



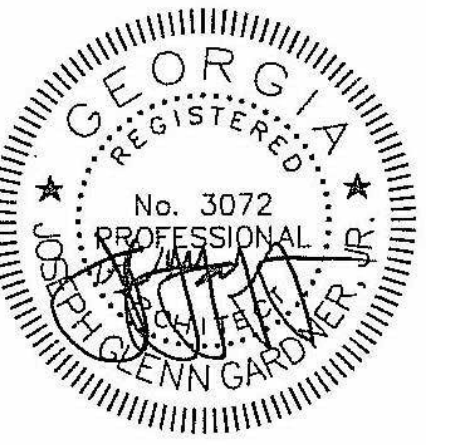
HEARD COUNTY FIRE STATION #5

365 Joe Stephens Road
Franklin, GA 30217

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RELEASED FOR CONSTRUCTION

No.	Date	Description
1	03/06/24	Issued for Bid



**Gardner
Spencer
Smith
&
Tench &
Jarbeau**

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for the Practice of Architecture
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PROJECT NO.

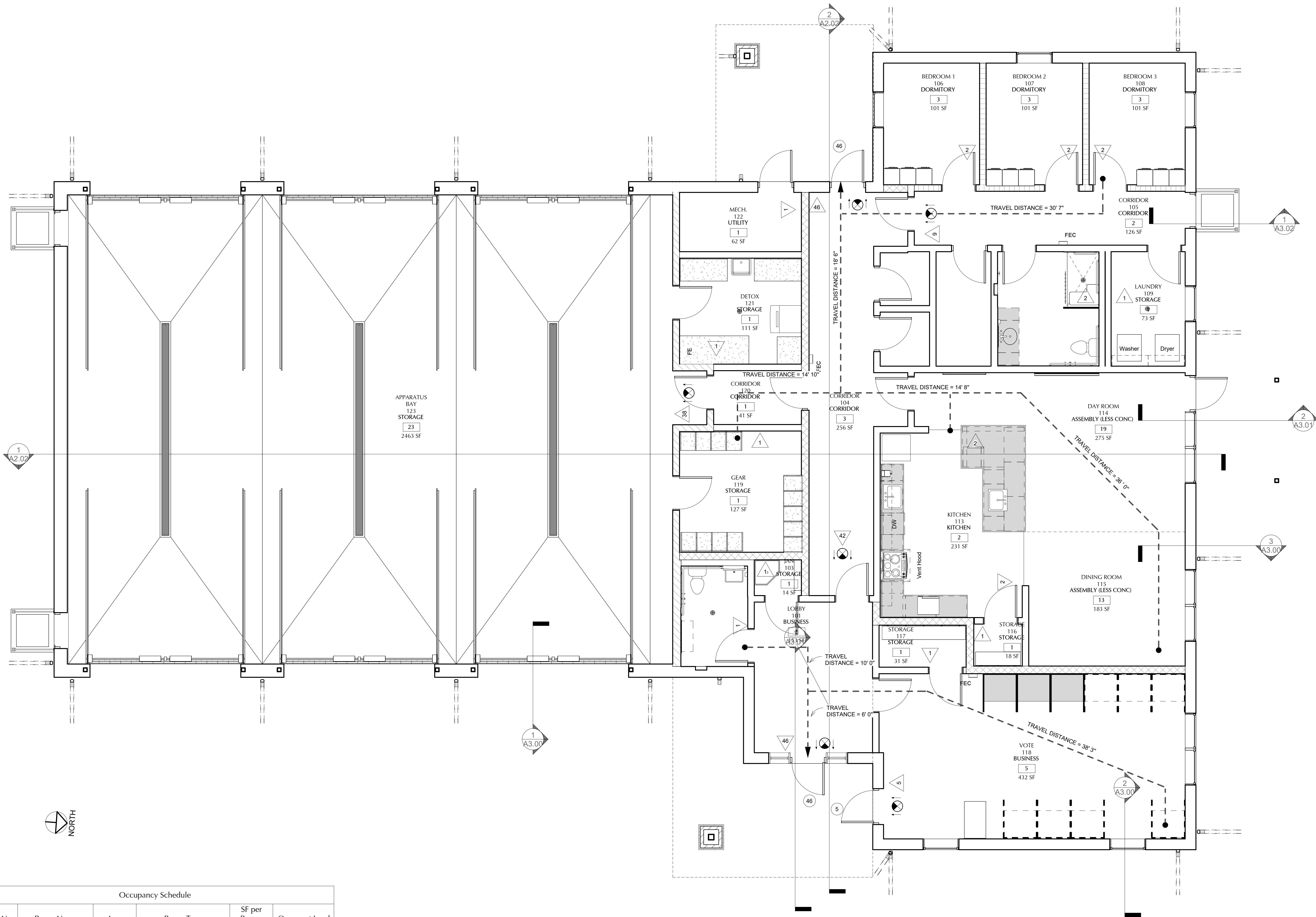
22125

SHEET TITLE

LIFE SAFETY PLAN

SHEET NO.

G1.11



Room No.	Room Name	Area	Room Type	SF per Person	Occupant Load
101	LOBBY	153 SF	Assembly (Less Conc)	15 SF	11
103	GEAR	127 SF	Storage	500 SF	1
103A	JAN	14 SF	Storage	500 SF	1
104	VOTE	432 SF	Assembly (Less Conc)	15 SF	29
104A	STORAGE	31 SF	Storage	500 SF	1
105	CORRIDOR	256 SF	Dormitory	150 SF	2
106	KITCHEN	231 SF	Kitchen	100 SF	3
106A	STORAGE	18 SF	Storage	500 SF	1
107	DAY ROOM	275 SF	Dormitory	200 SF	2
108	DINING ROOM	183 SF	Dormitory	200 SF	1
109	DETOX	111 SF	Storage	500 SF	1
110	MECH.	62 SF	Storage	500 SF	1
113	LAUNDRY	73 SF	Storage	500 SF	1
114	CORRIDOR	126 SF	Dormitory	200 SF	1
115	BEDROOM 1	101 SF	Dormitory	200 SF	1
116	BEDROOM 2	101 SF	Dormitory	200 SF	1
117	BEDROOM 3	101 SF	Dormitory	200 SF	1
121	APPARATUS BAY	2463 SF	Storage	500 SF	5
124	STORAGE	54 SF	Storage	500 SF	1
125	CORRIDOR	41 SF	Storage	150 SF	1
Grand total					66

- LIFE SAFETY LEGEND**
- ONE HOUR RATED PARTITION TO STRUCTURE
 - ONE HOUR RATED CMU PARTITION TO STRUCTURE
 - SINGLE FACED EXIT SIGN
 - DOUBLE FACED EXIT SIGN WITH ARROWS
 - TRAVEL PATH
 - MAXIMUM TRAVEL PATH FOR SPRINKLERED ASSEMBLY OCCUPANCY = 250'-0" (PER NFPA 101 12.2.6.2)
 - WALL MOUNTED FIRE EXTINGUISHER
 - SEMI-RECESSED FIRE EXTINGUISHER CABINET
 - DOOR CAPACITY
 - ROOM OCCUPANT LOAD
 - NUMBER OF OCCUPANTS USING EXIT DOOR
- TOTAL EXIT WIDTH REQUIRED: 172 OCCUPANTS X 0.2" PER PERSON = 34.4"
- TOTAL EXIT WIDTH PROVIDED: (33.25" PER SINGLE DOOR X 5 DOORS) + (66.5" PER DOUBLE DOOR X 4 DOORS) = 432.25"

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CONSTRUCTION NOTES

- THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO COVER A COMPLETE PROJECT, READY TO USE, AND ALL ITEMS NECESSARY FOR A COMPLETE AND WORKABLE JOB SHALL BE FURNISHED AND INSTALLED. ANY DISCREPANCY SHALL BE IMMEDIATELY REPORTED TO THE OWNER OR HIS REPRESENTATIVE.
- NOTIFY THE INSPECTOR OF THE LOCAL GOVERNING AUTHORITY 24 HOURS BEFORE EVERY PHASE OF CONSTRUCTION.
- ALL WORK SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES. ALL NECESSARY LICENSES AND PERMITS SHALL BE OBTAINED BY THE CONTRACTOR, AT HIS EXPENSE, UNLESS ALREADY OBTAINED BY THE OWNER.
- THE CONTRACTOR SHALL COORDINATE LOCATION AND INSTALLATION OF ALL UNDERGROUND UTILITIES AND APPURTENANCES TO MINIMIZE DISTURBING CURBING, PAVING, AND ALL OTHER UTILITIES.
- THE EXISTING UTILITIES SHOWN ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE DRAWINGS. THE UTILITIES SHOWN ARE THOSE LOCATED BY THE SURVEYOR OF RECORD. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATION OF THE UTILITIES SHOWN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATIONS OF ALL UTILITIES WITHIN THE LIMITS OF WORK. ALL DAMAGE MADE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- DEVIATIONS FROM THESE PLANS AND SPECIFICATIONS WITHOUT PRIOR CONSENT OF THE ENGINEER AND THE MUNICIPALITY MAY CAUSE FOR THE WORK TO BE UNACCEPTABLE.
- ALL MATERIALS SHALL BE NEW UNLESS USED OR SALVAGED MATERIALS ARE AUTHORIZED BY THE OWNER.
- THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES AROUND THE WORK AND SHALL PROVIDE PROTECTION AGAINST WATER DAMAGE AND SOIL EROSION.
- ALL WORK SHALL BE PERFORMED IN A FINISHED AND WORKMANLIKE MANNER TO THE ENTIRE SATISFACTION OF THE OWNER, AND IN ACCORDANCE WITH THE BEST RECOGNIZED TRADE PRACTICES.
- THE CONTRACTOR SHALL PROVIDE SHEETING AND SHORING FOR ALL TRENCH CONSTRUCTION IN ACCORDANCE WITH OSHA GUIDELINES.
- ALL PIPE LENGTHS SHOWN ARE TO THE CENTERLINE OF THE STRUCTURES UNLESS SPECIFICALLY NOTED.
- PIPES (STORM AND SANITARY SEWER) SHALL BE LAID ON SMOOTH, CONTINUOUS GRADES WITH NO VISIBLE BENDS AT THE JOINTS.
- BEDDING REQUIREMENTS SPECIFIED HEREIN ARE TO BE CONSIDERED AS MINIMUM REQUIRED FOR RELATIVELY DRY STABLE EARTH CONDITIONS. ADDITIONAL BEDDING SHALL BE REQUIRED FOR ROCK TRENCHES TO PROVIDE SUCH ADDITIONAL BEDDING AS REQUIRED TO PROPERLY CONSTRUCT WORK.
- ALL STORM DRAINAGE INLET STRUCTURES SHALL HAVE METAL RING AND COVER FOR ACCESS.
- ALL ANGLES SHOWN ARE 90 DEGREES UNLESS SHOWN OTHERWISE.
- ALL GRADES SHOWN ARE FINISHED GRADES. CONTRACTOR SHALL VERIFY DIMENSIONS, GRADES, AND EXISTING ELEVATIONS PRIOR TO CONSTRUCTION.
- CONCRETE CURBS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS SHOWN ON PLANS. MATERIALS, EQUIPMENT, METHODS OF CONSTRUCTION AND WORKMANSHIP SHALL CONFORM TO STATE D.O.T. STANDARD SPECIFICATIONS.
- ALL CONCRETE SHALL HAVE 3000 PSI COMPRESSIVE STRENGTH AFTER 28 DAYS, WITH A MAXIMUM SLUMP OF FOUR (4) INCHES, UNLESS SPECIFIED OTHERWISE.
- ALL EXPOSED CONCRETE SHALL HAVE A FINE HAIR BROOMED FINISH.
- PARKING AND DRIVEWAY BASE COURSE AND ASPHALTIC CONCRETE SURFACE AND PRIME MATERIALS, EQUIPMENT, METHODS FOR CONSTRUCTION AND WORKMANSHIP SHALL CONFORM TO STATE D.O.T. STANDARD SPECIFICATIONS.
- CONTRACTOR TO FIELD VERIFY ALL STORM, SANITARY, WATER AND OTHER UTILITIES LOCATIONS AND INVERTS PRIOR TO INSTALLATION OF ANY UTILITIES. NOTIFY ENGINEER PRIOR TO PROCEEDING WITH ANY WORK IF DISCREPANCIES FOUND.
- THE USE OF CONCRETE THRUST BLOCKS FOR THE INSTALLATION OF WATER MAINS IS STRICTLY PROHIBITED. PRESSURE PIPE FITTINGS AND OTHER ITEMS REQUIRING RESTRAINT SHALL BE RESTRAINED USING METHODS SPECIFIED AND APPROVED BY COUNTY/CITY TECHNICAL STANDARDS, SPECIFICATIONS AND REGULATIONS. THE PREFERRED METHOD OF RESTRAINT IS THROUGH THE USE OF "MEGA-LUGS" OR "MJR" DEVICES.
- ALL DIMENSIONS ARE MEASURED TO THE BACK OF CURB UNLESS OTHERWISE NOTED.

EARTHWORK SPECIFICATIONS

CLEARING AND GRUBBING

- CLEARING AND GRUBBING SHALL CONSIST OF CLEARING THE SURFACE OF THE GROUND OF THE DESIGNATED AREAS OF ALL TREES, LOGS, SNAGS, BRUSH, UNDERGROWTH, HEAVY GROWTH OF GRASS, WEEDS, FENCE STRUCTURES, DEBRIS AND RUBBISH OF ANY NATURE, NATURAL OBSTRUCTIONS SUCH AS OBJECTIONABLE SOIL MATERIAL UNSATISFACTORY FOR FOUNDATIONS. IT SHALL ALSO CONSIST OF GRUBBING OF STUMPS, ROOTS FOUNDATIONS AND DISPOSAL OF ALL SUCH MATERIAL. ALL HOLES REMAINING AFTER THE GRUBBING OPERATION IN EMBANKMENT AREAS AND IN EXCAVATION AREAS LESS THAN TWO (2) FEET IN DEPTH SHALL HAVE SIDES BROKEN DOWN AND LEVELED IF NECESSARY TO FLATTEN OUT SLOPES, REFILED WITH ACCEPTABLE MATERIAL THAT IS PROPERLY COMPACTED IN LAYERS BY TAMPERS, ROLLERS OR CONSTRUCTION EQUIPMENT.
- BURNING ON SITE IS NOT PERMITTED WITHOUT WRITTEN APPROVAL OF THE LOCAL GOVERNING AUTHORITIES HAVING JURISDICTION.

EXISTING TREES OUTSIDE OF GRADING LIMITS LINE:

- TREES AND VEGETATION TO BE SAVED SHALL BE PROTECTED FROM DAMAGE BY A FENCE BARRICADE PRIOR TO, OR DURING, CLEARING OPERATIONS. TREES TO BE REMOVED FROM THE AREA OUTSIDE THE LIMITS OF GRADING OR FROM SPECIFICALLY DESIGNATED AREAS WITHIN THE CONSTRUCTION AREAS. IF, IN THE OPINION OF THE ENGINEER, A CONTRACTOR DAMAGES A TREE NOT TO BE REMOVED, THE CONTRACTOR WILL BE FINED A PREDETERMINED AMOUNT FOR EACH DAMAGED TREE. THE CONTRACT SHALL ALSO BE RESPONSIBLE FOR ALL COSTS ASSOCIATED IN REMOVING THE DAMAGED TREE FROM THE SITE.

FILL:

- ALL VEGETATION SUCH AS ROOTS, BRUSH, HEAVY GROWTH OF GRASS, TOPSOIL, ALL DECAYED VEGETABLE MATTER, RUBBISH, AND OTHER UNSUITABLE MATERIAL WITHIN THE AREA UPON WHICH FILL IS TO BE PLACED SHALL BE STRIPPED OR BE OTHERWISE REMOVED BEFORE THE FILL OPERATION IS STARTED. IN NO CASE SHALL UNSUITABLE MATERIAL REMAIN IN OR UNDER THE FILL AREA. SLOPED GROUND SURFACE STEEPER THAN ON VERTICAL TO FOUR HORIZONTAL, ON WHICH FILL IS TO BE PLACED, SHALL BE PLACED, STEPPED OR BENCHED IN SUCH A MANNER THAT THE FILL TO BE PLACED SHALL BE 97 PERCENT OF THE MAXIMUM LABORATORY DRY DENSITY ACCORDING TO STANDARD PROCTOR (AASHTO 199, ASTM D-698); MOISTURE CONTENT SHALL BE WITHIN 3 PERCENT OF THE OPTIMUM MOISTURE CONTENT. PROOF ROLL THE AREAS TO BE FILLED OR ON WHICH STRUCTURES ARE TO BE PLACED. A LOADED DUMP TRUCK OR OTHER RUBBER Tired EQUIPMENT SHALL BE USED FOR PROOF ROLLING. OVERLAPPING PASSES OF A VEHICLES SHOULD BE MADE ACROSS THE SITE IN ONE DIRECTION AND THEN PERPENDICULAR TO THE ORIGINAL DIRECTION OF ROLLING.
- ANY YIELDING, PUMPING OR SOFT AREAS SHOULD BE CUT OUT AND REPLACED WITH FILL COMPACTED AS DESCRIBED HEREIN.
- THE PROPOSED FILL SHOULD BE LIMITED TO SOILS CLASSIFIED IN ACCORDANCE WITH ASTM D-2487 AS GM, GC, SW, SM, SC, ML AND CL. SOIL CLASSIFIED AS PT, OH, OL, CH AND MH ARE NOT SATISFACTORY AS COMPACTED FILL.
- FILLS AND EMBANKMENTS SHALL BE CONSTRUCTED AT THE LACTATIONS AND TO THE LINES AND GRADES INDICATED ON CONSTRUCTION PLANS. THE SLOPE SHALL NOT EXCEED 2:FOOT HORIZONTAL TO 1 FOOT VERTICAL (3:FOOT HORIZONTAL TO 1 FOOT VERTICAL IN THE PUBLIC RIGHT OF WAY). THE COMPLETED FILL SHALL CORRESPOND TO THE SHAPE OF THE TYPICAL SECTIONS INDICATED ON THE CONSTRUCTION PLANS. MATERIAL REMOVED FROM THE EXCAVATION SHALL BE USED IN FORMING THE FILL. FILL MATERIAL SHALL BE REASONABLY FREE FROM ROOTS, OTHER ORGANIC MATERIAL, TRASH AND STONES HAVING MAXIMUM DIMENSIONS GREATER THAN 6 INCHES (4 INCHES IN TRENCHES FOR UTILITIES); NO FROZEN MATERIAL WILL BE PERMITTED IN THE FILL. STONES HAVING A MAXIMUM DIMENSION OF 4 INCHES WILL NOT BE PERMITTED IN THE UPPER SIX INCHES OF FILL OR EMBANKMENT OR UTILITY TRENCH. THE MATERIAL SHALL BE PLACED IN SUCCESSIVE HORIZONTAL LAYERS NOT MORE THAN 8 INCHES THICK, UNLESS OTHERWISE NOTED, IN LOOSE DEPTH FOR THE WIDTH OF THE CROSS-SECTION AND SHALL BE COMPACTED TO AT LEAST 97 PERCENT OF THE MAXIMUM LABORATORY DRY DENSITY ACCORDING TO STANDARD PROCTOR (ASTM D-698, AASHTO 1-99). MOISTURE SHALL BE WITHIN 3 PERCENT OF THE OPTIMUM MOISTURE CONTENT. THE TOP 12 INCHES OF THE PAVING, PARKING AND/OR ROADWAY SUB-GRADE SHALL BE COMPACTED TO 97 PERCENT OF THE MAXIMUM DRY DENSITY (STANDARD PROCTOR), EACH LIFT SHALL BE ROLLED WITH A VIBRATORY ROLLER, A SHEEPSFOOT ROLLER, OR A LOADED RUBBER Tired DUMP TRUCK, SCRAPER OR LOADER. IF THE SOIL IS TOO DRY, A WATER TRUCK WITH SPREADER BAR OR SPRAY HOSE SHALL BE USED TO BRING THE SOIL TO THE PROPER MOISTURE RANGE. THE WATER SHALL BE THOROUGHLY AND PROPERLY MIXED WITH THE SOIL PRIOR TO COMPACTION.
- STORM DRAIN PIPES SHALL BE PLACED ON FIRM BOTTOM AND HAND TAMPED TO SAFE UP THE PIPE. A CUSHION OF SOIL SHALL BE TAMPED ABOVE THE CROWN OF THE PIPE IN ACCORDANCE WITH THE PIPE MANUFACTURER'S RECOMMENDATIONS SO THAT THE HEAVIER COMPACTION EQUIPMENT CAN THEN BE USED TO BRING THE SOIL TO A DENSITY AS DESCRIBED ABOVE FOR FILL AREAS.
- IF SOILS INVESTIGATION REPORT IS PROVIDED, THEN FOLLOW THE RECOMMENDATIONS OF THE REPORT IF THEY EXCEED THE RECOMMENDATIONS OF THESE SPECIFICATIONS.

TOPSOIL:

- UNLESS OTHERWISE SPECIFIED, AREAS DESIGNATED FOR GRADING OPERATIONS THAT CONTAIN A BLANKET OF TOPSOIL SHALL BE STRIPPED AND PLACED IN CONVENIENT STOCKPILES FOR LATER USE AS A TOPSOIL BLANKET ON THE NEW GRADED AREAS SPECIFIED HEREIN, OR AS DESIGNATED. TOPSOIL SHALL BE STRIPPED FROM ALL AREAS DESIGNATED TO RECEIVE FILL. THE STRIPPING OF MATERIAL FOR TOPSOIL SHALL BE CAREFULLY DETERMINED AND ONLY THE QUANTITY REQUIRED SHALL BE STOCKPILED. MATERIAL STOCKPILED SHALL BE STORED IN A SATISFACTORY MANNER TO AFFORD PROPER DRAINAGE WHEN GRADING OPERATIONS PERMIT. INSTEAD OF STOCKPIILING, THE TOPSOIL SHALL BE HAULED AND SPREAD DIRECTLY ON THE AREAS DESIGNATED TO RECEIVE TOPSOIL.

ROCK EXCAVATION:

- IF ROCK IS ENCOUNTERED, CLEAR AWAY EARTH TO EXPOSE MATERIAL. NOTIFY OWNER AND RECEIVE WRITTEN INSTRUCTIONS PRIOR TO EXCAVATION. REMOVE ROCK TO A DEPTH OF 6 INCHES BELOW AND 8 INCHES ON EACH SIDE OF PIPES IN TRENCHES. A MEASUREMENT OF EXTENT OF ROCK TO BE REMOVED SHALL BE MADE. ROCK EXCAVATION SHALL BE PAID FOR IN ACCORDANCE WITH AGREEMENT WITH THE OWNER.

DEMOLITION NOTES

EXISTING STRUCTURES & FACILITIES:

- THE LOCATIONS OF ALL EXISTING FACILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE INFORMATION OF THE CONTRACTOR. THE ENGINEER / LANDSCAPE ARCHITECT ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR ON-SITE LOCATIONS OF EXISTING UTILITIES.
- THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, SUPERVISION AND EQUIPMENT REQUIRED FOR THE ORDERLY DEMOLITION AND REMOVAL OF EXISTING STRUCTURES, PAVEMENTS, AND UTILITIES AS SHOWN ON THE DRAWINGS AND DESCRIBED HEREIN.
- THE CONTRACTOR IS REQUIRED TO FAMILIARIZE HIM/HERSELF WITH THE STRUCTURES TO BE DEMOLISHED. A BRIEF DESCRIPTION OF THE STRUCTURES PROPOSED TO BE INSTALLED AND DEMOLISHED ARE INCLUDED FOR THE CONTRACTOR'S CONVENIENCE ONLY.
- THE FOLLOWING LIST OF STRUCTURES REQUIRING DEMOLITION IS INCLUDED FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE DRAWINGS INDICATE THE SCOPE OF THE DEMOLITION WHERE DEMOLITION IS REQUIRED (SEE CORRESPONDING PLANS):
 - DEMOLITION AND REMOVAL OF EXISTING ON-SITE ASPHALT, CONCRETE, PAVING, AND CURBING TO LIMITS OF DISTURBANCE/DEMOLITION AS SHOWN ON THE CORRESPONDING PLANS. CONTRACTOR TO VERIFY AND COORDINATE ANY DISCREPANCIES AND/OR CONCERNS WITH ENGINEER/LANDSCAPE ARCHITECT ACCORDINGLY.
- ALL ON-SITE UNDERGROUND STRUCTURES AND PIPING MUST BE COMPLETELY REMOVED AND OVER-EXCAVATED BY A MINIMUM OF 12" BENEATH THE STRUCTURES. CONTRACTOR SHALL USE APPROVED FILLING MATERIAL FOR FILLING THESE AREAS. FILL SHALL BE CLEAN WITH LESS THAN 50% PASSING THE #200 SIEVE, PLASTICITY INDEX LESS THAN 10, WITH MAXIMUM PARTICLE SIZE OF 1.25 INCHES, AND SHALL BE PLACED IN LOOSE LIFTS NOT EXCEEDING 8 INCHES IN THICKNESS AND COMPACTED TO AT LEAST 98% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (AASHTO 199).
- ALL EXISTING STRUCTURES, PAVEMENTS, SLABS, FOUNDATIONS, STEPS AND OTHER EXISTING FEATURES INDICATED ON THE DRAWINGS TO BE REMOVED SHALL BE DEMOLISHED AND REMOVED BY THE CONTRACTOR. REMOVE NO STRUCTURE SUBSTANTIALLY AS A WHOLE. DEMOLISH COMPLETELY ON THE PREMISES.
- ALL EXISTING SEWERS, PIPING, UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. CONTRACTOR SHALL GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH THE WORK.
- CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION FOR PERSON AND PROPERTY AT ALL TIMES. HE OR SHE SHALL EXECUTE THE WORK IN A MANNER THAT AVOIDS HAZARDS TO PERSONS AND PROPERTY AND THAT PREVENTS INTERFERENCE WITH THE USE AND ACCESS TO ADJACENT PROPERTIES, BUILDINGS, AND ADJACENT STREETS. STREETS AND SIDEWALKS SHALL NOT BE BLOCKED BY DEBRIS AND EQUIPMENT.
- CONTRACTOR MUST STOP OPERATION AND NOTIFY THE OWNER FOR PROPER DIRECTION IF ANY ENVIRONMENTAL OR HEALTH RELATED CONTAMINATE IS ENCOUNTERED DURING THE DEMOLITION AND/OR EXCAVATION PROCESS.

DISPOSAL:

- REMOVE AND LEGALLY DISPOSE OF ALL OTHER RUBBISH, RUBBLE, AND DEBRIS. ALL REFUSE AND MISCELLANEOUS ITEMS TO BE REMOVED, THAT ARE NOT TO BE STOCKPILED FOR LATER USE ON THE PROJECT OR DELIVERED TO THE OWNER, SHALL BE LEGALLY DIPOSED OF OFF-SITE BY THE CONTRACTOR IN ACCORDANCE WITH ANY AND ALL APPLICABLE LAWS, STANDARDS, AND REGULATIONS SET FORTH BY LOCAL, STATE, AND FEDERAL OFFICIALS THAT GOVERN THE DISPOSAL OF WASTE AND DEBRIS.

PAVEMENT REMOVAL:

- WHERE EXISTING PAVEMENT IS TO BE REMOVED, CONTRACTOR SHALL SAW-CUT THE SURFACING LEAVING A UNIFORM AND STRAIGHT EDGE WITH THE MINIMAL DISTURBANCE POSSIBLE TO THE REMAINING ADJACENT SURFACING. IF CONSTRUCTION RESULTS IN RAVELING OF THE SAW-CUT SURFACE, RECUT BACK FROM THE RAVELED EDGE PRIOR TO RESTORATION.
- WHERE EXISTING PAVEMENT, CURB, CURB AND GUTTER, SIDEWALK, DRIVEWAY OR VALLEY GUTTER IS TO BE REMOVED FOR THE PURPOSE OF CONSTRUCTION OR REMOVING BOX CULVERTS, PIPE, INLETS, MANHOLES, APPURTENANCES, FACILITIES OR STRUCTURES, SAID PAVEMENT, ETC., THE SAID OR PROPOSED STRUCTURE SHALL BE REPLACED AND RESTORED IN EQUAL OR BETTER CONDITION THAN THE ORIGINAL. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY LABOR, MATERIALS, EQUIPMENT, TOOLS, SUPPLIES, AND ANY OTHER NECESSARY EQUIPMENT AS REQUIRED BY PROJECT AND SITE REQUIREMENTS.

ACCESS:

- CONTINUOUS ACCESS SHALL BE MAINTAINED FOR THE SURROUNDING PROPERTIES AT ALL TIMES DURING THE DEMOLITION PROCESS OF THE EXISTING FACILITIES AND SITE.

PERMITTING:

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY REQUIRED PERMITTING FOR DEMOLITION FROM THE RESPONSIBLE AUTHORITIES AND REGULATIONS AND FULLY ACKNOWLEDGE AND COMPLY WITH ALL REQUIREMENTS PRIOR TO COMMENCING OF DEMOTION WORK.
- IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE THE EXTENT OF DEMOLITION REQUIRED IN ORDER TO PERFORM THE CONTRACT WORK FOR THIS PROJECT. THE CONTRACTOR SHALL CONDUCT SITE VISITS AND SHALL EXAMINE ALL OF THE INFORMATION WITHIN THESE DOCUMENTS AND ALL DISCREPANCIES AND/OR OMISSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE LEAD ENGINEER/ARCHITECT PRIOR TO BID SUBMITTAL.
- CONTRACTOR SHALL LIMIT ALL DEMOLITION ACTIVITY TO THAT AREA DELINEATED IN THE DRAWING AND APPROVED BY OFFICIALS.
- ALL OTHER EXISTING UTILITIES INCLUDING BUT NOT LIMITED TO STORM DRAINAGE, GAS, ELECTRIC, TELEPHONE, AND WATER & SEWER SHALL BE PRESERVED AND PROTECTED AT ALL TIMES AS NEEDED AND AS REQUIRED.

STAKING AND SURVEYING NOTES

STAKING:

- THE CONTRACTOR SHALL PERFORM ALL CONSTRUCTION STAKING AND CONSTRUCTION ACTIVITIES BASED ON THE LATEST APPROVED DESIGN PLANS AND/OR DESIGN FILE(S) AS PROVIDED AND AS WARRANTED BY CLIENT AND PROJECT NEEDS.
- PRIOR TO COMMENCING CONSTRUCTION STAKING OR CONSTRUCTION ACTIVITIES, THE CONTRACTOR AND/OR STAKING SURVEYOR SHALL CONFIRM WITH THE PROJECT LEAD ENGINEER/ARCHITECT, WHO'S RESPONSIBLE FOR THIS PROJECT, THAT THE LATEST PLANS AND/OR DESIGN FILE(S) ARE BEING UTILIZED.
- THE ENGINEER/LANDSCAPE ARCHITECT IS NOT RESPONSIBLE FOR OWNERS, CONTRACTORS OR SURVEYORS STAKING OR PERFORMING CONSTRUCTION ACTIVITIES BASED ON OUT-OF-DATE DESIGN PLANS AND/OR DESIGN FILES.
- CONSTRUCTION STAKING SHALL ADHERE TO THE HORIZONTAL AND VERTICAL DATUM LISTED IN THIS CONSTRUCTION SET AND AS PROVIDED IN THE CORRESPONDING FILES, NOTES, AND/OR DRAWINGS.

TOLERANCES & DISCREPANCIES:

- IF, DURING CONSTRUCTION STAKING OR CONSTRUCTION ACTIVITIES, SURVEY DISCREPANCIES ARE ENCOUNTERED WITH REGARD TO THE DESIGN PLANS OR DESIGN FILE, WORK SHOULD CEASE AND THE LEAD ENGINEER/LANDSCAPE ARCHITECT SHOULD BE NOTIFIED IMMEDIATELY TO RESOLVE THE ISSUE OR ISSUES. THE ENGINEER / LANDSCAPE ARCHITECT CAN NOT BE HELD RESPONSIBLE OR LIABLE FOR ISSUES THAT THEY HAVE NOT RECEIVED NOTIFICATION.
- THE CONSTRUCTION TOLERANCES SHOWN IN THE CORRESPONDING DRAWINGS, NOTES, AND/OR FILES, IN GENERAL, REPRESENT INDUSTRY STANDARDS. HOWEVER, EXCEPTIONS CAN BE MADE IF IT IS DETERMINED THAT CERTAIN DEVIATED CONSTRUCTION ACTIVITIES DO NOT ADVERSELY AFFECT THE DESIGN REQUIREMENTS OR FUNCTIONALITY. THE LEAD ENGINEER/LANDSCAPE ARCHITECT WILL EVALUATE CONSTRUCTION ACTIVITIES THAT DEVIATE FROM THE DESIGN PLANS ON A CASE-BY-CASE BASIS. IF IT IS DETERMINED THAT THE CERTAIN DEVIATED CONSTRUCTION ACTIVITIES DO ADVERSELY AFFECT THE DESIGN REQUIREMENTS, FUNCTIONALITY, AND INTENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING OR REPAIRING ALL ITEMS TO THE PLANS AND SPECIFICATIONS AS DETERMINED AND REQUIRED BY DESIGN PROFESSIONAL, AT THE CONTRACTOR'S EXPENSE.

CIVIL ENGINEERING DESIGN TOLERANCES FOR PROJECT:

GENERAL GRADING:	±0.10 FEET	RETAINING WALLS:	±0.05 FEET
ALL PIPE/CONDUITS:	±0.05 FEET	SITE FEATURES (SPOT ELEV., ETC.):	±0.05 FEET
DRAINAGE STRUCTURES:	±0.05 FEET	UTILITY ELEVATIONS:	±0.10 FEET
SANITARY SEWER STRUCTURES:	±0.05 FEET	EROSION CONTROL BMPs:	±0.05 FEET
STORMWATER POND FEATURES:	±0.05 FEET		

AS-BUILT & SPECIFICATIONS:

- THE ENGINEER/LANDSCAPE ARCHITECT SHOULD BE PROVIDED WITH AN AS-BUILT SURVEY OF THE PROJECT FOR REVIEW AND APPROVAL AFTER THE PROJECT IS COMPLETE. CONTRACTOR IS RESPONSIBLE FOR COORDINATING EFFORTS WITH DESIGN PROFESSIONAL.
- SEE THE PROJECT SPECIFICATIONS FOR ADDITIONAL SITE SPECIFIC REQUIREMENTS REGARDING CONSTRUCTION, MATERIALS, TESTING, AND CERTIFICATIONS.

PROJECT GEOGRAPHICAL INFORMATION

PROJECT PROJECTION & DATUM:

HORIZONTAL DATUM: NAD83 GEORGIA STATE PLANES, WEST ZONE, US FOOT
 VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

BOUNDARY SURVEY:

SURVEYOR NAME: HENRY T. MCBRAYER, GA RLS #2570
 DATE OF SURVEY: 02.10.23
 TRACT OR PARCEL: *
 HORIZONTAL DATUM: NAD83 GEORGIA STATE PLANES, WEST ZONE, US FOOT
 VERTICAL DATUM: NORTH AMERICA VERTICAL DATUM OF 1988 (NAVD88)

TOPOGRAPHIC SURVEY:

SURVEYOR NAME: HENRY T. MCBRAYER, GA RLS #2570
 DATE OF SURVEY: 02.10.23
 TRACT OR PARCEL: *
 HORIZONTAL DATUM: NAD83 GEORGIA STATE PLANES, WEST ZONE, US FOOT
 VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

GEOGRAPHICAL INFORMATION SYSTEMS (GIS) DATA UTILIZED:

TOPOGRAPHIC DATA: FIELD RUN SURVEY
 PARCEL DATA: FIELD RUN SURVEY
 ADDITIONAL DATA: HEARD COUNTY GIS DATA

GEORGIA COMP. R. & REGS. R. 180-6-.09:

THE TOPOGRAPHIC AND ELEVATION DATA SHOWN HEREON WAS OBTAINED FROM FIELD RUN SURVEY AND IS NOT CERTIFIED AS CORRECT BY THIS ENGINEER. USERS OF THIS DATA DO SO AT THEIR OWN RISK.

REVISION BLOCK	ISSUE	REVISION DATE & DESCRIPTION
1	...	01/16/24 - CLIENT REVIEW
2	...	
3	...	
4	...	
5	...	
6	...	
7	...	
8	...	



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SITE DEVELOPMENT PLANS
 FOR
FIRE DEPARTMENT 5
365 JOE STEPHENS ROAD - FRANKLIN, GA 30217

SHEET TITLE:
GENERAL NOTES

PROJECT NAME:
HEARD COUNTY

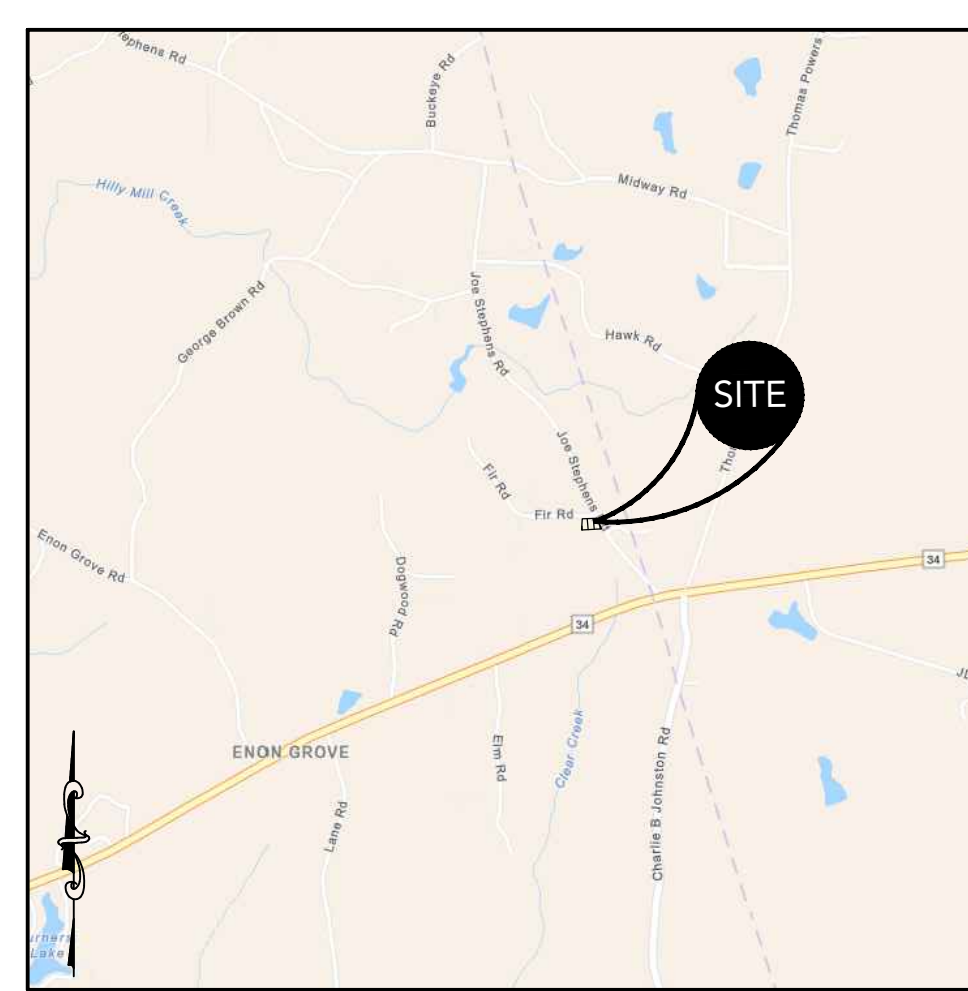
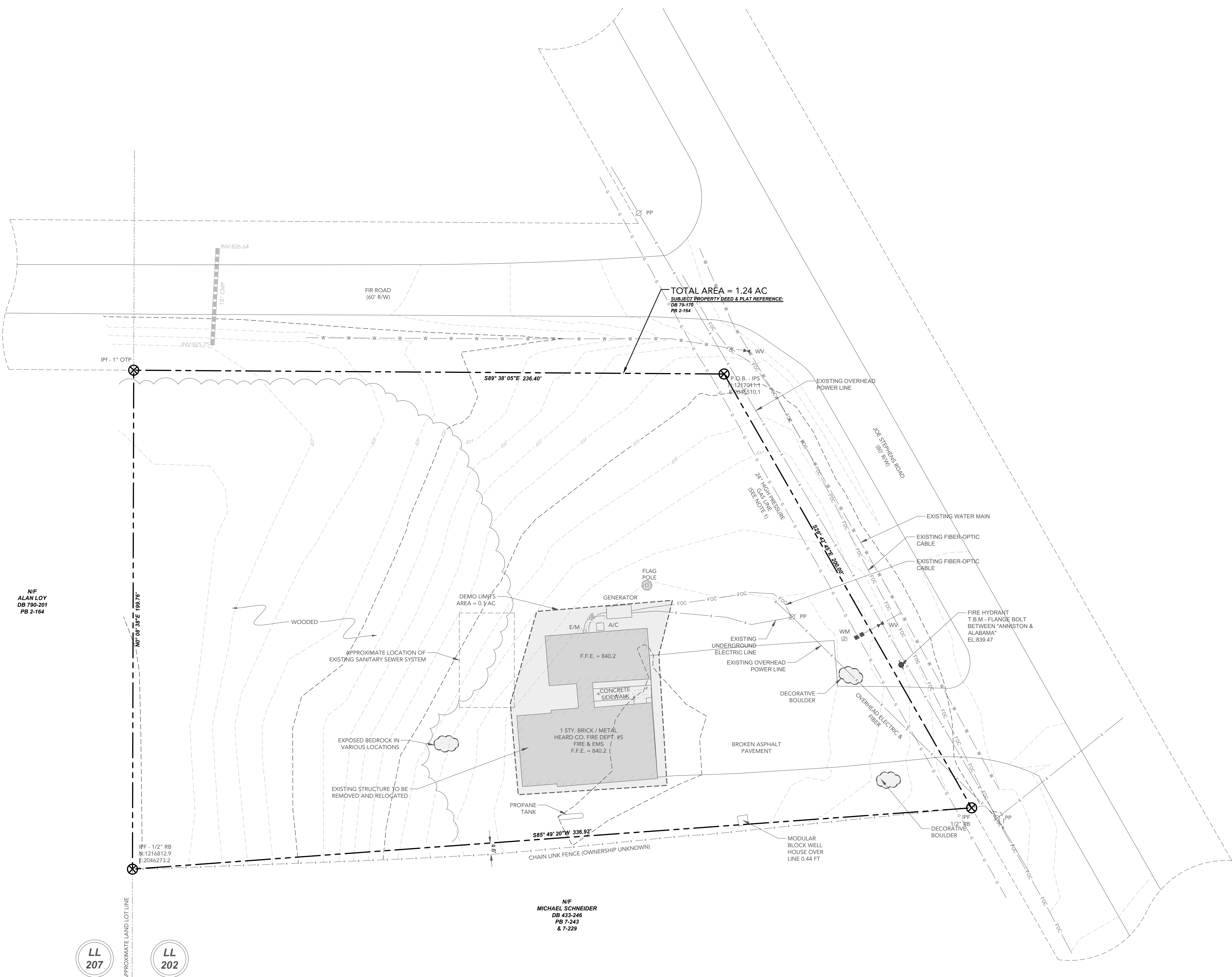
SHEET NUMBER:
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PROJECT NUMBER:
23001HCG

DATE:
01.16.24

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LOCATION MAP
SCALE: N.T.S.

PROJECT INFORMATION	
DRAWING SET PREPARED BY: CARTER ENGINEERING CONSULTANTS, INC. 1010 COMMERCE DRIVE BOGART, GA 30622 CONTACT: BRIAN KIMSEY, P.E. BRIAN@CARTERENGINEERING.COM	OWNER/DEVELOPER: HEARD COUNTY BOARD OF COMMISSIONERS 201 PARK AVENUE FRANKLIN, GA 30217 CONTACT: FELICIA ADAMS 706-675-3821 FELICIAADAMS@HEARDCOUNTYGA.COM

SITE INFORMATION	
JURISDICTION	HEARD COUNTY
PROPERTY LOCATION	365 JOE STEPHENS ROAD FRANKLIN, GA 30217
PARCEL NUMBER	0052 0069
CURRENT ZONING	GC (GENERAL COMMERCIAL DISTRICT)
PROPOSED ZONING	GC (GENERAL COMMERCIAL DISTRICT)
OVERLAY DISTRICT	NONE
EXISTING USE	FIRE STATION
PROPOSED USE	FIRE STATION
BUFFERS REQUIRED	*20' LANDSCAPE BUFFER (NORTH)
REQUIRED BUILDING SETBACKS	FRONT: 60-FEET SIDE: 15-FEET REAR: 15-FEET
MAXIMUM LOT COVERAGE	*10%
MINIMUM LANDSCAPE	*10%
MAXIMUM BUILDING HEIGHT	40-FEET
SANITARY SEWER SERVICE	ON SITE SANITARY
WATER SERVICE	HEARD COUNTY
FEMA FLOOD INSURANCE RATE MAP NO.	13149C0180C
FEMA FIRM DATE	08/19/2010
FEMA SFHA ZONE	ZONE X

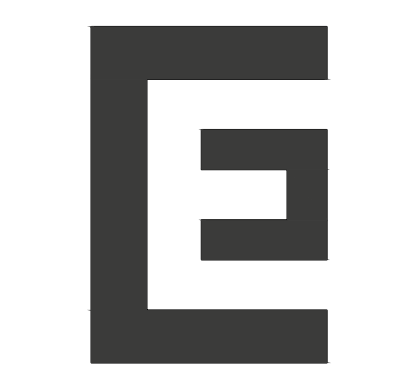
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N/F
ALAN LOY
DB 790-201
PB 2-164

N/F
MICHAEL SCHNEIDER
DB 433-246
PB 7-243
& 7-229

LL 207
LL 202

REVISION BLOCK	ISSUE	REVISION DATE & DESCRIPTION
1	1	01.16.24 - CLIENT REVIEW
2	2	
3	3	
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8	8	



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BOGART, GA 30622
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F: 770.725.1204
www.carterengineering.com

SITE DEVELOPMENT PLANS
FOR
FIRE DEPARTMENT 5
365 JOE STEPHENS ROAD - FRANKLIN, GA 30217

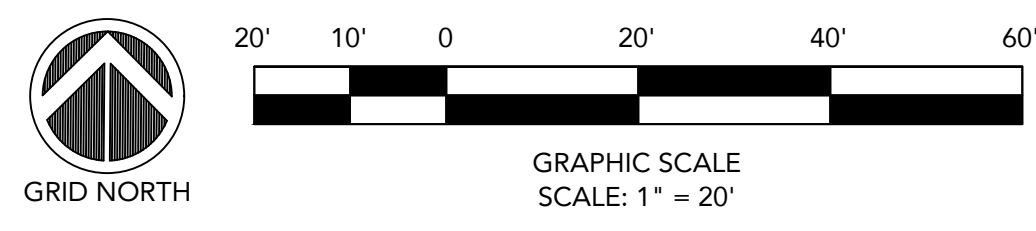
SHEET TITLE:
EXISTING SITE /
DEMO PLAN

PROJECT NAME:
HEARD COUNTY

SHEET NUMBER:
C 3.0

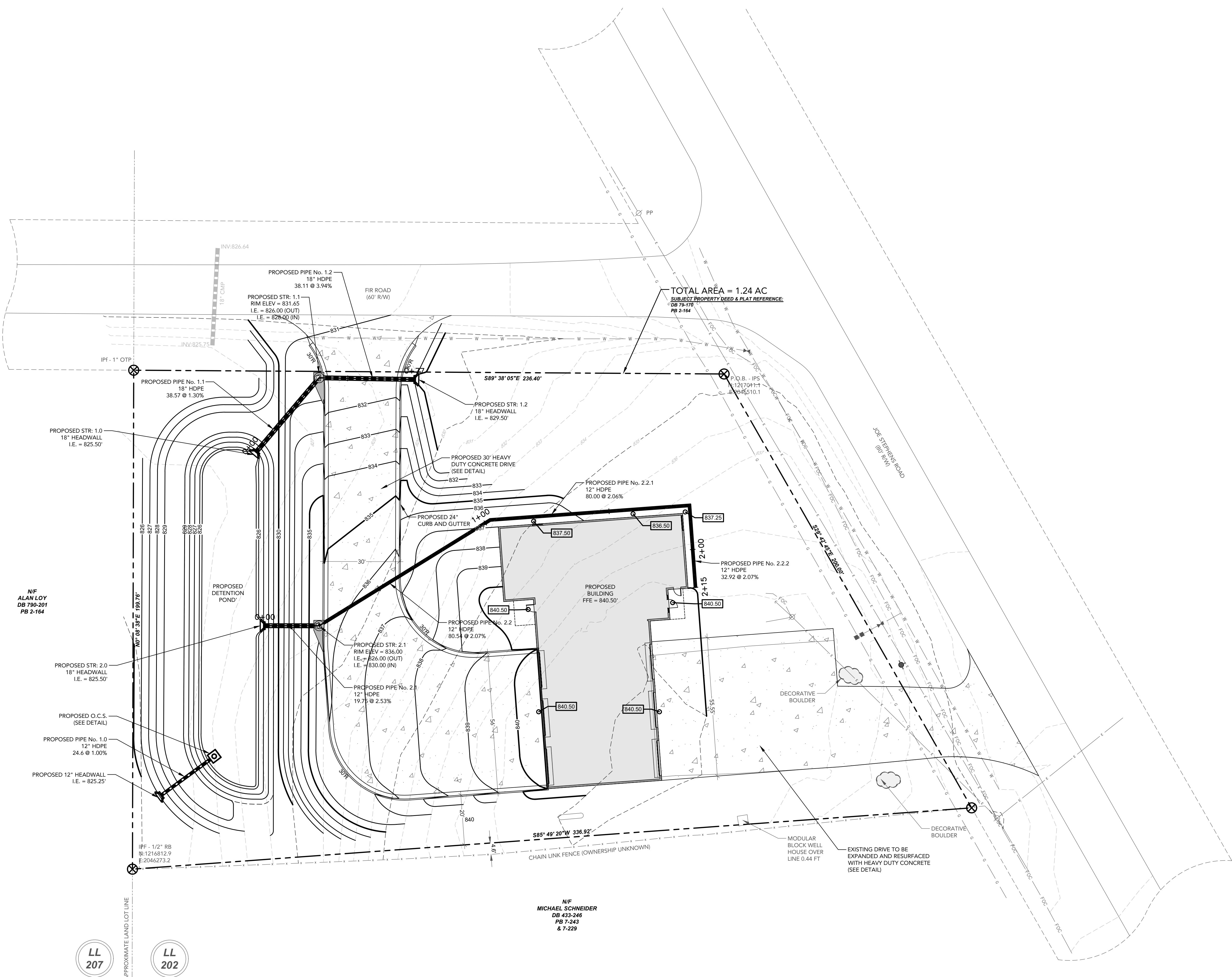
PROJECT NUMBER:
23001HCG

DATE:
01.16.24



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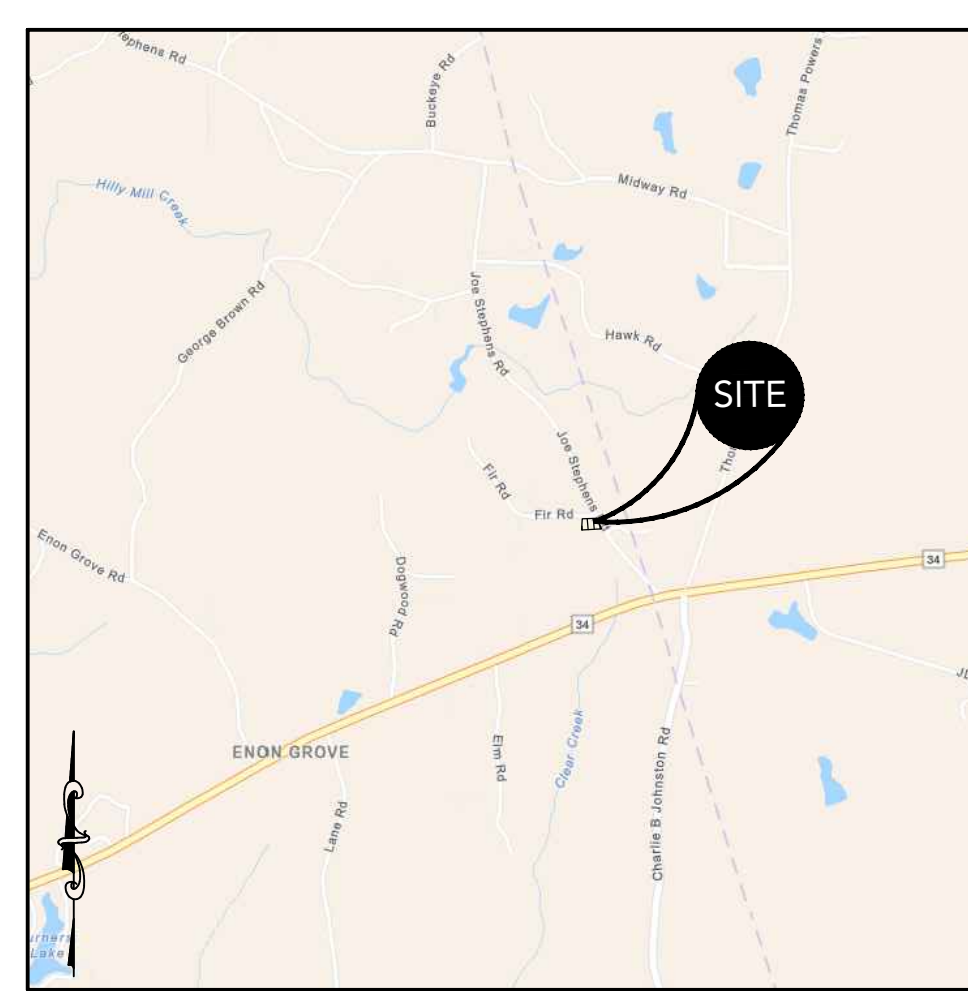
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TOTAL AREA = 1.24 AC
SUBJECT PROPERTY DEED & PLAT REFERENCE:
DB 78-170
PB 2-164

N/E
MICHAEL SCHNEIDER
DB 433-246
PB 7-243
& 7-229

LL 207
LL 202



LOCATION MAP
SCALE: N.T.S.

