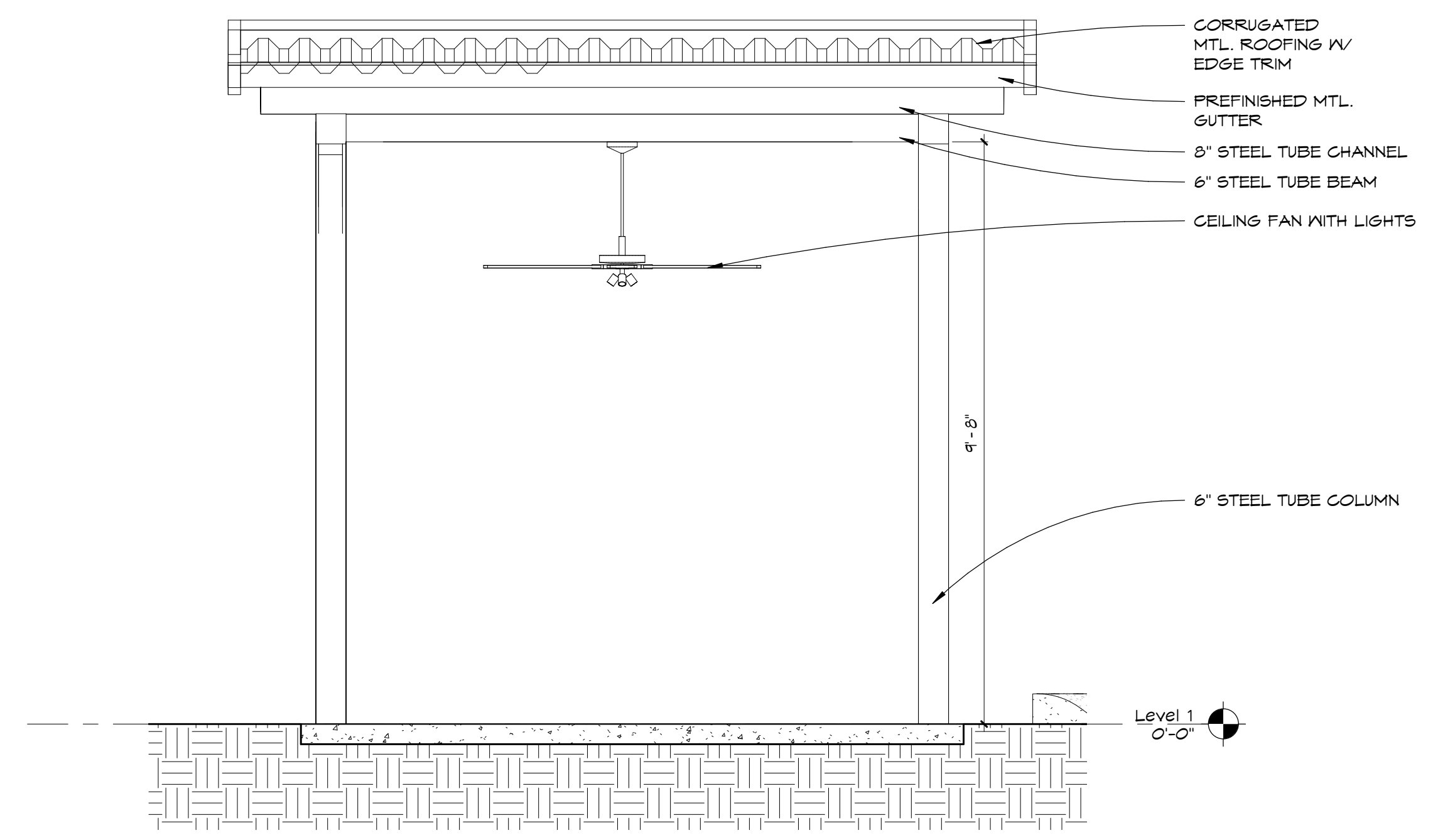
DRAWN Author

SHEET **A402**

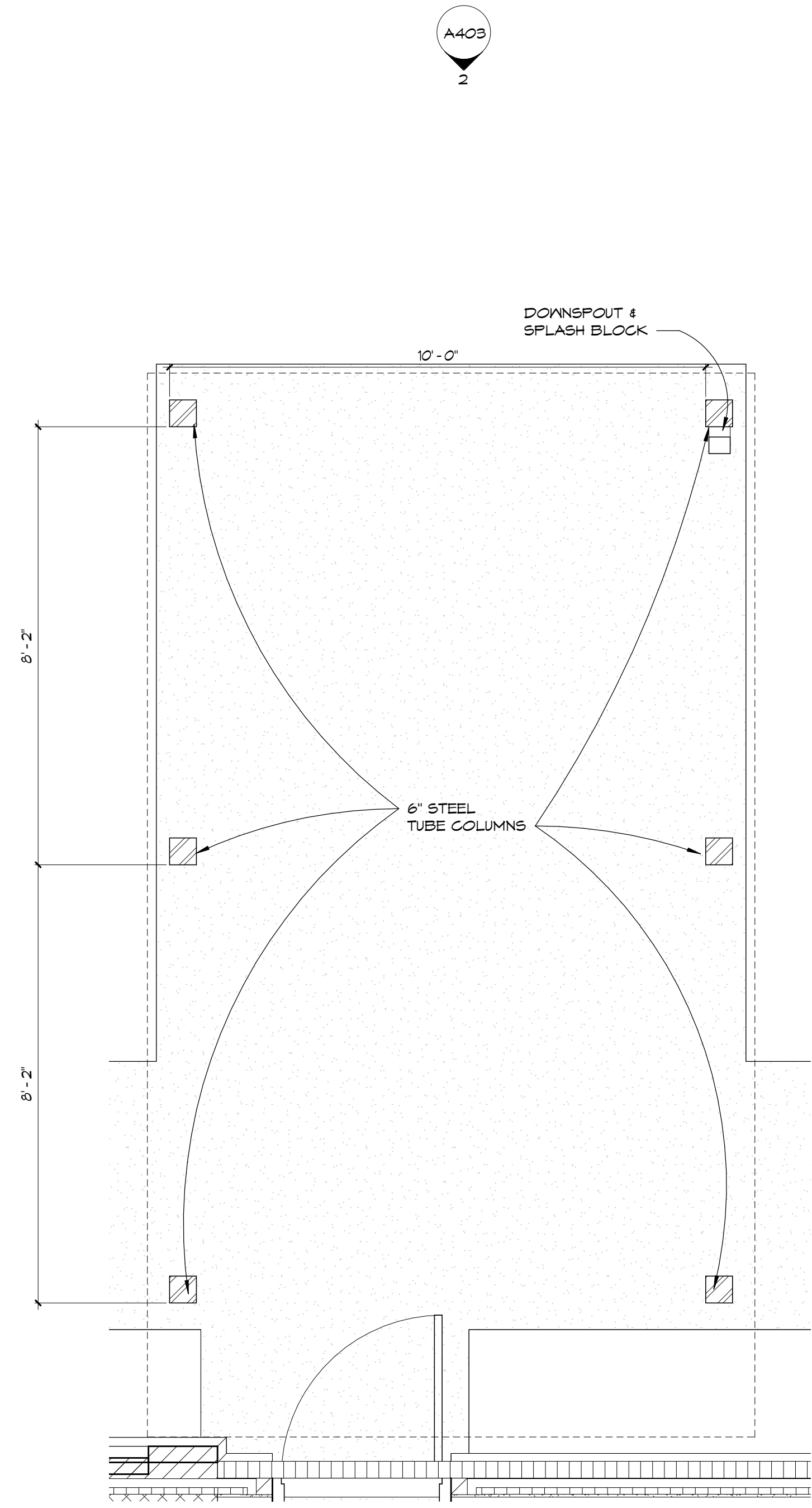
DATE 06/22/22



3 CANOPY SIDE ELEVATION  
1/2" = 1'-0"

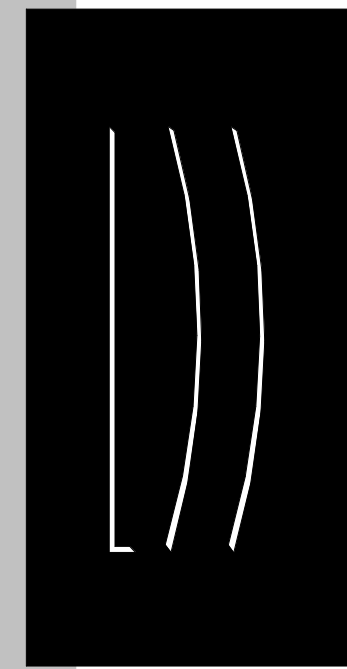


2 CANOPY FRONT ELEVATION  
1/2" = 1'-0"



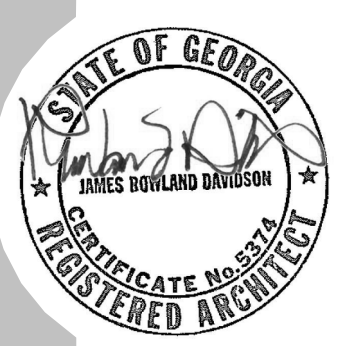
1 CANOPY PLAN  
1/2" = 1'-0"

C:\Projects\Rockdale Station #10\_Central\_RZ2\_baker\XYQR.rvt  
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Lyman  
Davidson  
Dooley, Inc.  
1648 Powers Ferry Road  
Building One  
Marietta, GA 30067  
770.850.8494 f  
770.956.9030 f  
laddi-architects.com

REVISIONS



NEW CONSTRUCTION  
**ROCKDALE FIRE  
STATION 10**  
ROCKDALE, GEORGIA

ROCKDALE  
FIRE  
STATION 10  
3130 GA Hwy. 138  
Conyers, GA 30013

ROCKDALE  
CO. FIRE  
DEPT.  
Fire Station No. 7  
1496 Rockbridge Road  
Conyers, GA 30012

TITLE CANOPY DETAILS

STATUS	Issue for Permit
JOB	121038.00
QC	Checker
DRAWN	Author
SHEET	<b>A403</b>
DATE	06/22/22

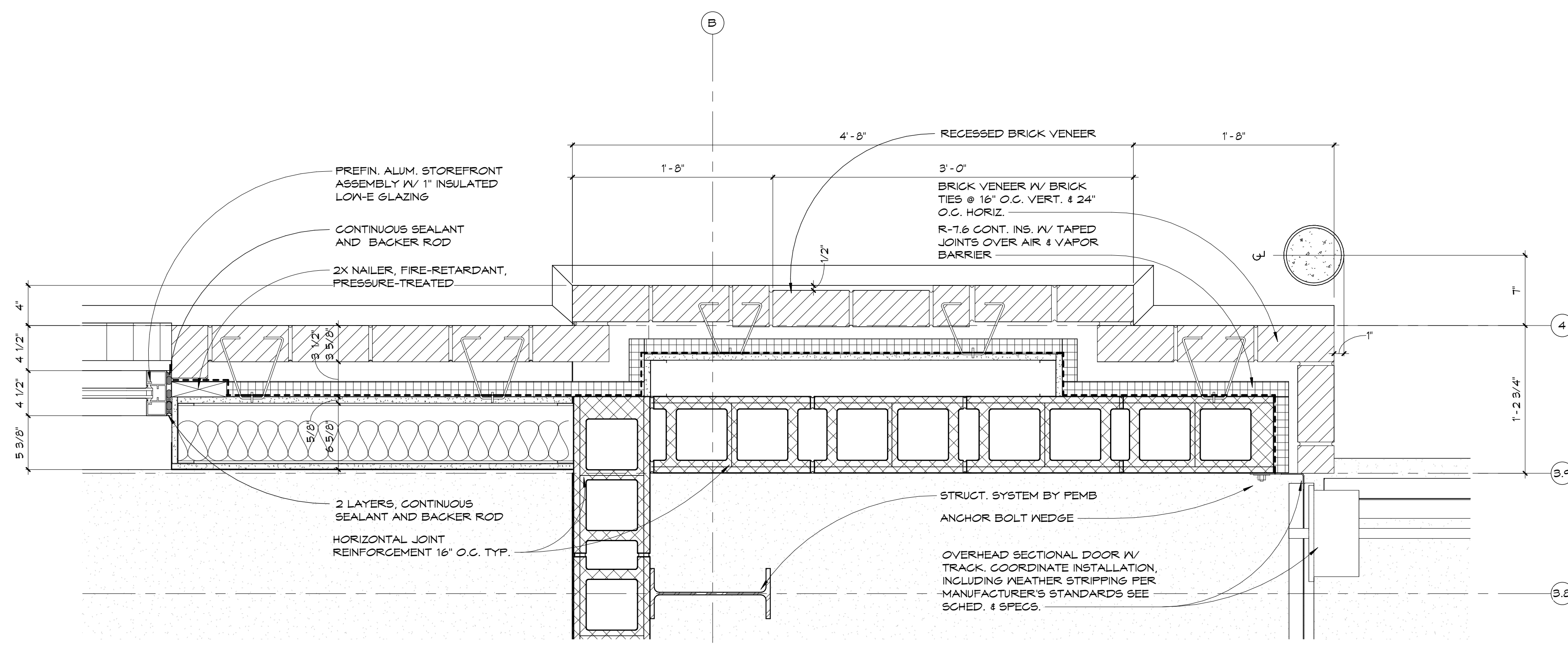


D

C

B

A



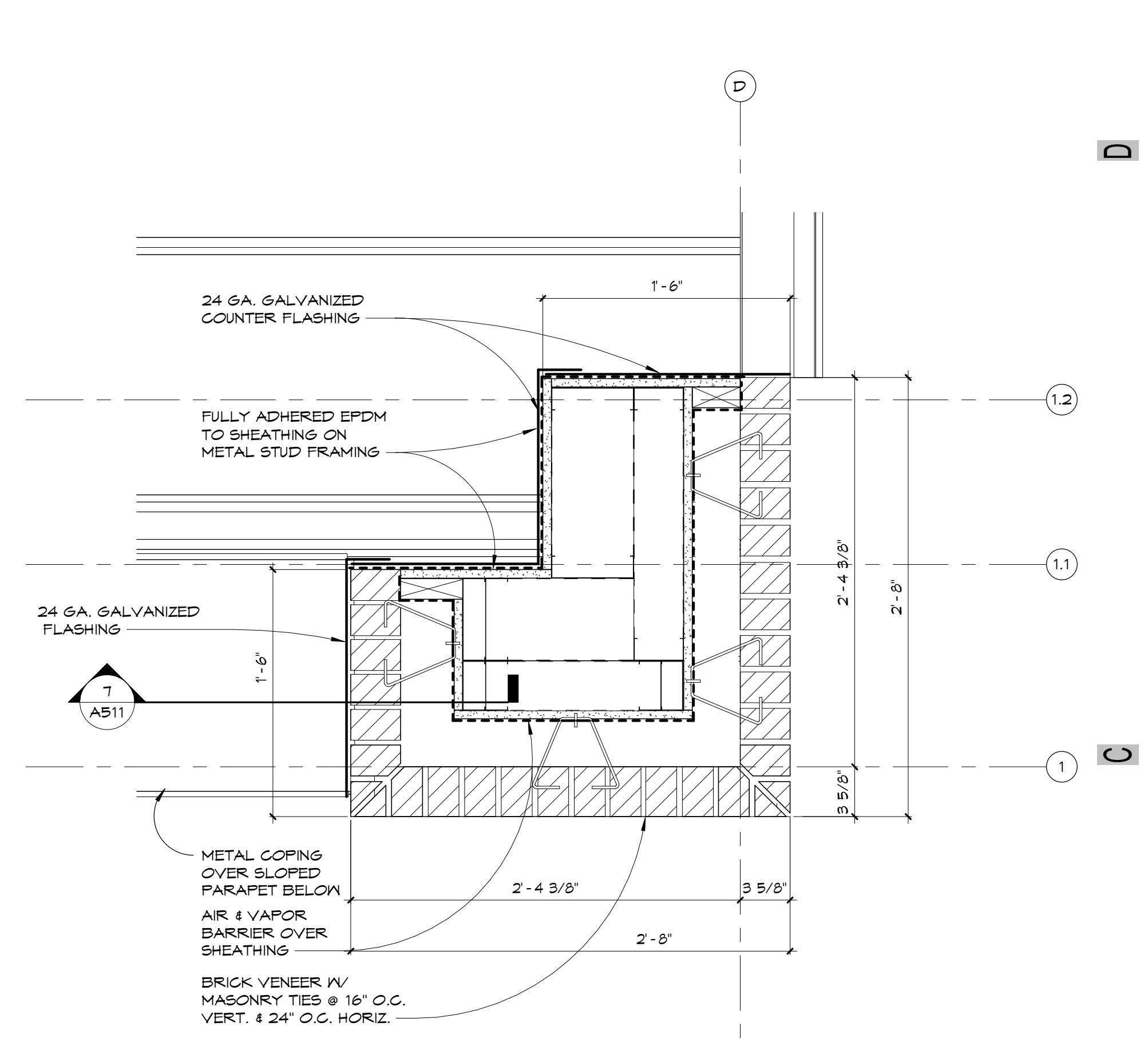
3 PLAN DETAIL  
1 1/2" = 1'-0"

D

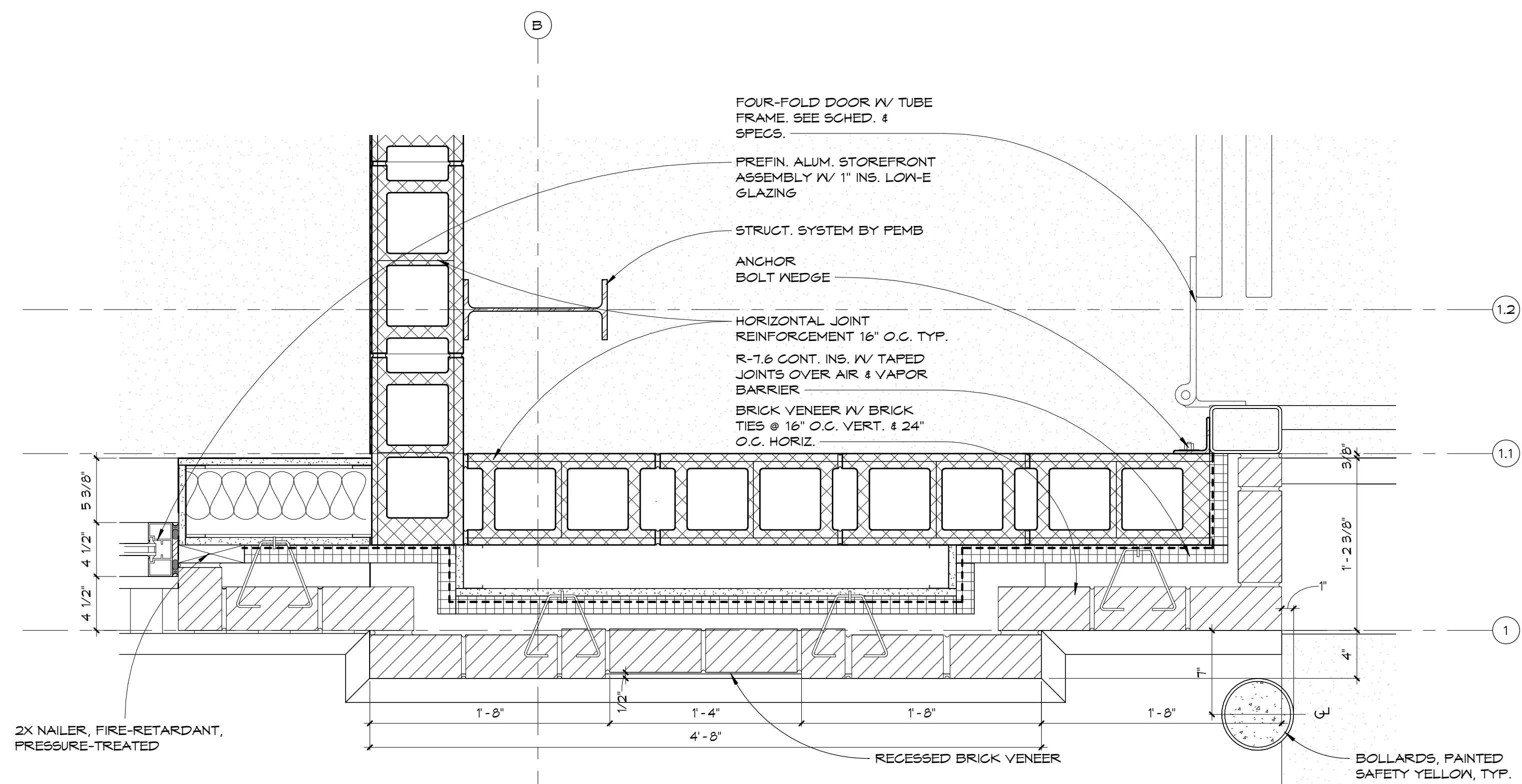
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B

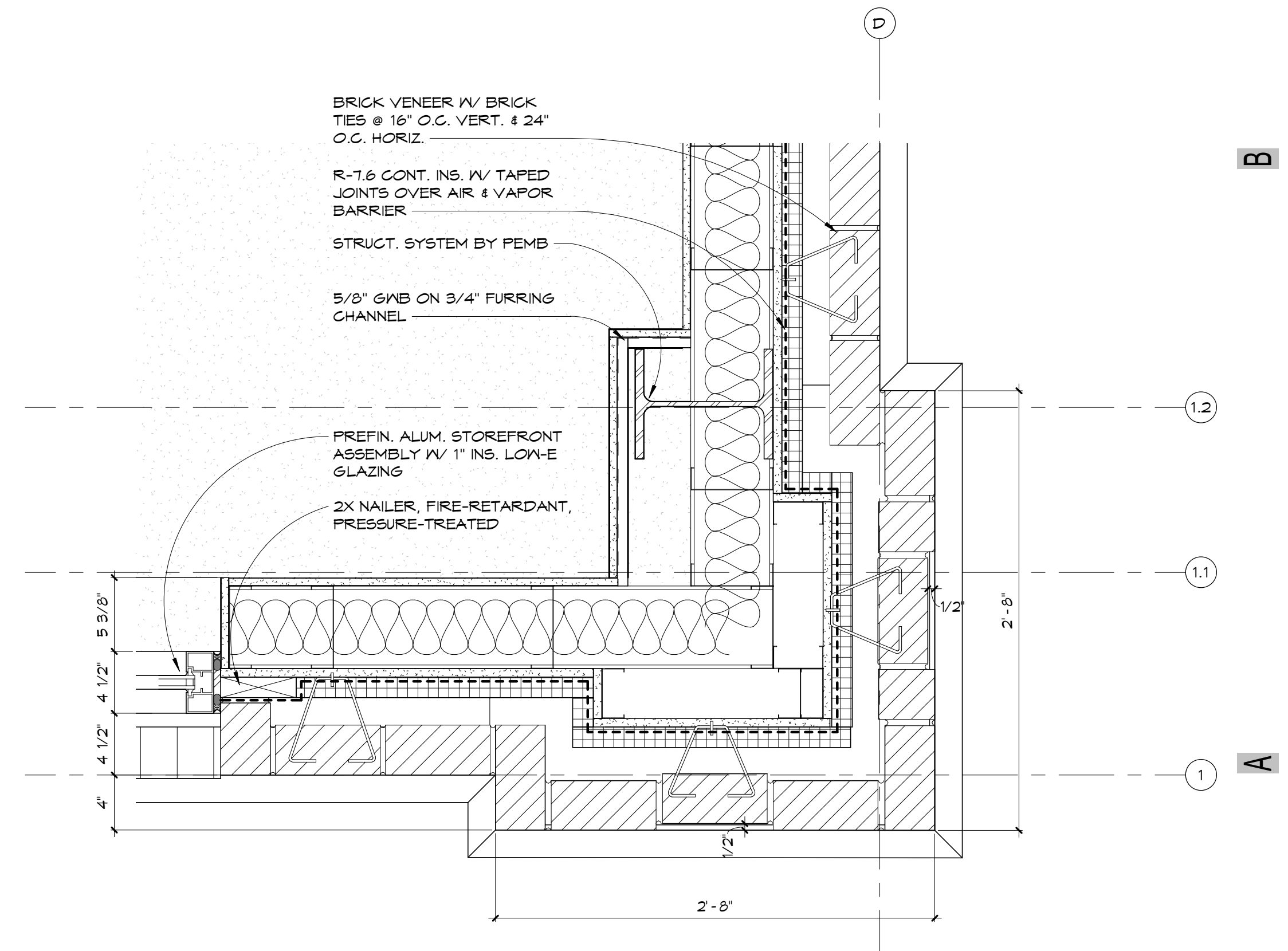
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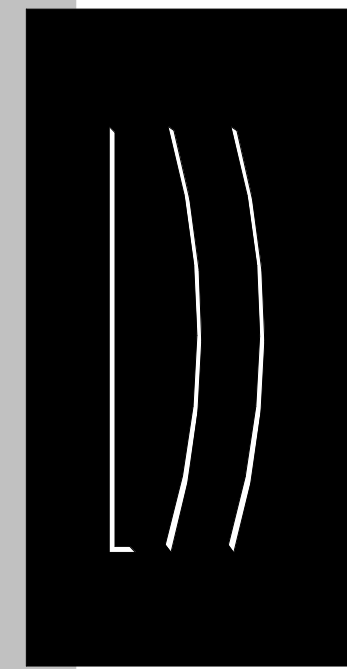
4 PILASTER PLAN DETAIL - HIGH  
1 1/2" = 1'-0"



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



1 PILASTER PLAN DETAIL - LOW  
1 1/2" = 1'-0"



REVISIONS

NO.	DESCRIPTION



NEW CONSTRUCTION  
ROCKDALE FIRE  
STATION 10  
ROCKDALE, GEORGIA

ROCKDALE  
FIRE  
STATION 10  
3130 GA Hwy. 138  
Conyers, GA 30013

ROCKDALE  
CO. FIRE  
DEPT.  
Fire Station No. 7  
1496 Rockbridge Road  
Conyers, GA 30012

TITLE PLAN DETAILS

STATUS Issue for Permit  
JOB 121038.00  
QC Checker

DRAWN Author

SHEET **A501**

DATE 06/22/22

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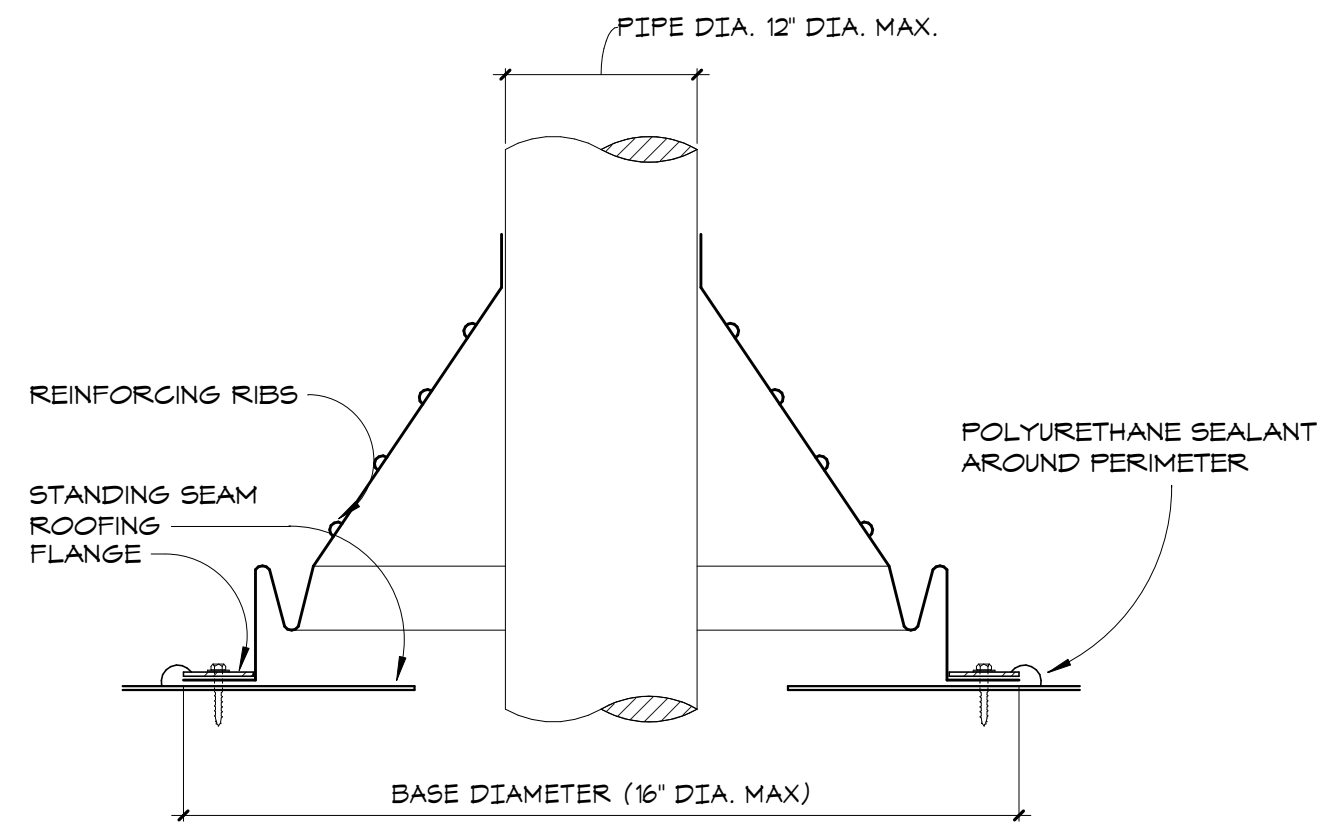


PENETRATIONS UP TO 12" DIAMETER. FOR SIZES LARGER THAN 12", USE ROOF CURB. DO NOT USE AT HEATED PIPES OR VENTS. USE BELOW 250 DEGREES F. USE SILICONE DEKRITE AT TEMPERATURES UP TO 340 DEGREES F.

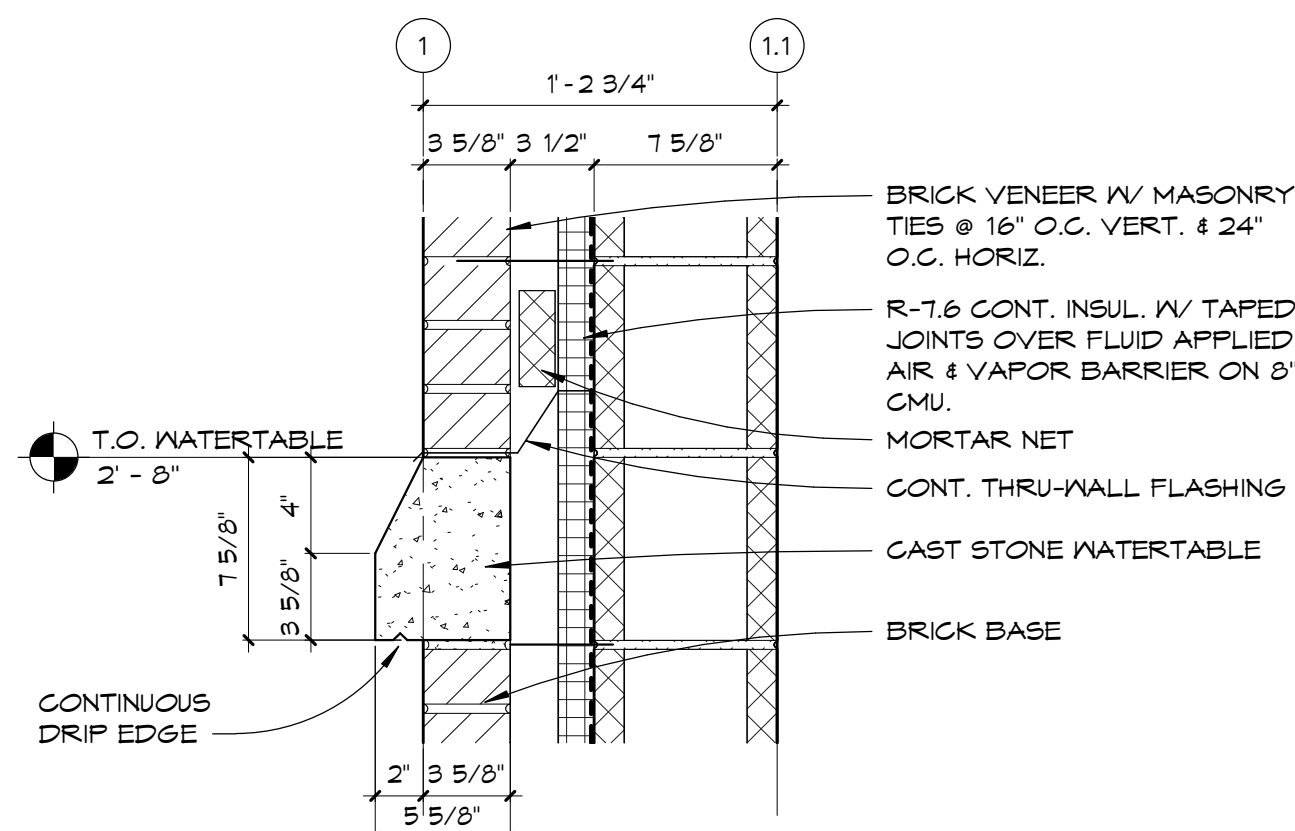
PRODUCT NAME: DEKRITE PIPE FLASHING DISTRIBUTED BY BUILDEX N.A. MATERIAL: EPDM WITH ALUMINUM BONDED BASE RING. PENETRATION THROUGH THE FLAT AREA OF THE ROOF PANEL IS RECOMMENDED. DO NOT LOCATE ROOF PENETRATION SUCH THAT PANEL RIBS WILL BE PENETRATED.

INSTALLATION PROCEDURES:

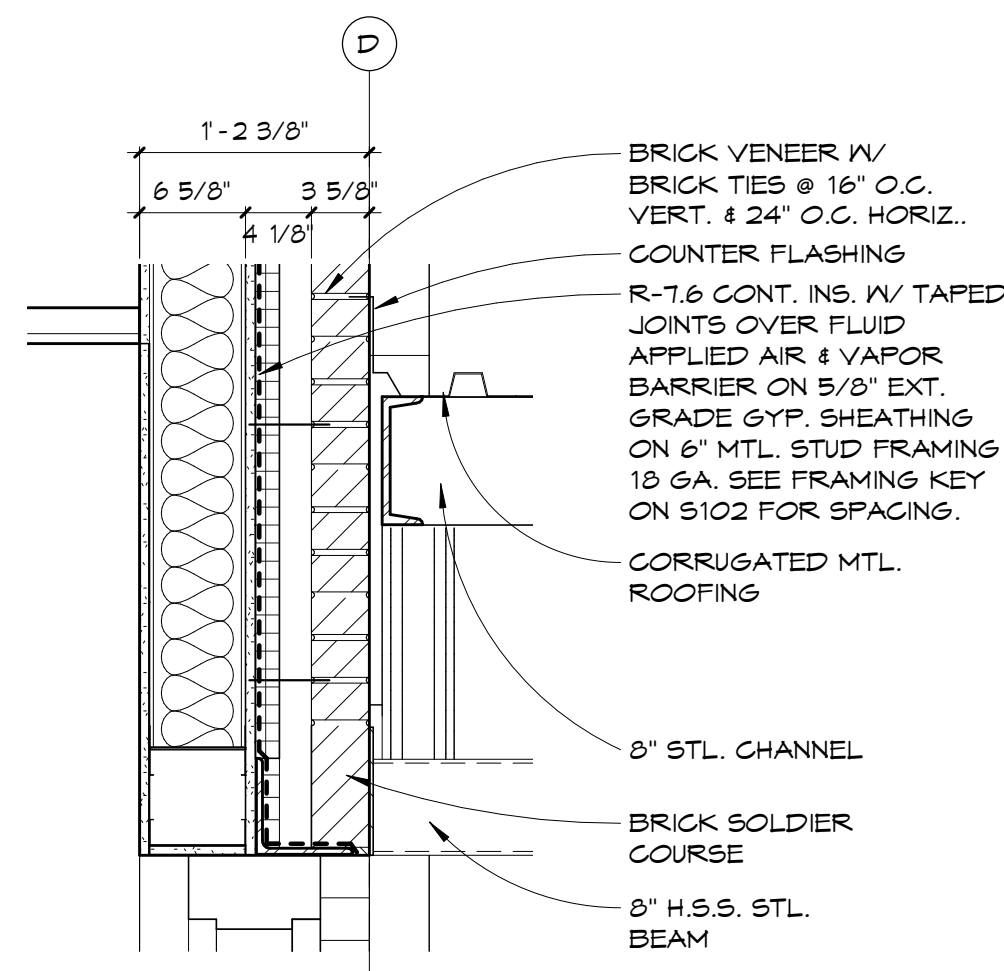
1. PAINT ALL METAL (CAST IRON, COPPER, GALVANIZED, ETC.) PIPE WITH CORROSION-RESISTANT PAINT. ALLOW TO DRY PRIOR TO PLACING PIPE FLASHING.
2. DEKRITE PIPE FLASHING TO BE INSTALLED IN FLAT OF ROOF PANEL ONLY. OFFSET PIPE TO ACCOMMODATE FLAT OF PANEL.
3. CUT HOLE IN PANEL 2" LARGER THAN PIPE DIAMETER TO ALLOW 1" MOVEMENT UPSLOPE AND 1" MOVEMENT DOWNSLOPE.
4. CLEAN SURFACE WITH MINERAL SPIRITS OR NAPHTHA SOLVENT IF OILY.
5. CUT PLIABLE DEKRITE SLEEVE. HOLE SHOULD BE 1/2 INCH TO 2 INCHES SMALLER THAN DIAMETER OF PIPE TO BE FLASHED.
6. SLIDE DEKRITE FLASHING DOWN OVER THE PIPE. WATER MAY BE USED TO LUBRICATE. DO NOT PRESS FLASHING TO DECK AT THIS TIME.
7. DO NOT USE BUTYL (TAPE OR GULK) OR SILICONE WITH DEKRITE PIPE FLASHING. APPLY ONE-PART POLYURETHANE SEALANT ON UNDERSIDE OF THE FLASHING.
8. PRESS PIPE FLASHING BASE TO FLAT PART OF ROOF PANEL.
9. FASTEN FLASHING TO PANEL SURFACE WITH CLINCHING FASTENERS.



