

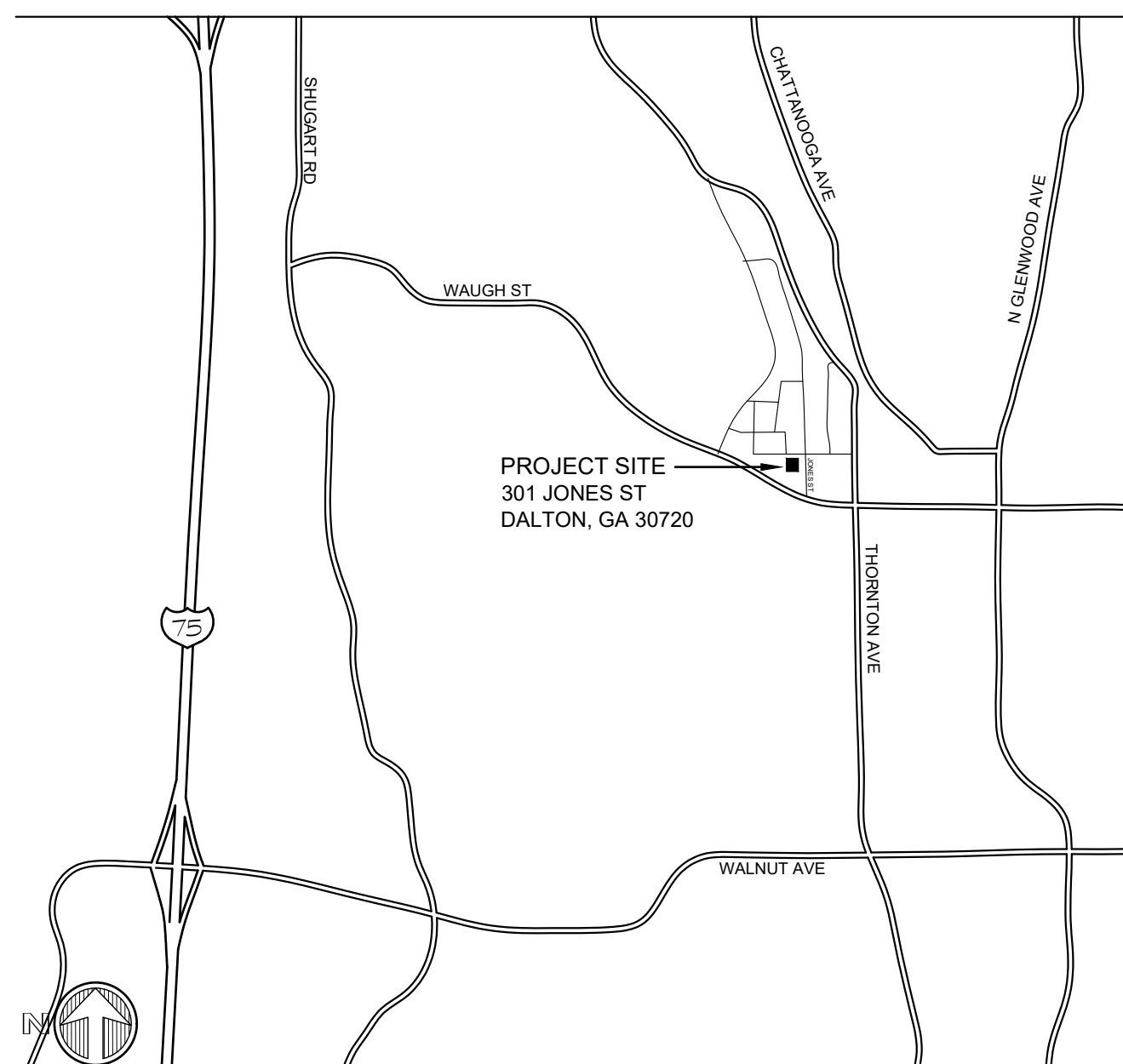
# A NEW BUILDING FOR DALTON POLICE DEPARTMENT

301 JONES ST,  
DALTON, GA 30720

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### SITE LOCATION MAP



### BUILDING INFORMATION

<b>OWNER:</b>	POLICE SERVICES CENTER 301 JONES ST, DALTON, GA. 30720
<b>CONSTRUCTION TYPE:</b>	IBC-TYPE II B
<b>OCCUPANCY TYPE:</b>	BUSINESS
<b>NUMBER OF STORIES:</b>	TWO
<b>BUILDING SPRINKLERED:</b>	YES
<b>BUILDING SQUARE FOOTAGE:</b>	4,279 S.F. GROSS MAIN LEVEL 2,983 S.F. GROSS UPPER LEVEL 7,262 S.F. GROSS TOTAL

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### CODE INFORMATION

ALL WORK IN RENOVATED AREAS SHALL BE IN COMPLIANCE WITH THE FOLLOWING CODES:

2018 LIFE SAFETY CODE (LSC) - INCLUDING THE GA 120-3-3 RULES & REGULATIONS OF THE STATE FIRE COMMISSIONER

2018 INTERNATIONAL BUILDING CODE (IBC) - 2020 GEORGIA AMENDMENTS

2018 INTERNATIONAL FIRE CODE (IFC)

2018 INTERNATIONAL MECHANICAL CODE (IMC) - 2020 GEORGIA AMENDMENTS

2018 INTERNATIONAL PLUMBING CODE (IPC) - 2020 GEORGIA AMENDMENTS

2018 INTERNATIONAL FUEL GAS CODE - 2020 GEORGIA AMENDMENTS

2020 NATIONAL ELECTRIC CODE (NEC)

2015 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) - 2020 GEORGIA AMENDMENTS

2010 A.D.A. STANDARDS FOR ACCESSIBLE DESIGN - INCLUDING GA. ACCESSIBILITY STANDARDS 120-3-20

ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND REGULATIONS



#### ARCHITECTURAL

KRH ARCHITECTS, INC.  
855 ABUTMENT RD., STE. 4  
DALTON, GA 30721  
TEL. 706.529.5895

#### CIVIL

PWH ENGINEERING, INC.  
2900 DELK RD., STE. 700 #318  
MARIETTA, GA 30067  
TEL. 770.433.8190

#### STRUCTURAL

WILLIAM J. PELTIER AND ASSOCIATES  
270 LANGLEY DR.  
LAWRENCEVILLE, GA 30046  
TEL. 770.963.0654

#### MECHANICAL

JORDAN MEP  
225 REFORMATION PKWY., STE 200  
CANTON, GA 30114  
TEL. 770.751.0773

#### ELECTRICAL

LUNDY ENGINEERING GROUP, LLC.  
229 LAND ROAD  
WALESKA, GA 30183  
TEL. 678. 634. 6941

#### PROJECT NUMBER

23-021

#### FACILITY CODE

-

#### DRAWING REVISIONS

NO.	TYPE	DATE

- PRELIMINARY REVIEW
- CHECKSET REVIEW
- FINAL SET REVIEW
- FOR CONSTRUCTION

#### DATE

12/01/23

#### SHEET INDEX

T1.1







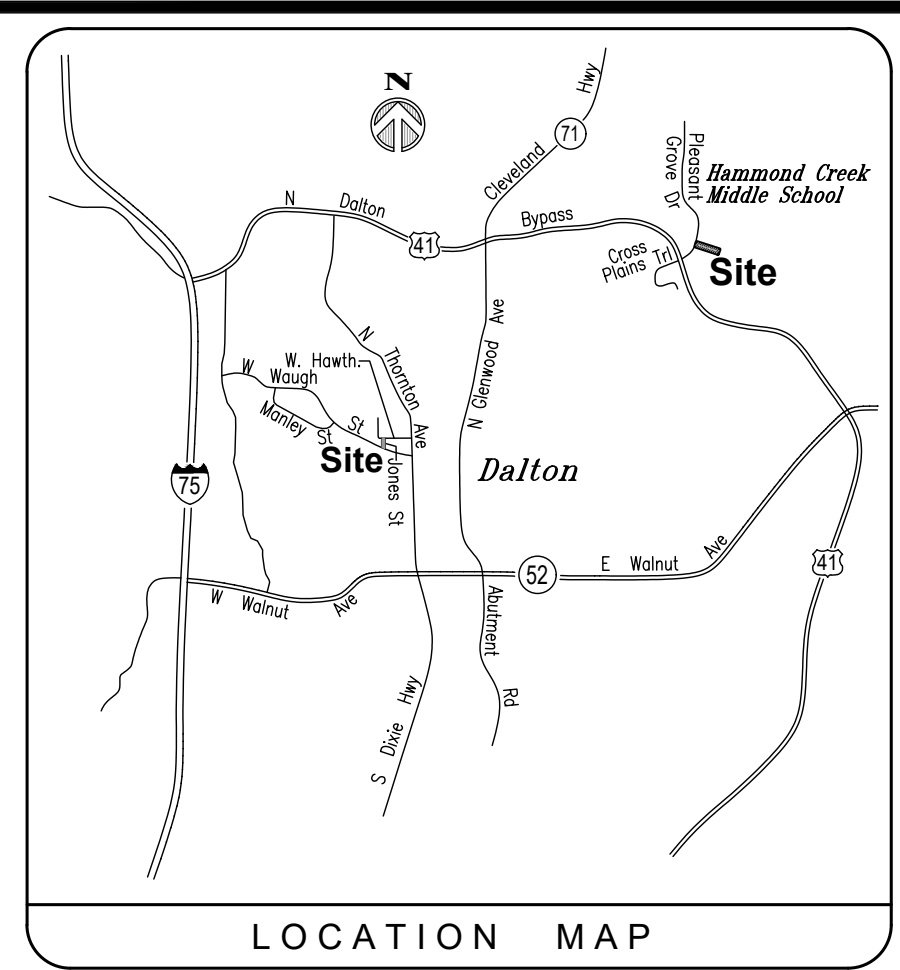
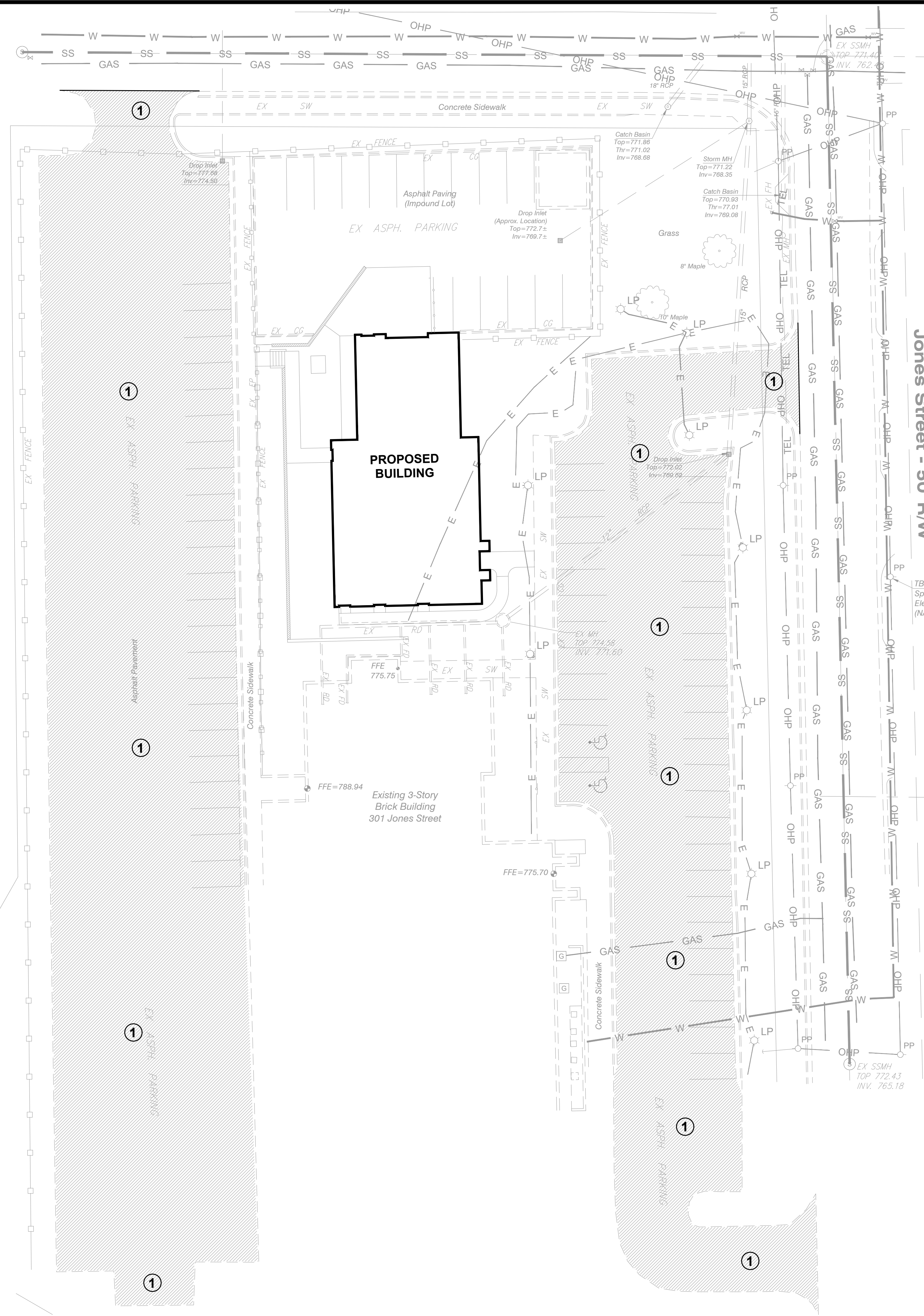
**LEGEND:**

① VERIFY EXISTING UTILITIES AND PAVEMENT DEPTHS PTC. TO AVOID CONFLICTS. MILL AND REMOVE 2.0" OF EXISTING ASPHALT/CONCRETE AND HAUL OFF SITE. VERIFY EXISTING BASE MATERIAL AND SUBGRADE PER GEOTECHNICAL ENGINEER (GEOTECH) TO MEET SPECIFICATIONS. TRIM EXCESS MATERIAL AND HAUL OFF SITE. REPAIR ALL DEFECTS IN BASE OR SUBGRADE TO MEET SPECIFICATIONS PER GEOTECH. PREPARE AREA TO BE PAVED FOR OVERLAY PER SPECIFICATIONS AND GDOT STANDARDS. INSTALL 2.0" 9.5mm SUPERPAVE ASPHALTIC CONCRETE PER GDOT CURRENT SPECIFICATIONS.

**PHASING:**  
 ALL WORK IN THIS SCOPE TO BE DONE AFTER ALL OTHER SITE IMPROVEMENTS ARE FULLY COMPLETED, ACCEPTED, AND APPROVED BY OWNER AND LOCAL AUTHORITIES. COORDINATE WITH OWNER EACH AREA PRIOR TO CONSTRUCTION. PAVEMENT CONSTRUCTION SHALL NOT EXCEED 25% OF ANY ONE CONTIGUOUS AREA AT A TIME, AND ALL WORK AREAS MUST BE COMPLETED PRIOR TO THE START OF A NEW AREA. ENTRANCES MUST BE COMPLETED WITHIN 48 HOURS OF START OF CONSTRUCTION. NO MORE THAN ONE ENTRANCE AT A TIME MAY BE DISTURBED. PROVIDE ALL (TC) TRAFFIC CONTROL FOR EACH AREA AND COORDINATE TRAFFIC ISSUES WITH OWNER'S REP DAILY. DO NOT INTERRUPT OR IMPACT OWNER'S DAILY OPERATIONS.

**PAVING NOTES:**

- REFER TO SPECIFICATIONS FOR FURTHER DETAILS AND REQUIREMENTS.
- ALL CONNECTIONS TO EXISTING ASPHALT SHALL BE SAWCUT. ALL CONNECTIONS TO EXISTING PAVEMENT(S) SHALL MATCH EXISTING PAVEMENT(S) FINISH ELEVATION.
- ALL NEW PAVEMENT CONSTRUCTION, RECLAMATION, REPAIR OR OVERLAY FINISH ELEVATION SHALL MATCH EXISTING FINISH ELEVATION FOR ALL STRUCTURES, INCLUDING BUT NOT LIMITED TO: RAMPS OR OTHER FLUSH TRANSITIONS, GUTTER, MANHOLES, STORM INLETS, FRAMES, UTILITY BOXES, CLEANOUTS, OR OTHER STRUCTURES.
- ALL SOFT OR UNSUITABLE AREAS OF BASE MATERIAL OR SUBGRADE AS DETERMINED BY GEOTECHNICAL ENGINEER MUST BE REPAIRED TO MEET GEOTECHNICAL ENGINEER STANDARDS PRIOR TO PROCEEDING WITH THE WORK.
- CONTRACTOR SHALL REVIEW AND VERIFY WITH OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE IN THE FIELD PRIOR TO BIDDING THE EXTENT(S) OF EACH AREA SHOWN ON THE PLANS FOR EACH SCOPE OF WORK. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF AREA(S) FOR EACH SCOPE OF WORK PRIOR TO BIDDING.
- ALL EXISTING SIGNAGE, STRIPING OR OTHER PAVEMENT MARKING SHALL BE RESTORED TO MATCH EXISTING PER GADOT AND PROJECT SPECIFICATIONS. CONTRACTOR TO DOCUMENT EXISTING STRIPING PRIOR TO CONSTRUCTION (PTC). SUBMIT STRIPING / MARKING PLAN FOR APPROVAL.
- ALL AREAS TO RECEIVE PAVEMENT SHALL BE THOROUGHLY CLEANED AND PREPPED PER GADOT STANDARDS AND SPECIFICATIONS PRIOR TO PAVEMENT INSTALLATION. ALL JOINTS AND CRACKS SHALL BE SEALED PER CURRENT GDOT SECTION 407 SPECIFICATIONS AND AS NOTED ABOVE PRIOR TO ASPHALT INSTALLATION.
- REMOVE ALL FOREIGN OBJECTS OR UNSUITABLE MATERIALS FOR FULL PAVEMENT SECTION DEPTH, INCLUDING BUT NOT LIMITED TO: GATE POST STUBS, EXPOSED CONDUITS, DEAD METER VALVES, OUT OF SERVICE UTILITY BOXES, DEAD LINES OR CLEANOUTS, OR ANY OTHER OBJECTS WHICH ARE NOT PART OF THE STANDARD PAVEMENT SECTION. ALL DEPRESSED AREAS MUST BE BROUGHT BACK TO ADJACENT FINISH GRADE(S) WITH DEFECTIVE PAVEMENT REMOVED, AND STANDARD PAVEMENT SECTION INSTALLED. MAINTAIN MINIMUM 1.0% (1 FT. / 100 FT.) POSITIVE SLOPE FOR DRAINAGE



**LEGEND**

--- EXISTING	+ 70.93 EXISTING SPOT ELEVATION
- - - PROPOSED	• 54.3 PROPOSED SPOT ELEVATION

AC-ACRES	PB-PLAT BOOK
BC-BACK OF CURB	PC-PAGE
BL-BUILDING SETBACK	PL-PROPERTY LINE
CB-CATCH BASIN	POB-POINT OF BEGINNING
CC-CURB & GUTTER	PP-POWER POLE
CH-CHORD	PS-PARKING SPACE
CL-CENTERLINE	PTC-PRIOR TO CONSTRUCTION
CMP-CORR. METAL PIPE	R-RADIUS
DB-DEED BOOK	RCP-REINFORCED CONC. PIPE
DE-DRAINAGE EASEMENT	RD-ROOF DRAIN
DI-DROP INLET	RR-RAILROAD
EP-EDGE PAVEMENT	R/W-RIGHT OF WAY
EX-EXISTING	SD-STORM DRAIN
FH-FIRE HYDRANT	SF-SQUARE FEET
G-GAS LINE	SS-SANITARY SEWER
HW-HEADWALL	SSE-SAN. SEWER EASEMENT
HD-HEAVY DUTY	SSMH-SAN. SEWER MANHOLE
IPP-IRON PIN PLACED	SW-CONCRETE SIDEWALK
IPF-IRON PIN FOUND	TB-THRUST BLOCK
JB-JUNCTION BOX	TBR-TO BE REMOVED
L-ARC LENGTH	TC-TOP OF CURB
LOC-LIMIT OF CLEARING	TEL-TELEPHONE
LP-LIGHT/LAMP POST	TR-TO REMAIN
MH-MANHOLE	TW-TOP OF WALL
N/F-NOW OR FORMERLY	W-WATER
OHP-OVERHEAD POWER	WV-WATER VALVE

**GENERAL NOTES:**

1. SEE SHEET C2.1 FOR IMPORTANT NOTES.

PROJECT NUMBER 23-021  
 DATE 12/01/23  
 REVISIONS NO. DATE  
 FACILITY CODE  
 KRH ARCHITECTS INCORPORATED  
 855 ABUTMENT ROAD SUITE FOUR DALTON, GA 30721 TEL. 706.529.5895  
 CIVIL ENGINEERING SITE DEVELOPMENT  
 2900 DELAWARE AVE STE 700 #318 • MARIETTA, GA 30067 • PH: 770-433-6190  
 301 JONES STREET DALTON, GA 30720 WHITFIELD COUNTY, GA  
 ISSUE DATE: 02-15-24  
 JOB No. 22280 SCALE: 1" = 20'

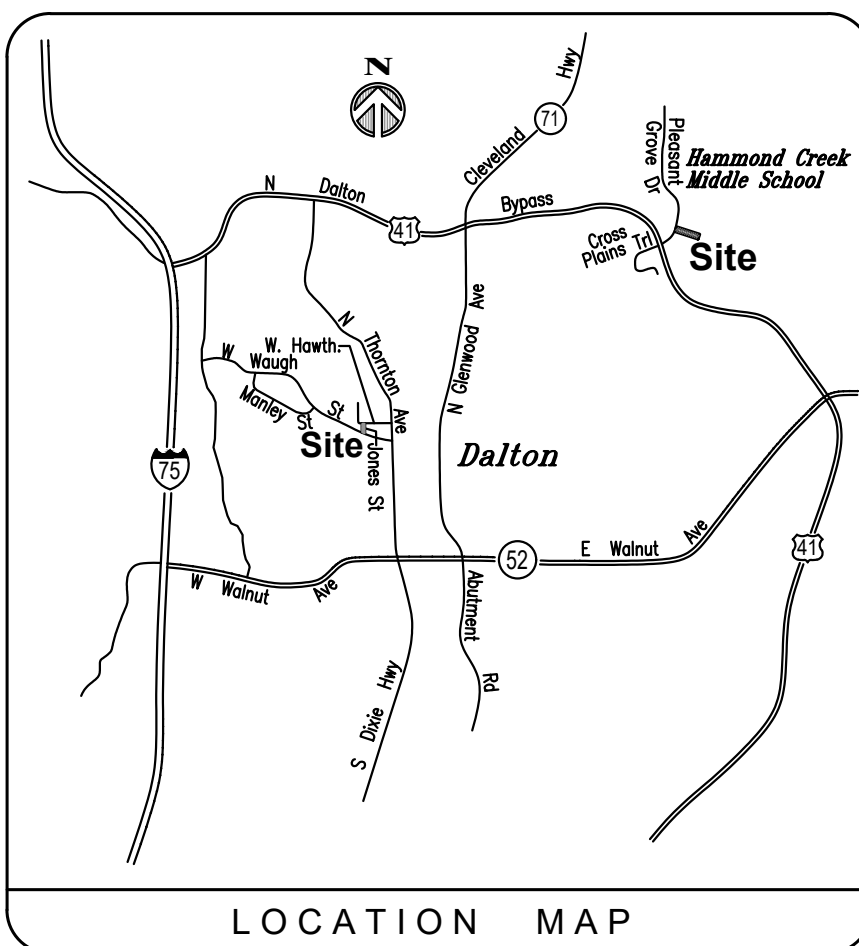
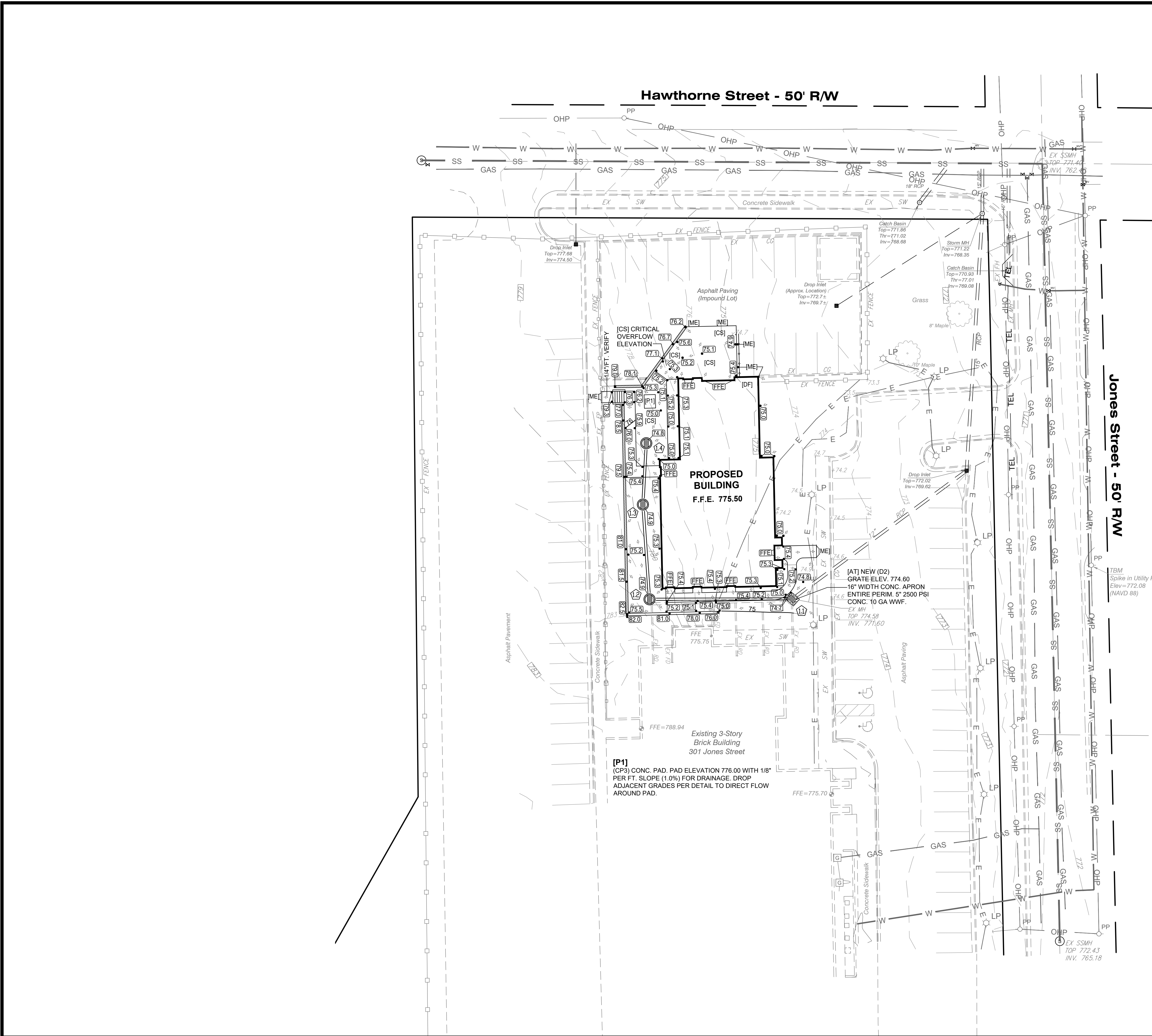
A NEW BUILDING FOR:  
 DALTON POLICE DEPARTMENT  
 WHITFIELD COUNTY  
 DALTON, GA 30720

REGISTERED PROFESSIONAL ENGINEER  
 PRESTON W. HOBBS  
 No. 2255  
 GEORGIA  
 GSWCC LEVEL II - 0000008686

811 Know what's below. Call before you dig.

SHEET INDEX  
 PAVEMENT PLAN  
 SHEET INDEX  
 C2.2

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--- EXISTING  
--- PROPOSED

+ 70.93 EXISTING SPOT ELEVATION  
• 54.3 PROPOSED SPOT ELEVATION

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**LEGEND**

**GENERAL NOTES:**

1. SEE SHEET C2.1 FOR IMPORTANT NOTES.

PROJECT NUMBER  
23-021

DATE  
12/01/23

REVISIONS  
NO. DATE

FACILITY CODE



855 ABUTMENT ROAD  
SUITE FOUR  
DALTON, GA 30721  
TEL. 706.529.5895

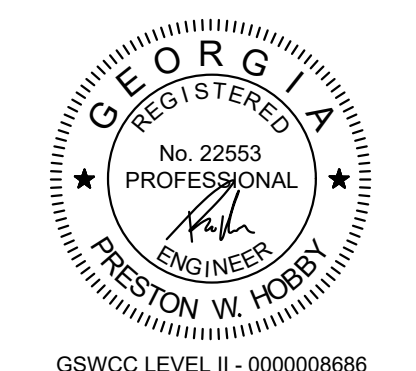
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CIVIL ENGINEERING  
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**A NEW BUILDING FOR:**  
DALTON POLICE DEPARTMENT  
WHITFIELD COUNTY  
DALTON, GA 30720



GSWCC LEVEL II - 0000008686

SHEET INDEX  
GRADING PLAN

SHEET INDEX

C3



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**UTILITY CONSTRUCTION LEGEND:**

**[CU] COORDINATE UTILITIES:**  
CONTACT UTILITY LOCATION CENTER, LOCATE AND VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION. COORDINATE ALL EXISTING AND PROPOSED UTILITY TAPS, CONSTRUCTION, REMOVAL, ALTERATION, OR RELOCATION REQUIRED TO COMPLETE THE WORK WITH APPROPRIATE UTILITY AUTHORITY. RESOLVE ALL CONFLICTS, OMISSIONS, OR DISCREPANCIES PRIOR TO CONSTRUCTION.

**[CMEP] COORDINATE PROPOSED UTILITIES:**  
COORDINATE AND VERIFY SITE UTILITIES WITH MECHANICAL, ELECTRICAL, PLUMBING (MEP) AND/OR OTHER ENGINEERING DISCIPLINES PLANS AND SPECIFICATIONS. VERIFY LOCATION, SIZE, MATERIAL, AND DEPTH/INVERT OF ALL UTILITIES ON SITE AND MEP ENGINEERING PLANS. FOR FUTURE CONSTRUCTION, PLUG LINES PER APPLICABLE CODE(S) AND MARK IN FIELD WITH 2" PVC PIPE AT LINE TERMINATION EXTENDED 18" ABOVE FINISH GRADE. RESOLVE ANY DISCREPANCIES OR CONFLICTS PRIOR TO CONSTRUCTION.

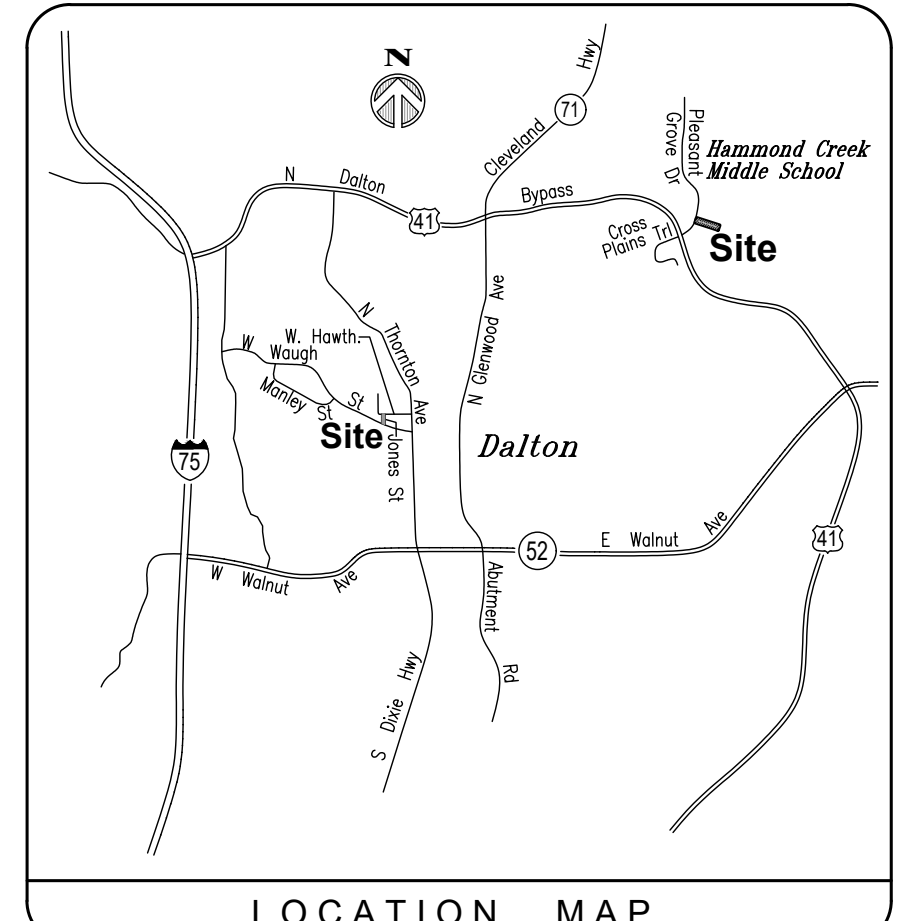
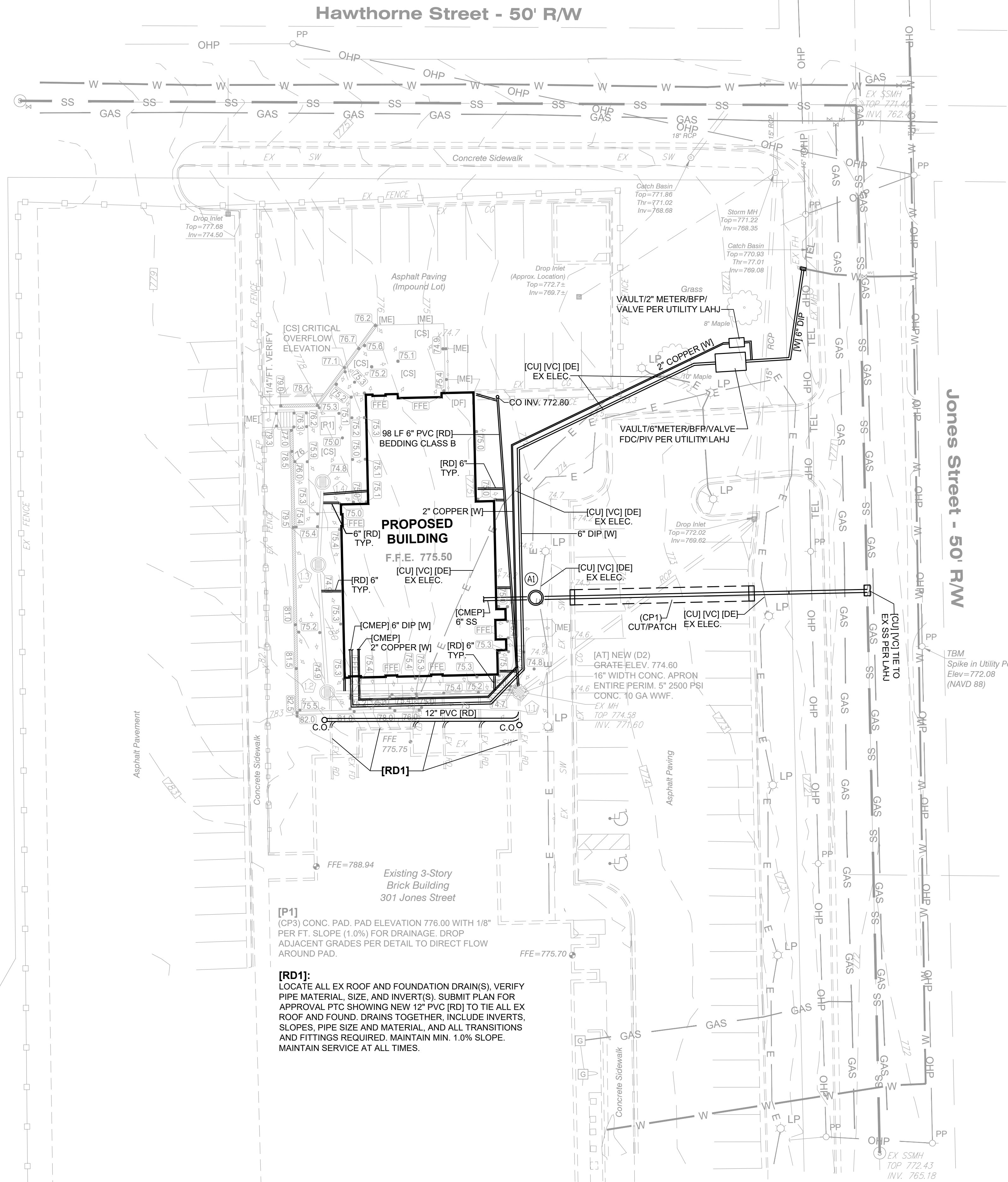
**[TP] TAPPING UTILITIES:**  
CONTRACTOR SHALL:  
PROVIDE WATER AND SEWER UTILITY TAPS PER LOCAL UTILITY AUTHORITY STANDARDS, DETAILS, AND SPECIFICATIONS. VERIFY ALL REQUIREMENTS PRIOR TO CONSTRUCTION (PTC). COORDINATE AND VERIFY SANITARY SEWER FORCE MAIN TAP ELEVATION PER SEWER PROFILE LINE A. WATER TAPS SHALL INCLUDE ALL VAULTS, METERS, METER BOXES, CHECK VALVE(S), FDC, POST INDICATOR VALVE, AND BACKFLOW PREVENTION DEVICES PER LOCAL UTILITY AUTHORITY.  
PROVIDE BACKFLOW PREVENTION DEVICES FOR DOMESTIC AND FIRE LINES PER LOCAL AUTHORITY STANDARDS AND SPECIFICATIONS. PROVIDE POST INDICATOR VALVE (PIV) AND FIRE DEPARTMENT CONNECTION (FDC - WITH CHECK VALVE) PER LOCAL AUTHORITY STANDARDS AND SPECIFICATIONS. LOCATION OF FDC AND PIV SHALL BE VERIFIED AND APPROVED BY LOCAL AUTHORITY.

**[VC] VERIFY & COORDINATE:**  
VERIFY ALL EXISTING IMPROVEMENTS. PROTECT BY ALL MEANS NECESSARY ALL EXISTING IMPROVEMENTS TO REMAIN. COORDINATE RELOCATION, REMOVAL, STORAGE, OR DEMOLITION WITH OWNER OR OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.

**[W] WATER LINE:**  
INSTALL WATER LINE ACCORDING TO LOCAL AUTHORITY STANDARDS AND PROJECT SPECIFICATIONS. MAINTAIN MINIMUM 4.0 FEET COVER OVER TOP OF PIPE, EXCEPT IN FUTURE BUILDING ADDITION AREA MAINTAIN MINIMUM 5.0 FEET COVER OVER TOP OF PIPE. INSTALL CONCRETE THRUST BLOCKS AT ALL TURNS, TEES, OR BENDS PER LOCAL AUTHORITY STANDARDS AT A MINIMUM. RESOLVE ALL CONFLICTS PRIOR TO CONSTRUCTION.

**UTILITY CONSTRUCTION NOTES:**

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE LOCAL AUTHORITY HAVING JURISDICTION STANDARDS AND SPECIFICATIONS, INCLUDING BUT NOT LIMITED TO: FIRE HYDRANTS, WATER LINES, VALVES, JUNCTIONS AND OTHER UTILITY RELATED STRUCTURES OR IMPROVEMENTS.
2. ALL UTILITY TAP(S) PROCEDURES SHALL CONFORM TO THE LOCAL AUTHORITY HAVING JURISDICTION STANDARDS AND SPECIFICATIONS.
3. MAINTAIN ALL EXISTING UTILITY SERVICE(S) AT ALL TIMES.
4. PROVIDE TRAFFIC CONTROL [TC] FOR ALL WORK IN RIGHT-OF-WAY AND WORK WHICH IMPACTS TRAFFIC FLOW. COORDINATE AND COMPLY WITH THE LOCAL AUTHORITY HAVING JURISDICTION STANDARDS AND SPECIFICATIONS.
5. OWNER/DEVELOPER IS RESPONSIBLE FOR VERIFICATION OF ADEQUATE WATER PRESSURE FOR THE PROPOSED CONSTRUCTION.
6. DO NOT OPEN CUT ANY ROAD WITHOUT WRITTEN PERMISSION FROM THE LOCAL AUTHORITY HAVING JURISDICTION.
7. TESTING, FLUSHING, AND CLEANING OF ALL LINES SHALL BE CONTRACTOR'S RESPONSIBILITY PER LOCAL AUTHORITY REQUIREMENTS AT A MINIMUM.
8. DO NOT INTERRUPT EXISTING FIRE LINE(S) FLOW EXCEPT IN STRICT ACCORDANCE WITH THE LOCAL FIRE DEPT. AUTHORITY. CONTRACTOR IS RESPONSIBLE FOR FULL COMPLIANCE AND NOTIFICATION. DO NOT DISTURB OR IMPACT NORMAL OPERATIONS. VERIFY AND COORDINATE PTC.



**LEGEND**

--- EXISTING	+ 70.93 EXISTING SPOT ELEVATION
--- PROPOSED	• 54.3 PROPOSED SPOT ELEVATION

**AC-CRICES**  
 BC-BACK OF CURB  
 BL-BUILDING SETBACK  
 CB-CATCH BASIN  
 CC-CURB & GUTTER  
 CH-CHORD  
 CL-CENTERLINE  
 CMP-CORR. METAL PIPE  
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**PB-PLAT BOOK**  
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 PL-PROPERTY LINE  
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 PP-POWER POLE  
 PS-PARKING SPACE  
 PTC-PRIOR TO CONSTRUCTION  
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 RD-ROOF DRAIN  
 RR-RAILROAD  
 R/W-RIGHT OF WAY  
 SD-STORM DRAIN  
 SF-SQUARE FEET  
 S-SANITARY SEWER  
 SSE-SAN. SEWER EASEMENT  
 SSMH-SAN. SEWER MANHOLE  
 SW-CONCRETE SIDEWALK  
 TB-THRUST BLOCK  
 TBR-TO BE REMOVED  
 TC-TOP OF CURB  
 TELE-TELEPHONE  
 TR-TO REMAIN  
 TW-TOP OF WALL  
 W-WATER  
 WW-WATER VALVE

**GENERAL NOTES:**  
1. SEE SHEET C2.1 FOR IMPORTANT NOTES.

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WHITFIELD COUNTY  
DALTON, GA 30720

**GEORGIA REGISTERED PROFESSIONAL ENGINEER**  
No. 22555  
PRESTON W. HOBBS

GSWCC LEVEL II - 0000008688

SHEET INDEX

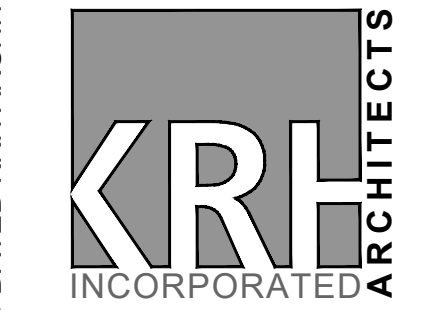
UTILITY PLAN

SHEET INDEX

**C4**



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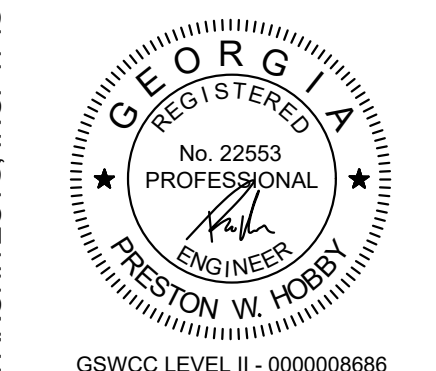


**PWR ENGINEERING**  
CIVIL ENGINEERING  
SITE DEVELOPMENT  
2900 DELA ROAD STE 700 #318 • MARIETTA, GA 30067 • PH: 770-433-6190

301 JONES STREET DALTON, GA 30720 WHITFIELD COUNTY, GA

ISSUE DATE: 02-15-24  
JOB No. 22280 SCALE: 1" = 20'

A NEW BUILDING FOR:  
DALTON POLICE DEPARTMENT  
WHITFIELD COUNTY  
DALTON, GA 30720



GSWCC LEVEL II - 0000008686

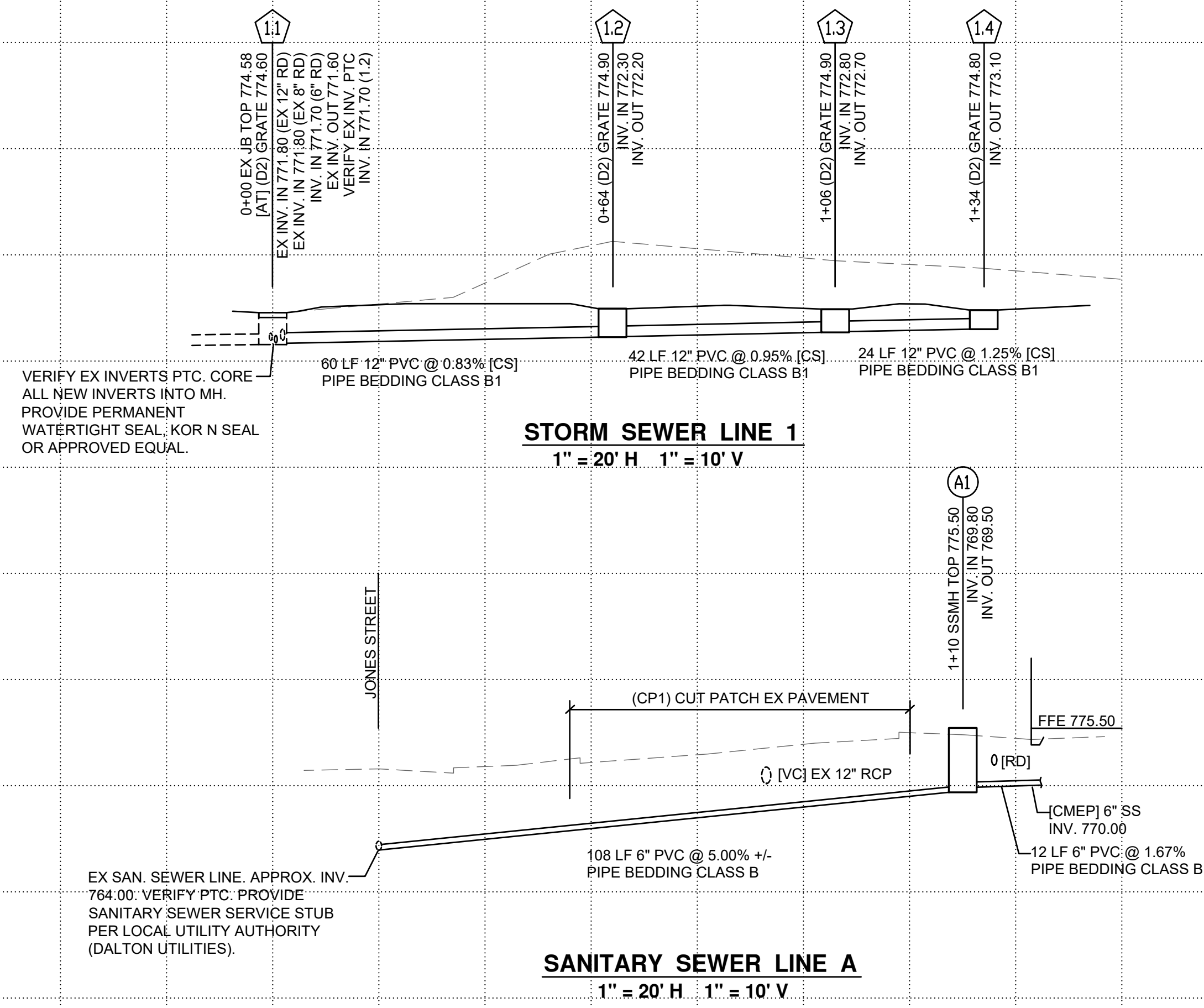
SHEET INDEX

PROFILES

SHEET INDEX

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855 AUBURN ROAD  
SUITE FOUR  
DALTON, GA 30721  
TEL. 706.529.5895

**PWR ENGINEERING**  
CIVIL ENGINEERING  
SITE DEVELOPMENT  
2900 DEK ROAD STE 700 #218 • MARIETTA, GA 30067 • PH: 770-433-6190  
301 JONES STREET DALTON, GA 30720 WHITFIELD COUNTY, GA  
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(3). Off-site vehicle tracking of dirt, soils, and sediments and the generation of dust shall be minimized or eliminated to the maximum extent practical. The Plan shall include the best management practice to be implemented at the site or construction activity.

(4). Nothing in this permit relieves a permittee from any obligation to comply with all applicable State and local regulations of waste disposal, sanitary sewer, septic and petroleum storage systems.

(5). The Plan shall include best management practices for the remediation of all petroleum spills and leaks as appropriate.

(6). The Plan shall include best management practices for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of vehicles. Washout of the drum at the construction site is prohibited. Additional information about best management practices for concrete washout is available at the USEPA website.

(7). All permittees are required to minimize the discharge of pollutants from dewatering trenches and excavations. Discharges are prohibited unless managed by appropriate controls.

**4. Inspections.**

a. Permittee requirements.

(1). Each day when any type of construction activity has taken place at a primary permittee's site, certified personnel provided by the primary permittee shall inspect: (a) all areas at the primary permittee's site where petroleum products are stored, used, or handled for spills and leaks from vehicles and equipment and (b) all locations at the primary permittee's site where vehicles enter or exit the site for evidence of off-site sediment tracking. These inspections must be conducted until a Notice of Termination is submitted.

(2). Measure and record rainfall within disturbed areas of the site that have not met final stabilization once every 24 hours except any non-working Saturday, non-working Sunday and non-working Federal holiday. The data collected for the purpose of compliance with this permit shall be representative of the monitored activity. Measurement of rainfall may be suspended if all areas of the site have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region.

(3). Certified personnel (provided by the primary permittee) shall inspect the following at least ~~once~~ <sup>twice</sup> every seven (7) calendar days and within 24 hours of the end of a storm that is 0.5 inches rainfall or greater (unless such storm ends after 5:00 PM on any Friday or on any non-working Saturday, non-working Sunday or

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any non-working Federal holiday in which case the inspection shall be completed by the end of the next business day and/or working day, whichever occurs first:

(a) disturbed areas of the primary permittee's construction site; (b) areas used by the primary permittee for storage of materials that are exposed to precipitation; and (c) structural control measures. Erosion and sediment control measures identified in the Plan applicable to the primary permittee's site shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). For areas of a site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region, the permittee must comply with Part IV.D.4.a.(4). These inspections must be conducted until a Notice of Termination is submitted.

(4). Certified personnel (provided by the primary permittee) shall inspect at least once per month during the term of this permit (i.e., until a Notice of Termination has been submitted) the areas of the site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region. These areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and the receiving water(s). Erosion and sediment control measures identified in the Plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s).

(5). Based on the results of each inspection, the site description and the pollution prevention and control measures identified in the Erosion, Sedimentation and Pollution Control Plan, the Plan shall be revised as appropriate not later than seven (7) calendar days following each inspection. Implementation of such changes shall be made as soon as practical but in no case later than seven (7) calendar days following each inspection.

(6). A report of each inspection that includes the name(s) of certified personnel making each inspection, the date(s) of each inspection, construction phase (i.e., initial, intermediate or final), major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan, and actions taken in accordance with Part IV.D.4.a.(5), of the permit shall be made and retained at the site or be readily available at a designated alternate location until the entire site or that portion of a construction site that has been phased has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall be readily available by end of the second business day and/or working day and shall identify all incidents of best management practices that have not been properly installed and/or maintained as described in the Plan. Where the report does not identify any incidents, the inspection report shall contain a certification that the best management practices are in compliance with the Erosion,

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Sedimentation and Pollution Control Plan. The report shall be signed in accordance with Part V.G.2. of this permit.

**5. Maintenance.** The Plan shall include a description of procedures to ensure the timely maintenance of vegetation, erosion and sediment control measures and other protective measures identified in the site plan.

**6. Sampling Requirements.** This permit requires the monitoring of nephelometric turbidity in receiving water(s) or outfalls in accordance with this permit. This paragraph shall not apply to any land disturbance associated with the construction of single-family homes which are not part of a subdivision or planned common development unless five (5) acres or more will be disturbed. The following procedures constitute EPD's guidelines for sampling turbidity.

a. *Sampling Requirements* shall include the following:

(1). A USGS topographic map, a topographic map or a drawing (referred to as a topographic map) that is a scale equal to or more detailed than a 1:24000 map showing the location of the site or the stand alone construction; (a) the location of all perennial and intermittent streams and other water bodies as shown on a USGS topographic map, and all other perennial and intermittent streams and other water bodies located during mandatory field verification, into which the stormwater is discharged and (b) the receiving water and/or outfall sampling locations. When the permittee has chosen to use a USGS topographic map and the receiving water(s) is not shown on the USGS topographic map, the location of the receiving water(s) must be hand-drawn on the USGS topographic map from where the stormwater(s) enters the receiving water(s) to the point where the receiving water(s) combines with the first blue line stream shown on the USGS topographic map;

(2). A written narrative of site specific analytical methods used to collect, handle and analyze the samples including quality control/quality assurance procedures. This narrative must include precise sampling methodology for each sampling location;

(3). When the permittee has determined that some or all outfalls will be sampled, a rationale must be included on the Plan for the NTU limit(s) selected from Appendix B. This rationale must include the size of the construction site, the calculation of the size of the surface water drainage area, and the type of receiving water(s) (i.e., trout stream or supporting warm water fisheries); and

(4). Any additional information EPD determines necessary to be part of the Plan. EPD will provide written notice to the permittee of the information necessary and the time line for submittal.

b. *Sample Type.* All sampling shall be collected by "grab samples" and the analysis of these samples must be conducted in accordance with methodology and test procedures established by 40 CFR Part 136 (unless other test procedures have been approved); the guidance document titled "NPDES Storm Water Sampling Guidance Document, EPA 833-B-92-001" and guidance documents that may be prepared by the EPD.

(1). Sample containers should be labeled prior to collecting the samples.

(2). Samples should be well mixed before transferring to a secondary container.

(3). Large mouth, well cleaned and rinsed glass or plastic jars should be used for collecting samples. The jars should be cleaned thoroughly to avoid contamination.

(4). Manual, automatic or rising stage sampling may be utilized. Samples required by this permit should be analyzed immediately, but in no case later than 48 hours after collection. However, samples from automatic samplers must be collected no later than the next business day after their accumulation, unless flow through automated analysis is utilized. If automatic sampling is utilized and the automatic sampler is not activated during the qualifying event, the permittee must utilize manual sampling or rising stage sampling during the next qualifying event. Dilution of samples is not required. Samples may be analyzed directly with a properly calibrated turbidimeter. Samples are not required to be cooled.

(5). Sampling and analysis of the receiving water(s) or outfalls beyond the minimum frequency stated in this permit must be reported to EPD as specified in Part IV.E.

c. *Sampling Points.*

(1). For construction activities the primary permittee must sample all receiving water(s), or all outfall(s), or a combination of receiving water(s) and outfall(s). Samples taken for the purpose of compliance with this permit shall be representative of the monitored activity and representative of the water quality of the receiving water(s) and/or the stormwater outfalls using the following minimum guidelines:

(a). The upstream sample for each receiving water(s) must be taken immediately upstream of the confluence of the first stormwater discharge from the permitted activity (i.e., the discharge farthest upstream at the site) but downstream of any other stormwater discharges not associated with the permitted activity. Where appropriate, several upstream samples from across the receiving water(s) may need to be taken and the arithmetic average of the turbidity of these samples used for the upstream turbidity value.

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(b). The downstream sample for each receiving water(s) must be taken downstream of the confluence of the last stormwater discharge from the permitted activity (i.e., the discharge farthest downstream at the site) but upstream of any other stormwater discharge not associated with the permitted activity. Where appropriate, several downstream samples from across the receiving water(s) may need to be taken and the arithmetic average of the turbidity of these samples used for the downstream turbidity value.

(c). Ideally the samples should be taken from the horizontal and vertical center of the receiving water(s) or the stormwater outfall channel(s).

(d). Care should be taken to avoid stirring the bottom sediments in the receiving water(s) or in the outfall stormwater channel.

(e). The sampling container should be held so that the opening faces upstream.

(f). The samples should be kept free from floating debris.

(g). Permittees do not have to sample sheet flow that flows onto undisturbed natural areas or areas stabilized by the project. For purposes of this section, stabilized shall mean, for unpaved areas and areas not covered by permanent structures and areas located outside the waste disposal limits of a landfill cell that has been certified by EPD for waste disposal, 100% of the soil surface is uniformly covered in permanent vegetation with a density of 70% or greater, or landscaped according to the Plan (uniformly covered with landscaping materials in planned landscaped areas), or equivalent permanent stabilization measures as defined in the Manual (excluding a crop of annual vegetation and a seeding of target crop perennials appropriate for the region).

(h). All sampling pursuant to this permit must be done in such a way (including generally accepted sampling methods, locations, timing, and frequency) as to accurately reflect whether stormwater runoff from the construction site is in compliance with the standard set forth in Parts III.D.3. or III.D.4., whichever is applicable.

d. *Sampling Frequency.*

(1). The primary permittee must sample in accordance with the Plan at least once for each rainfall event described below. For a qualifying event, the permittee shall sample at the beginning of any stormwater discharge to a monitored receiving water and/or from a monitored outfall location within in forty-five (45) minutes or as soon as possible.

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**APPENDIX B**

**Nephelometric Turbidity Unit (NTU) TABLES**

**Trout Streams**

Site Size, acres	Surface Water Drainage Area, square miles						
	0-4.99	5-9.99	10-24.99	25-49.99	50-99.99	100-249.99	250-499.99 500+
1.00-10	25	50	75	150	300	500	500 500
10.01-25	25	25	50	75	150	200	500 500
25.01-50	25	25	25	50	75	100	300 500
50.01-100	20	25	25	35	59	75	150 300
100.01+	20	20	25	25	25	50	60 100

**Waters Supporting Warm Water Fisheries**

Site Size, acres	Surface Water Drainage Area, square miles						
	0-4.99	5-9.99	10-24.99	25-49.99	50-99.99	100-249.99	250-499.99 500+
1.00-10	75	150	200	400	750	750	750 750
10.01-25	50	100	100	200	300	500	750 750
25.01-50	50	50	100	100	200	300	750 750
50.01-100	50	50	50	100	100	150	300 600
100.01+	50	50	50	50	50	100	200 100

To use these tables, select the size (acres) of the construction site. Then, select the surface water drainage area (square miles). The NTU matrix value arrived at from the above tables is the one to use in Part III.D.4.

Example 1: For a site size of 12.5 acres and a "trout stream" drainage area of 37.5 square miles, the NTU value to use in Part III.D.4. is 75 NTU.

Example 2: For a site size of 51.7 acres and "waters supporting warm water fisheries" drainage area of 72 square miles, the NTU value to use in Part III.D.4. is 100 NTU.

**F. Retention of Records.**

1. The primary permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI:

a. A copy of all Notices of Intent submitted to EPD;

b. A copy of the Erosion, Sedimentation and Pollution Control Plan required by this permit;

c. The design professional's report of the results of the inspection conducted in accordance with Part IV.A.5. of this permit;

d. A copy of all sampling information, results, and reports required by this permit;

e. A copy of all inspection reports generated in accordance with Part IV.D.4.a. of this permit;

f. A copy of all violation summaries and violation summary reports generated in accordance with Part III.D.2. of this permit; and

g. Daily rainfall information collected in accordance with Part IV.D.4.a.(2). of this permit.

2. Copies of all Notices of Intent, Notices of Termination, inspection reports, sampling reports (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) or other reports requested by the EPD, Erosion, Sedimentation and Pollution Control Plans, records of all data used to complete the Notice of Intent to be covered by this permit and all other records required by this permit shall be retained by the permittee who either produced or used it for a period of at least three years from the date that the NOT is submitted in accordance with Part VI. of this permit. These records must be maintained at the permittee's primary place of business or at a designated alternative location once the construction activity has ceased at the permitted site. This period may be extended by request of the EPD at any time upon written notification to the permittee.

**Part V. STANDARD PERMIT CONDITIONS**

**A. Duty to Comply.**

1. Each permittee must comply with all applicable conditions of this permit. Any permit noncompliance constitutes a violation of the Georgia Water Quality Control Act (O.C.G.A. §§12-5-20, et seq.) and is grounds for enforcement action; for permit termination; or for denial of a permit renewal application. Failure of a primary permittee to comply with any applicable term or condition of this permit shall not relieve any other primary permittee from compliance with their applicable terms and conditions of this permit.

2. Each permittee must document in their records any and all known violations of this permit at his/her site within seven (7) days of his/her knowledge of the violation. A summary of these violations must be submitted to EPD by the permittee at the addresses shown in Part I.C. within fourteen (14) days of his/her discovery of the violation.

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(2). However, where manual and automatic sampling are impossible (as defined in this permit), or are beyond the permittee's control, the permittee shall take samples as soon as possible, but in no case more than twelve (12) hours after the beginning of the stormwater discharge.

(3). Sampling by the permittee shall occur for the following qualifying events:

(a). For each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a stormwater discharge that occurs during normal business hours as defined in this permit after all clearing and grubbing operations have been completed, but prior to completion of mass grading operations, in the drainage area of the location selected as the sampling location;

(b). In addition to (a) above, for each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a stormwater discharge that occurs during normal business hours as defined in this permit either 90 days after the first sampling event or after all mass grading operations have been completed, but prior to submittal of a NOT, in the drainage area of the location selected as the sampling location, whichever comes first;

(c). At the time of sampling performed pursuant to (a) and (b) above, if BMPs in any area of the site that discharges to a receiving water or from an outfall are not properly designed, installed and maintained, corrective action shall be defined and implemented within two (2) business days, and turbidity samples shall be taken from discharges from that area of the site for each subsequent rain event that reaches or exceeds 0.5 inch during normal business hours\* until the selected turbidity standard is attained, or until post-storm event inspections determine that BMPs are properly designed, installed and maintained;

(d). Where sampling pursuant to (a), (b) or (c) above is required but not possible (or not required because there was no discharge), the permittee, in accordance with Part IV.D.4.a.(6), must include a written justification in the inspection report of why sampling was not performed. Providing this justification does not relieve the permittee of any subsequent sampling obligations under (a), (b) or (c) above; and

(e). Existing construction activities, i.e., those that are occurring on or before the effective date of this permit, that have met the sampling required by (a) above shall sample in accordance with (b). Those existing construction activities that have met the sampling required by (b) above shall not be required to conduct additional sampling other than as required by (c) above.

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\*Note that the permittee may choose to meet the requirements of (a) and (b) above by collecting turbidity samples from any rain event that reaches or exceeds 0.5 inch and allows for sampling at any time of the day or week.

**7. Non-stormwater discharges.** Except for flows from fire fighting activities, sources of non-stormwater listed in Part III.A.2. of this permit that are combined with stormwater discharges associated with construction activity must be identified in the Plan. The Plan shall identify and ensure the implementation of appropriate pollution prevention measures for the non-stormwater component(s) of the discharge.

**E. Reporting.**

1. The applicable permittees are required to submit the sampling results to the EPD at the address shown in Part I.I.C. by the fifteenth day of the month following the reporting period. Reporting periods are months during which samples are taken in accordance with this permit. Sampling results shall be in a clearly legible format. Upon written notification, EPD may require the applicable permittee to submit the sampling results on a more frequent basis. Sampling and analysis of any stormwater discharge(s) or the receiving water(s) beyond the minimum frequency stated in this permit must be reported in a similar manner to the EPD. The sampling reports must be signed in accordance with Part V.G.2. Sampling reports must be submitted to EPD using the electronic submittal service provided by EPD. Sampling reports must be submitted to EPD until such time as a NOT is submitted in accordance with Part VI.

2. All sampling reports shall include the following information:

a. The rainfall amount, date, exact place and time of sampling or measurements;

b. The name(s) of the certified personnel who performed the sampling and measurements;

c. The date(s) analyses were performed;

d. The time(s) analyses were initiated;

e. The name(s) of the certified personnel who performed the analyses;

f. References and written procedures, when available, for the analytical techniques or methods used;

g. The results of such analyses, including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine these results;

h. Results which exceed 1000 NTU shall be reported as "exceeds 1000 NTU;" and

i. Certification statement that sampling was conducted as per the Plan.

3. All written correspondence required by this permit shall be submitted by return receipt certified mail (or similar service) to the appropriate District Office of the EPD according to the schedule in Appendix A. of this permit. The permittee shall retain a copy of the proof of submittal at the construction site or the proof of submittal shall be readily available at a designated location from commencement of construction until such time as a NOT is submitted in accordance with Part VI.

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Environmental Protection Division

**F. Retention of Records.**

1. The primary permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI:

a. A copy of all Notices of Intent submitted to EPD;

b. A copy of the Erosion, Sedimentation and Pollution Control Plan required by this permit;

c. The design professional's report of the results of the inspection conducted in accordance with Part IV.A.5. of this permit;

d. A copy of all sampling information, results, and reports required by this permit;

e. A copy of all inspection reports generated in accordance with Part IV.D.4.a. of this permit;

f. A copy of all violation summaries and violation summary reports generated in accordance with Part III.D.2. of this permit; and

g. Daily rainfall information collected in accordance with Part IV.D.4.a.(2). of this permit.

2. Copies of all Notices of Intent, Notices of Termination, inspection reports, sampling reports (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) or other reports requested by the EPD, Erosion, Sedimentation and Pollution Control Plans, records of all data used to complete the Notice of Intent to be covered by this permit and all other records required by this permit shall be retained by the permittee who either produced or used it for a period of at least three years from the date that the NOT is submitted in accordance with Part VI. of this permit. These records must be maintained at the permittee's primary place of business or at a designated alternative location once the construction activity has ceased at the permitted site. This period may be extended by request of the EPD at any time upon written notification to the permittee.

**Part V. STANDARD PERMIT CONDITIONS**

**A. Duty to Comply.**

1. Each permittee must comply with all applicable conditions of this permit. Any permit noncompliance constitutes a violation of the Georgia Water Quality Control Act (O.C.G.A. §§12-5-20, et seq.) and is grounds for enforcement action; for permit termination; or for denial of a permit renewal application. Failure of a primary permittee to comply with any applicable term or condition of this permit shall not relieve any other primary permittee from compliance with their applicable terms and conditions of this permit.

2. Each permittee must document in their records any and all known violations of this permit at his/her site within seven (7) days of his/her knowledge of the violation. A summary of these violations must be submitted to EPD by the permittee at the addresses shown in Part I.C. within fourteen (14) days of his/her discovery of the violation.

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**APPENDIX B**

**Nephelometric Turbidity Unit (NTU) TABLES**

**Trout Streams**

Site Size, acres	Surface Water Drainage Area, square miles						
	0-4.99	5-9.99	10-24.99	25-49.99	50-99.99	100-249.99	250-499.99 500+
1.00-10	25	50	75	150	300	500	500 500
10.01-25	25	25	50	75	150	200	500 500
25.01-50	25	25	25	50	75	100	300 500
50.01-100	20	25	25	35	59	75	150 300
100.01+	20	20	25	25	25	50	60 100

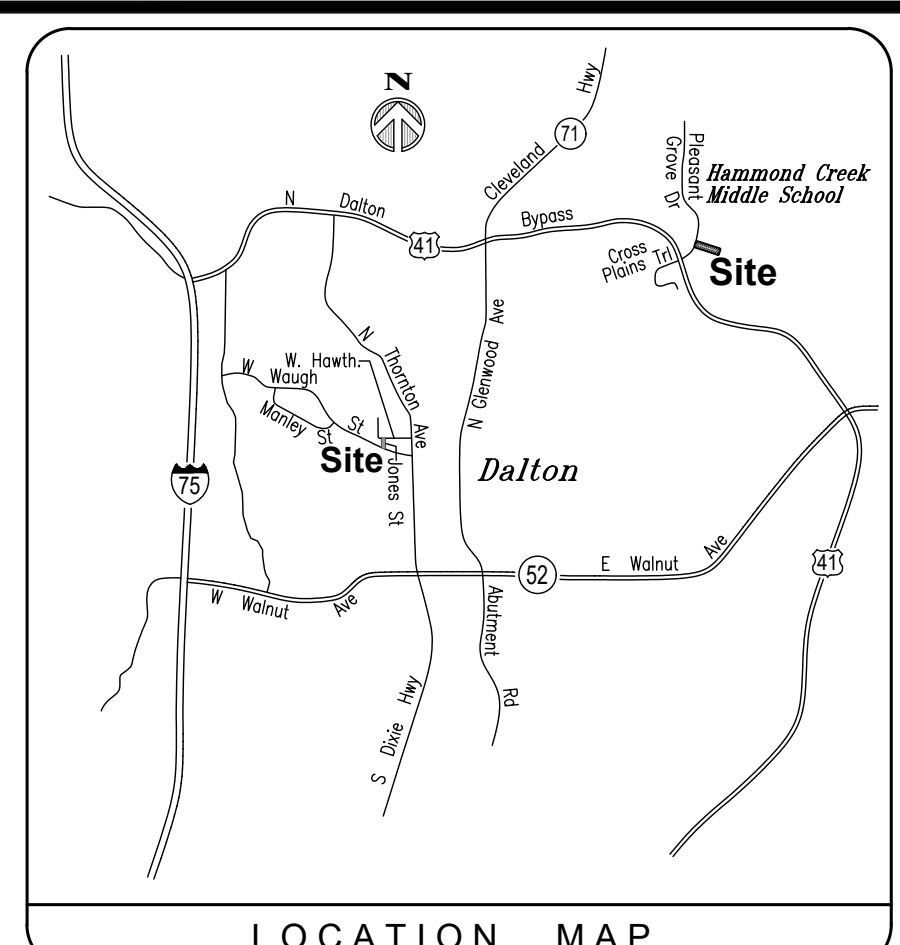
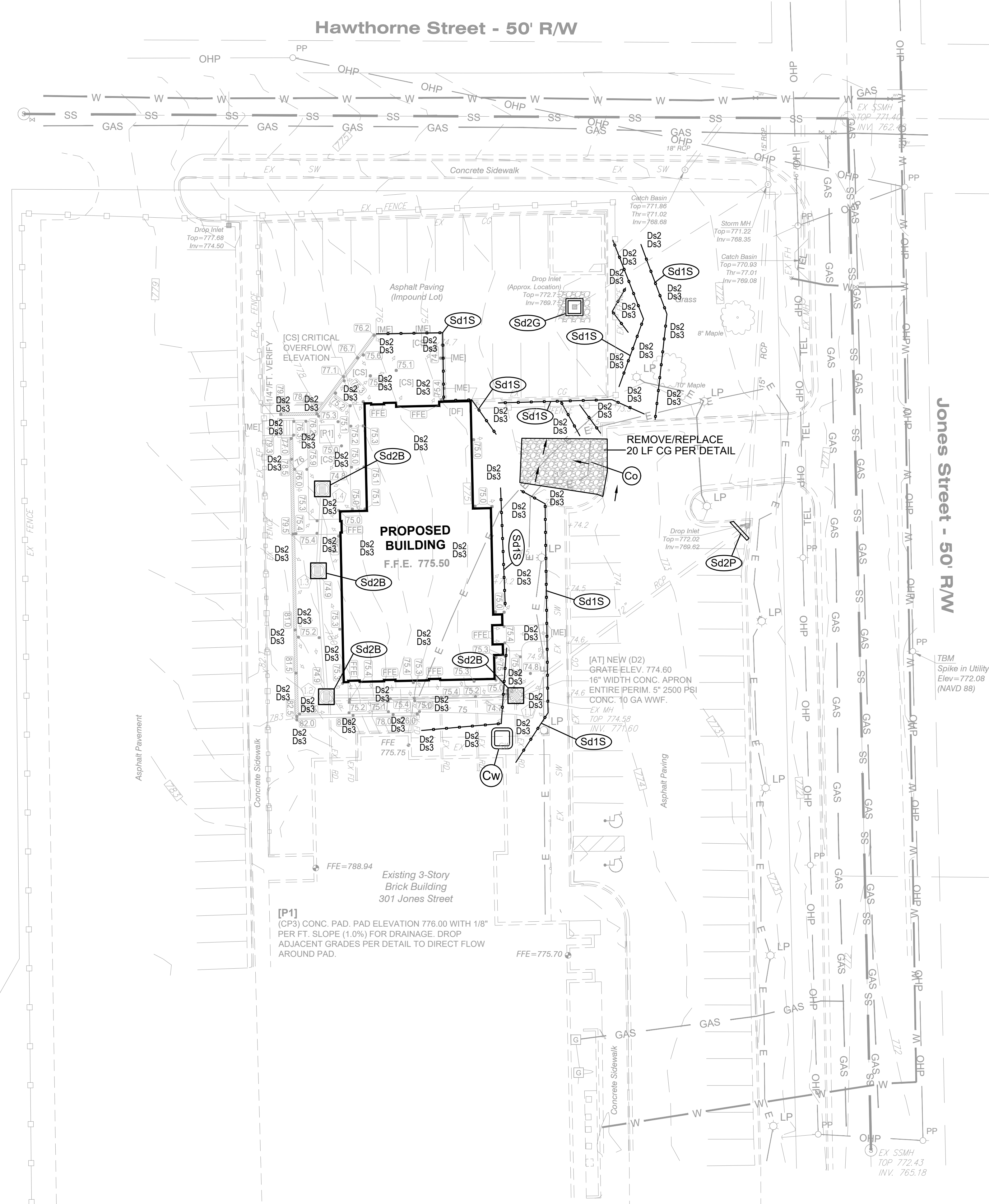
**Waters Supporting Warm Water Fisheries**

Site Size, acres	Surface Water Drainage Area, square miles						
	0-4.99	5-9.99	10-24.99	25-49.99	50-99.99	100-249.99	250-499.99 500+
1.00-10	75	150	200	400	750	750	750 750
10.01-25	50	100	100	200	300	500	750 750
25.01-50	50	50	100	100	200	300	750 750
50.01-100	50	50	50	100	100	150	300 600
100.01+	50	50	50	50	50	100	200 100

To use these tables, select the size (acres) of the construction site. Then, select the surface water drainage area (square miles). The NTU matrix value arrived at from the above tables is the one to use in Part III.D.4.

Example 1: For a site size of 12.5 acres and a "trout stream" drainage area of 37.5 square miles, the NTU value to use in Part III.D.4. is 75 NTU.

Example 2: For a site size of 51.7 acres and "waters supporting warm water fisheries" drainage area of 72 square miles, the NTU value to use in Part III.D.4. is 100 NTU.



**LEGEND**

--- EXISTING  
 --- PROPOSED  
 + 70.93 EXISTING SPOT ELEVATION  
 • 54.3 PROPOSED SPOT ELEVATION

AC-ACRES  
 BC-BACK OF CURB  
 BL-BUILDING SETBACK  
 CB-CATCH BASIN  
 CG-CURB & GUTTER  
 CH-CHORD  
 CL-CENTERLINE  
 CMP-CORR. METAL PIPE  
 DB-DEED BOOK  
 DE-DRAINAGE EASEMENT  
 DI-DROP INLET  
 EP-EDGE PAVEMENT  
 EX-EXISTING  
 FH-FIRE HYDRANT  
 G-GAS LINE  
 HW-HEADWALL  
 HD-HEAVY DUTY  
 IPP-IRON PIN PLACED  
 IFF-IRON PIN FOUND  
 JB-JUNCTION BOX  
 L-ARC LENGTH  
 LOC-LIMIT OF CLEARING  
 LP-LIGHT/LAMP POST  
 MH-MANHOLE  
 N/F-NOW OR FORMERLY  
 OHP-OVERHEAD POWER

PB-PLAT BOOK  
 PG-PAGE  
 PL-PROPERTY LINE  
 POB-POINT OF BEGINNING  
 PP-POWER POLE  
 PS-PARKING SPACE  
 PTC-PRIOR TO CONSTRUCTION  
 R-RADIUS  
 RCP-REINFORCED CONC. PIPE  
 RD-ROOF DRAIN  
 RR-RAILROAD  
 R/W-RIGHT OF WAY  
 SD-STORM DRAIN  
 SF-SQUARE FEET  
 S-SANITARY SEWER  
 SSE-SAN. SEWER EASEMENT  
 SSMH-SAN. SEWER MANHOLE  
 SW-CONCRETE SIDEWALK  
 TB-THRUST BLOCK  
 TBR-TO BE REMOVED  
 TC-TOP OF CURB  
 TELE-TELEPHONE  
 TR-TO REMAIN  
 TW-TOP OF WALL  
 W-WATER  
 WV-WATER VALVE

**GENERAL NOTES:**

1. SEE SHEET C2.1 FOR IMPORTANT NOTES.

PROJECT NUMBER  
23-021

DATE  
12/01/23

REVISIONS  
NO. DATE

FACILITY CODE



855 ABUTMENT ROAD  
SUITE FOUR  
DALTON, GA 30721  
TEL. 706.529.5895

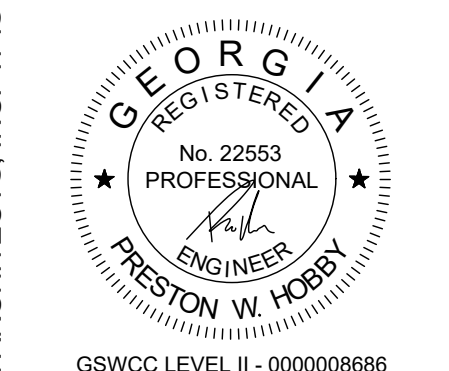
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SITE DEVELOPMENT

2900 DELAWARE AVE STE 700 #318 • MARIETTA, GA 30067 • PH: 770-433-6190

301 JONES STREET DALTON, GA 30720 WHITFIELD COUNTY, GA

ISSUE DATE: 02-15-24  
JOB No. 22280 SCALE: 1" = 20'

**A NEW BUILDING FOR:**  
DALTON POLICE DEPARTMENT  
WHITFIELD COUNTY  
DALTON, GA 30720



GSWCC LEVEL II - 0000008686

SHEET INDEX

EROSION CONTROL PLAN

SHEET INDEX

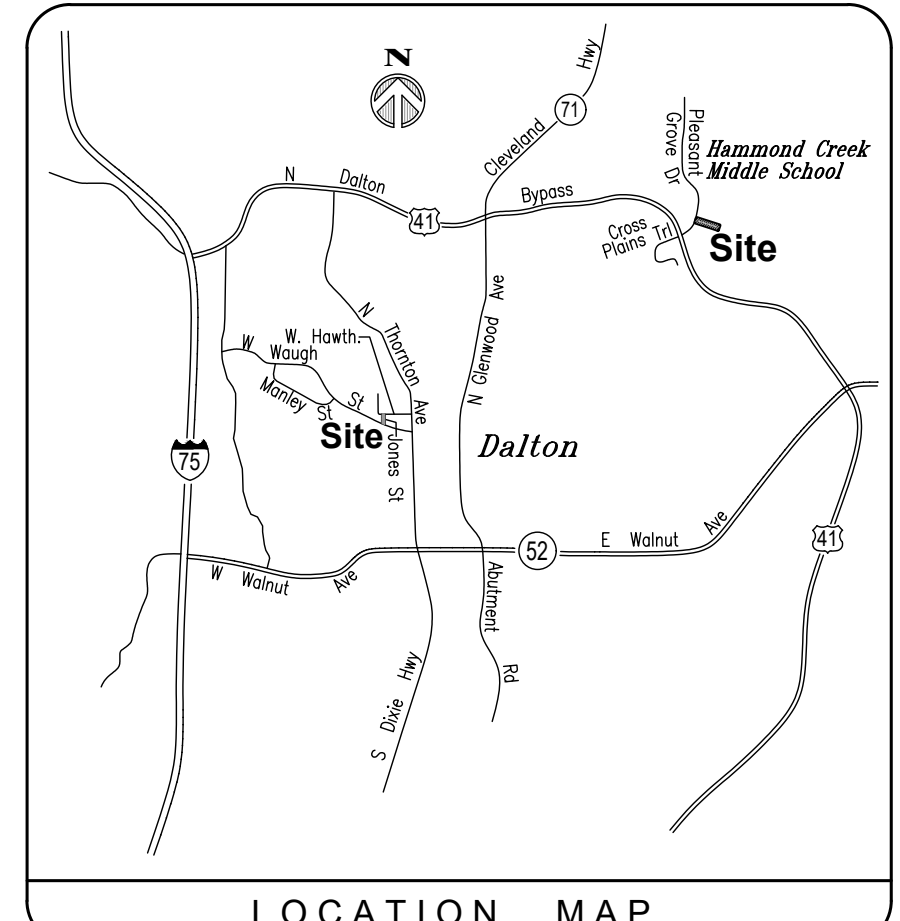
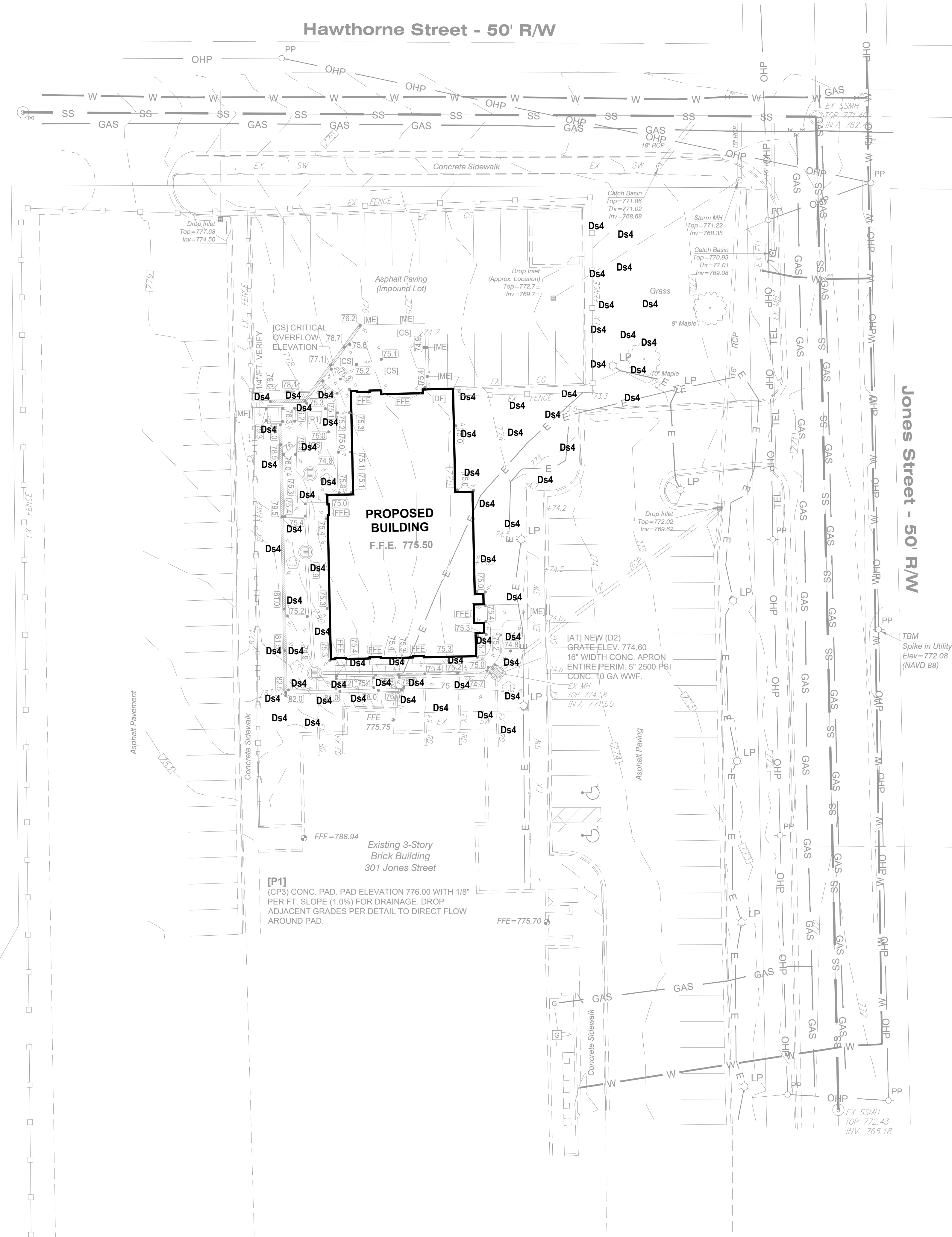
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**LANDSCAPING NOTES:**

1. CONTRACTOR SHALL PROVIDE PROFESSIONAL LANDSCAPE CONTRACTOR EXPERIENCED IN LANDSCAPING, GRASS, SOD, AND LAWN INSTALLATION. LANDSCAPER MUST BE APPROVED BY OWNER AND ENGINEER. SEE SPECIFICATIONS.
2. ALL DISTURBED AREAS SHALL RECEIVE GRASS SOD PER SPECIFICATIONS. VERIFY SOD TYPE AND SPECIES WITH OWNER PRIOR TO CONSTRUCTION. SOD SHALL BE ANCHORED ON SLOPES GREATER THAN 6H:1V. ALL SLOPES SHALL HAVE MATTING AND BLANKETS (Mb) AND ANCHORED MULCH, AND PERMANENT GRASS ESTABLISHED IMMEDIATELY AFTER SLOPE IS CREATED. MATTING AND BLANKETS SHALL BE TEMPORARY TYPE MADE FROM ORGANIC MATERIAL.
3. ALL SLOPES SHALL BE TEMPORARILY STABILIZED WITH MULCH AND TEMPORARY SEEDING AS REQUIRED UNTIL FINAL STABILIZATION. CONTRACTOR SHALL ESTABLISH PERMANENT GRASS ON SLOPES AS SOON AS GRADE IS ESTABLISHED.
4. CONTRACTOR IS SOLELY RESPONSIBLE FOR PLANTING DATES FOR GRASS SPECIES SPECIFIED. CONTRACTOR SHALL SCHEDULE CONSTRUCTION, GRADING, AND GRASSING TO ACHIEVE AND ESTABLISH PERMANENT GRASS A MINIMUM OF 60 DAYS PRIOR TO FINAL RELEASE. CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF ALL GRASS/SOD PER SPECIFICATIONS.
5. ALL TEMPORARY GRASS OR GRASS MIXTURES USED FOR TEMPORARY STABILIZATION SHALL BE FULLY AND COMPLETELY TILLED UNDER AND REMOVED PRIOR TO INSTALLATION OF PERMANENT GRASS. CONTRACTOR IS RESPONSIBLE FOR COMPLETE PREPARATION AND SOIL AMENDMENTS ON ALL SUCH AREAS PER SPECIFICATIONS.
6. GRASSSED AREAS WHICH DO NOT GROW OR MEET SPECIFICATIONS SHALL BE REMOVED IMMEDIATELY AND RE-INSTALLED.
7. ALL AREAS NOT RECEIVING PREPARATION, SOIL AMENDMENTS, TOPSOIL, FERTILIZER, AND OTHER MEASURES PER SPECIFICATIONS AND REQUIRED SOILS TEST(S) WILL BE REJECTED.
8. MAINTENANCE OF ALL GRASS AND LANDSCAPED AREAS WILL INCLUDE TRIMMING, WEEDING AND WEED REMOVAL. CONTRACTOR SHALL APPLY WEED CONTROL AND FERTILIZER AS RECOMMENDED BY SOILS TEST(S) OR REFERENCED STANDARDS THROUGHOUT CONSTRUCTION AND MAINTENANCE PERIOD.
9. CONTRACTOR SHALL PROVIDE MAINTENANCE, MOWING, WATERING, WEEDING, AND PROTECTION OF ALL GRASS, SOD, AND LANDSCAPED AREAS THROUGHOUT CONSTRUCTION AND PER SPECIFICATIONS UNTIL FINAL RELEASE BY OWNER.



EXISTING SPOT ELEVATION: + 70.93  
PROPOSED SPOT ELEVATION: 54.3

AC-ACRES	PB-PLAT BOOK
BC-BACK OF CURB	PC-PAGE
BL-BUILDING SETBACK	PL-PROPERTY LINE
CB-CATCH BASIN	PGB-POINT OF BEGINNING
CG-CURB & GUTTER	PP-POWER POLE
CH-CHORD	PS-PARKING SPACE
CL-CENTERLINE	PTC-PRIOR TO CONSTRUCTION
CMP-CORR. METAL PIPE	R-RADIUS
DB-DEED BOOK	RCP-REINFORCED CONC. PIPE
DE-DRAINAGE EASEMENT	RD-ROOF DRAIN
DI-DROP INLET	RR-RAILROAD
EP-EDGE PAVEMENT	R/W-RIGHT OF WAY
EX-EXISTING	SF-SQUARE FEET
FH-FIRE HYDRANT	SD-STORM DRAIN
G-GAS LINE	SS-SANITARY SEWER
HW-HEADWALL	SSE-SAN. SEWER EASEMENT
HD-HEAVY DUTY	SSMH-SAN. SEWER MANHOLE
IPP-IRON PIN PLACED	SW-CONCRETE SIDEWALK
IPP-IRON PIN FOUND	TB-THRUST BLOCK
JB-JUNCTION BOX	TBR-TO BE REMOVED
L-ARC LENGTH	TC-TOP OF CURB
LOC-LIMIT OF CLEARING	TEL-TELEPHONE
LP-LIGHT/LAMP POST	TR-TO REMAIN
MH-MANHOLE	TW-TOP OF WALL
N/F-NOW OR FORMERLY	W-WATER
OHP-OVERHEAD POWER	WV-WATER VALVE

**GENERAL NOTES:**  
1. SEE SHEET C2.1 FOR IMPORTANT NOTES.

PROJECT NUMBER 23-021  
DATE 12/01/23  
REVISIONS NO. DATE  
FACILITY CODE  
KRH ARCHITECTS INCORPORATED  
855 AUBURN ROAD SUITE FOUR DALTON, GA 30721 TEL. 706.529.5895  
PWR ENGINEERING CIVIL ENGINEERING SITE DEVELOPMENT 2900 DELAWARE AVE STE 700 #318 • MARIETTA, GA 30067 • PH: 770-433-6190  
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A NEW BUILDING FOR:  
DALTON POLICE DEPARTMENT  
WHITFIELD COUNTY  
DALTON, GA 30720

REGISTERED PROFESSIONAL ENGINEER  
No. 22563  
PRESTON W. HOBBY  
GSIWCC LEVEL II - 0000008686

SHEET INDEX  
EROSION CONTROL FINAL PLAN  
SHEET INDEX  
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SPECIES	Rate per 1000 S.F.	Rate per Acre	PLANTING DATES		
			Mountain	Piedmont	Coastal
Bermuda, Common Unhulled Seed	0.2 LB	10 LB	NO	10/1-3/1	11/1-2/1
Bermuda, Common Hulled Seed	0.2 LB	10 LB	NO	3/1-8/1	2/15-8/1
Lespedeza, Sericea Unscarified	1.7 LB	75 LB	1/1-12/1	1/1-12/1	1/1-12/1
Lespedeza Unscarified	1.7 LB	75 LB	1/1-12/1	1/1-12/1	1/1-12/1
Lovegrass, Weeping	0.1 LB	4.0 LB	3/15-6/15	3/1-6/15	2/1-6/15
Fescue, Tall	1.1 LB	50 LB	8/1-11/1	8/15-11/1	NO
Switchgrass	1.0 lb	40 lb	3/15-6/1	3/15-6/1	3/15-6/1
Bahia	1.4 lb	60 lb	1/1-12/1	1/1-12/1	1/1-12/1

SPECIES	Rate per 1000 S.F.	Rate per Acre	PLANTING DATES		
			Mountain	Piedmont	Coastal
RYE	3.9 LB	168 LB	8/1-12/1	9/1-1/1	10/1-3/1
Ryegrass, Annual	1.0 LB	40 LB	8/1-5/1	8/1-4/1	9/1-4/1
Millet, Browntop	1.0 lb	40 lb	4/1-6/1	4/1-7/1	4/1-7/1
Lovegrass, Weeping	0.1 lb	4.0 lb	3/1-6/1	3/1-6/1	2/1-6/1
Lespedeza, Annual	1.0 LB	40 LB	2/1-5/1	2/1-5/1	1/1-3/15
WHEAT	4.1 LB	180 LB	9/1-12/1	9/1-12/1	9/15-2/1
Millet, Pearl	1.1 lb	50 lb	5/1-7/1	4/15-9/1	4/1-9/1
BARLEY	3.3 LB	144 LB	8/15-11/15	8/15-12/15	9/1-12/1

FERTILIZER REQUIREMENTS				
SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE
Cool season grasses	First	6-12-12	1500 lbs/ac	50-100 lbs/ac 1/2/
	Second Maintenance	6-12-12	1000 lbs/ac	-
Cool season grasses and legumes	First	6-12-12	1500 lbs/ac	50-100 lbs/ac 1/
	Second Maintenance	0-10-10	400 lbs/ac	-
Ground covers	First	10-10-10	1300 lbs/ac 3/	-
	Second Maintenance	10-10-10	1300 lbs/ac 3/	-
Pine seedlings	First	20-10-5	one 21-gram pellet per seeding placed in closing hole	-
Shrub Lespedeza	First	0-10-10	700 lbs/ac	-
	Maintenance	0-10-10	700 lbs/ac 4/	-
Temporary cover crops seeded alone	First	10-10-10	500 lbs/ac	30 lbs/ac 5/
Warm season grasses	First	6-12-12	1500 lbs/ac	50-100 lbs/ac 2/6/
	Second Maintenance	6-12-12	800 lbs/ac	50-100 lbs/ac 2/
Warm season grasses and legumes	First	6-12-12	1500 lbs/ac	50 lbs/ac 6/
	Second Maintenance	0-10-10	1000 lbs/ac	-

**LIME AND FERTILIZER:**

- AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE. APPLY AGRICULTURAL LIME AT A RATE OF ONE TON PER ACRE. GRADED AREAS REQUIRE LIME APPLICATION.
- SOILS CAN BE TESTED TO DETERMINE IF FERTILIZER IS NEEDED. ON REASONABLY FERTILE SOILS, FERTILIZER IS NOT REQUIRED. FOR SOILS OF VERY LOW FERTILITY, USE 500 TO 700 POUNDS OF 10-10-10 FERTILIZER OR THE EQUIVALENT PER ACRE (12-16 LBS./1000 SQ. FT.). FERTILIZER SHOULD BE APPLIED BEFORE LAND PREPARATION AND INCORPORATED WITH A DISK, RIP, OR CHISEL.

**MULCHING:**

- TEMPORARY VEGETATION CAN, IN MOST CASES, BE ESTABLISHED WITHOUT THE USE OF MULCH. MULCH WITHOUT SEEDING SHOULD BE CONSIDERED FOR SHORT TERM PROTECTION. SEE Ds1, DISTURBED AREA STABILIZATION (MULCHING ONLY).

**Ds2 DISTURBED AREA STABILIZATION (TEMPORARY SEEDING)**

REFER TO THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR FURTHER DETAILS, LIME & FERTILIZER RATES, AND SPECIFICATIONS.

**FOR TEMPORARY PROTECTION OF CRITICAL AREAS:**

**MULCHING MATERIALS:**

- Dry straw or hay—spread at a rate of 2 1/2 tons per acre.
- Wood waste, chips, sawdust or bark—spread 2 to 3 inches deep (about 6 to 9 tons per acre.)
- Erosion control matting or netting, such as excelsior, jute, textile and plastic matting and netting—applied in accordance with manufacturer's specifications.
- Polyethylene film—secured over banks or stockpiled soil material for temporary protection.

**APPLYING AND ANCHORING MULCH:**

- Apply straw or hay mulch uniformly or by hand or mechanically. Anchor as appropriate and feasible. It may be pressed into the soil with a disk harrow with the disk set straight or with a special "packer disk." The disk may be smooth or serrated and should be 20 inches or more in diameter and 8 to 12 inches apart. The edges of the disk should be dull enough not to cut the mulch but to press it into the soil leaving much of it in an erect position.
- Spread wood waste uniformly on slopes that are 3:1 or flatter. No anchoring is needed.
- Commercial matting and netting: Follow manufacturer's specification included with the material.
- Apply asphalt so area has uniform appearance (do not use in pedestrian traffic areas.)

**TO CONSERVE MOISTURE AND CONTROL WEEDS:**

- Grain straw or grass hay: 6" to 10" depth
- Pine needles: 4" to 6" depth
- Wood waste: 4" to 8" depth
- Shredded residues: 4" to 8" depth

When using organic mulches, apply 20-30 pounds of nitrogen in addition to the normal amount needed for plant growth to offset the tie up of N by the decomposition of mulch.

**Ds1 DISTURBED AREA STABILIZATION (MULCHING ONLY)**

REFER TO THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR FURTHER DETAILS, LIME & FERTILIZER RATES, AND SPECIFICATIONS.

**LIME RATES AND ANALYSIS:**

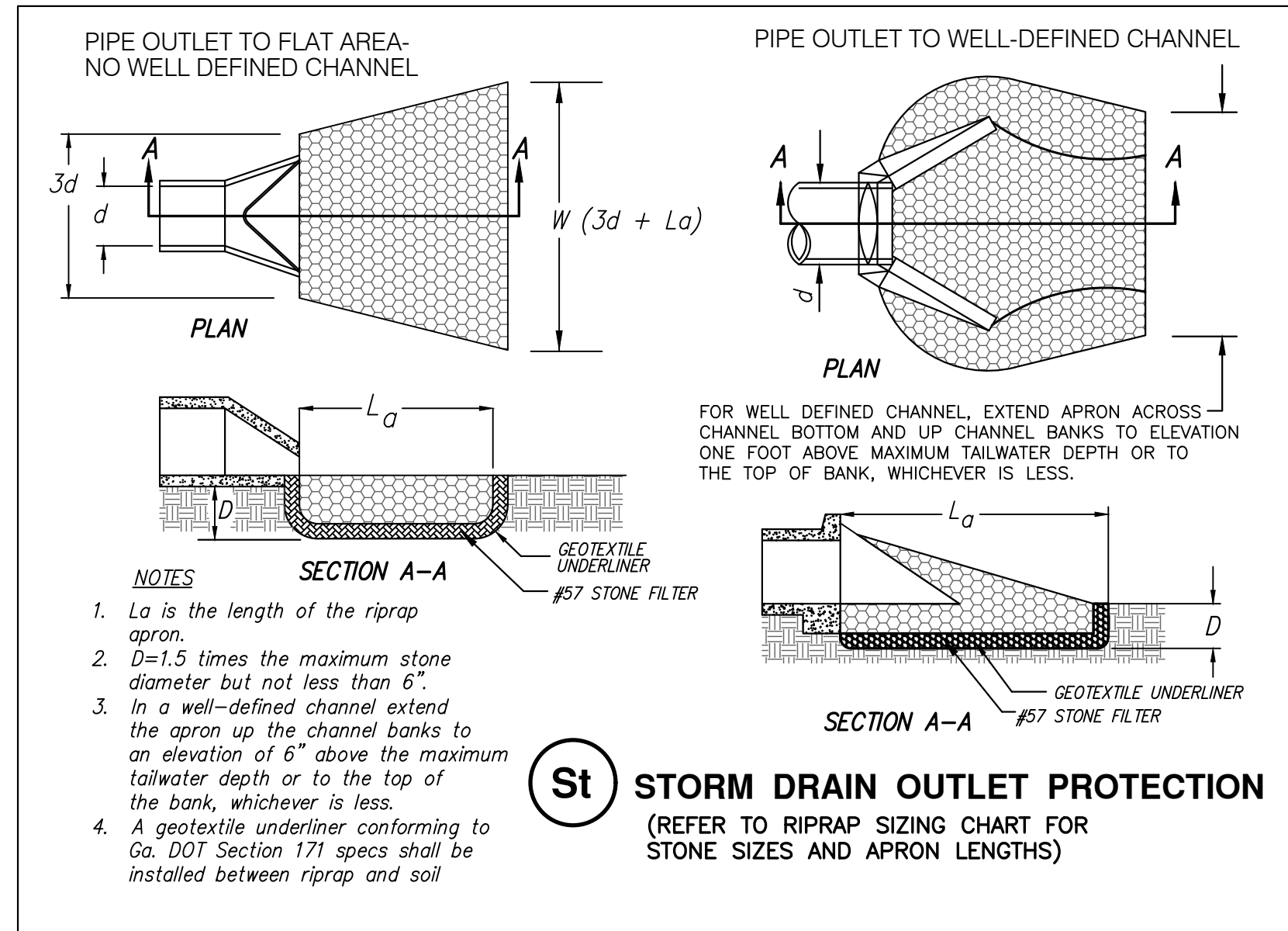
- WHERE PERMANENT VEGETATION IS TO BE ESTABLISHED, AGRICULTURAL LIME SHALL BE APPLIED AS INDICATED BY SOIL TESTS OR AT THE RATE OF 1-2 TONS PER ACRE. AGRICULTURAL LIME SHALL BE WITHIN THE SPECIFICATIONS OF THE GEORGIA DEPARTMENT OF AGRICULTURE.
- LIME SPREAD BY CONVENTIONAL EQUIPMENT SHALL BE CALCIC OR DOLOMITIC GROUND LIMESTONE GROUND SO THAT 90% OF THE MATERIAL WILL PASS THROUGH A 10-MESH SIEVE, NOT LESS THAN 50% WILL PASS THROUGH A 50-MESH SIEVE, AND NOT LESS THAN 25% WILL PASS THROUGH A 100-MESH SIEVE.
- LIME SPREAD BY HYDRAULIC SEEDING SHALL BE CALCIC OR DOLOMITIC "FINELY GROUND LIMESTONE", GROUND SO THAT 98% OF THE MATERIAL WILL PASS THROUGH A 20-MESH SIEVE, AND NOT LESS THAN 70% WILL PASS THROUGH A 100-MESH SIEVE.
- IT IS DESIRABLE TO USE DOLOMITIC LIMESTONE IN THE SAND HILLS, SOUTHERN COASTAL PLAIN, AND ATLANTIC COAST FLATWOODS MLRA'S.

**MULCHING RATES:**

- USE MULCH ON ALL SLOPES STEEPER THAN 3 PERCENT; WHERE SEEDLINGS ARE MADE SO LATE IN THE FALL AND WINTER THAT GERMINATION CANNOT BE EXPECTED UNTIL SPRING; IN THE BOTTOM OF SPILLWAYS, AND ON ROADBANKS;
- USE DRY STRAW OR DRY HAY OF GOOD QUALITY AND FREE OF WEED SEEDS. DRY STRAW WILL BE APPLIED AT THE RATE OF 2 TONS PER ACRE. DRY HAY WILL BE APPLIED AT THE RATE OF 2 1/2 TONS PER ACRE; OR,
- FOR HYDRAULIC SEEDING, USE WOOD CELLULOSE MULCH OR WOOD PULP FIBER AT THE RATE OF 500 POUNDS PER ACRE, AND DRY STRAW OR DRY HAY AT THE RATE LISTED ABOVE; OR,
- USE THREE TONS PER ACRE OF SERICEA LESPEDEZA HAY CONTAINING MATURE SEED; OR,
- APPLY PINE STRAW OR PINE BARK AT A THICKNESS OF 3 INCHES. OTHER SUITABLE MATERIALS IN SUFFICIENT QUANTITY MAY BE USED WHERE ORNAMENTALS OR OTHER GROUND COVERS ARE PLANTED; OR,
- SOIL RETENTION BLANKETS, EROSION CONTROL NETTING, OTHER MANUFACTURED MATERIALS, OR BLOCK SOD MAY BE REQUIRED IN ADDITION TO MULCH ON UNSTABLE SOILS AND CONCENTRATED FLOW AREAS.

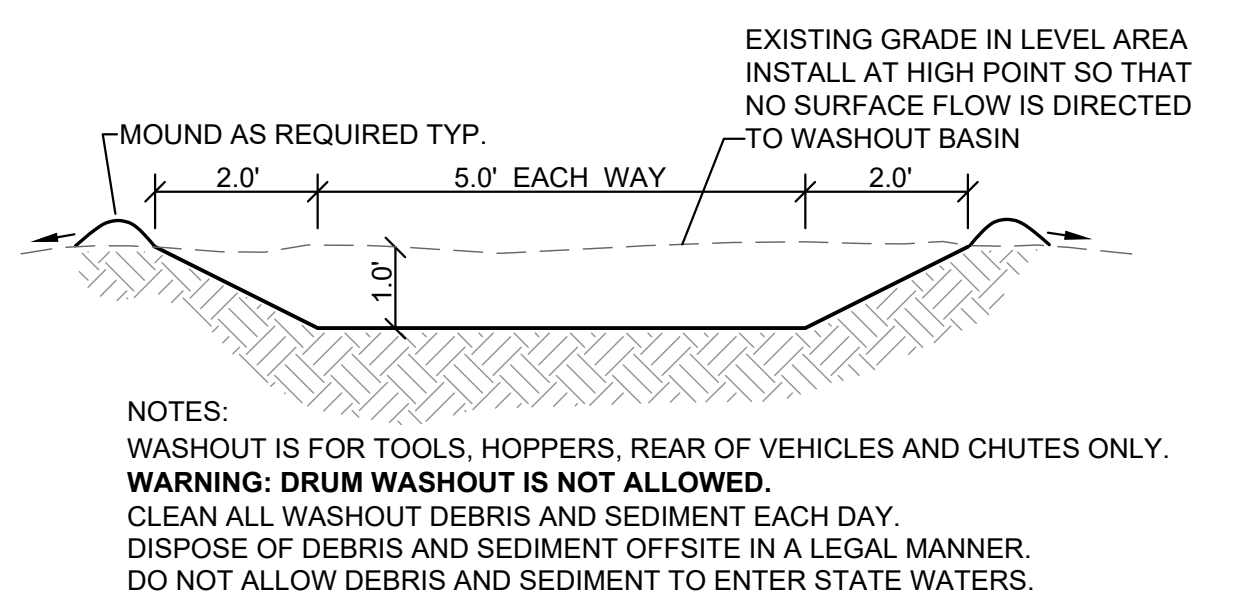
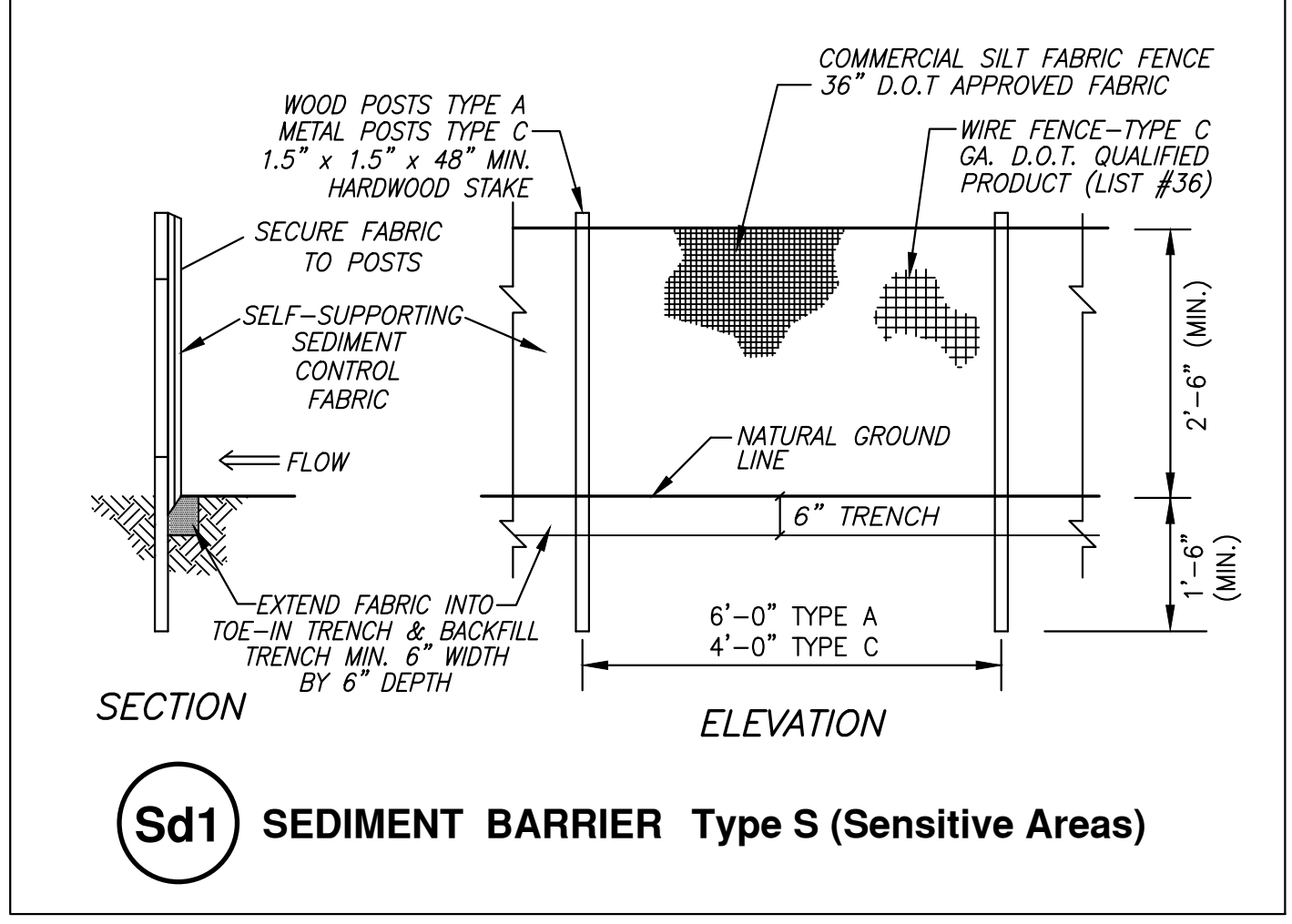
**Ds3 DISTURBED AREA STABILIZATION (PERMANENT SEEDING)**

REFER TO THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR FURTHER DETAILS, LIME & FERTILIZER RATES, AND SPECIFICATIONS.