PROJECT INFORMATION	
DRAWING SET PREPARED BY: CARTER ENGINEERING CONSULTANTS, INC. 1010 COMMERCE DRIVE BOGART, GA 30622 CONTACT: BRIAN KIMSEY, P.E. BRIAN@CARTERENGINEERING.COM	OWNER/DEVELOPER: HEARD COUNTY BOARD OF COMMISSIONERS 201 PARK AVENUE FRANKLIN, GA 30217 CONTACT: FELICIA ADAMS 706-675-3821 FELICIAADAMS@HEARDCOUNTYGA.COM
SITE INFORMATION	
JURISDICTION	HEARD COUNTY
PROPERTY LOCATION	365 JOE STEPHENS ROAD FRANKLIN, GA 30217
PARCEL NUMBER	0052 0069
CURRENT ZONING	GC (GENERAL COMMERCIAL DISTRICT)
PROPOSED ZONING	GC (GENERAL COMMERCIAL DISTRICT)
OVERLAY DISTRICT	NONE
EXISTING USE	FIRE STATION
PROPOSED USE	FIRE STATION
BUFFERS REQUIRED	*20' LANDSCAPE BUFFER (NORTH)
REQUIRED BUILDING SETBACKS	FRONT: 60-FEET SIDE: 15-FEET REAR: 15-FEET
MAXIMUM LOT COVERAGE	*10%
MINIMUM LANDSCAPE	*10%
MAXIMUM BUILDING HEIGHT	40-FEET
SANITARY SEWER SERVICE	ON SITE SANITARY
WATER SERVICE	HEARD COUNTY
FEMA FLOOD INSURANCE RATE MAP NO.	13149C0180C
FEMA FIRM DATE	08/19/2010
FEMA SFHA ZONE	ZONE X

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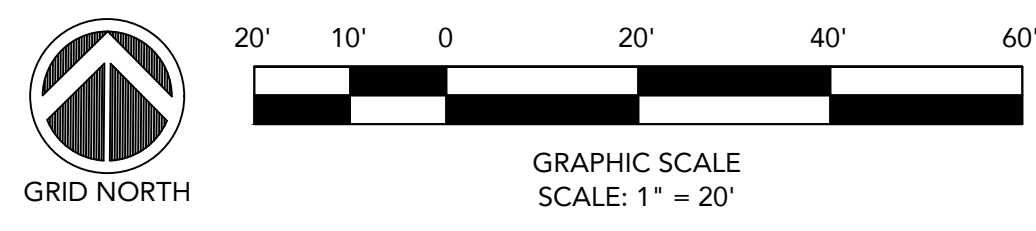
REVISION BLOCK	ISSUE	REVISION DATE & DESCRIPTION
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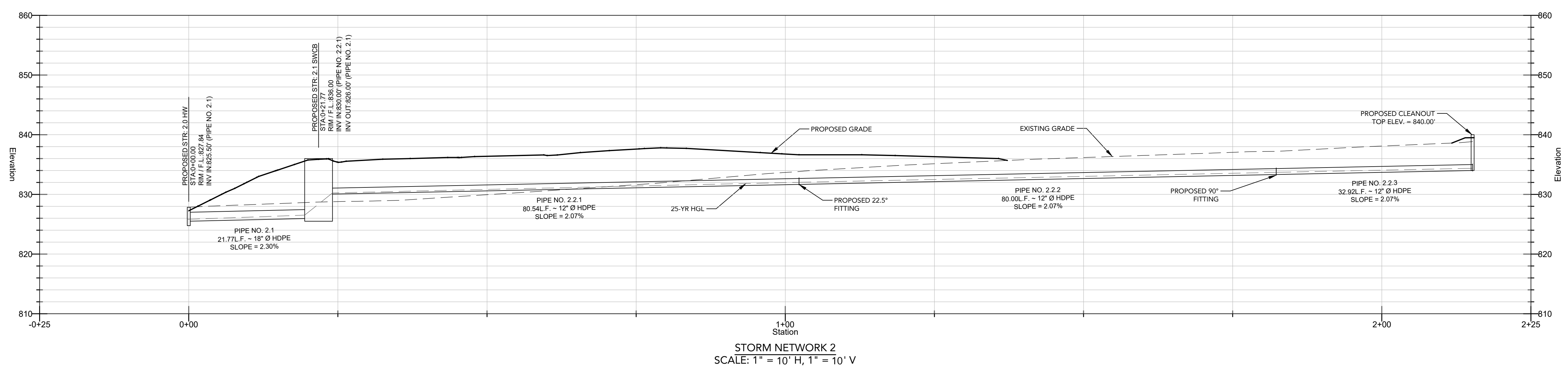
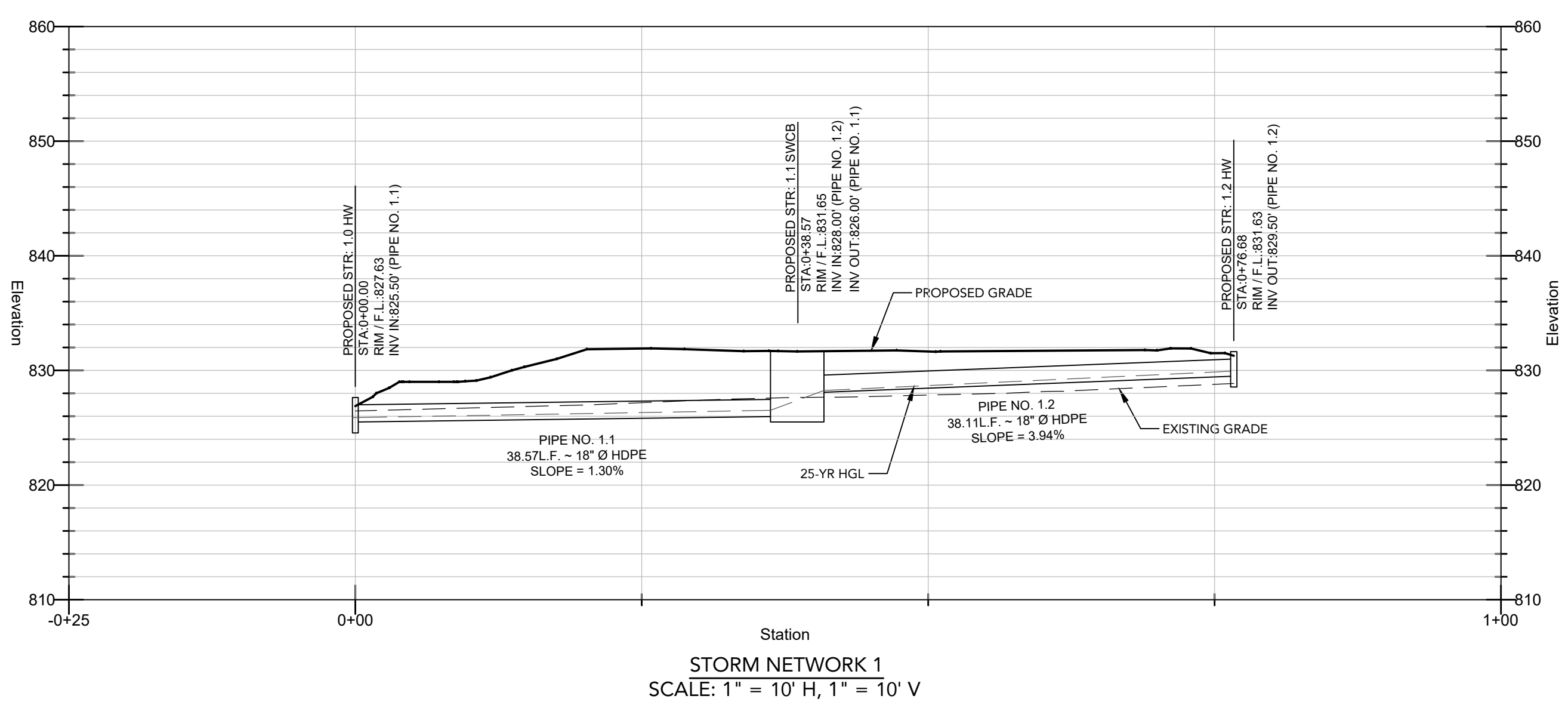
SITE DEVELOPMENT PLANS
FOR
FIRE DEPARTMENT 5
365 JOE STEPHENS ROAD - FRANKLIN, GA 30217

SHEET TITLE: GRADING PLAN
PROJECT NAME: HEARD COUNTY
SHEET NUMBER: C 5.0
PROJECT NUMBER: 23001HCG
DATE: 01.16.24



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Stormwater Summary Table - 25-Year Design Frequency

Line ID	Line Size	Line Length	Invert Dn	Invert Up	Line Slope	HGL Dn	HGL Up	Inlet ID	Incr Q (CIA)	Flow Rate	Velocity (Downstream)	Drainage Area	Runoff Coefficient	Inlet Time of Concentration	Pipe Manning's n
	(in)	(ft)	(ft)	(ft)	(%)	(ft)	(ft)		(cfs)	(cfs)	(ft/s)	(ac)	(C)	(min)	
Pipe No. 1.1	18	38.57	825.50	826.00	1.30	825.89	826.52	1.1	0.68	1.91	5.24	0.09	0.81	5.00	0.012
Pipe No. 1.2	18	38.11	828.00	829.50	3.94	828.25	829.93	1.2	1.34	1.34	7.00	0.48	0.30	5.00	0.012
Pipe No. 2.1	18	21.77	825.50	826.00	2.30	825.83	826.52	2.1	1.47	1.88	6.39	0.18	0.88	5.00	0.012
Pipe No. 2.2	12	80.54	830.00	831.67	2.07	830.24	832.02	22.5"	0.00	0.71	4.85	0.00	0.00	0.00	0.012
Pipe No. 2.2.1	12	80.00	831.67	833.32	2.06	832.02	833.69	90°	0.00	0.77	3.12	0.00	0.00	0.00	0.012
Pipe No. 2.2.2	12	32.92	833.32	834.00	2.07	833.69	834.37	CO	0.80	0.80	3.06	0.09	0.96	5.00	0.012

STORMSEWER STRUCTURE TABLE
STORM NETWORK

STRUCTURE NAME:	DETAILS:	STRUCTURE HEIGHT:	STRUCTURE DESCRIPTION:
C.O.	RIM / F.L. = 0.97' INV OUT = 834.00' (PIPE NO. 2.2.3)	6.00'	STRUCTURE SIZE = 6" STRUCTURE TYPE: 6" C.O.
1.0	RIM / F.L. = 827.63' INV IN = 825.50' (PIPE NO. 1.1)	4.14'	STRUCTURE SIZE = 18" STRUCTURE TYPE: HW
1.1	RIM / F.L. = 831.65' INV IN = 828.00' (PIPE NO. 1.2) INV OUT = 826.00' (PIPE NO. 1.1)	5.65'	STRUCTURE SIZE = 48" STRUCTURE TYPE: SWCB
1.2	RIM / F.L. = 831.63' INV OUT = 829.50' (PIPE NO. 1.2)	4.63'	STRUCTURE SIZE = 18" STRUCTURE TYPE: HW
2.0	RIM / F.L. = 827.84' INV IN = 825.50' (PIPE NO. 2.1)	4.50'	STRUCTURE SIZE = 18" STRUCTURE TYPE: HW
2.1	RIM / F.L. = 836.00' INV IN = 830.00' (PIPE NO. 2.2.1) INV OUT = 826.00' (PIPE NO. 2.1)	10.00'	STRUCTURE SIZE = 48" STRUCTURE TYPE: SWCB

STORMSEWER PIPE TABLE
STORM NETWORK

PIPE NAME:	SIZE	LENGTH	I.E. (DOWN)	I.E. (UP)	SLOPE	MATERIAL
1.2	18" Ø	38.11'	828.00' (STR: 1.1)	829.50' (STR: 1.2)	3.94%	HDPE
1.1	18" Ø	38.57'	825.50' (STR: 1.0)	826.00' (STR: 1.1)	1.30%	HDPE
2.2.3	12" Ø	32.92'	833.32' (STR: 90 DEG)	834.00' (STR: C.O.)	2.07%	HDPE
2.2.2	12" Ø	80.00'	831.67' (STR: 22.5 DEG)	833.32' (STR: 90 DEG)	2.07%	HDPE
2.2.1	12" Ø	80.54'	830.00' (STR: 2.1)	831.67' (STR: 22.5 DEG)	2.07%	HDPE
2.1	18" Ø	21.77'	825.50' (STR: 2.0)	826.00' (STR: 2.1)	2.30%	HDPE

REVISION BLOCK

ISSUE	REVISION DATE & DESCRIPTION
1	01.16.24 - CLIENT REVIEW
2	
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SITE DEVELOPMENT PLANS
FOR
FIRE DEPARTMENT 5
365 JOE STEPHENS ROAD - FRANKLIN, GA 30217

SHEET TITLE:
STORM PROFILES

PROJECT NAME:

HEARD COUNTY

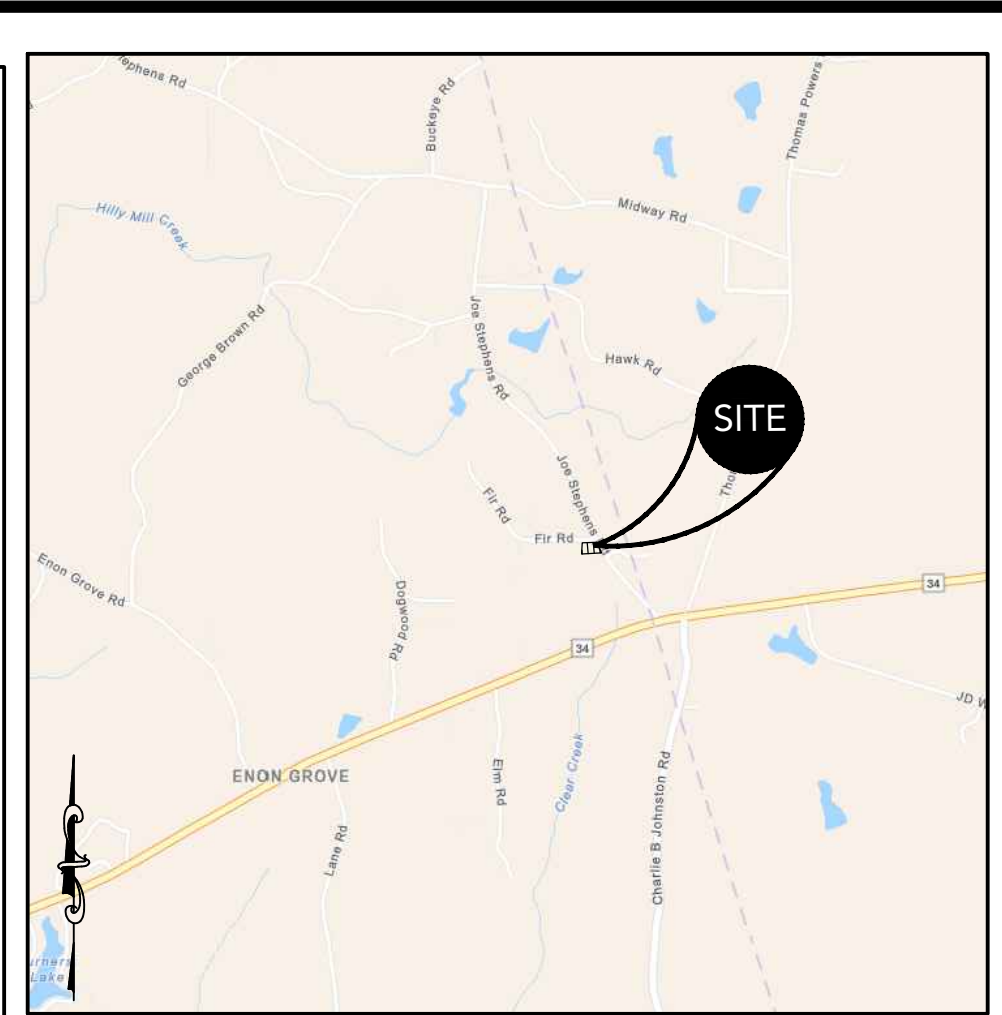
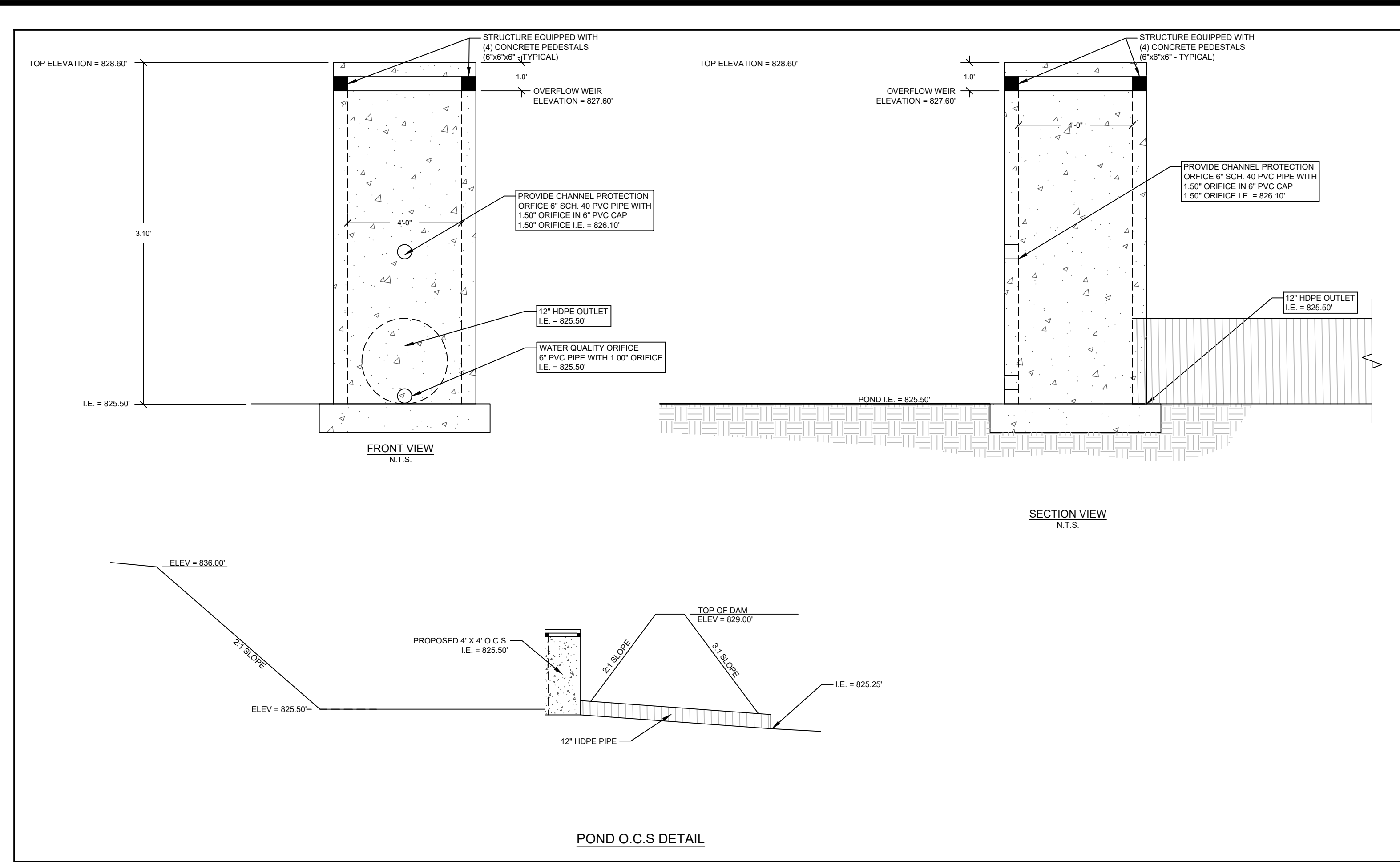
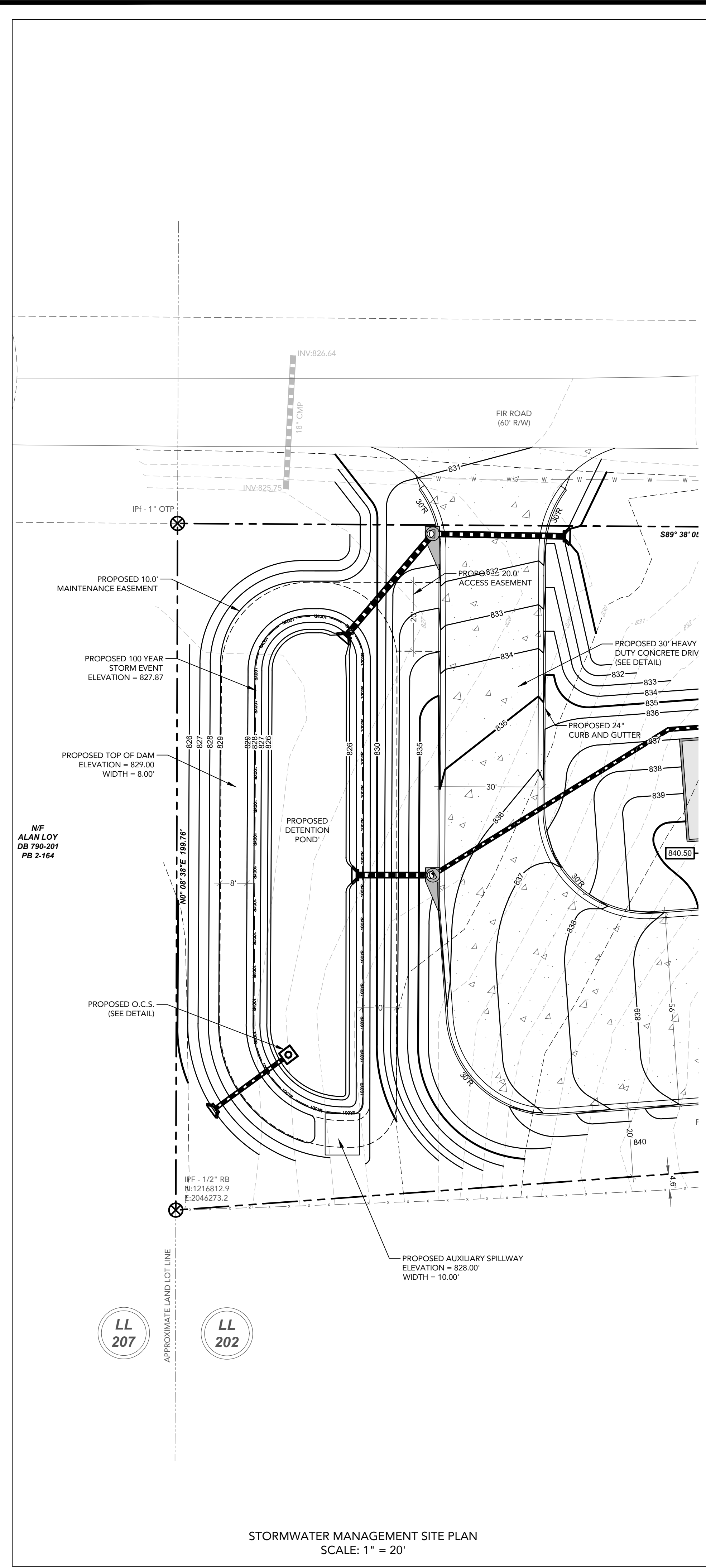
SHEET NUMBER:
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PROJECT NUMBER:
23001HCG

DATE:
01.16.24

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PROJECT INFORMATION

DRAWING SET PREPARED BY: CARTER ENGINEERING CONSULTANTS, INC. 1010 COMMERCE DRIVE BOGART, GA 30622 CONTACT: BRIAN KIMSEY, P.E. PHONE: 770.725.1200 BRIAN@CARTERENGINEERING.COM	OWNER/DEVELOPER: HEARD COUNTY BOARD OF COMMISSIONERS 201 PARK AVENUE FRANKLIN, GA 30217 CONTACT: FELICIA ADAMS 706-675-3821 FELICIAADAMS@HEARDCOUNTYGA.COM
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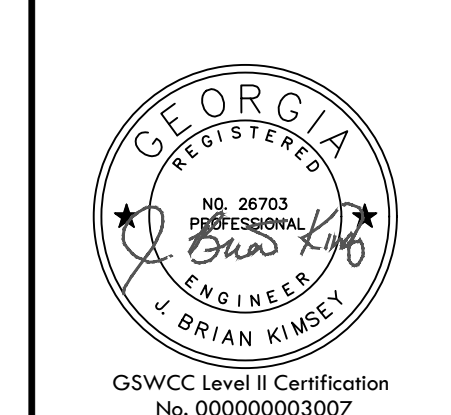
SITE INFORMATION

JURISDICTION	HEARD COUNTY
PROPERTY LOCATION	365 JOE STEPHENS ROAD FRANKLIN, GA 30217
PARCEL NUMBER	0052 0069
CURRENT ZONING	GC (GENERAL COMMERCIAL DISTRICT)
PROPOSED ZONING	GC (GENERAL COMMERCIAL DISTRICT)
OVERLAY DISTRICT	NONE
EXISTING USE	FIRE STATION
PROPOSED USE	FIRE STATION
BUFFERS REQUIRED	*20' LANDSCAPE BUFFER (NORTH)
REQUIRED BUILDING SETBACKS	FRONT: 60- FEET SIDE: 15- FEET REAR: 15- FEET
MAXIMUM LOT COVERAGE	*10%
MINIMUM LANDSCAPE	*10%
MAXIMUM BUILDING HEIGHT	40- FEET
SANITARY SEWER SERVICE	ON SITE SANITARY
WATER SERVICE	HEARD COUNTY
FEMA FLOOD INSURANCE RATE MAP NO.	13149C0180C
FEMA FIRM DATE	08/19/2010
FEMA SFHA ZONE	ZONE X

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REVISION BLOCK

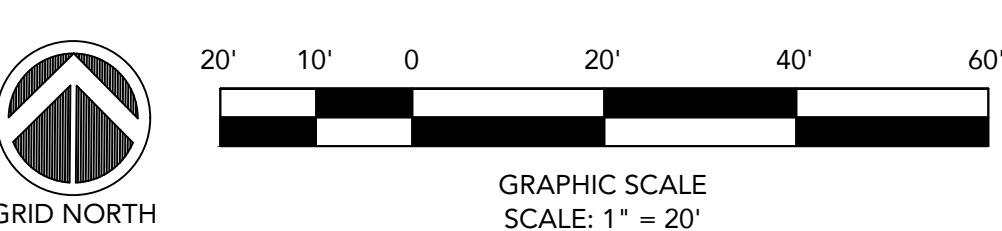
ISSUE	REVISION DATE & DESCRIPTION
1	01.16.24 - CLIENT REVIEW
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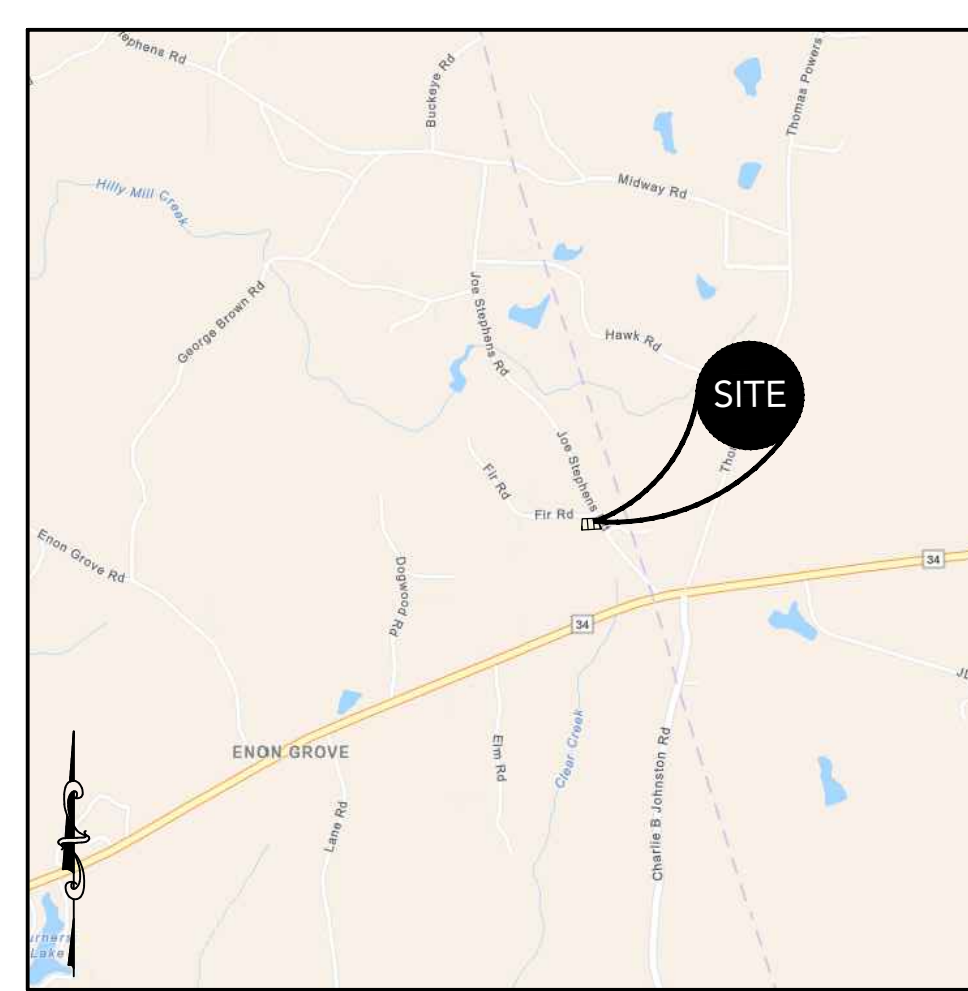
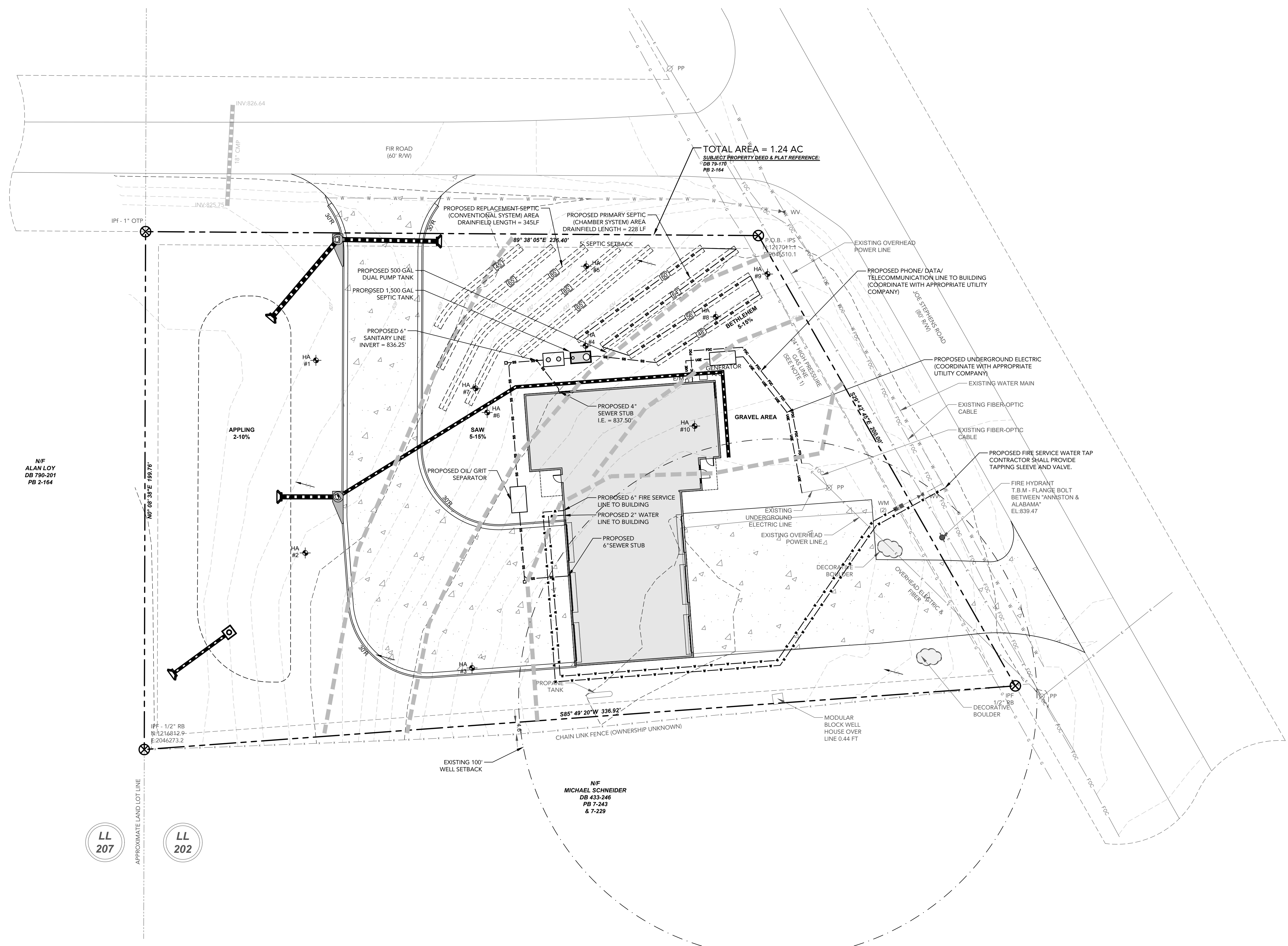
SITE DEVELOPMENT PLANS
FOR
FIRE DEPARTMENT 5
365 JOE STEPHENS ROAD - FRANKLIN, GA 30217

SHEET TITLE: STORMWATER MANAGEMENT PLAN
PROJECT NAME: HEARD COUNTY
SHEET NUMBER: C 6.0
PROJECT NUMBER: 23001HCG
DATE: 01.16.24



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LOCATION MAP
SCALE: N.T.S.

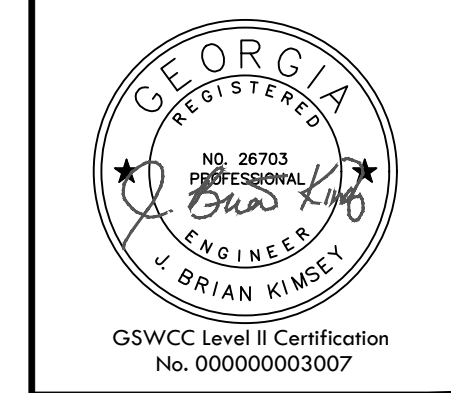
PROJECT INFORMATION	
DRAWING SET PREPARED BY: CARTER ENGINEERING CONSULTANTS, INC. 1010 COMMERCE DRIVE BOGART, GA 30622 CONTACT: BRIAN KIMSEY, P.E. BRIAN@CARTERENGINEERING.COM	OWNER/DEVELOPER: HEARD COUNTY BOARD OF COMMISSIONERS 201 PARK AVENUE FRANKLIN, GA 30217 CONTACT: FELICIA ADAMS 706-675-3821 FELICIAADAMS@HEARDCOUNTYGA.COM

SITE INFORMATION	
JURISDICTION	HEARD COUNTY
PROPERTY LOCATION	365 JOE STEPHENS ROAD FRANKLIN, GA 30217
PARCEL NUMBER	0052 0069
CURRENT ZONING	GC (GENERAL COMMERCIAL DISTRICT)
PROPOSED ZONING	GC (GENERAL COMMERCIAL DISTRICT)
OVERLAY DISTRICT	NONE
EXISTING USE	FIRE STATION
PROPOSED USE	FIRE STATION
BUFFERS REQUIRED	*20' LANDSCAPE BUFFER (NORTH)
REQUIRED BUILDING SETBACKS	FRONT: 60-FEET SIDE: 15-FEET REAR: 15-FEET
MAXIMUM LOT COVERAGE	*10%
MINIMUM LANDSCAPE	*10%
MAXIMUM BUILDING HEIGHT	40-FEET
SANITARY SEWER SERVICE	ON SITE SANITARY
WATER SERVICE	HEARD COUNTY
FEMA FLOOD INSURANCE RATE MAP NO.	13149C0180C
FEMA FIRM DATE	08/19/2010
FEMA SFHA ZONE	ZONE X

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- NOTES:**
- SOILS INFORMATION PER REPORT BY CARTER ENGINEERING CONSULTANTS
 - ACCEPTANCE RATE = 325 S.F. / BEDROOM (SEE SOIL REPORT) FOR PRIMARY SYSTEM.
 - DRAINFIELD TRENCH WIDTH MINIMUM OF 3 FEET WITH SPACING OF 8 FEET
 - SEPTIC TANK AND DRAINFIELD INSTALLATION SHALL MEET ALL CURRENT STANDARDS, REQUIREMENTS, SPECIFICATIONS AND POLICIES OF THE DEPARTMENT OF ENVIRONMENTAL HEALTH/HEARD COUNTY, GEORGIA.
 - THE CLOSEST WELL IS OVER 100 FT FROM THE DRAINFIELD.
 - THERE ARE NO APPARENT SPRINGS WITHIN 100 FT OF DRAINFIELD.

REVISION BLOCK	ISSUE	REVISION DATE & DESCRIPTION
1	1	01.16.24 - CLIENT REVIEW
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SITE DEVELOPMENT PLANS
 FOR
FIRE DEPARTMENT 5
 365 JOE STEPHENS ROAD - FRANKLIN, GA 30217

SHEET TITLE: UTILITY PLAN
PROJECT NAME: HEARD COUNTY
SHEET NUMBER: C 7.0
PROJECT NUMBER: 23001HCG
DATE: 01.16.24

N/F ALAN LOY
DB 790-201
PB 2-164

N/F MICHAEL SCHNEIDER
DB 433-246
PB 7-245
& 7-229

CARTER ENGINEERING CONSULTANTS, INC.
J. Brian Kimsey, PE
1010 COMMERCE DR. - BOGART, GA 30622
Phone: 770-725-1200 - e-mail: brian@carterengineering.com

SOIL REPORT

COUNTY:	HEARD	DATE:	JANUARY 09, 2024
OWNER:	HEARD COUNTY BOC	PHONE NUMBER:	-
SITE ADDRESS:	365 JOE STEPHENS RD.	GMD:	LAND LOT 202, DISTRICT 3
SUBDIVISION:	N/A	LOT NUMBER(S):	-
INTENSITY LEVEL OF INVESTIGATION:		LEVEL:	LEVEL 3

SOIL BORING PROPERTIES

SOIL SERIES	SLOPE %	DEPTH TO BEDROCK OR SANDSTONE (inches)	DEPTH TO SEASONAL HIGH WATER TABLE (inches)	ABSORPTION RATE AT RECOMMENDED TRENCH DEPTH (min/inch)	RECOMMENDED TRENCH DEPTH (inches)	SUITABILITY CODE	Description Below
BETHLEHEM	5-15%	54-60	> 72	65	24-36	N	
SAW	5-15%	36-40	> 72	SEE CODE	SEE CODE	H	
APPLING	2-10%	> 72	> 72	75	30-48	A	

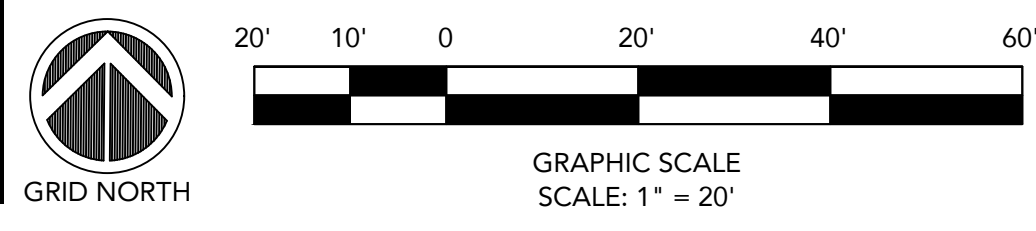
SUITABILITY CODE DESCRIPTIONS AND GENERAL NOTES

CODE	EXPLANATION
A	These soils are suitable for installation of on-site systems with proper system design, installation, and maintenance. Position of the site or other soil and landscape considerations may require the drainfield area to be greater than the minimum and/or the drainfield design to require equal distribution or level field installation.
H	These soils have bedrock. Limitations and are not suitable for installation of a conventional on-site system without special design or installation. Properties of the soil and site may require the drainfield area to be greater than the minimum and/or the drainfield design to require equal distribution or level field installation. Non-conventional system design and installation must be approved by the local Environmental Health Specialist.
N	Because of soft bedrock at a shallow depth, these soils typically are not suitable for installation of a conventional on-site system. Hydraulic properties of the rock vary, however, and in some areas, the soft rock has a percolation rate suitable for on-site system installation. Intensive investigations are required to evaluate hydraulic properties of the rock and site suitability. On-site system installation before home construction may be required to ensure the system can be properly installed. Properties of the soil and site may require the drainfield area to be greater than the minimum and/or the drainfield design to require equal distribution or level field installation. Non-conventional system design and installation must be approved by the local Environmental Health Specialist.

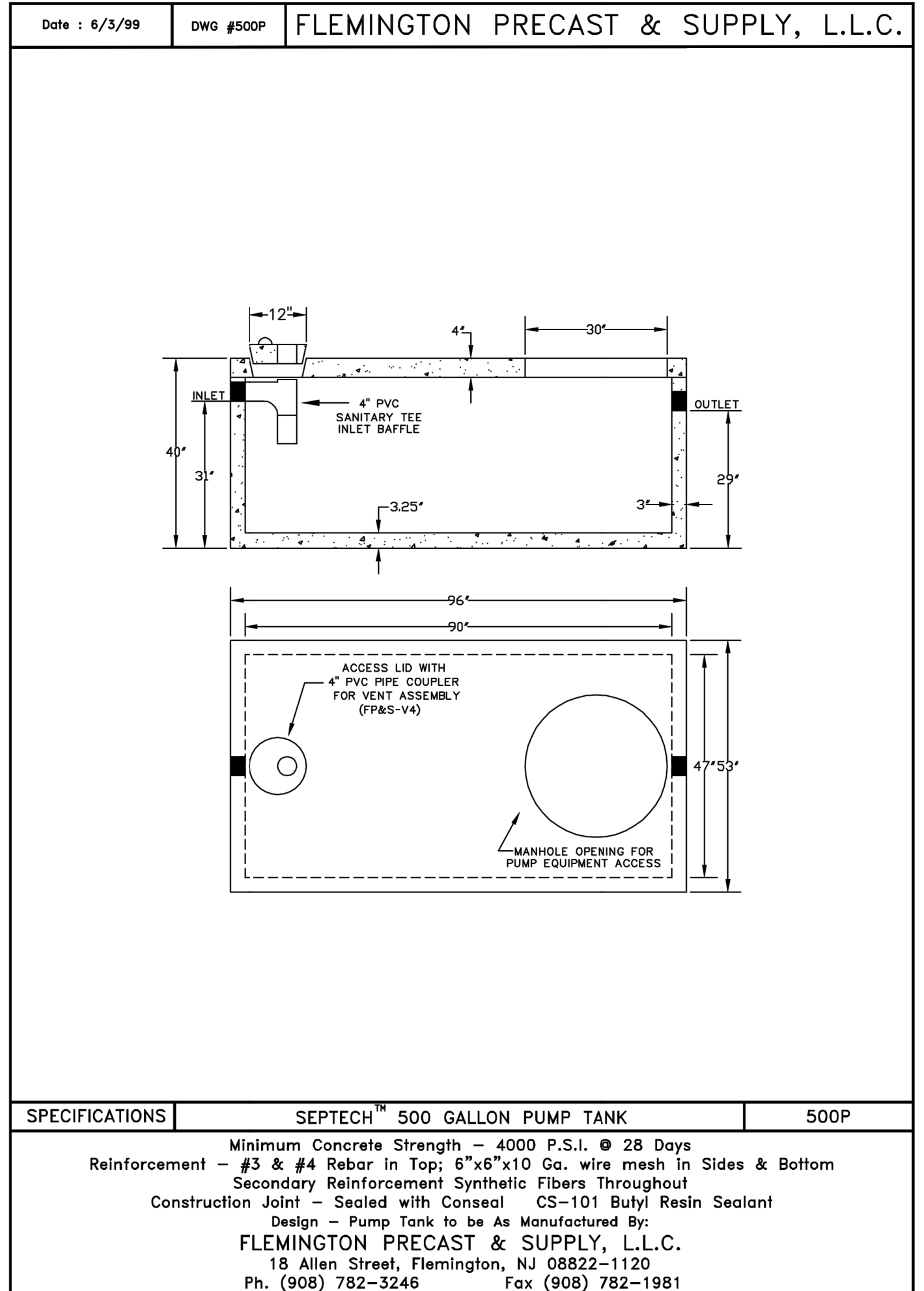
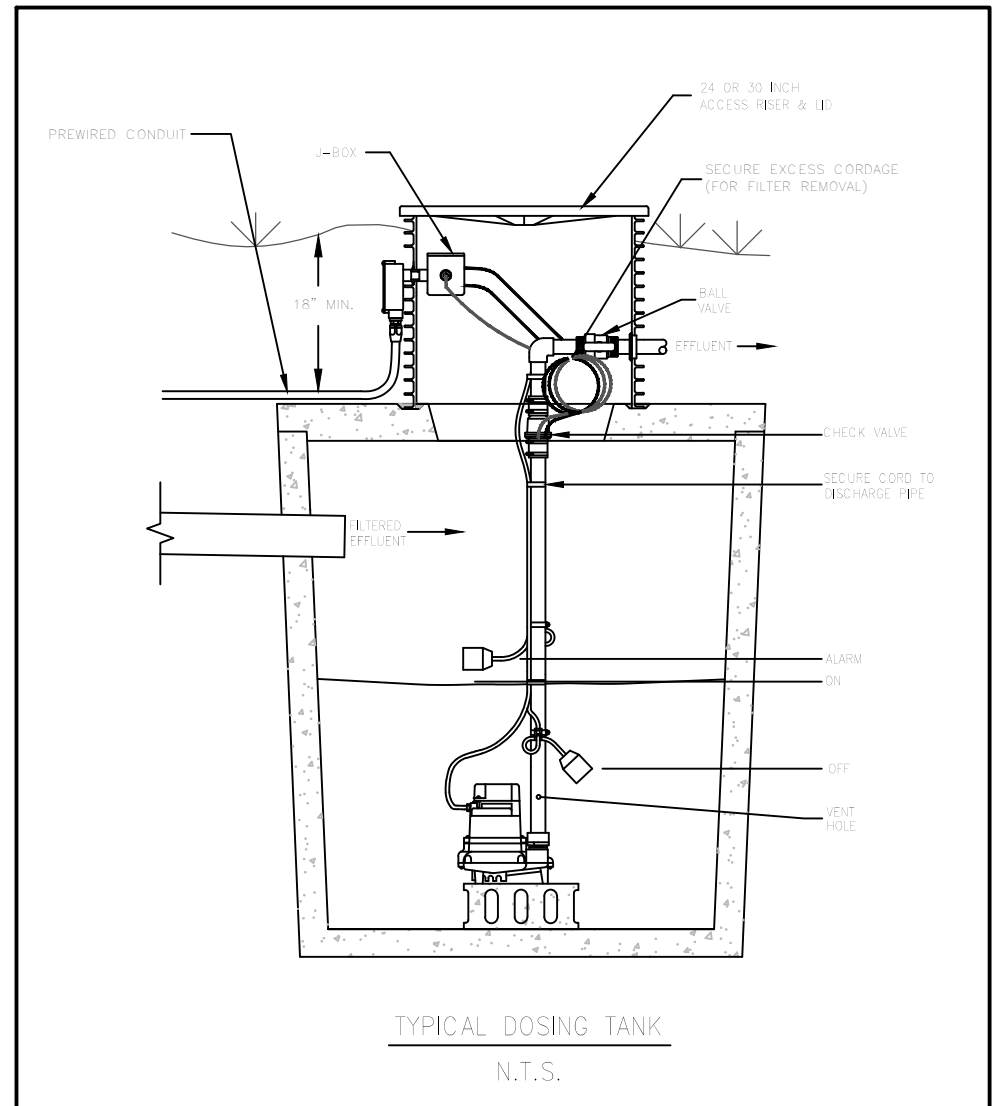
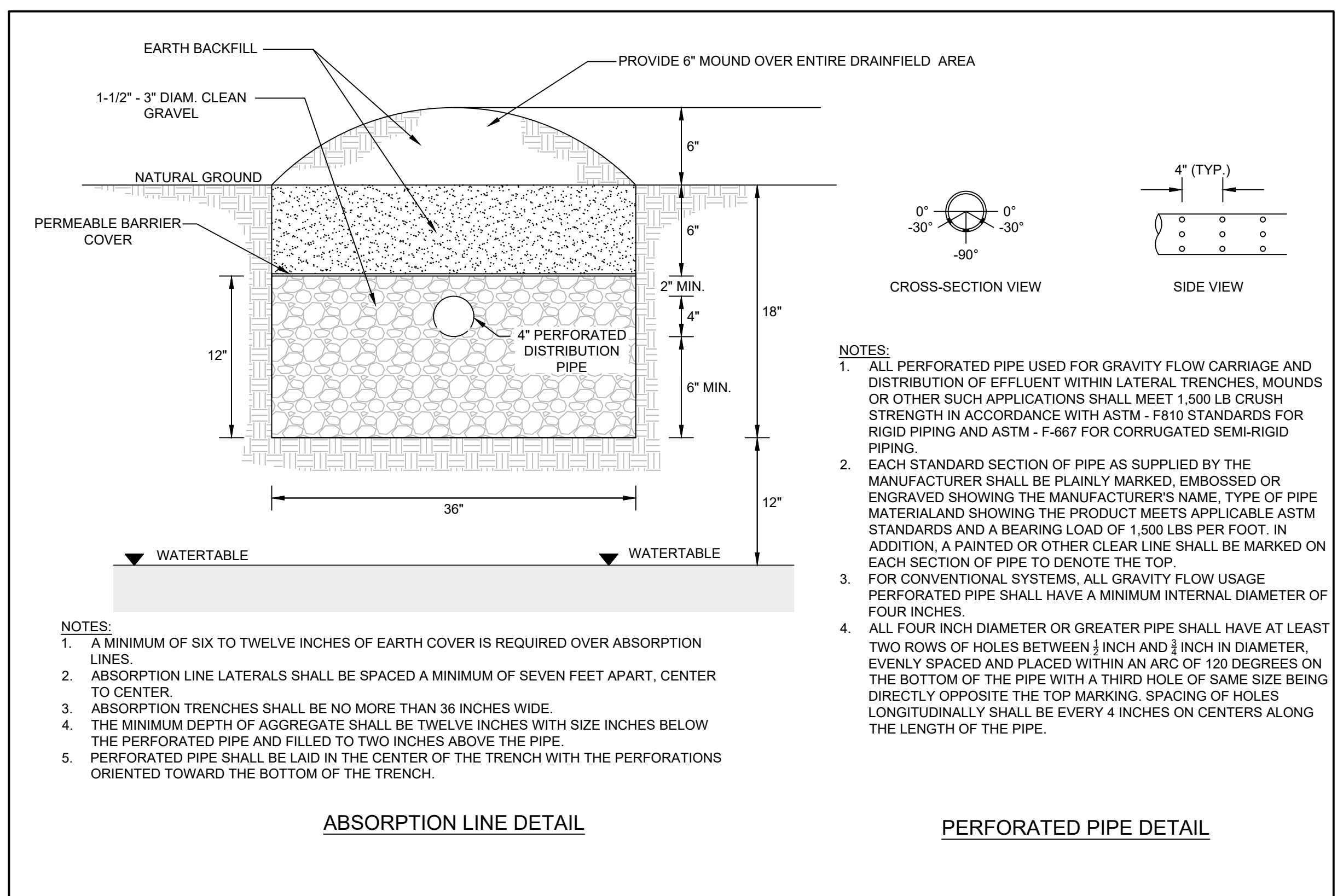
PRIMARY SYSTEM: SEPTIC TANK CALCULATIONS - Fire Station 5

ABSORPTION/DRAINFIELD CALCULATIONS:				
PER GA MANUAL FOR ON-SITE SEWAGE MANAGEMENT SYSTEMS - SECTION J:				
150 GPD/BEDROOM *	3	BEDROOM	=	450 GPD
1. PERCOLATION RATE	345 S.F./BEDROOM			
2. AREA	1035 S.F.	/	3 F.T.	345 L.F.
3. LENGTH	345 S.F.	*	0.65	224.25 L.F.
4. CHAMBER FACTOR	345 L.F.			
5. DRAINFIELD LENGTH	225 L.F.			
ACTUAL INSTALLATION:				
1. SEPTIC TANK:	(1)	1,500	GAL TANK	
2. INSTALLED LENGTH:		228	TOTAL L.F.	
3. REPLACEMENT LENGTH:		345	TOTAL L.F.	