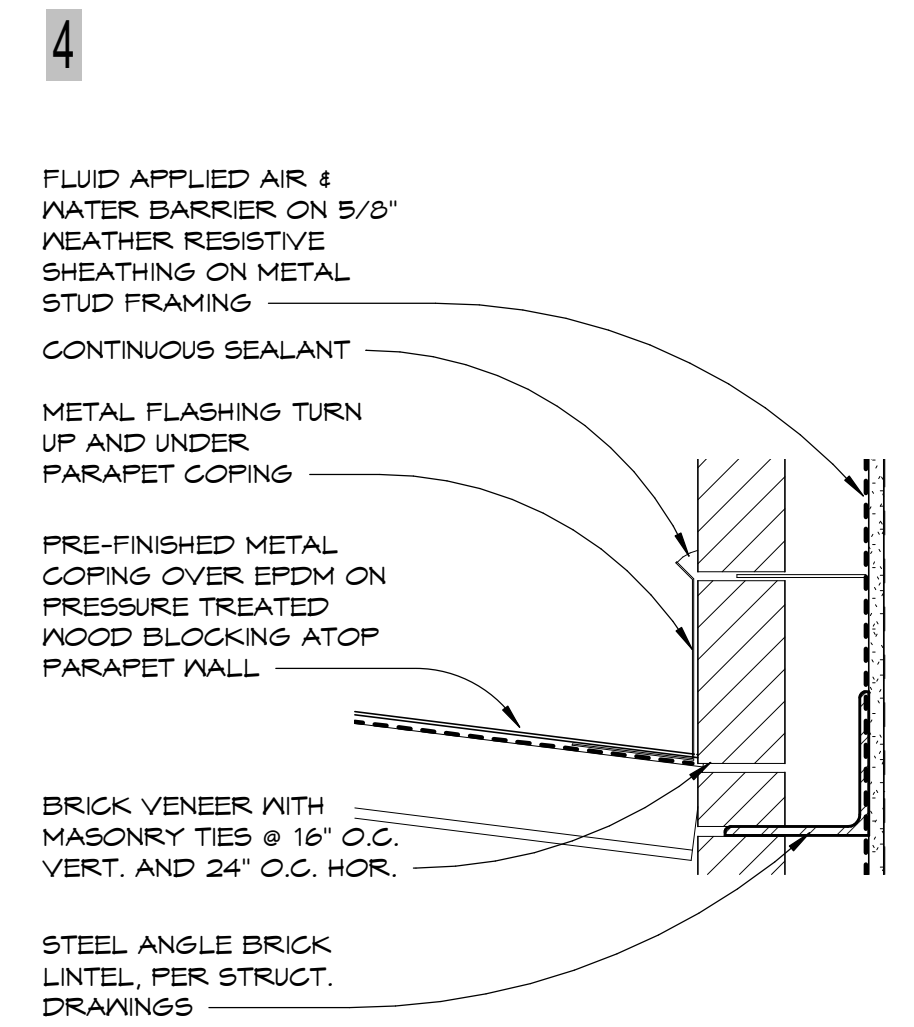
5 PIPE PEN. THRU MTL. ROOF DECK  
NOT TO SCALE



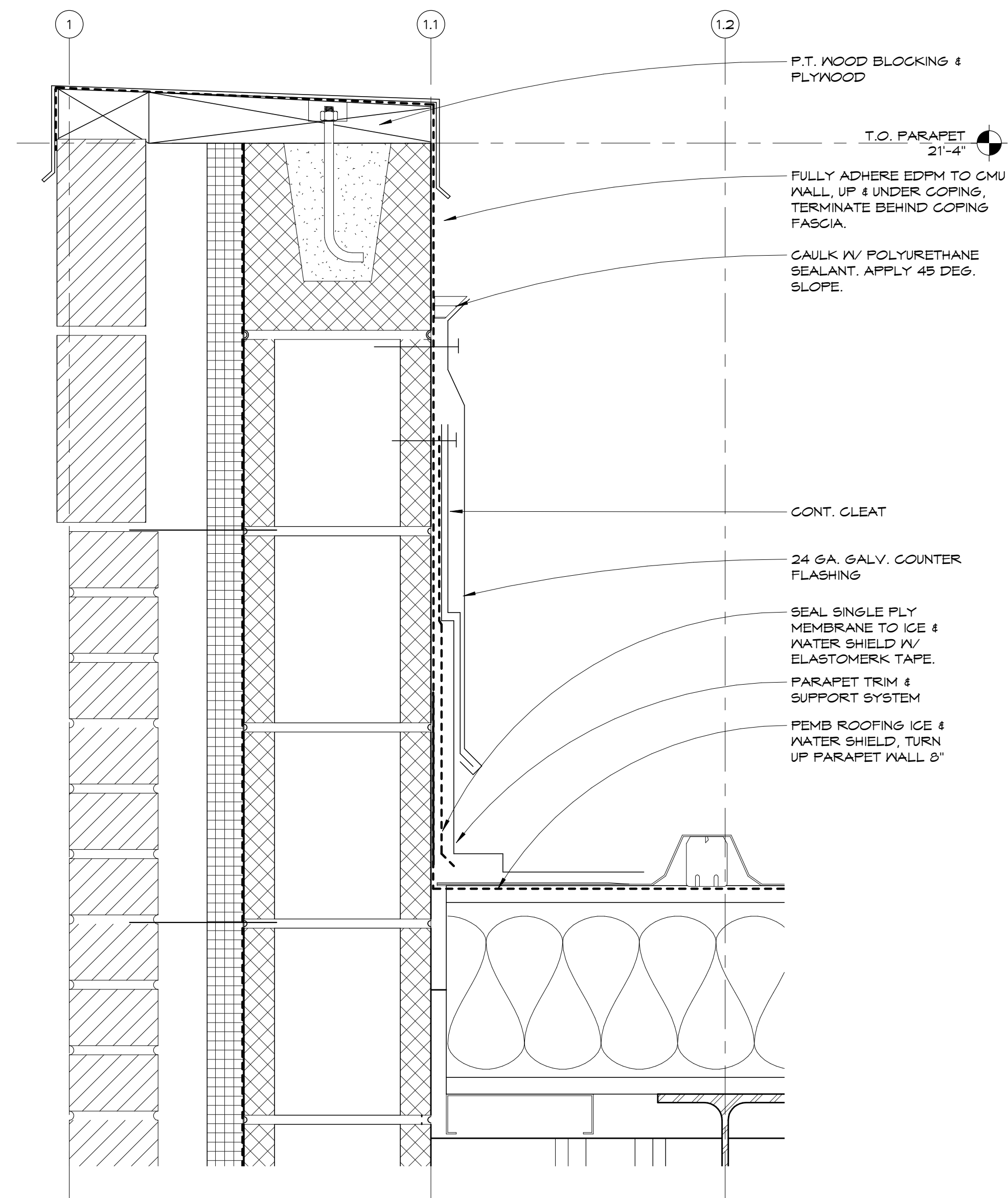
4 WATERTABLE DETAIL  
1 1/2" = 1'-0"



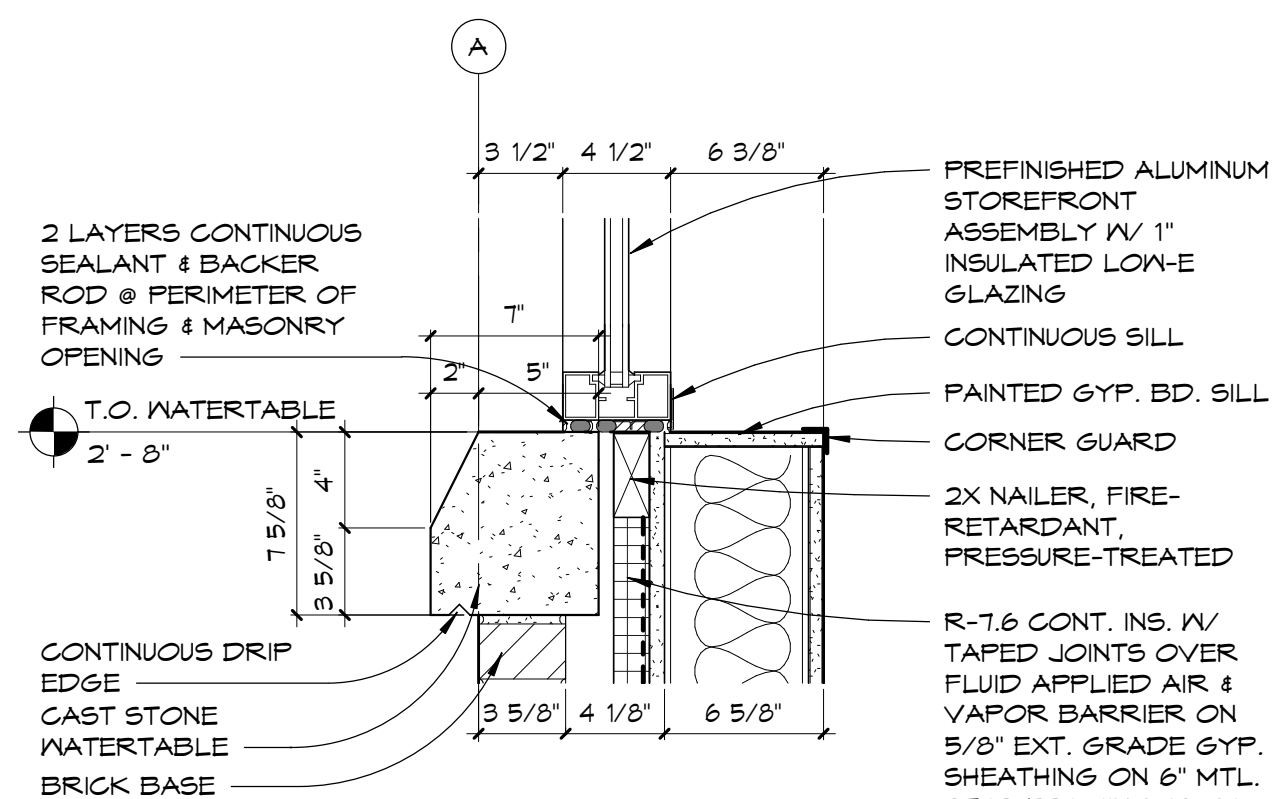
3 ENTRY DETAIL @ CANOPY  
1" = 1'-0"



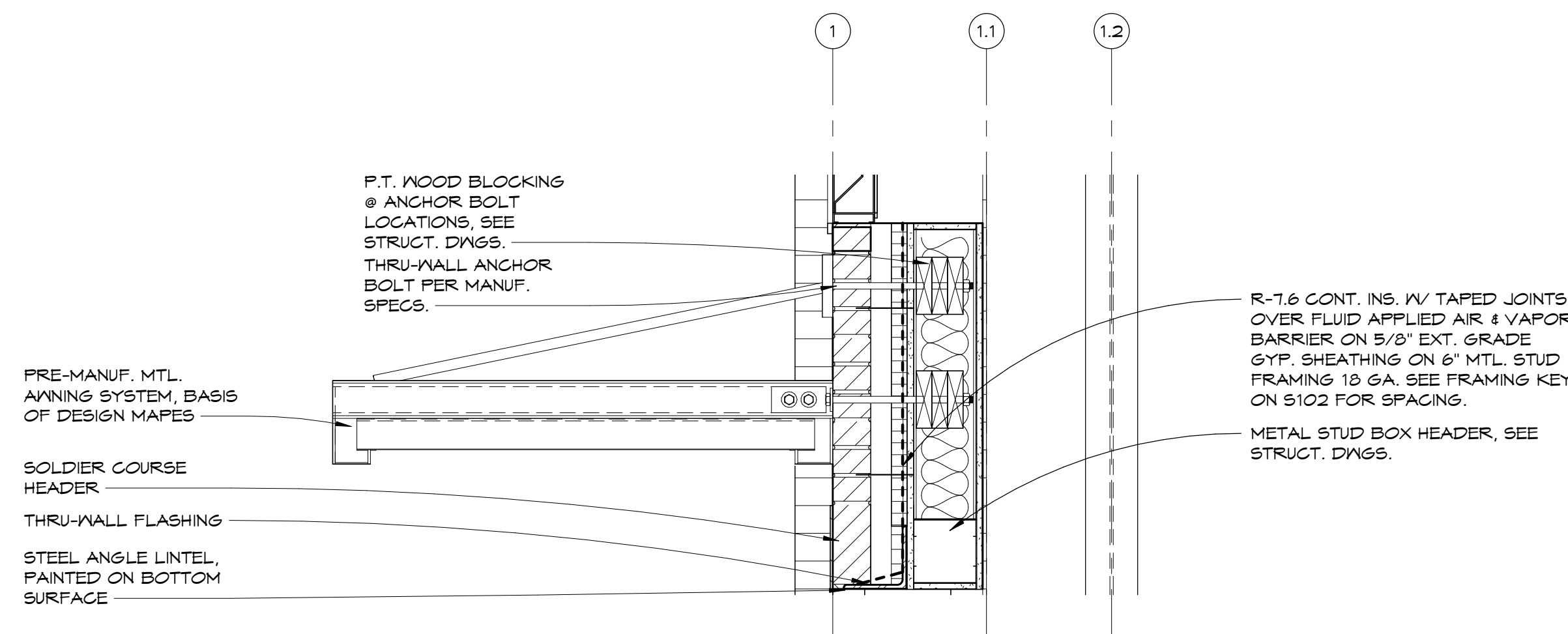
7 PARAPET VALLEY DETAIL  
1 1/2" = 1'-0"



6 PARAPET FLASHING DETAIL  
3" = 1'-0"

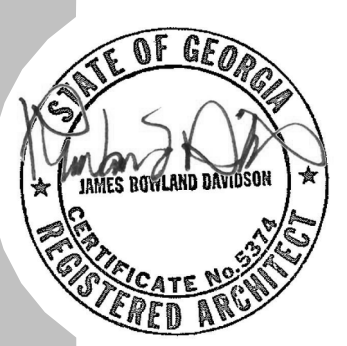


2 WINDOW SILL DETAIL  
1 1/2" = 1'-0"



1 CANOPY DETAIL  
1" = 1'-0"

REVISIONS



NEW CONSTRUCTION  
**ROCKDALE FIRE  
STATION 10**  
ROCKDALE, GEORGIA

**ROCKDALE  
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3130 GA Hwy. 138  
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**ROCKDALE  
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Fire Station No. 7  
1496 Rockbridge Road  
Conyers, GA 30012

TITLE SECTION DETAILS

STATUS Issue for Permit  
JOB 121038.00  
QC Checker

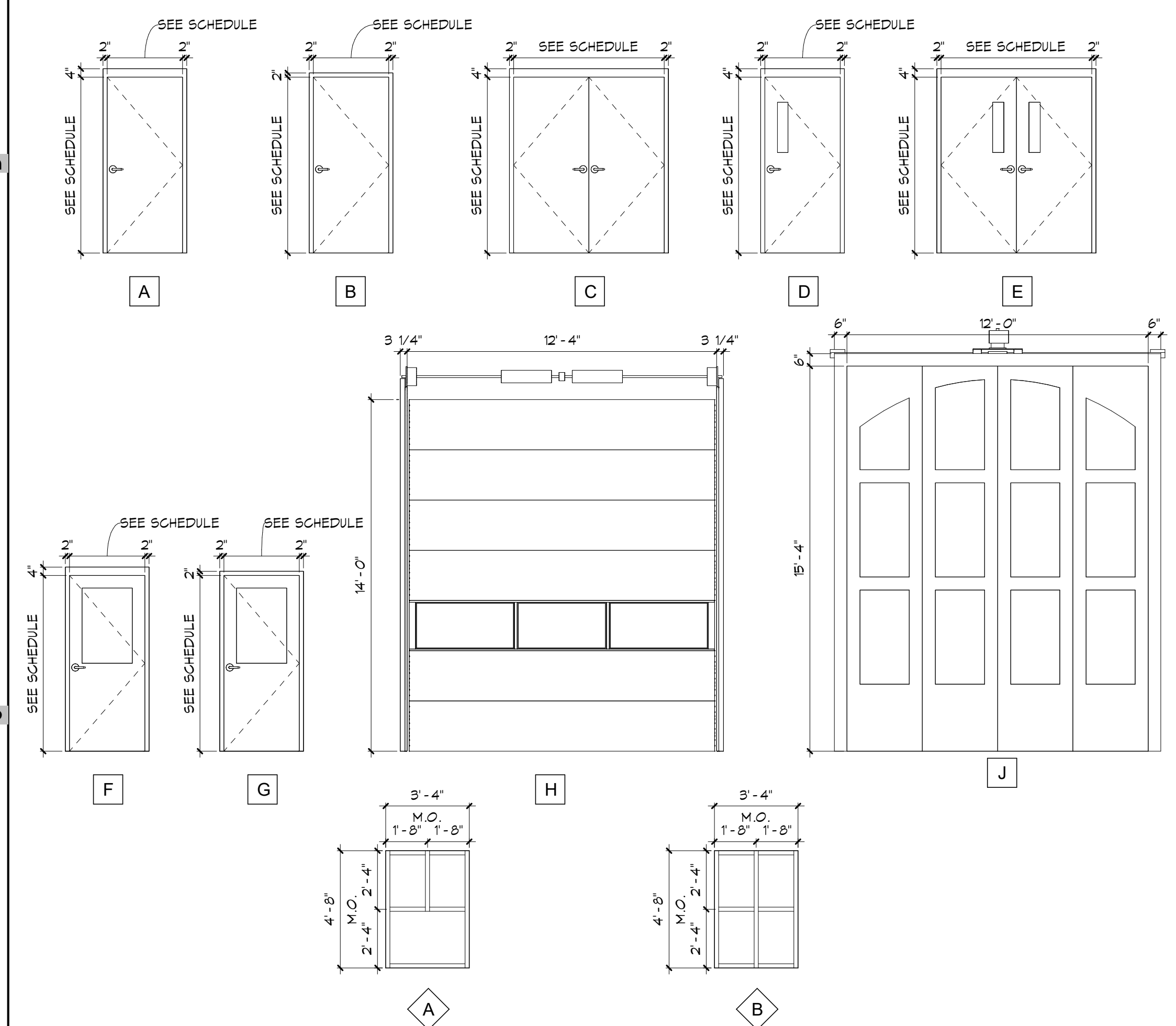
DRAWN Author

SHEET **A511**

DATE 06/22/22

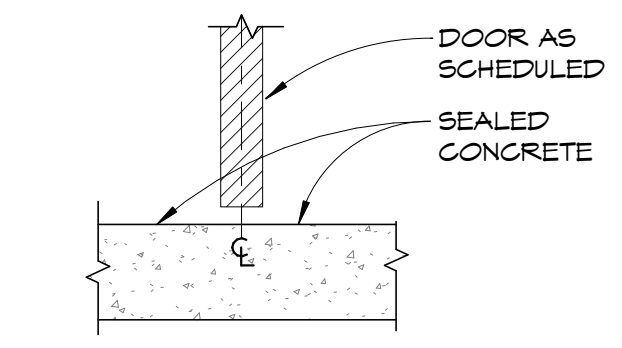
**DOOR & WINDOW TYPES**

**DOOR SCHEDULE**

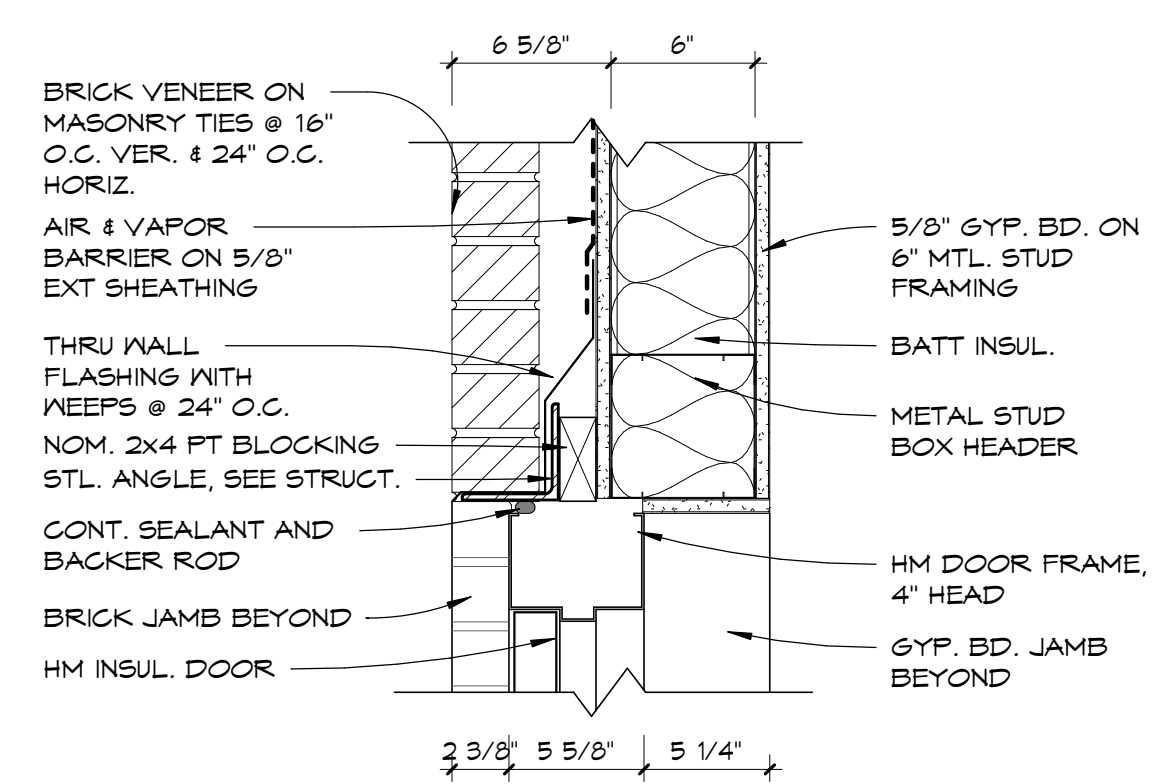


MARK	ROOM	TYPE	WIDTH	HEIGHT	DOOR		FRAME		DETAILS			HARDWARE SET NUM.	FIRE RATING	COMMENTS
					MAT.	FINISH	MAT.	FINISH	HEAD	JAMB	SILL			
101	LOBBY/OFFICE	D	3'-0"	T-0"	H.M.	PRIMED FOR PT.	H.M.	PRIMED FOR PT.	6/A601	5/A601	7/A601	2		
102	LOBBY/OFFICE	A	3'-0"	T-0"	H.M.	PRIMED FOR PT.	H.M.	PRIMED FOR PT.	4/A601	3/A601	8/A601	7		
103A	DAY ROOM	G	3'-0"	T-0"	H.M.	PRIMED FOR PT.	H.M.	PRIMED FOR PT.	2/A601	1/A601	8/A601	5		
103B	DAY ROOM	F	3'-0"	T-0"	H.M.	PRIMED FOR PT.	H.M.	PRIMED FOR PT.	4/A601	3/A601	8/A601	3		
105	DINING	D	3'-0"	T-0"	H.M.	PRIMED FOR PT.	H.M.	PRIMED FOR PT.	6/A601	5/A601	7/A601	1		
106	PANTRY	C	6'-0"	T-0"	H.M.	PRIMED FOR PT.	H.M.	PRIMED FOR PT.				8		
107	STORAGE	E	6'-0"	T-0"	H.M.	PRIMED FOR PT.	H.M.	PRIMED FOR PT.			8/A601	4		
108	EXTRACTOR	C	6'-0"	T-0"	H.M.	PRIMED FOR PT.	H.M.	PRIMED FOR PT.	4/A601	3/A601	8/A601	4		
109	JANITOR	A	3'-6"	T-0"	H.M.	PRIMED FOR PT.	H.M.	PRIMED FOR PT.	4/A601	3/A601	8/A601	3		
110A	APPARATUS BAY	D	3'-0"	T-0"	H.M.	PRIMED FOR PT.	H.M.	PRIMED FOR PT.	6/A601	5/A601	7/A601	2		
110B	APPARATUS BAY	J	12'-0"	15'-4"		REFINISHED		REFINISHED						
110C	APPARATUS BAY	J	12'-0"	15'-4"		REFINISHED		REFINISHED						
110D	APPARATUS BAY	J	12'-0"	15'-4"		REFINISHED		REFINISHED						
110E	APPARATUS BAY	D	3'-0"	T-0"	H.M.	PRIMED FOR PT.	H.M.	PRIMED FOR PT.	6/A601	5/A601	7/A601	2		
110F	APPARATUS BAY	H	12'-0"	14'-0"		REFINISHED		REFINISHED						
110G	APPARATUS BAY	H	12'-0"	14'-0"		REFINISHED		REFINISHED						
110H	APPARATUS BAY	H	12'-0"	14'-0"		REFINISHED		REFINISHED						
111	STOR.	A	3'-0"	T-0"	H.M.	PRIMED FOR PT.	H.M.	PRIMED FOR PT.	4/A601	3/A601	8/A601	3		
112	MECH	C	6'-0"	T-0"	H.M.	PRIMED FOR PT.	H.M.	PRIMED FOR PT.	4/A601	3/A601	8/A601	4		
113A	CORRIDOR	D	3'-0"	T-0"	H.M.	PRIMED FOR PT.	H.M.	PRIMED FOR PT.	6/A601	5/A601	7/A601	2		
113B	APPARATUS BAY	F	3'-0"	T-0"	H.M.	PRIMED FOR PT.	H.M.	PRIMED FOR PT.	4/A601	3/A601	8/A601	3		
113C	APPARATUS BAY	F	3'-0"	T-0"	H.M.	PRIMED FOR PT.	H.M.	PRIMED FOR PT.	4/A601	3/A601	8/A601	3		
114A	CORRIDOR	A	3'-0"	T-0"	H.M.	PRIMED FOR PT.	H.M.	PRIMED FOR PT.	4/A601	3/A601	8/A601	6		
114B	WORKOUT ROOM	D	3'-0"	T-0"	H.M.	PRIMED FOR PT.	H.M.	PRIMED FOR PT.	6/A601	5/A601	7/A601	2		
115	CORRIDOR	A	3'-0"	T-0"	H.M.	PRIMED FOR PT.	H.M.	PRIMED FOR PT.	4/A601	3/A601	8/A601	7		
116	CORRIDOR	A	3'-0"	T-0"	H.M.	PRIMED FOR PT.	H.M.	PRIMED FOR PT.	4/A601	3/A601	8/A601	7		
117	CORRIDOR	A	3'-0"	T-0"	H.M.	PRIMED FOR PT.	H.M.	PRIMED FOR PT.	4/A601	3/A601	8/A601	7		
118	CORRIDOR	A	3'-0"	T-0"	H.M.	PRIMED FOR PT.	H.M.	PRIMED FOR PT.	4/A601	3/A601	8/A601	7		
119	CORRIDOR	A	3'-0"	T-0"	H.M.	PRIMED FOR PT.	H.M.	PRIMED FOR PT.	4/A601	3/A601	8/A601	7		
120	CORRIDOR	A	3'-0"	T-0"	H.M.	PRIMED FOR PT.	H.M.	PRIMED FOR PT.	4/A601	3/A601	8/A601	7		
121	CORRIDOR	A	3'-0"	T-0"	H.M.	PRIMED FOR PT.	H.M.	PRIMED FOR PT.	4/A601	3/A601	8/A601	7		
122	CORRIDOR	A	3'-0"	T-0"	H.M.	PRIMED FOR PT.	H.M.	PRIMED FOR PT.	4/A601	3/A601	8/A601	7		
123	CORRIDOR	A	3'-0"	T-0"	H.M.	PRIMED FOR PT.	H.M.	PRIMED FOR PT.	4/A601	3/A601	8/A601	7		
124	CORRIDOR	A	3'-0"	T-0"	H.M.	PRIMED FOR PT.	H.M.	PRIMED FOR PT.	4/A601	3/A601	8/A601	7		
125	CORRIDOR	A	3'-0"	T-0"	H.M.	PRIMED FOR PT.	H.M.	PRIMED FOR PT.	4/A601	3/A601	8/A601	7		
126	CORRIDOR	A	3'-0"	T-0"	H.M.	PRIMED FOR PT.	H.M.	PRIMED FOR PT.	4/A601	3/A601	8/A601	7		

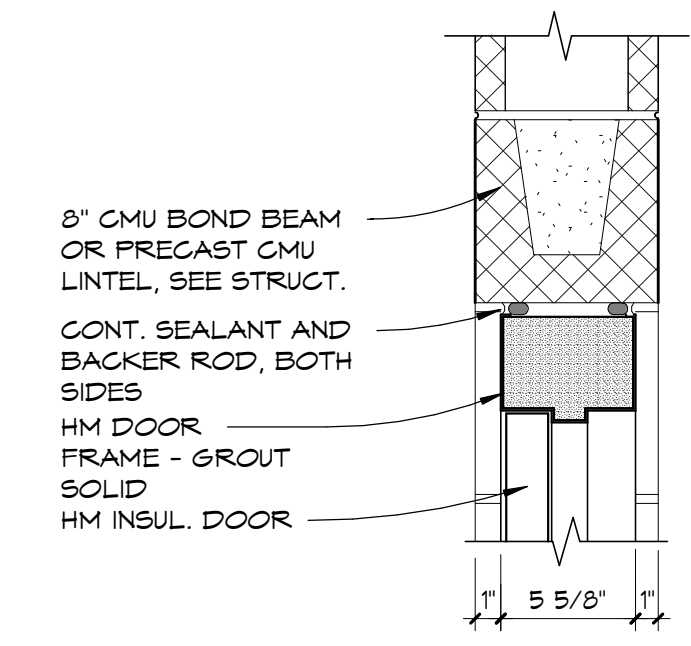
**8** TRANSITION - CONCRETE & CONCRETE  
1 1/2" = 1'-0"



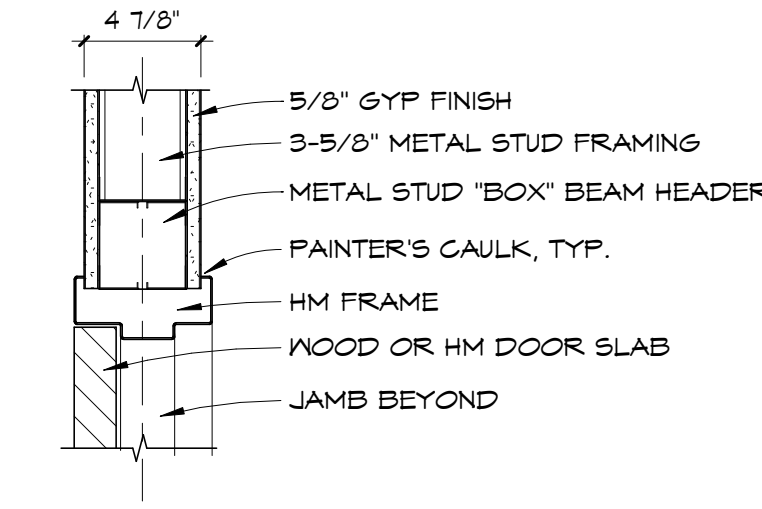
**6** EXTERIOR HM HEAD - BRICK VENEER  
1 1/2" = 1'-0"



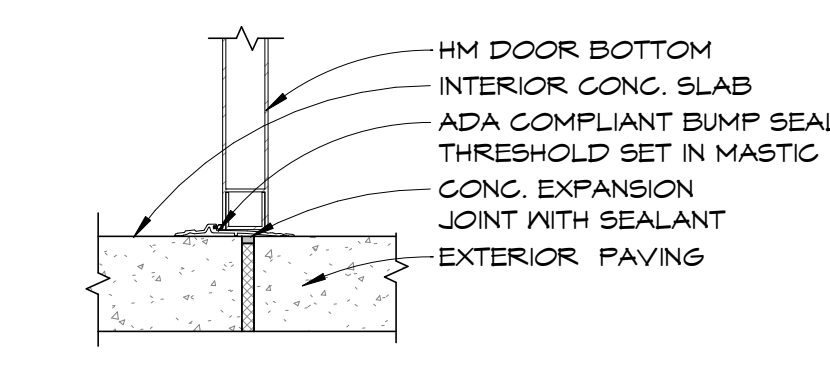
**4** INTERIOR HM HEAD - 8" CMU  
1 1/2" = 1'-0"



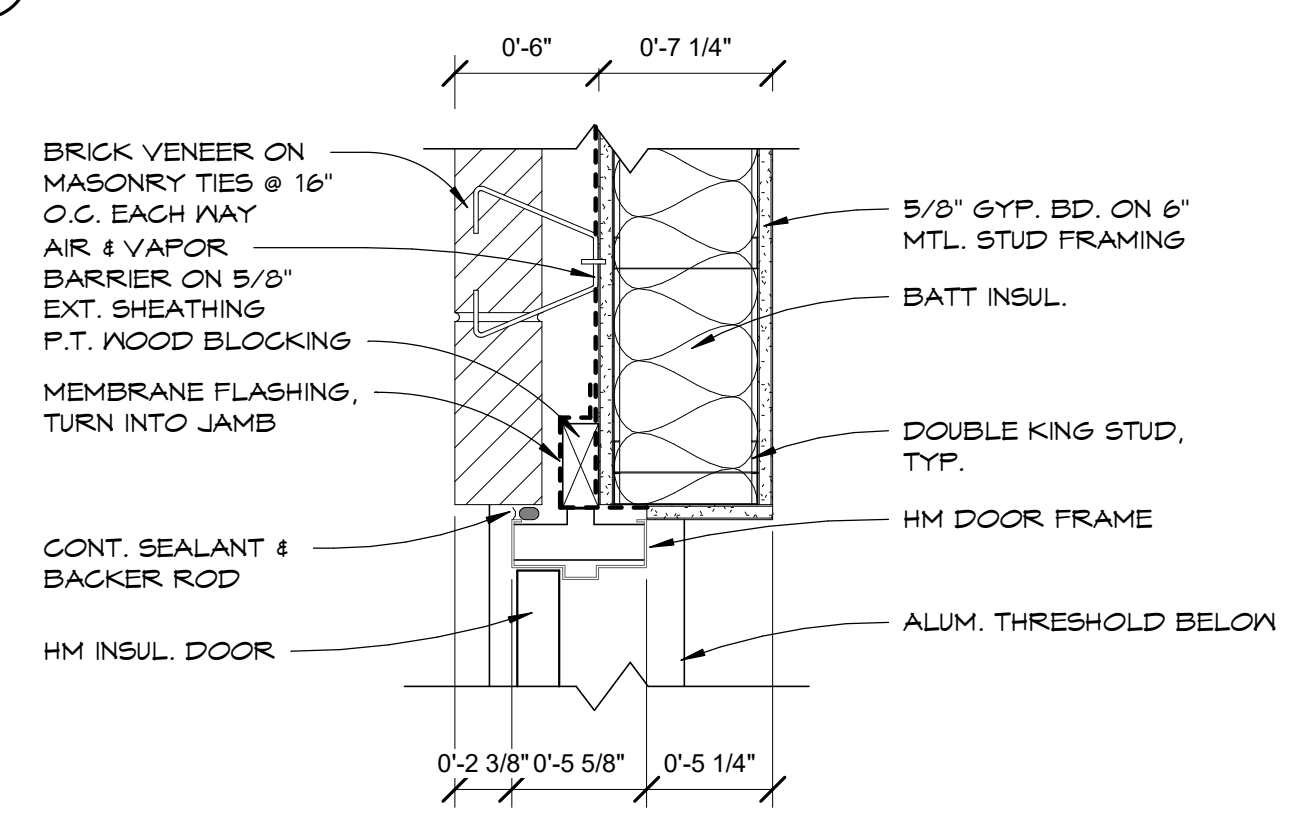
**2** INTERIOR HM HEAD - 3-5/8" MTL STUD  
1 1/2" = 1'-0"



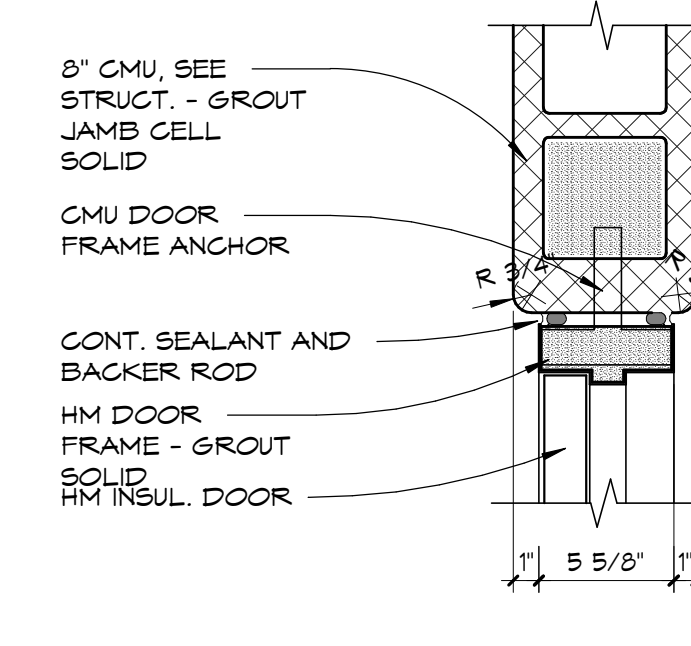
**7** EXTERIOR HM SILL  
1 1/2" = 1'-0"



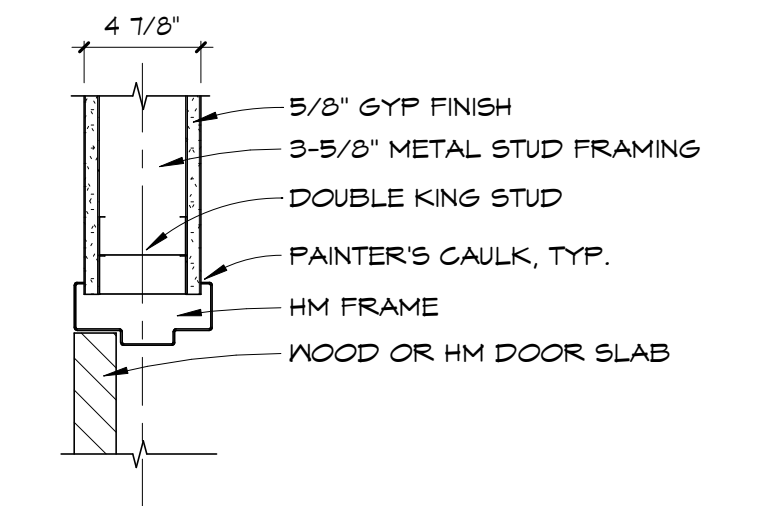
**5** EXTERIOR HM JAMB - BRICK VENEER  
1 1/2" = 1'-0"



**3** INTERIOR HM JAMB - 8" CMU  
1 1/2" = 1'-0"



**1** INTERIOR HM JAMB - 3-5/8" MTL STUD  
1 1/2" = 1'-0"



ARCHITECTURE PLANNING INTERIOR DESIGN

Lyman Davidson Dooley, Inc.  
1648 Powers Ferry Road  
Building One  
Marietta, GA 30067  
770.850.8494 f  
770.956.9030 f  
liddi-architects.com

REVISIONS

STATE OF GEORGIA  
JAMES DOUGLAS DAVIDSON  
REGISTERED ARCHITECT

NEW CONSTRUCTION  
ROCKDALE FIRE STATION 10  
ROCKDALE, GEORGIA

ROCKDALE FIRE STATION 10  
3130 GA Hwy. 138  
Conyers, GA 30013

ROCKDALE CO. FIRE DEPT.  
Fire Station No. 7  
1496 Rockbridge Road  
Conyers, GA 30012

TITLE: DOOR SCHEDULE, DETAILS, WINDOW TYPES  
STATUS: Issue for Permit  
JOB: 121038.00  
QC: Checker  
DRAWN: Author  
SHEET: **A601**  
DATE: 06/22/22

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**CHARACTER PROPORTIONS:**  
LETTERS AND NUMBERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO BETWEEN 3/5 AND 1/1 AND A STROKE-WIDTH-TO-HEIGHT RATIO BETWEEN 1/5 AND 1/10, UTILIZING AN UPPER CASE 'X' FOR MEASUREMENT.

**CHARACTER HEIGHT:**  
SEE LETTER AND NUMBER HEIGHT CHART BELOW  
EXCEPTION: CHARACTER HEIGHT SHALL BE 5/8" HIGH MINIMUM FOR BUILDING DIRECTORIES.

**PICTOGRAMS:**  
WHERE PICTOGRAMS ARE REQUIRED, THEY SHALL HAVE A 6" MINIMUM SIZE MEASURED AT THE BORDER. WHERE TEXT DESCRIPTORS FOR PICTOGRAMS ARE REQUIRED, THEY SHALL COMPLY WITH THE TACTILE CHARACTER PROVISIONS OF RAISED CHARACTERS AND SYMBOLS, BRAILLE, AND LOCATION OF TACTILE SIGNAGE PORTIONS BELOW.

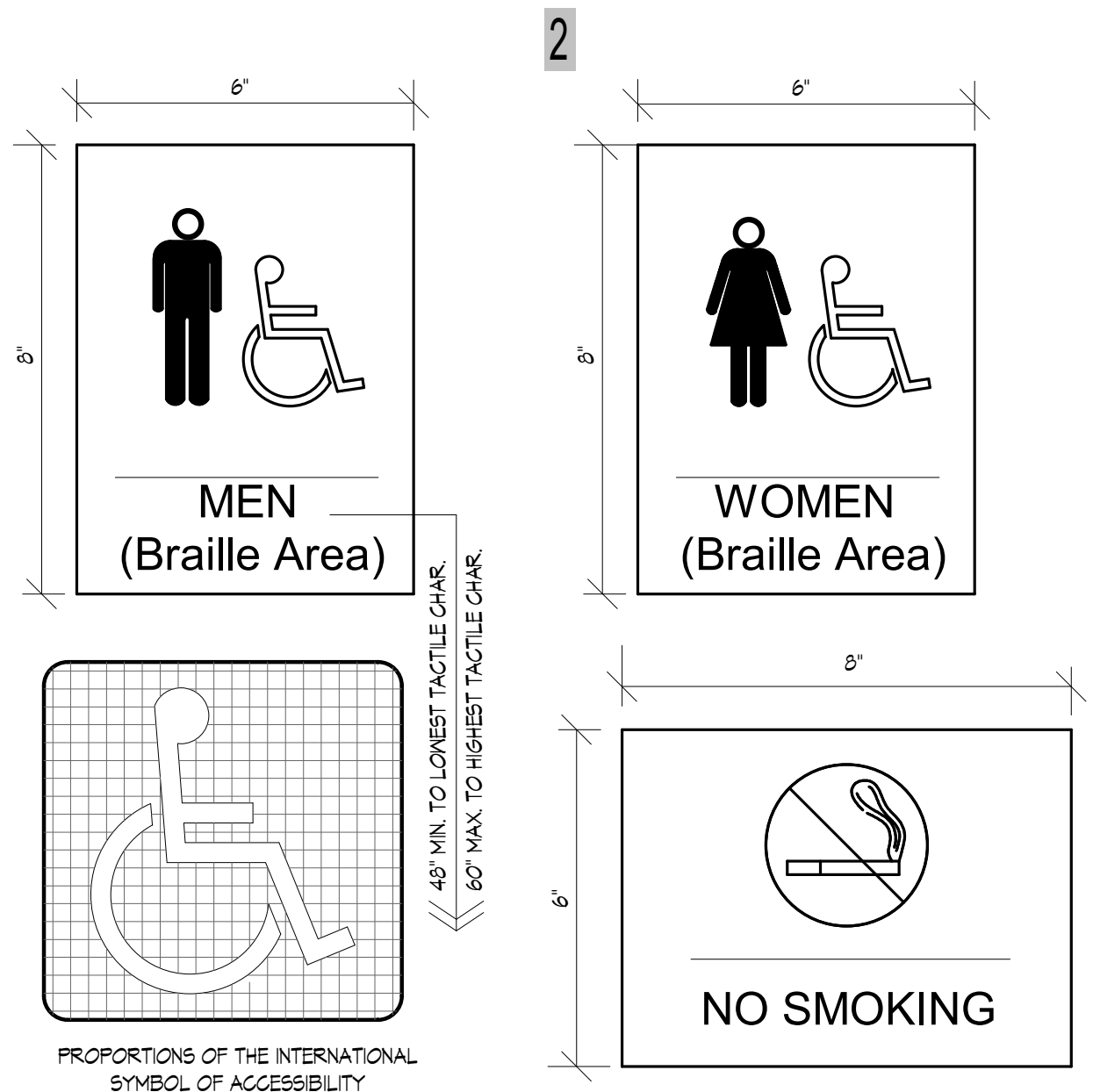
**FINISH AND CONTRAST:**  
THE CHARACTERS, SYMBOLS AND BACKGROUND OF SIGNS SHALL BE EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND, WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.