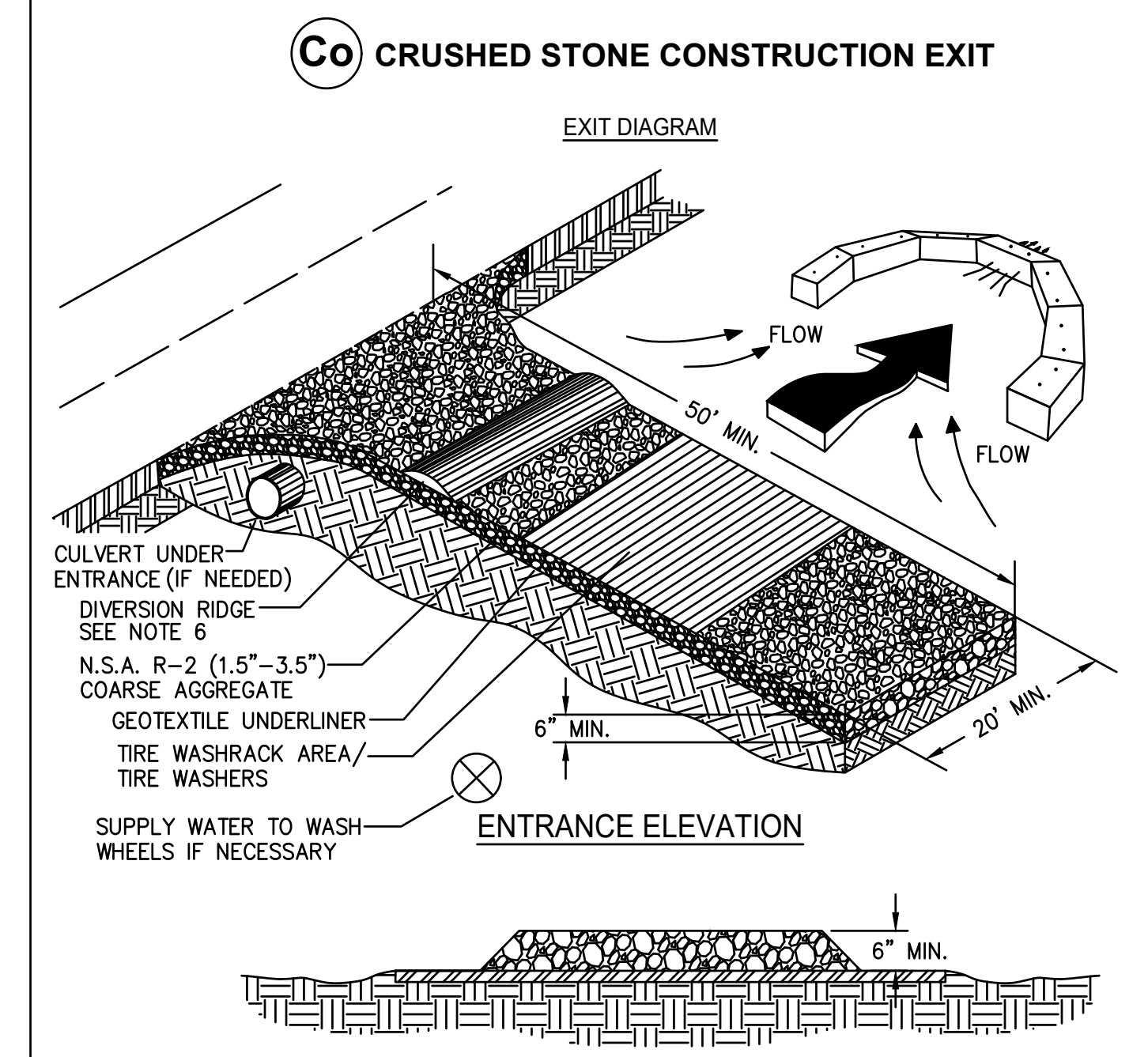


**St STORM DRAIN OUTLET PROTECTION**

(REFER TO RIPRAP SIZING CHART FOR STONE SIZES AND APRON LENGTHS)

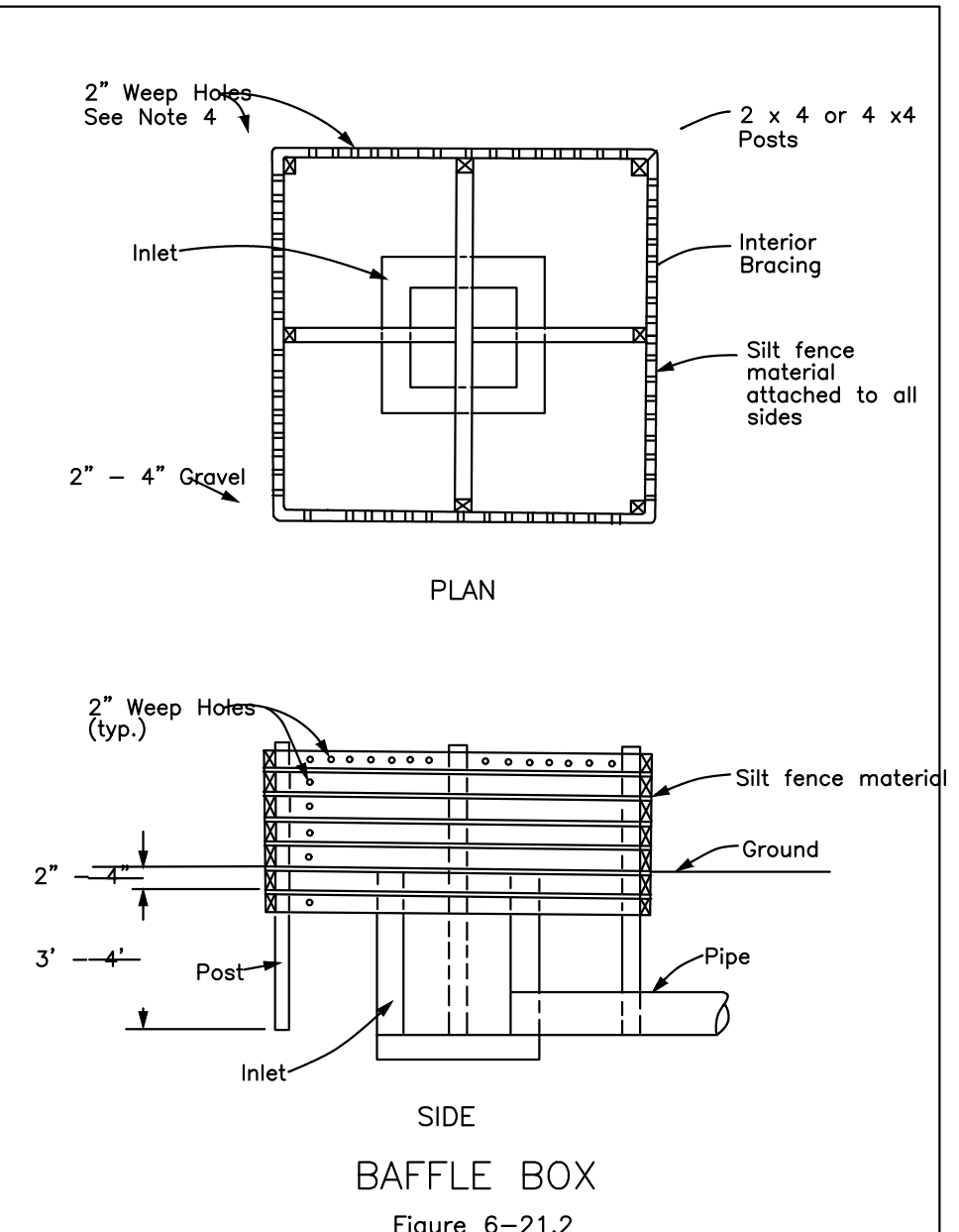
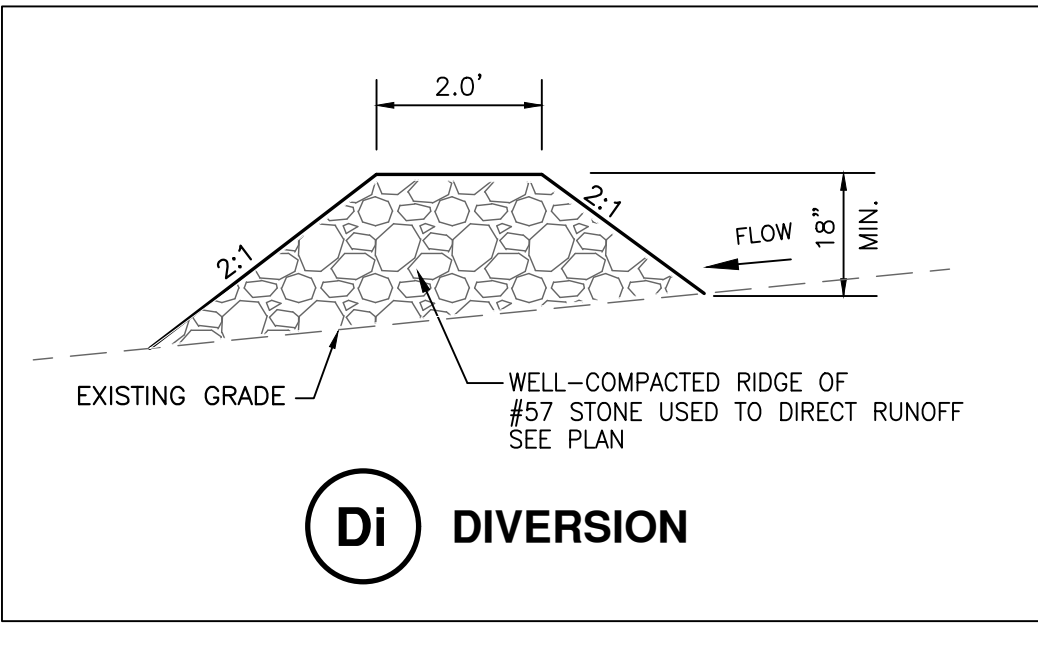


**Cw CONCRETE WASHOUT**

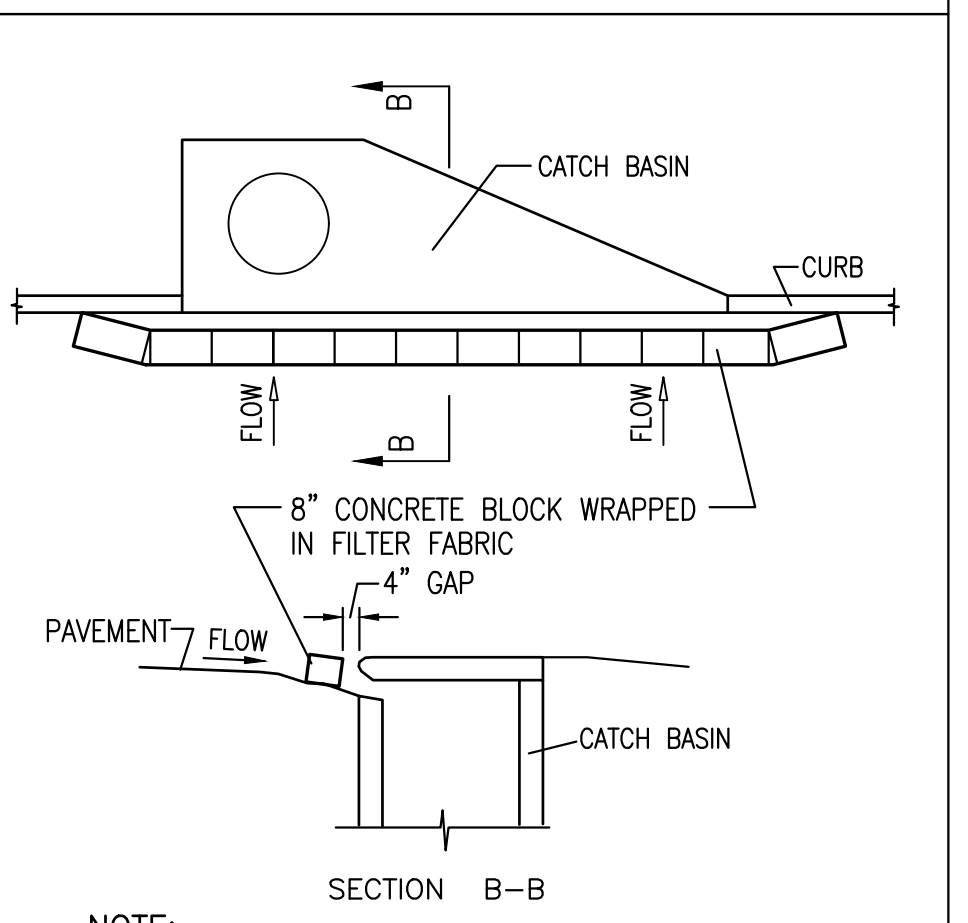


**NOTES:**

- AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
- REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
- AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
- GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
- PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
- A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
- INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
- WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
- WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
- MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.



**Sd2-B INLET SEDIMENT TRAP**



**NOTE:** INSTALL FILTER AFTER ANY PAVEMENT INSTALLATION

**CURB INLET FILTER**  
"PIGS IN BLANKET"

**Sd2-P INLET SEDIMENT TRAP**

**Sd2 MAINTENANCE:**  
INSPECT DAILY AND AFTER EACH RAIN EVENT. REMOVE SEDIMENT IMMEDIATELY FROM CURB INLET PROTECTION. REPAIR AS REQUIRED FOR PROPER FUNCTION.

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REVISIONS	
NO.	DATE

FACILITY CODE



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SUITE FOUR  
DALTON, GA 30721  
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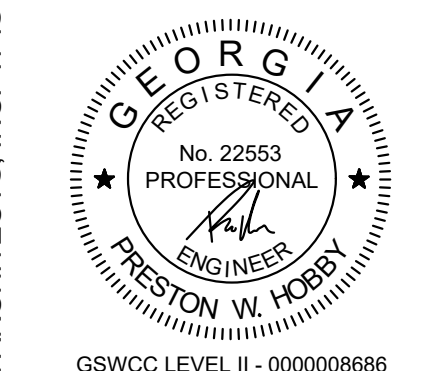
**POWER ENGINEERING**  
CIVIL ENGINEERING  
SITE DEVELOPMENT

2900 DELAWARE AVE STE 700 #318 • MARIETTA, GA 30067 • PH: 770-433-6190

301 JONES STREET DALTON, GA 30720 WHITFIELD COUNTY, GA

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GSWCC LEVEL II - 0000008686

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EROSION CONTROL NOTES

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Table C-1 Graded Rip-Rap Stone

Flow Velocity (ft./sec.)	N.S.A. No. <sup>1</sup>	Size Inches (Sq. Opening)			Filter Stone N.S.A. No. <sup>1</sup>
		Max.	Avg. <sup>2</sup>	Min.	
2.5	R-1	1 1/2	3/4	No. 8	FS-1
4.5	R-2	3	1 1/2	1	FS-1
6.5	R-3	6	3	2	FS-2
9.0	R-4	12	6	3	FS-2
11.5	R-5	18	9	5	FS-2
13.0	R-6	24	12	7	FS-3
14.5	R-7	30	15	12	FS-3

<sup>1</sup> National Stone Association

<sup>2</sup> At least 50% of the individual stone particles must be equal or larger than this listed size

Table C-2. Fitter Bedding Stone

N.S.A. No. <sup>1</sup>	Size Inches (Sq. opening)			Min. <sup>2</sup>
	Max.	Avg. <sup>2</sup>	#	
FS-1	3/8	#30 mesh		#100 mesh
FS-2	2	#4		#100 mesh
FS-3	6 1/2	2 1/2		#16

GSWCC (Amended - 2013)

<sup>1</sup> National Stone Association

<sup>2</sup> At least 50% of the individual stone particles must be equal or larger than this listed size

<sup>3</sup> 85 - 100% of the individual stone particles may be less than listed size

Table C-3. Graded Rip-Rap Stone

D.O.T. No. <sup>1</sup>	Size inches (Sq. opening)			Common Uses
	Max.	Avg.	Min.	
Type 3	12	9	5	Creek Banks Pipe Outlets
Type 1	24	12	7	Lakes & Shorelines Rivers

Georgia Department of Transportation

Table C-4. Filter Bedding Stone

D.O.T. No. <sup>1</sup>	Nominal Sizes (inches)	
	Min.	Max.
3	2" - 1"	
4	1 1/2" - 3/4"	
5	1" - 1/2"	
6	3/4" - 3/8"	
57	1" - No. 4	

Georgia Department of Transportation

GSWCC (Amended - 2013)

Table C-1 Graded Rip-Rap Stone

Flow Velocity (ft./sec.)	N.S.A. No. <sup>1</sup>	Size Inches (Sq. Opening)			Filter Stone N.S.A. No. <sup>1</sup>
		Max.	Avg. <sup>2</sup>	Min.	
2.5	R-1	1 1/2	3/4	No. 8	FS-1
4.5	R-2	3	1 1/2	1	FS-1
6.5	R-3	6	3	2	FS-2
9.0	R-4	12	6	3	FS-2
11.5	R-5	18	9	5	FS-2
13.0	R-6	24	12	7	FS-3
14.5	R-7	30	15	12	FS-3

GSWCC (Amended - 2013)

**Du** DUST CONTROL ON DISTURBED AREAS



**DEFINITION**  
Controlling surface and air movement of dust on construction sites, roads, and demolition sites.

**PURPOSE**  
-To prevent surface and air movement of dust from exposed soil surfaces.  
-To reduce the presence of airborne substances that may be harmful or injurious to human health, welfare, or safety, or to animals or plant life.

**CONDITIONS**  
This practice is applicable to areas subject to surface and air movement of dust where on and off-site damage may occur without treatment.

**METHOD AND MATERIALS**  
A. Temporary Methods  
Mulches. See standard Ds1 - Disturbed Area Stabilization (With Mulching Only). Synthetic resins may be used instead of asphalt to bind mulch material. Refer to specification Tac - Tackifiers. Resins should be used according to manufacturer's recommendations.

Vegetative Cover. See specification Ds2 - Disturbed Area Stabilization (With Temporary Seeding).

Spray-on Adhesives. These are used on mineral soils (not effective on muck soils). Keep traffic off these areas. Refer to specification Tac - Tackifiers.

Tillage. This practice is designed to roughen and bring clods to the surface. It is an emergency

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measure that should be used before wind erosion starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12 inches apart, spring-toothed harrows, and similar plows are examples of equipment that may produce the desired effect.

Irrigation. This is generally done as an emergency treatment. Site is sprinkled with water until the surface is wet. Repeat as needed.

Barriers. Solid board fences, snowfences, burlap fences, crate walls, bales of hay and similar material can be used to control air currents and soil blowing. Barriers placed at right angles to prevailing currents at intervals of about 15 times their height are effective in controlling wind erosion.

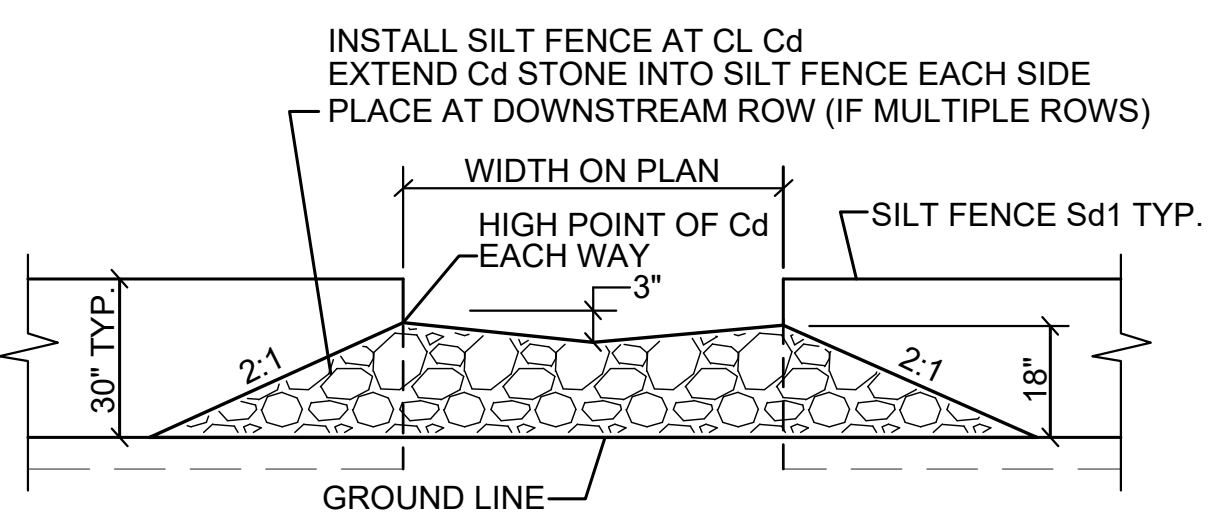
Calcium Chloride. Apply at rate that will keep surface moist. May need retreatment.

B. Permanent Methods  
Permanent Vegetation. See specification Ds3 - Disturbed Area Stabilization (With Permanent Vegetation). Existing trees and large shrubs may afford valuable protection if left in place.

Topselling. This entails covering the surface with less erosive soil material. See specification Tp - Topselling.

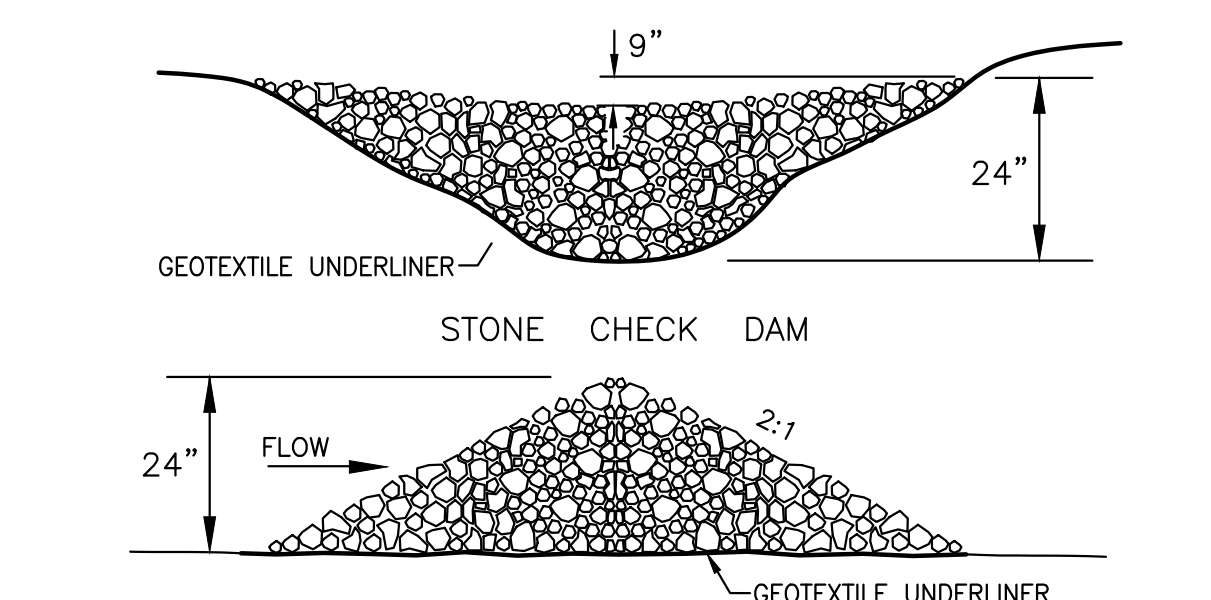
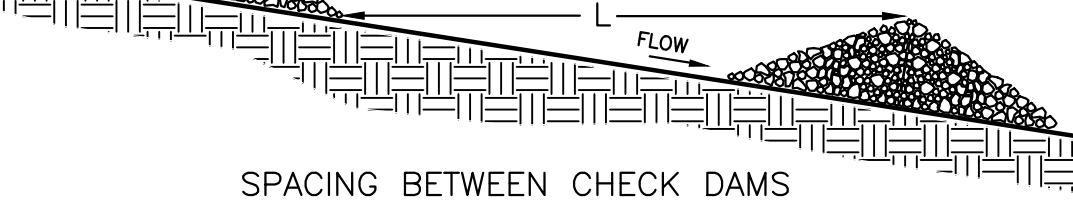
Stone. Cover surface with crushed stone or coarse gravel. See specification C-Construction Road Stabilization.

**Du** DUST CONTROL



**Cd1** CHECK DAM AT SILT FENCE ELEVATION TYP.

L = The distance such that points A and B are of equal elevation.



1. CFS IN THE CHANNEL / DITCH THE CHECK DAM IS BEING USED IN: 4-8 CFS
2. ABOVE 2.0 CFS: YES X NO
3. IF YES, LIST BMP'S BEING USED IN CONJUNCTION WITH CHECK DAMS: St, Sd1-S, Baffle, Di, Ds1, Ds2, Ds3

**Cd** CHECK DAM

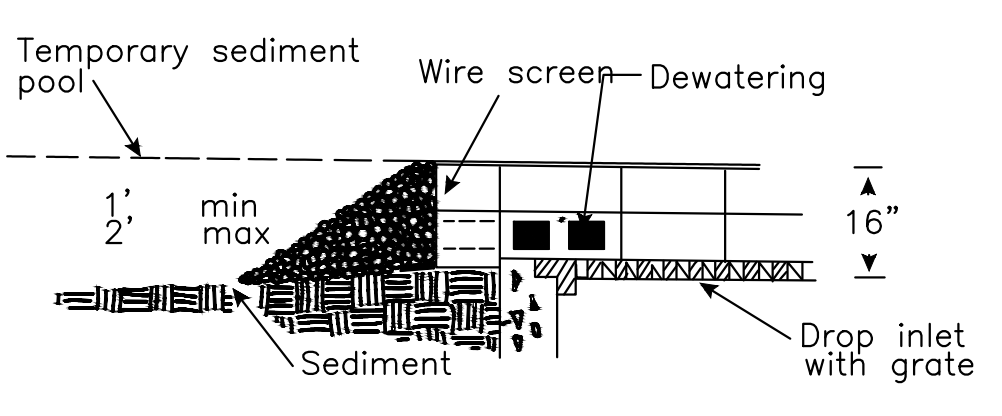
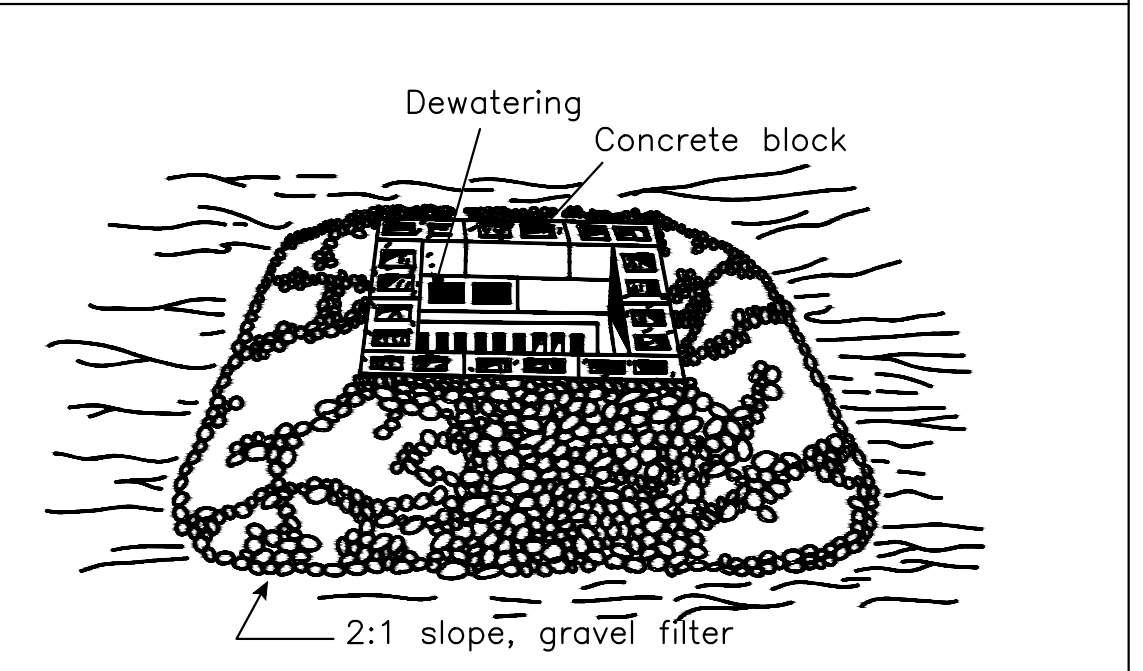
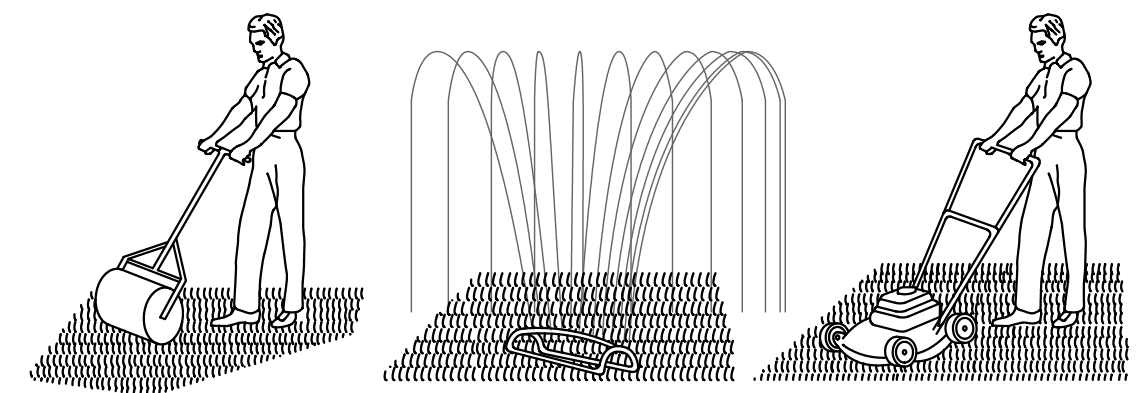
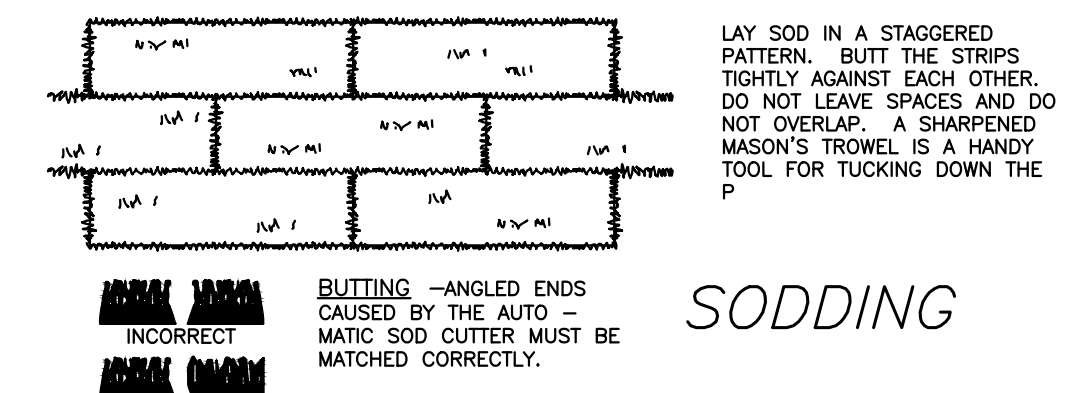
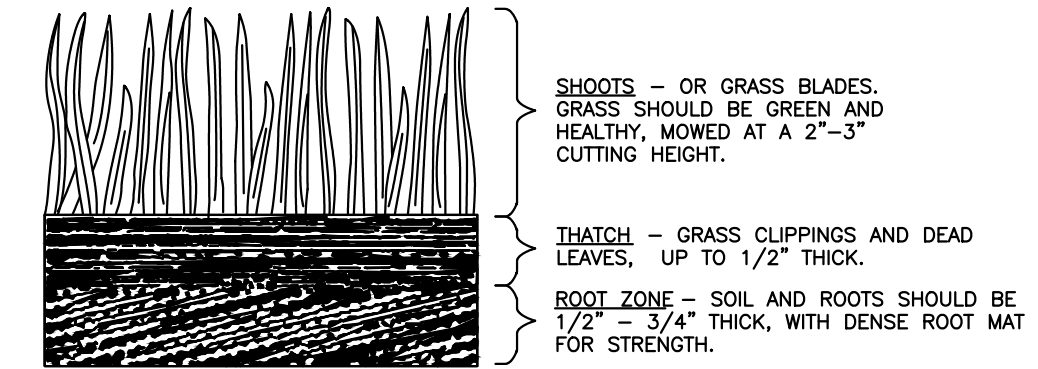


Figure 6-21.3 - Block and Gravel Drop Inlet Protection

**Sd2-G** INLET SEDIMENT TRAP

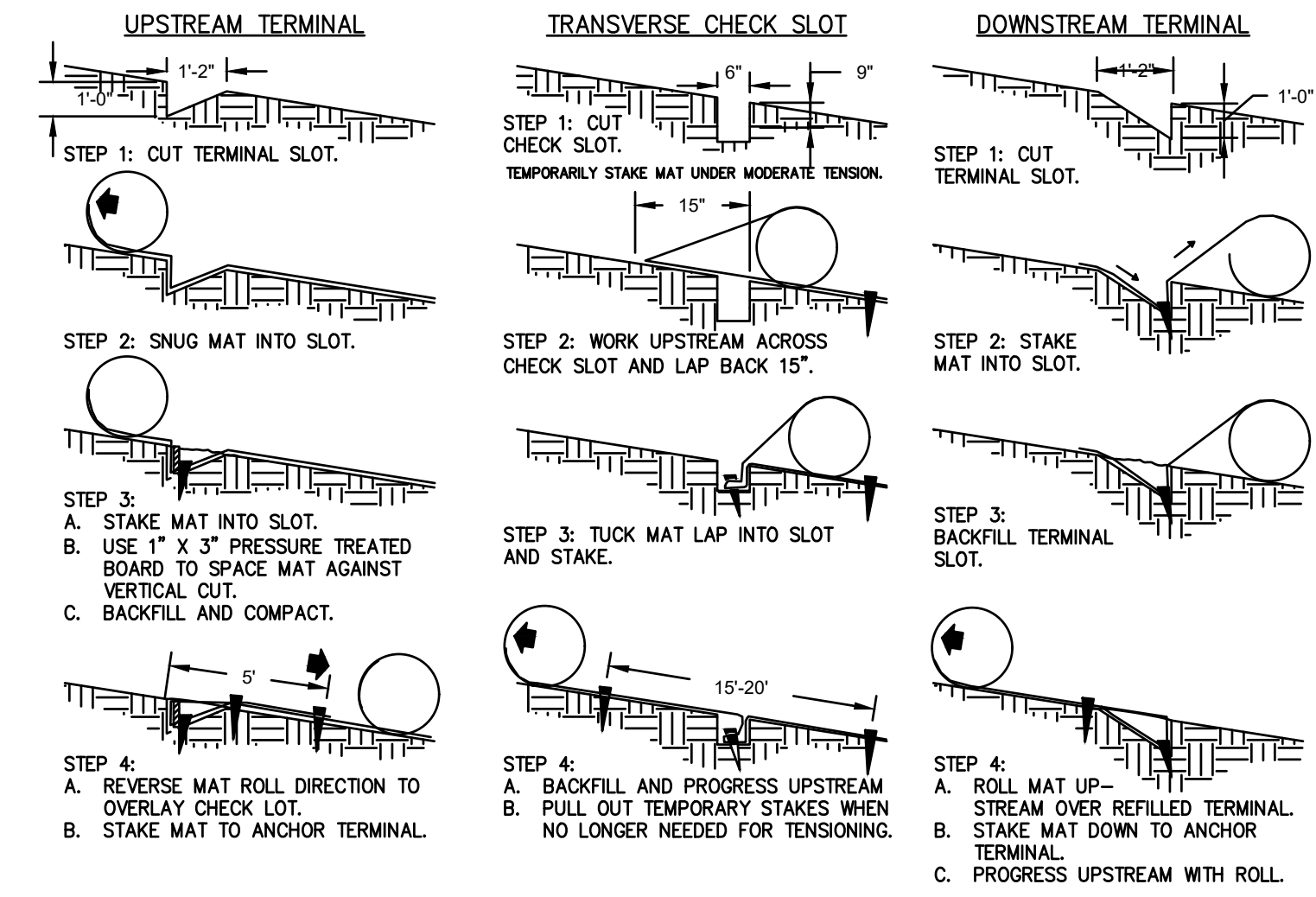


**APPEARANCE OF GOOD SOD**

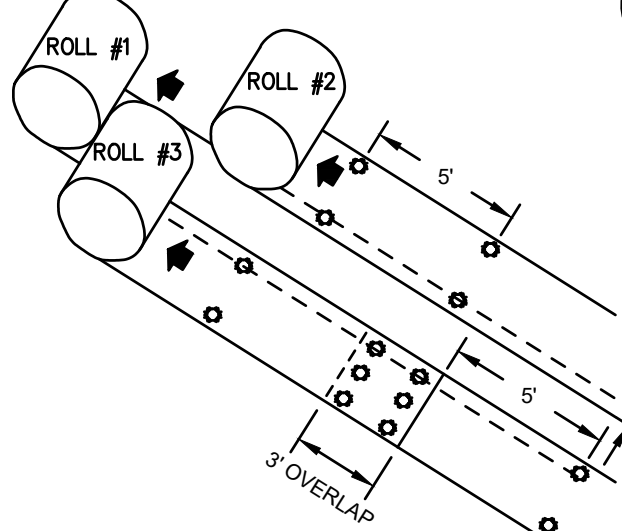


**Ds4** SODDED GRASS

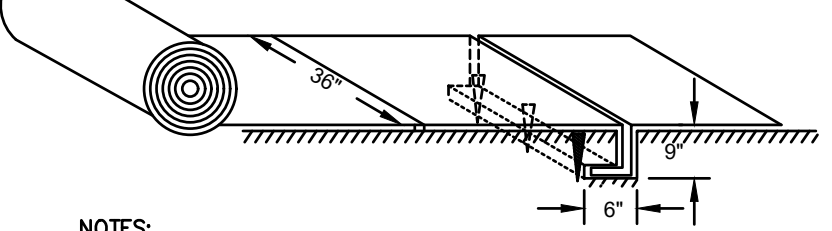
TYPICAL INSTALLATION GUIDELINES FOR ROLLED EROSION CONTROL PRODUCTS (RECP)  
BLANKET AND MATTING CROSS-SECTIONS



SEQUENTIAL ROLL RUN OUT IN CHANNELS

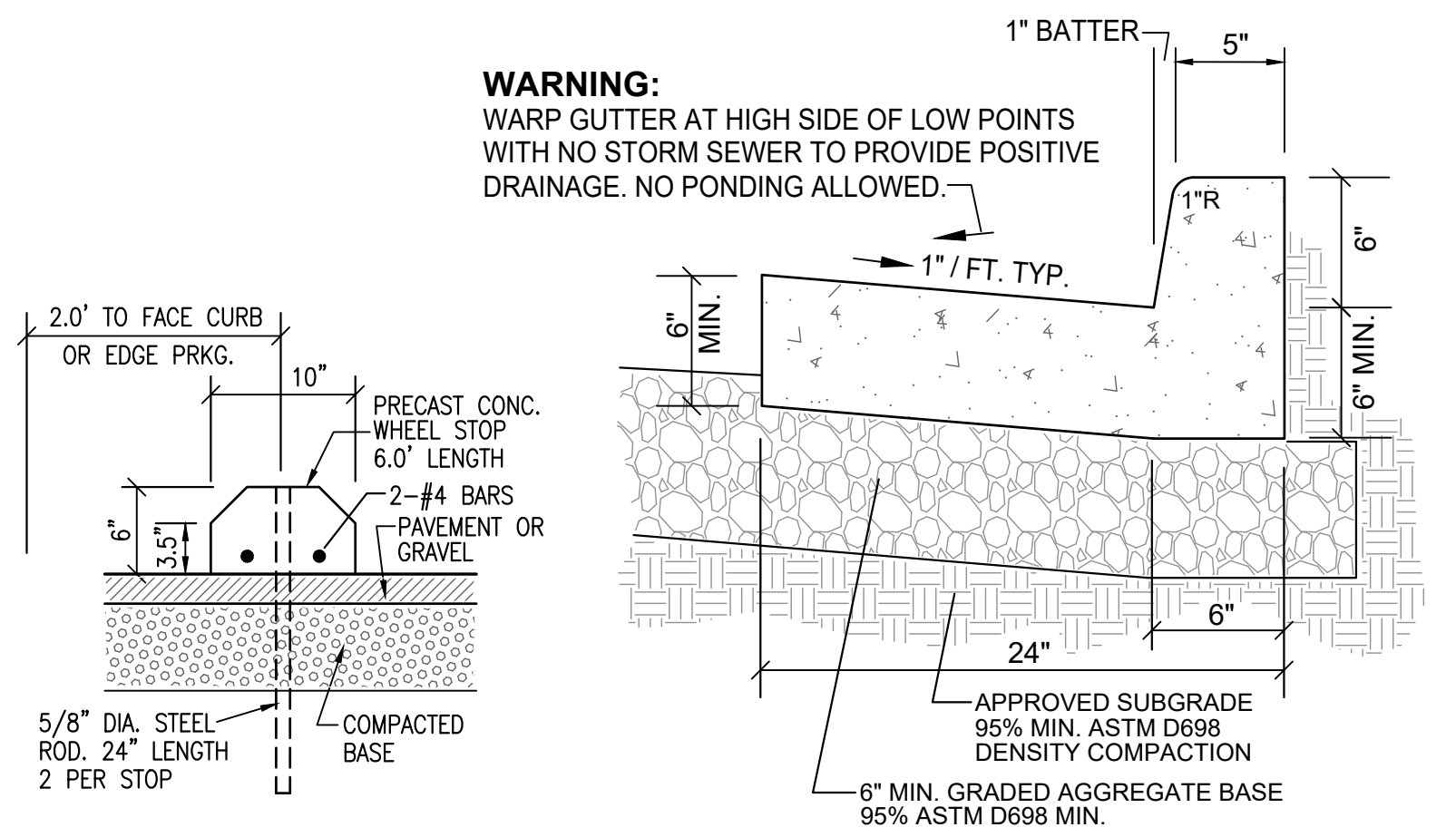


PICTORIAL VIEW OF TRANSVERSE SLOT



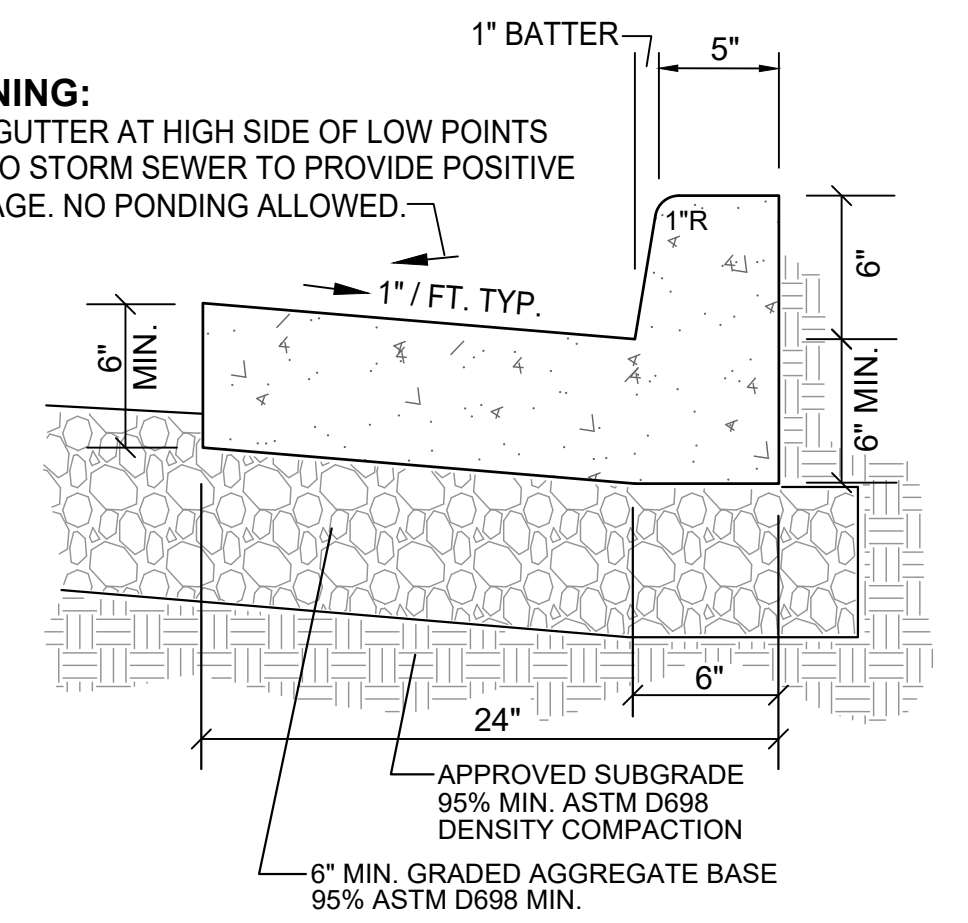
- NOTES:**
1. START AT DOWNSTREAM TERMINAL AND PROGRESS UPSTREAM.
  2. FIRST ROLL IS CENTERED LONGITUDINALLY IN MID-CHANNEL AND PINNED WITH TEMPORARY STAKES TO MAINTAIN ALIGNMENT.
  3. SUBSEQUENT ROLLS FOLLOW IN STAGGERED SEQUENCE BEHIND THE FIRST ROLL. USE THE CENTER ROLL FOR ALIGNMENT TO THE CHANNEL CENTER.
  4. WORK OUTWARDS FROM THE CHANNEL CENTER TO THE EDGE.
  5. USE 3" OVERLAPS AND STAKE AT 5' INTERVALS ALONG THE SEAMS.
  6. USE 3" OVERLAPS AND SHINGLE DOWNSTREAM TO CONNECT THE LINING AT THE ROLL ENDS.
  7. NOTE: ALL RECP'S SHALL BE SHORT TERM BIODEGRADABLE.

**Ss** SLOPE STABILIZATION



**(WS) WHEEL STOPS**

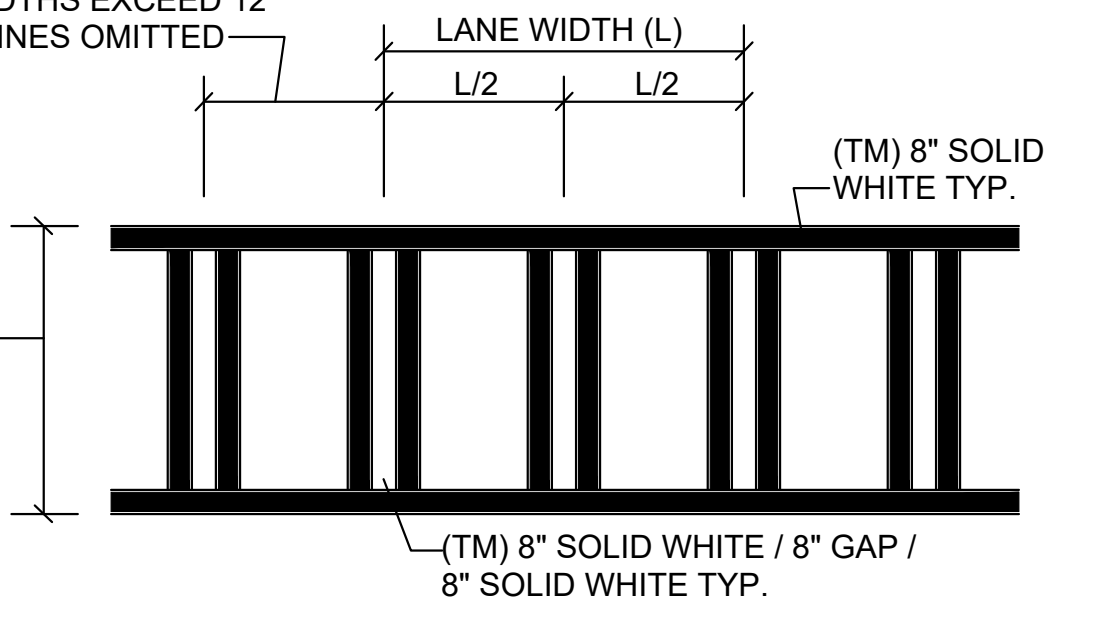
**WARNING:**  
WARP GUTTER AT HIGH SIDE OF LOW POINTS WITH NO STORM SEWER TO PROVIDE POSITIVE DRAINAGE. NO PONDING ALLOWED.



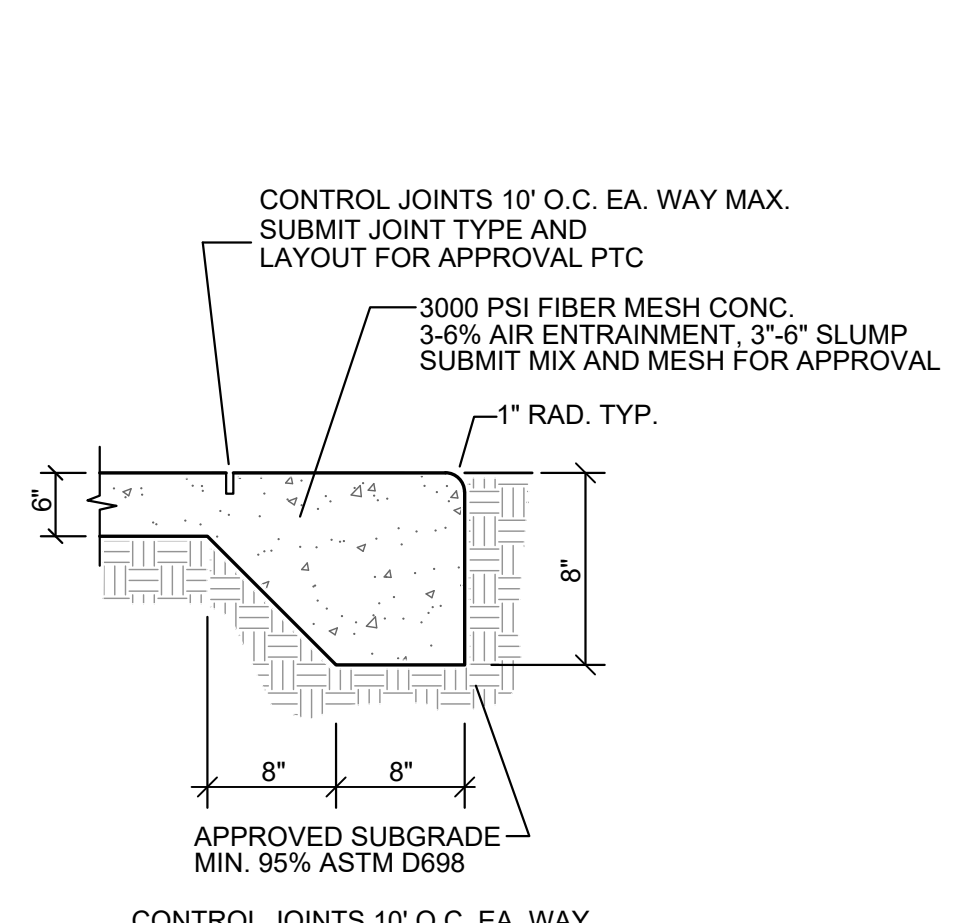
1/2" PREFORMED EXPANSION JOINTS REQUIRED AT TANGENT POINTS OF RADIUS RETURNS. CONSTRUCTION JOINTS REQUIRED AT MAXIMUM SPACING OF 12.0 FEET ON CENTER.

**(CG) VERTICAL FACE CURB**

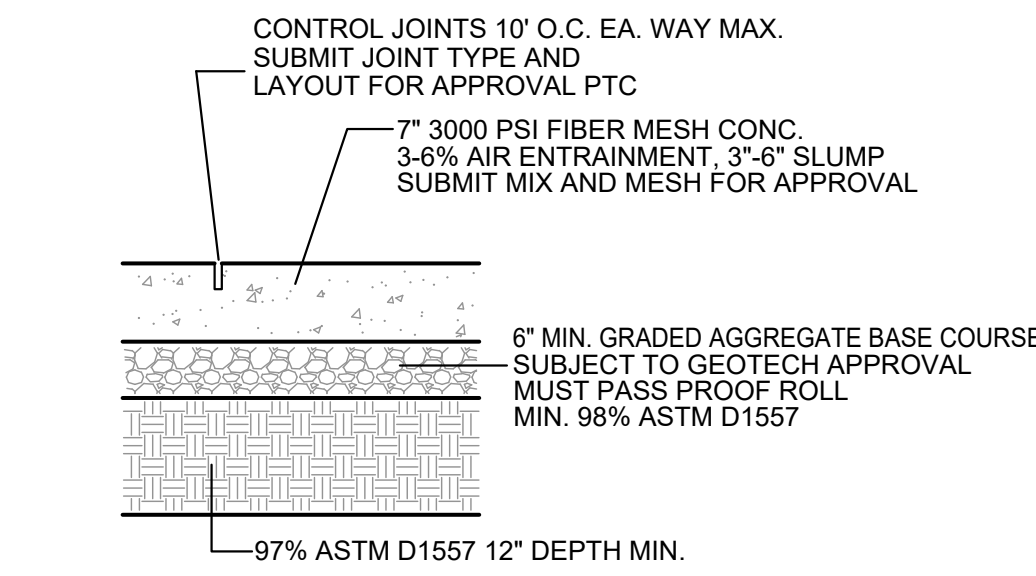
NOTE:  
5' WHERE LANE WIDTHS EXCEED 12' OR WHERE LANE LINES OMITTED



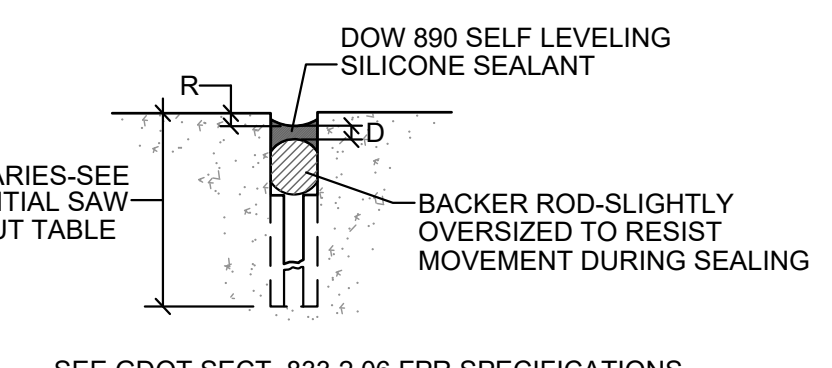
**(CW) CROSSWALK**



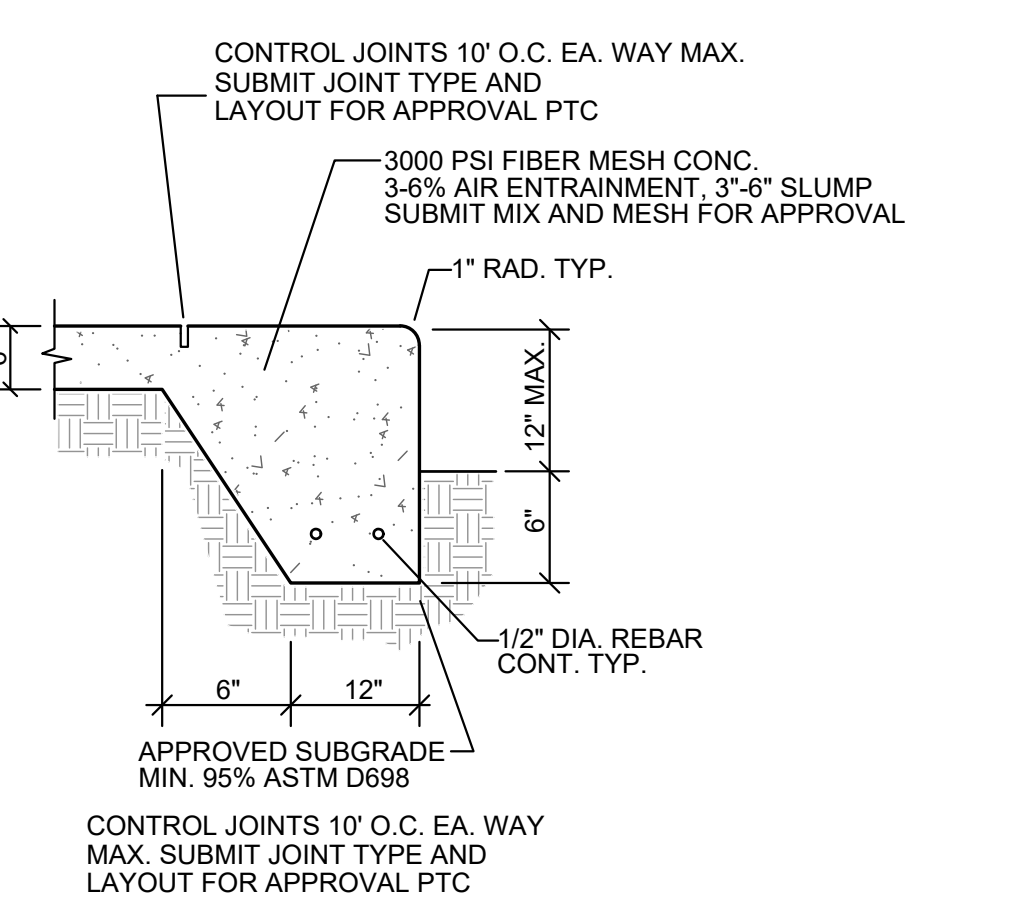
**(CP2) CONCRETE PAD**



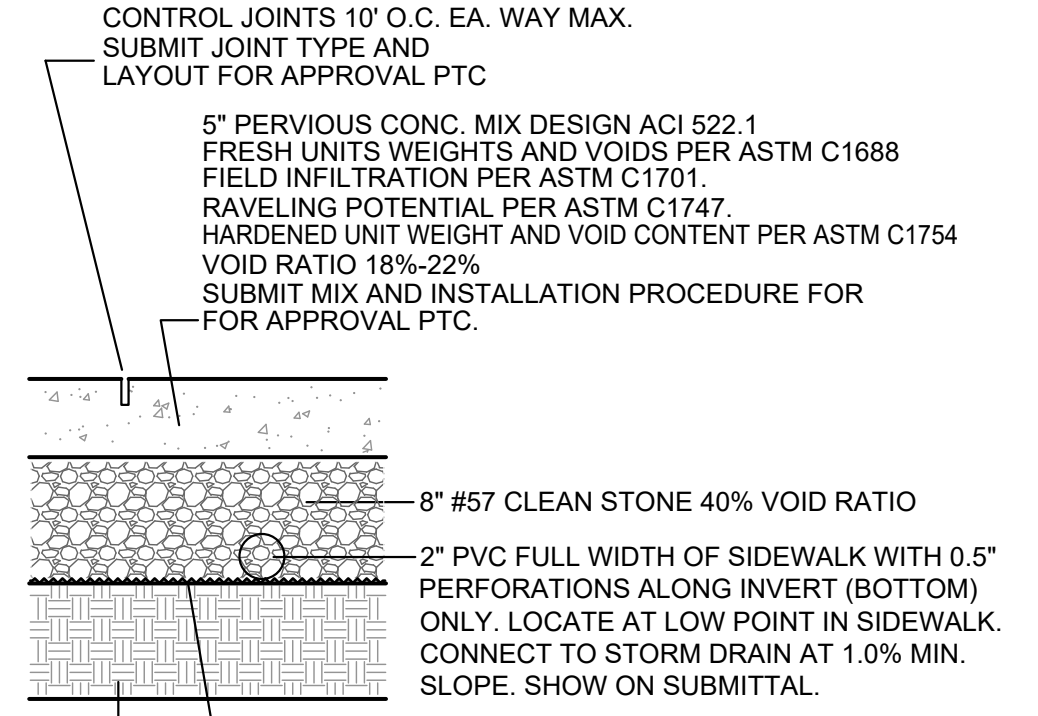
**(CP1) CONCRETE PAVEMENT**



**JOINT SEALANT DETAIL**



**(CP3) CONCRETE PAD**

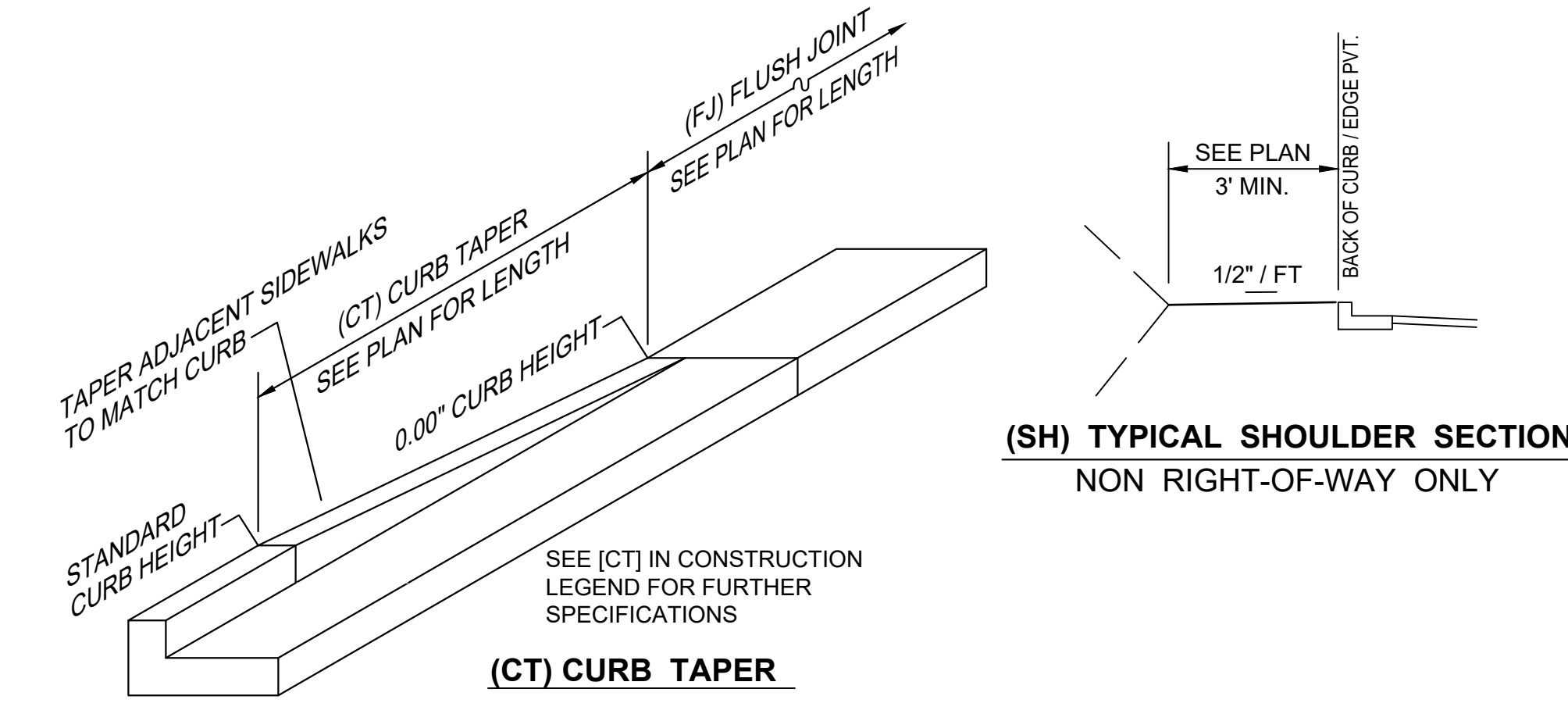


NRMCA PERVIOUS CONCRETE CONTRACTOR CERTIFICATION REQUIRED. PREPLACEMENT MEETING REQUIRED WITH OWNER'S REP AND ENGINEER. 5' X 5' MOCKUP SECTION REQUIRED FOR PREPLACEMENT MEETING.

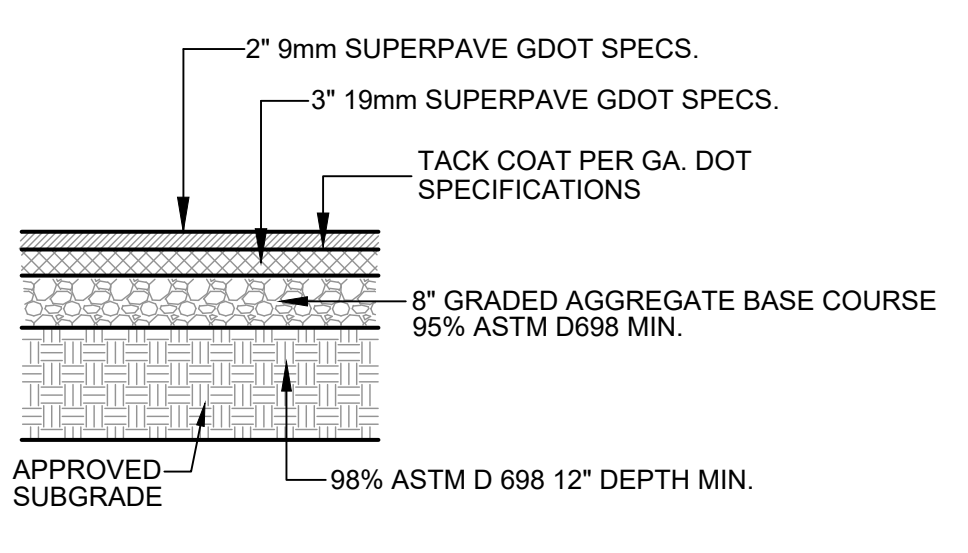
**(CP4) PERVIOUS CONCRETE PAVEMENT**

**(TM) SIGN AND PAVEMENT TRAFFIC MARKING LEGEND**

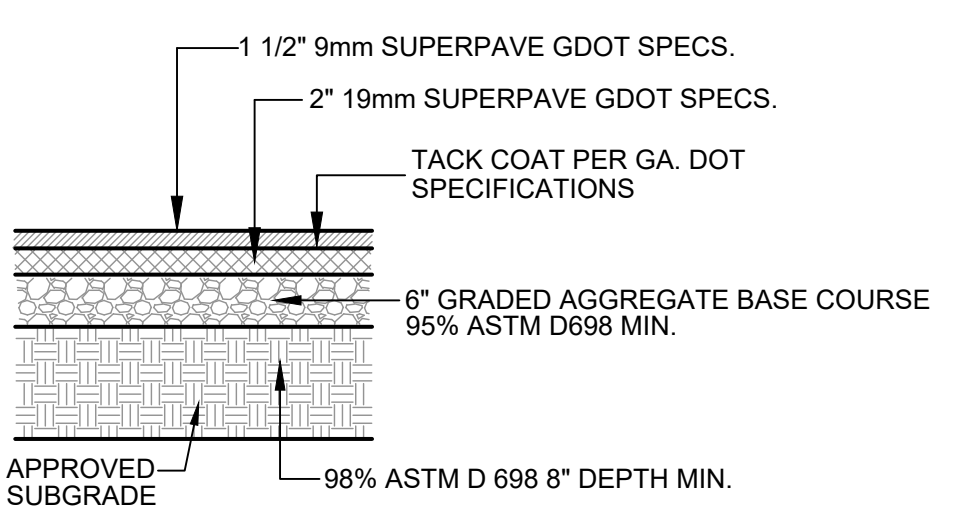
- ALL MATERIALS, COLORS, AND CONSTRUCTION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS, SECTION 636, AND RELATED SECTIONS.
- ALL PAVEMENT MARKINGS, MARKERS, ARROWS, PAINT, MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS.
- ALL TRAFFIC LANE MARKINGS, MATERIAL, AND CONSTRUCTION SHALL CONFORM TO THE CURRENT GEORGIA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS.



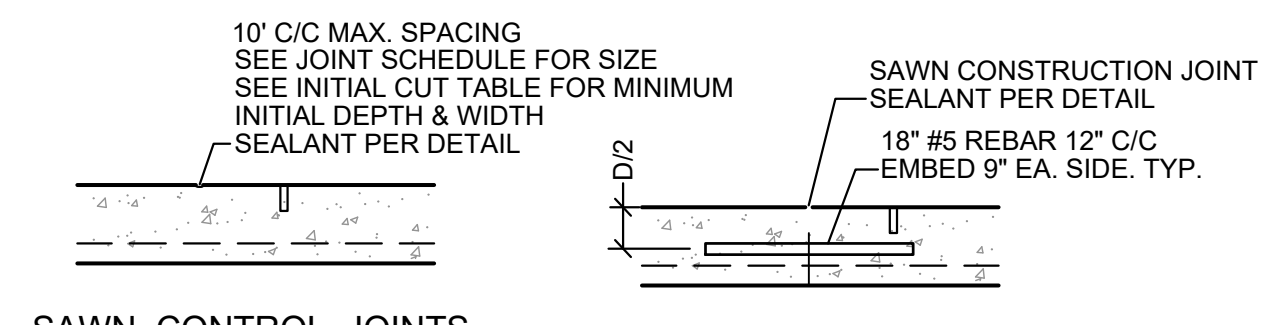
**(SH) TYPICAL SHOULDER SECTION**  
NON RIGHT-OF-WAY ONLY



**(AP2) HEAVY DUTY ASPHALT PAVEMENT**



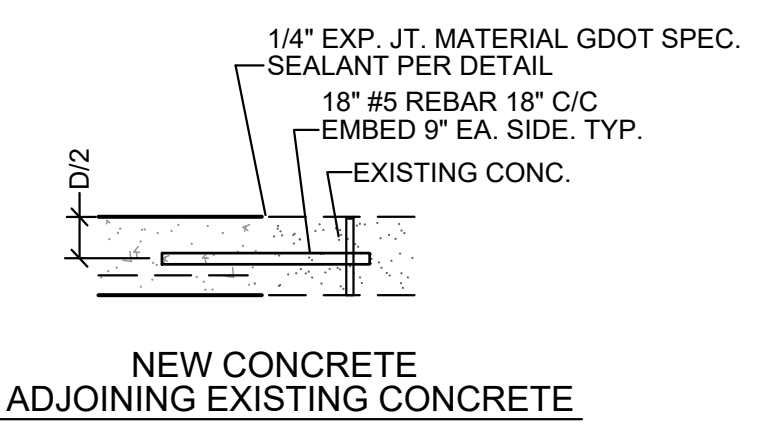
**(AP1) ASPHALT PAVEMENT**



**SAWN CONTROL JOINTS**      **FORMED CONSTRUCTION JOINT ADJOINING EXISTING CONCRETE**

REQUIRED MINIMUM FOR ALL INITIAL SAW CUTS

DEPTH OF PAVEMENT	DEPTH OF CUT	WIDTH OF CUT
6"	1 7/8"	1/8"
7"	2"	1/8"
8"	2 1/4"	1/8"
8 1/2"	2 3/8"	1/8"
9"	2 1/2"	1/8"
10"	2 3/4"	1/8"
11"	3"	1/8"
12"	3 1/4"	1/8"



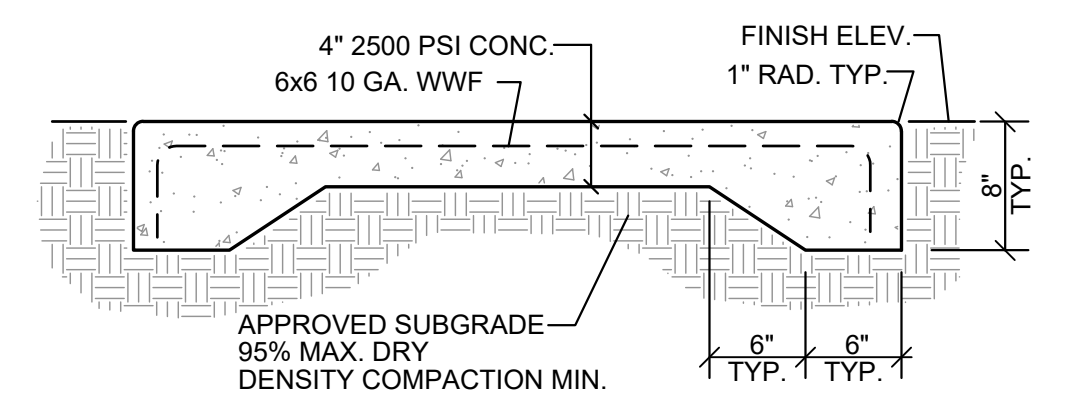
**NEW CONCRETE ADJOINING EXISTING CONCRETE**

JOINT SCHEDULE

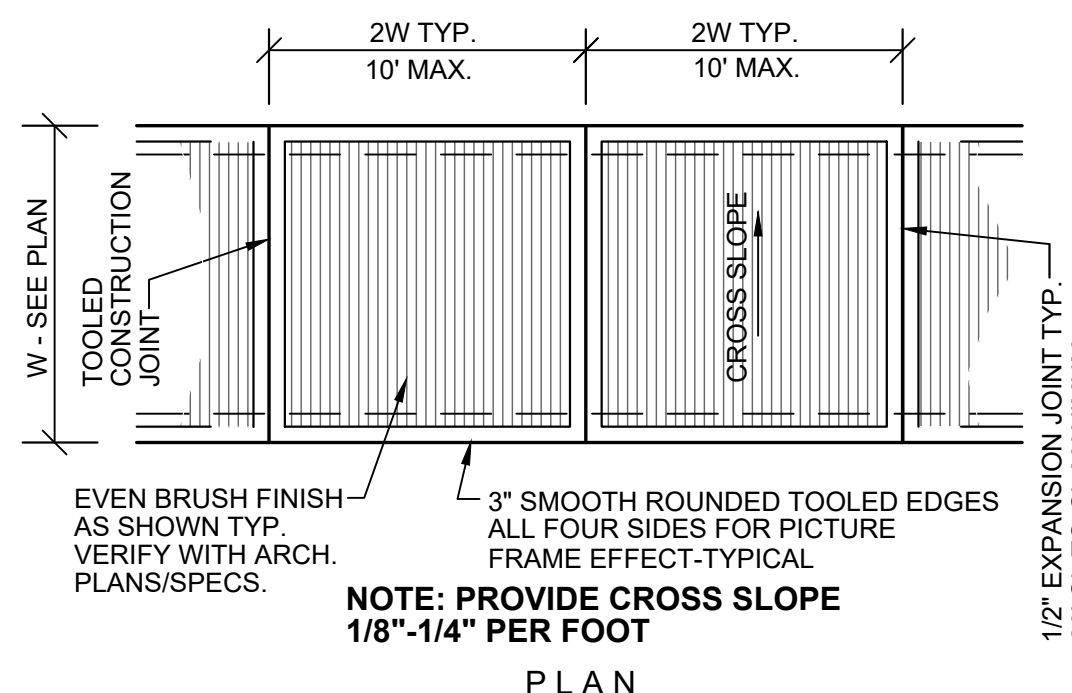
TYPE	W	D	R
SAWN CONTROL JOINT	1/4"	1/4"-3/8"	3/8"-1/2"
FORMED CONSTRUCTION JOINT ADJOINING EXISTING CONCRETE	1/4"	1/4"-3/8"	3/8"-1/2"
NEW CONCRETE ADJOINING EXISTING CONCRETE	1/4"	1/4"-3/8"	3/8"-1/2"

NOTE:  
1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO CURRENT GDOT STANDARDS AND SPECIFICATIONS.  
2. SUBMIT JOINT LAYOUT FOR APPROVAL PRIOR TO CONSTRUCTION.

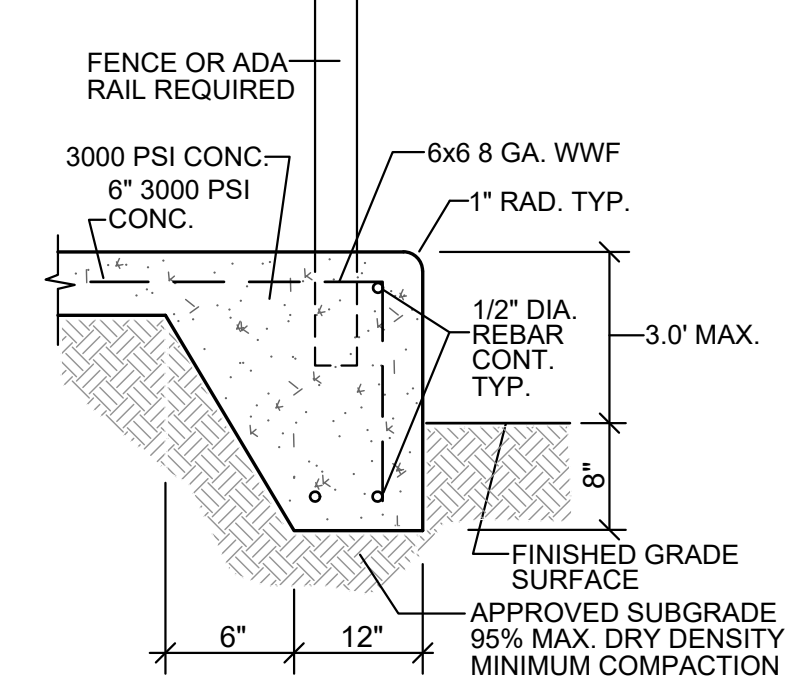
**CONCRETE JOINT DETAILS**



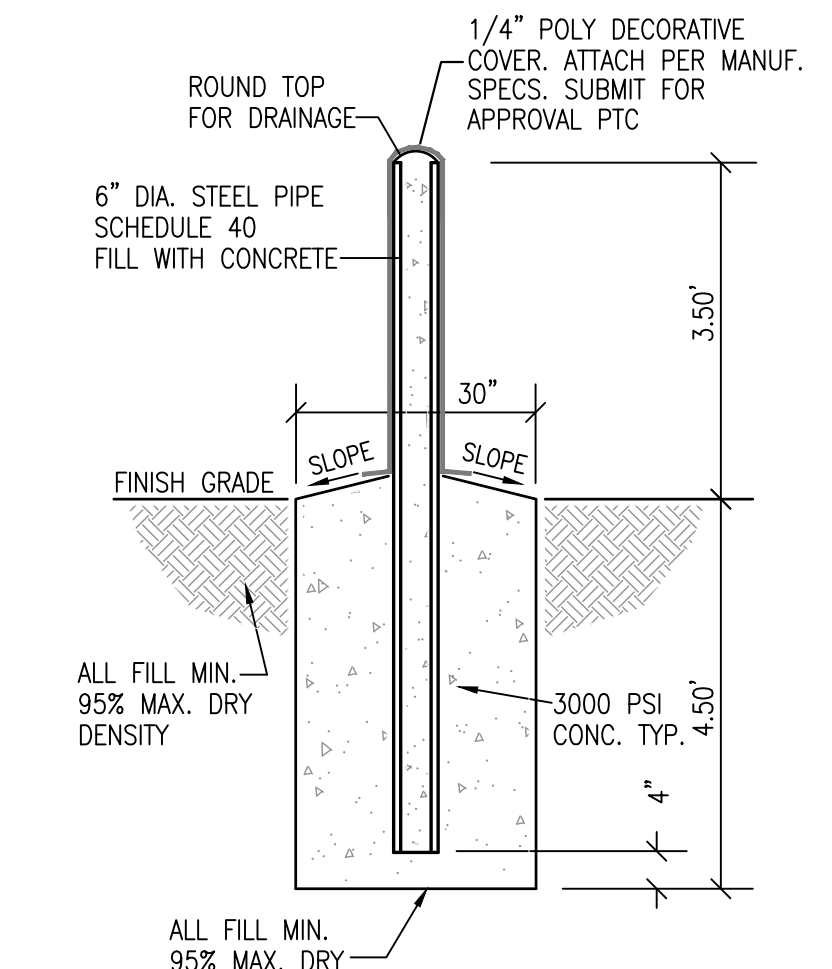
**TYPICAL SECTION**



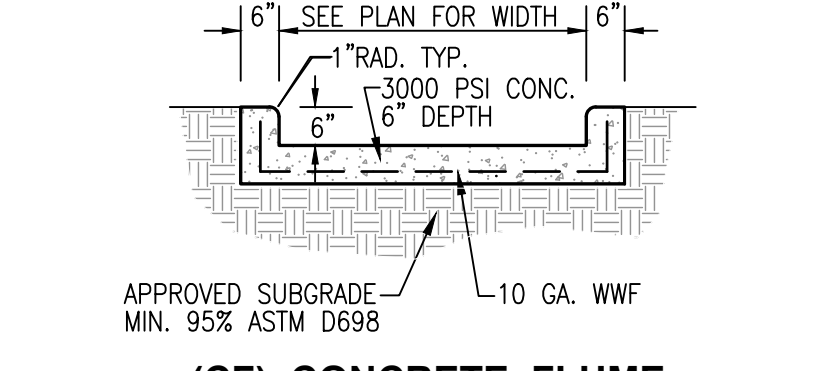
**(SW) SIDEWALK DETAILS**



**(SD) SIDEWALK DROP**



**(BO) PIPE BOLLARD DETAILS**



**(CF) CONCRETE FLUME**

PROJECT NUMBER  
**23-021**

DATE  
**12/01/23**

REVISIONS  
NO. DATE

---

FACILITY CODE

---

**KRH ARCHITECTS INCORPORATED**

855 ABUTMENT ROAD  
SUITE FOUR  
DALTON, GA 30721  
TEL. 706.529.5895

**ENGINEERING CIVIL ENGINEERING SITE DEVELOPMENT**

2900 DELA ROAD STE 700 #218 • MARIETTA, GA 30067 • PH: 770-433-8190

301 JONES STREET DALTON, GA 30720 WHITFIELD COUNTY, GA

ISSUE DATE: 02-15-24  
JOB No. 22280 | SCALE: 1" = 20'

A NEW BUILDING FOR:  
**DALTON POLICE DEPARTMENT**  
**WHITFIELD COUNTY**  
**DALTON, GA 30720**

**REGISTERED PROFESSIONAL ENGINEER**  
PRESTON W. HOBBS  
No. 22550

GSWCC LEVEL II - 0000008688

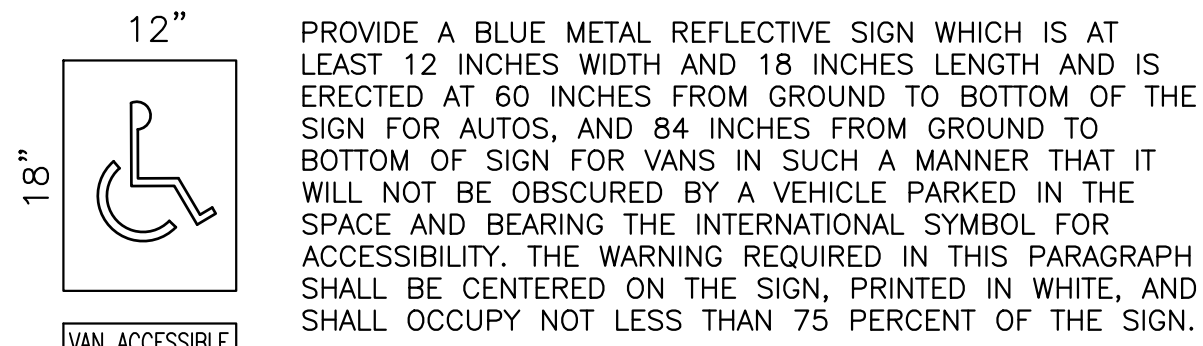
SHEET INDEX

CONSTRUCTION DETAILS

SHEET INDEX

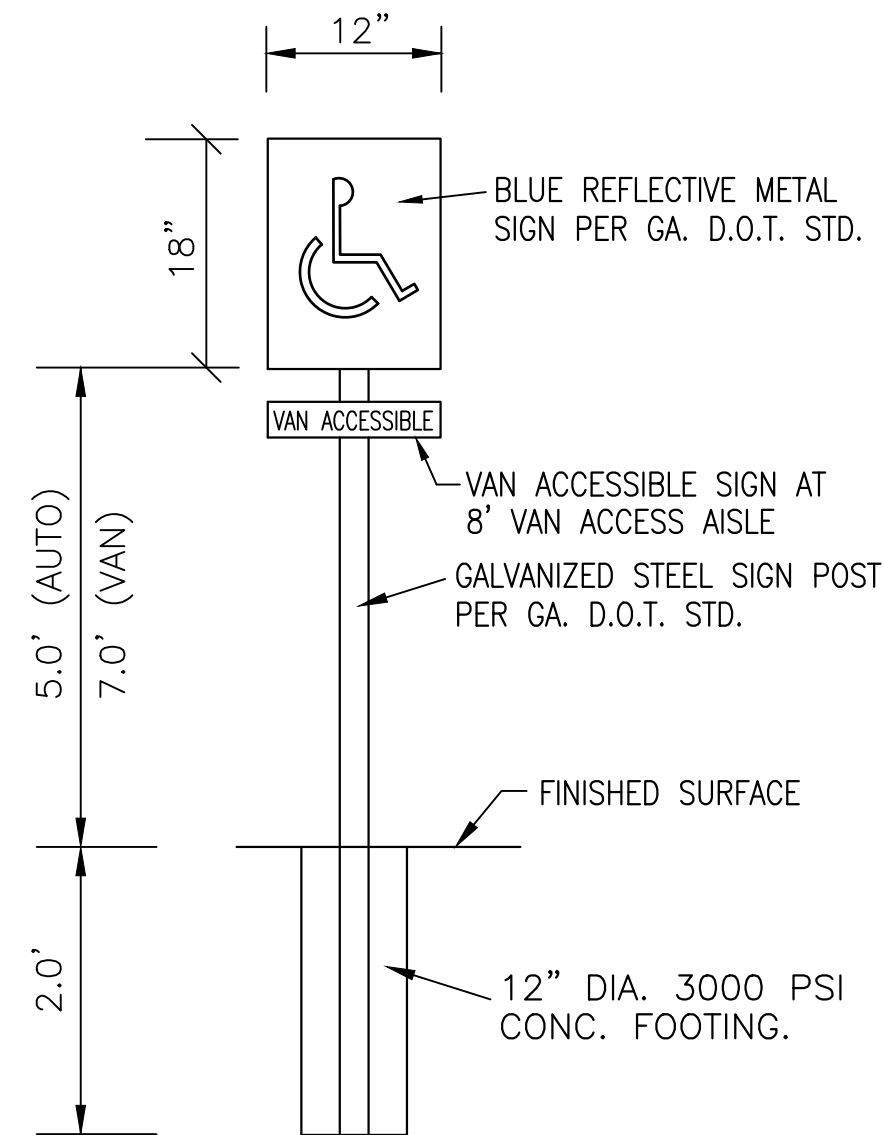
**C7**

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**HANDICAP SIGN DETAILS**

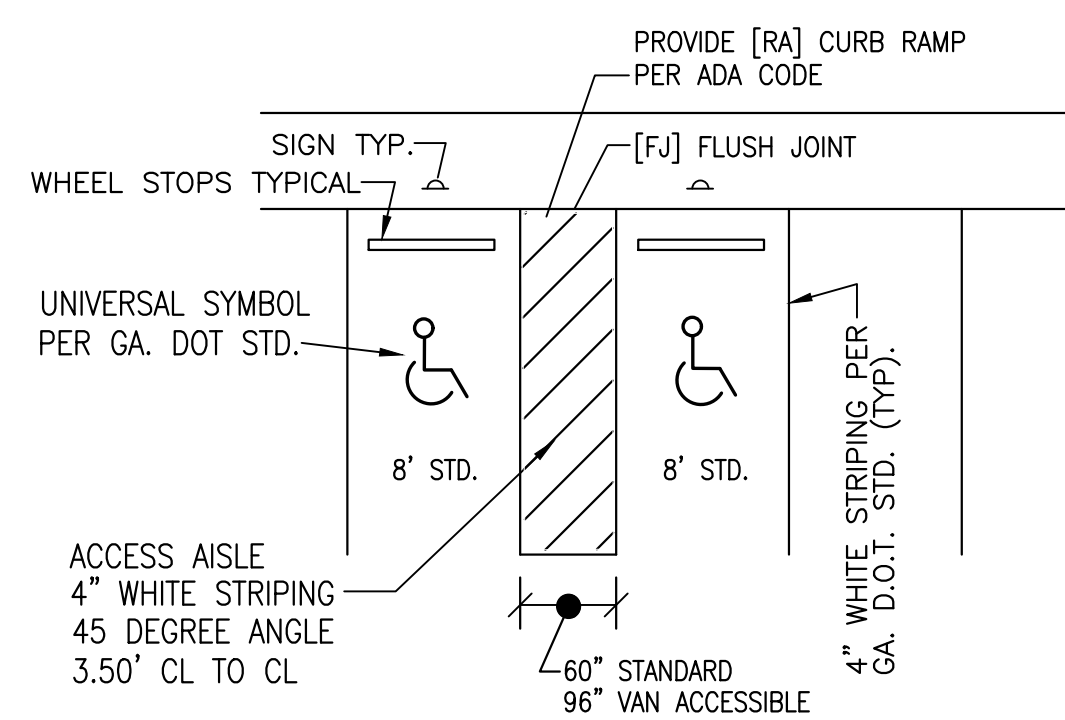
N.T.S.



**GENERAL NOTES:**

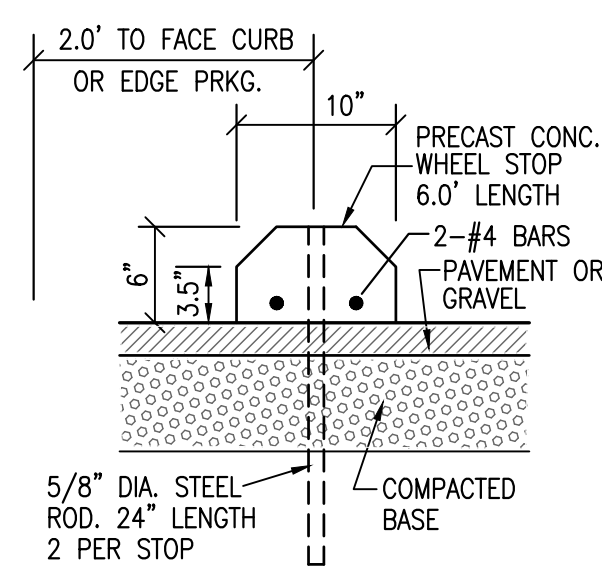
- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE GEORGIA D.O.T. STANDARDS AND SPECIFICATIONS LATEST EDITION OR APPROVED EQUAL. APPROVED EQUAL SHALL BE AS DEFINED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- THE COLOR FOR THE HANDICAP SIGN(S) SHALL BE A REFLECTIVE BLUE COLOR WITH WHITE LETTERING OR SYMBOL.
- CONSTRUCT ALL SIGNS A MINIMUM OF TWO FEET (2.0') BEHIND THE BACK OF CURBS OR EDGE OF PARKING SPACES. DO NOT OBSTRUCT ACCESSIBLE ROUTE OR SIDEWALK WITH SIGNS.

**SIGN DETAILS**



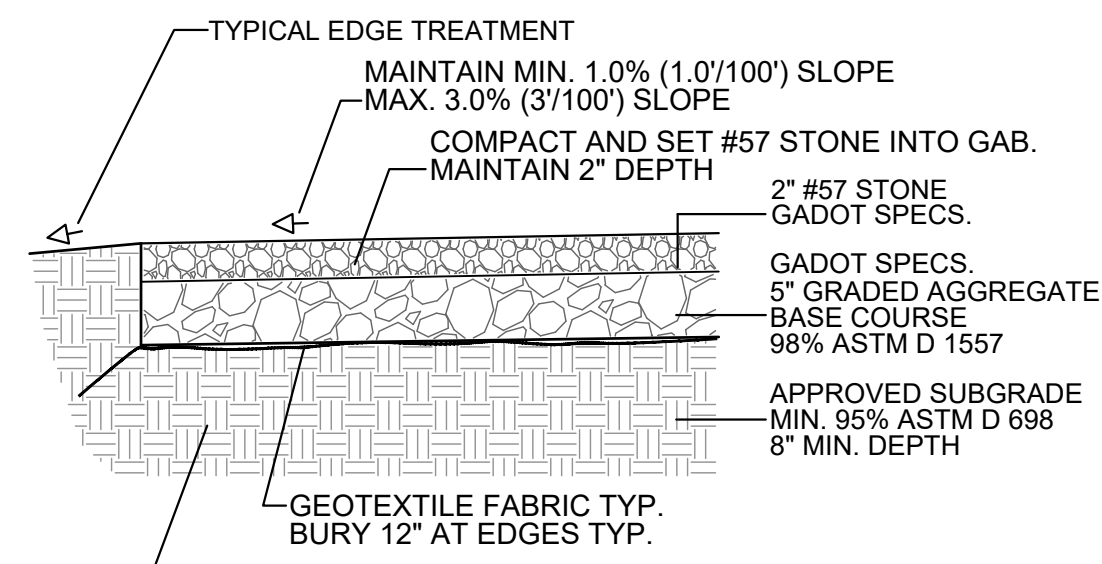
**STRIPING DETAILS**

N.T.S.

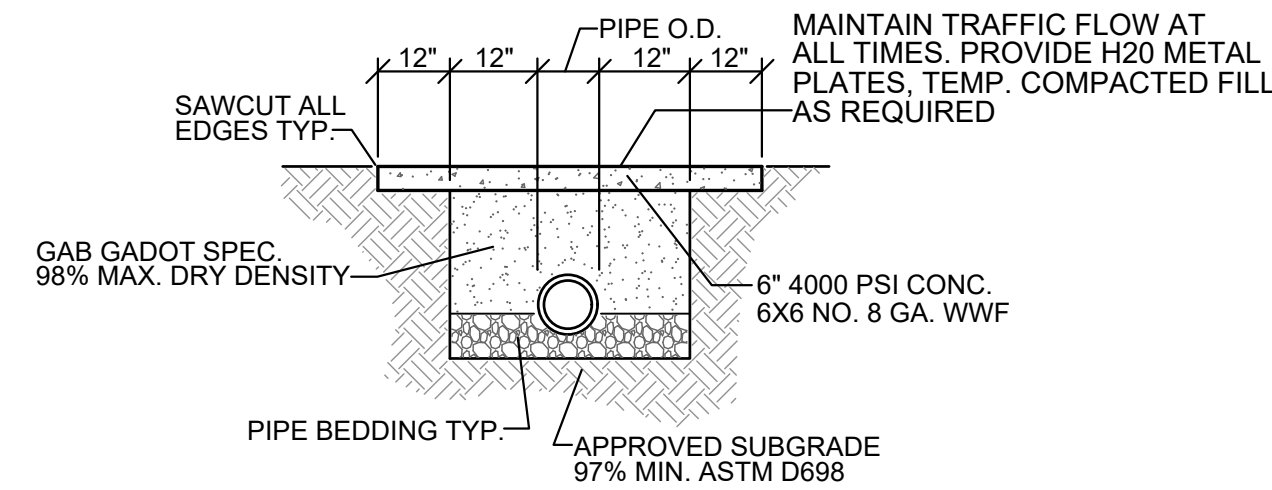


**WHEEL STOPS**

**(ADA) HANDICAP PARKING DETAILS**

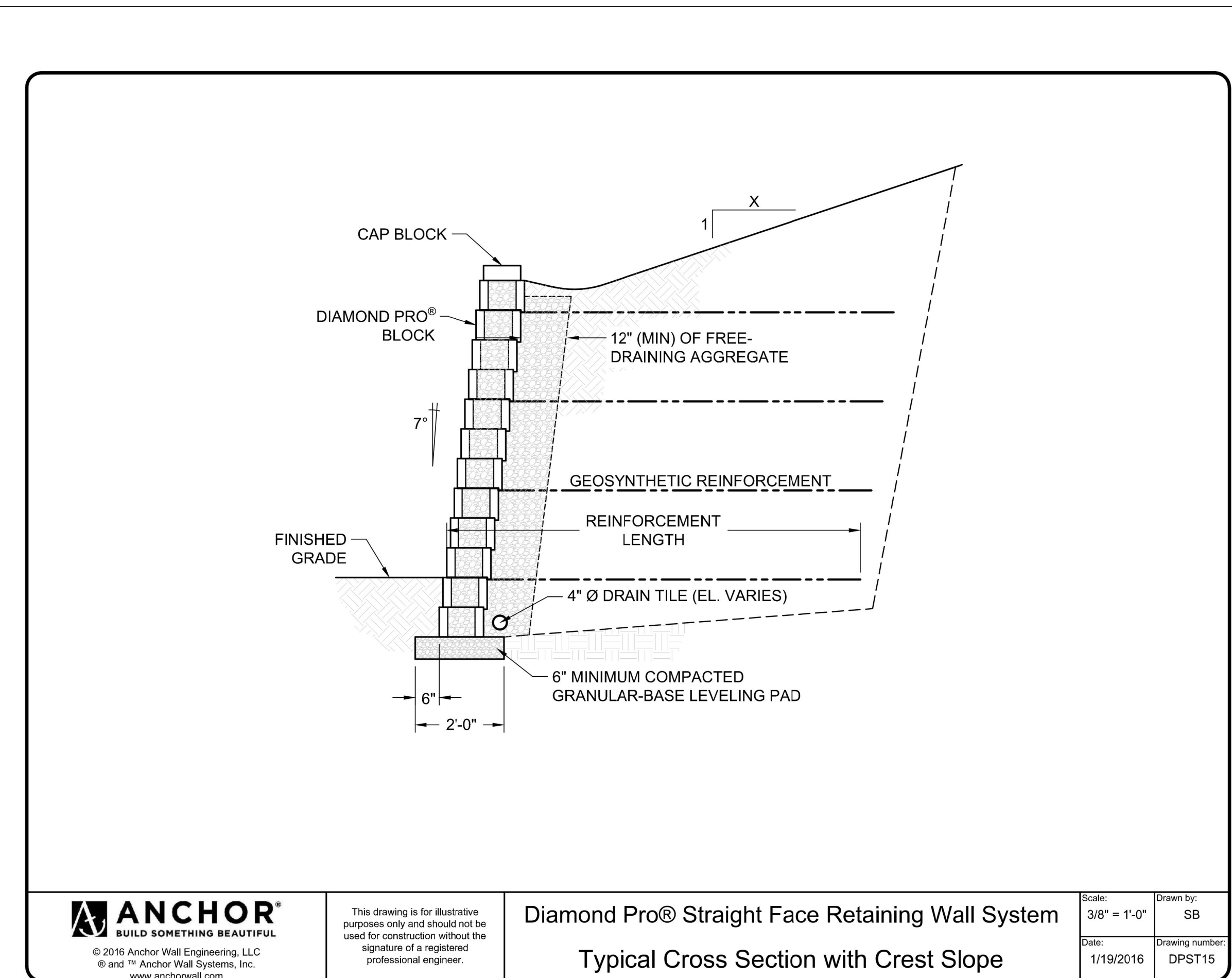


**(GR1) GRAVEL PAVEMENT**



NOTE: REPLACE SIDEWALKS, CURB & GUTTER TO MEET PROJECT DETAILS / SPECS.  
MAINTAIN TRAFFIC AND PROVIDE [TC] AT ALL TIMES. PROVIDE H2O METAL PLATES AS REQUIRED. DO NOT CUT ANY PAVEMENT IN RIGHT OF WAY WITHOUT APPROVAL FROM LOCAL AUTHORITY.

**(CP1) PAVEMENT CUT & PATCH**



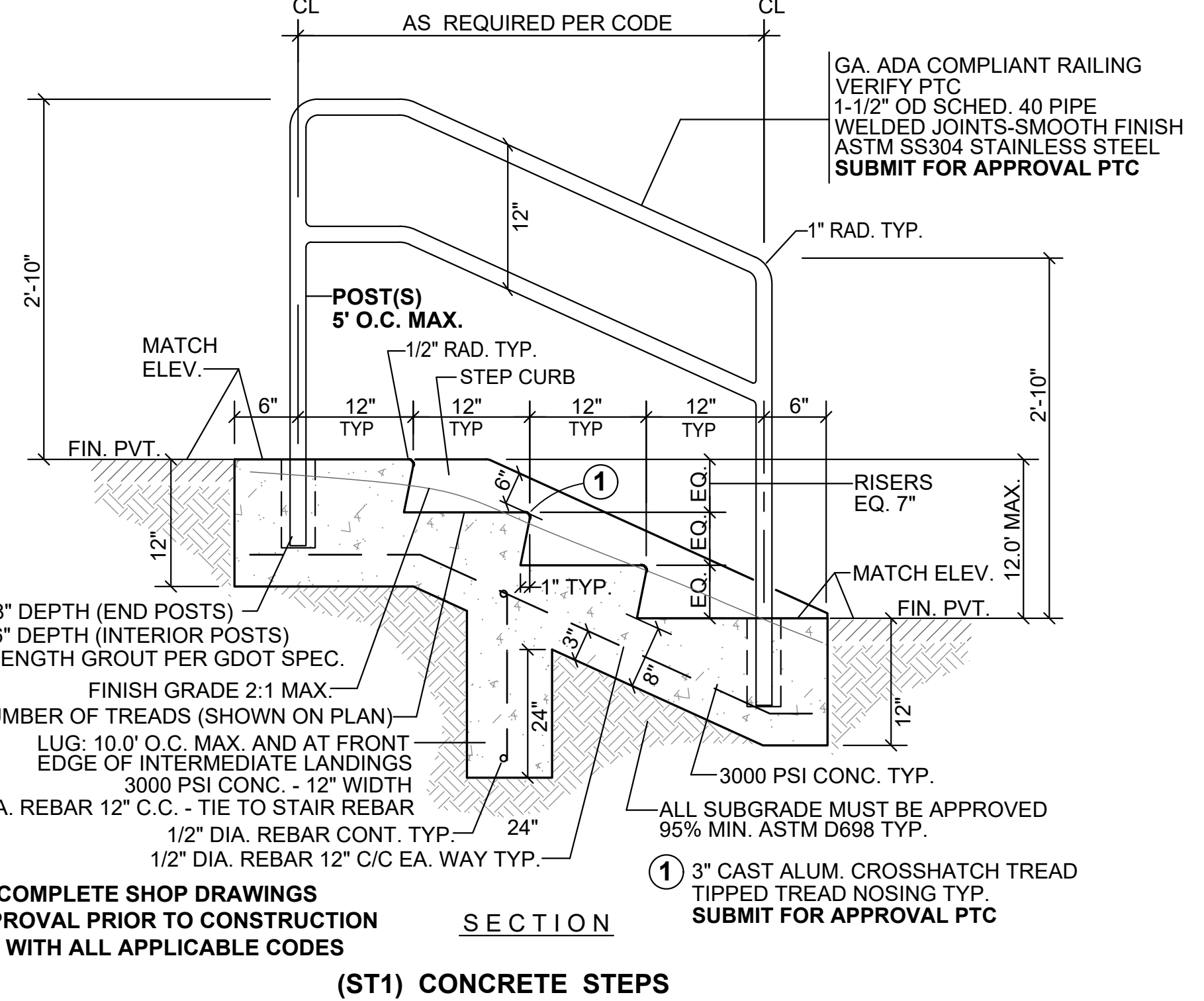
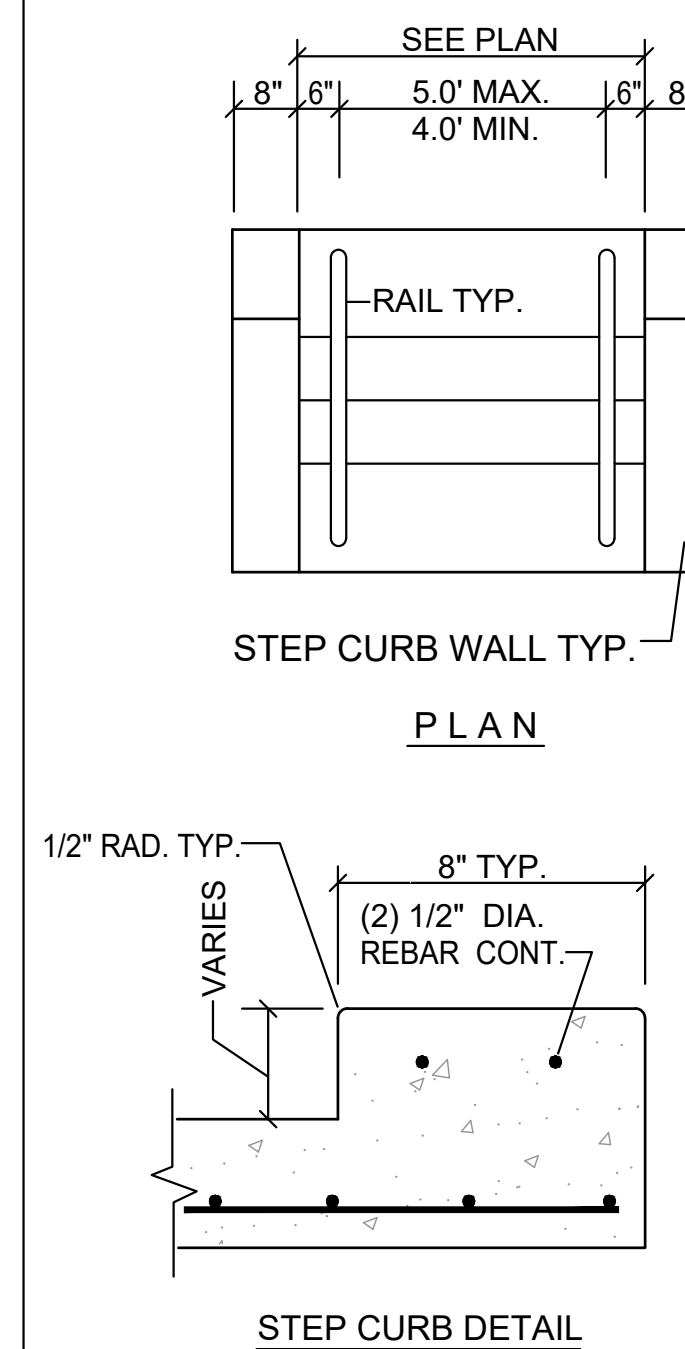
This drawing is for illustrative purposes only and should not be used for construction without the signature of a registered professional engineer.

**Diamond Pro® Straight Face Retaining Wall System**  
Typical Cross Section with Crest Slope

Scale:	3/8" = 1'-0"	Drawn by:	SB
Date:	1/19/2016	Drawing number:	DPST15

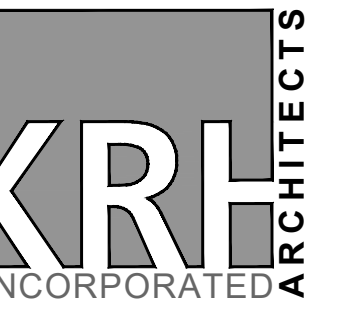
PROVIDE COMPLETE SUBMITTAL FOR APPROVAL PRIOR TO PURCHASE. SUBMITTAL MUST INCLUDE SOLID CAPS, GEOGRID REINFORCEMENT, DRAIN PIPE, DRAINING AGGREGATE, AND TYPICAL SECTIONS REFLECTING ACTUAL SITE CONDITIONS. CONTRACTOR SHALL CONFIRM WITH MANUFACTURER THAT PRODUCT SELECTED AND CONSTRUCTION DETAILS AS SUBMITTED WILL PROVIDE ADEQUATE SUPPORT INCLUDING SAFETY FACTOR FOR PROPOSED INSTALLATION.