*NOTE: REPLACEMENT AREA TOTAL LENGTH CALCULATIONS ARE THE SAME AS PRIMARY SYSTEM CALCULATIONS



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The Quick4^{PLUS} High Capacity Chamber

Quick4 PlusSM Series

The Quick4 Plus High Capacity Chamber offers maximum strength through its two center structural columns. This chamber can be installed in a 36-inch-wide trench. Like the original line of Quick4 chambers, it offers advanced contouring capability with its Contour Swivel Connection™ which permits turns up to 15-degrees, right or left. It is also available in four-foot lengths to provide optimal installation flexibility. The Quick4 Plus All-in-One 12 Endcap, and the Quick4 Periscope are available with this chamber, providing increased flexibility in system configurations.

Quick4 Plus High Capacity Chamber Benefits:

- Two center structural columns offer increased stability and superior strength
- Advanced contouring connections
- Latching mechanism allows for quick installation
- Four-foot chamber lengths are easy to handle and install
- Supports wheel loads of 16,000 lbs/axle with 12" of cover

Quick4 Plus All-in-One 12 Endcap Benefits:

- May be used at the end of chamber row for an inlet/outlet or can be installed mid-trench
- Mid-trench connection feature allows construction of chamber rows with center feed, as an alternative to inletting at the ends of chamber rows
- Center-feed connection allows for easy installation of serial distribution systems
- Pipe connection options include sides, ends or top

Quick4 Plus All-in-One Periscope Benefits:

- Allows for raised invert installations
- 180° directional inletting
- 12" raised invert is ideal for serial applications

Quick4 Plus High Capacity Chamber Specifications

Size: 34"W x 53"L x 14"H (864 mm x 1346 mm x 356 mm)

Effective Length: 48" (1219 mm)

Louwer Height: 12" (305 mm)

Storage Capacity: 54 gal (204 L)

Invert Height: 0.8" (20 mm), 5.3" (135 mm), 8.0" (203 mm), 12.7" (323 mm)

APPROVED IN

Certified by the International Association of Plumbing and Mechanical Officials (IAPMO)

The Quick4^{PLUS} High Capacity Chamber

Quick4 PlusSM Series

Quick4 Plus All-in-One 12 Endcap

Quick4 Plus All-in-One Periscope

INFILTRATOR WATER TECHNOLOGIES STANDARD LIMITED WARRANTY

(a) The structural integrity of each chamber, endcap and other accessory manufactured by Infiltrator ("Units"), when installed and operated in a leachfield of an onsite septic system in accordance with Infiltrator's instructions, is warranted to the original purchaser ("Holder") against defective materials and workmanship for one year from the date that the septic permit is issued for the septic system containing the Units, provided, however, that if a septic permit is not required by applicable law, the warranty period will begin upon the date that installation of the septic system commences. To exercise its warranty rights, Holder must notify Infiltrator in writing at its Corporate Headquarters in Old Saybrook, Connecticut within fifteen (15) days of the alleged defect. Infiltrator will supply replacement Units for Units determined by Infiltrator to be covered by this Limited Warranty. Infiltrator's liability specifically excludes the cost of removal and/or installation of the Units.

(b) THE LIMITED WARRANTY AND REMEDIES IN SUBPARAGRAPH (a) ARE EXCLUSIVE. THERE ARE NO OTHER WARRANTIES WITH RESPECT TO THE UNITS, INCLUDING NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

(c) This Limited Warranty shall be void if any part of the chamber system is manufactured by anyone other than Infiltrator. The Limited Warranty does not extend to incidental, consequential, special or indirect damages. Infiltrator shall not be liable for penalties or liquidated damages, including loss of production and profits, labor and materials, overhead costs, or other losses or expenses incurred by the Holder or any third party. Specifically excluded from Limited Warranty coverage are damages to the Units due to ordinary wear and tear, alteration, accident, misuse, abuse or neglect of the Units; the Units being subjected to vehicle traffic or other conditions which are not permitted by the installation instructions; failure to maintain the minimum ground cover set forth in the installation instructions; the placement of improper materials into the system containing the Units; failure of the Units or the septic system due to improper siting or improper siting, excessive water usage, improper grease disposal, or improper operation; or any other event not caused by Infiltrator. This Limited Warranty shall be void if the Holder fails to comply with all of the terms set forth in this Limited Warranty. Further, in no event shall Infiltrator be responsible for any loss or damage to the Holder, the Units, or any third party resulting from installation or siting, or from any product liability claims of Holder or any third party. For this Limited Warranty to apply, the Units must be installed in accordance with all site conditions required by state and local codes, at other applicable laws, and Infiltrator's installation instructions.

(d) No representative of Infiltrator has the authority to change or extend this Limited Warranty. No warranty applies to any party other than the original Holder.

The above represents the Standard Limited Warranty offered by Infiltrator. A limited number of states and countries have different warranty requirements. Any purchaser of Units should contact Infiltrator's Corporate Headquarters in Old Saybrook, Connecticut, prior to such purchase, to obtain a copy of the applicable warranty, and should carefully read that warranty prior to the purchase of Units.

U.S. Patents: 4,759,861; 5,017,241; 5,156,488; 5,336,917; 5,401,116; 5,451,459; 5,511,803; 5,716,163; 5,989,778; 6,839,844 Canadian Patents: 1,299,899; 2,004,664 Other patents pending.

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Consol, MonoSealing, PolyTuff, ChamberSeal, MaxiPuff, ProSeal, Quick4, Quick4Plus, SideWinder, and Infiltrator Water Technologies are trademarks of Infiltrator Water Technologies.

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Contact Infiltrator Water Technologies' Technical Services Department for assistance at 1-800-221-4436

ONSITE SEWAGE MANAGEMENT SYSTEM PUMP SIZE CALCULATION

General Information

DATE: 1/16/2024 SYSTEM TYPE: Conventional System
 CLIENT: Heard County
 SITE ADDRESS: 365 Joe Stephens Road

PUMP HYDRAULIC DESIGN

Section A: Static Lift

Max Lift Required By Pump + 5ft	Total Headloss (ft)	(psi)
	10	4.3

Section B: Major Friction Loss

Pipe Number	Nominal Size (in)	Pipe Material	Length (ft)	Q (gpm)	From Friction Loss Tables			Total Headloss	
					Velocity (fps)	Headloss / 100 L.F. (psi)	Headloss / 100 L.F. (ft)	Headloss (ft)	(psi)
1	2	Sch 40 PVC	23	34	3.31	0.89	2.05	0.5	0.2
2	N/A							0.0	0.0
3	N/A							0.0	0.0
4	N/A							0.0	0.0
5	N/A							0.0	0.0
Subtotal								0.5	0.2

Section C: Minor Friction Loss

Method 1: 10% of Section A & B	Method 1 Subtotal	
	Total Headloss (ft)	(psi)
	1.0	0.5

Method 2: Fitting Equivalent Length

Fitting Number	Fitting Type	Fitting Size (in)	Number of Fittings	From Eq. Length Table			Total Headloss		
				Equivalent Length (ft)	Headloss / 100 L.F. (psi)	Headloss / 100 L.F. (ft)	Headloss (ft)	(psi)	
1	Check Valve	2	1	17.2	0.89	2.05	0.4	0.2	
2	45 Fitting	2	1	2.58	0.89	2.05	0.1	0.0	
3	N/A						0.0	0.0	
4	N/A						0.0	0.0	
5	N/A						0.0	0.0	
Method 2 Subtotal								0.4	0.2

Minor Friction Loss shall be the greater of Method 1 & Method 2

Method 1 Subtotal		Total Headloss (ft)	(psi)
		1.0	0.5

Section D: Pressure at Outlet

Desired Pressure @ Outlet =	1.0	psi	
Total Headloss (ft)		(psi)	
		0.4	1.0

Section E: Total Dynamic Head

Total Dynamic Head (ft)		(psi)	
		12.0	6.0

Section F: Pump Selection

Use the following pump or equivalent:

Pump Model	Operating Point	
Zoeller Model 53 Sump Pump	TDH	GPM
	12.0	28.2

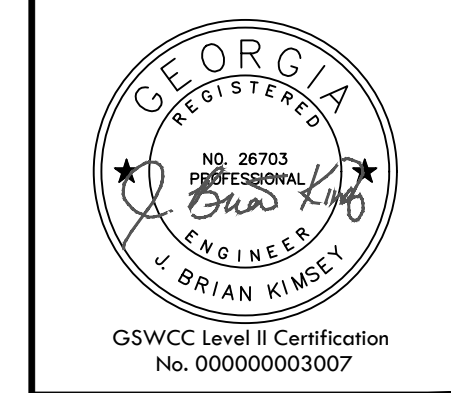
Pump Performance Curves

Performance Curve, 50 Series: 60 Hz 009897

Performance Curve Models 53 - 59, 009897

REVISION BLOCK

ISSUE	REVISION	DATE	DESCRIPTION
1	1	01/16/24	CLIENT REVIEW
2	2		
3	3		
4	4		
5	5		
6	6		
7	7		
8	8		



SITE DEVELOPMENT PLANS
 FOR
FIRE DEPARTMENT 5
 365 JOE STEPHENS ROAD - FRANKLIN, GA 30217

SHEET TITLE:
UTILITY DETAILS

PROJECT NAME:
HEARD COUNTY

SHEET NUMBER:
C 7.1

PROJECT NUMBER:
23001HCG

DATE:
01.16.24

ENGINEER/DESIGNER NOT RESPONSIBLE FOR COST CHANGES DURING PRELIMINARY PHASE. BIDS & QUOTES SHALL BE BASED ON PLAN SETS LABELED "ISSUE FOR CONSTRUCTION".

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#4 24 HOUR CONTACT

FELICIA ADAMS: 706-675-3821

#5 PRIMARY PERMITTEE

HEARD COUNTY BOARD OF COMMISSIONERS
201 PARK AVENUE
FRANKLIN, GA 30217
PHONE: 706-675-3821
EMAIL: FELICIAADAMS@HEARDCOUNTYGA.COM

#6 PROJECT AREA

TOTAL SITE AREA: 1.24 ACRES
TOTAL DISTURBED AREA: 1.2 ACRES

#7 CONSTRUCTION EXIST LOCATION

LONGITUDE: -84.985220 WEST
LATITUDE: 33.342700 NORTH

#9 DESCRIPTION OF THE CONSTRUCTION ACTIVITY

THE EXISTING SITE CONSISTS OF AN ABANDONED GAS STATION FACILITY. THE PROJECT INCLUDES THE CONSTRUCTION AND INSTALLATION OF A FIRE STATION WITH ALL DRIVEWAYS AND UTILITIES REQUIRED.

#11 PROJECT RECEIVING WATERS

THE RECEIVING WATERS OF THIS PROJECT ARE AN UNNAMED TRIBUTARY TO HILLY MILL CREEK

#12 SITE VISIT CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY DIRECT SUPERVISION.

BRIAN KIMSEY, P.E. 01.16.24
P.E. #26703 DATE

EASC CERTIFICATION NUMBER 000000003007

#13 SOIL & EROSION CONTROL BMP CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY DIRECT SUPERVISION. I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATERS) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO GAR 100001.

BRIAN KIMSEY, P.E. 01.16.24
P.E. #26703 DATE

EASC CERTIFICATION NUMBER 000000003007

#14 CERTIFY INSPECTION

THE DESIGN PROFESSIONAL WHO PREPARED THE E&SPC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMP'S WITHIN 7 DAYS AFTER INSTALLATION.

#15 NON-EXEMPT ACTIVITIES

NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF UNDISTURBED VEGETATION OR WITHIN 25 FEET OF THE COASTAL MARSHLAND BUFFERS AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS

#16 BUFFER ENCROACHMENT

THERE ARE NO WARRANTED OR NECESSARY ENCROACHMENTS TO ANY BUFFERS. VARIANCE IS NOT REQUIRED.

#17 AMENDMENT/REVISION STATEMENT

AMENDMENTS/REVISIONS TO THE E&SPC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

#18 WASTE MATERIAL STATEMENT

WASTE MATERIAL SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

WASTE MATERIALS

ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPLOYED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY AND TRASH WILL BE HAULED AS REQUIRED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE WILL BE BURIED ON-SITE.

ALL PERSONNEL WILL BE INSTRUCTED ON PROPER PROCEDURES FOR WASTE DISPOSAL. A NOTICE STATING THESE PRACTICES WILL BE POSTED AT THE JOBSITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE, AND/OR FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. THE JOB SITE SUPERINTENDENT, WHO WILL ALSO BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED, WILL INSTRUCT SITE PERSONNEL IN THESE PRACTICES. MATERIAL SAFETY DATA SHEETS (MSDS'S) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOBSITE WILL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS. AN MSDS WILL BE POSTED IN THE IMMEDIATE AREA WHERE SUCH PRODUCT IS STORED AND/OR USED AND ANOTHER COPY OF EACH MSDS WILL BE MAINTAINED IN THE E&SPC PLAN AT THE JOB SITE CONSTRUCTION TRAILER OFFICE. EACH EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF MSDS SHEETS AND THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING, PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES.

THE CONTRACTOR WILL IMPLEMENT THE SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN FOUND WITHIN THIS E&SPC AND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIALS OR HAZARDOUS WASTES WILL BE ALLOWED TO COME IN CONTACT WITH STORMWATER DISCHARGES. IF SUCH CONTACT OCCURS, THE STORMWATER DISCHARGEMENT SITE UNIT SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORMWATER, IT SHALL BE THE RESPONSIBILITY OF THE JOB SITE SUPERINTENDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE SPCC PLAN.

SANITARY WASTES

A MINIMUM OF ONE PORTABLE SANITARY UNIT WILL BE PROVIDED FROM EVERY TEN (10) WORKERS ON THE SITE. ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONE TIME PER WEEK BY A LICENSED PORTABLE FACILITY PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS.

ALL SANITARY WASTE UNITS WILL BE LOCATED IN ONE AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTION TO STORM WATER DISCHARGE IS NEGLIGIBLE. ALL SANITARY BMP'S MUST BE MAINTAINED AS SPECIFIED IN THE E&SPC PLAN. ALL SANITARY DESIGNED PLASTIC SKID CONTAINERS AROUND THE BASE, TO PREVENT WASTES FORM CONTRIBUTION TO STORM WATER DISCHARGES. THE LOCATION OF SANITARY WASTE UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN BY THE CONTRACTOR ONCE THE LOCATIONS HAVE BEEN DETERMINED.

#19 SEDIMENT CONTROL ON-SITE

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.

#20 EROSION CONTROL MEASURES MAINTAINED AT ALL TIMES

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

#21 EXPOSED DISTURBED AREAS

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 7 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

#22 IMPAIRED STREAM SEGMENT

CONSTRUCTION ACTIVITY DOES NOTE DISCHARGE INTO AN IMPAIRED STREAM SEGMENT. THE CONSTRUCTION ACTIVITY IS NOT WITHIN 1 LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF AN BIOTA IMPAIRED STREAM SEGMENT.

#24 CONCRETE WASH DOWN

THIS PROJECT DOES NOT ALLOW CONCRETE WASH DOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND REAR OF THE VEHICLES ON THE PROJECT SITE. THESE ACTIONS ARE ONLY ALLOWED AT SPECIFIED LOCATIONS WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.

#25 BMP REMEDIATION FOR PETROLEUM SPILLS AND WASTE

PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT MINOR SPILLS. FUEL AND LUBRICANT CONTAINMENT AND DISPOSAL METHODS SHALL BE MAINTAINED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.

PAINTS/FINISHES/SOLVENTS - ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND

RECOMMENDATIONS. CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON-SITE AT THE SPECIFIED LOCATION.

FERTILIZER/HERBICIDES - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWQC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.

BUILDING MATERIALS - NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ON-SITE. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

SPILL CLEANUP AND CONTROL PRACTICES

- LOCAL, STATE, AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL.
MATERIAL AND EQUIPMENT, NECESSARY OF SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.
SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.
ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS.
FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1 - 800 - 424 - 8802.
FOR SPILLS OF AN UNKNOWN NATURE, THE NATIONAL CENTER (NRC) WILL BE CONTACTED WITH 24 HOURS AT 1 - 800 - 424 - 8802.
FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS.

-FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.

THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1320 GALLONS OF OIL IS STORED ON-SITE (THIS INCLUDES CAPACITIES OF EQUIPMENT). THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL.

#26 POLLUTANT CONTROL AFTER CONSTRUCTION IS COMPLETED

ALL DISTURBED AREAS WILL BE PERMANENTLY STABILIZED ONCE CONSTRUCTION ACTIVITY IS COMPLETED. ALL RUNOFF FROM THE IMPERVIOUS AREAS ON SITE WILL FLOW TO THE PROPOSED INLETS AND BE CAPTURED WITHIN THE UNDERGROUND DETENTION SYSTEM. A HYDRODYNAMIC SEPARATOR HAS BEEN PROPOSED FOR THE SITE FOR POLLUTANT CONTROL.

#27 COVER FOR BUILDING MATERIALS

THE CONTRACTOR SHALL LOCATE ALL BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTES, AND OTHER MATERIALS IN A LOCATION FREE FROM STORMWATER RUNOFF. IN ADDITION, THE CONTRACTOR SHALL PROTECT THESE MATERIALS FROM PRECIPITATION BY COVERING WITH PLASTIC SHEETING OR A TEMPORARY ROOF THROUGH-OUT THE DURATION OF THE CONSTRUCTION PERIOD.

#28 STORM WATER POLLUTION BMP'S

POTENTIAL SOURCES OF STORM WATER POLLUTION INCLUDE: SEDIMENT DISPLACEMENT FROM EARTHWORK AND EROSION, CONSTRUCTION TRAFFIC FROM CONSTRUCTION WORKERS AND EQUIPMENT LEAKAGE OF SPILLS OF FUEL, OIL, AND FLUIDS FROM CONSTRUCTION EQUIPMENT. THE PROPOSED TEMPORARY SEDIMENT TRAPS AND SILT FENCE WILL REDUCE POLLUTANTS IN STORMWATER DISCHARGES DURING CONSTRUCTION. NO ADVERSE IMPACTS ARE EXPECTED DUE TO THE NATURE OF THIS CONSTRUCTION ACTIVITY.

#29 ACTIVITY SCHEDULE

Table with columns for months (March to August) and rows for tasks such as 'CONSTRUCTION EXIT AND PERIMETER SILT FENCE', 'DEMOLITION', 'ROUGH GRADING', etc.

#30 INSPECTIONS

- 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; (B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR LEAVE 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 ON WEDNESDAY AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER EVERY 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 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 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 WATERS); FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED 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 WATERS); 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 WATERS).
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 PERSONNEL MAKING EACH INSPECTION, THE DATES OF EACH INSPECTION, THE CONSTRUCTION PHASE OF THE PROJECT, AND OTHER OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTION S TAKEN IN ACCORDANCE WITH PART IV.D.4.(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 THIS PERMIT. IF 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, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2 OF THIS PERMIT.

#31 SAMPLING FREQUENCY

- 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 STORM AFTER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE. HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THE IS 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 STORM WATER 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 FORM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS (8:00 AM TO 5:00 PM MONDAY THROUGH FRIDAY, 8:00 AM TO 5:00 PM AND SATURDAY 8:00 AM TO 5:00 PM WHEN CONSTRUCTION ACTIVITY IS BEING CONDUCTED BY THE PRIMARY PERMITTEE) 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 STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER THE STORMWATER DISCHARGE HAS BEEN COMPLETED, BUT IN NO CASE MORE THAN 90 DAYS. IF 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 BMP'S IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL AREA NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITH TOW (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 BMP'S 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.(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.

"NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENT 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.

REPORTING:

- 1. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT A SUMMARY OF THE MONITORING 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 STORM WATER 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 RESULTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G. 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 DATES THE 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; AND
G. THE RESULTS OF SUCH ANALYSES, INCLUDING THE BECH-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. IF ELECTRONIC SUBMITTAL IS PROVIDED BY EPD THEN THE WRITTEN CORRESPONDENCE MAY BE SUBMITTED ELECTRONICALLY; IF REQUIRED, A PAPER COPY MUST ALSO BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL OR SIMILAR SERVICE.

#32 RETENTION OF RECORDS

- 1. THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT THE DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A COPY IS NOT 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.

#33 STORMWATER SAMPLING

SAMPLE ANALYSIS

STORM WATER SAMPLES ARE TO BE ANALYZED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 AND THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001."

STORM WATER IS TO BE SAMPLED FOR NEPHELOMETRIC TURBIDITY UNITS (NTU) AT THE OUTFALL LOCATION. A DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH CONDITION RESULTS IN THE TURBIDITY OF THE DISCHARGE EXCEEDING 75, THE VALUE THAT WAS SELECTED FROM APPENDIX B IN PERMIT NO. GAR 1000001. THE NTU IS BASED UPON THE DISTURBED ACREAGE OF 1.2 ACRES FOR THE PROJECT SITE, THE SURFACE WATER DRAINAGE AREA OF <1.0 SQUARE MILES, AND RECEIVING WATER WHICH SUPPORTS WARM WATER FISHERIES.

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.

PER NPDES PERMIT, GAR 100001, "SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES. SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER. 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. MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED.

#34 SAMPLING POINTS AND NTU REQUIREMENTS

APPENDIX B
Nephelometric Turbidity Unity (NTU) TABLES

Table with columns for Surface Water Drainage Area, Square Miles and rows for Cold Water (Trout Stream) and Warm Water (Supporting Warm Water Fisheries).

Table with columns for Surface Water Drainage Area, Square Miles and rows for Cold Water (Trout Stream) and Warm Water (Supporting Warm Water Fisheries).

39 & 40 ALTERNATIVE BMP'S

N/A - THERE ARE NO ALTERNATIVE BMP'S ASSOCIATED WITH THIS PROJECT.

41 & 42 WETLANDS, STATE WATERS, BUFFERS

FEMA FLOOD INSURANCE RATE MAP NO. 13149C0180C, DATED 08/19/2010 INDICATES THAT THIS PROPERTY IS LOCATED IN ZONE X.

#45 PEAK DISCHARGE FLOW

PEAK DISCHARGE PRIOR TO CONSTRUCTION: Q10 = 7.34 CFS
PEAK DISCHARGE AFTER CONSTRUCTION IS COMPLETE: Q10 = 6.89 CFS

#47 SOILS CHART

Table with columns for Mapping Unit & Soil Name, Soil Texture, Erodibility (K), Structure, and Permeability (IN/HR).

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST - STAND ALONE CONSTRUCTION PROJECTS

Project Name: FIRE DEPARTMENT 5, Address: 365 JOE STEPHENS ROAD, City/County: HEARD COUNTY, SWCD: WEST GEORGIA, SWCD, Filled Out By: BRIAN KIMSEY, P.E., Date on Plans: 01.16.24

Checklist table with columns for Sheet #, Included, and TO BE SHOWN ON ES&PC PLAN. Includes items 1-52 covering erosion control, sedimentation, and pollution control measures.

REVISION BLOCK

ISSUE: 01/16/24 - CLIENT REVIEW

1 2 3 4 5 6 7 8

GSWCC Level I Certification No. 000000003007

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SHEET TITLE: EROSION CONTROL NOTES

PROJECT NAME: HEARD COUNTY

SHEET NUMBER: C 8.0

PROJECT NUMBER: 23001HCG

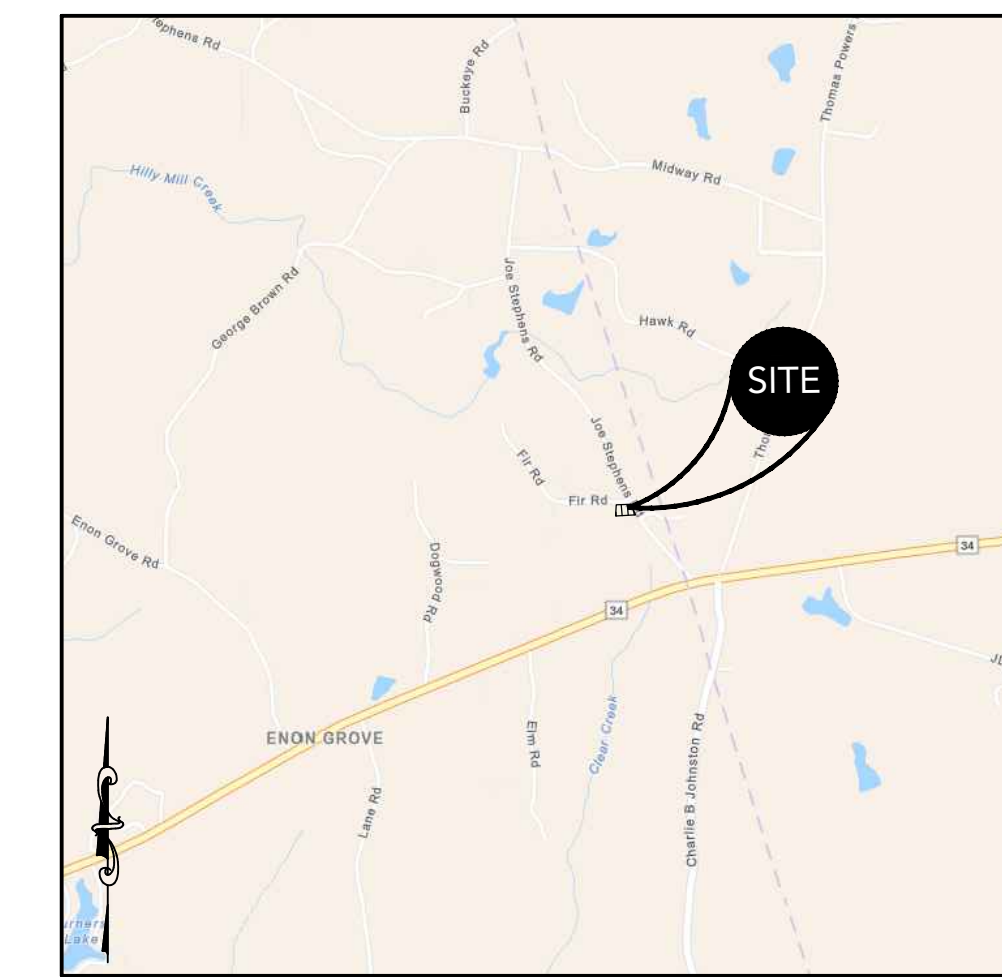
DATE: 01.16.24

SITE DEVELOPMENT PLANS FOR FIRE DEPARTMENT 5, 365 JOE STEPHENS ROAD - FRANKLIN, GA 30217

ENGINEER/DRAWN BY: B. KIMSEY, P.E.
CHECKED BY: B. KIMSEY, P.E.
DATE: 01/16/24

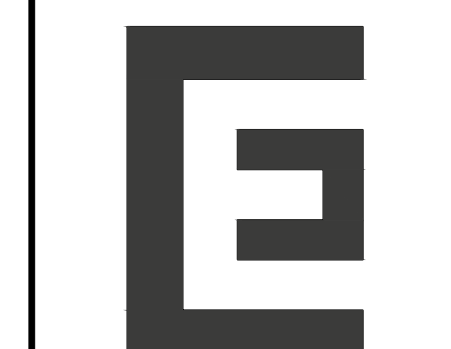
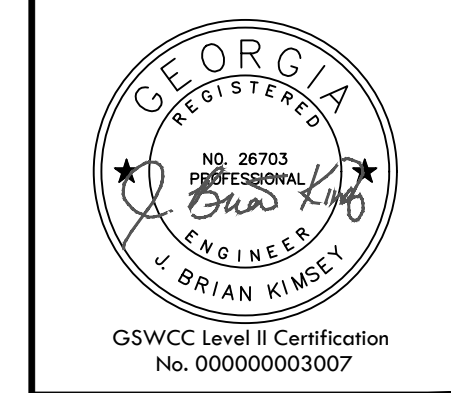
ENGINEER/DRAWN BY: B. KIMSEY, P.E.
CHECKED BY: B. KIMSEY, P.E.
DATE: 01/16/24

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LOCATION MAP
SCALE: N.T.S.

SOIL AND EROSION CONTROL NOTES	
DEVELOPER/OWNER	HEARD COUNTY BOARD OF COMMISSIONERS 201 PARK AVENUE FRANKLIN, GA 30217
24-HOUR CONTACT	FELICIA ADAMS 706-675-3821
PROJECT DESCRIPTION: THE PROJECT INCLUDES THE CONSTRUCTION AND INSTALLATION OF A FIRE STATION WITH ALL DRIVEWAYS AND UTILITIES REQUIRED.	
EXISTING CONDITIONS: EXISTING LAND IS COMPRISED OF AN EXISTING FIRE STATION.	
TOTAL TRACT:	1.24 AC
DISTURBED AREA:	1.2 AC
CRITICAL AREAS: THERE ARE NO CRITICAL AREAS ON SITE. ALL SLOPES STEEPER THAN 3:1 SHALL HAVE EROSION CONTROL MATTING INSTALLED. THERE ARE NO STATE WATERS WITHIN 200 FEET OF THE PROJECT SITE. THERE ARE NO WETLANDS LOCATED ON OR WITHIN THE PROJECT LIMITS.	
1. ADDITIONAL MEASURES WILL BE ADDED IF DEEMED NECESSARY BY ON-SITE INSPECTION.	
2. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.	
3. EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE. PRACTICES WILL BE CHECKED DAILY.	
4. STANDARD AND SPECIFICATIONS: ALL DESIGN WILL CONFORM TO AND ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS SET FORTH IN THE STATE APPROVED EROSION CONTROL DESIGN MANUAL.	
5. THE CONTRACTOR SHALL OBSERVE THE PROJECT SCHEDULE SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO INSURE THAT LAND STRIPPED OF ITS NATURAL COVER IS EXPOSED ONLY IN SMALL TIME PERIODS.	
6. PRIOR TO COMMENCING LAND DISTURBING ACTIVITY, THE LIMITS OF LAND DISTURBANCE AND ALL STREAM BUFFERS SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, AND/OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE ACTIVITY SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION AND NO LAND DISTURBANCE SHALL OCCUR OUTSIDE APPROVED LIMITS.	
7. A STABILIZED CONSTRUCTION ENTRANCE SHALL BE INSTALLED AT EACH POINT OF ENTRY/EXIT FROM THE SITE ONTO ANY PUBLIC ROADWAY PRIOR TO ANY OTHER CONSTRUCTION.	
8. AS INDICATED ON THE ACTIVITY SCHEDULE ON THE SHEET LABELED 'EROSION CONTROL NOTES', SEDIMENT CONTROLS AT THE PERIMETER AND THE CONSTRUCTION EXITS WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY PORTION OF THE SITE.	
9. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 7 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.	
10. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED WITH PERMANENT SEED AND MULCH. AFTER THE ENTIRE SITE IS STABILIZED, ALL ACCUMULATED SEDIMENT WILL BE REMOVED AND DISPOSED OF PROPERLY AND ALL PERIMETER SEDIMENT CONTROLS WILL BE REMOVED.	
11. ALL DRAIN INLET PROTECTION DEVICES ARE TO BE REMOVED WITHIN 30 DAYS AFTER THE SITE HAS BEEN STABILIZED, OR WHEN INLET PROTECTION IS NO LONGER NEEDED. THE AREA AROUND THE INLET IS TO BE CLEANED AND RE-GRADED. IN ADDITION, THE INSIDE OF THE STORM DRAIN INLET MUST BE CLEARED AND BE FREE OF SEDIMENT AND DEBRIS AT THE TIME OF FINAL INSPECTION.	
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL TEMPORARY BMPS.	



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SITE DEVELOPMENT PLANS
FOR
FIRE DEPARTMENT 5
365 JOE STEPHENS ROAD - FRANKLIN, GA 30217

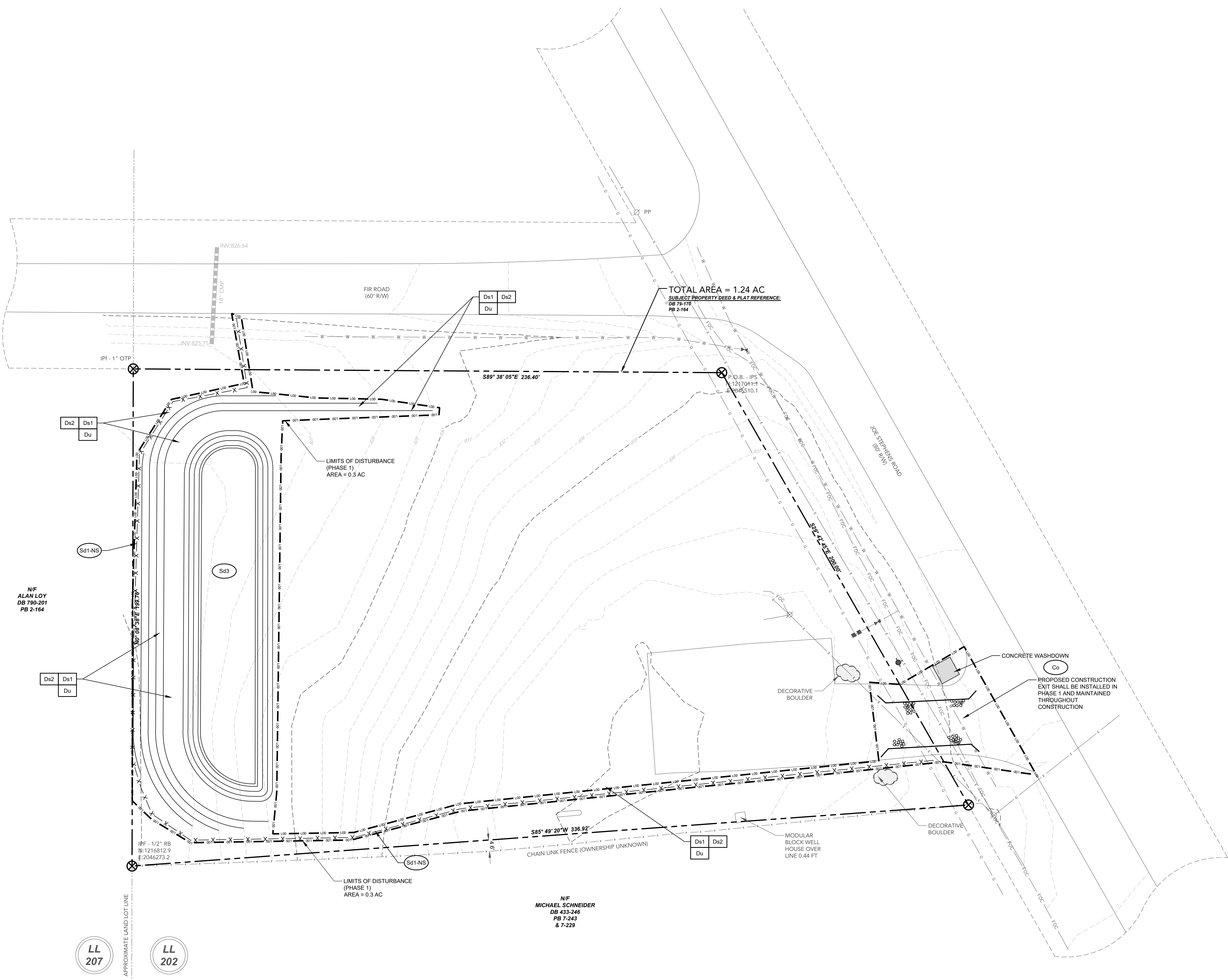
SHEET TITLE:
E&S PLAN PHASE 1

PROJECT NAME:
HEARD COUNTY

SHEET NUMBER:
C 8.1

PROJECT NUMBER:
23001HCG

DATE:
01.16.24



EROSION CONTROL LEGEND	
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)
Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)
Ds3	DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)
Du	DUST CONTROL
Ss	SLOPE STABILIZATION
Co	CONSTRUCTION EXIT
Sd1-NS	SILT FENCE NON-SENSITIVE
St	RIPRAP OUTLET PROTECTION
Sd2-F	INLET PROTECTION (SILT FENCE)
Sd2-P	INLET PROTECTION (PIGS IN A BLANKET)
Sk	FLOATING SURFACE SKIMMER
Sd3	TEMPORARY SEDIMENT BASIN

PROJECT AREA

THERE ARE NO STATE WATERS WITHIN 200 FEET OF THE PROJECT SITE.

THERE ARE NO WETLANDS LOCATED ON OR WITHIN THE PROJECT LIMITS.

DESCRIPTION: Existing land is comprised of an existing fire station. The proposed project includes the construction of a new fire station.

CRITICAL AREAS: There are no critical areas on site. All slopes steeper than 3:1 shall have erosion control matting installed.

PHASE 1 SEDIMENT STORAGE CALCULATIONS:

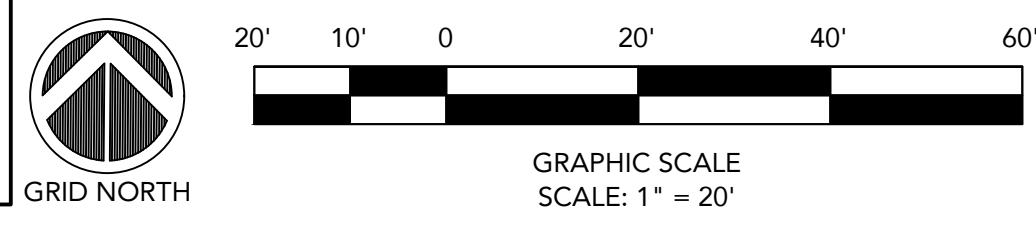
Drainage Area = 1.27 Ac
Disturbed area = 0.3 Ac
Required Sed. Storage = 0.3 Ac * 67 CY/Ac = 20.1 CY

Sed. Storage Provided by the following BMPs (See notes for calculation formulas):

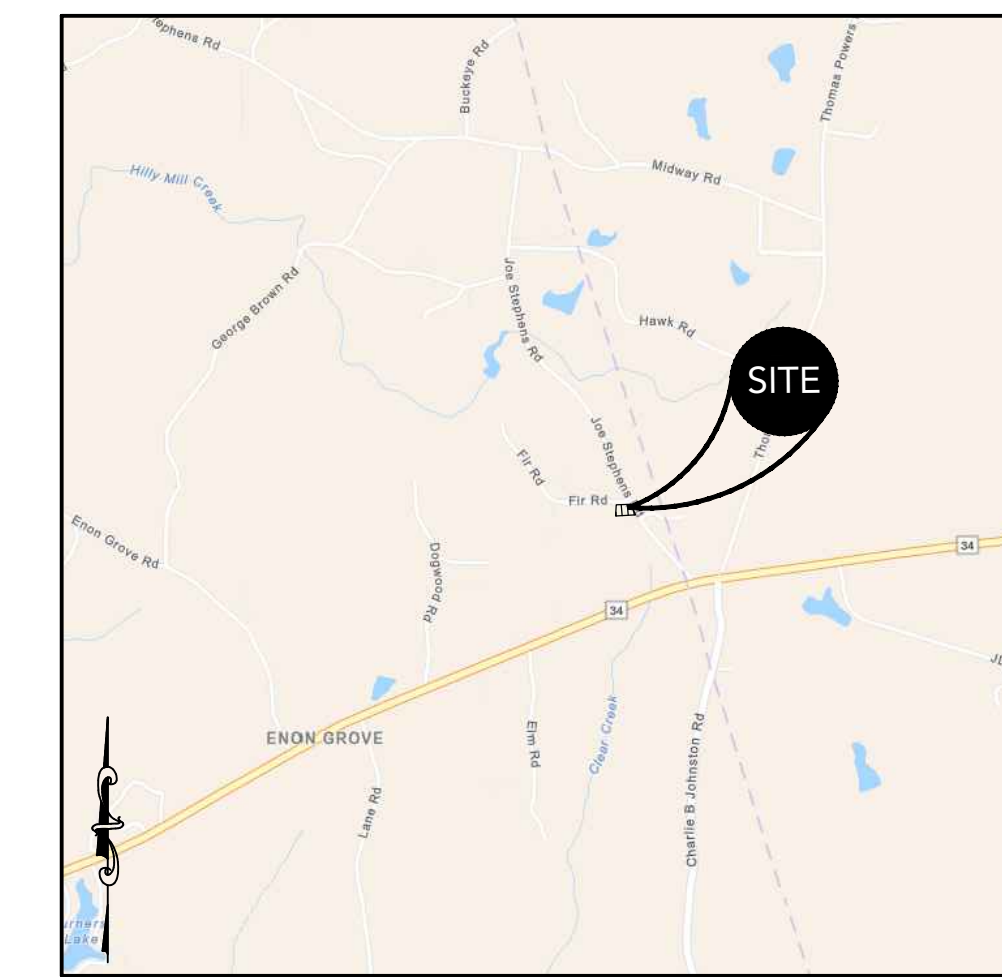
- Silt Fence Storage = Length of silt fence * 0.216 CY/LF = 550.5 LF * 0.216 CY/LF = 118.9 CY
- Temporary Sediment Basin = 0.9 Ac.
- Sediment Storage Required = 0.9 Ac * 67 CY/Ac = 60.3 CY

Total Volume of BMPs = 118.9 CY + 60.3 CY = 179.2 CY

NOTE:
CONSTRUCTION DISTURBED AREA SHOWN ON E&S PLAN. ALL ADDITIONAL DISTURBED AREAS SHALL BE UP GRADIENT OF THE PROPOSED BMP'S. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL BMP'S THROUGHOUT CONSTRUCTION AND PREVENT SEDIMENT FROM MIGRATING DOWN GRADIENT AT ALL TIMES.

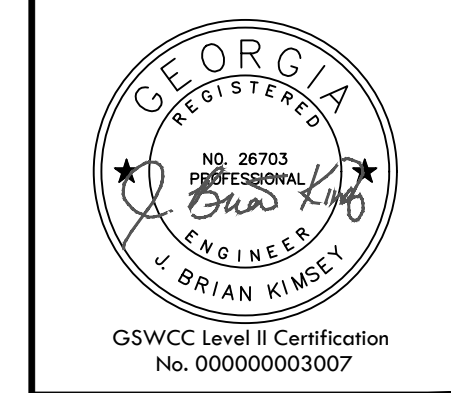


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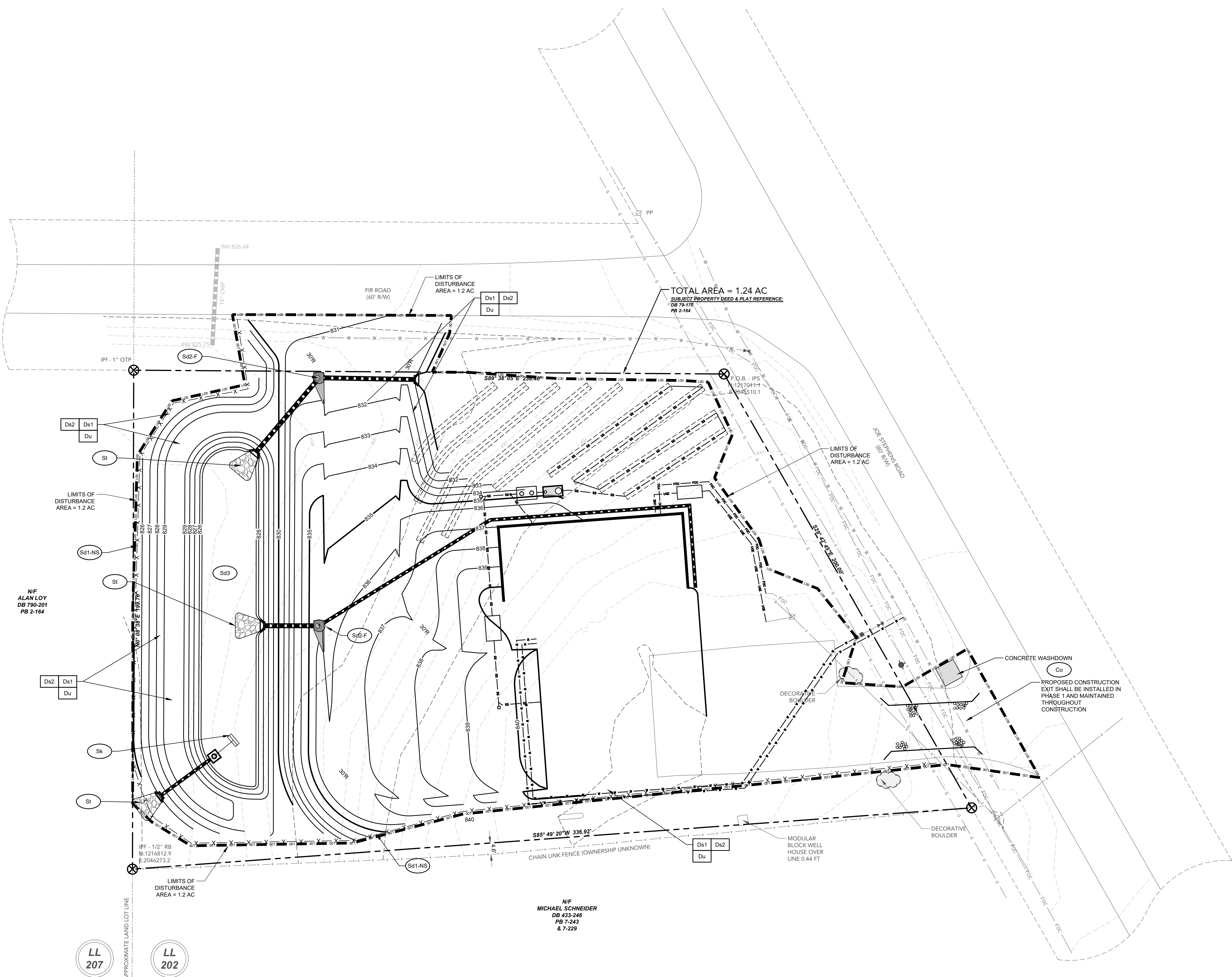
LOCATION MAP
SCALE: N.T.S.

DEVELOPER/OWNER	
HEARD COUNTY BOARD OF COMMISSIONERS 201 PARK AVENUE FRANKLIN, GA 30217	
24-HOUR CONTACT	
FELICIA ADAMS 706-675-3821	
PROJECT DESCRIPTION:	
THE PROJECT INCLUDES THE CONSTRUCTION AND INSTALLATION OF A FIRE STATION WITH ALL DRIVEWAYS AND UTILITIES REQUIRED.	
EXISTING CONDITIONS:	
EXISTING LAND IS COMPRISED OF AN EXISTING FIRE STATION.	
TOTAL TRACT:	1.24 AC
DISTURBED AREA:	1.2 AC
CRITICAL AREAS: THERE ARE NO CRITICAL AREAS ON SITE. ALL SLOPES STEEPER THAN 3:1 SHALL HAVE EROSION CONTROL MATTING INSTALLED. THERE ARE NO STATE WATERS WITHIN 200 FEET OF THE PROJECT SITE. THERE ARE NO WETLANDS LOCATED ON OR WITHIN THE PROJECT LIMITS.	
1. ADDITIONAL MEASURES WILL BE ADDED IF DEEMED NECESSARY BY ON-SITE INSPECTION.	
2. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.	
3. EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE. PRACTICES WILL BE CHECKED DAILY.	
4. STANDARD AND SPECIFICATIONS: ALL DESIGN WILL CONFORM TO AND ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS SET FORTH IN THE STATE APPROVED EROSION CONTROL DESIGN MANUAL.	
5. THE CONTRACTOR SHALL OBSERVE THE PROJECT SCHEDULE SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO INSURE THAT LAND STRIPPED OF ITS NATURAL COVER IS EXPOSED ONLY IN SMALL TIME PERIODS.	
6. PRIOR TO COMMENCING LAND DISTURBING ACTIVITY, THE LIMITS OF LAND DISTURBANCE AND ALL STREAM BUFFERS SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, AND/OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE ACTIVITY SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION AND NO LAND DISTURBANCE SHALL OCCUR OUTSIDE APPROVED LIMITS.	
7. A STABILIZED CONSTRUCTION ENTRANCE SHALL BE INSTALLED AT EACH POINT OF ENTRY/EXIT FROM THE SITE ONTO ANY PUBLIC ROADWAY PRIOR TO ANY OTHER CONSTRUCTION.	
8. AS INDICATED ON THE ACTIVITY SCHEDULE ON THE SHEET LABELED 'EROSION CONTROL NOTES', SEDIMENT CONTROLS AT THE PERIMETER AND THE CONSTRUCTION EXITS WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY PORTION OF THE SITE.	
9. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 7 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.	
10. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED WITH PERMANENT SEED AND MULCH. AFTER THE ENTIRE SITE IS STABILIZED, ALL ACCUMULATED SEDIMENT WILL BE REMOVED AND DISPOSED OF PROPERLY AND ALL PERIMETER SEDIMENT CONTROLS WILL BE REMOVED.	
11. ALL DRAIN INLET PROTECTION DEVICES ARE TO BE REMOVED WITHIN 30 DAYS AFTER THE SITE HAS BEEN STABILIZED, OR WHEN INLET PROTECTION IS NO LONGER NEEDED. THE AREA AROUND THE INLET IS TO BE CLEANED AND RE-GRADED. IN ADDITION, THE INSIDE OF THE STORM DRAIN INLET MUST BE KEPT CLEAR AND BE FREE OF SEDIMENT AND DEBRIS AT THE TIME OF FINAL INSPECTION.	
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL TEMPORARY BMPs.	



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SITE DEVELOPMENT PLANS
FOR
FIRE DEPARTMENT 5
365 JOE STEPHENS ROAD - FRANKLIN, GA 30217



EROSION CONTROL LEGEND	
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)
Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)
Ds3	DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)
Du	DUST CONTROL
Ss	SLOPE STABILIZATION
Co	CONSTRUCTION EXIT
Sd1-NS	SILT FENCE NON-SENSITIVE
St	RIPRAP OUTLET PROTECTION
Sd2-F	INLET PROTECTION (SILT FENCE)
Sd2-P	INLET PROTECTION (PIGS IN A BLANKET)
Sk	FLOATING SURFACE SKIMMER
Sd3	TEMPORARY SEDIMENT BASIN

THERE ARE NO STATE WATERS WITHIN 200 FEET OF THE PROJECT SITE.