**RAISED CHARACTERS AND SYMBOLS:**  
CHARACTERS AND SYMBOLS ON TACTILE SIGNS SHALL BE RAISED 1/32" MINIMUM. RAISED CHARACTERS AND SYMBOLS SHALL BE IN UPPER CASE CHARACTERS. RAISED CHARACTERS AND SYMBOLS SHALL BE 5/8" HIGH MINIMUM AND 2" MAXIMUM. RAISED CHARACTERS AND SYMBOLS SHALL BE ACCOMPANIED BY BRAILLE IN ACCORDANCE WITH THE PROVISIONS OUTLINED BELOW.

**BRAILLE:**  
BRAILLE SHALL BE SEPARATED 1/2" MINIMUM FROM THE CORRESPONDING RAISED CHARACTERS OR SYMBOLS. BRAILLE PROVIDED IN ACCORDANCE WITH THE REQUIREMENTS FOR ELEVATOR CONTROLS SHALL BE PLACED 3/16" MINIMUM BELOW THE CORRESPONDING CHARACTERS OR SYMBOLS. BRAILLE SHALL BE GRADE II AND SHALL CONFORM TO SPECIFICATION #300, NATIONAL LIBRARY SERVICE, LIBRARY OF CONGRESS.

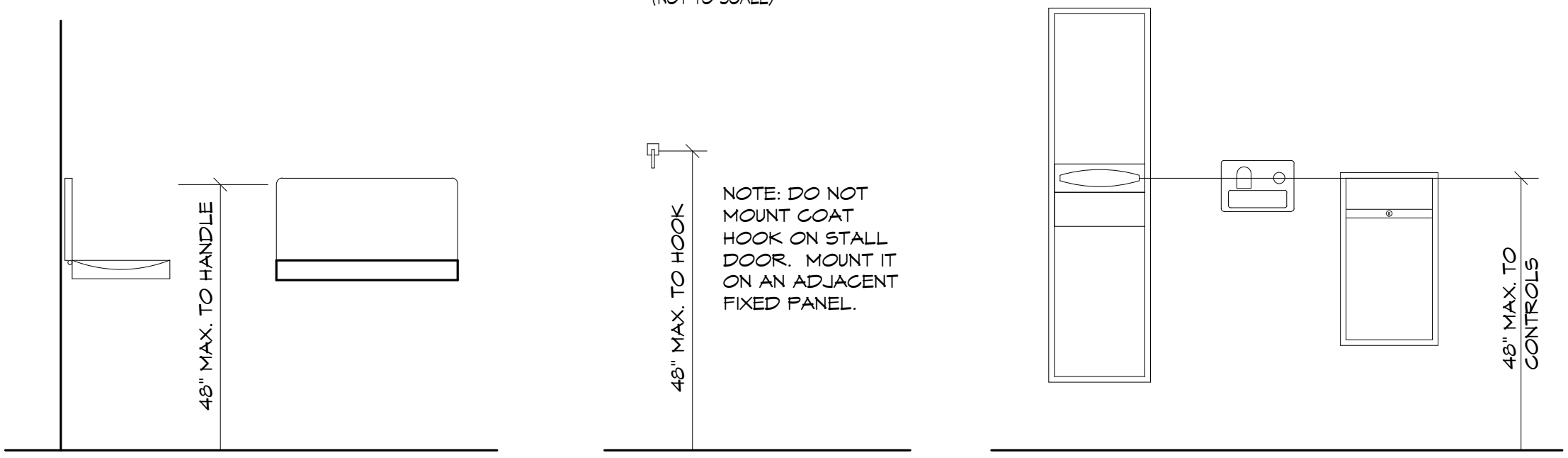
**LOCATION OF TACTILE SIGNAGE:**  
TACTILE SIGNAGE SHALL BE LOCATED ALONGSIDE THE DOOR ON THE LATCH SIDE AND SHALL BE MOUNTED AS SHOWN IN DIAGRAM. IN LOCATIONS HAVING DOUBLE DOORS, TACTILE SIGNS SHALL BE MOUNTED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE OF THE DOOR INCLUDING DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18 INCHES MINIMUM BY 18 INCHES MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION.

**GENERAL NOTE:**  
ANY ADDITIONAL TEXT REQUIRED DUE TO LOCAL ORDINANCES (FINES FOR PARKING IN ACCESSIBLE SPACES, ETC.) SHALL COMPLY WITH THE SIGNAGE REQUIREMENTS ABOVE.



LETTER AND NUMBER HEIGHTS	
HEIGHT ABOVE FLOOR/ GROUND:	MINIMUM CHARACTER HEIGHT:
MORE THAN 120"	3"
MORE THAN 70" BUT NOT MORE THAN 120"	2"
MORE THAN 40" BUT NOT MORE THAN 70"	5/8"

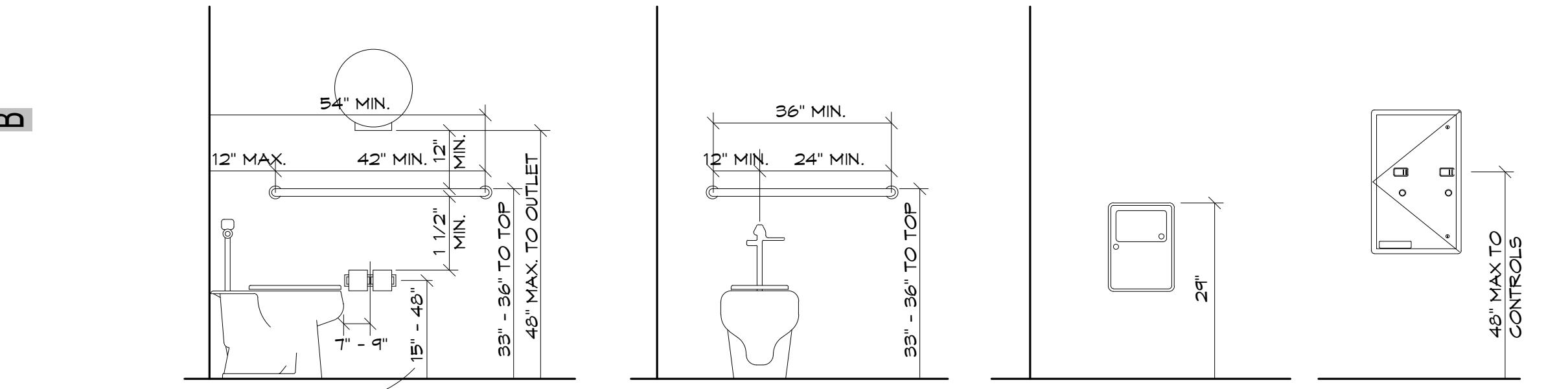
**TYPICAL ADA SIGNAGE**  
(NOT TO SCALE)



BABY CHANGER

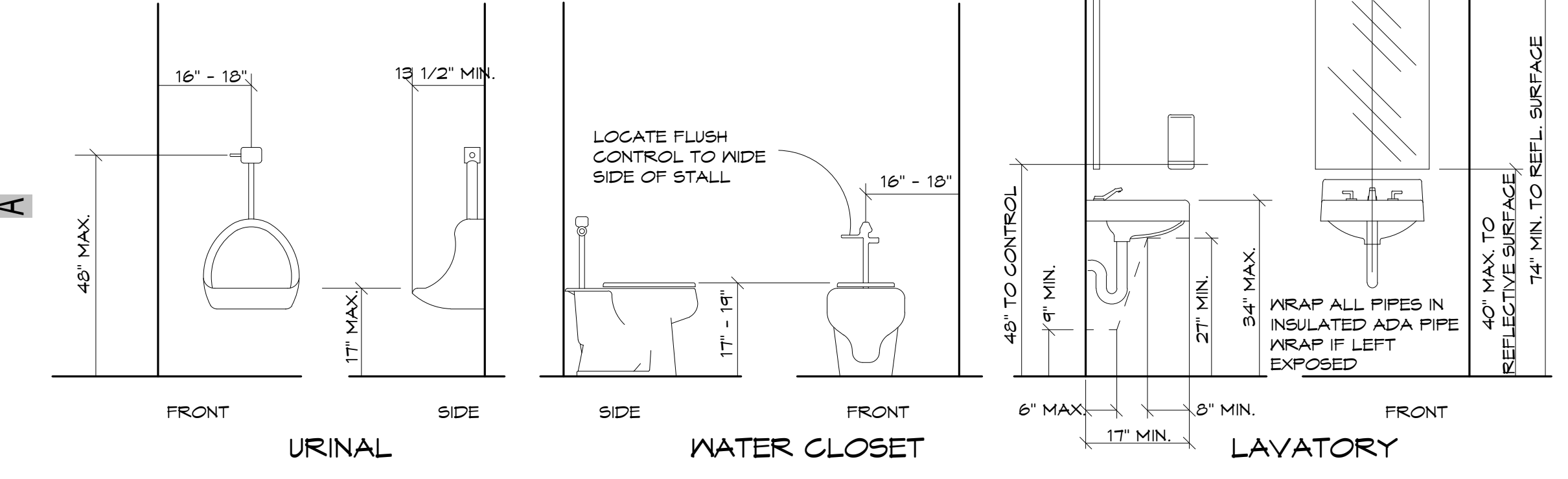
COAT HOOK

HAND DRYING



TOILET STALL

SANITARY NAPKIN DISPOSAL AND DISPENSER

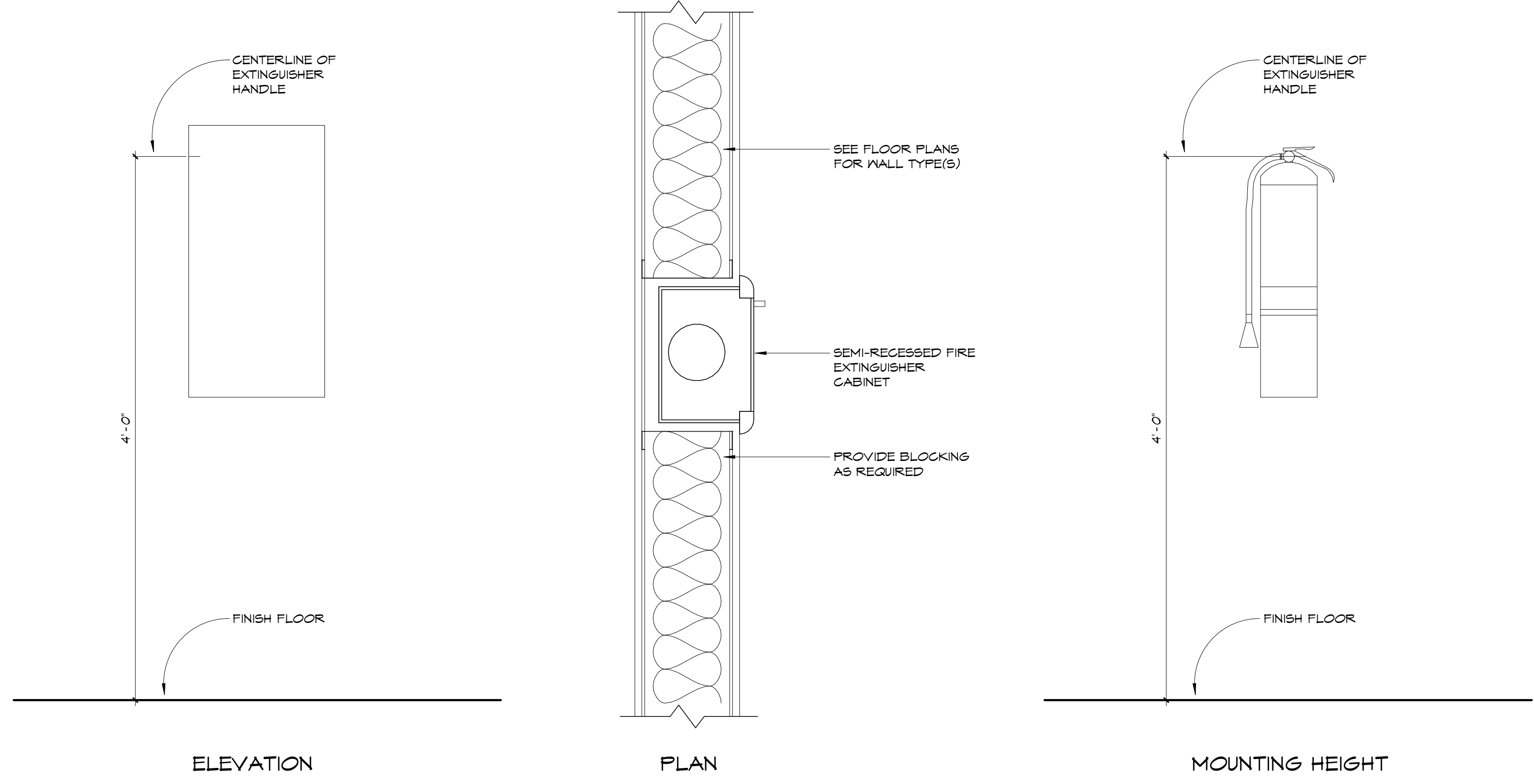


URINAL

WATER CLOSET

LAVATORY

**2010 ADA CLEARANCES AT TOILET FIXTURES AND ACCESSORIES**



ELEVATION

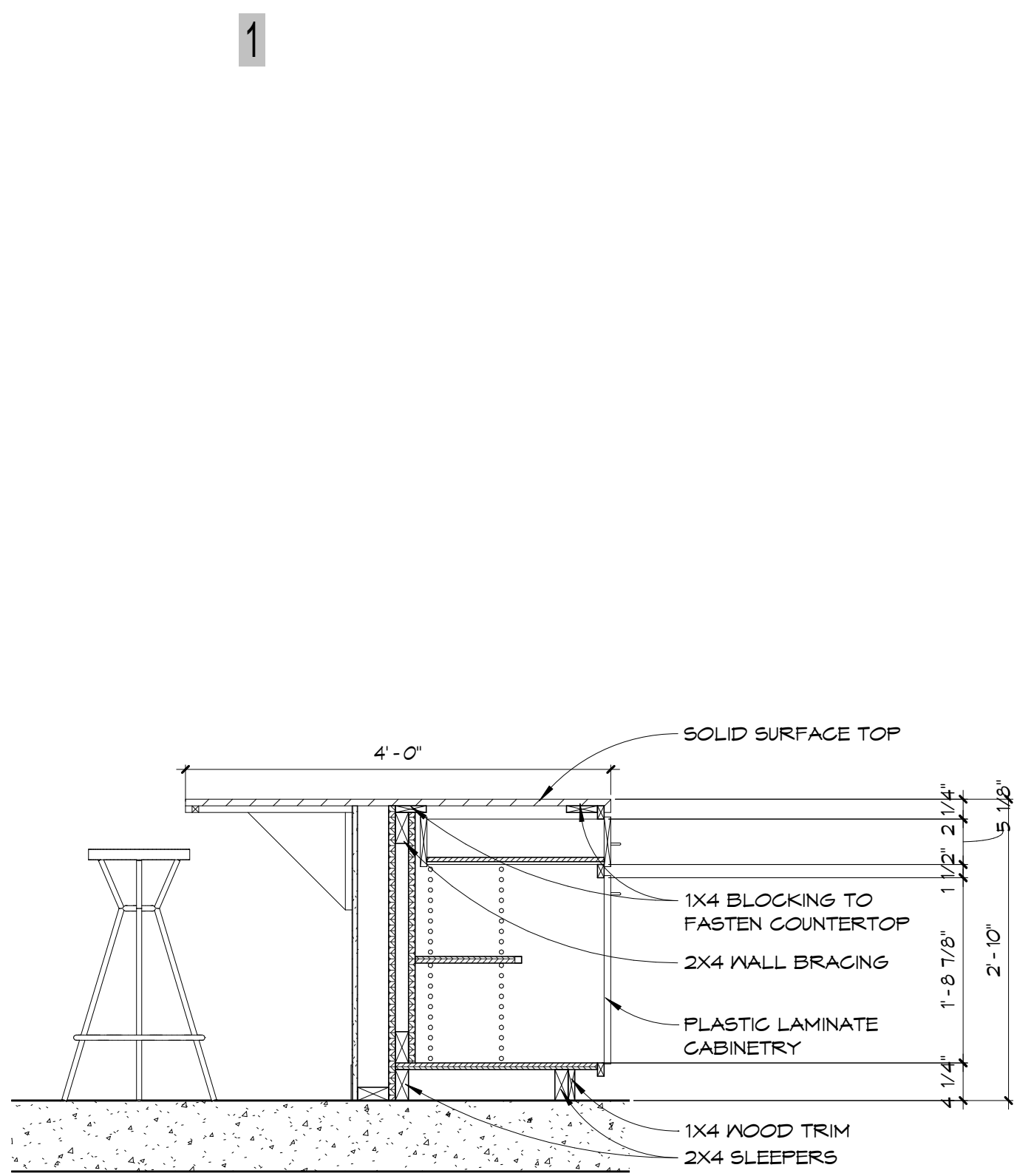
PLAN

MOUNTING HEIGHT

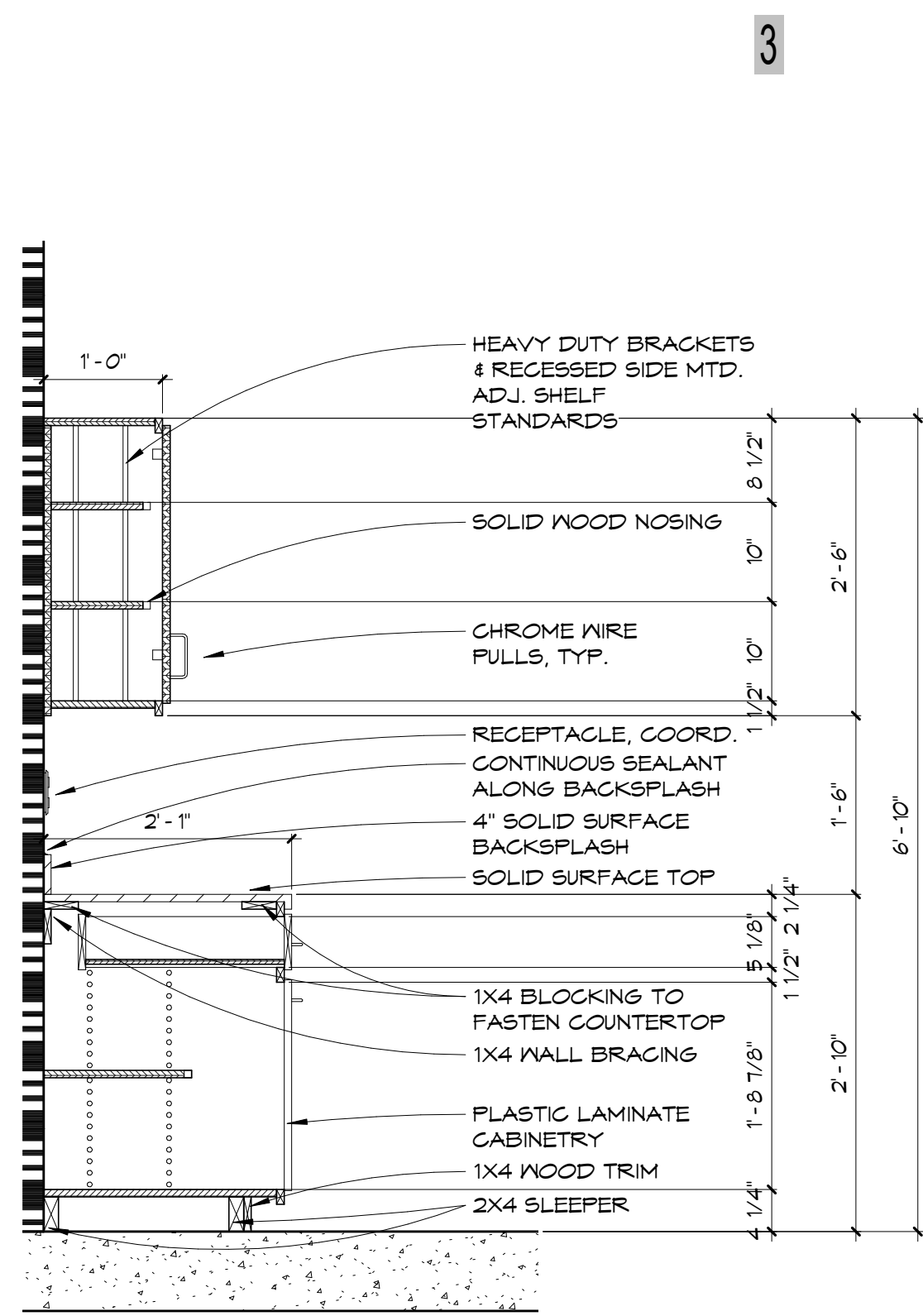
**1 FIRE EXTINGUISHER DETAILS**  
1 1/2" = 1'-0"

C:\Projects\Rockdale Station #10\_Central\_R22\_baker\XYQR.rvt  
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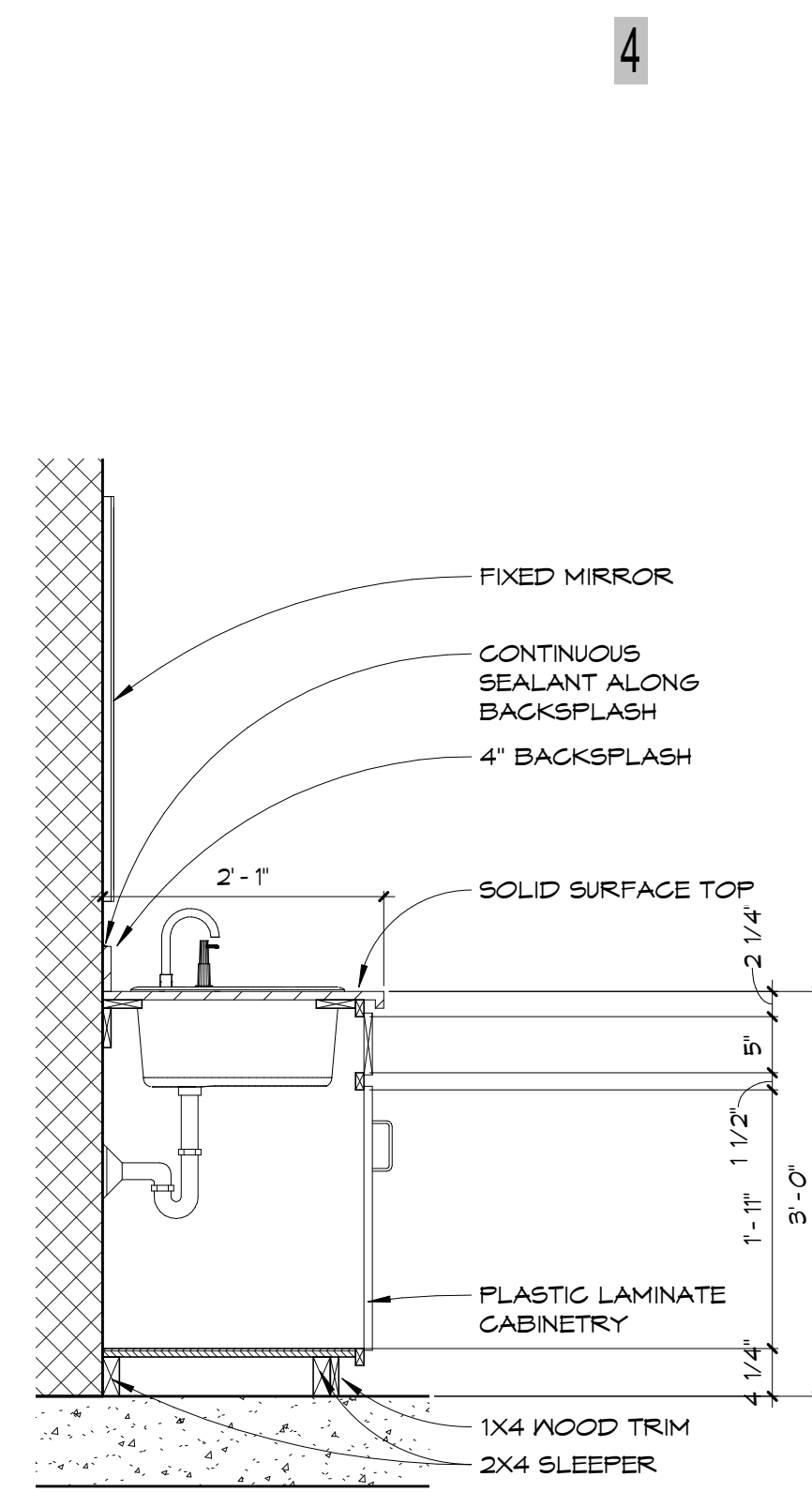
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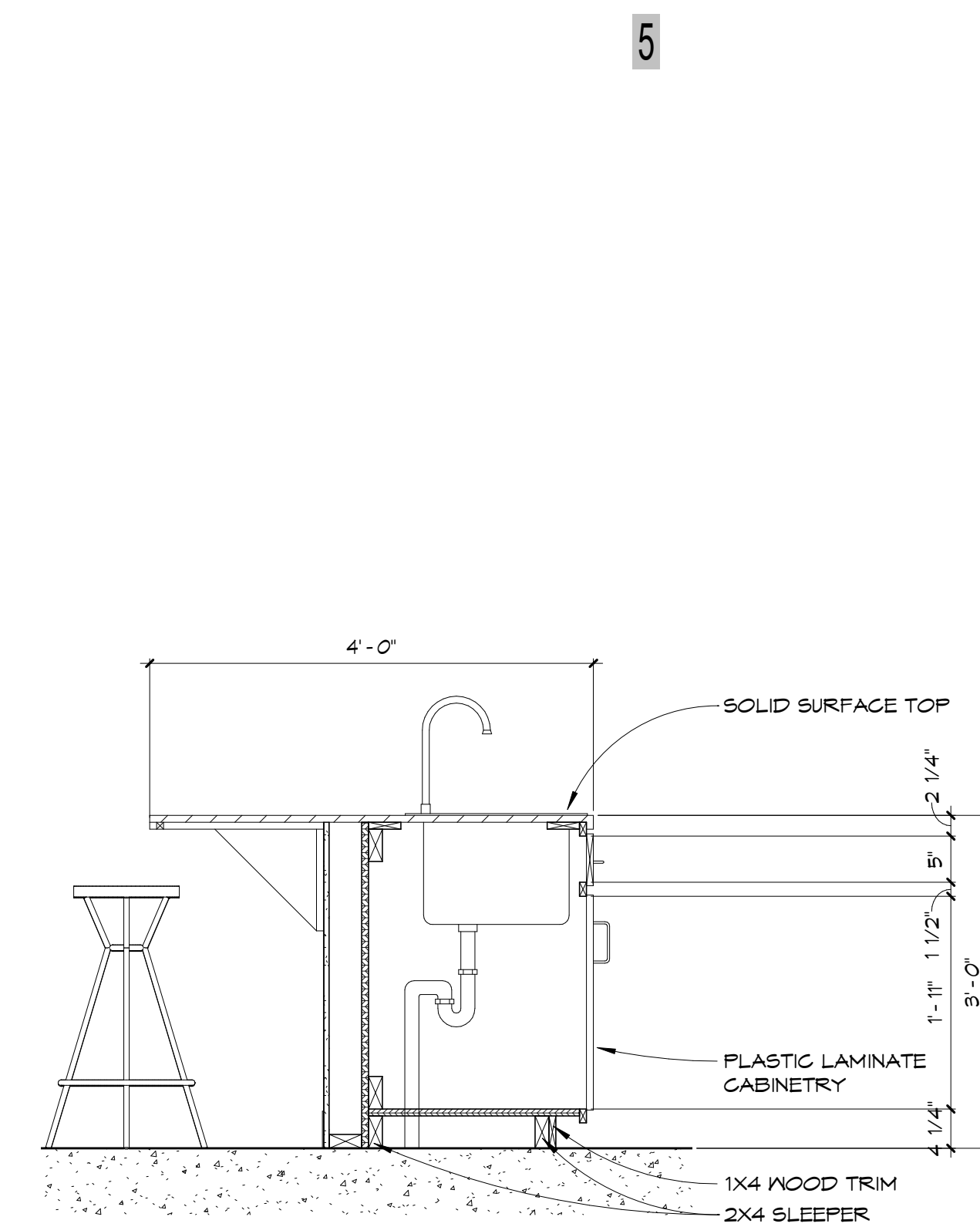
**7** CABINET SECTION  
3/4" = 1'-0"



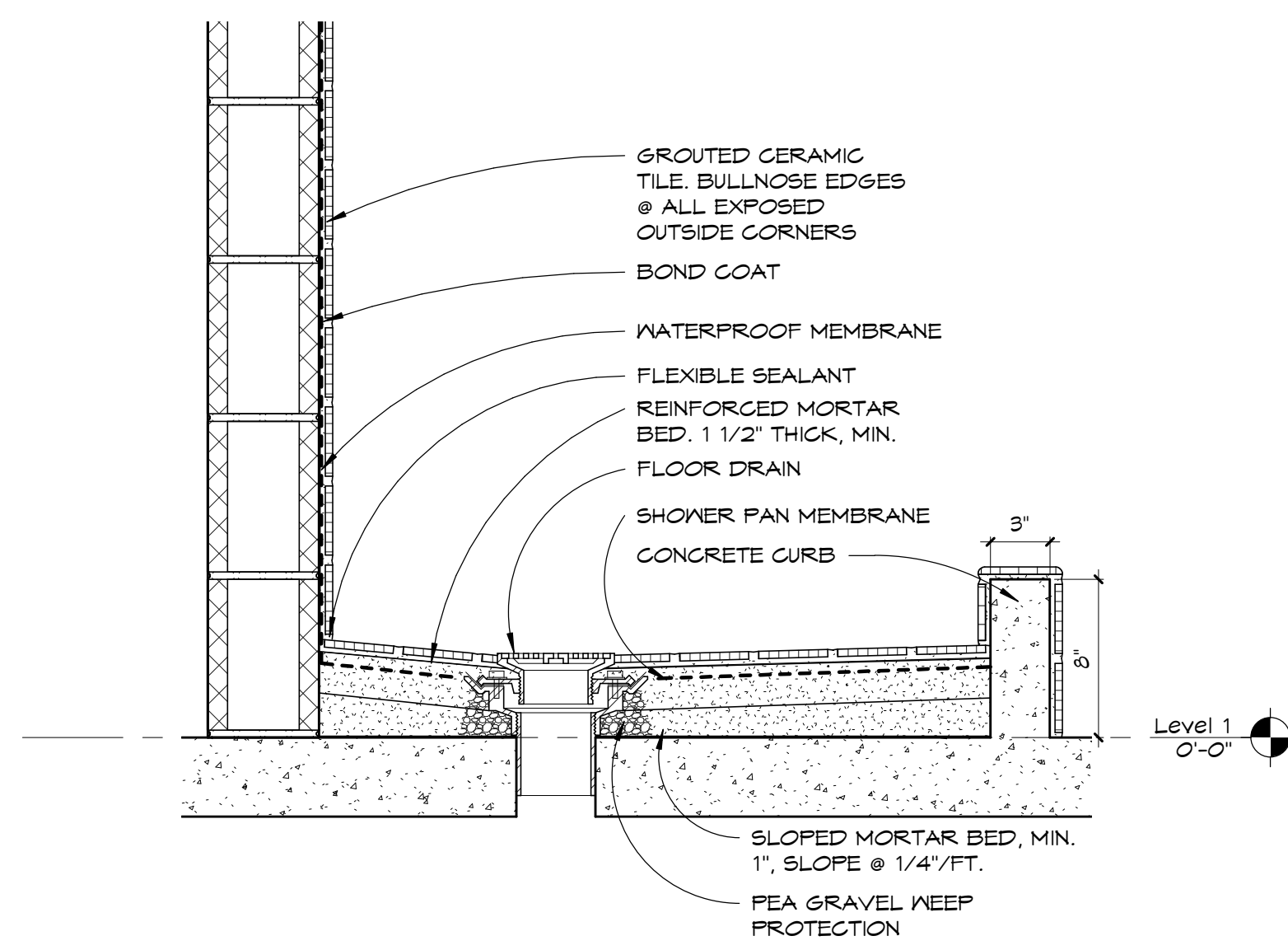
**6** CABINET SECTION  
3/4" = 1'-0"



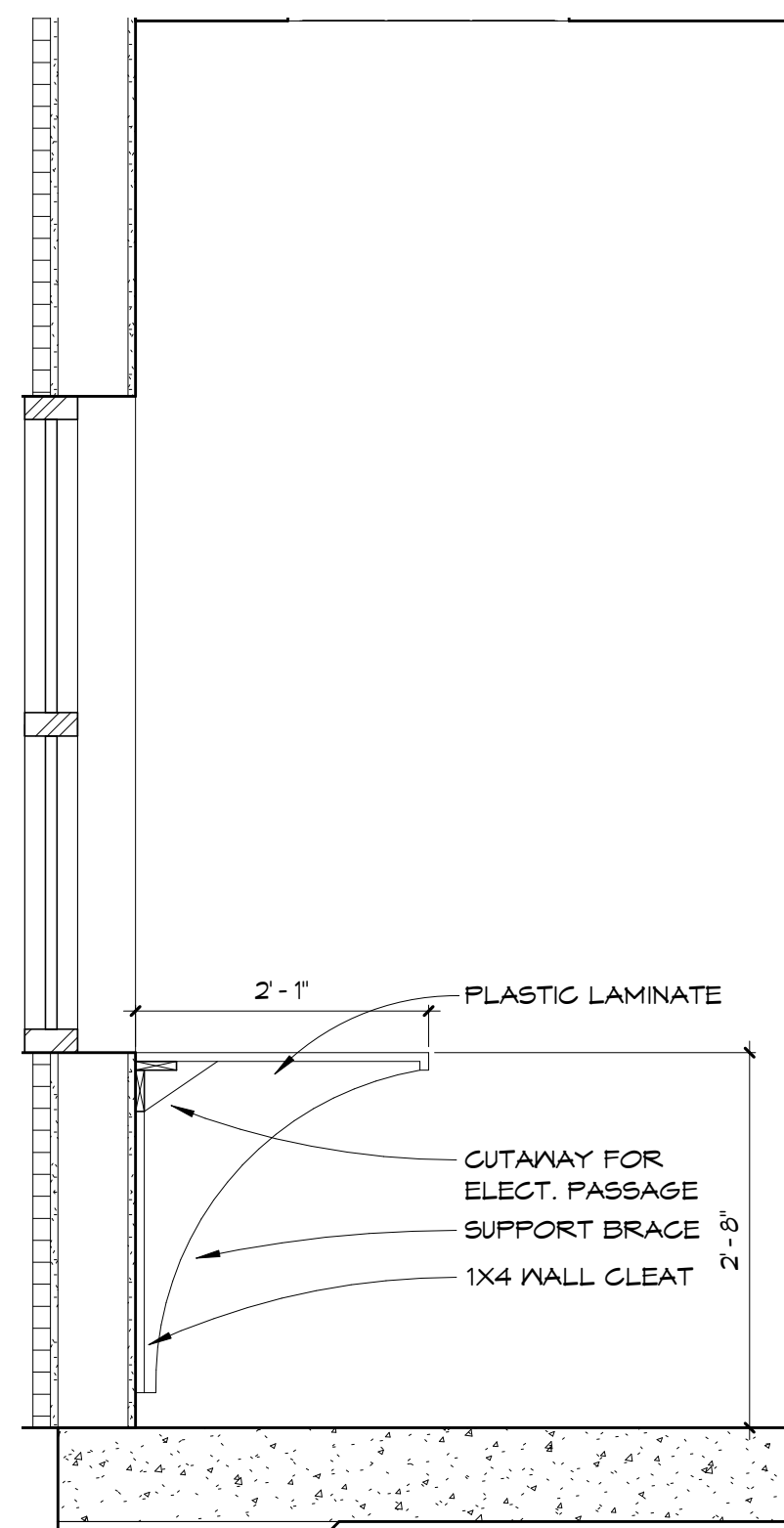
**5** CABINET SECTION  
3/4" = 1'-0"



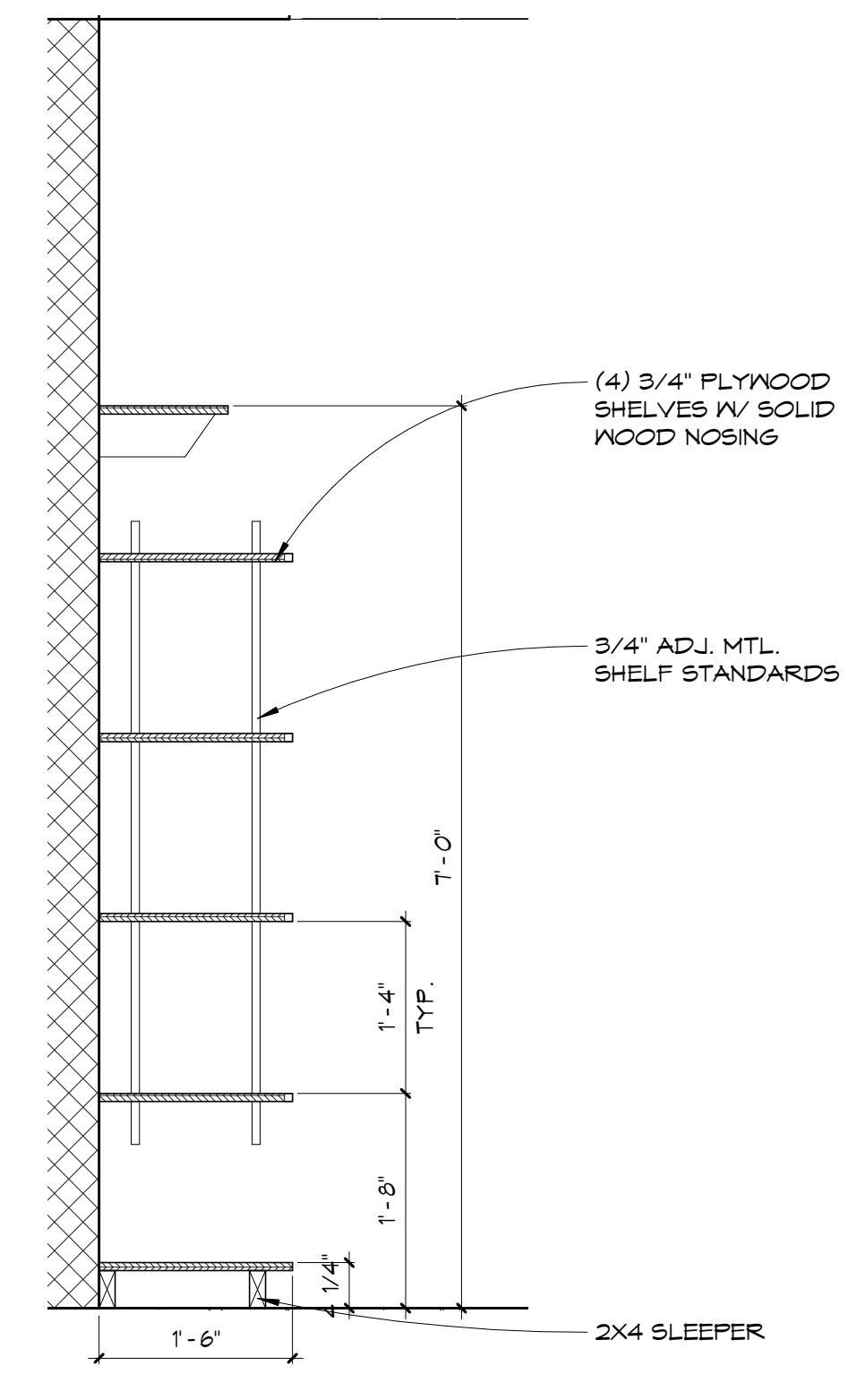
**4** CABINET SECTION  
3/4" = 1'-0"



**3** SHOWER DETAIL  
1 1/2" = 1'-0"



**2** DESK SECTION  
3/4" = 1'-0"



**1** SHELVING DETAIL  
3/4" = 1'-0"



INTERIOR FINISH SCHEDULE

Table with columns: MARK, ROOM NAME, WALLS (MATERIAL, FINISH), CEILING (MATERIAL, FINISH, HEIGHT), BASE (MATERIAL, FINISH), FLOOR, REMARKS. Rows 101-126.