**(MSE) RETAINING WALL**



NOTE: SUBMIT COMPLETE SHOP DRAWINGS FOR APPROVAL PRIOR TO CONSTRUCTION. COMPLY WITH ALL APPLICABLE CODES

**(ST1) CONCRETE STEPS**



855 ABUTMENT ROAD  
SUITE FOUR  
DALTON, GA 30721  
TEL. 706.529.5895

**POWER ENGINEERING**  
CIVIL ENGINEERING  
SITE DEVELOPMENT  
2900 DELAWARE AVE STE 700 #318 • MARIETTA, GA 30067 • PH: 770-433-6190  
301 JONES STREET DALTON, GA 30720 WHITFIELD COUNTY, GA  
ISSUE DATE: 02-15-24  
JOB NO. 22280 SCALE: 1" = 20'

A NEW BUILDING FOR:  
DALTON POLICE DEPARTMENT  
WHITFIELD COUNTY  
DALTON, GA 30720

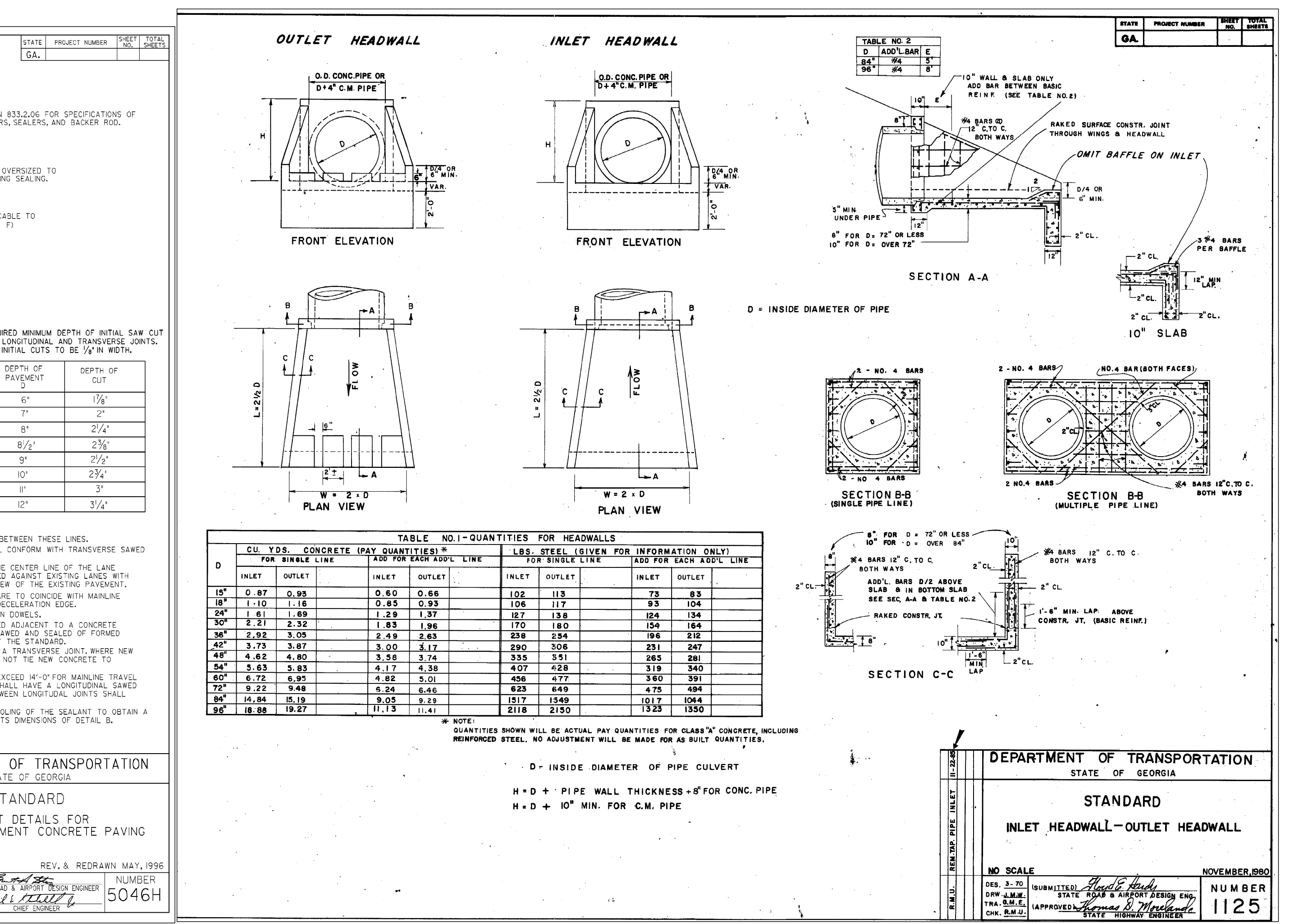
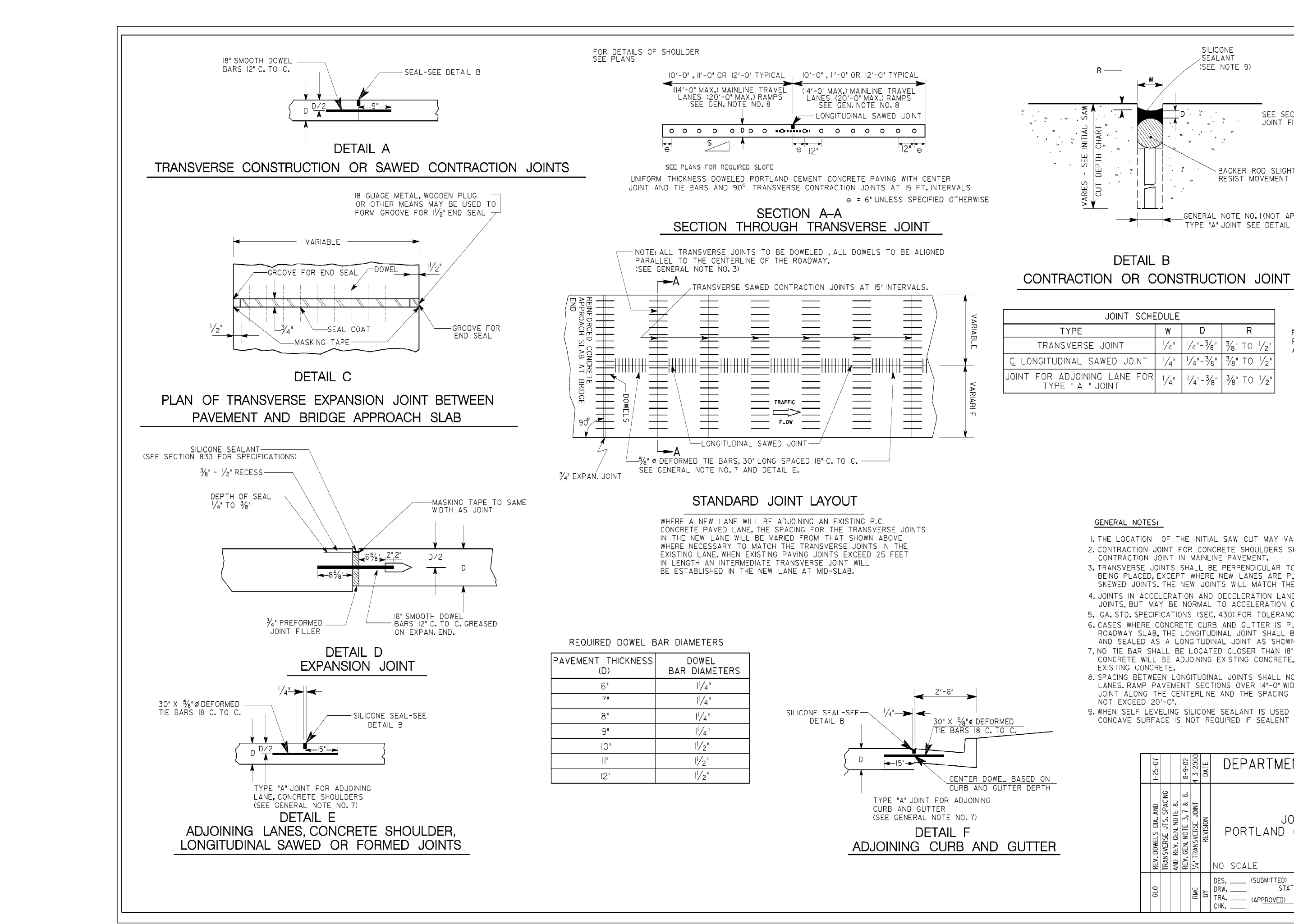
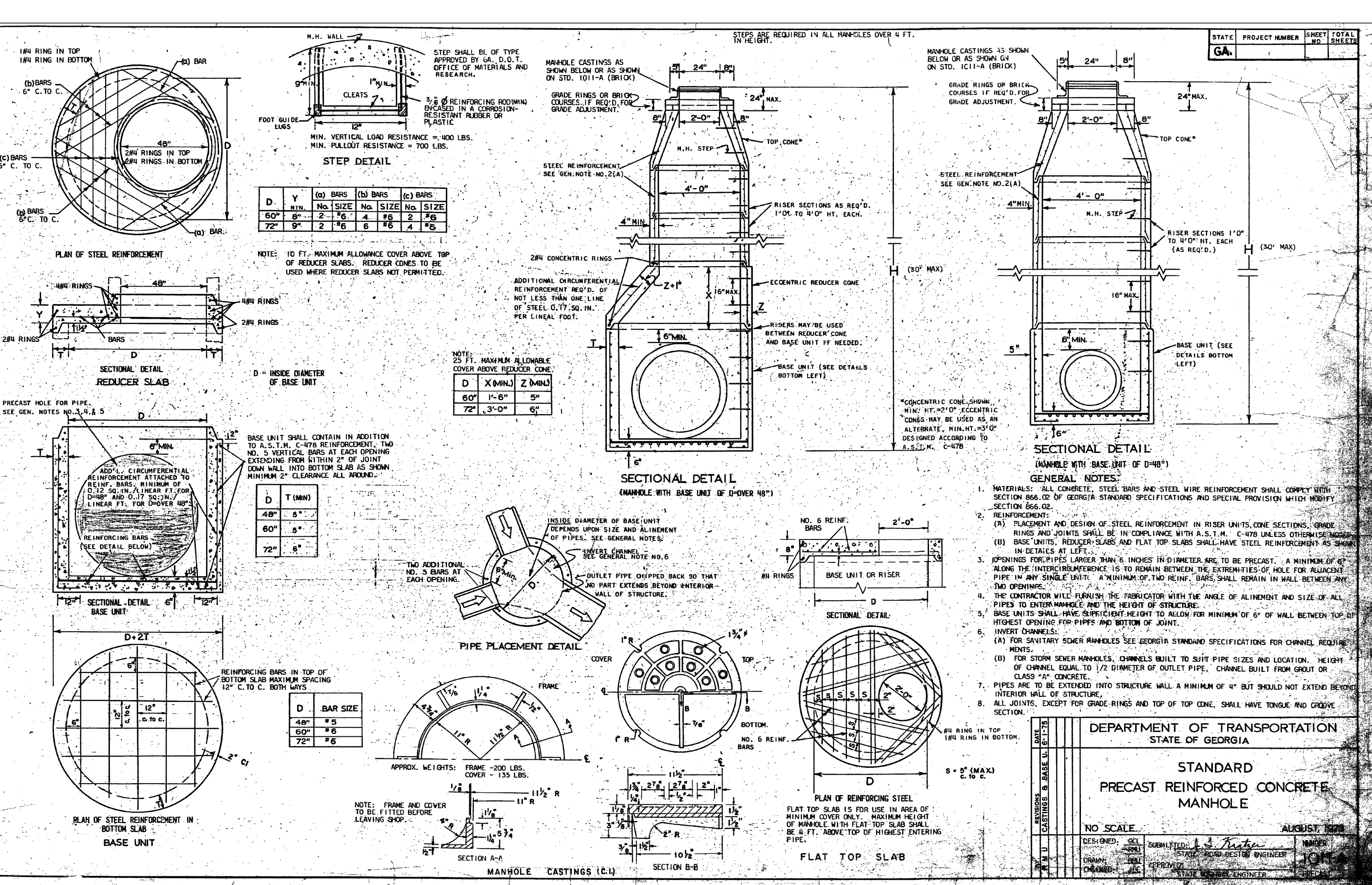
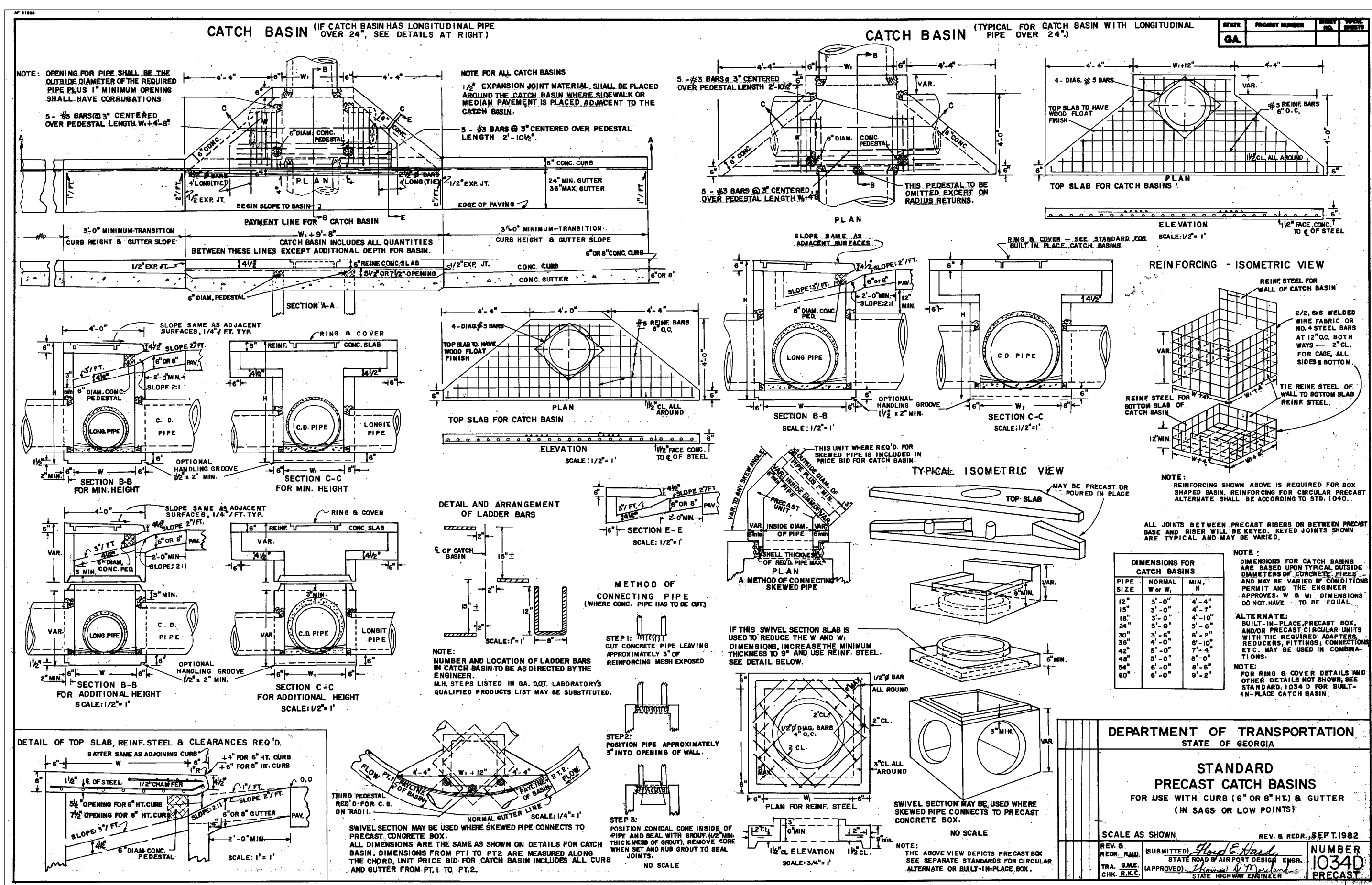


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**TABLE NO. 1 - QUANTITIES FOR HEADWALLS**

D	CONCRETE (CY)		LBS. STEEL (GIVEN FOR INFORMATION ONLY)	
	INLET	OUTLET	INLET	OUTLET
15"	0.87	0.98	0.80	0.88
18"	1.10	1.16	0.85	0.93
24"	1.81	1.89	1.29	1.37
30"	2.51	2.52	1.83	1.96
36"	3.22	3.05	2.49	2.83
42"	3.73	3.87	3.00	3.17
48"	4.62	4.80	3.58	3.74
54"	5.53	5.83	4.17	4.38
60"	6.72	6.95	4.82	5.01
72"	9.22	9.48	6.24	6.46
84"	12.84	13.19	8.95	9.29
96"	18.98	19.27	12.15	12.41

NOTE: QUANTITIES SHOWN WILL BE ACTUAL PAY QUANTITIES FOR CLASS "A" CONCRETE INCLUDING REINFORCING STEEL. NO ADJUSTMENT WILL BE MADE FOR AS BUILT QUANTITIES.

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

**STANDARD JOINT DETAILS FOR PORTLAND CEMENT CONCRETE PAVING**

NO SCALE

REV. & REDRAWN MAY, 1996

NUMBER 5046H

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

**STANDARD INLET HEADWALL - OUTLET HEADWALL**

NO SCALE

NOVEMBER, 1990

NUMBER 1125



REVISIONS	
NO.	DATE

FACILITY CODE



855 ABUTMENT ROAD  
SUITE FOUR  
DALTON, GA 30721  
TEL. 706.529.5895

**PWR ENGINEERING**  
CIVIL ENGINEERING  
SITE DEVELOPMENT

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301 JONES STREET DALTON, GA 30720 WHITFIELD COUNTY, GA

ISSUE DATE: 02-15-24  
JOB No. 22280 | SCALE: 1" = 20'

A NEW BUILDING FOR:  
**DALTON POLICE DEPARTMENT**  
WHITFIELD COUNTY  
DALTON, GA 30720



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SHEET INDEX

CONSTRUCTION  
DETAILS

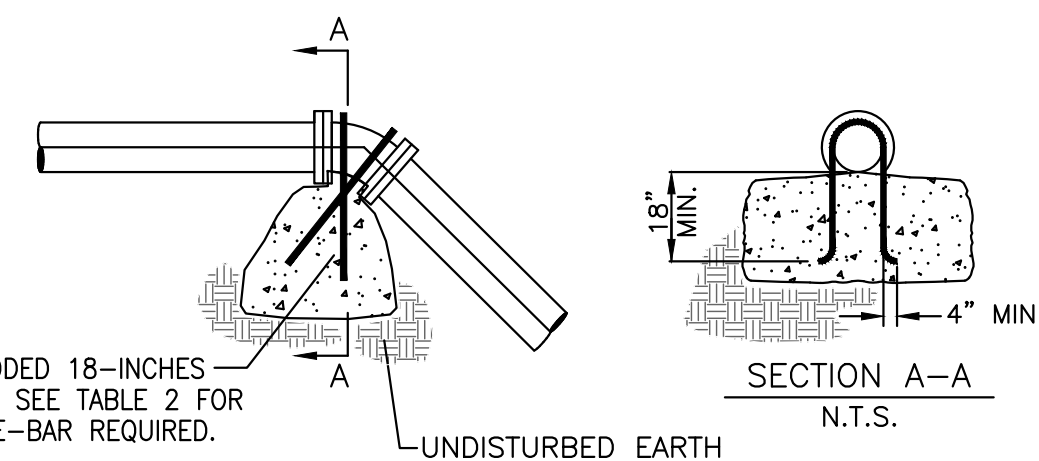
SHEET INDEX

**C7.4**

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FITTING SIZE	MINIMUM CUBIC YARDS CONCRETE ANCHOR BLOCK			
	90° BEND	45° BEND	22-1/2° BEND	11-1/4° BEND
4	2.0	1.3	1.0	1.0
6	3.5	2.2	1.3	1.0
8	5.6	3.2	1.9	1.3
10	8.0	5.1	2.6	1.6
12	10.8	5.9	3.0	1.5
14	14.4	7.8	4.1	2.0
16	18.8	10.1	5.1	2.6
18	23.4	12.8	6.5	3.3
20	29.0	15.6	8.0	4.1
24	41.1	22.2	11.4	5.7

FITTING SIZE	MINIMUM NUMBER & SIZE STEEL RE-BAR REQUIRED			
	90° BEND	45° BEND	22-1/2° BEND	11-1/4° BEND
4	2-#5	2-#5	2-#5	2-#5
6	2-#5	2-#5	2-#5	2-#5
8	2-#5	2-#5	2-#5	2-#5
10	3-#5	2-#5	2-#5	2-#5
12	4-#5	2-#5	2-#5	2-#5
14	4-#6	3-#5	2-#5	2-#5
16	4-#7	4-#5	2-#5	2-#5
18	4-#7	3-#6	3-#5	2-#5
20	4-#8	4-#6	3-#5	2-#5
24	6-#8	4-#7	2-#7	2-#5

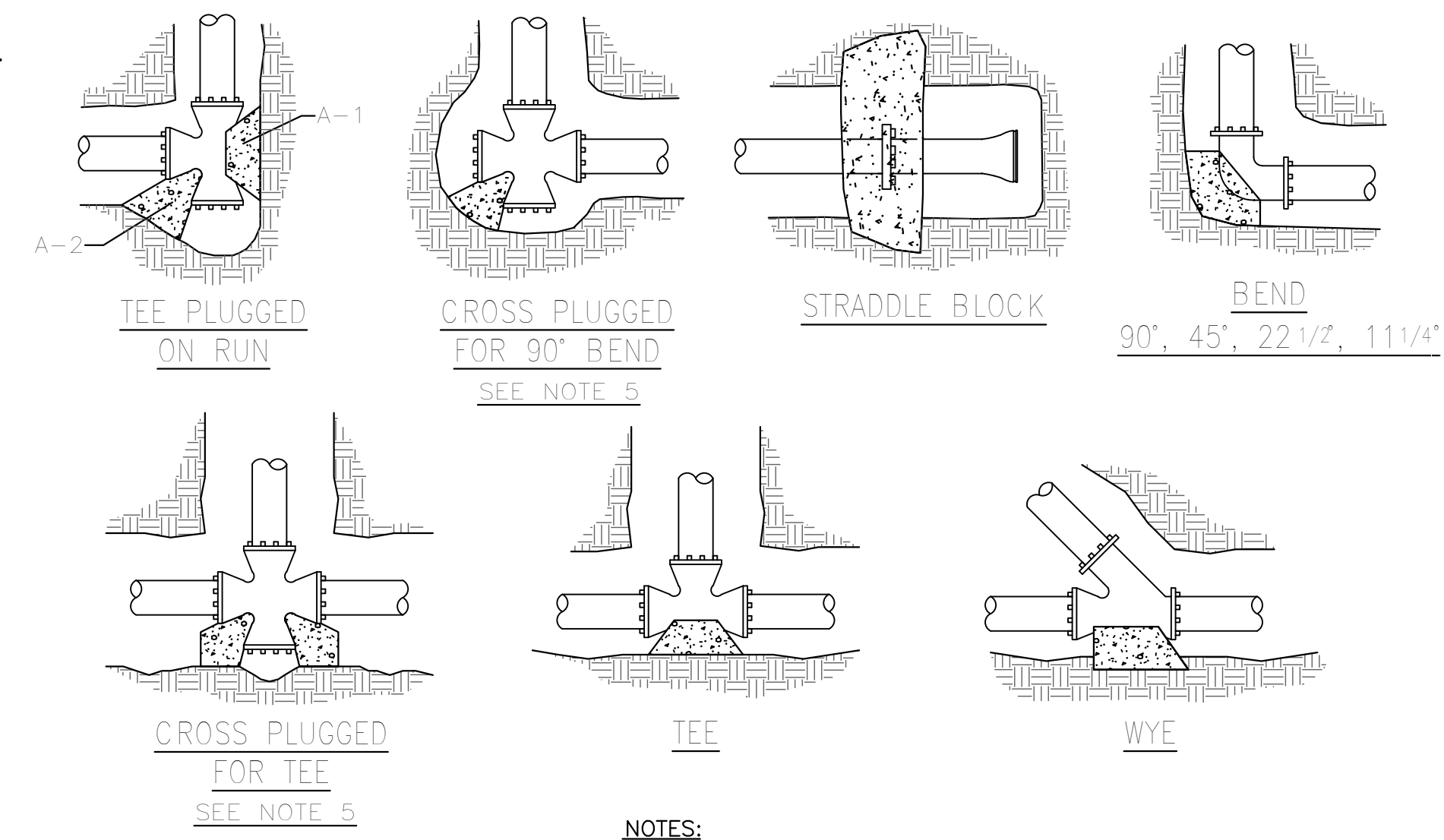


EPOXY COATED RE-BARS  
OVER FITTING AND EMBEDDED 18-INCHES  
IN CONCRETE AS SHOWN. SEE TABLE 2 FOR  
NUMBER AND SIZE OF RE-BAR REQUIRED.

- NOTES:**
- THE VOLUMES SHOWN IN TABLE 1 ARE BASED ON TEST PRESSURES OF 200 PSI AND THE WEIGHT OF CONCRETE = 4050 LBS/CU.YD. TO COMPUTE VOLUME FOR DIFFERENT TEST PRESSURES, USE THE FOLLOWING EQUATION: VOLUME = (TEST PRESSURE/150) X (TABLE VALUE).
  - THE NUMBER AND SIZE OF RE-BAR REQUIRED SHOWN IN TABLE 2 ARE BASED UPON GRADE 40 RE-BAR WITH A TENSILE STRENGTH OF 20,000 PSI AND A FS=1.5.
  - ALTERNATE JOINT RESTRAINT METHODS SUCH AS MEGA-LUG, ETC., MAY BE ACCEPTED BY WRITTEN APPROVAL OF THE ENGINEER.
  - CONCRETE BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH.
  - ALL CONCRETE TO BE 3000 PSI MINIMUM.
  - INSTALL ISOLATION MATERIAL BETWEEN PIPE AND/OR FITTINGS BEFORE POURING CONCRETE BLOCKING.
  - FOR SOFT OR UNSUITABLE SOILS, CONSULT ENGINEER FOR THRUST BLOCK DESIGN.
  - KEEP CONCRETE CLEAR OF JOINT AND JOINT ACCESSORIES.

FITTING SIZE INCHES	TEE, WYE, PLUGGED CROSS	STRADDLE BLOCK	90° BEND PLUGGED CROSS	TEE PLUGGED ON RUN		45° BEND	22-1/2° BEND	11-1/4° BEND
				A-1	A-2			
4	2.0	3.0	3.5	3.5	2.8	2.5	2.0	1.5
6	4.0	6.0	6.0	7.0	5.0	3.0	2.0	1.5
8	6.0	10.0	10.2	12.0	8.5	5.0	3.0	2.0
10	8.9	15.3	15.5	17.7	12.6	6.9	3.6	1.8
12	12.8	22.1	21.8	25.5	18.0	9.9	5.1	3.1
14	17.3	32.0	29.3	34.5	24.5	13.4	6.9	3.5
16	22.5	39.2	37.5	45.0	32.5	20.6	10.5	5.3
18	28.5	51.0	47.6	57.0	40.5	25.8	13.2	6.6
20	35.3	61.2	58.5	70.5	50.0	32.2	16.2	7.1
24	51.0	88.2	73.5	102.0	72.0	39.3	20.4	10.2

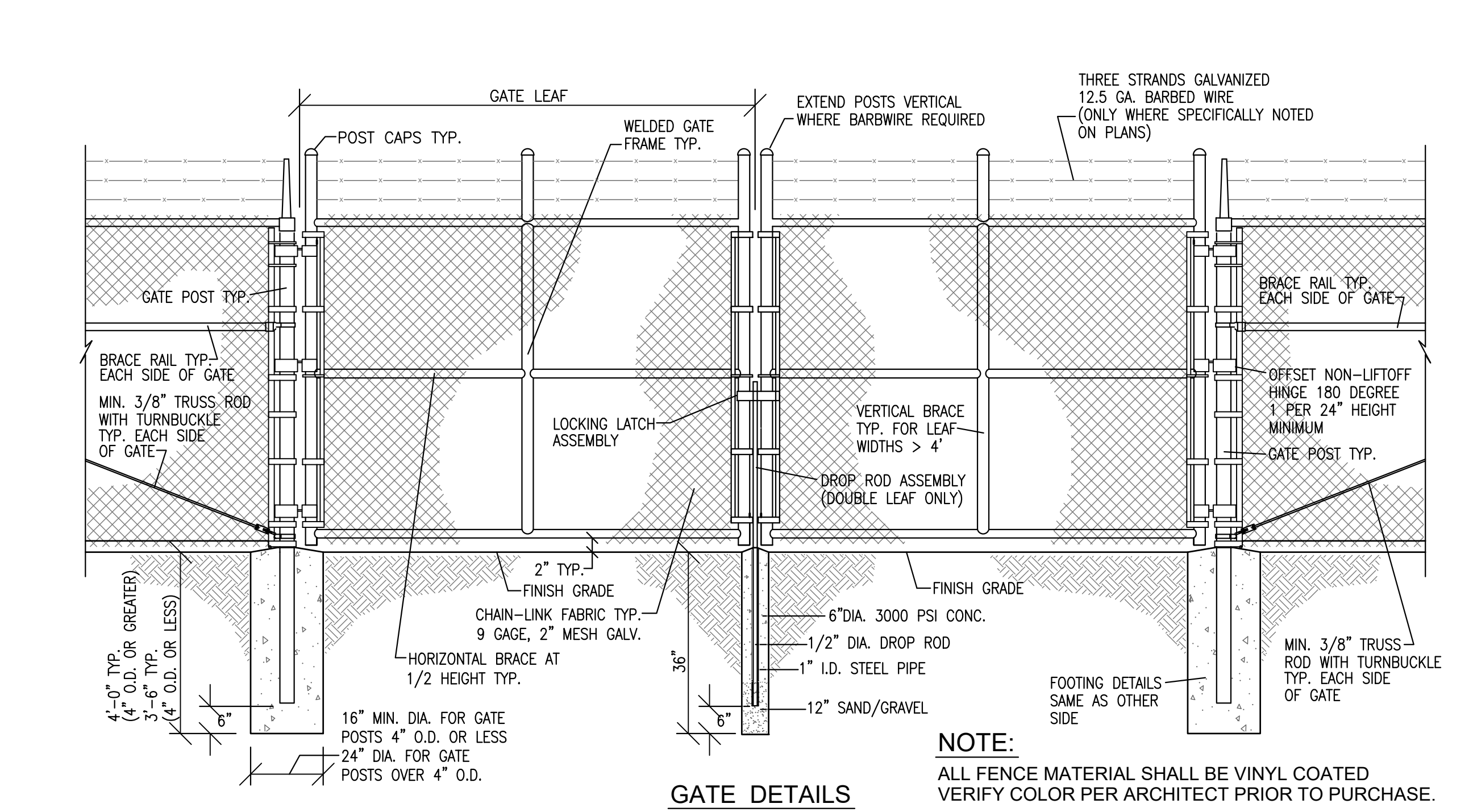
- NOTES:**
- ABOVE BEARING AREAS BASED ON TEST PRESSURE OF 200 PSI AND AN ALLOWABLE SOIL BEARING STRESS OF 2000 POUNDS PER SQUARE FOOT. TO COMPUTE BEARING AREAS FOR DIFFERENT TEST PRESSURES AND SOIL BEARING STRESSES, USE THE FOLLOWING EQUATION:  
BEARING AREA = ( TEST PRESSURE / 150 ) x ( 2000 / SOIL BEARING STRESS ) x ( TABLE VALUE )
  - ABOVE VOLUMES BASED ON TEST PRESSURE OF 150 PSI AND THE WEIGHT OF CONCRETE=4050 POUNDS PER CUBIC YARD. TO COMPUTE FOR DIFFERENT TEST PRESSURES, USE THE FOLLOWING EQUATION:  
VOLUME = ( TEST PRESSURE / 150 ) x ( TABLE VALUE )



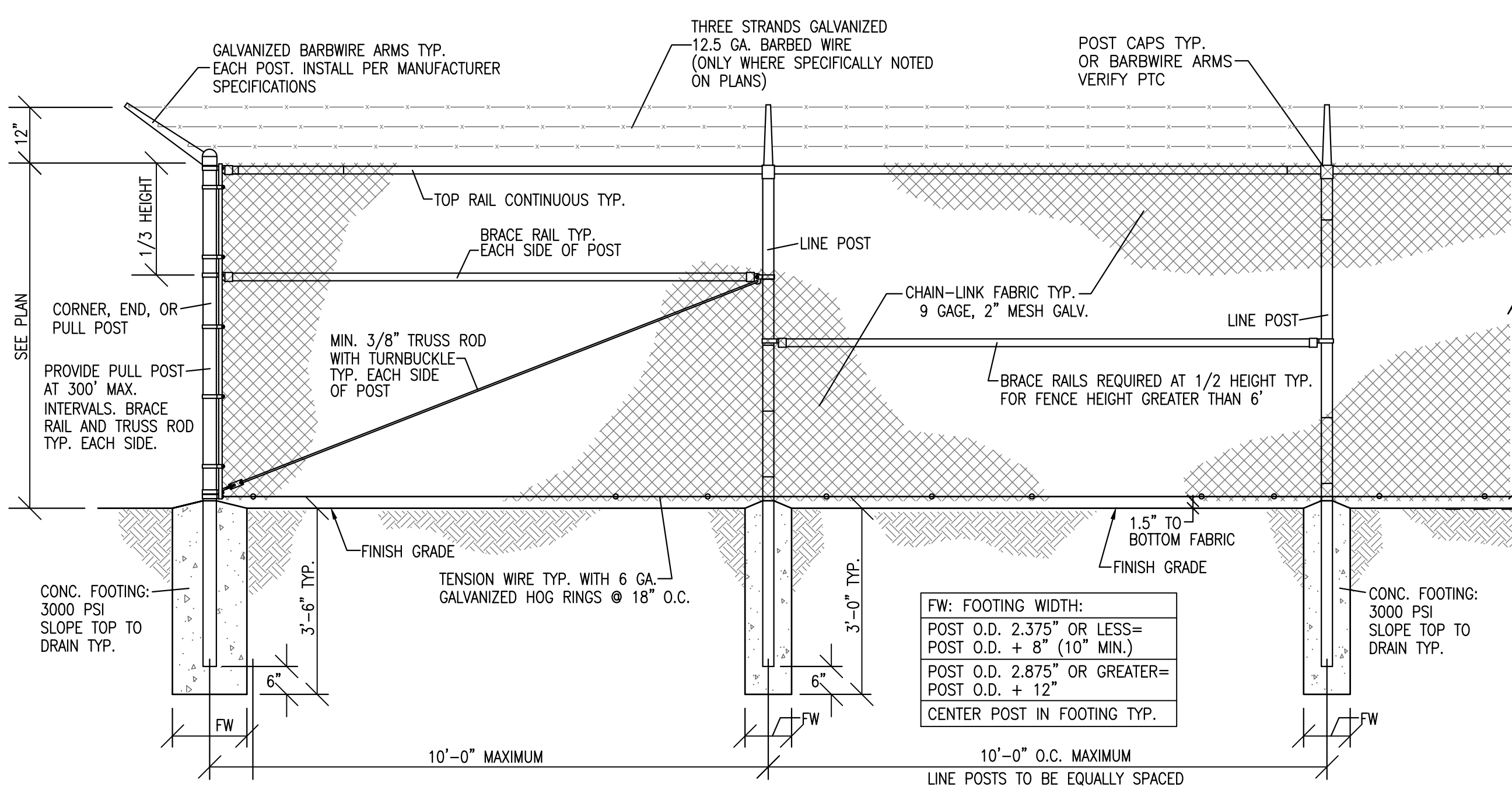
- NOTES:**
- CONCRETE BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH.
  - ALL CONCRETE TO BE 3000 PSI MINIMUM.
  - INSTALL ISOLATION MATERIAL BETWEEN PIPE AND/OR FITTINGS BEFORE POURING CONCRETE BLOCKING.
  - CONCRETE SHALL BE KEPT CLEAR OF ALL JOINTS AND ACCESSORIES.
  - MAY NOT WORK OUT FOR ALL FITTING SIZES - CONFIRM USE OF THIS BLOCKING CONFIGURATION WITH ENGINEER.
  - FOR SOFT OR UNSUITABLE SOILS, CONSULT ENGINEER FOR THRUST BLOCK DESIGN

**THRUST BLOCK DETAIL**

**VERTICAL THRUST BLOCK DETAIL**



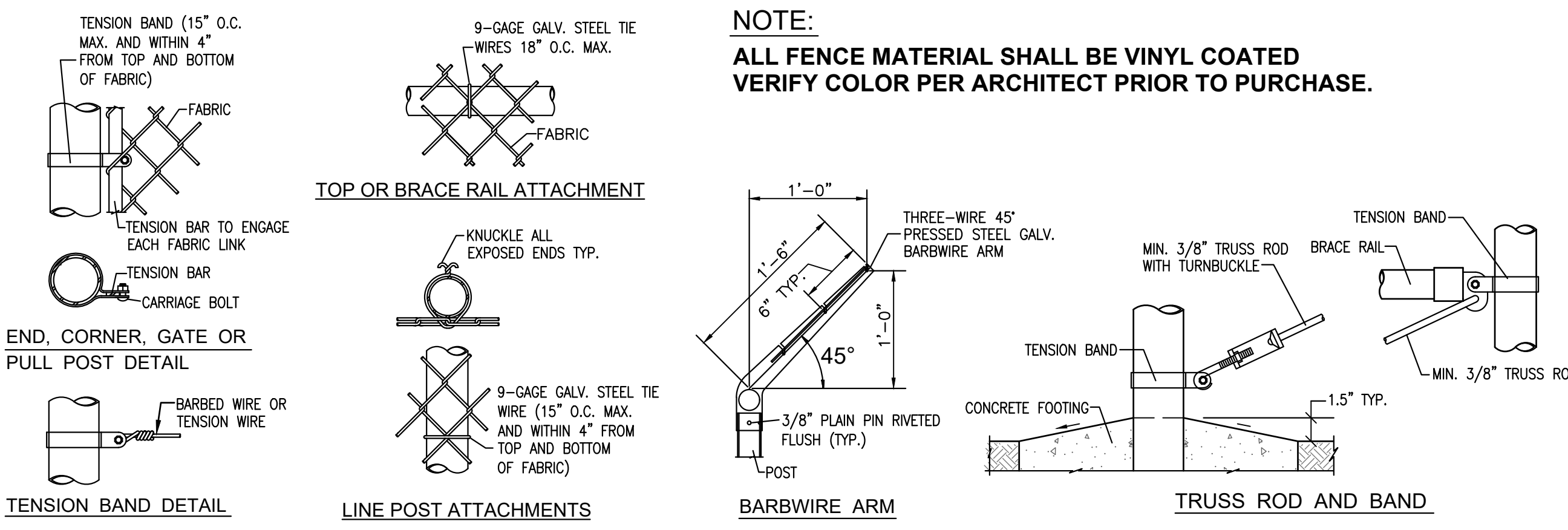
**NOTE:**  
ALL FENCE MATERIAL SHALL BE VINYL COATED  
VERIFY COLOR PER ARCHITECT PRIOR TO PURCHASE.



TYPE	FENCE HEIGHT 6' OR LESS	FENCE HEIGHT 6' TO 8'	FENCE HEIGHT OVER 8'
CORNER, END, TERMINAL & PULL POST	2.875" O.D.	2.875" O.D.	4.00" O.D.
LINE POST	1.90" O.D.	2.375" O.D.	2.875" O.D.
TOP, BOTTOM & BRACE RAIL	1.66" O.D.	1.66" O.D.	1.66" O.D.

GATE LEAF WIDTH	POST
6' OR LESS	2.875" O.D.
6' TO 12'	4.00" O.D.
12' TO 18'	6.625" O.D.

**NOTE:**  
ALL FENCE MATERIAL SHALL BE VINYL COATED  
VERIFY COLOR PER ARCHITECT PRIOR TO PURCHASE.



**(CL) CHAIN-LINK FENCE DETAIL**

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DOOR EGRESS CAPACITIES @ .2/PERSON:		
NOMINAL OPENING SIZE	CLEAR WIDTH OF OPENING	EGRESS CAPACITY OF OPENING
3'-0" SINGLE	33.5"	167 PERSONS
3'-6" SINGLE	39.5"	197 PERSONS

**IDENTIFICATION OF FIRE AND SMOKE RATED WALLS:**

ALL FIRE RATED WALLS AND PARTITIONS SHALL BE PERMANENTLY IDENTIFIED ABOVE THE CEILING LINE WITH THE WORDING AS FOLLOWS:

"\_ HR. RATED FIRE OR SMOKE BARRIER PROTECT ALL OPENINGS"

SUCH IDENTIFICATION SHALL CONSIST OF 2" H RED LETTERS PAINTED DIRECTLY ON BOTH SIDES OF THE WALL. USE RED ENAMEL PAINT AND STENCILS. SPACING SHALL BE 10'-0" O.C. MAXIMUM.

THE FOLLOWING WALLS SHALL BE SO IDENTIFIED: ALL 1 & 2 HR. RATED WALLS AND PARTITIONS - AS INDICATED ON THIS SHEET.

**GENERAL LIFE SAFETY PLAN NOTES:**

- KEY LOCK BOX IS REQUIRED. THE FIRE INSPECTOR WILL APPROVE THE LOCATION FOR THE BOX DURING THE 50% INSPECTION. GENERALLY, THESE BOXES ARE LOCATED SIX (6) FEET ABOVE GRADE AND TO THE RIGHT OF THE MAIN ENTRY DOOR. THE REQUIRED KNOX BOX MUST BE ORDERED THROUGH WWW.KNOXBOX.COM, USING THE LOCAL DEPARTMENT/AGENCY CODE. KNOX BOX SHALL BE OF A RECESSED TYPE, WHERE APPLICABLE. KNOX BOX TO BE PROVIDED BY GENERAL CONTRACTOR.
- PORTABLE FIRE EXTINGUISHERS WILL BE PROVIDED PER NFPA 101. AN INSPECTOR OF THE FIRE MARSHAL'S OFFICE PRIOR TO FINAL INSPECTION WILL DETERMINE THE LOCATION AND ARRANGEMENT OF THE EXTINGUISHERS. A MINIMUM OF FOUR EXTINGUISHERS WITH THE POSSIBILITY OF ONE EVERY SEVENTY-FIVE (75) MAY BE REQUIRED.
- CONTRACTOR SHALL SUBMIT FIRE ALARM AND FIRE SPRINKLER PLANS TO THE FIRE MARSHAL'S OFFICE FOR REVIEW AND PERMIT. CONTRACTOR SHALL BE IN POSSESSION OF PERMIT PRIOR TO COMMENCEMENT OF WORK. ANY DESIGN OF THESE SYSTEMS SHOWN ON THIS SET OF CONTRACT DOCUMENTS SHALL BE FOR REFERENCE ONLY.
- CONTRACTOR SHALL PROVIDE FULL DETAILS AND CUTSHEETS FOR ALL MATERIALS USED IN ALL U.L. DESIGNED ASSEMBLIES TO THE FIRE MARSHAL'S OFFICE FOR APPROVAL.
- ALL EVACUATION ROUTES ARE DESIGNED TO BE HANDICAP ACCESSIBLE.

**LEGEND**

	8" CMU BLOCK EXTEND TO 1'-0" ABOVE CEILING, UNLESS NOTED OTHERWISE.
	1 HOUR RATED
	2 HOUR RATED
	DOOR NUMBER TAG
	WINDOW OR FRAME TAG
	FIRE EXTINGUISHER AND CABINET
	FLOOR DRAIN - COORDINATE WITH PLUMBING

PROJECT NUMBER  
**23-021**

DATE  
**12/01/23**

REVISIONS  
NO. DATE  
0000 00/00/00

FACILITY CODE  
**000-0000**



855 ABUTMENT ROAD  
SUITE FOUR  
DALTON, GA 30721  
TEL. 706.529.5895

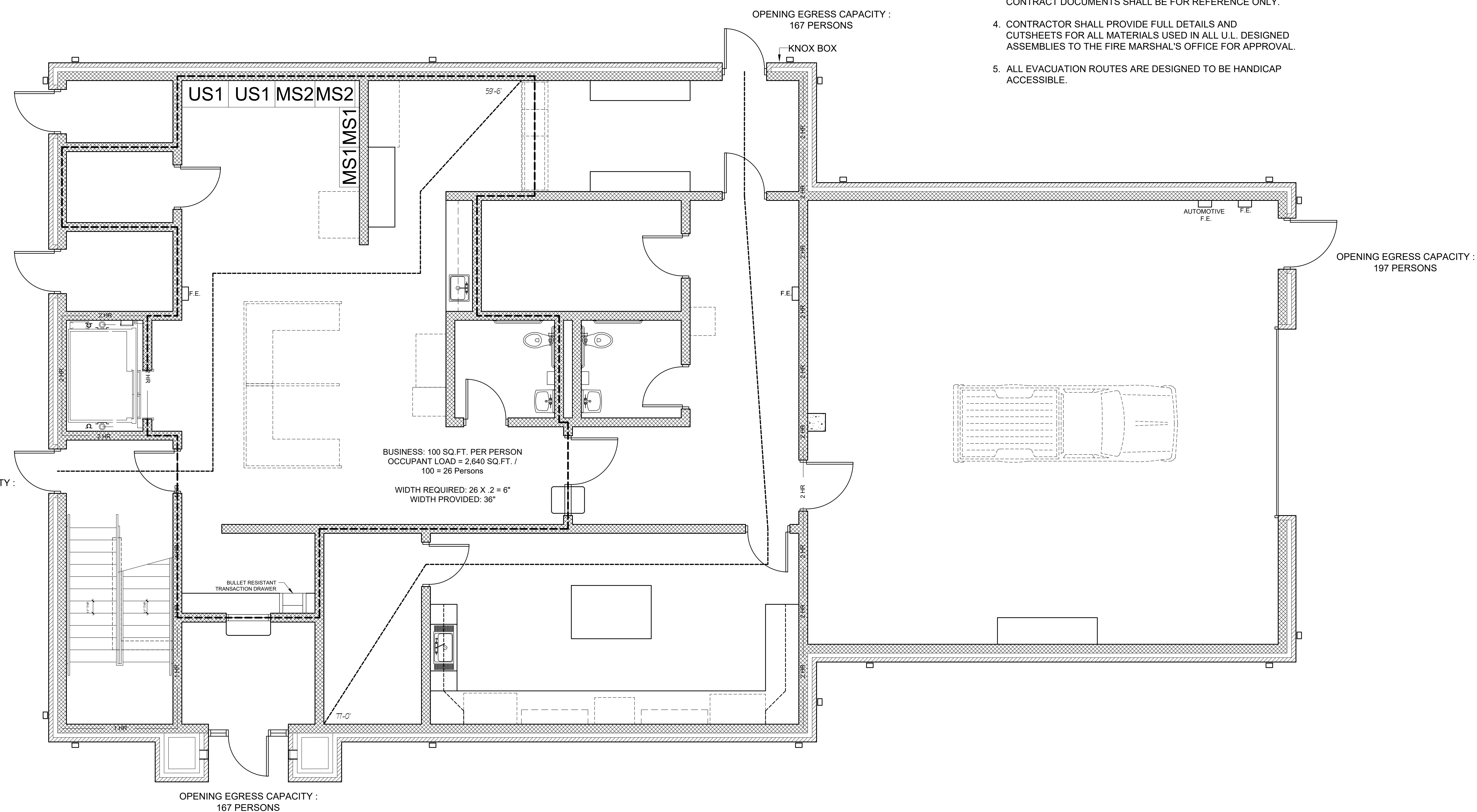
A NEW BUILDING FOR:  
**DALTON POLICE DEPARTMENT**  
WHITFIELD COUNTY  
DALTON, GA 30720



SHEET INDEX  
FIRST FLOOR  
LIFE SAFETY PLAN

SHEET INDEX

**A0.1**



**1 LIFE SAFETY FLOOR PLAN**  
SCALE: 3/16" = 1'-0"

**FOR CONSTRUCTION**

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**LEGEND**

- 8" CMU BLOCK EXTEND TO 1'-0" ABOVE CEILING, UNLESS NOTED OTHERWISE.
- 1 HOUR RATED
- 2 HOUR RATED
- DOOR NUMBER TAG
- WINDOW OR FRAME TAG
- FIRE EXTINGUISHER AND CABINET
- TOP ENCLOSURE IN SPACE SHALL BE RATED TO MATCH ADJACENT WALLS IN ACCORDANCE WITH UL P521. SEE DETAILS FOR FURTHER INFORMATION.

**GENERAL LIFE SAFETY PLAN NOTES:**

1. KEY LOCK BOX IS REQUIRED. THE FIRE INSPECTOR WILL APPROVE THE LOCATION FOR THE BOX DURING THE 50% INSPECTION. GENERALLY, THESE BOXES ARE LOCATED SIX (6) FEET ABOVE GRADE AND TO THE RIGHT OF THE MAIN ENTRY DOOR. THE REQUIRED KNOX BOX MUST BE ORDERED THROUGH WWW.KNOXBOX.COM, USING THE LOCAL DEPARTMENT/AGENCY CODE. KNOX BOX SHALL BE OF A RECESSED TYPE, WHERE APPLICABLE. KNOX BOX TO BE PROVIDED BY GENERAL CONTRACTOR.
2. PORTABLE FIRE EXTINGUISHERS WILL BE PROVIDED PER NFPA 101. AN INSPECTOR OF THE FIRE MARSHAL'S OFFICE PRIOR TO FINAL INSPECTION WILL DETERMINE THE LOCATION AND ARRANGEMENT OF THE EXTINGUISHERS. A MINIMUM OF FOUR EXTINGUISHERS WITH THE POSSIBILITY OF ONE EVERY SEVENTY-FIVE (75) MAY BE REQUIRED.
3. CONTRACTOR SHALL SUBMIT FIRE ALARM AND FIRE SPRINKLER PLANS TO THE FIRE MARSHAL'S OFFICE FOR REVIEW AND PERMIT. CONTRACTOR SHALL BE IN POSSESSION OF PERMIT PRIOR TO COMMENCEMENT OF WORK. ANY DESIGN OF THESE SYSTEMS SHOWN ON THIS SET OF CONTRACT DOCUMENTS SHALL BE FOR REFERENCE ONLY.
4. CONTRACTOR SHALL PROVIDE FULL DETAILS AND CUTSHEETS FOR ALL MATERIALS USED IN ALL U.L. DESIGNED ASSEMBLIES TO THE FIRE MARSHAL'S OFFICE FOR APPROVAL.
5. ALL EVACUATION ROUTES ARE DESIGNED TO BE HANDICAP ACCESSIBLE.

DOOR EGRESS CAPACITIES @ .2/PERSON:		
NOMINAL OPENING SIZE	CLEAR WIDTH OF OPENING	EGRESS CAPACITY OF OPENING
3'-0" SINGLE	33.5"	167 PERSONS
3'-6" SINGLE	39.5"	197 PERSONS

**IDENTIFICATION OF FIRE AND SMOKE RATED WALLS:**

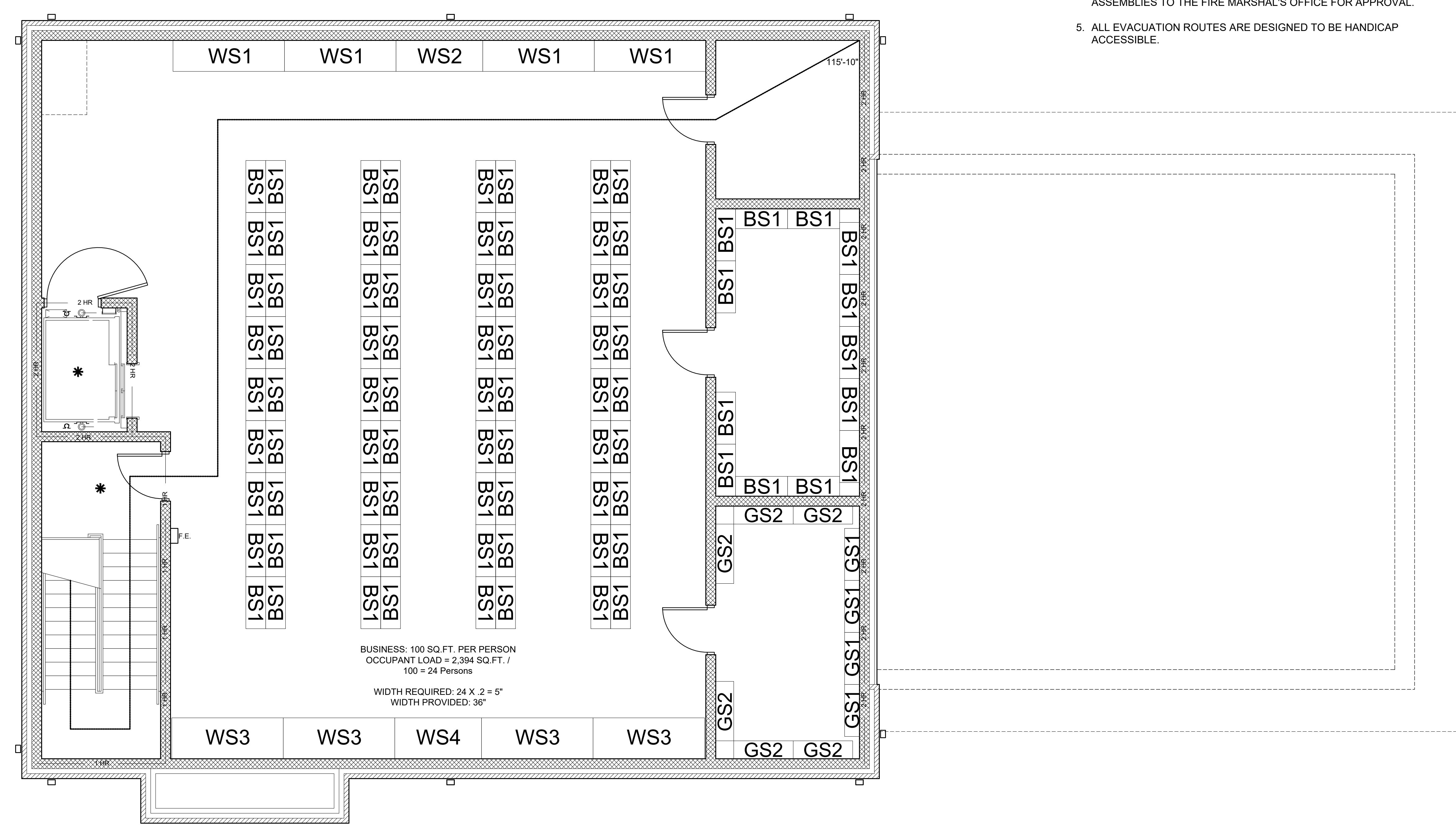
ALL FIRE RATED WALLS AND PARTITIONS SHALL BE PERMANENTLY IDENTIFIED ABOVE THE CEILING LINE WITH THE WORDING AS FOLLOWS:

"\_ HR. RATED FIRE OR SMOKE BARRIER PROTECT ALL OPENINGS"

SUCH IDENTIFICATION SHALL CONSIST OF 2" H RED LETTERS PAINTED DIRECTLY ON BOTH SIDES OF THE WALL. USE RED ENAMEL PAINT AND STENCILS. SPACING SHALL BE 10'-0" O.C. MAXIMUM.

THE FOLLOWING WALLS SHALL BE SO IDENTIFIED: ALL 1 & 2 HR RATED WALLS AND PARTITIONS - AS INDICATED ON THIS SHEET.

OPENING EGRESS CAPACITY :  
167 PERSONS



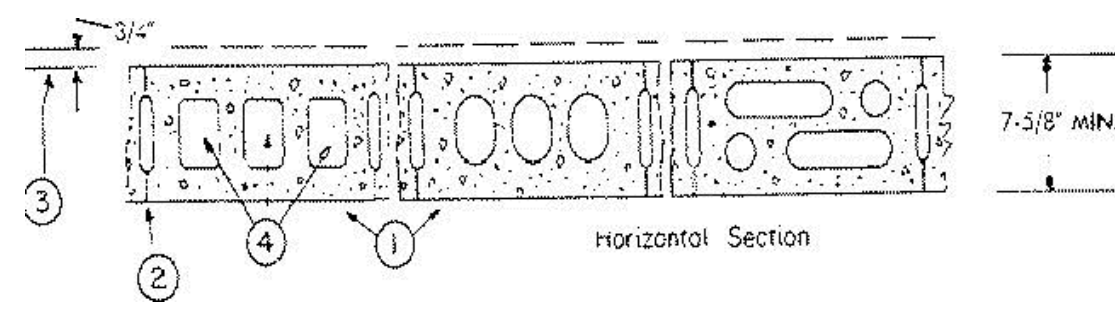
BUSINESS: 100 SQ.FT. PER PERSON  
OCCUPANT LOAD = 2,394 SQ.FT. /  
100 = 24 Persons

WIDTH REQUIRED: 24 X .2 = 5"  
WIDTH PROVIDED: 36"

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Design No. U905

Bearing Wall Rating -- 2 HR.
Nonbearing Wall Rating -- 2 HR
Load Restricted for Canadian Applications -- See Guide BXUV7



- 1. Concrete Blocks -- Various designs. Classification D-2 (2 hr).
2. Mortar -- Blocks laid in full bed of mortar, nom. 3/8 in. thick...
3. Portland Cement Stucco or Gypsum Plaster -- Add 1/2 hr to classification if used...
4. Loose Masonry Fill -- If all core spaces are filled with loose dry expanded slag...
5. Foamed Plastic -- (Optional-Not Shown) -- 1-1/2 in. thick max, 4 ft wide sheathing...

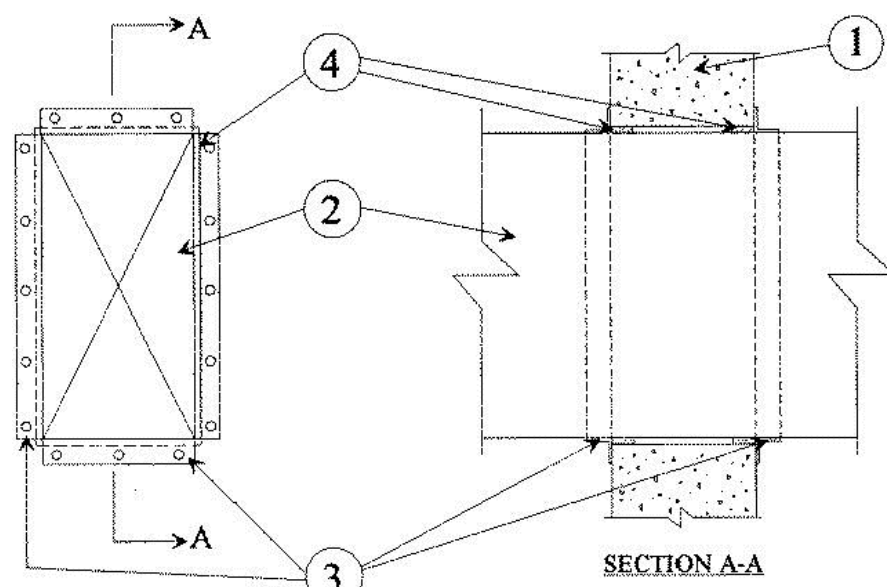
\*Bearing the UL Classification Mark

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System No. W-J-7001

F Rating -- 1 Hr
T Rating -- 0 Hr



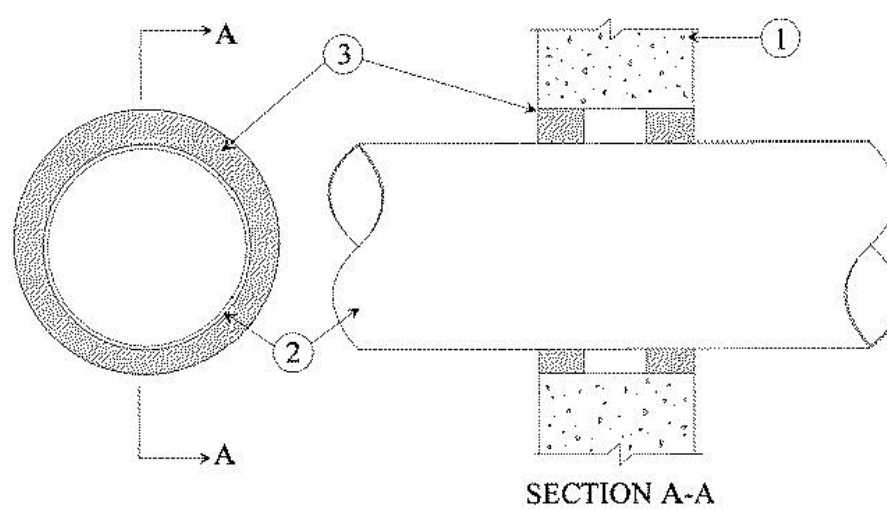
- 1. Wall Assembly -- Min 3-3/4 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete wall...
2. Steel Vent Duct -- Nom 12 x 24 in. (or smaller) x 24 gauge (or heavier) galv steel vent duct...
3. Steel Retaining Angle -- Nom 2 x 2 x 1/8 in. steel angles attached to all four sides of the wall...
4. Fill, Void or Cavity Material -- Sealant -- Min 5/8 in. thickness of fill material applied within the annulus...

HILTI INC -- CP601S, CP606 or FS-One Sealant

\*Bearing the UL Classification Mark

System No. W-J-1028

F Ratings -- 1 & 2 Hr (See Item 3)
T Rating -- 0 Hr



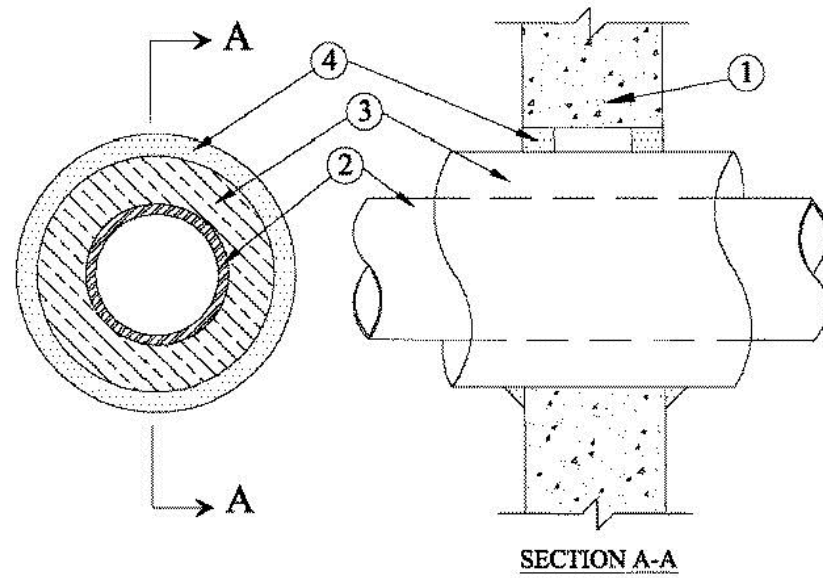
- 1. Wall Assembly -- Min 2-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete wall...
2. Through-Penetrants -- One metallic pipe, conduit or tubing to be centered within the firestop system...
3. Pipe Coverings -- One of the following types of pipe coverings shall be used:
A. Pipe and Equipment Coverings and Materials -- Nom 2 in. thick hollow cylindrical heavy density (min 3.5 pcf) glass fiber units...
4. Fill, Void or Cavity Material -- Sealant -- Min 5/8 in. or 1-1/4 in. thickness of fill material applied within the annulus...

HILTI INC -- CP 601s or FS-ONE Sealant

\*Bearing the UL Classification Mark

System No. W-J-5042

F Ratings -- 1 and 2 Hr (See Items 1 and 4)
T Ratings -- 1-3/4, 1-1/2 and 1-3/4 Hr (See Item 3)
L Rating At Ambient -- 4 CFM/Sq Ft
L Rating at 400 F -- Less Than 1 CFM/Sq Ft



- 1. Wall Assembly -- Min 3-3/4 in. and 5 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete for 1 and 2 h rated assemblies...
2. Through-Penetrants -- One metallic pipe or tubing to be centered within the firestop system...
3. Pipe Covering -- Nom 1, 1-1/2 or 2 in. thick hollow-cylindrical heavy density (min 3.5 pcf) glass fiber units...
4. Fill, Void or Cavity Material -- Sealant -- Min 5/8 in. thickness of fill material applied within the annulus...

The hourly T Rating of the firestop system is dependent on the size and type of through penetrant, the pipe covering thickness and the annular space as shown in the table below:

Table with columns: Wall Assembly Rating, Through Penetrant (Type + Max Diameter in.), Pipe Covering Thickness in., Annular Space (Min. in., Max. in.), and T Rating Hr.

+Indicates penetrant type as itemized in Item 2.

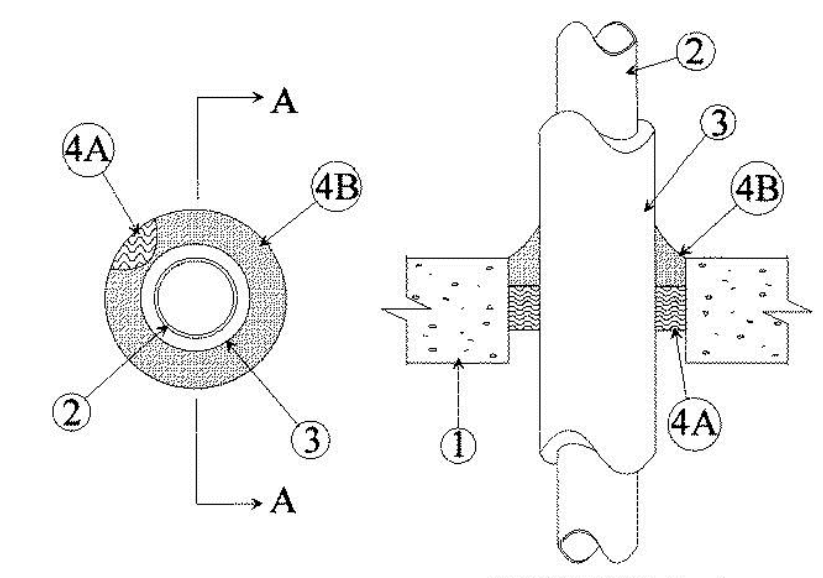
- 4. Fill, Void or Cavity Material -- Sealant -- Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between pipe covering and wall, a min 1/2 in. diam bead of fill material shall be applied at the pipe covering/wall interface on both surfaces of wall. HILTI CONSTRUCTION CHEMICALS, DIV OF

HILTI INC -- FS-One Sealant

\*Bearing the UL Classification Mark

System No. C-BJ-5008

F Rating -- 3 Hr
T Rating -- 3 Hr



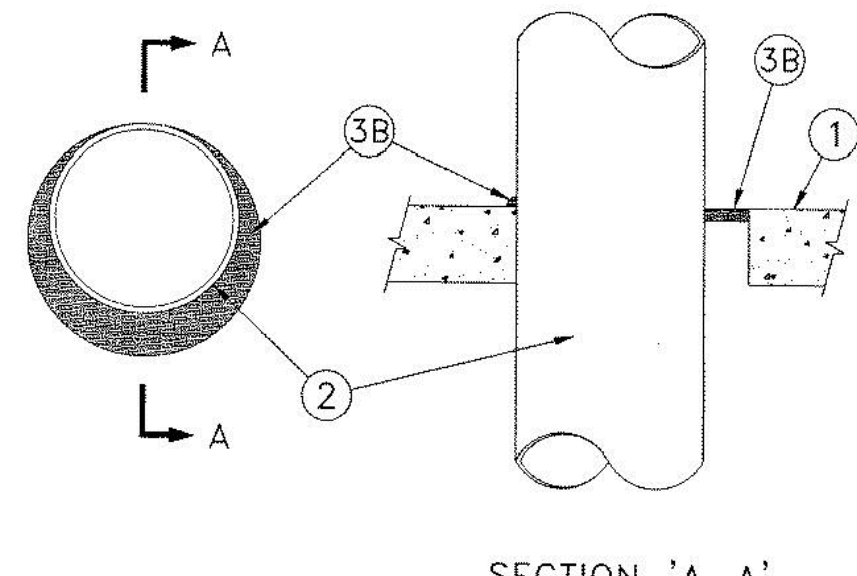
- 1. Floor or Wall Assembly -- Min 6 in. thick reinforced normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks...
2. Steel Pipe -- Nom 8 in. diam (or smaller) Schedule 10 (or heavier) steel pipe...
3. Pipe Coverings -- One of the following types of pipe coverings shall be used:
A. Pipe and Equipment Coverings and Materials -- Nom 2 in. thick hollow cylindrical heavy density (min 3.5 pcf) glass fiber units...
4. Fill, Void or Cavity Material -- Sealant -- Min 5/8 in. or 1-1/4 in. thickness of fill material applied within the annulus...

- 1. Firestop System -- The firestop system shall consist of the following:
A. Packing Material -- Min 2-1/2 in. thickness of min 4 pcf mineral wool batt insulation...
B. Fill, Void or Cavity Material -- Sealant -- Min 1 in. thickness of fill material applied within the annulus...

\*Bearing the UL Classification Mark

System No. C-AJ-1235

F Ratings -- 2 and 3 Hr (See Item 3B)
T Rating -- 0 Hr
L Rating at Ambient -- Less than 1 CFM/sq ft
L Rating at 400° F -- Less than 1 CFM/sq ft



- 1. Floor or Wall Assembly -- Min 4-1/2 in. (114 mm) thick reinforced normal weight (140-150 pcf or 2200-2400 kg/m3) concrete...
1A. Metallic Sleeve -- (Not shown, Optional) -- Nom 8 in. (203 mm) diam (or smaller) Schedule 10 (or heavier) steel sleeve...

- 2. Through Penetrants -- One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system...
3. Firestop System -- The firestop system shall consist of the following:
A. Packing Material -- Min 4 pcf (64 m3) mineral wool batt insulation...

- B. Fill, Void or Cavity Material -- Sealant -- Fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall...

- C. Conduit -- Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT) or nom 6 in. (152 mm) diam (or smaller) steel conduit...
D. Copper Tubing -- Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper pipe...
E. Copper Pipe -- Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe...

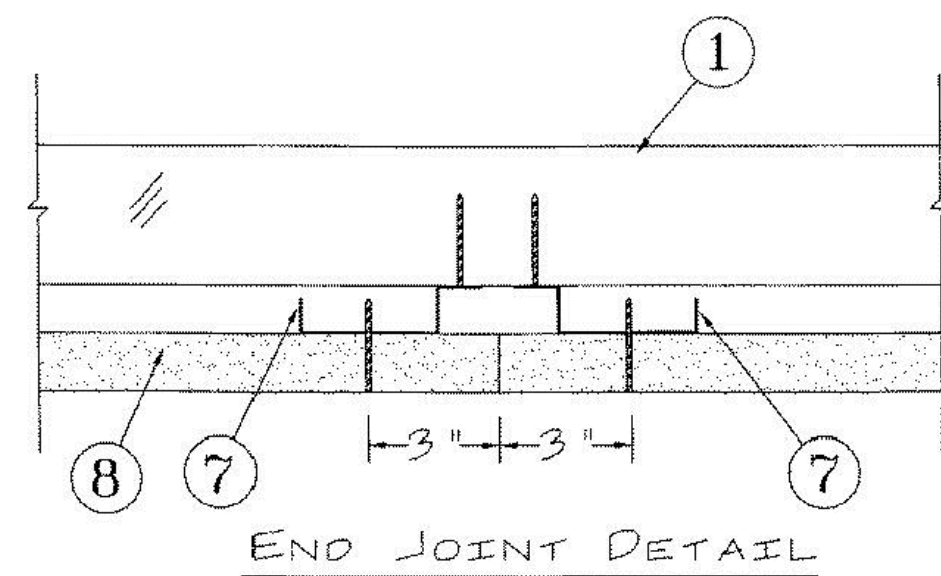
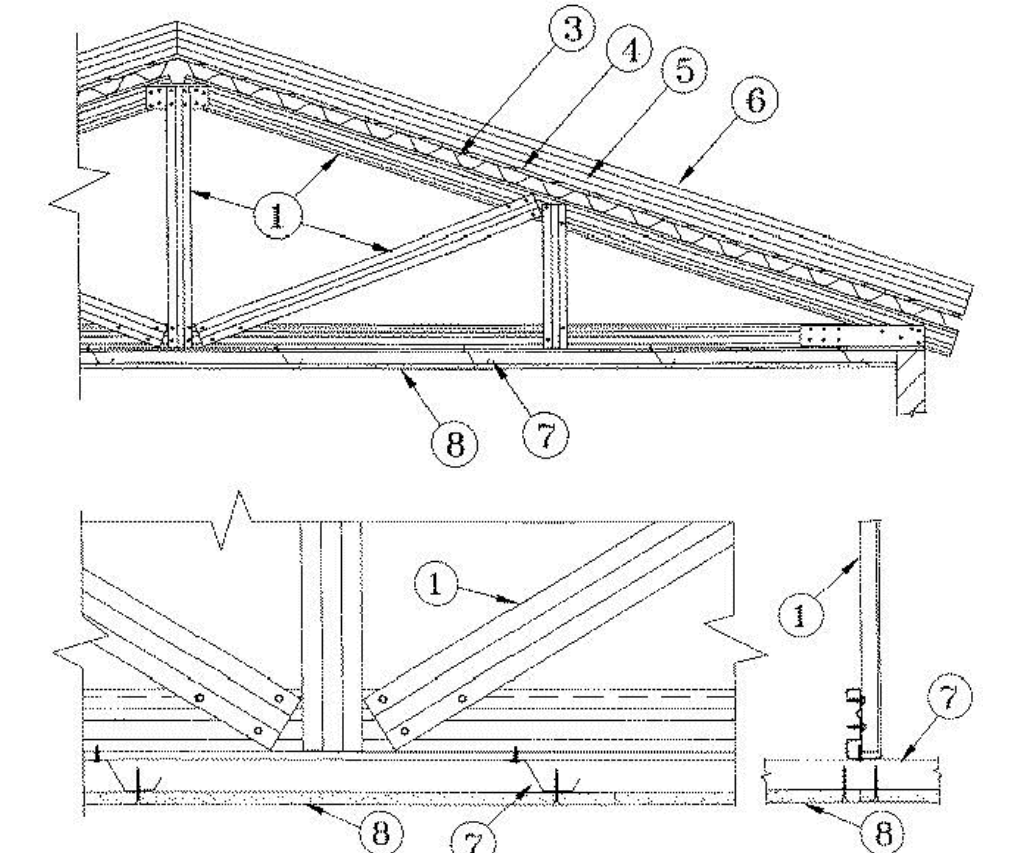
- 5C. Roof Insulation -- Building Units -- (Not Shown) -- As an alternate to Item 5 -- Any polycyanurate foamed plastic insulation faced on the top surface with oriented strand board or faced on the underside or both sides with wood fiber board...
5D. Roof Insulation -- Foamed Plastic -- (Not Shown) -- For use with Item 8A. Any polycyanurate foamed plastic insulation boards bearing the UL Classification Marking...
6A. Roofing Membrane -- (Not Shown) -- In lieu of Item 6, single-ply membrane that is either ballasted, adhered or mechanically attached to the insulation(s) described herein as permitted under the respective company's Classification...

Table with columns: Use of Steel Sleeve, Max. Dia. of Srt. Sleeve in., Type of Through Penetration, Max. Dia. of Through Penetration in., Type of Fill Material, Min. Fill Material Thickness in., and F Rating Hr.

W R GRACE & CO - CONN -- FlameSafe® FS1900, Flamesafe® FS900, FlameSafe® FS900+
\*Bearing the UL Classification Mark

Design No. P521
October 09, 2017
Restrained Assembly Rating -- 1, 1-1/2 and 2 Hr. (See Items 3A, 5, 5A, 5B, 5C, 5D, 8 and 8A)
Unrestrained Assembly Rating -- 1, 1-1/2 and 2 Hr. (See Items 3A, 5, 5A, 5B, 5C, 5D, 8 and 8A)
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method)...

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



- 1. Structural Steel Members -- Pre-fabricated light gauge steel truss system consisting of cold-formed, galvanized steel chord and web sections...
2. Bridging -- (Not Shown) -- Location of lateral bracing for truss chord and web sections to be specified on truss engineering...
3. Steel Floor and Form Units -- (Classified or Unclassified) -- Corrugated or fluted steel form units...
4. Cementitious Backer Units -- Nom 1/2 or 5/8 in. thick sheets...
4A. Gypsum Board -- (Classified or Unclassified) -- (Not Shown) -- As an alternate to Item 4, Gypsum sheathing...
5A. Roof Insulation -- Foamed Plastic -- (Not Shown) -- As an alternate to Item 5 -- For 1 and 1-1/2 hr ratings only...

- 2. Gypsum Board -- For all ratings except the 2 Hr Assembly Ratings -- One layer of nom 5/8 in. thick by 48 in. wide boards...
UNITED STATES GYPSUM CO -- Types C, IP-X2, IPC-AR.
USG MEXICO S A DE C V -- Types C, IP-X2, IPC-AR.

PROJECT NUMBER

23-021

DATE

12/01/23

REVISIONS

NO. DATE

0000 00/00/00

FACILITY CODE

000-0000



855 ABUTMENT ROAD
SUITE FOUR
DALTON, GA 30721
TEL. 706.529.5895

A NEW BUILDING FOR:
DALTON POLICE DEPARTMENT
WHITFIELD COUNTY
DALTON, GA 30720



SHEET INDEX

LIFE SAFETY AND NOTES

SHEET INDEX

A0.3

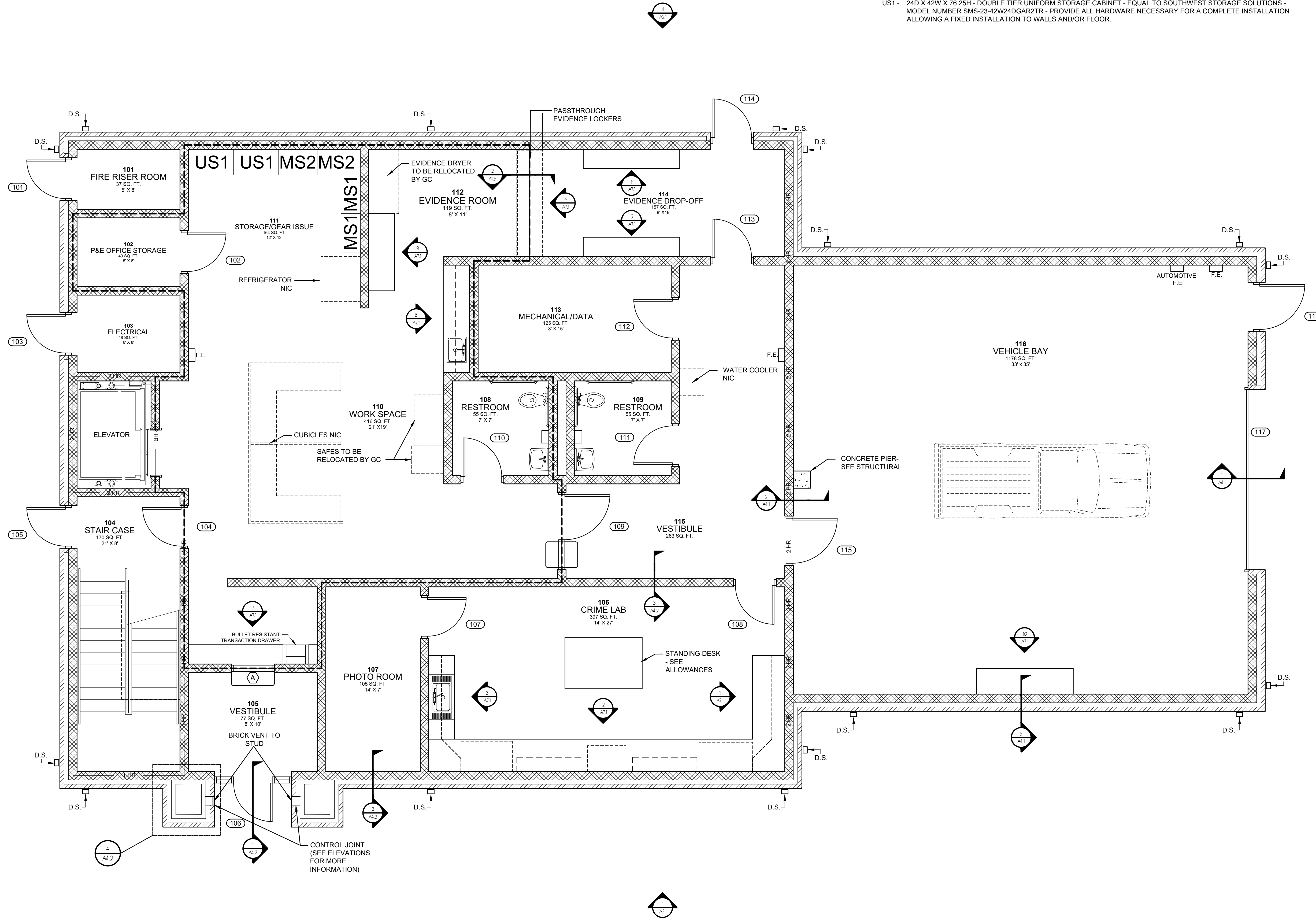
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METAL STORAGE SHELVING LEGEND

- MS1 - 18D X 36W X 87H - 7- SHELF STORAGE SYSTEM - EQUAL TO SOUTHWEST STORAGE SOLUTIONS - DELUXE SHELVING SYSTEM - SHELVING UNIT SHALL BE CLOSED IN TYPE AND HAVE 18GA HEAVY DUTY SHELVING W/ ANGLE FRONT LEGS - INCLUDE FEET AND ALL ACCESSORIES NECESSARY FOR A COMPLETE SYSTEM INSTALL AND ALLOWING A FIXED INSTALLATION TO WALLS AND/OR FLOOR.
- MS2 - 24D X 36W X 87H - 7- SHELF STORAGE SYSTEM - EQUAL TO SOUTHWEST STORAGE SOLUTIONS - DELUXE SHELVING SYSTEM - SHELVING UNIT SHALL BE CLOSED IN TYPE AND HAVE 18GA HEAVY DUTY SHELVING W/ ANGLE FRONT LEGS - INCLUDE FEET AND ALL ACCESSORIES NECESSARY FOR A COMPLETE SYSTEM INSTALL AND ALLOWING A FIXED INSTALLATION TO WALLS AND/OR FLOOR.
- US1 - 24D X 42W X 76.25H - DOUBLE TIER UNIFORM STORAGE CABINET - EQUAL TO SOUTHWEST STORAGE SOLUTIONS - MODEL NUMBER SMS-23-42W24GAR2TR - PROVIDE ALL HARDWARE NECESSARY FOR A COMPLETE INSTALLATION ALLOWING A FIXED INSTALLATION TO WALLS AND/OR FLOOR.

LEGEND

- DOOR NUMBER TAG
  - NEW WINDOW TYPE TAG
  - F.E. - FIRE EXTINGUISHER EXACT LOCATION COORDINATE W/ ALL EQUIPMENT
  - PORTIONS OF WALL TO EXTEND TO DECK
- NOTE: FOR LARGE SCALE TOILETS SEE SHEETS A6.1  
 NOTE: SEE LARGE SCALE PLANS FOR ADDITIONAL TYPICAL CASEWORK ELEVATION MARKERS.  
 NOTE: FOR LARGE SCALE TYP. STAIRS SEE SHEET A6.1  
 NOTE: DOWNSPOUTS SHALL BE PREFINISHED TO MATCH SELECTED METAL ROOFING SYSTEM AND GUTTERS. DOWNSPOUTS SHALL BE 4" X 6" AND RECTANGULAR IN SHAPE.



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

FOR CONSTRUCTION

PROJECT NUMBER  
**23-021**

DATE  
**12/01/23**

REVISIONS	
NO.	DATE
0000	00/00/00

FACILITY CODE  
**000-0000**



855 ABUTMENT ROAD  
 SUITE FOUR  
 DALTON, GA 30721  
 TEL. 706.529.5895

A NEW BUILDING FOR:  
**DALTON POLICE DEPARTMENT**  
 WHITFIELD COUNTY  
 DALTON, GA 30720



SHEET INDEX  
 FIRST LEVEL  
 FLOOR PLAN

SHEET INDEX

**A1.1**

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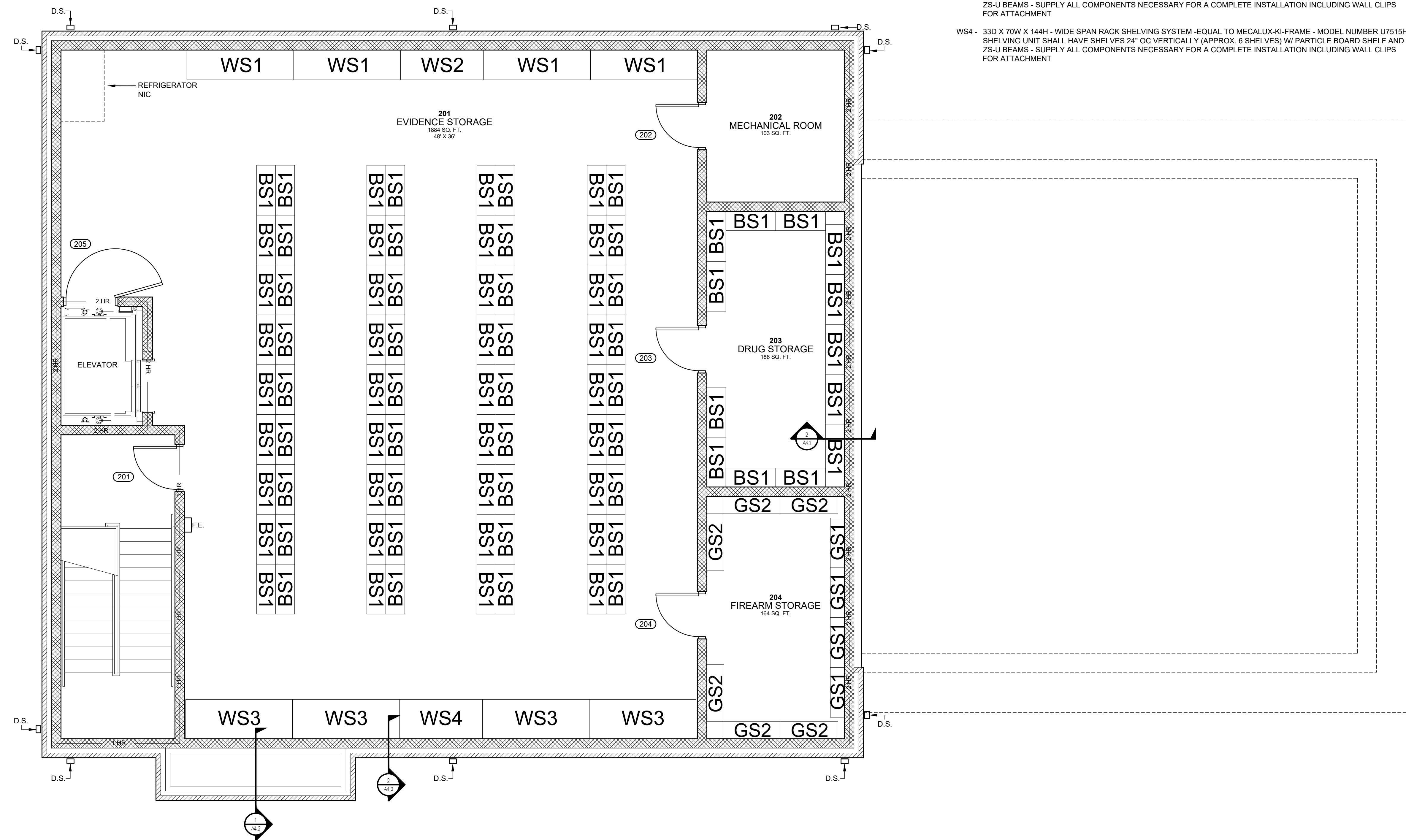
**METAL STORAGE SHELVING LEGEND**

- BS1 - 16D X 42W X 88H - SINGLE SIDED BOX STORAGE SHELVING - EQUAL TO SOUTHWEST STORAGE SOLUTIONS - MODEL NUMBER SMS-20-421688-08 - SHELVING UNIT SHALL HAVE 7 OPENINGS AND 8 SHELVES
- GS1 - 12D X 42W X 76.25H - HANDGUN STORAGE SHELVING - EQUAL TO SOUTHWEST STORAGE SOLUTIONS - MODEL NUMBER SMS-22-761242GAR4L - SHELVING UNIT SHALL BE 4 LEVELS - PROVIDE (60) HANDGUN BAGS WITH EACH UNIT - MODEL NUMBER SMS-21-PCGBHD123665IMP
- GS2 - (2) 14.5D X 48W X 36H - LONG GUN SLAT WALL RACK - EQUAL TO HOLDUP DISPLAYS - MODEL NUMBER HD91-B - AT EACH LOCATION PROVIDE (2) RACK DISPLAYS STACKED VERTICALLY. PROVIDE ALL HARDWARE NECESSARY FOR A COMPLETE INSTALLATION ALLOWING A FIXED INSTALLATION TO WALLS.
- WS1 - 24D X 90W X 144H - WIDE SPAN RACK SHELVING SYSTEM - EQUAL TO MECALUX-KI-FRAME - MODEL NUMBER U7515H - SHELVING UNIT SHALL HAVE SHELVES 24" OC VERTICALLY (APPROX. 6 SHELVES) W/ PARTICLE BOARD SHELF AND ZS-U BEAMS - SUPPLY ALL COMPONENTS NECESSARY FOR A COMPLETE INSTALLATION INCLUDING WALL CLIPS FOR ATTACHMENT
- WS2 - 24D X 70W X 144H - WIDE SPAN RACK SHELVING SYSTEM - EQUAL TO MECALUX-KI-FRAME - MODEL NUMBER U7515H - SHELVING UNIT SHALL HAVE SHELVES 24" OC VERTICALLY (APPROX. 6 SHELVES) W/ PARTICLE BOARD SHELF AND ZS-U BEAMS - SUPPLY ALL COMPONENTS NECESSARY FOR A COMPLETE INSTALLATION INCLUDING WALL CLIPS FOR ATTACHMENT
- WS3 - 33D X 90W X 144H - WIDE SPAN RACK SHELVING SYSTEM - EQUAL TO MECALUX-KI-FRAME - MODEL NUMBER U7515H - SHELVING UNIT SHALL HAVE SHELVES 24" OC VERTICALLY (APPROX. 6 SHELVES) W/ PARTICLE BOARD SHELF AND ZS-U BEAMS - SUPPLY ALL COMPONENTS NECESSARY FOR A COMPLETE INSTALLATION INCLUDING WALL CLIPS FOR ATTACHMENT
- WS4 - 33D X 70W X 144H - WIDE SPAN RACK SHELVING SYSTEM - EQUAL TO MECALUX-KI-FRAME - MODEL NUMBER U7515H - SHELVING UNIT SHALL HAVE SHELVES 24" OC VERTICALLY (APPROX. 6 SHELVES) W/ PARTICLE BOARD SHELF AND ZS-U BEAMS - SUPPLY ALL COMPONENTS NECESSARY FOR A COMPLETE INSTALLATION INCLUDING WALL CLIPS FOR ATTACHMENT

**LEGEND**

- DOOR NUMBER TAG
- NEW WINDOW TYPE TAG
- F.E. - FIRE EXTINGUISHER EXACT LOCATION COORDINATE W/ ALL EQUIPMENT

NOTE: FOR LARGE SCALE TOILETS SEE SHEETS A6.1.  
NOTE: SEE LARGE SCALE PLANS FOR ADDITIONAL TYPICAL CASEWORK ELEVATION MARKERS.  
NOTE: FOR LARGE SCALE TYP. STAIRS SEE SHEET A6.1.



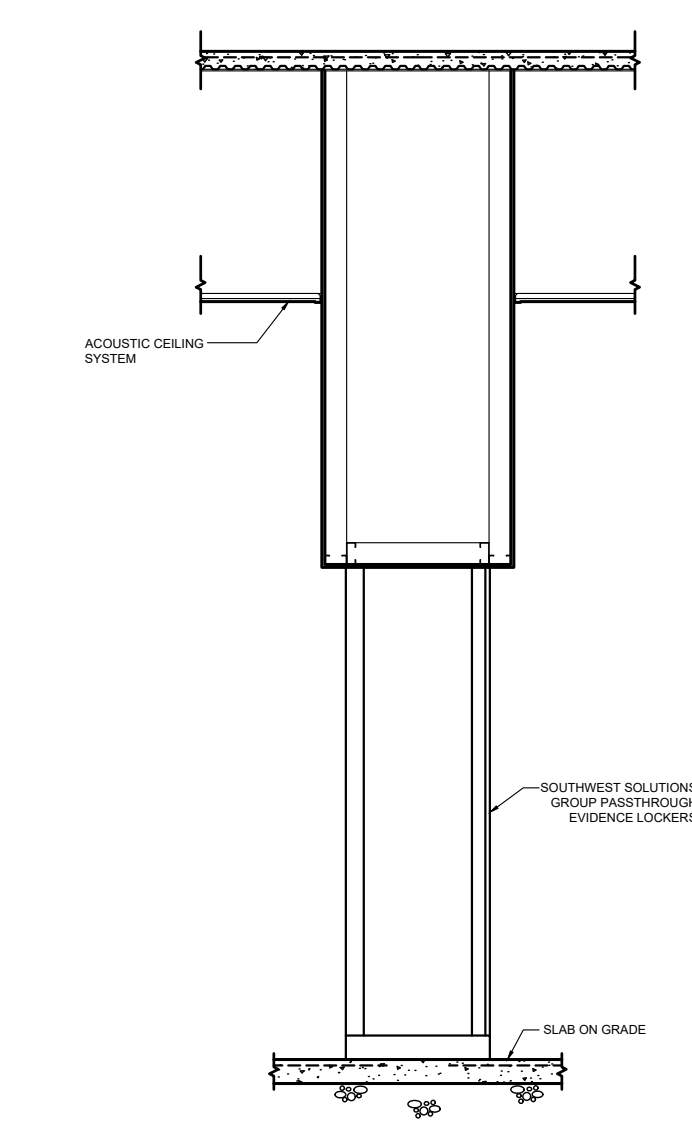
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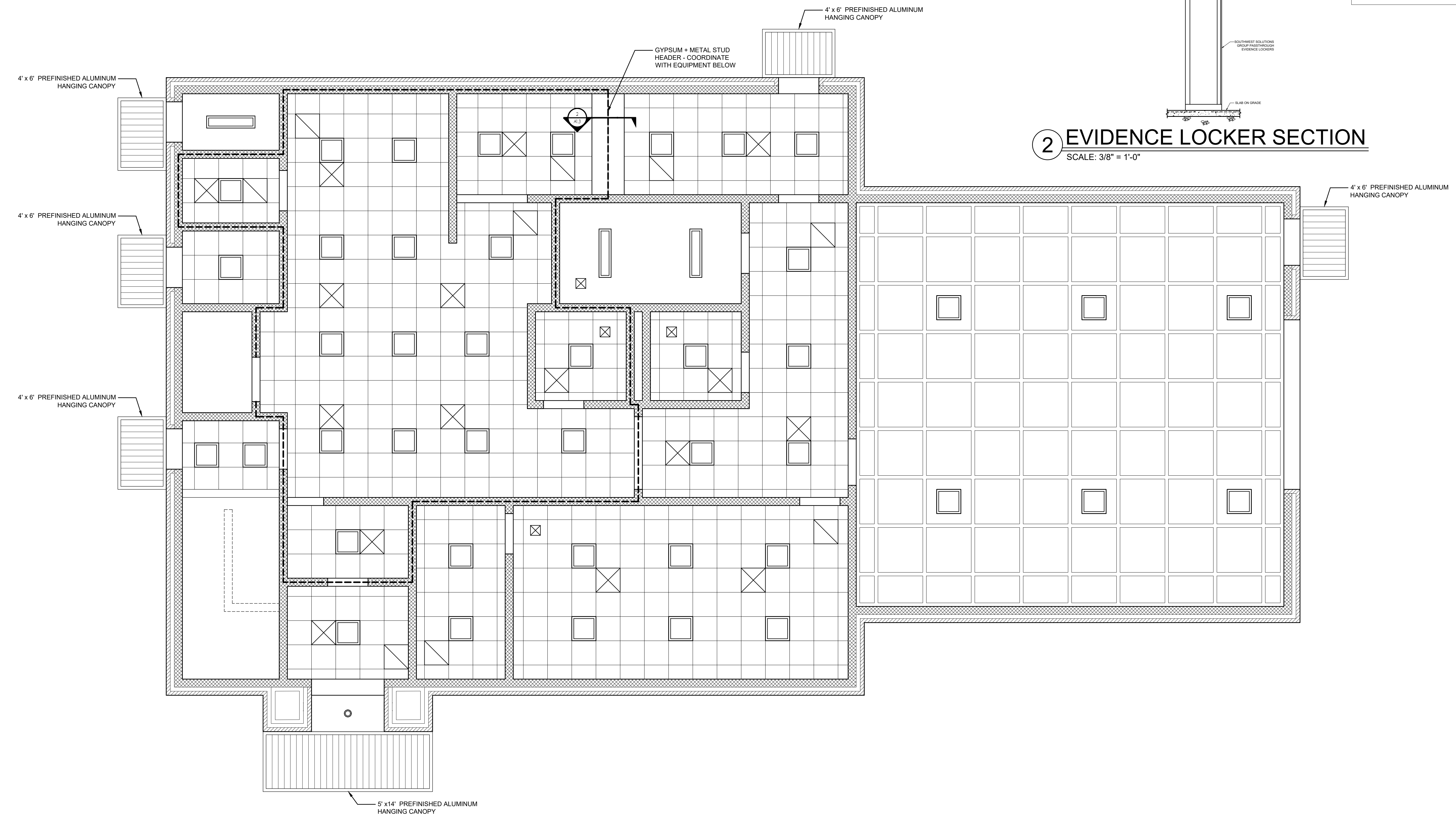


**LEGEND**

	8" CMU BLOCK EXTEND TO 1'-0" ABOVE CEILING, UNLESS NOTED OTHERWISE.
	ACOUSTIC CEILING TILE SYSTEM
	NON-VENTED SMOOTH HARDIE SOFFIT PANELS, 4'-0" X 8'-0" SIZE, ON LIGHT GAGE METAL FURRING CHANNELS EVERY 2'-0" O.C., PAIR, INSTALLED PERPENDICULAR TO TRUSSES, WITH 7/8" THICK, 2.5" WIDE HARDIE TRIM SMOOTH BATTEN BOARDS EVERY 4'-0" O.C. EACH WAY.



**2 EVIDENCE LOCKER SECTION**  
SCALE: 3/8" = 1'-0"



**1 FIRST FLOOR CEILING PLAN**  
SCALE: 3/16" = 1'-0"

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**LEGEND**

8" CMU BLOCK EXTEND TO 1'-0" ABOVE CEILING, UNLESS NOTED OTHERWISE.

ACOUSTIC CEILING TILE SYSTEM

NON-VENTED SMOOTH HARDIE SOFFIT PANELS, 4'-0" X 8'-0" SIZE, ON LIGHT GAGE METAL FURRING CHANNELS EVERY 2'-0" O.C., PAK, INSTALLED PERPENDICULAR TO TRUSSES, WITH 1/2" THICK, 2 1/2" WIDE HARDIE TRIM SMOOTH BATTEN BOARDS EVERY 4'-0" O.C. EACH WAY.

PROJECT NUMBER  
**23-021**

DATE  
**12/01/23**

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NO.	DATE
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**000-0000**



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TEL. 706.529.5895

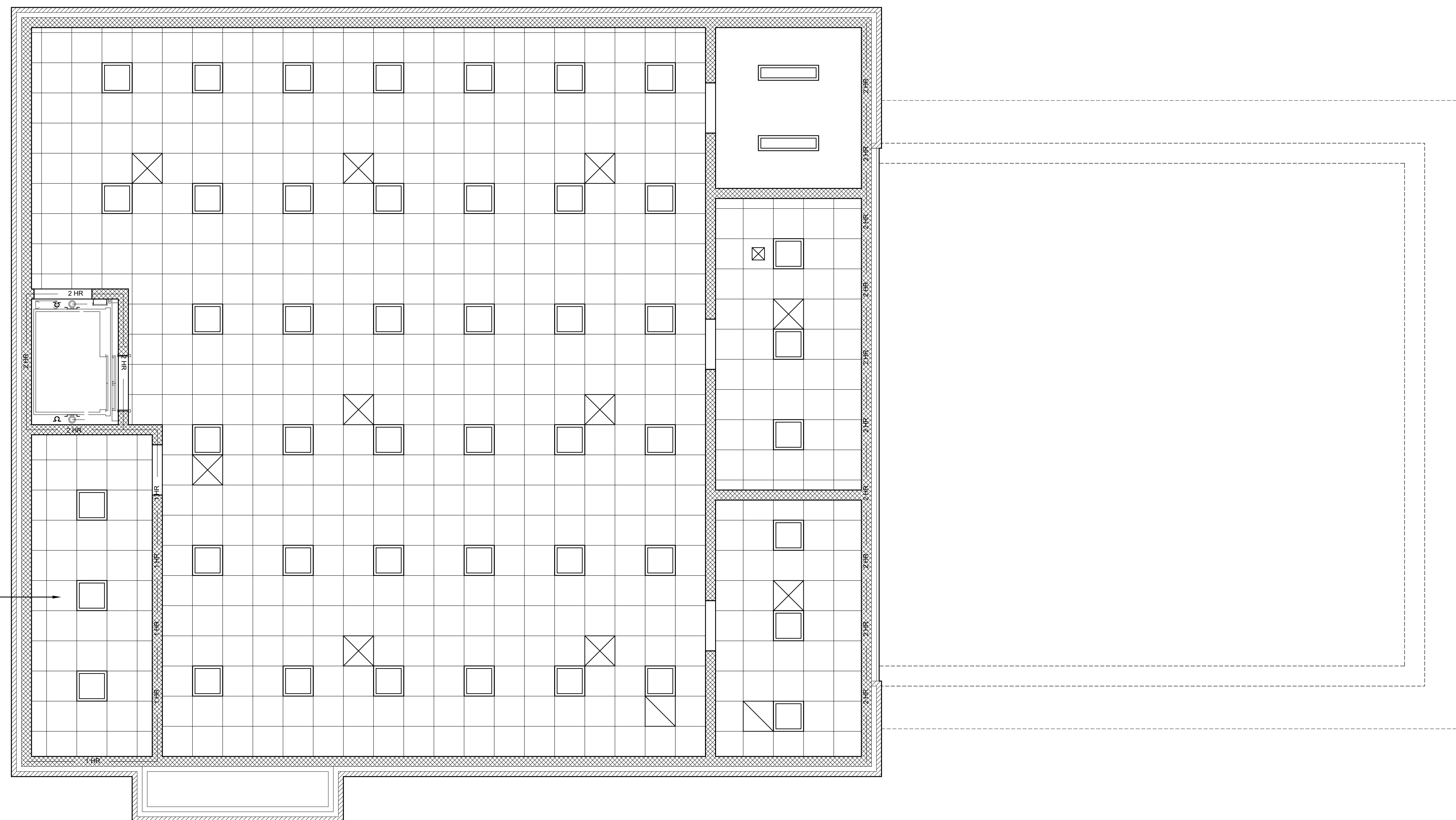
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**DALTON POLICE DEPARTMENT**  
WHITFIELD COUNTY  
DALTON, GA 30720



SHEET INDEX  
SECOND LEVEL  
REFLECTED  
CEILING PLAN

SHEET INDEX

**A1.4**



RATING TO EXTEND TO  
BOTTOM OF TRUSS.  
RATED CEILING ABOVE  
ACT PER UL P521

**1 SECOND FLOOR CEILING PLAN**  
SCALE: 3/16" = 1'-0"

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# ROOF PLAN LEGEND

- PREFINISHED METAL ROOFING SYSTEM OVER METAL DECKING. SEE SPECIFICATIONS.
- DS - DOWNSPOUT - EACH DOWNSPOUT SHALL RECEIVE (1) CAST IRON DOWNSPOUT BOOT EQUAL TO NEENAH MODEL R-4929-A8 AND SHALL CONNECT TO UNDERGROUND STORM SYSTEM - SEE CIVIL FOR FURTHER INFORMATION.

**GENERAL NOTES:**

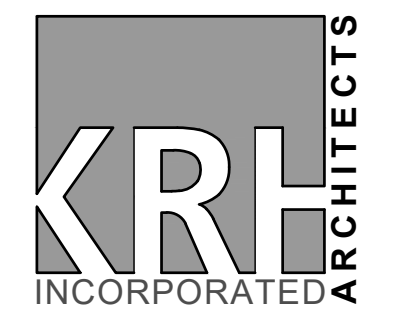
1. ALL ROOF SLOPES SHALL BE 5:12 PREFINISHED STANDING SEAM METAL ROOFING SYSTEM.
2. GUTTERS SHALL BE PREFINISHED TO MATCH SELECTED METAL ROOFING SYSTEM. GUTTERS SHALL BE 6" X 6" BOX TYPE GUTTERS
3. DOWNSPOUTS SHALL BE PREFINISHED TO MATCH SELECTED METAL ROOFING SYSTEM AND GUTTERS. DOWNSPOUTS SHALL BE 4" X 6" AND RECTANGULAR IN SHAPE.