THERE ARE NO WETLANDS LOCATED ON OR WITHIN THE PROJECT LIMITS.

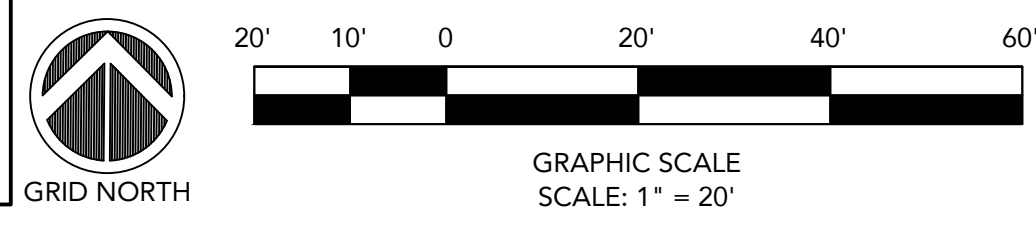
DESCRIPTION: Existing land is comprised of an existing fire station. The proposed project includes the construction of a new fire station.

CRITICAL AREAS: There are no critical areas on site. All slopes steeper than 3:1 shall have erosion control matting installed.

PROJECT AREA

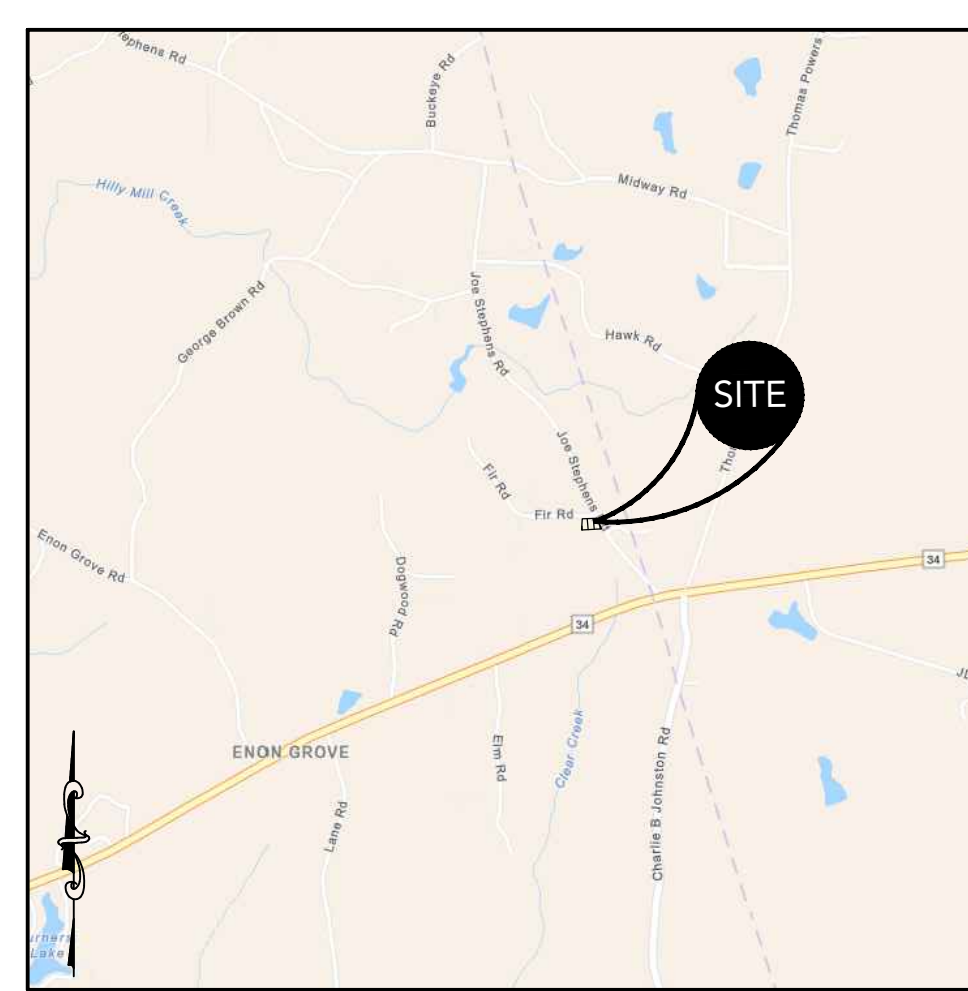
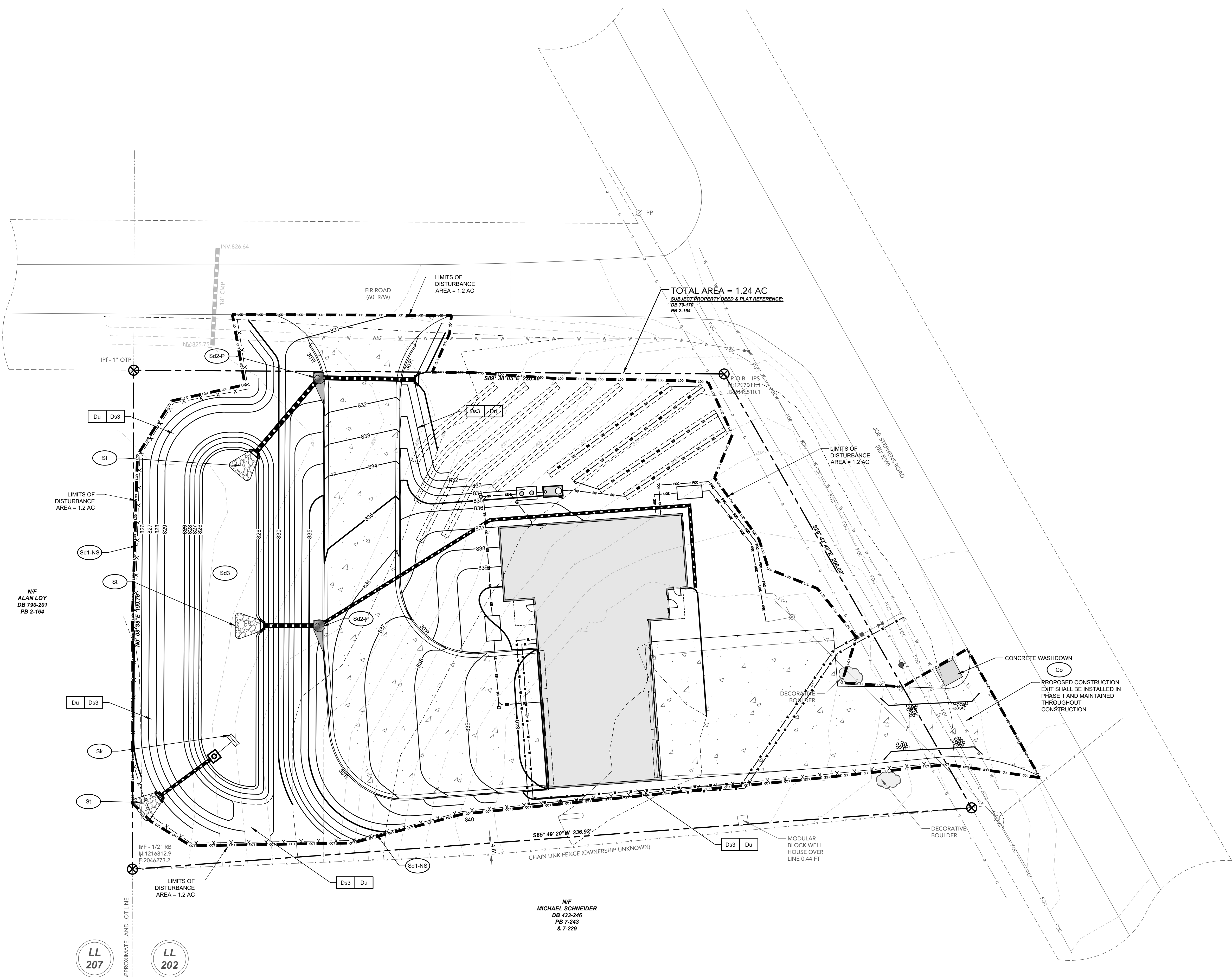
PHASE 2 & 3 SEDIMENT STORAGE CALCULATIONS:
 Drainage Area = 1.27 Ac
 Disturbed area = 1.2 Ac
 Required Sed. Storage = 1.2 Ac * 67 CY/Ac = 80.4 CY
 Sed. Storage Provided by the following BMPs (See notes for calculation formulas):
 - Silt Fence Storage = Length of silt fence * 0.216 CY/LF = 550.5 LF * 0.216 CY/LF = 118.9 CY
 - Temporary Sediment Basin = 0.9 Ac.
 Sediment Storage Required = 0.9 Ac * 67 CY/Ac = 60.3 CY
 Total Volume of BMPs = 118.9 CY + 60.3 CY = 179.2 CY

NOTE:
CONSTRUCTION DISTURBED AREA SHOWN ON E&S PLAN. ALL ADDITIONAL DISTURBED AREAS SHALL BE UP GRADIENT OF THE PROPOSED BMPs. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL BMPs THROUGHOUT CONSTRUCTION AND PREVENT SEDIMENT FROM MIGRATING DOWN GRADIENT AT ALL TIMES.



SHEET TITLE:	E&S PLAN PHASE 2
PROJECT NAME:	HEARD COUNTY
SHEET NUMBER:	C 8.2
PROJECT NUMBER:	23001HCG
DATE:	01.16.24

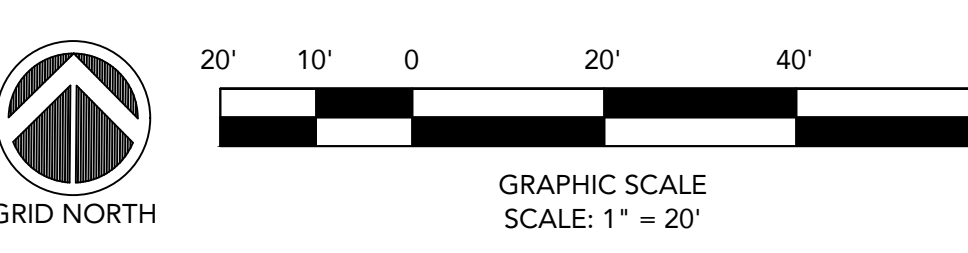
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LOCATION MAP
SCALE: N.T.S.

SOIL AND EROSION CONTROL NOTES	
DEVELOPER/OWNER	HEARD COUNTY BOARD OF COMMISSIONERS 201 PARK AVENUE FRANKLIN, GA 30217
24-HOUR CONTACT	FELICIA ADAMS 706-675-3821
PROJECT DESCRIPTION: THE PROJECT INCLUDES THE CONSTRUCTION AND INSTALLATION OF A FIRE STATION WITH ALL DRIVEWAYS AND UTILITIES REQUIRED.	
EXISTING CONDITIONS: EXISTING LAND IS COMPRISED OF AN EXISTING FIRE STATION.	
TOTAL TRACT:	1.24 AC
DISTURBED AREA:	1.2 AC
CRITICAL AREAS: THERE ARE NO CRITICAL AREAS ON SITE. ALL SLOPES STEEPER THAN 3:1 SHALL HAVE EROSION CONTROL MATTING INSTALLED. THERE ARE NO STATE WATERS WITHIN 200 FEET OF THE PROJECT SITE. THERE ARE NO WETLANDS LOCATED ON OR WITHIN THE PROJECT LIMITS.	
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9. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 7 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.	
10. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED WITH PERMANENT SEED AND MULCH. AFTER THE ENTIRE SITE IS STABILIZED, ALL ACCUMULATED SEDIMENT WILL BE REMOVED AND DISPOSED OF PROPERLY AND ALL PERIMETER SEDIMENT CONTROLS WILL BE REMOVED.	
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EROSION CONTROL LEGEND	
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)
Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)
Ds3	DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)
Du	DUST CONTROL
Ss	SLOPE STABILIZATION
Co	CONSTRUCTION EXIT
Sd1-NS	SILT FENCE NON-SENSITIVE
St	RIPRAP OUTLET PROTECTION
Sd2-F	INLET PROTECTION (SILT FENCE)
Sd2-P	INLET PROTECTION (PIGS IN A BLANKET)
Sk	FLOATING SURFACE SKIMMER
Sd3	TEMPORARY SEDIMENT BASIN



PROJECT AREA	
THERE ARE NO STATE WATERS WITHIN 200 FEET OF THE PROJECT SITE.	
THERE ARE NO WETLANDS LOCATED ON OR WITHIN THE PROJECT LIMITS.	
DESCRIPTION: Existing land is comprised of an existing fire station. The proposed project includes the construction of a new fire station.	
CRITICAL AREAS: There are no critical areas on site. All slopes steeper than 3:1 shall have erosion control matting installed.	
PHASE 2 & 3 SEDIMENT STORAGE CALCULATIONS: Drainage Area = 1.27 Ac Disturbed area = 1.1 Ac Required Sed. Storage = 1.2 Ac * 67 CY/Ac = 80.4 CY Sed. Storage Provided by the following BMPs (See notes for calculation formulas): - Silt Fence Storage = Length of silt fence * 0.216 CY/LF = 550.5 LF * 0.216 CY/LF = 118.9 CY - Temporary Sediment Basin = 0.9 Ac. Sediment Storage Required = 0.9 Ac * 67 CY/Ac = 60.3 CY Total Volume of BMPs = 118.9 CY + 60.3 CY = 179.2 CY	
NOTE: CONSTRUCTION DISTURBED AREA SHOWN ON E&S PLAN. ALL ADDITIONAL DISTURBED AREAS SHALL BE UP GRADIENT OF THE PROPOSED BMPs. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL BMPs THROUGHOUT CONSTRUCTION AND PREVENT SEDIMENT FROM MIGRATING DOWN GRADIENT AT ALL TIMES.	

REVISION BLOCK	ISSUE	REVISION DATE & DESCRIPTION
1	1	01.16.24 - CLIENT REVIEW
2	2	
3	3	
4	4	
5	5	
6	6	
7	7	
8	8	



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SITE DEVELOPMENT PLANS
 FOR
FIRE DEPARTMENT 5
 365 JOE STEPHENS ROAD - FRANKLIN, GA 30217

SHEET TITLE:
E&S PLAN PHASE 3

PROJECT NAME:
HEARD COUNTY

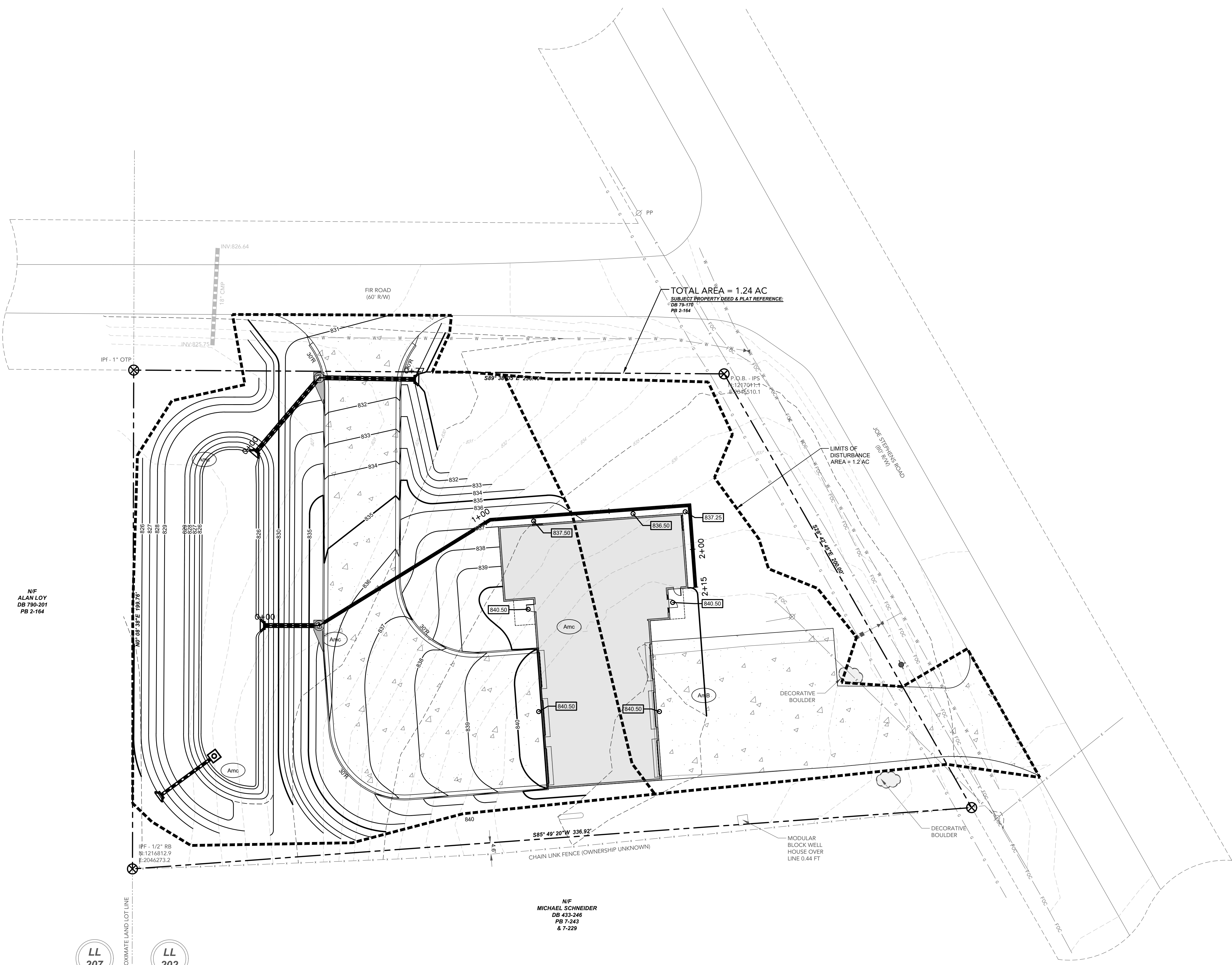
SHEET NUMBER:
C 8.3

PROJECT NUMBER:
23001HCG

DATE:
01.16.24

ENGINEER/DESIGNER NOT RESPONSIBLE FOR COST CHANGES DURING PRELIMINARY PHASE. BIDS & QUOTES SHALL BE BASED ON PLANS SETS LABELED 'ISSUE FOR CONSTRUCTION'.

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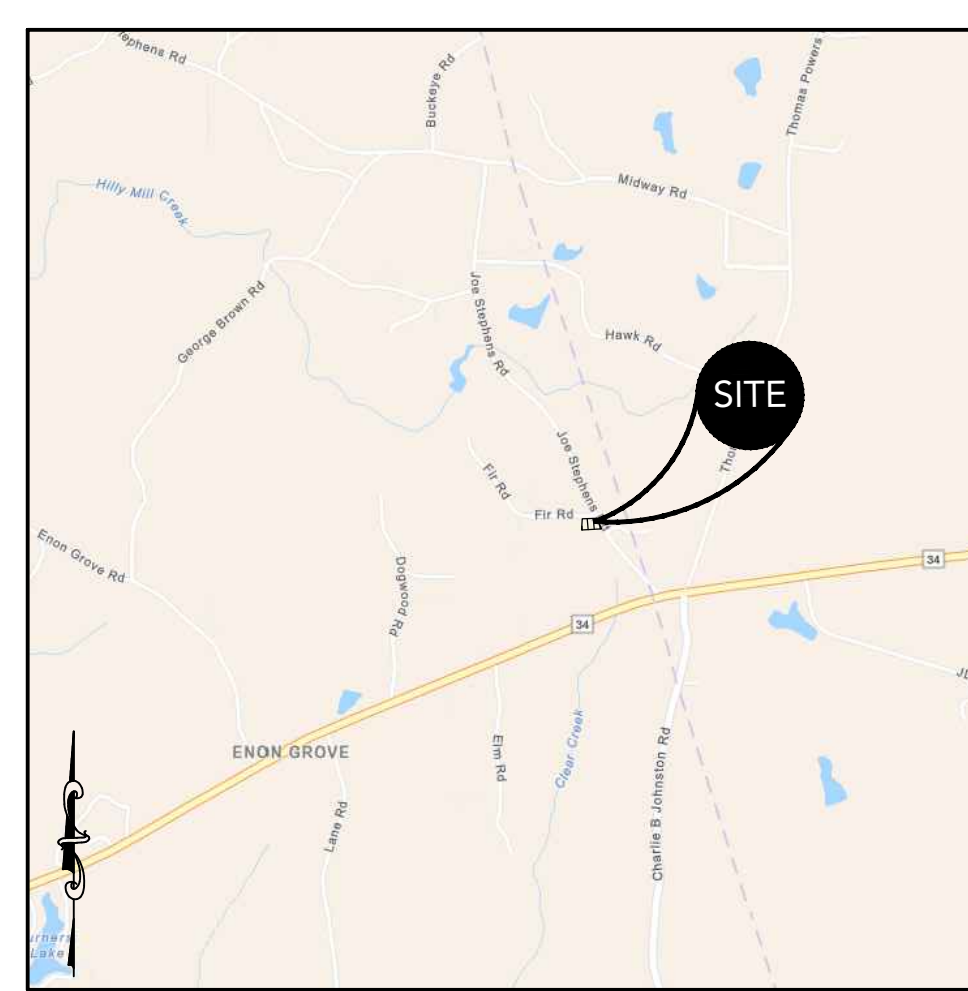
TOTAL AREA = 1.24 AC
SUBJECT PROPERTY DEED & PLAT REFERENCE:
DB 78-170
PB 2-164

N/F
ALAN LOY
DB 790-201
PB 2-164

N/F
MICHAEL SCHNEIDER
DB 433-246
PB 7-243
& 7-229

LL
207

LL
202



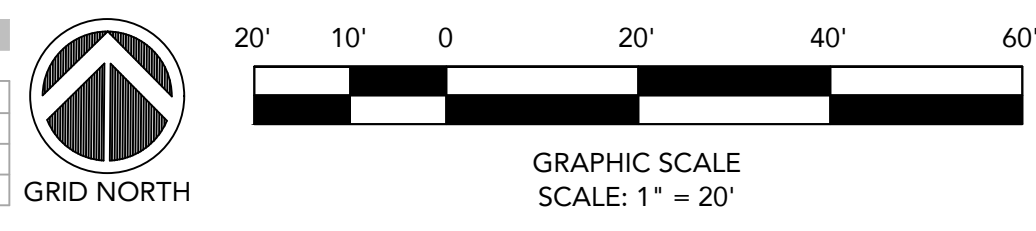
LOCATION MAP
SCALE: N.T.S.

PROJECT INFORMATION	
DRAWING SET PREPARED BY: CARTER ENGINEERING CONSULTANTS, INC. 1010 COMMERCE DRIVE BOGART, GA 30622 CONTACT: BRIAN KIMSEY, P.E. BRIAN@CARTERENGINEERING.COM	OWNER/DEVELOPER: HEARD COUNTY BOARD OF COMMISSIONERS 201 PARK AVENUE FRANKLIN, GA 30217 CONTACT: FELICIA ADAMS 706-675-3821 FELICIAADAMS@HEARDCOUNTYGA.COM

SITE INFORMATION	
JURISDICTION	HEARD COUNTY
PROPERTY LOCATION	365 JOE STEPHENS ROAD FRANKLIN, GA 30217
PARCEL NUMBER	0052 0069
CURRENT ZONING	GC (GENERAL COMMERCIAL DISTRICT)
PROPOSED ZONING	GC (GENERAL COMMERCIAL DISTRICT)
OVERLAY DISTRICT	NONE
EXISTING USE	FIRE STATION
PROPOSED USE	FIRE STATION
BUFFERS REQUIRED	*20' LANDSCAPE BUFFER (NORTH)
REQUIRED BUILDING SETBACKS	FRONT: 60-FEET SIDE: 15-FEET REAR: 15-FEET
MAXIMUM LOT COVERAGE	*10%
MINIMUM LANDSCAPE	*10%
MAXIMUM BUILDING HEIGHT	40-FEET
SANITARY SEWER SERVICE	ON SITE SANITARY
WATER SERVICE	HEARD COUNTY
FEMA FLOOD INSURANCE RATE MAP NO.	13149C0180C
FEMA FIRM DATE	08/19/2010
FEMA SFHA ZONE	ZONE X

UNDERGROUND UTILITY DISCLAIMER:
THE UNDERGROUND UTILITIES SHOWN HEREON HAVE BEEN LOCATED FROM FIELD INFORMATION AND/OR EXISTING DRAWINGS. CARTER ENGINEERING DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. CARTER ENGINEERING DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. THE OWNER, HIS/HER EMPLOYEES, CONSULTANTS AND CONTRACTORS SHALL HEREBY DISTINCTLY UNDERSTAND THAT THE CARTER ENGINEERING IS NOT RESPONSIBLE FOR THE CORRECTNESS OR SUFFICIENCY OF THIS INFORMATION REGARDING THE UNDERGROUND UTILITIES AND STRUCTURES RELATED TO UNDERGROUND UTILITIES SHOWN HEREON. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD LOCATE ALL UTILITIES PRIOR TO COMMENCING WORK AND NOTIFY ENGINEER IF A DISCREPANCY IS FOUND. SPECIFICALLY, THE CONTRACTOR SHALL VERIFY THE INVERT ELEVATIONS OF ALL EXISTING STORM AND SANITARY SEWER STRUCTURES PRIOR TO COMMENCEMENT OF STORM AND SANITARY SEWER CONSTRUCTION.

HAPPING UNIT & SOIL NAME	SOIL TEXTURE	PERMEABILITY (K)	STRUCTURE	PERMEABILITY (IN/HR)
AsA - Appling sandy loam	Sandy loam	0.24	Granular	1.43
AmC - Appling sandy loam	Sandy loam	0.24	Granular	1.43



REVISION BLOCK	ISSUE	REVISION DATE & DESCRIPTION
1	1	01.16.24 - CLIENT REVIEW
2	2	
3	3	
4	4	
5	5	
6	6	
7	7	
8	8	



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SITE DEVELOPMENT PLANS
FOR
FIRE DEPARTMENT 5
365 JOE STEPHENS ROAD - FRANKLIN, GA 30217

SHEET TITLE:
SOILS MAP

PROJECT NAME:
HEARD COUNTY

SHEET NUMBER:
C 8.4

PROJECT NUMBER:
23001HCG

DATE:
01.16.24

ENGINEER/DESIGNER NOT RESPONSIBLE FOR COST CHANGES DURING PRELIMINARY PHASE. BIDS & QUOTES SHALL BE BASED ON PLAN SETS LABELED "ISSUE FOR CONSTRUCTION".

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MULCHING RATES

Ds1

USE DRY STRAW OR DRY HAY OF GOOD QUALITY AND FREE OF WEEDS SEEDS. DRY STRAW OR HAY SHALL BE APPLIED AT THE RATE OF 2.5 TONS PER ACRE. MULCHING SHALL BE USED. MULCH WILL BE SPREAD UNIFORMLY WITHIN 24 HOURS AFTER SEEDING. MULCH SHALL BE USED DURING MONTHS THAT GRASSING SHOULD NOT BE APPLIED BASED ON THE SCHEDULE BELOW.

TEMPORARY AND PERMANENT VEGETATION SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 6 OF "THE MANUAL FOR EROSION AND SEDIMENTATION CONTROL".

TEMPORARY GRASSING

Ds2

TEMPORARY GRASSES SHALL CONSIST OF SOWING A QUICK GRASS SUCH AS RYE, BROWN TOP MILLET, OR GRASS SUITABLE TO THE AREA AND SEASON. LIME AND FERTILIZER PER SOILS TEST. MULCH IS NOT REQUIRED BUT SHOULD BE USED AS DICTATED BY SITE CONDITIONS. TEMPORARY GRASSING IS REQUIRED WHEN DISTURBED AREA IS LEFT EXPOSED MORE THAN 14 DAYS.

SPECIES	RATE	PLANTING DATES
BROWN MILLET	40#/ACRE	APRIL - JUNE
WEeping LOVEGRASS	35#/ACRE	AUGUST-DECEMBER
ANNUAL LESPEDEZA	5#/ACRE	FEBRUARY-JUNE
SUDAN GRASS	40#/ACRE	FEBRUARY-APRIL
WHEAT	20#/ACRE	APRIL-AUGUST
		SEPTEMBER-DECEMBER

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 OR SOIL MATERIALS, FERTILIZER IS NOT REQUIRED. FOR SOILS WITH VERY LOW FERTILITY, 200 TO 700 POUNDS OF 10-10-10 FERTILIZER OR THE EQUIVALENT PER ACRE (12-16 LBS./1,000 SQ. FT.) SHALL BE APPLIED. FERTILIZER SHOULD BE APPLIED BEFORE LAND PREPARATION AND INCORPORATED WITH A DISK, RIPPER, OR CHISEL.

PERMANENT GRASSING

Ds3

PERMANENT GRASSING SHALL CONSIST OF GROUND PREPARATION, LIME, FERTILIZATION, MULCHING AND SEEDING. THE GROUND SHALL BE PREPARED BY PLOWING AND DISKING TO A DEPTH NOT LESS THAN 4". FERTILIZER AND LIME SHALL BE UNIFORMLY MIXED INTO THE GROUND, WITH FERTILIZER AT THE RATE OF 1500#/ACRE AND LIME AT THE RATE OF 2000#/ACRE. THE GROUND SHALL BE FINISHED OFF SMOOTH AND UNIFORM AND BE FREE OF ROCKS, CLUMPS, ROOTS AND WEEDS. FERTILIZER SHALL BE APPLIED PER THE TABLE BELOW. WEATHER PERMITTING, SEEDING SHALL BE DONE WITHIN 24 HOURS OF FERTILIZER APPLICATION. SEED SHALL BE UNIFORMLY SPREAD AT THE RATES SHOWN BELOW. MULCHING IS REQUIRED AND SHALL BE DONE IMMEDIATELY AFTER SEEDING. MULCH SHALL BE UNIFORMLY APPLIED OVER SEEDING AREAS AND SHALL ACHIEVE 75% TO 100% SOIL COVER. THE RATE OF APPLICATION SHALL BE DOUBLED ON SLOPES STEEPER THAN 4:1.

GRASSING RATES AND SCHEDULE

SPECIES	RATE	PLANTING DATES
TALL FESCUE	50#/ACRE	MARCH-APRIL/ AUGUST-OCTOBER
SERICEA LESPEDEZA (D)	60#/ACRE	MARCH-JUNE
WEeping LOVE GRASS	5#/ACRE	MARCH-JUNE
UNHILLED BERMAUDA	10#/ACRE	JAN-FEBRUARY/DEC
HILLED BERMAUDA	10#/ACRE	MARCH-JUNE
BAHIA	60#/ACRE	APRIL-MARCH

(a) USE A MINIMUM OF 40# SCARIFIED SEED. REMAINDER MAY BE UNSCARIFIED, CLEAN HILLED SEED.
(b) USE EITHER COMMON SERALA, OR INTERSTATE SERICEA LESPEDEZA.

LIMING RATES

Agricultural lime is required at the rate of one to two tons per acre unless soil tests indicate otherwise. Graded areas require lime application. If lime is applied within six months of planting permanent perennial vegetation, additional lime is not required. Agricultural lime shall be within the specifications of the Georgia Department of Agriculture.

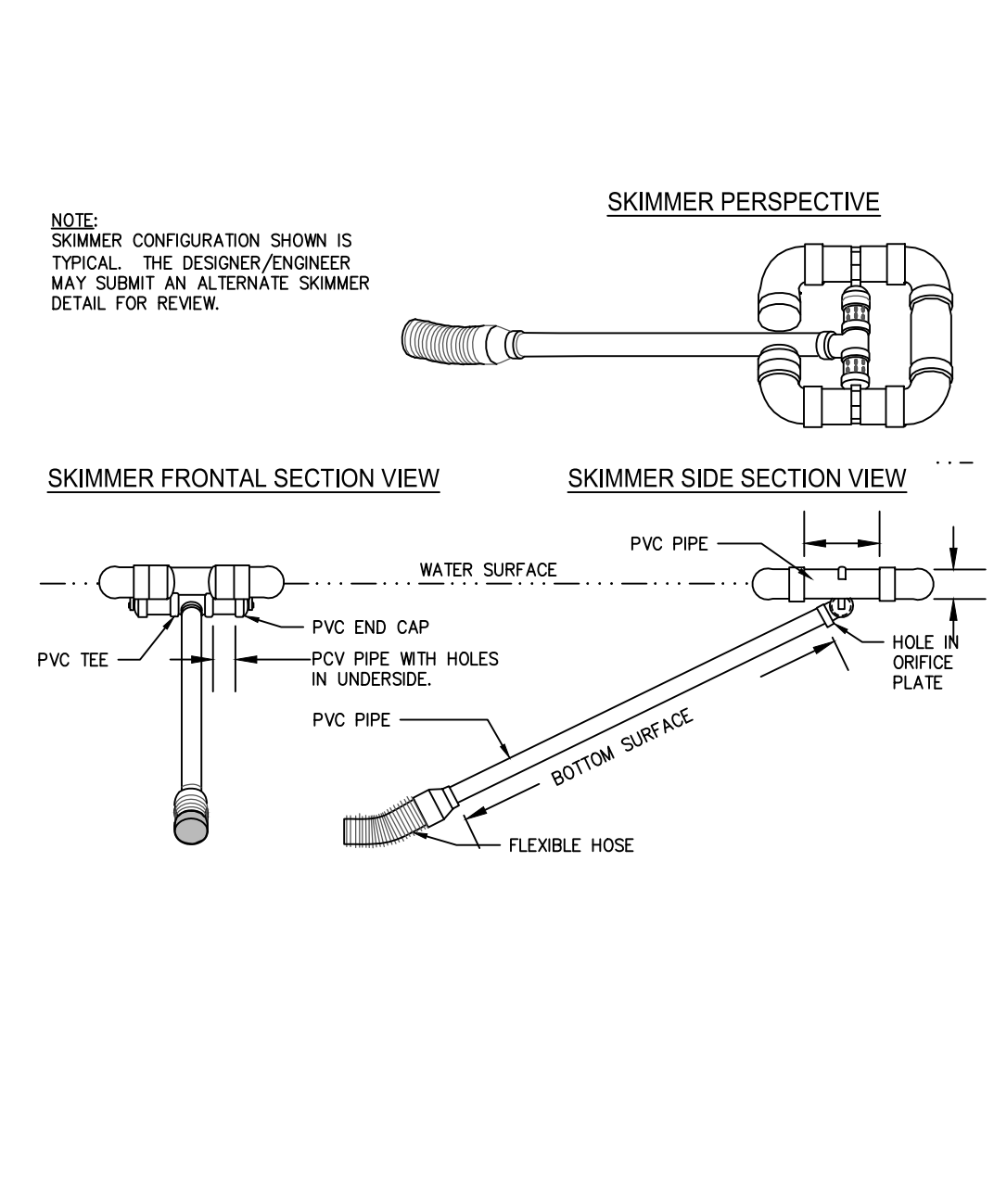
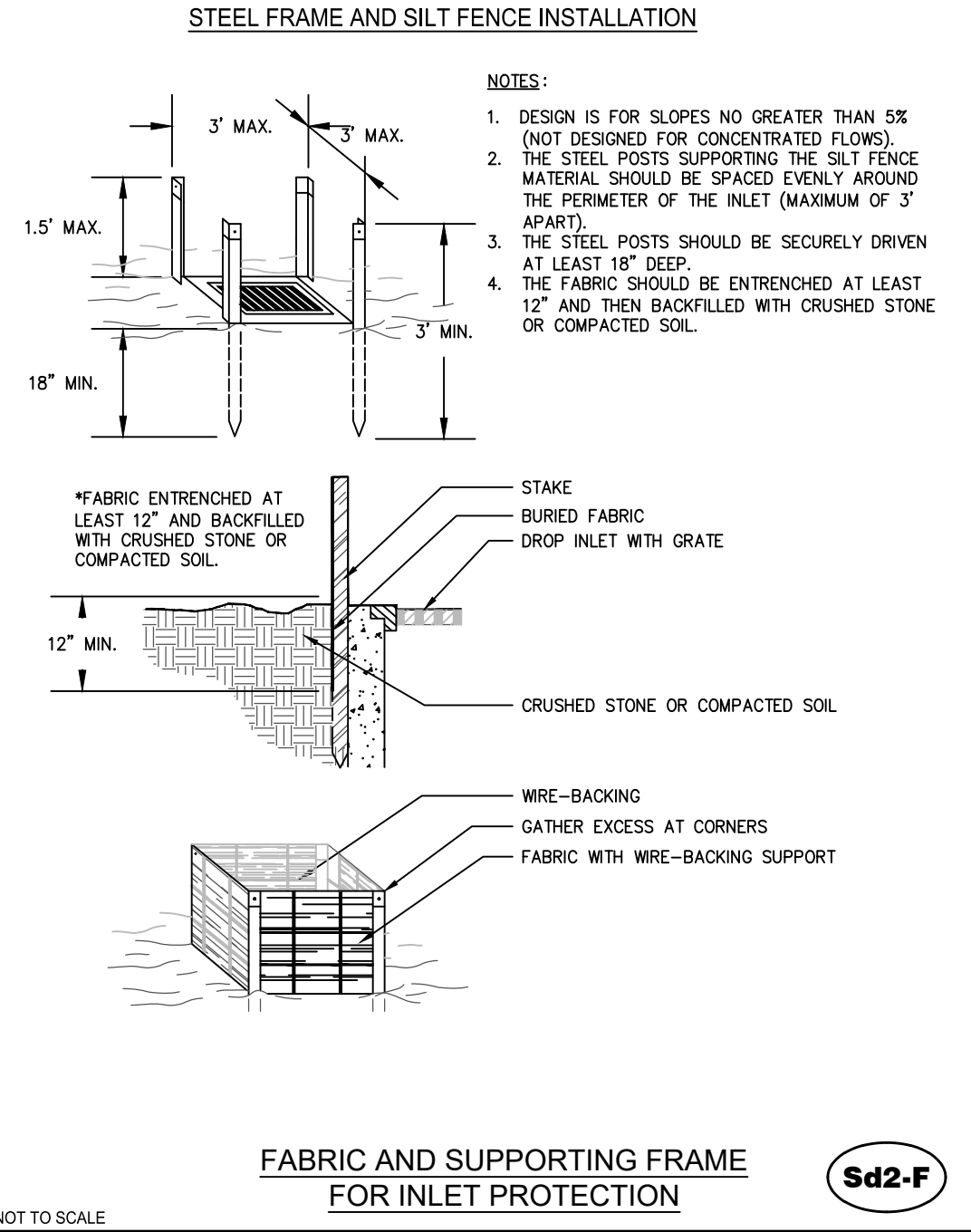
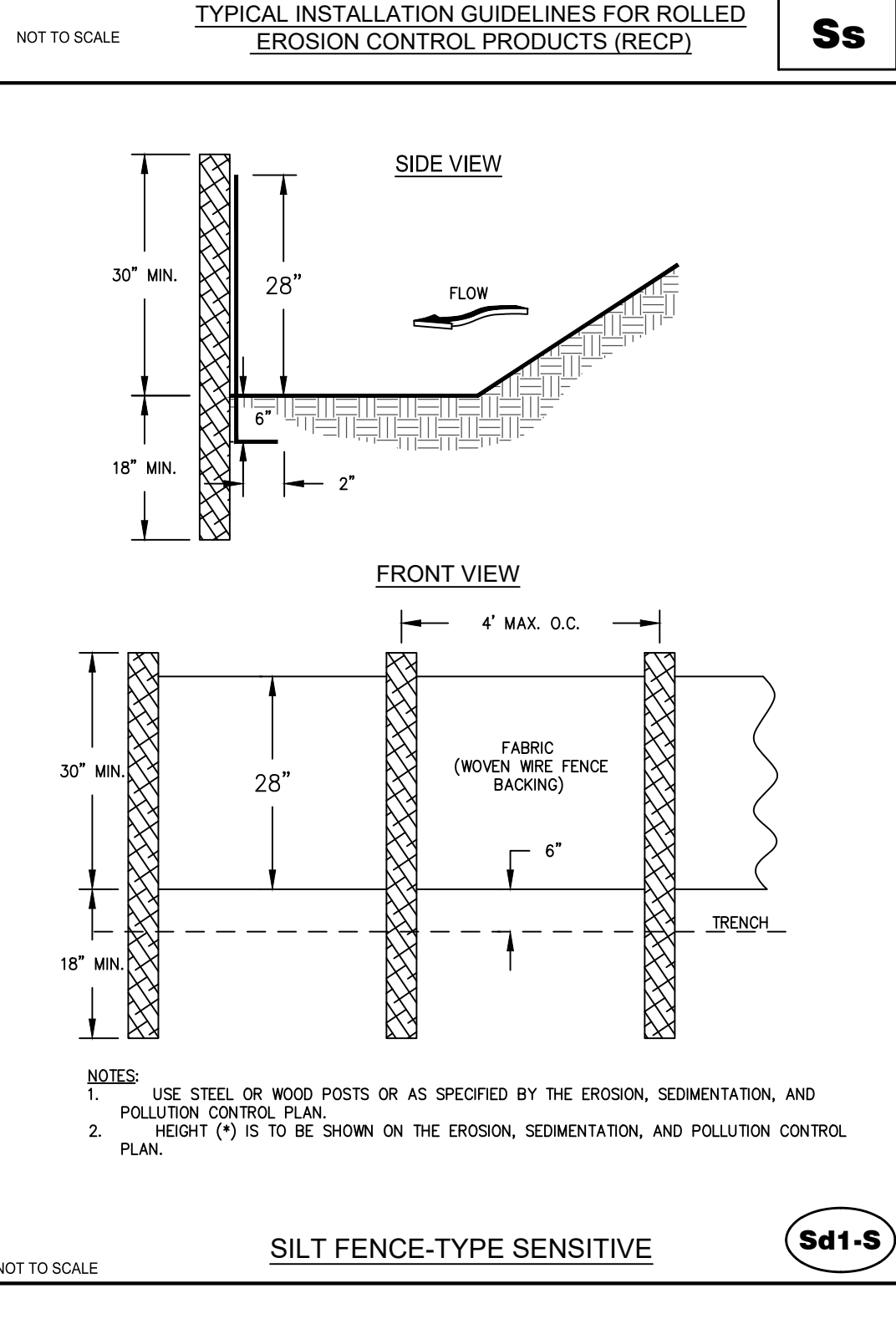
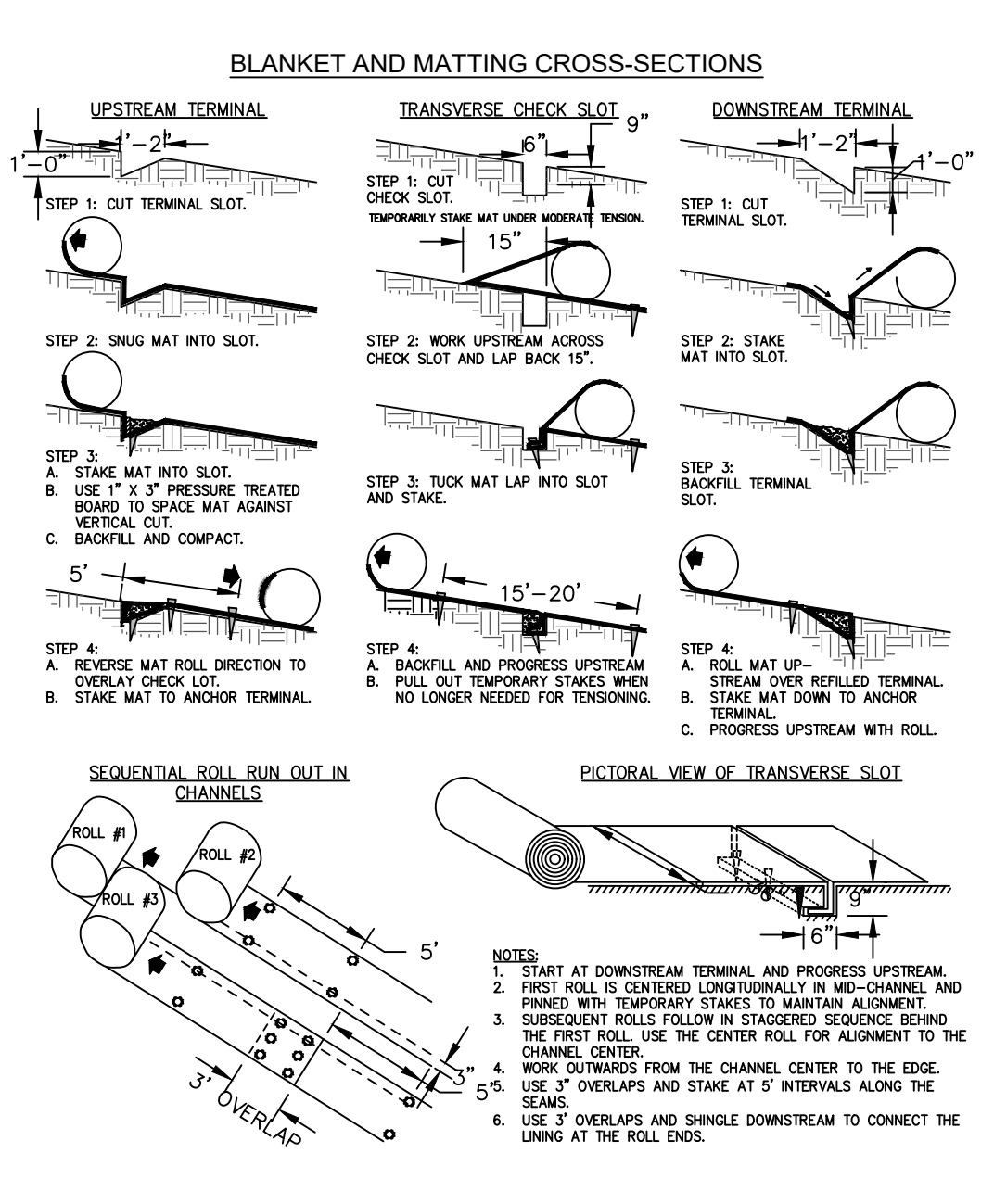
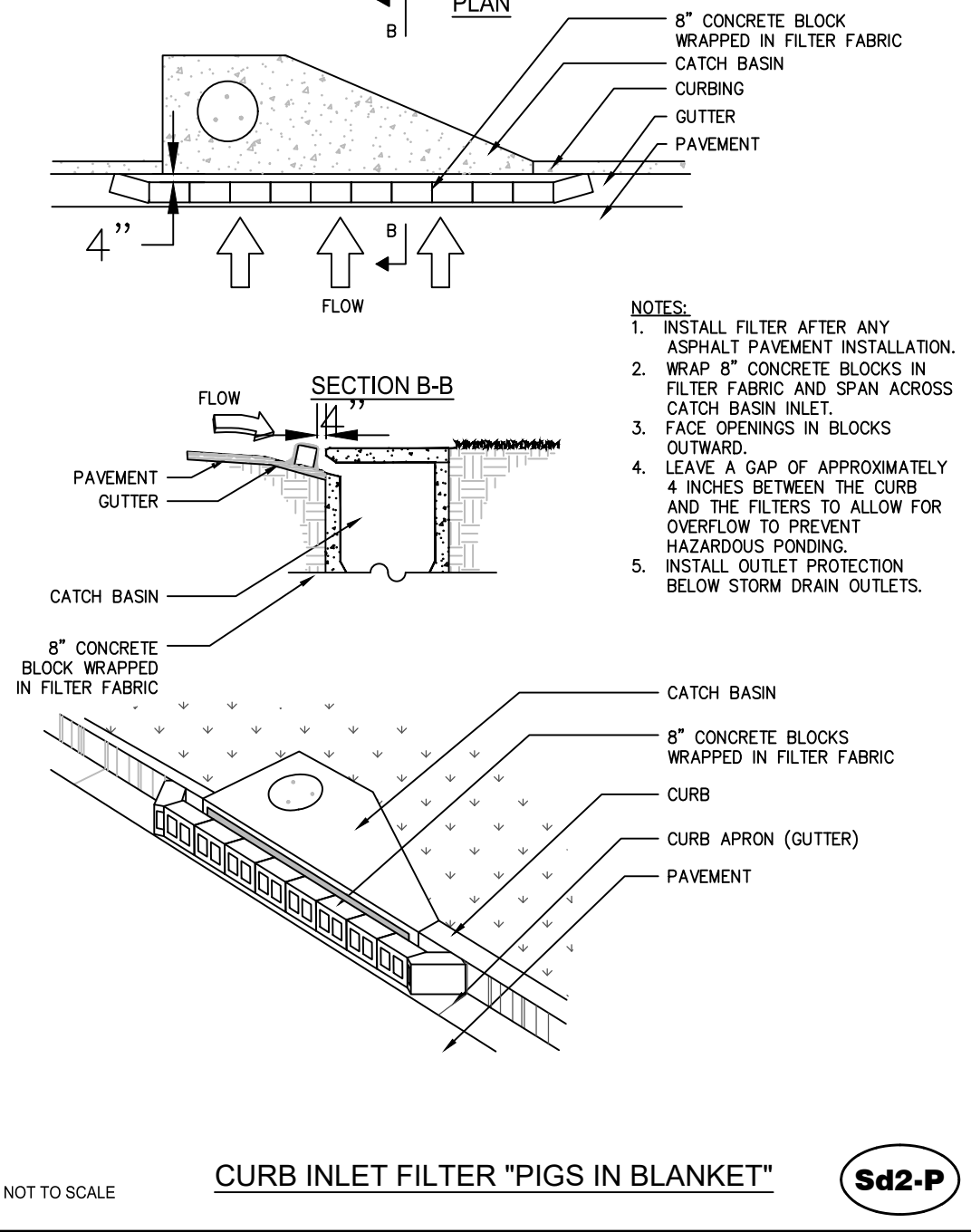
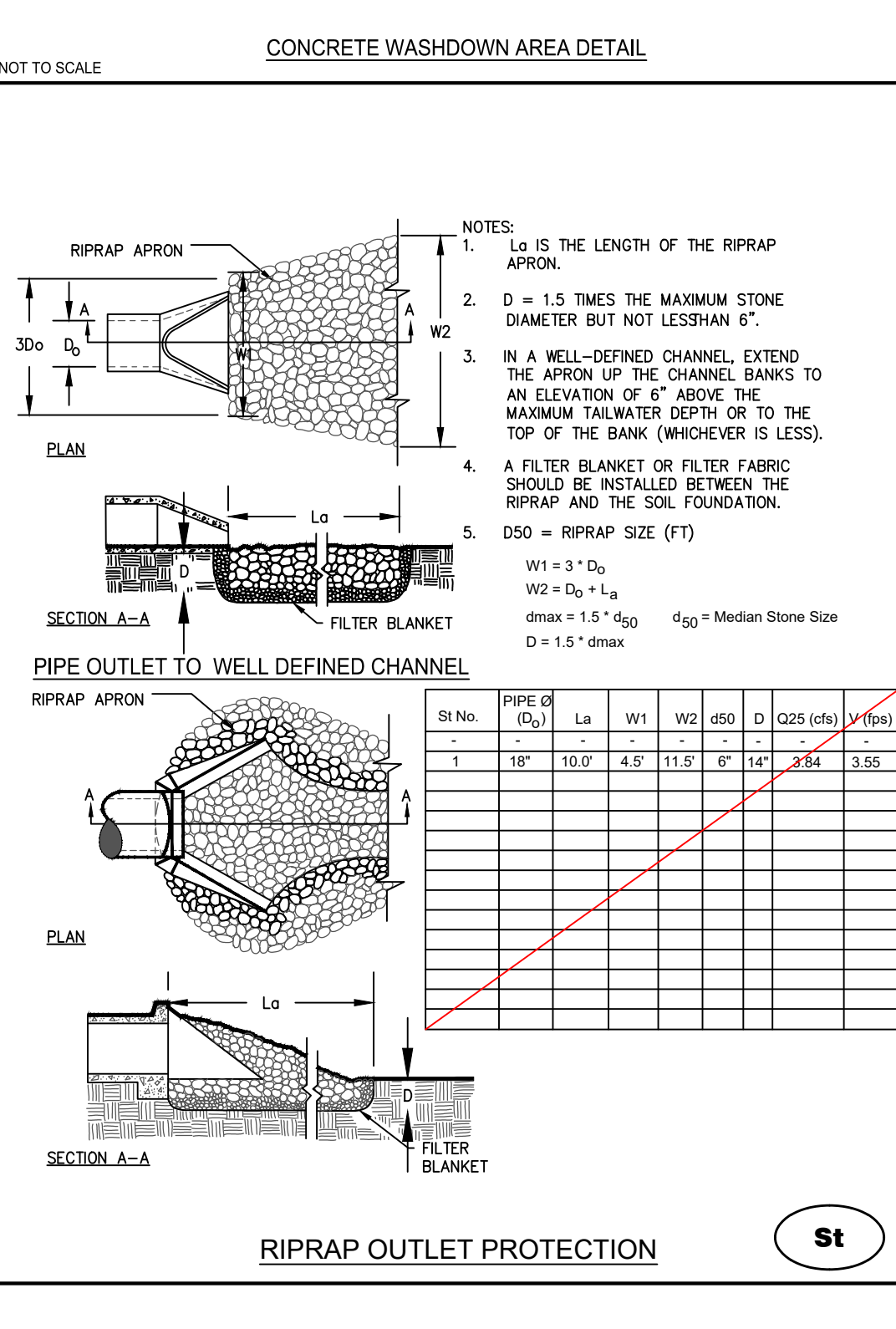
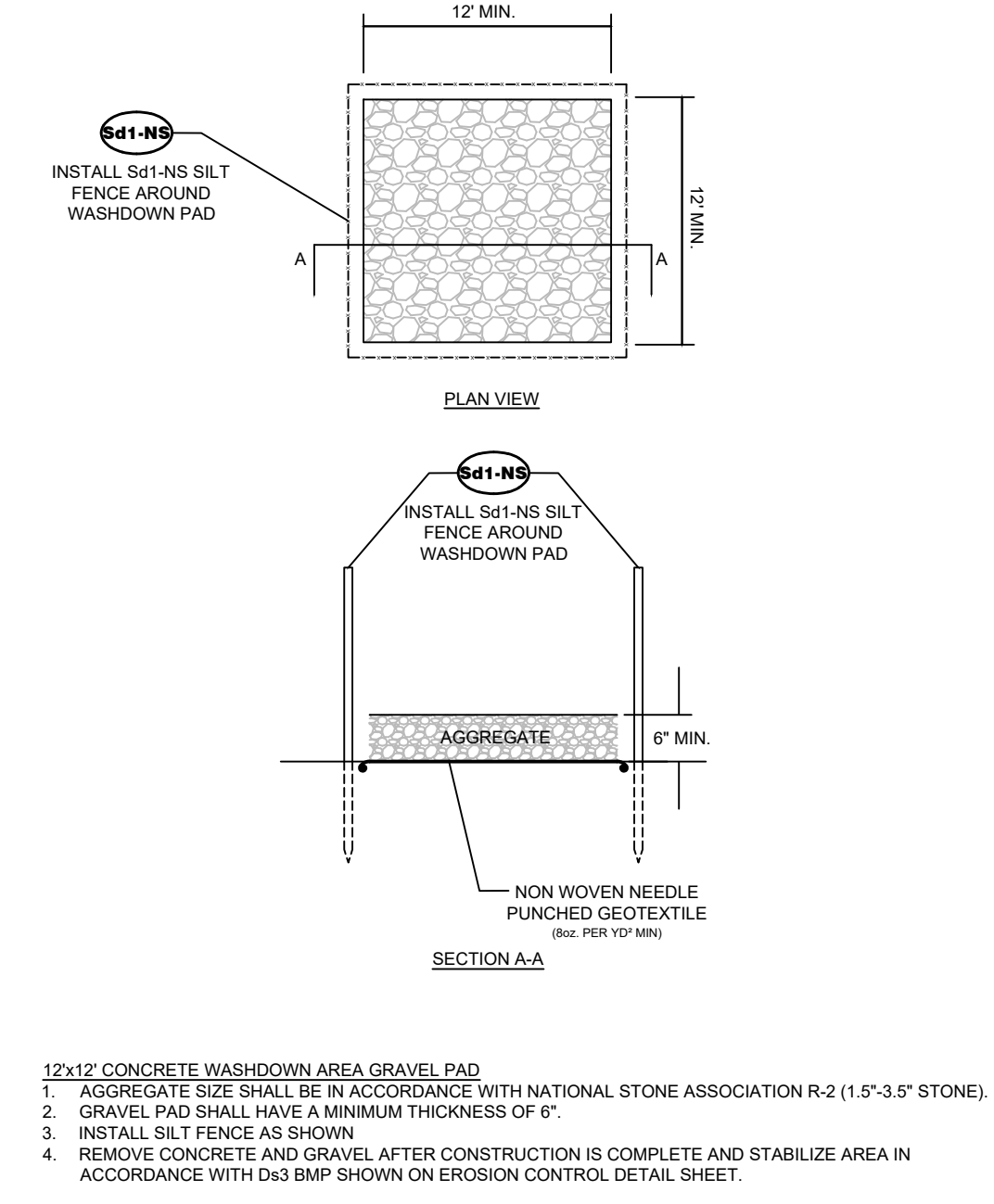
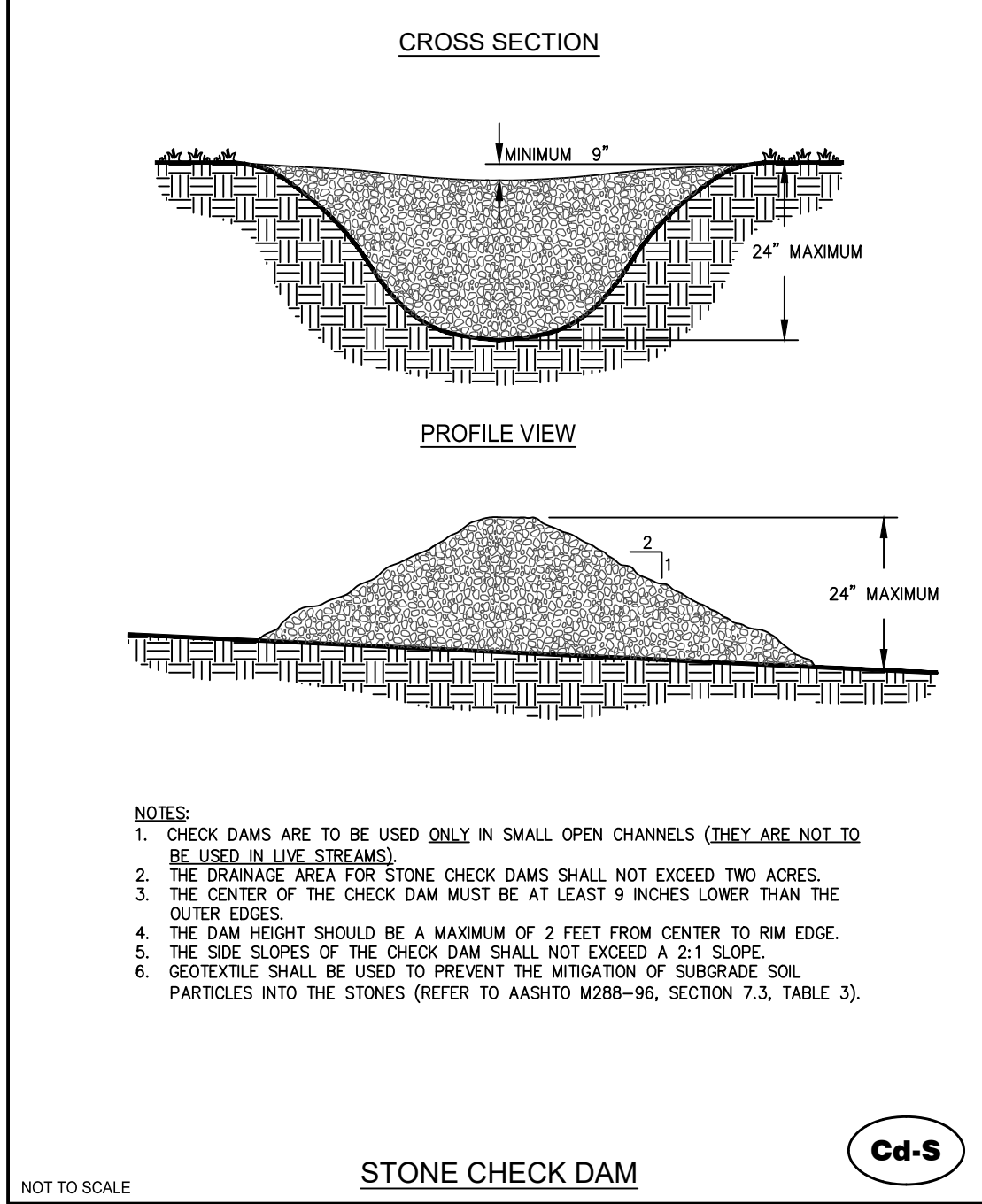
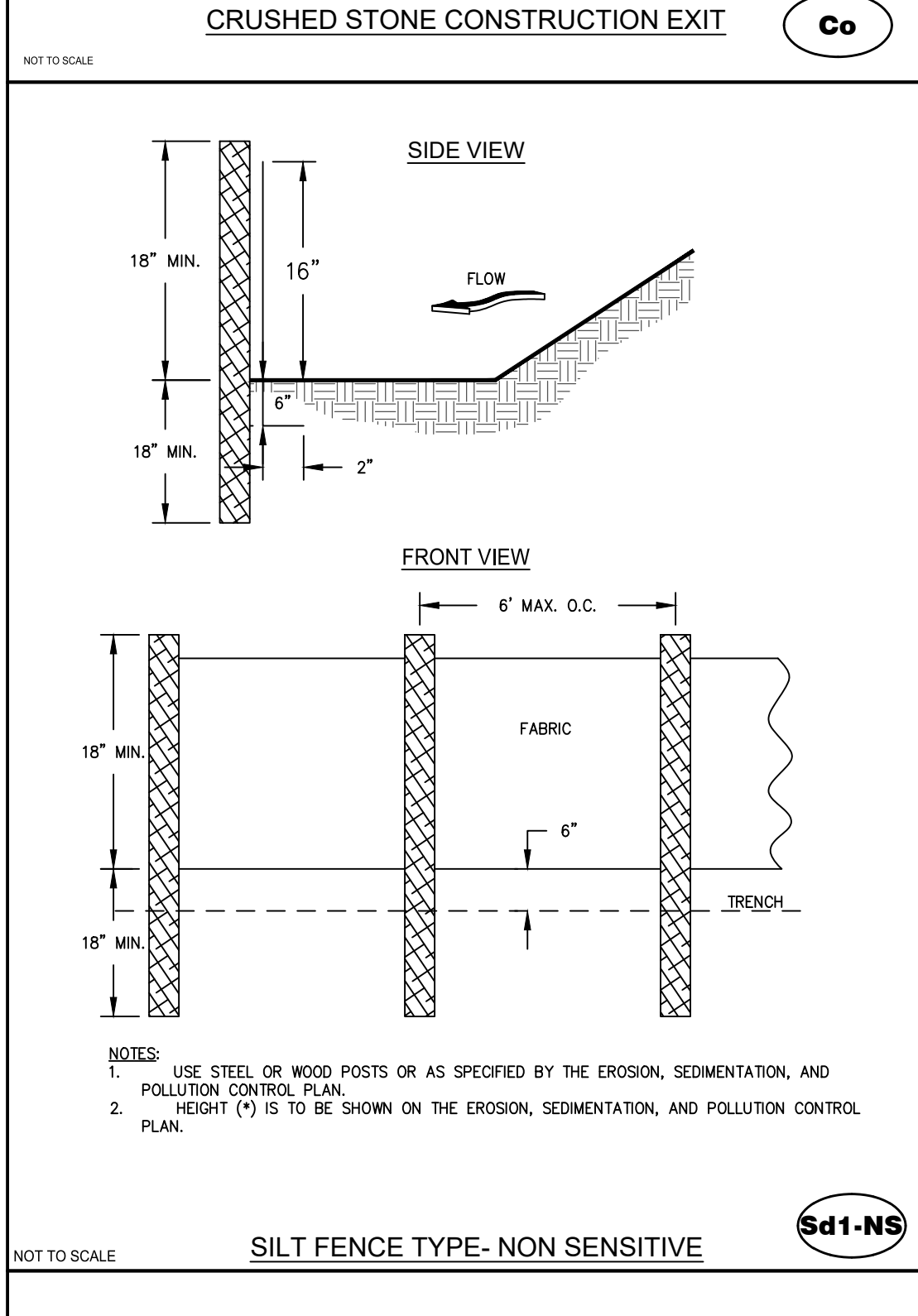
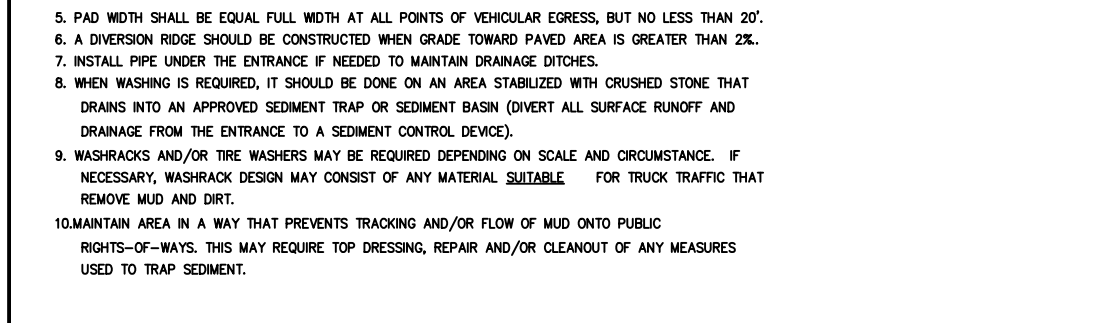
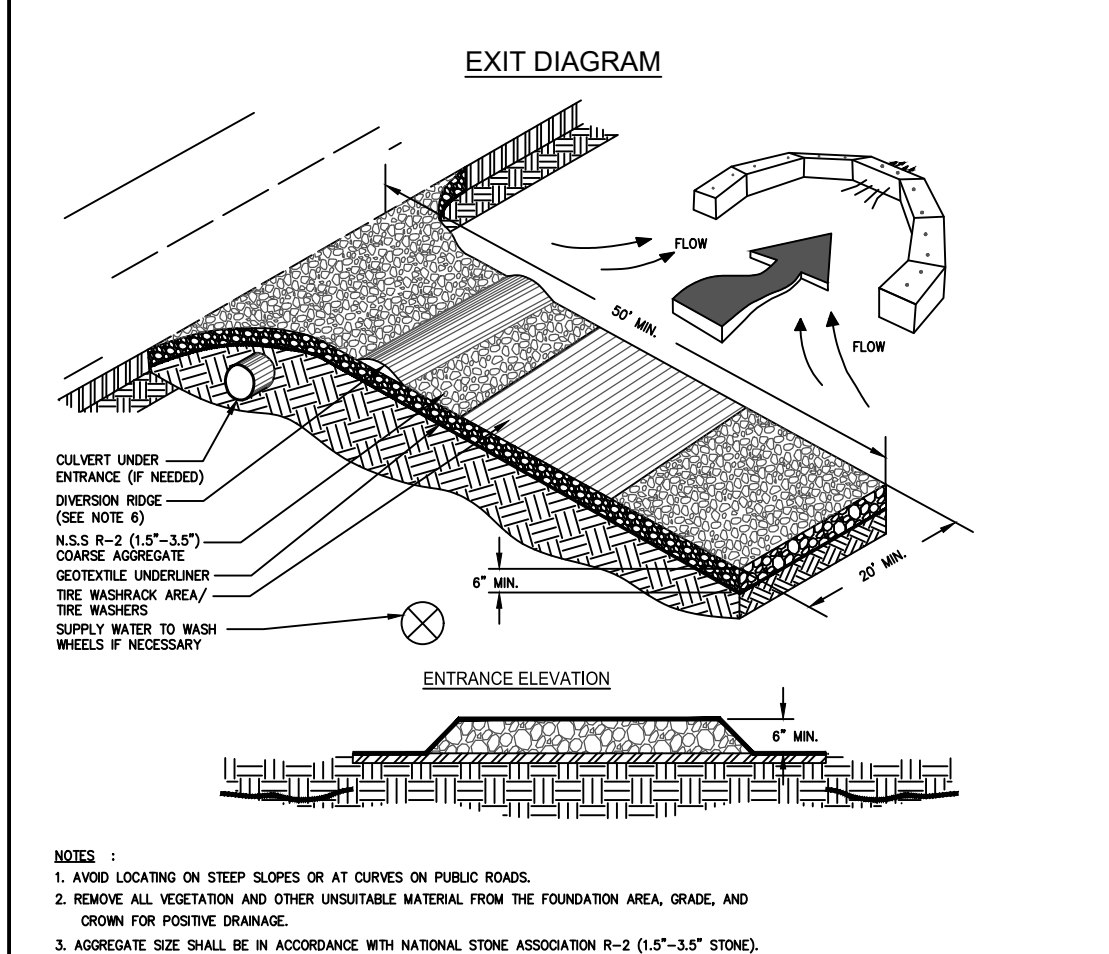
FERTILIZER REQUIREMENTS