ABBREVIATIONS:
A.C.T. = ACOUSTICAL CEILING TILE
A.C.T. - F.S. = ACOUSTICAL CEILING TILE - FOOD SERVICE
A.C.T. - M.R. = ACOUSTICAL CEILING TILE - MOISTURE RESISTANT
CMU = CONCRETE MASONRY UNITS
E.S. = EXPOSED TO STRUCTURE
F.F. = FACTORY FINISH
M.P. = METAL PANELS

\* REMARKS:
1. ALL CONCRETE SLABS SHALL RECEIVE (2) COATS OF SEALER.
2. SHOWER WALLS AND FLOOR TO BE CERAMIC TILE.
3. STYLE & COLOR TBD BY OWNER.

GENERAL FINISH NOTES:
A. ADVISE CONSULTANT OF ANY CONFLICT IV/ FINISHES PRIOR TO INSTALLATION.
B. ALL FINISH MATERIALS ARE FURNISHED AND INSTALLED BY CONTRACTOR, UNLESS NOTED OTHERWISE.
C. ALL EXPOSED DUCTWORK, PIPING AND CONDUIT TO REMAIN UNPAINTED.
D. COORDINATE & CONFIRM COMPATABILITY OF ALL FINISHES, (INTERIOR & EXTERIOR) MATERIALS, SEALANTS, SEALERS, PAINT, CAULK, ADHESIVES, ETC. WITH SUBSTRATES, ADJACENT MATERIALS, ETC.
E. ALL FINISHES IN EXIT PASSAGEWAYS SHALL BE CLASS A OR B. ALL OTHERS SHALL BE CLASS C MINIMUM.
F. ALL FINISHES TO BE SELECTED BY THE OWNER.

PAINTING NOTES:
A. HOLLOW METAL DOORS & FRAMES RECEIVE (2) COATS OF ENAMEL.
B. OVERHEAD DOOR GUARD POSTS RECEIVE (2) COATS OF ENAMEL.
C. ALL EXPOSED STEEL SHALL RECEIVE (1) SHOP COAT OF RUST PREVENTATIVE PRIMER, TOUCH UP STEEL WITH MATCHING PRIMER AFTER STEEL ERECTION IS COMPLETE.
D. CMU SHALL RECEIVE BLOCK FILLER, (1) COAT PRIMER AND (1) COAT HIGH GLOSS PAINT.

REVISIONS



NEW CONSTRUCTION ROCKDALE FIRE STATION 10 ROCKDALE, GEORGIA

ROCKDALE FIRE STATION 10 3130 GA Hwy. 138 Conyers, GA 30013

ROCKDALE CO. FIRE DEPT. Fire Station No. 7 1496 Rockbridge Road Conyers, GA 30012

TITLE FINISH PLANS

STATUS Issue for Permit JOB 121038.00 QC Checker

DRAWN Author

SHEET A801

DATE 06/22/22

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1

2

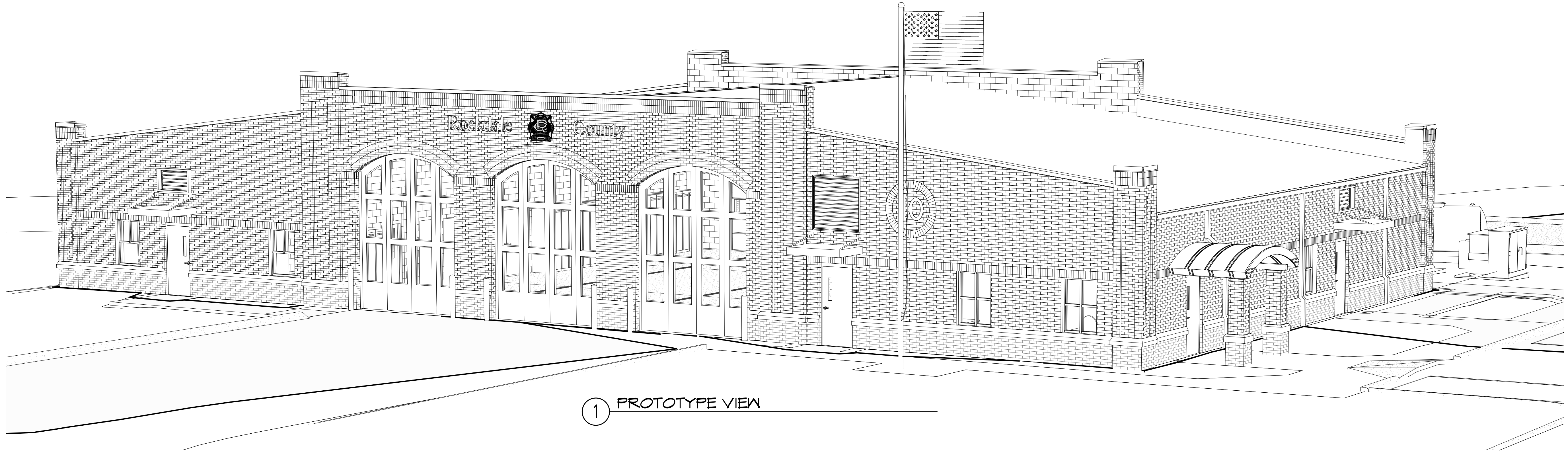
3

4

5

D

C



1 PROTOTYPE VIEW

B

A



2 PROTOTYPE VIEW

1

2

3

4

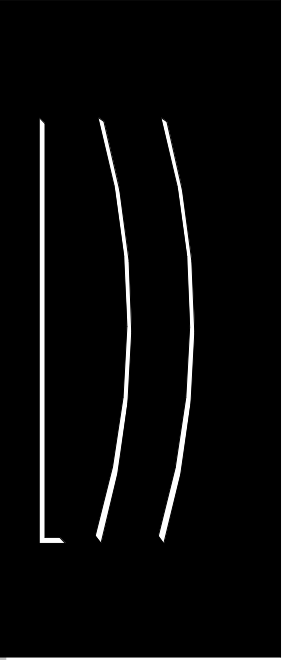
5

D

C

B

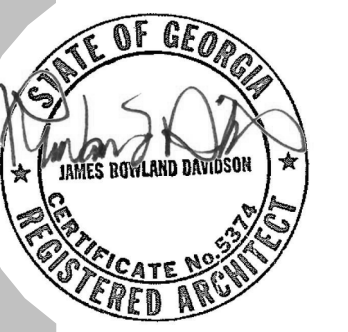
A



Lyman  
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1640 Powers Ferry Road  
Building One  
Marietta, GA 30067  
770.850.8494 f  
770.956.9030 f  
liddi-architects.com

REVISIONS

NO.	DESCRIPTION



NEW CONSTRUCTION  
**ROCKDALE FIRE  
STATION 10**  
ROCKDALE, GEORGIA

**ROCKDALE  
FIRE  
STATION 10**  
3130 GA Hwy. 138  
Coryers, GA 30013

**ROCKDALE  
CO. FIRE  
DEPT.**  
Fire Station No. 7  
1496 Rockbridge Road  
Coryers, GA 30012

TITLE 3D VIEWS (FOR REFERENCE ONLY)

STATUS Issue for Permit

JOB 121038.00

QC Checker

DRAWN Author

SHEET **A901**

DATE 06/22/22



REVISIONS

NO.	DATE	DESCRIPTION



NEW CONSTRUCTION  
**ROCKDALE FIRE  
STATION 10**  
ROCKDALE, GEORGIA

**ROCKDALE  
FIRE  
STATION 10**  
3130 GA Hwy, 138  
Conyers, GA 30013

**ROCKDALE  
CO. FIRE  
DEPT.**  
Fire Station No. 7  
1496 Rockbridge Road  
Conyers, GA 30012

TITLE DUMPSTER PLAN & DETAILS

STATUS Issue for Permit

JOB 121038.00

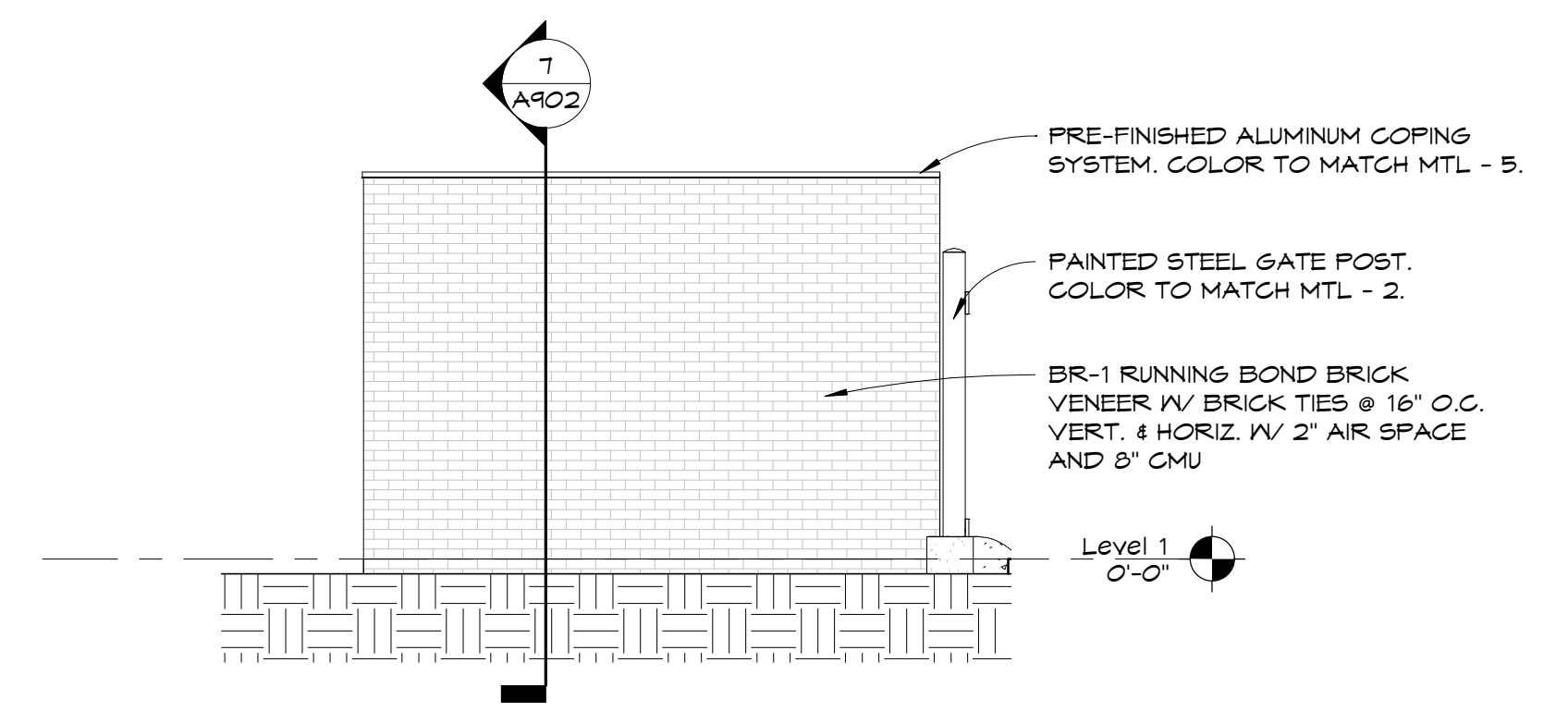
QC Checker

DRAWN Author

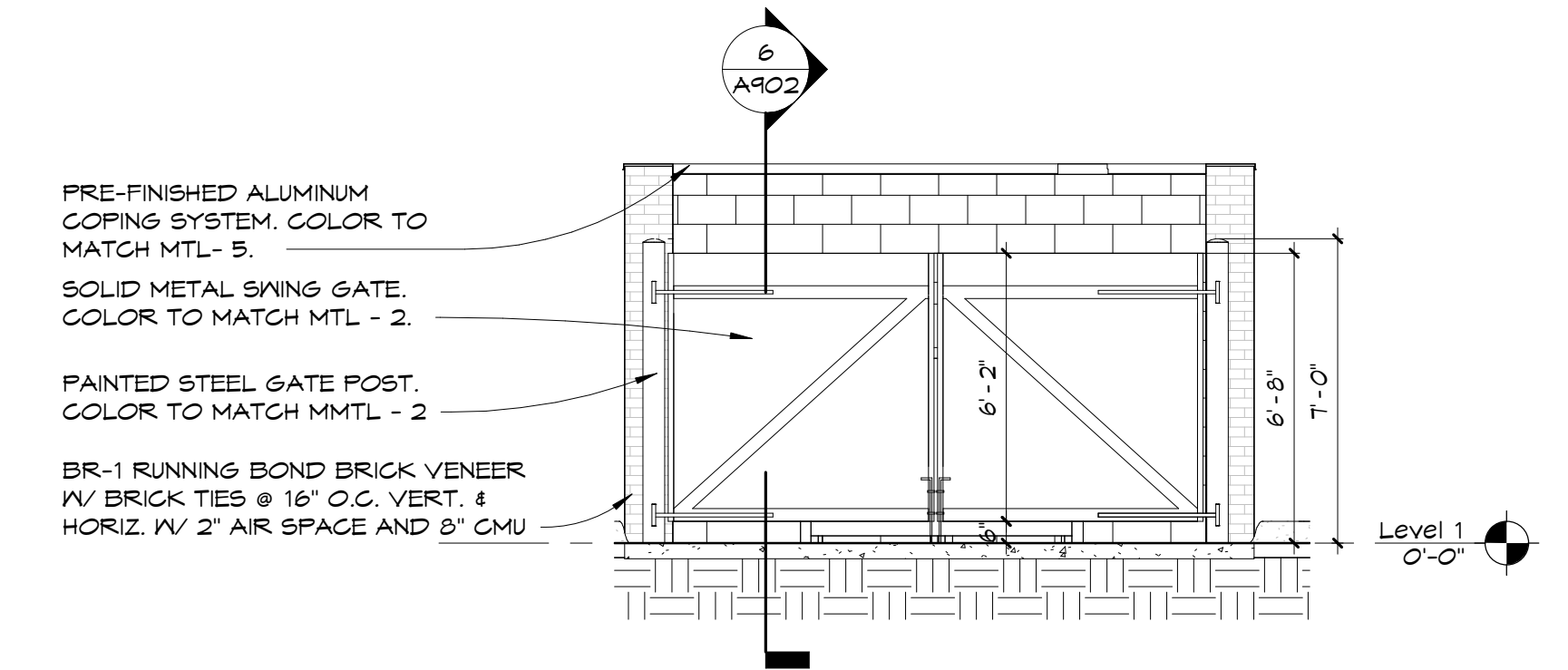
SHEET **A902**

DATE 06/22/22

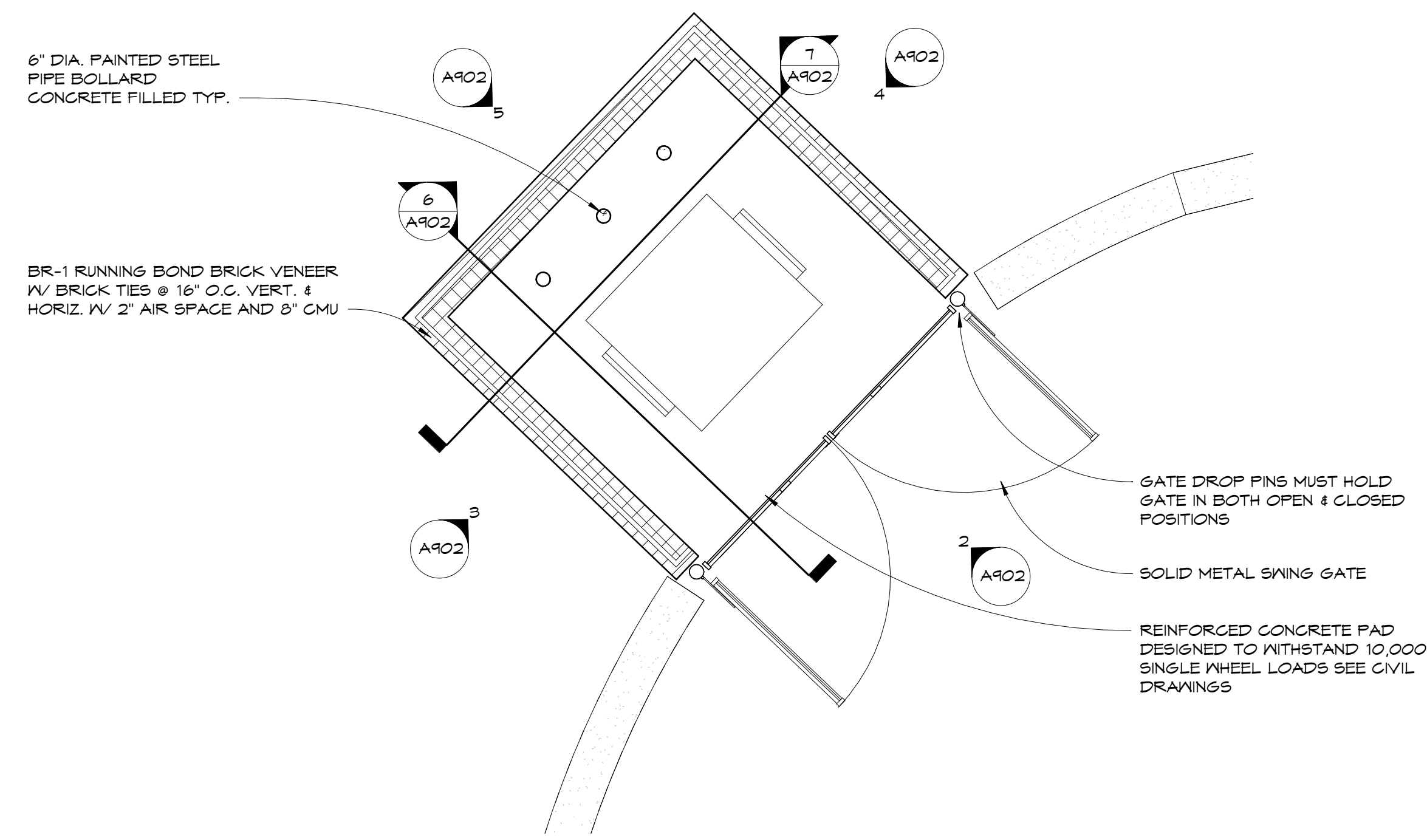
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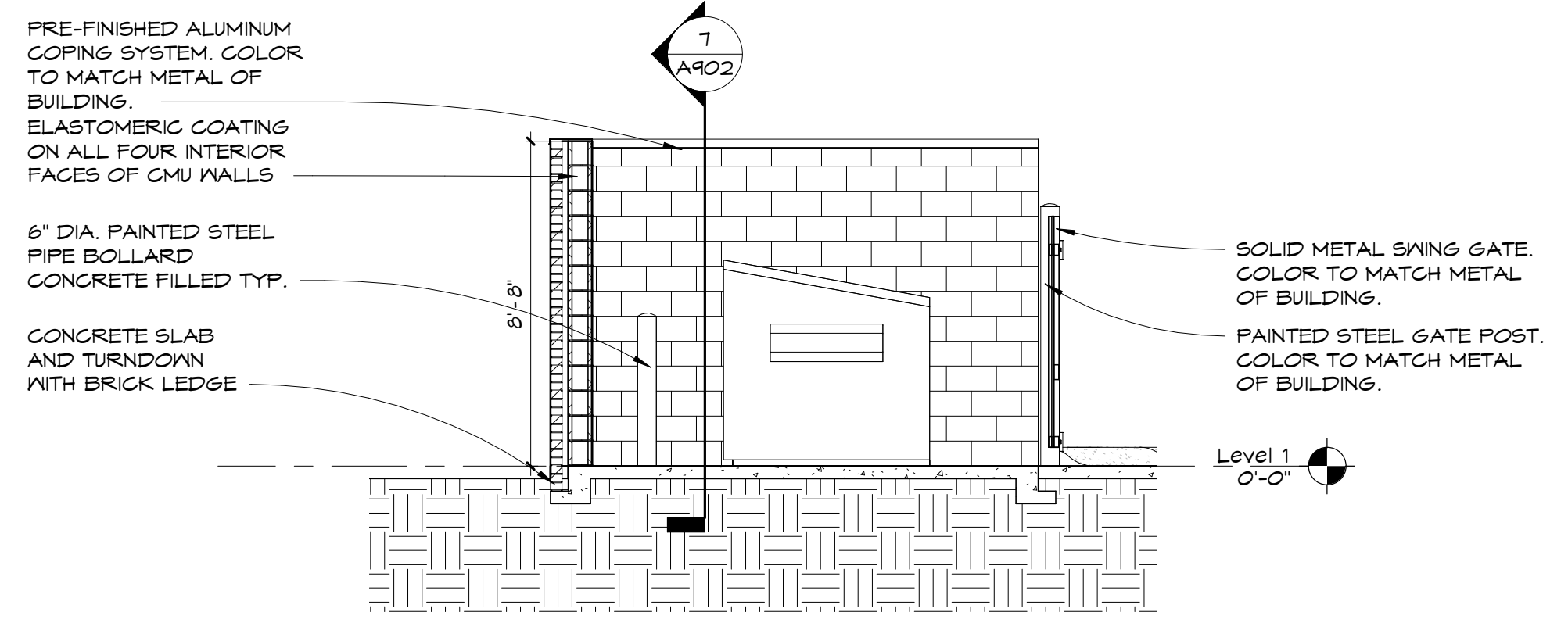
**3 DUMPSTER EAST ELEVATION**  
1/4" = 1'-0"



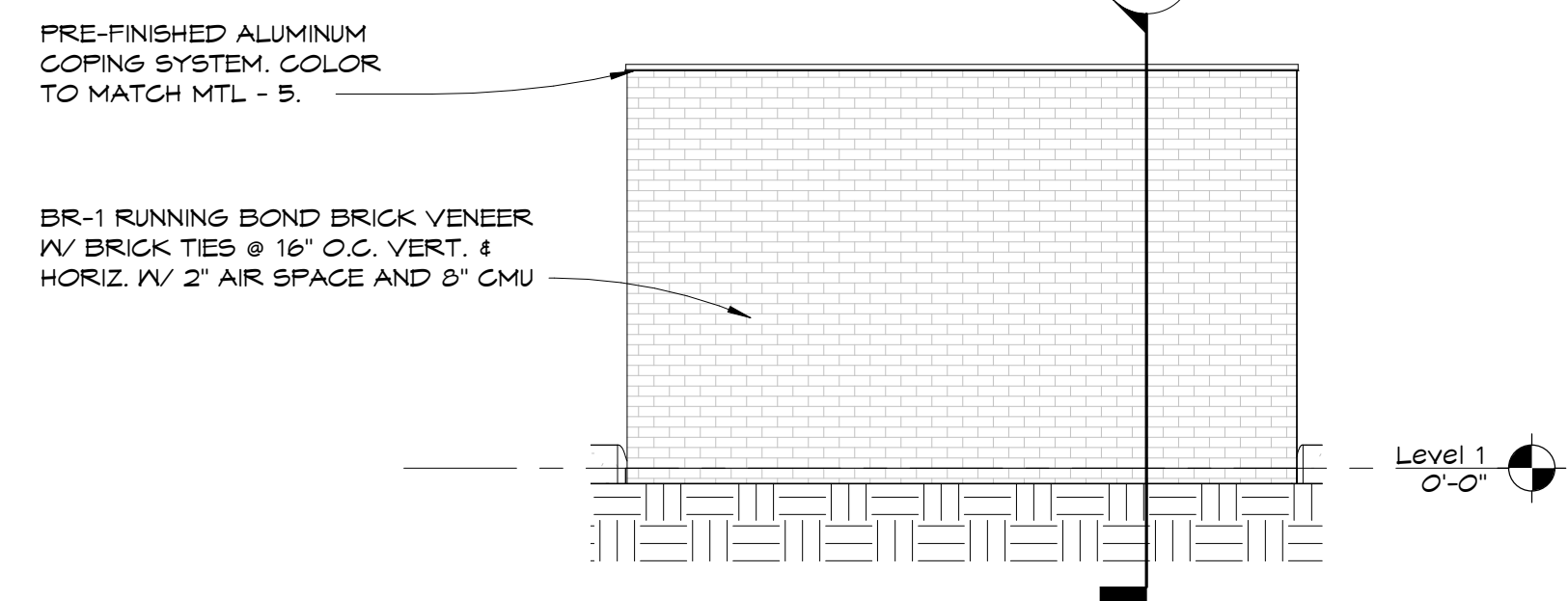
**2 DUMPSTER NORTH ELEVATION**  
1/4" = 1'-0"



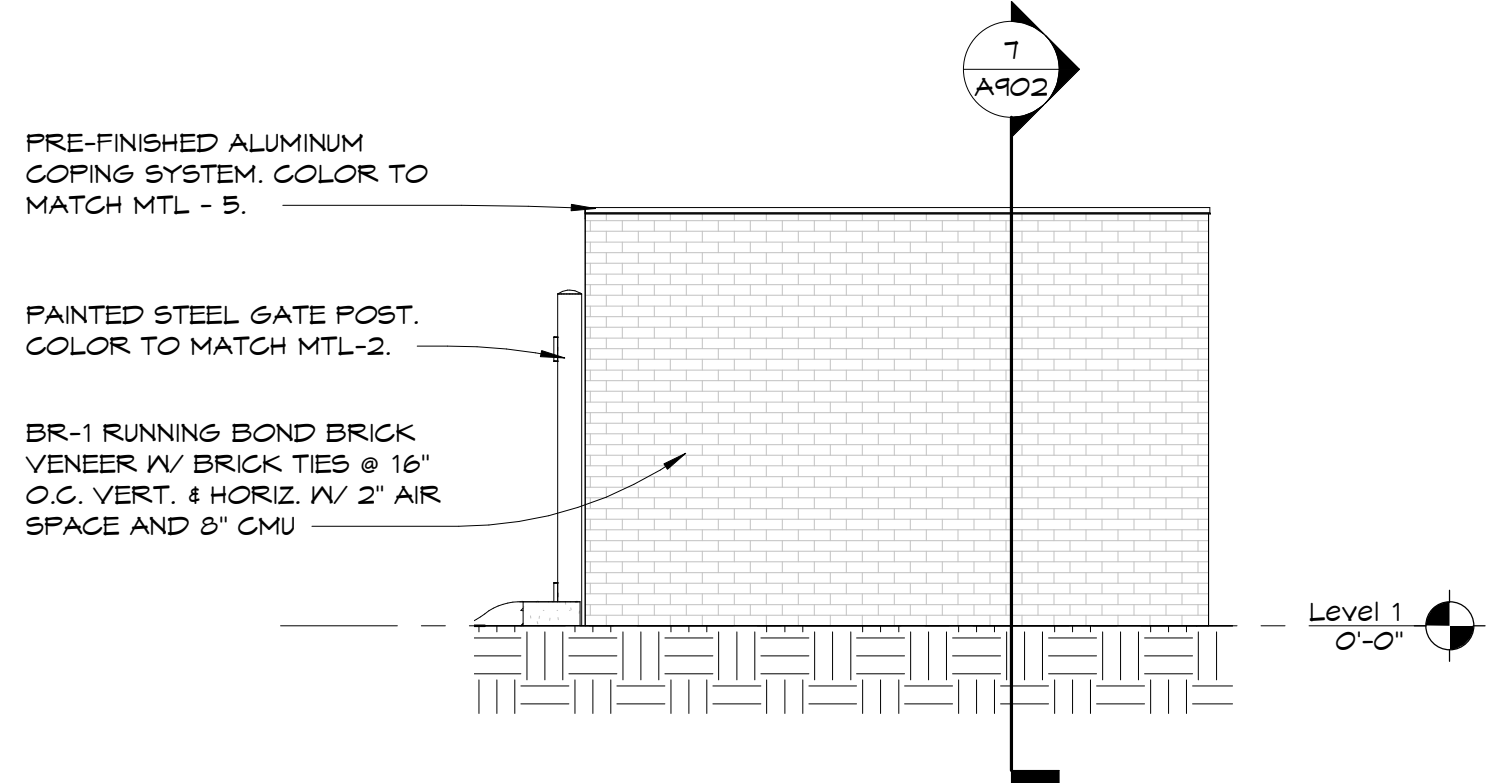
**1 DUMPSTER ENCLOSURE PLAN**  
1/4" = 1'-0"



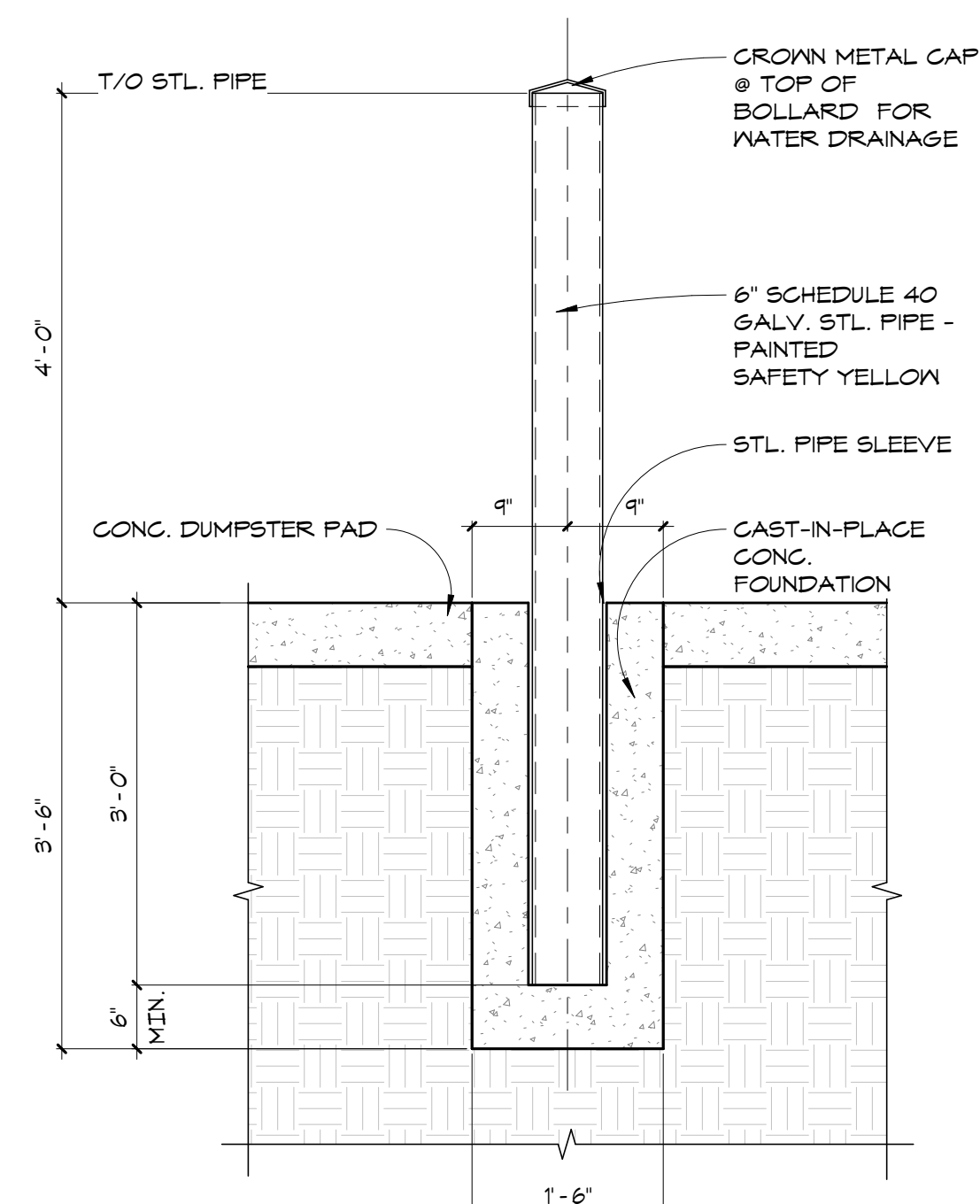
**6 SECTION 1 @ DUMPSTER**  
1/4" = 1'-0"



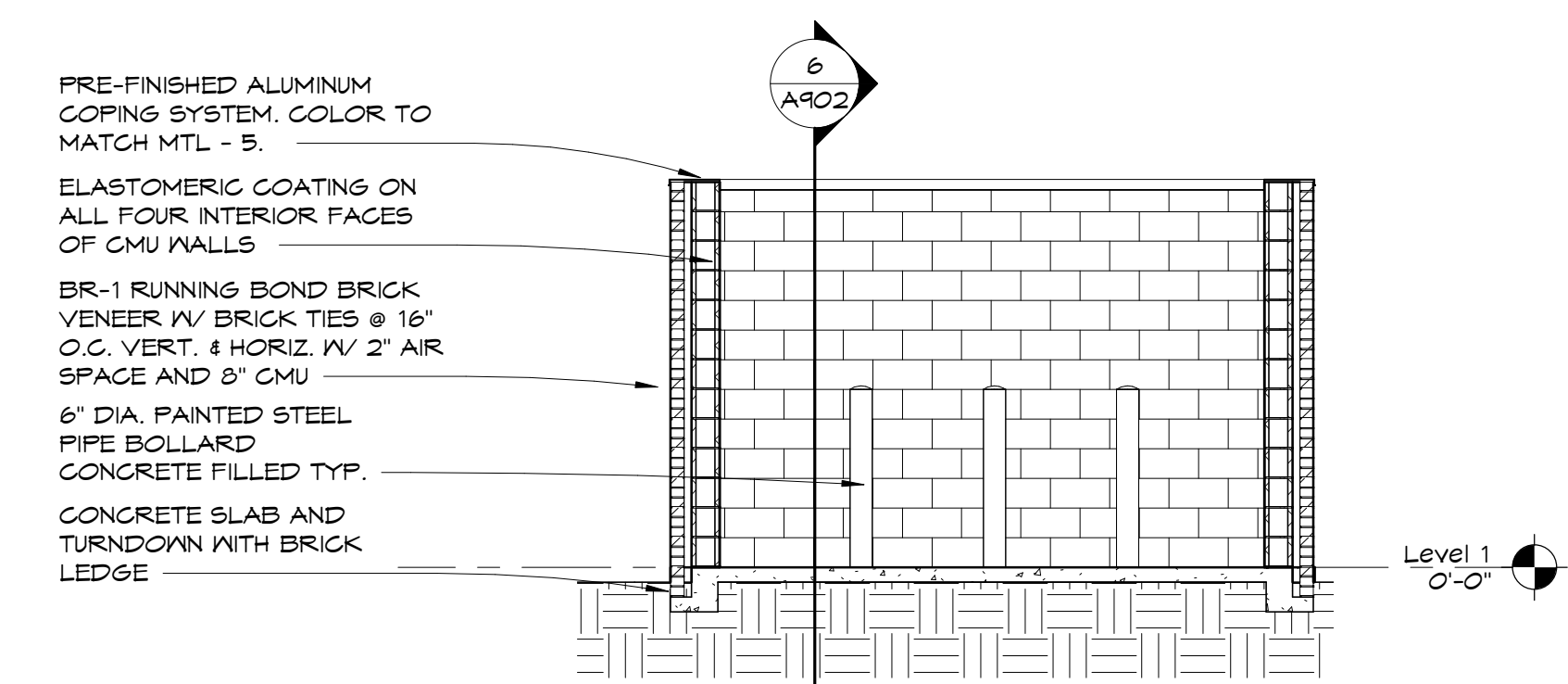
**5 DUMPSTER SOUTH ELEVATION**  
1/4" = 1'-0"



**4 DUMPSTER WEST ELEVATION**  
1/4" = 1'-0"



**8 TYP. BOLLARD DETAIL**  
3/4" = 1'-0"



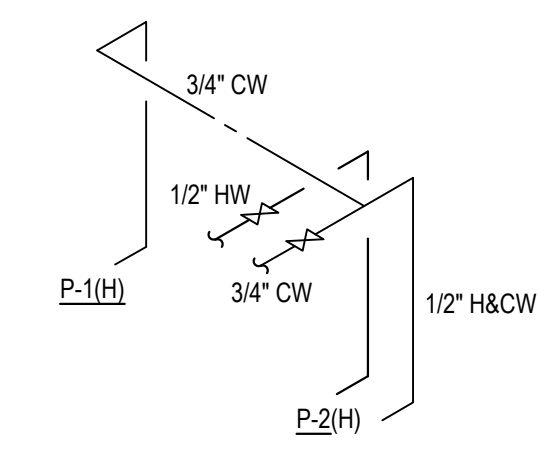
**7 SECTION 2 @ DUMPSTER**  
1/4" = 1'-0"

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LEGEND		
TAG	SYMBOL	DESCRIPTION
A/C		ABOVE CEILING
AFF		ABOVE FINISHED FLOOR
AHU		AIR HANDLING UNIT
B/F		BELOW FLOOR
B/G		BELOW GRADE
CO		CLEAN OUT
CW		DOMESTIC COLD WATER
		CHECK VALVE
		NEW WORK
EXIST.		EXISTING PIPE / EQUIPMENT
FCU		FAN COIL UNIT
FCO		FLOOR CLEAN OUT
FD		FLOOR DRAIN
FDC		FIRE DEPARTMENT CONNECTION
FS		FLOOR SINK
HB		HOSE BIBB
HD		HUB DRAIN
HW		DOMESTIC HOT WATER
HWR		HOT WATER RETURN
NFWH		NON FREEZE WALL HYDRANT
SAN		SANITARY PIPING
ST		STORM PIPING
V		VENT PIPING
VTR		VENT THROUGH ROOF
		BALL VALVE
WCO		WALL CLEAN OUT
W		WASTE PIPING
WSHP		WATER SOURCE HEAT PUMP
OV		OIL VENT PIPING
OW		OIL WASTE PIPING
OVTR		OIL VENT THROUGH ROOF

- GENERAL NOTES (APPLY TO ALL SHEETS):**
- DRAWINGS ARE SCHEMATIC IN NATURE. CONTRACTOR SHALL PROVIDE ALL MATERIALS, EQUIPMENT, TOOLS AND LABOR NECESSARY TO PROVIDE A COMPLETE PLUMBING SYSTEM COMPLIANT WITH ALL REQUIRED CODES & STANDARDS.
  - CONTRACTOR SHALL VISIT THE SITE TO THOROUGHLY EXAMINE EXISTING CONDITIONS PRIOR TO SUBMITTING BID. IF EXISTING CONDITIONS DIFFER FROM DESIGN DOCUMENTS IN SUCH A MANNER THAT AFFECTS PRICING, THE CONTRACTOR SHALL ADJUST THE BID ACCORDINGLY AND NOTIFY THE OWNER & ENGINEER PRIOR TO SUBMITTING THE BID. NO ALLOWANCES WILL BE MADE FOR LACK OF KNOWLEDGE REGARDING THE EXISTING CONDITIONS.
  - REFER TO ARCHITECTURAL DRAWINGS FOR EXACT FIXTURE MOUNTING HEIGHTS & LOCATIONS.
  - COORDINATE ALL SAN, VENT, CW, HW, ETC. WITH EXISTING CONDITIONS & ALL OTHER TRADES.
  - ALL SANITARY PIPING SHALL BE SLOPED AT 1/8" PER FOOT.
  - SANITARY & VENT PIPING SHALL BE HUBLESS CAST IRON ABOVE GRADE. SANITARY & VENT PIPING BELOW GRADE SHALL BE SCHEDULE 40 PVC.
  - DOMESTIC WATER & CONDENSATE PIPING SHALL BE TYPE L HARD COPPER WITH LEAD FREE SOLDERED JOINTS. CONDENSATE PIPING SHALL BE INSTALLED WITH DWV TYP FITTINGS.
  - ALL CONDENSATE, HOT & COLD WATER PIPING SHALL BE INSULATED WITH 1/2" THICK FIBERGLASS INSULATION WITH WHITE ALL SERVICE JACKET.
  - WATER HAMMER ARRESTORS SHALL BE PROVIDED & SIZED PER PDI GUIDELINES AT ALL QUICK CLOSING VALVES.
  - ALL PIPING SHALL BE PRESSURE TESTED PRIOR TO CONCEALING OR INSULATING THE PIPING.