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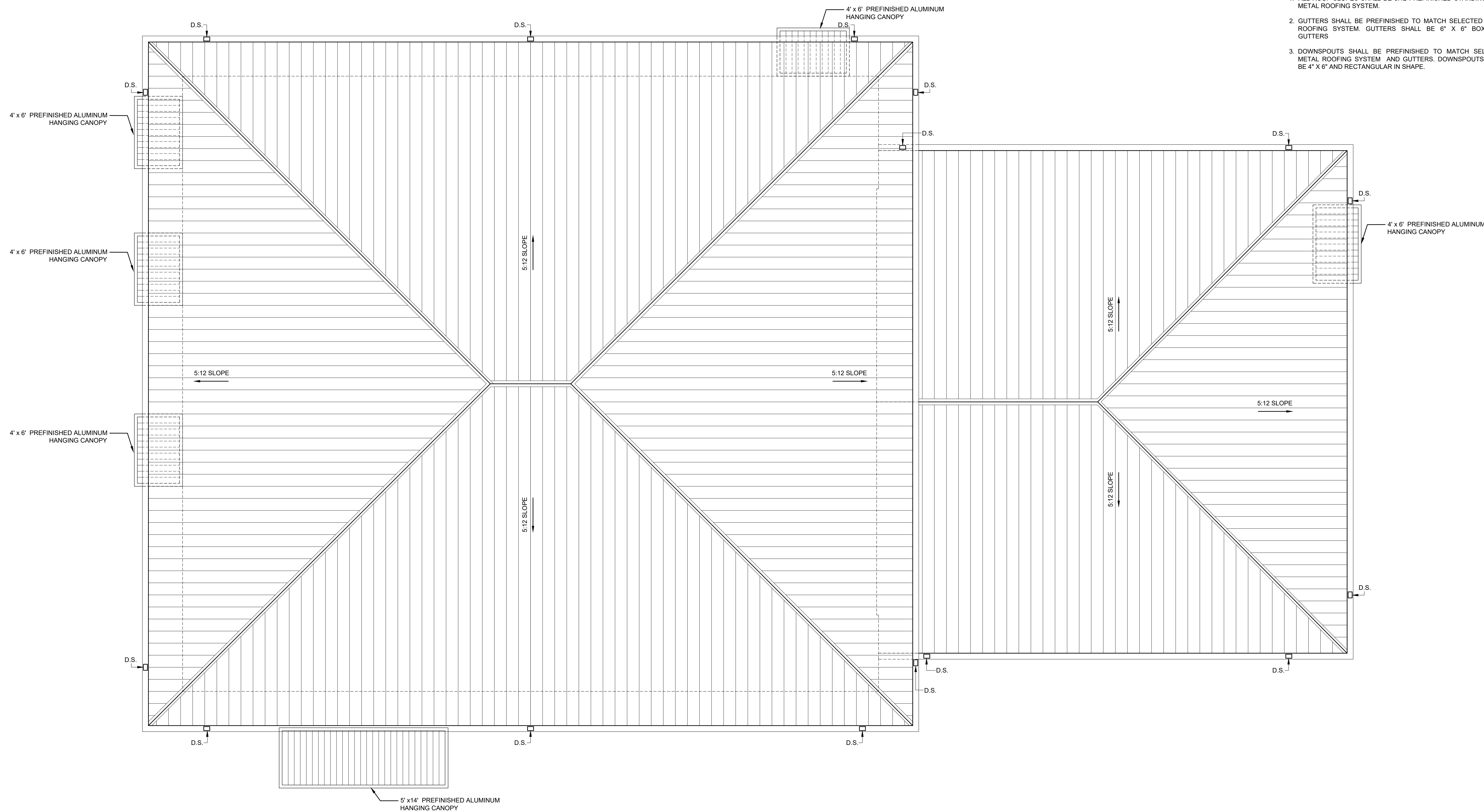


SHEET INDEX  
ROOF PLAN

SHEET INDEX

**A1.5**

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## ROOF PLAN

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

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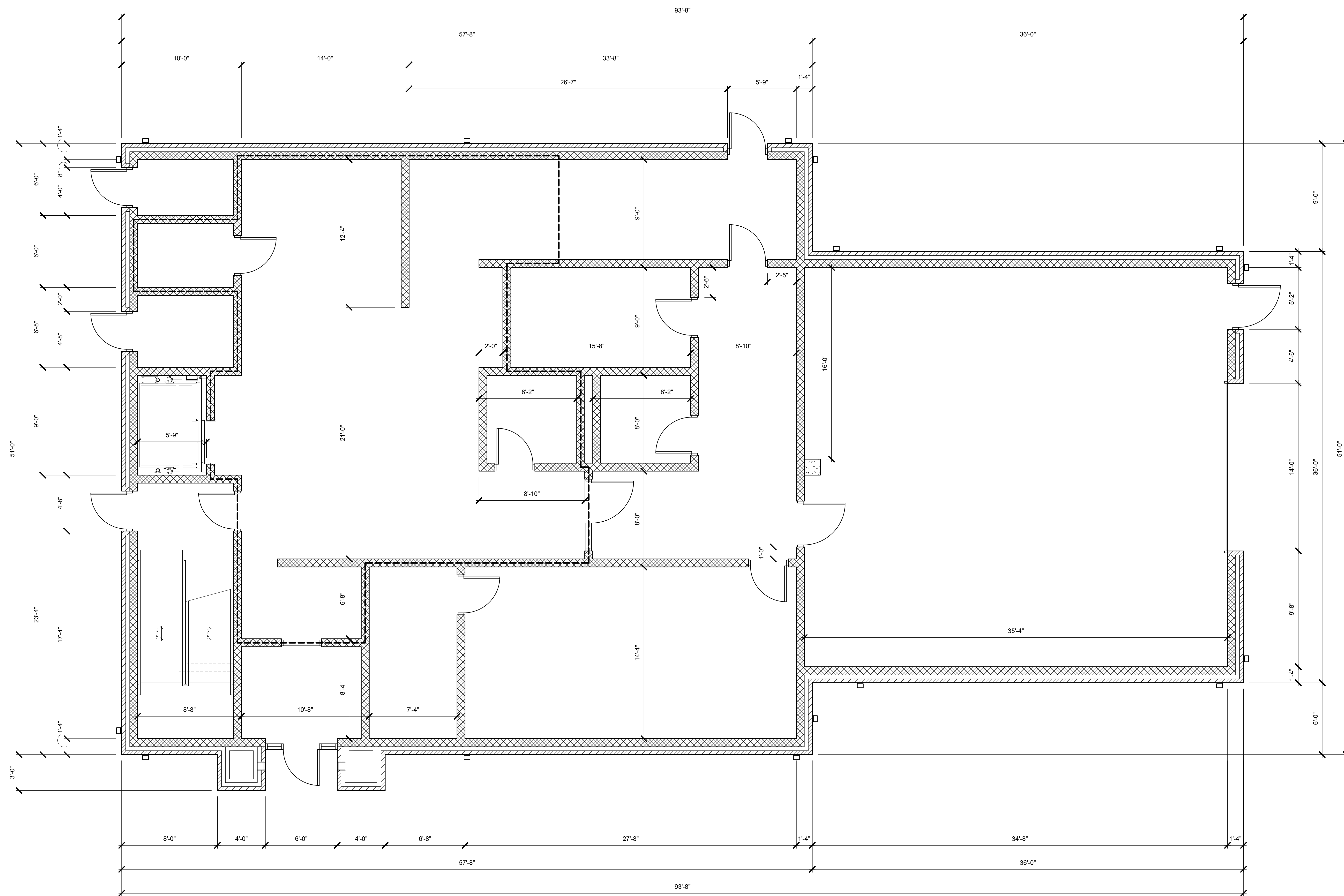


SHEET INDEX  
FIRST LEVEL  
DIMENSIONS PLAN

SHEET INDEX

A1.6

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

FOR CONSTRUCTION

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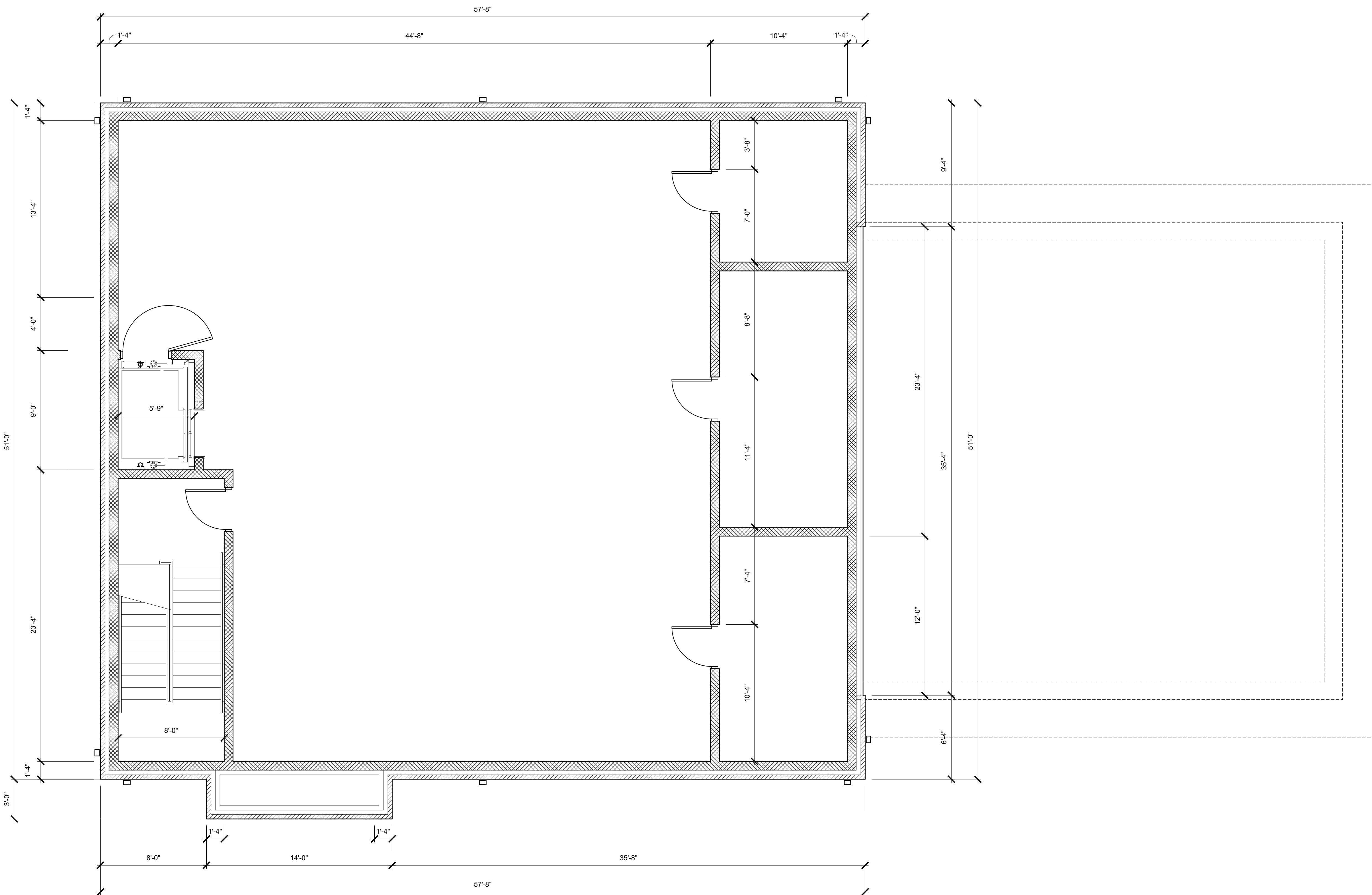
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WHITFIELD COUNTY  
DALTON, GA 30720



SHEET INDEX  
SECOND LEVEL  
DIMENSIONS PLAN

SHEET INDEX

A1.7



**2 SECOND FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

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GENERAL DEMOLITION NOTES:

\*COORDINATE ALL DEMOLITION WITH OWNER AND NEW PLANS. SEE SPECIFICATIONS, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION NOTES.

\*REMOVE ANY EXISTING CONSTRUCTION REQUIRED TO PERFORM NEW WORK.

\*EXISTING AREAS TO REMAIN THAT ARE DISTURBED BECAUSE OF WORK PERFORMED UNDER THIS CONTRACT ARE TO BE REPAIRED/RESTORED TO A CONDITION EQUAL TO ORIGINAL OR AS DIRECTED BY OWNER.

\*ALL EXISTING EQUIPMENT AND MATERIALS TO BE REMOVED SHALL BE DISPOSED OF AS DIRECTED BY OWNER.

\*WHEN EQUIPMENT IS DEMOLISHED, ALL ASSOCIATED COMPONENTS SHALL BE REMOVED.

\*CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL EQUIPMENT/ COMPONENTS INDICATED TO ACCEPT NEW EQUIPMENT.

\*CUT OFF FLUSH WITH WALL AND CAP OVER ALL PENETRATIONS NO LONGER TO BE UTILIZED IN WALLS.

\*CONTRACTOR SHALL VISIT THE SITE AND INCLUDE IN THEIR BID ANY DEMOLITION REQUIRED FOR CONSTRUCTION.

\*CONTRACTOR SHALL MAINTAIN A SECURE SITE THROUGHOUT DEMOLITION. PROVIDE LOCKABLE GATES/CHAINS/ETC. TO DETER PUBLIC ACCESS WHEN CONTRACTOR IS NOT ON SITE.

GENERAL DEMOLITION NOTES (CONTINUED):

\*CONTRACTOR SHALL PROVIDE MEASURES TO DETER UNAUTHORIZED ACCESS TO DEMOLISHED MATERIALS IN DUMPSTERS. MEASURES MAY INCLUDE FENCING, GATES, ETC. AND/OR FREQUENT OR DAILY DUMPSTER PULLS.






\*WHEN EXISTING FLOORING IS DEMOLISHED CONTRACTOR SHALL COMPLETELY REMOVE RESIDUAL FLOORING ADHESIVES/GROUTS/SEALANTS FROM ALL SPACES DOWN TO CONCRETE SLAB. LEAVE SLAB SURFACES SMOOTH, CLEAN AND FREE OF DEBRIS IN PREPARATION FOR NEW CONSTRUCTION.

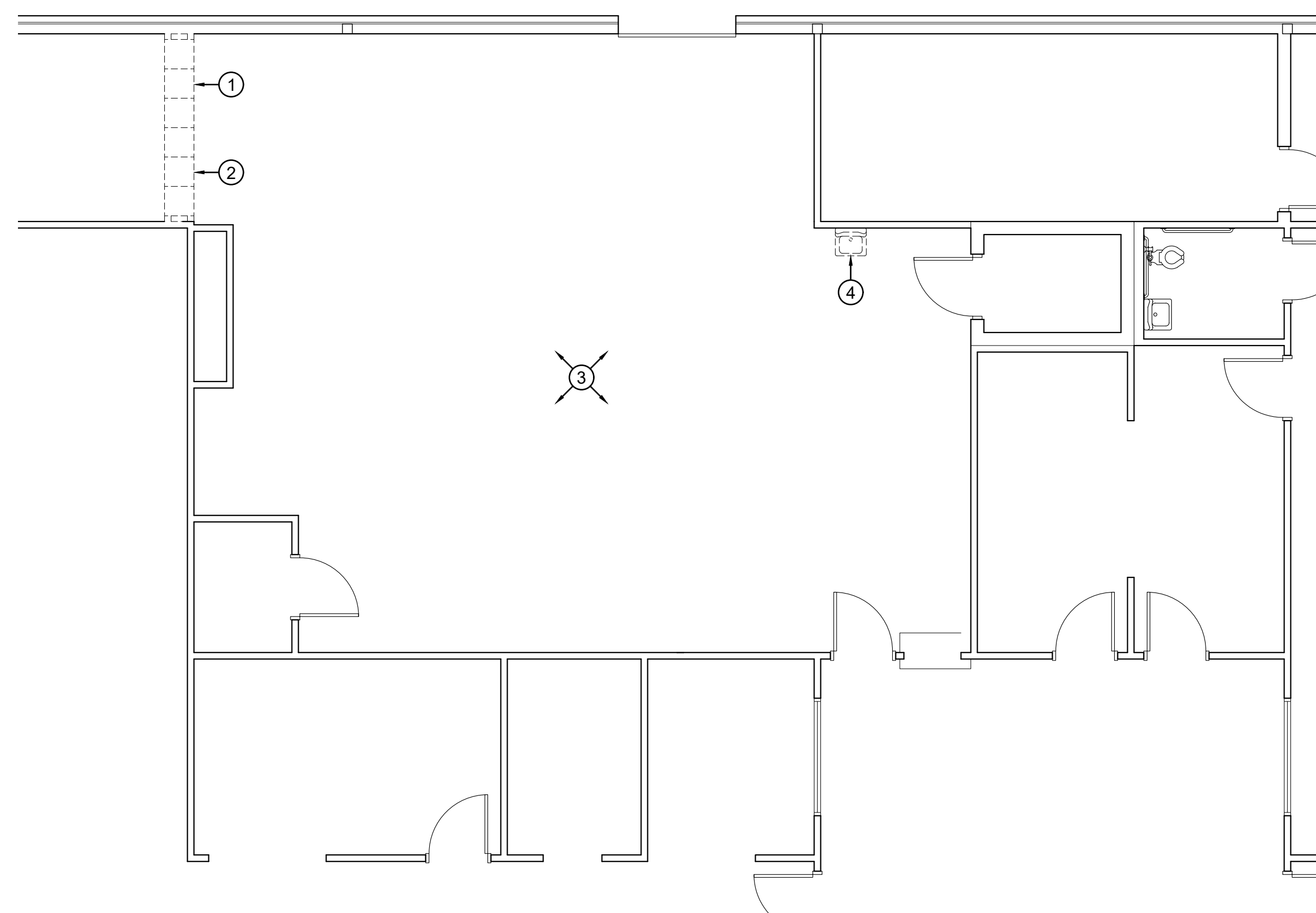
\*COMPLETELY REMOVE WALLS AS INDICATED ON PLAN. LEAVE ALL SURFACES SMOOTH, CLEAN AND FREE OF DEBRIS IN PREPARATION FOR NEW CONSTRUCTION.

KEYED DEMOLITION NOTES:

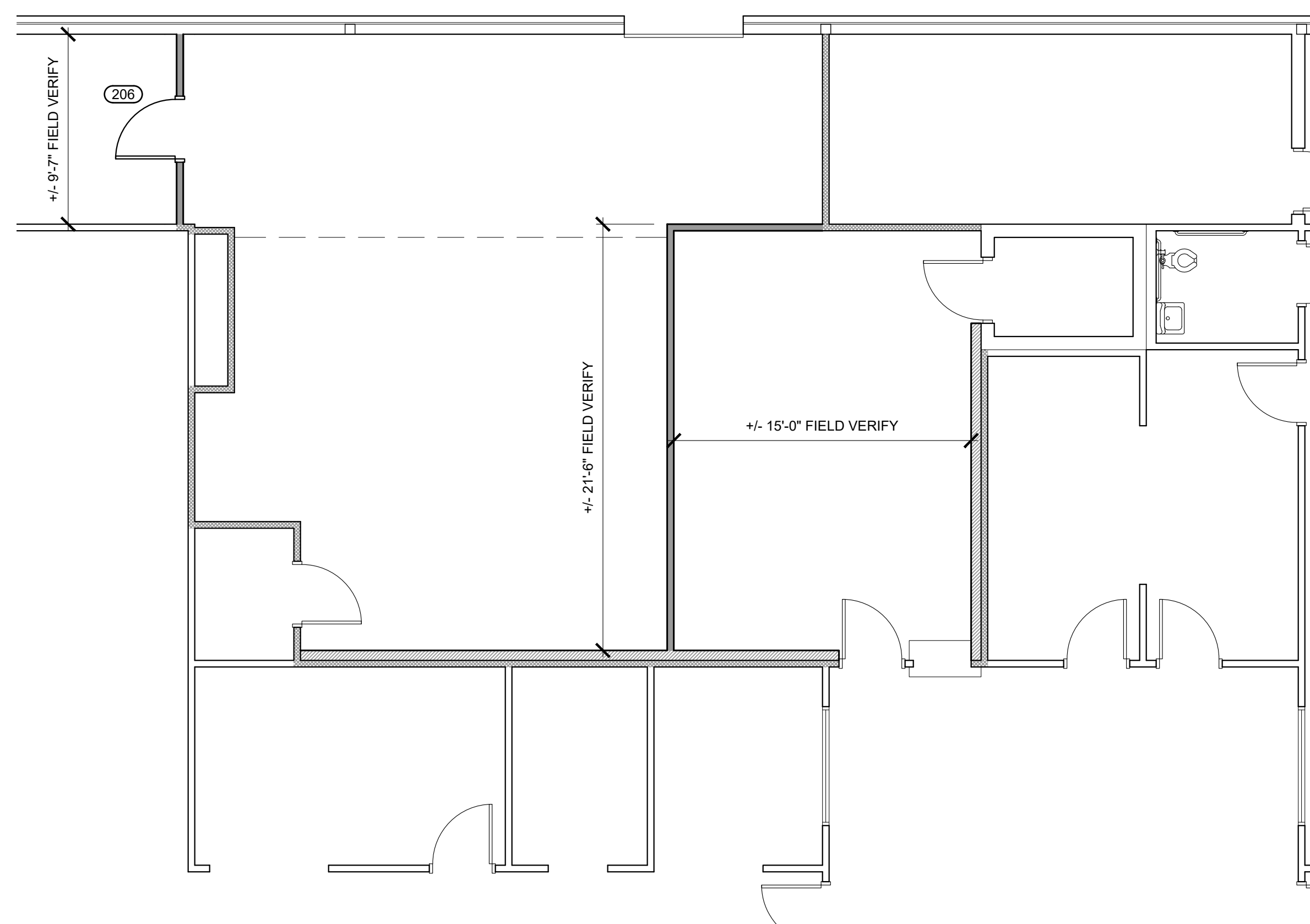
- 1 CAREFULLY REMOVE EXISTING EVIDENCE PASSTHROUGH LOCKERS, FIXTURES, AND ACCESSORIES AND COORDINATE WITH OWNER REGARDING INTENDED REUSE OR DISPOSAL OF THESE ITEMS. LEAVE ALL SURFACES SMOOTH, CLEAN AND FREE OF DEBRIS IN PREPARATION FOR NEW CONSTRUCTION.
- 2 CAREFULLY REMOVE EXISTING ELECTRICAL SERVICE DISCONNECT, WIRING, CONNECTIONS, ETC. SEE ELECTRICAL FOR FURTHER NOTES. COORDINATE WITH OWNER REGARDING INTENDED REUSE OR DISPOSAL OF THESE ITEMS.
- 3 REMOVE EXISTING LIGHT FIXTURES IN THIS SPACE IN PREPARATION FOR INSTALLATION OF NEW LIGHT FIXTURES.
- 4 COMPLETELY REMOVE EXISTING PLUMBING FIXTURES AND ALL ASSOCIATED CONNECTIONS, ACCESSORIES, PARTITIONS, ETC. LEAVE ALL SURFACES SMOOTH, CLEAN AND FREE OF DEBRIS IN PREPARATION FOR NEW CONSTRUCTION.

**PLAN LEGEND**

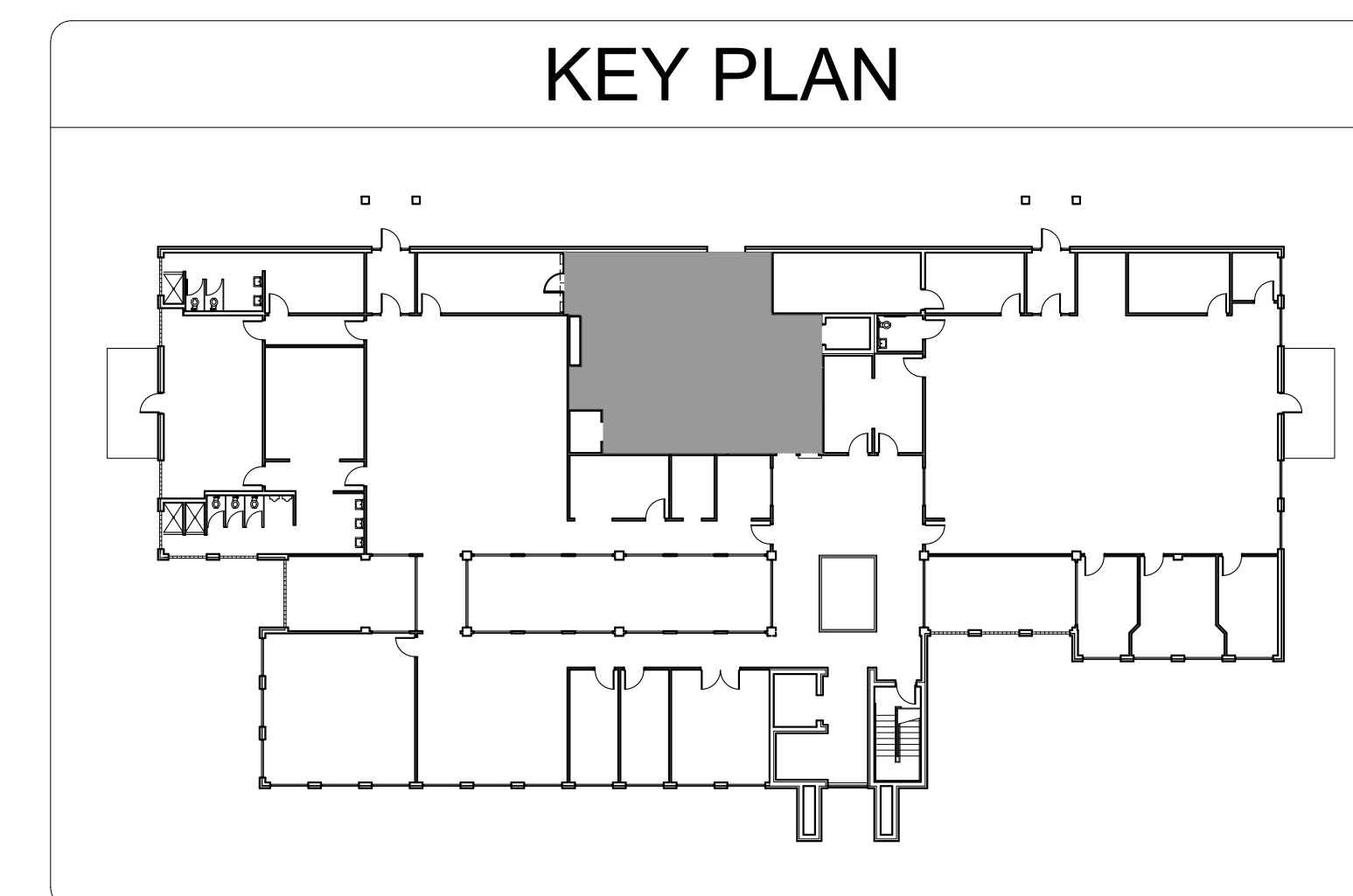
-  - EXISTING CONSTRUCTION TO REMAIN
-  - EXISTING CONSTRUCTION TO BE DEMOLISHED
-  - NEW METAL STUD WALL WITH SOUND ATTENUATING BATT INSULATION AND 1/2" GYPSUM BOARD. WALL TO EXTEND TO EXISTING CEILING
-  - NEW 6" METAL STUD WALL WITH SOUND ATTENUATING BATT INSULATION AND 1/2" GYPSUM BOARD. WALL TO EXTEND TO EXISTING CEILING
-  - EXISTING WALL WITH ADDED BLOWN-IN INSULATION



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



**2 NEW PLAN**  
SCALE: 3/16" = 1'-0"



FOR CONSTRUCTION

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A NEW BUILDING FOR:  
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WHITFIELD COUNTY  
DALTON, GA 30720



SHEET INDEX  
EXISTING FACILITY  
DEMO AND NEW  
PLANS

SHEET INDEX

**A1.8**

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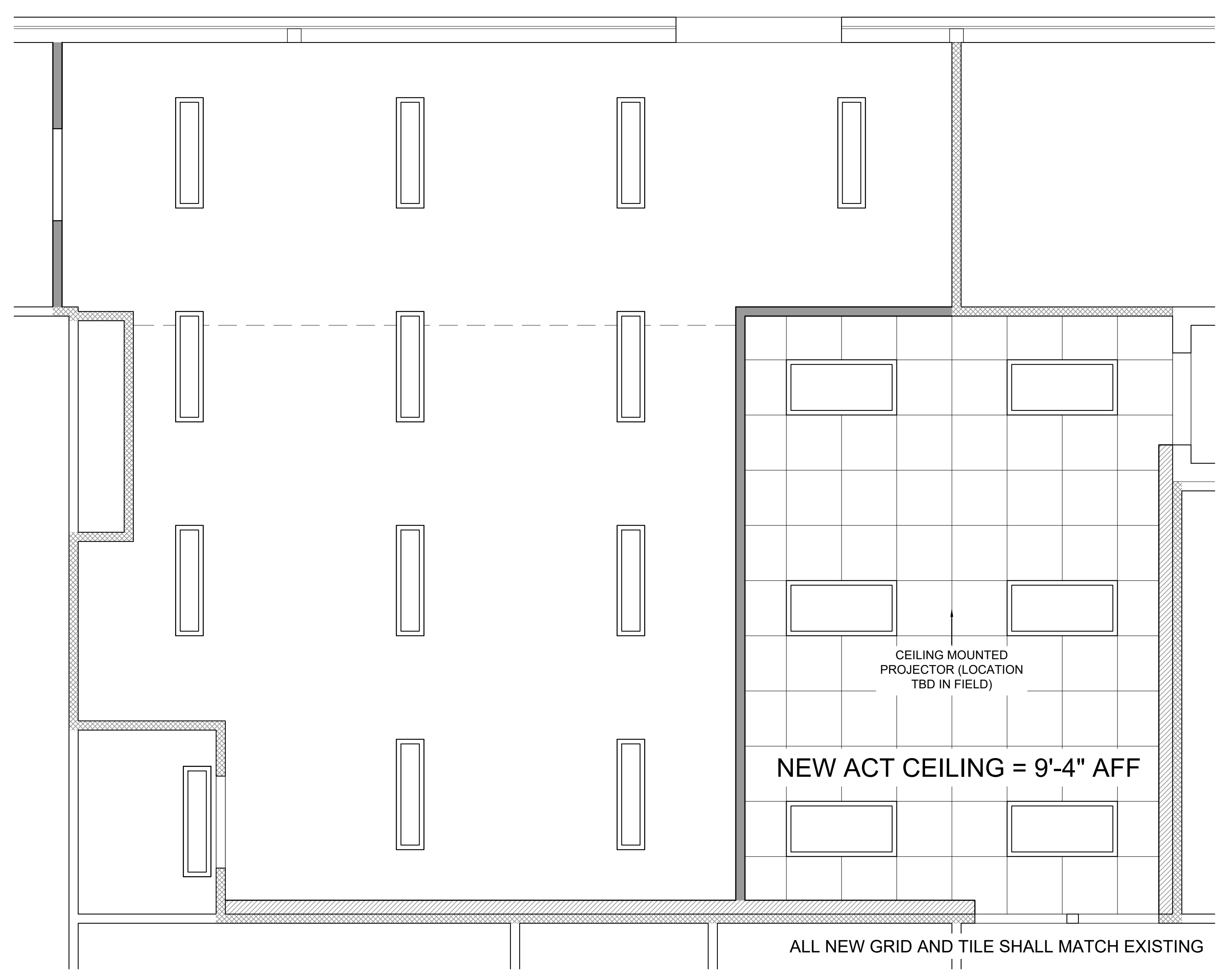
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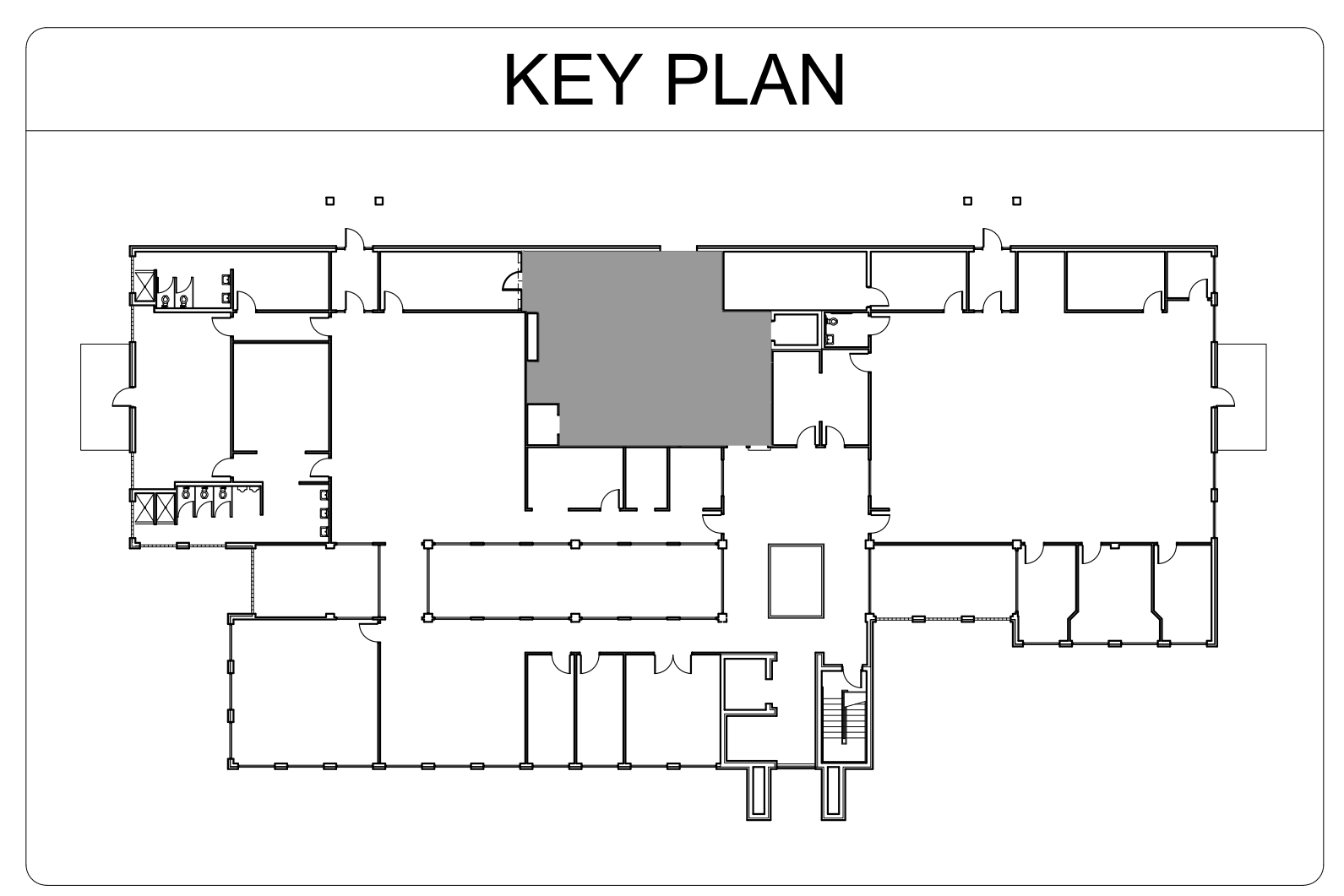
SHEET INDEX	
EXISTING FACILITY	
NEW REFLECTED CEILING PLAN	

**PLAN LEGEND**

- 8" CMU BLOCK EXTEND TO 1'-0" ABOVE CEILING, UNLESS NOTED OTHERWISE.
- ACOUSTIC CEILING TILE SYSTEM
- NEW METAL STUD WALL WITH SOUND ATTENUATING BATT INSULATION AND 5/8" GYPSUM BOARD. WALL TO EXTEND TO EXISTING CEILING
- NEW 6" METAL STUD WALL WITH SOUND ATTENUATING BATT INSULATION AND 5/8" GYPSUM BOARD. WALL TO EXTEND TO EXISTING CEILING
- EXISTING WALL WITH ADDED BLOWN-IN INSULATION



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



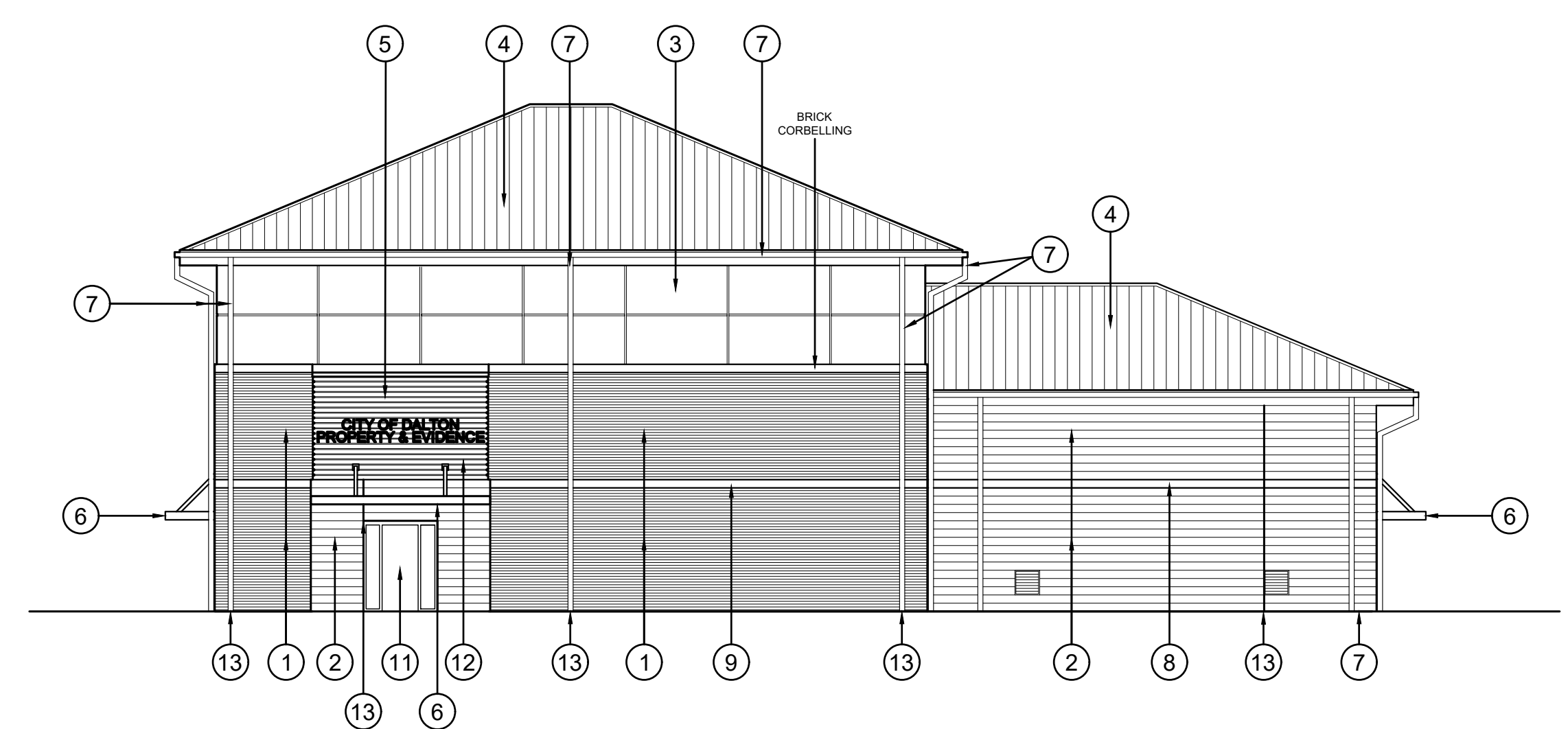
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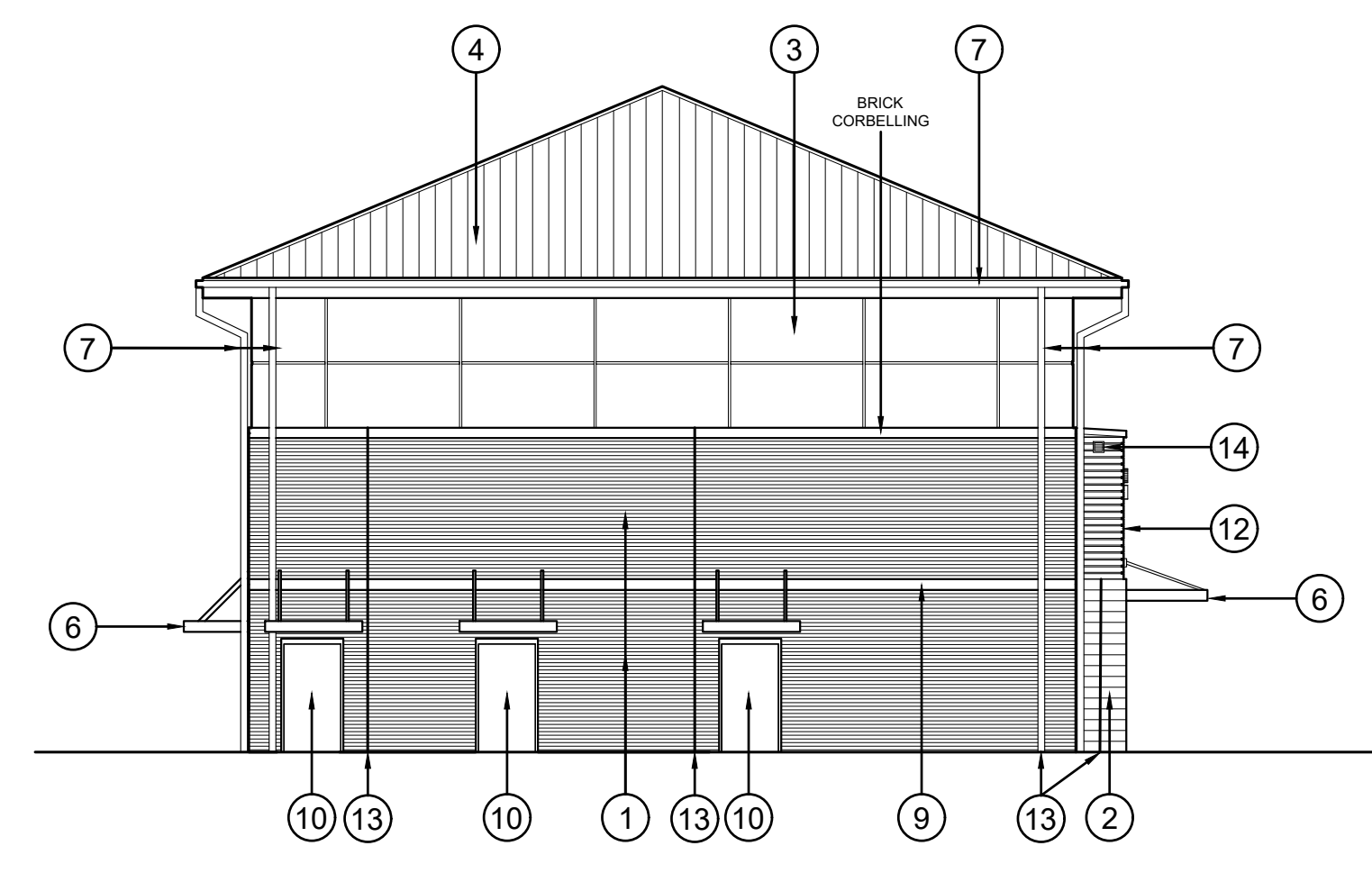


**LEGEND**

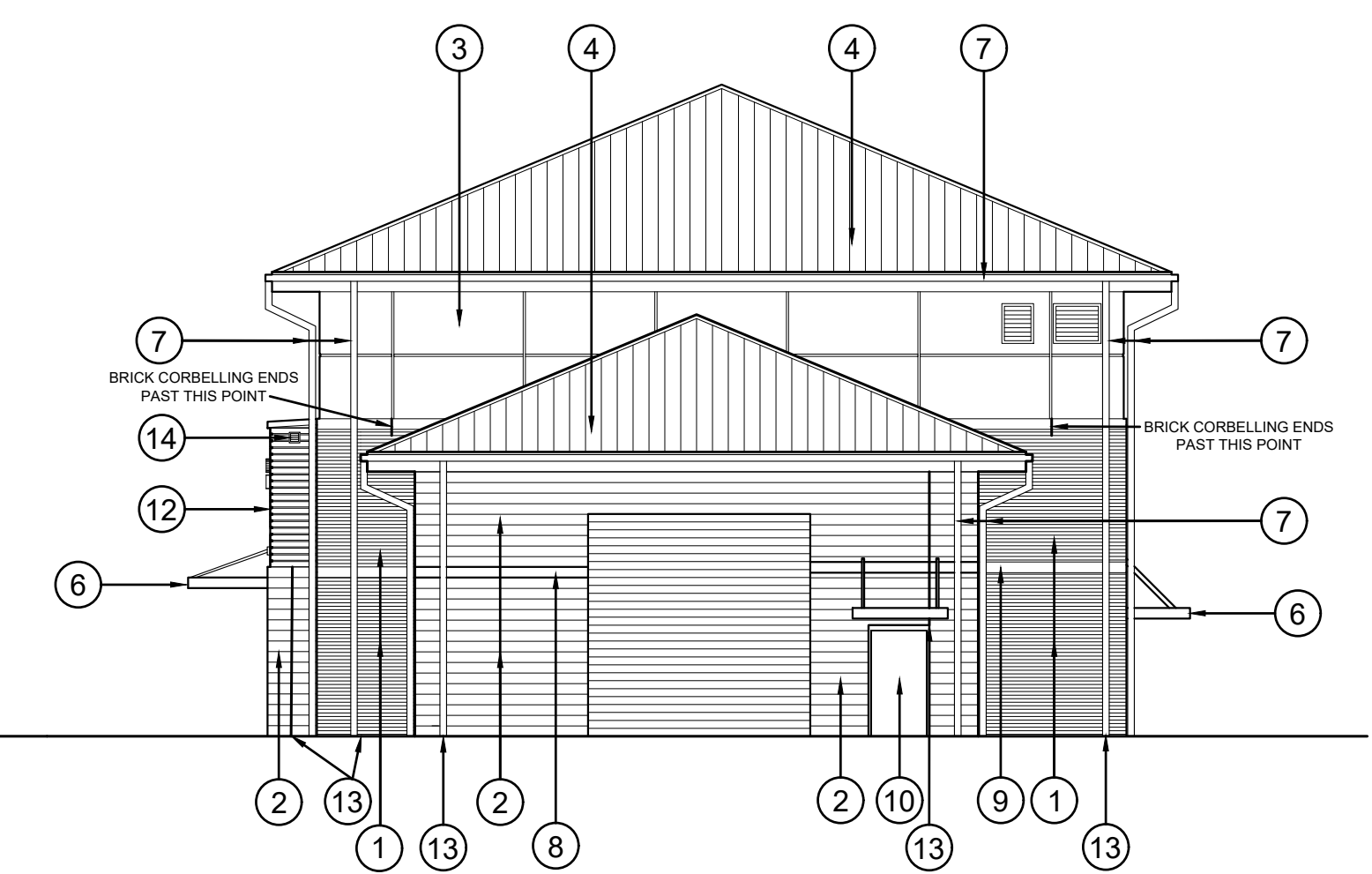
- ① MODULAR BRICK VENEER
- ② MANUFACTURED STONE VENEER
- ③ PREFINISHED COMPOSITE METAL PANEL
- ④ PREFINISHED STANDING SEAM ROOFING SYSTEM
- ⑤ CAST ALUMINUM LETTERING SEE A/A8.1
- ⑥ PREFINISHED ALUMINUM HANGING CANOPY
- ⑦ PREFINISHED GUTTER + DOWNSPOUT
- ⑧ MODULAR BRICK BAND, 8" IN HEIGHT
- ⑨ MANUFACTURED STONE, 8" IN HEIGHT
- ⑩ PAINTED HOLLOW METAL DOOR
- ⑪ ALUMINUM STOREFRONT SYSTEM
- ⑫ PAC-CLAD HIGHLINE C1 24 GAUGE WITH CLIP
- ⑬ CONTROL JOINT
- ⑭ BRICK VENT TO STUD



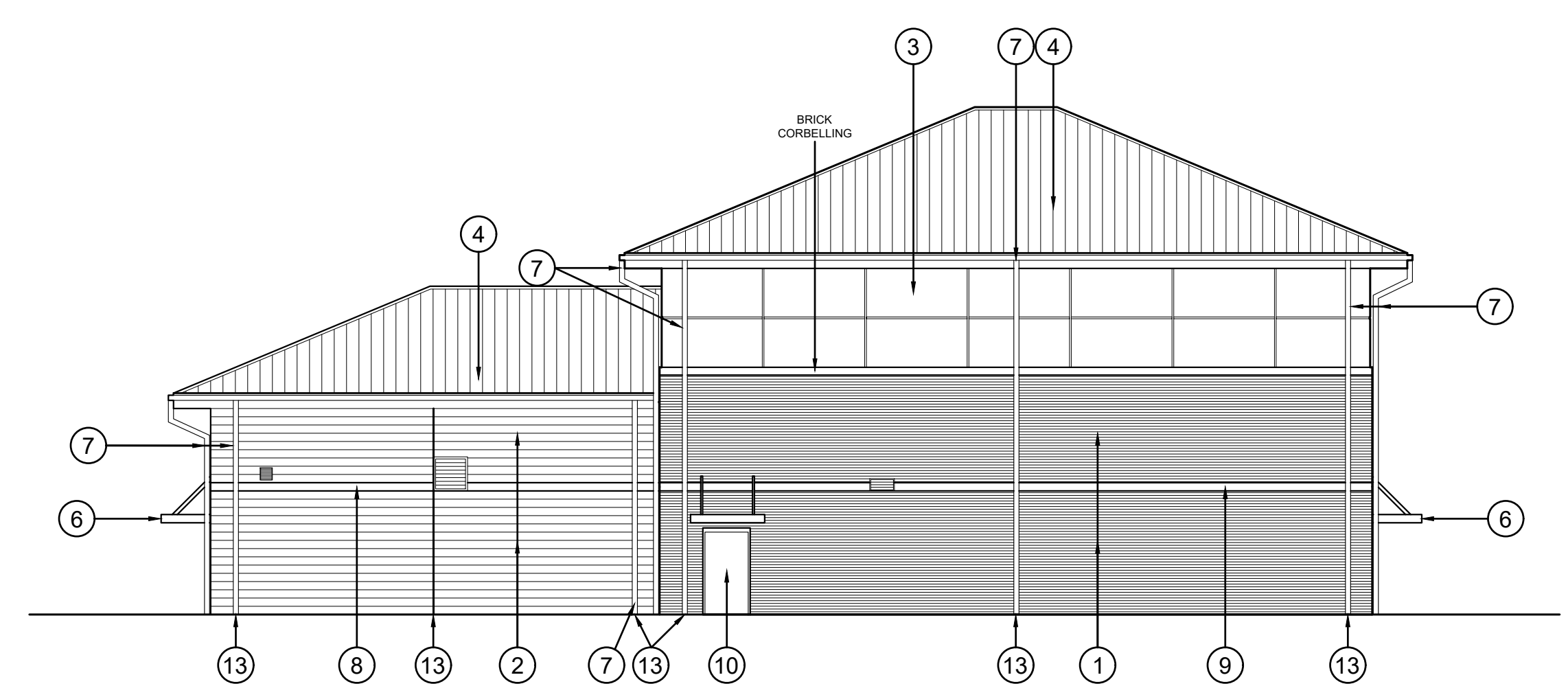
**1 FRONT ELEVATION**  
SCALE: 3/32" = 1'-0"



**2 SOUTH ELEVATION**  
SCALE: 3/32" = 1'-0"



**3 NORTH ELEVATION**  
SCALE: 3/32" = 1'-0"



**4 WEST ELEVATION**  
SCALE: 3/32" = 1'-0"

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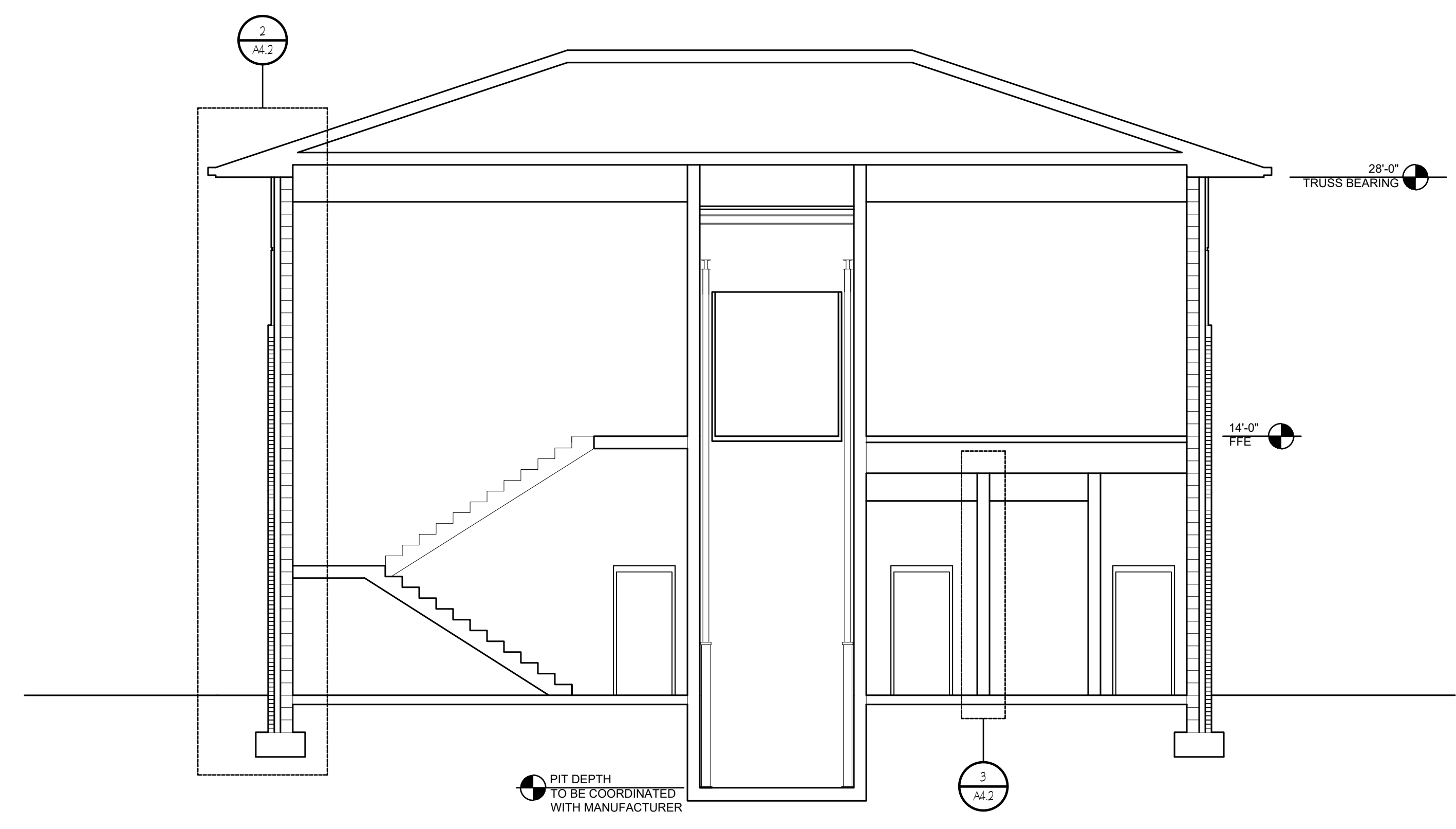
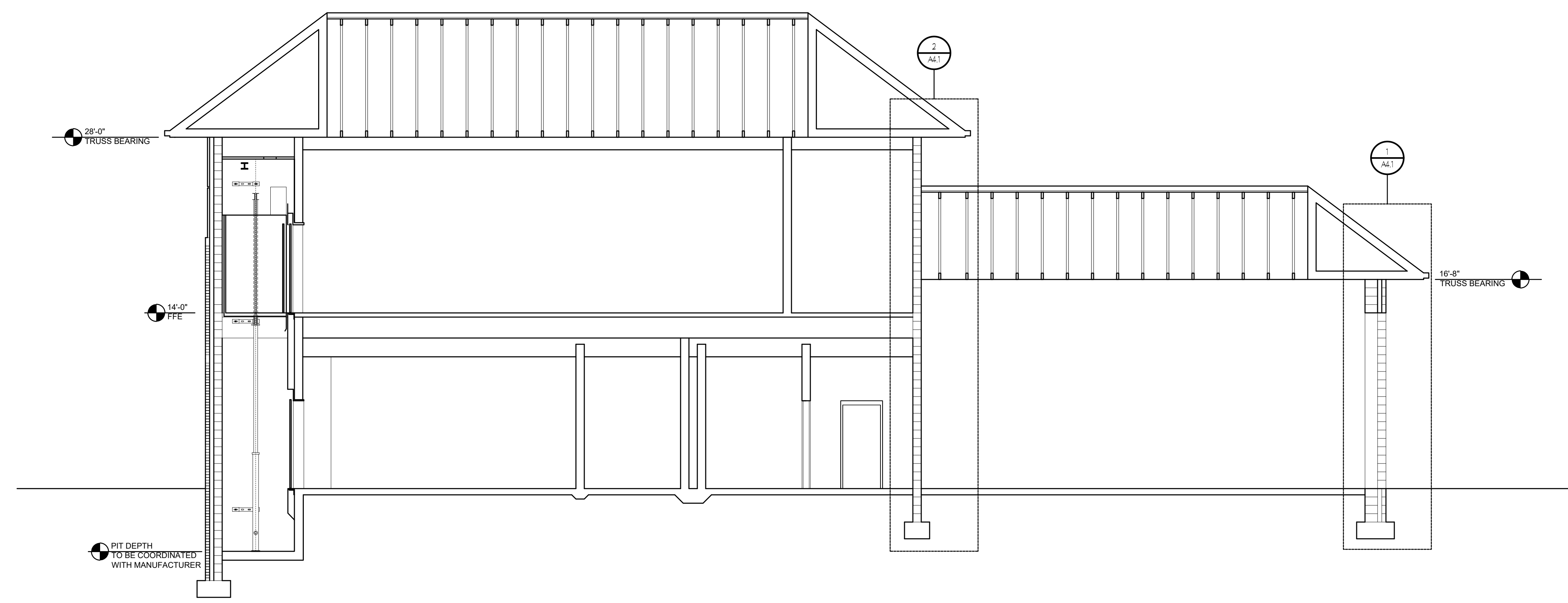
A NEW BUILDING FOR:  
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WHITFIELD COUNTY  
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SHEET INDEX  
CROSS SECTIONS

SHEET INDEX

A3.1

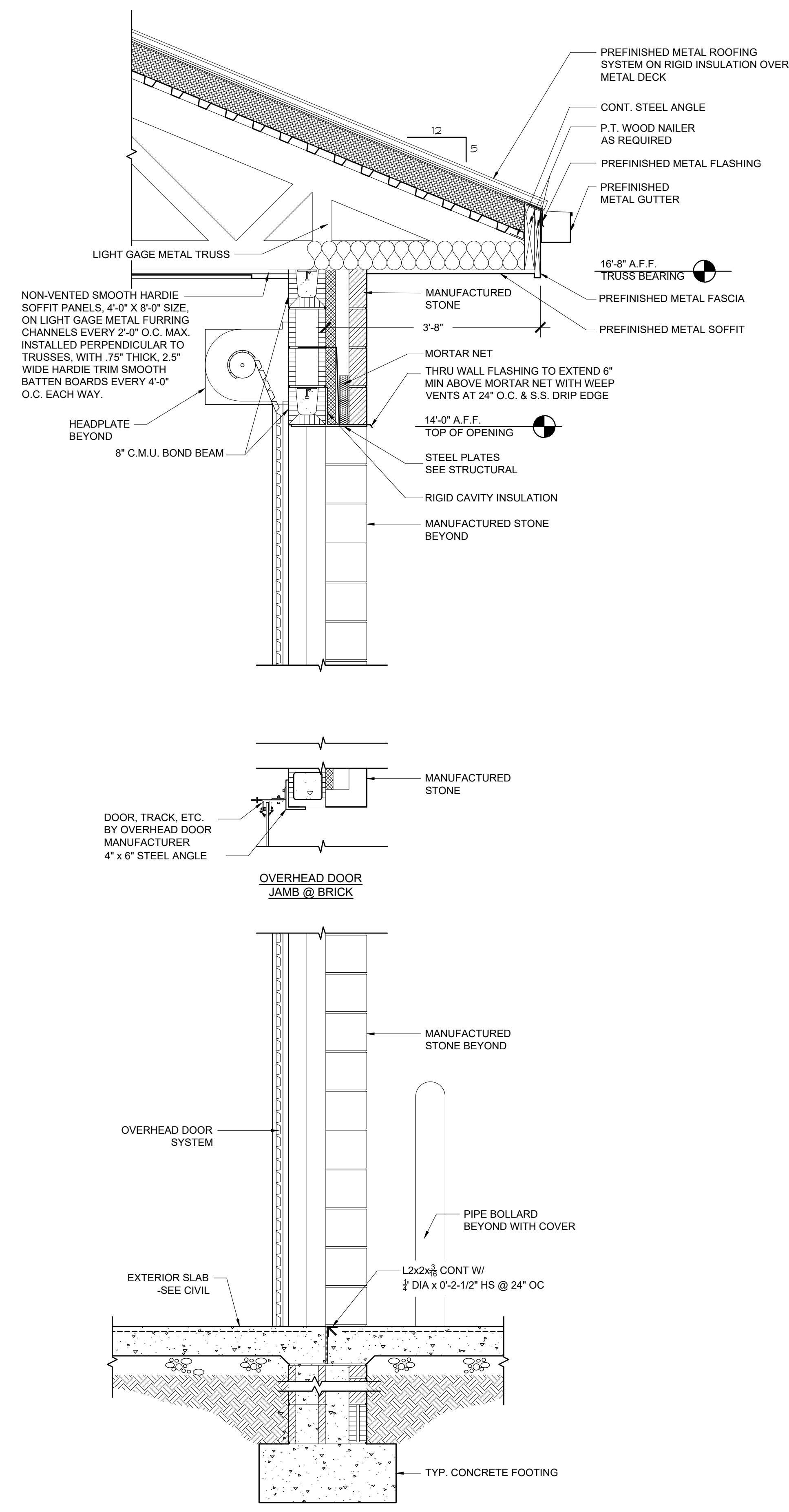


**1 BUILDING SECTIONS**  
SCALE: 3/16" = 1'-0"

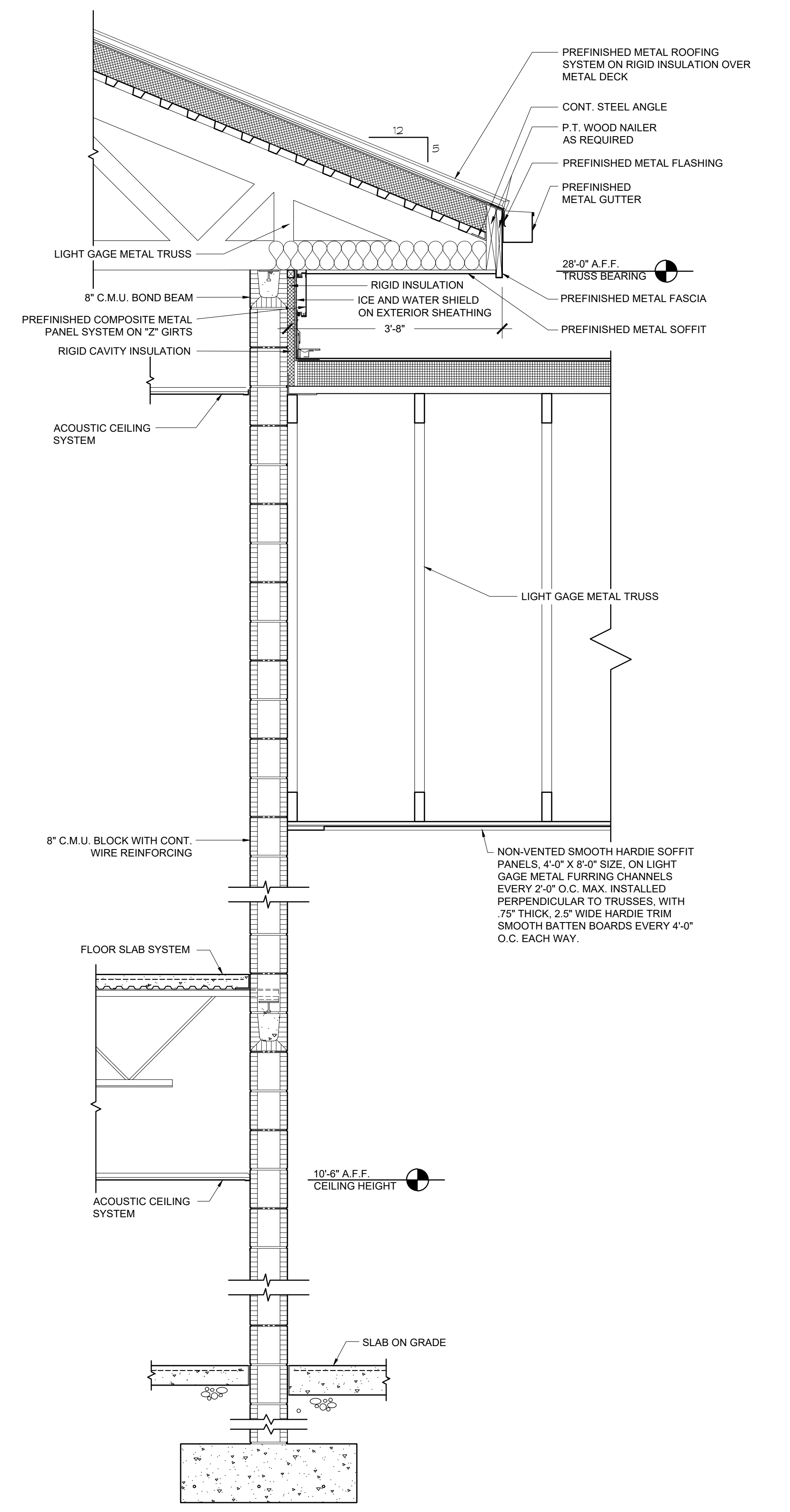
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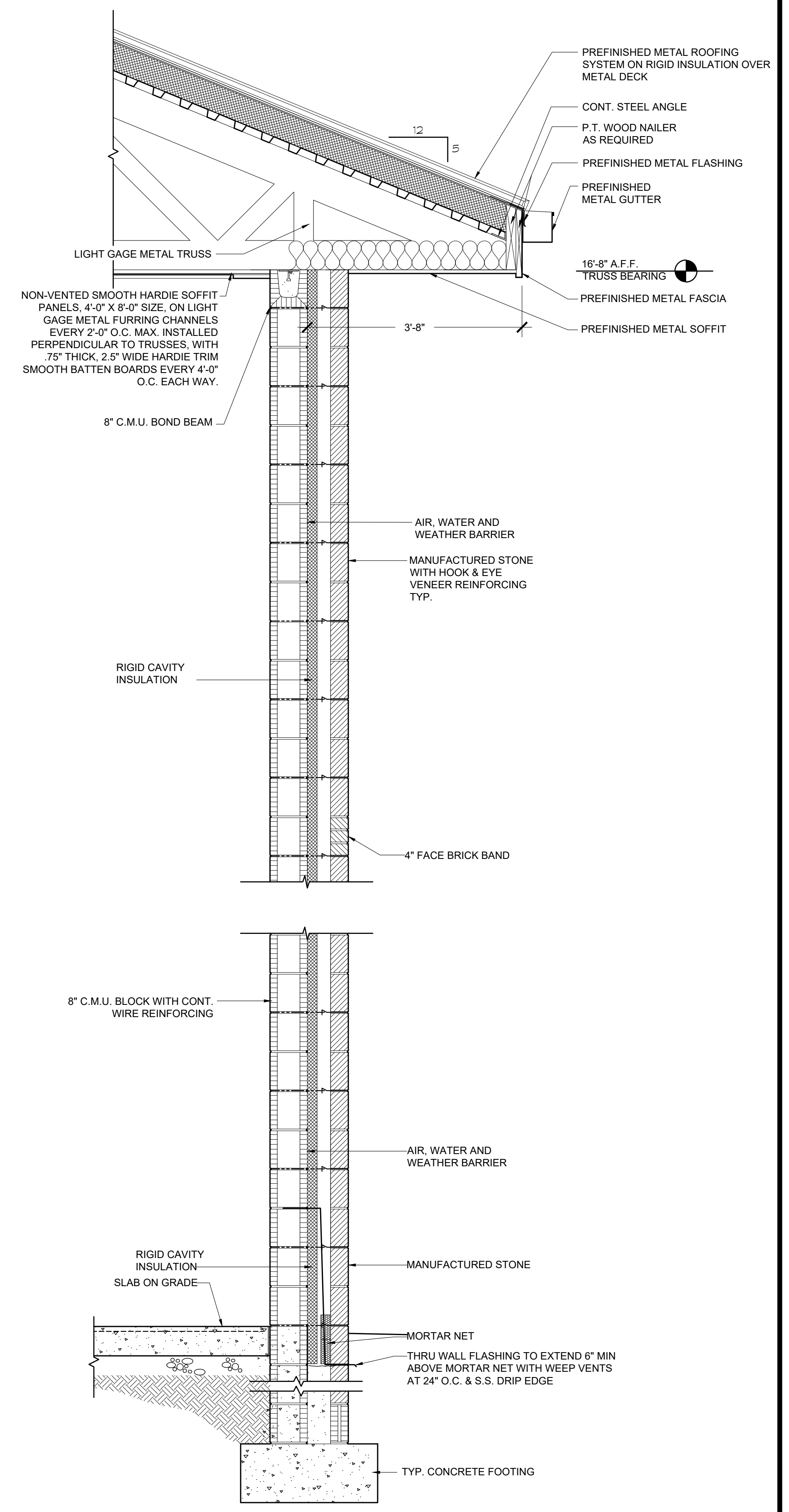
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**1 WALL SECTION**  
SCALE: 3/4" = 1'-0"



**2 WALL SECTION**  
SCALE: 3/4" = 1'-0"



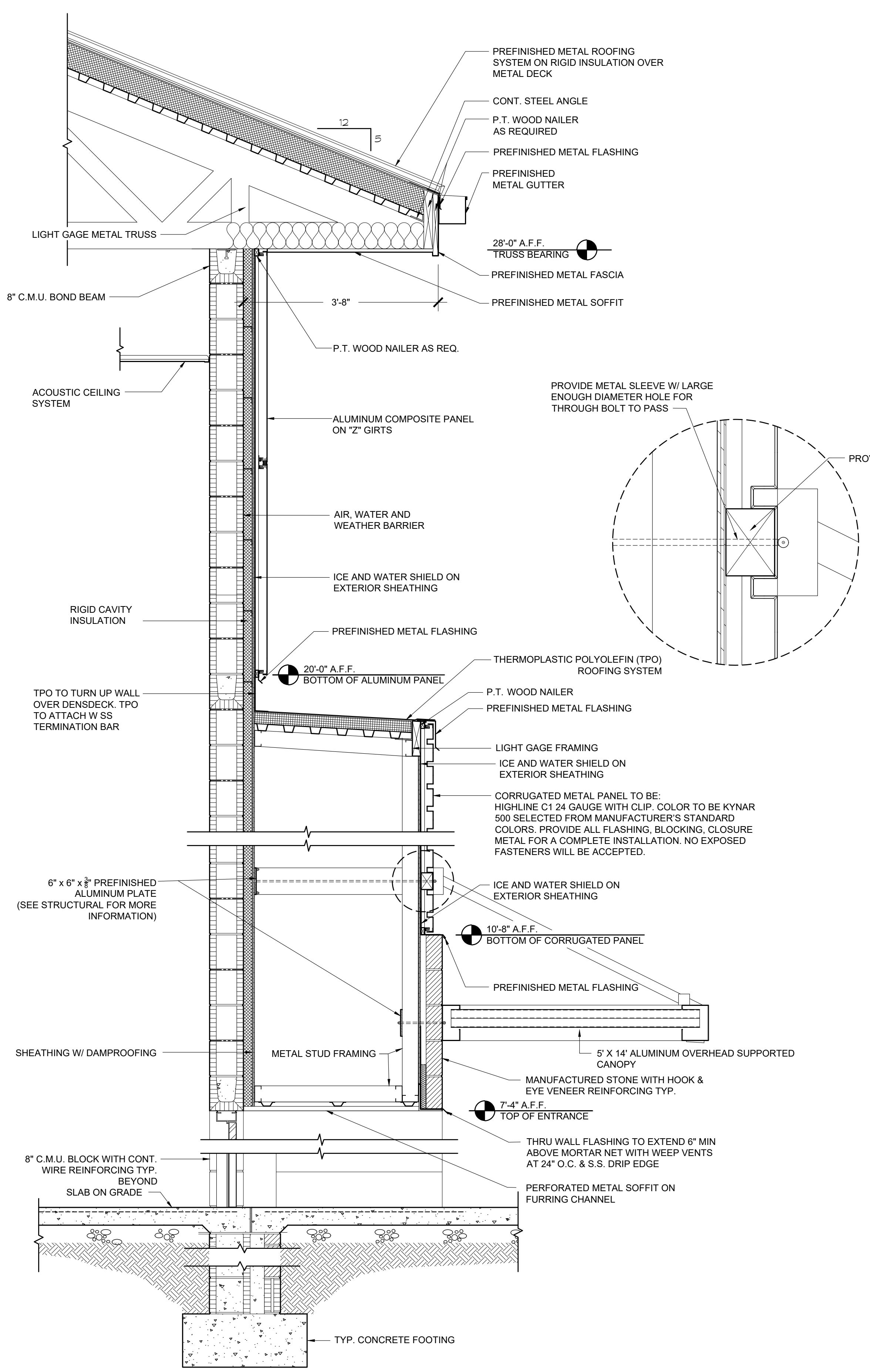
**3 WALL SECTION**  
SCALE: 3/4" = 1'-0"

FOR CONSTRUCTION

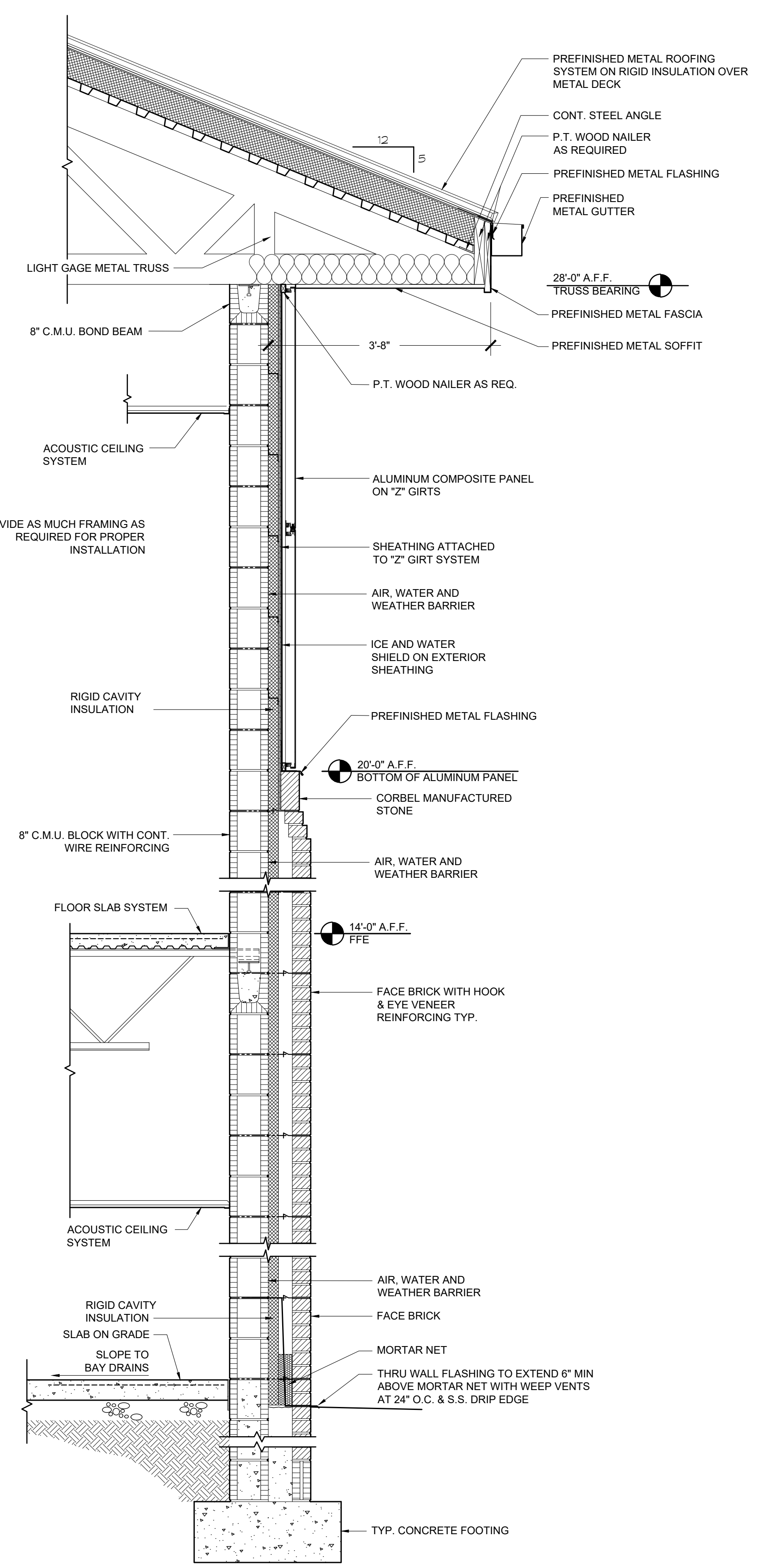
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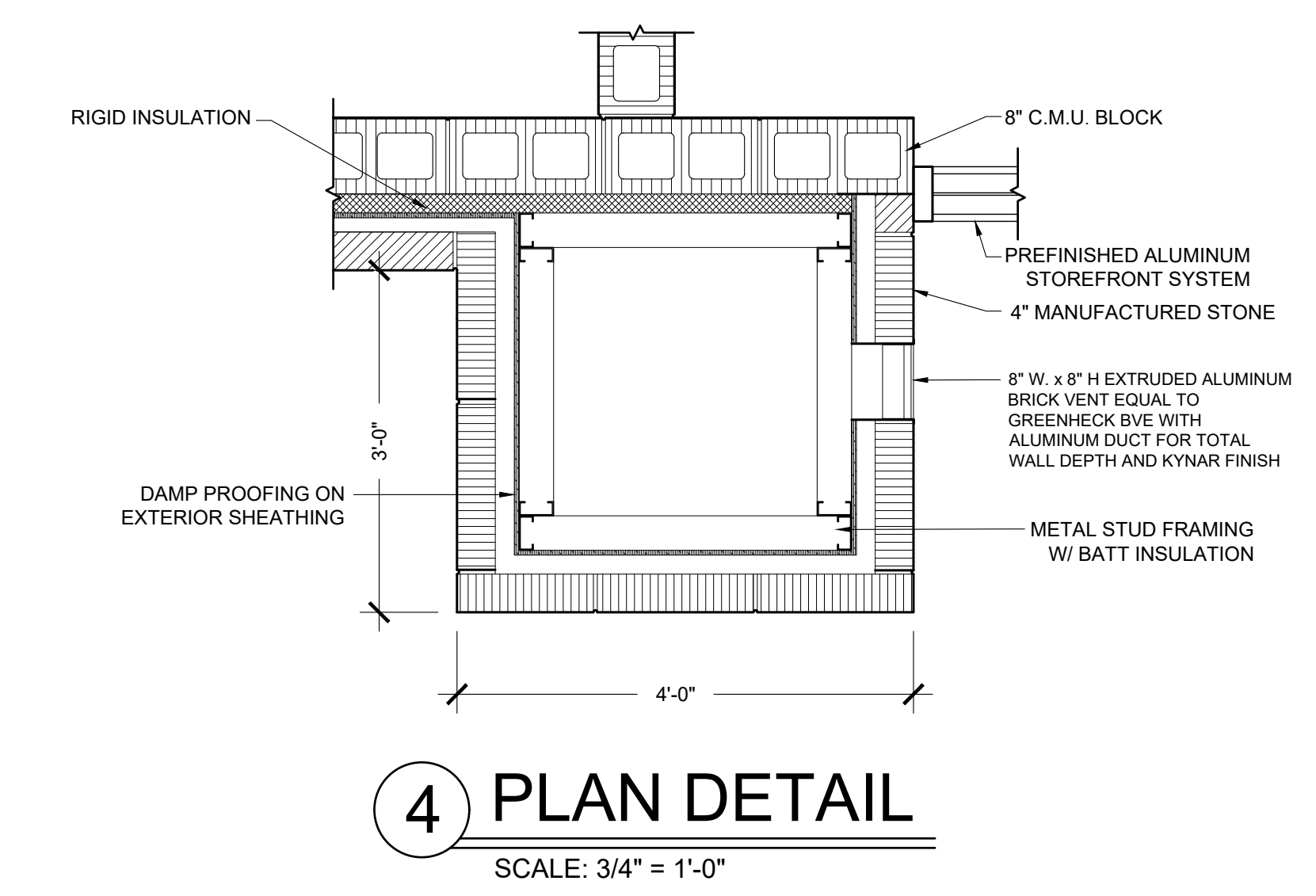
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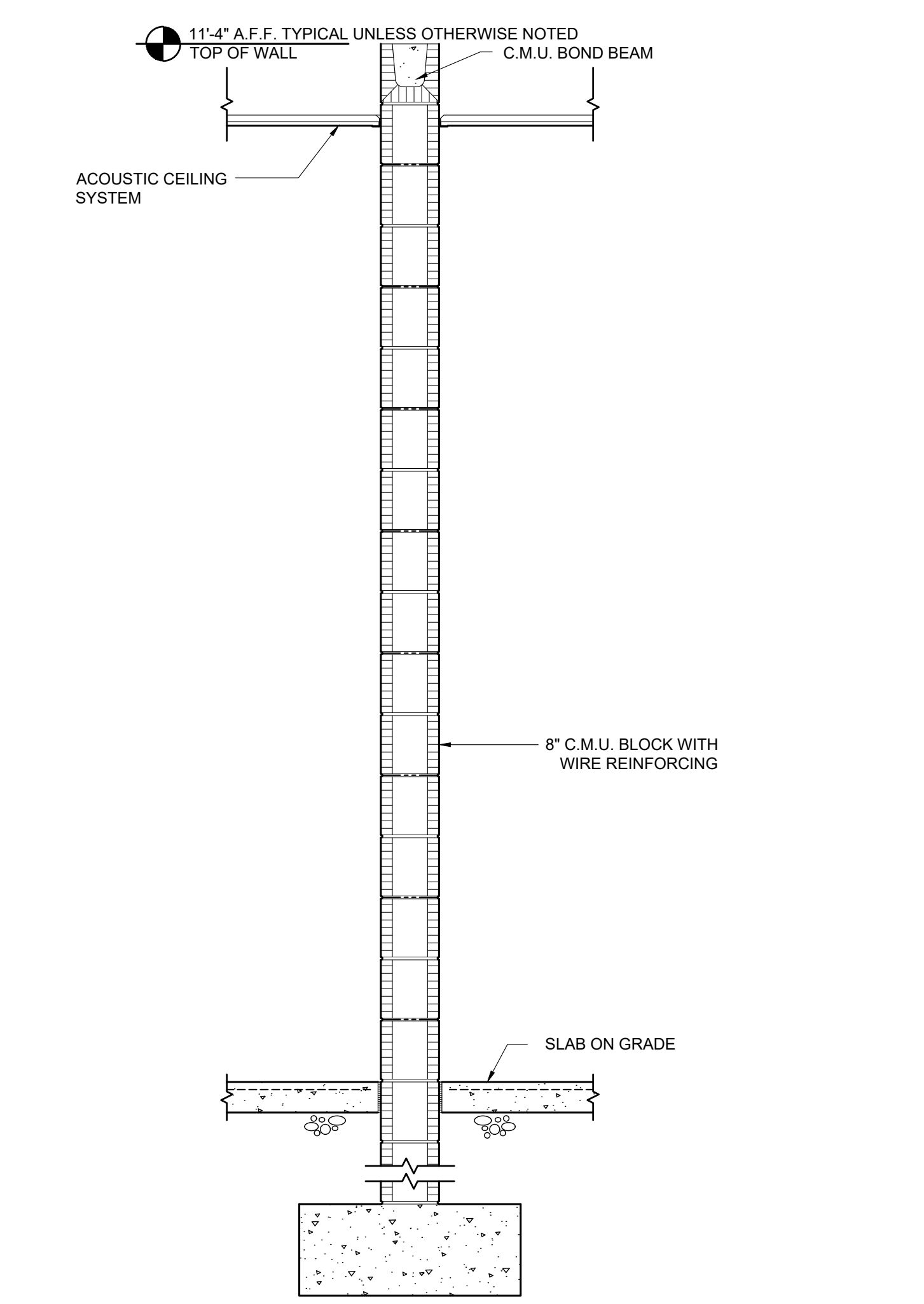
**1 WALL SECTION**  
SCALE: 3/4" = 1'-0"



**2 WALL SECTION**  
SCALE: 3/4" = 1'-0"



**4 PLAN DETAIL**  
SCALE: 3/4" = 1'-0"



**3 WALL SECTION**  
SCALE: 3/4" = 1'-0"

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SCHEDULE OF FINISHES							
ROOM	NO.	FLOOR	BASE	WALLS	CEILING	CEILING HEIGHT	REMARKS
FIRE RISER ROOM	101	SC	RB	CMU	-	-	
P&E OFFICE STORAGE	102	LVT	RB	CMU	ACT	10'-6"	
ELECTRICAL ROOM	103	SC	RB	CMU	ACT	10'-6"	
STAIR CASE	104	LVT	RB	CMU	ACT	10'-6"	NOTE1
VESTIBULE	105	LVT	RB	CMU	ACT	10'-6"	
CRIME LAB	106	LVT	RB	CMU	ACT	10'-6"	
PHOTO ROOM	107	LVT	RB	CMU	ACT	10'-6"	
RESTROOM	108	EF	EF	CMU	ACT	10'-6"	NOTE3
RESTROOM	109	EF	EF	CMU	ACT	10'-6"	NOTE3
WORK SPACE	110	LVT	RB	CMU	ACT	10'-6"	
STORAGE/GEAR ISSUE	111	LVT	RB	CMU	ACT	10'-6"	
MECHANICAL/DATA	113	SC	RB	CMU	ACT	10'-6"	
EVIDENCE DROP-OFF	114	LVT	RB	CMU	ACT	10'-6"	
VESTIBULE	115	LVT	RB	CMU	ACT	10'-6"	
VEHICLE BAY	116	EF	EF	CMU	SSB	16'-8"	
EVIDENCE ROOM	112	LVT	RB	CMU	ACT	10'-6"	
EVIDENCE STORAGE	201	LVT	RB	CMU	ACT	13'-0"	
MECHANICAL ROOM	202	SC	RB	CMU	ACT	-	
DRUG STORAGE	203	LVT	RB	CMU	ACT	13'-0"	
FIREARM STORAGE	204	LVT	RB	CMU	ACT	13'-0"	
ELEVATOR	-	LVT	-	-	-	-	NOTE2
WORKOUT ROOM	220A	RF	RB	GB	-	-	
SIMULATION ROOM	220B	LVT	RB	GB	ACT	9'-4"	

**FINISH SCHEDULE LEGEND:**

SC - SEALED CONCRETE  
EF - EPOXY FLOORING  
LVT - LUXURY VINYL TILE  
RB - RUBBER BASE

ACT - ACOUSTIC CEILING TILE SYSTEM  
SSB - SMOOTH SOFFIT BOARD  
CMU - CONCRETE MASONRY UNITS (PAINTED)  
RF - RESILIENT ATHLETIC FLOORING

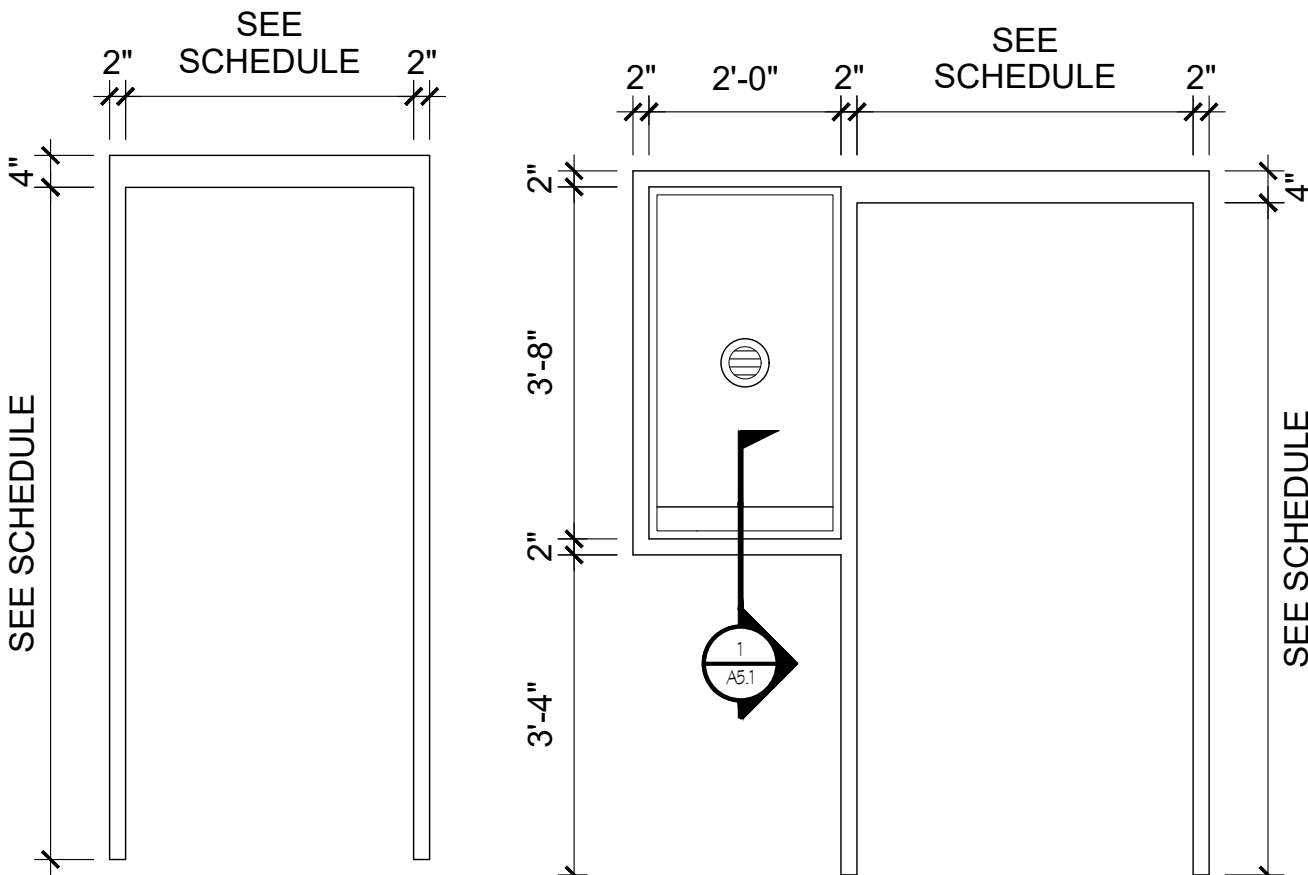
GB - GYPSUM WALL BOARD

NOTE 1: LVT ON LANDINGS, RUBBER ON STAIR RISERS AND TREADS  
NOTE 2: SEE SPECIFICATIONS FOR FURTHER INFORMATION  
NOTE 3: EXTEND EPOXY FLOORING 6" UP WALL

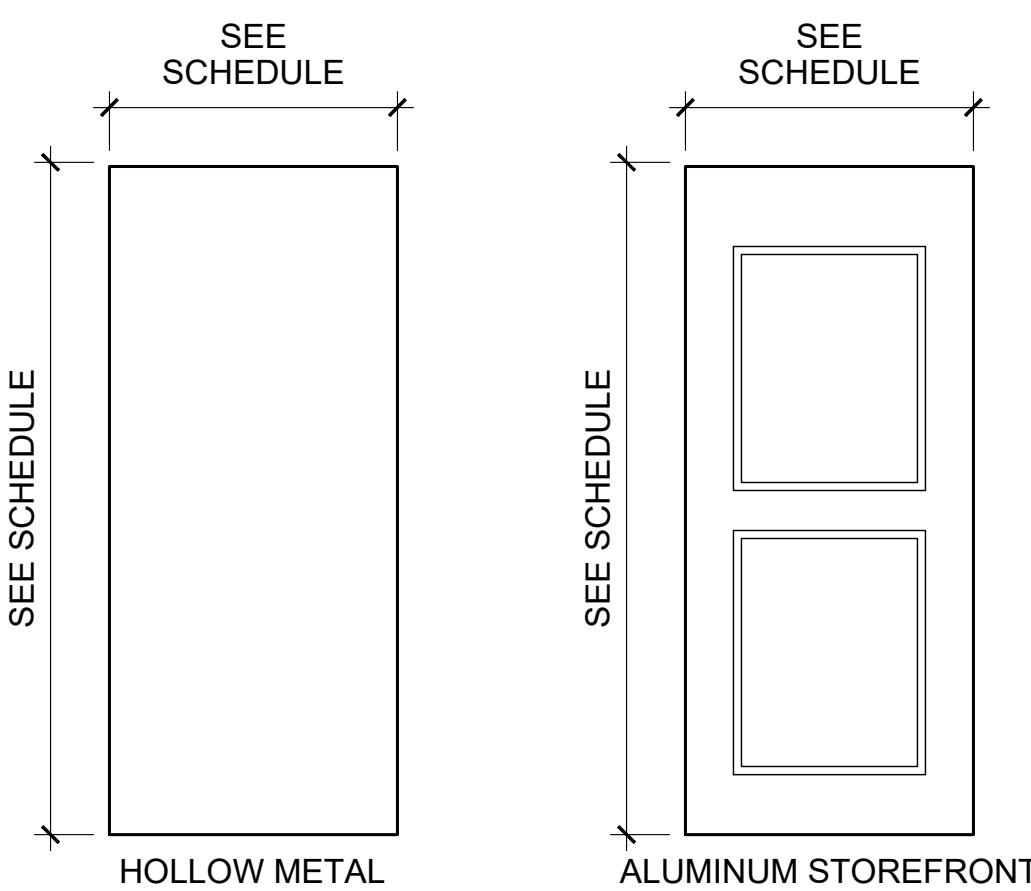
SCHEDULE OF DOORS AND FRAMES										
MARK	TYPE	SIZE		TYPE	DETAILS		HWDE. SET No.	REMARKS	MARK	
		WIDTH	HGT.		HEAD	JAMB				
101	1	3'-0"	7'-0"	F1	H2	J2	-	NOTE 1	101	
102	1	3'-0"	7'-0"	F1	H1	J1	-	-	102	
103	1	3'-0"	7'-0"	F1	H2	J2	-	NOTE 1	103	
104	1	3'-0"	7'-0"	F1	H1	J1	1 HR.	NOTE 1	104	
105	1	3'-0"	7'-0"	F1	H2	J2	-	NOTE 1	105	
106	2	3'-0"	7'-0"	F3	H2	J2	-	NOTE 1	106	
107	1	3'-0"	7'-0"	F1	H1	J1	-	-	107	
108	1	3'-0"	7'-0"	F1	H1	J1	-	NOTE 1	108	
109	1	3'-6"	7'-0"	F2	H1	J1	-	NOTE 1,3	109	
110	1	3'-0"	7'-0"	F1	H1	J1	-	NOTE 1	110	
111	1	3'-0"	7'-0"	F1	H1	J1	-	NOTE 1	111	
112	1	3'-0"	7'-0"	F1	H1	J1	-	NOTE 1	112	
113	1	3'-0"	7'-0"	F1	H1	J1	-	NOTE 1	113	
114	1	3'-0"	7'-0"	F1	H2	J2	-	NOTE 1	114	
115	1	3'-6"	7'-0"	F1	H1	J1	2 HR.	NOTE 1	115	
116	1	3'-0"	7'-0"	F1	H2	J2	-	NOTE 1	116	
117	3	14'-0"	14'-0"	-	1/A4.1	1/A4.1	-	-	117	
201	1	3'-0"	7'-0"	F1	H1	J1	1 HR.	NOTE 1	201	
202	1	3'-0"	7'-0"	F1	H1	J1	-	NOTE 1	202	
203	1	3'-0"	7'-0"	F1	H1	J1	-	NOTE 1	203	
204	1	3'-0"	7'-0"	F1	H1	J1	-	NOTE 1	204	
205	1	3'-6"	7'-0"	F1	H1	J1	2 HR.	NOTE 1&2	205	
206	1	3'-6"	7'-0"	F1	H3	J3	-	-	206	

**DOOR SCHEDULE NOTES:**

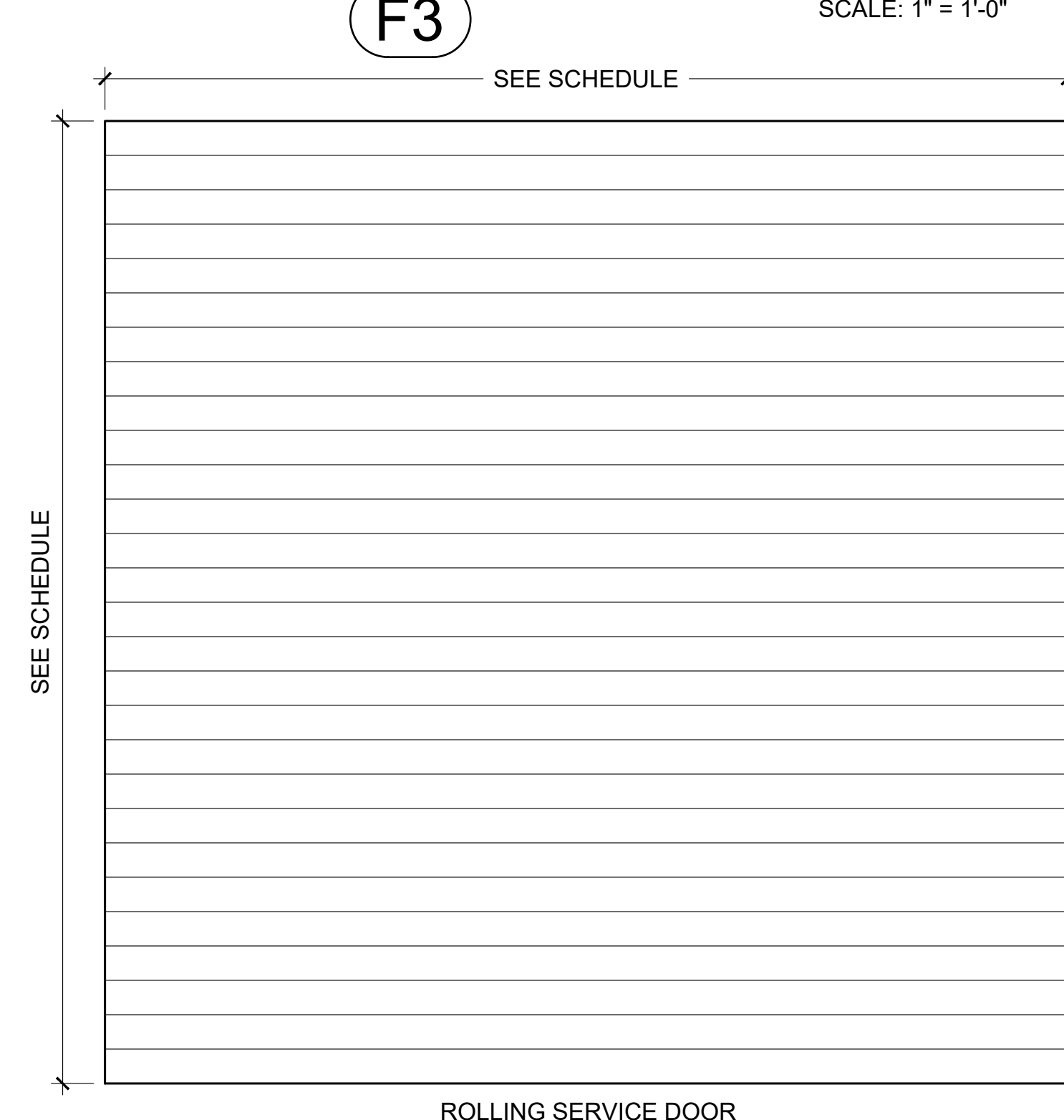
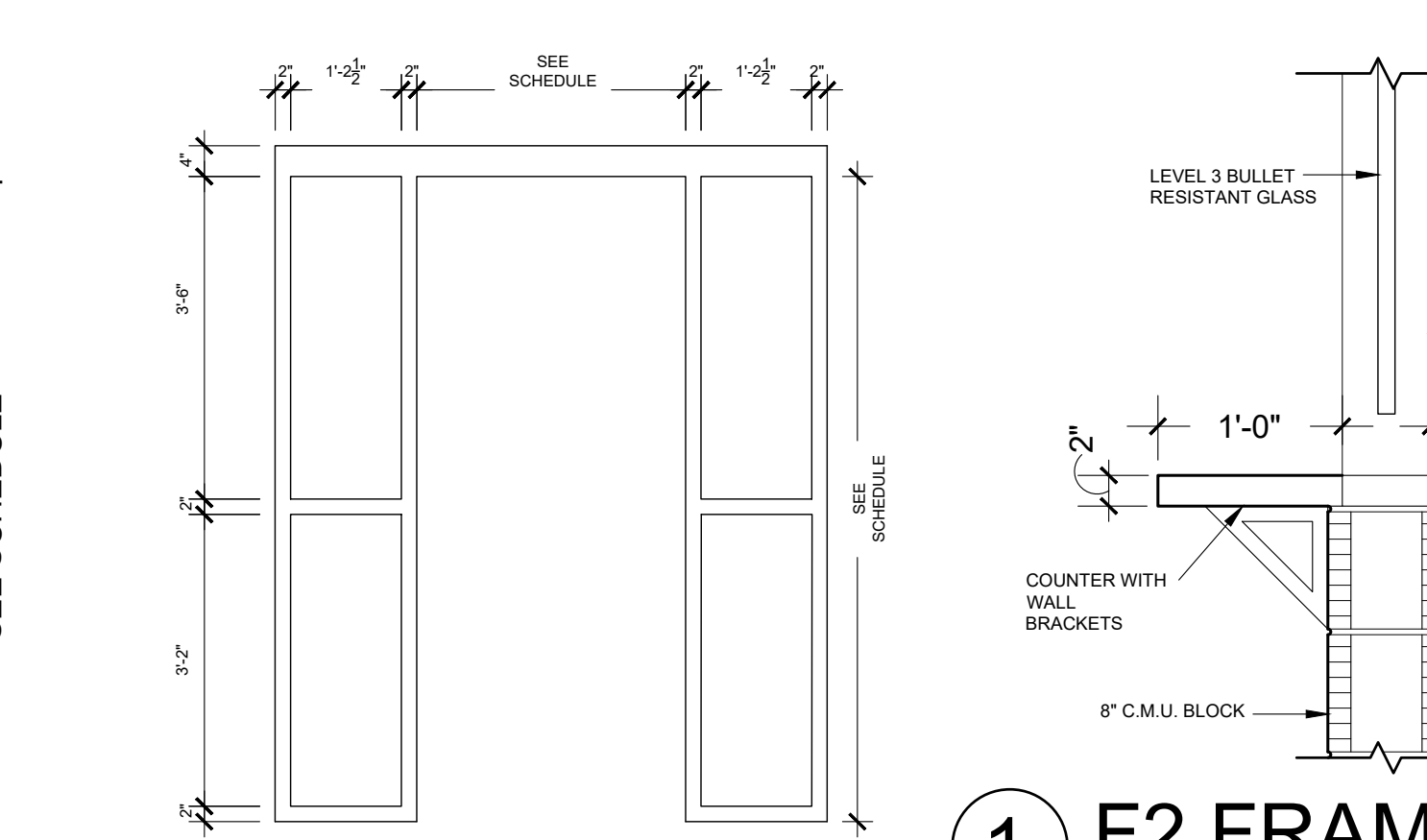
- PROVIDE OPENING WITH 3/4" CONDUIT W/ PULL STRINGS AND BUSHINGS TO EXTEND FROM STRIKE BOX LOCATION TO ABOVE CEILING FOR FUTURE CARD ACCESS.
- DOOR SHALL SWING 180°.
- PROVIDE COUNTER SHUDDER AT WINDOW



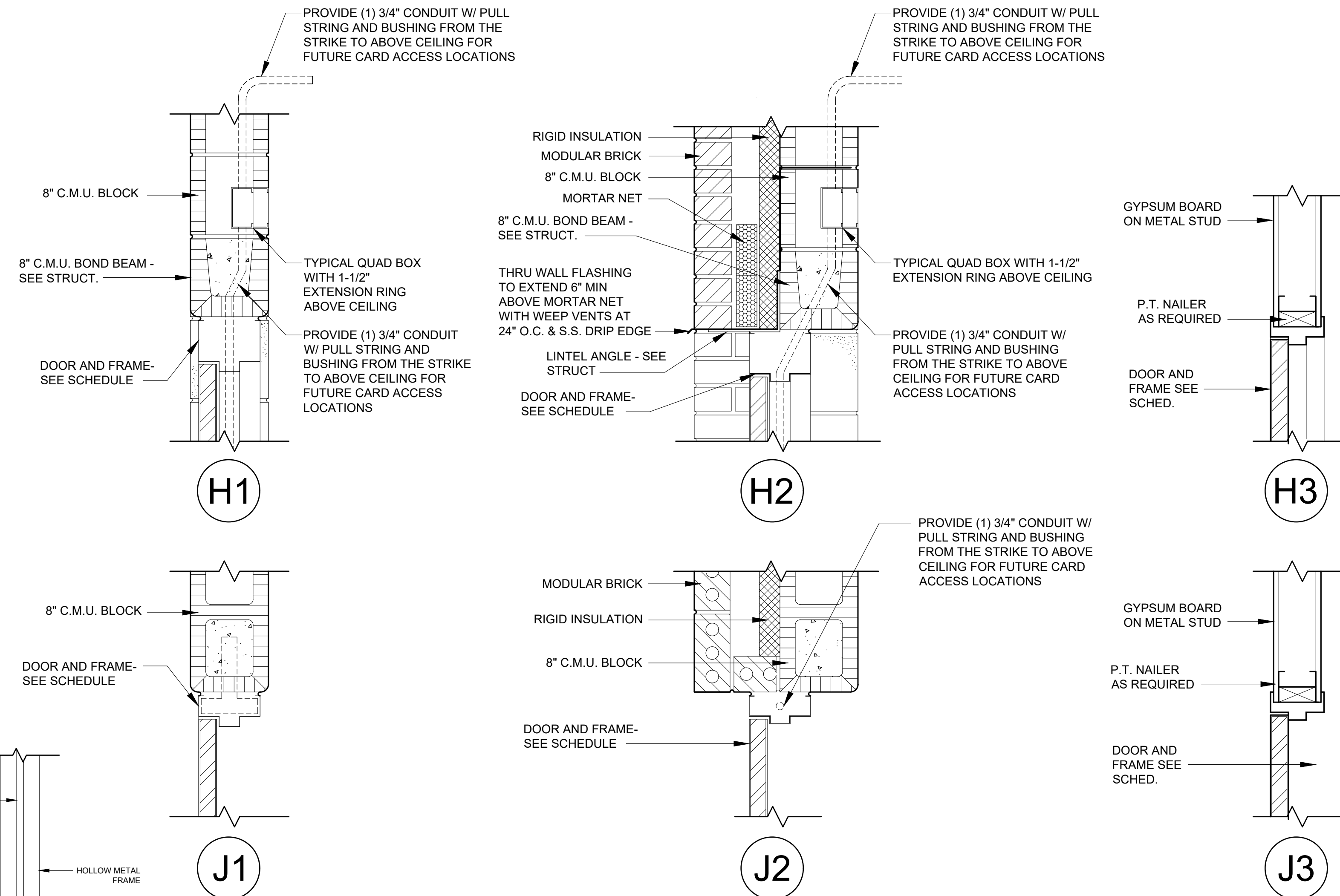
**F1 F2**  
HOLLOW METAL FRAME  
HOLLOW METAL FRAME  
**DOOR FRAME ELEVATION**  
SCALE: 1/2" = 1'-0"



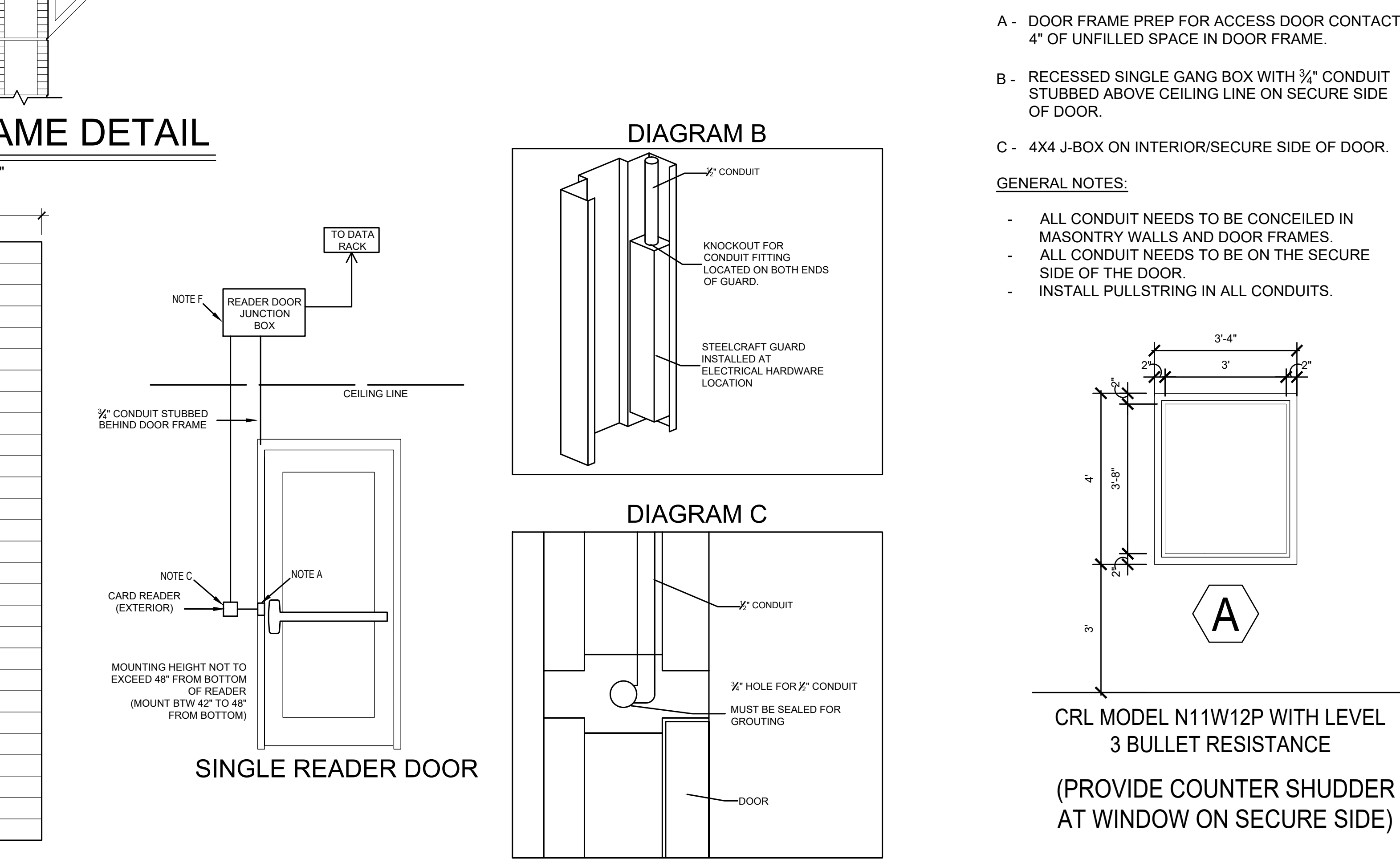
**1 2**  
HOLLOW METAL  
ALUMINUM STOREFRONT  
**DOOR TYPE ELEVATIONS**  
SCALE: 1/2" = 1'-0"



**3**  
ALUMINUM STOREFRONT  
SEE SCHEDULE  
ROLLING SERVICE DOOR  
**F2 F3 F1**  
SCALE: 1" = 1'-0"



**H1 H2 H3 J1 J2 J3**  
**HEAD AND JAMB DETAILS**  
SCALE: 1-1/2" = 1'-0"



**SINGLE READER DOOR**  
**DIAGRAM B**  
**DIAGRAM C**  
**A**  
**WINDOW FRAME ELEVATIONS**  
SCALE: 3/8" = 1'-0"

**DOOR ACCES NOTES:**

- DOOR FRAME PREP FOR ACCESS DOOR CONTACT 4" OF UNFILLED SPACE IN DOOR FRAME.
- RECESSED SINGLE GANG BOX WITH 3/4" CONDUIT STUBBED ABOVE CEILING LINE ON SECURE SIDE OF DOOR.
- 4X4 J-BOX ON INTERIOR/SECURE SIDE OF DOOR.