TYPES OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	TOP DRESSING RATE
1. Cool season grasses	First	6-12-12	1500 lbs./ac.	50-100 lbs./ac. 1/2'
	Second Maintenance	6-12-12 10-10-10	1000 lbs./ac. 400 lbs./ac.	30
2. Cool season grasses and legumes	First	6-12-12	1500 lbs./ac.	0-50 lbs./ac. 1'
	Second Maintenance	0-10-10 0-10-10	1000 lbs./ac. 400 lbs./ac.	-
3. Ground Covers	First	10-10-10	1300 lbs./ac. 3'	-
	Second Maintenance	10-10-10 10-10-10	1300 lbs./ac. 3' 1100 lbs./ac.	-
4. Shrub Lespedeza	First	0-10-10	700 lbs./ac.	-
	Second Maintenance	0-10-10	700 lbs./ac. 4'	-
5. Warm season grasses	First	6-12-12	1500 lbs./ac.	50-100 lbs./ac. 2' 6"
	Second Maintenance	6-12-12 10-10-10	800 lbs./ac. 400 lbs./ac.	50-100 lbs./ac. 2' 30 lbs./ac.
6. Warm season grasses and legumes	First	6-12-12	1500 lbs./ac.	50 lbs./ac. 6'
	Second Maintenance	0-10-10 0-10-10	1000 lbs./ac. 400 lbs./ac.	-

DUST CONTROL

Du

APPROVED TACKIFIERS AND BINDERS	PRODUCT OR TRADE NAME	RECOMMENDED APPLICATION RATE
Finn A500 HYDRO-STIK	40 lb./ac.	
	Agro Track MP	PMR
CONWED CON-TAC	40 lb./ac.	
	Eco Tak-OP/Eco Tak-SATI PMR	PMR
Emulsified Asphalt	100 gal. of SS-1h or CSS-1h and 100 gal. of water per ton of mulch	
	Hercules Solloc-E	PMR
HYDRO-BOND	35 lb./ac.	
	RMB-plus	80-120 lb./ac.
TACPAC GT	PMR	
	TERRA-MULCH	PMR
TACKING AGENT III	PMR	



REVISION BLOCK	ISSUE	REVISION DATE & DESCRIPTION
1	1	01.16.24 - CLIENT REVIEW
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4	4	
5	5	
6	6	
7	7	
8	8	

GEORGIA REGISTERED PROFESSIONAL ENGINEER
 No. 26703
 Brian Kinsley
 GSVCC Level II Certification
 No. 00000003007

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SITE DEVELOPMENT PLANS FOR FIRE DEPARTMENT 5
 365 JOE STEPHENS ROAD - FRANKLIN, GA 30217

SHEET TITLE:
EROSION CONTROL DETAILS

PROJECT NAME:
HEARD COUNTY

SHEET NUMBER:
C 8.5

PROJECT NUMBER:
23001HCG

DATE:
01.16.24

ENGINEER/DESIGNER NOT RESPONSIBLE FOR COST CHANGES DURING PRELIMINARY PHASE. BIDS & QUOTES SHALL BE BASED ON PLAN SETS LABELED "ISSUE FOR CONSTRUCTION".

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TEMPORARY SEDIMENT BASIN DESIGN SHEET

Computed by _____ Date _____
Checked by _____ Date _____

Project Name: FIRE STATION 5
Basin No.: POND
Total area draining to basin = 1.27 acres
Detached area draining to basin = 0.9 acres

Volume

1. Compute minimum required storage volume (V_r).
V_r = 67 cfs * 1.27 acres = 85.09 cy
2. Compute volume of basin at clean-out (V_c).
V_c = 22 cfs * 1.27 acres = 27.94 cy
3. Determine elevation corresponding to minimum required storage volume, V_r.
Minimum riser crest elevation = 827.60 ft (determined by stage/storage relationship) USE CREST ELEV OF RISER
4. Determine elevation corresponding to clean-out volume, V_c.
Clean-out elevation = 825.55 ft (determined by stage/storage relationship)
Note: Clean-out elevation shall be clearly marked on the riser or marked by a post near the riser.
5. Compute length of riser.
Riser length = Minimum elevation of riser crest - Lowest elevation of pipe at riser
Riser length = _____ ft USE CREST ELEV
Riser length = _____ ft EXISTING RISER

Stormwater Runoff

6. Compute peak discharge from a 2-yr, 24-hr storm event.
Q_p = 3.02 cfs (Attach runoff computation sheet)
7. Compute peak discharge from a 25-yr, 24-hr storm event.
Q₂₅ = 8.99 cfs (Attach runoff computation sheet)

Surface Area Configuration Design

8. Compute minimum basin surface area (SA_m).
SA_m = 0.01 ac/cfs * Q_p
SA_m = 0.01 ac/cfs * 3.02 cfs
SA_m = _____ ac
9. Check available area at elevation of riser crest.
Available area = _____ sf (determined by stage/storage relationship)
Available area SA_a > SA_m Yes _____ No _____
If "no", refer to Figure 6-22.2 for baffle designs. Note any required baffles on EASC plan and include calculations and details for baffles.
10. Compute required length to achieve 2:1 L:W ratio.
Average width = _____ ft
Required length = 2 * average width
Required length = 2 * _____ ft
Available length = _____ ft
2:1 L:W ratio satisfied? Yes _____ X _____ No _____
If "no", refer to Figure 6-22.2 for baffle designs. Note any required baffles on EASC plan and include calculations and details for baffles.

Principal Spillway (sa)

11. Determine maximum principal spillway capacity.
Q_{sa} = Q_p = 3.02 cfs FROM HYDROLOGY STUDY
12. Compute the vertical distance between the centerline of the outlet pipe and the emergency spillway crest (H).
H = _____ ft
13. Compute the total pipe length of the principal spillway, L, using Figure 6-22.3.
L = [A - (B*Q²) / (2*W*Z)] + T + E = [_____ - (_____ * _____) / (2 * _____ * _____)] + _____ + _____
L = _____ ft

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TEMPORARY SEDIMENT BASIN DESIGN SHEET

Project Name _____
Page 2

14. Determine diameter of principal spillway (D_p) and flow through the principal spillway (Q) from Table 6-22.1 using H and Q_{sa}.
D_p = _____ in. Q = _____ cfs (value directly from table)
15. Compute actual flow through the principal spillway, using Table 6-22.1 to determine the correction factor for pipe length, L.
C_f = Q * correction factor = _____ cfs * _____
C_f = _____ cfs
16. Compute riser diameter (D_r).
D_r = 1.5 * D_p
D_r = _____ in.
D_r = _____ in.
17. Compute trash rack diameter (D_t).
D_t = 1.4 * D_r
D_t = _____ in.
D_t = _____ in.
18. Determine the minimum distance between the riser crest and the emergency spillway crest, h, using Table 6-22.2
D_p and Q_{sa}.
h = _____ ft

Concrete Riser Base Design

19. Determine the volume of concrete per vertical foot of riser height needed, from Table 6-22.3 to prevent flotation.
Required volume of concrete per vertical foot = _____ cwt/ft
20. Compute total volume of concrete required.
Total required volume of concrete = Required volume per vertical foot * Riser length
Total required volume of concrete = _____ cwt * _____ ft
Total volume of concrete required = _____ cwt
21. Assume base thickness, B (usually 18").
B = _____ ft
22. Compute required surface area.
Required surface area = Total volume required / B
Required surface area = _____ cwt / _____ ft
Required surface area = _____ sf
23. Compute riser base length (l) and width (w) (assume square base).
l = w = (required surface area)^{0.5}
l = w = _____ ft = 12in/ft * _____ ft = _____ in

Anti-Seep Collar Design

24. Determine if anti-seep collar is required. If yes, to any of the following conditions, a collar is required:
The settled height of the dam is greater than 15 feet.
The principal spillway diameter (D_p) is smooth pipe larger than 8".
The principal spillway diameter (D_p) is corrugated metal pipe larger than 12".
If "no", refer to Figure 6-22.2 for baffle designs.
25. Determine size of anti-seep collar required.
18-inch projection (for heads (H) less than or equal to 10 feet).
24-inch projection (for heads (H) greater than 10 feet).

Emergency Spillway (sa)

26. Compute minimum capacity of emergency spillway (Q_e).
Q_e = Q₂₅ - Q_p = _____ cfs - _____ cfs
Q_e = _____ cfs

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TEMPORARY SEDIMENT BASIN DESIGN SHEET

Project Name _____
Page 3

27. Determine stage (H₁), bottom width (b), velocity (V) and minimum exit slope (S) using Table 6-22.4 and Q_e.
H₁ = _____ ft b = _____ ft V = _____ fps S = _____ %
28. Actual entrance channel slope, S_e = _____ %
29. Actual exit channel slope, S_e = _____ %
Note: If S_e is steeper than S (from Table 6-22.4), then the velocity in the exit channel will increase.

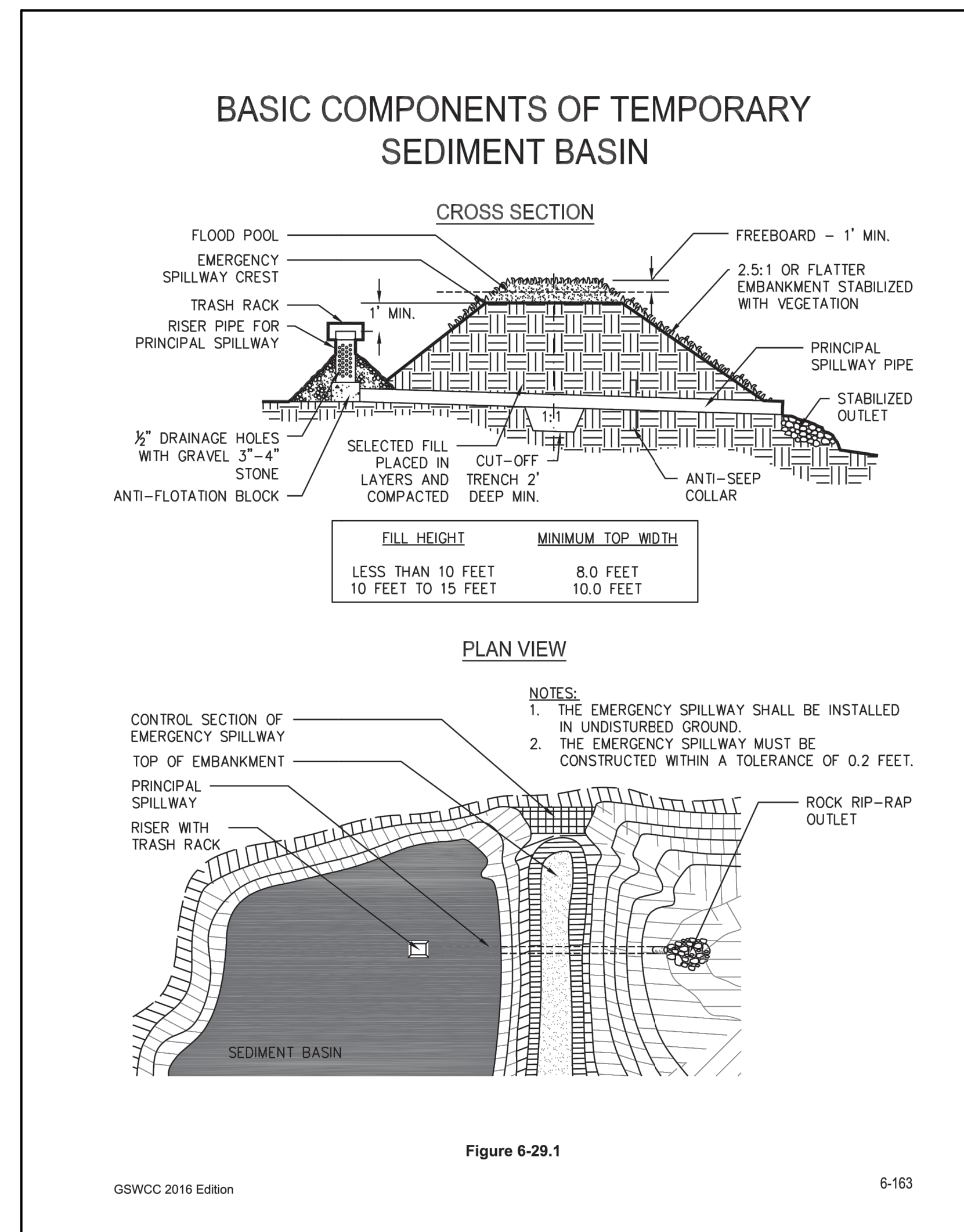
a. Calculate new exit velocity (V₁).
V₁ = V (S_e/S)^{0.5} = _____ fps * (_____ / _____)^{0.5}
V₁ = _____ fps
Note: Refer to Channel Stabilization (Ch) to determine the proper lining for the emergency spillway.
Grass _____ Concrete _____ Rip-rap _____

Design Elevations

30. Riser crest elevation = 827.60 ft
31. Compute minimum emergency spillway crest elevation.
Minimum emergency spillway crest elevation = Riser crest elevation + h
Minimum emergency spillway crest elevation = 827.60 ft + 1.00 ft
Minimum emergency spillway crest elevation = 828.60 ft
32. Determine design high water elevation.
Design high water elevation = Minimum emergency spillway crest elevation + Stage elevation (H_p)
Design high water elevation = _____ ft + _____ ft
Design high water elevation = _____ ft
33. Determine elevation of top of dam.
Elevation of top of dam = Design high water elevation + 1 ft freeboard
Elevation of top of dam = _____ ft + 1 ft
Elevation of top of dam = 829.63 ft TOP OF DAM SET PER HYDRAFLOW ANALYSIS

PLEASE NOTE THAT DESIGN VALUES DETERMINED BY THIS SHEET REPRESENT THE MINIMUM REQUIREMENTS FOR A TEMPORARY SEDIMENT BASIN.

6-233 GSWC (Amended: 2013)



TO BE SHOWN ON THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN

When a FLOATING SURFACE SKIMMER is used, show the following information along with each sediment pond, trap or basin being used on the site:

1. Pond, trap or basin size, length* (top and bottom) width* (top and bottom) and depth = STAGE STORAGE = 13,571 CF
2. Time to Drain (hrs) = 24
3. Skimmer Dimensions (orifice and head size)** 3"
4. Manufacturer's name J.W. FAIRCLOTH & SON, Inc. (www.FairclothSkimmer.com)

*feet, ** inches

sk FLOATING SURFACE SKIMMER

CALCULATE SKIMMER SIZING:

BASIN VOLUME = 13,571 C.F.
DAYS TO DRAIN = 2 DAYS
RELEASE RATE = 0.0785 cfs

**USE 3.0" ORIFICE (SEE CALCULATIONS BELOW)

ORIFICE EQUATION: Q = C * A * √2gh
ORIFICE COEF. (C) = 0.6
AREA (A) = 0.0491 S.F.
GRAVITY (g) = 32.2 ft/sec²
HEAD (h) = 3 in.

3" SKIMMER FLOW RATE (Q) = 0.1182 cfs

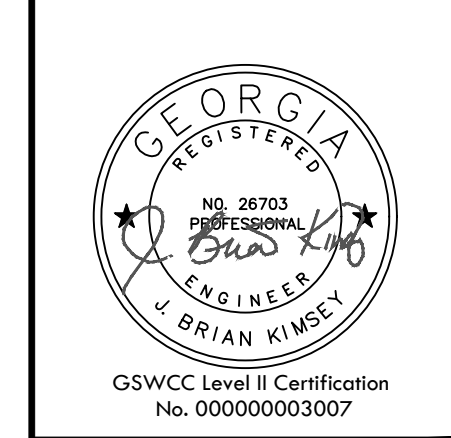
*feet, ** inches

TRASH GUARD & MAINTENANCE ROPE
All floating surface skimmer designs include a trash guard and maintenance rope in order to prevent and remove blockage from floating debris. Trash guards prevent larger debris from entering the skimmer that may cause internal blockage. The maintenance rope is used to remove trash and debris that accumulates on the outside of the trash guard. Ensure the maintenance rope is floatable.

SKIMMER PIT
Excavate a shallow pit filled with riprap under the floating surface skimmer to account for sediment that accumulates on the sediment basin bottom around the skimmer. The pit allows the skimmer to completely drain the basin. At a minimum, the pit has dimensions of 48 x 48 with a minimum depth of 2 ft. Ensure the bottom of the pit is lower than the invert of the outlet barrel from the riser. Floating Skimmers that have a loaded design that prevents the device from lodging in accumulated sediment do not require a skimmer pit.

MAINTENANCE
Inspect Floating Skimmers together with the Sediment Basin Inspections. Inspect the floating surface skimmer for any structural damage, clogging, or excessive sediment accumulation.
While draining the basin, the trash guard of the skimmer may clog with debris. Typically, a few jerks on the maintenance rope will clear the skimmer of debris and restore flow. If jerking the maintenance rope does not work, pull the skimmer to the embankment with the maintenance rope and manually remove all debris from the trash guard. An internal clog or blockage may require the device to be disassembled and repaired.
If the skimmer becomes stuck in the mud at the bottom of the basin it must be freed to allow for normal operation. This can typically be done by use of the maintenance rope.
Remove sediment deposits from the basin when approximately one-third of the storage volume has been lost to sediment accumulation or when the floating skimmer cannot settle low enough to drain the entire basin. Remove or pull the skimmer to a side embankment using the maintenance rope and remove sediment from:

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SITE DEVELOPMENT PLANS
 FOR
FIRE DEPARTMENT 5
365 JOE STEPHENS ROAD - FRANKLIN, GA 30217

SHEET TITLE:
EROSION CONTROL DETAILS

PROJECT NAME:
HEARD COUNTY

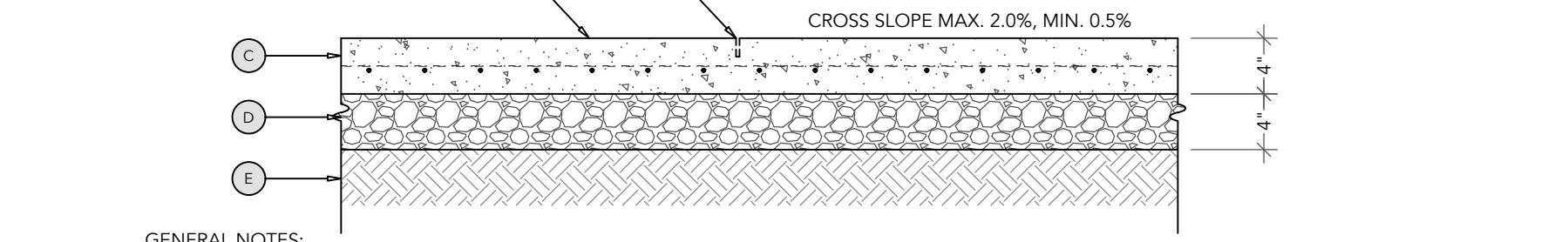
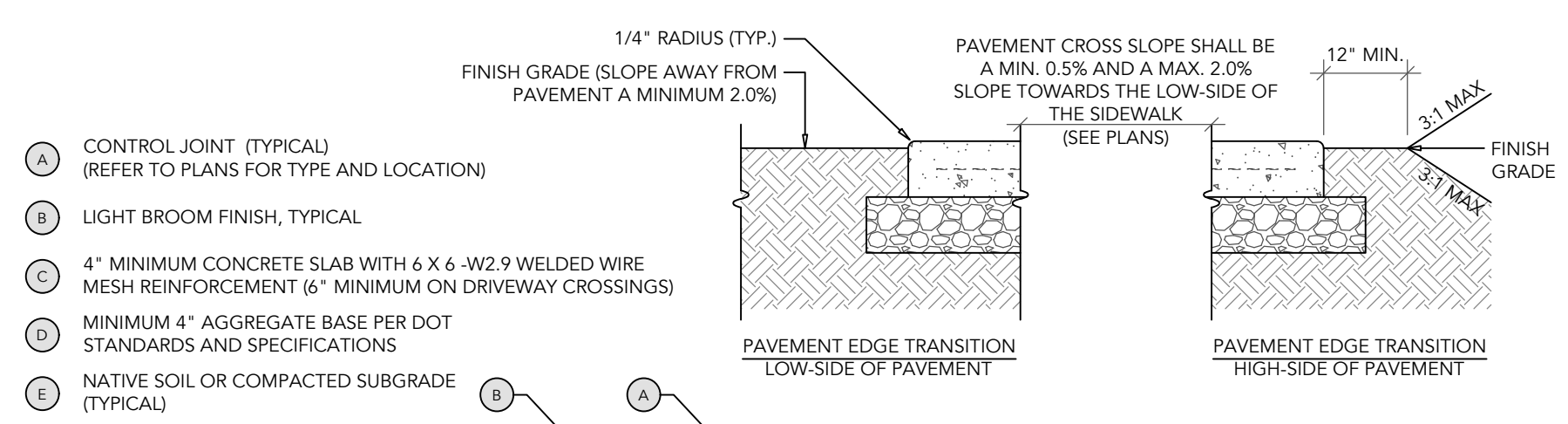
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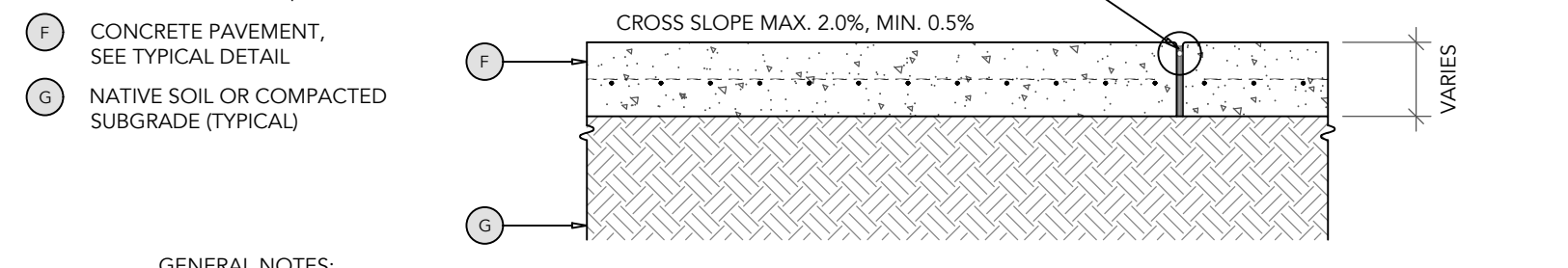
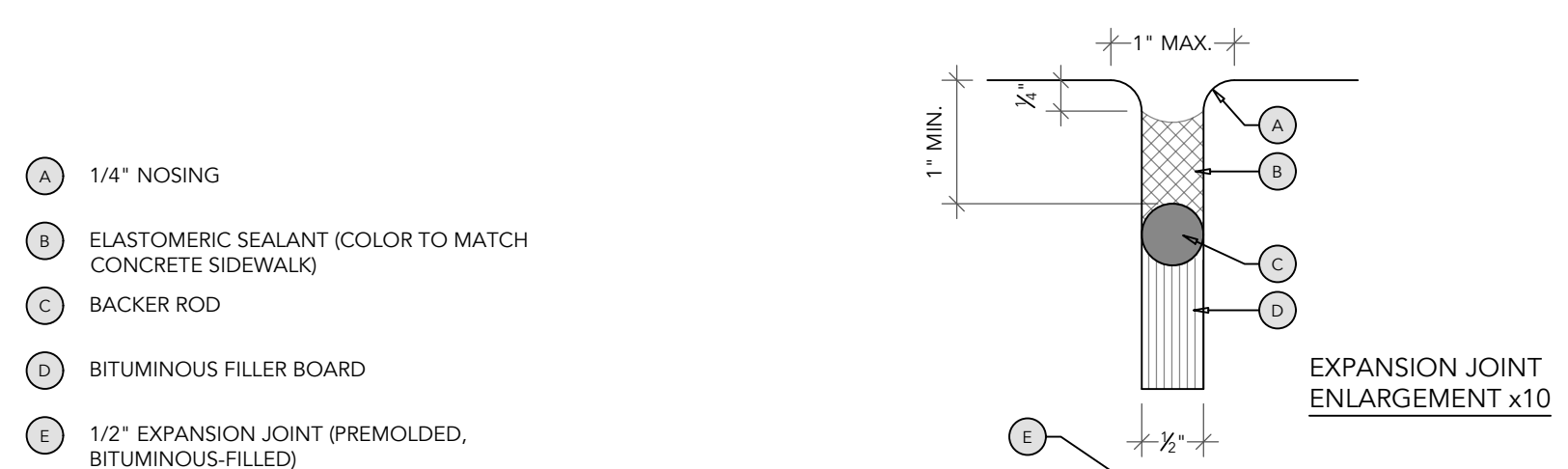
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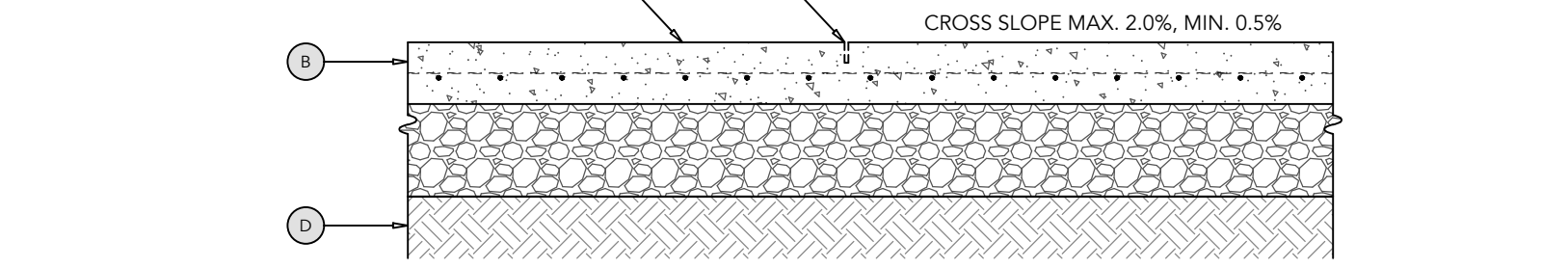
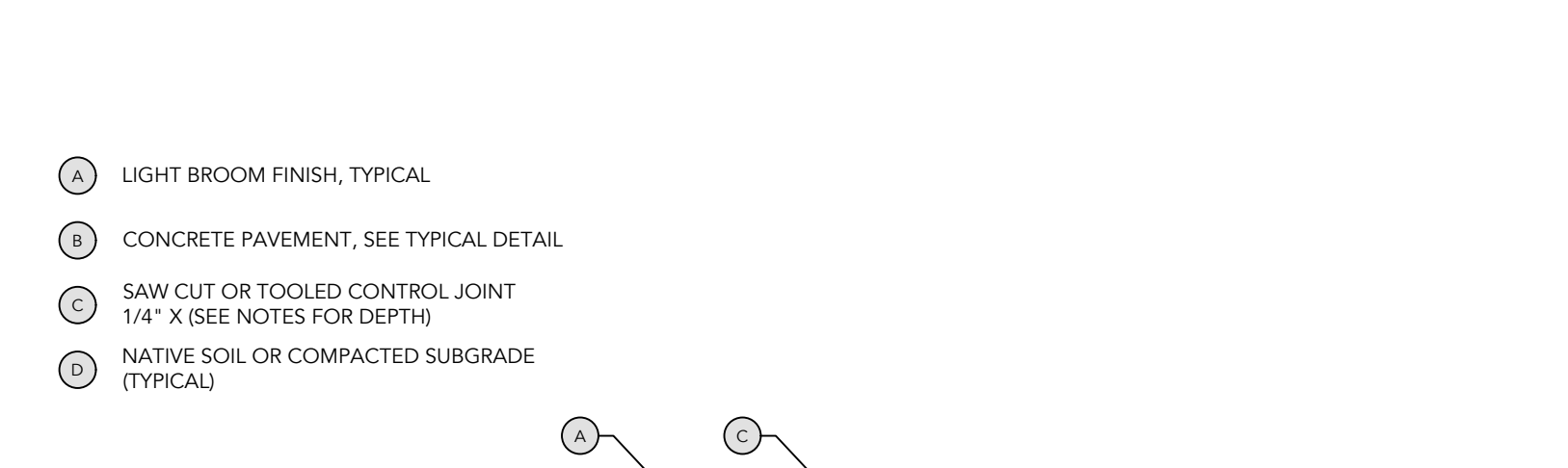
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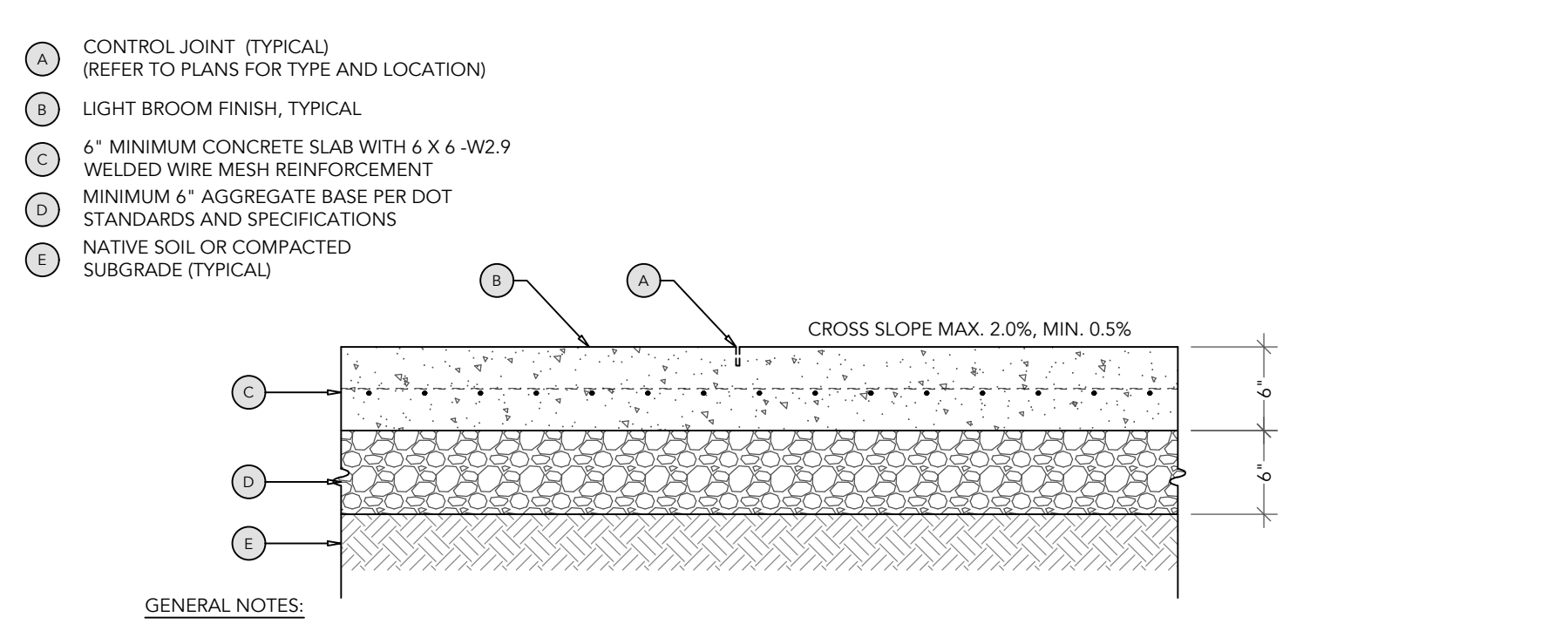
- 1 STANDARD DUTY CONCRETE PAVEMENT (TYPICAL)**
NTS
- (A) CONTROL JOINT (TYPICAL) (REFER TO PLANS FOR TYPE AND LOCATION)
 - (B) LIGHT BROOM FINISH, TYPICAL
 - (C) 4" MINIMUM CONCRETE SLAB WITH 6 X 6 -W2-9 WELDED WIRE MESH REINFORCEMENT (6" MINIMUM ON DRIVEWAY CROSSINGS)
 - (D) MINIMUM 4" AGGREGATE BASE PER DOT STANDARDS AND SPECIFICATIONS
 - (E) NATIVE SOIL OR COMPACTED SUBGRADE (TYPICAL)
- GENERAL NOTES:**
- CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 POUNDS PER SQUARE INCH (PSI).
 - SET REINFORCEMENT 1.5" TO 2" FROM SURFACE OF PAVING. W/M SHALL MAINTAIN 1.5" CLEARANCE FROM CONTRACTION JOINTS.
 - AGGREGATE MATERIAL USED AS BASE COURSE MUST COMPLY WITH THE GRADATION REQUIREMENTS ESTABLISHED BY THE STATE DEPARTMENT OF TRANSPORTATION. AGGREGATE MATERIAL SHOULD BE COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY OBTAINED IN ACCORDANCE WITH ASTM D-1557, MODIFIED PROCTOR METHOD.
 - REFER TO GEOTECHNICAL REPORT (AS PROVIDED) FOR FURTHER DETAILS. GEOTECHNICAL REPORT TAKES PRECEDENCE OVER DETAILS HEREIN.
 - DEPTH OF ANY SAW CUT CONTRACTION JOINTS SHALL BE 1/2" IF CUT WITHIN 6 HOURS OF POUR; IF SAW CUTTING OCCURS AFTER 6 HOURS OF CONCRETE POUR, THE JOINT DEPTH SHALL BE 1/4 THE CONCRETE THICKNESS.
 - ALL JOINTS TO BE PERPENDICULAR WITH PAVEMENT EDGE. WHERE CURVED, ALL JOINTS TO RADIATE AND BE ALIGNED WITH CENTER POINT.
 - "CURE AND SEAL", OR SIMILAR, SHALL BE APPLIED UPON COMPLETION OF ALL CONCRETE WORK.
 - CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF POOR SOIL CONDITIONS ARE ENCOUNTERED.
 - ALL DETAILING, INCLUDING CURB AND GUTTER SHALL BE INSTALLED IN ACCORDANCE WITH CITY/COUNTY STANDARDS.
 - OVER CAULKED AND/OR MESSY JOINTS WILL REQUIRE REMOVAL AND REPAIR AT NO EXTRA COST TO CLIENT/OWNER.
 - FORE ASPHALT INSTALLATIONS, THE SUBGRADE AND THE GRADED AGGREGATE BASE COURSE MUST BE PROOF ROLLED BY AN INSPECTOR PRIOR TO INSTALLATION. INSPECTOR MAY REQUIRE FURTHER TESTING IF NECESSARY.
 - CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF POOR SOIL CONDITIONS ARE ENCOUNTERED.
 - ALL DETAILING, INCLUDING CURB AND GUTTER SHALL BE INSTALLED IN ACCORDANCE WITH CITY/COUNTY STANDARDS.