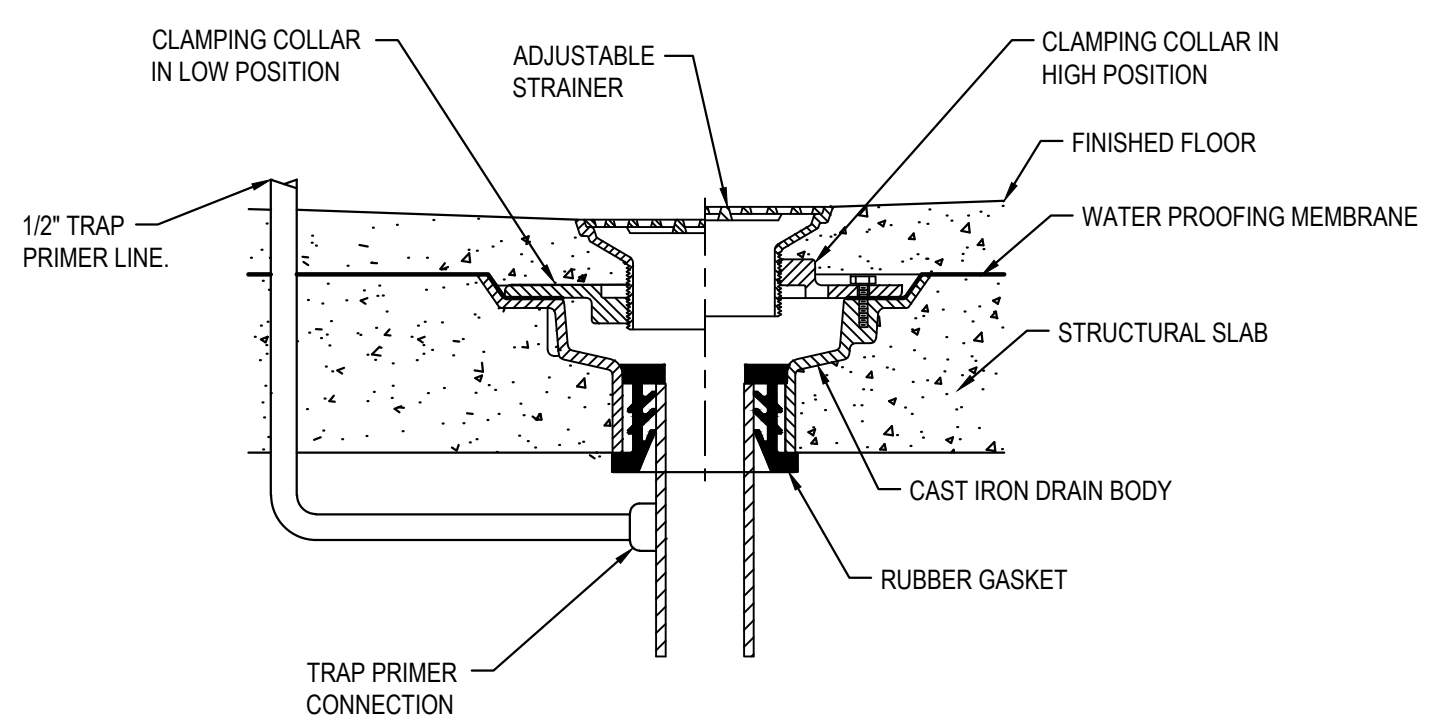


1 TYP. RESTROOM - DOMESTIC WATER RISER  
SCALE: N.T.S.

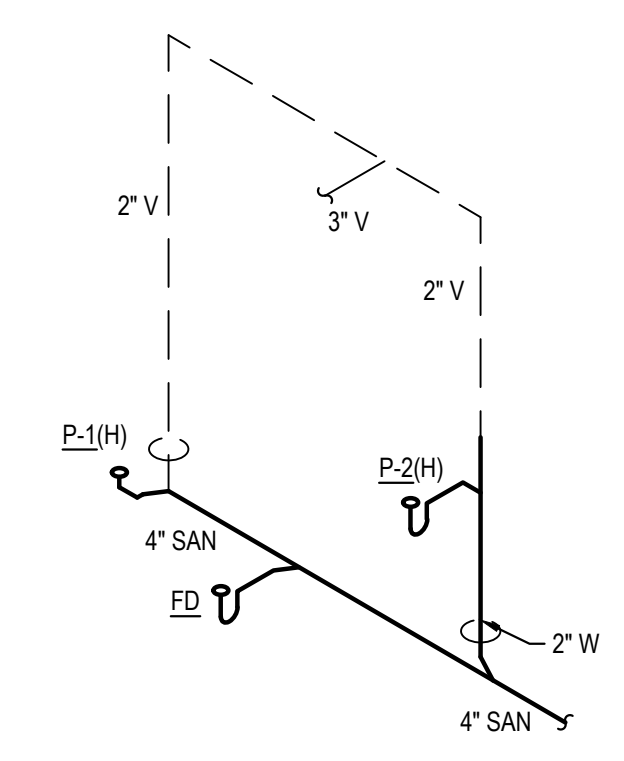
PLUMBING FIXTURES & CONNECTION SCHEDULE						
TAG	FIXTURE	CW	HW	WASTE	VENT	FIXTURE SPECIFICATION
P-1H	ADA WATER CLOSET	1/2"	-	4"	2"	ADA COMPLIANT, WHITE VITREOUS CHINA, FLOOR MOUNT, ELONGATED, 17" HIGH BOWL WITH 1.28 GPF FLUSH, FLUSH HANDLE ON OPEN SIDE OF FIXTURE AND SOLID PLASTIC ANTIMICROBIAL OPEN FRONT SEAT WITH SELF SUSTAINING CHECK HINGES. BASIS OF DESIGN: KOHLER K-3999 TOILET AND KOHLER K-4731-SC SEAT.
P-1	WATER CLOSET	1/2"	-	4"	2"	WHITE VITREOUS CHINA, FLOOR MOUNT, ELONGATED, 17" HIGH BOWL WITH 1.28 GPF FLUSH, FLUSH HANDLE ON OPEN SIDE OF FIXTURE AND SOLID PLASTIC ANTIMICROBIAL OPEN FRONT SEAT WITH SELF SUSTAINING CHECK HINGES. BASIS OF DESIGN: KOHLER K-3999 TOILET AND KOHLER K-4731-SC SEAT.
P-2H	LAVATORY - WALL HUNG	1/2"	1/2"	2"	1-1/2"	ADA COMPLIANT, WHITE VITREOUS CHINA, WALL MOUNTED LAVATORY WITH GRID STRAINER, TAIL PIECE, OFFSET P-TRAP, SERVICE STOPS, ADA INSULATION KIT, 0.5 GPM, SINGLE HANDLE, BRUSHED NICKEL FAUCET WITH RIGID 5-1/8" SPOUT. BASIS OF DESIGN: KOHLER K-2005 SINK AND MOEN 843205 FAUCET.
P-2	LAVATORY - DROP-IN	1/2"	1/2"	2"	1-1/2"	ADA COMPLIANT, WHITE VITREOUS CHINA, DROP-IN LAVATORY WITH GRID STRAINER, TAIL PIECE, OFFSET P-TRAP, SERVICE STOPS, ADA INSULATION KIT, 0.5 GPM, CHROME PLATED, SOLID BRASS, SINGLE HANDLE FAUCET WITH NICKLE STAINLESS FINISH. BASIS OF DESIGN: KOHLER K-2196 SINK AND MOEN 843205 FAUCET.
P-3	SHOWER	1/2"	1/2"	2"	2"	36" X 36" SHOWER PAN, PROVIDE 2.5 GPM, ANTI-SCALD, POLISHED CHROME BALANCED SHOWER VALVE AND HEAD SET. BASIS OF DESIGN: SPEAKMAN SM-3010.
P-4	KITCHEN SINK	1/2"	1/2"	2"	1-1/2"	UNDERMOUNT, 18 GA STAINLESS STEEL SINK WITH 28"X16"X6" DEEP BOWL DIMENSIONS, SOUND DAMPENING UNDER COATING, 1.5 GPM, SINGLE HANDLE, CHROME PLATED, SOLID BRASS GOOSNECK FAUCET WITH INTEGRAL 2 FUNCTION PULLDOWN SPRAYER, PROVIDE WITH DRAIN, GRID STRAINER, TAIL PIECE, OFFSET P-TRAP, SERVICE STOPS & ADA INSULATION KIT. BASIS OF DESIGN: ELKAY ELUHAD281645 SINK AND DELTA 9959-DST FAUCET.
P-5	SERVICE SINK	3/4"	3/4"	2"	1-1/2"	24" X 22" X 13" DEEP ENAMEL COATED CAST IRON WALL MOUNT SERVICE SINK WITH FLOOR MOUNT DRAIN ASSEMBLY, STOPPER AND CHROME BACK MOUNT SERVICE FAUCET. BASIS OF DESIGN: KOHLER K-6716 SINK, KOHLER K-6672 DRAIN AND KOHLER K-8905 FAUCET.
P-6	MOP SINK	3/4"	3/4"	3"	2"	28"X28" TERRAZO FLOOR MOUNTED CRESENT SHAPE MOP SINK WITH, 3" CAULKED DRAIN CONNECTION, STAINLESS STEEL GRID STRAINER, 36X36 STAINLESS STEEL WALL PANELS ON ALL ADJACENT WALLS, 36" LONG HOSE, MOP HANGER, HOSE HOOK SERVICE SINK FAUCET WITH BUCKET HOOK AND 3/4" HOSE CONNECTION. BASIS OF DESIGN: STERN WILLIAMS CRS-2210 SINK, STERN WILLIAMS T-10-VB FAUCET, T-35 HOSE & WALL HOOK AND T-40 MOP HANGER.
P-7	WASHER BOX	1/2"	1/2"	2"	2"	METAL WASHER BOX WITH SOLID BRASS, 1/4 TURN BALL VALVES. BASIS OF DESIGN IS OATEY 38981
NFWH	NON-FREEZE WALL HYDRANT	3/4"	-	-	-	ASSE 1019-B COMPLIANT, AUTOMATIC DRAINING, ANTI SIPHON, NON-FREEZE WALL HYDRANT WITH LOOSE KEY, RECESSED, CHROME PLATED BOX AND DOOR. BASIS OF DESIGN: WOODFORD B65.
FD-1	FLOOR DRAIN - MECHANICAL ROOM	1/2" TP	-	4"	2"	FLOOR DRAINS IN MECHANICAL ROOMS SHALL HAVE 11-3/4" ROUND CAST IRON GRATE, SEDIMENT BUCKET AND DEEP SEAL P-TRAP. BASIS OF DESIGN: JR SMITH 2131 SERIES. PROVIDE WITH TRAP PRIMER.
FD	FLOOR DRAIN - FINISHED AREAS	1/2" TP	-	2'3"	1-1/2"	FLOOR DRAINS IN FINISHED AREAS SHALL HAVE 6" SQUARE ADJUSTABLE, VANDAL PROOF STRAINER IN NICKLE BRONZE FINISH. BASIS OF DESIGN: JR SMITH 2000 SERIES. PROVIDE WITH TRAP PRIMER.

GAS WATER HEATER SCHEDULE							
TAG	CAPACITY (GAL)	INPUT MBH	EFFICIENCY	RECOVERY RATE (GPH @ 100F)	VOLTS/ PHASE	BASIS OF DESIGN	NOTES
IWH-1	-	199	93%	-	120/1	AO SMITH ATI - 540H-P	1,2
IWH-2	-	199	93%	-	120/1	AO SMITH ATI - 540H-P	1,2

- NOTES:  
 (1) PROVIDE WITH CONDENSATE NEUTRALIZATION KIT AND CONCENTRIC WALL TERMINATION KIT.  
 (2) PROVIDE WITH INTEGRAL HOT WATER RETURN PUMP.

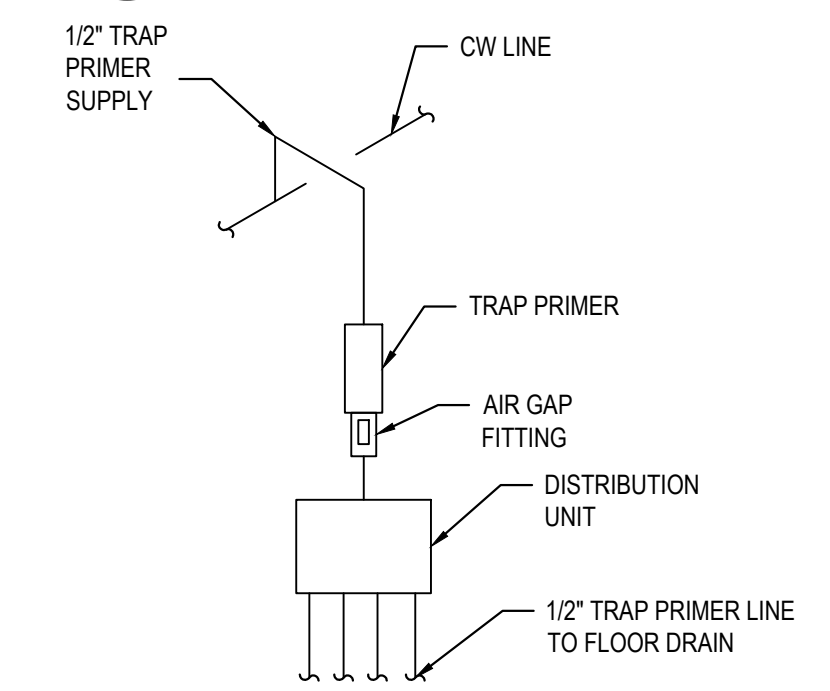
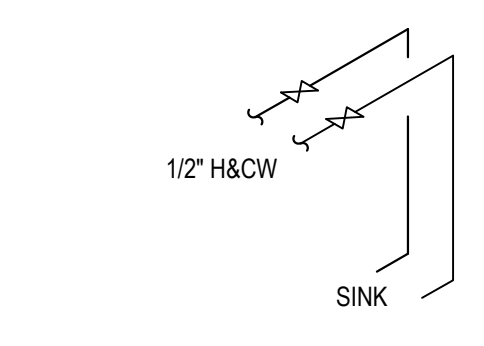


6 FLOOR DRAIN DETAIL  
SCALE: N.T.S.

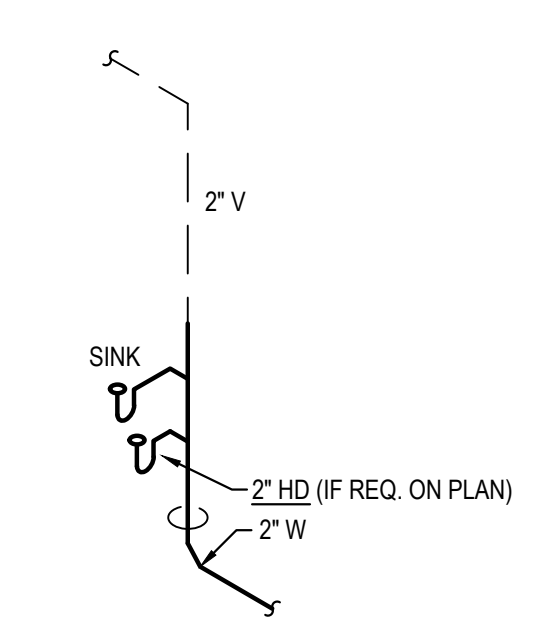


2 TYP. RESTROOM - SAN & VENT RISER  
SCALE: N.T.S.

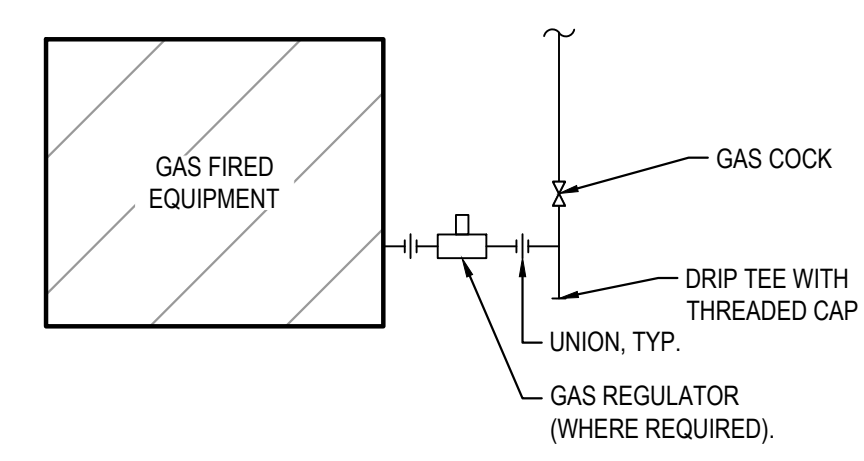
3 TYP. SINGLE SINK - DOMESTIC WATER RISER  
SCALE: N.T.S.



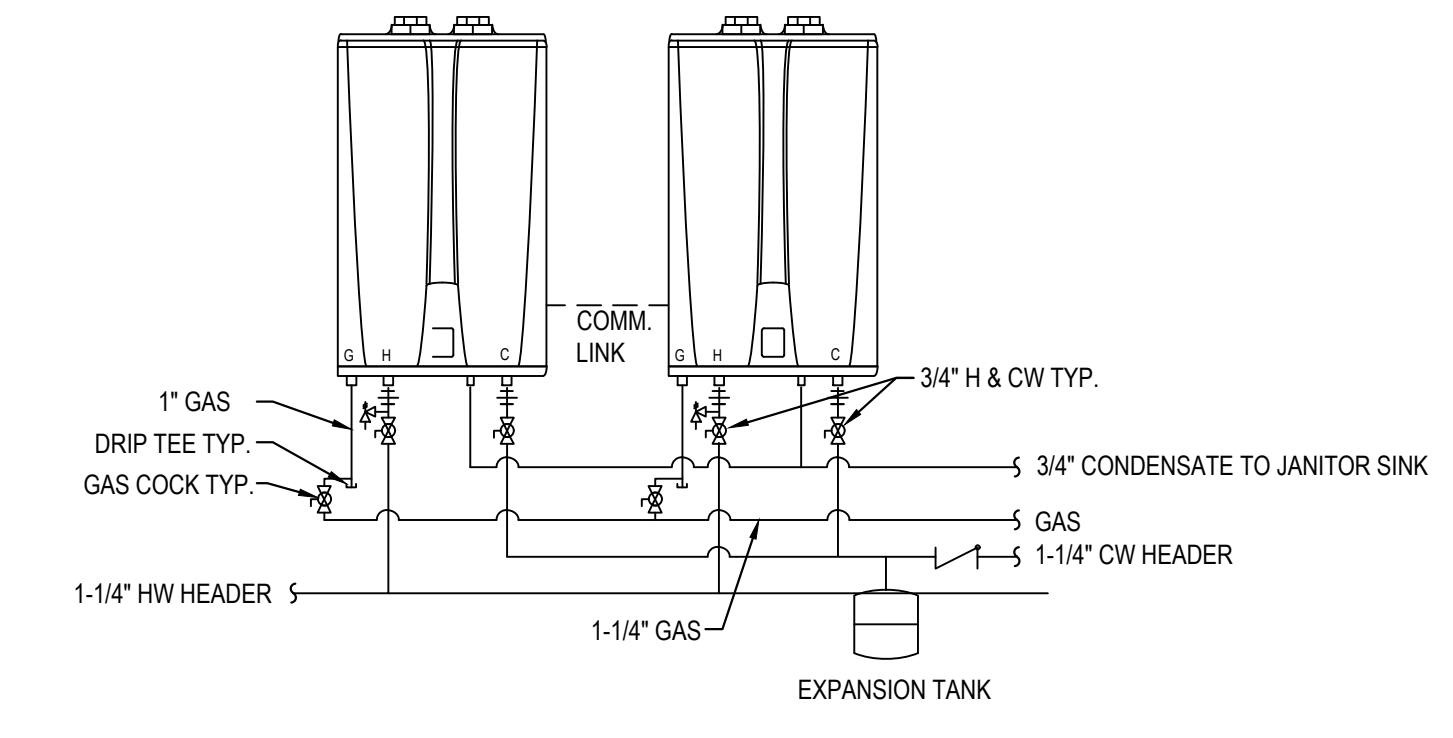
5 TRAP PRIMER DETAIL  
SCALE: N.T.S.



4 TYP. SINGLE SINK - SAN & VENT RISER  
SCALE: N.T.S.



8 GAS CONNECTION DETAIL  
SCALE: N.T.S.



7 TANKLESS WATER HEATER PIPING DIAGRAM  
SCALE: N.T.S.

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Davidson  
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REVISIONS

REGISTERED  
ENGINEER  
JAMES DANIEL HUBBART

NEW CONSTRUCTION  
ROCKDALE FIRE  
STATION 10  
ROCKDALE, GEORGIA

ROCKDALE  
FIRE  
STATION 10  
3130 GA Hwy, 138  
Conyers, GA 30013

ROCKDALE  
CO. FIRE  
DEPT.  
Fire Station No. 7  
1496 Rockbridge Road  
Conyers, GA 30012

TITLE PLUMBING LEGEND  
NOTES, DETAILS &  
SCHEDULES

STATUS Issue for Permit  
JOB 121038.00  
QC Checker  
DRAWN Author  
SHEET P-0.1  
DATE 06/22/22



SPECIFICATIONS

SECTION 220100 - PLUMBING GENERAL:

A. GENERAL

- CONTRACTOR SHALL PROVIDE ALL MATERIALS, EQUIPMENT, TOOLS AND LABOR NECESSARY TO PROVIDE A COMPLETE PLUMBING SYSTEM COMPLIANT WITH ALL REQUIRED CODES & STANDARDS.
- DRAWINGS ARE SCHEMATIC IN NATURE AND SHALL NOT BE SCALED.
- ALL REQUIRED PERMITS & INSPECTIONS SHALL BE SECURED & PAID FOR UNDER THIS CONTRACT. INSPECTION CERTIFICATIONS SHALL BE PROVIDED TO THE OWNER.
- CONTRACTOR SHALL VISIT THE SITE TO THOROUGHLY EXAMINE EXISTING CONDITIONS PRIOR TO SUBMITTING BID. IF EXISTING CONDITIONS DIFFER FROM DESIGN DOCUMENTS IN SUCH A MANNER THAT AFFECTS PRICING, THE CONTRACTOR SHALL ADJUST THE BID ACCORDINGLY AND NOTIFY THE OWNER & ENGINEER PRIOR TO SUBMITTING THE BID. NO ALLOWANCES WILL BE MADE FOR LACK OF KNOWLEDGE REGARDING THE EXISTING CONDITIONS.

C. IDENTIFICATION

- PERMANENT BAKELITE TAGS WITH 1" TALL LETTERS SHALL BE PROVIDED FOR ALL EQUIPMENT. EQUIPMENT NUMBERING SHALL MATCH BUILDING STANDARDS.

D. STARTERS

- ALL MOTORS SHALL BE PROVIDED WITH MAGNETIC MOTOR STARTERS WITH OVERLOAD PROTECTION.
- STARTERS SHALL BE PROVIDED WITH HAND-OFF-AUTO SWITCHES.
- INDOOR MOTOR STARTERS SHALL BE FURNISHED WITHIN A NEMA 1 ENCLOSURE.
- OUTDOOR MOTOR STARTERS SHALL BE FURNISHED WITHIN A NEMA 3R ENCLOSURE.

E. SUBMITTALS & SHOP DRAWINGS

- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS & PRODUCT DATA FOR ALL PLUMBING EQUIPMENT & SYSTEMS TO BE PROVIDED AND/OR INSTALLED.

F. SUBSTITUTE MANUFACTURERS

- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION & COST OF ALL CHANGES REQUIRED FOR INSTALLATION OF EQUIPMENT & PRODUCTS MANUFACTURED BY THOSE OTHER THAN WHAT IS SPECIFIED IN THE CONTRACT DOCUMENTS.
- CAREFULLY COORDINATE SUBSTITUTE MANUFACTURER'S INSTALLATION REQUIREMENTS WITH ALL OTHER TRADES INCLUDING BUT NOT LIMITED TO STRUCTURE, ELECTRICAL, PLUMBING AND ARCHITECTURAL. ALL INSTALLATION COSTS ASSOCIATED WITH INSTALLATION OF SUBSTITUTE MANUFACTURER SHALL BE INCLUDED IN BID. NO ALLOWANCES SHALL BE GIVEN FOR CHANGES ASSOCIATED WITH INSTALLATION OF SUBSTITUTE EQUIPMENT & SYSTEMS.
- LISTING OF A MANUFACTURER AS AN "EQUAL" DOES NOT RELIEVE CONTRACTOR'S RESPONSIBILITY OF COORDINATION & COST ASSOCIATED WITH CHANGES REQUIRED TO OTHER TRADES.

G. WARRANTY

- CONTRACTOR SHALL WARRANT ALL EQUIPMENT, MATERIALS AND WORKMANSHIP FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR.
- ALL HVAC COMPRESSORS SHALL BE WARRANTED FOR A PERIOD OF NOT LESS THAN 5 YEARS.

H. AS-BUILT DRAWINGS

- CONTRACTOR SHALL KEEP REDLINE SET OF DRAWINGS ON SITE DURING CONSTRUCTION TO UPDATE LOCATION OF ALL EQUIPMENT AND SYSTEMS AS THE CONSTRUCTION PROGRESSES. REDLINE SET OF DRAWINGS SHALL BE TURNED OVER TO OWNER AT COMPLETION OF CONSTRUCTION.

I. OPERATION & MAINTENANCE MANUALS

- CONTRACTOR SHALL PROVIDE AN ELECTRONIC SET AND ONE (1) SET OF HARD COPIES OF INSTALLATION AND MAINTENANCE MANUALS FOR ALL EQUIPMENT & SYSTEMS PROVIDED UNDER THIS CONTRACT.

J. INSTRUCTION

- CONTRACTOR SHALL THOROUGHLY INSTRUCT OWNER ON OPERATION AND RECOMMENDED MAINTENANCE PROCEDURES OF ALL INSTALLED EQUIPMENT & SYSTEMS.

SECTION 24000 PLUMBING SYSTEMS

- ALL 3" AND LARGER SANITARY PIPING SHALL BE SLOPED AT 1/8" PER FOOT. ALL 2 1/2" AND SMALLER SANITARY PIPING SHALL BE SLOPE AT 1/4" PER FOOT.
- SANITARY & VENT PIPING SHALL BE SCHEDULE 40 PVC WITH SOLVENT WELDED JOINTS BELOW GRADE.
- ABOVE GRADE SANITARY AND VENT PIPING SHALL BE HUBLESS CAST IRON.
- DOMESTIC WATER & CONDENSATE PIPING SHALL BE TYPE L HARD COPPER WITH LEAD FREE SOLDERED JOINTS. CONDENSATE PIPING SHALL BE INSTALLED WITH DWV TYP FITTINGS.
- ALL CONDENSATE, HOT & COLD WATER PIPING SHALL BE INSULATED WITH 1/2" THICK FIBERGLASS INSULATION WITH WHITE ALL SERVICE JACKET.
- WATER HAMMER ARRESTORS SHALL BE PROVIDED & SIZED PER PDI GUIDELINES AT ALL QUICK CLOSING VALVES.
- ALL PIPING SHALL BE PRESSURE TESTED PRIOR TO CONCEALING OR INSULATING THE PIPING.
- ALL PIPING SHALL BE CONCEALED WITHIN WALLS OR ABOVE CEILING.
- PIPING INSTALLED ABOVE CEILING SHALL BE INSTALLED AS HIGH AS POSSIBLE.
- ALL VALVES LOCATED ABOVE CEILING SHALL BE LOCATED WITHIN 1' OF ACCESS PANEL OR 1' ACCESSIBLE CEILING.
- REFER TO ARCHITECTURAL FLOOR PLANS & ELEVATIONS FOR EXACT LOCATIONS OF PLUMBING FIXTURES.
- PLUMBING SYSTEMS SHALL NOT BE INSTALLED WITHIN OR PASSING THROUGH, ELECTRICAL CLOSETS, SWITCHGEAR ROOMS, TELEPHONE ROOMS, ELEVATOR EQUIPMENT ROOMS OR ABOVE ELECTRICAL PANELS.
- INSTALL IDENTIFICATION MARKERS ON ALL PIPING SYSTEMS & VALVES THAT INCLUDE SERVICE TYPE & DIRECTION OF FLOW PER ASME A13.1.
- ALL DOMESTIC WATER PIPING SYSTEMS SHALL BE FLUSHED & DISINFECTED. SYSTEMS SHALL BE FILLED WITH AN EVENLY DISTRIBUTED DOSE OF 50 TO 200 PPM CHLORINE. ALL FIXTURES & OUTLETS SHALL BE TESTED TO ENSURE EVEN DISTRIBUTION. AFTER 12 HOURS THE RESIDUAL CHLORINE SHALL BE TESTED. DISINFECTION PROCEDURE SHALL BE REPEATED UNTIL RESIDUAL CHLORINE LEVEL IS GREATER THAN 10 PPM AFTER SITTING UNDISTURBED FOR 12 HOURS. ONCE DISINFECTION PROCEDURE IS COMPLETE, SYSTEM SHALL BE THOROUGHLY FLUSHED WITH CLEAN WATER.
- GAS PIPING SHALL BE SCHEDULE 40 STEEL WITH MALLEABLE IRON FITTINGS AND THREADED JOINTS ABOVE GRADE. THREADS SHALL BE COATED WITH RECTOR SEAL PRIOR TO ASSEMBLING EACH JOINT. BELOW GRADE PIPING SHALL BE POLYETHYLENE PIPING WITH NO JOINTS BELOW GRADE. PROVIDE GAS COCK, DRIP LEG AND UNION AT EACH EQUIPMENT CONNECTION. FOR SYSTEMS WITH DELIVERY PRESSURE ABOVE 14" W.C. A REGULATOR SHALL BE PROVIDED AND SIZED FOR EACH PIECE OF EQUIPMENT. ENTIRE GAS PIPING SYSTEM SHALL BE PRESSURE TESTED TO 30 PSI FOR A MINIMUM OF 8 HOURS WITHOUT A LOSS IN PRESSURE. GAS SERVICE SHALL NOT BE CONNECTED UNTIL PRESSURE TEST HAS BEEN COMPLETED AND PASSED.

SECTION 21525 FIRE PROTECTION SYSTEMS

- FIRE PROTECTION SYSTEM SHALL BE DESIGNED BY A LICENSED FIRE PROTECTION CONTRACTOR.
- FIRE PROTECTION SYSTEM SHALL CONFORM TO NFPA 13 AND ALL LOCAL CODE REQUIREMENTS.
- FIRE PROTECTION SYSTEM DESIGN SHALL BE SUBJECT TO THE APPROVAL OF THE FIRE MARSHAL AND THE OWNER'S UNDERWRITER.
- DOUBLE CHECK BACKFLOW PREVENTER SHALL BE WATTS 709 OR EQUAL.
- PIPING 2" AND LARGER SHALL BE SCHEDULE 10 WITH ROLL GROOVED VICTAULIC JOINTS.
- PIPING SMALLER THAN 2" SHALL BE SCHEDULE 40 STEEL WITH THREADED JOINTS AND MALLEABLE IRON FITTINGS.
- THE USE OF LIGHTWALL PIPING SUCH AS ALLIED XL / BLT, IS NOT ACCEPTABLE.
- SPRINKLER HEADS LOCATED IN LAY-IN CEILINGS SHALL BE SEMI-RECESSED CHROME PLATED.
- SPRINKLER HEADS LOCATED IN HARD CEILINGS SHALL BE FULLY RECESSED WITH COVER MATCHING THE COLOR OF THE CEILING.
- AREAS WITH NO CEILINGS SHALL HAVE UPRIGHT, BRASS HEADS.
- FIRE PROTECTION SYSTEM SHALL BE TESTED PRIOR TO OWNER ACCEPTANCE.



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REVISIONS



NEW CONSTRUCTION  
ROCKDALE FIRE  
STATION 10  
ROCKDALE, GEORGIA

ROCKDALE  
FIRE  
STATION 10  
3130 GA Hwy, 138  
Conyers, GA 30013

ROCKDALE  
CO. FIRE  
DEPT.  
Fire Station No. 7  
1496 Rockbridge Road  
Conyers, GA 30012

TITLE SPECIFICATIONS -  
PLUMBING

STATUS Issue for Permit

JOB 121038.00

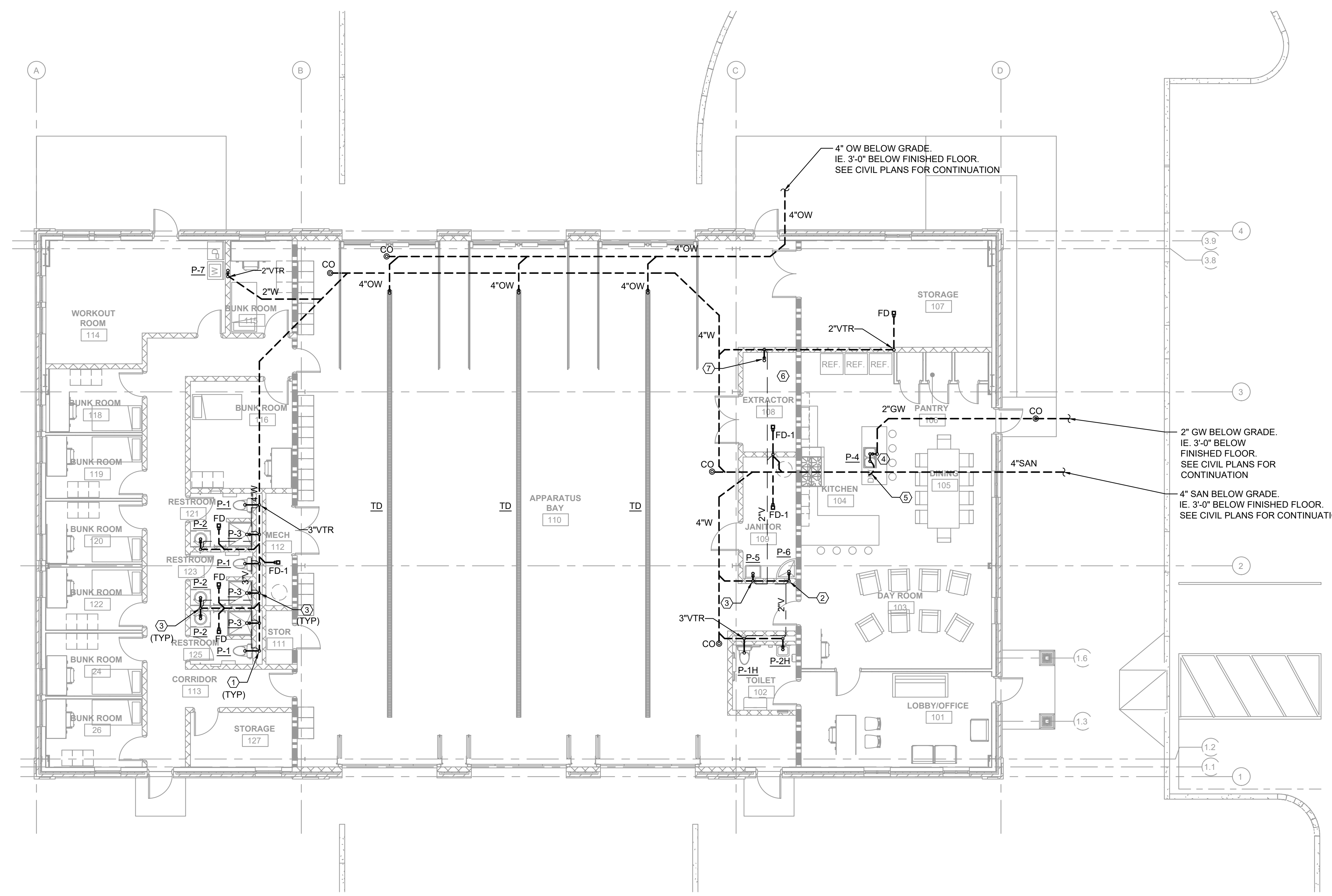
QC Checker

DRAWN Author

SHEET P-0.2

DATE 06/22/22

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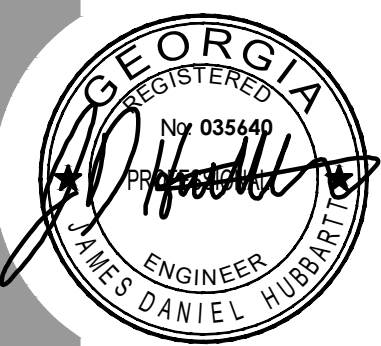
1 FLOOR PLAN - PLUMBING (SAN & VENT)  
1/8" = 1'-0"

KEY NOTES: ○

- 4"W & 2"V.
- 3" W & 2"V.
- 2" W & V.
- INSTALL AIR ADMITTANCE VALVE ON WASTE RISER TO SINK FOR VENT CONNECTION. BASIS OF DESIGN IS STUDOR TEC-VENT OR EQUAL.
- CONNECT DRAIN LINE FROM DISHWASHER TO SINK TRAP WITH AIR GAP FITTING.
- ROUTE DRAIN FROM WASHER EXTRACTOR TO TROUGH DRAIN.
- POURED IN PLACE TROUGH DRAIN FOR WASHER WITH LINT SCREEN. FIELD COORDINATE EXACT LOCATION.

REVISIONS

NO.	DESCRIPTION



NEW CONSTRUCTION  
ROCKDALE FIRE  
STATION 10  
ROCKDALE, GEORGIA

ROCKDALE  
FIRE  
STATION 10  
3130 GA Hwy, 138  
Conyers, GA 30013

ROCKDALE  
CO. FIRE  
DEPT.  
Fire Station No. 7  
1496 Rockbridge Road  
Conyers, GA 30012

TITLE FLOOR PLAN PLUMBING  
SAN & VENT

STATUS Issue for Permit

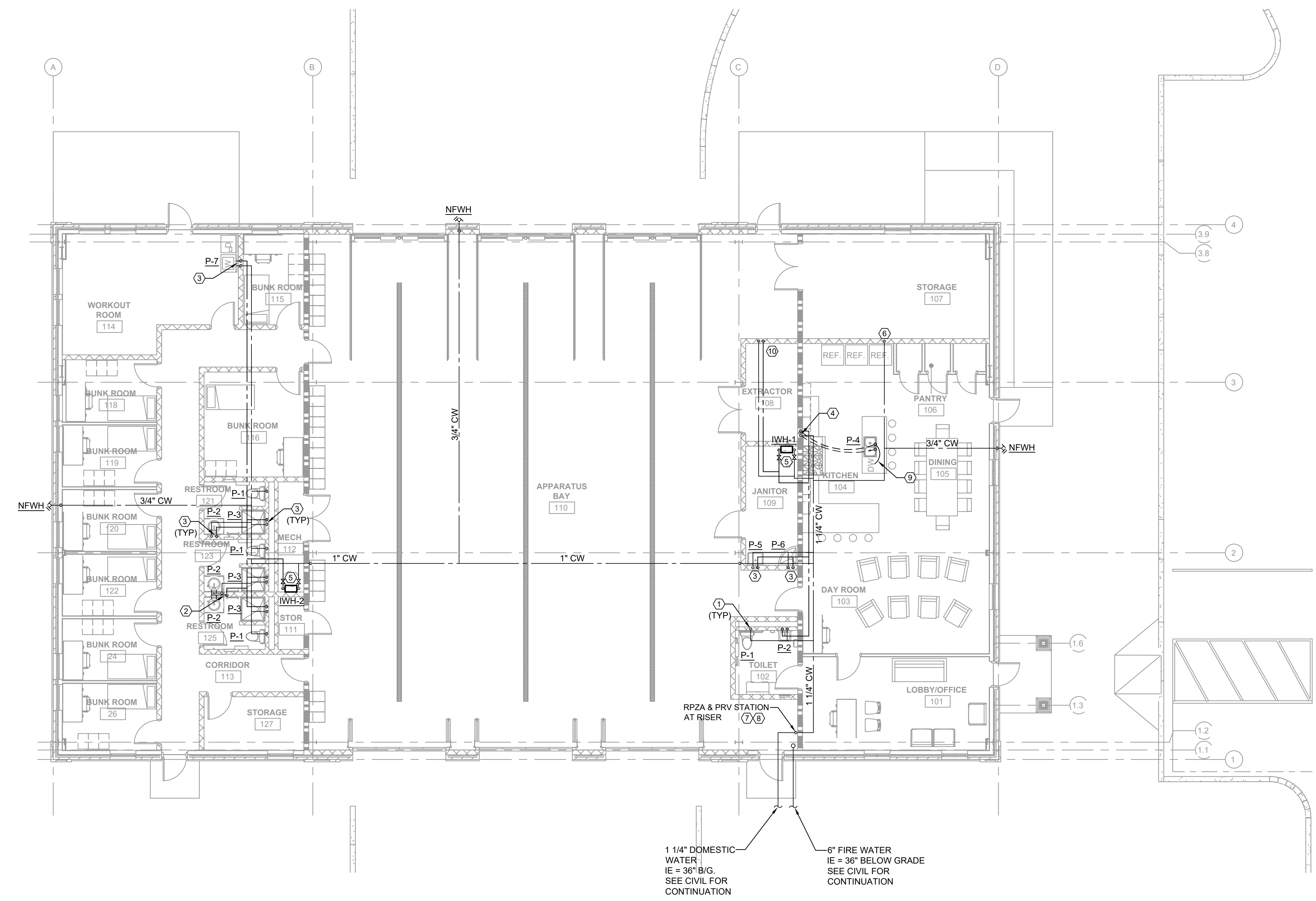
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DRAWN Author

SHEET P-1.1

DATE 06/22/22





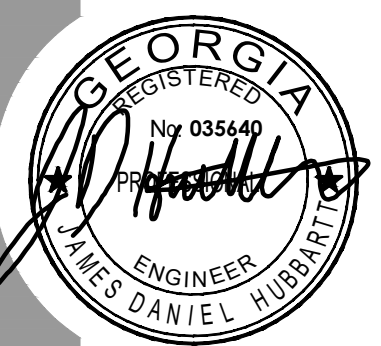
1 FLOOR PLAN - PLUMBING (WATER)  
1/8" = 1'-0"

KEY NOTES: ○

- 1/2" CW DN.
- 3/4" CW & HW DN.
- 1/2" CW & HW DN.
- 1/2" CW & HW DN BELOW FLOOR.
- 1" HW & CW DN TO IWH-1 & IWH-2.
- 1/2" CW DN IN WALL TO ICE MAKER BOX FOR REFRIGERATOR. COORDINATE EXACT LOCATION WITH EQUIPMENT LAYOUT TO ENSURE ICE MAKER BOX IS NOT VISIBLE. PROVIDE FINAL CONNECTION TO EQUIPMENT. ICEMAKER BOX BASIS OF DESIGN: OATEY 38608.
- BACKFLOW PREVENTER SHALL BE LEAD FREE, REDUCED PRESSURE ZONE ASSEMBLY (RPZA), WATTS LF909 OR EQUAL.
- INSTALL PRV STATION ON RISER ABOVE BACKFLOW PREVENTER. REFER TO DETAIL 5/P0.1.
- PROVIDE 1/2" VALVED HW CONNECTION TO DISHWASHER FROM BREAKROOM SINK HW LINE.
- 3/4" CW & HW DN TO WASHER EXTRACTOR WITH 3/4" HOSE BIB CONNECTIONS STUBBED OUT OF WALL. PROVIDE WITH RED AND BLUE COLOR CODED HANDLES TO INDICATE HOT & COLD.