**GENERAL NOTES:**

- ALL CONDUIT NEEDS TO BE CONCEALED IN MASONRY WALLS AND DOOR FRAMES.
- ALL CONDUIT NEEDS TO BE ON THE SECURE SIDE OF THE DOOR.
- INSTALL PULLSTRING IN ALL CONDUITS.

PROJECT NUMBER  
**23-021**

DATE  
**12/01/23**

REVISIONS

NO.	DATE
0000	00/00/00

FACILITY CODE  
**000-0000**

**KRH ARCHITECTS INCORPORATED**

855 ABUTMENT ROAD  
SUITE FOUR  
DALTON, GA 30721  
TEL. 706.529.5895

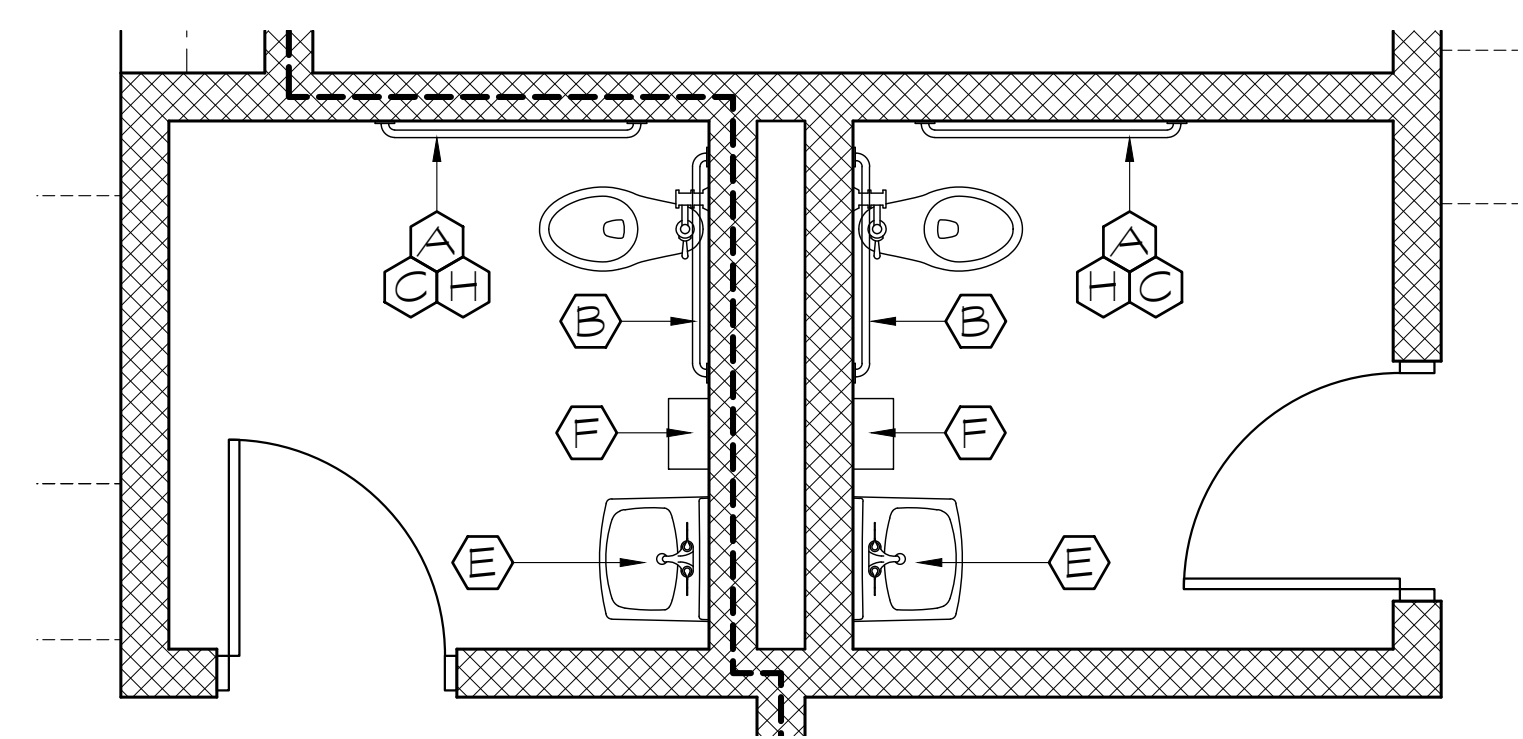
A NEW BUILDING FOR:  
**DALTON POLICE DEPARTMENT**  
WHITFIELD COUNTY  
DALTON, GA 30720

STATE OF GEORGIA  
REGISTERED ARCHITECT  
KENNETH R. HARRISS  
REGISTERED NO. 21404

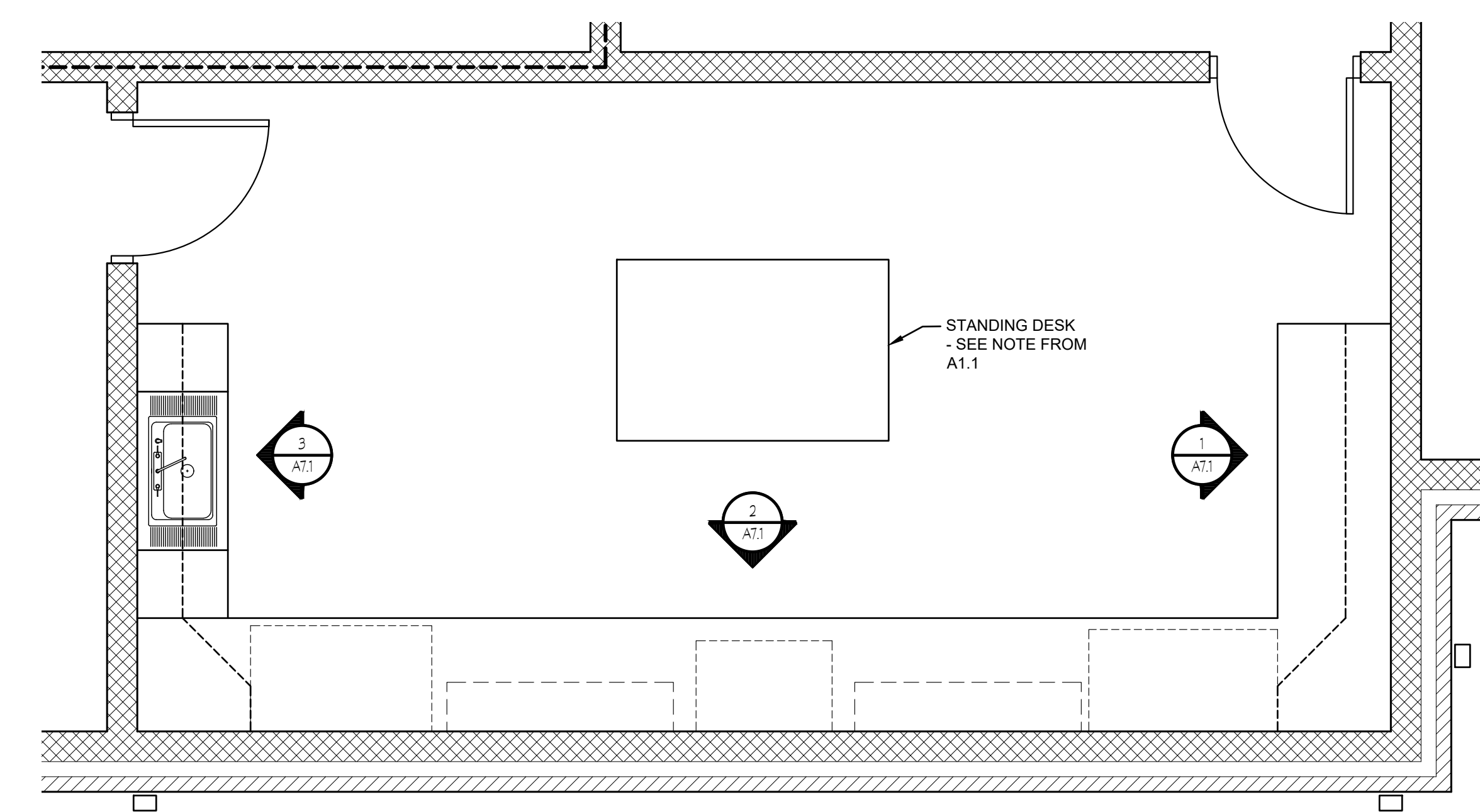
SHEET INDEX  
FINISH AND DOOR SCHEDULES

SHEET INDEX  
**A5.1**

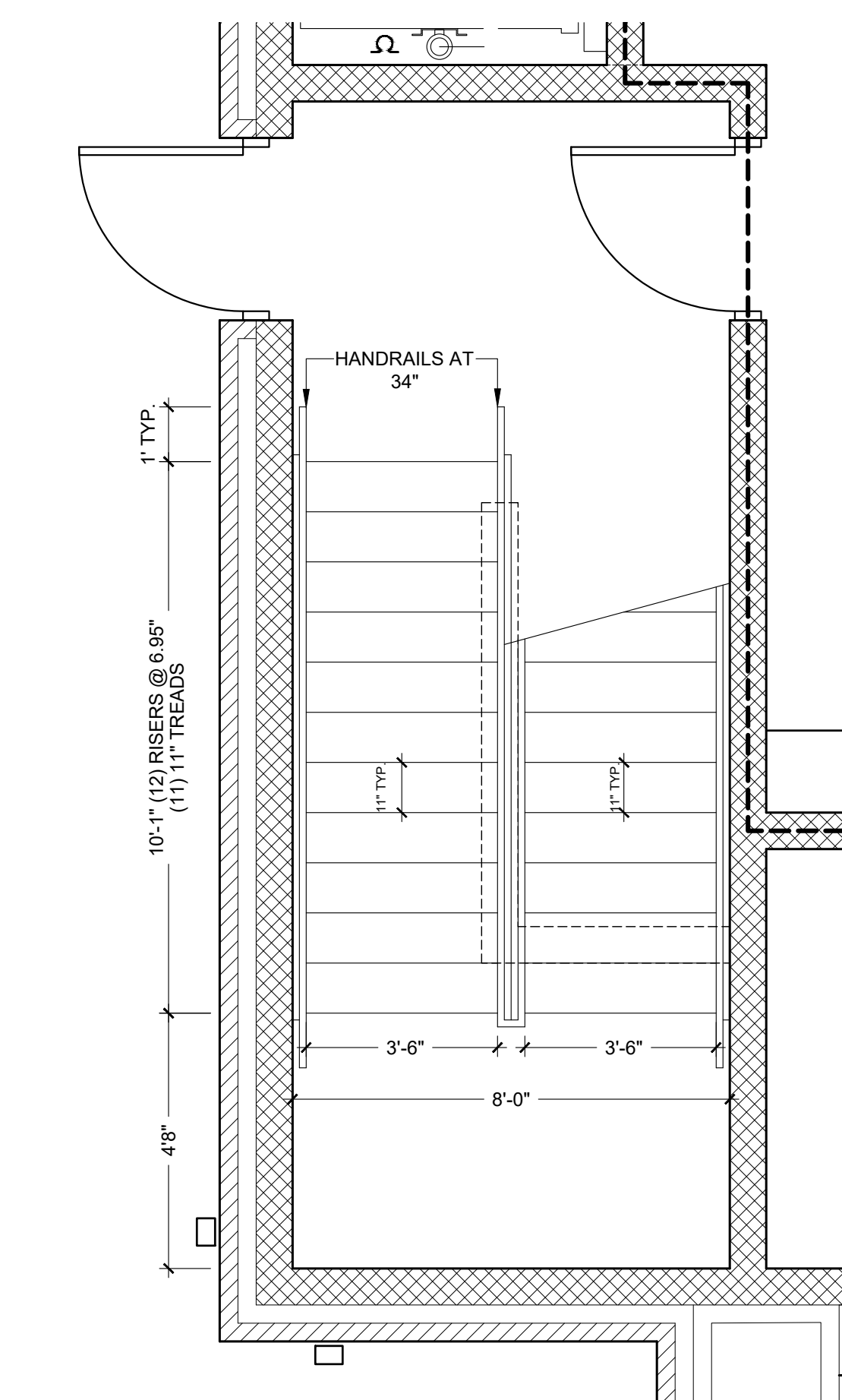
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**1 TOILET PLAN**  
SCALE: 3/8" = 1'-0"



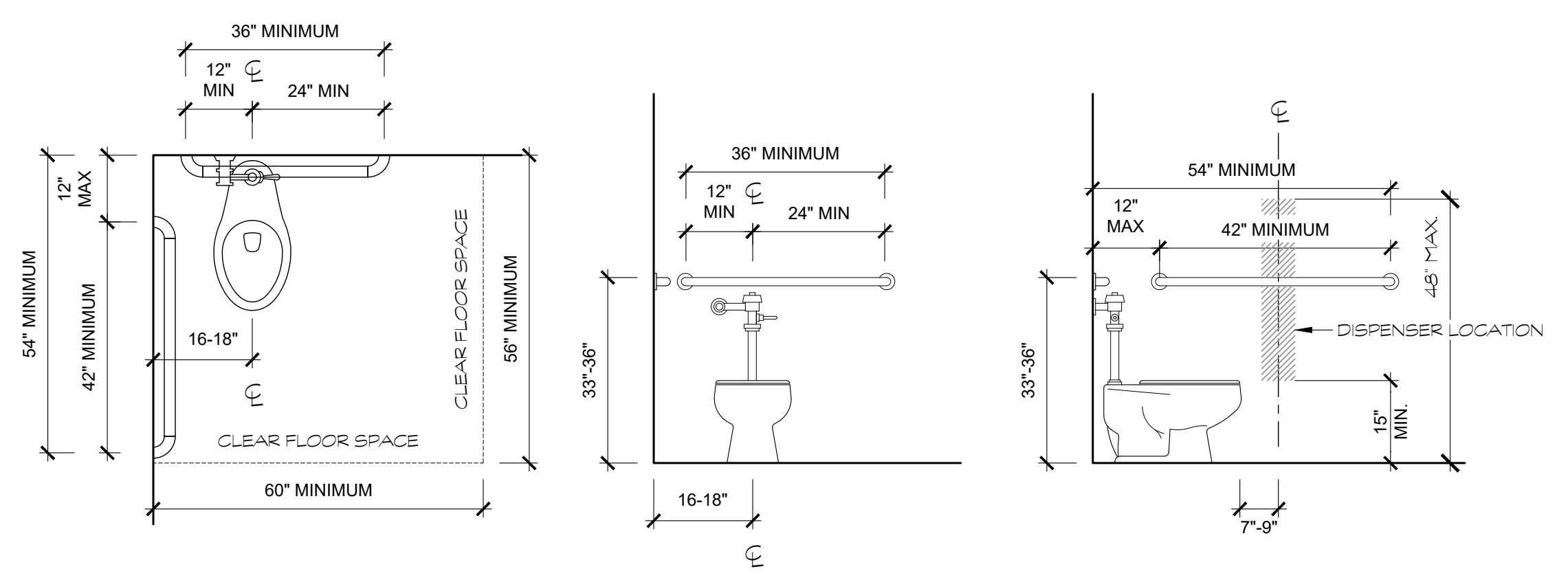
**2 CRIME LAB PLAN**  
SCALE: 3/8" = 1'-0"



**3 STAIRCASE PLAN**  
SCALE: 3/8" = 1'-0"

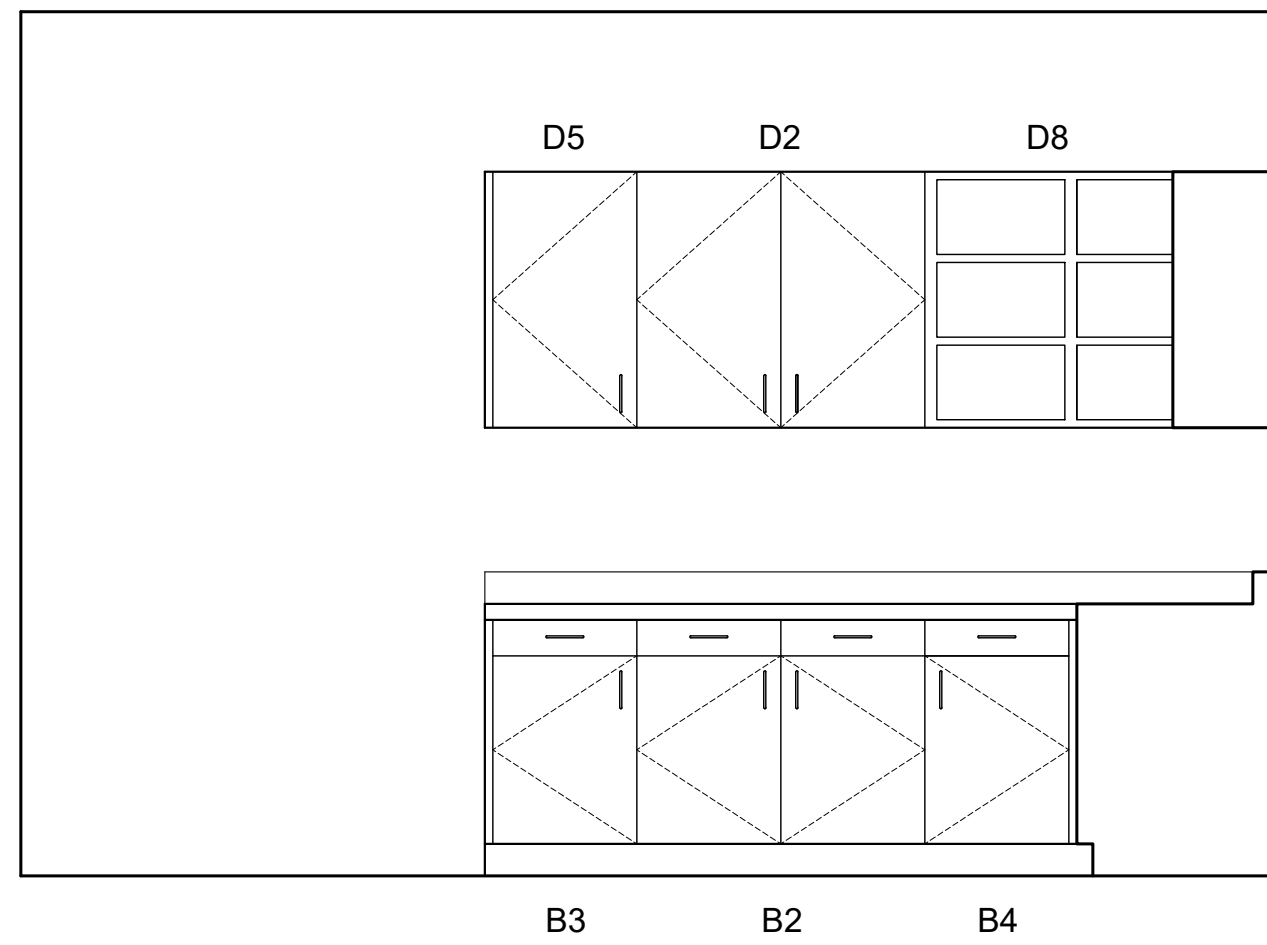
SCHEDULE OF TOILET ACCESSORIES				
MARK	ITEM	MFR.	No.	LOCATION
A	GRAB BARS AT SIDE WALL OF WATER CLOSETS	BOBRICK	B-5806-42	33" TO CENTERLINE AFF
B	GRAB BARS AT REAR WALL OF WATER CLOSETS	BOBRICK	B-5806-36	33" TO CENTERLINE AFF
C	TOILET PAPER DISPENSER	OWNER FURNISHED CONTRACTOR INSTALLED		40" TO BOTTOM OF DISPENSER AFF - ONE DISPENSER PER WATER CLOSET
D	PAPER TOWEL DISPENSER	OWNER FURNISHED CONTRACTOR INSTALLED		40" TO BOTTOM OF DISPENSER AFF
E	MIRROR	BOBRICK	B-290-2436	40" TO BOTTOM OF MIRROR AFF
F	SOAP DISPENSER	OWNER FURNISHED CONTRACTOR INSTALLED		40" TO BOTTOM OF DISPENSER AFF - ONE PER HANDWASH SINK LOCATION
G	ROBE HOOK	BOBRICK	B-212	40" TO CENTERLINE AFF
H	SANITARY NAPKIN DISPOSAL	BOBRICK	B-270	LOCATION TO BE PROVIDED BY OWNER
I	HAND DRYER	XCELERATOR	XL-SB	40" TO BOTTOM OF OUTLET
J	SHOWER ROD & CURTAIN	BOBRICK	B-207X60	74 1/2" TO CENTERLINE OF ROD AFF
K	SHOWER SEAT	BOBRICK	B-918116R	INSTALL PER MANUFACTURER
L	48" BENCH	GLOBAL	#493712	INSTALL PER MANUFACTURER

NOTE: COORDINATE ALL FINAL MOUNTING HEIGHTS WITH OWNER PRIOR TO INSTALLATION.



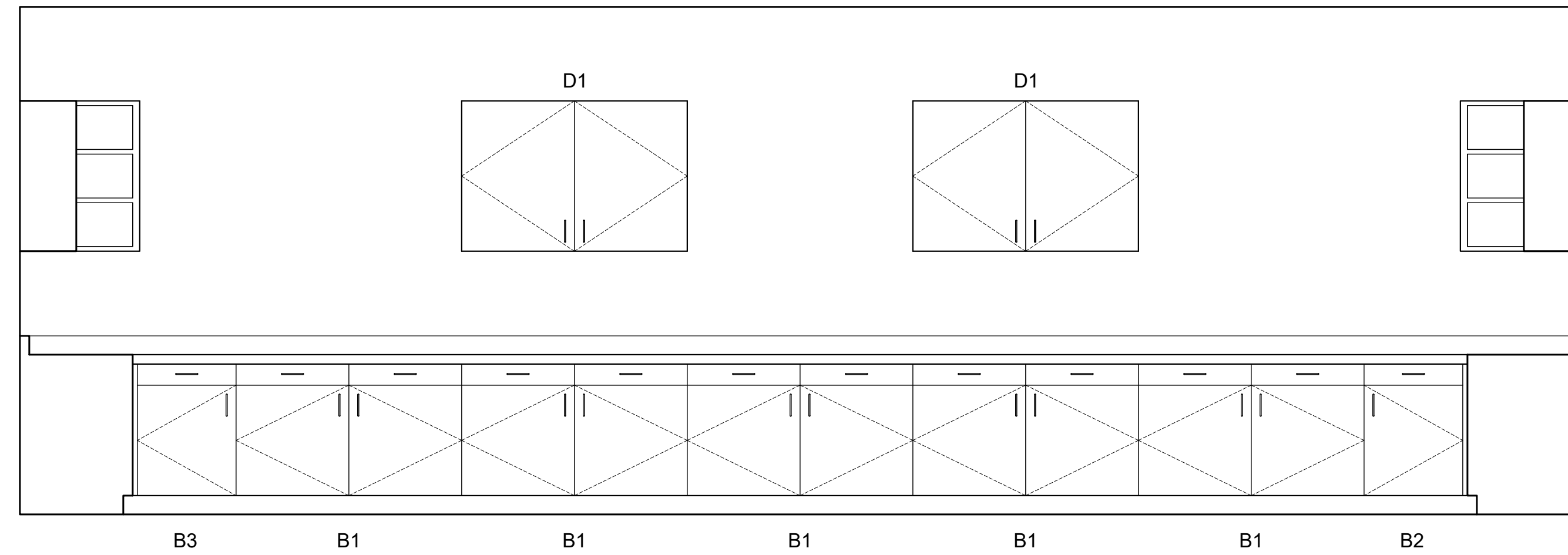
**ADA INSTALLATION GUIDELINES**

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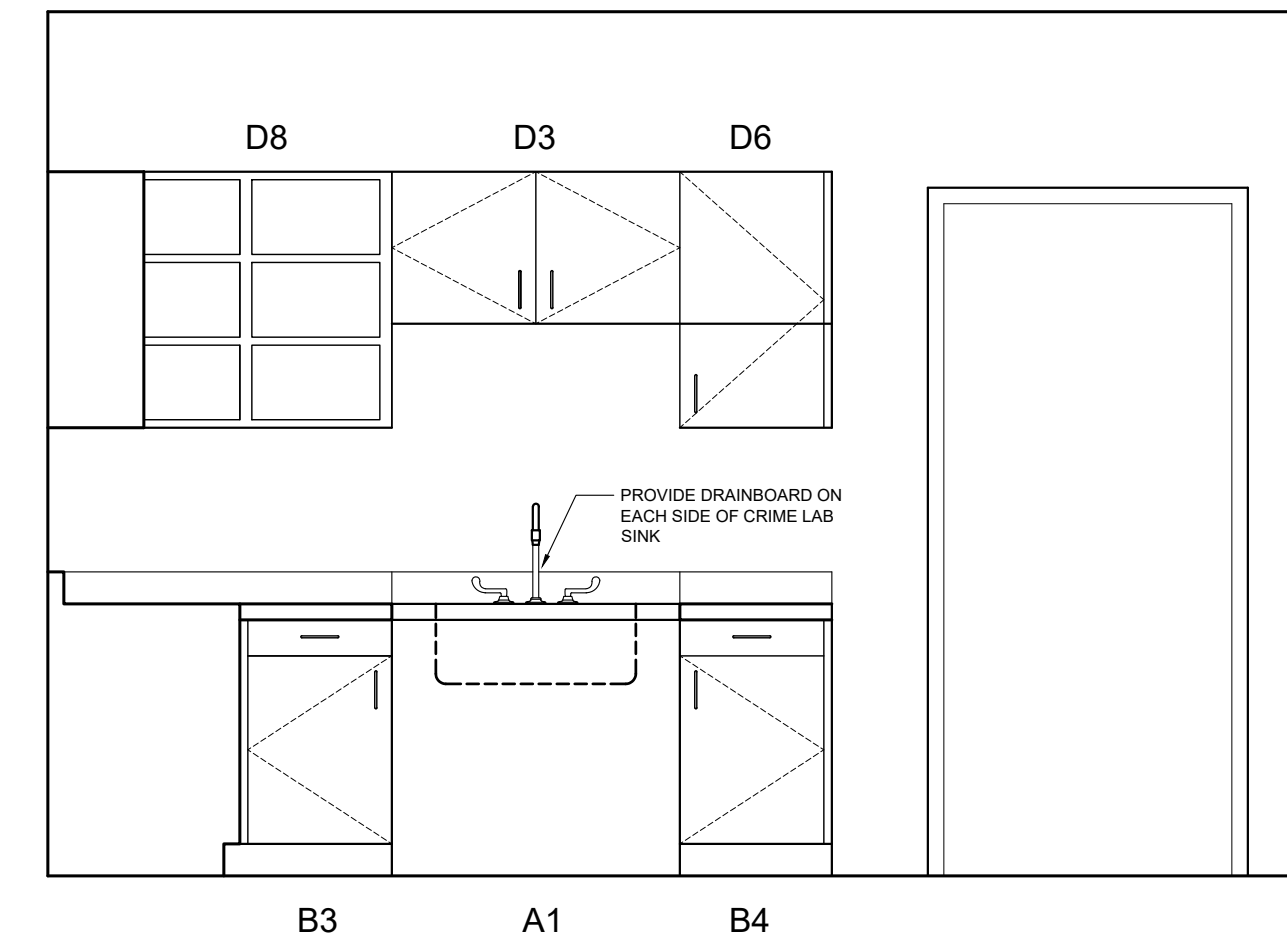
**1 CRIME LAB**

SCALE: 1/2" = 1"



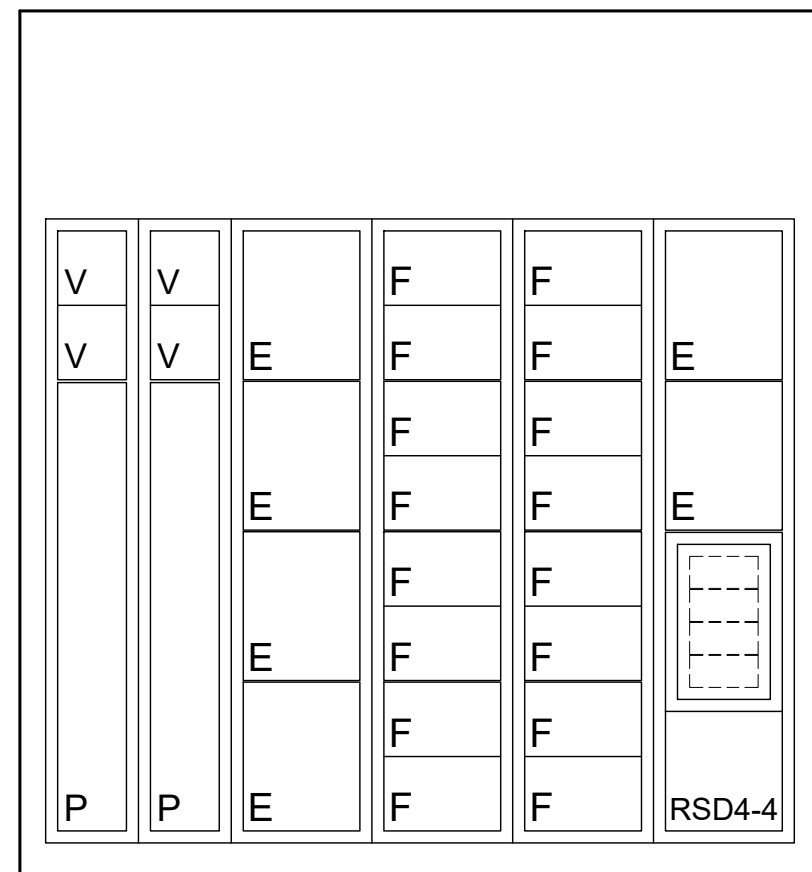
**2 CRIME LAB**

SCALE: 1/2" = 1"



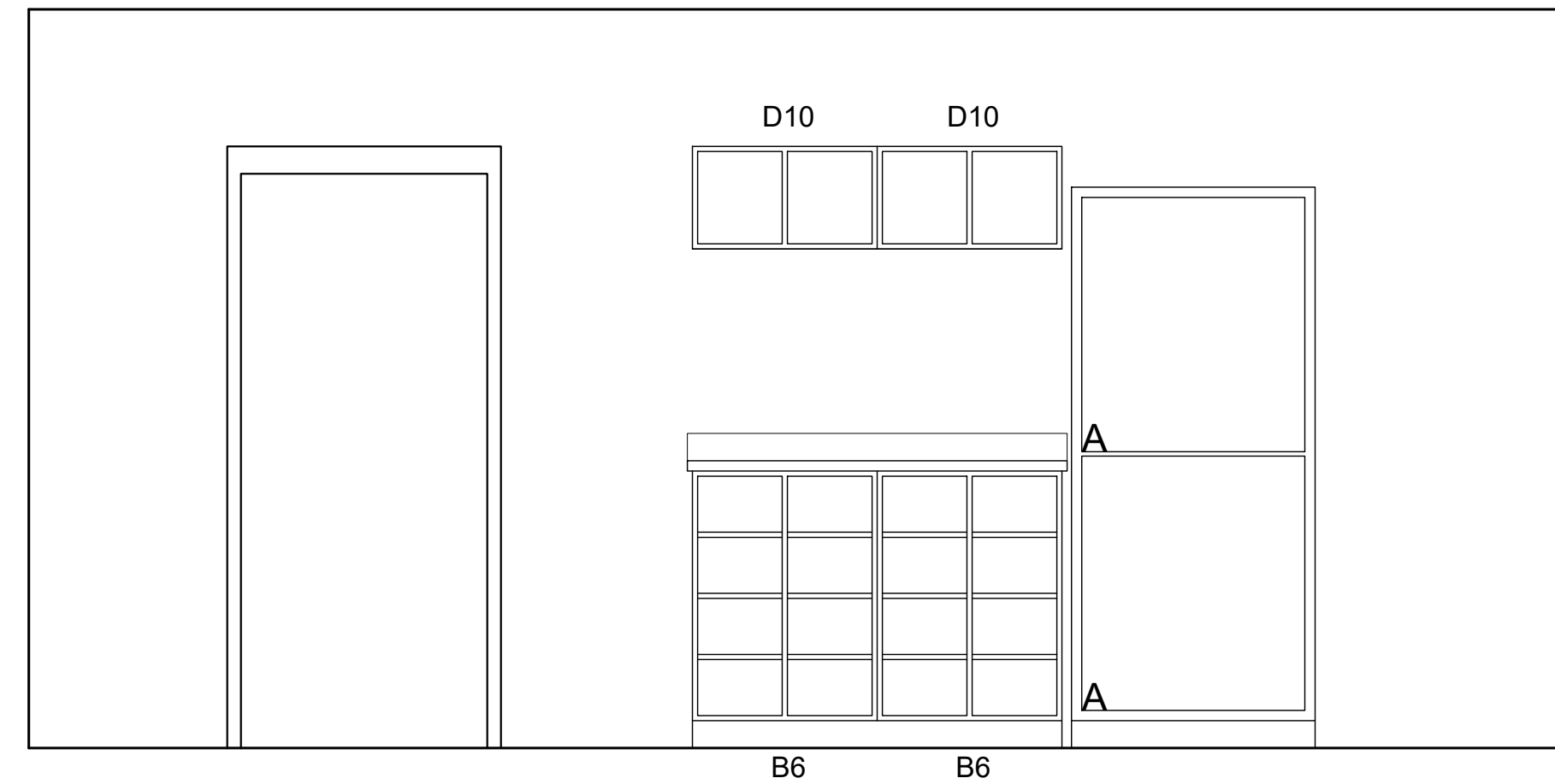
**3 CRIME LAB**

SCALE: 1/2" = 1"



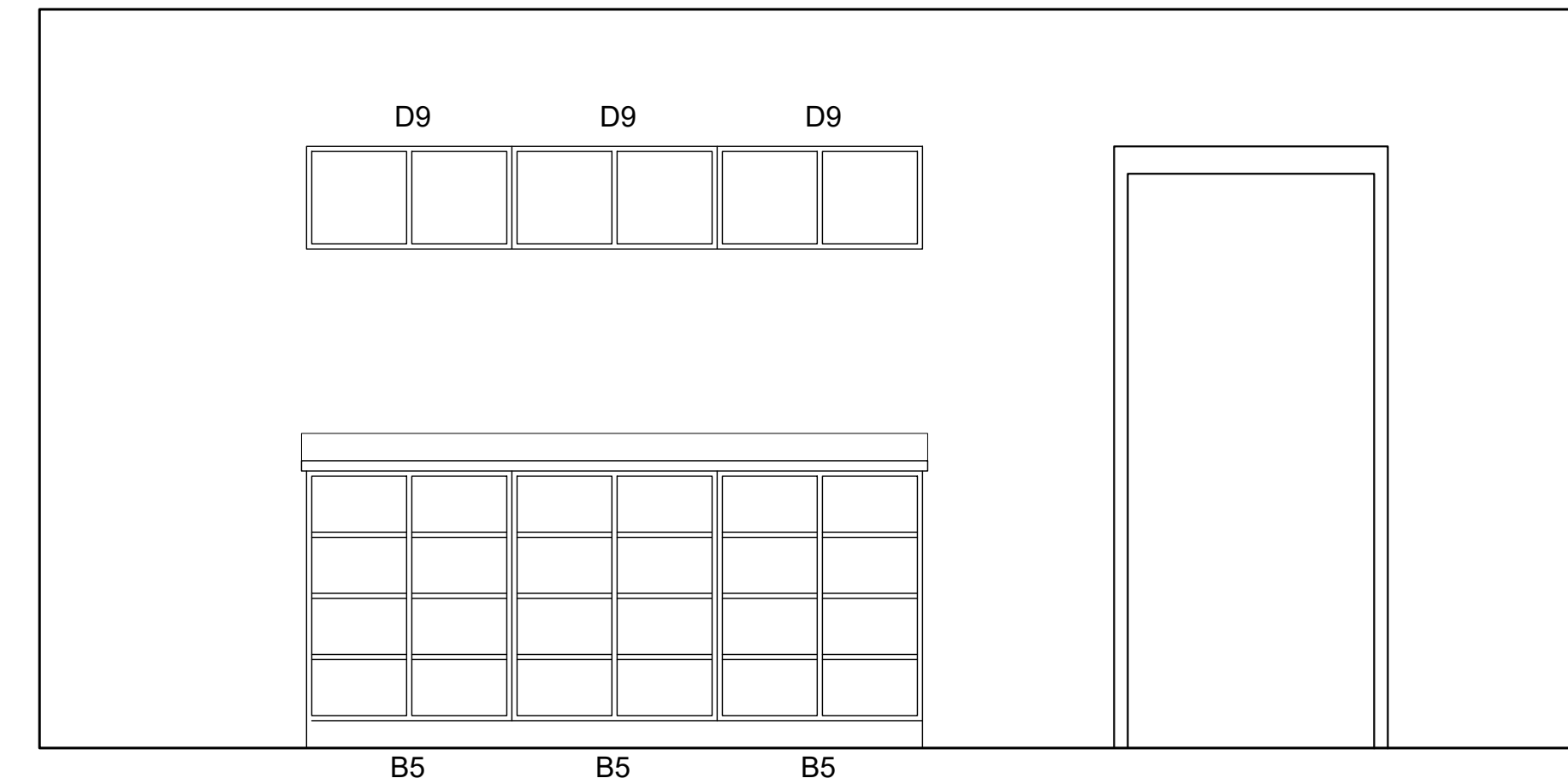
**4 EVIDENCE LOCKERS**

SCALE: 1/2" = 1"



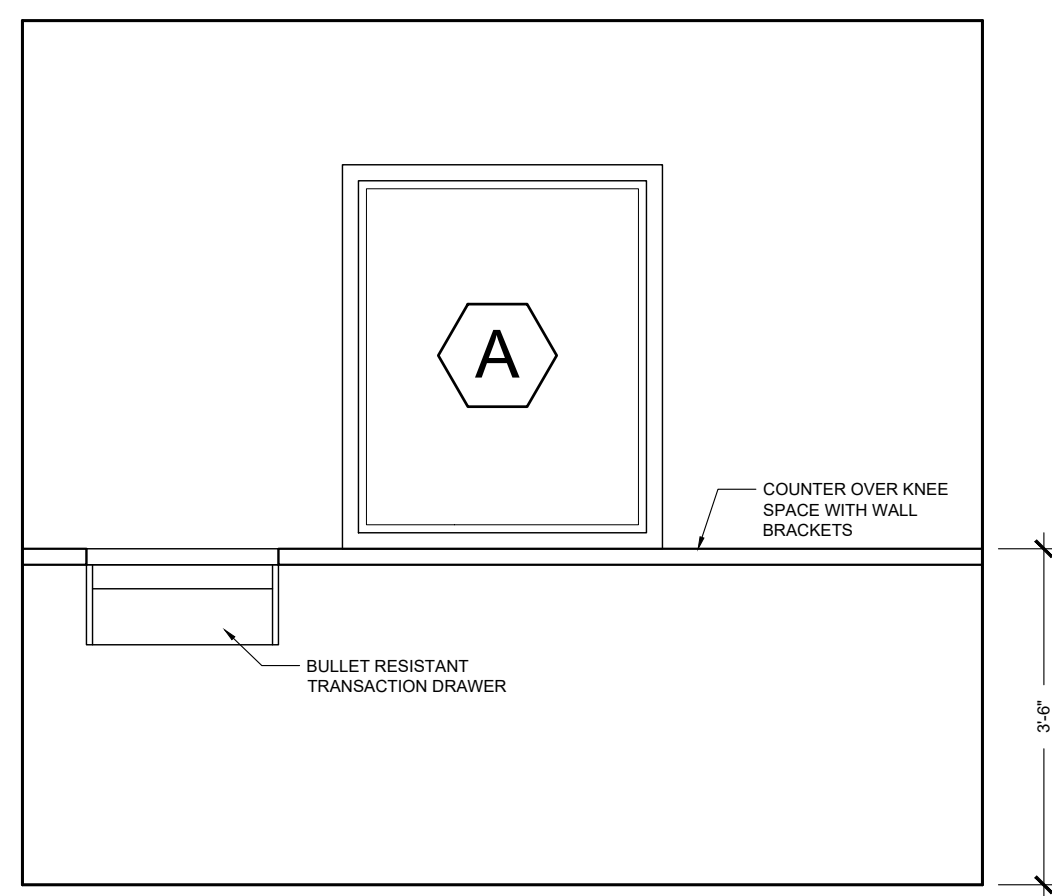
**5 EVIDENCE DROP OFF**

SCALE: 1/2" = 1"



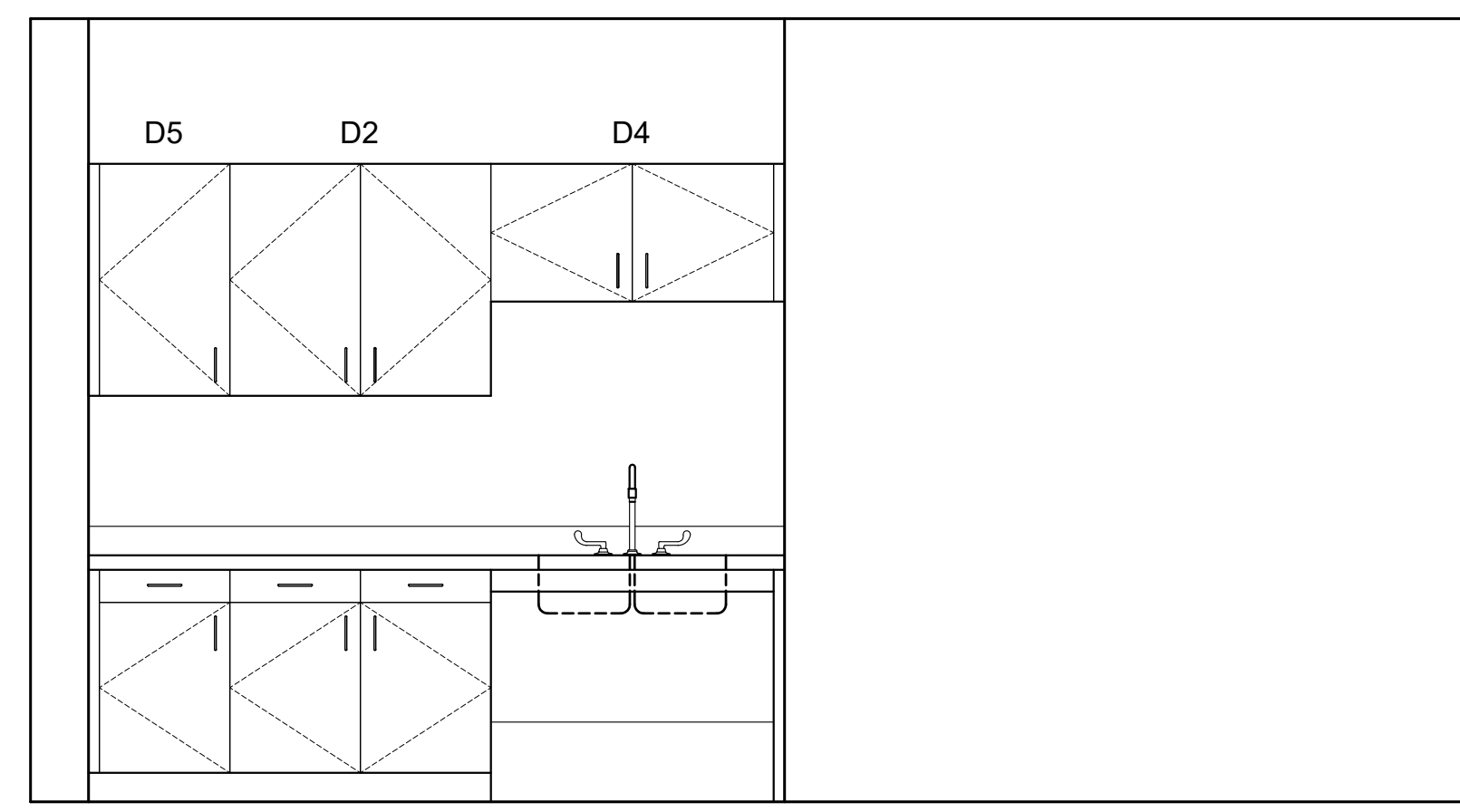
**6 EVIDENCE DROP OFF**

SCALE: 1/2" = 1"



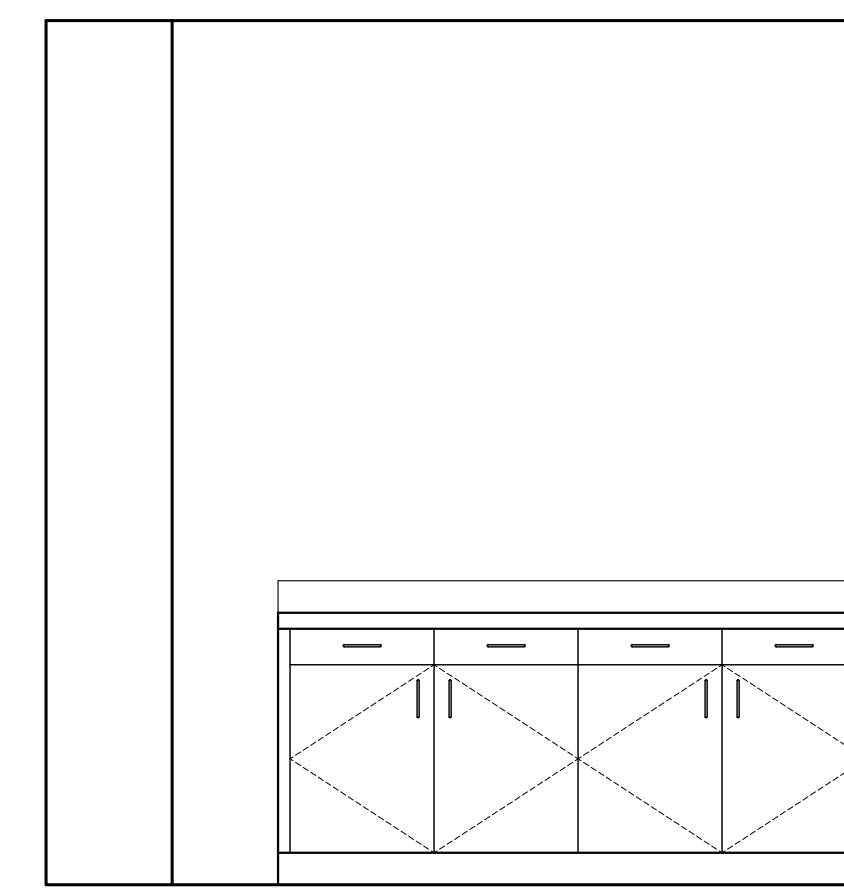
**7 VISITOR WINDOW ELEVATION**

SCALE: 1/2" = 1"



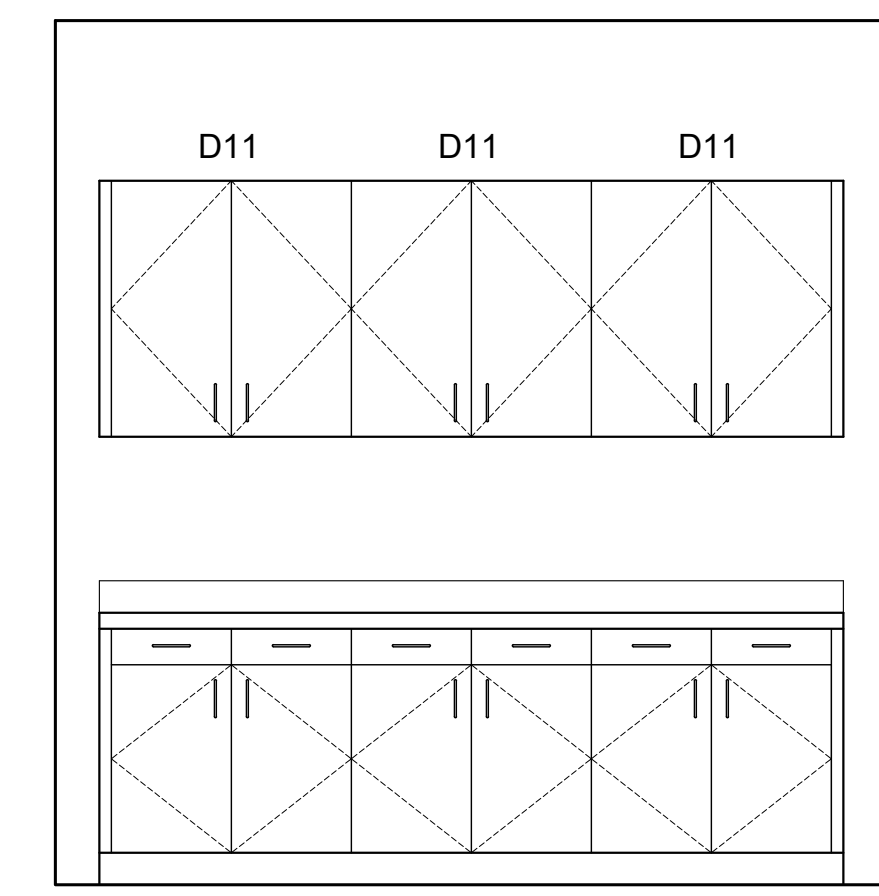
**8 EMPLOYEE BREAK AREA**

SCALE: 1/2" = 1"



**9 EVIDENCE ROOM**

SCALE: 1/2" = 1"



**10 VEHICLE BAY**

SCALE: 1/2" = 1"

**EVIDENCE LOCKER SCHEDULE**

V	(PASSTHROUGH)	8.594W, 18.594H, 24D
F	(PASSTHROUGH)	14.594W, 18.594H, 24D
E	(PASSTHROUGH)	14.594W, 18.594H, 24D
P	(PASSTHROUGH)	8.594W, 56.031H, 24D
A	(NOT PASSTHROUGH)	32.594W, 37.188H, 24D
RSRD4-4	(PASSTHROUGH)	14.594W, 37.313H, 24D

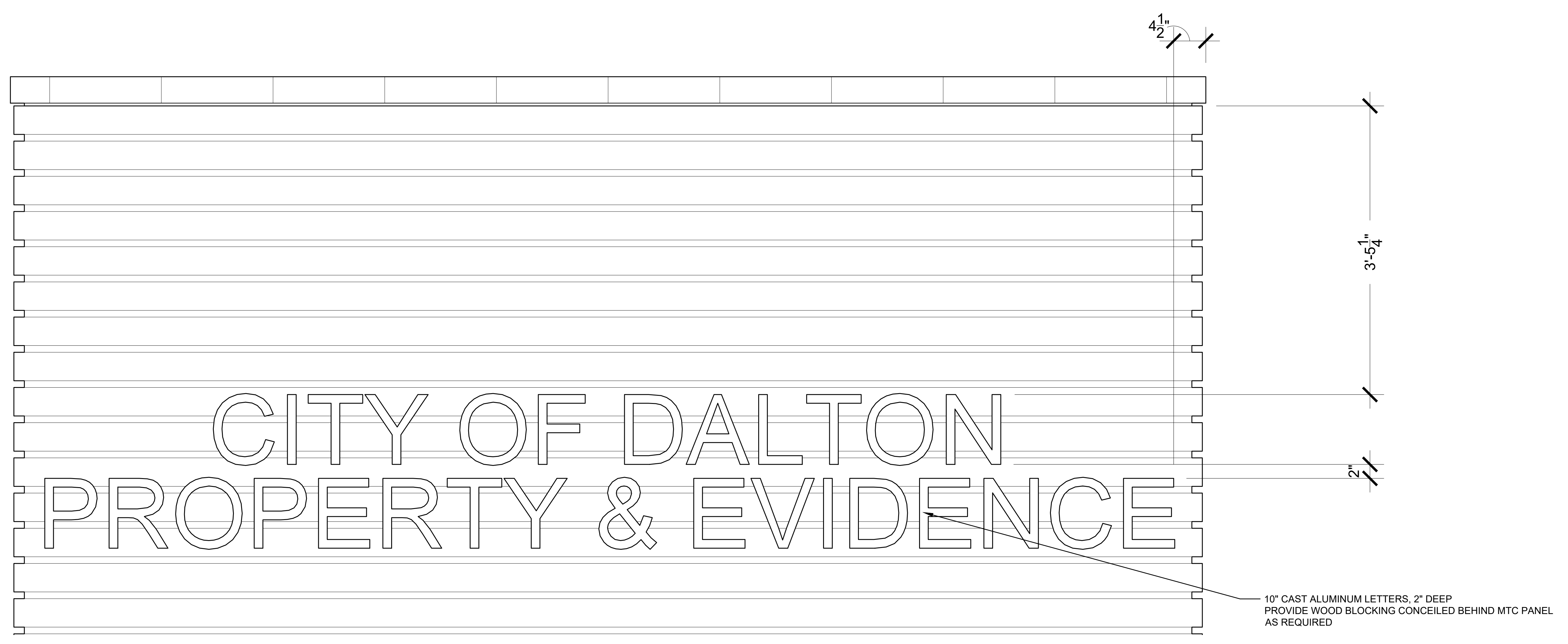
**CASEWORK SCHEDULE**

A1	06000458	ADA SINK	25W, 34H, 15D	D1	W30200	WALL CABINET	48W, 32H, 12D
A2	B15900	ADA SINK	39W, 34H, 24D	D2	W30200	WALL CABINET	36W, 32H, 12D
B1	B22200	BASE CABINET	48W, 34H, 24D	D3	W30200	WALL CABINET	36W, 19H, 12D
B2	B22200	BASE CABINET	36W, 34H, 24D	D4	W30200	WALL CABINET	39W, 19H, 12D
B3	B21100L	BASE CABINET	18W, 34H, 24D	D5	W30100L	WALL CABINET	18W, 32H, 12D
B4	B21100R	BASE CABINET	18W, 34H, 24D	D6	W30100R	WALL CABINET	18W, 32H, 12D
B5	B11024	BASE CABINET	30W, 42H, 24D	D7	W30000	WALL CABINET	33W, 32H, 12D
B6	B11024	BASE CABINET	27W, 42H, 24D	D8	W30000	WALL CABINET	31W, 32H, 12D
				D9	W30010	WALL CABINET	30W, 12H, 12D
				D10	W30010	WALL CABINET	27W, 12H, 12D
				D11	W30200	WALL CABINET	30W, 32H, 12D

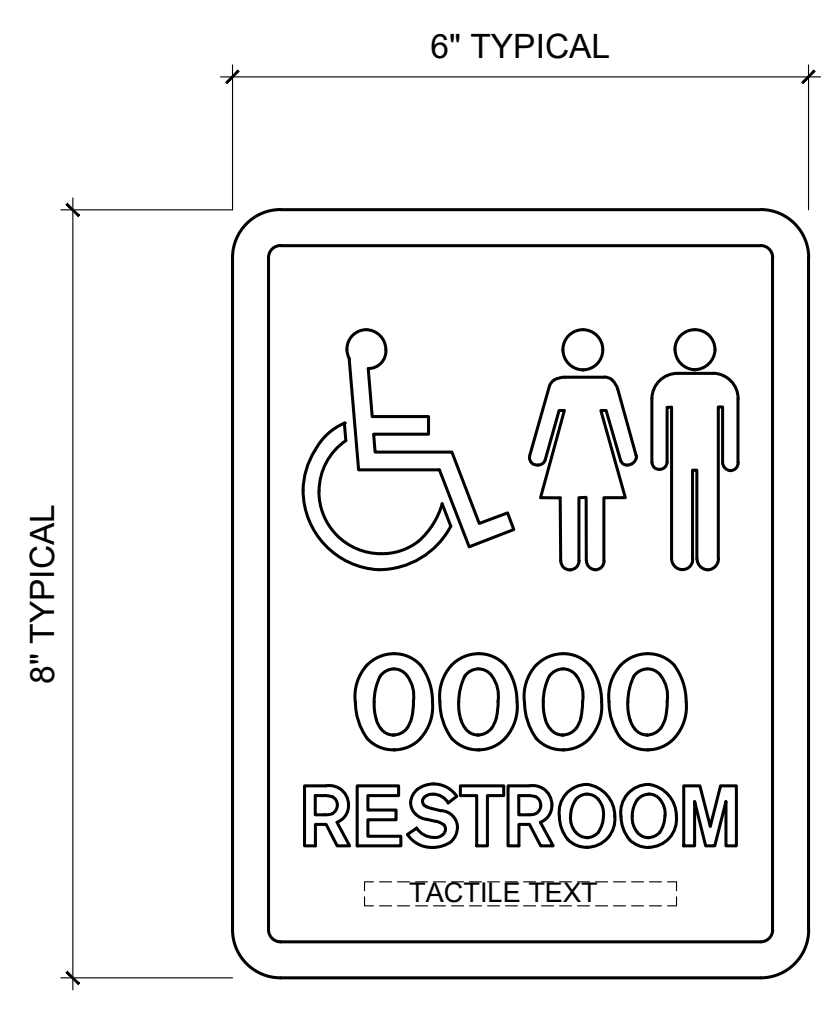
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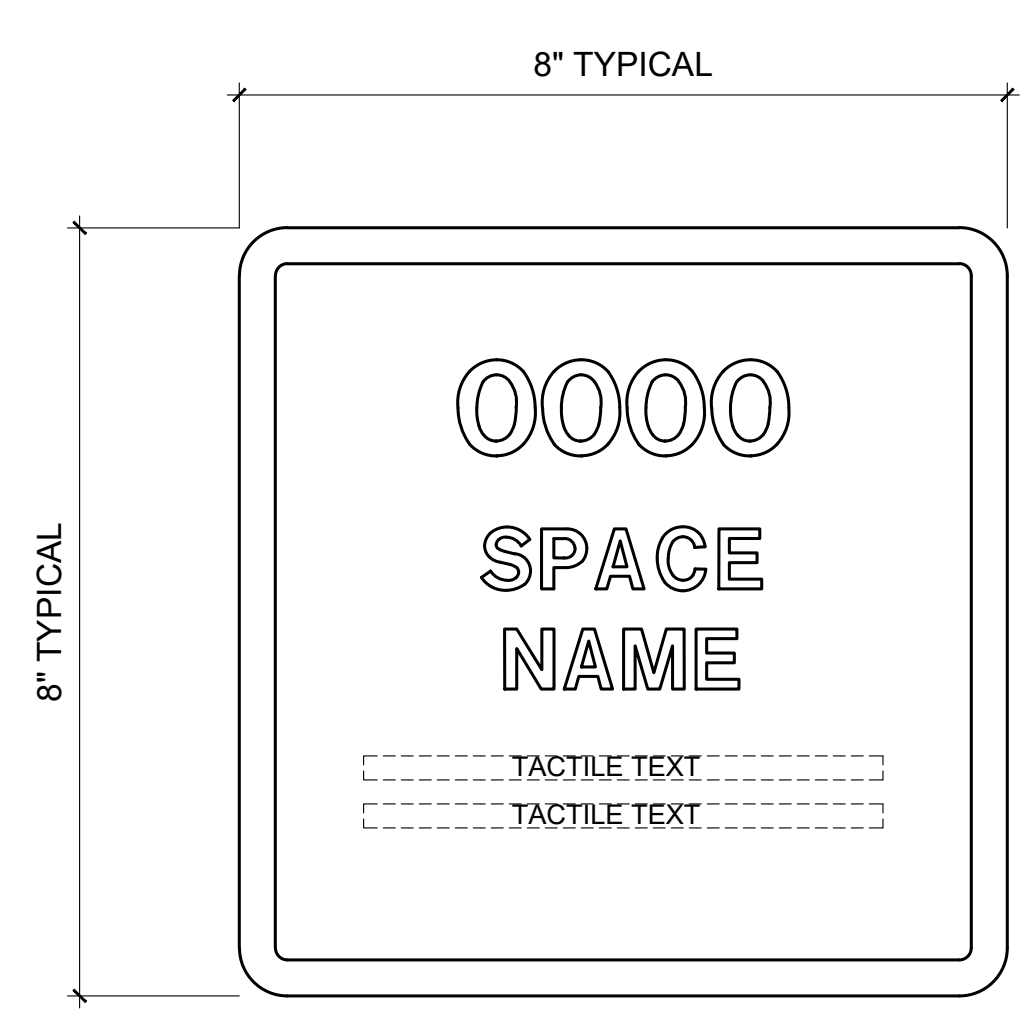
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**A SIGNAGE AT FRONT ENTRANCE**  
SCALE: 1-1/2" = 1"



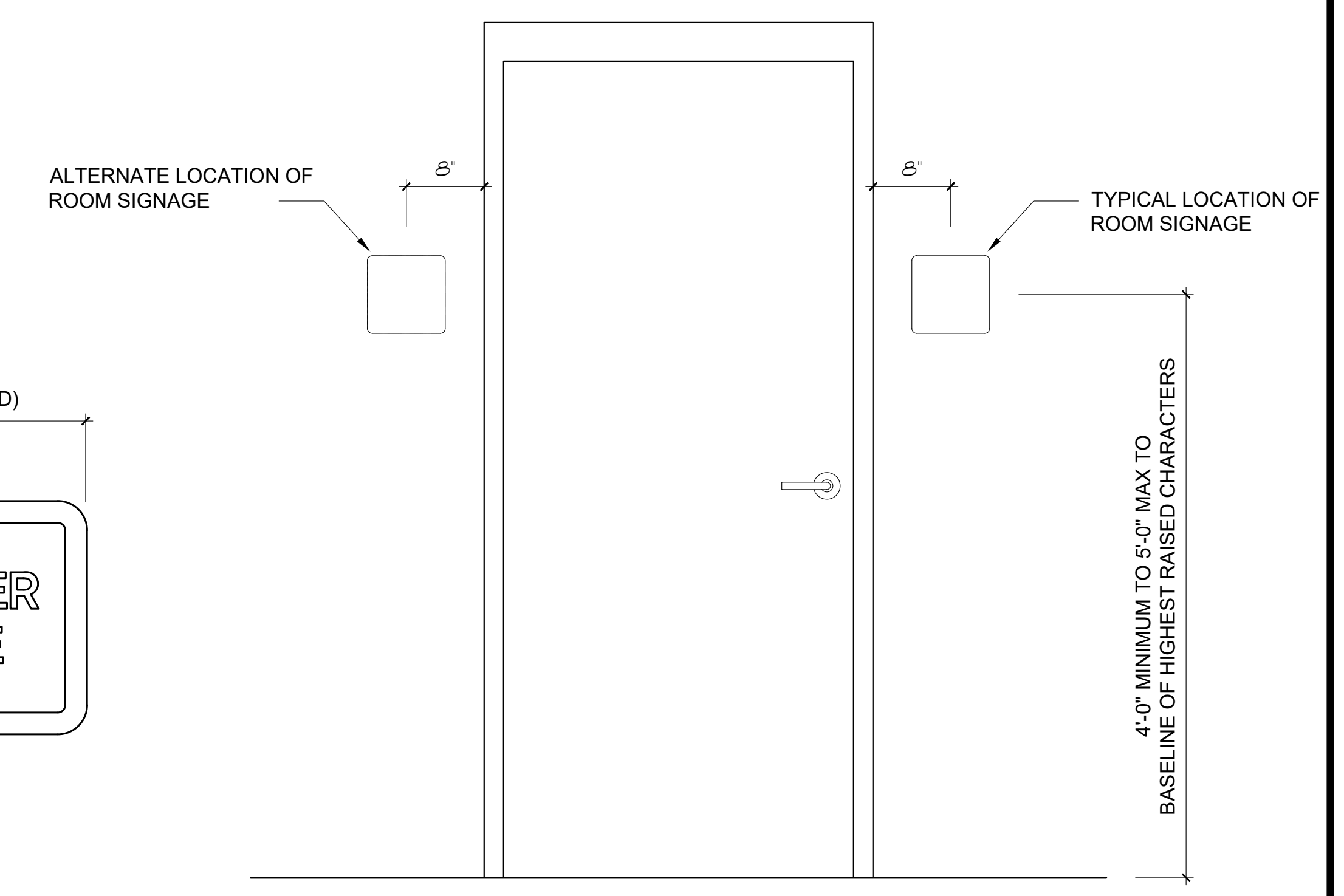
**B RESTROOM SIGNAGE**  
SCALE: 6" = 1"



**C ROOM SIGNAGE**  
SCALE: 6" = 1"



**D LIFE SAFETY SIGNAGE**  
SCALE: 6" = 1"



**1 SIGNAGE MOUNTING LOCATION**  
SCALE: 1" = 1'-0"

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**STRUCTURAL STEEL:**

DESIGN CODE:  
AMERICAN INSTITUTE OF STEEL CONSTRUCTION 'SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS - AISC 360-16

- STEEL SHALL CONFORM TO THE FOLLOWING GRADES:  
STRUCTURAL W-SHAPES ALL CHANNELS, ANGLES, PLATES, ETC. (UNO) STRUCTURAL TUBES STEEL PIPE ANCHOR RODS HIGH STRENGTH BOLTS HEX NUTS - GRADE A WELDING ELECTRODES WASHERS - TYPE I
- ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE (AISC 2016) EXCEPT AS MODIFIED IN THESE NOTES AND THE PROJECT SPECIFICATIONS.
- THE STEEL STRUCTURE IS A NON-SELF-SUPPORTING STEEL FRAME AND IS DEPENDENT UPON DIAPHRAGM ACTION OF THE METAL ROOF DECK AND ATTACHMENT TO THE MASONRY WALLS AND METAL STUD SHEAR WALLS FOR STABILITY AND FOR RESISTANCE TO WIND AND SEISMIC FORCES. PROVIDE ALL TEMPORARY SUPPORTS REQUIRED FOR STABILITY AND FOR RESISTANCE TO WIND AND SEISMIC FORCES UNTIL THESE ELEMENTS ARE COMPLETE AND ARE CAPABLE OF PROVIDING THIS SUPPORT.
- THE FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF ALL CONNECTIONS SHOWN ON THE STRUCTURAL DRAWINGS. CONNECTIONS SHOWN ARE SCHEMATIC AND ARE ONLY INTENDED TO SHOW THE RELATIONSHIP OF MEMBERS CONNECTED. CONNECTION DETAILS INDICATED ON THE DRAWINGS SHALL BE INCORPORATED INTO FABRICATOR'S CONNECTION DESIGN ONLY AS THEY ARE DEEMED APPROPRIATE AND ADEQUATE. BOLTED CONNECTIONS SHALL BE ASSEMBLED AND INSPECTED IN ACCORDANCE WITH AISC 14TH EDITION 'SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR ASTM A490 BOLTS.
- SPLICING OF STEEL MEMBERS UNLESS SHOWN ON THE DRAWINGS IS PROHIBITED WITHOUT WRITTEN APPROVAL OF THE ARCHITECT.
- NO HOLES SHALL BE CUT IN ANY STEEL ELEMENT UNLESS THEY ARE DETAILED ON THE DRAWINGS.
- UNLESS NOTED OTHERWISE, BEAMS SHALL BEAR 8" MINIMUM ON CONCRETE OR MASONRY. ANCHOR BEAMS TO MASONRY WITH TWO 5/8" DIAMETER ANCHOR RODS WITH 1'-0" EMBEDMENT INTO GROUT FILLED MASONRY.
- WHERE BEAMS INTERSECT AT THE TERMINATING ELEVATION OF A COLUMN, THE BEAM WITH THE GREATEST REACTION SHALL BEAR ON TOP OF THE COLUMN UNLESS NOTED OTHERWISE ON DRAWINGS. WHERE BEAMS INTERSECT AT THE INTERMEDIATE ELEVATION OF A COLUMN, THE FRAMING BEAMS SHALL BE CONNECTED TO THE COLUMNS WITH A WT CONNECTION. FIN PLATE CONNECTIONS ARE NOT PERMITTED.
- CONNECTIONS FOR NON-COMPOSITE BEAMS WHICH CANNOT CONFORM TO AISC TYPICAL CONNECTION DETAILS SHALL BE DETAILED IN ACCORDANCE WITH THE FOLLOWING:  
A. WHERE BEAM REACTIONS ARE NOT SHOWN ON THE DRAWINGS, CONNECTIONS SHALL BE DESIGNED FOR ONE-HALF THE MAXIMUM UNIFORM LOAD WHICH THE BEAM WILL SUPPORT (AS SIMPLE SPAN) FOR THE SPAN SHOWN ON THE DRAWINGS. (TABLE 3-6, AISC 15TH EDITION)  
B. WHERE CONNECTIONS ARE SUBJECT TO ECCENTRICITY, SUCH ECCENTRICITY SHALL BE TAKEN INTO ACCOUNT WHEN DESIGNING THE CONNECTION.  
C. WHERE CONNECTIONS SUPPORT BEAMS WHICH ARE SUBJECT TO CONCENTRATED LOADS, SUCH CONCENTRATED LOADS SHALL BE TAKEN INTO ACCOUNT WHEN DESIGNING THE CONNECTION.  
D. BOLTED CONNECTIONS SHALL BE BEARING TYPE WITH A325 BOLTS. MINIMUM DIAMETER OF ALL BOLTS SHALL BE 3/4" MAX. DIA 1 1/8". PROVIDE AT LEAST 2 BOLTS PER CORNER. TIGHTENED SNUGS TIGHT.  
E. END CONNECTIONS OF FLOOR MEMBERS SHALL ACCOMMODATE END ROTATIONS OF SIMPLE, UNRESTRAINED BEAMS. FOR THIS PURPOSE, INELASTIC ACTION IN THE CONNECTION IS PERMITTED.  
F. COPED OR CUT ENDS OF MEMBERS SHALL BE REINFORCED WHERE REQUIRED TO SUSTAIN THE SPECIFIED REACTIONS.
- TENSILE CONNECTIONS SHALL BE DESIGNED FOR A FORCE RESULTING FROM MULTIPLYING THE GROSS AREA BY 20 KSI.
- FABRICATE AND ERECT MEMBERS WITH NATURAL CAMBER UP.
- STRUCTURAL STEEL CONTRACTOR TO PROVIDE DECK SUPPORT ANGLES AS REQD (3x3x1/4 MINIMUM UNO). THE CONTINUOUS ANGLE AT THE ROOF PERIMETER SHALL BE SPLICED SUCH THAT THE FULL TENSION FORCE THAT CAN BE DEVELOPED BY THE ANGLE WILL BE TRANSFERRED THROUGHOUT THE SPLICE.
- UNLESS OTHERWISE SHOWN ON DRAWINGS, SIZE OF WELDS SHALL NOT BE SMALLER THAN 3/16". ALL WELDED JOINTS SHALL CONFORM TO THE PROVISIONS OF AWS D11.1 STRUCTURAL WELDING CODE BY AMERICAN WELDING SOCIETY. PROOF OF WELDER CERTIFICATION SHALL BE AVAILABLE AT THE JOB SITE DURING TIMES OF INSPECTION.
- THE CONTRACTOR SHALL PROVIDE, AT NO ADDITIONAL COST, ALL ADDITIONAL STEEL CONNECTIONS, GUYING, ETC. REQUIRED FOR ERECTION.
- OBTAIN ALL FIELD MEASUREMENTS REQUIRED FOR PROPER FABRICATION AND INSTALLATION OF WORK PRIOR TO DETAILING. PRECISE MEASUREMENTS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- PROVIDE STIFFENERS FINISHED TO BEAR UNDER ALL LOAD CONCENTRATIONS ON SUPPORTING MEMBERS, ON ALL MEMBERS FRAMING OVER COLUMNS, AT BEAM/COLUMN JOINTS (AS REQUIRED BY THE AISC SPECIFICATIONS) AND WHERE SHOWN ON THE DRAWINGS.
- SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND ELEVATIONS OF LOOSE LINTELS.
- THE FABRICATOR SHALL BE RESPONSIBLE FOR ALL ERRORS OF DETAILING ON THE SHOP DRAWINGS, ERRORS IN FABRICATION, AND FOR THE CORRECT FITTING OF STRUCTURAL STEEL MEMBERS.
- WELDING INSPECTION SHALL MEET REQUIREMENTS AS STATED IN THE SCHEDULE OF SPECIAL INSPECTIONS.
- ALL STRUCTURAL STEEL NOT RECEIVING FIRE PROOFING SHALL RECEIVE ONE SHOP COAT OF RUST INHIBITIVE PRIMER.

**STEEL JOISTS (K SERIES):**

- STEEL JOISTS SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE 'STANDARD SPECIFICATIONS FOR OPEN WEB STEEL JOISTS, K-SERIES' (1989) OF THE STEEL JOIST INSTITUTE (SJI).
- STEEL JOISTS SHALL BE DESIGNED BY THE MANUFACTURER. THE MANUFACTURER'S ENGINEER SHALL BE RESPONSIBLE FOR THE DESIGN, ADEQUACY AND SAFETY OF ALL STEEL JOISTS. ALL SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN GEORGIA.
- UNLESS OTHERWISE NOTED, STEEL JOISTS SHALL BE DESIGNED AS SIMPLY SUPPORTED UNIFORMLY LOADED TRUSSES WITH THE TOP CHORD BRACED AGAINST LATERAL BUCKLING. THE UNIFORM DESIGN LOAD SHALL BE THE TOTAL SAFE UNIFORMLY DISTRIBUTED LOAD AS SHOWN IN THE SJI STANDARD LOAD TABLE.
- WHEN NET UPLIFT FORCES DUE TO WIND ARE SHOWN ON THE DRAWINGS, THE MANUFACTURER SHALL DESIGN THE JOISTS, BRIDGINS, AND CONNECTIONS OF THE JOISTS TO THE SUPPORTING STRUCTURE FOR THE NET UPLIFT. A SINGLE LINE OF BOTTOM CHORD BRIDGING MUST BE PROVIDED NEAR THE FIRST BOTTOM CHORD PANEL POINTS WHENEVER UPLIFT DUE TO WIND FORCES IS SHOWN ON THE DESIGN DRAWINGS.
- WHEN NON-UNIFORM OR CONCENTRATED LOADS ARE SHOWN ON THE DRAWINGS, THE MANUFACTURER SHALL DESIGN THE JOISTS IN ACCORDANCE WITH THE SJI STANDARD SPECIFICATION FOR OPEN WEB STEEL JOISTS, K-SERIES.

- STEEL JOIST BRIDGING SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE SJI SPECIFICATION. ALL BRIDGING AND BRIDGING ANCHORS SHALL BE PLACED AND STEEL JOIST ENDS FIXED PRIOR TO THE APPLICATION OF ANY LOADS. BRIDGING THAT TERMINATES AT, OR IS INTERRUPTED BY, STRUCTURAL STEEL BEAMS, MASONRY WALLS OR CONCRETE WALLS SHALL BE ATTACHED THERETO. COORDINATE BRIDGING LOCATIONS TO AVOID INTERFERENCE WITH ALL MECHANICAL, ELECTRICAL, FIRE PROTECTION EQUIPMENT, AND ARCHITECTURAL CONDITIONS.
- MINIMUM BEARING REQUIREMENTS FOR K-SERIES JOISTS, UNLESS NOTED OTHERWISE, SHALL BE 2-1/2" ON STRUCTURAL STEEL AND 4" ON STEEL BEARING PLATES OVER MASONRY OR CONCRETE.
- UNLESS NOTED OTHERWISE, K-SERIES STEEL JOISTS SHALL BE ATTACHED TO SUPPORTING STEEL WORK OR STEEL BEARING PLATE WITH TWO 1/8" FILLET WELDS (ONE EACH SIDE), 2" LENGTH MINIMUM, OR WITH (2) 1/2" DIAMETER BOLTS (ONE EACH SIDE).
- STEEL JOISTS AT COLUMN CENTER LINES SHALL BE BOLTED TO STRUCTURAL STEEL WITH TWO 1/2" DIAMETER BOLTS. WHERE STEEL JOISTS DO NOT SPACE TO COLUMN CENTER LINES, USE BOLTED CONNECTIONS FOR THE STEEL JOIST CLOSEST TO THE CENTERLINE.
- HOLES IN STEEL JOIST CHORDS ARE NOT PERMITTED, EXCEPT FOR BOLTED CONNECTIONS AT THE BEARING END OF THE STEEL JOIST.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING JOIST ANCHORAGE THAT MEETS ALL OSHA REQUIREMENTS.
- ALL ITEMS SUCH AS MECHANICAL EQUIPMENT, DUCT WORK, PIPES, CEILING FIXTURES, ETC. THAT ARE TO BE SUPPORTED OR HUNG FROM THE STEEL JOISTS SHALL BE FRAMED WITH AUXILIARY FRAMING TO THE PANEL POINTS OF THE STEEL JOISTS. METHODS OF FRAMING THAT INDUCE BENDING TO THE STEEL JOIST CHORDS OR WEB MEMBERS WILL NOT BE PERMITTED.
- ALL JOISTS SHALL RECEIVE RUST-INHIBITIVE PRIMER PER PROJECT SPECIFICATIONS.

**LIGHT GAUGE METAL TRUSSES:**

- DESIGN, FABRICATIONS AND ERECTION SHALL CONFORM TO AISI 'SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS', LATEST EDITION.
- LIGHT-GAUGE METAL TRUSSES SHALL BE FULLY DESIGNED AND FABRICATED BY THE MANUFACTURER AND SHALL BEAR THE SEAL AND SIGNATURE OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF GEORGIA.
- SHOP DRAWING AND CALCULATION SUBMITTALS SHALL INCLUDE THE FOLLOWING: TRUSS SPACING, SIZE OF MEMBERS, CONNECTIONS OF TRUSS COMPONENTS, CONNECTIONS OF TRUSS MEMBERS TO THE MAIN STRUCTURE, REACTIONS OF THE CONNECTIONS TO THE MAIN STRUCTURE, AND PERMANENT BRACING.
- DESIGN OF ALL COMPONENTS SHALL CONSIDER DEAD LOADS, LIVE LOADS, SHORT TERM LOADS AND ALL SPECIAL LOADS FROM ANY EQUIPMENT, FEATURES, ETC., INCLUDING LOADS POSTED ON STRUCTURAL DRAWINGS (IF APPLICABLE). TRUSS ELEMENTS SHALL BE CAPABLE OF TRANSMITTING A DIAPHRAGM FORCE OF 225 POUNDS PER LINEAL FOOT FROM THE ROOF DECK DIAPHRAGM TO THE MAIN BUILDING STRUCTURE (UNLESS NOTED OTHERWISE ON STRUCTURAL DRAWINGS).
- UNLESS OTHERWISE NOTED ON PLANS, TRUSS TOP CHORDS SHALL BE DESIGNED FOR 15 POUNDS PER SQUARE FOOT DEAD LOAD AND THE ROOF LIVE LOAD AS NOTED ON THE ROOF PLAN. TRUSS BOTTOM CHORDS SHALL BE DESIGNED FOR 5 PSF DEAD LOAD AND NO LIVE LOAD.
- MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS EXERTING LOADS ONTO TRUSSES SHALL BE COORDINATED BY THE GENERAL CONTRACTOR. RESULTING LOADS SHALL BE PROVIDED TO THE TRUSS DESIGNER AND SHALL BE APPLIED IN ADDITION TO TYPICAL UNIFORM LOADS.
- CONCENTRATED LOADS SHALL BE APPLIED AT PANEL POINTS ONLY. FIELD CONDITIONS RESULTING IN LOADS AT NON-PANEL POINT LOCATIONS WILL BE REPORTED BY THE CONTRACTOR DIRECTLY TO THE TRUSS DESIGNER FOR APPROVAL AND REINFORCEMENT (IF REQUIRED).
- TRUSS DEFLECTION SHALL BE LIMITED TO SPAN / 240 FOR DEAD PLUS LIVE CONDITION AND SPAN / 360 FOR LIVE LOAD CONDITION.
- NO ALTERATIONS OF ANY KIND ARE PERMITTED TO ANY TRUSS MEMBER WITHOUT PRIOR WRITTEN APPROVAL OF THE TRUSS DESIGNER.
- ALL LIGHT GAUGE METAL FRAMING SHALL BE GALVANIZED.
- LIGHT GAUGE METAL TRUSS FRAMING LAYOUT SHOWN ON STRUCTURAL FRAMING PLANS IS SHOWN FOR REFERENCE ONLY AND SHALL BE BY TRUSS DESIGNER.

**VERIFICATION AND SPECIAL INSPECTION:**

- THE PROJECT OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PERFORM INSPECTIONS AND TESTING DURING CONSTRUCTION FOR THE TYPES OF WORK INDICATED BY IBC SECTIONS 1704, 1705, 1706, AND 1707. SUBMIT DOCUMENTATION THAT SUMMARIZES THE QUALIFICATIONS AND CREDENTIALS OF EACH SPECIAL INSPECTOR AND DEMONSTRATES COMPETENCE FOR THE BUILDING INSPECTOR FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
- APPROVED SPECIAL INSPECTORS SHALL FURNISH INSPECTION AND TESTING REPORTS TO THE OWNER, ARCHITECT AND BUILDING OFFICIAL AND STRUCTURAL ENGINEER OF RECORD WHICH INDICATES THE WORK INSPECTED WAS DONE IN CONFORMANCE WITH APPROVED CONSTRUCTION DOCUMENTS. REPORTS WHICH DOCUMENT THE RESULTS OF THE SPECIAL INSPECTIONS SHALL BE SUBMITTED PERIODICALLY AT A FREQUENCY APPROVED BY THE BUILDING OFFICIAL PRIOR TO CONSTRUCTION. A FINAL REPORT DOCUMENTING ALL THE WORK HAS BEEN PERFORMED IN COMPLIANCE WITH THE CONTRACT DOCUMENTS SHALL BE SUBMITTED AT THE END OF THE PROJECT.
- SPECIAL INSPECTION REPORTS AND A FINAL REPORT IN ACCORDANCE WITH SECTION 1704.2.4 SHALL BE SUBMITTED TO THE BUILDING OFFICIAL PRIOR TO THE TIME THAT PHASE OF THE WORK IS APPROVED FOR OCCUPANCY.
- SEE THE PROJECT SPECIFICATIONS AND SECTION 1704 OF THE BUILDING CODE FOR FULL CRITERIA AND EXCEPTIONS FOR INSPECTION REQUIREMENTS.

**DEFINITIONS:**

- SPECIAL INSPECTION, PERIODIC: A PART-TIME OR INTERMITTENT OBSERVATION WORK BEING PERFORMED REQUIRING A PRESENCE WHEN THE WORK IS BEING PERFORMED AND AFTER COMPLETION OF THE WORK. PRESENCE AT THE JOB SITE SHALL BE WEEKLY AT MINIMUM OR GREATER AS REQUESTED BY THE OWNER.
- SPECIAL INSPECTION, CONTINUOUS: A FULL-TIME OBSERVATION OF WORK REQUIRING CONTINUOUS JOBSITE PRESENCE WHEN AND WHERE THE WORK IS BEING PERFORMED.

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD <sup>a</sup>	IBC REFERENCE
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT	—	X	ACI 318: Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
2. REINFORCING BAR WELDING: A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706; B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16" ; AND C. INSPECT ALL OTHER WELDS.	—	X	— AWS D1.4 ACI 318: 26.6.4	—
3. INSPECT ANCHORS CAST IN CONCRETE.	—	X	ACI 318: 17.8.2	—
4. INSPECTING ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS: <sup>b</sup> A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATION TO RESIST SUSTAINED TENSION LOADS. B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A.	X	X	— ACI 318: 17.8.2.4 ACI 318: 17.8.2	—
5. VERIFY USE OF REQUIRED DESIGN MIX.	—	X	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2 1908.2, 1908.3
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TEST, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	—	ASTM C172 ACI 318: 26.5, 26.12 ACI 318: 26.5, 26.12	1908.10
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	—	ACI 318: 26.5	1908.6, 1908.7, 1908.8
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	—	X	ACI 318: 26.5.3-26.5.5	1908.9
9. INSPECT PRESTRESSED CONCRETE FOR: A. APPLICATION OF PRESTRESSING FORCES; AND B. GROUTING OF BONDED PRESTRESSING TENDONS.	X	—	ACI 318: 26.10	—
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	—	X	ACI 318: 26.9	—
11. VERIFY 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.	—	X	ACI 318: 26.11.2	—
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	—	X	ACI 318: 26.11.2(b)	—

FOR S1: 1 INCH = 25.4mm

- WHERE APPLICABLE, SEE SECTION 1705.12. SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE.
- SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI318, OR OTHER OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.

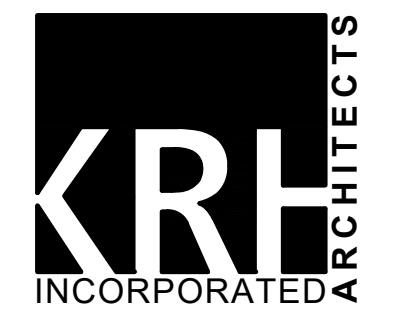
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	—	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	—	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	—	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	—
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	—	X

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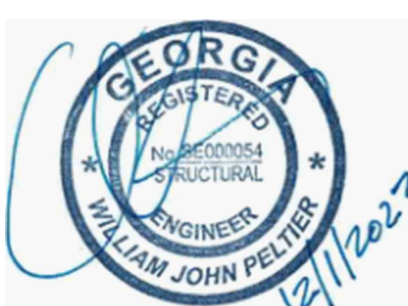
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A NEW BUILDING FOR:  
**DALTON POLICE DEPARTMENT**  
WHITFIELD COUNTY  
DALTON, GA 30720



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GENERAL NOTES

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**SO.2**

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TABLE 1705.2.3 REQUIRED SPECIAL INSPECTIONS OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS			
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD <sup>a</sup>
1. INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS.			
A. END CONNECTIONS - WELDING OR BOLTED.	—	X	SJI SPECIFICATIONS LISTED IN SECTION 2207.1.
B. BRIDGING - HORIZONTAL OR DIAGONAL.	—	—	—
1. STANDARD BRIDGING.	—	X	SJI SPECIFICATIONS LISTED IN SECTION 2207.1.
2. BRIDGING THAT DIFFERES FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1.	—	X	—

REQUIRED VERIFICATION AND INSPECTION OF STRUCTURAL STEEL CONSTRUCTION (PURSUANT TO AISC 360-16 QUALITY CONTROL AND QUALITY ASSURANCE - CHAPTER N)					
INSPECTIONS TASKS PRIOR TO WELDING	QA		QA		REFERENCED STANDARD
	CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC	
WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS		X	X		AISC 360-10 TABLE N5.4-1
WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	X		X		
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	X		X		
MATERIAL IDENTIFICATION (TYPE/GRADE)		X		X	
WELDER IDENTIFICATION SYSTEM		X		X	
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) <ul style="list-style-type: none"> <li>• JOINT PREPARATIONS</li> <li>• DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE BEVEL)</li> <li>• CLEANLINESS (CONDITION OF STEEL SURFACE)</li> <li>• TACKING (TACK WELD QUALITY AND LOCATION)</li> <li>• BACKING TYPE AND FIT (IF APPLICABLE)</li> </ul>		X		X	
FIT-UP OF GJP GROOVE WELDS OF HSS T-, Y-, AND K- JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY) <ul style="list-style-type: none"> <li>• JOINT PREPARATIONS</li> <li>• DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE BEVEL)</li> <li>• CLEANLINESS (CONDITION OF STEEL SURFACE)</li> <li>• TACKING (TACK WELD QUALITY AND LOCATION)</li> </ul>		X	X		
CONFIGURATION AND FINISH OF ACCESS HOLES		X		X	
FIT-UP OF FILLET WELDS <ul style="list-style-type: none"> <li>• DIMENSIONS (ALIGNMENT, GAPS AT ROOT)</li> <li>• CLEANLINESS (CONDITION OF STEEL SURFACE)</li> <li>• TACKING (TACK WELD QUALITY AND LOCATION)</li> </ul>		X		X	
CHECK WELDING EQUIPMENT			X		
THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE.					
INSPECTIONS TASKS DURING WELDING	QA		QA		REFERENCED STANDARD
	CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC	
CONTROL AND HANDLING OF WELDING CONSUMABLES <ul style="list-style-type: none"> <li>• PACKAGING</li> <li>• EXPOSURE CONTROL</li> </ul>		X		X	AISC 360-10 TABLE N5.4-2
NO WELDING OVER CRACKED TACK WELDS		X		X	
ENVIRONMENTAL CONDITIONS <ul style="list-style-type: none"> <li>• WIND SPEED WITHIN LIMITS</li> <li>• PRECIPITATION AND TEMPERATURE</li> </ul>		X		X	
WPS FOLLOWED <ul style="list-style-type: none"> <li>• SETTINGS ON WELDING EQUIPMENT</li> <li>• TRAVEL SPEED</li> <li>• SELECTED WELDING MATERIALS</li> <li>• SHIELDING GAS TYPE/FLOW RATE</li> <li>• PRE-HEAT APPLIED</li> <li>• INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.)</li> <li>• PROPER POSITION (F, V, H, OH)</li> </ul>		X		X	
WELDING TECHNIQUES <ul style="list-style-type: none"> <li>• INTERPASS AND FINAL CLEANING</li> <li>• EACH PASS WITHIN PROFILE LIMITATIONS</li> <li>• EACH PASS MEETS QUALITY REQUIREMENTS</li> </ul>		X		X	
PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	X		X		
INSPECTIONS TASKS AFTER WELDING	QA		QA		REFERENCED STANDARD
	CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC	
WELDS CLEANED		X		X	AISC 360-10 TABLE N5.4-3
SIZE, LENGTH AND LOCATION OF WELDS	X		X		
WELDS MEET VISUAL ACCEPTANCE CRITERIA <ul style="list-style-type: none"> <li>• CRACK PROHIBITION</li> <li>• WELD/BASE-METAL FUSION</li> <li>• CRATER CROSS SECTION</li> <li>• WELD PROFILES</li> <li>• WELD SIZE</li> <li>• UNDERCUT</li> <li>• POROSITY</li> </ul>	X		X		
ARC STRIKES	X		X		
K-AREA <sup>[a]</sup>	X		X		
WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES <sup>[b]</sup>	X		X		
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	X		X		
REPAIR ACTIVITIES	X		X		
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	X		X		
NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR		X		X	

[a] WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 IN. (75mm) OF THE WELD.  
[b] AFTER ROLLED HEAVY SHAPES (SEE SECTION A3.10) AND BUILT-UP HEAVY SHAPES (SEE SECTION A3.10) ARE WELDED, VISUALLY INSPECT THE WELD ACCESS HOLE FOR CRACKS.

REQUIRED VERIFICATION AND INSPECTION OF STRUCTURAL STEEL CONSTRUCTION (PURSUANT TO AISC 360-16 QUALITY CONTROL AND QUALITY ASSURANCE - CHAPTER N)					
INSPECTIONS TASKS PRIOR TO BOLTING	QA		QA		REFERENCED STANDARD
	CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC	
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	X			X	AISC 360-10 TABLE N5.6-1
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS		X		X	
CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)		X		X	
CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL		X		X	
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FINISH SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS		X		X	
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED		X	X		
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS		X		X	
INSPECTIONS TASKS DURING BOLTING	QA		QA		REFERENCED STANDARD
	CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC	
FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS AND NUTS ARE POSITIONED AS REQUIRED		X		X	AISC 360-10 TABLE N5.6-2
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION		X		X	
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING		X		X	
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES		X		X	
INSPECTIONS TASKS AFTER BOLTING	QA		QA		REFERENCED STANDARD
	CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC	
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	X		X		AISC 360-10 TABLE N5.6-3

REQUIRED VERIFICATION AND INSPECTION OF MASONRY CONSTR (LEVEL 1 AND 2)			
INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODIC DURING TASK LISTED	NOTES
MINIMUM VERIFICATION REQUIREMENTS			
1. PRIOR TO CONSTRUCTION, VERIFICATION OF COMPLIANCE OF SUBMITTALS		PRIOR TO CONSTRUCTION	SUBMITTAL REVIEW
2. PRIOR TO CONSTRUCTION - VERIFICATION OF FM		PRIOR TO CONSTRUCTION	TESTING BY UNIT STRENGTH METHOD OR PRISM TEST METHOD
3. DURING CONSTRUCTION, VERIFICATION OF SLUMP, FLOW AND VISUAL STABILITY INDEX (VSI) WHEN SELF-CONSOLIDATING GROUT IS DELIVERED TO PROJECT SITE.		X	TESTING BY UNIT STRENGTH METHOD OR PRISM TEST METHOD
MINIMUM SPECIAL INSPECTION REQUIREMENTS			
1. AS MASONRY CONSTRUCTION BEGINS VERIFY THE FOLLOWING:			
A. PROPORTIONS OF THE SITE PREPARED MORTAR		X	FIELD INSPECTION
B. GRADE, TYPE, AND SIZE OF REINFORCEMENT, ANCHOR BOLTS AND ANCHORAGES.		X	FIELD INSPECTION
C. SAMPLE PANEL CONSTRUCTION.	X		FIELD INSPECTION
2. PRIOR TO GROUTING VERIFY THAT THE FOLLOWING ARE IN:			
A. GROUT SPACE	X		FIELD INSPECTION
B. PLACEMENT OF REINFORCEMENT, CONNECTORS AND ANCHOR BOLTS.	X		FIELD INSPECTION
C. PROPORTIONS OF SITE PREPARED GROUT.		X	FIELD INSPECTION
3. VERIFY THE FOLLOWING DURING CONSTRUCTION:			
A. MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS		X	FIELD INSPECTION
B. PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION		X	FIELD INSPECTION
C. SIZE AND LOCATION OF STRUCTURAL MEMBERS		X	FIELD INSPECTION
D. TYPE, SIZE, LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION.	X		FIELD INSPECTION
E. WELDING OF REINFORCEMENT			NOT PERMITTED
F. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40° F) OR HOT WEATHER (TEMPERATURE ABOVE 90° F)		X	FIELD INSPECTION
G. PLACEMENT OF GROUT	X		FIELD INSPECTION
4. OBSERVE PREPARATION OF GROUT SPECIMENS MORTAR SPECIMENS, AND/OR PRISMS	X		FIELD INSPECTION

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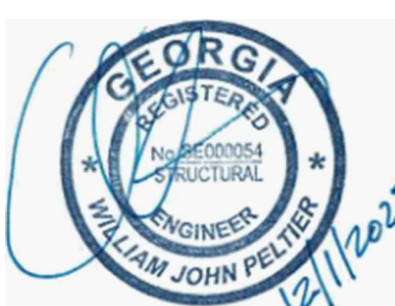
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A NEW BUILDING FOR:  
DALTON POLICE DEPARTMENT  
WHITFIELD COUNTY  
DALTON, GA 30720



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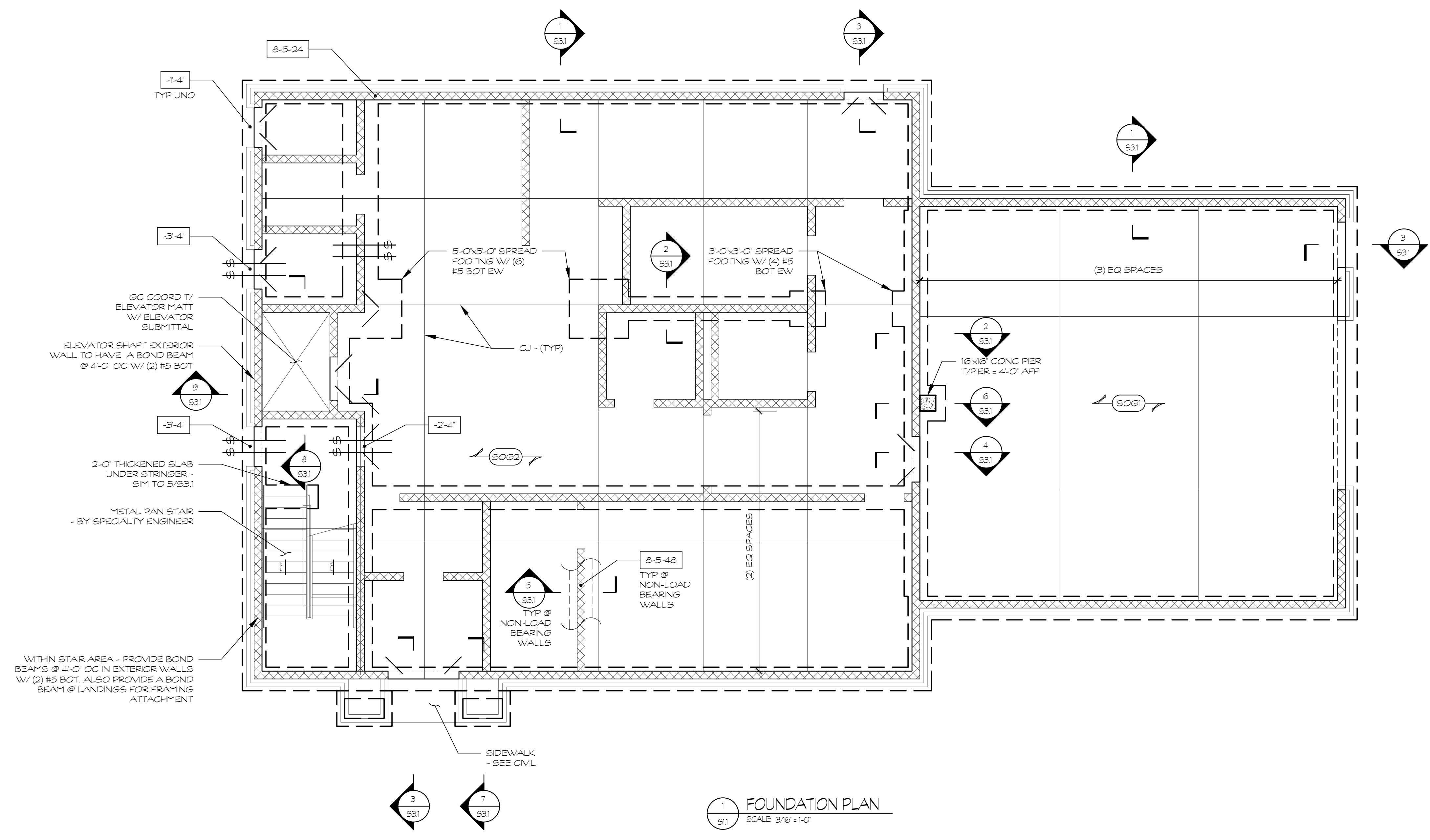
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A NEW BUILDING FOR:  
**DALTON POLICE DEPARTMENT**  
 WHITFIELD COUNTY  
 DALTON, GA 30720



- TYPICAL & FOUNDATION NOTES**
- SLAB ON GRADE SHALL BE 6" CONC SLAB (4000 PS) ON VAPOR RETARDER ON 4" GAB (GRADED AGGREGATE BASE) W/ (1) LAYER 6x6-W2 N21 W/WF 1" FROM TOP OF SLAB. UNO ON PLAN. ALL SLOPES TO DRAINS SHALL BE ACCOMMODATED BY SLOPING BOTTOM AND TOP OF SLAB AT THE SAME RATE (SEE A/S3.2). SEE ARCH DRAWINGS FOR FFE.
  - SLAB ON GRADE SHALL BE 4" CONC SLAB (3000 PS) ON 10 MIL (MIN) VAPOR RETARDER ON 4" GAB (GRADED AGGREGATE BASE) W/ (1) LAYER 6x6-W2 N21 W/WF 1" FROM TOP OF SLAB. UNO ON PLAN. ALL SLOPES TO DRAINS SHALL BE ACCOMMODATED BY SLOPING BOTTOM AND TOP OF SLAB AT THE SAME RATE (SEE A/S3.2). SEE ARCH DRAWINGS FOR FFE.
  - "CJ"

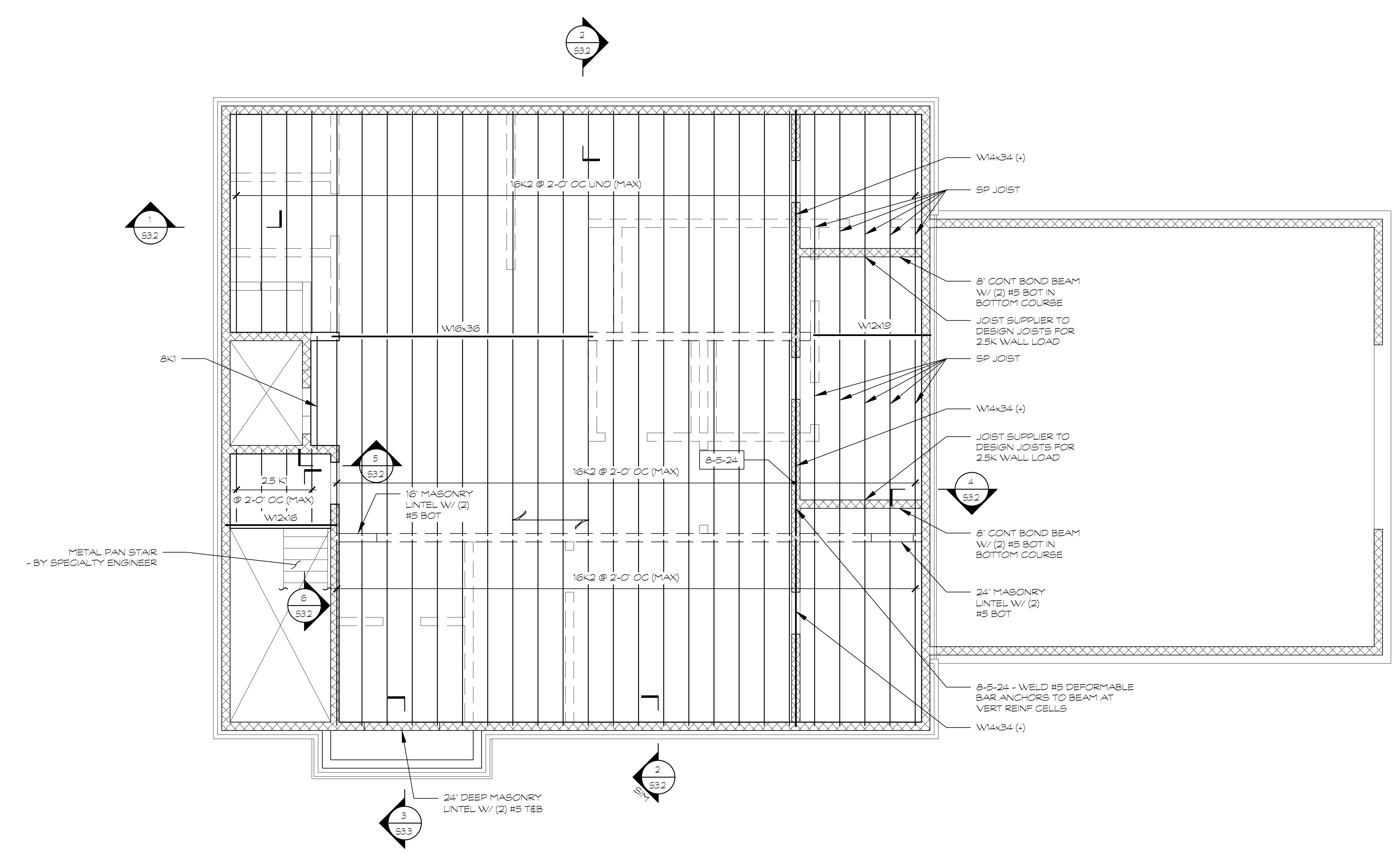
INDICATES CONTROL/CONSTRUCTION JOINTS IN SLAB. SEE GENERAL NOTES FOR MORE INFORMATION REGARDING THE LAYOUT OF JOINTS. PROPOSED JOINT LAYOUT SHALL BE SUBMITTED AS A SHOP DRAWING FOR ARCHITECT APPROVAL PRIOR TO SLAB PLACEMENT - SEE SHEET S4.1 AND THE PROJECT SPECIFICATIONS FOR MORE INFORMATION.
  - "-X-XX"

INDICATES TOP OF FOOTING ELEVATION.
  - INDICATES FLOOR DRAIN. COORDINATE EXACT LOCATION AND SLOPING REQUIREMENTS W/ ARCHITECTURAL AND PLUMBING DRAWINGS. SEE A/S3.2.
  - INDICATES STEP/TRANSITION @ CMU WALL FOOTING. PROVIDE STEP BARS FOR CONTINUOUS REINFORCING AT TRANSITION. SEE 2/S4.1.
  - INDICATES PARTIALLY GROUTED, LOAD BEARING MASONRY SHEARWALL. SEE S4.1 FOR TYPICAL DETAILS.
  - INDICATES CMU WALL REINFORCEMENT. ALL REINFORCEMENT TO BE CENTERED IN CELLS, UNO. AT MINIMUM, ALL REINFORCED CELLS SHALL BE GROUTED SOLID. ALL MASONRY WALLS SHALL HAVE LADDER TYPE HORIZONTAL REINFORCING (MIN 3/16" Ø SIDE RODS) AT 8" OC, UNO.

BAR SPACING (INCHES)  
BAR SIZE  
NOMINAL WALL SIZE (INCHES)

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1 2ND FLOOR FRAMING PLAN  
S1.2 SCALE 3/16" = 1'-0"

2ND FLOOR FRAMING NOTES:

1. JOIST BEARING ELEVATION = +13'-6 1/2"
2. INDICATES DIRECTION TO SPAN METAL DECK 9/16" DEEP 28 GAGE GALVANIZED NON-COMPOSITE METAL FLOOR DECK 2 7/16" LIGHT WEIGHT CONCRETE TOPPING (3" TOTAL THICKNESS) (1) LAYER 6x6x 1/4"x1/4" WWF PLACED 1" FROM TOP OF SLAB ATTACH AT SUPPORTS UTILIZING 5/8" Ø PUDDLE WELDS IN A 30/4 PATTERN FASTEN SIDELAPS WITH (2) EVENLY SPACED #10 TEK SCREWS ATTACH AT PERIMETER UTILIZING 5/8" Ø PUDDLE WELDS AT 6" OC.
3. METAL DECK SHALL BE INSTALLED IN (3) SPAN LENGTHS MINIMUM.