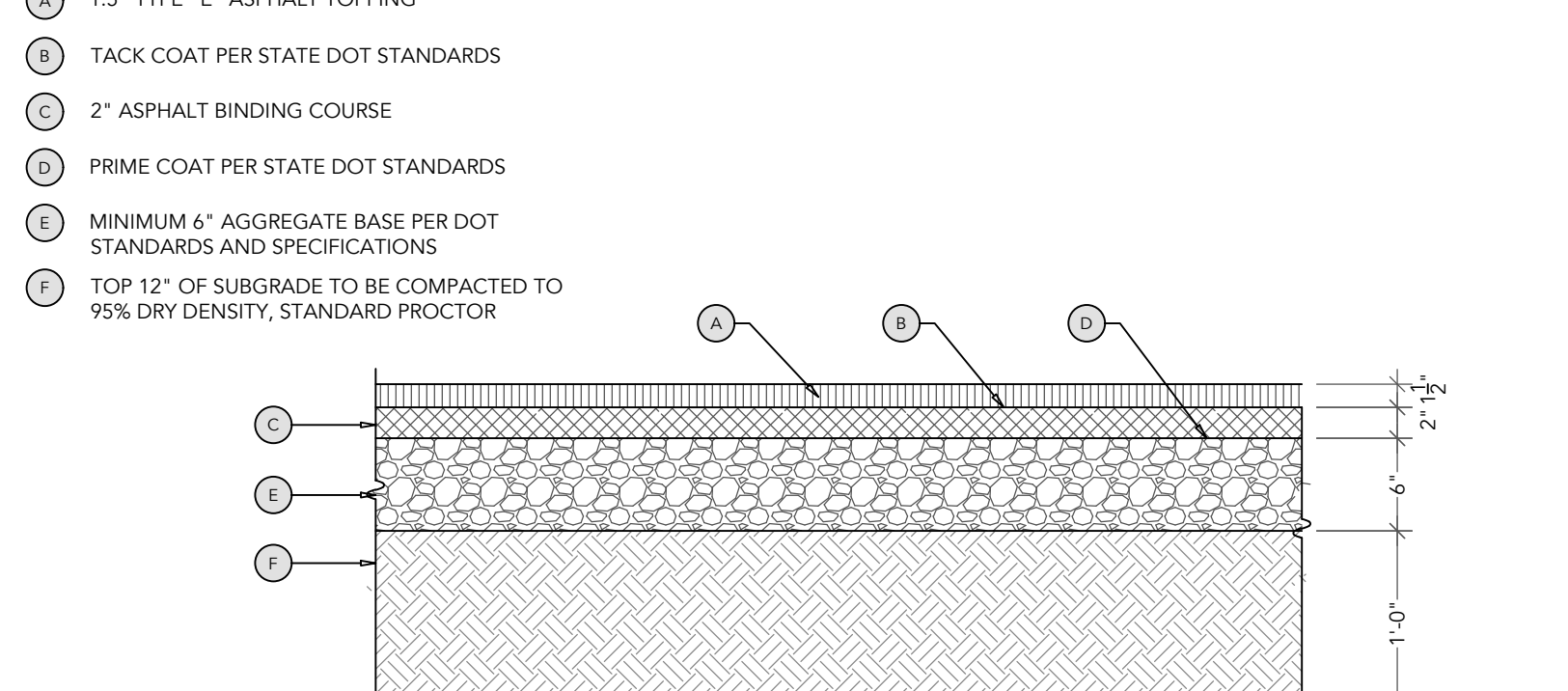
- 2 EXPANSION JOINT (TYPICAL)**
NTS
- (A) 1/4" NOSING
 - (B) ELASTOMERIC SEALANT (COLOR TO MATCH CONCRETE SIDEWALK)
 - (C) BACKER ROD
 - (D) BITUMINOUS FILLER BOARD
 - (E) 1/2" EXPANSION JOINT (PREMOLDED, BITUMINOUS-FILLED)
 - (F) CONCRETE PAVEMENT, SEE TYPICAL DETAIL
 - (G) NATIVE SOIL OR COMPACTED SUBGRADE (TYPICAL)
- GENERAL NOTES:**
- CAULK EXPANSION JOINT WITH ELASTOMERIC SEALANT (COLOR TO MATCH ADJACENT CONCRETE COLOR).
 - EXPANSION JOINTS SHALL BE HAVE A MAXIMUM 20' SPACING.
 - MAXIMUM WIDTH OF JOINT SEALANT SHALL BE 1/2" AS DETAILED. EXCESS SEALANT SHALL NOT EXTEND BEYOND WIDTH OF JOINT OR ON TO JOINT NOSING. HOLD SEALANT DOWN 1/2" AS SHOWN.
 - CLEAN ALL EXCESS SEALANT FROM CONCRETE SURFACE.
 - DEPTH OF ANY SAW CUT CONTRACTION JOINTS SHALL BE 1/2" IF CUT WITHIN 6 HOURS OF POUR; IF SAW CUTTING OCCURS AFTER 6 HOURS OF CONCRETE POUR, THE JOINT DEPTH SHALL BE 1/4 THE CONCRETE THICKNESS.
 - "CURE AND SEAL", OR SIMILAR, SHALL BE APPLIED UPON COMPLETION OF ALL CONCRETE WORK.
 - OVER CAULKED AND/OR MESSY JOINTS WILL REQUIRE REMOVAL AND REPAIR AT NO EXTRA COST TO CLIENT/OWNER.



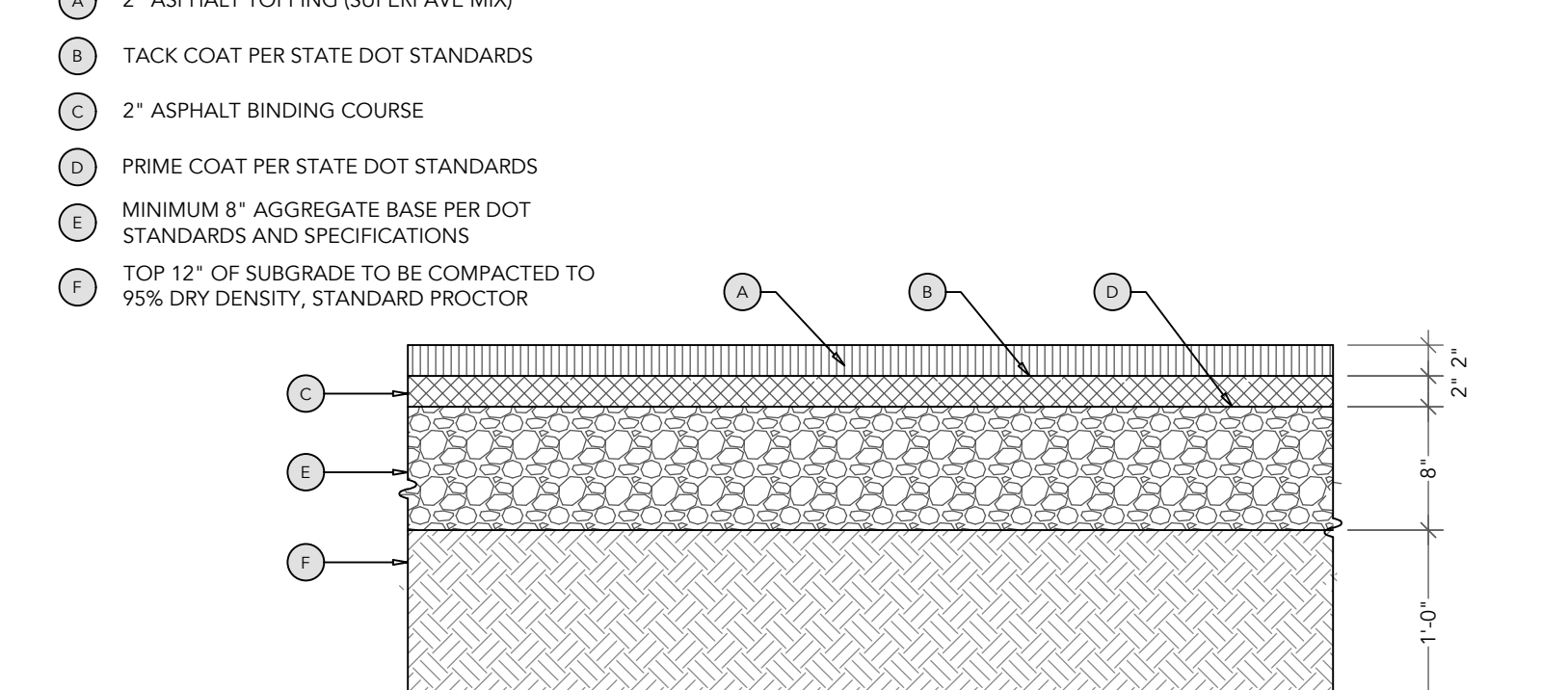
- 3 CONTROL JOINT - SAW CUT OR TOOLED**
NTS
- (A) LIGHT BROOM FINISH, TYPICAL
 - (B) CONCRETE PAVEMENT, SEE TYPICAL DETAIL
 - (C) SAW CUT OR TOOLED CONTROL JOINT 1/4" X (SEE NOTES FOR DEPTH)
 - (D) NATIVE SOIL OR COMPACTED SUBGRADE (TYPICAL)
- GENERAL NOTES:**
- DEPTH OF ANY SAW CUT CONTRACTION JOINTS SHALL BE 1/2" IF CUT WITHIN 6 HOURS OF POUR; IF SAW CUTTING OCCURS AFTER 6 HOURS OF CONCRETE POUR, THE JOINT DEPTH SHALL BE 1/3 THE CONCRETE THICKNESS.
 - ALL JOINTS ARE TO BE PERPENDICULAR WITH EDGES OF PAVEMENT. WHERE PAVEMENT IS CURVED, ALL JOINTS ARE TO RADIATE AND BE ALIGNED WITH CENTER POINT.
 - "CURE AND SEAL", OR SIMILAR, SHALL BE APPLIED UPON COMPLETION OF ALL CONCRETE WORK.
 - OVER CAULKED AND/OR MESSY JOINTS WILL REQUIRE REMOVAL AND REPAIR AT NO EXTRA COST TO CLIENT/OWNER.



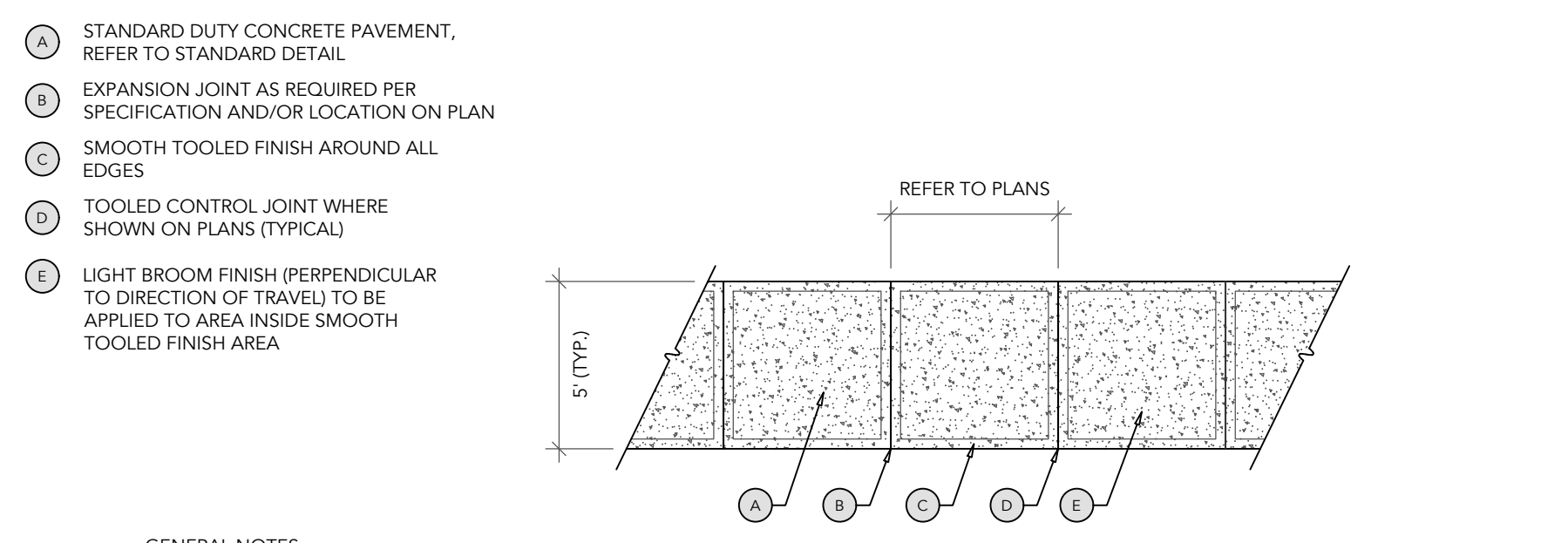
- 4 HEAVY DUTY CONCRETE PAVEMENT (TYPICAL)**
NTS
- (A) CONTROL JOINT (TYPICAL) (REFER TO PLANS FOR TYPE AND LOCATION)
 - (B) LIGHT BROOM FINISH, TYPICAL
 - (C) 6" MINIMUM CONCRETE SLAB WITH 6 X 6 -W2-9 WELDED WIRE MESH REINFORCEMENT
 - (D) MINIMUM 6" AGGREGATE BASE PER DOT STANDARDS AND SPECIFICATIONS
 - (E) NATIVE SOIL OR COMPACTED SUBGRADE (TYPICAL)
- GENERAL NOTES:**
- CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 POUNDS PER SQUARE INCH (PSI).
 - SET REINFORCEMENT 1.5" TO 2" FROM SURFACE OF PAVING. W/M SHALL MAINTAIN 1.5" CLEARANCE FROM CONTRACTION JOINTS.
 - AGGREGATE MATERIAL USED AS BASE COURSE MUST COMPLY WITH THE GRADATION REQUIREMENTS ESTABLISHED BY THE STATE DEPARTMENT OF TRANSPORTATION. AGGREGATE MATERIAL SHOULD BE COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY OBTAINED IN ACCORDANCE WITH ASTM D-1557, MODIFIED PROCTOR METHOD.
 - REFER TO GEOTECHNICAL REPORT (AS PROVIDED) FOR FURTHER DETAILS. GEOTECHNICAL REPORT TAKES PRECEDENCE OVER DETAILS HEREIN.
 - DEPTH OF ANY SAW CUT CONTRACTION JOINTS SHALL BE 1/2" IF CUT WITHIN 6 HOURS OF POUR; IF SAW CUTTING OCCURS AFTER 6 HOURS OF CONCRETE POUR, THE JOINT DEPTH SHALL BE 1/4 THE CONCRETE THICKNESS.
 - ALL JOINTS TO BE PERPENDICULAR WITH PAVEMENT EDGE. WHERE CURVED, ALL JOINTS TO RADIATE AND BE ALIGNED WITH CENTER POINT.
 - "CURE AND SEAL", OR SIMILAR, SHALL BE APPLIED UPON COMPLETION OF ALL CONCRETE WORK.
 - CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF POOR SOIL CONDITIONS ARE ENCOUNTERED.
 - ALL DETAILING, INCLUDING CURB AND GUTTER SHALL BE INSTALLED IN ACCORDANCE WITH CITY/COUNTY STANDARDS.
 - OVER CAULKED AND/OR MESSY JOINTS WILL REQUIRE REMOVAL AND REPAIR AT NO EXTRA COST TO CLIENT/OWNER.
 - FORE ASPHALT INSTALLATIONS, THE SUBGRADE AND THE GRADED AGGREGATE BASE COURSE MUST BE PROOF ROLLED BY AN INSPECTOR PRIOR TO INSTALLATION. INSPECTOR MAY REQUIRE FURTHER TESTING IF NECESSARY.
 - CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF POOR SOIL CONDITIONS ARE ENCOUNTERED.
 - ALL DETAILING, INCLUDING CURB AND GUTTER SHALL BE INSTALLED IN ACCORDANCE WITH CITY/COUNTY STANDARDS.



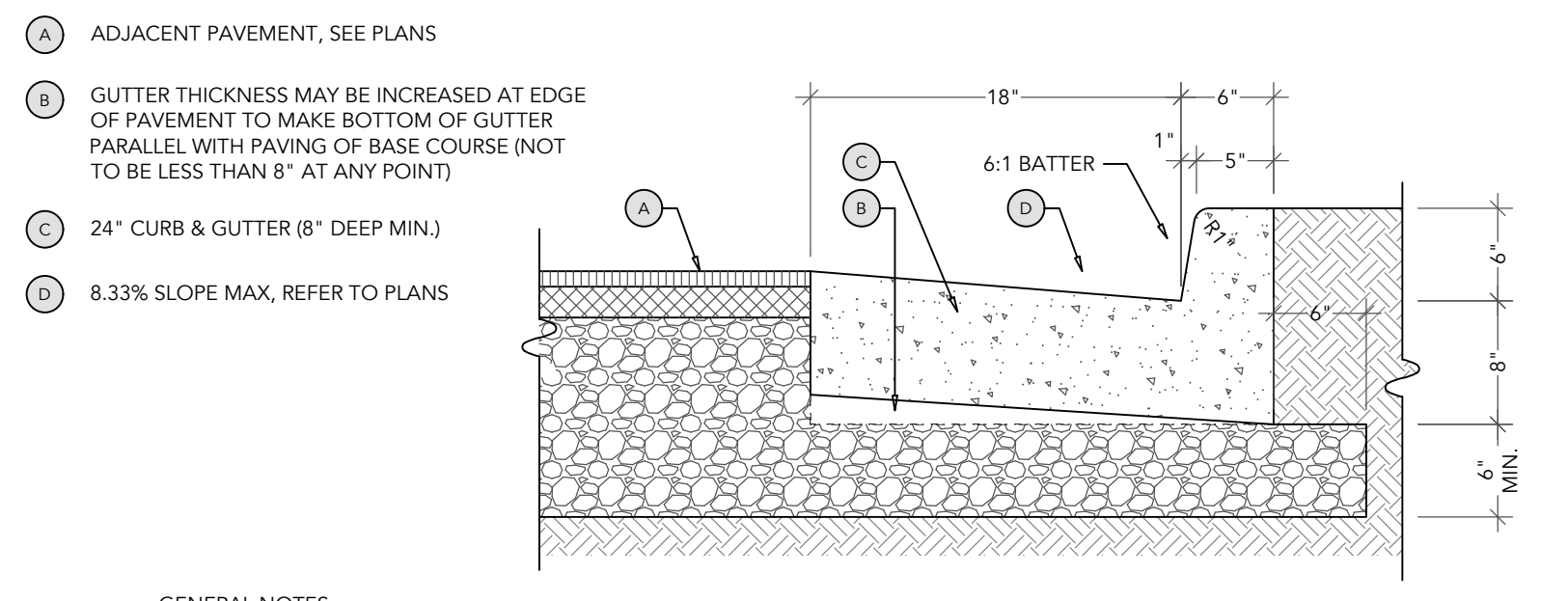
- 5 STANDARD DUTY ASPHALT PAVEMENT (TYPICAL)**
NTS
- (A) 1.5" TYPE "E" ASPHALT TOPPING
 - (B) TACK COAT PER STATE DOT STANDARDS
 - (C) 2" ASPHALT BINDING COURSE
 - (D) PRIME COAT PER STATE DOT STANDARDS
 - (E) MINIMUM 6" AGGREGATE BASE PER DOT STANDARDS AND SPECIFICATIONS
 - (F) TOP 12" OF SUBGRADE TO BE COMPACTED TO 95% DRY DENSITY, STANDARD PROCTOR
- GENERAL NOTES:**
- AGGREGATE MATERIAL USED AS BASE COURSE MUST COMPLY WITH THE GRADATION REQUIREMENTS ESTABLISHED BY THE STATE DEPARTMENT OF TRANSPORTATION. AGGREGATE MATERIAL SHOULD BE COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY OBTAINED IN ACCORDANCE WITH ASTM D-1557, MODIFIED PROCTOR METHOD.
 - REFER TO GEOTECHNICAL REPORT (AS PROVIDED) FOR FURTHER DETAILS. GEOTECHNICAL REPORT TAKES PRECEDENCE OVER DETAILS LISTED WITHIN THIS SET.
 - THE SUBGRADE AND THE GRADED AGGREGATE BASE COURSE MUST BE PROOF ROLLED BY AN INSPECTOR PRIOR TO INSTALLATION OF ASPHALT. INSPECTOR MAY REQUIRE FURTHER TESTING IF NECESSARY.
 - CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF POOR SOIL CONDITIONS ARE ENCOUNTERED.
 - ALL DETAILING, INCLUDING CURB AND GUTTER SHALL BE INSTALLED IN ACCORDANCE WITH CITY/COUNTY STANDARDS.



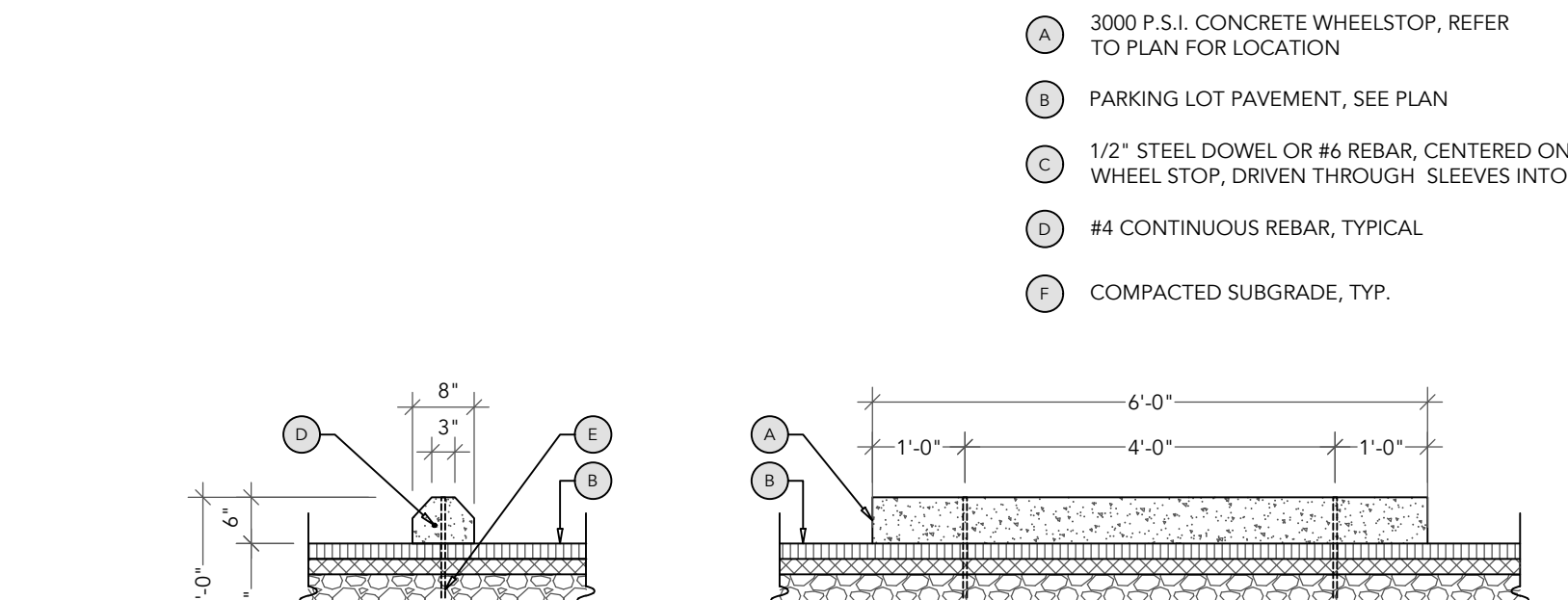
- 6 HEAVY DUTY ASPHALT PAVEMENT (TYPICAL)**
NTS
- (A) 2" ASPHALT TOPPING (SUPERPAVE MIX)
 - (B) TACK COAT PER STATE DOT STANDARDS
 - (C) 2" ASPHALT BINDING COURSE
 - (D) PRIME COAT PER STATE DOT STANDARDS
 - (E) MINIMUM 8" AGGREGATE BASE PER DOT STANDARDS AND SPECIFICATIONS
 - (F) TOP 12" OF SUBGRADE TO BE COMPACTED TO 95% DRY DENSITY, STANDARD PROCTOR
- GENERAL NOTES:**
- AGGREGATE MATERIAL USED AS BASE COURSE MUST COMPLY WITH THE GRADATION REQUIREMENTS ESTABLISHED BY THE STATE DEPARTMENT OF TRANSPORTATION. AGGREGATE MATERIAL SHOULD BE COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY OBTAINED IN ACCORDANCE WITH ASTM D-1557, MODIFIED PROCTOR METHOD.
 - REFER TO GEOTECHNICAL REPORT (AS PROVIDED) FOR FURTHER DETAILS. GEOTECHNICAL REPORT TAKES PRECEDENCE OVER DETAILS LISTED WITHIN THIS SET.
 - THE SUBGRADE AND THE GRADED AGGREGATE BASE COURSE MUST BE PROOF ROLLED BY AN INSPECTOR PRIOR TO INSTALLATION OF ASPHALT. INSPECTOR MAY REQUIRE FURTHER TESTING IF NECESSARY.
 - CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF POOR SOIL CONDITIONS ARE ENCOUNTERED.
 - ALL DETAILING, INCLUDING CURB AND GUTTER SHALL BE INSTALLED IN ACCORDANCE WITH CITY/COUNTY STANDARDS.



- 7 TYPICAL CONCRETE SIDEWALK WITH TOOLED JOINTS**
NTS
- (A) STANDARD DUTY CONCRETE PAVEMENT, REFER TO STANDARD DETAIL
 - (B) EXPANSION JOINT AS REQUIRED PER SPECIFICATION AND/OR LOCATION ON PLAN
 - (C) SMOOTH TOOLED FINISH AROUND ALL EDGES
 - (D) TOOLED CONTROL JOINT WHERE SHOWN ON PLANS (TYPICAL)
 - (E) LIGHT BROOM FINISH (PERPENDICULAR TO DIRECTION OF TRAVEL) TO BE APPLIED TO AREA INSIDE SMOOTH TOOLED FINISH AREA
- GENERAL NOTES:**
- CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 POUNDS PER SQUARE INCH (PSI).
 - CONTROL JOINTS ARE AT 5'-0" O.C. TOOLED 1/2" WIDE WITH 1/2" RADIUS. JOINTS ARE 1" DEEP OR 1/3 DEPTH OF SLAB (WHICHEVER IS GREATER)
 - EXPANSION JOINTS SHALL HAVE A MAXIMUM 20' SPACING (REFER TO DETAIL).
 - CONCRETE TO BE REINFORCED AS NECESSARY (REFER TO GEOTECHNICAL REPORT FOR FURTHER DETAIL).
 - SIDEWALK SHALL HAVE A MAXIMUM CROSS SLOPE OF 2%.
 - A SMOOTH TOOLED FINISH SHALL BE APPLIED TO THE EDGES (AS SHOWN) WHILE THE INNER SQUARE SHALL HAVE A LIGHT BROOM FINISH TO CREATE PICTURE FRAME EFFECT.
 - "CURE AND SEAL", OR SIMILAR, SHALL BE APPLIED UPON COMPLETION OF ALL CONCRETE WORK.

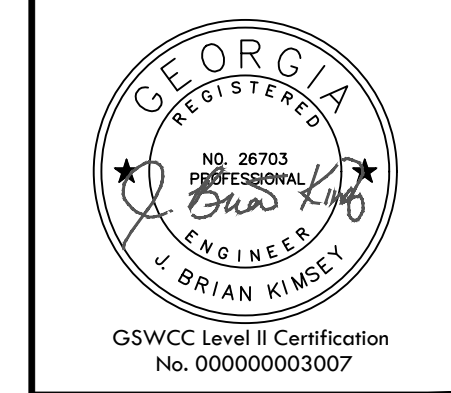


- 8 CURB & GUTTER - TYPICAL**
NTS
- (A) ADJACENT PAVEMENT, SEE PLANS
 - (B) GUTTER THICKNESS MAY BE INCREASED AT EDGE OF PAVEMENT TO MAKE BOTTOM OF GUTTER PARALLEL WITH PAVING OF BASE COURSE (NOT TO BE LESS THAN 8" AT ANY POINT)
 - (C) 24" CURB & GUTTER (8" DEEP MIN.)
 - (D) 8.33% SLOPE MAX, REFER TO PLANS
- GENERAL NOTES:**
- MINIMUM DESIGN STANDARDS SHALL MEET STATE DEPARTMENT OF TRANSPORTATION (DOT) STANDARD SPECIFICATIONS AND DETAILS AND SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODE, REGULATIONS AND ORDINANCES.
 - CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 POUNDS PER SQUARE INCH (PSI).
 - 1/2" EXPANSION JOINTS OR PREMOLDED BITUMINOUS EXPANSION JOINT MATERIAL SHALL BE PROVIDED AT ALL STRUCTURES AND RADIUS POINTS AND AT INTERVALS NOT TO EXCEED 50' SPACING (REFER TO DETAIL).
 - CONSTRUCTION JOINTS SHALL BE PLACED AT INTERVALS NOT TO EXCEED 10' SPACING.
 - CONCRETE TO BE REINFORCED AS NECESSARY (REFER TO GEOTECHNICAL REPORT FOR FURTHER DETAIL)
 - AGGREGATE BASE COURSE MATERIAL MUST COMPLY WITH THE GRADATION REQUIREMENTS ESTABLISHED BY THE DOT. AGGREGATE MATERIAL SHOULD BE COMPACTED TO AT LEAST 98 PERCENT OF THE MAXIMUM DRY DENSITY OBTAINED IN ACCORDANCE WITH ASTM D-1557, MODIFIED PROCTOR METHOD.
 - AGGREGATE BASE SHALL EXTEND BEYOND THE BACK OF CURB A MINIMUM OF 6".
 - "CURE AND SEAL", OR SIMILAR, SHALL BE APPLIED UPON COMPLETION OF ALL CONCRETE WORK.
 - GUTTER THICKNESS MAY BE INCREASED TO MATCH PAVING COURSE AS NEEDED. GUTTER SHALL BE SUPER ELEVATED IN AREAS WHERE STORMWATER IS INTENDED TO DRAIN AWAY FROM THE CURB (REFER TO PLANS).
 - PROVIDE 45° MITERED CONTROL JOINT AT 90° CORNERS.
 - TOOLED CONTROL JOINTS SHALL BE PLACED OVER ALL SLEEVES AND EXTEND DOWN THE FACE OF THE CURB TO THE SLEEVE OPENING.



- 9 CONCRETE WHEELSTOP - 6' - TYPICAL**
NTS
- (A) 3000 P.S.I. CONCRETE WHEELSTOP, REFER TO PLAN FOR LOCATION
 - (B) PARKING LOT PAVEMENT, SEE PLAN
 - (C) 1/2" STEEL DOWEL OR #6 REBAR, CENTERED ON LENGTH OF WHEEL STOP, DRIVEN THROUGH SLEEVES INTO COMPACTED BASE
 - (D) #4 CONTINUOUS REBAR, TYPICAL
 - (E) COMPACTED SUBGRADE, TYP.
- GENERAL NOTES:**
- CONTRACTOR SHALL CAULK ALL DOWEL OPENINGS, COLOR TO MATCH WHEEL STOP MATERIAL. HOLES SHALL BE FILLED WITH NON-SHRINKAGE CEMENTITIOUS GROUT.
 - PLACE WHEELSTOPS PER PLAN AND CENTERED WITHIN PARKING SPACE STRIPING AS SHOWN.
 - INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.

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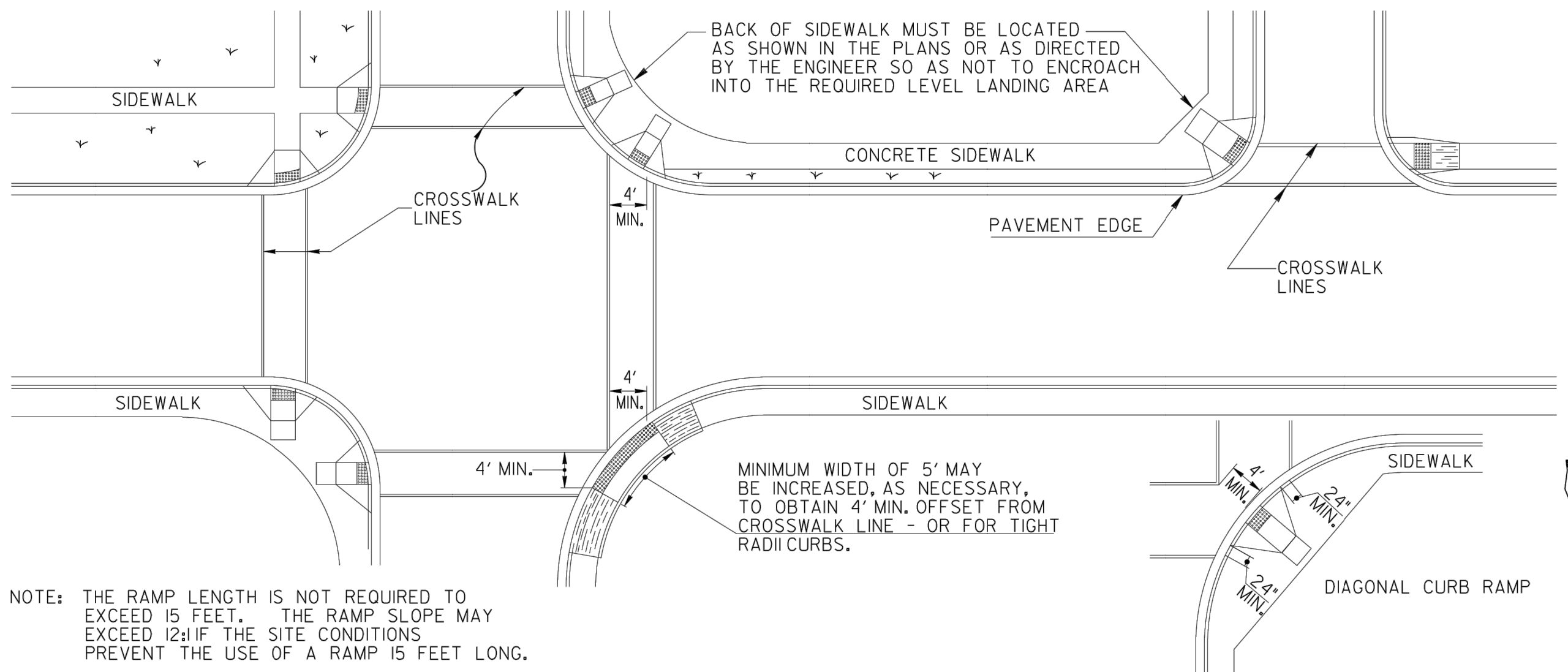
SITE DEVELOPMENT PLANS
 FOR
FIRE DEPARTMENT 5
365 JOE STEPHENS ROAD - FRANKLIN, GA 30217

SHEET TITLE:	STANDARD DETAILS
PROJECT NAME:	HEARD COUNTY
SHEET NUMBER:	C 9.0
PROJECT NUMBER:	23001HCG
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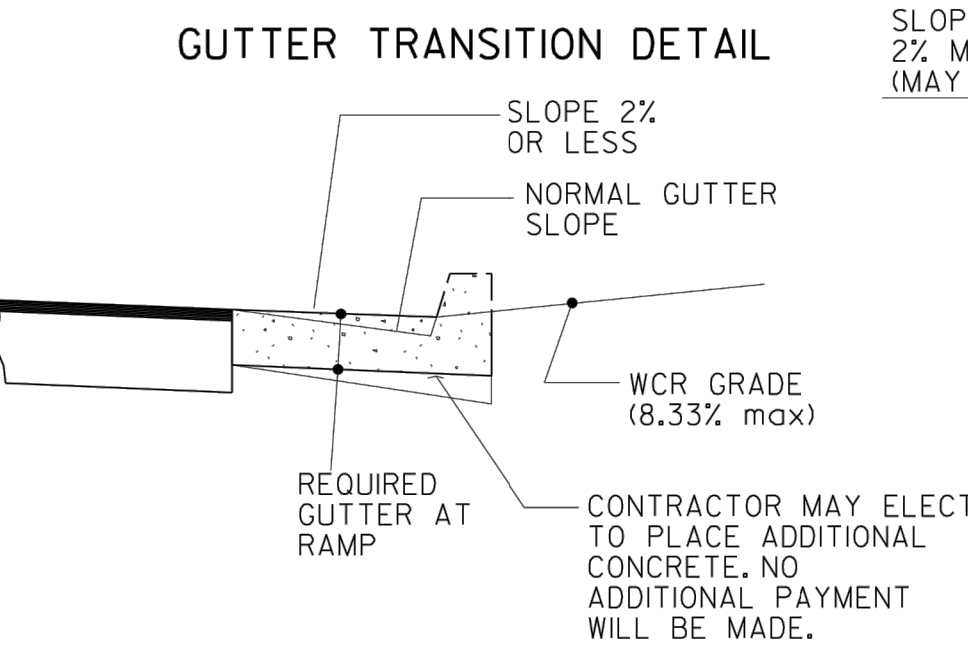
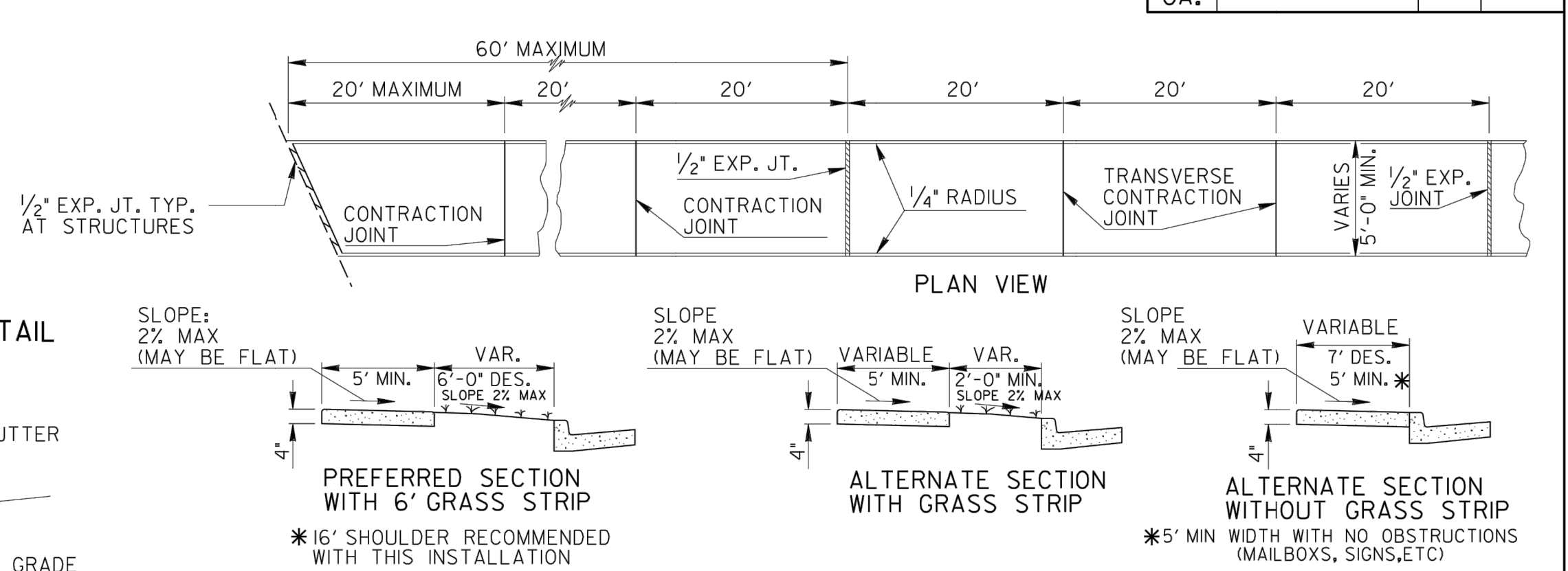
TYPICAL LOCATIONS FOR CURB CUT RAMPS - PLAN VIEW



NOTE: THE RAMP LENGTH IS NOT REQUIRED TO EXCEED 15 FEET. THE RAMP SLOPE MAY EXCEED 12% IF THE SITE CONDITIONS PREVENT THE USE OF A RAMP 15 FEET LONG.

CONCRETE SIDEWALK DETAILS

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



PREFERRED SECTION WITH 6\"/>

NOTES FOR CONCRETE SIDEWALK:

- CONCRETE TO BE PLACED 4\"/>
- TRANSVERSE CONTRACTION JOINTS SHALL BE PLACED AT 20 FT. INTERVALS. ALL EDGES TO BE ROUNDED TO 1/4\"/>
- 1/2\"/>

NOTES FOR CURB CUT RAMPS:

- CURB CUT RAMPS WILL BE LOCATED AS FOLLOWS UNLESS PLANS OR CONTRACT SPECIFY OTHERWISE.
 - AT ALL PEDESTRIAN CROSSWALKS WHERE CURB IS CONSTRUCTED OR REPLACED.
 - WHERE THE SIDEWALK, CONCRETE OR UNPAVED, IS INTERRUPTED BY THE CURB AT TURNOUTS OR AT INTERSECTIONS.
 - AT OTHER LOCATIONS SUCH AS HOSPITALS, NURSING HOMES, REST AREAS, ETC., WHERE THE CURB WOULD OTHERWISE BE AN OBSTRUCTION TO THE PHYSICALLY DISABLED.
- RAMPS WILL BE CONSTRUCTED FROM CONCRETE. SPECIFICATIONS FOR RAMPS WILL BE THE SAME AS FOR CONCRETE SIDEWALK. RAMPS SHALL HAVE EITHER A ROUGH OR A TEXTURED FINISH.
- DROP INLETS ARE NOT TO BE LOCATED DIRECTLY IN FRONT OF RAMPS. CATCH BASINS SHOULD BE LOCATED AT LEAST 10 FT. FROM RAMPS WHEN FEASIBLE.
- WHERE RAMPS ARE LOCATED IN RADIUS, THE DIMENSIONS SHOWN FOR RAMP WIDTHS AND TAPERS ARE MEASURED PERPENDICULAR TO THE RAMP AND NOT ALONG THE CURVE.
- WHERE UTILITY STRUCTURES CONFLICT, WHERE SIDEWALK GEOMETRY VARIES, AT SKEWED INTERSECTIONS, OR IN OTHER SPECIAL CASES, THE RAMP DESIGNS MAY BE MODIFIED BY THE DESIGNER OR ENGINEER, PROVIDED THAT THE WIDTH REMAINS A MINIMUM OF 48 INCHES, AND NO SLOPE ON THE ACCESSIBLE PART OF THE RAMP IS STEEPER THAN 12:1.
- WHEN A CURB RAMP IS PLACED ON EXISTING PAVEMENT, THE PAVEMENT SHALL BE REMOVED TO PROVIDE A MINIMUM THICKNESS OF 3 INCHES OF CONCRETE AT ALL LOCATIONS. NO SEPARATE PAYMENT WILL BE MADE FOR REMOVAL OF THE PAVEMENT.
- DETECTABLE WARNING SURFACES ARE REQUIRED ON ALL INTERSECTIONS WITH PUBLIC STREETS, SIGNALIZED COMMERCIAL DRIVEWAYS, AND COMMERCIAL DRIVEWAYS WITH AN AADT OF 25 VPD.

This Detail Replaces Ga Standard 9031W

Guidelines For Usage On Metric Projects

When these details are incorporated into plans and or projects that are being prepared or constructed in metric units, exact or precise conversion to metric units is not required. The dimensions shown that are in feet and inches may be converted to corresponding metric units using the following "Rounded-Off" conversion factors: 1"=25mm, 4"=100mm, and 12" or 1' =300mm. All measurement notes that refer to 1/4" and square yards shall be interpreted to mean 1/4" and square meters.

Type A
(Perpendicular)
(The Preferred Ramp)

DIFFERENCE IN HEIGHT	LENGTH REQUIRED
1 inch	10 inches
2 inches	1'-8"
3 inches	2'-6"
4 inches	3'-4"
5 inches	4'-2"
6 inches	5 feet

Type B
(Parallel)
(Normally used when space is not available for a landing at the top of a Type A Ramp)

Type D
(Perpendicular)
(Normally used when the sidewalk ties directly into the crosswalk)

Type C
(Parallel)

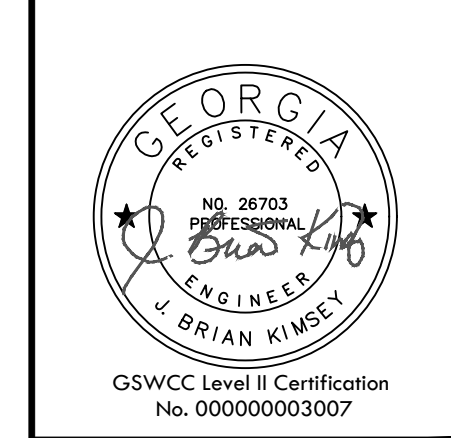
Skewed Ramp Details
(Applies to Type A Type D Ramps Only)

WHEN THE RAMP CENTERLINE IS NOT PERPENDICULAR TO THE CURB A LEVEL LANDING AREA WITH SLOPES LESS THAN 2% MUST BE PROVIDED AT THE BOTTOM OF THE RAMP.

9-15-16	ADDED PERP. OR PARALLEL	6-18-09	REV. SLOPES TO PERCENT AND ADDED 12H & 10H CHART.	5-10-06	REV. TRUNCATED DOMES	2-21-03	REVISED	2-10-03	REVISED	7-29-02	REVISED	5-29-02	REVISED	5-23-02	REVISED	5-13-02	REVISED	4-29-02	REVISED	4-11-02	REVISED	4-3-02	REVISED	3-28-02	REVISED
<p>DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA</p> <p>SPECIAL DETAIL CONCRETE SIDEWALK DETAILS CURB CUT (WHEELCHAIR) RAMPS</p> <p>NO SCALE</p> <p>MARCH 12, 2002</p> <p>NUMBER A3</p>																									

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SITE DEVELOPMENT PLANS
 FOR
FIRE DEPARTMENT 5
365 JOE STEPHENS ROAD - FRANKLIN, GA 30217

SHEET TITLE: STANDARD DETAILS
PROJECT NAME: HEARD COUNTY
SHEET NUMBER: C 9.1
PROJECT NUMBER: 23001HCG
DATE: 01.16.24

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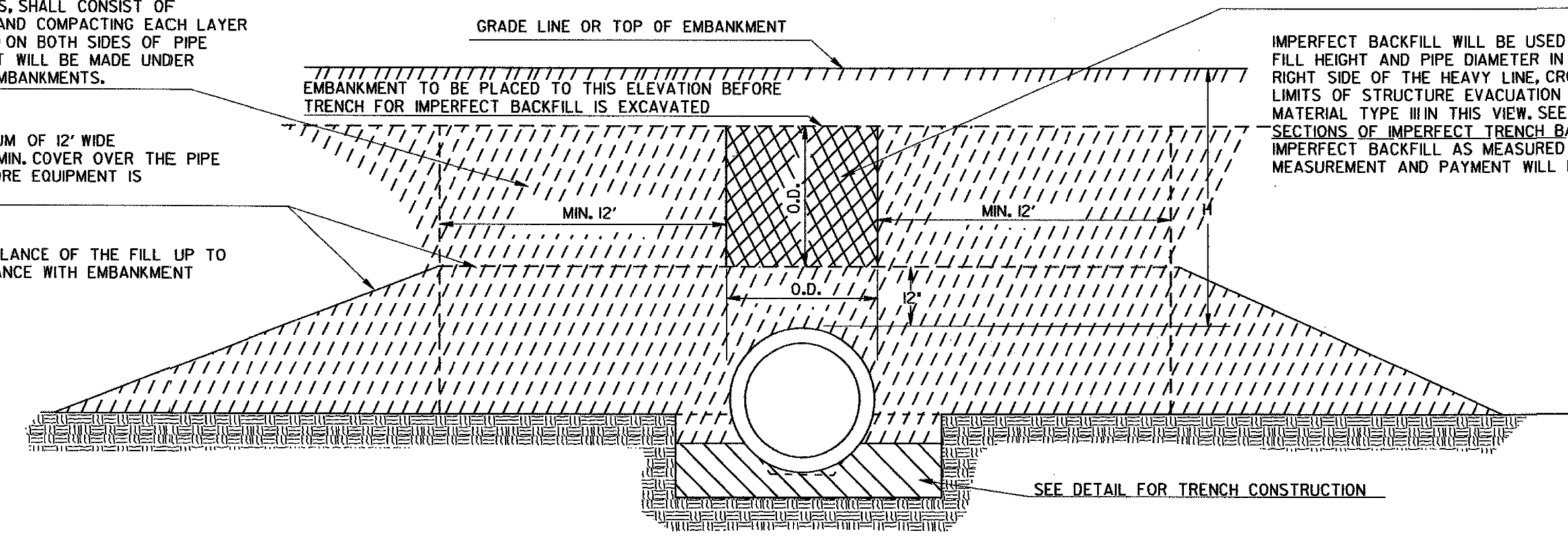
NORMAL BACKFILL

BACKFILL AS SHOWN BY THE BROKEN LINE SECTIONS, SHALL CONSIST OF PLACING COMPACTABLE SOIL IN 6" (LOOSE) LAYERS AND COMPACTING EACH LAYER (ACCORDING TO GEORGIA STANDARD SPECIFICATIONS) ON BOTH SIDES OF PIPE FOR ITS FULL LENGTH. MEASUREMENT AND PAYMENT WILL BE MADE UNDER ROADWAY EXCAVATION ITEMS FOR FORMATION OF EMBANKMENTS.

NORMAL EMBANKMENT SHALL BE PLACED A MINIMUM OF 12" WIDE ON EACH SIDE OF THE PIPE AND AT LEAST THE MIN. COVER OVER THE PIPE AND COMPACTED TO THE REQUIRED DENSITY BEFORE EQUIPMENT IS ALLOWED TO CROSS.

AFTER BACKFILL HAS BEEN COMPACTED, THE BALANCE OF THE FILL UP TO GRADE LINE SHALL BE CONSTRUCTED IN ACCORDANCE WITH EMBANKMENT SPECIFICATIONS

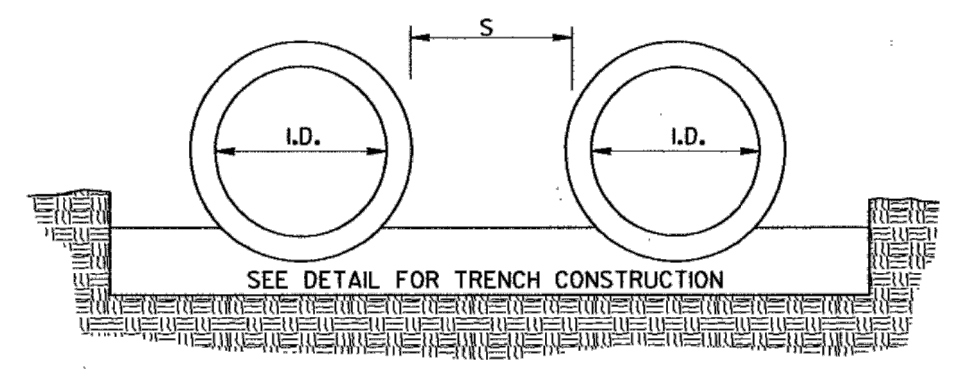
LONGITUDINAL SECTION OF IMPERFECT TRENCH BACKFILL AND BACKFILL METHODS



IMPERFECT BACKFILL

IMPERFECT BACKFILL WILL BE USED WITH CONCRETE PIPE IF FILL HEIGHT AND PIPE DIAMETER IN TABLE NO. 1 FALLS ON THE RIGHT SIDE OF THE HEAVY LINE. CROSS HATCHED AREA SHOWS LIMITS OF STRUCTURE EXCAVATION AND IMPERFECT BACKFILL MATERIAL TYPE III IN THIS VIEW. SEE DETAILS BELOW CROSS SECTIONS OF IMPERFECT TRENCH BACKFILL FOR LIMITS OF IMPERFECT BACKFILL AS MEASURED OVER THE PIPE LENGTHWISE. MEASUREMENT AND PAYMENT WILL BE CONFINED TO THESE LIMITS.