REVISIONS

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CO. FIRE  
DEPT.  
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Conyers, GA 30012

TITLE FLOOR PLAN PLUMBING  
WATER

STATUS Issue for Permit

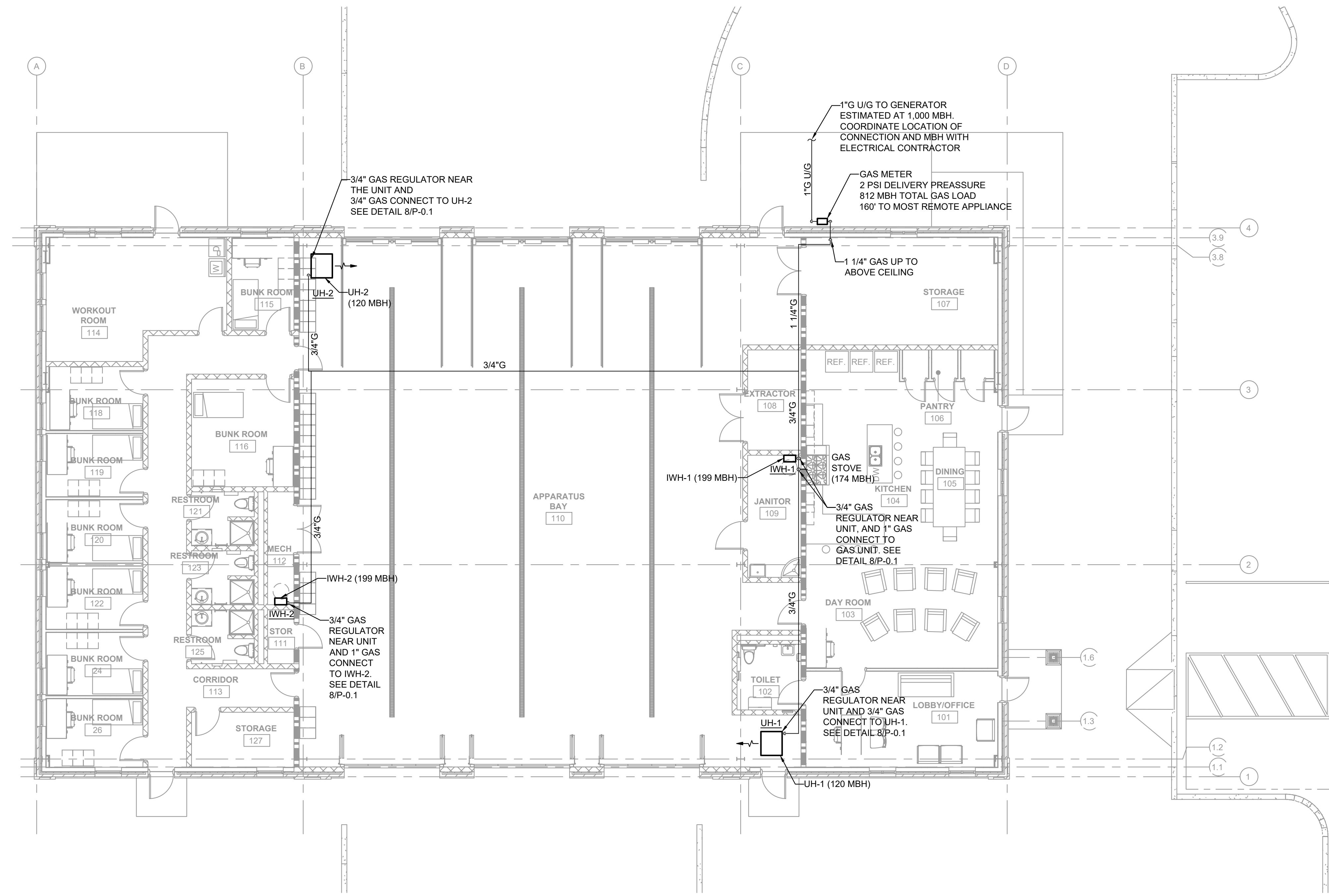
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SHEET P-2.1

DATE 06/22/22



1 FLOOR PLAN - PLUMBING (GAS)  
1/8" = 1'-0"

REVISIONS



NEW CONSTRUCTION  
ROCKDALE FIRE  
STATION 10  
ROCKDALE, GEORGIA

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TITLE FLOOR PLAN PLUMBING  
GAS

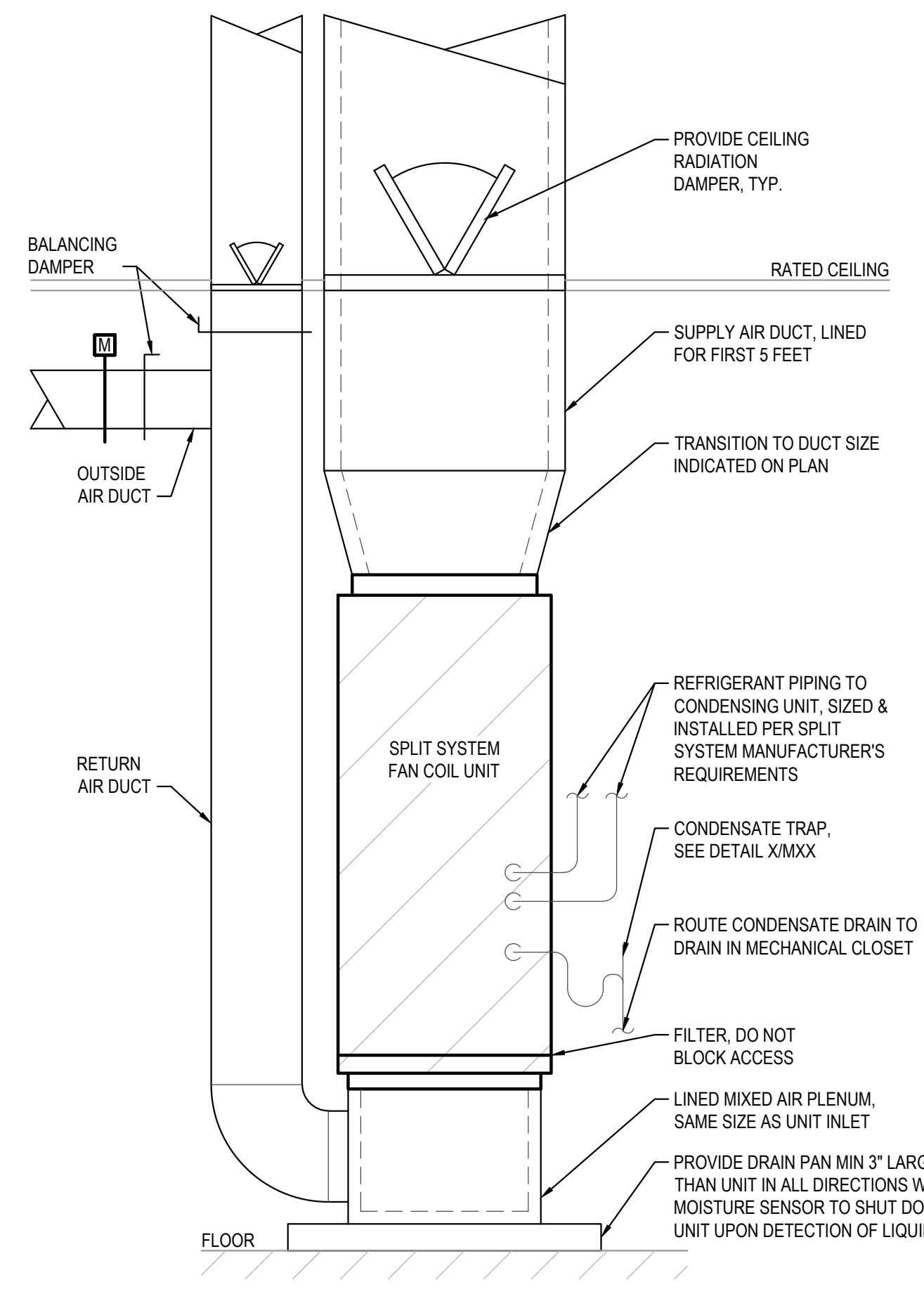
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DATE 06/22/22



LEGEND		
TAG	SYMBOL	DESCRIPTION
AC		ABOVE CEILING
AHU		AIR HANDLER
BDD		BACKDRAFT DAMPER
BIF		BELOW FLOOR
CD	☒	CEILING DIFFUSER
CWS&R		CONDENSER WATER SUPPLY & RETURN
CFM		CUBIC FOOT PER MIN.
DB		DRY BULB
	—	NEW DUCT WORK
EXIST.	---	EXISTING DUCT / PIPE
EAT		ENTERING AIR TEMPERATURE
EWT		ENTERING WATER TEMPERATURE
EF		EXHAUST FAN
ER	☒	EXHAUST REGISTER
ESP		EXTERNAL STATIC PRESSURE
FD	→	FIRE DAMPER
F/SD	→	COMBINATION FIRE & SMOKE DAMPER
	→	VERTICAL FIRE DAMPER
	→	VERTICAL COMBINATION FIRE & SMOKE DAMPER
HP		HORSEPOWER
LAT		LEAVING AIR TEMPERATURE
LWT		LEAVING WATER TEMPERATURE
MD		MANUAL DAMPER
	☒	MOTOR OPERATED DAMPER
OA		OUTSIDE AIR
RA		RETURN AIR
RAG	☒	RETURN AIR GRILLE
SA		SUPPLY AIR
SR		SUPPLY REGISTER
	⊖	THERMOSTAT
	⊗	BALL VALVE
WSHP		WATER SOURCE HEAT PUMP

GENERAL NOTES:

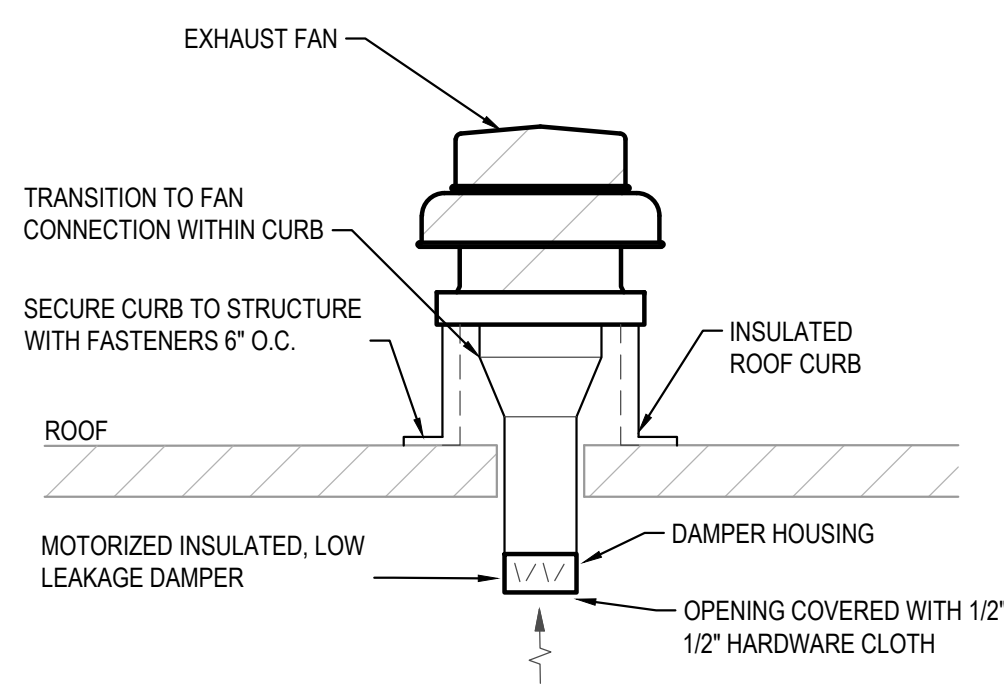
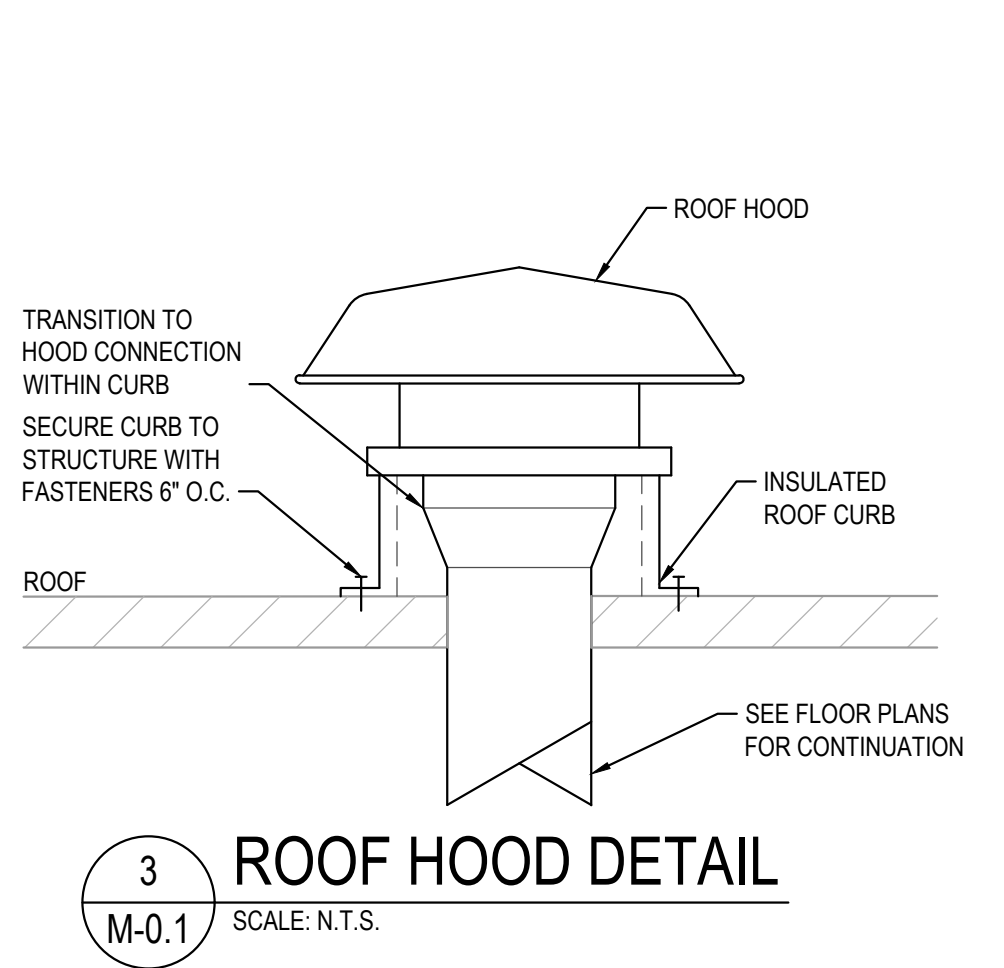
- DRAWINGS ARE SCHEMATIC IN NATURE. CONTRACTOR SHALL PROVIDE ALL MATERIALS, EQUIPMENT, TOOLS AND LABOR NECESSARY TO PROVIDE A COMPLETE MECHANICAL SYSTEM COMPLIANT WITH ALL REQUIRED CODES & STANDARDS.
- CONTRACTOR SHALL VISIT THE SITE TO THOROUGHLY EXAMINE EXISTING CONDITIONS PRIOR TO SUBMITTING BID. IF EXISTING CONDITIONS DIFFER FROM DESIGN DOCUMENTS IN SUCH A MANNER THAT AFFECTS PRICING, THE CONTRACTOR SHALL ADJUST THE BID ACCORDINGLY AND NOTIFY THE OWNER & ENGINEER PRIOR TO SUBMITTING THE BID. NO ALLOWANCES WILL BE MADE FOR LACK OF KNOWLEDGE REGARDING THE EXISTING CONDITIONS.
- ALL LOW VOLTAGE CONTROL WIRING SHALL BE INSTALLED AND WIRED TO EQUIPMENT AS A PART OF THIS CONTRACT.



GAS HEATER SCHEDULE						
TAG	AIRFLOW (CFM)	FAN HP	HEATING CAPACITY (MBH)	STAGES	TYPE	BASIS OF DESIGN
UH-1,2	2140	1/6	120	1	FORCED AIR UNIT HEATER	MODINE PTS150 1,2,3,4,5

- NOTES:
- PROVIDE WITH PROGRAMMABLE, HEAT ONLY THERMOSTAT.
  - MOUNT UNIT HEATER AT 10'-0" AFF.
  - PROVIDE CLEAR PLASTIC LOCKABLE ROOM THERMOSTAT GUARD.
  - PROVIDE MANUFACTURER'S VERTICAL CONCENTRIC VENT KIT.
  - FOLLOW MANUFACTURER'S FIGURE 10.1 FOR VERTICAL CONCENTRIC KITS. EXHAUST PIPE SHALL BE TYPE B VENT PIPE.

AIR DISTRIBUTION SCHEDULE		
TAG	DESCRIPTION	BASIS OF DESIGN
CD	CEILING SUPPLY DIFFUSERS (CD) SHALL BE ALUMINUM, STAMPED LOUVERED DIFFUSER WITH 3 ADJUSTABLE CONES. FACE AREA SHALL BE SUITABLE FOR 24"X24" LAY-IN CEILING GRID. PROVIDE WITH BAKED ENAMEL FINISH IN A COLOR MATCHING THE CEILING GRID.	TITUS TMS-AA
EG	EXHAUST GRILLE (EG) SHALL MATCH RAG	TITUS 8F
SR	SUPPLY REGISTERS (SR) SHALL BE STEEL, DOUBLE DEFLECTION TYPE PROVIDED WITH OPPOSED BLADE DAMPER AND OUTER MOST SET OF DEFLECTORS PARALLEL TO THE SHORT DIMENSION. PROVIDE WITH OPPOSED BLADE BALANCING DAMPER AND FACTORY APPLIED, WHITE, BAKED ENAMEL FINISH.	TITUS 300RS
RAG	CEILING RETURN GRILLES (RAG) SHALL BE ALUMINUM, PERFORATED. FACE AREA SHALL BE SUITABLE FOR 24"X24" LAY-IN CEILING GRID. PROVIDE WITH BAKED ENAMEL FINISH IN A COLOR MATCHING THE CEILING GRID.	TITUS 8F
RG	SURFACE MOUNT RETURN GRILLE (RG) SHALL BE STEEL WITH FXED 35° DEFLECTION, BLADES PARALLEL TO THE LONG DIMENSION AND 3/4" BLADE SPACING. PROVIDE WITH FACTORY APPLIED, WHITE, BAKED ENAMEL FINISH AND OPPOSED BLADE DAMPER.	TITUS 350RL

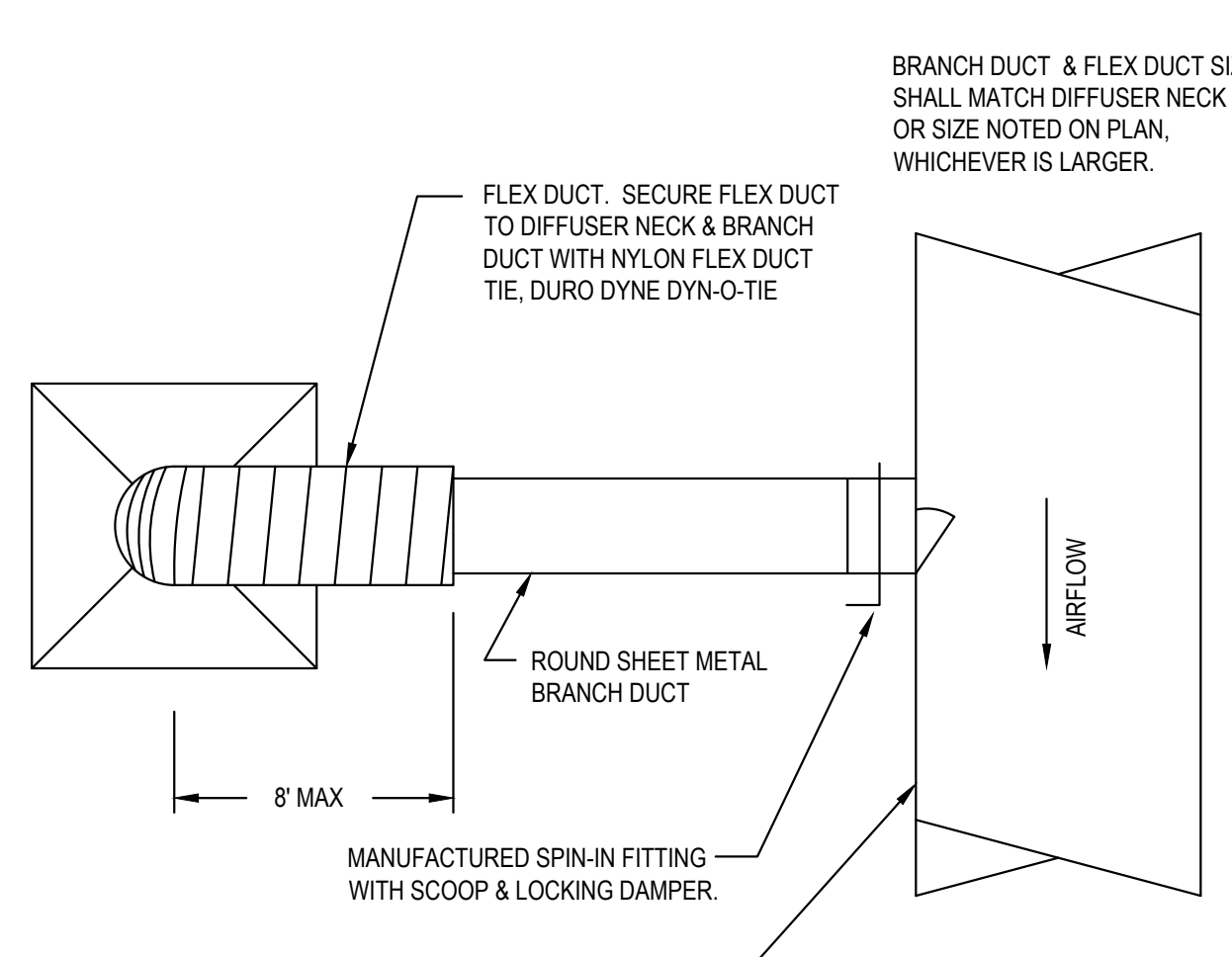


NOTES:

- PROVIDE WITH CHIMNEY EXTENSION ACCESSORY TO EXTEND DUCT SHROUD UP TO CEILING.

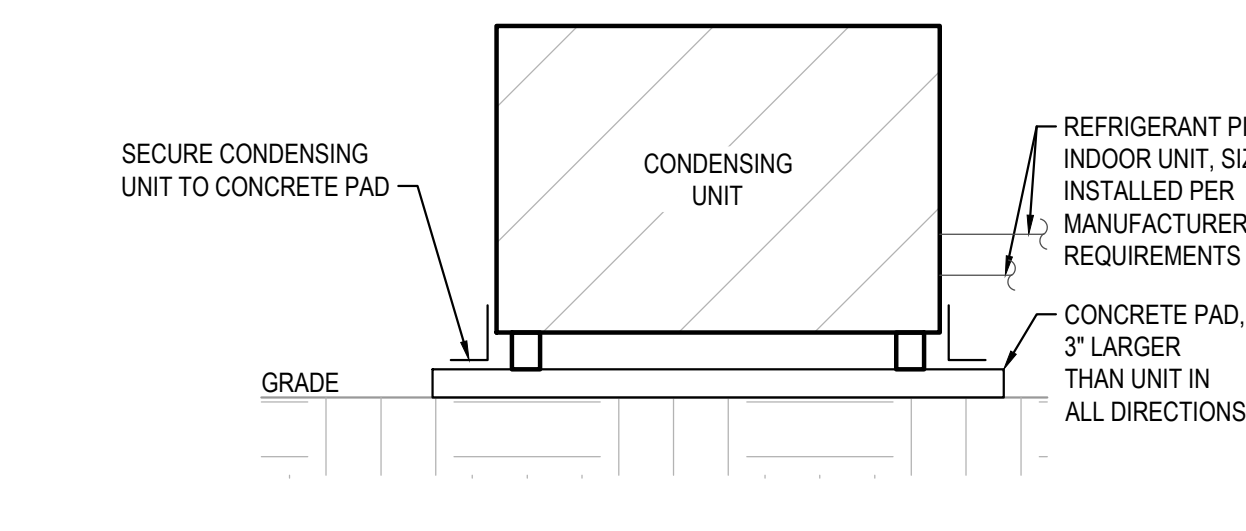
KITCHEN HOOD SCHEDULE										
TAG	EXHAUST PLENUM RISERS				PERFORATED SUPPLY PLENUM(S) RISERS				BASIS OF DESIGN	
	EXH AIRFLOW (CFM)	WIDTH (IN)	DEPTH (IN)	AIRFLOW (CFM)	SP (IN W.C.)	MUA AIRFLOW (CFM)	WIDTH (IN)	DEPTH (IN)		AIRFLOW (CFM)
KH-1	600	36"	--	--	--	--	--	--	--	PLJW 101.36

- NOTES:
- PROVIDE WITH CHIMNEY EXTENSION ACCESSORY TO EXTEND DUCT SHROUD UP TO CEILING.



NOTES:

- BRANCH DUCT & FLEX DUCT SIZE SHALL MATCH DIFFUSER NECK SIZE OR SIZE NOTED ON PLAN, WHICHEVER IS LARGER.



NOTES:

- REFRIGERANT PIPING TO INDOOR UNIT, SIZED & INSTALLED PER MANUFACTURER'S REQUIREMENTS.
- CONCRETE PAD, 3" LARGER THAN UNIT IN ALL DIRECTIONS.

FAN SCHEDULE										
TAG	AIRFLOW (CFM)	ESP (IN W.C.)	MOTOR (W)	FAN RPM	DRIVE TYPE	VOLTS/PHASE	NOISE (SONES)	TYPE	BASIS OF DESIGN	NOTES
EF-A	70	0.25	23.3	-	DIRECT	115/1	0.4	CEILING EXHAUST	BROAN QTXE080	1,2
EF-B	70	0.25	23.3	-	DIRECT	115/1	0.4	CEILING EXHAUST	BROAN QTXE080	1,3
EF-1	11,000	0.25	3.0 HP	745	BELT	208/3	0.6	ROOF DOWNBLAST	GREENHECK GB-300-30	1,4,5
EF-2	500	0.125	25 HP	1155	DIRECT	115/1	22	SIDEWALL PROPELLER	GREENHECK SE-12-426-VG	1,6,7,8

- NOTES:
- PROVIDE WITH BACKDRAFT DAMPER AND SPEED CONTROLLER FOR BALANCING.
  - FAN SHALL BE INTERLOCKED WITH LIGHTS.
  - FAN SHALL BE CONTROLLED BY A SWITCH LOCATED IN ROOM FAN SERVES.
  - FAN SHALL BE CONTROLLED BY A THERMOSTAT WITH CARBON MONOXIDE SENSOR, AND SHALL HAVE EMERGENCY OVERRIDE TO TURN ON FAN UPON DETECTION OF CARBON MONOXIDE.
  - BELT DRIVE CENTRIFUGAL ROOF EXHAUST FAN. FAN WITH ALUMINUM HOUSING, BACKWARD INCLINED WHEEL, ALUMINUM CURB CAP W/ PREPUNCHED MOUNTING HOLES, AND BIRD SCREEN.
  - DIRECT DRIVE PROPELLER WALL FAN. PROVIDE FACTORY DISCONNECT.
  - FAN SHALL HAVE MANUFACTURER'S VARI GREEN ECM MOTOR WITH POTENTIOMETER DIAL.
  - FAN TO BE CONTROLLED BY A THERMOSTAT LOCATED IN ROOM IT SERVES.

WALL LOUVER SCHEDULE								
TAG	AREA/UNIT SERVED	SERVICE	DESCRIPTION	FREE AREA (SF)	NOMINAL SIZE (IN)	HEIGHT (IN)	PRESSURE DROP (IN W.C.)	BASIS OF DESIGN
WL-101	APPARATUS BAY	INTAKE	STATIONARY DRAINABLE	9.41	48	48	0.05	GREENHECK ESD-603 1,2,3,4,5
WL-102	APPARATUS BAY	INTAKE	STATIONARY DRAINABLE	9.41	48	48	0.05	GREENHECK ESD-603 1,2,3,4,5
WL-103	OA	INTAKE	STATIONARY DRAINABLE	1.54	36	16	0.05	GREENHECK ESD-603 1,2,3,4,5
WL-104	OA	INTAKE	STATIONARY DRAINABLE	1.54	36	16	0.05	GREENHECK ESD-603 1,2,3,4,5

- NOTES:
- LOUVER COMPONENTS (HEADS, JAMBS, SILLS, BLADES, & MULLIONS) SHALL BE FACTORY ASSEMBLED BY MANUFACTURER.
  - PROVIDE WITH GALVANIZED MESH BIRD SCREEN.
  - PROVIDE WITH FACTORY APPLIED 2-COAT 50% KYNAR FINISH. COORDINATE COLOR WITH ARCHITECT PRIOR TO ORDERING.
  - LOUVER PERFORMANCE SHALL BE TESTED IN ACCORDANCE WITH AMCA 511.
  - PROVIDE COUNTER BALANCE BAROMETRIC DAMPER. SET DAMPER AT 0.05" W.G.

HEAT PUMP SPLIT SYSTEM SCHEDULE																				
TAG	SUPPLY AIR (CFM)	ESP (IN W.C.)	OUTSIDE AIR (CFM)	BLOWER MOTOR POWER (HP)	COOLING				HEAT PUMP				AUX. ELEC HEAT		VOLTAGE/PHASE		ORIENTATION	BASIS OF DESIGN	NOTES	
					TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	EAT DB/WB (°F)	OUTDOOR TEMP DB (°F)	MIN. SEER	TOTAL CAPACITY (MBH)	EAT DB (°F)	OUTDOOR TEMP DB (°F)	MIN. HSPF	CAPACITY (KW)	NO. OF STAGES	INDOOR UNIT (V/Ø)				OUTDOOR UNIT (V/Ø)
FC/HP-1	1,400	0.6	225	3/4	35.0	47.0	78 / 65	95	14.0	55.0	68	17	8.2	11.3	1	208/3	208/1	VERTICAL	CARRIER FV4CNB006L00 / 25HCB648A003	1,2,5
FC/HP-2	1,750	0.6	350	3/4	60.0	44.0	78.5 / 65.3	95	14.0	55.0	68	17	8.2	11.3	1	208/3	208/1	VERTICAL	CARRIER FV4CNB006L00 / 25HCB660A004	1,2,3,4,5

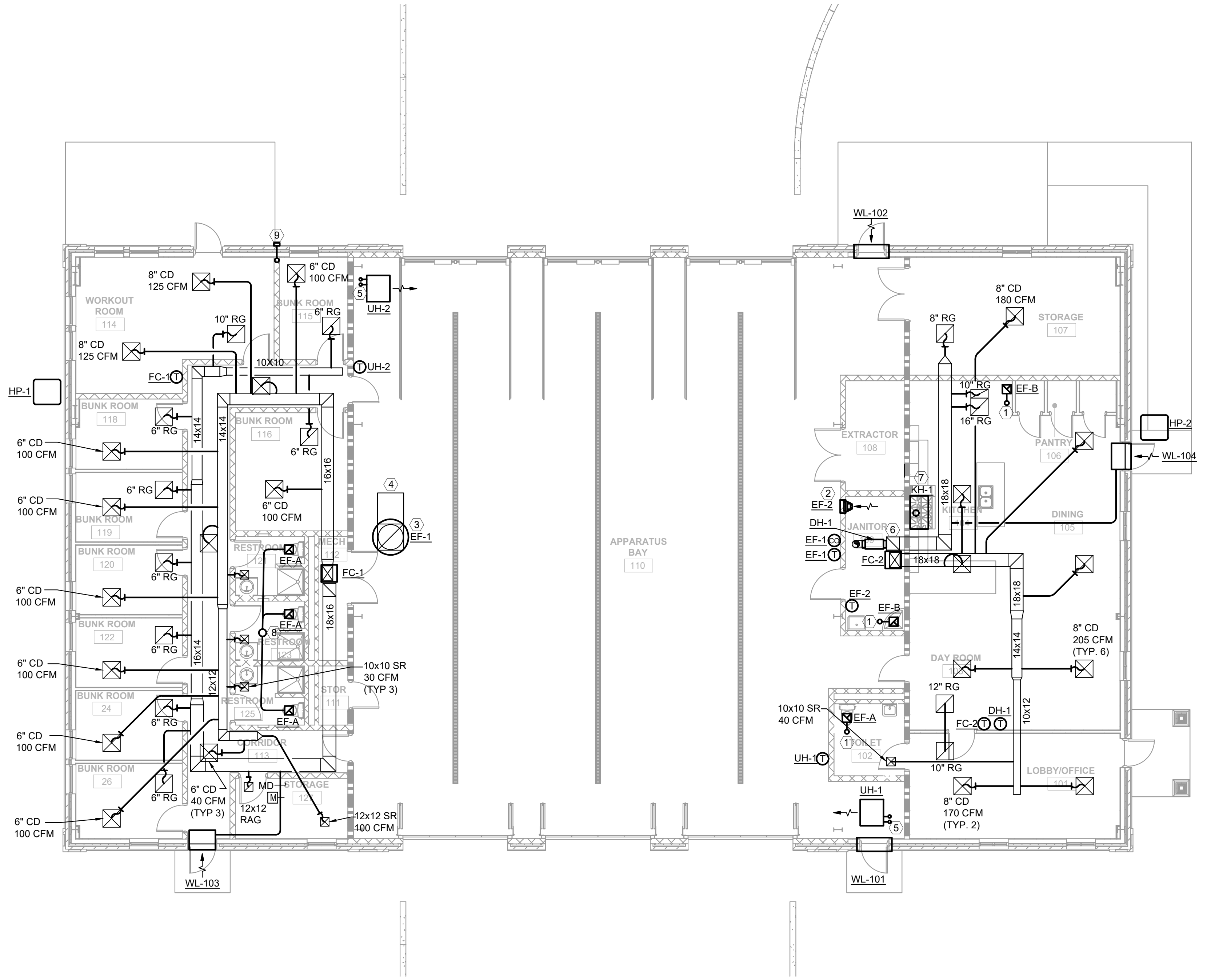
- NOTES:
- PROVIDE WITH 7-DAY PROGRAMMABLE THERMOSTAT. THERMOSTAT SHALL HAVE PROGRAMMABLE OCCUPANCY PERIODS TO ENERGIZE SUPPLY FAN AND OPEN ASSOCIATED OUTSIDE AIR DAMPER DURING OCCUPIED PERIODS.
  - PROVIDE WITH LITTLE GIANT CONDENSATE PUMP.
  - INSTALL SMOKE DETECTOR, PROVIDED BY DIV. 26.
  - PROVIDE WITH COMPARATIVE ENTHALPY ECONOMIZER CONTROLS MODULATING OUTSIDE AIR DAMPER.
  - AIR HANDLING UNIT ACCESSORY HEAT AT 208/Ø, AIR HANDLING UNIT FAN AT 208/1Ø. PROVIDE A SINGLE POINT CONNECTION.





KEY NOTES:

- 6" Ø EXHAUST UP TO ROOF CAP.
- PROVIDE DWYER GSTA-C-LCD CARBON MONOXIDE (FOR GASOLINE ENGINES WITH CMT200 TRANSMITTER, LCD DISPLAY, SCD-PS POWER SUPPLY, ALL MOUNTED IN A NEMA 4 ENCLOSURE. PROVIDE STROBE/BUZZER AND RELAY TO ACTIVATE EXHAUST FAN (EF-2) AND OPEN DAMPERS. SETPOINT FOR ACTIVATING ALARM STROBE/BUZZER DEVICE SHALL BE 25 PPM OF CARBON MONOXIDE. PROVIDE SIGNAGE AT STROBE THAT READS "HIGH CARBON MONOXIDE LEVEL ALARM". PROVIDE A-507 GAS CALIBRATION KIT. TURN IT OVER TO OWNER FOR CALIBRATION TEST AT 6-MONTH INTERVALS. UPON SENSING CO LEVEL ABOVE 25 PPM, SYSTEM SHALL ACTIVATE ALARM.
- 36"X36" EXHAUST DUCT UP TO ROOF. TRANSITION TO EXHAUST FAN OPENING AT UNDER SIDE OF ROOF.
- PROVIDE MESHED OPENING AT END OF DUCT.
- 4" Ø VENTS TO CONCENTRIC VENT ON ROOF. ROUTE AND SIZE PER MANUFACTURER'S INSTRUCTIONS.
- CONNECT DEHUMIDIFIER 10" Ø INLET TO RETURN DUCT APPROXIMATELY 50" A.F.F. CONNECT 10" Ø OUTLET TO RETURN AIR PLENUM.
- 8" Ø EXHAUST UP TO ROOF CAP.
- 10" Ø EXHAUST UP TO ROOF CAP.
- 4" Ø DRYER EXHAUST DUCT. PROVIDE WALL CAP. PAINT CAP TO MATCH EXTERIOR WALL. ROUTE AND SIZE PER MANUFACTURER'S INSTRUCTIONS.



1 FLOOR PLAN - MECHANICAL  
1/8" = 1'-0"

REVISIONS

NO.	DESCRIPTION



NEW CONSTRUCTION  
**ROCKDALE FIRE  
STATION 10**  
ROCKDALE, GEORGIA

ROCKDALE  
FIRE  
STATION 10  
3130 GA Hwy, 138  
Conyers, GA 30013

ROCKDALE  
CO. FIRE  
DEPT.  
Fire Station No. 7  
1496 Rockbridge Road  
Conyers, GA 30012

TITLE FLOOR PLAN  
MECHANICAL

STATUS Issue for Permit

JOB 121038.00

QC Checker

DRAWN Author

SHEET **M-1.1**

DATE 06/22/22



## ELECTRICAL LEGEND

### LIGHTING

	LIGHTING FIXTURE	
	EMERGENCY LIGHTING FIXTURE AND/OR NIGHTLIGHT AS INDICATED	
	DOWNLIGHT.	
	EXIT LIGHTING FIXTURE, FACE PLATES (DARKENED) AND DIRECTIONAL ARROWS AS INDICATED. PROVIDE WITH BATTERY BACKUP, UNO, CONNECT AHEAD OF LOCAL SWITCH.	
	S S <sub>3</sub> S <sub>4</sub> S <sub>D</sub> S <sub>P3</sub> S <sub>OS</sub> S <sub>OS</sub> S <sub>OS</sub> S <sub>OS</sub> S <sub>OS</sub> S <sub>LV</sub>	SINGLE POLE SWITCH, 20A, 120/277 VOLT, 46" A.F.F. THREE-WAY SWITCH, 20A, 120/277 VOLT, 46" A.F.F. FOUR-WAY SWITCH, 20A, 120/277 VOLT, 46" A.F.F. DIMMER SWITCH, 46" A.F.F. PROVIDE WATTAGE AS REQUIRED. PROVIDE DIMMER SWITCH COMPATIBLE WITH LED LIGHT FIXTURE. PROVIDE WIRING AS REQUIRED FROM DIMMER TO LIGHT FIXTURE. COORDINATE WITH FIXTURE MANUFACTURER. THREE-WAY SWITCH WITH PILOT LIGHT, 20A, 120/277 VOLT, 46" A.F.F.
	CEILING MOUNTED OCCUPANCY SENSOR. BY WATT STOPPER OR APPROVED EQUAL. PROVIDED WITH NUMBER OF SWITCH PACKS AS REQUIRED AND ALL OTHER REQUIRED ACCESSORIES FOR PROPER INSTALLATION.	
	WALL MOUNTED SWITCH, 20A, 120/277V, 46" AFF WITH INTEGRAL OCCUPANCY SENSOR. BY WATT STOPPER OR APPROVED EQUAL. PROVIDED WITH NUMBER OF SWITCH PACKS AS REQUIRED AND ALL OTHER REQUIRED ACCESSORIES FOR PROPER INSTALLATION.	
	(2) WALL MOUNTED SWITCHES, 20A, 120/277V, 46" AFF WITH INTEGRAL OCCUPANCY SENSOR. BY WATT STOPPER OR APPROVED EQUAL. PROVIDED WITH NUMBER OF SWITCH PACKS AS REQUIRED AND ALL OTHER REQUIRED ACCESSORIES FOR PROPER INSTALLATION.	
	WALL MOUNTED DIMMER SWITCH, 20A, 120/277V, 46" AFF WITH INTEGRAL OCCUPANCY SENSOR. BY WATT STOPPER OR APPROVED EQUAL. PROVIDED WITH NUMBER OF SWITCH PACKS AS REQUIRED AND ALL OTHER REQUIRED ACCESSORIES FOR PROPER INSTALLATION.	
	LOW VOLTAGE OVERRIDE SWITCH FOR LIGHTING CONTROLS, 46" A.F.F. PROVIDE LOW VOLTAGE WIRING AS REQUIRED. COORDINATE WITH LIGHTING CONTROL MANUFACTURER.	