DEAD LOAD

CONCRETE SLAB AND DECK	27.0 PSF
CEILING AND LIGHTS	2.0 PSF
MECHANICAL	3.0 PSF
MISC	3.0 PSF
<b>TOTAL</b>	<b>35.0 PSF</b>

LIVE LOAD

STORAGE	125 PSF
MECHANICAL ROOM	125 PSF

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A NEW BUILDING FOR:  
**DALTON POLICE DEPARTMENT**  
WHITFIELD COUNTY  
DALTON, GA 30720

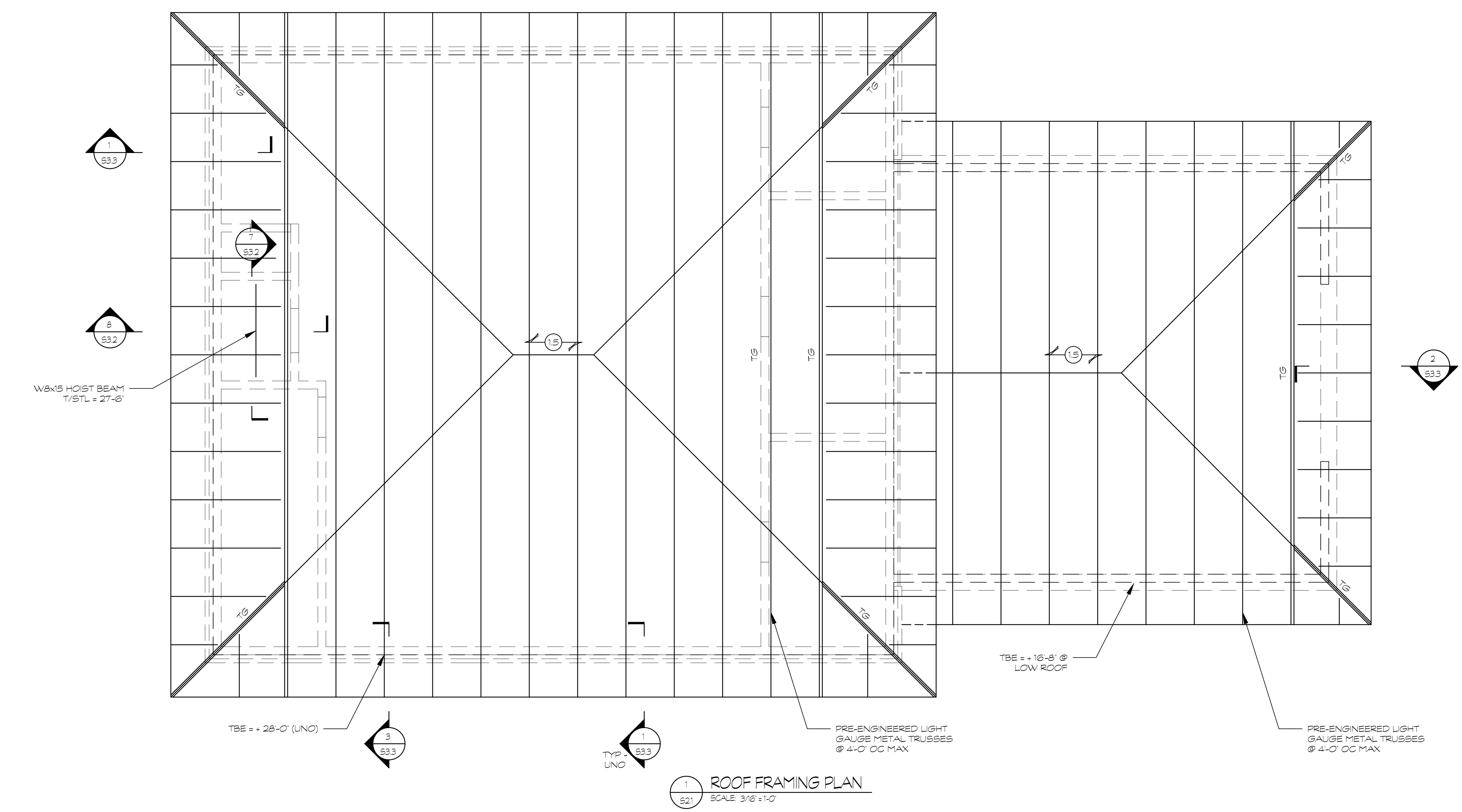


SHEET INDEX

ROOF  
FRAMING  
PLAN

SHEET INDEX

S2.1



1 ROOF FRAMING PLAN  
SCALE 3/16" = 1'-0"

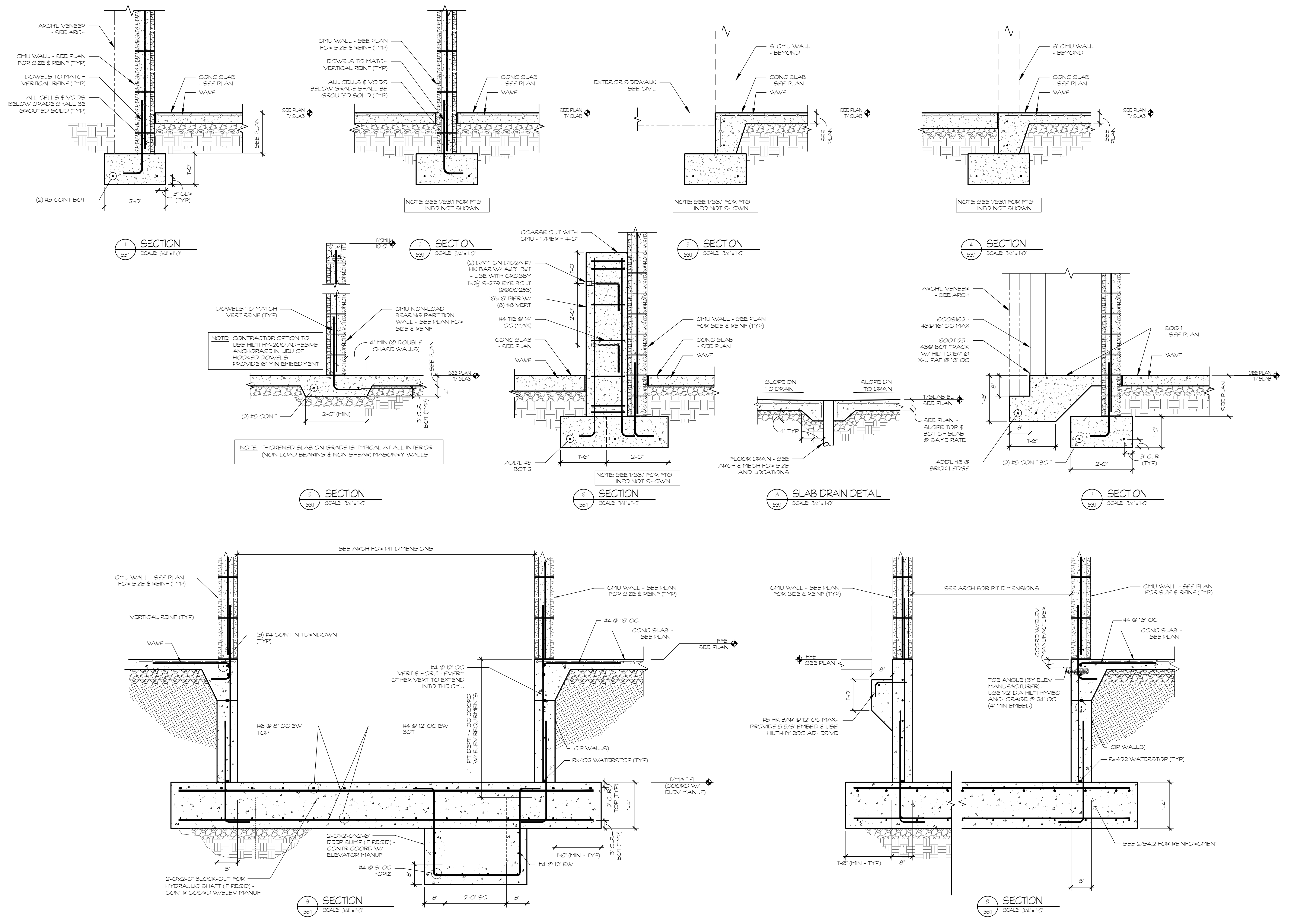
TYPICAL ROOF FRAMING NOTES:

1. INDICATES SPAN OF 1 1/2'. 22 GA WIDE RIB METAL ROOF DECK, FASTEN TO ALL SUPPORTS WITH #12 TEK SCREWS ON A 36/4 PATTERN, FASTEN SIDE LAPS W/2) EVENLY SPACED #10 TEK SCREWS BETWEEN SUPPORTS, FASTEN AT PERIMETER WITH #12 TEK SCREWS AT 6' OC.
2. 'TBE' INDICATES TRUSS BEARING ELEVATION ABOVE FFE.
3. T/STL EL = TOP OF STEEL ELEVATION ABOVE FFE. T/STL EL AS SHOWN IS A NOMINAL ELEVATION. CONTRACTOR SHALL DETERMINE PRECISE T/STL ELEVATION BY COORDINATING WITH ARCHITECTURAL HEAD ELEVATIONS.
4. LIGHT GAGE METAL TRUSS MANUFACTURER SHALL CONSIDER THE BOTTOM CHORDS OF METAL TRUSSES UNBRACED IN THE TRUSS DESIGN, OR PROVIDE BOTTOM CHORD BRACING AS REQUIRED FOR INDICATED ROOF LOADS.

ROOF LOADS:

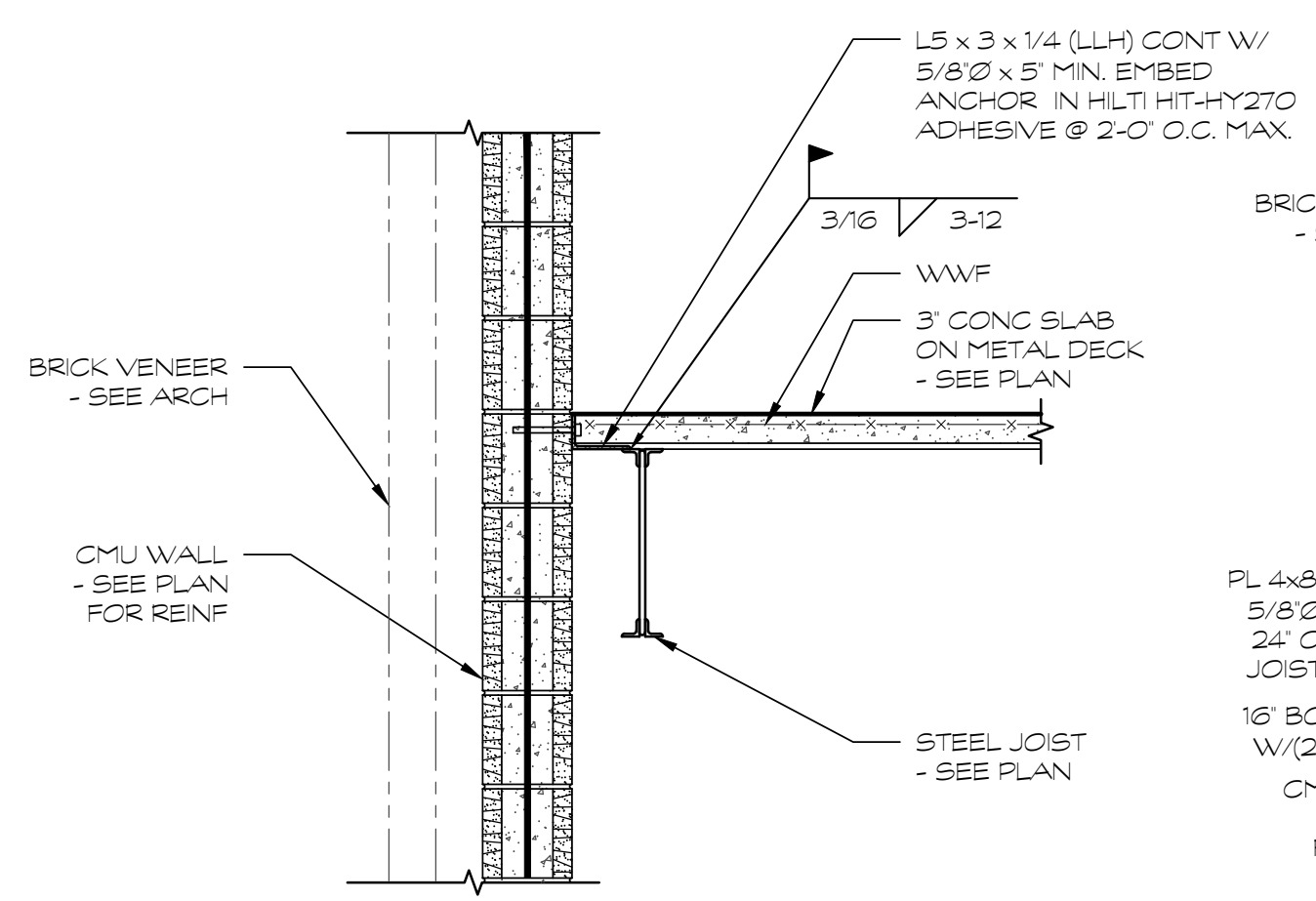
- DEAD LOAD: 10 PSF (5 PSF TOP CHORD + 5 PSF BOTTOM CHORD)
- LIVE LOAD: 20 PSF (TOP CHORD ONLY)
- WIND LOAD: 10 PSF (NET UPLIFT TOP CHORD)

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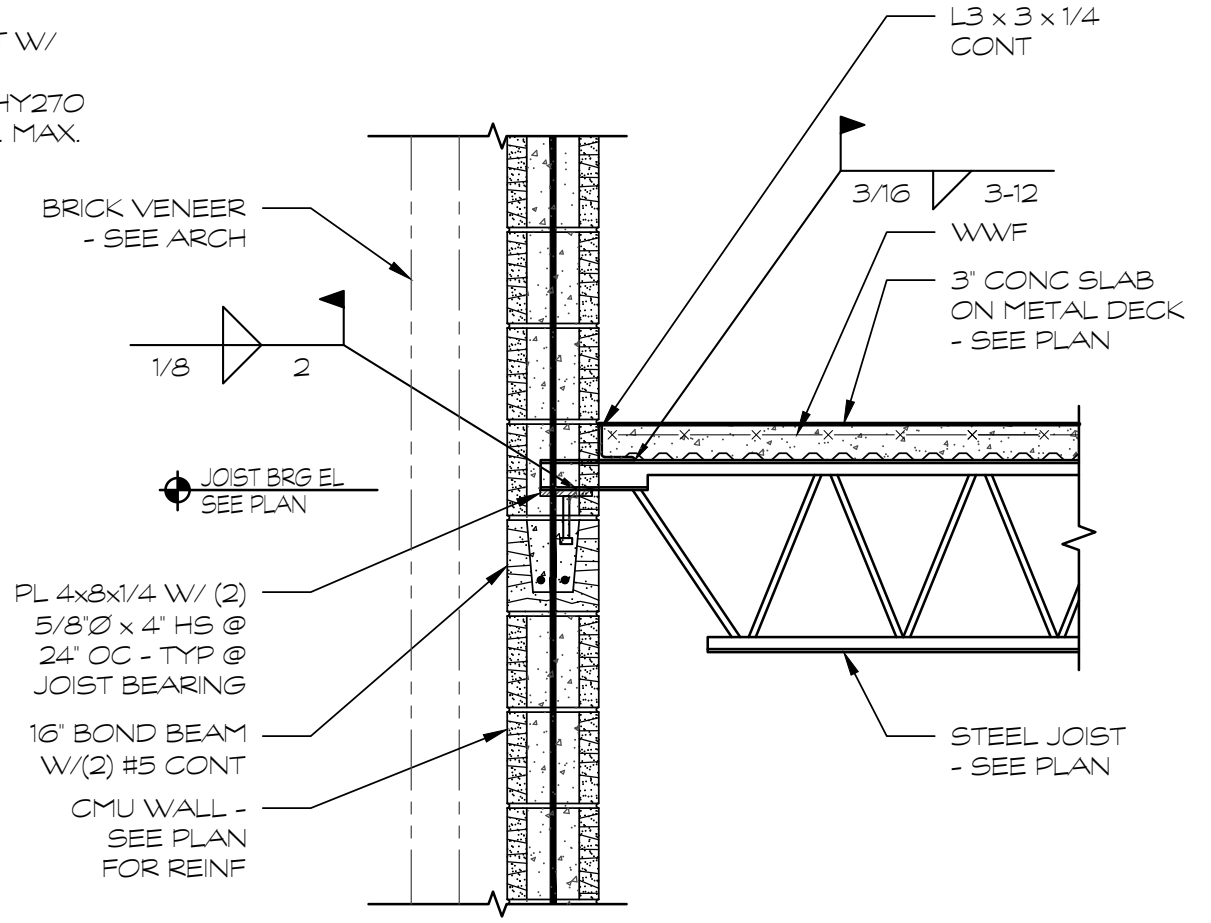


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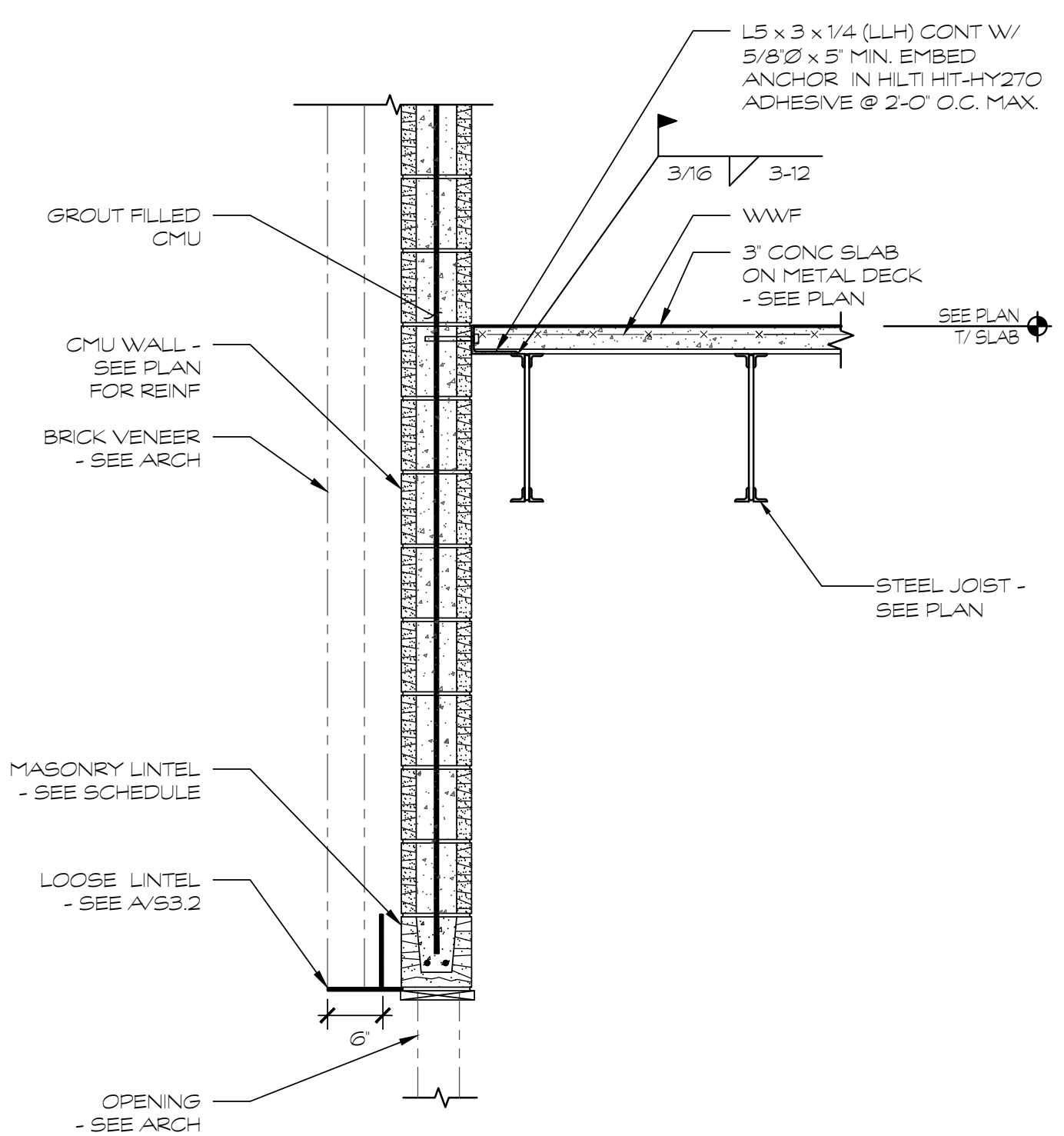
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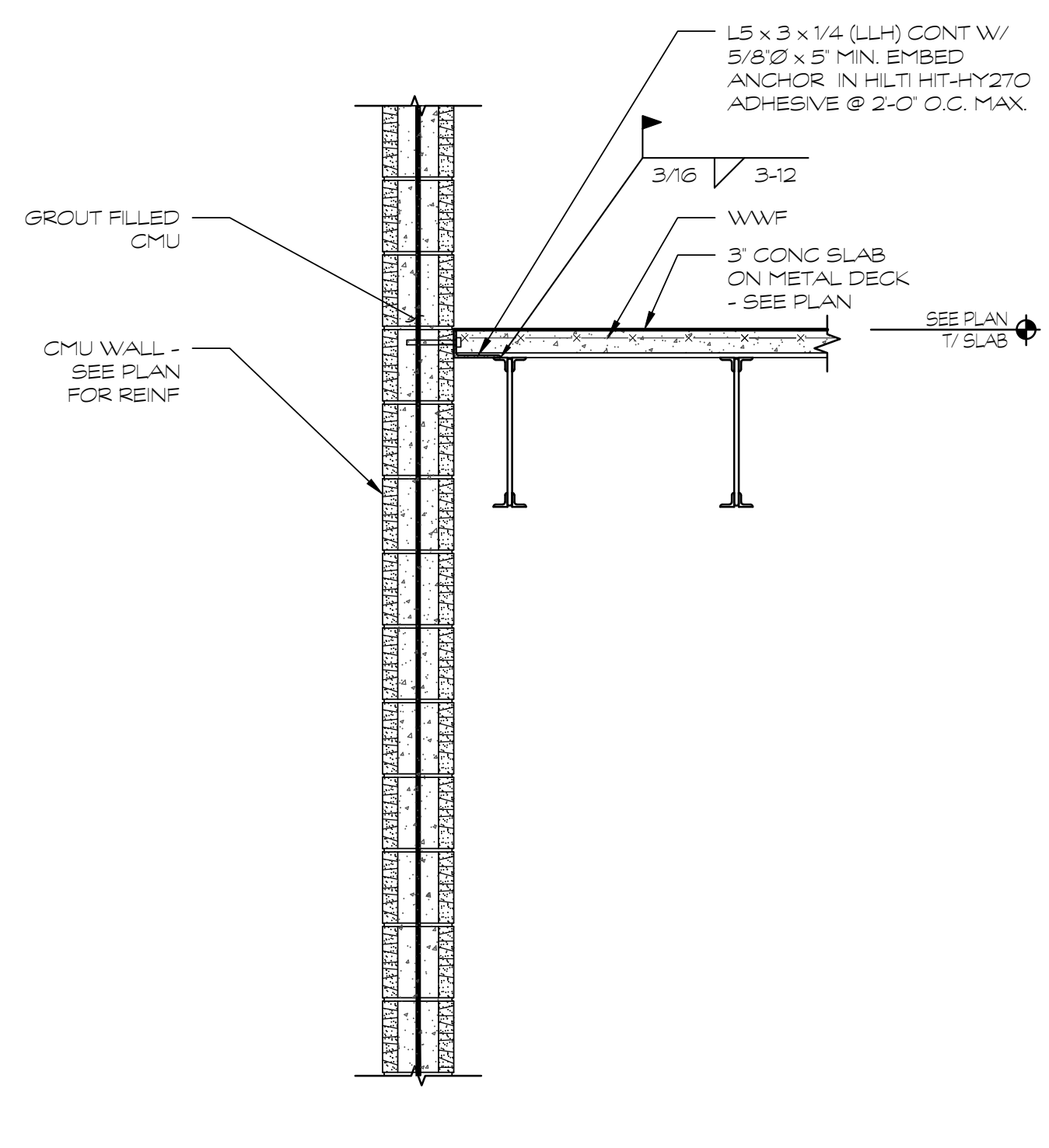
1 SECTION  
SCALE 3/4"=1'-0"



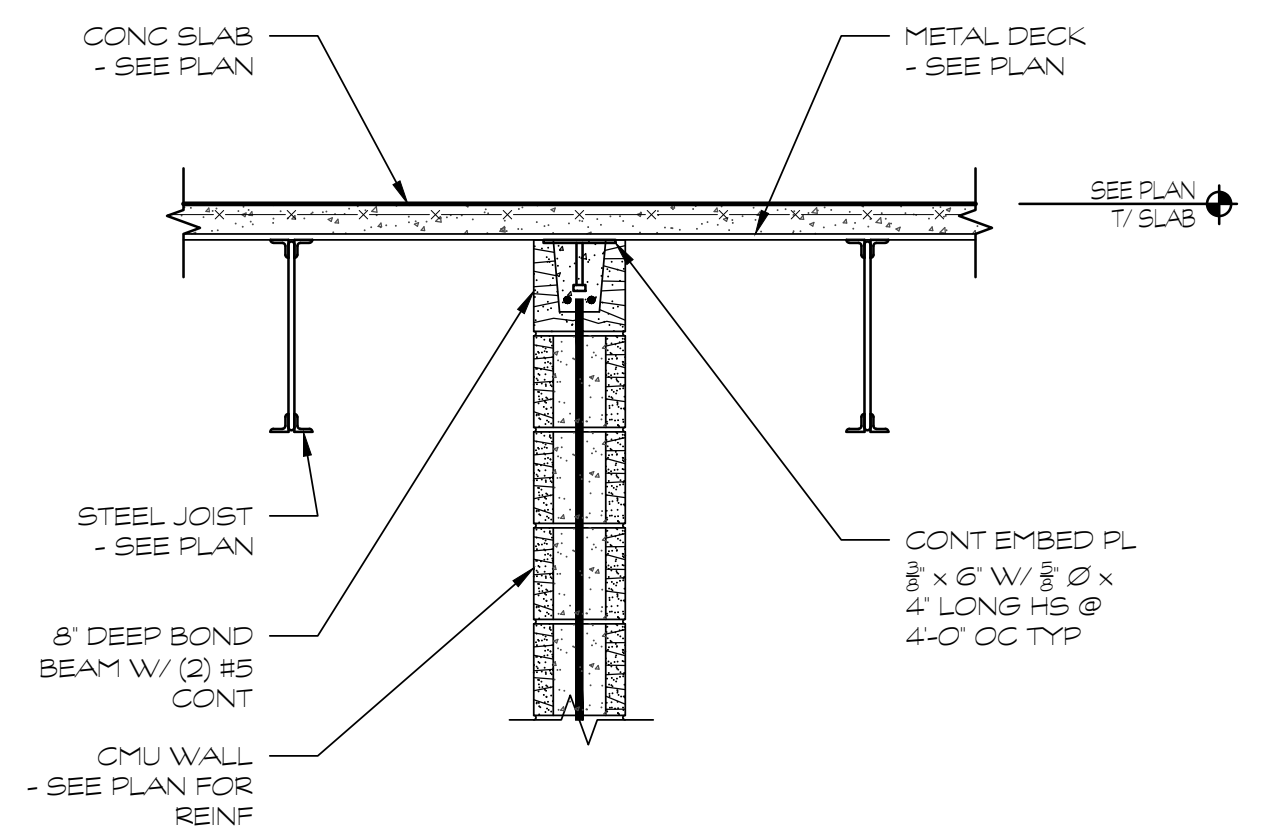
2 SECTION  
SCALE 3/4"=1'-0"



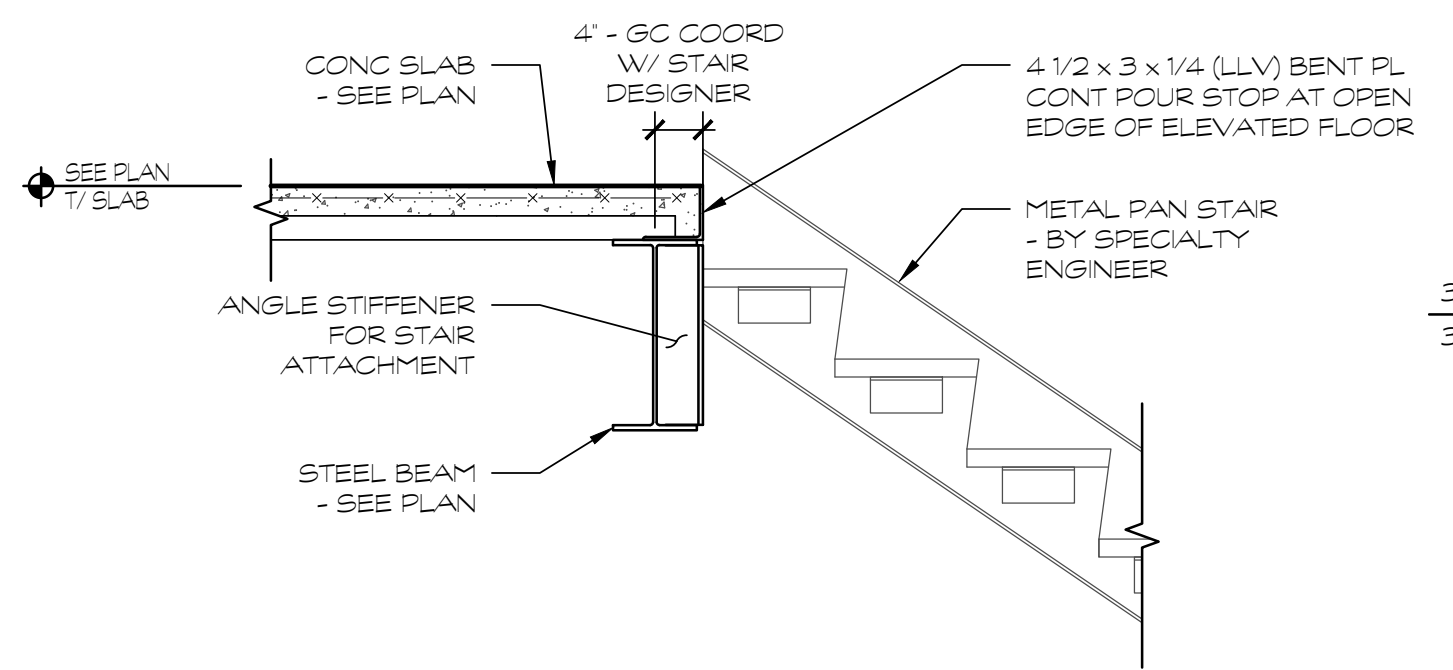
3 SECTION  
SCALE 3/4"=1'-0"



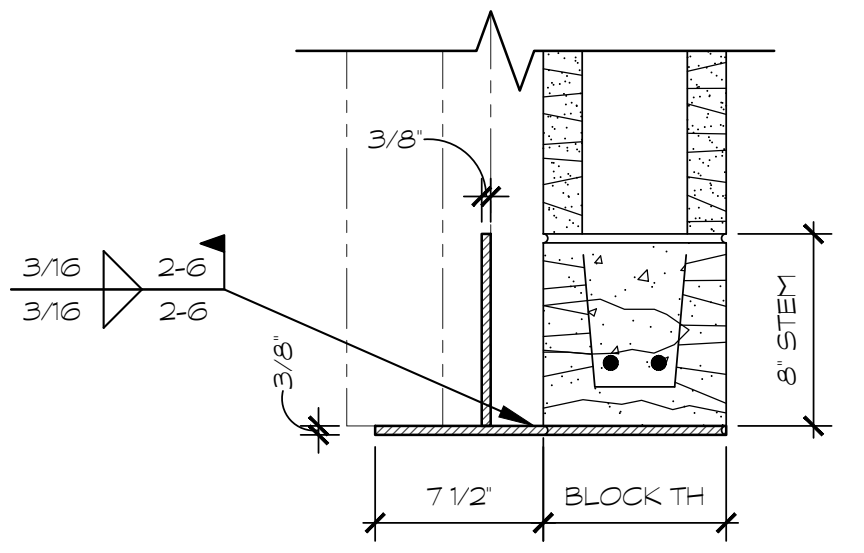
4 SECTION  
SCALE 3/4"=1'-0"



5 SECTION  
SCALE 3/4"=1'-0"

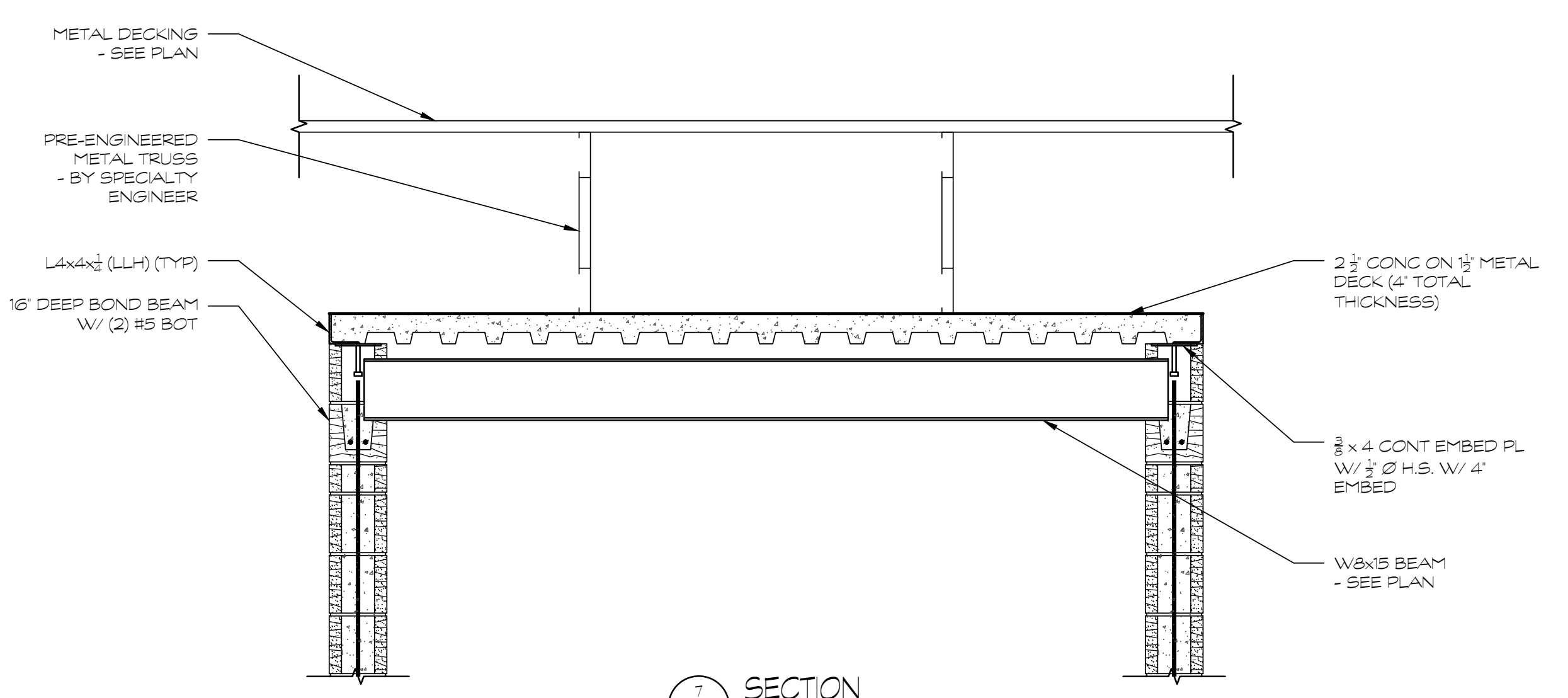


6 SECTION  
SCALE 3/4"=1'-0"

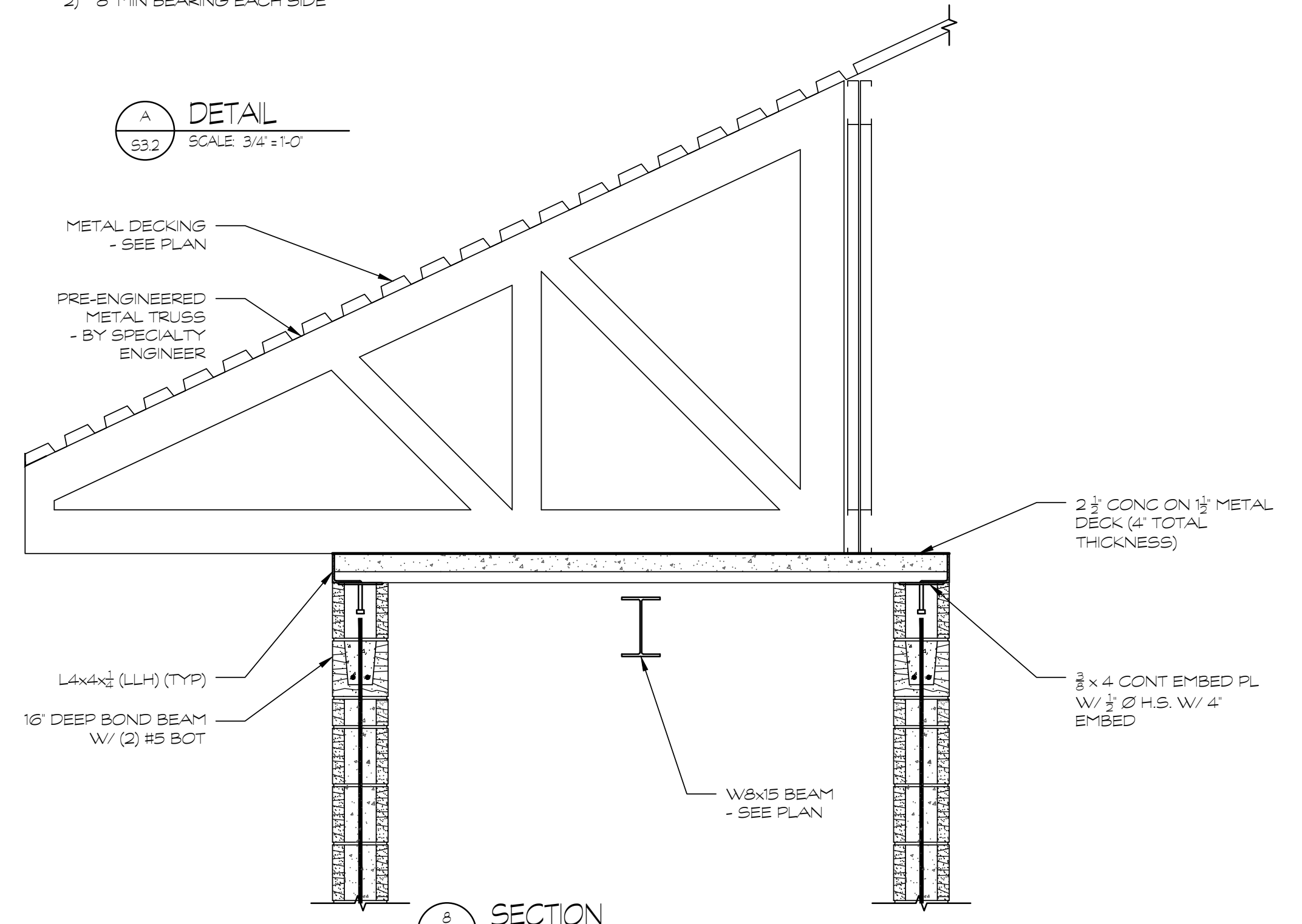


A DETAIL  
SCALE 3/4"=1'-0"

NOTES:  
1) ALL PLATES SHALL BE GALVANIZED  
2) 8' MIN BEARING EACH SIDE



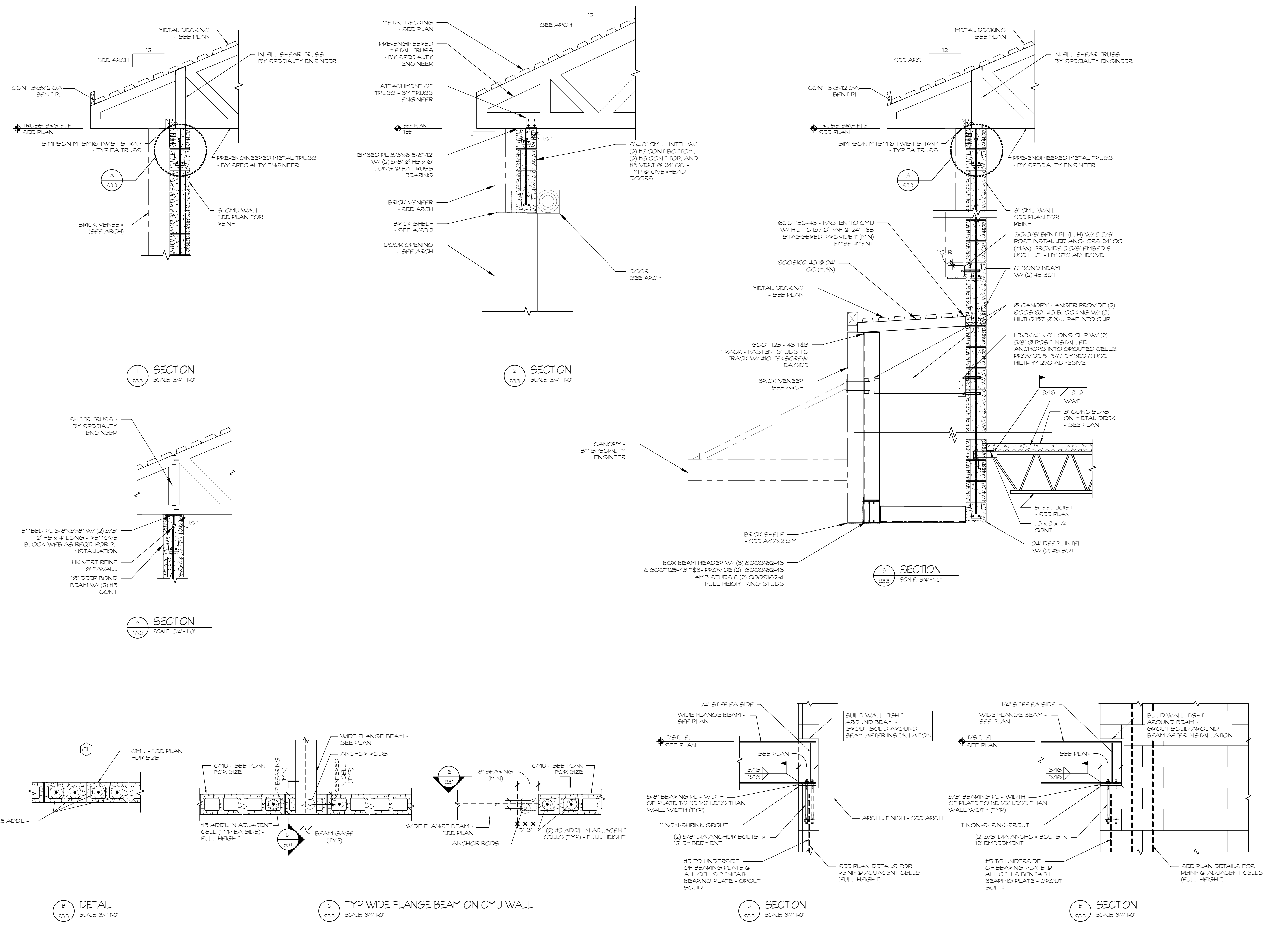
7 SECTION  
SCALE 3/4"=1'-0"



8 SECTION  
SCALE 3/4"=1'-0"



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1 SECTION  
SCALE 3/4"=1'-0"

2 SECTION  
SCALE 3/4"=1'-0"

3 SECTION  
SCALE 3/4"=1'-0"

A SECTION  
SCALE 3/4"=1'-0"

B DETAIL  
SCALE 3/4"=1'-0"

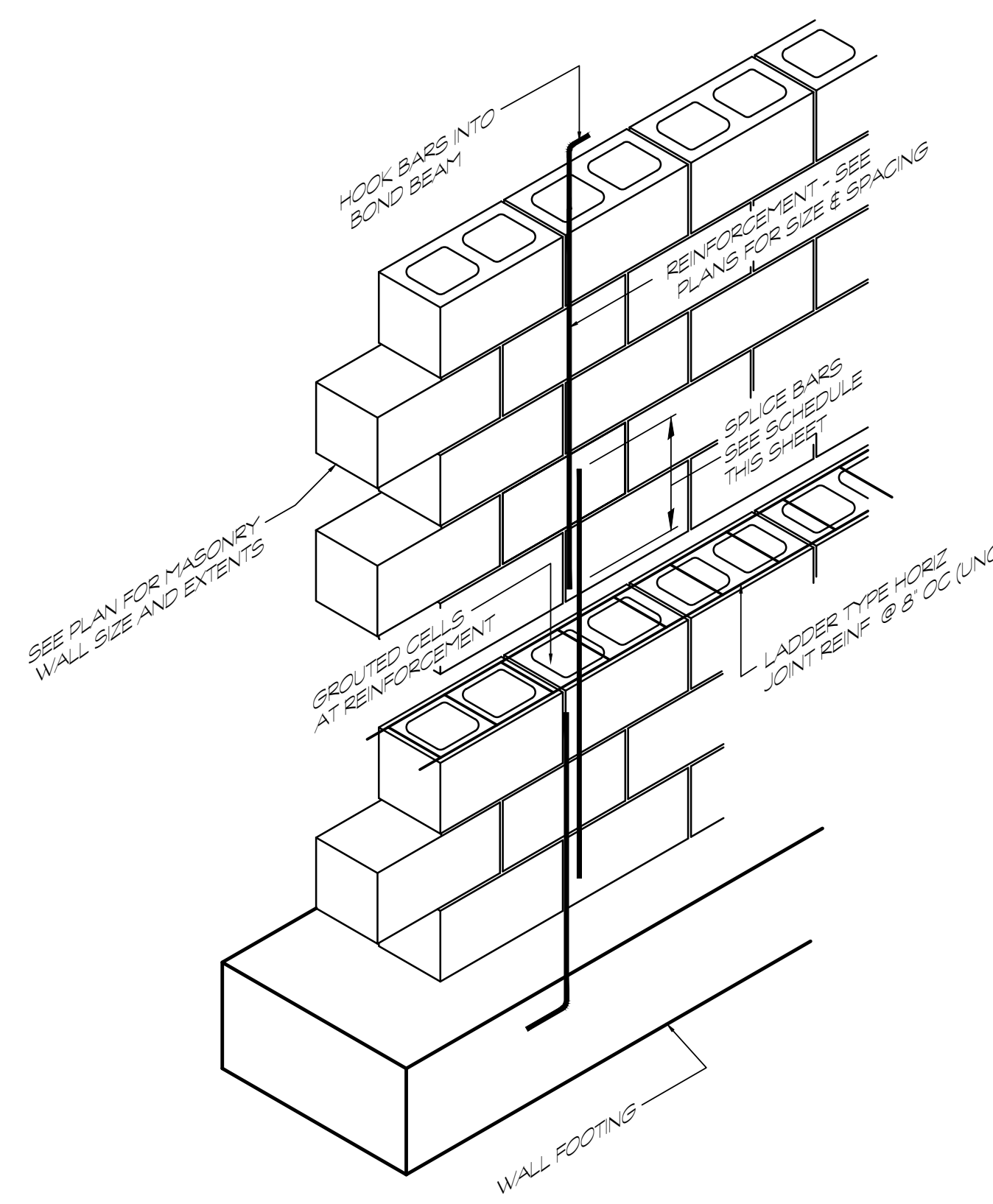
C TYP WIDE FLANGE BEAM ON CMU WALL  
SCALE 3/4"=1'-0"

D SECTION  
SCALE 3/4"=1'-0"

E SECTION  
SCALE 3/4"=1'-0"



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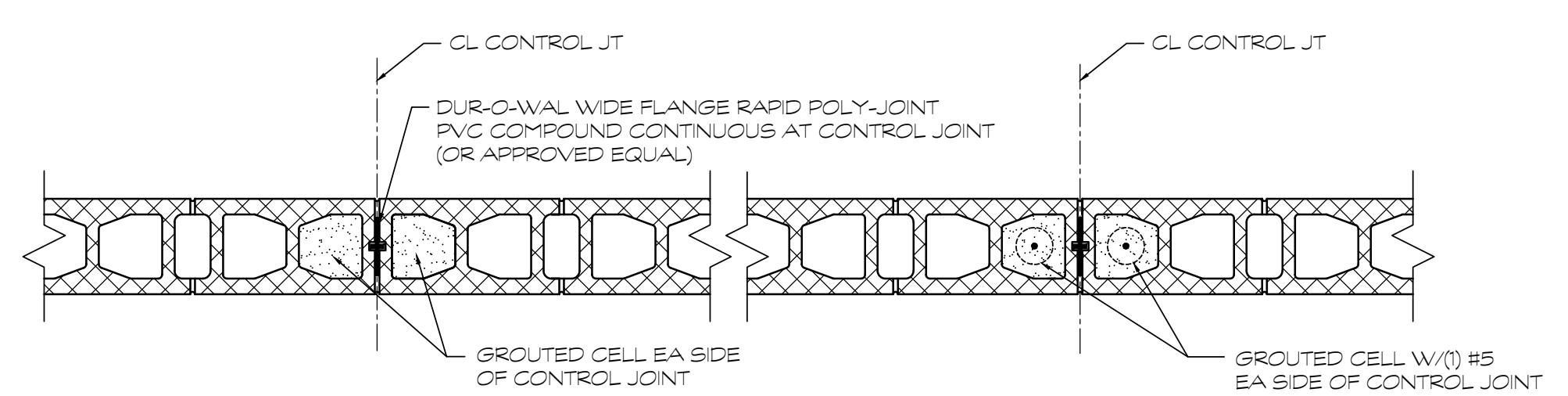
1 TYPICAL DETAIL OF LOW-LIFT REINFORCED MASONRY CONSTRUCTION  
SCALE: NTS

**REINFORCING LAP LENGTH SCHEDULE\***

BAR SIZE	LAP LENGTH
#4	21"
#5	26"
#6	43"

\* LAP LENGTHS APPLY TO 8' OR 12' CMU WITH REINFORCING CENTERED IN CELL (UNO).

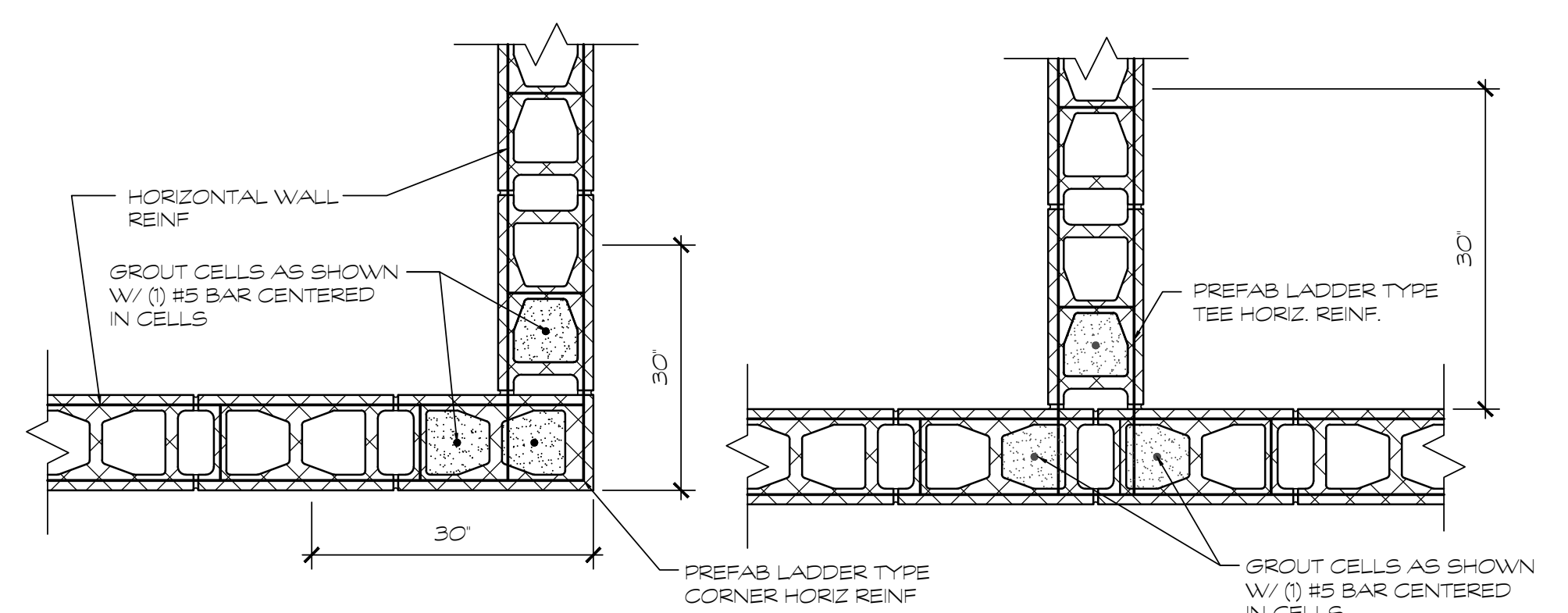
- LOW LIFT GROUTING PROCEDURE**
- CONSTRUCT WALL TO HEIGHT OF 5'-0". ALLOW MORTAR TO SET SUFFICIENTLY TO WITHSTAND GROUT PRESSURE.
  - INSPECT UNITS FOR ALIGNMENT. CLEAN OUT CELLS TO BE FILLED.
  - FILL CELLS TO 1 1/2" BELOW TOP COURSE.
  - DELAY 3 TO 5 MINUTES PRIOR TO CONSOLIDATING TO ALLOW WATER TO BE ABSORBED BY MASONRY.



@ NON-SHEARWALL @ SHEARWALL

- NOTES:**
- SEE GENERAL NOTES FOR SPACING GUIDELINES FOR CONTROL JOINTS IN INTERIOR/EXTERIOR CMU WALLS.
  - SEE ARCH FOR EXACT LOCATIONS OF CONTROL JOINTS
  - DISCONTINUE HORIZONTAL REINFORCING AT CONTROL JOINT LOCATIONS

2 TYP CMU CONTROL JOINTS  
SCALE: NTS



@ CORNER @ TEE INTERSECTION

- NOTES:**
- CORNER/TEE INTERSECTION REINF. SHALL BE LAPPED WITH THE TYPICAL TRUSS TYPE HORIZ REINF. AND EXTEND A MINIMUM OF 30" IN EACH DIRECTION AT THE INTERSECTION.
  - SEE PLAN FOR SPACING OF TYPICAL HORIZ REINF.

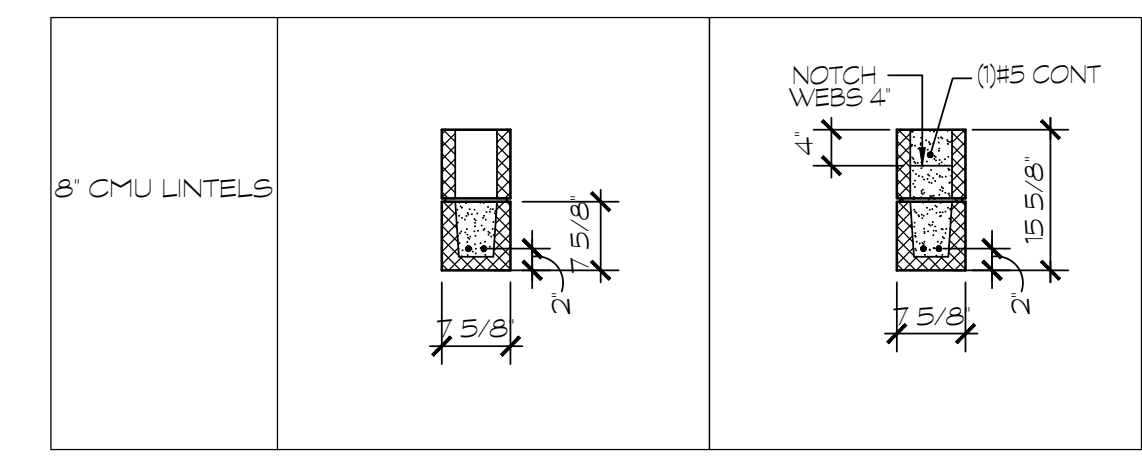
3 TYP CMU WALL CORNER/TEE INTERSECTIONS  
SCALE: NTS

**MASONRY WALL LINTEL SCHEDULE**

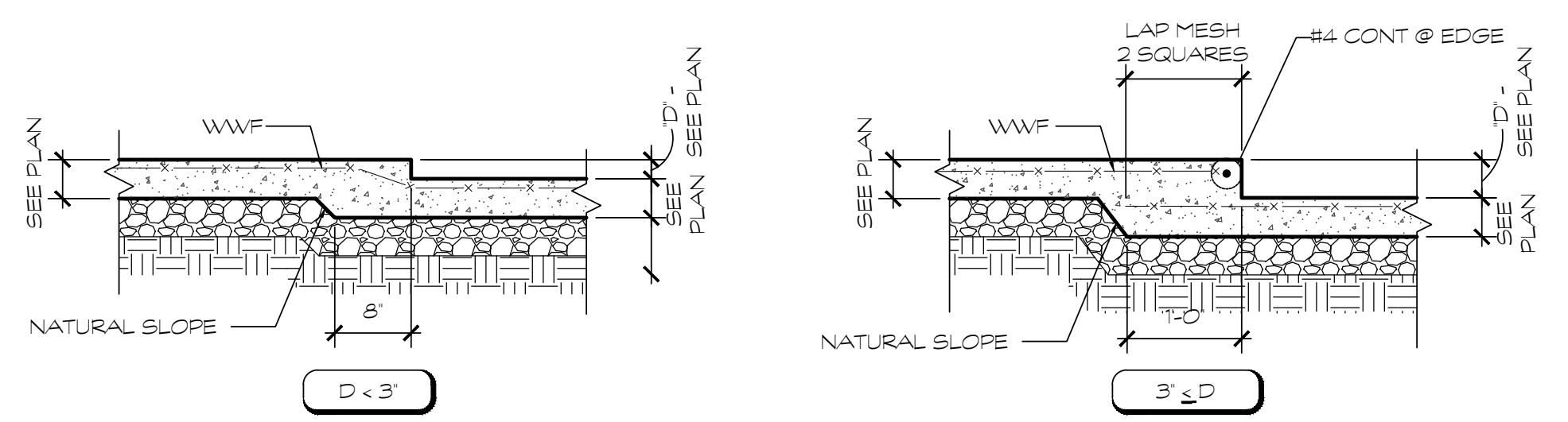
OPENING WIDTH		STEEL LINTELS	MASONRY LINTELS				
MIN.	MAX.	* STEEL FOR EACH 4' WALL THICKNESS	LINTEL DEPTH AND REINFORCING*				
			DEPTH	4' WALL	6' WALL	8' WALL	12' WALL
-	2'-0"		7 5/8"	(1) #4	(1)#4 BOTT.	(2)#5 BOTT.	(2)#5 BOTT.
2'-1"	3'-6"		7 5/8"	(1) #4	(1)#4 BOTT.	(2)#5 BOTT.	(2)#5 BOTT.
3'-7"	5'-0"		7 5/8"	(1) #4	(1)#5 BOTT.	(2)#5 BOTT.	(2)#5 BOTT.
5'-1"	6'-6"	SEE A/S3.2	15 5/8"	-	(1)#5 BOTT.	(2)#5 BOTT.	(2)#6 BOTT.
6'-7"	8'-0"		15 5/8"	-	(1)#5 BOTT.	(2)#5 BOTT.	(2)#6 BOTT.
8'-1"	10'-0"		15 5/8"	-	(2)#5 BOTT.	(2)#5 BOTT.	(2)#6 BOTT.
10'-1"	12'-0"		15 5/8"	-	(2)#5 BOTT.	(2)#5 BOTT.	(2)#6 BOTT.

- \* 8" BEARING EACH END FOR STEEL \* 8" BEARING EACH END FOR U-BLOCK
- NOTES:**
- USE EITHER STEEL LINTEL OR MASONRY LINTEL (SEE ARCH HEAD DETAILS).
  - THIS SCHEDULE TO BE USED UNLESS NOTED OTHERWISE.
  - DO NOT USE THIS SCHEDULE IF CONCENTRATED LOAD IS APPLIED TO LINTEL.
  - DO NOT USE THIS SCHEDULE IF HEIGHT OF MASONRY ABOVE OPENING IS LESS THAN HALF OF THE OPENING WIDTH.
  - ALL LOOSE LINTELS TO BE GALVANIZED

4 MASONRY WALL LINTEL SCHEDULE  
SCALE: NTS

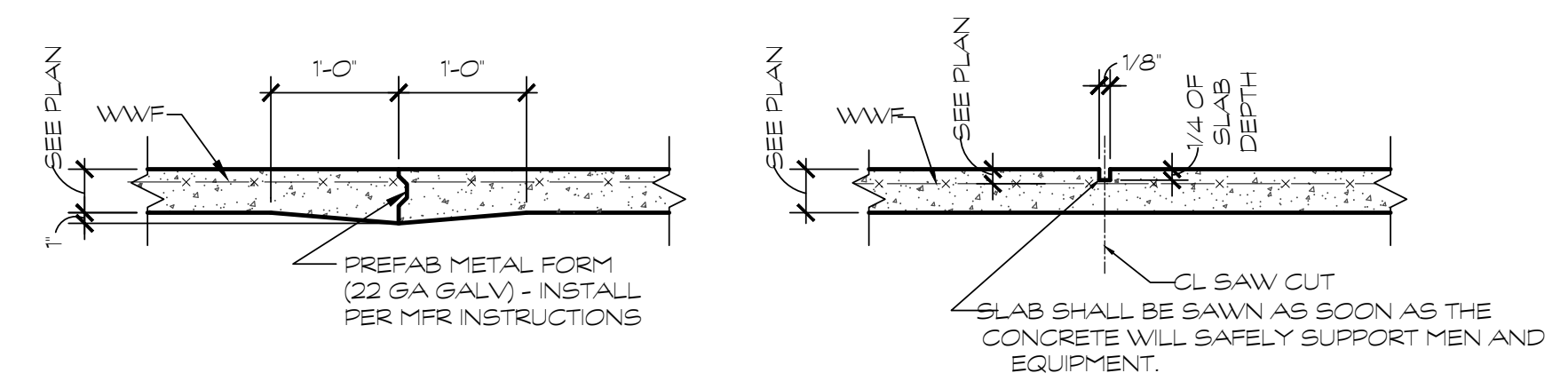


5 MASONRY LINTEL REINFORCING CONFIGURATIONS  
SCALE: NTS



- NOTE:**
- WWF TO BE POSITIONED WITHIN SLAB DEPTH W/PREFABRICATED CHAIRS.
  - COORDINATE DEPTHS AND LOCATIONS OF ALL FLOOR DEPRESSIONS WITH ARCHITECTURAL DRAWINGS.
  - PROVIDE (1) #4 x 4'-0" TOP AT INTERIOR CORNERS OF ALL DEPRESSIONS.
  - SLAB DEPRESSIONS ARE TYPICALLY SHOWN ON PLAN THIS:

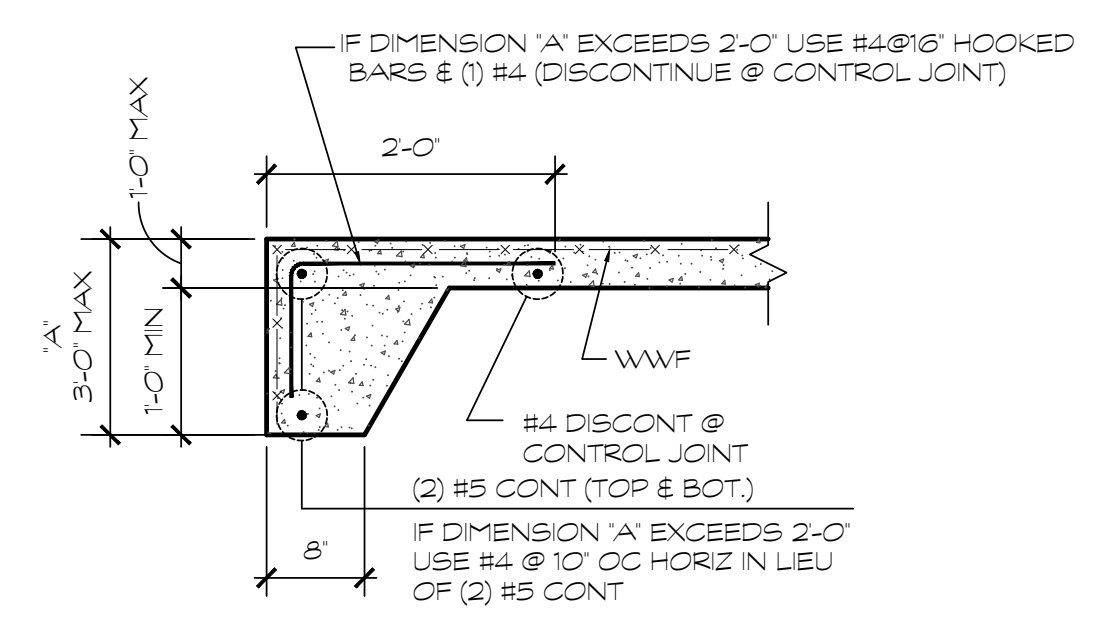
6 TYP DEPRESSED SLAB-ON-GRADE DETAILS  
SCALE: 3/4"=1'-0"



TYP CONSTRUCTION JOINTS TYP SAWED CONTROL JOINT

- NOTE:** USE CONSTRUCTION JOINT IN LIEU OF CONTROL JOINT WHENEVER A POUR STOP IS REQUIRED OR WHERE INDICATED ON THE PLAN.

7 TYP SLAB-ON-GRADE JOINT DETAILS  
SCALE: 3/4"=1'-0"

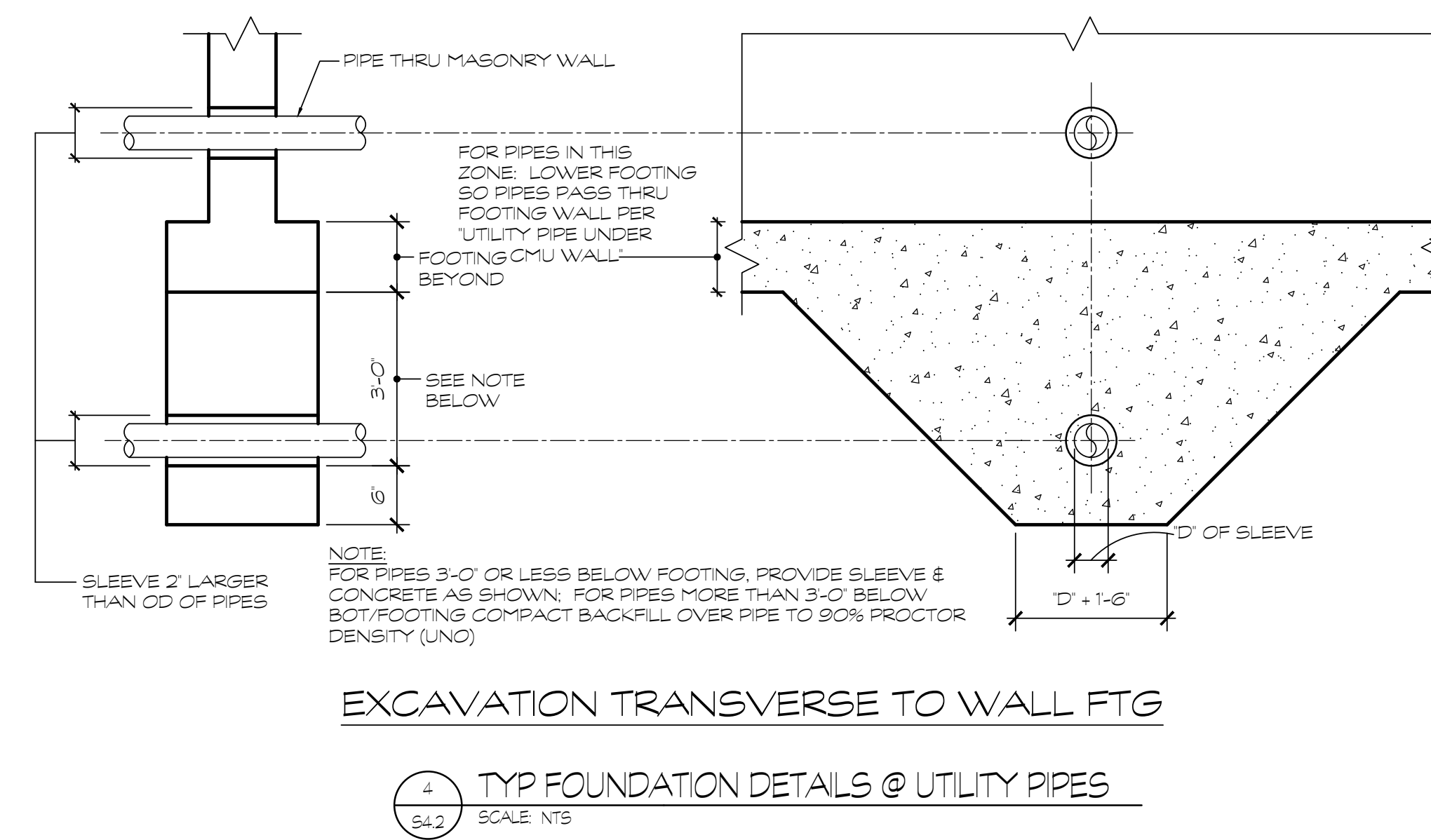
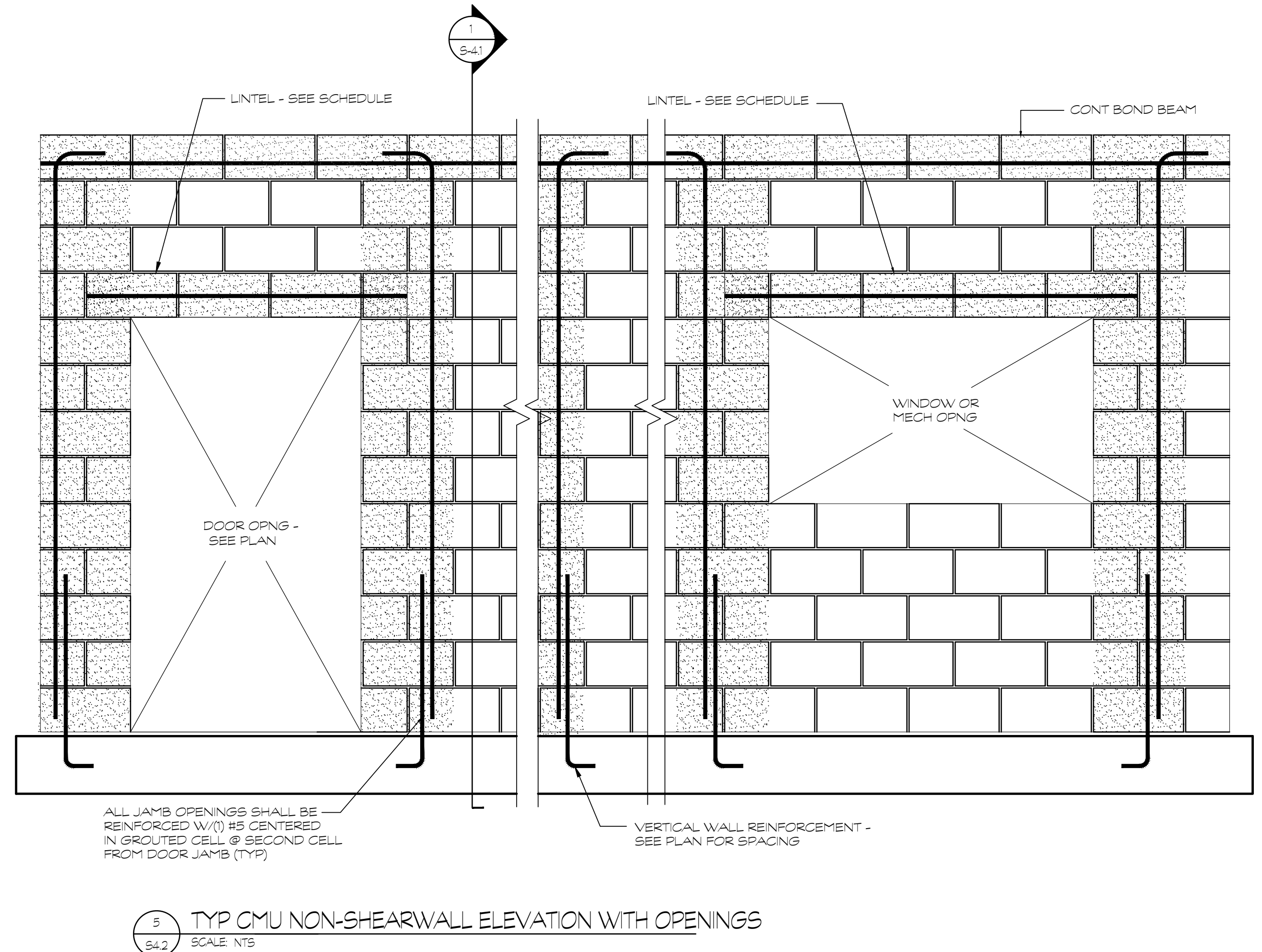
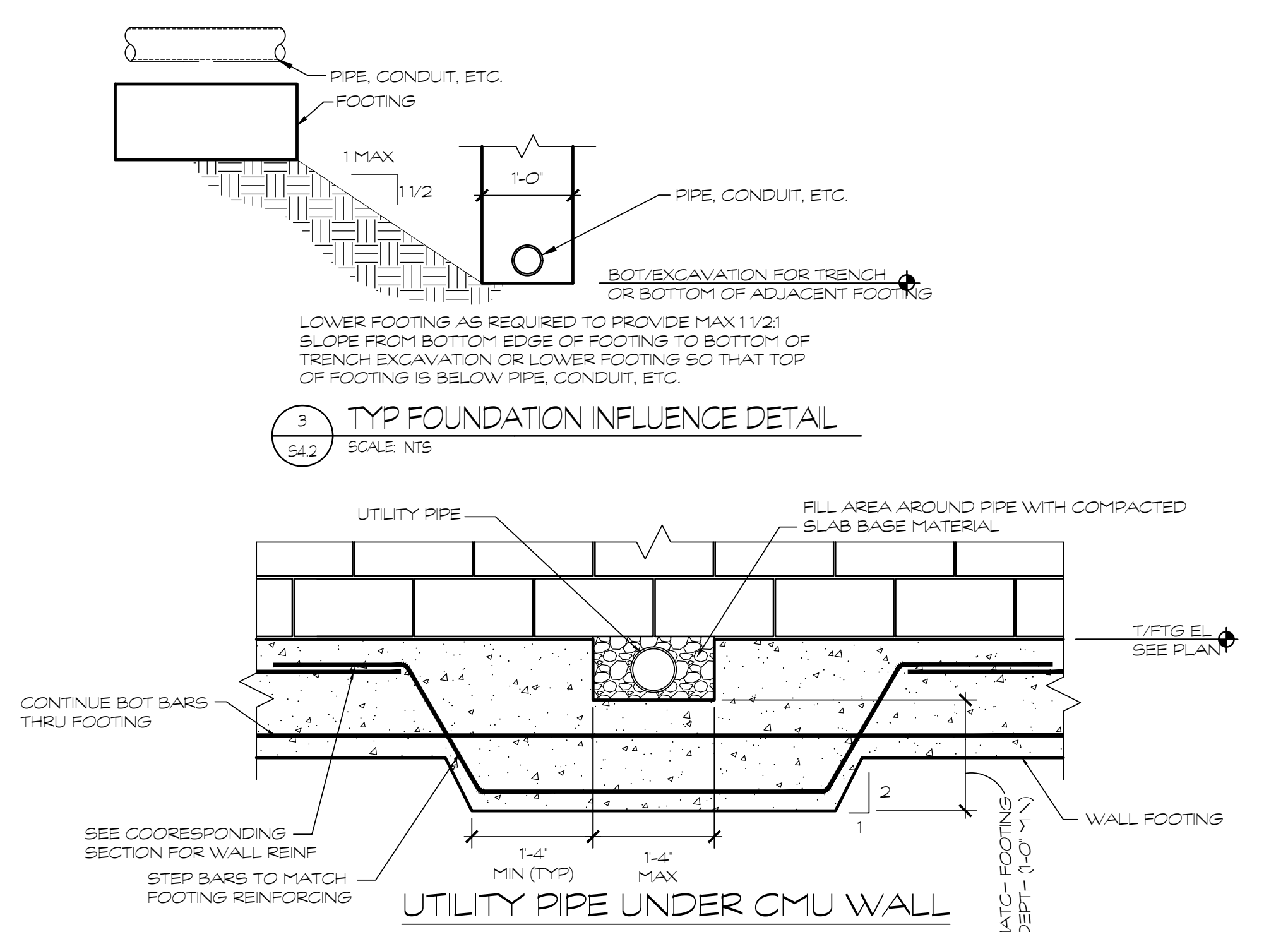
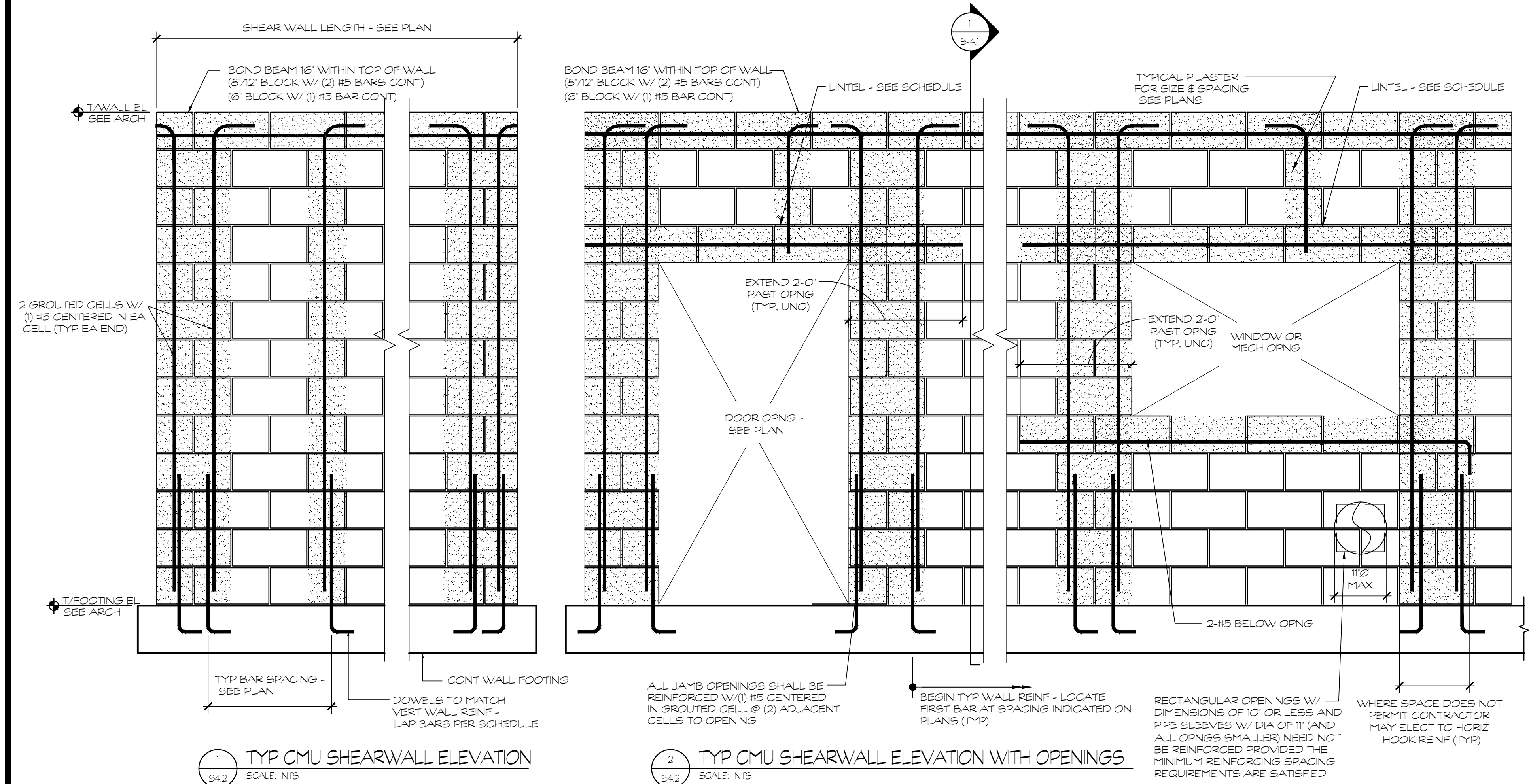


8 TYP TURNED DOWN SLAB  
SCALE: 3/4"=1'-0"

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000-0000



855 ABUTMENT ROAD  
SUITE FOUR  
DALTON, GA 30721  
TEL. 706.529.5895

A NEW BUILDING FOR:  
**DALTON POLICE DEPARTMENT**  
WHITFIELD COUNTY  
DALTON, GA 30720



SHEET NAME

MECHANICAL  
DETAILS

SHEET INDEX

M0.2

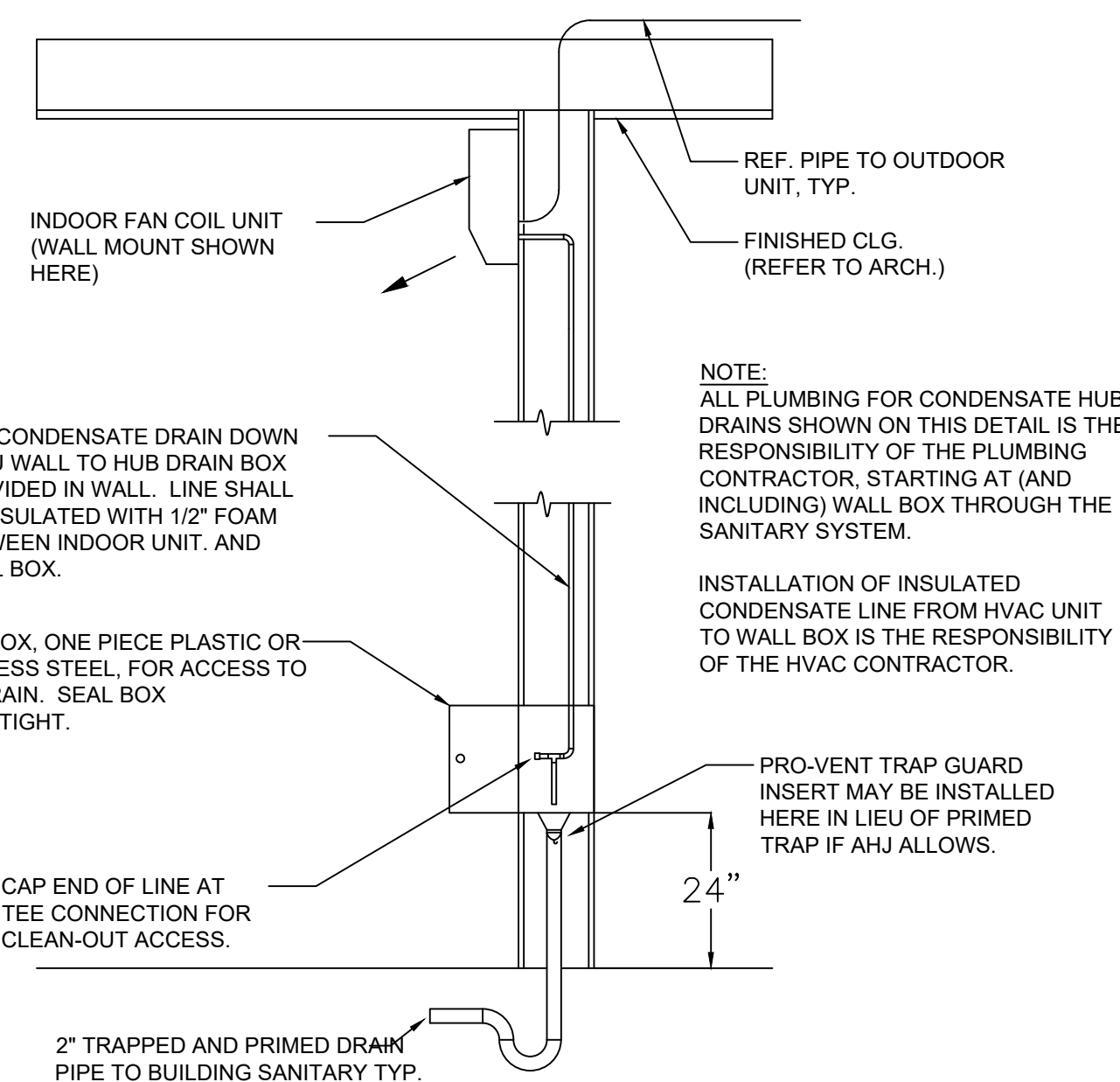
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100% DOAS Split System Schedule

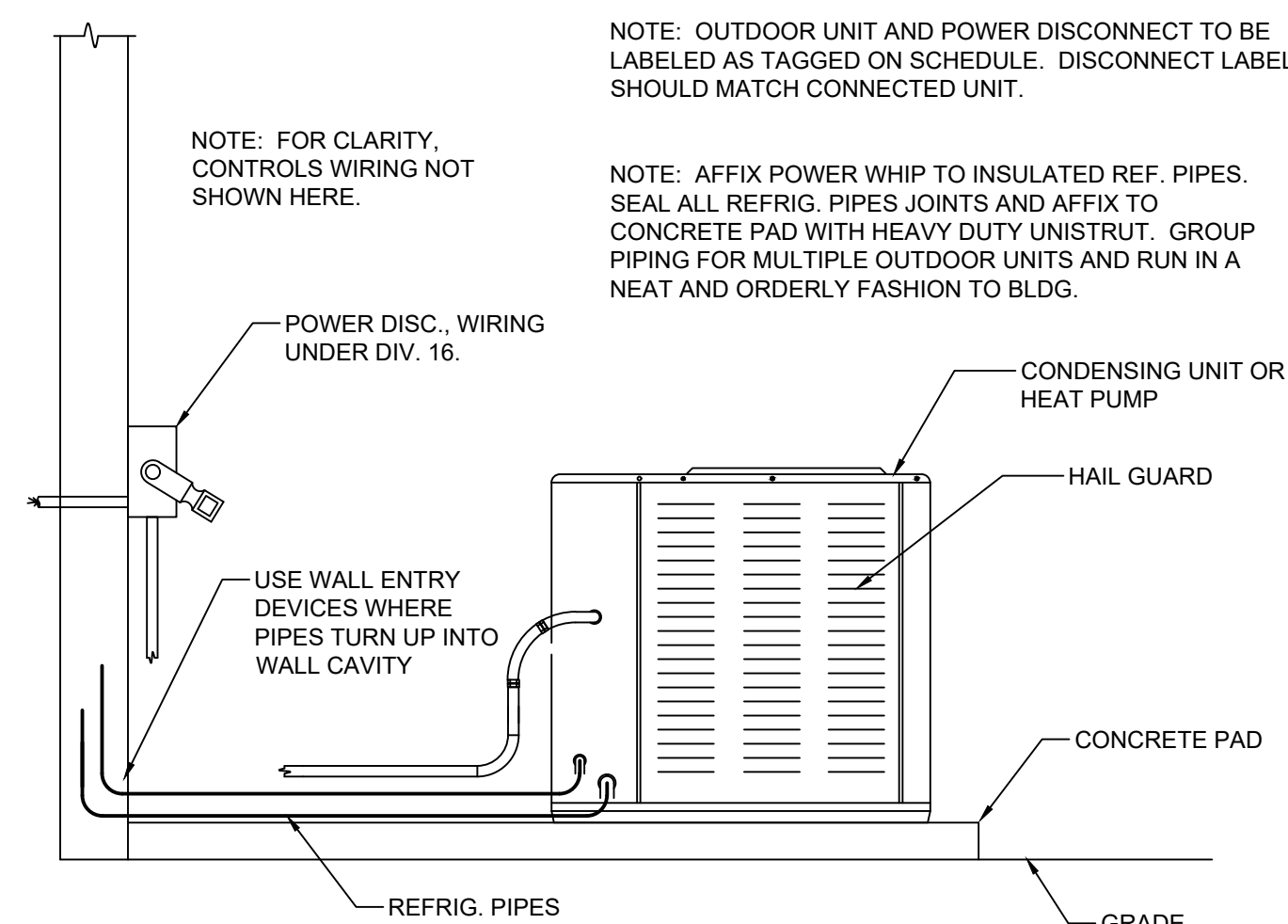
Tag	Supply CFM	Outside CFM	ESP (in wg)	Total Cap (MBH)	Sen Cap (MBH)	OADB	OAWB	Unit LADB	Unit LAWB	%RH	SA Fan HP	Heat Type	Heat EADB	Heat LADB	Heat KW	Heat Staging	Voltage	Unit FLA	MCA	MOP	Op Weight (lbs)	Model String
DOAS-1	1000	1000	0.8	66.61	42.09	95	75	55.85	54.99	55	1	Electric	18	86.1	21.0	SCR	208/3/60	61	76	80	721	V3-BRB-8-0-161C-7DS
DCU-1																		23	28	45	425	CFA-007-A-A-8-DA00H

NOTES:

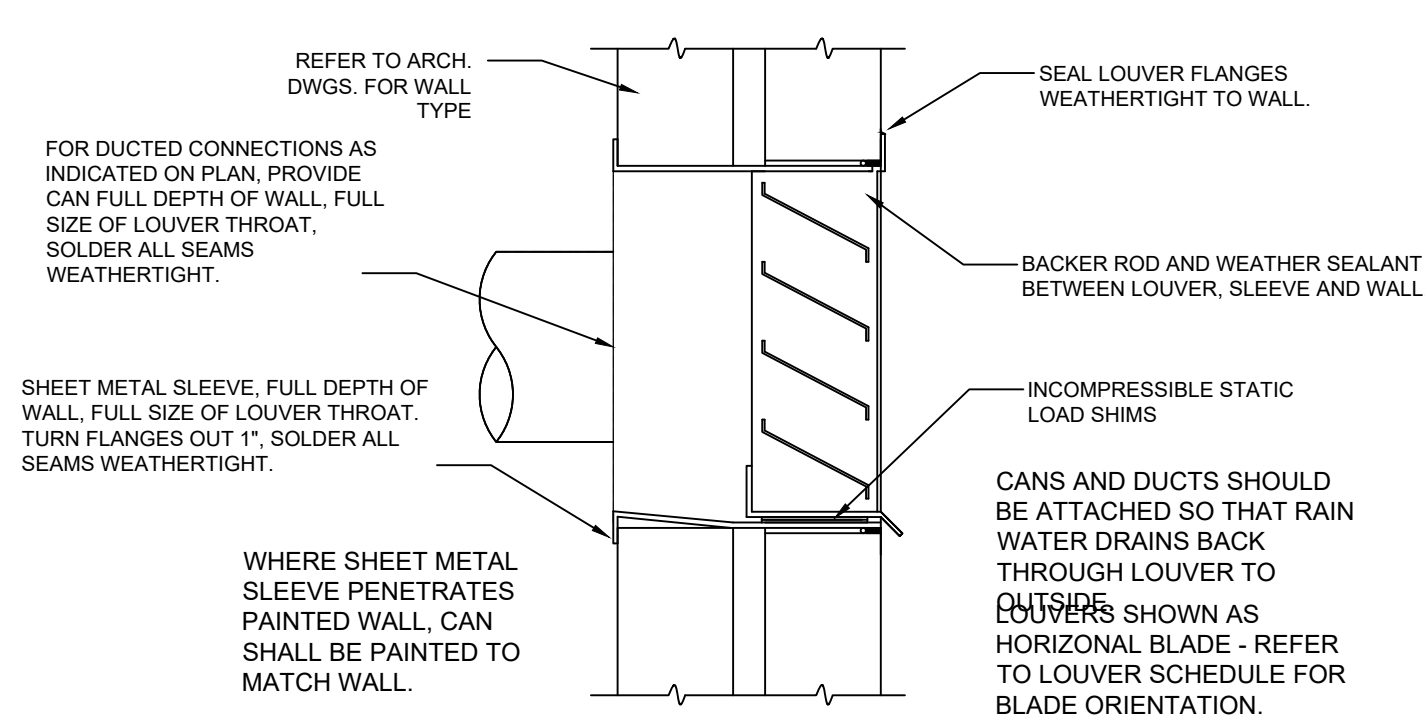
- R-410a
- Two (2) independent compressor circuits with minimum 6 row interfaced-circuit DX coil (Horizontal split not acceptable)
- Hot gas bypass all circuits
- Factory mounted hot gas reheat coil with MODULATING valve for dehumidification (2-position or dedicated heat pump circuit not acceptable)
- Stainless steel drain pan with factory mounted/wired condensate overflow switch
- Unit shall include manual reset high pressure switches & auto reset low pressure switches
- High efficiency EC supply fan motor
- VFD condenser fan motors for condenser head pressure control
- 4" MERV 12 filters with 2" MERV 8 pre-filters
- Controls: Wattmaster/Orion VCCX controller with ambient dewpoint sensor; electronic sequencing of compressors, heating and modulating hot gas re-heating.  
The intention of this unit is to provide continuous dehumidification of outside air while also providing temperature control to the space it serves  
If this causes overcooling in the space, the modulating hot gas reheat valve shall open to satisfy the conditioned space requirement  
Field mounted controls shall include a duct mounted leaving air stat and a wall mounted stat (see plans for location)  
All unit mounted controls for complete operation shall be installed by the equipment manufacturer
- DOAS-1 shall have 2" foam injected insulated doublewall cabinet construction
- Hinged access doors with lockable handles
- Duct mounted smoke detector provided by electrical, installed by mechanical
- Compressors shall have 5 year warranty (parts only)
- Unit shall have modulating SCR electric heating with infinite stages of heating
- Condenser, evaporator, and reheat coils to have corrosion resistant polymer coating
- DCU-2 shall have corrosion resistant internal coating
- Unit shall have phase protection



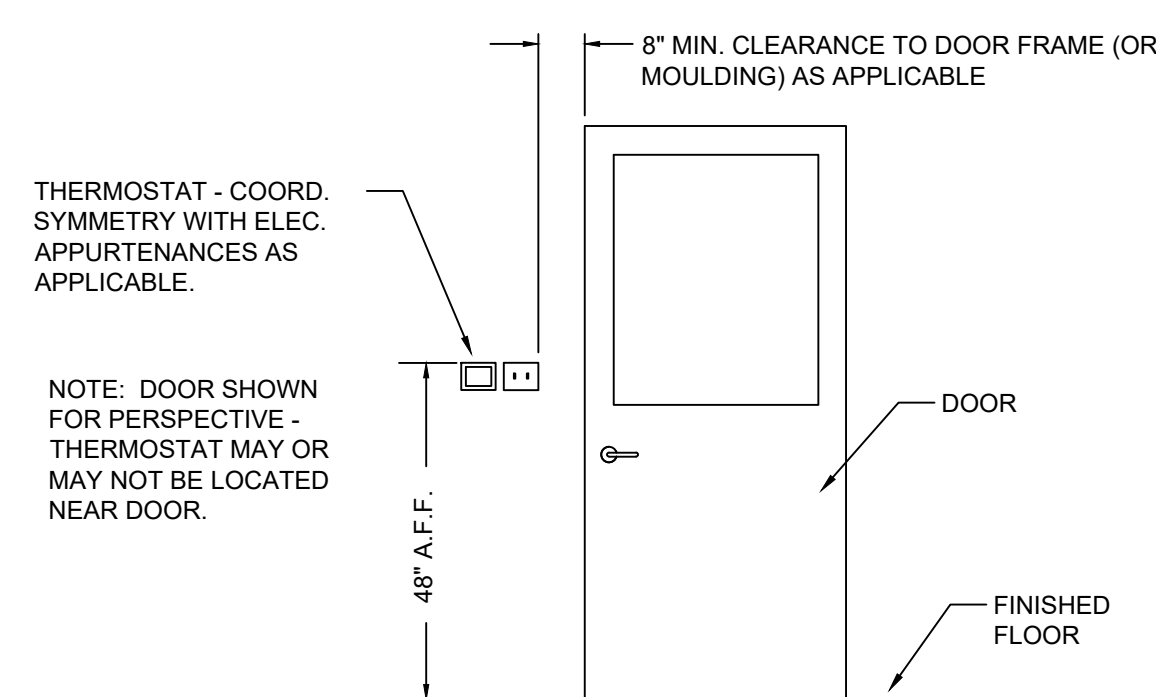
CONDENSATE TO HUB DRAIN  
WALL BOX DETAIL  
NOT TO SCALE



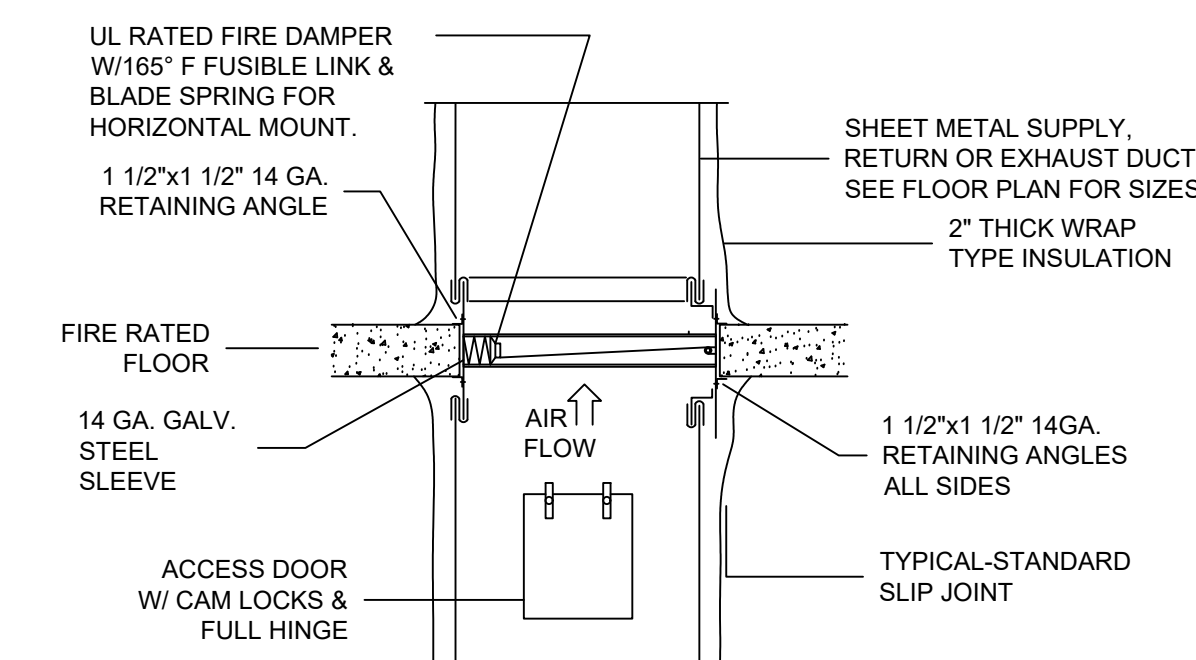
TYP. PAD MOUNT OUTDOOR  
CONDENSING UNIT DETAIL  
NOT TO SCALE



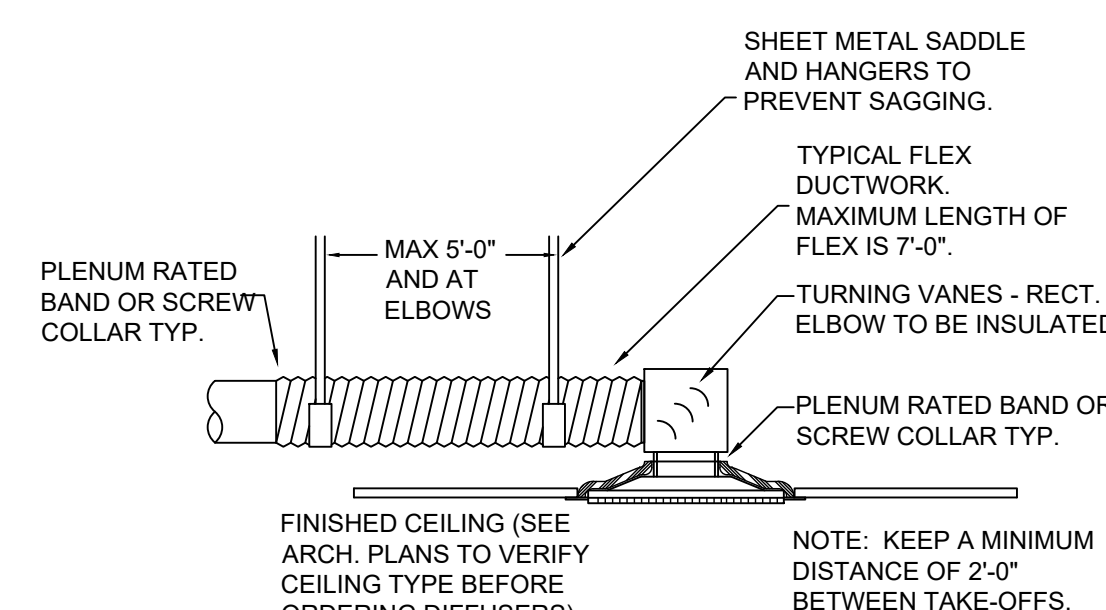
TYP. WALL LOUVER DETAIL  
NOT TO SCALE



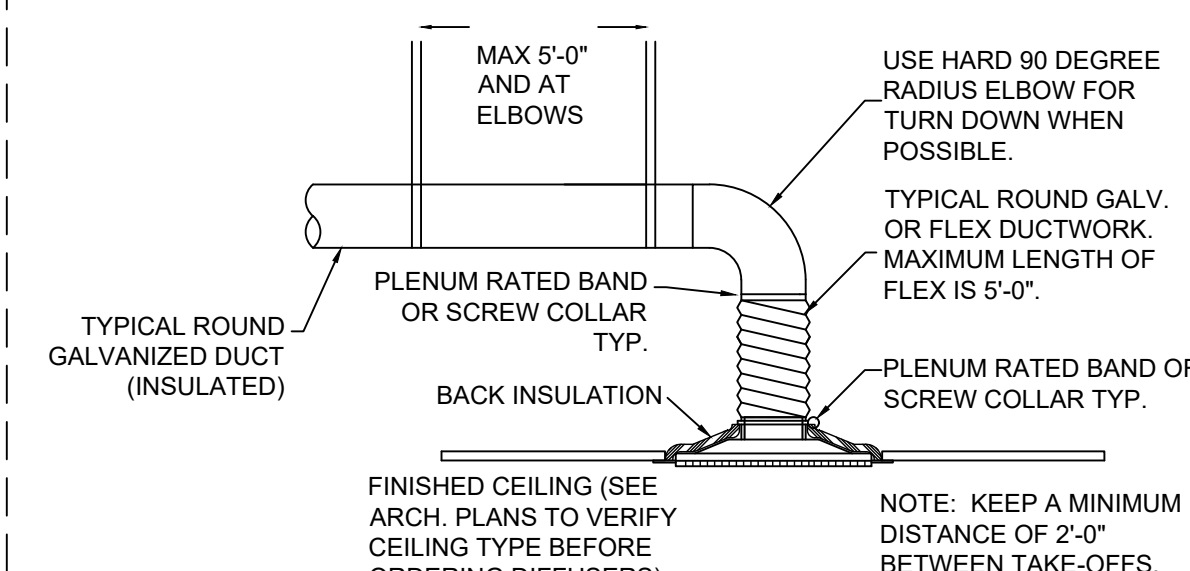
TYP. THERMOSTAT OR WALL  
SENSOR INSTALLATION DETAIL  
NOT TO SCALE



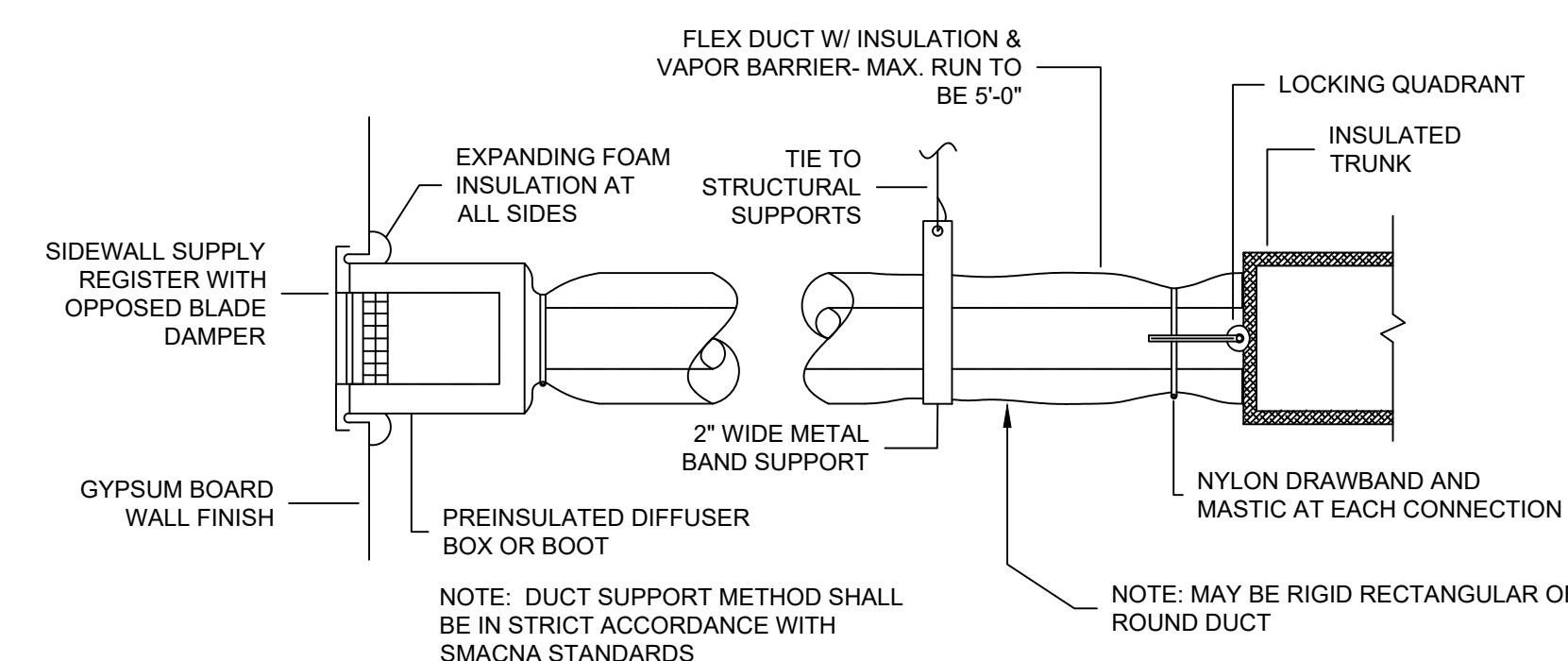
HORIZONTAL FIRE DAMPER  
NOT TO SCALE



LOW CLEARANCE BRANCH  
RUN-OUT DETAIL  
NOT TO SCALE

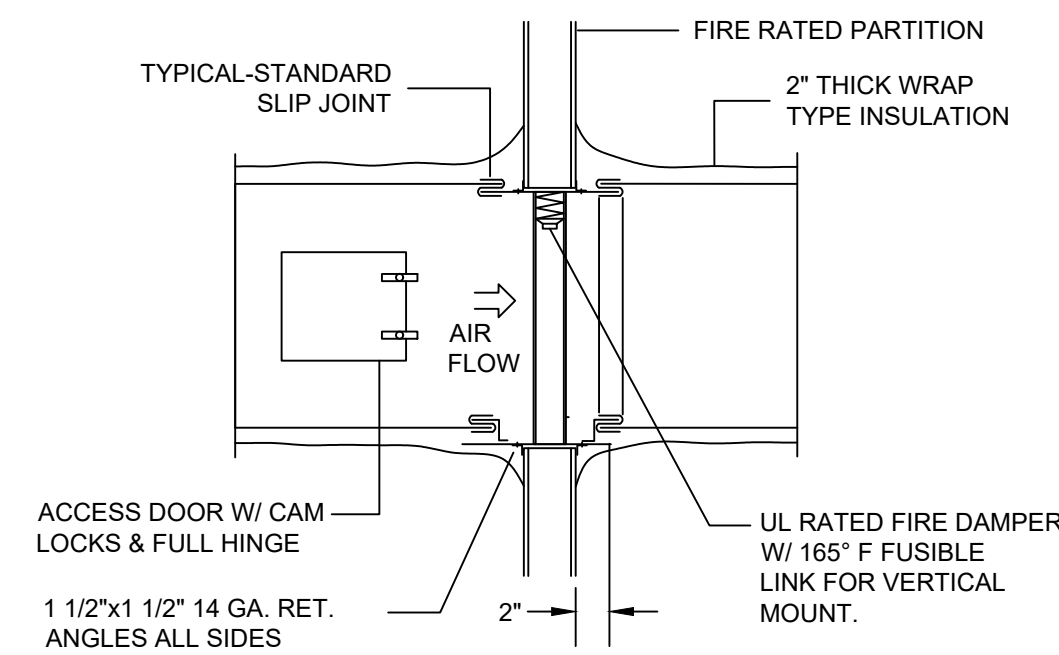


BRANCH RUN-OUT DETAIL  
NOT TO SCALE



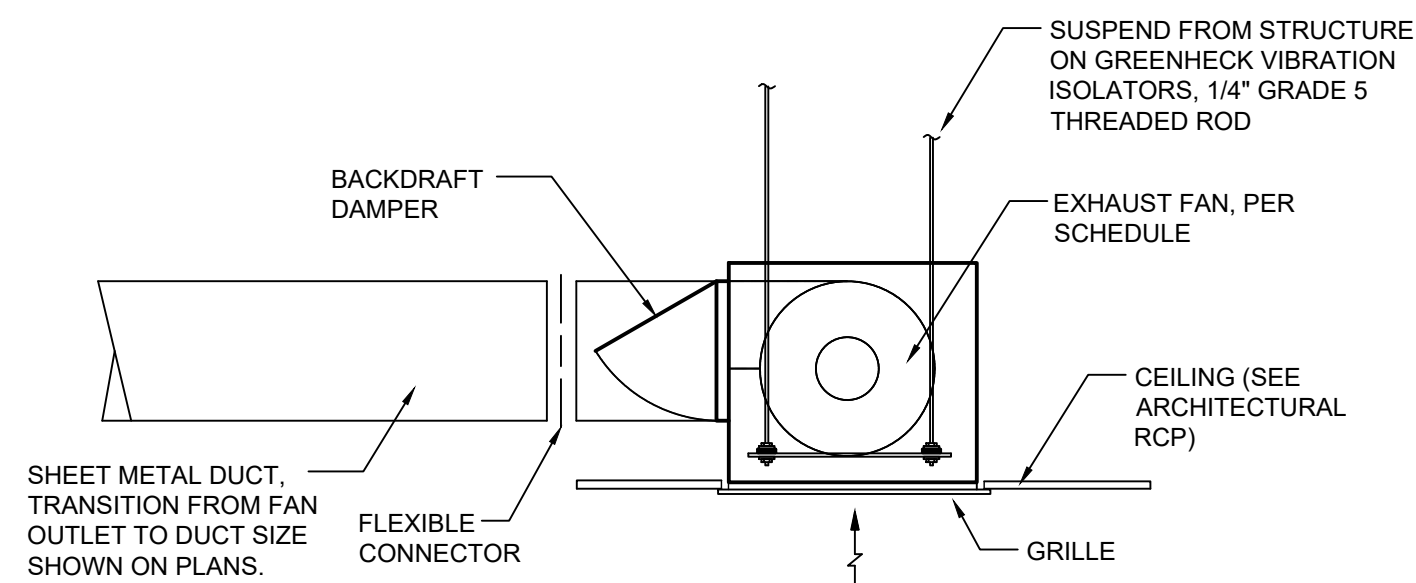
SIDEWALL REGISTER DETAIL  
NOT TO SCALE

FOR CONSTRUCTION



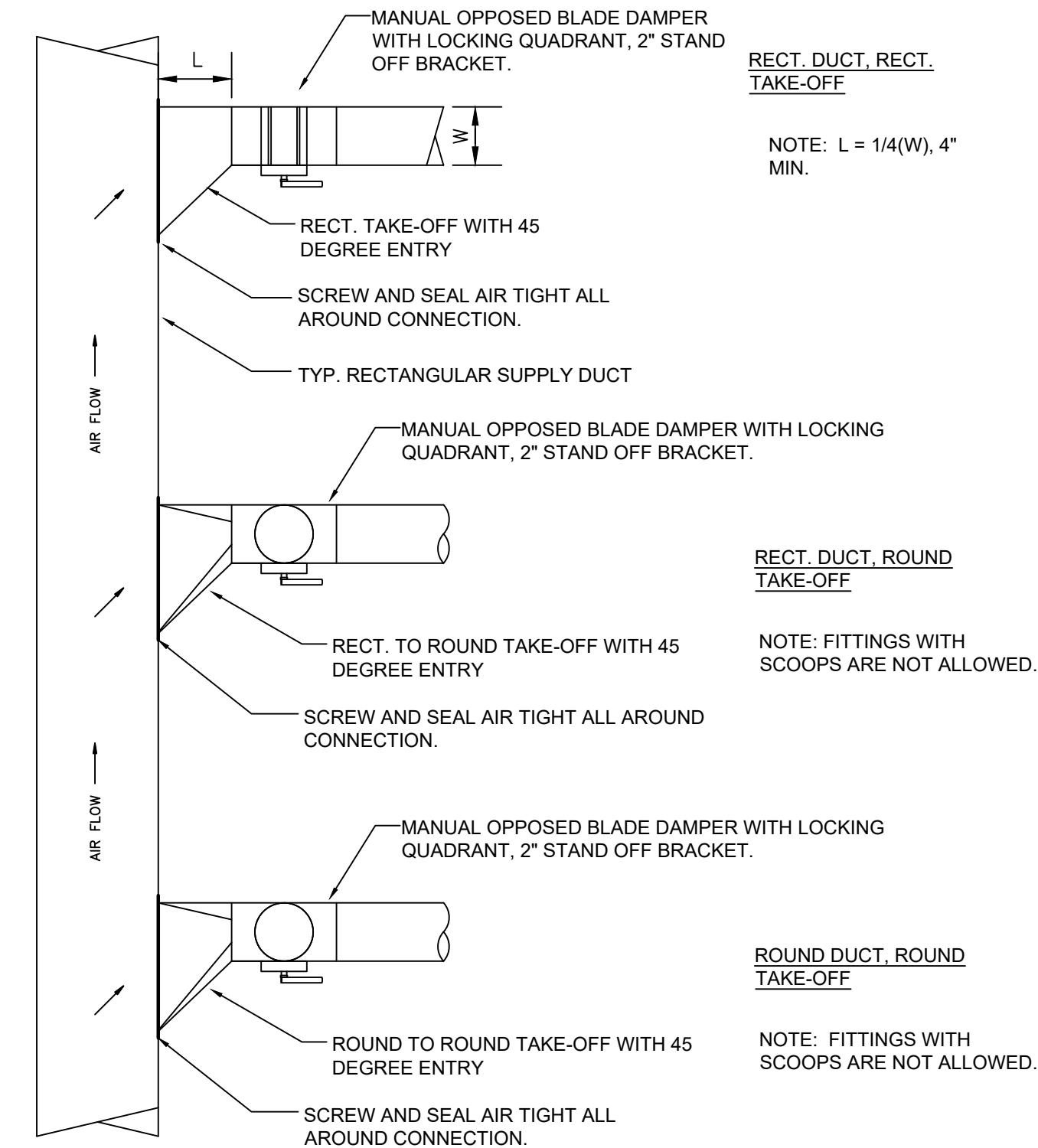
**VERTICAL FIRE DAMPER**

NOT TO SCALE



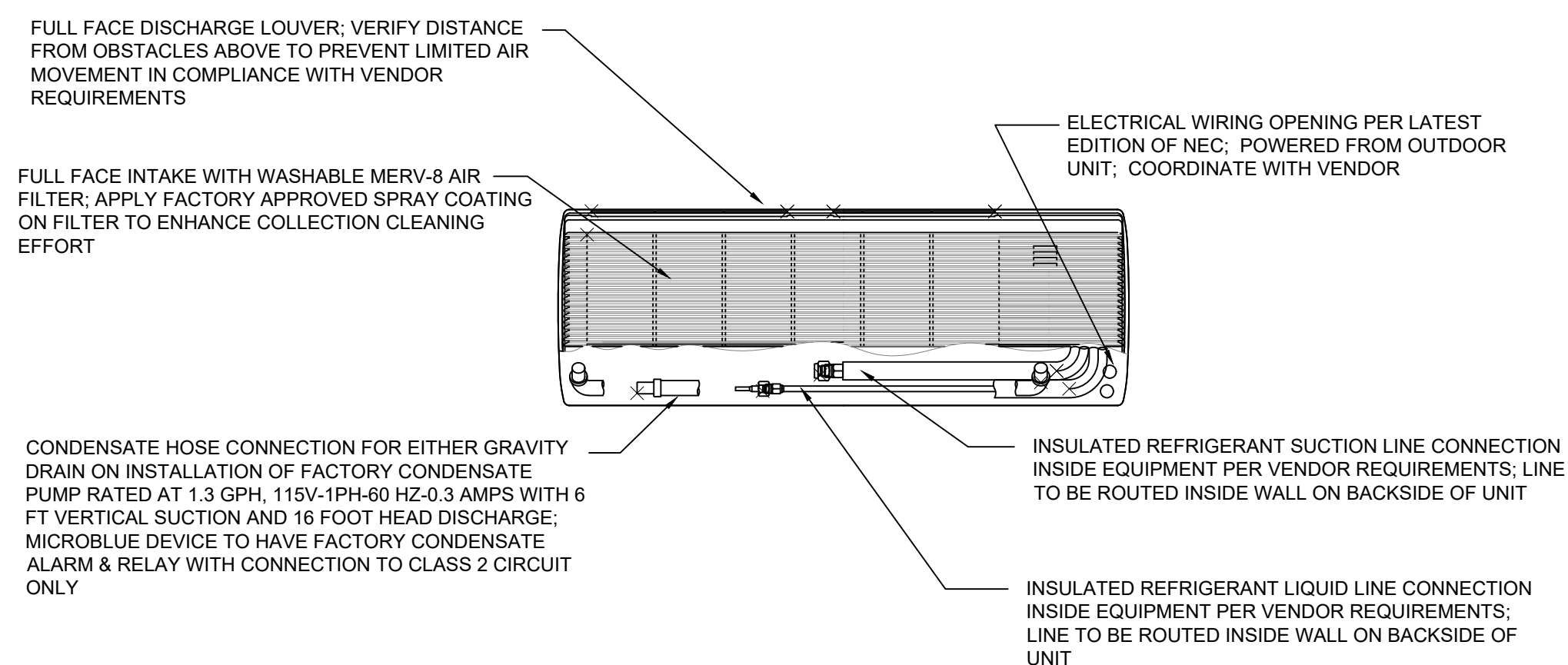
**CEILING MOUNT EXHAUST FAN DETAIL**

NOT TO SCALE



**BRANCH DUCT TAKE-OFF DETAILS**

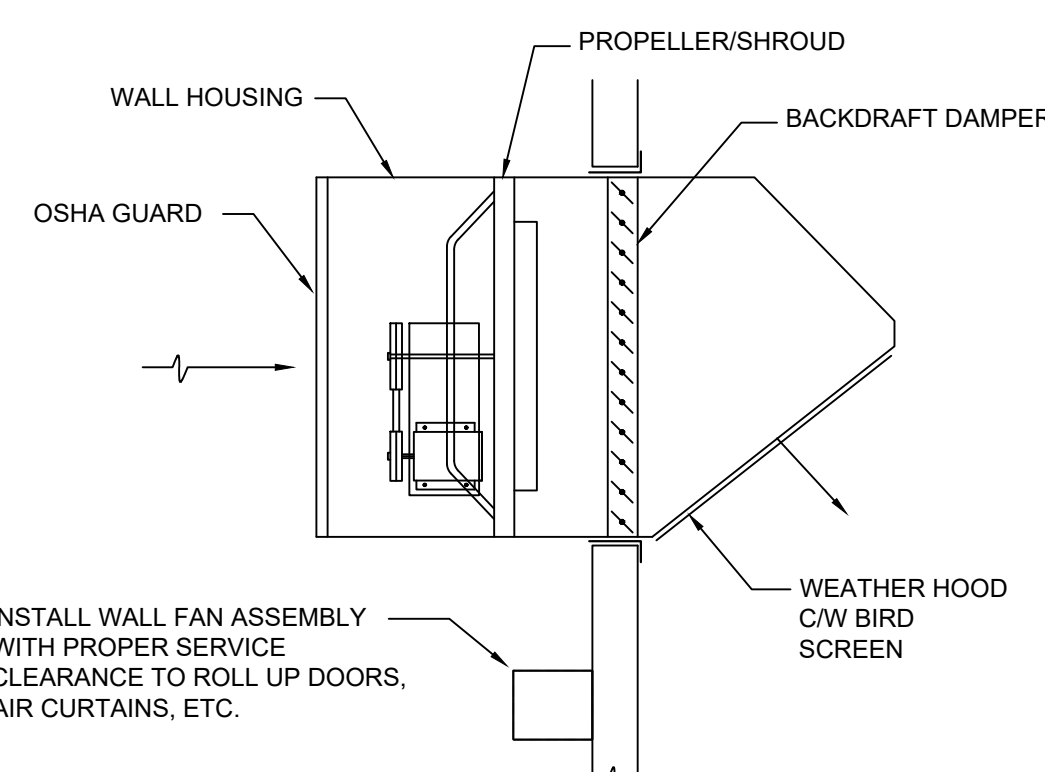
NOT TO SCALE



**TYPICAL MINI-SPLIT WALL MOUNTED FAN COIL DETAIL**

NOT TO SCALE

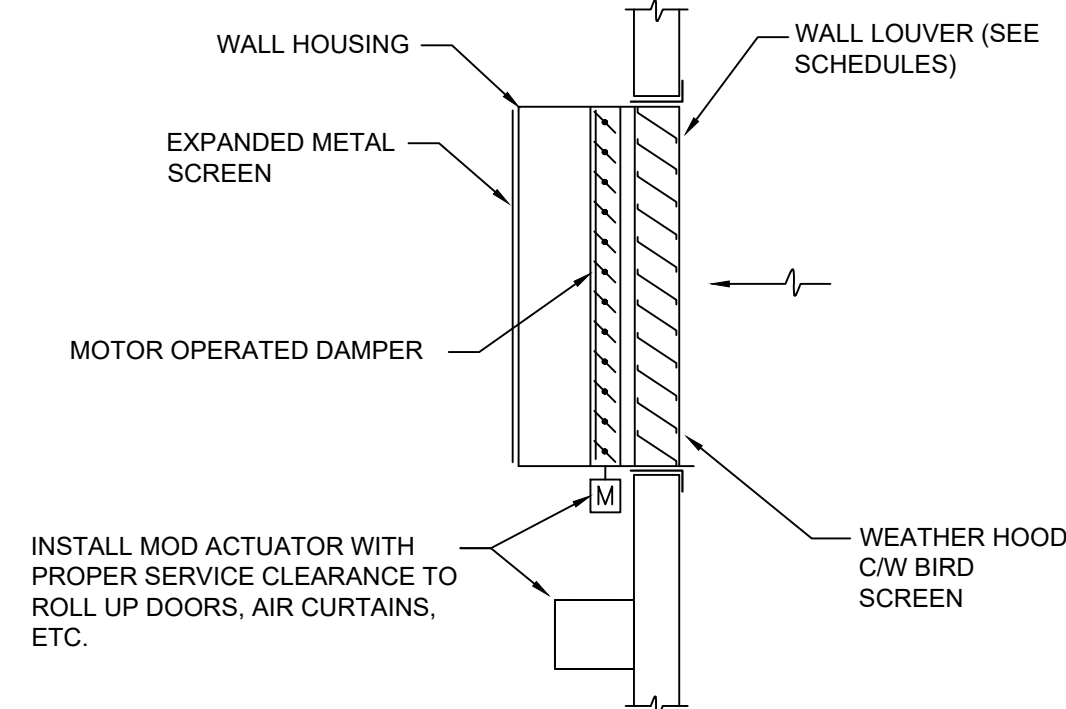
**FAN CONTROL NOTES:**  
EACH EXHAUST FAN SHALL BE INTERLOCKED w/ WAREHOUSE LIGHTS FOR POWER, CONTROLLED BY A WALL MOUNTED ON/OFF SWITCH LOCATED NEAR FAN.