MULTIPLE PIPE CULVERT SPACING

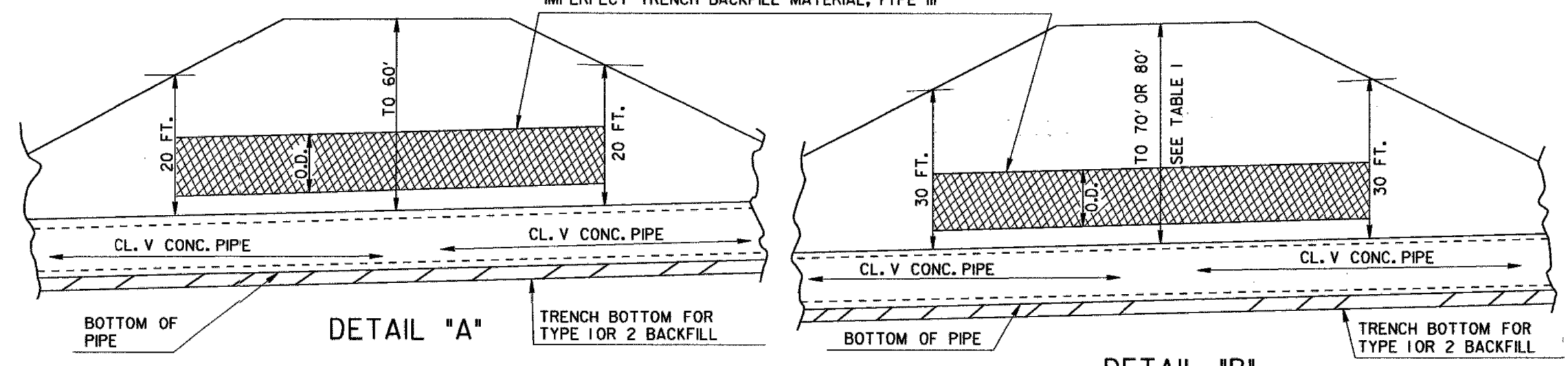


S=ONE INSIDE DIAMETER OF PIPE, OR 3 FEET, WHICHEVER IS SMALLER.
FOR PIPE ARCH CULVERTS, SUBSTITUTE SPAN FOR INSIDE DIAMETER.

NOTE: FOR MULTIPLE LINES OF C.M. PIPE WITH METAL FLARED END SECTIONS, S MAY BE INCREASED ENOUGH TO AVOID OVERLAP OF END SECTION WINGTIPS. LOCATION OF METAL END SECTION SHOULD BE DETERMINED BEFORE PLACEMENT OF PIPE.

CROSS SECTIONS OF IMPERFECT TRENCH BACKFILL

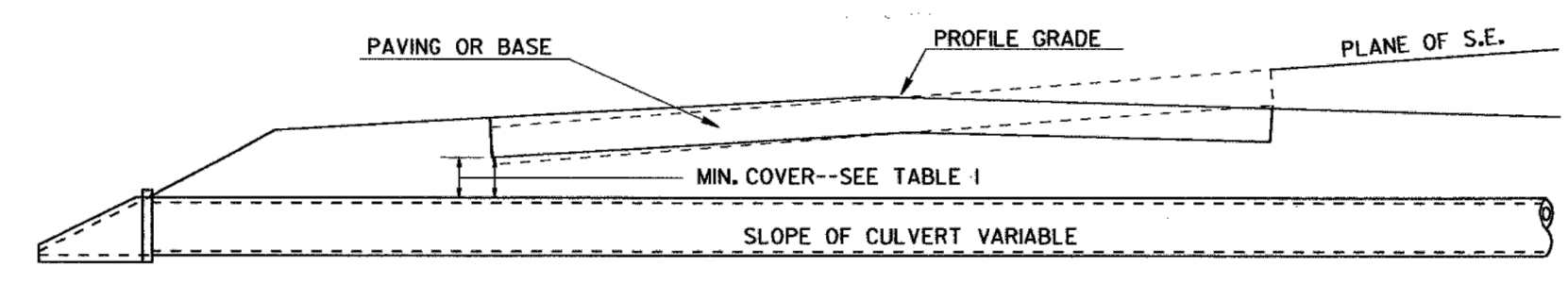
CROSS HATCHED AREAS SHOW LIMITS OF CONSTRUCTION & MEASUREMENT FOR STRUCTURE EXCAVATION & IMPERFECT TRENCH BACKFILL MATERIAL, TYPE III



DETAIL "A"
(FOR CONCRETE PIPE DIAMETERS 78" & 84", WITH FILL HEIGHTS OVER 20 FT.)

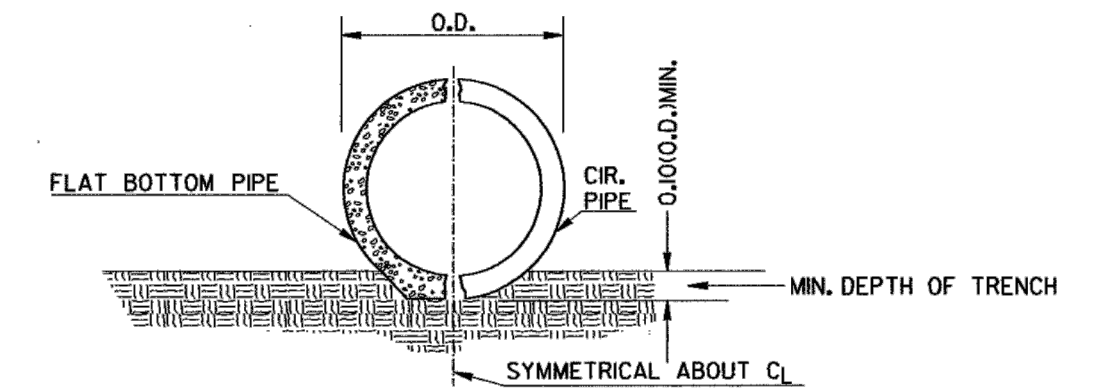
DETAIL "B"
(FOR CONCRETE PIPE DIAMETERS 72" AND LESS WITH FILL HEIGHTS OVER 30 FT.)

DETAIL SHOWING MINIMUM COVER FOR PIPE CULVERTS



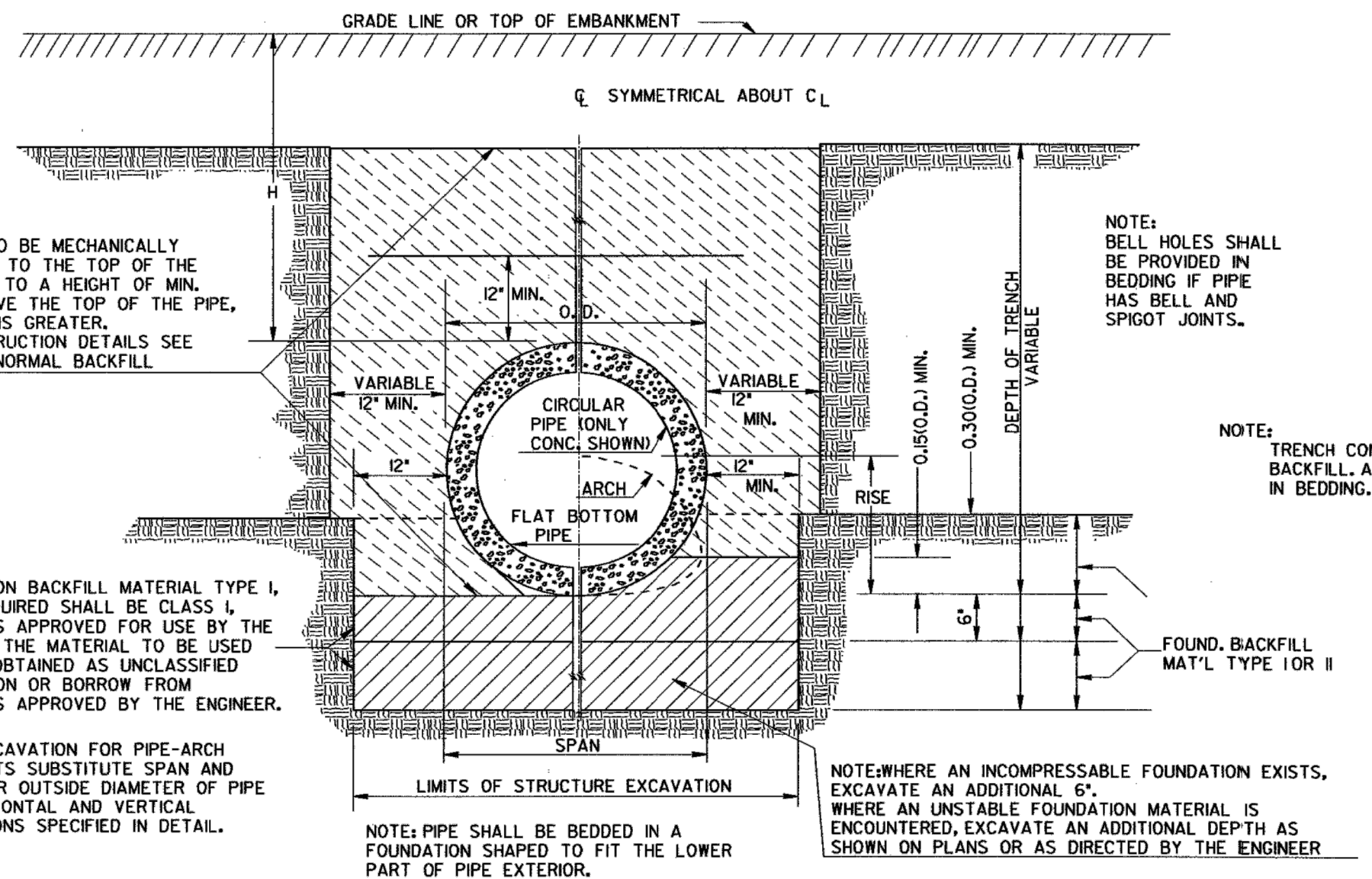
NOTE:
1. FOR FILL HEIGHT TABLES SEE SHEET 2 OF 3 AND SHEET 3 OF 3.
2. ONLY ONE CLASS OR THICKNESS OF PIPE WILL BE SPECIFIED FOR EACH INDIVIDUAL LOCATION. THE CLASS OR THICKNESS WILL BE DETERMINED BY THE MAXIMUM HEIGHT OF FILL.

TRENCH CONSTRUCTION FOR SIDE DRAIN



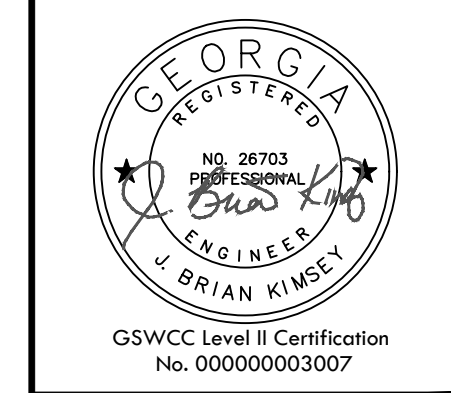
NOTE: THE PIPE SHALL BE BEDDED TO LINE AND GRADE IN A FIRM FOUNDATION SHAPED TO FIT THE LOWER PART OF THE PIPE EXTERIOR. WHERE ROCK EXISTS, EXCAVATE AND BACKFILL WITH COMPRESSIBLE MATERIAL (UNCLASSIFIED EXCAVATION) A MINIMUM OF 6" BELOW THE PIPE.

TRENCH CONSTRUCTION FOR STORM DRAIN.



DATE		DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REVISION		STANDARD CONCRETE & METAL PIPE CULVERTS SHEET 1 OF 3 (TRENCH CONSTRUCTION, BEDDING, BACKFILLING)	
NO SCALE		REV. & REDR.: SEPT., 2001	
DES.	(SUBMITTED)	NUMBER 10300	
DRW.	(APPROVED)	REVISION	
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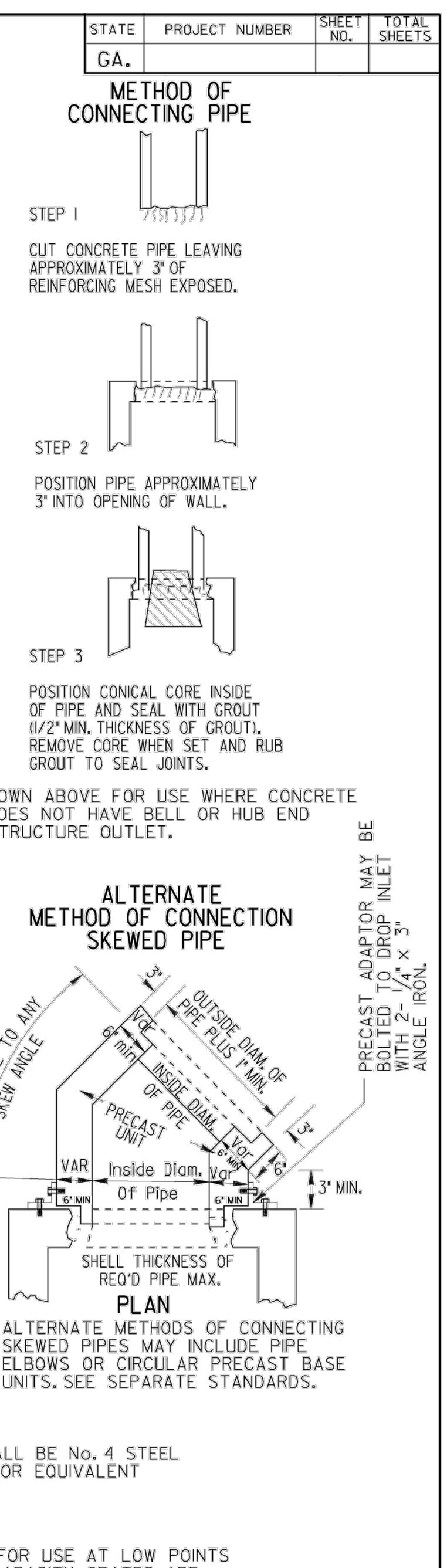
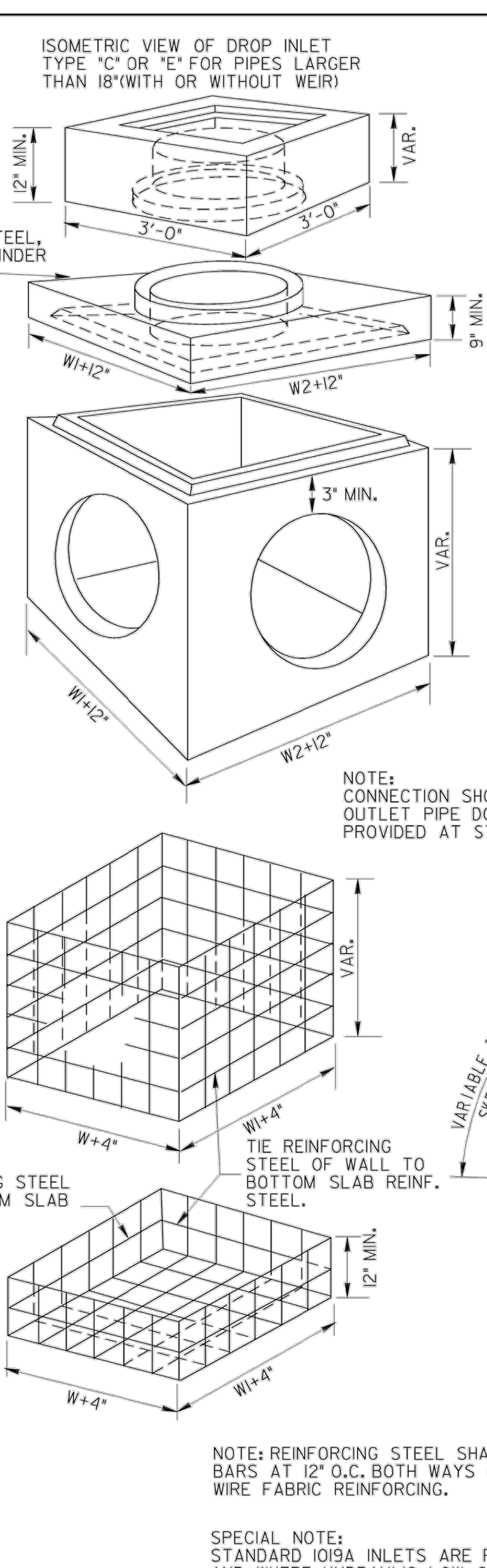
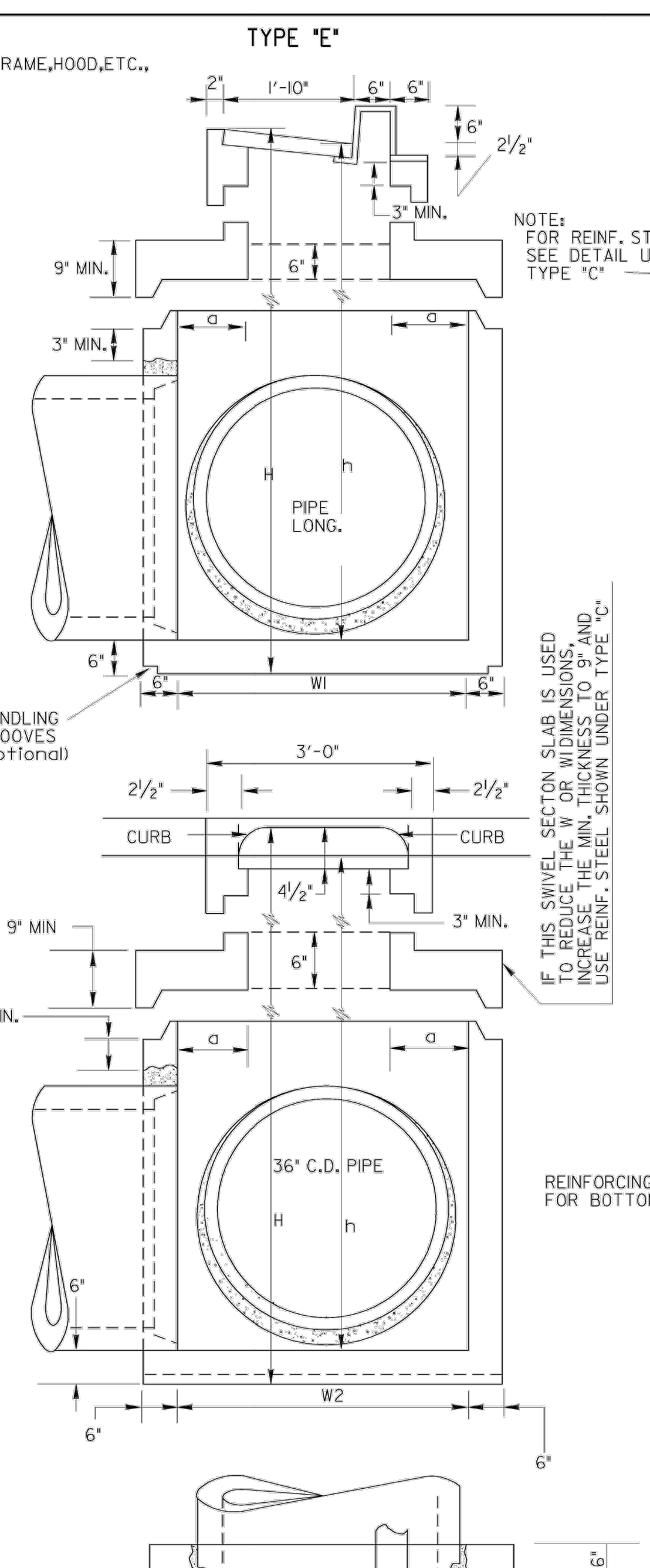
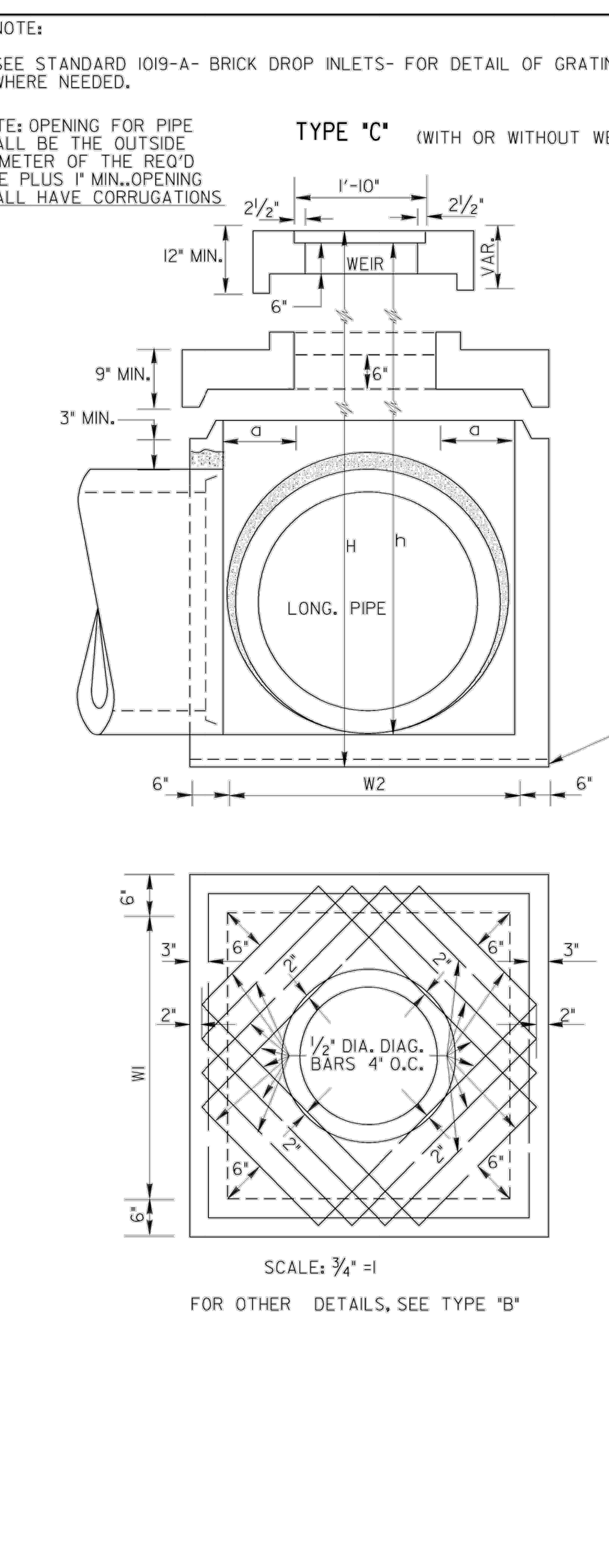
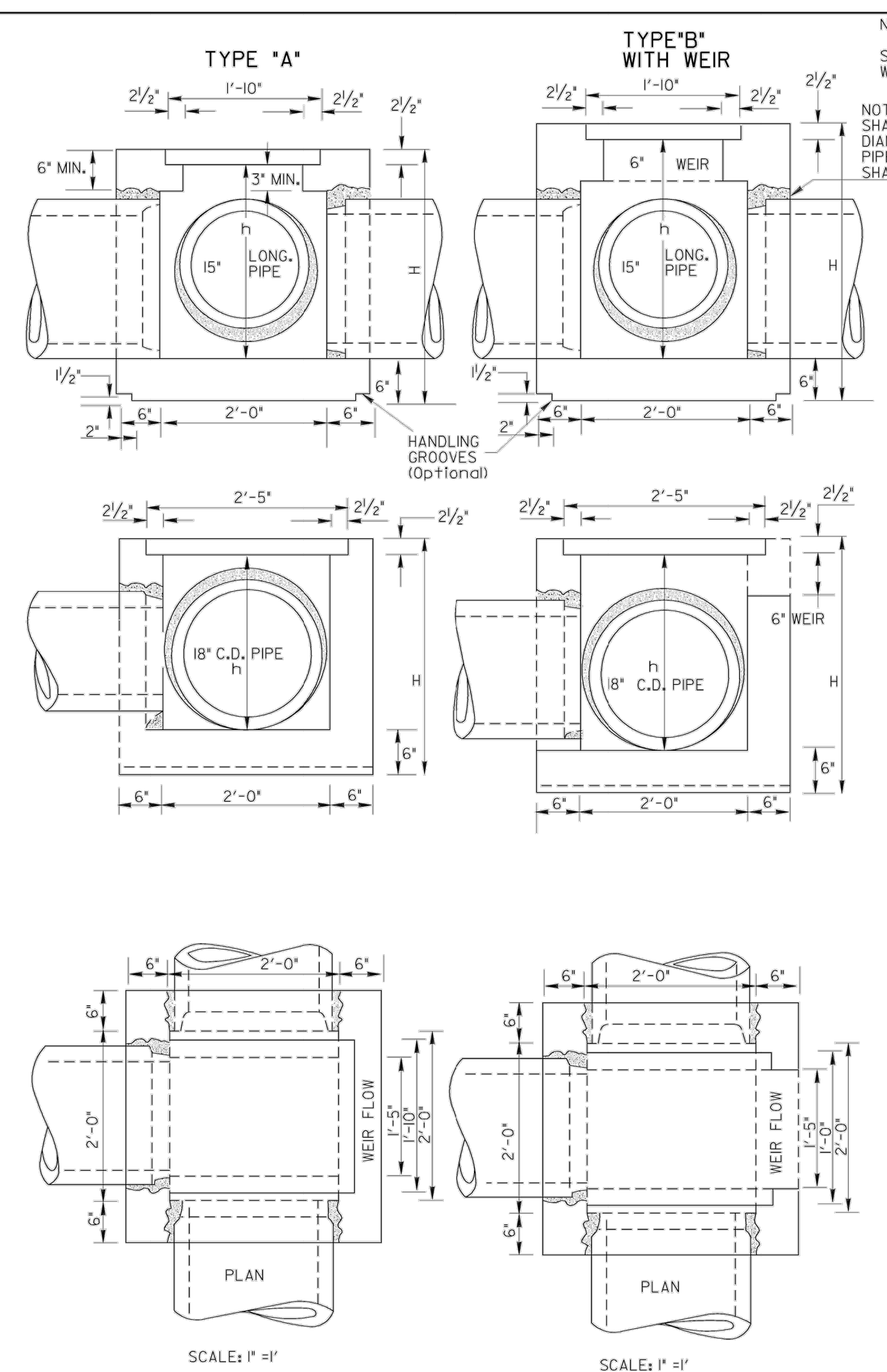
SHEET TITLE: STANDARD DETAILS
PROJECT NAME: HEARD COUNTY
SHEET NUMBER: C 9.2
PROJECT NUMBER: 23001HCG
DATE: 01.16.24

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DIMENSIONS FOR DROP INLETS

PIPE SIZE	TYPE "A"		TYPE "B"		TYPE "C"		TYPE "E"	
	MIN. h	MIN. H	MIN. h	MIN. H	W1 or W2	a	MIN. h	MIN. H
15"	2'-0"	2'-8 1/2"	2'-7"	3'-3 1/2"	2'-0"		2'-7"	3'-3 1/2"
18"	2'-3 1/2"	3'-0"	2'-10"	3'-6 1/2"	2'-0"		2'-10"	3'-6 1/2"
24"					3'-0"	0'-6"	4'-3 1/2"	5'-0"
30"					3'-6"	0'-9"	4'-10 1/2"	5'-7"
36"					4'-0"	1'-0"	5'-5 1/2"	6'-2"
42"					4'-6"	1'-3"	6'-1 1/2"	6'-8"
48"					5'-0"	1'-6"	6'-7 1/2"	7'-3"
54"					5'-6"	1'-9"	7'-2 1/2"	7'-10"
60"					6'-0"	2'-0"	7'-9 1/2"	8'-5"

NOTE: SEE STANDARD 1019A (BRICK) AND STANDARD 1040 FOR CONSTRUCTION ALTERNATES BRICK MASONRY AND CIRCULAR PRECAST SECTIONS RESPECTIVELY.

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

METHOD OF CONNECTING PIPE

STEP 1
CUT CONCRETE PIPE LEAVING APPROXIMATELY 3" OF REINFORCING MESH EXPOSED.

STEP 2
POSITION PIPE APPROXIMATELY 3" INTO OPENING OF WALL.

STEP 3
POSITION CONICAL CORE INSIDE OF PIPE AND SEAL WITH GROUT (1/2" MIN. THICKNESS OF GROUT). REMOVE CORE WHEN SET AND RUB GROUT TO SEAL JOINTS.

NOTE: CONNECTION SHOWN ABOVE FOR USE WHERE CONCRETE OUTLET PIPE DOES NOT HAVE BELL OR HUB END PROVIDED AT STRUCTURE OUTLET.

ALTERNATE METHOD OF CONNECTION SKEWED PIPE

PRECAST ADAPTOR MAY BE BOLTED TO DROP INLET WITH 2-1/4" x 3" ANGLE IRON.

NOTE: REINFORCING STEEL SHALL BE No. 4 STEEL BARS AT 12" O.C. BOTH WAYS OR EQUIVALENT WIRE FABRIC REINFORCING.

SPECIAL NOTE: STANDARD 1019A INLETS ARE FOR USE AT LOW POINTS AND WHERE HYDRAULIC LOW CAPACITY GRATES ARE SUFFICIENT. WHERE HIGHER CAPACITY GRATES ARE NEEDED ON A CONTINUOUS GRADE, STANDARD 1019B IS RECOMMENDED.

DATE		DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REVISION		STANDARD PRECAST DROP INLETS	
SCALE AS SHOWN		AUG. 1999	
DESIGNED	(SUBMITTED) <i>James K. Kneal</i>	NUMBER 1019A PRECAST	
DRAWN	STATE ROAD & AIRPORT DESIGN ENGINEER		
CHECKED	(APPROVED) <i>Carl L. Pickett</i> CHIEF ENGINEER		

REVISION BLOCK

ISSUE	REVISION DATE & DESCRIPTION
1	01.16.24 - CLIENT REVIEW
2	
3	
4	
5	
6	
7	
8	



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F: 770.725.1204
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SITE DEVELOPMENT PLANS
FOR
FIRE DEPARTMENT 5
365 JOE STEPHENS ROAD - FRANKLIN, GA 30217

SHEET TITLE:
**STANDARD
DETAILS**

PROJECT NAME:
**HEARD
COUNTY**

SHEET NUMBER:
C 9.3

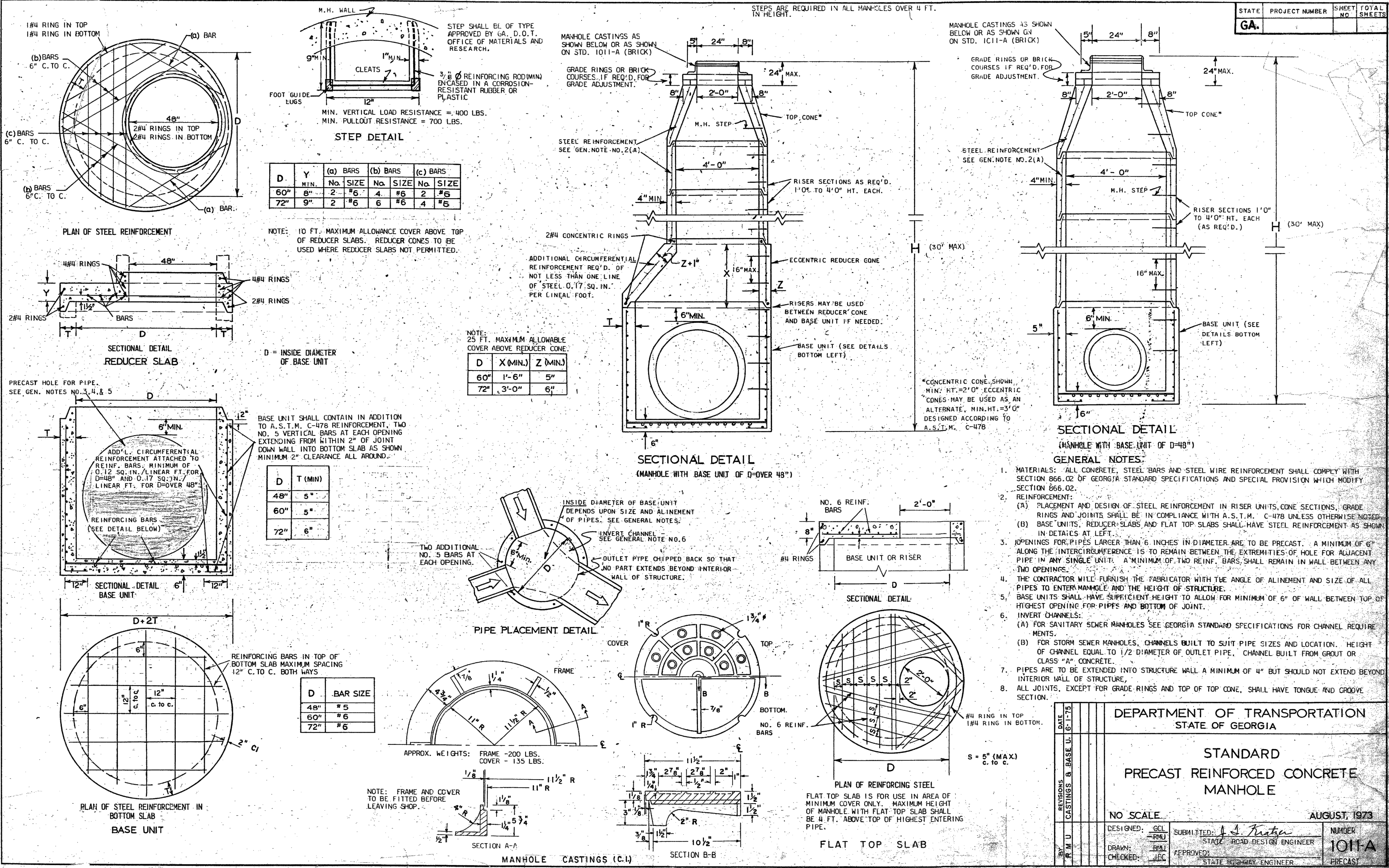
PROJECT NUMBER:
23001HCG

DATE:
01.16.24

9/28/2006 9:28:29 AM \\G00T-DSN1\G00PLOT\QCF\qo_tiff_output_qcf.gwans M:\GARI\alpha\h\1 to concrete\1019AP.prf

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STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

REVISION BLOCK	ISSUE	REVISION DATE & DESCRIPTION
1	1	01/16/24 - CLIENT REVIEW
2	2	
3	3	
4	4	
5	5	
6	6	
7	7	
8	8	



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SITE DEVELOPMENT PLANS
 FOR
FIRE DEPARTMENT 5
 365 JOE STEPHENS ROAD - FRANKLIN, GA 30217

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

**STANDARD
PRECAST REINFORCED CONCRETE
MANHOLE**

NO SCALE

AUGUST, 1973

DESIGNED: GCL	SUBMITTED: J. S. Foster	NUMBER
DRAWN: RML	STATE ROAD DESIGN ENGINEER	1011-A
CHECKED: JEC	APPROVED:	PRECAST

SHEET TITLE: STANDARD DETAILS
PROJECT NAME: HEARD COUNTY
SHEET NUMBER: C 9.5
PROJECT NUMBER: 23001HCG
DATE: 01.16.24

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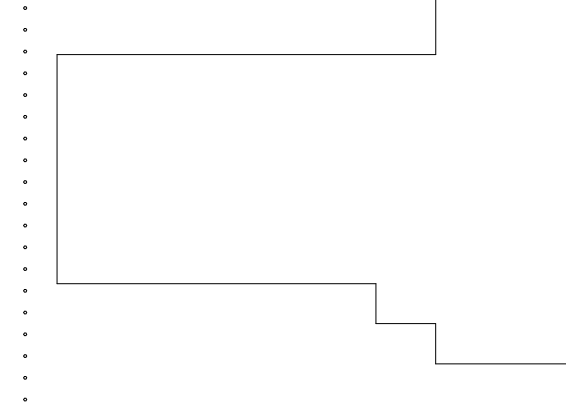
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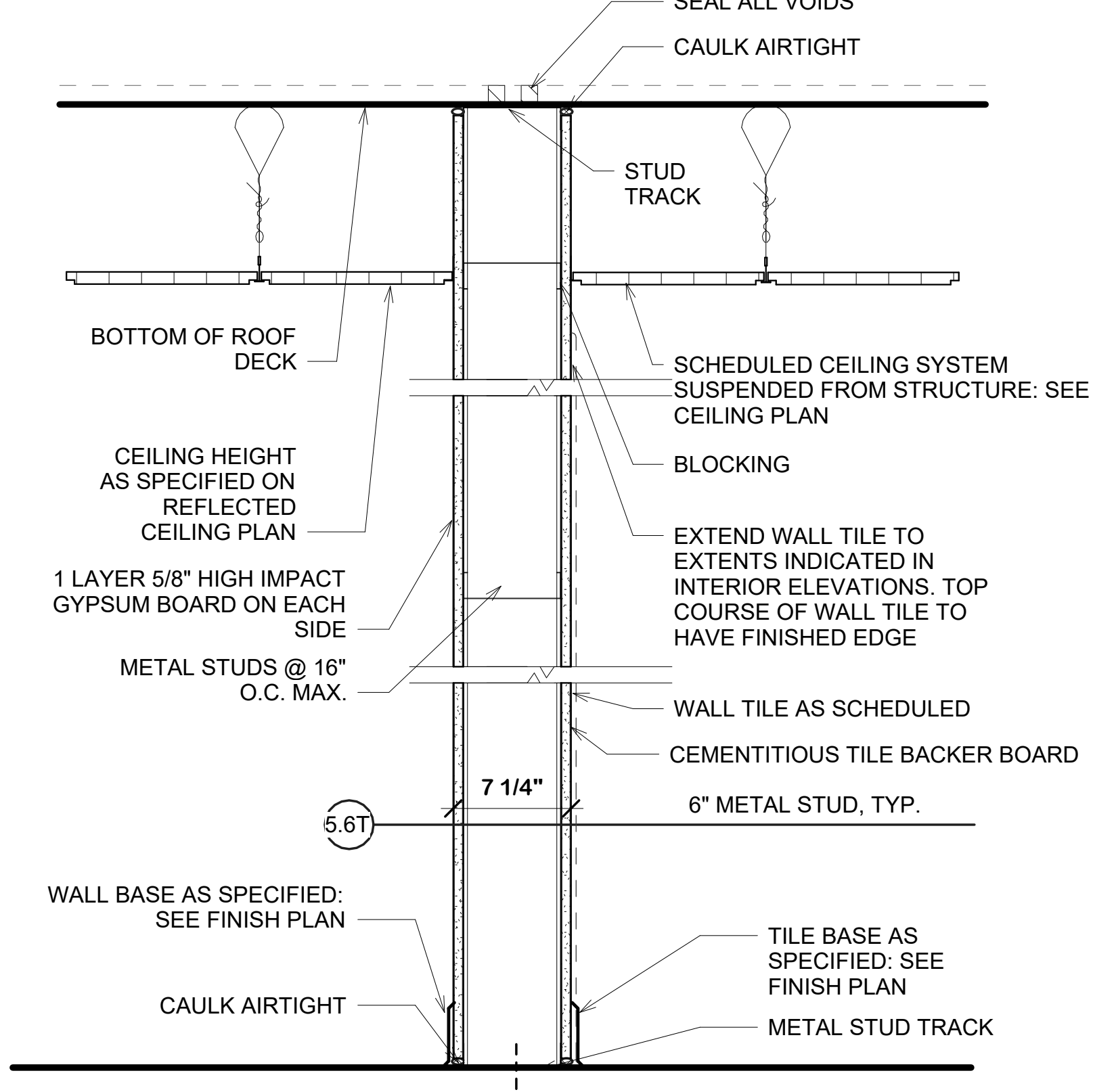
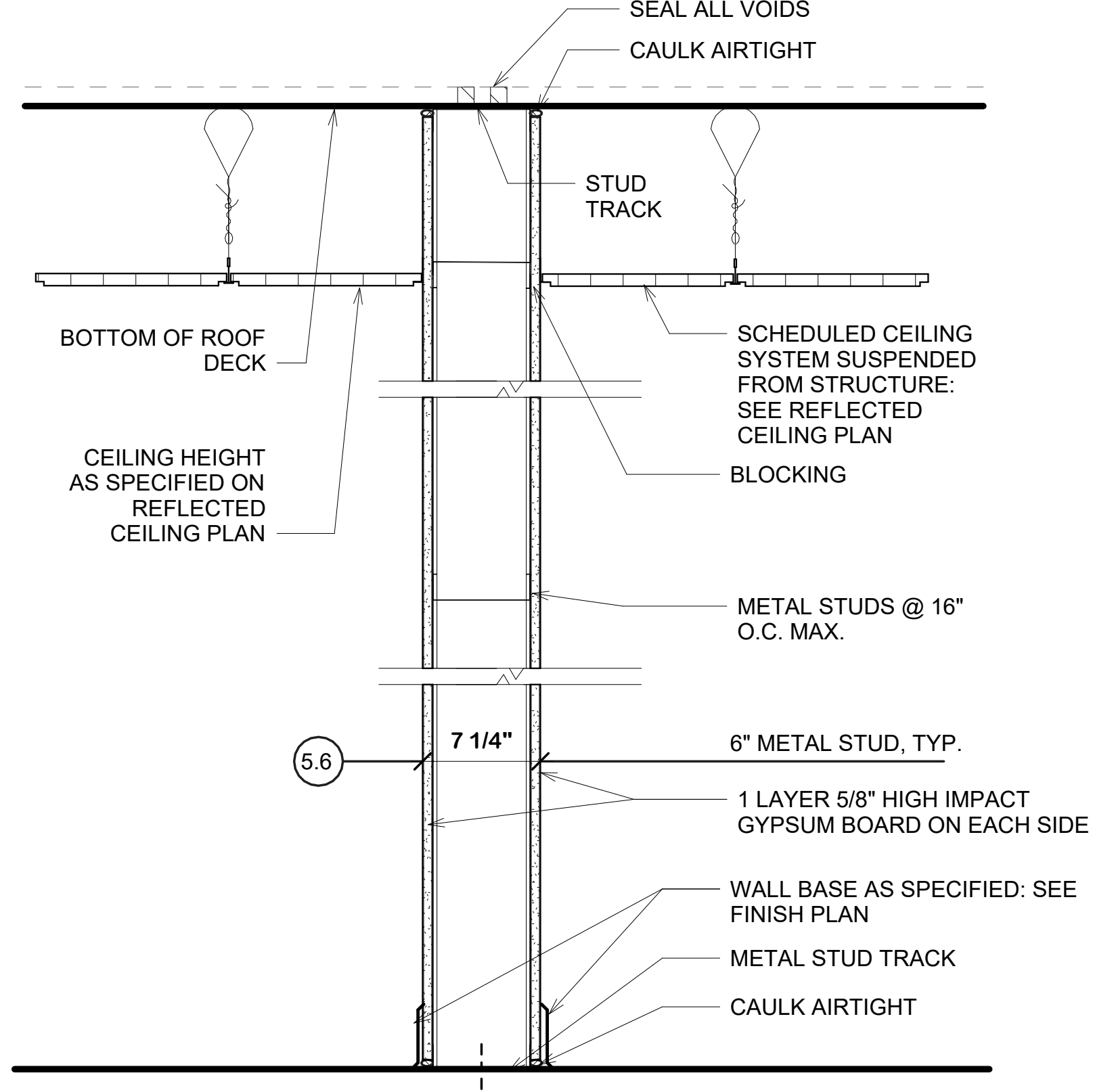
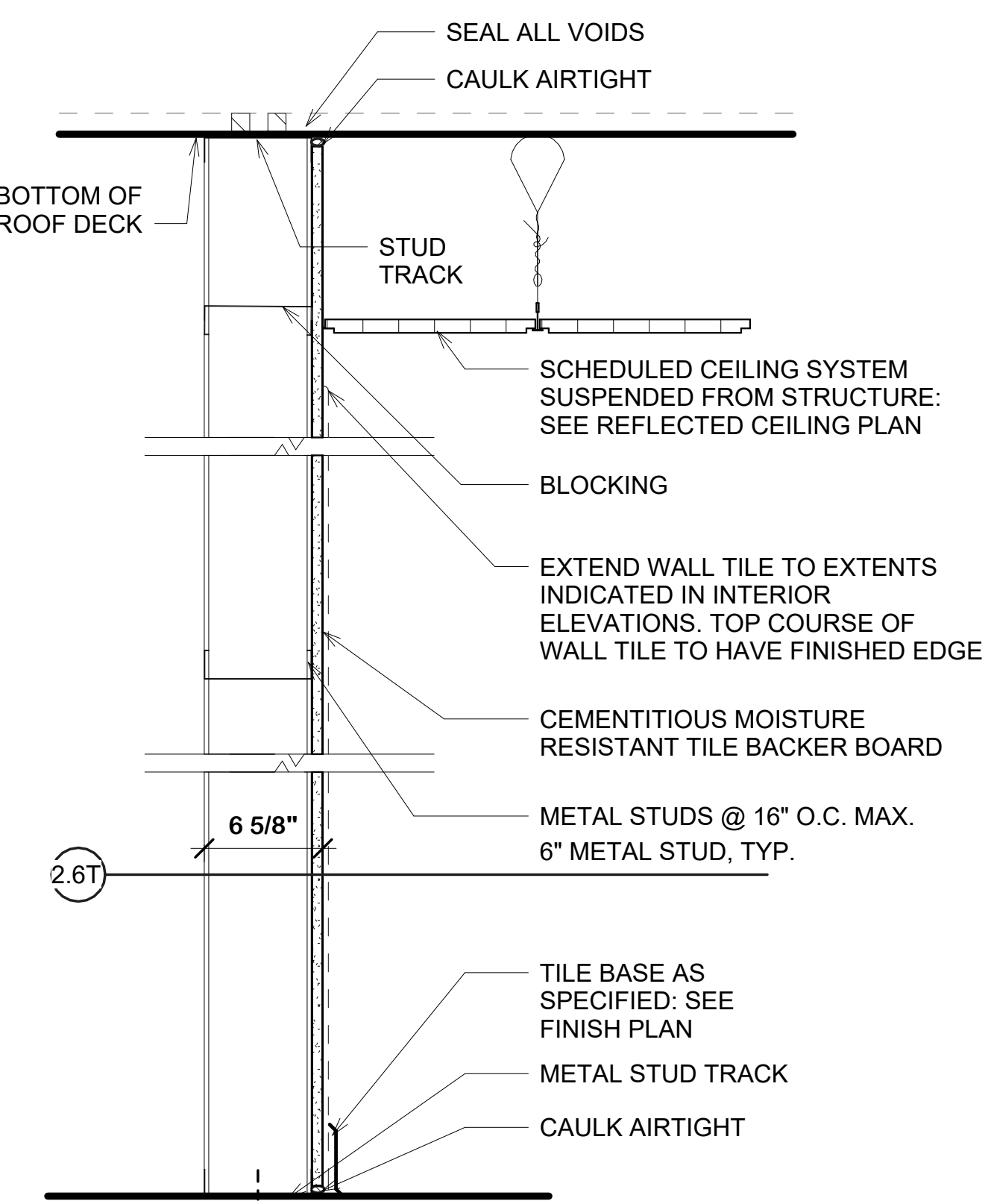
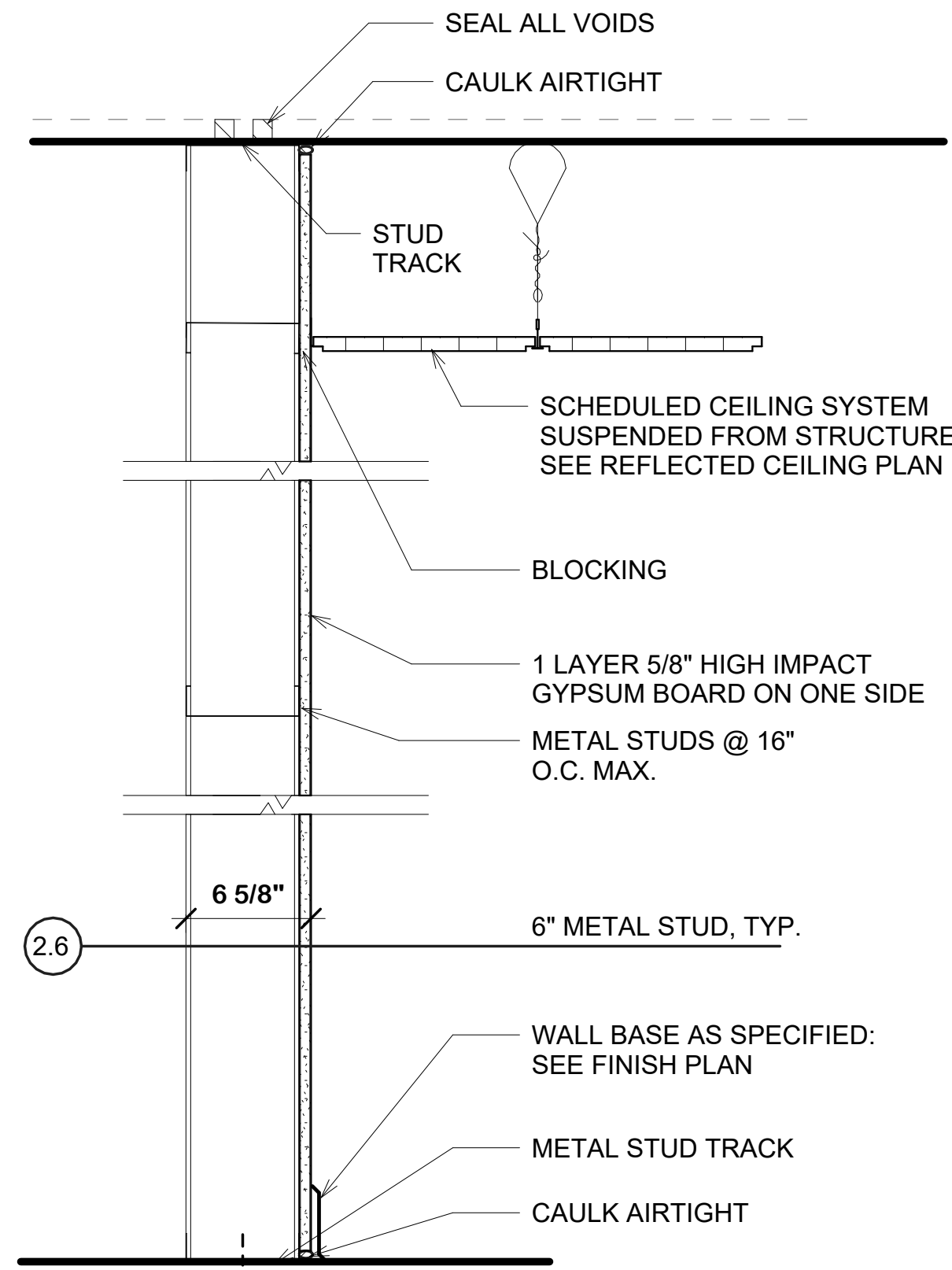
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PROJECT NO. 22125