### POWER

	DUPLX GROUNDING TYPE RECEPTACLE, 20A, 125 VOLT, NEMA 5-20R, 18" A.F.F., U.O.N.
	(2) DUPLX GROUNDING TYPE RECEPTACLES IN COMMON BOX, 20A, 125 VOLT, NEMA 5-20R, 18" A.F.F., U.O.N.
	DUPLX ISOLATED GROUNDING TYPE RECEPTACLE, 20A, 125 VOLT, NEMA 5-20R, 18" A.F.F., U.O.N. RECEPTACLE BODY SHALL BE ORANGE.
	DUPLX GROUND FAULT INTERRUPTER TYPE RECEPTACLE, 20A, 125 VOLT, NEMA 5-20R, 18" A.F.F., U.O.N.
	WEATHER RESISTANT RATED, DUPLX GROUND FAULT INTERRUPTER TYPE RECEPTACLE, MOUNT HORIZONTALLY 18" A.F.F., U.O.N., IN CAST OUTLET BOX WITH GASKET DEVICE COVER.
	DUPLX GROUNDING TYPE RECEPTACLE, 20A, 125 VOLT, NEMA 5-20R. MOUNT HORIZONTALLY 6" A.F.F. FOR WATER COOLER.
	SPECIAL RECEPTACLE, AMPERAGE, AND VOLTAGE AS INDICATED, 18" AFF, UON.
	PROVIDE COMBINATION USB CHARGER AND TAMPER RESISTANT RECEPTACLE. LEVITON DEVICE #T5632. COORDINATE LOCATIONS WITH ARCHITECT.
	RECEPTACLE/TELEPHONE/DATA OUTLETS, FLUSH MOUNT IN FLUSH MOUNTED FLOOR BOX WITH RUBBER OR THERMOPLASTIC CARPET COVER PLATE. PROVIDE NUMBER AND TYPE OF DEVICES PER PLANS. COORDINATE DEPTH OF FLOOR BOX WITH SLAB DEPTH. COORDINATE EXACT LOCATION WITH ARCHITECT. PROVIDE 3/4" CONDUIT WITH CONDUCTORS INDICATED FOR SERVICE TO RECEPTACLE OUTLET. PROVIDE (1) 1-1/4" CONDUIT WITH PULLWIRE FROM EACH SPECIAL SYSTEMS OUTLET TO ABOVE NEAREST ACCESSIBLE CEILING FOR SPECIAL SYSTEM WIRING BY OTHERS.
	PANELBOARD
	ELECTRICAL CIRCUIT RUN IN CONDUIT AND CIRCUIT HOMERUN TO PANELBOARD (PANEL AND CIRCUIT DESIGNATION AS INDICATED). AS A MINIMUM CONDITION, EACH SINGLE PHASE CIRCUIT SHALL HAVE ONE #12 PHASE CONDUCTOR, ONE #12 NEUTRAL CONDUCTOR, AND ONE #12 GROUNDING CONDUCTOR (PLUS ONE INSULATED, ISOLATED GROUNDING CONDUCTOR WHEN SERVING ISOLATED GROUND TYPE DEVICES) IN 1/2" CONDUIT. PROVIDE ADDITIONAL PHASE CONDUCTORS AS REQUIRED FOR "MULTIPLE PHASED" ELECTRICAL LOADS. PROVIDE ADDITIONAL "SWITCH LEG" CONDUCTORS TO PROVIDE THE LIGHT FIXTURE CONTROL INDICATED. MULTIPLE SINGLE PHASE CONDUCTORS SHALL BE GROUPED TOGETHER IN A COMMON CONDUIT IN ACCORDANCE WITH THE NEC AND AT THE CONTRACTOR'S DISCRETION. MULTIPLE SINGLE PHASE CONDUCTORS SERVING ISOLATED GROUND RECEPTACLES SHALL NOT SHARE COMMON NEUTRALS. NEUTRAL AND GROUNDING CONDUCTORS SHALL BE SHARED AS ALLOWED BY THE NEC. BRANCH CIRCUIT CONDUCTORS IN CONDUIT SHALL BE RUN CONCEALED IN WALLS AND/OR ABOVE CEILINGS, IN/OR BELOW FLOORS, EXCEPT IN EXPOSED CONSTRUCTION AREAS. FLUORESCENT LIGHTING CIRCUITS SERVING SWITCHED FIXTURES WITH EMERGENCY BATTERY BACK-UP SHALL CONTAIN ONE UNSWITCHED CONDUCTOR. FLUORESCENT DIMMING CIRCUITS SERVING DIMMING BALLASTS SHALL BE PROVIDED WITH WIRING AS REQUIRED BY BALLAST MANUFACTURER. MULTIPLE PHASE LIGHTING CIRCUITS SERVING DIMMED LOADS SHALL NOT SHARE COMMON NEUTRALS.
	JUNCTION BOX.
	DISCONNECT SWITCH, 240 OR 600 VOLTS AS REQUIRED. AMPS, POLES AND FUSING AS NOTED, NEMA 1, U.O.N.
	MOTOR RATED SWITCH. MOUNT WITHIN SIGHT OF EQUIPMENT.
	MOTOR CONNECTION, WITH INTEGRAL DISCONNECTING MEANS.
	STARTER
	KEYNOTE.

### SPECIAL SYSTEMS

	TELEPHONE/DATA OUTLET 18" A.F.F., U.O.N. DOUBLE GANG BOX WITH DEVICE PLATE. PROVIDE 1" (UON) CONDUIT WITH PULLWIRE FROM OUTLET TO ABOVE ACCESSIBLE CEILING. PROVIDE WITH SINGLE GANG ADAPTER.
	TELEPHONE OUTLET 18" A.F.F., U.O.N. DOUBLE GANG BOX WITH DEVICE PLATE. PROVIDE 3/4" (UON) CONDUIT WITH PULLWIRE FROM OUTLET TO ABOVE ACCESSIBLE CEILING. PROVIDE WITH SINGLE GANG ADAPTER.
	TELEVISION OUTLET 18" A.F.F., U.O.N. SINGLE GANG BOX WITH DEVICE PLATE. PROVIDE 3/4" (UON) CONDUIT WITH PULLWIRE FROM OUTLET TO ABOVE ACCESSIBLE CEILING.
	TELEPHONE/TELEVISION BACKBOARD, 4' X 4' X 3/4" THICK EXTERIOR GRADE PLYWOOD. MOUNT VERTICALLY WITH BOTTOM OF PLYWOOD 6" A.F.F., U.O.N.

### FIRE ALARM SYSTEMS

	FIRE ALARM PULL STATION. WALL MOUNT AT 46" A.F.F (ON CENTER)
	FIRE ALARM HORN/STROBE. WALL MOUNT 80" A.F.F. TO BOTTOM OF LENS, (BOTTOM OF LENS 96" MAX A.F.F OR 6" BELOW CEILING IN COMPLIANCE WITH NFPA 72.)
	FIRE ALARM SMOKE DETECTOR, PHOTOELECTRIC TYPE.
	FIRE ALARM CO DETECTOR.
	FIRE ALARM HORN/STROBE. CEILING MOUNT.

## GENERAL ELECTRICAL NOTES:

- FOR EXACT LOCATION OF EQUIPMENT MOUNTED IN SUSPENDED CEILINGS, SUCH AS LIGHTING FIXTURES, AND SMOKE DETECTORS, SEE ARCHITECTURAL REFLECTED CEILING PLANS. ARCHITECTURAL REFLECTED PLAN SHALL GOVERN FINAL LOCATION.
- PRIOR TO ROUGH-IN, CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL WIRING DEVICE WITH ARCHITECTURAL ELEVATION TO AVOID CONFLICTS WITH CASEWORK, COUNTER TOPS, DOOR SWINGS, ETC. WHERE CONFLICTS OCCURS, CONTRACTOR SHALL CONTACT THE ARCHITECT IN WRITING FOR RESOLUTION.
- ALL MOUNTING HEIGHT DIMENSIONS ARE TO THE CENTER OF THE OUTLET BOX UNLESS OTHERWISE NOTED.
- FOR EXACT LOCATION OF ALL EXTERIOR LIGHTING FIXTURES MOUNTED ON EXTERIOR OF BUILDING, ARCHITECTURAL ELEVATIONS SHALL GOVERN
- PRIOR TO ROUGH-IN FOR ALL LIGHTING SWITCHES, VERIFY ALL DOOR SWINGS WITH ARCHITECTURAL PLANS.
- THE CONTRACTOR SHALL USE CARE WHEN CUTTING OPENINGS FOR OUTLET BOXES IN CMU WALLS. OUTLET BOXES SHALL BE INSTALLED IN CMU WALLS SECURELY WITH EPOXY.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING OUTLET BOX INSTALLATION WITH WALL FINISH (GYPSUM FURRING, TILE, ETC). THE CONTRACTOR SHALL PROVIDE AND INSTALL ANY EXTENSION RINGS NECESSARY TO ACCOMMODATE WALL FINISHES.
- ALIGN VERTICALLY AND HORIZONTALLY ALL LIGHT SWITCHES, THERMOSTATS, FIRE ALARM PULL STATIONS, ETC. ALL THESE ITEMS SHALL BE CLUSTERED WHERE POSSIBLE. COORDINATE EXACT REQUIREMENTS WITH ARCHITECT.
- COORDINATE MOUNTING OF ALL EXTERIOR DISCONNECT WITH ARCHITECTURAL ELEVATIONS. IF NOT INDICATED ON ARCHITECTURAL ELEVATIONS, REQUEST ELEVATIONS OF DISCONNECT SWITCHES FROM ARCHITECT IN WRITING PRIOR TO ROUGH-IN.
- ALL CONDUITS FOR LOW VOLTAGE OUTLETS SHALL BE DEDICATED TO A SINGLE BOX. NO DAISY CHAINING OR SHARING OF CONDUITS BETWEEN LOW VOLTAGE OUTLET BOXES IS PERMITTED UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS.
- PROVIDE FIELD IDENTIFICATION FOR PANELBOARDS AND SWITCHBOARDS (IF APPLICABLE) PER NEC 408.4. ADDITIONALLY, EACH RECEPTACLE AND DISCONNECT SHALL HAVE A PRINTED LABEL WITH SPECIFIC PANEL AND CIRCUIT NUMBER.
- PROVIDE PERMANENT NAMEPLATE LABEL FOR PANELBOARDS IDENTIFYING COLOR CODING FOR BRANCH CIRCUITS, IN ACCORDANCE WITH NEC 210.5(C)(1).
- PER NEC 406.12 PROVIDE TAMPER PROOF RECEPTACLES IN THE FOLLOWING AREAS: DWELLING UNITS, COMMON AREAS OF MULTIFAMILY DWELLINGS, GUEST ROOMS AND COMMON AREAS OF MOTELS/HOTELS, CHILDCARE FACILITIES, PRESCHOOLS AND EDUCATIONAL FACILITIES, DORMITORY UNITS, ASSISTED LIVING FACILITIES AND ASSEMBLY OCCUPANCIES PER SECTION 518.2. TAMPER PROOF RECEPTACLES ARE ALSO REQUIRED IN BUSINESS OFFICES, CORRIDORS AND WAITING ROOMS WITHIN CLINICS/MEDICAL OFFICES/DENTAL OFFICES/OUTPATIENT FACILITIES.
- PER NEC 408.6, AVAILABLE FAULT CURRENT AND THE DATE THE CALCULATION WAS PERFORMED MUST BE FIELD MARKED ON THE ENCLOSURE AT THE POINT OF THE SUPPLY. THE MARKING MUST BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED PER 110.24.

### ABBREVIATIONS

A	- AMPERES	MCB	- MAIN CIRCUIT BREAKER
A.F.F.	- ABOVE FINISHED FLOOR	MLO	- MAIN LUG ONLY
A.F.G.	- ABOVE FINISHED GRADE	NTS	- NOT TO SCALE
BFG	- BELOW FINISHED GRADE	P	- POLE
C	- CONDUIT	PNL	- PANEL
ETR	- EXISTING TO REMAIN	SN	- SOLID NEUTRAL
F	- FUSE	U.O.N.	- UNLESS OTHERWISE NOTED
GFI	- GROUND FAULT CIRCUIT INTERRUPTING	V	- VOLTS
G	- GROUND	W	- WIRE
KVA	- KILO VOLT AMP	WP	- WEATHERPROOF/GFI
KW	- KILOWATT		

### UTILITY NOTES:

- PRIOR TO ANY EXCAVATION, CONTRACTOR SHALL HAVE ALL EXISTING UNDERGROUND UTILITIES LOCATED.

### FIRE PROOFING NOTES:

- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING FIRE STOPPING AT ALL WALL, FLOOR AND CEILING PENETRATIONS WHERE CONDUIT PENETRATIONS OCCUR.
- PROVIDE FIRE STOPPING AT CONDUIT PENETRATIONS PER UL.

### DEVICE PLATE NOTE:

ALL COVERPLATES SHALL BE NYLON WITH FINISH PER ARCHITECT. ALL DEVICES (SWITCHES, RECEPTACLES, ETC) SHALL BE FINISH BY ARCHITECT (UON). COORDINATE WITH ARCHITECTURAL PLANS.

### LIGHTING CONTROL COMMISSIONING:

COMMISSION ALL AUTOMATIC LIGHTING CONTROLS IN ACCORDANCE WITH THE 2015 IECC ENERGY CODE. COORDINATE TESTING WITH LIGHTING CONTROLS SUPPLIER.

### WIRE SIZE CHART:

CONTRACTOR SHALL PROVIDE WIRING FOR 277V. CIRCUITS (LINE TO NEUTRAL) OF SIZES BELOW DEPENDING UPON CIRCUIT LENGTH BELOW:	
< 200 FT	#12 AWG (CU)
200-320 FT	#10 AWG (CU)
320-500 FT	#8 AWG (CU)

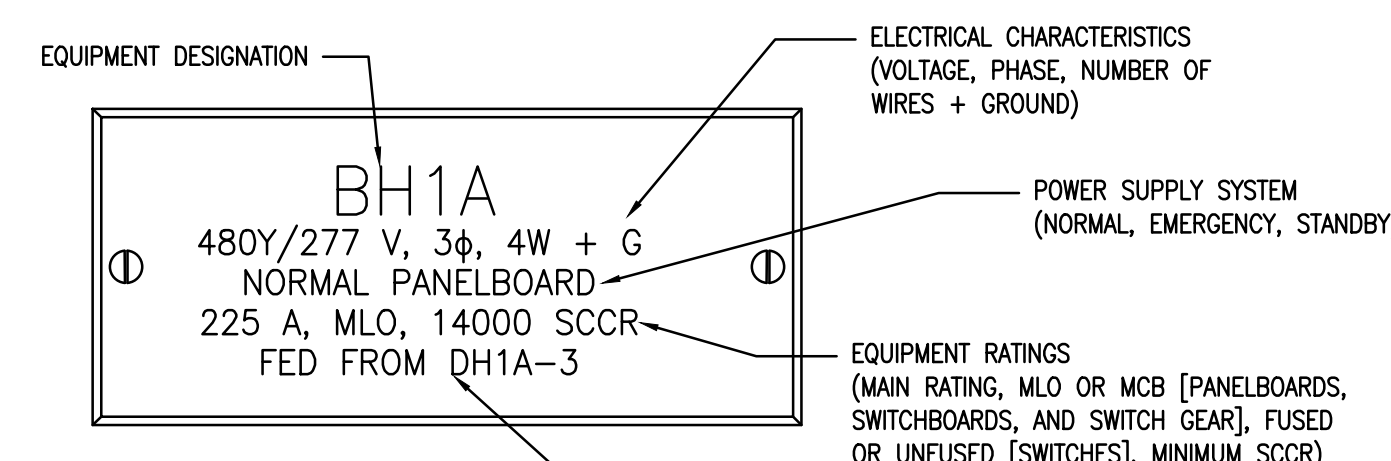
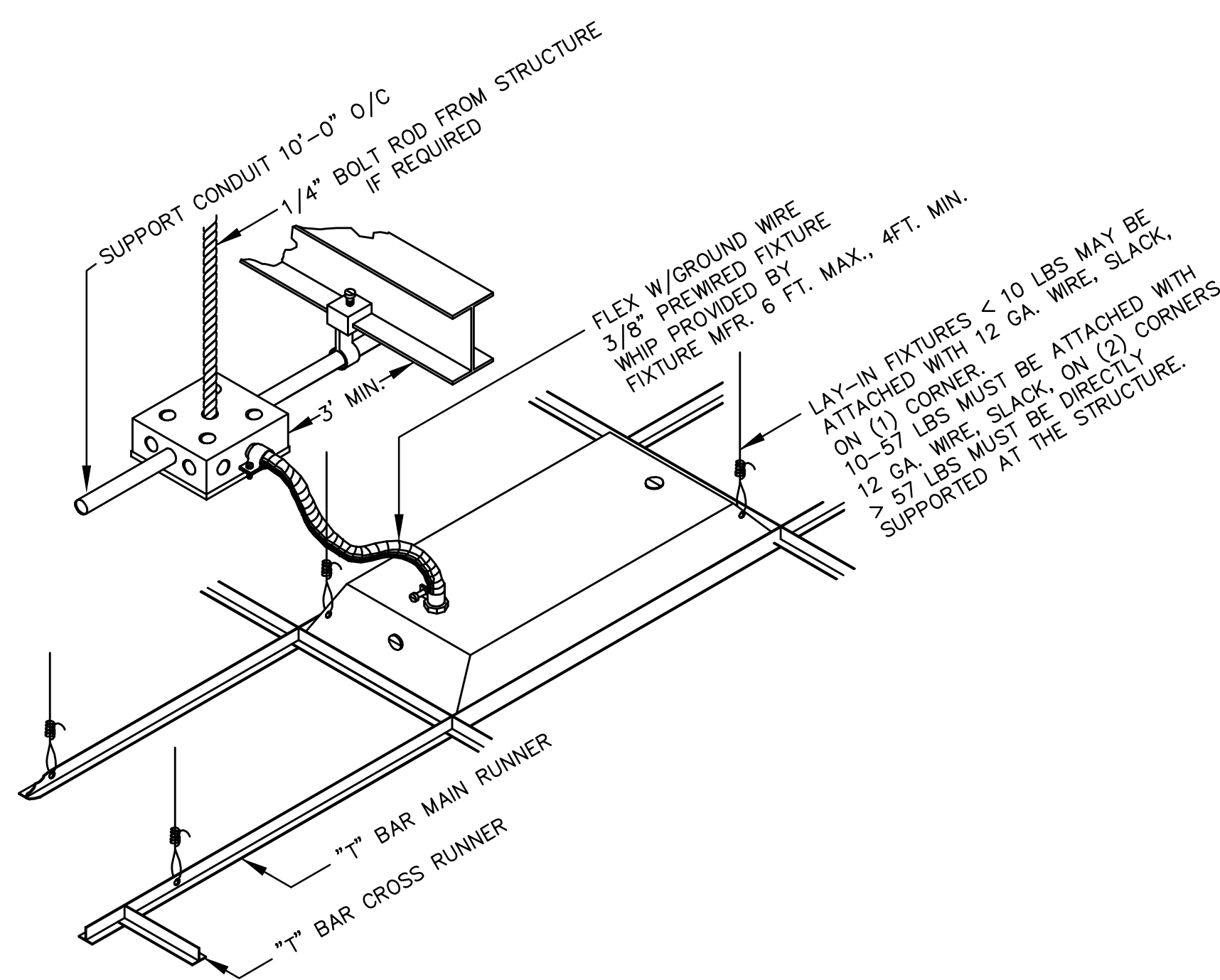
### WIRE SIZE CHART:

CONTRACTOR SHALL PROVIDE WIRING FOR 120V. CIRCUITS (LINE TO NEUTRAL) OF SIZES BELOW DEPENDING UPON CIRCUIT LENGTH BELOW:	
< 100 FT	#12 AWG (CU)
100-160 FT	#10 AWG (CU)
160-250 FT	#8 AWG (CU)

LIGHTING FIXTURE SCHEDULE								
TYPE	DESCRIPTION	MOUNT	VOLTAGE	LAMP QTY	LAMP WATTAGE/TYPE	MANUFACTURER	CATALOG NUMBER	NOTES
A	2'X4' RECESSED CONTEMPORARY LOW PROFILE ARCHITECTURAL TROFFER WITH ACRYLIC CENTER LENS AND MATTE WHITE POWDER PAINTREFLECTOR, 4032 LUMENS	RECESSED	120	-	34W LED 4000K	COLUMBIA LIGHTING	LCAT SERIES	1
B	2'X4' RECESSED LED TROFFER, WHITE FLUSH STEEL DOOR WITH SMOOTH HEMMED SIDES, 4291 LUMENS	RECESSED	120	-	39W LED 3500K	COLUMBIA LIGHTING	LIT SERIES	1
C	4' LED STRIP LIGHT WITH FROSTED DROP DIFFUSE LENS, 5000 LUMENS	SURFACE/PENDANT	120	-	42W LED 4000K	COLUMBIA LIGHTING	LCL SERIES	1
D	6" LED COMMERCIAL DOWNLIGHT, PROVIDE NON-CONDUCTIVE SHOWER TRIM, WET LISTED, 1500 LUMENS	RECESSED	120	-	23W LED 4000K	PRESCOLITE	LF6SL-6FSL(11L/15L/20L)35K8	1
F	INDOOR CEILING FAN. FINISH SELECTED BY ARCHITECT.	SURFACE	120	-	-	-	REFER TO MECHANICAL FOR FIXTURE SPECIFICATIONS	
F1	OUTDOOR RATED CEILING FAN WITH INTEGRAL LIGHT. FINISH SELECTED BY ARCHITECT.	SURFACE	120	-	18W LED 4000K	HUNTER	ANORAK OUTDOOR WITH LED LIGHT 52 INCH	
H	LED HIGH-BAY, ALUMINUM HEAT SINK DESIGNED TO PERFORM AT HIGH AMBIENT TEMPERATURES, DAMP LOCATION LISTED, PROVIDE WIREGAURD, 22318 LUMENS	SURFACE/PENDANT	120	-	195W LED 5000K	COLUMBIA LIGHTING	LLHW SERIES	
P	INGROUND FLAG LIGHT	GROUND	120	-	64W LED 4000K	LSI LIGHTING	XFLM-SP-LED-49-HO-CW-UE-XXX-BD STANCHION MOUNT; BKA-XELM-SMC-23-XXX	
OA	ARCHITECTURAL ROUND WALL PACK WITH DIE-CAST ALUMINUM HOUSING. IP65 RATING FOR SUITABLE FOR WET LOCATIONS, 4028 LUMENS	WALL MOUNT	120	-	47W LED 4000K	LITHONIA LIGHTING	WSR LED SERIES	
WX	EXTERIOR WALLPACK WITH INTEGRAL PHOTOCELL AND INTEGRAL BATTERY BACK UP	WALL 8'-0" AFF	120	-	30W LED 4000K	SPAULDING	TRP1-12L-30-4K7-3-UNV-FINISHJ-PC-E	1
WXL	LOW PROFILE EXTERIOR WALLPACK WITH INTEGRAL PHOTOCELL AND INTEGRAL BATTERY BACK UP, 1940 LUMENS	WALL 8'-0" AFF OR MULLION	120	-	25W LED 4000K	NEW STAR	GTW2-HP-L2-40-UN-FINISHJ-PC-EL	1
	EMERGENCY BATTERY PACK	WALL	120	-	FURN WITH UNIT	DUAL-LITE	LZ-03L	
	EXIT SIGN, LED POLYCARBONATE BODY, RED LETTERING WITH CHEVRON ARROW(S) AS SHOWN WITH INTEGRAL BATTERY BACK-UP	CEILING/WALL	120	-	FURN WITH UNIT	DUAL-LITE	EVE-U-RW-E	
	EDGELIT EXIT SIGN, SINGLE FACE, RED LETTERING, PROVIDE WITH ARROW(S) AS SHOWN WITH INTEGRAL BATTERY BACK-UP	CEILING/WALL	120	-	FURN WITH UNIT	DUAL-LITE	LE-S-RW-E	

### NOTES:

- PROVIDE WITH 90-MINUTE BATTERY BACKUP WHERE INDICATED ON DRAWINGS. LINEAR FIXTURES SHALL HAVE 600 LUMEN INVERTER. DOWNLIGHTS SHALL HAVE INTEGRAL TEST SWITCH.



NAMEPLATE BACKGROUND COLORS SHALL BE BLACK FOR NORMAL POWER SUPPLY SYSTEMS, RED FOR LEGALLY REQUIRED EMERGENCY POWER SUPPLY SYSTEMS, AND YELLOW FOR OPTIONAL STANDBY POWER SUPPLY SYSTEMS.

Lyman  
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1648 Powers Ferry Road  
Building One  
Marietta, GA 30067

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### REVISIONS

NO.	DESCRIPTION

NEW CONSTRUCTION  
ROCKDALE FIRE  
STATION 10  
ROCKDALE, GEORGIA

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3130 GA Hwy, 138  
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ROCKDALE  
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TITLE NOTES, DETAILS, & LEGEND

STATUS Issue for Permit

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PANELBOARD SCHEDULE - 'MDP'																							
MAIN: 400A MCB		VOLTAGE: 208/120										PHASE: 3			WIRE: 4			MOUNTING: SURFACE		AIC:			
OKT #	TRIP	LOAD (KVA)										PHASE		LOAD (KVA)			MOUNTING: SURFACE		TRIP	OKT #			
#	POLE	DESCRIPTION	LTG	REC	MTR	A/C	HTG	KIT	MISC	A	B	C	LTG	REC	MTR	A/C	HTG	KIT	MISC	DESCRIPTION	POLE	#	
1	50/2	AH-1				4.5										4.5				AH-2	50/2	2	
3	---	---																		---	---	4	
5	50/2	HP-1				4.5										5.4				HP-2	60/2	6	
7	---	---														5.4				---	---	8	
9	60/2	SPACE																		SPACE	60/2	10	
11	---	---																		---	---	12	
13	150/3	PANEL LA	2.4	7.0	0.0	0.0	0.0	0.0	0.0	1.4	2.7	1.8	0.0	0.0	0.0	3.8				PANEL LB	150/3	14	
15	---	---	1.3	3.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	0.8	0.8	0.0	0.0	3.8				---	---	16	
17	---	---	1.0	7.0	0.0	0.6	0.0	0.0	0.0	0.0	3.5	0.5	0.6	0.0	0.0	1.5				---	---	18	
19	150/3	PANEL LEM	1.7	2.9	2.4	0.3	0.0	3.0	1.5				1.5							EF-4	20/3	20	
21	---	---	1.8	2.9	2.4	0.3	0.0	4.5	0.0				1.5							---	---	22	
23	---	---	0.4	3.5	2.4	0.0	0.0	1.7	0.0				1.5							---	---	24	
25	20/1	---																		---	---	26	
27	20/1	---																		---	---	28	
29	20/1	---																		---	---	30	
31	20/1	---																		---	---	32	
33	20/1	---																		---	---	34	
35	20/1	---																		---	---	36	
37	20/1	---																		---	---	38	
39	20/1	---																		---	---	40	
41	20/1	---																		---	---	42	
LIGHTING (KVA):		10.0	8.6	32.3	7.2	19.2	0.0	9.2	1.5				1.4	10.1	7.4	21.2	0.0	0.0	9.1	CONNECTED LOAD (KVA):		127.2	
RECEPTACLES (KVA):		42.4																			DEMAND LOAD (KVA):		107.8
MOTORS (KVA):		14.6								PHASE A	51	425.8									CONNECTED LOAD (AMPS):		353.0
A/C (KVA):		40.4								PHASE B	42	390.0									DEMAND LOAD (AMPS):		299.1
HEATING (KVA):		0.0								PHASE C	34	284.2									DEMAND LOAD (AMPS):		299.1
KITCHEN (KVA):		9.2																			AMPCAPACITY REQUIRED:		306.1
MISCELLANEOUS (KVA):		10.6																			AMPCAPACITY REQUIRED:		306.1

PANELBOARD SCHEDULE - 'LA'																							
MAIN: 150A MLO		VOLTAGE: 208/120										PHASE: 3			WIRE: 4			MOUNTING: SURFACE		AIC:			
OKT #	TRIP	LOAD (KVA)										PHASE		LOAD (KVA)			MOUNTING: SURFACE		TRIP	OKT #			
#	POLE	DESCRIPTION	LTG	REC	MTR	A/C	HTG	KIT	MISC	A	B	C	LTG	REC	MTR	A/C	HTG	KIT	MISC	DESCRIPTION	POLE	#	
1	20/1	LIGHTS				1.2										1.5				RECEPTACLES	20/1	2	
3	20/1	LIGHTS				1.3										1.5				RECEPTACLES	20/1	4	
5	20/1	LIGHTS				1.0										1.0				RECEPTACLES	20/1	6	
7	20/1	LIGHTS				1.2										0.8				RECEPTACLES	20/1	8	
9	20/1	SPARE														0.6				RECEPTACLES	20/1	10	
11	20/1	SPARE														0.6				RECEPTACLES	20/1	12	
13	20/1	SPARE														0.6				RECEPTACLES	20/1	14	
15	20/1	SPARE														0.6				RECEPTACLES	20/1	16	
17	20/1	SPARE														0.8				RECEPTACLES	20/1	18	
19	20/1	SPARE														1.0				RECEPTACLES	20/1	20	
21	20/1	SPARE														1.5				RECEPTACLES	20/1	22	
23	20/1	SPARE														0.8				RECEPTACLES	20/1	24	
25	20/1	SPARE														1.5				RECEPTACLES	20/1	26	
27	20/1	SPARE														1.5				RECEPTACLES	20/1	28	
29	20/1	SPARE														1.2				RECEPTACLES	20/1	30	
31	20/1	SPARE														1.5				WASHER	20/1	32	
33	20/1	SPARE														2.3				DRYER	20/2	34	
35	20/1	SPARE														2.3				---	---	36	
37	20/1	RECEPTACLES				1.0														SPACE	20/1	38	
39	20/1	RECEPTACLES				1.0														SPACE	20/1	40	
41	20/1	UH-2				0.6										0.0	21.0	0.0	0.0	0.0	0.0	42	
LIGHTING (KVA):		4.7	4.7	2.0	0.0	0.6	0.0	0.0	0.0				0.0	21.0	0.0	0.0	0.0	0.0	0.0	CONNECTED LOAD (KVA):		28.3	
RECEPTACLES (KVA):		23.0																			DEMAND LOAD (KVA):		21.8
MOTORS (KVA):		0.0								PHASE A	9	78.3									CONNECTED LOAD (AMPS):		78.5
A/C (KVA):		0.6								PHASE B	10	85.8									DEMAND LOAD (AMPS):		60.5
HEATING (KVA):		0.0								PHASE C	9	71.7									DEMAND LOAD (AMPS):		60.5
KITCHEN (KVA):		0.0																			AMPCAPACITY REQUIRED:		63.8
MISCELLANEOUS (KVA):		0.0																			AMPCAPACITY REQUIRED:		63.8

PANELBOARD SCHEDULE - 'LEM'																							
MAIN: 150 MCB		VOLTAGE: 208/120										PHASE: 3			WIRE: 4			MOUNTING: SURFACE		AIC:			
OKT #	TRIP	LOAD (KVA)										PHASE		LOAD (KVA)			MOUNTING: SURFACE		TRIP	OKT #			
#	POLE	DESCRIPTION	LTG	REC	MTR	A/C	HTG	KIT	MISC	A	B	C	LTG	REC	MTR	A/C	HTG	KIT	MISC	DESCRIPTION	POLE	#	
1	20/1	LIGHTS				0.9							1.5							RECEPTACLES	20/1	2	
3	20/1	LIGHTS				0.6							1.5							RECEPTACLES	20/1	4	
5	20/1	EXTERIOR LIGHTS				0.4							1.5							RECEPTACLES	20/1	6	
7	20/1	LIGHTS - BAY				0.8							0.3							WH-1	20/1	8	
9	20/1	LIGHTS - BAY				1.2							0.3							WH-2	20/1	10	
11	20/1	SPARE																		SPARE	20/1	12	
13	20/1	TELEPHONE BOARD											1.5							CORD REEL	20/1	14	
15	20/1*	COFFEE								1.5			0.2							CORD REEL	20/1	16	
17	20/1*	STOVE								0.2			0.2							CORD REEL	20/1	18	
19	20/1*	MICROWAVE								1.5			0.2							CORD REEL	20/1	20	
21	20/1*	REFRIGERATOR								1.5			0.2							CORD REEL	20/1	22	
23	20/1*	REFRIGERATOR								1.5			0.2							CORD REEL	20/1	24	
25	20/1*	REFRIGERATOR								1.5			1.2							ROLL UP DOOR	20/1	26	
27	20/1*	ICE MAKER								1.5			1.2							ROLL UP DOOR	20/1	28	
29	20/1	RECEPTACLE				1.6							1.2							ROLL UP DOOR	20/1	30	
31	20/1	SPARE											1.2							ROLL UP DOOR	20/1	32	
33	20/1	SPARE											1.2							ROLL UP DOOR	20/1	34	
35	20/1	SPARE											1.2							ROLL UP DOOR	20/1	36	
37	20/1	SPARE											1.0							RECEPTACLES	20/1	38	
39	20/1	SPARE											1.0							RECEPTACLES	20/1	40	
41	20/1	SPARE																		FACP	20/1	42	
LIGHTING (KVA):		3.9	3.9	1.6	0.0	0.0	0.0	9.2	1.5				0.0	7.7	7.2	0.6	0.0	0.0	0.0	CONNECTED LOAD (KVA):		31.7	
RECEPTACLES (KVA):		9.3																			DEMAND LOAD (KVA):		28.5
MOTORS (KVA):		7.2								PHASE A	12	98.3									CONNECTED LOAD (AMPS):		88.0
A/C (KVA):		0.6								PHASE B	12	89.2									DEMAND LOAD (AMPS):		79.0
HEATING (KVA):		0.0								PHASE C	8	66.7									DEMAND LOAD (AMPS):		79.0
KITCHEN (KVA):		9.2																			AMPCAPACITY REQUIRED:		81.8
MISCELLANEOUS (KVA):</																							



GENERAL NOTES

- A. PULL UNSWITCHED CONDUCTOR TO ALL EXIT LIGHTS.
- B. OCCUPANCY SENSORS SHALL CONTROL ALL FIXTURES IN ASSOCIATED AREAS.
- C. ROUTE CAT-5 CABLING FROM ALL LOW VOLTAGE SWITCHES BACK TO RELAY CONTROL PANEL.
- D. CEILING FANS SHALL BE 48" DIA. 4 OR 5 BLADE WITH SHORT PIPE STEMS AND CANOPY. FINISH SHALL BE MATTE WHITE. FANS SHALL BE HUNTER, FEMCO, NUTONE OR APPROVED EQUAL.
- E. PROVIDE THE FOLLOWING ITEMS ADJACENT TO MECHANICAL EQUIPMENT (FIELD VERIFY EXACT LOCATION): ONE DUPLEX RECEPTACLE, ONE LIGHT SWITCH ADJACENT TO ATTIC ACCESS PANEL, AND TWO TYPE "F" LIGHT FIXTURES MOUNTED TO STRUCTURE ABOVE. THESE ITEMS SHALL BE CIRCUITED TO 20AIP BREAKER IN PANEL LA.
- F. SEE EMERGENCY ALERT SYSTEM LIGHTING CONTROL WIRING DIAGRAM, 4E-2.1.

ELECTRICAL KEYNOTES

- L1 EMERGENCY LIGHTING RELAY. THE EMERGENCY RELAY DEVICE ALLOWS THE EMERGENCY FIXTURES TO BE CONTROLLED BY THE NORMAL POWER SWITCHING DEVICE AND ALSO ALLOWS THE FIXTURES TO ENERGIZE UPON LOSS OF NORMAL POWER REGARDLESS OF SWITCH POSITION. (TYPICAL WHERE SHOWN).
- L2 PROVIDE EMERGENCY RELAY DEVICE FOR "BY-PASS" OPERATION SUCH THAT UPON LOSS OF NORMAL POWER, SWITCH POSITION IS BY-PASSED AND EMERGENCY FIXTURE IS ENERGIZED.
- L3 PROVIDE PHOTOCELL FACING DUE NORTH CLEAR OF MAN MADE LIGHT SOURCES. J-BOX HOUSING P.E. CELL SHALL BE RECESSED. PROVIDE STAINLESS STEEL COVER PLATE. PHOTOCELL TO WORK IN CONJUNCTION WITH RELAY PANEL RPA. COORDINATE WITH PANEL MANUFACTURER.
- L4 ROUTE VIA RPA (PHOTOCELL CONTROLLED RELAY).
- L5 PROVIDE RACEWAY FOR STOP/GO LIGHTS PER MANUFACTURERS SHOP DRAWINGS. INTERLOCK WITH ROLL-UP DOOR CONTROLLER SO THAT LIGHTS BLINK RED WHEN DOOR IS OPENING AND TURN GREEN WHEN DOOR IS FULLY OPEN. COORDINATE EXACT REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN.
- L6 FIXTURE TO BE UNSWITCHED NIGHT LIGHT.

LOW VOLTAGE CONTROL NOTES:

- 1. ALL SWITCHES SHALL BE LC&D CHELSEA DIGITAL SWITCH OR APPROVED EQUAL AND HAVE ENGRAVED COVERPLATE TO DENOTE LIGHTING CONTROLLED.
- 2. LIGHTING CONTROL PANELS SHALL BE LC&D "GR 1400" SERIES OR APPROVED EQUAL.

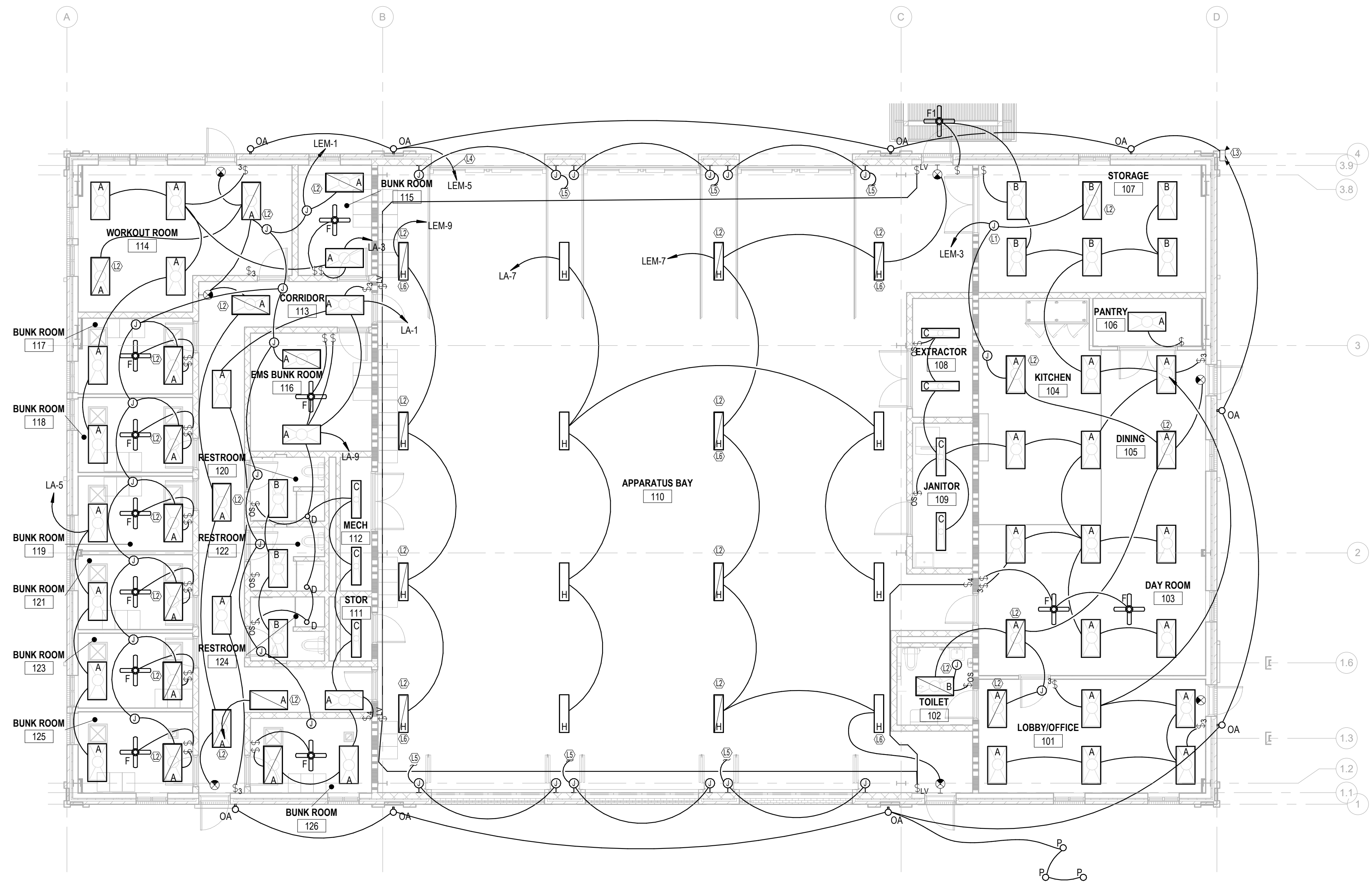
LOW-VOLTAGE SWITCH DESCRIPTIONS

6-BUTTON SWITCH FOR "ALL ON", "ALL OFF", "BAY AREA INBOARD" LIGHTS, "BAY AREA OUTBOARD" LIGHTS. PROVIDE ENGRAVED BUTTON AT SWITCH NOTING LIGHTS CONTROLLED.