**WALL MOUNT PROPELLER EXHAUST FAN DETAIL**

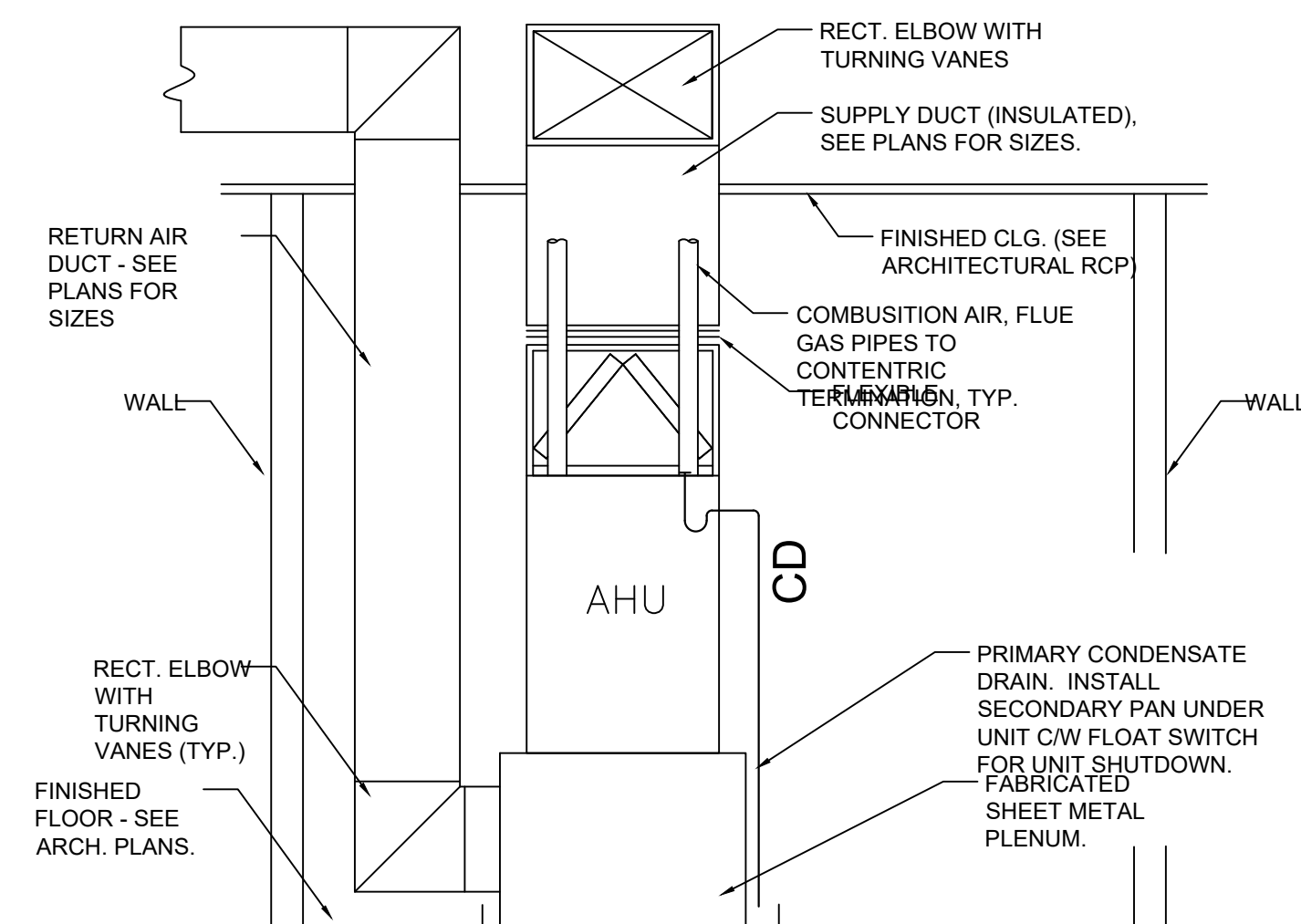
NOT TO SCALE

**LOUVER CONTROL NOTES:**  
EACH MOTOR OPERATED DAMPER TO BE CONTROLLED TO OPEN WHEN ANY EXHAUST FAN IN THE SAME SPACE IS ENERGIZED, AND CLOSE WHEN NO FANS IN THE SAME SPACE ARE ENERGIZED.



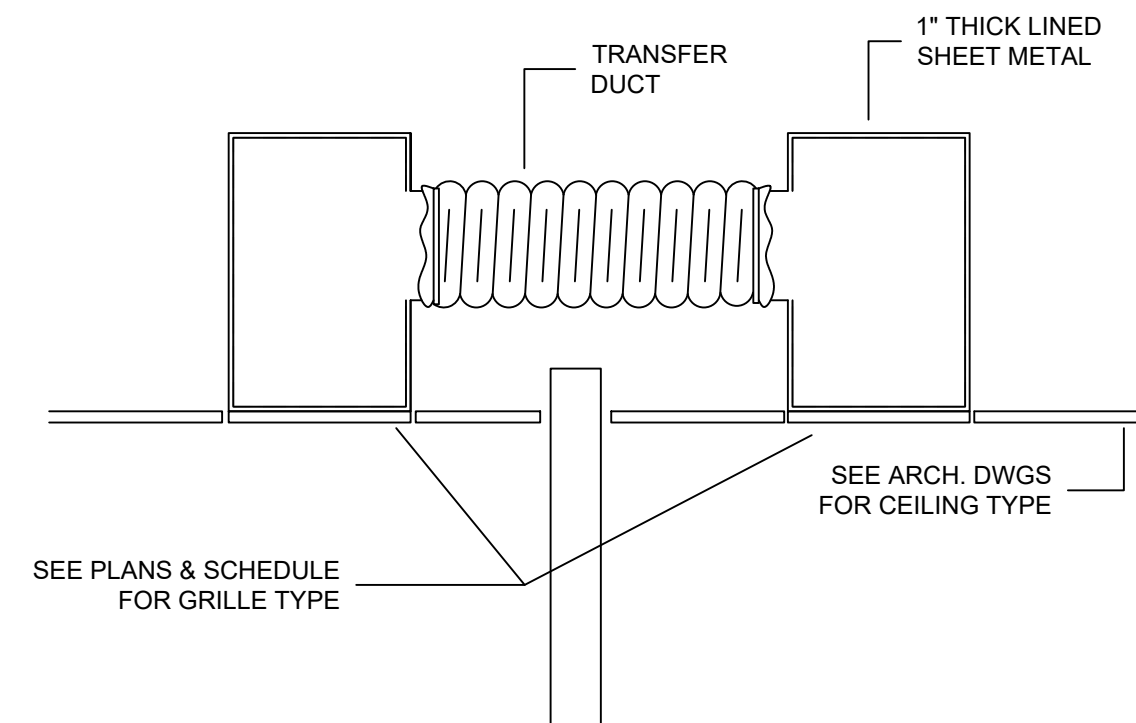
**INDUSTRIAL INTAKE WALL LOUVER DETAIL**

NOT TO SCALE



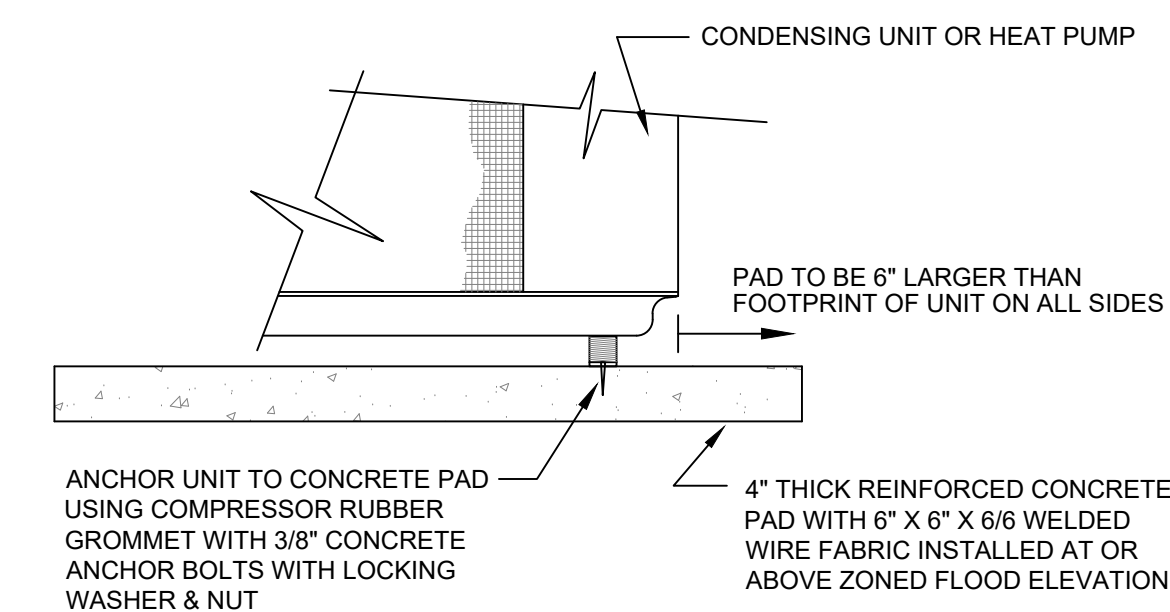
**TYP. SPLIT FURNACE UNIT DETAILS**

NOT TO SCALE



**TYP. TRANSFER GRILLE**

NOT TO SCALE



**OUTDOOR UNIT GROUND MOUNTING DETAIL**

NOT TO SCALE

**FOR CONSTRUCTION**

PROJECT NUMBER  
**23-021**

DATE  
**12/01/23**

REVISIONS

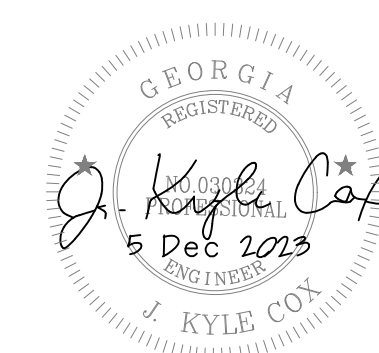
NO.	DATE
0000	00/00/00

FACILITY CODE  
**000-0000**



855 ABUTMENT ROAD  
SUITE FOUR  
DALTON, GA 30721  
TEL. 706.529.5895

A NEW BUILDING FOR:  
**DALTON POLICE DEPARTMENT**  
WHITFIELD COUNTY  
DALTON, GA 30720



SHEET NAME

MECHANICAL  
DETAILS

SHEET INDEX

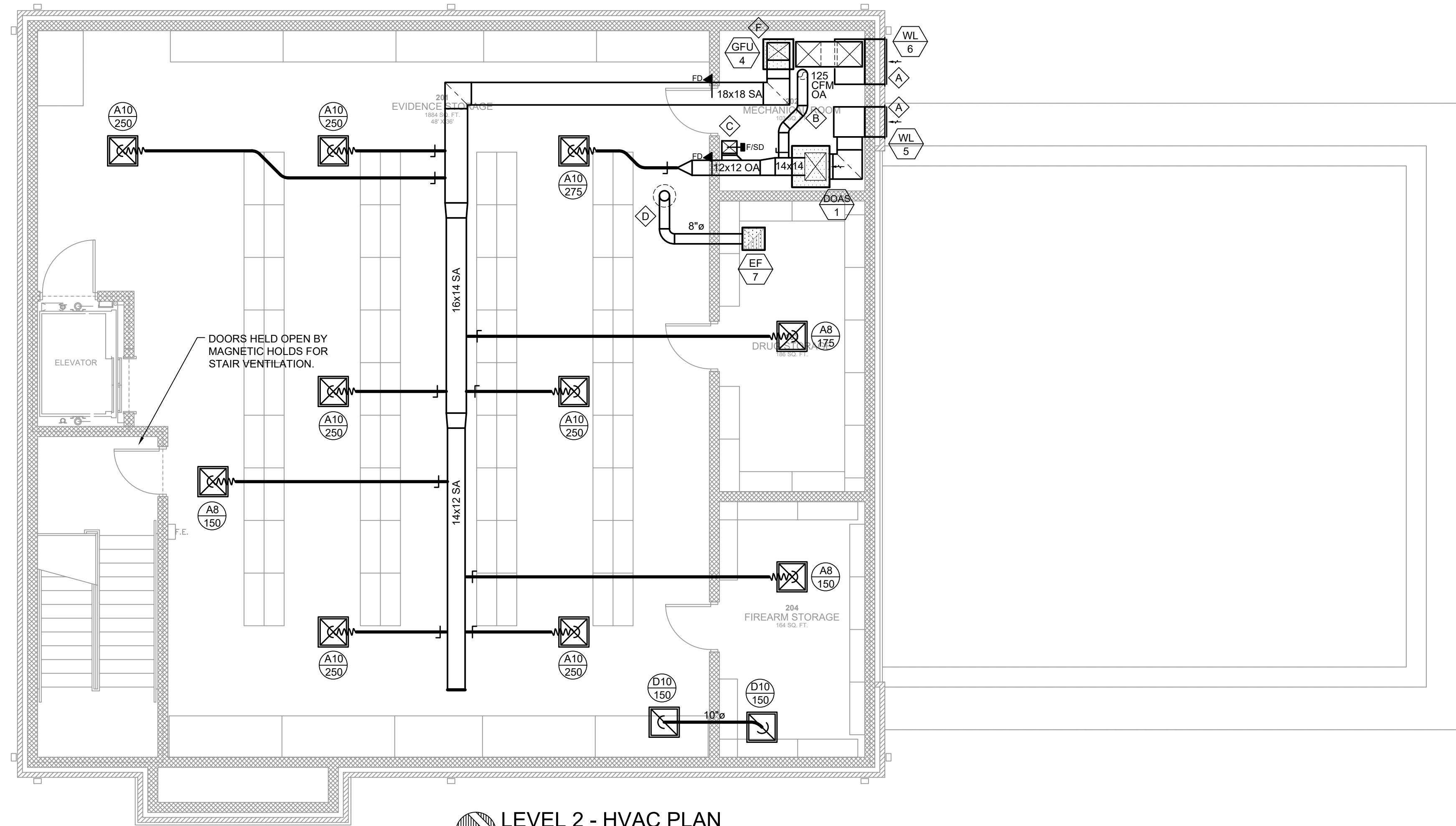
**M0.3**

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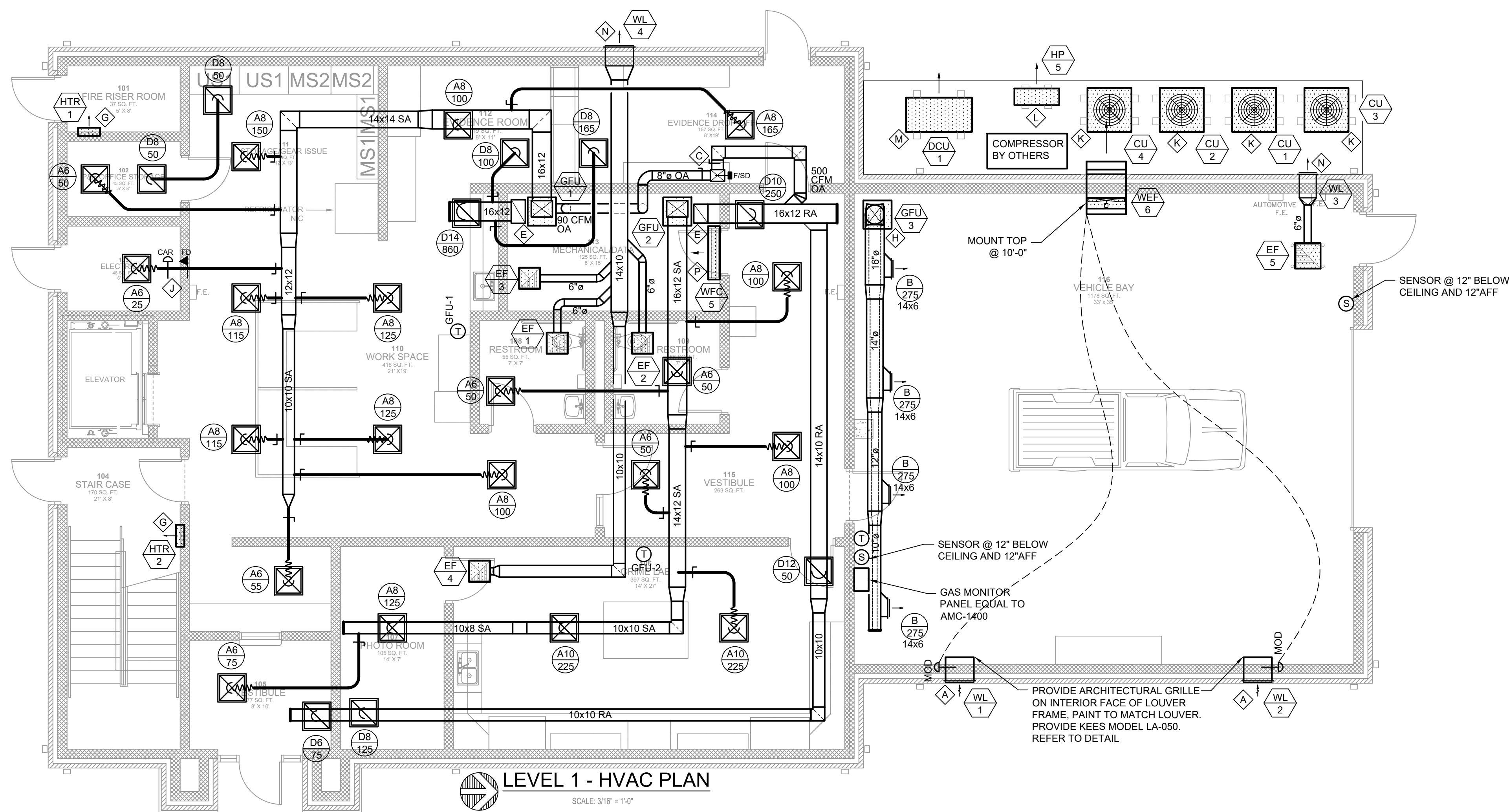
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**LEVEL 2 - HVAC PLAN**  
SCALE: 3/16" = 1'-0"



**LEVEL 1 - HVAC PLAN**  
SCALE: 3/16" = 1'-0"

**KEY NOTES**

- A. TYPICAL INTAKE LOUVER, PER SCHEDULE & DETAIL. MOUNT ADJACENT LOUVER w/ BOTTOM @ SAME ELEVATION FOR UNIFORM APPEARANCE.
- B. ROUTE 8" OA DUCT FROM DOAS SYSTEM TO GFU-4 RETURN PLENUM. PROVIDE w/ MANUAL BALANCING DAMPER SET TO CFM INDICATED.
- C. OUTSIDE AIR DUCT DOWN THRU FLOOR TO SERVE LOWER LEVEL. PROVIDE COMBINATION FIRE / SMOKE DAMPER @ PENETRATION. DAMPER SHALL BE ORIENTED FOR ACCESSIBILITY.
- D. 8" EXHAUST DUCT UP FROM EF-7 TO ROOF MOUNTED GRAVITY RELIEF CAP, EQUIVALENT TO GREENHECK GRSR-08. PROVIDE w/ FACTORY CURB INTENDED FOR SLOPED ROOF APPLICATIONS. HOOD SHALL BE LOCATED ON 'BACK' OF ROOF.
- E. TYPICAL GAS-FIRED FURNACE UNIT w/ COMPATIBLE COOLING COILS. INSTALL PER MANUFACTURER'S REQUIREMENTS. TEST FIT ALL DUCTWORK AND EQUIPMENT IN THIS AREA PRIOR TO INSTALLATION. FIELD COORDINATE WHERE REQUIRED TO MEET DESIGN INTENT.
- F. TYPICAL GAS-FIRED FURNACE UNIT w/ COMPATIBLE COOLING COILS. INSTALL PER MANUFACTURER'S REQUIREMENTS.
- G. TYPICAL WALL MOUNTED ELECTRIC HEATER, w/ BOTTOM @ 18" AFF. FIELD COORDINATE EXACT WALL HEATER w/ OTHER SYSTEMS IN THIS AREA
- H. TYPICAL GAS-FIRED FURNACE UNIT w/ COMPATIBLE COOLING COILS. INSTALL PER MANUFACTURER'S REQUIREMENTS. FAN MOUNTED ON RETURN PLENUM MIXING BOX w/ SIDE RETURN FILTER GRILLE. PROVIDE 20x20 FILTER RETURN GRILLE
- I. NOT USED
- J. PROVIDE INLINE AUTOMATIC FLOW CONTROL DEVICE, SIMILAR TO AMERICAN ALDES, CAR3 MODEL. SET FOR CFM INDICATED
- K. TYPICAL SPLIT SYSTEM CONDENSING UNIT, PER SCHEDULE AND DETAILS. MAINTAIN ALL RECOMMENDED CLEARANCES. MOUNT REFRIGERANT PIPING TO UNISTRUT AND ROUTE PARALLEL w/ OTHER SYSTEMS
- L. MINI-SPLIT HEAT PUMP, OUTDOOR UNIT. MOUNT REFRIGERANT PIPING TO UNISTRUT AND ROUTE PARALLEL w/ OTHER SYSTEMS
- M. SPLIT DOAS CONDENSING UNIT, PER SCHEDULE. MAINTAIN ALL MANUFACTURER REQUIRED CLEARANCES. MOUNT REFRIGERANT PIPING TO UNISTRUT AND ROUTE UP TO INDOOR UNIT.
- N. TYPICAL EXHAUST LOUVER, PER SCHEDULE & DETAIL. MOUNT LOUVER w/ BOTTOM @ 11'-0"
- O. NOT USED
- P. MINI-SPLIT WALL MOUNTED FAN COIL, PER SCHEDULE & DETAILS. ROUTE GRAVITY DRAIN CONDENSATE DOWN TO HUB DRAIN PROVIDED. REFER TO PLUMBING DRAWINGS FOR EXACT LOCATION.

**GENERAL CONSTRUCTION NOTES**

1. UNLESS DOOR IS NOTED TO HAVE A TRANSFER GRILLE INSTALLED, UNDERCUT RESTROOM, STORAGE CLOSET, AND JANITOR'S CLOSET DOORS 3/4" FOR PROPER MAKE-UP AIR FLOW.
2. DRAIN HVAC CONDENSATE TO HUB DRAINS PROVIDED, UNLESS NOTED OTHERWISE. REFER TO PLUMBING DRAWINGS FOR EXACT LOCATION.
3. COORDINATE DIFFUSER LOCATIONS WITH ARCH. REFLECTED CEILING PLAN AND LIGHTING PLAN.
4. FIELD VERIFY EXACT CONDITIONS. PROVIDE NECESSARY ALTERATIONS REQUIRED TO MEET DESIGN INTENT.

**KEY PLAN**



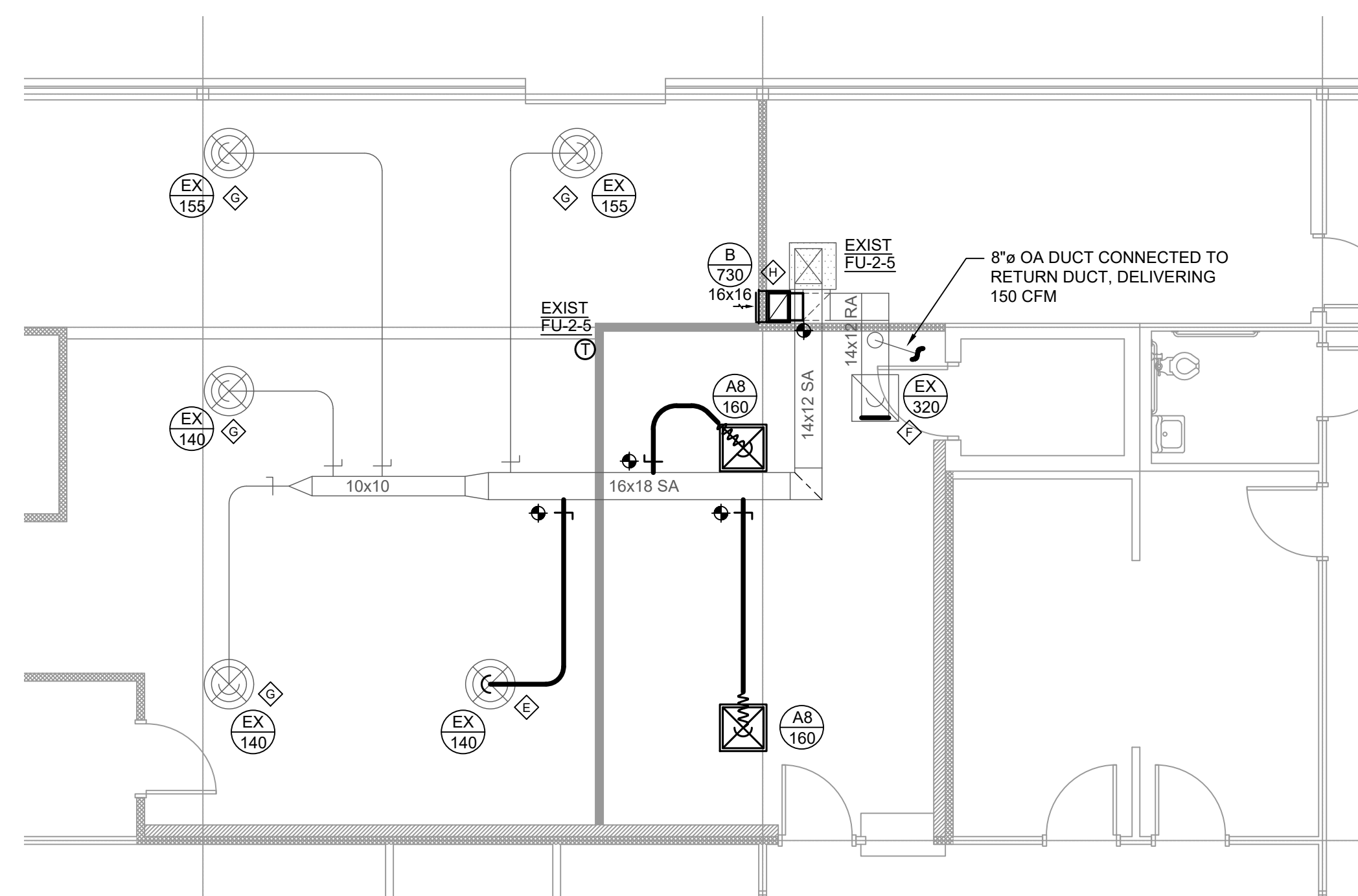
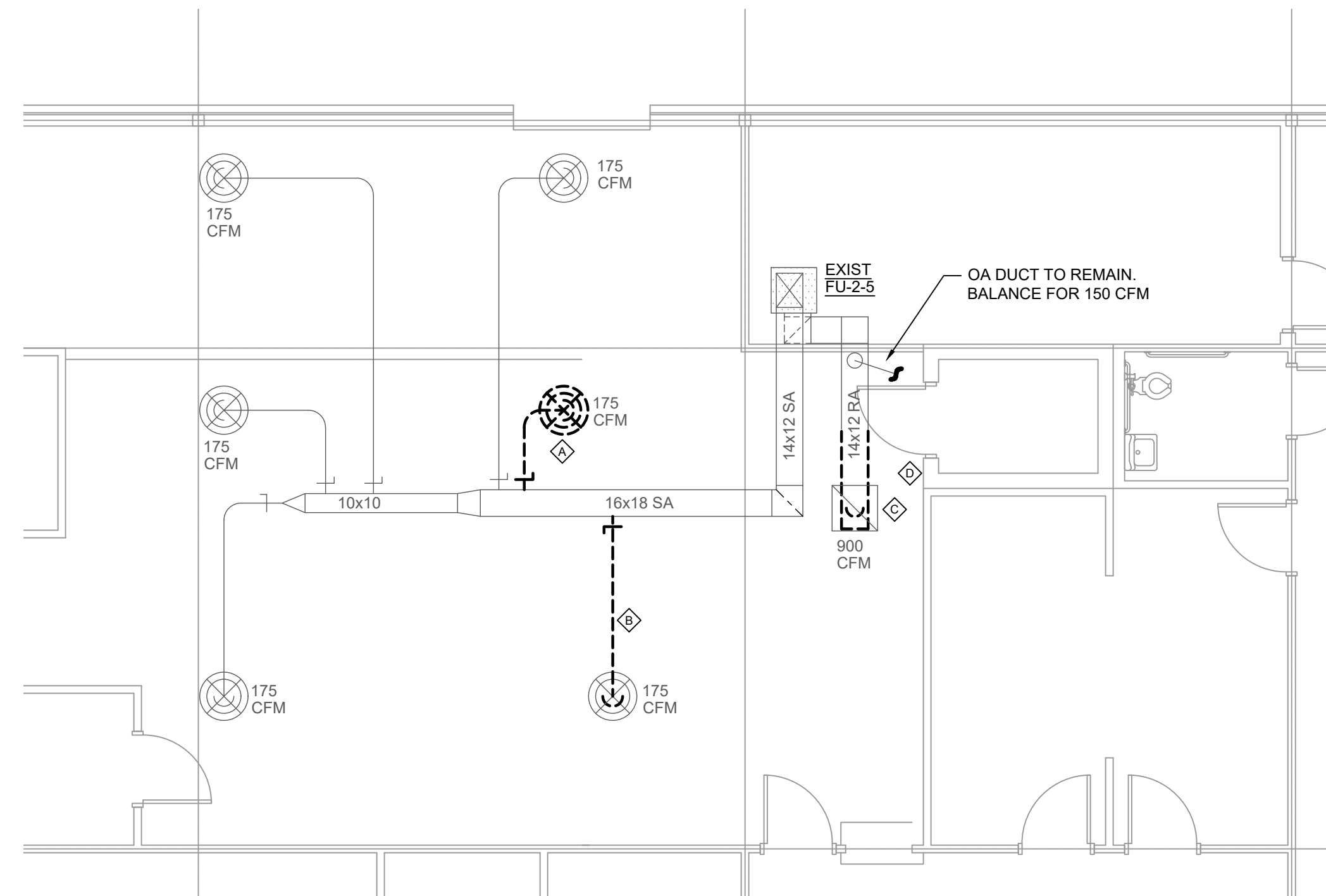
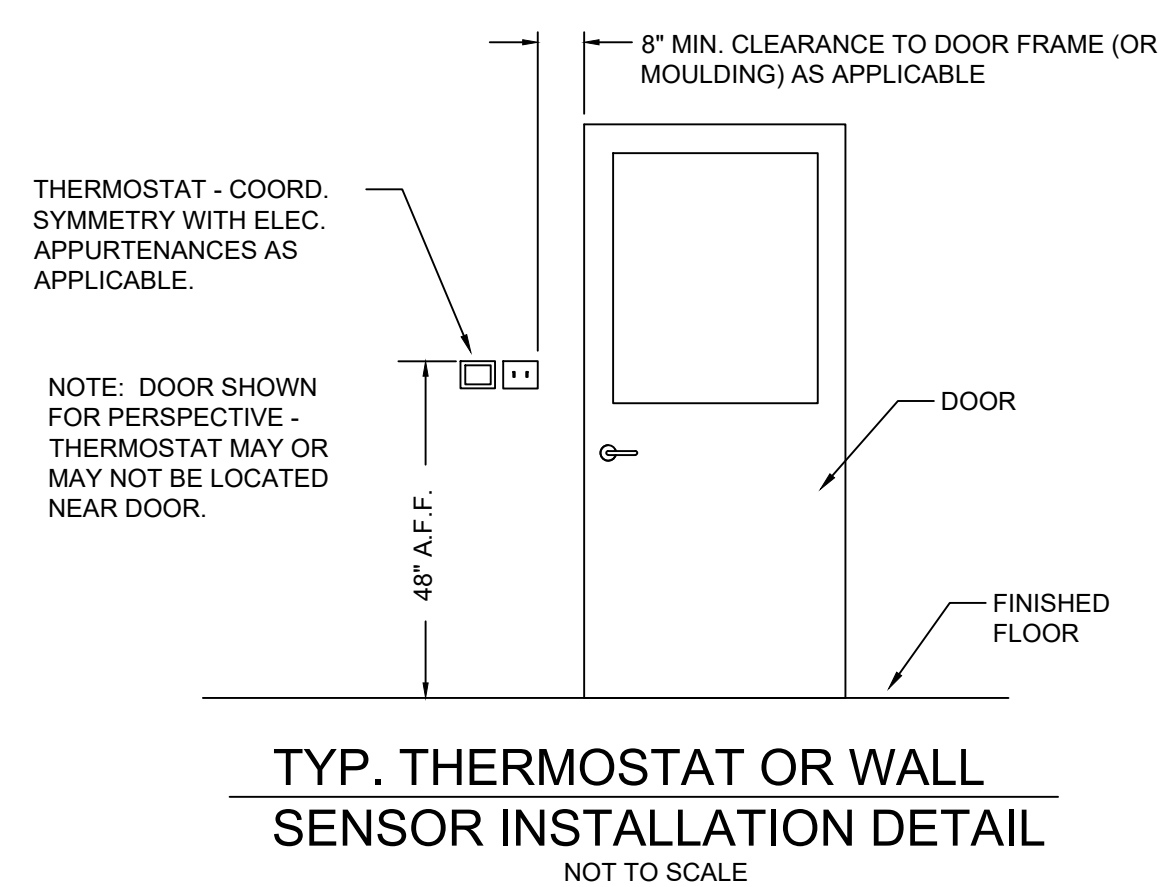
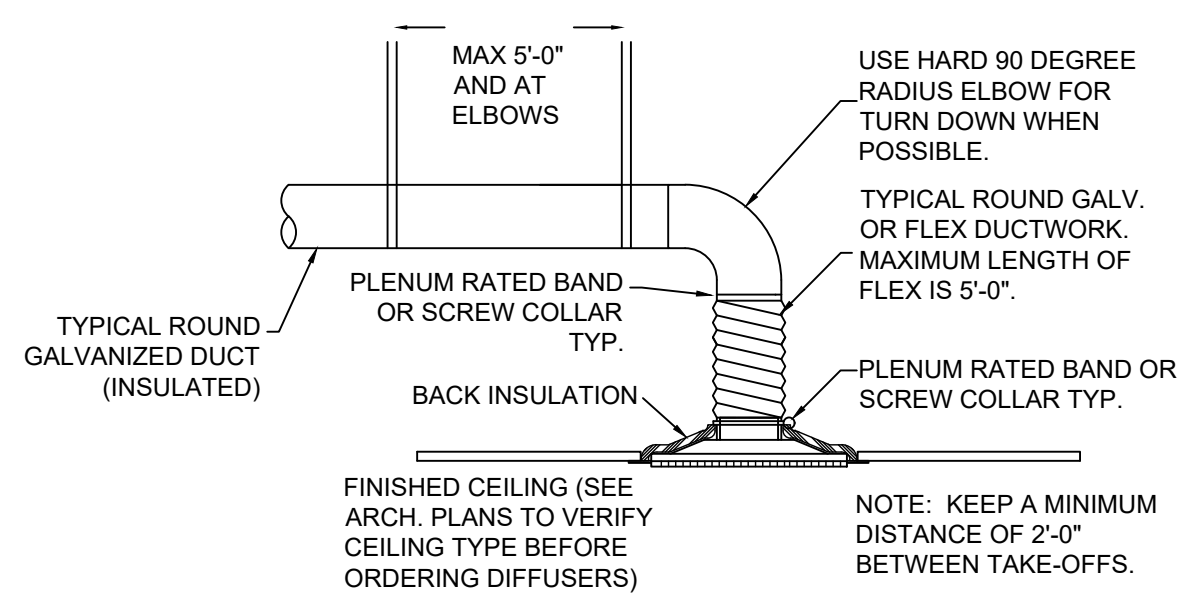
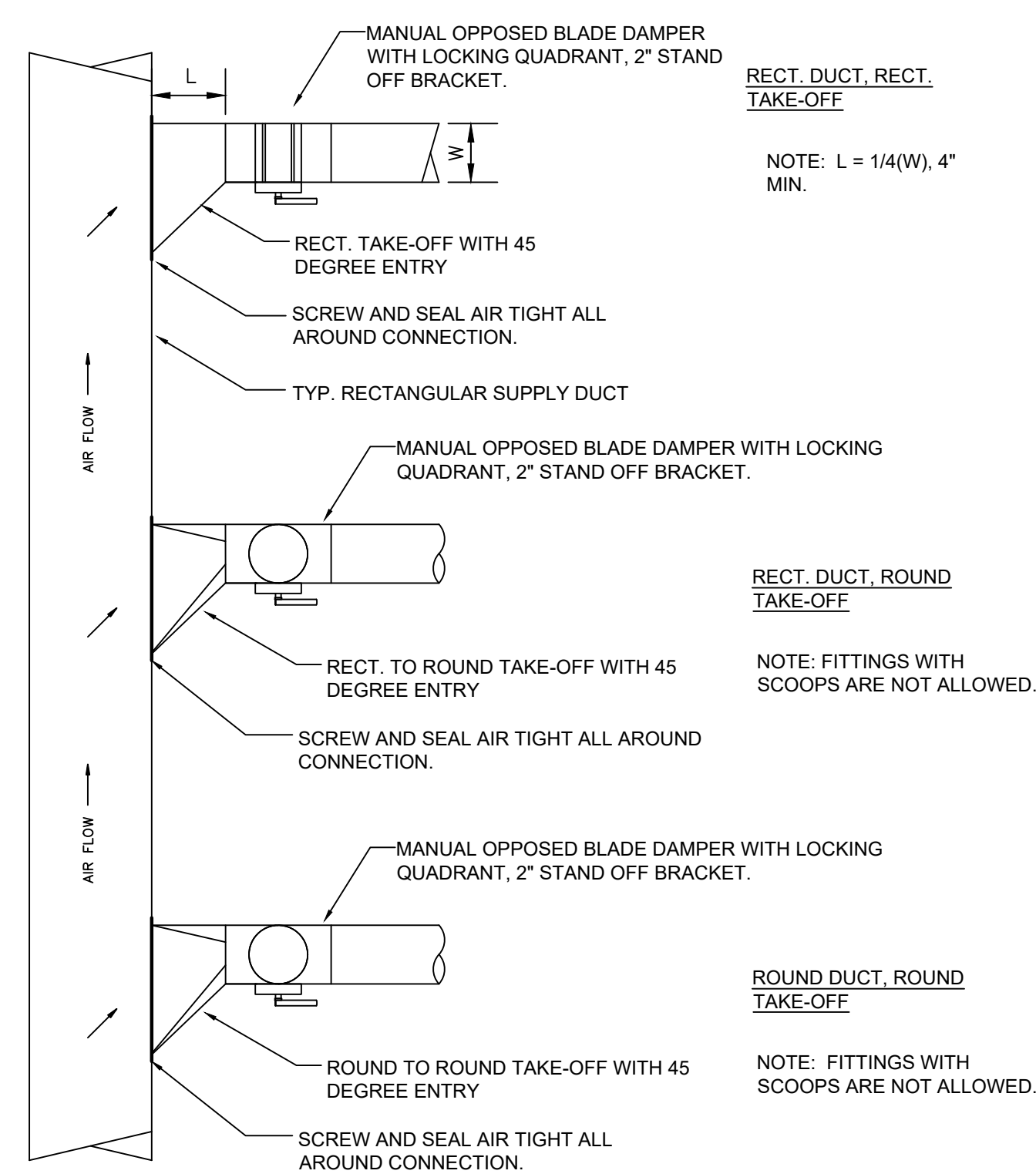
**FOR CONSTRUCTION**

VENTILATION AIR SUMMARY								
ZONE	DESIGN SQFT	CFM PER SQFT	DESIGN OCC	CFM PER OCC	OA EFF.	MIN OA CFM	ASHRAE 62.1 - IAQ	NOTES
FITNESS ROOM	788	.06	7	20	.80	234	105	1
VIRTUAL RANGE	310	.06	3	20	.80	98	45	1
						TOTAL	332	

- NOTES
- TOTAL REQUIRED VENTILATION REDUCED BY ASHRAE 62.1 INDOOR AIR QUALITY PROCEDURE. PROVIDE BI-POLAR IONIZATION DEVICES IN FAN COIL.

AIR DISTRIBUTION EQUIPMENT SCHEDULE		
TAG	DESCRIPTION	NOTES
A	STEEL SQUARE CONE DIFFUSER, FIXED AIR PATTERN, 4-WAY THROW, ROUND NECK, SIZED AS SHOWN, WHITE, LAY-IN FRAME, PRICE SCD.	1,2,3
B	HEAVY DUTY GYM RETURN GRILLE, 14 GAUGE STEEL, 0° DEFLECTION FIXED LOUVER, 3/4" BLADE SPACING, SIZE AS SHOWN, BLADES PARALLEL TO LONG DIMENSION, PRICE 95.	4

- NOTES
- VERIFY MOUNTING TYPE WITH ARCHITECTURAL RCP.
  - SUPPLY DIFFUSERS AND GRILLES SHALL NOT COME SUPPLIED WITH VOLUME DAMPERS UNLESS NOTED OTHERWISE. MANUAL VOLUME DAMPERS SHALL BE INSTALLED AT BRANCH TAKE-OFFS NEAR TRUNK (SEE DETAIL SHEET).
  - BACK INSULATION SHALL BE INCLUDED ON ALL SUPPLY DIFFUSERS AND GRILLES.
  - PROVIDE FULL SIZE LINED PLENUM, INTERIOR PAINTED FLAT BLACK.



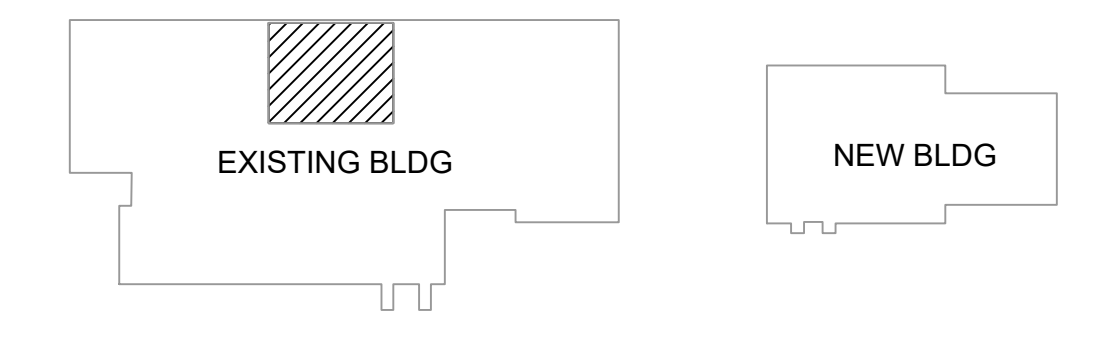
**KEY NOTES**

- DEMOLISH EXISTING RUNOUT AND DIFFUSER. PATCH TRUNK AND REPAIR INSULATION.
- DEMOLISH EXISTING RUNOUT. RETAIN EXISTING DIFFUSER FOR REUSE. REFER TO NEW WORK PLAN FOR NEW LOCATION. CLEAN DIFFUSER AND RETURN TO LIKE-NEW CONDITION.
- DEMOLISH PORTION OF EXISTING RETURN DUCT, AS INDICATED. RETAIN EXISTING RETURN GRILLE FOR REUSE. REFER TO NEW WORK PLAN FOR NEW LOCATION. CLEAN GRILLE AND RETURN TO LIKE-NEW CONDITION.
- REMOVE EXISTING THERMOSTAT AND MOVE TO NEW LOCATIONS. REFER TO NEW WORK PLAN FOR NEW LOCATION.
- NEW LOCATION FOR EXISTING DIFFUSER. FIELD COORDINATE W/ LIGHTING AND OTHER SYSTEMS IN THIS AREA. BALANCE DIFFUSER FOR CFM INDICATED IN DIFFUSER TAG.
- NEW LOCATION FOR EXISTING RETURN GRILLE. FIELD COORDINATE W/ LIGHTING AND OTHER SYSTEMS IN THIS AREA.
- BALANCE DIFFUSERS TO CFM VALUE INDICATED.
- EXTEND RETURN DUCT TO SHARED WALL. PROVIDE WALL MOUNTED RETURN GRILLE.

**GENERAL CONSTRUCTION NOTES**

- UNLESS DOOR IS NOTED TO HAVE A TRANSFER GRILLE INSTALLED, UNDERCUT RESTROOM, STORAGE CLOSET, AND JANITOR'S CLOSET DOORS 3/4" FOR PROPER MAKE-UP AIR FLOW.
- DRAIN HVAC CONDENSATE TO HUB DRAINS PROVIDED, UNLESS NOTED OTHERWISE. REFER TO PLUMBING DRAWINGS FOR EXACT LOCATION.
- COORDINATE DIFFUSER LOCATIONS WITH ARCH. REFLECTED CEILING PLAN AND LIGHTING PLAN.
- FIELD VERIFY EXACT CONDITIONS. PROVIDE NECESSARY ALTERATIONS REQUIRED TO MEET DESIGN INTENT.

**KEY PLAN**



PROJECT NUMBER  
23-021

DATE  
12/01/23

REVISIONS	
NO.	DATE
0000	00/00/00

FACILITY CODE  
000-0000



855 ABUTMENT ROAD  
SUITE FOUR  
DALTON, GA 30721  
TEL. 706.529.5895

A NEW BUILDING FOR:  
**DALTON POLICE DEPARTMENT**  
 WHITFIELD COUNTY  
 DALTON, GA 30720



SHEET NAME

EXISTING POLICE SERVICES  
BUILDING HVAC PLANS

SHEET INDEX

FOR CONSTRUCTION

M1.2

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SECTION 15850 - AIR DISTRIBUTION

PART 1 GENERAL

1.1 GENERAL

- A. Section 15010 is applicable.
- B. All general conditions of the contract apply.

1.2 BASIS OF DESIGN

- A. Acceptable manufacturers for products specified under this section are listed below.
  1. Flexible duct: Thermaflex, Flexmaster, Clecon
  2. Flexible equipment connections: Durodyne, Ventafabrics
  3. Volume control dampers: Ruskin, Greenheck, Nalor, United, Price
  4. Fire/Smoke dampers: Ruskin, Greenheck, Nalor, United
  5. Air diffusers and grilles: Price, Titus, Nalor, Metalaire

1.3 PRESSURE

- A. All new supply, return, outdoor air, and exhaust air ducts are to be STD, 1" static pressure type, class "A" seal, ASHRAE/SMACNA.

PART 2 PRODUCTS

2.1 METAL DUCTWORK

- A. Duct work shall be rectangular, oval, or round as shown on plans, and shall be fabricated from ASTM A653/A653M galvanized steel sheet, lock-forming quality. All fasteners shall be galvanized steel.
- B. Fabricate and support rectangular ducts in accordance with SMACNA HVAC Duct Construction Standards - Metal and Flexible. Provide duct material, gages, reinforcing, and sealing for operating pressures indicated.
- C. Fabricate and support round ducts with longitudinal seams in accordance with SMACNA HVAC Duct Construction Standards - Metal and Flexible (Round Duct Construction Standards). Provide duct material, gages, reinforcing, and sealing for operating pressures indicated.
  1. Construct T's, bends, and elbows with minimum radius 1-1/2 times centerline duct width. Where not possible and where rectangular elbows are used, provide turning vanes. Where acoustical lining is indicated, furnish turning vanes of perforated metal with glass fiber insulation.
  2. Increase duct sizes gradually, not exceeding 15 degrees divergence wherever possible; maximum 30 degrees divergence upstream of equipment and 45 degrees convergence downstream.
  3. Fabricate continuously welded round and oval duct fittings two gages heavier than duct gages indicated in SMACNA Standard. Minimum 4 inch cemented slip joint, brazed or electric welded. Prime coat welded joints.
  4. Provide standard 45-degree branch takeoffs per plans. When space does not allow 45-degree lateral wye takeoff, use 90-degree conical tee connections.
  5. Seal ducts to ASHRAE/SMACNA Class A standard. No cloth duct tape will be allowed.

2.2 FLEXIBLE DUCTWORK

- A. Flex duct connections are for connecting round galvanized duct to air distribution devices. Maximum allowed length of any flex duct section shall be 5'-0". Flex duct shall be two ply vinyl film supported by helical wound spring steel wire, fiberglass insulation; vapor barrier film. Minimum R-6, max velocity 4000 fpm, pressure rating 10 lpg positive and 1 lpg negative. Use R-8 in attics and spaces outside the building envelope. Temperature rating -20 degrees F to 200 degrees F. Basis of design is Thermaflex MK-E.

2.3 FLEXIBLE EQUIPMENT CONNECTIONS

- A. Flexible connections shall be used for all duct connections to HVAC equipment and fans. Flexible connections shall be per SMACNA chapter 7, Figure 7-7 and 7-8. Flexible material for indoor installation shall be airtight heavy glass fabric, double coated with neoprene.

2.4 VOLUME CONTROL DAMPERS

- A. Fabricate in accordance with SMACNA HVAC Duct Construction Standards - Metal and Flexible, and as indicated on Drawings.
- B. Fabricate splitter dampers of material matching duct gage to 24 inches size in each direction, and two gages heavier for larger sizes. Secure with continuous hinge or rod. Operate with minimum 1/4 inch diameter rod.
- C. Fabricate single blade dampers for duct sizes to 12 x 30 inch. Fabricate multi-blade damper of opposed blade pattern with maximum blade sizes 8 x 72 inch. Assemble center and edge crimped blades in prime coated or galvanized channel frame with suitable hardware.
- D. Furnish locking, indicating quadrant regulators on single and multi-blade dampers with 2" standoff brackets. Where width exceeds 30 inches, furnish regulator at both ends.

2.5 FIRE DAMPERS

- A. Damper shall be UL 555 listed and labeled as a 1-1/2 hour static fire damper. UL approved for dual directional air flow. Integral Sleeve Frame: Minimum 20 gage by 12 inches roll formed, galvanized steel. Apply factory sealant to dampers in HVAC systems with pressures to maximum 4 inches wg. Mill galvanized finish.
  1. Blades:
    - a. Style: Curtain type, out of airstream.
    - b. Action: Spring or gravity closure upon fusible link release.
    - c. Orientation: Horizontal or vertical as indicated on plans.
    - d. Material: Minimum 24 gage roll formed, galvanized steel.
  2. Closure Springs: Type 301 stainless steel, constant force type, if required.
  3. Temperature Release Device: fusible link, 165 degrees F.
- B. Type "B" fire dampers shall have no less than 90% free area, shall have 160 degree F fusible link, and integral 12" long 20 gauge integral sleeve and preformed picture frame mounting angles. Basis of design is Ruskin IBD2 Style B.
- C. For applications where damper is in wall without interconnecting duct, or where noted as such, damper frame shall be size shown on drawing and shall be type A.
- D. For applications where damper is in wall with a grille on both sides or on one side, use thin line type A damper, Ruskin IBDT or approved manufacturer listed above.
- E. Provide hinged, insulated access panels with part turn latches in ductwork to all fire dampers where access is not otherwise possible. Duct access panels shall be insulated and stenciled "F.D." with 2" high black letters on light surfaces, light letters on dark surfaces.
- F. Picture Frame Mounting Angles:
  1. One-piece, roll formed retaining angles 1-1/2 x 1-1/2 inches.
  2. Factory matched and shipped attached to damper.

2.6 TURNING DEVICES AND EXTRACTORS

- A. Multi-blade device with blades aligned in short dimension; steel or aluminum construction; with individually adjustable blades, mounting straps.
- B. Multi-blade device with radius blades attached to pivoting frame and bracket, steel or aluminum construction, with push-pull operator strap.

2.7 INSPECTION PANELS

- A. Inspection panels shall be installed in plenums and ductwork in order to facilitate inspection of filters, fans, dampers, and coils. Panels into spaces large enough for a person to enter shall be 24"x24" minimum. Panels into smaller spaces shall be 12"x12" minimum. Panels in insulated metal duct shall be 22 gauge galvanized frame with 24 gauge galvanized steel door panel and shall be gasketed, double wall insulated with 1" fiberglass insulation. Panels shall be piano hinged on one side with galvanized cam lock on the other. Inspection panels with sheet metal screw fasteners are not acceptable.

2.8 AIR OUTLETS AND INLETS

- A. Air diffusers and grilles are scheduled on the plans. No on-board dampers shall be allowed for ceiling mounted diffusers and grilles. Dampers should be purchased and installed separately at the point of each branch take-off from trunk ducts.

2.9 FILTERS

- A. Normal operating filters for all systems shall be disposable pleated media type filter of a size standard for the unit(s) installed.
- B. Construction phase filters shall be dry fiberglass media, double wall box panel type, of a size standard for the unit(s) installed. Only construction phase filters shall be used during construction, and normal operating filters shall be installed by contractor after final punch-out. Construction phase filters shall be checked regularly as the project progresses and changed as needed. Units shall not be run without filters.
- C. For projects with DDC systems, dirty filter switches shall be installed on equipment filters to indicate, through the DDC, when these filters are dirty.

2.10 ELECTRICAL CHARACTERISTICS AND COMPONENTS

- A. Electrical characteristics of powered equipment are shown on the Div. 16 plans.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify sizes of equipment connections before fabricating transitions.
- B. Verify rated walls are ready for fire damper installation.
- C. Verify ducts and equipment are ready for installation and accessories.
- D. Check location of air outlets and inlets and make necessary adjustments in position to conform to architectural features, symmetry, and lighting arrangement.

3.2 FIRE DAMPERS

- A. Install fire dampers at locations shown on drawings. Installation of fire dampers shall comply with SMACNA Fire, Smoke, and Radiation Damper Installation Guide for HVAC systems.
  1. Basic installation Figure 1
  2. Breakaway connections Figure 2
  3. Specific Installation Figure 5
  4. Damper out of wall Figure 12
  5. Opening protection Figure 15
- B. Fire damper openings in metal stud walls shall be internally framed on four sides from vertical members for rigid support of opening with internal gypsum board liner per SMACNA installation guide or manufacturer's guidelines for installation in metal stud walls.

3.3 METAL DUCTS

- A. Install in accordance with SMACNA Duct Construction Standards - Metal and Flexible, for pressures and seal as specified herein.
- B. During construction install temporary closures of metal or taped polyethylene on open ductwork to prevent construction dust from entering ductwork system.

3.4 FLEXIBLE DUCTS

- A. Flex duct connections shall be made with a band on inner liner and another band to secure vapor jacket. Max length of any flexible duct section is 5'-0". Tape all loose ends with foil tape, no cloth duct tape is allowed.

3.5 FLEXIBLE EQUIPMENT CONNECTIONS

- A. Install on inlets and outlets of all powered equipment prior to any duct hangers. Manufacturer shall provide with equipment where option is available. Install connecting duct in a straight line with equipment connection, and prevent flexible connection from being in tension while equipment is running.

3.6 DUCT SMOKE DETECTORS

- A. Shall be provided and wired by Division 16, installed in duct by Division 15.

3.7 FILTERS

- A. Prevent passage of unfiltered air around filters by installing felt, rubber, or neoprene gaskets.
- B. Install filter gage static pressure taps upstream and downstream of filters. Mount filter gages on outside of filter housing or filter plenum, in accessible position. Adjust and level.

3.8 INSPECTION PANELS

- A. Install inspection panels at the following locations and as indicated on drawings:
  1. Before and after each automatic control damper.
  2. Before and after each fire, smoke, and/or combination fire and smoke damper.
- B. Access Door Sizes: Install minimum 12 x 12 inch size for hand access, 18 x 18 in. size for shoulder access. Review locations prior to fabrication.
  1. Mark access doors for fire and smoke dampers on outside surface, with minimum 2 in. high letters reading: FIRE/SMOKE DAMPER, SMOKE DAMPER, OR FIRE DAMPER.

3.9 AIR DIFFUSERS AND GRILLES

- A. Install balancing dampers for diffusers and grilles at branch take-off from main trunk, no dampers allowed on-board diffusers or grilles unless explicitly specified on plans. Do not install manual volume dampers next to grilles unless required by field conditions.
- B. Do not locate air registers, diffusers or grilles in floors of toilet or bathing rooms.
- C. Paint ductwork, cans, and plenums visible behind air outlets and inlets matte black.
- D. Install safety screen where fan inlet or outlet is exposed.

END OF SECTION

SECTION 15950 - TESTING, ADJUSTING, AND BALANCING

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
  1. Testing, adjusting, and balancing of air systems.
- B. The Contractor shall obtain the services of an independent test, adjustment, and balance (TAB) agency to test, adjust, and balance:
  1. Each supply, return, exhaust, relief, and outdoor air distribution systems.
- C. The Contractor and the TAB Agency shall review the proposed system installations and determine all measuring and balancing devices required for proper test and balance of the systems. These shall include, but not be limited to, manual air volume balancing dampers, etc. The Contractor shall be responsible for providing these in the locations recommended by the TAB Agency, in addition to any shown on the drawings. These devices shall be provided under the Contract.
- D. Instruments used for testing and balancing shall have been calibrated within a period of six months of the time of the testing and balancing and such instruments shall be checked for accuracy prior to the start of the work. Submit verification for certification to the Architect and the Owner.
- E. Perform Work in accordance with AABC National Standards, latest addition. TAB shall include all equipment and distribution systems and shall be reported, as a minimum, on forms as published by the AABC, NEBB, or approved equal. Report shall include a diagram(s) of each system showing all devices in the system.
- F. The TAB Agency shall, unless approved by the Owner, be an AABC or NEBB member and the work shall be done by an AABC or NEBB certified TAB Technician and Commissioning Agent.
- G. All corrections required by the report shall be executed by the Contractor to the satisfaction of the Owner, Architect, Engineer, and TAB agency. All costs associated with testing and balancing, as well as costs of any necessary re-testing, shall be borne by the Contractor.
- H. Testing and Balancing Agency shall be kept informed of any major changes made to the systems during construction, and shall be provided with a complete set of contract documents, as-built drawings, approved submittals, applicable specification sections, addenda and change orders.

1.2 SUBMITTALS

- A. Draft Reports: Submit for review prior to final acceptance of Project.
- B. Test Reports: Submit prior to final acceptance of Project and for inclusion in operating and maintenance manuals. Assemble in soft cover, letter size, 3-ring binder, with table of contents page and tabs, and cover identification. Include reduced scale drawings with air outlets and equipment identified to correspond with data sheets, and indicating thermostat locations.

PART 2 EXECUTION

2.1 EXAMINATION

- A. Before starting work, verify systems are complete and operable.
- B. The TAB Agency shall check refrigerant superheat settings.
- C. The TAB Agency shall test drain pans for proper drainage under operating conditions.
- D. Report defects, deficiencies, or abnormal conditions in mechanical systems preventing system balance to Owner, Architect, and Engineer.
- E. Beginning of work means acceptance of existing conditions.

2.2 INSTALLATION TOLERANCES

- A. Air Handling Systems: Adjust to within plus or minus 5 percent of design for supply systems and plus or minus 10 percent of design for return and exhaust systems.
- B. Air Outlets and Inlets: Adjust to within plus or minus 10 percent of design.

2.3 AIR SYSTEM PROCEDURE

- A. Examine all air handling systems to see that they are free from obstructions that may prevent proper balancing of system.
- B. Ensure that all dampers, grilles, and registers are open or in normal positions, that moving equipment is lubricated, filters are installed and clean, and perform other inspection and maintenance activities to ensure that the operation of the system is as specified.
- C. Adjust air handling and distribution systems to deliver design supply, return, and exhaust air quantities within previously stated tolerances.
- D. Make air quantity measurements in ducts by traverse of entire cross sectional area of duct.
- E. Measure air quantities at air inlets and outlets.
- F. Use volume control devices to regulate air quantities only to extent those adjustments do not create objectionable air motion or sound levels. Change volume using dampers mounted in ducts, not dampers on ceiling diffusers. Leave dampers on ceiling diffusers open for seasonal adjustment by Owner.
- G. Vary total system air quantities by adjustment of fan speeds. Vary branch air quantities by damper regulation.
- H. Measure static air pressure conditions on air supply units, including filter and coil pressure drops, and total pressure across fan. Allow for pressure drop equivalent to 50 percent loading of filters.
- I. Adjust automatic outside air, return air, and exhaust air dampers for design conditions.
- J. Measure temperature conditions across outside air, return air, and exhaust air dampers to check leakage.
- K. At modulating damper locations, take measurements and balance at extreme conditions.
- L. The TAB Agency shall check all the systems operating together to ensure that the air conditioning spaces are under an overall positive pressure.

2.4 FIELD QUALITY CONTROL

- A. Verify recorded data represents actually measured or observed conditions.
- B. Permanently mark settings of valves, dampers, and other adjustment devices. Set and lock memory stops.

END OF SECTION

PROJECT NUMBER  
23-021

DATE  
12/01/23

REVISIONS

NO.	DATE
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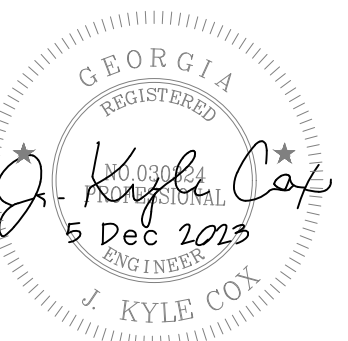
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SHEET NAME

MECHANICAL  
SPECIFICATIONS

SHEET INDEX

M2.3

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**GENERAL PLUMBING NOTES**

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST ACCEPTED VERSION OF THE INTERNATIONAL PLUMBING CODE (IPC) WITH ADOPTED STATE AMENDMENTS AND ALL APPLICABLE LOCAL CODES AND ORDINANCES.
- PLUMBING FIXTURES SHALL BE "HIGH EFFICIENCY" WITH WATER SENSE COMPLIANT FLOW OR FLUSH RATES AS REQUIRED BY GEORGIA AMENDMENTS TO THE IPC.
- EXPOSED FIXTURES: CHROME PLATED BRASS AND COPPER TUBING WITH THREADED PLATED BRASS FITTINGS.
- JOIN PIPES OF DISSIMILAR METALS WITH DIELECTRIC UNIONS OR SIMILAR ISOLATING DEVICES. DO NOT DIRECTLY CONNECT TO PIPES OF DISSIMILAR METALS.
- ROUTE PIPING PARALLEL TO BUILDING STRUCTURE AND MAINTAIN GRADIENT.
- INSTALL PIPING TO MAINTAIN HEADROOM. GROUP PIPING TO CONSERVE SPACE. GROUP PIPING WHENEVER PRACTICAL AT COMMON ELEVATIONS.
- INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS, OR CONNECTED EQUIPMENT.
- PROVIDE CLEARANCE IN HANGERS AND FROM STRUCTURE AND OTHER EQUIPMENT FOR INSTALLATION OF INSULATION AND ACCESS TO VALVES AND FITTINGS.
- SLEEVE PIPE PASSING THROUGH PARTITIONS, WALLS AND FLOORS.
- INSTALL IDENTIFICATION ON PIPING SYSTEMS OR INSULATION COVERINGS INCLUDING UNDERGROUND PIPING PER PIPE LABELING DETAIL. LABELS SHALL INCLUDE NAME OF FLUID INSIDE PIPE ALONG WITH DIRECTIONAL FLOW ARROWS. ALL GAS PIPING SHALL BE PAINTED YELLOW WITH PIPE MARKERS APPLIED AFTER PAINTING. NON-STEEL GAS PIPING SHALL HAVE LABELS APPLIED NOT EXCEEDING 5 FEET APART.
- PROTECT PIPING SYSTEMS FROM ENTRY OF FOREIGN MATERIALS BY TEMPORARY COVERS, COMPLETING SECTIONS OF THE WORK, AND ISOLATING PARTS OF COMPLETED SYSTEM.
- CONTRACTOR SHALL SECURE AND PAY FOR ALL FEES AND PERMITS REQUIRED TO ACCOMPLISH THE WORK SHOWN.
- BEFORE COMMENCEMENT OF WORK, CONTRACTOR SHALL VERIFY EXACT LOCATIONS, ELEVATIONS, AND CHARACTERISTICS OF UTILITIES AND PIPING AND SHALL NOTIFY ARCHITECTS OF ANY DISCREPANCIES. PIPE SLOPES SHOULD BE VERIFIED TO ENSURE PROPER ELEVATIONS ARE OBTAINED AT CONNECTION POINTS.
- EXACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES SHALL BE OBTAINED FROM ARCHITECTURAL DRAWINGS.
- CONTRACTOR SHALL MAKE ALL ARRANGEMENTS WITH UTILITY COMPANIES FOR SERVICE AND CONNECTIONS AND SHALL PAY FOR ALL FEES, CHARGES, PERMITS, AND METERS.
- ALL SANITARY DRAINAGE PIPES 2" AND SMALLER SHALL BE SLOPED AT 1/4" PER FOOT MINIMUM, AND ALL SANITARY DRAINAGE PIPES 3" AND LARGER SHALL BE SLOPED AT 1/8" PER FOOT MINIMUM. GREASE WASTE PIPES SHALL ALL BE SLOPED AT MIN. 1/4" PER FOOT.
- ALL PIPING ABOVE GRADE SHALL BE PROPERLY SUPPORTED FROM THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR BE SUPPORTED FROM CEILING TILES.
- LOCATE ALL SECTIONAL OR MAIN CONTROL VALVES WITHIN 1'-0" OF ACCESS PANELS, CELING TILES, OR OTHER POINTS OF ACCESS.
- PLUMBING AND FIRE PROTECTION PIPING IS NOT TO BE INSTALLED IN ELECTRICAL ROOMS, CLOSETS, TELEPHONE ROOMS, OR ELEVATOR EQUIPMENT ROOMS EXCEPT PIPING SERVING THAT ROOM.
- WATER PIPING ROUTED ABOVE CEILING AND IN EXTERIOR WALLS SHALL BE ROUTED ON HEATED SIDE (UNDERSIDE) OF CEILING INSULATION AND HEATED SIDE (INSIDE) OF WALL INSULATION.
- TOPS OF ALL FLOOR DRAINS AND FLOOR CLEANOUTS SHALL BE LEVEL WITH FINISHED FLOOR AT INSTALLATION LOCATION TO PREVENT TRIP HAZARDS - FLOORS SHALL SLOPE TO FLOOR DRAINS.
- PRIME ALL FLOOR DRAIN AND INDIRECT DRAIN TRAPS WITH WATER BASED TRAP PRIMERS AS SHOWN ON PLANS. MECH. TRAP GUARDS MAY BE USED IN LIEU OF WATER BASED TRAP PRIMERS WHERE THE AUTHORITY HAVING JURISDICTION ALLOWS.
- ALL VENT AND FLUE OUTLETS SHALL BE 10'-0" MINIMUM FROM ANY FRESH AIR INTAKE.
- DURING THE PROGRESS OF THE PROJECT, MAINTAIN AN ACCURATE RECORD OF ALL CHANGES MADE IN THE PLUMBING SYSTEMS. THE RECORD DRAWING SHALL SHOW CHANGES IN MANUFACTURER (WITH NUMBERS AND TRADE NAMES), MATERIALS, SIZES, LOCATIONS, AND HOOK-UP POINTS. AS-BUILTS SHALL BE GIVEN TO OWNER'S CONSTRUCTION MANAGER AT COMPLETION OF JOB.
- UPON COMPLETION OF THIS JOB, CONTRACTOR SHALL INSPECT ALL EXPOSED PORTIONS OF THE PLUMBING INSTALLATION AND COMPLETELY REMOVE ALL EXPOSED LABELS, SOIL, MARKINGS, AND FOREIGN MATERIAL EXCEPT PRODUCT LABELS AND THOSE REQUIRED BY THESE PLANS.
- CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL DRAWINGS AND THE ELECTRICAL CONTRACTOR, AND SHALL FURNISH EQUIPMENT WIRE FOR THE VOLTAGES SHOWN THEREIN. PLUMBING CONTRACTOR SHALL WIRE AND START ALL ELECTRICAL PLUMBING EQUIPMENT, ELECTRICAL CONTRACTOR SHALL PROVIDE WIRING, CONDUIT, BREAKERS, AND OTHER APPROPRIATE ELECTRICAL EQUIPMENT.
- ALL PLUMBING EQUIPMENT, PIPING, INSULATION, ETC. INSTALLED IN HVAC PLENUM SPACES SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABELED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E84 OR UL 723.
- ALL PIPE PENETRATIONS OF FIRE OR SMOKE RATED ASSEMBLIES SHALL BE FIRE STOPPED AS REQUIRED TO RESTORE ASSEMBLY TO ORIGINAL INTEGRITY. FIRE BARRIER PRODUCTS SHALL BE AS MANUFACTURED BY 3M COMPANY, CP25 CAULK, CS195 COMPOSITE PANEL, FS195 WRAP/SHRINK, OR PSS 7900 SERIES SYSTEMS AS RECOMMENDED BY MANUFACTURER FOR PARTICULAR APPLICATIONS, OR EQUIVALENT SYSTEM AS APPROVED BY LOCAL CODE OFFICIALS.
- ALL VENT THRU ROOF PENETRATIONS SHALL BE ROUTED TO TERMINATE AT THE LEAST VISIBLE LOCATION FROM THE ENTRY VIEW.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY PRODUCTS AND MATERIALS FOR A COMPLETE PLUMBING SYSTEM.
- EQUIPMENT AND PIPING LOCATIONS AND ROUTING SHOWN ARE DIAGRAMMATIC AND INTENDED TO SHOW THE INTENT OF THE DESIGN. COORDINATE FINAL LOCATIONS AND PIPE ROUTING WITH ARCHITECTURAL PLANS AND FIELD CONDITIONS.
- TEMPER ALL HAND WASHING SINKS TO A MAXIMUM OF 110 DEG. F. USING ASSE 1070 TEMPERATURE LIMITING DEVICE, ALL OTHER LOCATIONS TO A MAXIMUM OF 120 DEG. F UNLESS HIGHER TEMPERATURES ARE REQ'D FOR PROPER OPERATION.
- ALL FIXTURES USING PRESSURIZED WATER SUPPLIES SHALL BE INSTALLED WITH SHUT OFF VALVES FOR ISOLATION AND SERVICE.
- CONTRACTOR SHALL FIELD COORDINATE REQUIRED DRAIN PIPE INVERTS WITH SITE CONTRACTOR BEFORE ORDERING PIPE.
- CONTRACTOR SHALL HAVE A THOROUGH COORDINATION AND CONSTRUCTABILITY MEETING WITH ALL JOB TRADES BEFORE FINAL PRICING/BUDGETING OR PURCHASING ANY EQUIPMENT, AND ENGINEER SHALL BE NOTIFIED BEFORE FINAL PRICING/BUDGETING OR PURCHASING ANY EQUIPMENT OF CONFLICTS, DISCREPANCIES, OR OTHER ISSUES THAT MAY INCREASE PROJECT COST SO THAT ISSUES MAY BE RESOLVED BEFORE PRICING. THESE PLANS WERE DEVELOPED BASED ON THE ARCHITECTURAL PLANS AVAILABLE AT THE TIME OF DESIGN, AND ARE DIAGRAMMATIC IN NATURE.
- ALL PIPING ACCESSORIES INSTALLED UNDERGROUND INCLUDING, BUT NOT LIMITED TO SHUT OFF VALVES, BACKFLOW DEVICES, PRESSURE REDUCING VALVES, ETC. SHALL BE INSTALLED IN A BOX OR VAULT FOR SERVICEABILITY AND PROTECTION. THESE DEVICES SHALL NOT BE DIRECT BURIED BELOW GRADE.
- MAX. "DEAD LEG" LENGTH OF ANY PIPING SHALL BE 12 INCHES.

PLUMBING LEGEND		
SYMBOL	DESCRIPTION	ABBREVIATION
	ABOVE FINISHED CEILING	AFC
	ABOVE FINISHED FLOOR	AFF
	BELOW COUNTER	B/C
	BELOW FINISHED FLOOR	BFF
	BELOW GRADE	B/G
	DOMESTIC COLD WATER PIPING	CW
	DOMESTIC HOT WATER PIPING	HW
	VENT PIPE	V
	SANITARY SOIL	SS
	VENT THROUGH ROOF OR WALL	VTR OR VTW
	FLOOR CLEANOUT	FCO
	FLOOR DRAIN	FD
	FLOOR SINK (INDIRECT DRAIN)	FS
	WALL CLEANOUT	WCO
	CLEANOUT TO GRADE	COTG
	P-TRAP	
	PRESSURE REDUCING VALVE	PRV
	BACKFLOW PREVENTER	BP
	BALL VALVE	
	UNION	
	PRESSURE REDUCING VALVE	
	BLIND FLANGE/CAP	
	PIPING CONNECTION ON TOP	
	PIPING CONNECTION ON BOTTOM	
	ELBOW TURNED DOWN	
	ELBOW TURNED UP	
	THERMOMETER	
	CONNECT TO EXISTING	CTE

PIPING LABEL COLOR GUIDE		
PIPING SYSTEM FLUID	LABEL COLOR	TEXT COLOR
DOMESTIC COLD WATER	SAFETY GREEN	WHITE
DOMESTIC HOT WATER	SAFETY GREEN	WHITE
FIRE PROTECTION FLUIDS	SAFETY RED	WHITE

SIZE OF LEGEND LETTERS		
PIPE OR PIPE COVERING OUTER DIAM. (IN.)	LENGTH OF COLOR FIELD (IN.)	SIZE OF LETTERS (IN.)
3/4" TO 1-1/4"	8"	1/2"
1-1/2" TO 2"	8"	3/4"
2-1/2" TO 6"	12"	1-1/4"
8" TO 10"	24"	2-1/2"
OVER 10"	32"	3-1/2"

**NOTES:**

- IF AN EXISTING PIPE LABELING/MARKING SCHEME IS USED IN THE FACILITY, MATCH EXISTING SCHEME IN LIEU OF THESE DIRECTIONS.
- LABEL TEXT SHOULD MATCH FLUIDS IN TABLE, AND SHOULD INCLUDE FLOW ARROWS INDICATING DIRECTION OF FLUID FLOW.
- IF FLUIDS MAY FLOW IN TWO DIRECTIONS, ARROWS SHOULD INDICATE SUCH.
- APPLY LABELS SO THAT THEY ARE EASILY READABLE BY OCCUPANTS OR EMPLOYEES. FOR EASE OF READING, LABELS SHOULD BE APPLIED ON BOTTOM OF PIPES THAT ARE ABOVE OCCUPANT LEVEL, ON TOP OF PIPES THAT ARE BELOW OCCUPANT LEVEL, AND ON SIDE OF PIPES THAT ARE AT OR NEAR OCCUPANT LEVEL.
- FOR PIPES SMALLER THAN 3/4", USE PERMANENTLY ENGRAVED LABELS AFFIXED TO PIPES.
- APPLY LABELS NEAR VALVES, BRANCHES, WHERE A CHANGE IN DIRECTION OCCURS, AT ENTRY AND RE-ENTRY POINTS THRU WALLS, FLOORS, ROOFS, AND ON STRAIGHT SEGMENTS WITH SPACING BETWEEN LABELS THAT ALLOWS FOR EASY IDENTIFICATION.
- PIPING SYSTEMS CONVEYING GASEOUS CONTENTS SHALL HAVE SYSTEM DESIGN PRESSURE INDICATED ON THE LABEL IN ADDITION TO SYSTEM FLUID AND DIRECTIONAL ARROWS. NATURAL AND PROPANE GAS LABELS ON NON-STEEL PIPING SHALL BE APPLIED AT INTERVALS NOTE EXCEEDING 5 FEET.
- THESE LABELING GUIDELINES DO NOT APPLY TO MEDICAL GAS AND VACUUM SYSTEMS. FOR THESE TYPES OF SYSTEMS, REFER TO THE LOCAL CODE OFFICIALS' LATEST ACCEPTED VERSION OF NFPA 99.

PLUMBING FIXTURE SCHEDULE						
TAG	FIXTURE	PIPING CONNECTION SIZES				SPECIFICATION
		S.S.	V.	C.W.	H.W.	
HWC	FLUSH VALVE WATER CLOSET, ADA.	3"	3"	1"		<ul style="list-style-type: none"> <li>HANDICAP WATER CLOSET SHALL BE FLOOR MOUNTED FLUSH VALVE TYPE WITH ELONGATED BOWL AND 1.28 GPF FLUSH. SEAT SHALL BE COMMERCIAL TYPE WITH OPEN FRONT. INCLUDE ALL REQUIRED HARDWARE FOR A COMPLETE INSTALLATION.</li> <li>FIXTURE: KOHLER K-4405, 10" ROUGH-IN</li> <li>SEAT: KOHLER K-4670</li> <li>FLUSH VALVE: SLOAN, CROWN MODEL 111-1.28</li> </ul>
LAV	WALL MOUNT LAVATORY, PUBLIC (0.5 GPM)	2"	2"	1/2"	1/2"	<ul style="list-style-type: none"> <li>KOHLER K-2035, ADA COMPLIANT, WHITE VITREOUS CHINA WALL MOUNT SINK, REAR CENTER DRAIN WITH OVERFLOW, 2 HOLE DRILLING ON 4" CENTERS, 21-1/4" L-R X 18-1/8" F-B X 7-1/4" DEEP, INCLUDE WALL CARRIER.</li> <li>KOHLER 8998 P-TRAP</li> <li>DELTA 501 FAUCET, POLISHED CHROME.</li> <li>MCGUIRE 151 BRASS STRAINER.</li> <li>MCGUIRE B-2165 QUARTER TURN BALL VALVE STOPS AND SUPPLIES</li> <li>WATTS LFUSG-B UNDER SINK GUARDIAN THERMOSTATIC MIXING VALVE</li> </ul>
SK-1	SINGLE BASIN KITCHEN SINK	2"	2"	1/2"	1/2"	<ul style="list-style-type: none"> <li>JUST SLN-ADA-1933-A-GR, 18 GA STAINLESS STEEL, DROP-IN, 6" DEPTH.</li> <li>DELTA 440 FAUCET w/ 1.5 GPM FLOW RATE.</li> <li>WATTS LFUSG-B UNDER SINK GUARDIAN THERMOSTATIC MIXING VALVE</li> </ul>
SK-2	LAB SINK w/ SIDE BOARDS	2"	2"	1/2"	1/2"	<ul style="list-style-type: none"> <li>EPOXY RESIN, SINGLE BASIN, UNDERMOUNT, BLACK SINK w/ DOUBLE SIDE-BOARD, CENTER DRAIN</li> <li>FIXTURE: FISHERBRAND 25"x15"x10" w/ UNDERMOUNT SINK SUPPORT ASSEMBLY</li> <li>FAUCET: SPEAKMAN SC-3004-FC-LD</li> <li>WATTS LFUSG-B UNDER SINK GUARDIAN THERMOSTATIC MIXING VALVE</li> </ul>
EYE	EMERGENCY EYEWASH	2"	2"	1/2"	1/2"	<ul style="list-style-type: none"> <li>FAUCET MOUNTED EYE WASH STATION, FISHER SCIENTIFIC MODEL: FISHERBRAND EYESAFE FAUCET-MOUNTED EYEWASH</li> <li>TWIN SPRAYHEAD REMOVABLE OUTLET CAPS</li> <li>ACTUATOR PULL-PIN ACTIVATION</li> </ul>
MOP	JANITOR'S MOP SINK	3"	2"	1/2"	1/2"	<ul style="list-style-type: none"> <li>SERVICE/JANITOR'S SINK SHALL BE BOTTOM-DRAINING, FLOOR-MOUNTED, 12" DEEP, CORNER-TYPE, FAUCET w/ 1/2" DIAMETER RUBBER HOSE, HOSE CLAMP, INTEGRAL RIM GUARD, STAINLESS STEEL SPLASH PANELS, AND INCLUDE ALL PARTS FOR COMPLETE INSTALLATION.</li> <li>FIXTURE: STERN WILLIAMS CRS-2210</li> <li>FAUCET: STERN WILLIAMS T-10-VB</li> <li>WATTS LFUSG-B UNDER SINK GUARDIAN THERMOSTATIC MIXING VALVE, MOUNTED ABOVE CEILING</li> <li>PROVIDE ACCESSIBLE INLINE CHECK VALVES ON HOT AND COLD SUPPLY PIPES.</li> </ul>
NFWH	WALL HYDRANT			1/2"		<ul style="list-style-type: none"> <li>NON-FREEZE TYPE</li> <li>WOODFORD, MODEL B65</li> <li>PROVIDE KEYPAD BOX</li> </ul>
WCO/GCO/FCO	WALL/GRADE/ FLOOR CLEANOUT					<ul style="list-style-type: none"> <li>SEE PLUMBING SPECIFICATIONS 15100 - 2.10</li> </ul>
FD/FS	FLOOR DRAIN	3"				<ul style="list-style-type: none"> <li>SEE PLUMBING SPECIFICATIONS 15100 - 2.9</li> </ul>
HD	HUB DRAIN	3"		1/2"		<ul style="list-style-type: none"> <li>CONDENSATE DRAIN HUB DRAIN</li> <li>SEE PLUMBING DETAILS</li> </ul>

SUMP PUMP SCHEDULE							
TAG	BASIS OF DESIGN	FLOW (GPM)	HEAD (FT)	HORSE POWER	DISCHARGE CONN.(IN.)	PWR	NOTES
SP-1	STANCORE, SE-50	74	37	1/2	2	SEE DIV. 16	1,2

**NOTES**

- PUMP IS BASED ON 110V MODEL
- INCLUDE OIL MINDER CONTROLS AND ROUTE DISCHARGE PIPING PER PLANS.

DOMESTIC WATER HEATER SCHEDULE										
TAG	BASIS OF DESIGN	STORAGE CAPACITY (GAL.)	TOTAL INPUT (KW)	NO. OF ELEMENTS, KW EA.	100 F RECOV. (GPH)	STORAGE TEMP. (DEG F)	WATER CONN. (IN.)	SHIP WEIGHT (LBS.)	POWER	NOTES
EW-1	LOCHINVAR LDJ-20-JP	20	6.0	1	24	140	3/4	50	SEE DIV. 16	1,2,3

**NOTES**

- BASIS OF DESIGN IS LOCHINVAR. ALTERNATE MANUFACTURERS: A.O.SMITH, RHEEM
- EXPANSION TANK
- PROVIDE ALL APPURTENANCES FOR A FULLY FUNCTIONING, CODE COMPLIANT WATER HEATING SYSTEM BASED ON IPC, PLANS, NOTES, AND DETAILS.

GAS LOAD SCHEDULE		
TAG	GAS LOAD (MBH)	CONNECTION SIZE (in.)
GFU-1	40	1/2
GFU-2	40	1/2
GFU-3	40	1/2
GFU-4	80	1/2
GENERATOR	1,175	3/4
TOTAL	1,375	

CONFIRM CONNECTION SIZE W/ MANUFACTURER'S REQUIREMENTS

PROJECT NUMBER  
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DALTON, GA 30720



**SHEET NAME**

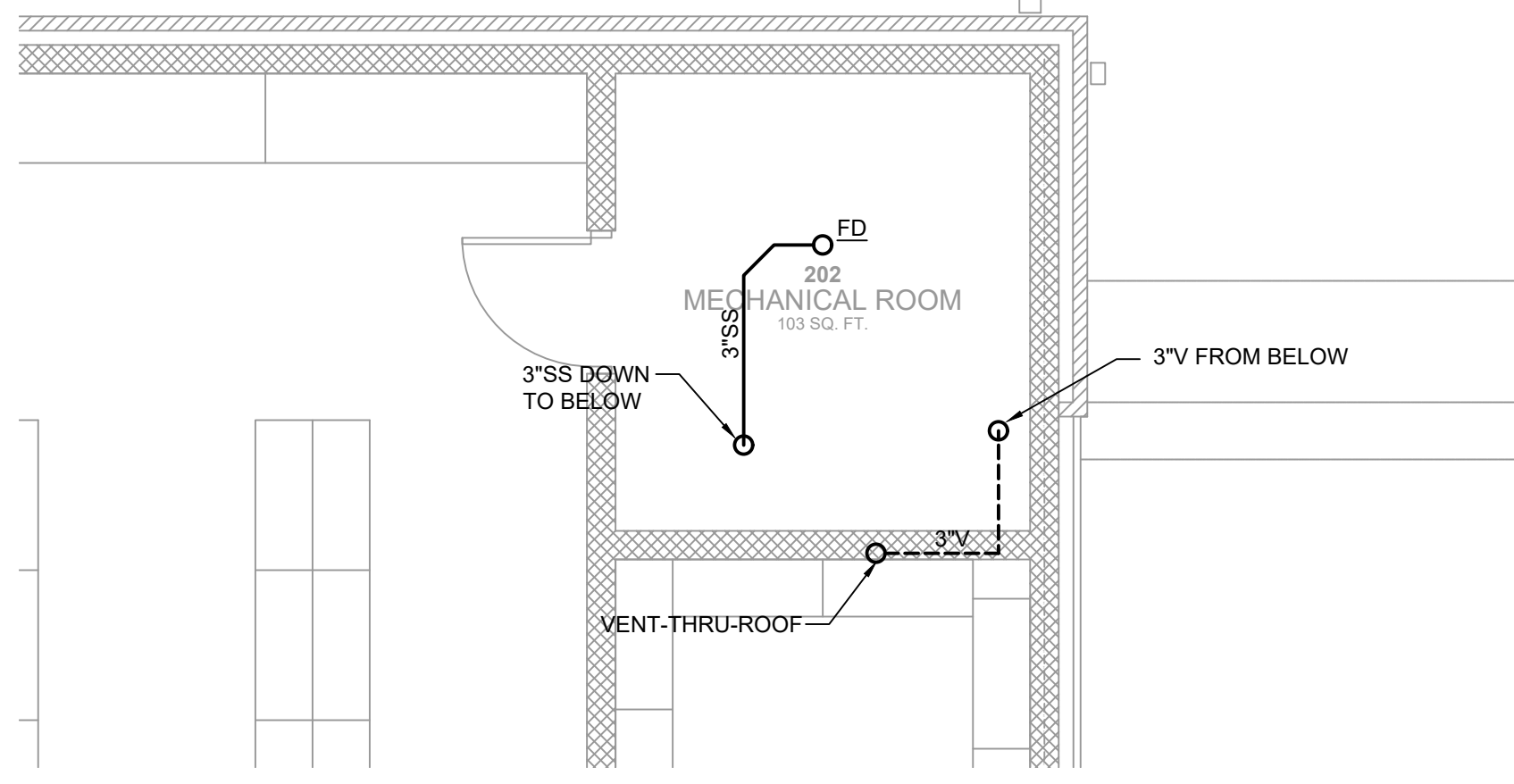
PLUMBING  
SCHEDULES,  
NOTES, & LEGEND

**SHEET INDEX**

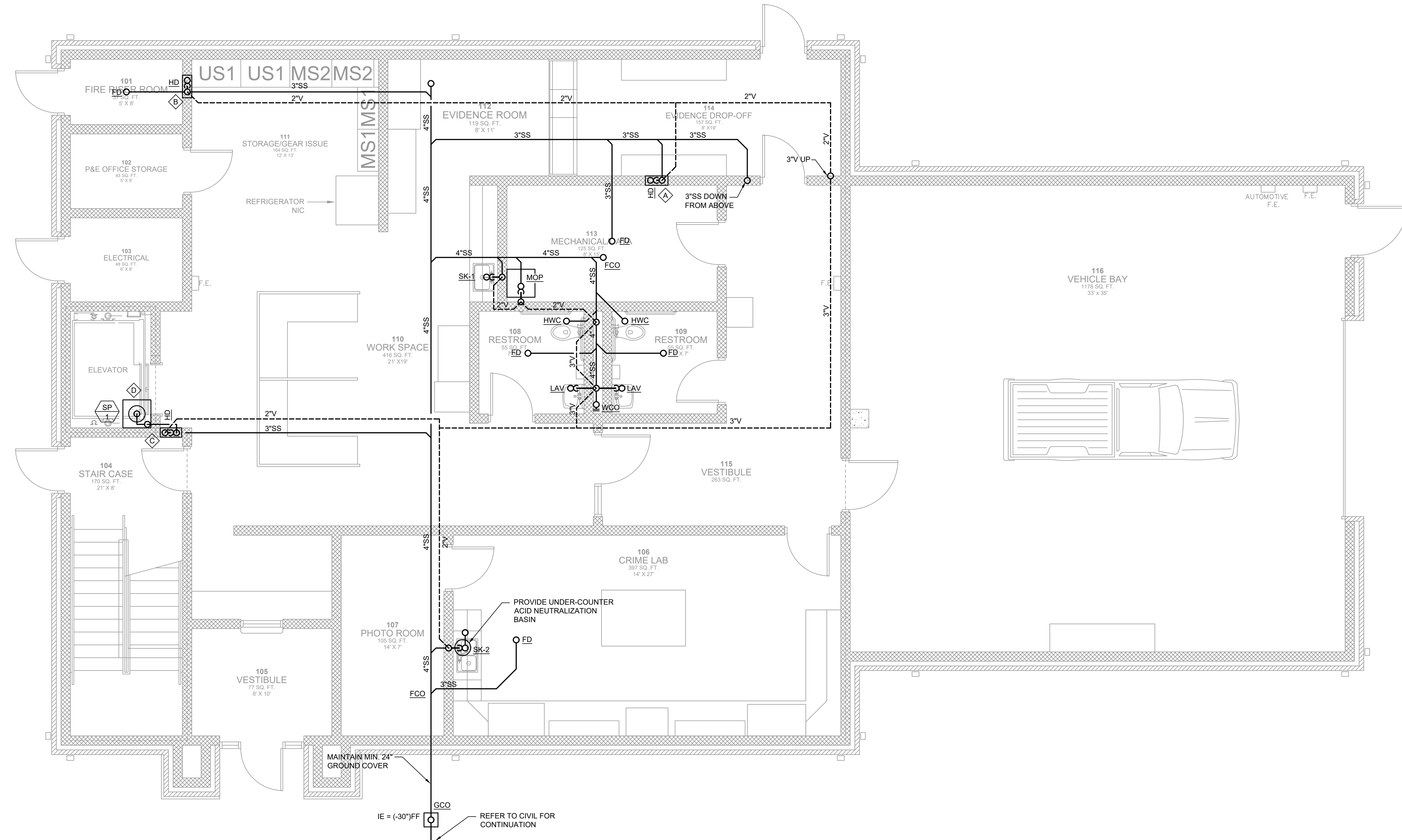
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**LEVEL 2 - SANITARY WASTE & VENT PLAN**  
SCALE: 1/4" = 1'-0"

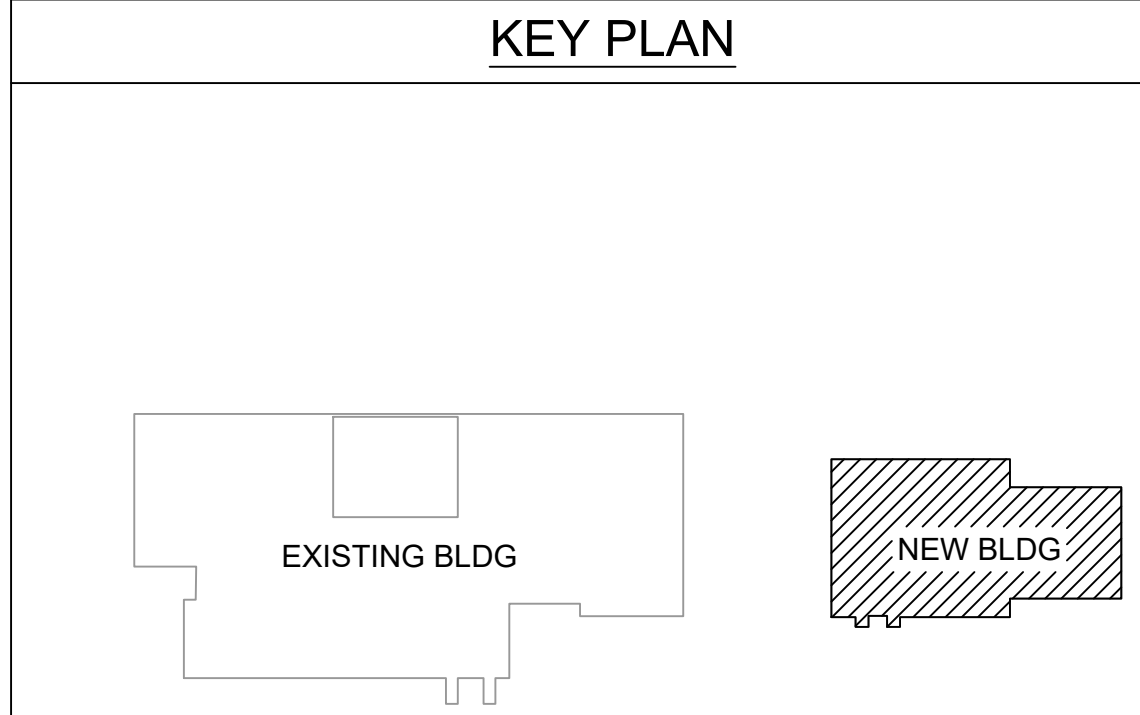


**LEVEL 1 - SANITARY WASTE & VENT PLAN**  
SCALE: 1/4" = 1'-0"

**KEY NOTES**

- PROVIDE HUB DRAIN FOR CONDENSATE LOCATED IN WALL BOX w/ HINGED DOOR. MAINTAIN INDIRECT CONNECTION FOR CODE COMPLIANCE. REFER TO DETAIL.
- PROVIDE HUB DRAIN FOR RISER(S) DRAIN. LOCATE HUB DRAIN IN WALL BOX w/ HINGED DOOR.
- PROVIDE HUB DRAIN FOR ELEVATOR SUMP PUMP DISCHARGE. LOCATE HUB DRAIN IN WALL BOX w/ LOCKABLE HINGED DOOR.
- SUMP PUMP LOCATED IN SUMP PIT. PUMP SHALL BE EQUIPPED w/ INTEGRAL OIL-MINDER CONTROLS TO SHUT-OFF UPON SENSING OIL. REFER TO PUMP SCHEDULE AND DETAIL.