LOW VOLTAGE SWITCHING SCHEDULE

RELAY	SWITCH	CIRCUIT PANELBOARD	LIGHTING CONTROLLED (AREA)
1	LVI	LA-7	BAY AREA LIGHTS (INBOARD)
2	LVI	LA-7	BAY AREA LIGHTS (OUTBOARD)
3	LVI	LEM-7	BAY AREA EMERGENCY LIGHTS (INBOARD)
4	LVI	LEM-7	BAY AREA EMERGENCY LIGHTS (OUTBOARD)
5	LVI	LEM-9	BAY AREA EMERGENCY LIGHTS (INBOARD)
6	LVI	LEM-9	BAY AREA EMERGENCY LIGHTS (OUTBOARD)
7	PHOTOCELL	**	PARKING LOT LIGHTS
8	PHOTOCELL	LEM-5	BUILDING EXTERIOR FIXTURES

REMARKS:  
L. LIGHTING CONTROL PANEL SHALL INTERLOCK WITH EMERGENCY ALERTING SYSTEM SUCH THAT BAY LIGHTS AND BUNK LIGHTS ARE ENERGIZED UPON EMERGENCY CALL. COORDINATE EXACT CONNECTION REQUIREMENTS WITH OWNER PRIOR TO BIDDING.  
\*\* STUB IN/C. OUT BUILDING FROM PANEL LA VIA RPA FOR FUTURE POLE SITE LIGHTING.



1 LEVEL 1 LIGHTING PLAN  
E201 1/8" = 1'-0"

REVISIONS

NO.	DATE	DESCRIPTION

NEW CONSTRUCTION  
ROCKDALE FIRE  
STATION 10  
ROCKDALE, GEORGIA

ROCKDALE  
FIRE  
STATION 10  
3130 GA Hwy. 138  
Conyers, GA 30013

ROCKDALE  
CO. FIRE  
DEPT.  
Fire Station No. 7  
1496 Rockbridge Road  
Conyers, GA 30012

TITLE LIGHTING PLAN

STATUS	Issue for Permit
JOB	121038.00
QC	Checker
DRAWN	Author
SHEET	E201
DATE	06/22/22

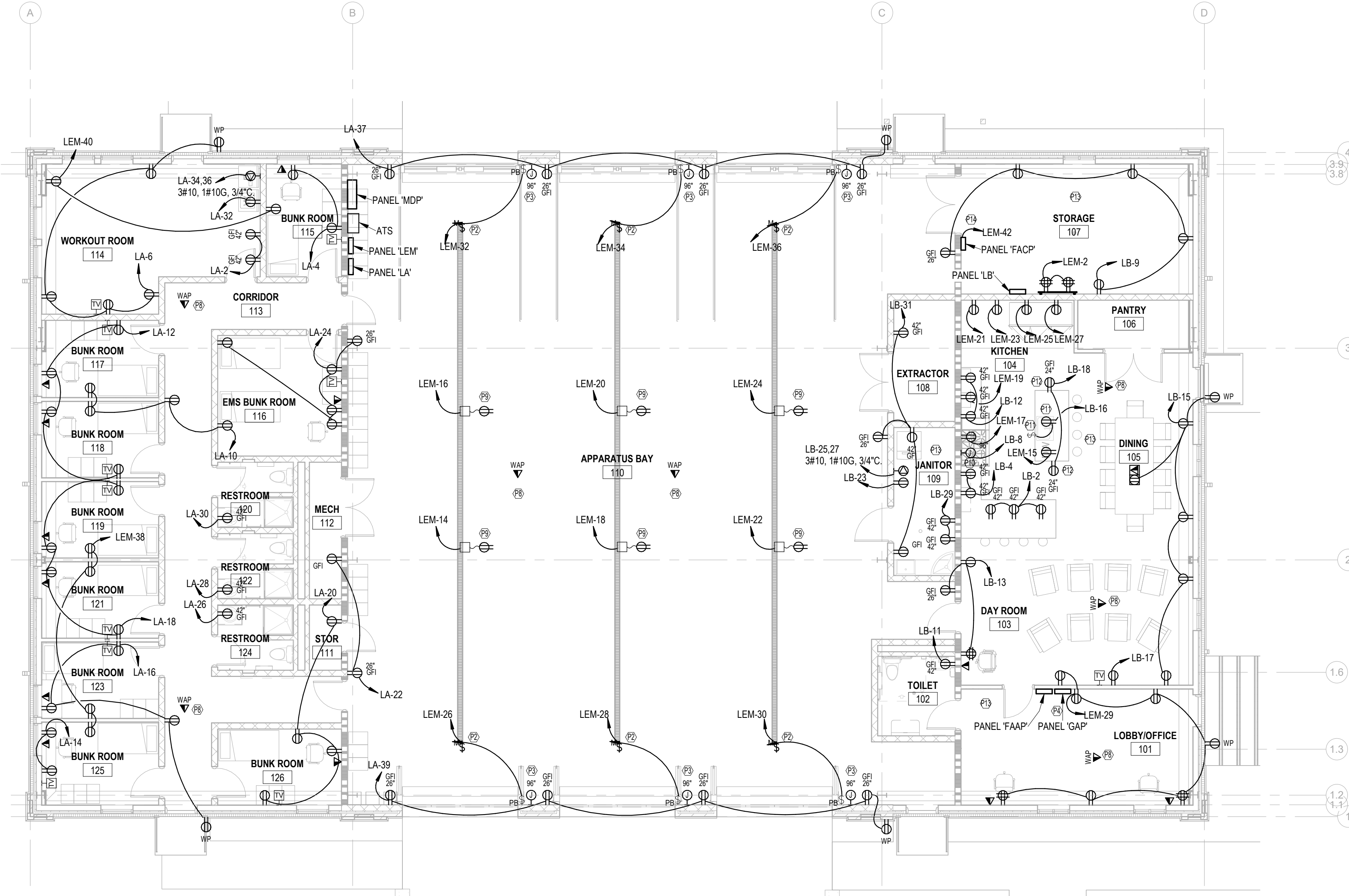


GENERAL NOTES

- A. COORDINATE FINAL RECEPTACLE AND VOICEDATA OUTLET LOCATIONS WITH ARCHITECTURAL CASEWORK AND OWNER PRIOR TO ROUGH-IN. NO EXCEPTIONS.
- B. FIRE SEAL ALL FIREWALL PENETRATIONS.
- C. ALL SOUND SYSTEM EQUIPMENT BY THE OWNER.
- D. ALL INTERFACE EQUIPMENT REQUIRED BETWEEN ROCKDALE COUNTY FIRE DEPARTMENT ALARM SYSTEM AND BUILDING ALARM NOTIFICATION SYSTEM IS BY OWNERS VENDOR.

ELECTRICAL KEYNOTES

- P2 PROVIDE 3/4" CONDUIT FROM OVERHEAD DOOR MOTOR TO DESIGNATED CONTROLS PULL BOX LOCATED ABOVE CEILING IN OFFICE 101. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
- P3 PROVIDE J-BOX FLUSH MOUNTED AT 8FT. AFF. WITH 3/4 IN. C. AND 2#14 AWGTO OVERHEAD DOOR CONTROL UNIT ABOVE CEILING FOR LIMIT SWITCH. TERMINATE FLEXIBLE CORD PROVIDED WITH DOOR AT J-BOX. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH DOOR INSTALLERS.
- P4 GENERATOR ANNUNCIATOR PANEL.
- P8 PROVIDE DATA OUTLET MOUNTED IN CEILING FOR WIRELESS ACCESS POINT.
- P9 HEAVY DUTY RETRACTABLE CORD REEL WITH 50FT. 12 GAUGE, 3 CONDUCTOR CORD AND 20 AMP CONNECTOR. REEL CRAFT "L5000" SERIES OR APPROVED EQUAL.
- P10 RESIDENTIAL RANGE HOOD CONNECTION.
- P11 SWITCH/OUTLET FOR DISPOSAL.
- P12 COORD. MOUNTING OF OUTLET WITH CASEWORK.
- P13 COORDINATE ELECTRICAL REQUIREMENTS AND EXACT LOCATION OF ALL ELECTRICAL DEVICES IN THIS AREA WITH OWNER/ARCHITECT PRIOR TO INSTALLATION.
- P14 IDENTIFY BREAKER SERVING FACP PER 2014 NEC.



1 LEVEL 1 POWER PLAN  
E301 1/8" = 1'-0"

REVISIONS

NO.	DESCRIPTION

NEW CONSTRUCTION  
ROCKDALE FIRE STATION 10  
ROCKDALE, GEORGIA

ROCKDALE FIRE STATION 10  
3130 GA Hwy. 138  
Conyers, GA 30013

ROCKDALE CO. FIRE DEPT.  
Fire Station No. 7  
1496 Rockbridge Road  
Conyers, GA 30012

TITLE POWER PLAN

STATUS Issue for Permit

JOB 121038.00

QC Checker

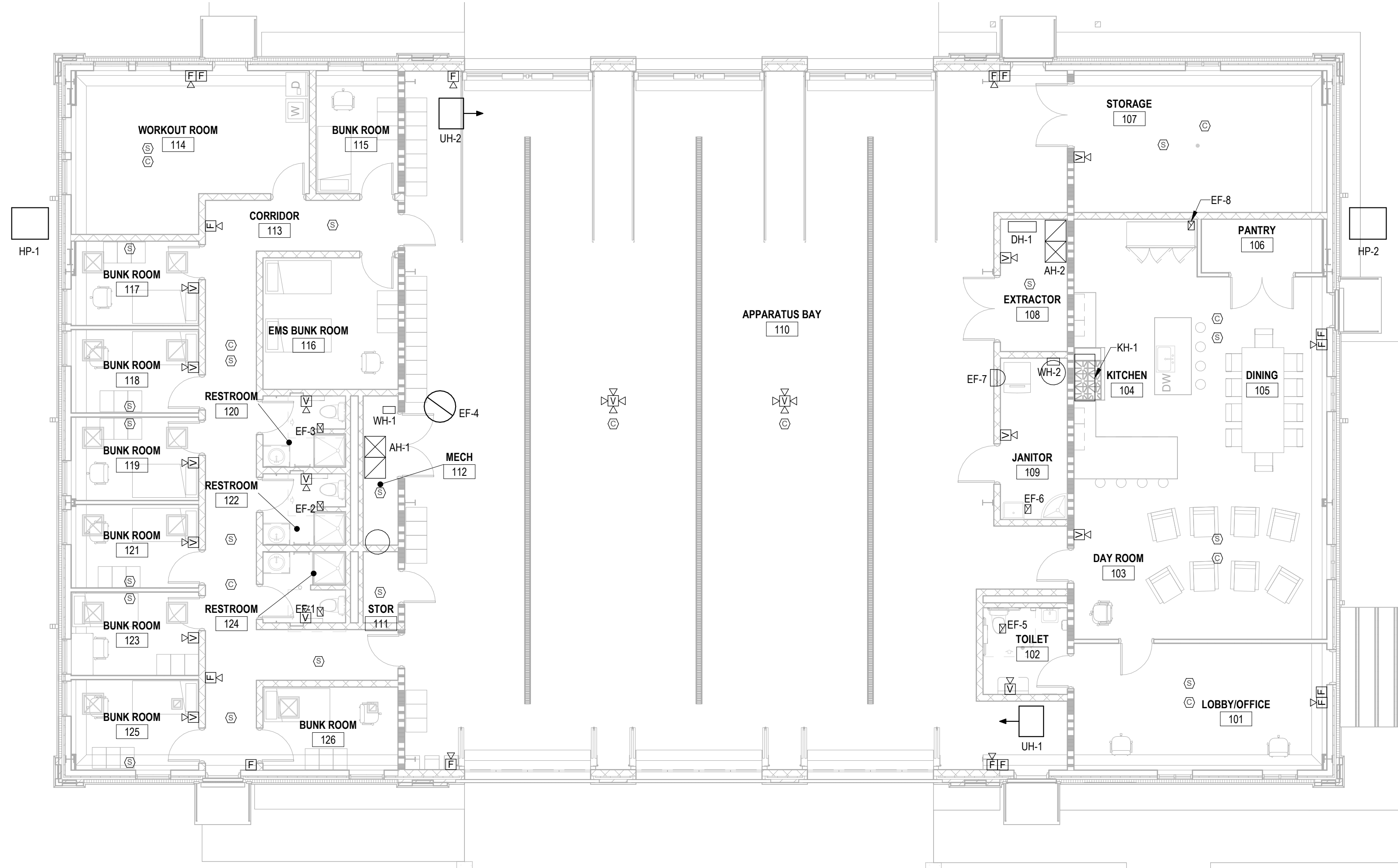
DRAWN Author

SHEET E301

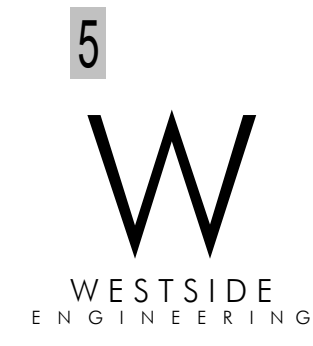
DATE 06/22/22

MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE																															
UNIT	CIRCUIT	CONDUCTORS	VOLTS	PHASE	DISCONNECT	NOTES																									
AH-1	MDP-1	2#6, #10G, 1"C.	208	1	60A/2P	2																									
AH-2	MDP-2	2#6, #10G, 1"C.	208	1	60A/2P	2																									
HP-1	MDP-5	2#6, #10G, 1"C.	208	1	60A/2P/3R																										
HP-2	MDP-6	2#6, #10G, 1"C.	208	1	60A/2P/3R																										
DH-1	LB-28	2#12, 1#12G, 3/4"C.	120	1	MOTOR RATED SWITCH	1																									
KB-1	LB-30	2#12, 1#12G, 3/4"C.	120	1	MOTOR RATED SWITCH	1																									
EF-1	W/LTS	2#12, 1#12G, 3/4"C.	120	1	MOTOR RATED SWITCH	1,4																									
EF-2	W/LTS	2#12, 1#12G, 3/4"C.	120	1	MOTOR RATED SWITCH	1,4																									
EF-3	W/LTS	2#12, 1#12G, 3/4"C.	120	1	MOTOR RATED SWITCH	1,4																									
EF-4	MDP-20	3#12, 1#12G, 3/4"C.	208	3	30A/3P/3R	1,5																									
EF-5	W/LTS	2#12, 1#12G, 3/4"C.	120	1	MOTOR RATED SWITCH	1,4																									
EF-6	W/LTS	2#12, 1#12G, 3/4"C.	120	1	MOTOR RATED SWITCH	1,3																									
EF-7	LB-34	2#12, 1#12G, 3/4"C.	120	1	MOTOR RATED SWITCH	1,6																									
EF-8	LB-32	2#12, 1#12G, 3/4"C.	120 </tr <tr> <td>UH-1</td> <td>LB-36</td> <td>2#12, 1#12G, 3/4"C.</td> <td>120</td> <td>1</td> <td>MOTOR RATED SWITCH</td> <td>1</td> </tr> <tr> <td>UH-2</td> <td>LA-41</td> <td>2#12, 1#12G, 3/4"C.</td> <td>120</td> <td>1</td> <td>MOTOR RATED SWITCH</td> <td>1</td> </tr> <tr> <td>WH-1</td> <td>LEM-8</td> <td>2#12, 1#12G, 3/4"C.</td> <td>120</td> <td>1</td> <td>MOTOR RATED SWITCH</td> <td></td> </tr> <tr> <td>WH-2</td> <td>LEM-10</td> <td>2#12, 1#12G, 3/4"C.</td> <td>120</td> <td>1</td> <td>MOTOR RATED SWITCH</td> <td></td> </tr>	UH-1	LB-36	2#12, 1#12G, 3/4"C.	120	1	MOTOR RATED SWITCH	1	UH-2	LA-41	2#12, 1#12G, 3/4"C.	120	1	MOTOR RATED SWITCH	1	WH-1	LEM-8	2#12, 1#12G, 3/4"C.	120	1	MOTOR RATED SWITCH		WH-2	LEM-10	2#12, 1#12G, 3/4"C.	120	1	MOTOR RATED SWITCH	
UH-1	LB-36	2#12, 1#12G, 3/4"C.	120	1	MOTOR RATED SWITCH	1																									
UH-2	LA-41	2#12, 1#12G, 3/4"C.	120	1	MOTOR RATED SWITCH	1																									
WH-1	LEM-8	2#12, 1#12G, 3/4"C.	120	1	MOTOR RATED SWITCH																										
WH-2	LEM-10	2#12, 1#12G, 3/4"C.	120	1	MOTOR RATED SWITCH																										

NOTES:  
1 - SEE MECHANICAL FOR EXACT CONTROL REQUIREMENTS.  
2 - PROVIDE DUCT SMOKE DETECTOR IN RETURN AIR DUCT.  
3 - PROVIDE SWITCH TO CONTROL FAN. SEE MECHANICAL FOR LOCATION. POWER FROM UNSWITCHED LIGHTING CIRCUIT.  
4 - INTERLOCK AND POWER FAN VIA LIGHTING CIRCUIT IN AREA SERVED. PROVIDE TIME DELAY RELAY AS REQUIRED.  
5 - CONTROL FAN VIA LINE VOLTAGE THERMOSTAT WITH CARBON MONOXIDE SENSOR. PROVIDE EMERGENCY OVERRIDE SWITCH TO OVERRIDE UPON DETECTION OF CARBON MONOXIDE.  
6 - CONTROL FAN VIA LINE VOLTAGE THERMOSTAT. SEE MECHANICAL FOR EXACT LOCATION



1 LEVEL 1 SYSTEMS PLAN  
E401 1/8" = 1'-0"



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REVISIONS

NEW CONSTRUCTION  
ROCKDALE FIRE  
STATION 10  
ROCKDALE, GEORGIA

ROCKDALE  
FIRE  
STATION 10  
3130 GA Hwy. 138  
Conyers, GA 30013

ROCKDALE  
CO. FIRE  
DEPT.  
Fire Station No. 7  
1496 Rockbridge Road  
Conyers, GA 30012

TITLE FIRE ALARM  
SYSTEMS PLAN

STATUS Issue for Permit

JOB 121038.00

QC Checker

DRAWN Author

SHEET E401

DATE 06/22/22

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REVISIONS

NO.	DATE	DESCRIPTION

NEW CONSTRUCTION  
ROCKDALE FIRE  
STATION 10  
ROCKDALE, GEORGIA

ROCKDALE  
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3130 GA Hwy, 138  
Conyers, GA 30013

ROCKDALE  
CO. FIRE  
DEPT.  
Fire Station No. 7  
1496 Rockbridge Road  
Conyers, GA 30012

TITLE ELECTRICAL  
SPECIFICATIONS AND  
COMCHECK

STATUS Issue for Permit

JOB 121038.00

QC Checker

DRAWN Author

SHEET E501

DATE 06/22/22

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**COMcheck Software Version 4.1.5.5**  
**Interior Lighting Compliance Certificate**

**Project Information**

Energy Code: 2015 IECC  
Project Title: Rockdale Fire Station #10  
Project Type: New Construction

Construction Site: 3130 GA Hwy, 138 Conyers, GA 30013  
Owner/Agent: Designer/Contractor:

**Additional Efficiency Package(s)**  
Credits: 1.0 Required 0.0 Proposed

**Allowed Interior Lighting Power**

A Area Category	B Floor Area (ft <sup>2</sup> )	C Allowed Watts / ft <sup>2</sup>	D Allowed Watts (B X C)
1-Fire Station	8300	0.67	5561
Total Allowed Watts = 5561			

**Proposed Interior Lighting Power**

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-Fire Station				
A: 2'x4' RECESSED TROFFER: Other:	1	47	34	1598
B: 2'x4' RECESSED LED TROFFER: Other:	1	10	39	390
C: 4' LED STRIP LIGHT: Other:	1	9	42	378
D: 6' LED COMMERCIAL DOWNLIGHT: Other:	1	3	23	69
H: LED HIGHBAY: Other:	1	16	195	3120
Total Proposed Watts = 5555				

**Interior Lighting PASSES: Design 0.1% better than code**

**Interior Lighting Compliance Statement**

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Charles Esslinger  
Name - Title Signature *CE* 05/06/2022 Date

Project Title: Rockdale Fire Station #10 Report date: 05/06/22  
Data filename: C:\Users\Chris\Dropbox (Westside Engineering)\Westside Engineering Team Folder\2022\22122 Page 1 of 5  
Rockdale Fire Station #10\Elec\22122 -rck

- SUBMITTALS:**
- SUBMIT SHOP DRAWINGS & PRODUCT INFORMATION FOR THE FOLLOWING:
    - SERVICE & DISTRIBUTION EQUIPMENT
    - PROTECTIVE DEVICES
    - LIGHTING FIXTURES AND LAMPS
    - WIRING DEVICES AND COVER PLATES
- DISTRIBUTION EQUIPMENT:**
- DISTRIBUTION EQUIPMENT; RATED FOR 240 OR 600 VAC, 60 HZ, FAULT CURRENT INTERRUPTING CAPACITY AS INDICATED, IN AMPERES, RMS, SYMMETRICAL, BUT NOT LESS THAN 10,000 AMPS, WITH SOLID NEUTRAL GROUND (S/N); ABB/GENERAL ELECTRIC (ABB-G.E.), SCHNEIDER ELECTRIC/SQUARE-D, SIEMENS-ALLIS ITC PRODUCTS, Eaton/CUTLER HAMMER.
  - DISTRIBUTION EQUIPMENT USING CIRCUIT BREAKER TYPE PROTECTIVE DEVICES; BOLTED-ON OR SQUARE D I-LINE DEVICES.
  - PANELBOARDS; FACTORY ASSEMBLED, MINIMUM WIDTH OF 20 INCHES, A MINIMUM DEPTH OF 5-3/4 INCHES, AND MINIMUM MAINS RATED 100 AMPERES, WITH POLE "SPACES"; BUSSED AND READY FOR INSTALLATION OF PROTECTIVE DEVICES. CABINETS: FULL SIZED SINGLE DOORS WITH CARBONUM PLATED COMBINATION CYLINDER LOCK AND CATCH AND TWO KEYS, "ABB/GENERAL ELECTRIC" OR EQUAL; TYPE "NLAB" W/ Q-LINE BRANCH CIRCUIT BREAKERS; TYPE "NH" WITH E-FRAME BREAKERS.
  - PANELBOARD MAINS; COPPER OR ALUMINUM WITH BRANCH CONNECTIONS IN VERTICALLY DISTRIBUTED CONSECUTIVE PHASE SEQUENCE SUCH THAT ONE OR MULTIPLE POLE BREAKERS CAN BE MOUNTED IN ANY POSITION. SOLID NEUTRAL BUS; WITH A FEEDER LUG AND WITH A SEPARATE SET-SCREW TERMINAL FOR EACH BRANCH CIRCUIT POLE.
  - PANELBOARD MOUNTING; TOP OF ENCLOSURE 78 INCHES ABOVE THE FINISHED FLOOR/GRADE, WITH THE BOTTOM OF THE CABINET NOT CLOSER THAN 6 INCHES TO THE FLOOR/GRADE, PROPERLY ALIGNED AND SUPPORTED INDEPENDENTLY OF THE CONNECTING RACEWAYS, COMPLETE INSIDE CIRCUIT DIRECTORY CARD USING A TYPEWRITER.
  - DISCONNECT SWITCHES; "HEAVY-DUTY" RATED WITH QUICK-MAKE AND QUICK-BREAK MECHANISMS. PROVIDE GROUND LUGS AND CODE REQUIRED ACCESSORIES. SWITCHES LOCATED OUTSIDE; NEMA-3R ENCLOSED TYPE WITH LOCKING HASP.
  - PROVIDE AN ENCLOSED SWITCH FOR ELECTRICALLY SERVED EQUIPMENT; PROVIDE SWITCHES & FUSES, INCLUDING HEATER ELEMENTS, RATED PER THE CHARACTERISTICS AND NAMEPLATE RATINGS OF EQUIPMENT IN ACCORDANCE WITH CODE REQUIREMENTS, MANUFACTURER'S RECOMMENDATIONS AND CHARTS. PROVIDE SWITCHES WITH CODE REQUIRED ACCESSORIES.
  - FUSED SWITCHES IN BRANCH CIRCUITS; NON-RENEWABLE CARTRIDGE FUSES RATED 250 OR 300 VAC OR 600VAC AS FOLLOWS:
    - SIZES 1 - 200 AMPS: DUAL ELEMENT, CURRENT LIMITING FUSES, CLASS "RK-1", OR "RK-5", SELECTED TO PROVIDE STARTING AND LIMIT LET-THRU CURRENT.
    - OTHER RATINGS, SIZES OR SPECIAL APPLICATIONS AS INDICATED.
  - STATIONARY FRACTIONAL HORSEPOWER MOTORS NOT PROVIDED WITH INTEGRAL MOTOR RUNNING OVERLOAD PROTECTION, OR INHERENTLY PROTECTED BY DESIGN; SWITCHED BY A FRACTIONAL HORSEPOWER STARTER PROVIDING SUPPLEMENTARY PROTECTION.
  - STARTERS AND DISCONNECT SWITCHES; ENCLOSED QUICK-MAKE AND QUICK-BREAK MECHANISMS.
  - BRANCH CIRCUIT BREAKERS; MOLDED CASE, AUTOMATIC TRIPPING TYPE, BOLT-ON OR I-LINE CONSTRUCTION, MINIMUM FRAME SIZE OF 100 AMPS AND A MINIMUM TRIP SIZE OF 15 AMPS, CALIBRATED FOR 40°C. PROVIDE SUITABLE TYPE BREAKERS SERVING HIGH INRUSH CIRCUITS FOR INCANDESCENT LIGHTING.
  - GROUP SINGLE-POLE BREAKERS USED FOR MULTI-WIRE CIRCUITS CONSECUTIVELY ON THE SAME SIDE OF THE CABINET.
- CONDUCTORS:**
- CONDUCTORS; SOFT DRAWN, ANNEALED COPPER WITH CONDUCTIVITY OF NOT LESS THAN 98 ASTM STANDARDS.
  - CONDUCTOR SIZE NUMBERS; AMERICAN WIRE GAUGE (AWG. SYSTEM, STANDARD TRADE SIZES).
  - CONDUCTORS; COLOR CODED PER CODE AND UTILITY CO.
  - CONDUCTORS:
    - No.10 AWG SIZE AND SMALLER; SOLID OR STRANDED.
    - No.8 AWG SIZE AND LARGER; STRANDED. STRANDED CONDUCTORS; CLASS "B" OR "C".
    - CONTROL CIRCUITS; MINIMUM AWG No.14.
    - POWER AND LIGHTING BRANCH CIRCUITS; AWG # 12 FOR GENERAL CIRCUITS NOT REQUIRING DERATING OR SIZE INCREASE TO REDUCE VOLTAGE DROP.
  - USE A SEPARATE LUG FOR EACH CONDUCTOR WHERE MULTIPLE CONDUCTORS ARE CONNECTED TO THE SAME ELECTRICAL TERMINAL POSITION
  - BRANCH CIRCUIT CONDUCTORS; UNSPLICED EXCEPT WHERE CIRCUITS ARE SHOWN TO DIVIDE BY THE PLANS.
  - GENERAL WIRING CONDUCTORS OPERATING AT 600 VOLTS AND BELOW; RATED 60 HERTZ, 600 VOLTS, WITH 75°C OR 90°C INSULATION AS FOLLOWS:
    - FEEDER CONDUCTORS: RATED FOR WET LOCATIONS OF "THW", "THWN" OR "XHHW".
    - BRANCH CONDUCTORS: RATED FOR:
      - WET LOCATIONS, OR LOCATIONS LOCATED BELOW GRADE OR ENCASED IN SLAB ON GRADE, OF "THW", "THWN" OR "XHHW".
      - DRY LOCATIONS OF "THW", "THWN", "XHHW" OR "THHN".
    - RATED LIGHTING CONDUCTORS FOR CIRCUITS REQUIRING 90°C RATING; "THHN" OR "XHHW", OR OTHER APPROVED TYPE.
    - JOINTS ON CONDUCTORS RATED ABOVE 75°C; TAPED OR MADE-UP WITH MATERIALS HAVING A SUITABLE HIGH TEMPERATURE RATING.
- RACEWAYS:**
- INSTALL WIRING IN METALLIC, RIGID TYPE RACEWAYS ABOVE ACCESSIBLE CEILINGS. MC CABLE SHALL BE PERMITTED TO BE USED IN NON-ACCESSIBLE AREAS.
  - RUN RACEWAYS AND CABLE CONCEALED, EXCEPT RACEWAYS IN EQUIPMENT ROOMS RUN EXPOSED.
  - RACEWAYS IN ORDINARY LOCATIONS:
    - INSIDE (NOT IN WET OR DAMP LOCATIONS OR EXPOSED TO MECHANICAL INJURY); STEEL, ELECTRICAL METALLIC TUBING (EMT) OR MC CABLE.
    - EXPOSED OUTSIDE, THROUGH OUTSIDE WALL OR ROOF, OR THROUGH TWO-HOUR OR MORE RATED FIRE BARRIERS; GALVANIZED RIGID STEEL (GRS) CONDUIT MADE UP WATER TIGHT.
    - FINAL CONNECTION IN DRY LOCATIONS SERVING LIGHTING FIXTURES; FLEXIBLE METAL CONDUIT OR FLEXIBLE METALLIC TUBING.
    - CONNECTIONS TO MOTORS, OR TO COMPONENTS IN WET OR DAMP LOCATIONS, LIQUIDTIGHT FLEXIBLE METAL CONDUIT (LT FLEX).
  - RIGID STEEL GRS, AND STEEL IMC; HOT DIP GALVANIZED
  - STEEL EMT; HOT DIP GALVANIZED OUTSIDE, AND ENAMEL OR GALVANIZED FINISHED INSIDE.
  - EMT COUPLINGS AND CONNECTORS; METAL AS FOLLOWS:
    - RANTIGHT, HEX-NUT, EXPANSION-GLAND COMPRESSION STEEL, FOR ANY WET OR DAMP LOCATION OR FEEDER (OR SUB-FEEDER).
    - SET-SCREW OR TAP-ON, STEEL OR CAST METAL, FOR DRY LOCATIONS.
  - CIRCULAR RACEWAYS; MINIMUM TRADE SIZE AS FOLLOWS:
    - 1/2-INCH; GENERAL
    - 3/4-INCH; "HOMERUN" CIRCUIT WIRING;
    - MORE THAN (3) CONDUCTORS.

- SIZE RACEWAYS TO ACCOMMODATE THE ENCLOSED CONDUCTORS.
  - PROVIDE JUNCTION OR PULL BOXES TO AVOID EXCESSIVE RUNS OR BENDS BETWEEN OUTLETS, AND AT LOW POINTS IN RACEWAY RUNS.
  - SUPPORT CONCEALED CONDUIT ABOVE THE CEILING INDEPENDENTLY OF CEILING CONSTRUCTION. INSTALL CONDUITS HIGH ABOVE LAY-IN CEILINGS TO PERMIT REMOVAL OF CEILING PANELS OR EQUIPMENT.
  - INSTALL EXPOSED RACEWAYS PARALLEL OR PERPENDICULAR TO STRUCTURAL MEMBERS AND ARCHITECTURAL FEATURES. INSTALL CONCEALED CONDUIT RACEWAYS WITH AS FEW BENDS AS FEASIBLE, COORDINATED WITH STRUCTURAL, MECHANICAL AND ARCHITECTURAL REQUIREMENTS. ROUTE RACEWAYS TO AVOID "TRAPPING" WHERE PRACTICABLE.
- ENCLOSURES AND BOXES:**
- EQUIPMENT ENCLOSURES, BOXES, & COVERS; GALVANIZED STEEL, MALLEABLE IRON, GRAY IRON, OR COPPER-FREE ALUMINUM. SCREWS; STAINLESS STEEL; ALUMINUM FOR ALUMINUM BOXES.
  - ENCLOSURES:
    - FLUSH MOUNTED WITH CONCEALED RACEWAYS OR FLUSH MOUNTED DEVICES.
    - SURFACE MOUNTED TYPE IN EQUIPMENT ROOMS, WITH EXPOSED RACEWAYS AND OTHER SURFACE MOUNTED DEVICES.
  - BOXES FOR USE WITH GENERAL RACEWAY SYSTEMS; 4 INCHES SQUARE OR OCTAGONAL SIZE, NOT BE LESS THAN 1-1/2 INCHES DEEP, EXCEPT WHERE SHALLOWER BOXES ARE REQUIRED BY STRUCTURAL CONDITIONS. 4 BY 2 INCH BOXES; WHERE ONLY ONE RACEWAY ENTERS AN OUTLET BOX, OR WHERE NEEDED TO MATCH DEVICES AND/OR MOUNTING HARDWARE.
  - BOXES FOR RACEWAY SYSTEMS SERVING CEILING "POWER" GRID SYSTEMS OR LIGHTING FIXTURES; SIZE 4-11/16 INCH SQUARE BOXES, 42 CU. IN. USE EXTENSION RINGS OR LARGER BOXES IF NECESSARY TO MEET CU. IN. CAPACITY REQUIRED BY CODE.
  - ENCLOSURES AND BOXES; VOLUME AND REQUIRED WIRE BENDING AND GUTTER SPACE AND FEATURES TO SUIT CODE REQUIREMENTS.
  - DO NOT INSTALL BOXES BACK-TO-BACK. DO NOT USE THRU-WALL TYPE BOXES. SEPARATE BOXES IN THE SAME FIRE RATED WALL BY EITHER SOLID STUDS, OR A MINIMUM DISTANCE ESTABLISHED BY LOCAL BUILDING OFFICIALS; SEAL CONNECTING CONDUIT TO PREVENT THE TRANSMISSION OF HEAT, SMOKE, AND NOISE, WITH SEALING METHOD AS APPROVED BY THE FIRE MARSHAL.
  - DO NOT USE SUSPENDED CEILING CONSTRUCTION TO SUPPORT RACEWAYS, BOXES OR OTHER ITEMS, EXCEPT AS ALLOWED BY CODE AND ACCEPTED BY THE ARCHITECT IN WRITING.
- DEVICES:**
- SWITCHES; STANDARD LINE STYLE, MAINTAINED, 15 OR 20 AMPS, 120-277 VAC, QUIET OPERATING, FLUSH MOUNTING, BY LEVITON, "SPEC-MASTER, COMMERCIAL SPEC. GRADE" SERIES, HUBBELL OR ARROW HART.
  - RECEPTACLES; STANDARD LINE STYLE, STRAIGHT BLADE, 2-POLE, 3-WIRE GROUNDING TYPE, RATED 125 VAC, 15 OR 20 AMPS, BY LEVITON, "SPECMASTER, COMM. SPEC. GRADE" SERIES, HUBBELL OR ARROW HART.
  - DIMMER SWITCHES; RATED FOR FULL RANGE DIMMING OF 120 VAC LOADS, EITHER FLUORESCENT OR INCANDESCENT, KNOB OR SLIDE CONTROLLED W/ FULL OFF POSITION, FLUSH MOUNTABLE IN STANDARD 1-GANG OR 2-GANG BOXES, ARCHITECTURAL STYLE, THIN PROFILE TYPES, BY LEVITON, "COMM. SPEC. GRADE" SERIES, LUTRON OR LITHONIA.
  - GROUND FAULT CIRCUIT INTERRUPTED (GFCI) RECEPTACLES; UL LISTED FOR PERSONNEL PROTECTION AGAINST LINE-TO-GROUND SHOCK HAZARD, GFCI RECEPTS; DUPLEX, "DECORA STYLE" BY LEVITON, "COMM. SPEC. GRADE", HUBBELL OR ARROW HART.
  - KEYLESS LAMPHOLDER: WHITE PORCELAIN, 660 WATTS AT 250 VOLTS; LEVITON, CAT. No. 9875-2.
  - LOW VOLTAGE SWITCHES & COMPONENTS: ABB/GENERAL ELECTRIC, 24-VOLT SYSTEM.
  - COVER PLATES: FOR FLUSH, INSIDE, WALL MOUNTED DEVICES; LEVITON.
  - MOUNT DEVICES RECESSED FOR FLUSH INSTALLATION. PROVIDE COVER PLATES FOR EACH DEVICE.
  - ALIGN DEVICES AT DIFFERENT LEVELS VERTICALLY. GROUP DEVICES AT THE SAME LEVEL USING SECTIONAL GANG BOXES. CENTER DEVICES IN ARCHITECTURAL FEATURES.
  - LOCATE WALL SWITCHES ON THE STRIKE SIDE OF A DOOR, SIX (6) INCHES FROM THE OPENING.
  - MOUNT SMALL FLUSH MOUNTED MOTOR DEVICES IN STANDARD DEVICE BOXES.
  - INSTALL WIRING DEVICES WITH TOP-OF-BOX MOUNTING HEIGHTS ABOVE FINISHED FLOORS BETWEEN 18 INCHES AND 48 INCHES, AS REQUIRED BY HANDICAPPED CODES.
  - COVER PLATES FOR FLUSH, DRY, ORDINARY LOCATIONS; STANDARD SIZE ONE PIECE. WIRING DEVICES AND COVER PLATE FINISHES; AS INDICATED BY THE PLANS.
- LIGHTING:**
- PROVIDE ALL LAMPS AT 3500K, UNLESS NOTED OTHERWISE.
  - FIXTURE CRI SHALL MEET OR EXCEED THAT SPECIFIED IN FIXTURE SCHEDULE INCLUDED WITHIN CONTRACT DOCUMENTS. WHERE NO CRI IS SCHEDULED, CRI SHALL BE 80 OR GREATER.
  - ALL LED DRIVERS SHALL HAVE AN OPERATING EFFICIENCY OF AT LEAST 85%, MINIMUM STARTING TEMPERATURE OF AT LEAST -40DEGREES CELSIUS, VOLTAGE INPUT/PHASE AS SPECIFIED IN FIXTURE SCHEDULE.
  - ALL LED FIXTURES SHALL COME EQUIPPED WITH INTEGRAL HEAT DISSIPATION SYSTEMS.
  - LED FIXTURES SHALL HAVE LED SOURCES AND DRIVERS THAT ARE ACCESSIBLE FROM THE EXPOSED SIDE OF THE FIXTURE AND DO NOT REQUIRE REMOVAL OF FIXTURE FOR LED SOURCE AND/OR DRIVER REPAIR/REPLACEMENT.
  - FLUORESCENT BALLASTS; HIGH POWER FACTOR (HPF) TYPE, CLASS "P" PROTECTED, SOUND RATING "A", AND ENERGY SAVING TYPE.
  - FLUORESCENT BALLASTS FOR THE MINI-LAMPS; UL L. LABELED OR ACCEPTABLE TO BUILDING OFFICIALS, ENCAPSULATED, QUIET OPERATING DESIGN IF AVAILABLE.
  - ORIENT FLUORESCENT LAMPS WITHIN THE SAME VISUAL SPACE IN THE SAME DIRECTION.
- GROUNDING:**
- GROUND ELECTRICAL SYSTEMS, EQUIPMENT, AND SUPPORTING STRUCTURES. PROVIDE BONDING JUMPERS WHERE NECESSARY, MECHANICALLY AND ELECTRICALLY SECURE METAL RACEWAYS AND FITTINGS, JOINTS AND CONNECTIONS AT EQUIPMENT TO PROVIDE AN GROUNDING MEANS. METAL RACEWAYS; ELECTRICALLY CONTINUOUS THROUGHOUT THEIR LENGTH FOR AN EFFECTIVE GROUNDING PATH TO THE POWER SERVICE DISCONNECT SWITCH.
  - INSTALL GROUNDING CONDUCTORS WITHOUT JOINT OR SPLICE TO THE GREATEST PRACTICAL EXTENT.
  - PROVIDE FOR EACH RACEWAY A GREEN #12 GROUNDING CONDUCTOR IN ADDITION TO BRANCH CONDUCTORS INDICATED.
  - DO NOT SPLICE MAIN BONDING JUMPER. CONFIRM THAT A MAIN BONDING JUMPER IS PROVIDED AT THE POINT OF SERVICE ONLY.
- TESTING:**
- TEST INDIVIDUAL SYSTEMS AND COMPONENTS FOR FULL FUNCTIONAL REQUIREMENTS. PERFORM TESTS AS REQUIRED BY CODE, LOCAL PRACTICES, OR AS REASONABLY REQUIRED BY THE OWNER'S REPRESENTATIVE WHERE A QUESTION ARISES AS TO THE PROPER INSTALLATION OR OPERATION OF MATERIALS.
  - PROVIDE TESTING INSTRUMENTS, PROCEDURES, AND DOCUMENTATION.