- GENERAL CONSTRUCTION NOTES**
- ALL PIPING SHALL BE ROUTED CONCEALED.
  - ALL PIPING INSIDE WALLS SHALL BE SECURED SUCH THAT THERE IS NO MOVEMENT DUE TO WATER HAMMER
  - PROVIDE ISOLATION VALVES AT EACH FIXTURE GROUP. ALL FIXTURES SHALL BE CAPABLE OF REMOVAL / REPLACEMENT WITHOUT SHUTTING OFF BUILDING SUPPLY
  - ALL FLOOR DRAINS SHALL HAVE TRAP PRIMER INLET. PRIME ALL TRAPS w/ WATER-BASED TRAP PRIMERS.
  - PROVIDE ESCUTCHEONS AT ALL FIXTURE PIPE WALL PENETRATIONS



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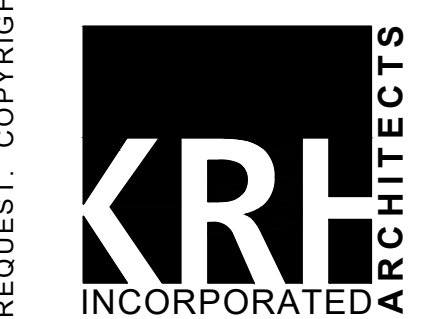
SHEET NAME  
**NEW FACILITY  
SANITARY WASTE &  
VENT PLANS**

SHEET INDEX  
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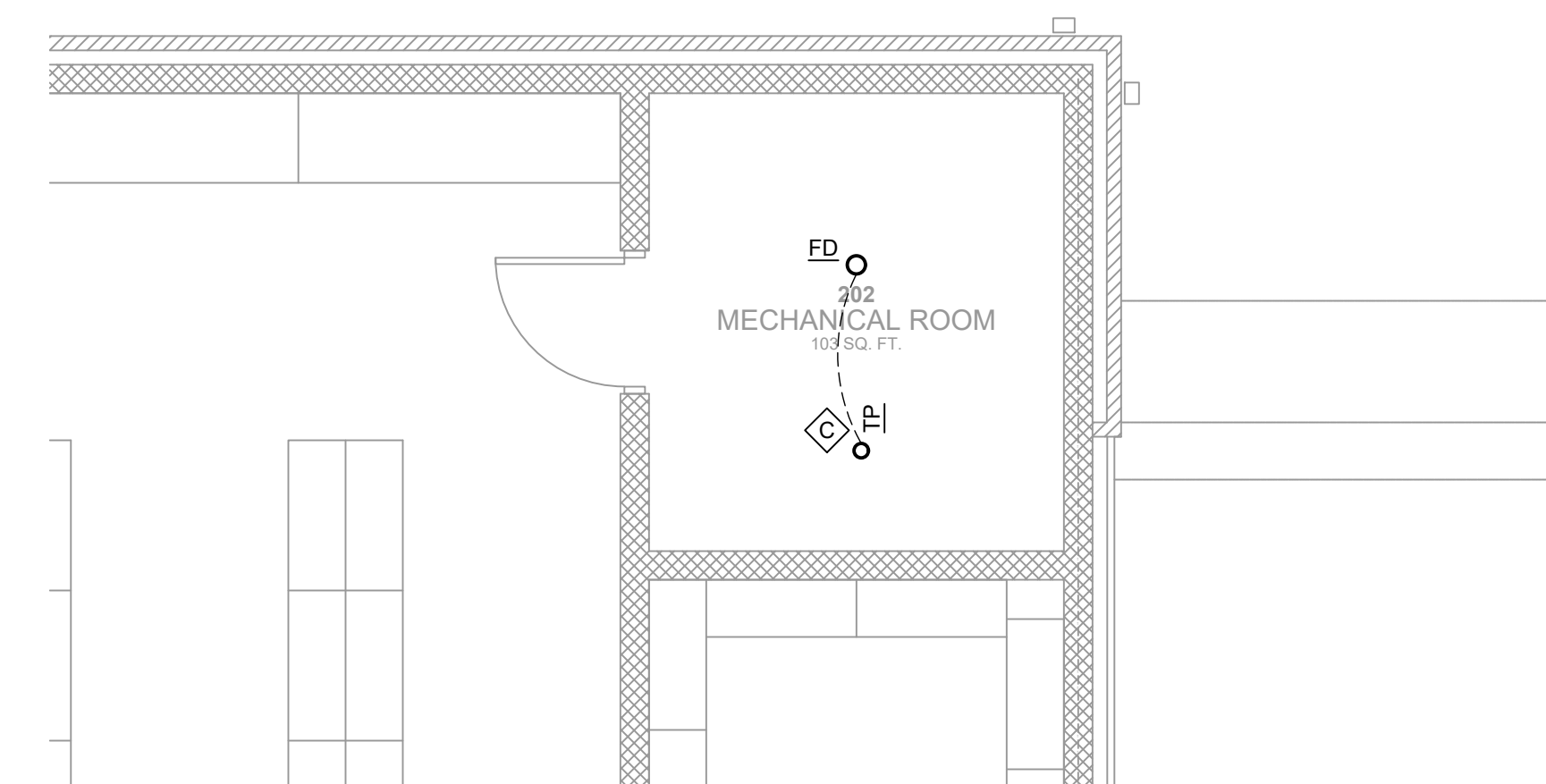
SHEET NAME

NEW FACILITY  
DOMESTIC WATER  
PIPING PLANS

SHEET INDEX

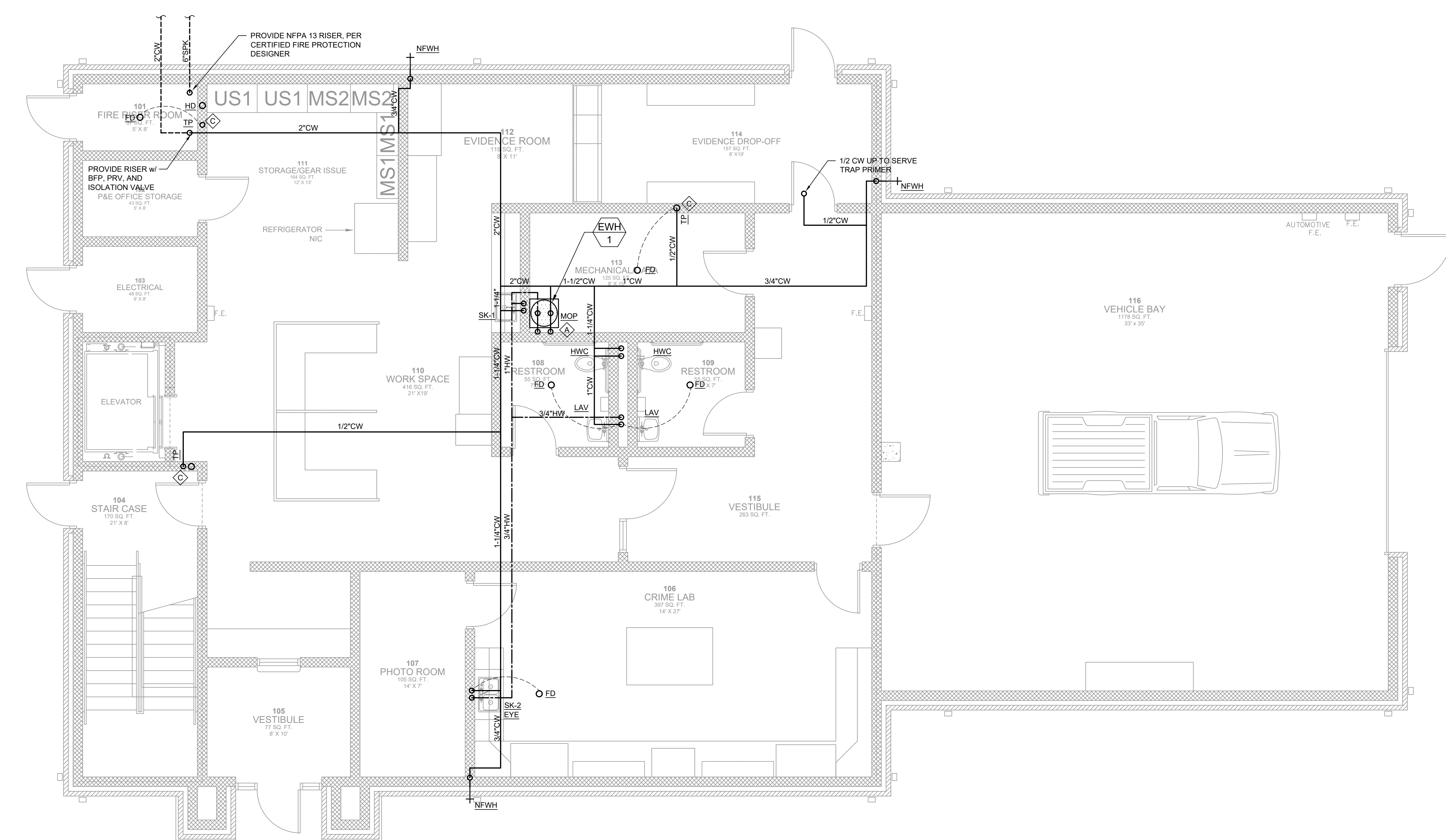
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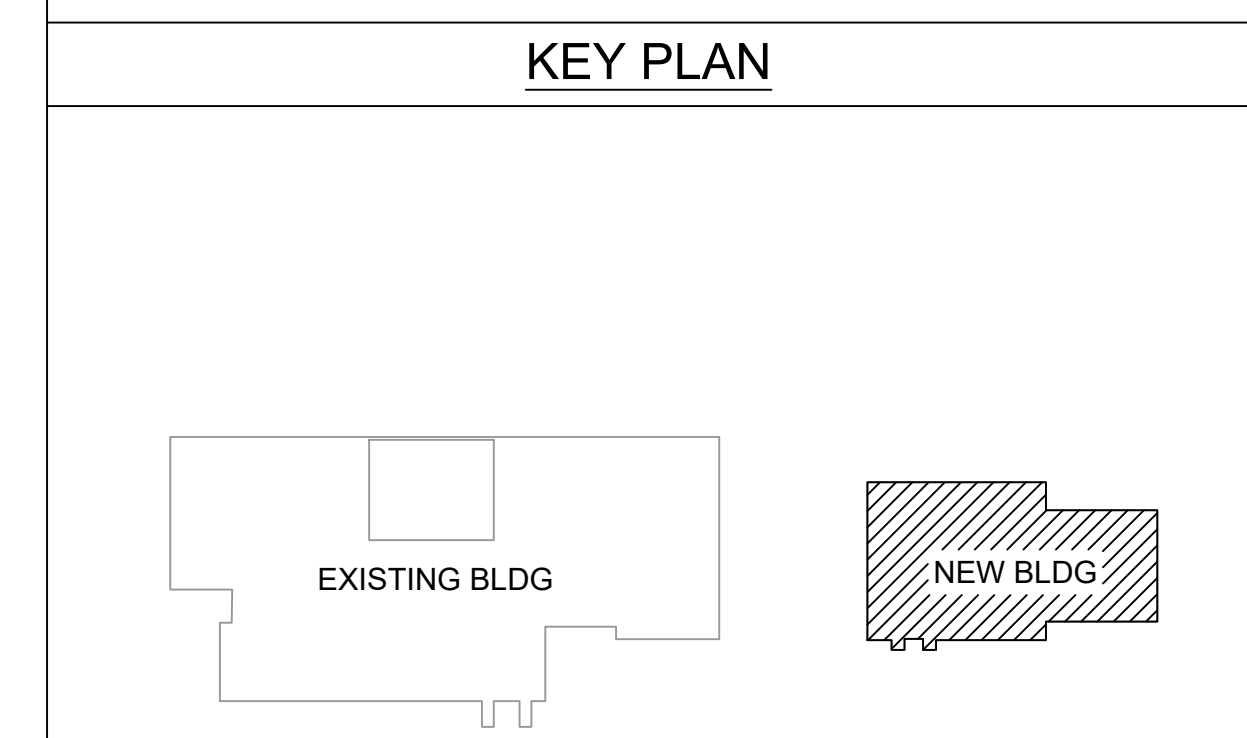
**LEVEL 2 - DOMESTIC WATER PIPING PLAN**  
SCALE: 1/4" = 1'-0"

- KEY NOTES**
- TYPICAL ELECTRIC WATER HEATER MOUNTED ON SHELF ABOVE MOP SINK. REFER TO SCHEDULE AND DETAIL. MAINTAIN ALL CLEARANCES REQUIRED FOR WATER HEATER & MOP SINK
  - PROVIDE 1/2" CW DROP AT EACH FUME HOOD STATION, AS REQUIRED BY MANUFACTURER. CONTRACTOR TO CONFIRM W/ FINAL HOOD EQUIPMENT SELECTION PRIOR TO START OF CONSTRUCTION.
  - PROVIDE 1/2" CW DROP FOR WATER-BASED TRAP PRIMER LOCATED FOR PRIMING HUB DRAIN. REFER TO DETAIL.

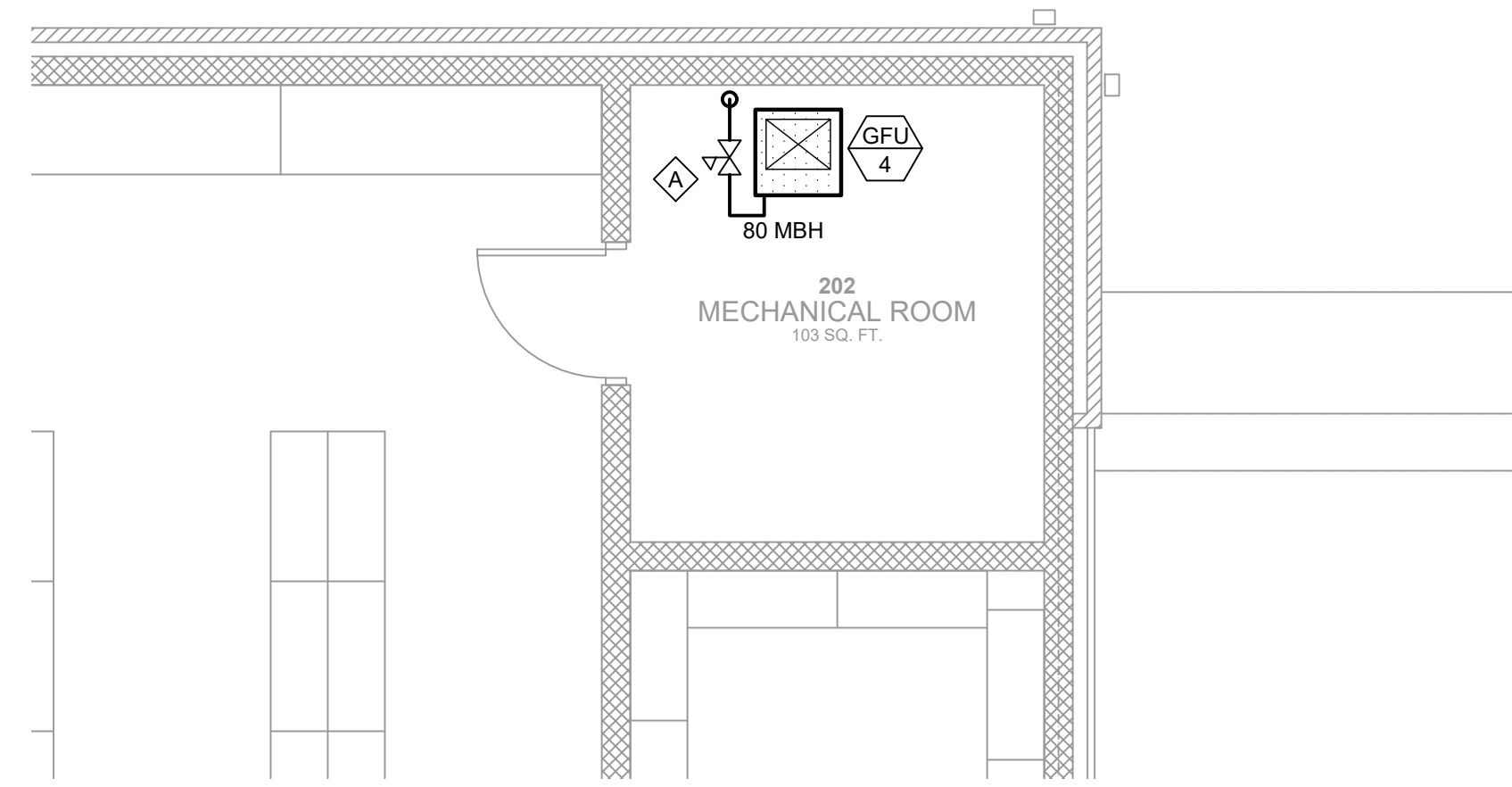


**LEVEL 1 - DOMESTIC WATER PIPING PLAN**  
SCALE: 1/4" = 1'-0"

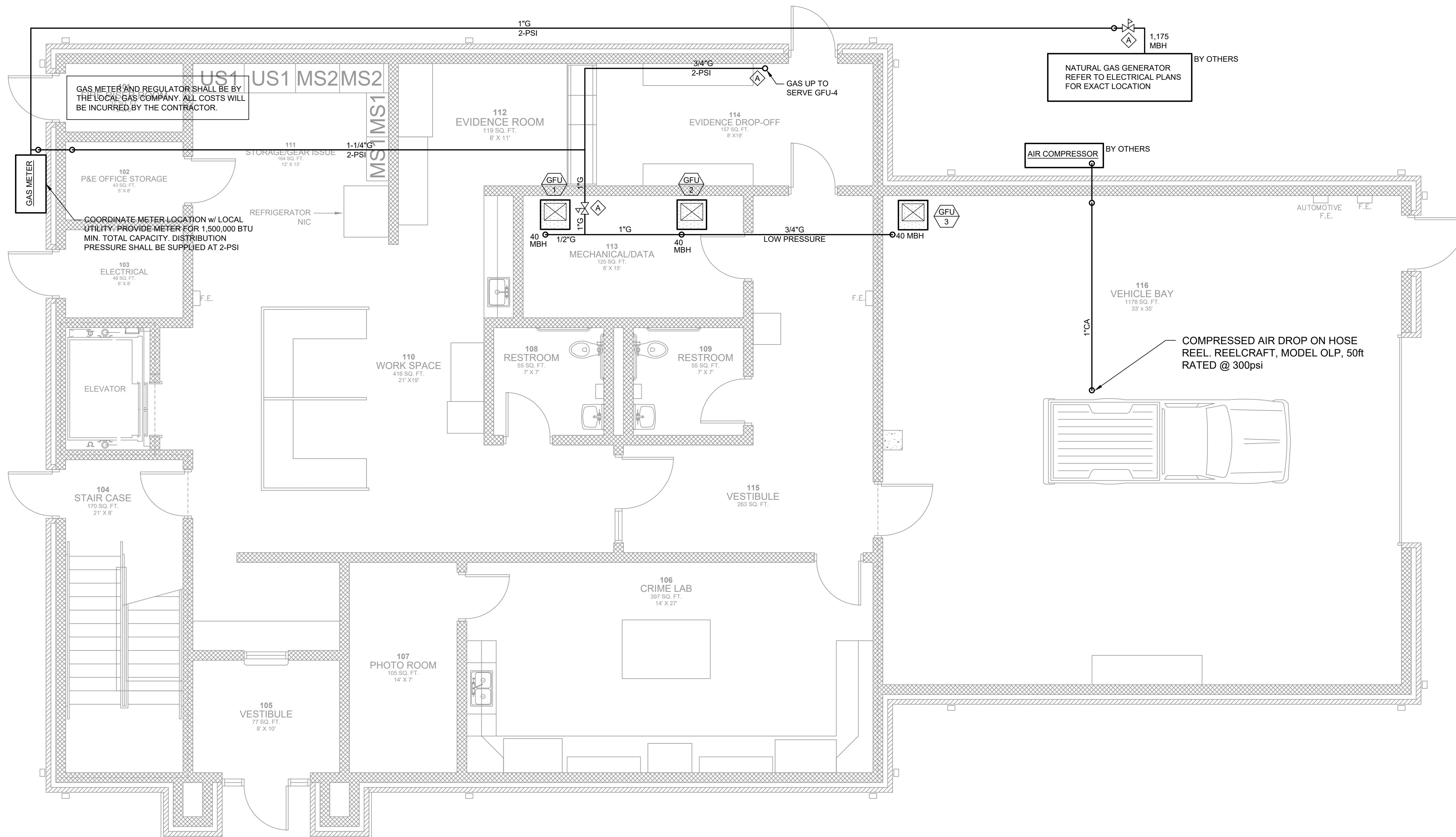
- GENERAL CONSTRUCTION NOTES**
- ALL PIPING SHALL BE ROUTED CONCEALED.
  - ALL PIPING INSIDE WALLS SHALL BE SECURED SUCH THAT THERE IS NO MOVEMENT DUE TO WATER HAMMER
  - PROVIDE ISOLATION VALVES AT EACH FIXTURE GROUP. ALL FIXTURES SHALL BE CAPABLE OF REMOVAL / REPLACEMENT WITHOUT SHUTTING OFF BUILDING SUPPLY
  - ALL FLOOR DRAINS SHALL HAVE TRAP PRIMER INLET. PRIME ALL TRAPS W/ WATER-BASED TRAP PRIMERS.



**FOR CONSTRUCTION**



**LEVEL 2 - NATURAL GAS PIPING PLAN**  
SCALE: 1/4" = 1'-0"



**LEVEL 1 - NATURAL GAS & COMPRESSED AIR PLAN**  
SCALE: 1/4" = 1'-0"

**KEY NOTES**

- A. PROVIDE APPLIANCE REGULATOR RATED FOR CFH NOTED ON EQUIPMENT

PROJECT NUMBER  
**23-021**

DATE  
**12/01/23**

NO.	DATE
0000	00/00/00

FACILITY CODE  
**000-0000**

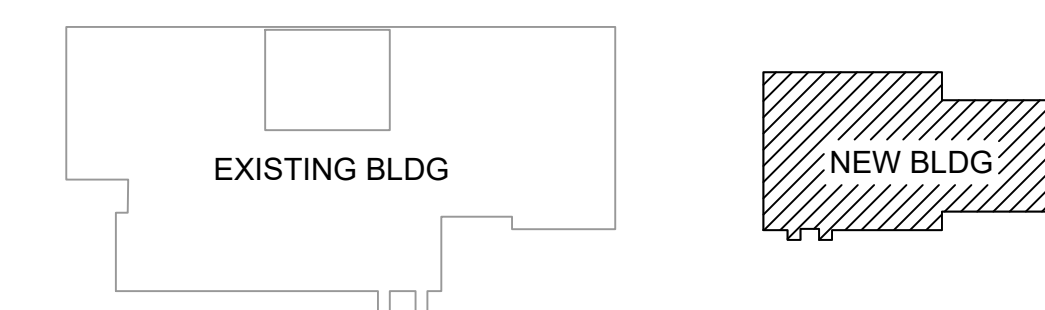


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**GENERAL CONSTRUCTION NOTES**

1. GAS METER TO BE COORDINATED w/ LOCAL UTILITY. ALL INSTALLATION SHALL BE PER PLANS UNLESS CONFLICTING w/ LOCAL UTILITY. LOCAL UTILITY REQUIREMENTS SHALL SUPERCEDE.
2. ALL GAS PIPING SHALL BE ROUTED CONCEALED EXCEPT IN STORAGE ROOM & MECHANICAL ROOMS.

**KEY PLAN**



A NEW BUILDING FOR:  
**DALTON POLICE DEPARTMENT**  
WHITFIELD COUNTY  
DALTON, GA 30720



SHEET NAME

NEW FACILITY  
NATURAL GAS &  
COMPRESSED AIR  
PIPING PLANS

SHEET INDEX

**FOR CONSTRUCTION**

**P3.1**

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SECTION 13900 - FIRE SUPPRESSION

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes complete fire suppression system including, as required, sprinkler system, fire department connections and fire pump system for sprinkling of the building.
- B. The building design is shown on the project drawings.
- C. The intent of this specification is for the Contractor to determine, based on site visit(s) and the building drawings, the labor, materials, equipment, and other items necessary for a complete sprinkling of the building per NFPA 13. This determination includes, but is not limited to, the use of fire pumps, jockey pumps, fire hoses, stand pipes, and other fire suppression equipment for a complete sprinkling of the building. The Fire Suppression Contractor should base his bid on this determination.
- D. The information contained in the specification on fire pumps is intended to be a guide in the selection and installation of such fire pumps. If, based on hydraulic calculations and hydrant testing, a pump is deemed to be necessary, it is the responsibility of the Contractor to coordinate with other applicable trades, e.g. the Division 16 contractor, to provide a complete and functional fire suppression system installation.

1.2 SYSTEM DESCRIPTION

- A. Sprinkler System: Conform to the following criteria:
  - 1. Coverage for entire building.
  - 2. Design system hydraulically to achieve the hazard occupancy requirements set forth in NFPA 13.
- B. Fire Pump (where applicable): Conform to the following criteria:
  - 1. Description: Electric motor driven.
  - 2. Design to NFPA 20.
  - 3. System to achieve performance required by NFPA 13.
- C. The Contractor shall be responsible for coordinating with all other trades.
- D. The Contractor shall be responsible for obtaining all necessary inspections, permits, utility connections, and paying all required fees.
- E. Areas subject to freezing shall be provided with a dry pipe system.

1.3 SUBMITTALS

- A. Shop Drawings: Indicate detailed fire pump and jockey pump layout, pipe layout, supports, components, accessories, sizes, and hydraulic calculations. Drawings to be on a scale of 1/8" = 1'-0" showing all equipment and piping installed under this section. Shop drawings shall be given drawing numbers, which shall be retained through all revisions.
- B. All shop drawings submitted shall be approved by the Fire Marshall before submission to the Architect for approval. Submit sufficient prints for architect to retain three copies.
- C. Product Data: Submit data for pipe materials used, valves, manufacturer's catalog sheet for equipment indicating rough-in size, finish, accessories, pump type, capacity, power requirements, certified pump curves, and NPSH.

1.4 CHARTS AND TAGS

- A. Provide three (3) sets of charts or diagrams showing outline plan of the structures and the essential features of the systems including all piping, equipment, valves, and controls.
- B. All valves, dampers, and controls shall be designated

1.5 CLOSEOUT SUBMITTALS

- A. Project Record Documents: Record actual locations of sprinkler heads.
- B. Operation and Maintenance Data: Submit description of components of system, servicing requirements, record drawings, inspection data, and parts lists.

1.6 QUALITY ASSURANCE

- A. Perform Work in accordance with:
  - 1. Sprinkler Systems: NFPA 13.
  - 2. Standpipe and Hose Systems: NFPA 14.
  - 3. Fire Pump System: NFPA 20.
- B. Design fire suppression system under direct supervision of a NICET qualified fire protection system designer experienced in design of this Work and licensed at Project location.

PART 2 PRODUCTS

2.1 PIPE AND TUBE

- A. Steel Pipe: ASTM A135 black welded or seamless, schedule 40 or 10.
  - 1. Steel Fittings: ASME B16.9, wrought steel, butt welded; ASME B16.25, butt weld ends; ASTM A234/A234M, wrought carbon steel and alloy steel; ASME B16.5, steel flanges and fittings; ASME B16.11, forged steel socket welded and threaded.
  - 2. Cast Iron Fittings: ASME B16.1, flanges and fittings; ASME B16.4, threaded fittings.

- 3. Malleable Iron Fittings: ASME B16.3, threaded type; ASTM A47/A47M.
- 4. Water service underground pipe to building shall be as per site plans.

2.2 GATE VALVES

- A. Up to and including 2 inches: Bronze body and trim, rising stem, hand wheel, solid wedge or disc, threaded ends.
- B. Over 2 inches: Iron body, bronze trim, rising stem pre-grooved for mounting tamper switch, hand wheel, OS&Y, solid bronze or cast iron wedge, flanged or grooved ends.

2.3 BUTTERFLY VALVES

- A. Bronze body, stainless steel disc, resilient replaceable seat, threaded ends, extended neck, hand wheel and gear drive and integral indicating device, tamper switch.
- B. Iron body, iron or bronze disc, EPDM seat, water, lug, or grooved ends, extended neck, hand wheel and gear drive, integral indicating device, tamper switch.

2.4 CHECK VALVES

- A. Up to and including 2 inches: Bronze body and swing disc, rubber seat, threaded ends.
- B. Over 2 inches: Iron body, bronze trim, swing check with rubber disc, renewable disc and seat, flanged ends.

2.5 DRAIN VALVES

- A. Bronze compression stop with hose thread nipple and cap.
- B. Brass ball valve with cap and chain, 3/4 inch hose thread.

2.6 SPRINKLERS

- A. Sprinkler brand: Viking, Tyco.
- B. Suspended Ceiling Type: Semi-recessed pendant type with chrome plated finish and matching escutcheon.
- C. Exposed Area Type: Standard upright type with brass finish.
- D. Guards: Finish to match sprinkler head.

2.7 SPRINKLER PIPING SPECIALTIES

- A. Wet Pipe Sprinkler Alarm Valve: Check type valve with electrically or hydraulically operated alarms, with pressure retard chamber and variable pressure trim.
- B. Dry Pipe Sprinkler Alarm Valve: Check type valve with electrically or hydraulically operated alarms, with accelerator.
- C. Flooding Deluge Valve: Gate type valve, actuated electrically with electrically operated alarms, with alarm testing trim.
- D. Water Motor Alarm: Hydraulically operated impeller type alarm gong, red enameled.
- E. Electric Alarm: Electrically operated red enameled gong with pressure alarm switch.
- F. Water Flow Switch: Vane type switch with two contacts.
- G. Pressure Maintenance Pump: Close coupled motor and pump unit, with open drip proof, permanently lubricated, 115 volt, single phase, 60 Hz, motor.
- H. Air Compressor: Single unit, electric motor driven, ASME rated horizontal receiver tank, air pressure operated, safety valves, check valves, automatic tank drain, muffler-filter, belt guard, controls and 115 volt, single phase, 60 Hz motor.

2.8 STANDPIPE EQUIPMENT

- A. Hose Cabinet: Formed steel construction, prime coated; recessed mounted; 16 gage thick with 12 gage thick door; glazed door style, hinged with positive latch device. Fire rated when installed within fire rated assemblies.
- B. Hose Rack: Steel with polished chrome finish; swivel or stationary type with pins and water stop.
- C. Hose: 100 feet of 1-1/2 inch synthetic hose.
- D. Nozzle: Brass; combination fog-straight stream and adjustable shut-off nozzle.
- E. Hose Station Valves: Angle type, 1-1/2 inch nominal size with ball drip.
- F. Hose Connection Valves: Brass, chrome plated finish, 2-1/2 inch size, thread to match fire department hardware, threaded dust cap and chain.

2.9 FIRE DEPARTMENT CONNECTION

- A. Type: Post mounted type in vault with brass finish.
- B. Outlets: Two way with thread size to suit fire department hardware; threaded dust cap and chain of matching material and finish.
- C. Drain: 3/4 inch automatic drip.
- D. Label: "Fire Department Connection."
- E. Coordinate with local fire department on connection type before pricing job.

2.10 FIRE PUMP

- A. Pumps
  - 1. Type: UL 448 Centrifugal, direct connected.
  - 2. Casing: Cast iron, split case, single or double suction, rated for 150 psig or 1.25 times working discharge pressure, renewable bronze wearing rings, flanged suction and discharge.
  - 3. Impeller: Bronze, fully enclosed, keyed to shaft.

- 4. Shaft: High-grade alloy steel with copper, bronze or stainless steel shaft sleeves.
- 5. Bearings: Grease lubricated ball bearings.
- 6. Drive: Flexible coupling with coupling guard.
- 7. Seals: Packing gland with minimum four rings packing.
- 8. Baseplate: High grade heat-treated cast iron or reinforced steel with integral drain rim.
- B. Accessories:
  - 1. Check valve in discharge pipe.
  - 2. OS&Y gate or butterfly valves on system side of check valve and on supply side of pump.
  - 3. Fire pump bypass fitted with OS&Y gate or butterfly valves and check valve.
  - 4. Relief valve.
  - 5. Pressure gages, suction and discharge.
  - 6. Temperature relief valve.
  - 7. Umbrella cock, automatic air release.
  - 8. Splash shield between pump and motor.
  - 9. Manifold with hose gate valves.
  - 10. Flow metering system for closed loop testing.
- C. Electric Drive: Squirrel cage type in open drip proof NEMA MG 1 enclosure, 208 volt, three phase, 60 Hz.
- D. Electric Motor Controls: Limited service type with reduced voltage starter.
  - 1. Alarm circuit for power failure.
- E. Operating Controls: Hand-off-automatic switch, fire water pressure switch to operate pump drive, fire water pressure switches for alarms, with indicating lights for low fire water pressure and high fire water pressure and contacts for remote circuits to indicate pump operational status and alarm status.

2.11 PRESSURE BOOSTER (JOCKEY) PUMP

- A. Electrically operated, positive-displacement pressure booster pump, pressure switch operated.

2.12 ELECTRICAL CHARACTERISTICS AND COMPONENTS

- A. Per Division 16.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install in accordance NFPA 13, NFPA 14, NFPA 20.
- B. Install Work in accordance with Fire Department, Fire Marshall, and local and state Building Inspection's standards.
- C. Ream pipe and tube ends to full inside diameter. Remove burrs and bevel plain end ferrous pipe.
- D. Remove scale and foreign material, inside and outside, before assembly.
- E. Install sleeves where penetrating footings, floors, or walls. Seal pipe and sleeve penetration to maintain fire resistance equivalent to fire separation of footings, floors, or walls.
- F. Install pipe runs to minimize obstruction to other work. Offset around ductwork.
- G. Install piping in concealed spaces above finished ceilings.
- H. Install gate valves for shut-off or isolating service.
- I. Install drain valves at main shut-off valves, low points of piping and apparatus.
- J. Connect system to water source ahead of domestic water connection with double check valve assembly.
- K. Install heads to coordinate with reflected ceiling plan. Center in two directions in ceiling tiles.
- L. Protection:
  - 1. Apply temporary tape or paper cover to sprinkler heads to protect from painting.
  - 2. Protect concealed sprinkler head cover plates from painting.
- M. Install air compressor on vibration isolators.
- N. Install drain piping from tank to nearest floor drain.
- O. Interface sprinkler system with building fire and smoke alarm system.
- P. Locate fire department connection with sufficient clearance from walls, obstructions, or adjacent Siamese connectors to allow full swing of fire department wrench handle.
- Q. Install drain piping from pump bases, pump stuffing boxes, and pump casings to floor sinks or drains. Install air vents on pump cases.
- R. Install long radius elbows on suction side of pump. Do not support piping from pump casing.
- S. Align base mounted pumps. Install on vibration isolators.
- T. On jockey pumps, install shut-off valves, check valve, and relief valves.
- U. Flush entire piping system of foreign matter.
- V. Hydrostatically test entire system. Schedule test to be witnessed by authority having jurisdiction.

END OF SECTION

PROJECT NUMBER  
23-021

DATE  
12/01/23

REVISIONS

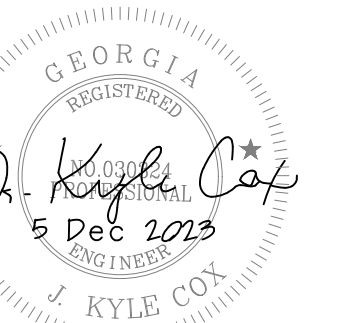
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A NEW BUILDING FOR:  
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WHITFIELD COUNTY  
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SHEET NAME

PLUMBING  
SPECIFICATIONS

SHEET INDEX

P4.1

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FACILITY CODE 000-0000



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A NEW BUILDING FOR: DALTON POLICE DEPARTMENT WHITFIELD COUNTY DALTON, GA 30720

SHEET INDEX ELECTRICAL NOTES, LEGEND, & SPECIFICATIONS

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ELECTRICAL LEGEND

Table listing electrical symbols and their corresponding descriptions, such as LED troffer, duplex receptacle, and light fixture.

(NOTE: ALL SYMBOLS SHOWN MAY NOT APPEAR ON DRAWINGS AND ARE USED AS APPLICABLE TO THIS PROJECT)

ABBREVIATIONS

Table listing abbreviations for electrical components, materials, and units, such as AMPERES, GROUND, and VOLTAGE.

ELECTRICAL SPECIFICATIONS:

1. GENERAL: Furnish all labor, equipment, and materials necessary for a complete installation of electrical wiring. The drawings indicate diagrammatically the extent, general character, and the approximate location of the work to be performed.

26. PANELBOARDS: Panelboards shall be of a dead-front safety type equipped with thermal magnetic molded case circuit breakers with frame and trip ratings as shown on the schedule.

ELECTRICAL GENERAL NOTES:

1. DRAWINGS ARE DIAGNOSTIC ONLY. EXACT LOCATIONS, MOUNTING HEIGHTS OF EQUIPMENT AND ROUTING OF RACEWAYS SHALL BE COORDINATE WITH THE EQUIPMENT REQUIREMENTS AND FIELD CONDITIONS.

LIGHTING CONTROL GENERAL NOTES:

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND AIM SENSORY IN THE CORRECT LOCATION FOR A CORRECT AND PROPER VOLUMETRIC COVERAGE WITHIN THE RANGE OF COVERAGE(S) OF CONTROLLED AREAS PER THE MANUFACTURER'S RECOMMENDATIONS.

TAMPER-RESISTANT RECEPTACLE NOTES:

ALL 15A/20A, 125V & 250V NON-LOCKING TYPE RECEPTACLES LISTED BELOW REQUIRE UL LISTED TAMPER RESISTANT RECEPTACLES.

FIRE ALARM GENERAL NOTES:

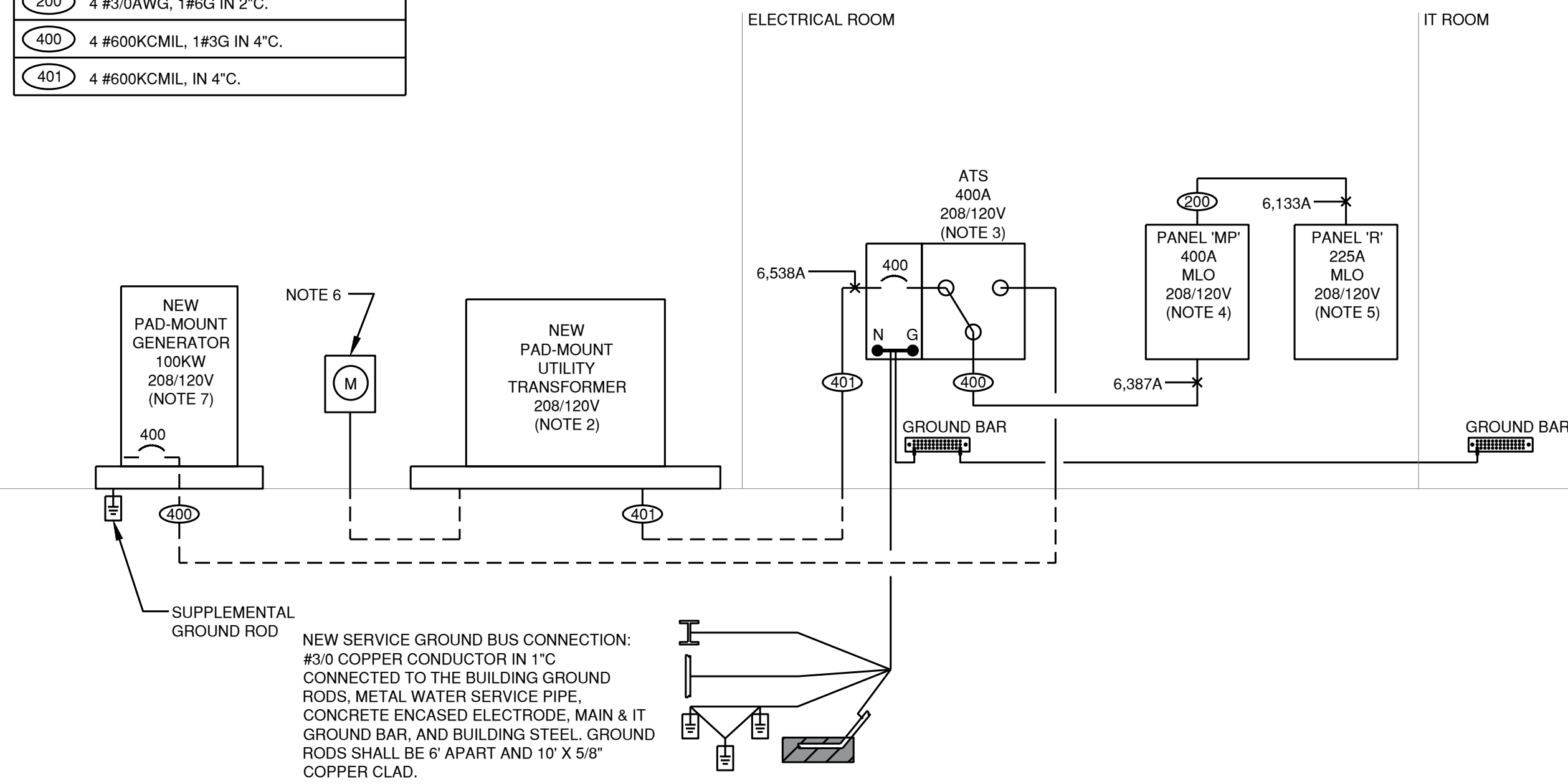
1. FIRE ALARM SUBCONTRACTOR SHALL PREPARE ENGINEERED FIRE ALARM PERMIT AND CONSTRUCTION DRAWINGS. THESE DRAWINGS SHALL INCLUDE PANEL AND DEVICE SPECIFICATIONS, CIRCUITING, VOLTAGE DROP AND BATTERY CALCULATIONS.

GFCI NOTES:

1. ALL 15A/20A, 125V THROUGH 250V RECEPTACLES INSTALLED IN LOCATIONS SPECIFIED IN NEC 210.8 (A) (1)-(11) SHALL HAVE GROUND-FAULT CIRCUIT INTERRUPTER PROTECTION FOR PERSONNEL.

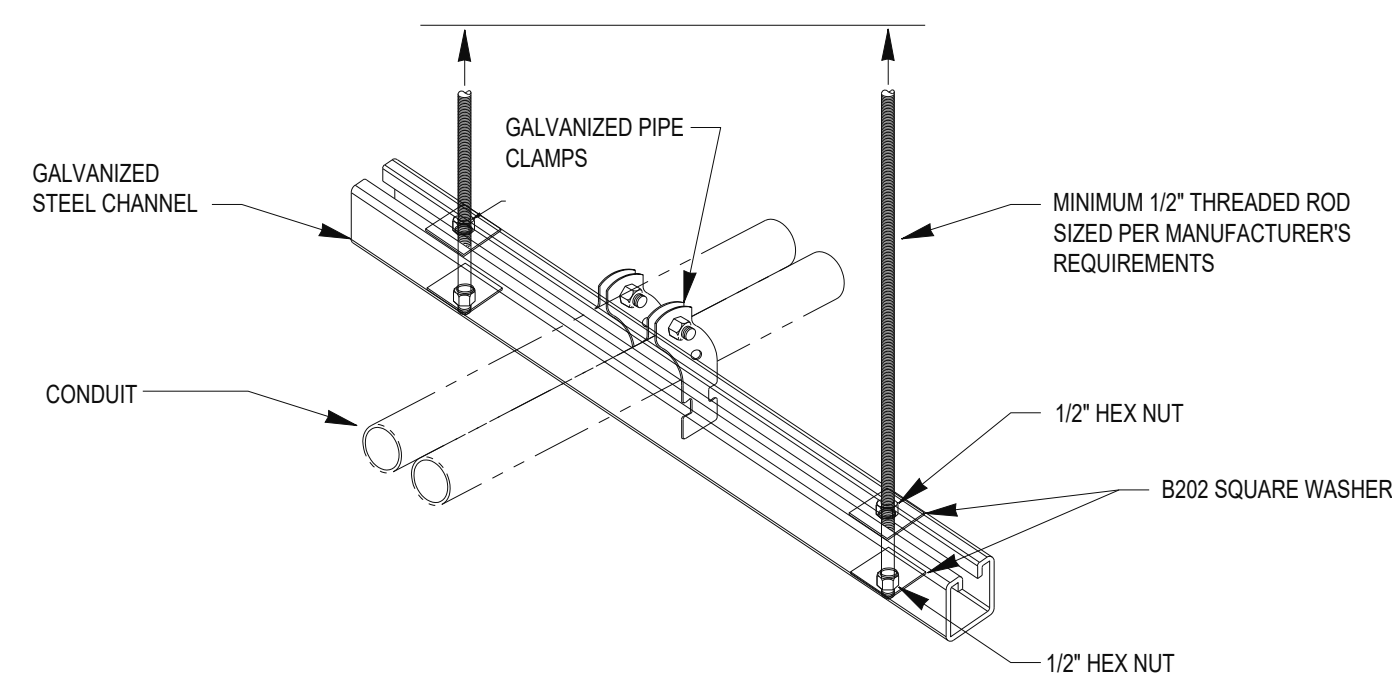
FEEDER SCHEDULE - COPPER CONDUCTORS

200	4 #3/0AWG, 1#6G IN 2" C.
400	4 #600KCMIL, 1#3G IN 4" C.
401	4 #600KCMIL, IN 4" C.



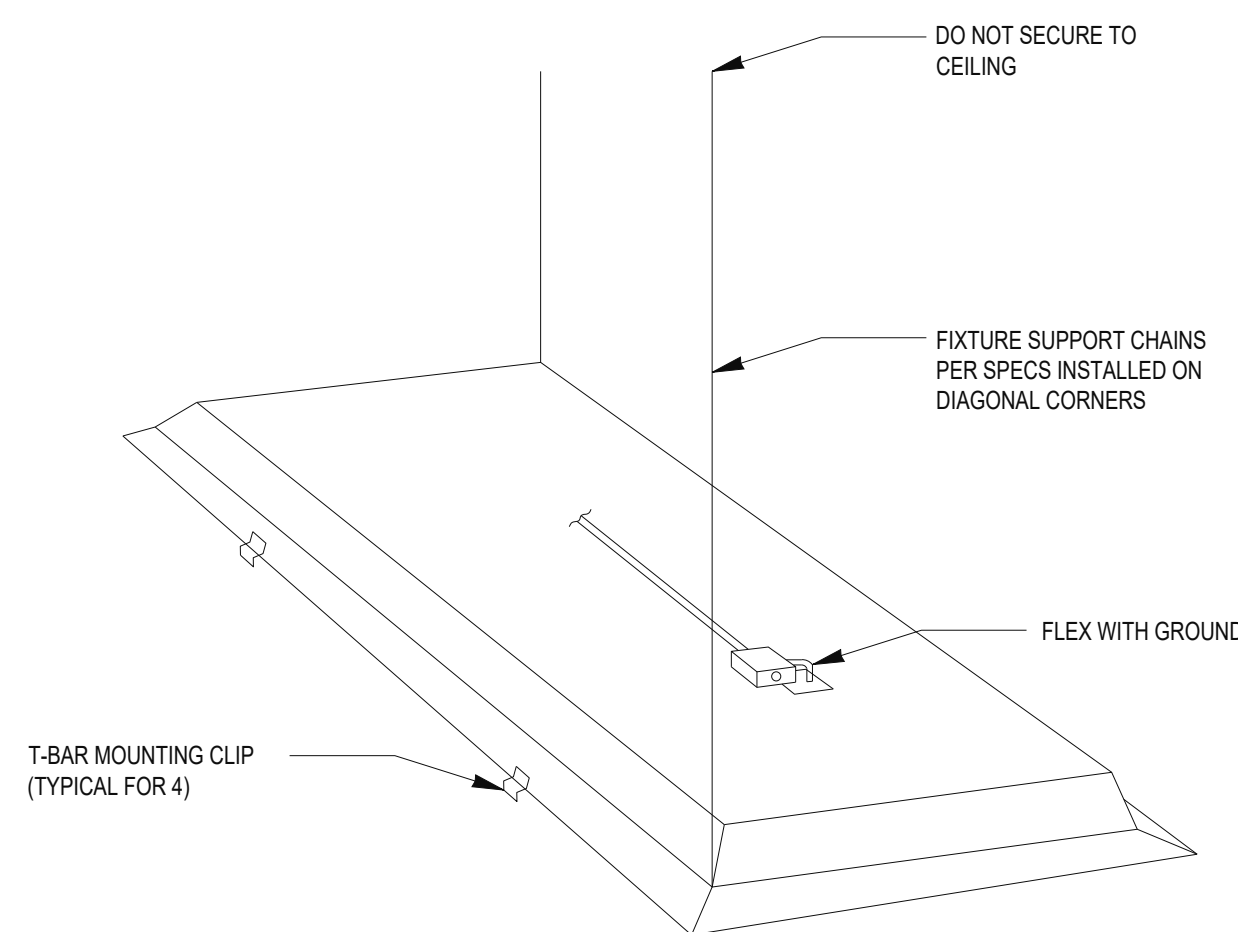
1 ELECTRICAL RISER DIAGRAM

SCALE: NTS



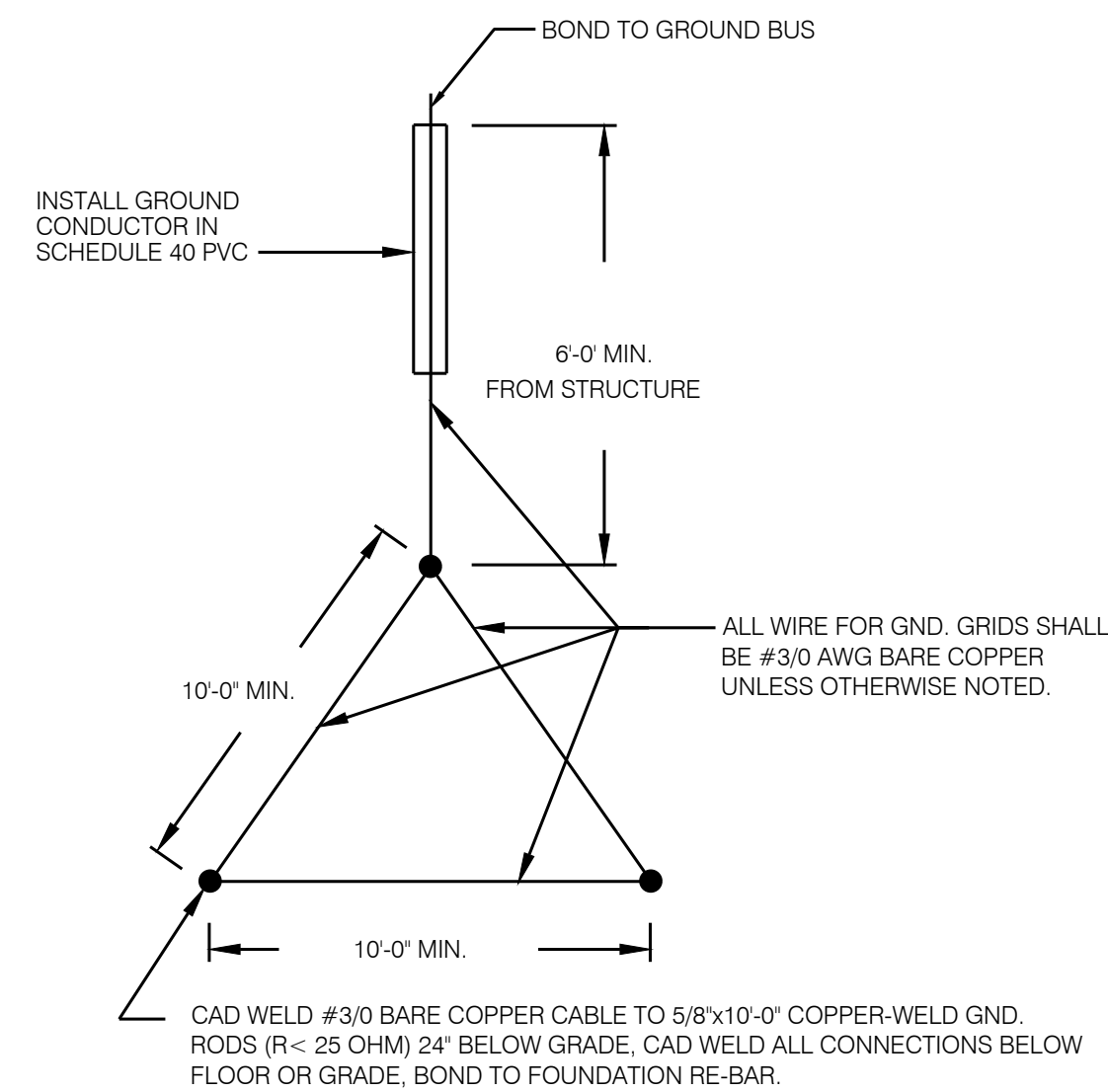
2 CONDUIT HANGING DETAIL

SCALE: NTS



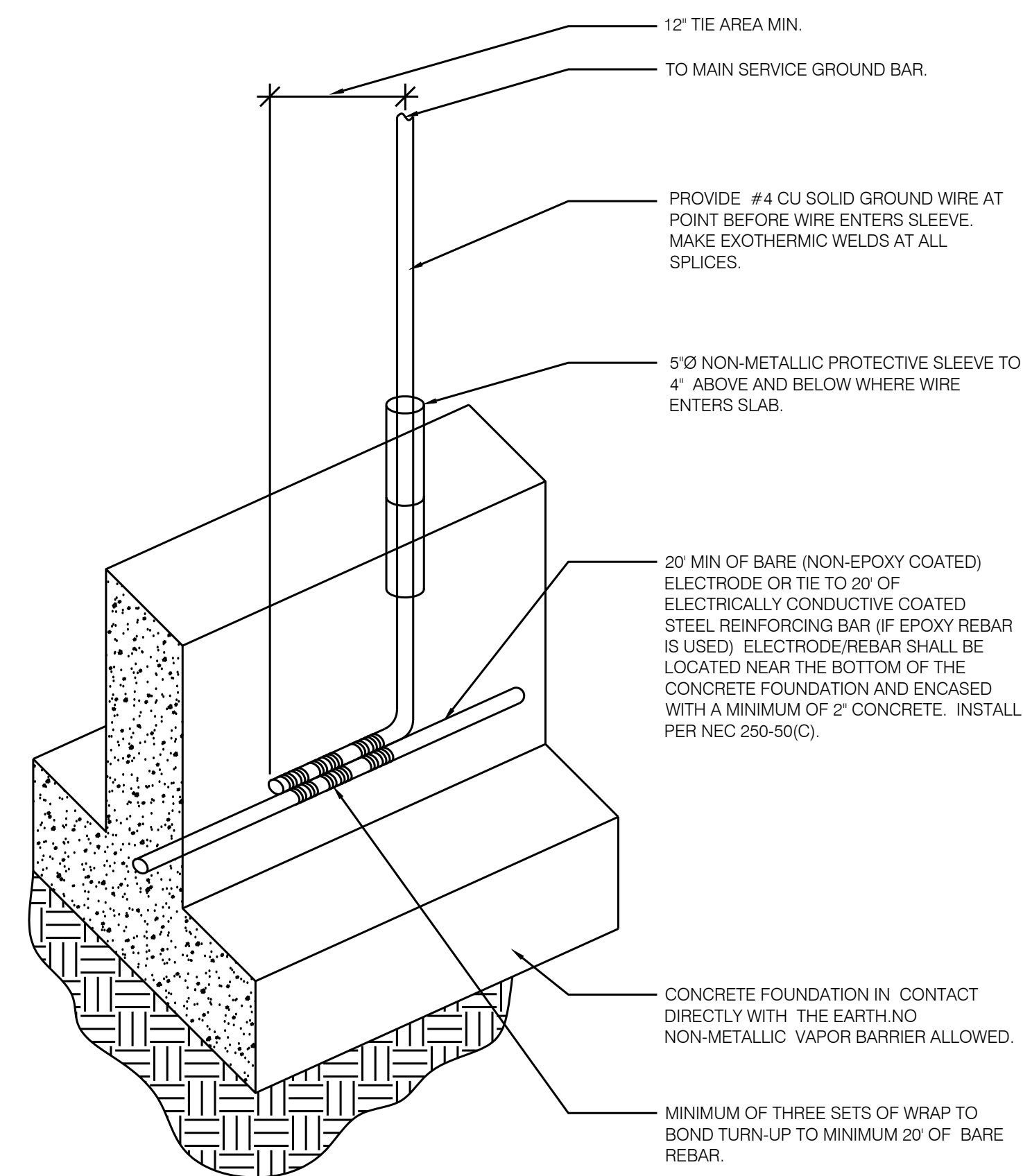
3 TROFFER HANGING DETAIL

SCALE: NTS



4 GROUNDING TRIAD DETAIL

SCALE: NTS



5 CONCRETE ENCASED ELECTRODE GROUNDING DETAIL

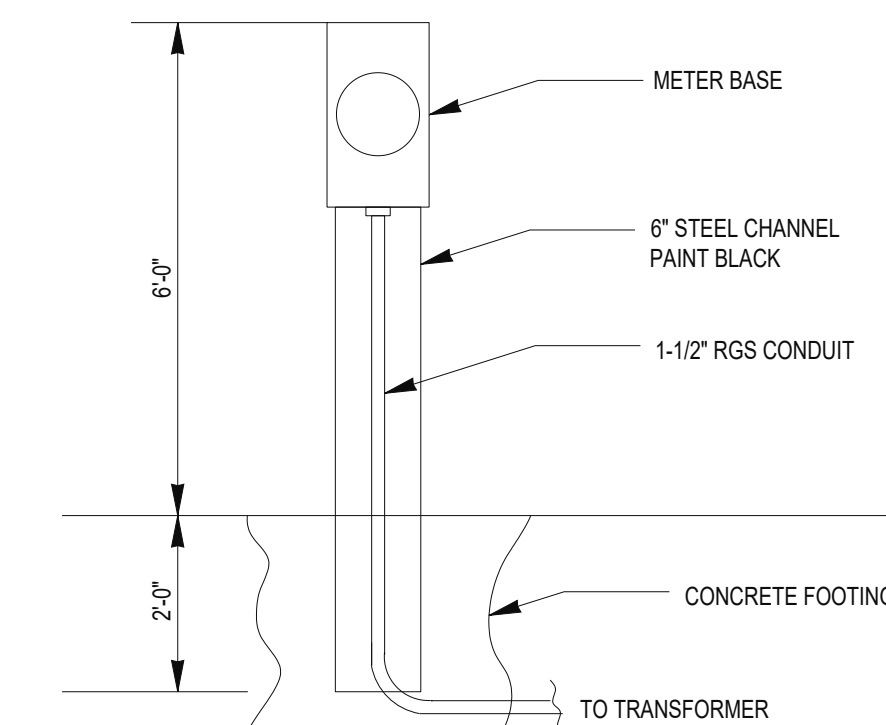
SCALE: NTS

NEW ELECTRICAL RISER GENERAL NOTES:

- ELECTRICAL SERVICE AND INSTALLATION SHALL CONFORM TO THE 2020 EDITION OF THE NATIONAL ELECTRICAL CODE, APPLICABLE STATE AND LOCAL CODES, AND LOCAL UTILITY REQUIREMENTS.
- CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS OF THE SERVICE WITH THE UTILITY COMPANY PRIOR TO BID. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATIONS AND REQUIREMENTS OF TRANSFORMERS, POLES, SERVICE EQUIPMENT AND OBTAIN ALL NECESSARY APPROVALS FROM THE UTILITY COMPANY PRIOR TO COMMENCEMENT OF WORK. UTILITIES SHOWN ON DRAWINGS ARE TO BE USED AS A GUIDELINE ONLY AND MAY NOT NECESSARILY BE APPROVED. FINAL APPROVALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL COORDINATE ALL CONDUIT ROUTING WITH OTHER TRADES PRIOR TO ROUGH IN TO DETERMINE ROUTES THAT WILL NOT INTERFERE WITH OTHER TRADES.
- ALL WORK SHALL BE COORDINATED WITH OTHER TRADES. REFER TO ARCHITECTURAL, MECHANICAL, AND CIVIL DRAWINGS IN ORDER TO BE AWARE OF CONDITIONS AFFECTING ELECTRICAL WORK.
- CONTRACTOR SHALL COORDINATE ALL MECHANICAL EQUIPMENT CONNECTIONS WITH MECHANICAL CONTRACTOR AND EQUIPMENT SUBMITTALS PRIOR TO ROUGH IN FOR EXACT LOCATIONS, CIRCUITS SIZES, AND BREAKER REQUIREMENTS.
- FOR EACH PANELBOARD INSTALLED, SPACE EQUAL TO THE WIDTH AND DEPTH EXTENDING THE FLOOR TO 6'-0" ABOVE THE PANEL OR STRUCTURAL CEILING, WHICHEVER IS LOWER, SHALL BE DEDICATED FOR ELECTRICAL EQUIPMENT INSTALLATION ONLY.
- ALL SUPPORTS, BOLTS, STRAPS, SCREWS AND SO FORTH SHALL BE OF CORROSION-RESISTANT MATERIALS OR PROTECTED AGAINST CORROSION.
- RACEWAY AND CONDUIT EXPOSED TO DIFFERING TEMPERATURES SHALL BE FILLED OR SEALED TO PREVENT THE CIRCULATION OF AIR AND FORMATION OF CONDENSATION.
- PROVIDE ENGRAVED NAME PLATES FOR EACH PANEL AND DISCONNECT INDICATING NAME AND FEEDER SOURCE AND AFFIX TO EQUIPMENT. PROVIDE TYPE-WRITTEN PANEL SCHEDULES FOR EACH PANELBOARD AND AFFIX TO INTERIOR PANEL DOOR.
- ALL FEEDERS SHOWN ARE COPPER IN CONDUIT WITH THHN/THW INSULATION EXCEPT FOR SERVICE ENTRANCE CONDUCTORS LABELED 'AL'. ALUMINUM. ALL HOMERUNS ARE TO BE IN EMT CONDUIT. FLEXIBLE CONDUIT SHALL BE LIMITED TO RUNS OF 10'-0" FROM JUNCTION BOX TO DEVICE.
- CALCULATED AVAILABLE FAULT VALUES ARE SHOWN WHEN EXCESS OF 10KA. PROVIDE PANELBOARDS AND DISCONNECTS WITH AN AIC RATING THAT EXCEEDS THIS VALUE.

NEW ELECTRICAL RISER NOTES:

- ALL EQUIPMENT SHOWN IN THE RISER DIAGRAM IS NEW AND TO BE PURCHASED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- COORDINATE ALL REQUIREMENTS FOR NEW ELECTRICAL SERVICE WITH THE LOCAL UTILITY AND CIVIL ENGINEER.
- PROVIDE NEW SERVICE ENTRANCE RATED AUTOMATIC TRANSFER SWITCH (ATS) AND LOCATE IN THE ELECTRICAL ROOM. ATS SHALL BE RATED FOR 400A/208V/3PH AND HAVE OVERCURRENT PROTECTION ON INPUT FEEDER. ATS TO BE BY SAME MANUFACTURER AS GENERATOR.
- PROVIDE NEW 400A/208V/3PH MAIN LUG ONLY PANELBOARD WITH COPPER BUS THAT UTILIZES BOLT-ON BREAKERS. PANEL SHALL BE SQUARE D I-LINE OR EQUAL.
- PROVIDE NEW 225A/208V/3PH MAIN LUG ONLY PANELBOARD WITH COPPER BUS THAT UTILIZES BOLT-ON BREAKERS.
- PROVIDE METERBASE FOR NEW SERVICE AND LOCATE AT UTILITY TRANSFORMER OR AS DIRECTED BY UTILITY. SEE METERBASE MOUNTING DETAIL ON THIS SHEET FOR FURTHER REQUIREMENTS.
- PROVIDE NEW CUMMINS 100KW NATURAL GAS GENERATOR 208V/3PH WITH A 400A OUTPUT BREAKER IN A WEATHERPROOF, SOUND ATTENUATED, STEEL ENCLOSURE WITH BAKED ON POWDER COAT FINISH. PROVIDE BATTERY CHARGER, REMOTE ANNUNCIATOR, AND ALL CONNECTIONS. PROVIDE CONCRETE BASE 6" LARGER THAN GENERATOR ALL THE WAY AROUND. GENERATOR SHALL MEET CURRENT LOCAL, NEC, AND EPA REQUIREMENTS AND BE UL 2200 CERTIFIED.

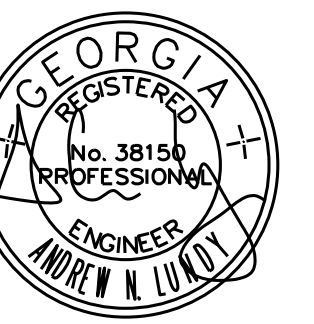


6 METERBASE DETAIL

SCALE: NTS

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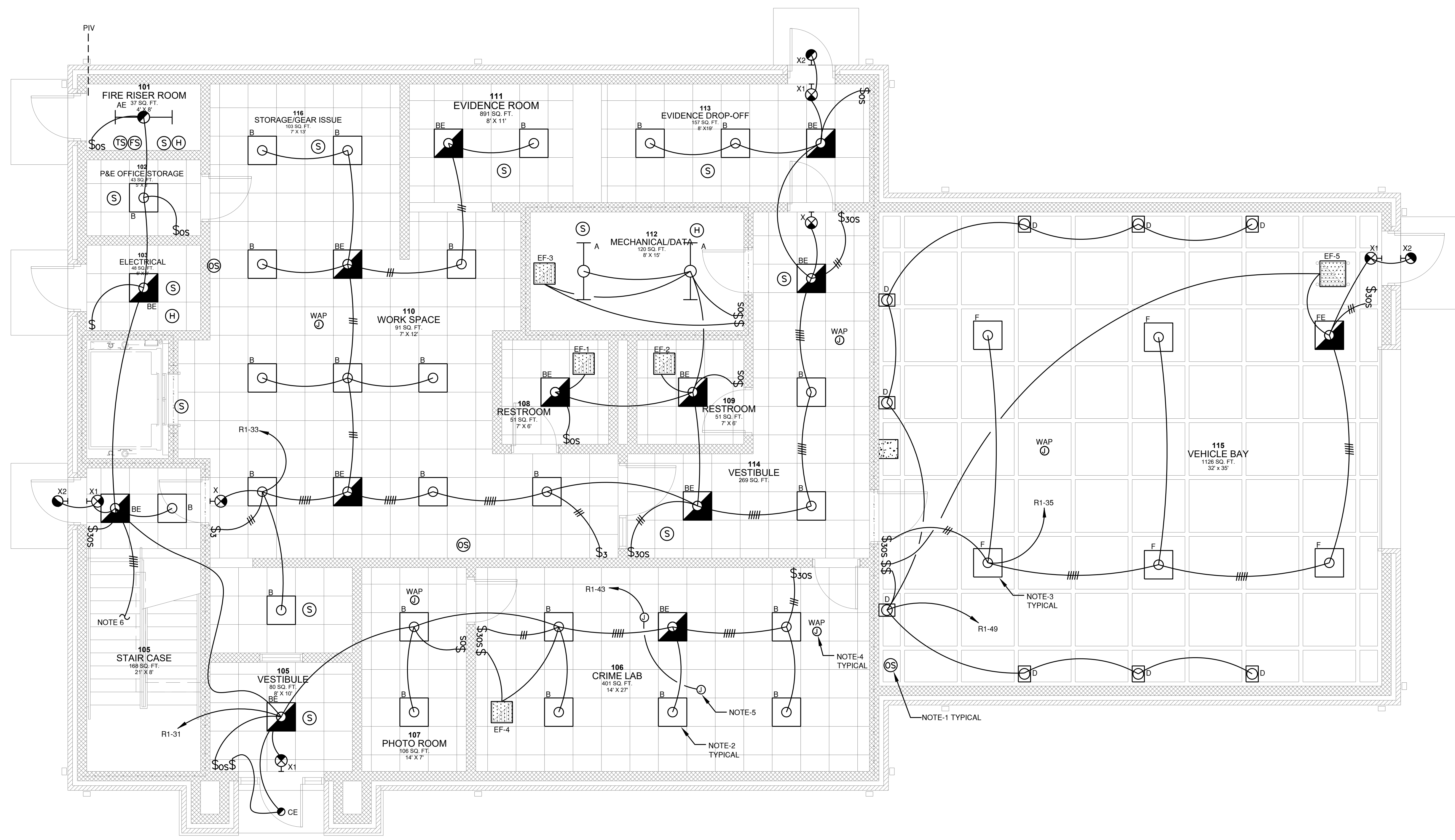
A NEW BUILDING FOR:  
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WHITFIELD COUNTY  
DALTON, GA 30720

**CEILING PLAN GENERAL NOTES:**

- A. PROVIDE NON-CONTACTORED, NON-SWITCHED HOT CONDUCTOR OF SAME CIRCUIT TO EACH EMERGENCY LIGHTING FIXTURE, EXIT SIGN AND NIGHT LIGHT.
- B. FIXTURES SHOWN ARE IDENTIFIED IN THE FIXTURE SCHEDULE. THE FIXTURE SCHEDULE IS BASIS OF DESIGN AND THE OWNER ULTIMATELY APPROVES THE FIXTURES PURCHASED.
- C. ALL EXTERIOR FIXTURES SHALL BE WET LISTED.

**CEILING PLAN KEY NOTES:**

- 1. ALL INTERIOR LIGHTING SHALL BE CONTROLLED BY WALL OR CEILING MOUNTED OCCUPANCY SENSORS. SEE LIGHTING CONTROL NOTES ON SHEET E1-0 FOR REQUIREMENTS.
- 2. SEE TROFFER HANGING DETAIL ON SHEET E1-0 FOR FURTHER REQUIREMENTS.
- 3. COORDINATE WITH ARCHITECT ON CEILING TYPE AND PROVIDE FRAME-IN KIT AS REQUIRED FOR SURFACE MOUNTED FIXTURES LOCATED IN GYP CEILINGS.
- 4. PROVIDE 4" RECESSED JUNCTION BOX FOR WIRELESS CONNECTION POINT AND UTILIZE CIRCUIT R1-40 FOR POWER AS REQUIRED.
- 5. PROVIDE BRANCH CIRCUIT AND RECESSED JUNCTION BOXES FOR SURGICAL LIGHT TYPE, CEILING HUNG LIGHT FIXTURES. CONTRACTOR TO PURCHASE AND INSTALL. COORDINATE WITH CITY ON DESIRED FIXTURE, MOUNTING LOCATION, AND CONTROL REQUIREMENTS. PROVIDE WALL MOUNTED SWITCH AS DIRECTED. OWNER TO SELECT. PROVIDE \$2500 ALLOWANCE.
- 6. CONTINUED TO THE NEXT LEVEL.



**1 ELECTRICAL FIRST FLOOR - CEILING PLAN**  
SCALE: 1/4" = 1'-0"

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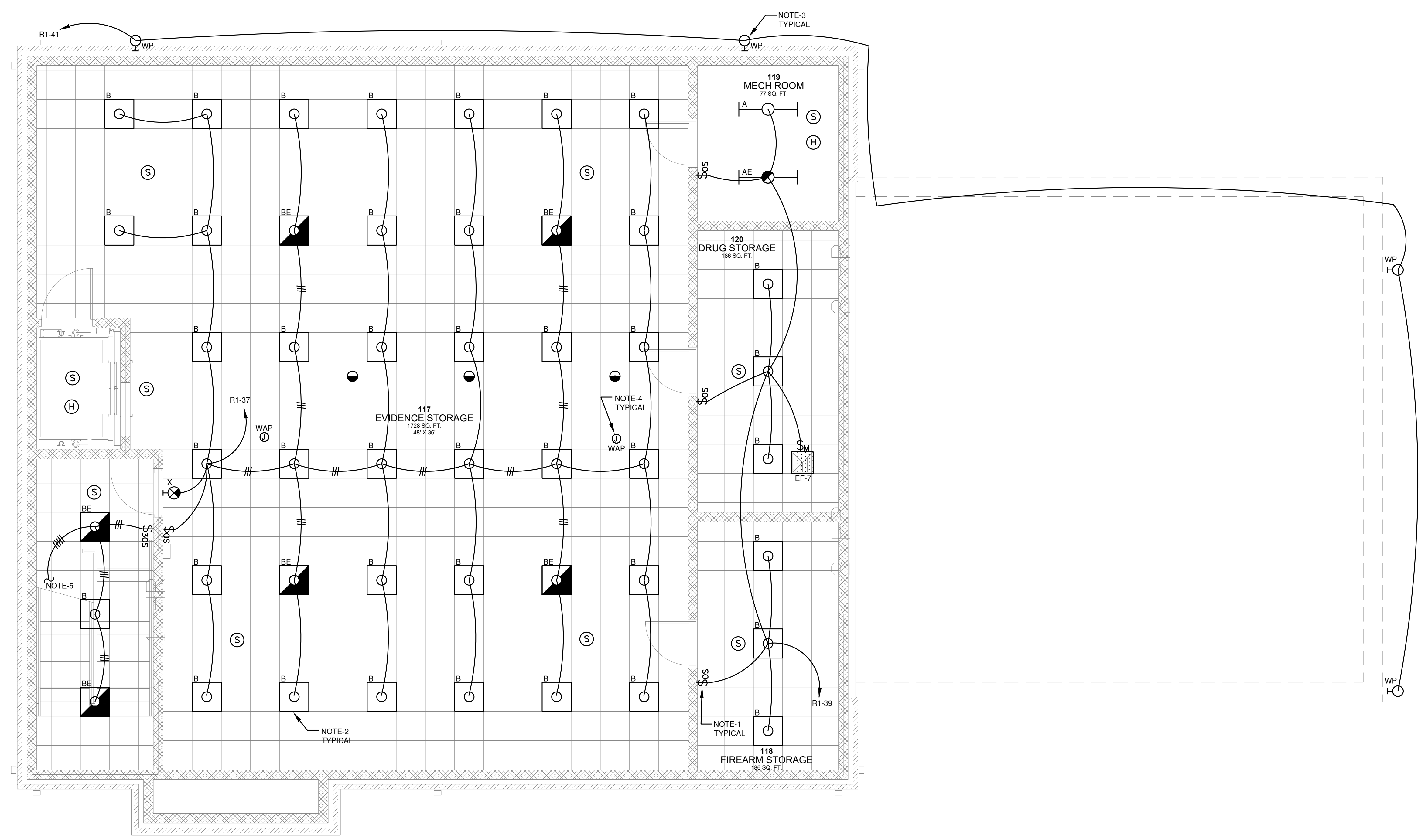
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SHEET INDEX  
ELECTRICAL  
SECOND FLOOR -  
CEILING PLAN

SHEET INDEX

**E4.0**

- CEILING PLAN GENERAL NOTES:**
- PROVIDE NON-CONTACTORED, NON-SWITCHED HOT CONDUCTOR OF SAME CIRCUIT TO EACH EMERGENCY LIGHTING FIXTURE. EXIT SIGN AND NIGHT LIGHT. PROVIDE NEW BATTERIES FOR ANY EXISTING EMERGENCY FIXTURE THAT IS TO REMAIN.
  - FIXTURES SHOWN ARE IDENTIFIED IN THE FIXTURE SCHEDULE. THE FIXTURE SCHEDULE IS BASIS OF DESIGN AND THE OWNER ULTIMATELY APPROVES THE FIXTURES PURCHASED.
  - ALL EXTERIOR FIXTURES SHALL BE WET LISTED.
- CEILING PLAN KEY NOTES:**
- ALL INTERIOR LIGHTING SHALL BE CONTROLLED BY WALL OR CEILING MOUNTED OCCUPANCY SENSORS. SEE LIGHTING CONTROL NOTES ON SHEET E1.0 FOR REQUIREMENTS.
  - SEE TROFFER HANGING DETAIL ON SHEET E1-0 FOR FURTHER REQUIREMENTS.
  - WALL PACKS ARE TO UTILIZE INTEGRATED PHOTOCELL FOR CONTROL.
  - PROVIDE 4" RECESSED JUNCTION BOX FOR WIRELESS CONNECTION POINT AND UTILIZE CIRCUIT R1-40 FOR POWER AS REQUIRED.
  - CONTINUED TO NEXT LEVEL.



**1 ELECTRICAL SECOND FLOOR - CEILING PLAN**  
SCALE: 1/4" = 1'-0"

FOR CONSTRUCTION

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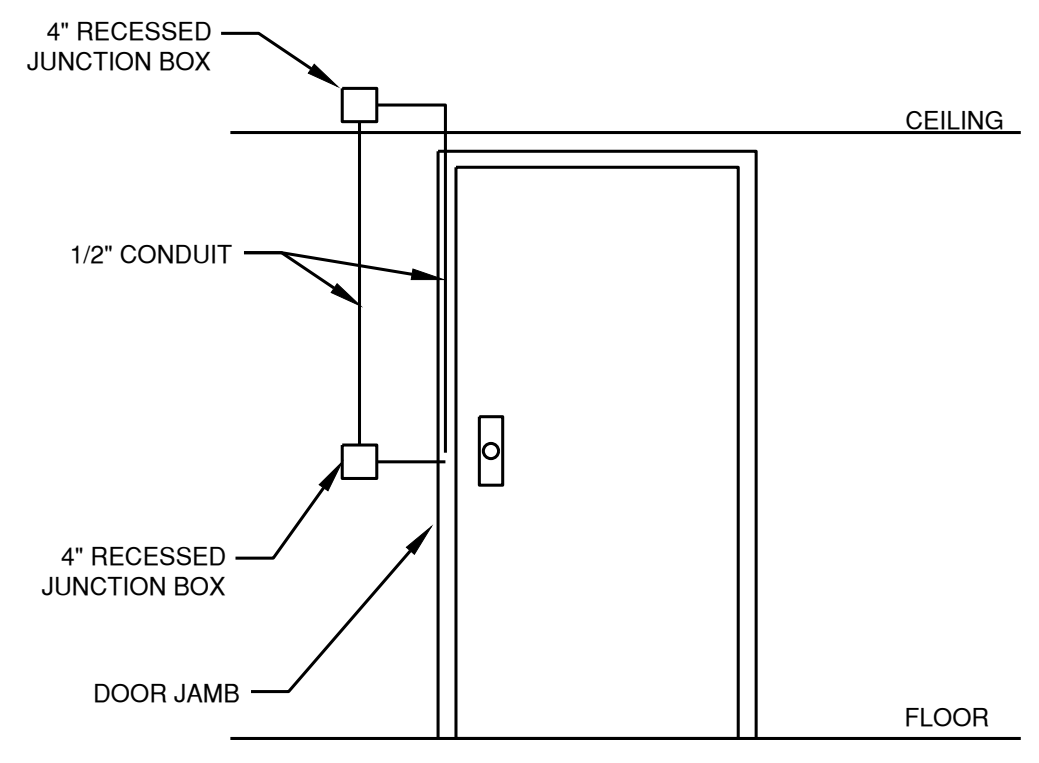
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**LOW VOLTAGE GENERAL NOTES:**

- ELECTRICAL CONTRACTOR TO CONTRACT WITH LICENSED LOW VOLTAGE CONTRACTOR TO PROVIDE ALL LOW VOLTAGE CABLING, RACEWAY, JUNCTION BOXES, AND DATA PLATES. PROVIDE ALL TERMINATIONS AND CABLE LABELING.
- EACH DATA DROP SHOWN SHALL CONSIST OF (2) CAT6A CABLES AND DUAL PORT DATA PLATE. ROUTE CABLES TO IT ROOM.
- EACH CAMERA AND WIRE ACCESS POINT (WAP) ARE TO HAVE (1) CAT6A DATA CABLE INSTALLED AND ROUTED BACK TO THE IT ROOM.
- ALL LOW VOLTAGE CABLING ABOVE CEILING SHALL BE ROUTED ALONG CORRIDORS ON J-HOOKS. ELECTRICAL CONTRACTOR TO PROVIDE J-HOOKS AND INSTALL PER CITY DIRECTION. ACROSS OPEN CEILINGS, CONTRACTOR IS TO PROVIDE 4" PANDUIT TYPE CABLE TRAY HANGING FROM STRUCTURE.
- ELECTRICAL CONTRACTOR TO PROVIDE 12-PAIR FIBER BETWEEN BUILDINGS AND TERMINATE EACH FIBER. SEE NOTE 6 FOR CONDUIT INFORMATION AND TERMINATION POINTS.
- EACH KEY PAD LOCATION SHALL HAVE (2) CAT6A DATA CABLES INSTALLED, TERMINATED, AND ROUTED TO IT ROOM.
- ALL CAT6A AND FIBER CABLES ARE TO BE TESTED AND CERTIFIED BY LOW VOLTAGE CONTRACTOR.
- ALL CAT6A CABLE IS TO BE TERMINATED AT PATCH PANEL AND LABELED ON BOTH ENDS OF THE CABLE. PROVIDE TYPED-WRITTEN NUMBER AT EACH DATA PORT IDENTIFYING THE CABLE NUMBER WITH ADHESIVE LABEL.
- SEE SHEET E7.0 FOR TABLES LISTING EQUIPMENT PROVIDED AND INSTALLED BY EC. EQUIPMENT PROVIDED BY DALTON AND INSTALLED BY EC, AND DALTON PROVIDED AND INSTALLED EQUIPMENT.



**3 CARD ACCESS AT DOORS**  
SCALE: NTS

**FLOOR PLAN GENERAL NOTES:**

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL MECHANICAL AND PLUMBING EQUIPMENT ELECTRICAL REQUIREMENTS WITH THOSE CONTRACTORS ON EQUIPMENT PURCHASED AS IT MAY DIFFER FROM THESE PLANS. PROVIDE MANUFACTURER'S RECOMMENDED FEEDER, OVERCURRENT PROTECTION, AND DISCONNECT FOR EQUIPMENT PURCHASED WITH NO ADDITIONAL COST TO THE OWNER.
- ALL 15A/20A RECEPTACLES IN KITCHENS, FOOD PREP AREAS, RESTROOMS, OR ON EXTERIOR SHALL BE GFCI TYPE. GFCI RECEPTACLES SHALL BE INSTALLED IN ACCORDANCE WITH NEC ARTICLE 210.8 AND BE READILY ACCESSIBLE. FOR EQUIPMENT THAT WOULD HAVE TO BE MOVED TO RESET THE RECEPTACLE PER THE NEC DEFINITION, A GFCI BREAKER SHALL BE UTILIZED IN LIEU OF A RECEPTACLE.
- COORDINATE WITH OWNER/ARCHITECT ON DEVICE/PLATE COLOR THROUGHOUT SUITE PRIOR TO PURCHASE OR INSTALLATION. CONFIRM ALL MOUNTING HEIGHTS AND LOCATIONS.
- NOTE RECEPTACLES WITH ISOLATED GROUND (IG). PROVIDE ISOLATED GROUND RECEPTACLE AND ADDITIONAL INSULATED GREEN GROUND CONDUCTOR WITH YELLOW STRIPE BACK TO DISTRIBUTION PANEL GROUND BAR.
- PROVIDE FIRE CAULKING AROUND ANY THROUGH WALL PENETRATION OF FIRE RATED WALLS.

**FLOOR PLAN KEY NOTES:**

- EACH RECEPTACLE SHOWN AT COUNTER HEIGHT SHALL BE 44" ABOVE FINISHED FLOOR.
- PROVIDE (3) 4" X 8" X 3/4" FIRE RESISTANT PLYWOOD BACKBOARD PAINTED GRAY FOR TELEPHONE SYSTEM. CONNECT #6 AWG, INSULATED, STRANDED, COPPER GROUND WIRE FROM TELEPHONE SYSTEM TO GROUND BUS AT MAIN PANEL. ROUTE (2) 2" PVC CONDUITS BELOW GRADE TO ADJACENT BUILDING. PROVIDE PULL STRING, AND CAP BOTH ENDS. COORDINATE WITH SERVICE PROVIDER AND OWNER ON EXACT REQUIREMENTS.
- PROVIDE RECESSED 4" JUNCTION BOX IN WALL JUST BELOW FINISHED CEILING AND 3/4" CONDUIT STUBBED TO ABOVE ACCESSIBLE CEILING FOR CAMERA BY OTHERS. COORDINATE WITH OWNER ON LOCATION AND MOUNTING HEIGHT. EC TO INSTALL CAMERA.
- PROVIDE 4" RECESSED JUNCTION BOX AND 3/4" CONDUIT STUBBED TO ABOVE CEILING FOR PANIC BUTTON BY OTHERS. COORDINATE WITH OWNER ON LOCATION AND MOUNTING HEIGHT. EC TO INSTALL BUTTON.
- PROVIDE 4" RECESSED JUNCTION BOX FOR CARD ACCESS FOR DOOR. STUB 1/2" CONDUIT TO BE ACCESSIBLE CEILING. PROVIDE ALL NECESSARY CONNECTIONS FOR MAG LOCK. SEE DETAIL 3 THIS SHEET FOR REQUIREMENTS.
- PROVIDE 2" CONDUIT FROM MECH/IT ROOM 112 OUT OF BUILDING BELOW GRADE TO ADJACENT BUILDING. CONDUIT WILL BE ROUTED ABOVE CEILING TO THE EXISTING CORRIDOR J-HOOK LOCATION. COORDINATE WITH OWNER ON CONDUIT ROUTING AND TERMINATION. PROVIDE 12-PAIR FIBER OPTIC CABLE FROM IT ROOM TO IT ROOM IN ADJACENT BUILDING. ALL CONDUIT BENDS SHALL BE WIDE SWEEP TYPE FOR FIBER CABLING.
- PROVIDE 1-1/2" CONDUIT FROM BUILDING BELOW GRADE TO PERIMETER FENCE. STUB UP AT FENCE, CAP BOTH ENDS, AND PROVIDE PULL STRING.
- PROVIDE CONNECTION FROM FIRE ALARM SYSTEM TO FIRE/SMOKE DAMPER. PROVIDE 120V FROM NEAREST RECEPTACLE AS REQUIRED.
- PROVIDE 1" CONDUIT BELOW GRADE TO GENERATOR FROM IT ROOM ALONG WITH (3) CAT6 CABLES FOR COMMUNICATION.
- PROVIDE 4" RECESSED JUNCTION BOX FOR SECURITY KEY PAD, STUB 3/4" CONDUIT TO BE ACCESSIBLE CEILING. PROVIDE ALL NECESSARY CONNECTIONS.
- PROVIDE J-HOOKS 8" ABOVE FINISHED CEILING ALONG WALL EVERY 24".
- PROVIDE 4" SLEEVES THROUGH WALL FOR LOW VOLTAGE CABLING TYPICAL UNLESS NOTED OTHERWISE. SLEEVE TO BE LOCATED ABOVE FINISHED CEILING.
- INSTALL KENDALL HOWARD ENCLOSED 6U V-RACK. PROVIDE PATCH PANEL AND INSTALL VERTICALLY IN THE RACK. RACK IS BY OWNER.

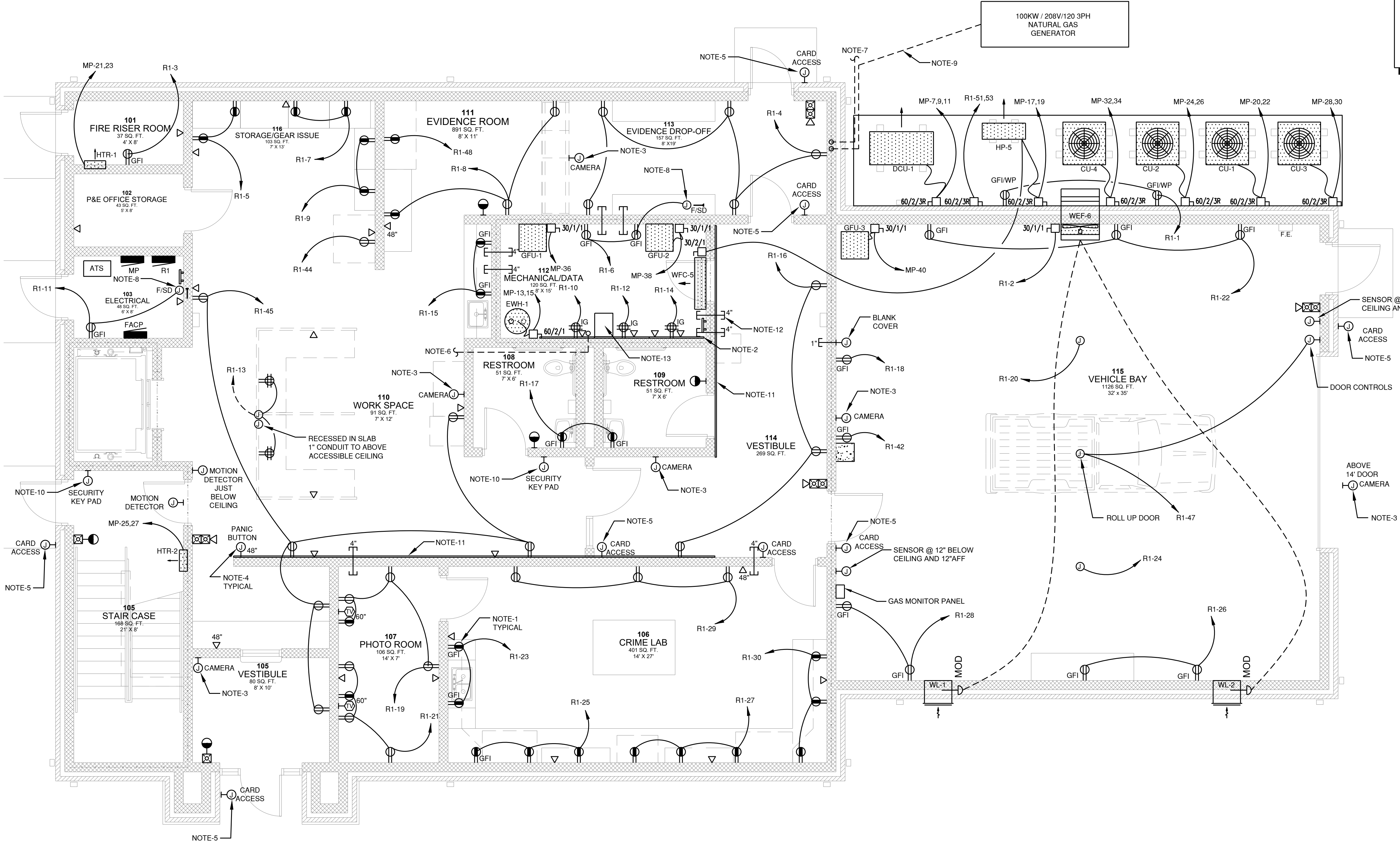
**ELEVATOR GENERAL NOTES:**

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL ELEVATOR SYSTEM REQUIREMENTS AND TO WIRE ACCORDINGLY. VERIFY LOCATIONS OF ALL EQUIPMENT, VERIFY OVERCURRENT PROTECTION, WIRING, AND DISCONNECT REQUIREMENTS, AND PROVIDE AS REQUIRED.
- LIGHT LEVELS AT THE PIT FLOOR SHALL BE 10 FOOT CANDLES. LIGHT LEVELS AT THE MACHINE EQUIPMENT SPACE SHALL BE 19 FOOT CANDLES. CONTRACTOR TO LOCATE LIGHTING ACCORDINGLY AND PROVIDE ADDITIONAL FIXTURES AS REQUIRED TO MEET THESE REQUIREMENTS.
- NOTE THE ELEVATOR DOES NOT UTILIZE A MACHINE ROOM.

**ELEVATOR KEY NOTES:**

- LOCATE LIGHT SWITCH 42" ABOVE THE SEAL PLATE ADJACENT TO THE LADDER AND ACCESS DOOR.
- PROVIDE TELEPHONE CABLE FROM TTB IN 3/4" C. UP HOISTWAY TO TERMINATION POINT FOR THE ELEVATOR. AS REQUIRED.
- PROVIDE WIRING FROM A NORMALLY CLOSED SET OF CONTACTS FROM ALL HEAT DETECTORS ADJACENT TO ELEVATOR DOORS, AND THE SMOKE DETECTOR OUTSIDE THE ELEVATOR DOORS, AND THE SMOKE DETECTOR AT THE TOP OF THE ELEVATOR SHAFT, TO A POINT IN THE ELEVATOR CONTROLLER AS DESIGNATED BY THE ELEVATOR MANUFACTURER.
- LOCATE SMOKE DETECTOR, HEAT DETECTOR, AND FLOW SWITCH AT TOP ELEVATOR SHAFT.
- PROVIDE LOCKABLE DISCONNECT SWITCH WITH CURRENT-LIMITING RK-1 FUSES, SIZED PER THE MANUFACTURER'S RECOMMENDATIONS, FOR THE ELEVATOR MOTOR. PROVIDE FLEXIBLE CONNECTION TO THE CONTROLLER MOTOR TERMINALS. PROVIDE WIRING SIZED FOR THE DISCONNECT SWITCH FUSE AMP RATING. COORDINATE LOCATION OF DISCONNECT SWITCH WITH ELEVATOR CONTRACTOR. REFER TO EQUIPMENT WIRING SCHEDULE FOR FURTHER INFORMATION.
- PROVIDE LOCKABLE 30A/1P/15AF DISCONNECT SWITCH FOR POWER TO ELEVATOR CAB LIGHT, RECEPTACLES, AND VENTILATION. COORDINATE LOCATION OF DISCONNECT SWITCH WITH ELEVATOR CONTROLLER. VERIFY EXACT LOCATION AND REQUIRED QUANTITIES OF TAMPER AND/OR FLOW SWITCH.

**2 ELEVATOR PLAN**  
SCALE: 1/4" = 1'-0"



**1 ELECTRICAL FIRST FLOOR - FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

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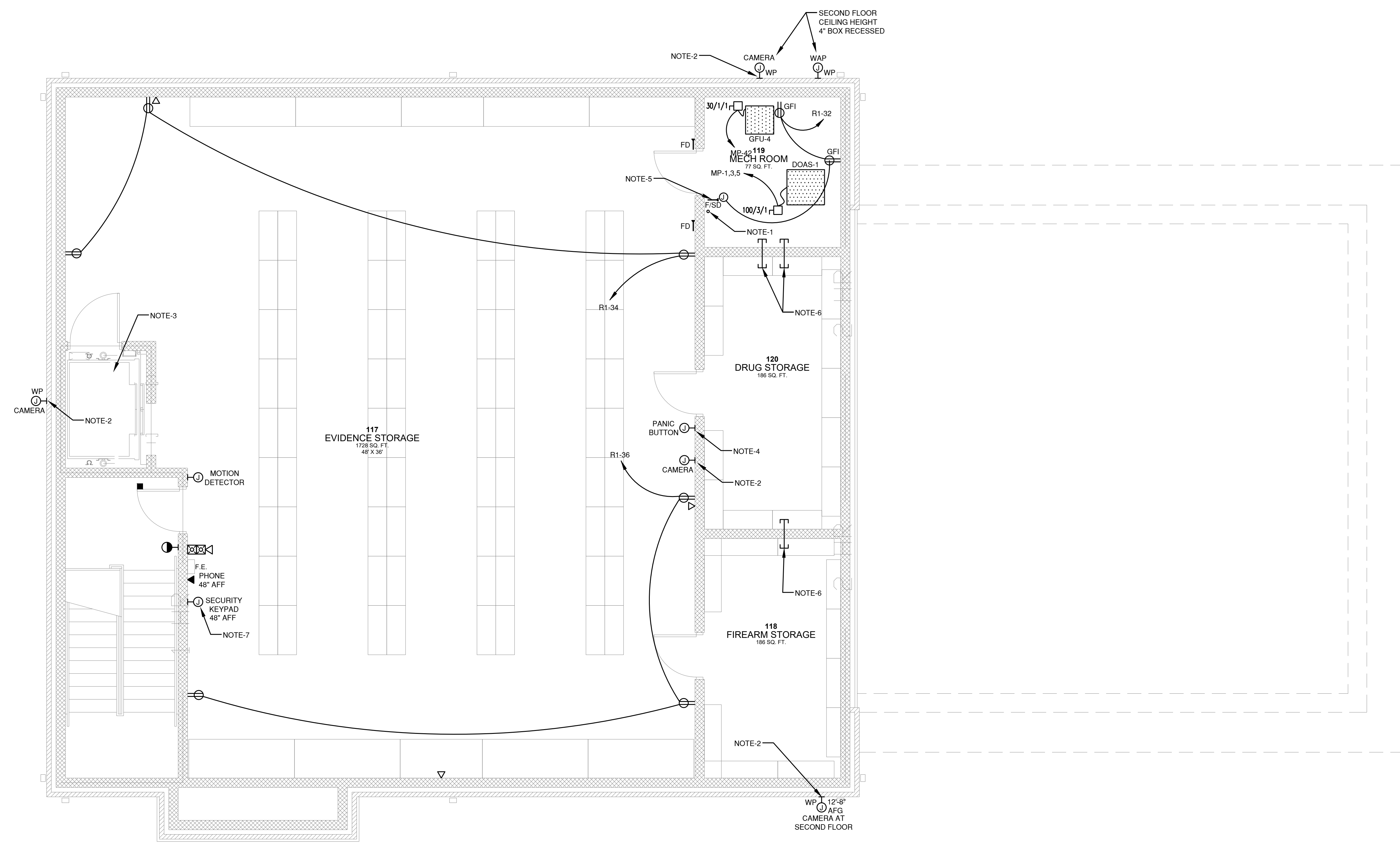


**FLOOR PLAN GENERAL NOTES:**

- A. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL MECHANICAL AND PLUMBING EQUIPMENT ELECTRICAL REQUIREMENTS WITH THOSE CONTRACTORS ON EQUIPMENT PURCHASED AS IT MAY DIFFER FROM THESE PLANS. PROVIDE MANUFACTURE'S RECOMMENDED FEEDER, OVERCURRENT PROTECTION, AND DISCONNECT FOR EQUIPMENT PURCHASED WITH NO ADDITIONAL COST TO THE OWNER.
- B. ALL 15A/20A RECEPTACLES IN KITCHENS, FOOD PREP AREAS, RESTROOMS, OR ON EXTERIOR SHALL BE GFCI TYPE. GFCI RECEPTACLES SHALL BE INSTALLED IN ACCORDANCE WITH NEC ARTICLE 210.8 AND BE READILY ACCESSIBLE. FOR EQUIPMENT THAT WOULD HAVE TO BE MOVED TO RESET THE RECEPTACLE PER THE NEC DEFINITION, A GFCI BREAKER SHALL BE UTILIZED IN LIEU OF A RECEPTACLE.
- C. COORDINATE WITH OWNER/ARCHITECT ON DEVICE/PLATE COLOR THROUGHOUT SUITE PRIOR TO PURCHASE OR INSTALLATION. CONFIRM ALL MOUNTING HEIGHTS AND LOCATIONS.
- D. PROVIDE FIRE CAULKING AROUND ANY THROUGH WALL PENETRATION OF FIRE RATED WALLS.
- E. SEE SHEET E7.0 FOR TABLES LISTING EQUIPMENT PROVIDED AND INSTALLED BY EC, EQUIPMENT PROVIDED BY DALTON AND INSTALLED BY EC, AND DALTON PROVIDED AND INSTALLED EQUIPMENT.

**FLOOR PLAN KEY NOTES:**

- 1. PROVIDE 4" CONDUIT BETWEEN MECHANICAL ROOM 119 AND MECH/DATA ROOM 112 FOR FUTURE LOW VOLTAGE PROVISIONS.
- 2. PROVIDE RECESSED 4" JUNCTION BOX AND 3/4" CONDUIT STUBBED TO ABOVE ACCESSIBLE CEILING FOR CAMERA BY OTHERS. COORDINATE WITH OWNER ON LOCATION AND MOUNTING HEIGHT.
- 3. SEE ELEVATOR DETAIL ON SHEET E5.0 FOR REQUIREMENTS.
- 4. PROVIDE 4" RECESSED JUNCTION BOX AND 3/4" CONDUIT STUBBED TO ABOVE CEILING FOR PANIC BUTTON BY OTHERS. COORDINATE WITH OWNER ON LOCATION AND MOUNTING HEIGHT.
- 5. PROVIDE CONNECTION FROM FIRE ALARM SYSTEM TO FIRE/SMOKE DAMPER. PROVIDE 120V FROM NEAREST RECEPTACLE AS REQUIRED.
- 6. PROVIDE 4" SLEEVES THROUGH WALL FOR FUTURE LOW VOLTAGE CABLING.
- 7. PROVIDE 4" RECESSED JUNCTION BOX FOR SECURITY KEY PAD. STUB 3/4" CONDUIT TO BE ACCESSIBLE CEILING. PROVIDE ALL NECESSARY CONNECTIONS.



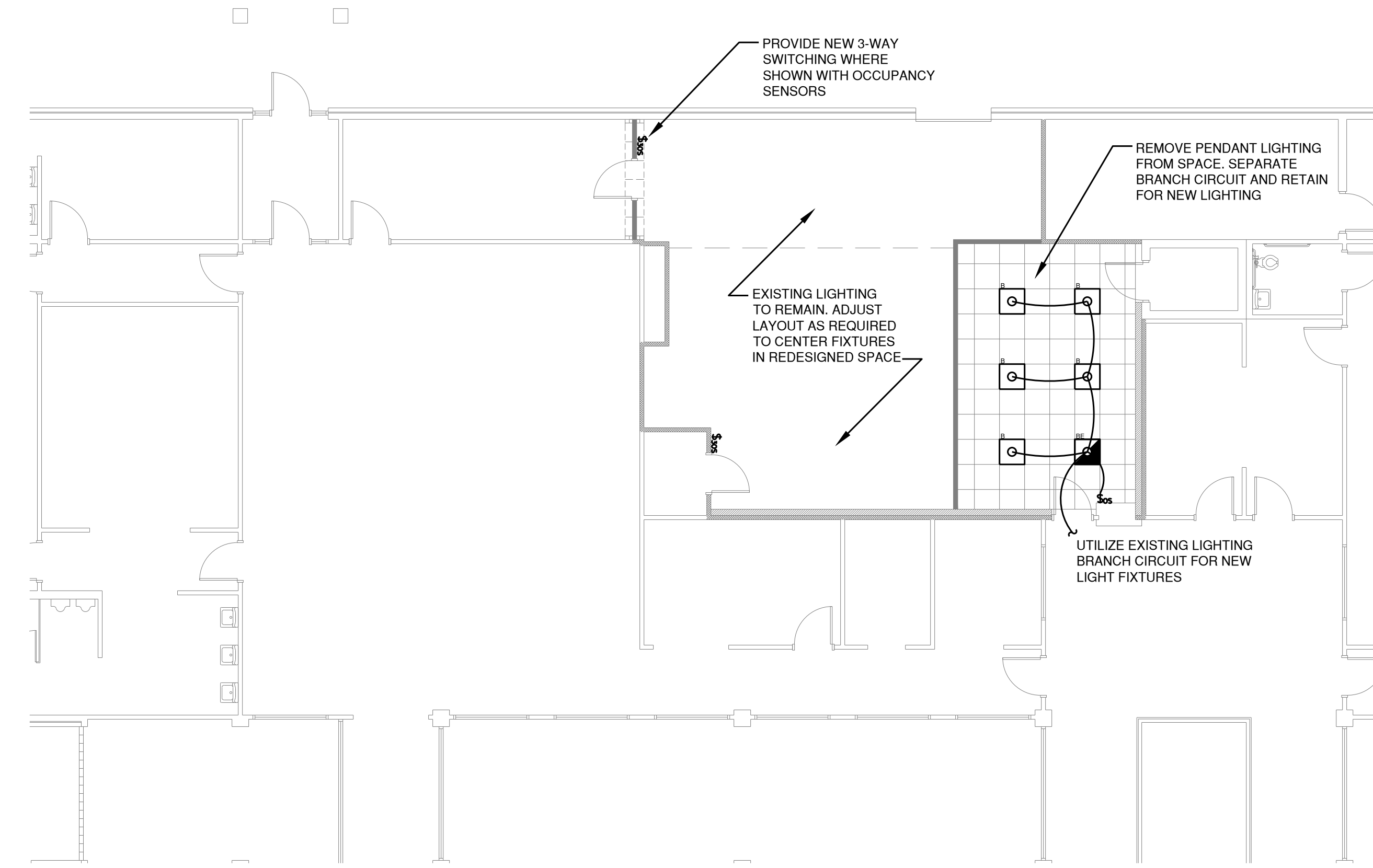
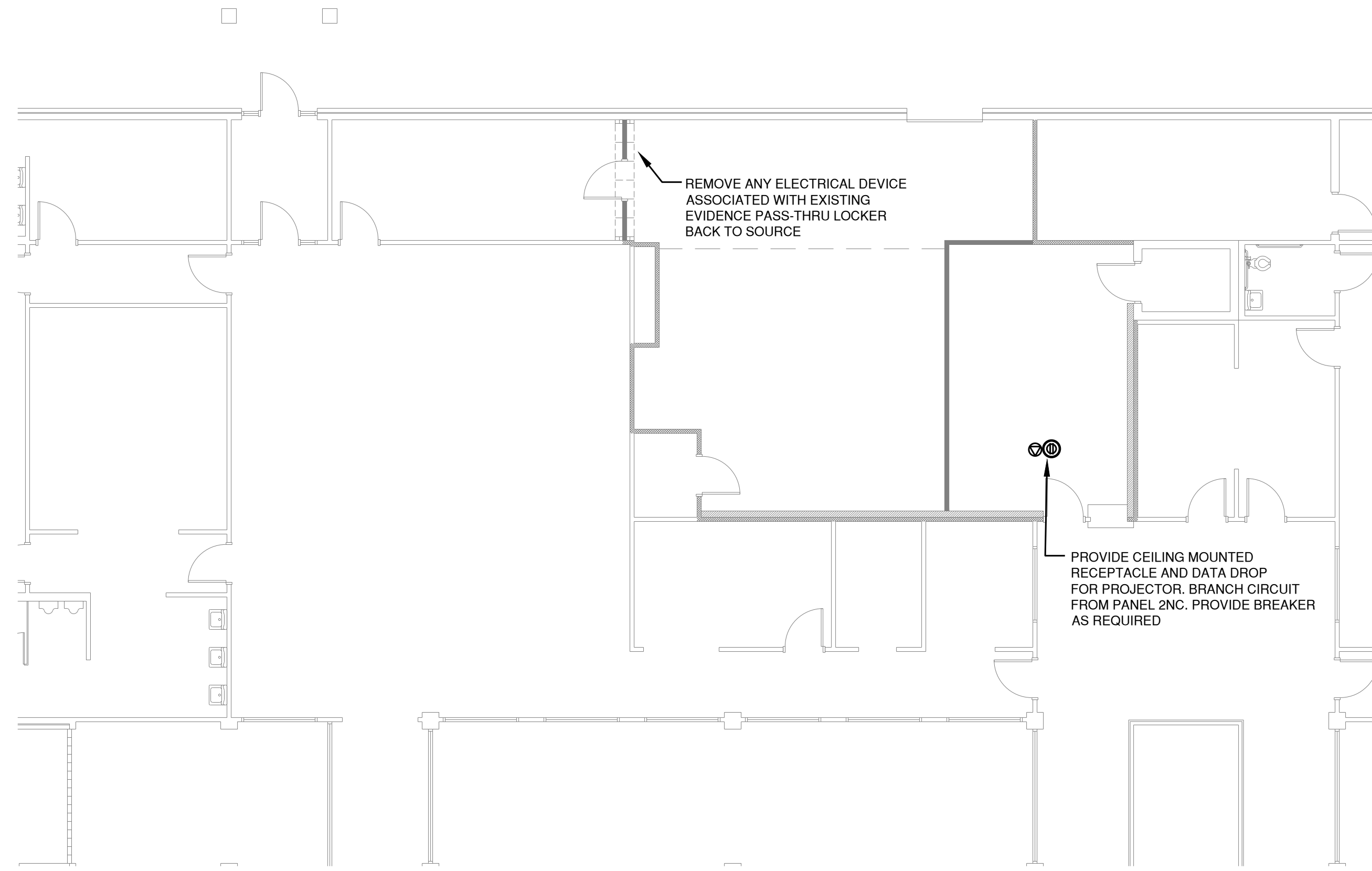
**1 ELECTRICAL SECOND FLOOR - FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

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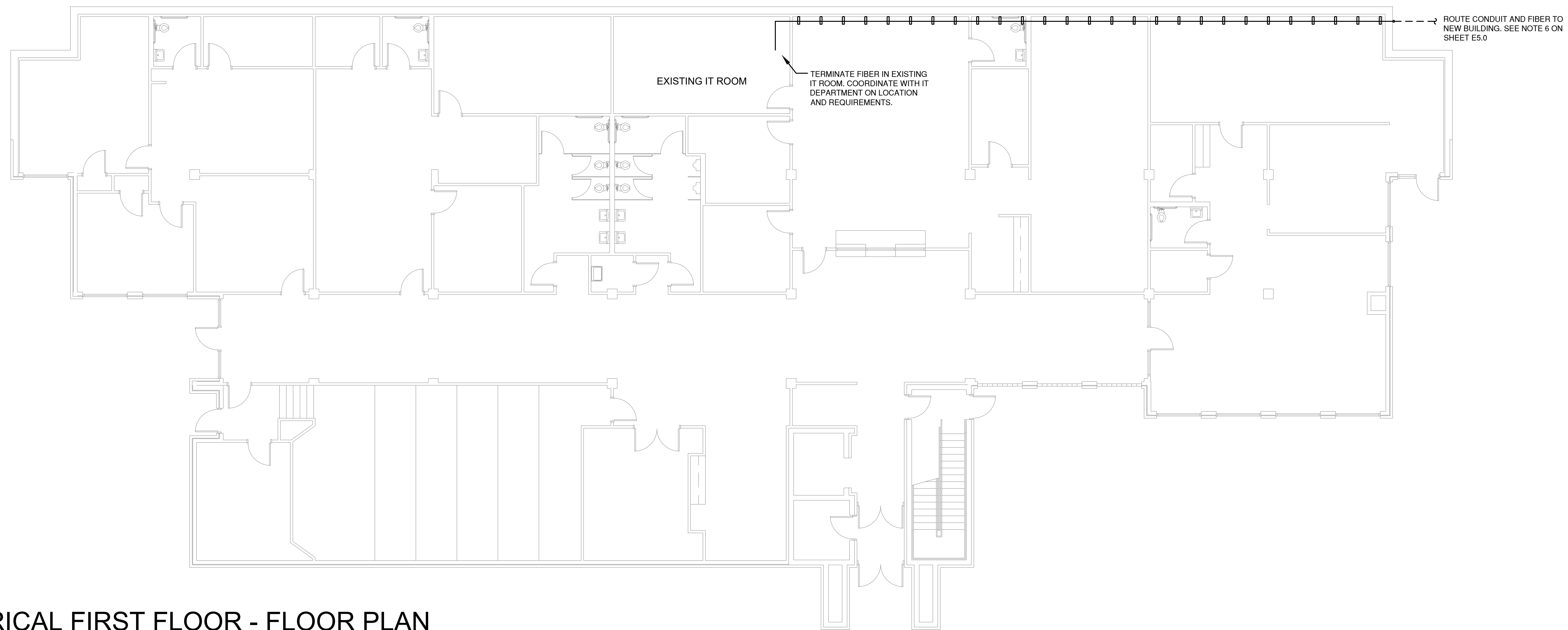






**1 ELECTRICAL SECOND FLOOR - FLOOR PLAN**  
SCALE: 1/8" = 1'-0"

**1 ELECTRICAL SECOND FLOOR - FLOOR PLAN**  
SCALE: 1/8" = 1'-0"



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

PROJECT NUMBER  
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DALTON, GA 30721  
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A NEW BUILDING FOR:  
**DALTON POLICE DEPARTMENT**  
WHITFIELD COUNTY  
DALTON, GA 30720

SHEET INDEX  
EXISTING POLICE SERVICES BUILDING ELECTRICAL PLAN

SHEET INDEX

**E8.0**

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