SHEET TITLE PARTITION DETAILS

SHEET NO. A0.60



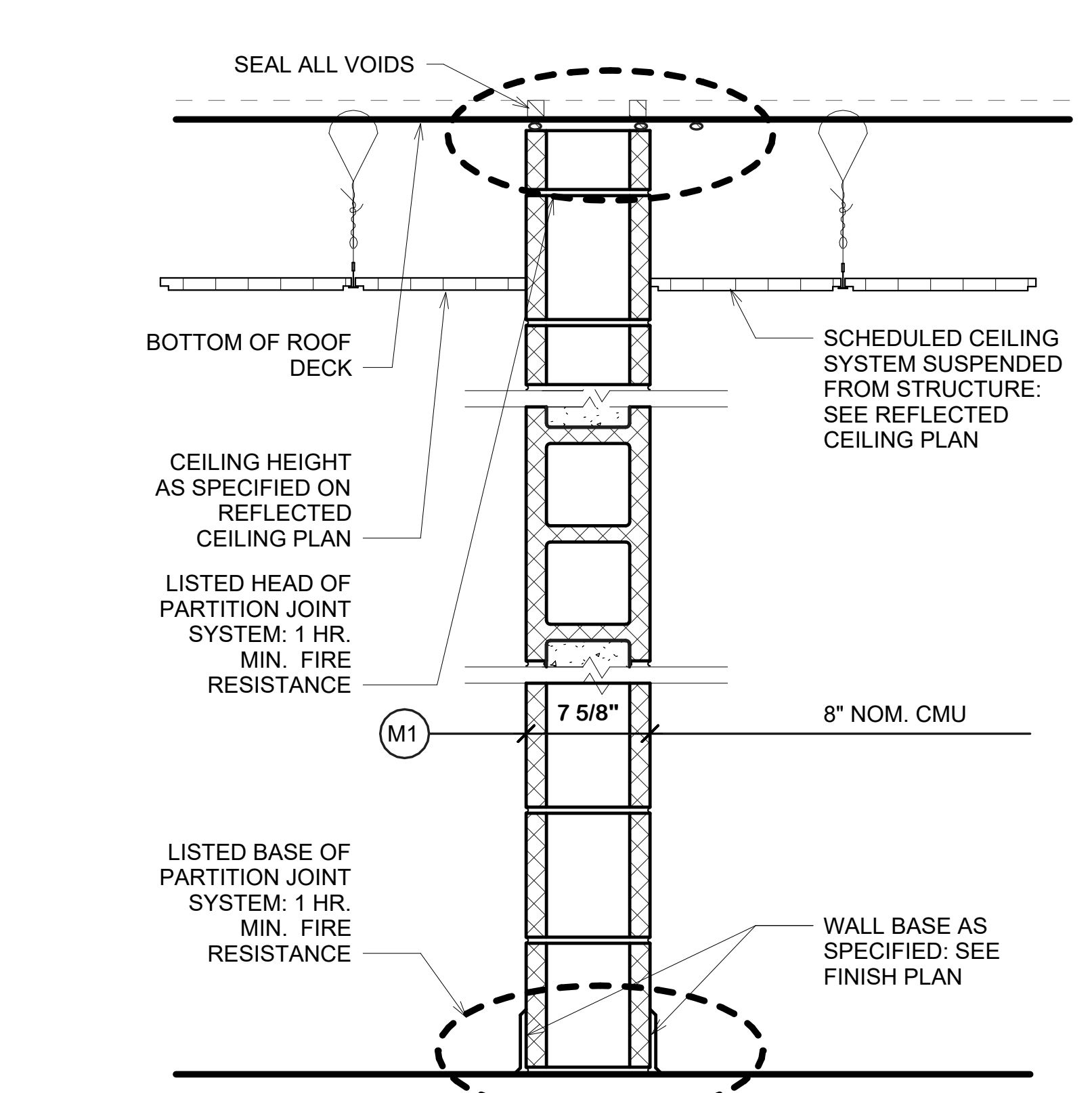
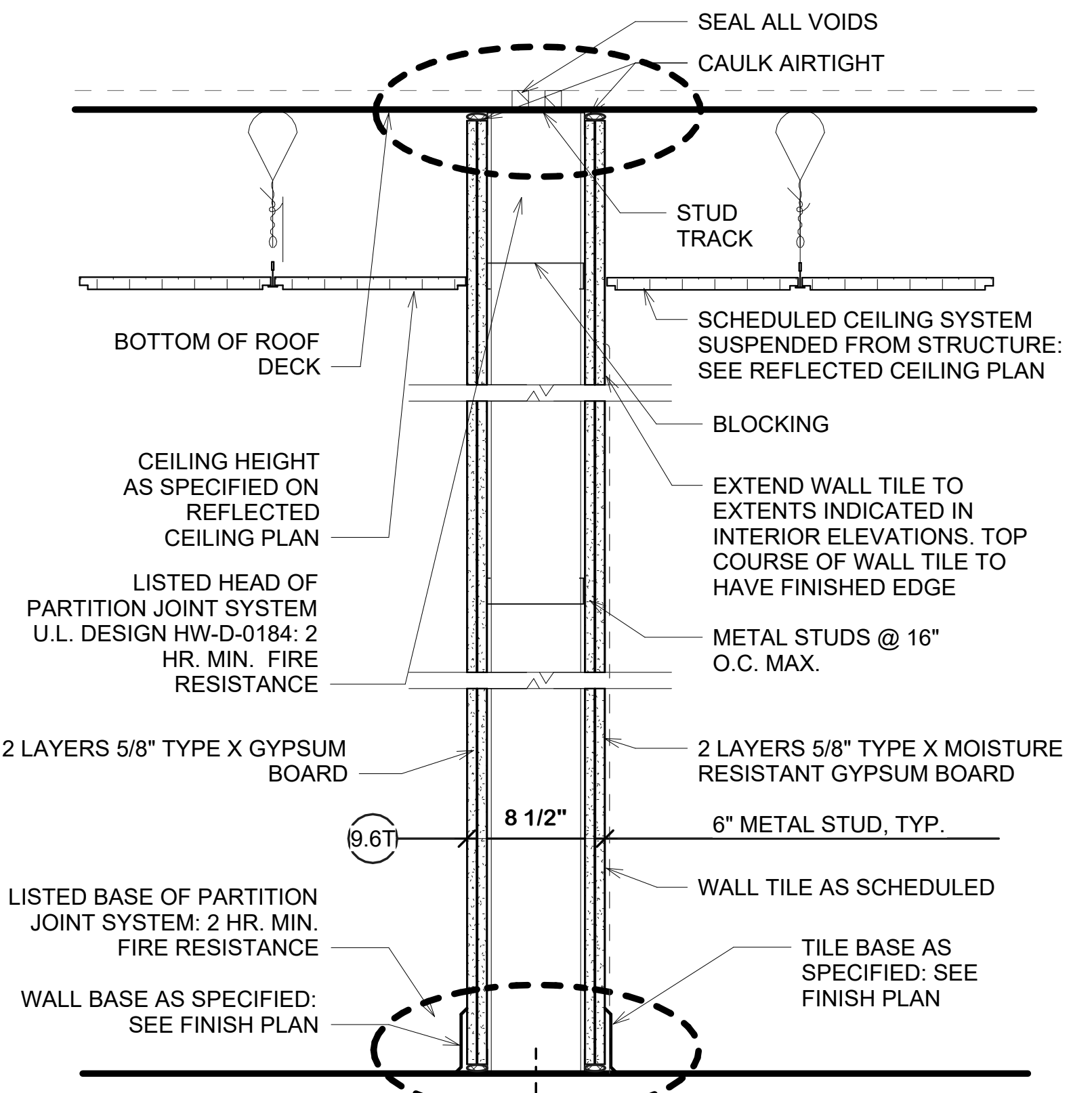
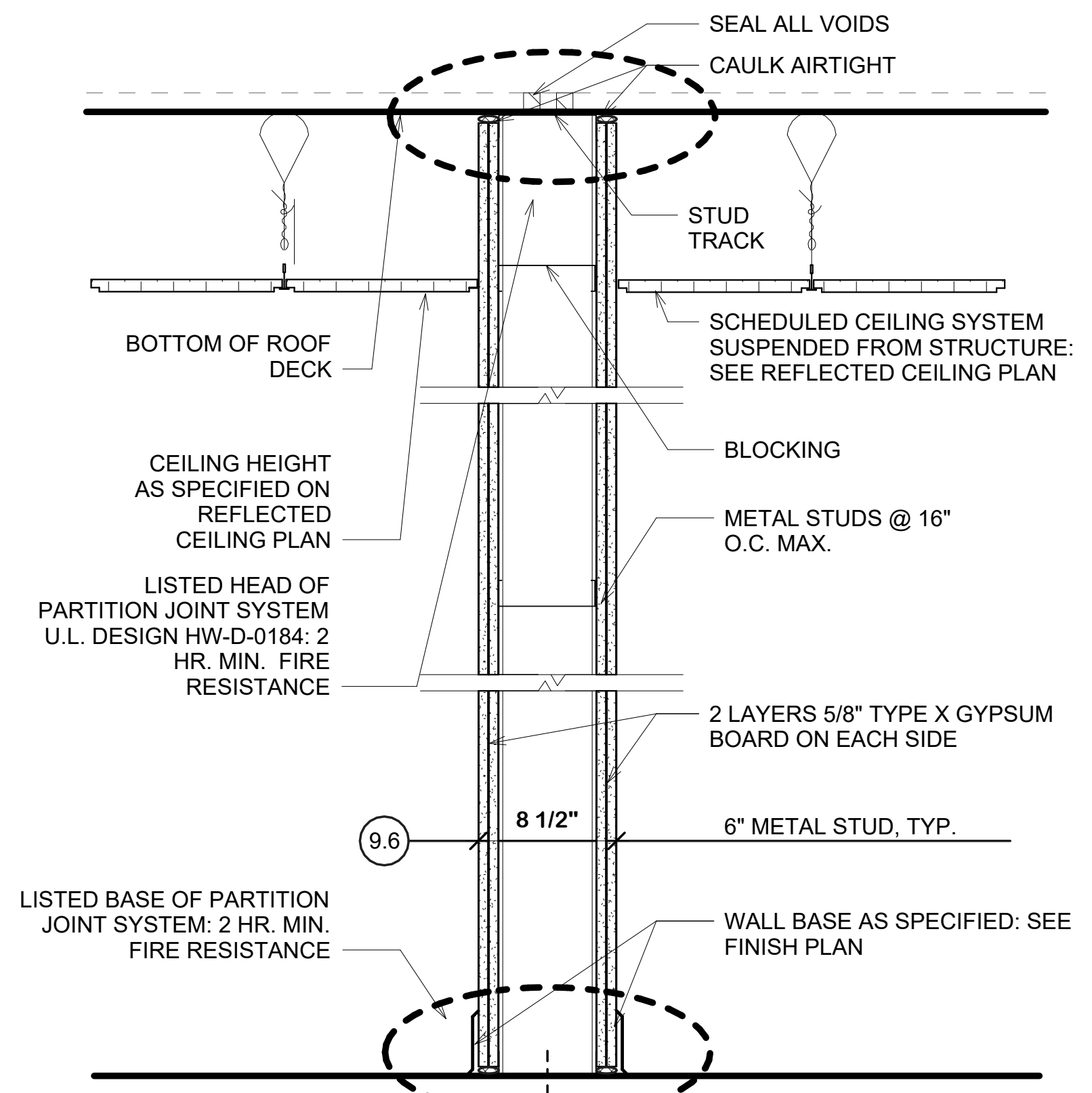
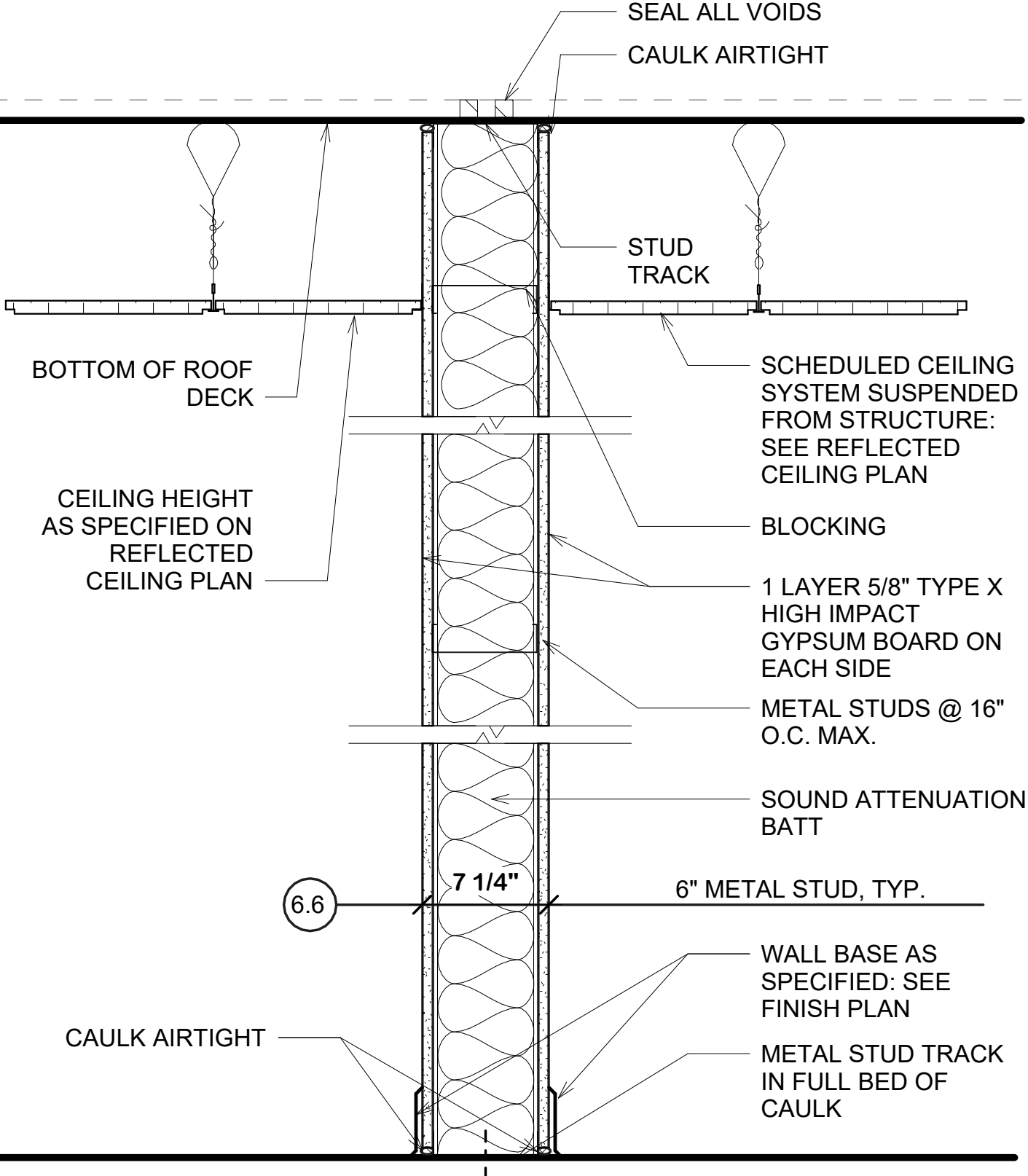
2.6 Furrou Partition

1 1/2" = 1'-0" 2.6T Furrou Partition w/Tile

1 1/2" = 1'-0" 5.6 Full Height Partition

1 1/2" = 1'-0" 5.6T Full Height Partition w/Tile

1 1/2" = 1'-0"



6.6 Sound Treated Partition

1 1/2" = 1'-0" 9.6 2 Hr. Rated Partition

1 1/2" = 1'-0" 9.6T 2 Hr. Rated Partition w/Tile

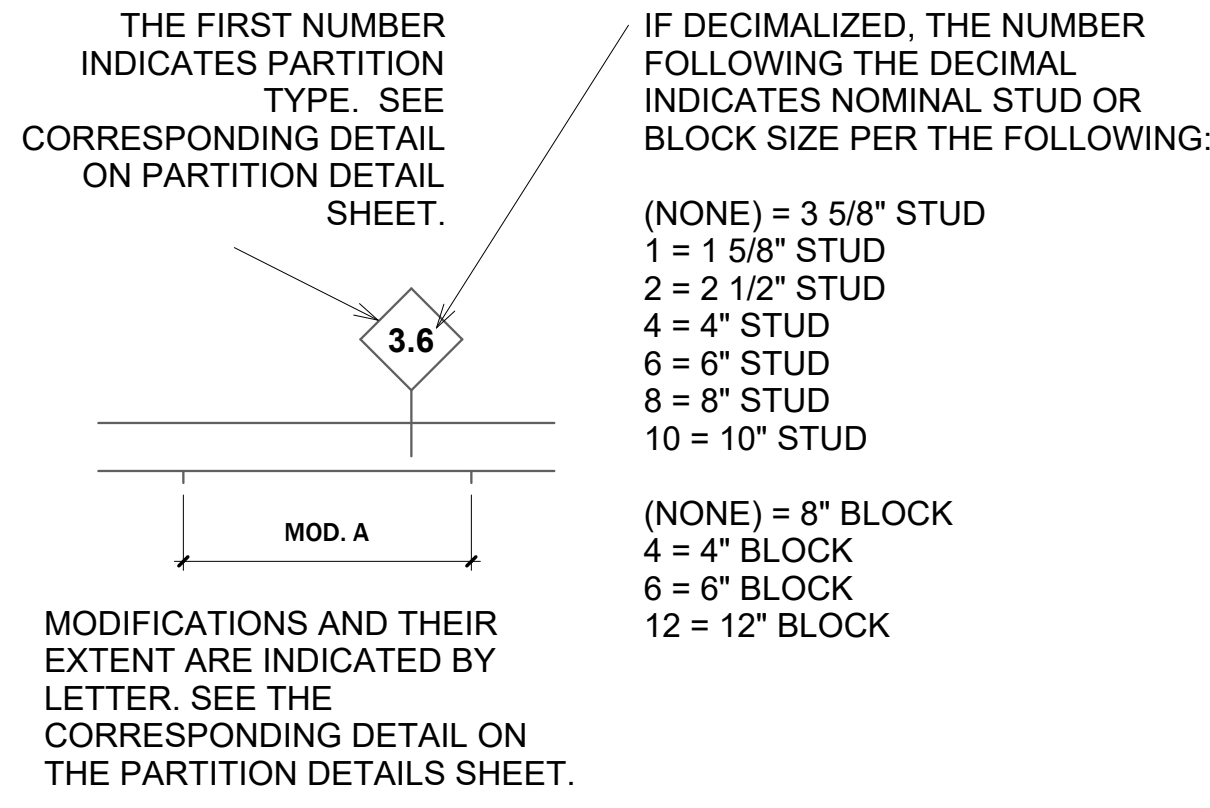
1 1/2" = 1'-0"

M1 1 Hr. Fire Rated CMU Partition

1 1/2" = 1'-0"

GENERAL NOTES, PARTITIONS:

- CONTRACTOR SHALL PERMANENTLY IDENTIFY ALL FIRE RESISTANCE RATED WALLS (AND CORRESPONDING FIRE RESISTANCE RATING) INCLUDING FIRE BARRIER WALLS, SMOKE BARRIER WALLS, FIRE PARTITIONS, FIRE WALLS, AN SHAFT ENCLOSURES BY INSTALLING SIGNS OR BY STENCILING IN CONCEALED SPACES THE FOLLOWING:
1 & 2 HOUR FIRE AND SMOKE BARRIER - PROTECT ALL OPENINGS.
IDENTIFICATION SHALL BE SPACED NO MORE THAN TWELVE (12) FEET ON CENTER WITH A MINIMUM LETTER SIZE OF TWO (2) INCHES IN HEIGHT ON A CONTRASTING BACKGROUND.
- EXTEND AND ANCHOR ALL STUD FRAMING TO STRUCTURE ABOVE UNLESS OTHERWISE NOTED.
- MAINTAIN HORIZONTAL CONTINUITY OF FIRE RATED FLOOR-CEILING AND ROOF-CEILING FIRE RATED ASSEMBLIES OVER TOP OF PARTITIONS, TYPICAL.
- WHERE NO CEILING IS SCHEDULED, EXTEND GYPSUM WALL BOARD TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE.
- WHEN PIPING IS PRESENT IN THE PARTITION, STALL 3" BATT INSULATION ON BOTH SIDES OF THE PIPING.



GENERAL NOTES, SOUND ISOLATION PARTITIONS:

- ALL PARTITIONS DESIGNATED AS SOUND ISOLATION PARTITIONS SHALL RECEIVE ACOUSTICAL SEALANT FOR THE ENTIRE PERIMETER OF THE PARTITION, INCLUDING TOP, SIDES, AND CORNERS, UNLESS SIMILARLY SEALED FOR OTHER REASONS, SUCH AS FIRE RESISTANCE.
- ALL PARTITIONS DESIGNATED AS A SOUND ISOLATION PARTITIONS SHALL RECEIVE ACOUSTICAL SEALANT AT ALL PENETRATIONS WHICH ARE NOT OTHERWISE SEALED AIR TIGHT.
- WHERE BATT INSULATION IS SCHEDULED IN A PARTITION, THE THICKNESS OF THE BATT'S SHALL BE THE LARGEST STANDARD THICKNESS THAT CAN BE CONTAINED WITHIN THE DEPTH OF THE SCHEDULED STUD CAVITY.
- WHERE BATT INSULATION IS SCHEDULED IN A SOUND ISOLATION PARTITION, CUT BATTS 1" WIDER THAN STUD SPACING AND CREASE TO FIT IN CAVITY, TYPICALLY.

GENERAL NOTES, WET LOCATION PARTITIONS:

- GYPSUM WALLBOARD IN ROOMS SUBJECT TO MOISTURE ACCUMULATION SUCH AS TOILETS, SHOWERS, JANITORS CLOSETS, ETC. SHALL BE MOISTURE RESISTANT TYPE.
- USE CEMENTITIOUS TILE BACKER BOARD ON ALL INTERIOR PARTITIONS THAT ARE TO RECEIVE WALL TILE.



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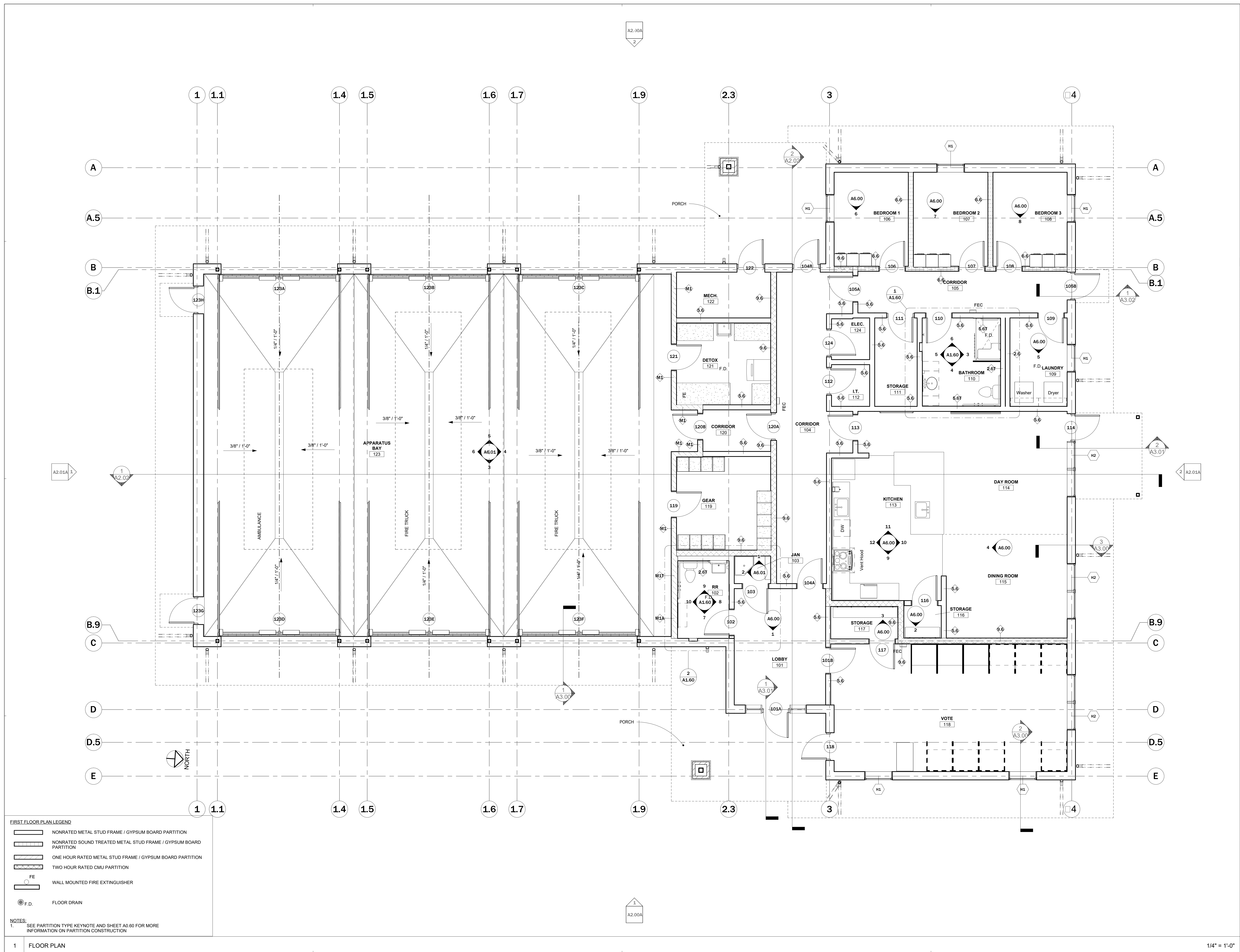
22125

SHEET TITLE

FLOOR PLAN

SHEET NO.

A1.10



FIRST FLOOR PLAN LEGEND

	NONRATED METAL STUD FRAME / GYPSUM BOARD PARTITION
	NONRATED SOUND TREATED METAL STUD FRAME / GYPSUM BOARD PARTITION
	ONE HOUR RATED METAL STUD FRAME / GYPSUM BOARD PARTITION
	TWO HOUR RATED CMU PARTITION
	FE WALL MOUNTED FIRE EXTINGUISHER
	F.D. FLOOR DRAIN

NOTES:
1. SEE PARTITION TYPE KEYNOTE AND SHEET A0.60 FOR MORE INFORMATION ON PARTITION CONSTRUCTION



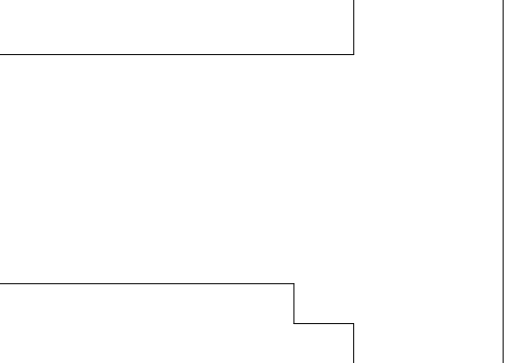
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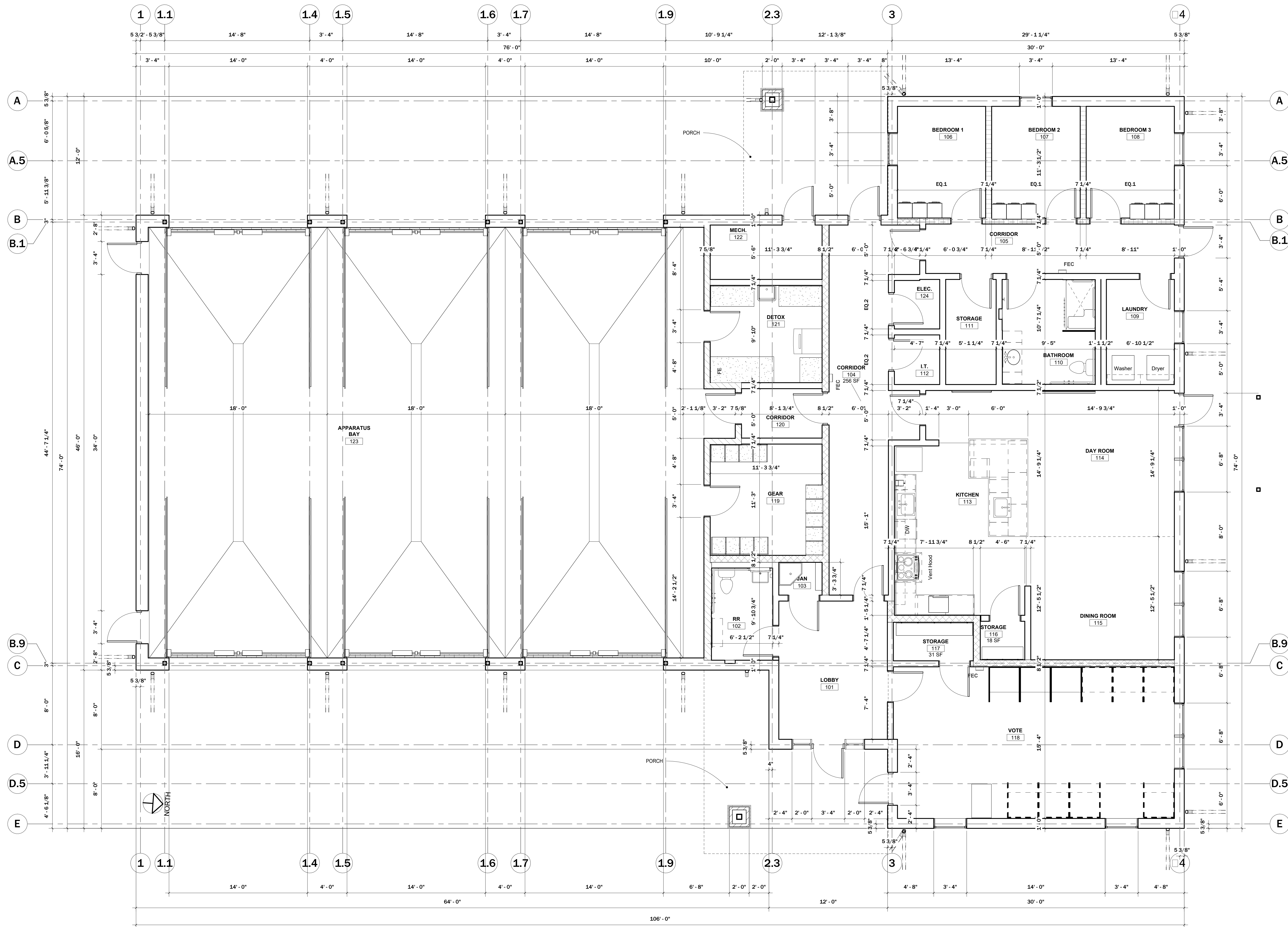
22125

SHEET TITLE

DIMENSION PLAN

SHEET NO.

A1.20





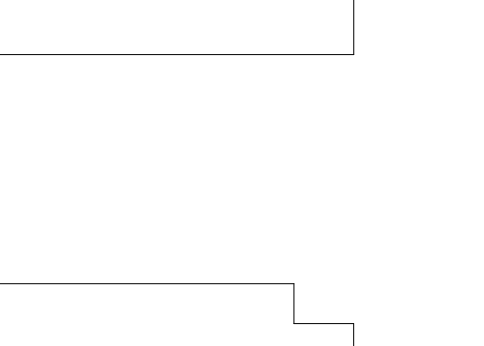
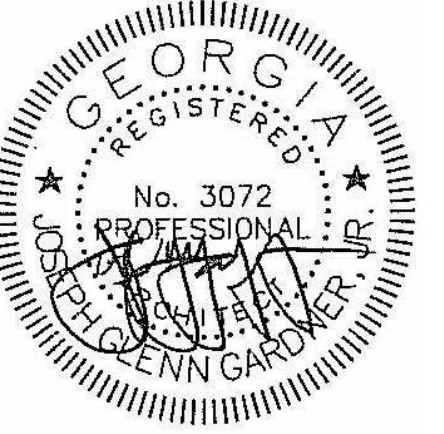
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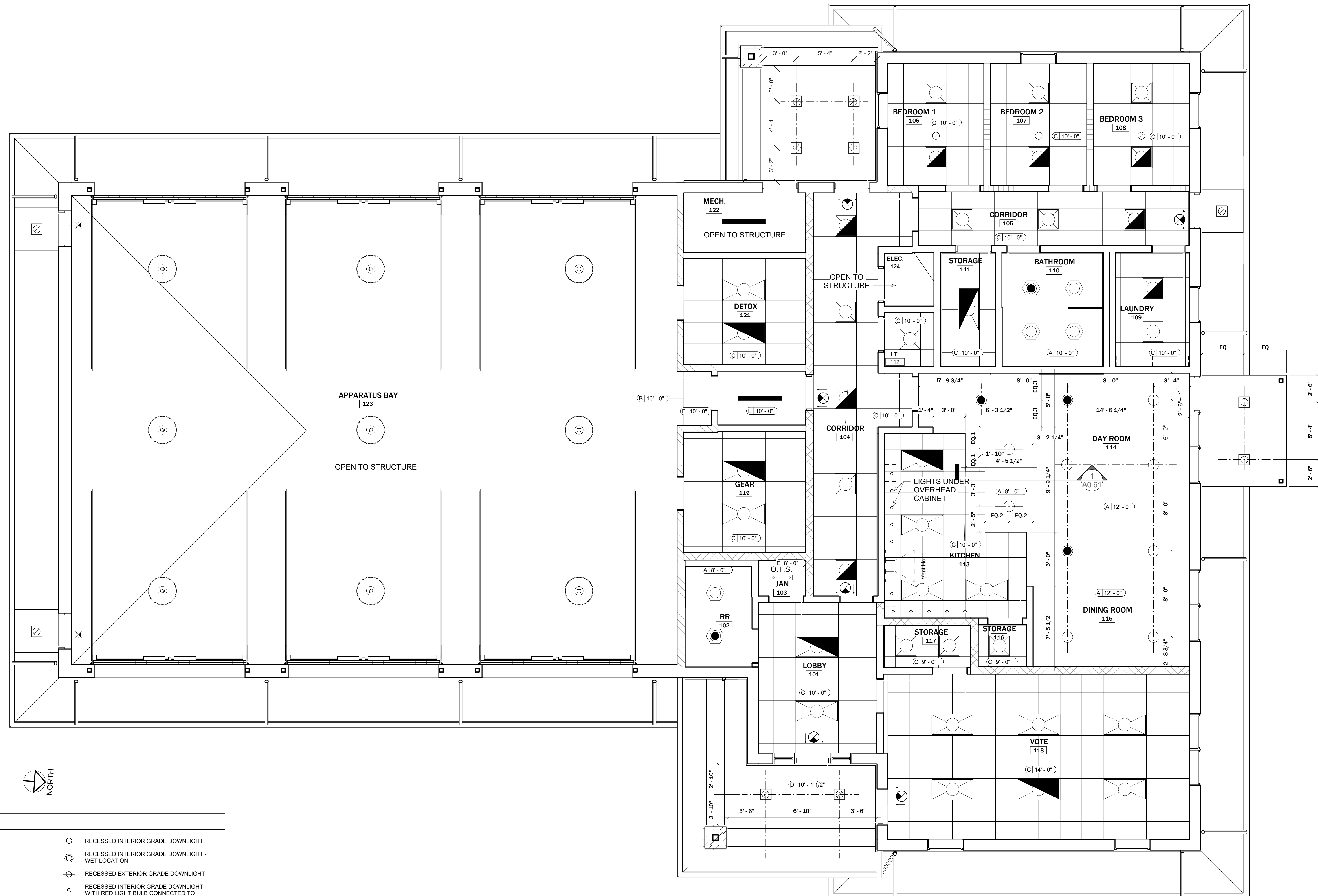
22125

SHEET TITLE

REFLECTED CEILING PLAN

SHEET NO.

A1.30



ALL EXTERIOR DOORS TO HAVE A HALF PANEL OF GLASS

RCP LEGEND

CEILING MATERIAL LEGEND	○ RECESSED INTERIOR GRADE DOWNLIGHT
A GYPSUM BOARD CEILING ON METAL STUD	⊙ RECESSED INTERIOR GRADE DOWNLIGHT - WET LOCATION
B BULKHEAD	⊕ RECESSED EXTERIOR GRADE DOWNLIGHT
C ACOUSTICAL CEILING TYPE ACT-1	⊙ RECESSED INTERIOR GRADE DOWNLIGHT WITH RED LIGHT BULB CONNECTED TO ALARM SYSTEM
D SOFFIT	⊠ 2' X 2' RECESSED TROFFER
E TBD	⊠ 2' X 4' RECESSED TROFFER
MATERIAL → A | 1'-0" ← HEIGHT A.F.F., U.N.O.	○ HIGH BAY LIGHT FIXTURES SUSPENDED FROM STRUCTURE
	— 48" LINEAR PENDANT FIXTURE SUSPENDED FROM STRUCTURE
	— 48" LINEAR PENDANT FIXTURE SUSPENDED FROM STRUCTURE
	⊙ CEILING MOUNTED SPEAKER
	⊗ CEILING MOUNTED SINGLE FACE EXIT SIGN
	⊗ WALL MOUNTED SINGLE FACE EXIT SIGN
	⊗⊗ CEILING MOUNTED DOUBLE FACE EXIT SIGN WITH ARROWS



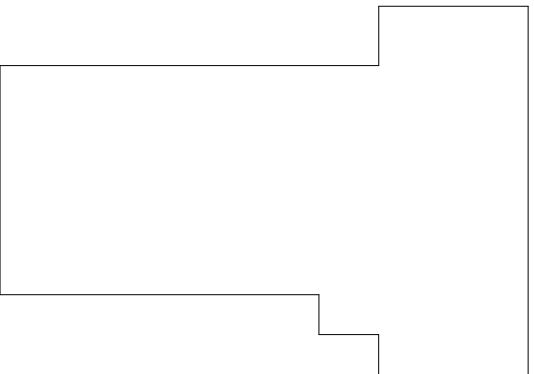
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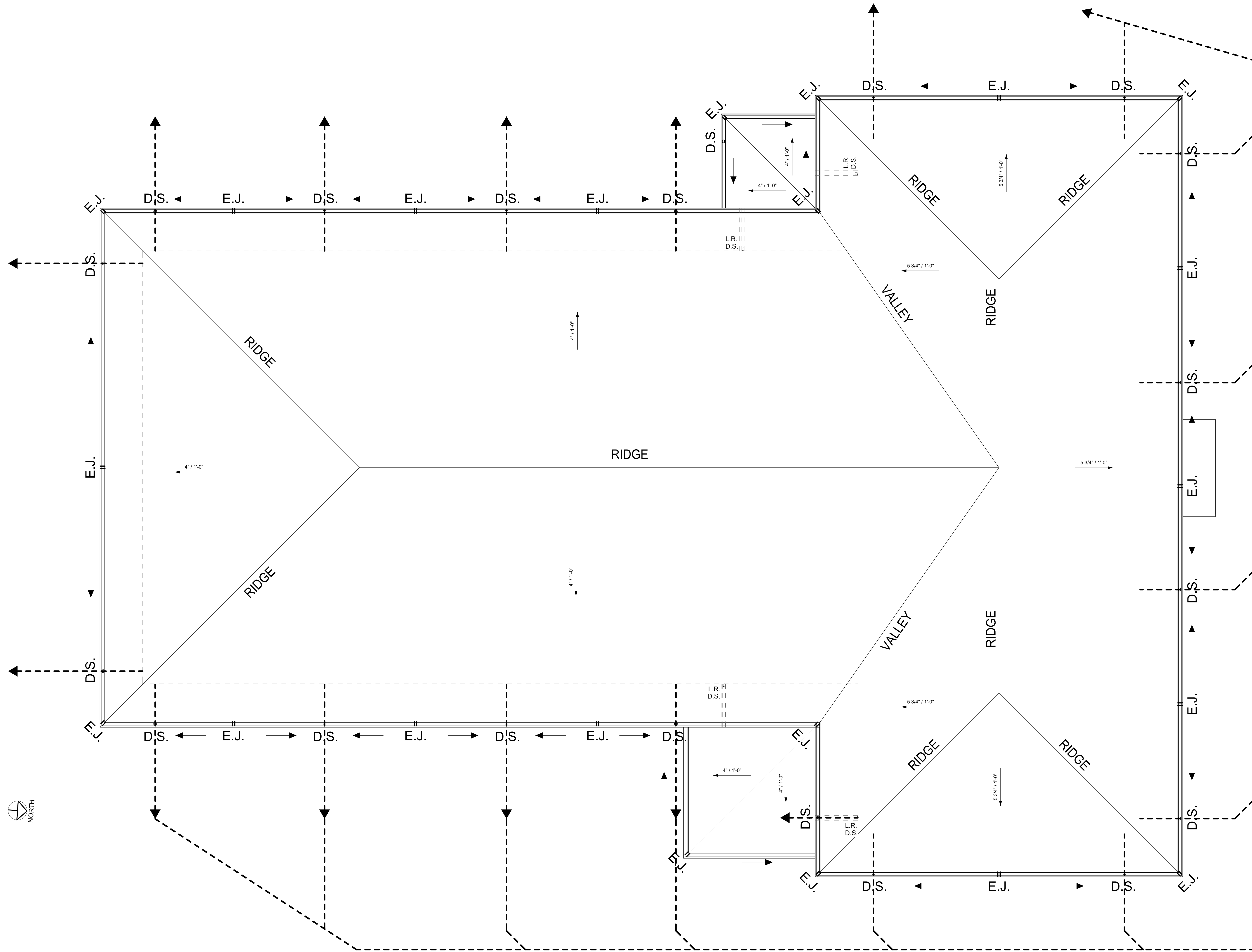
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22125

SHEET TITLE
ROOF PLAN

SHEET NO.
A1.41





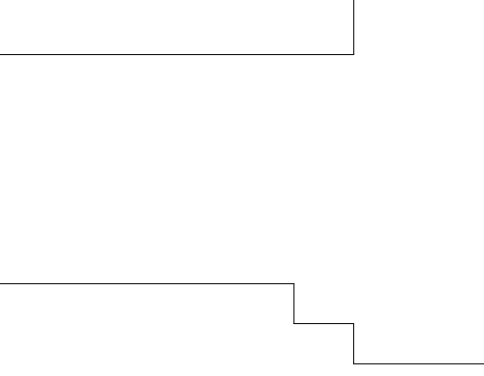
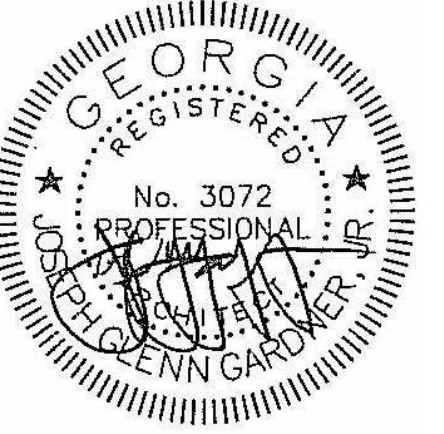
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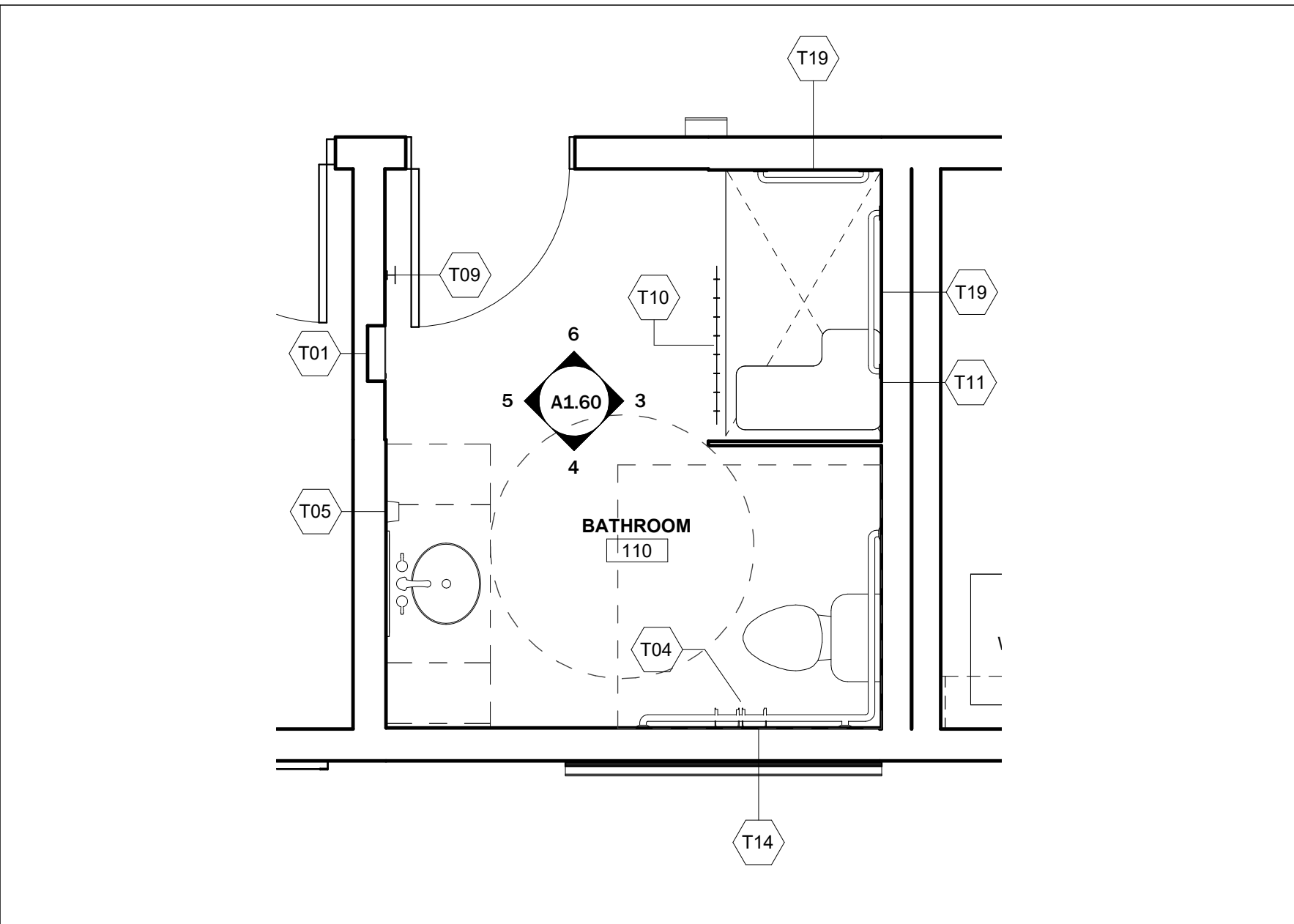
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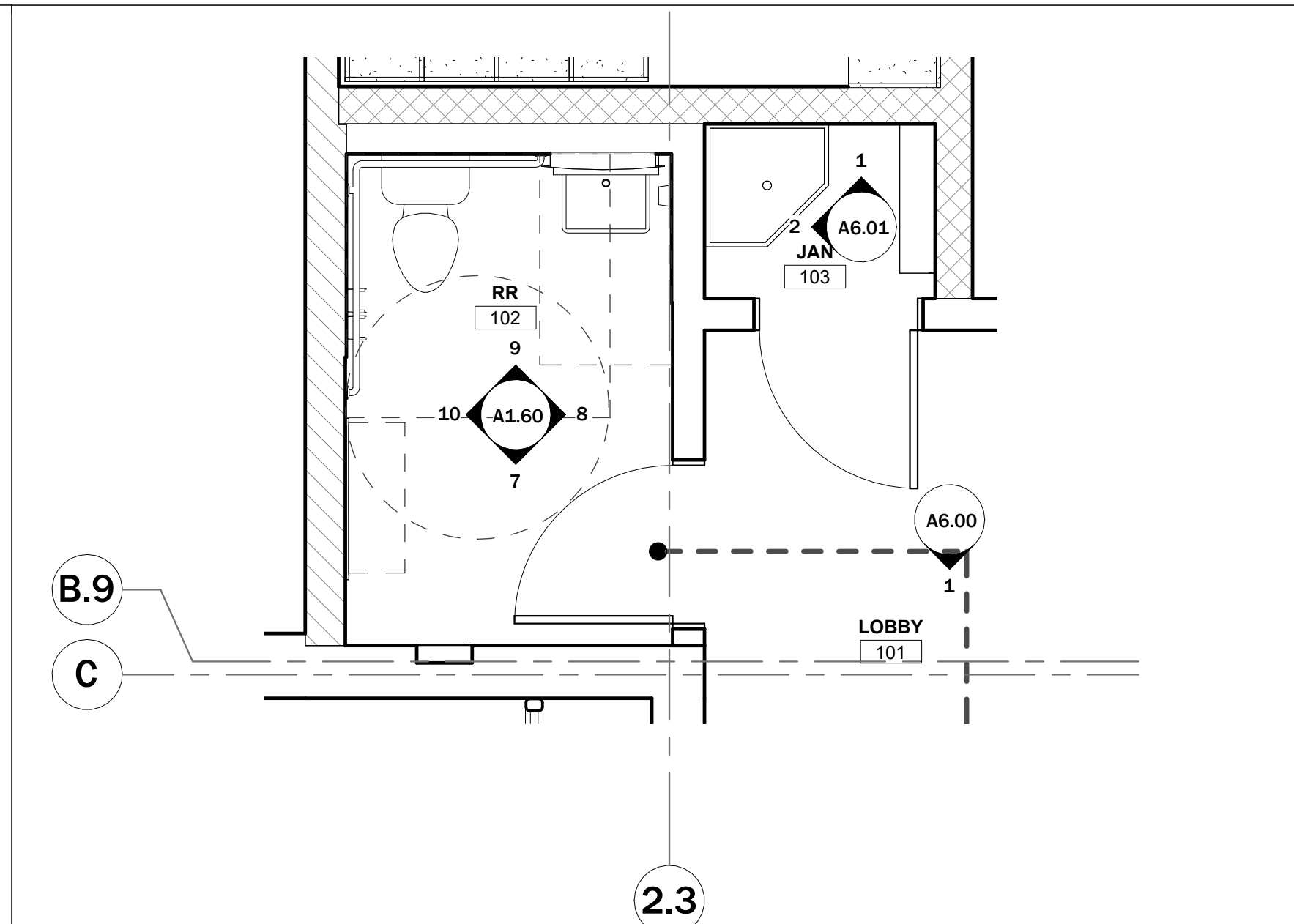
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SHEET TITLE ENLARGED PLANS - TOILETS

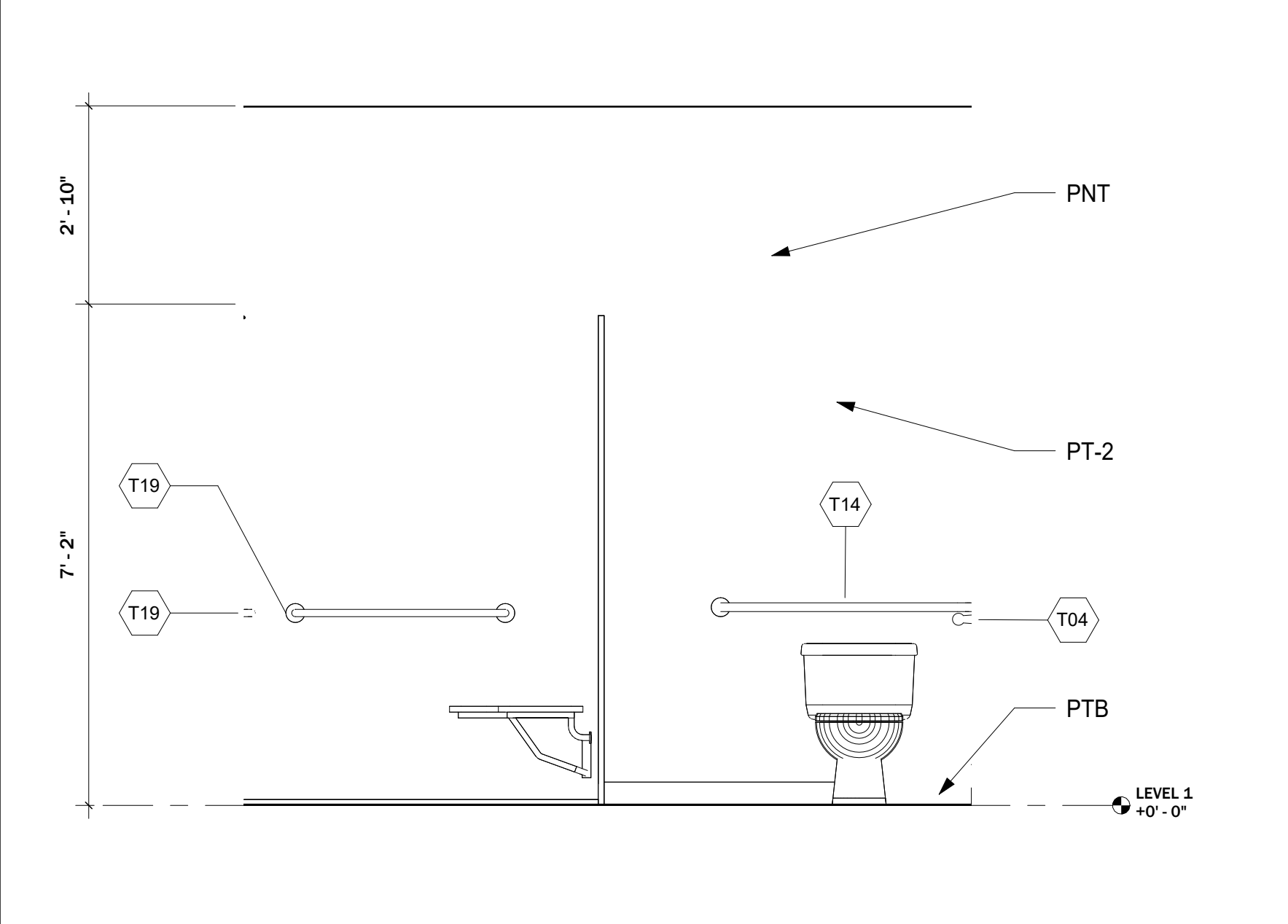
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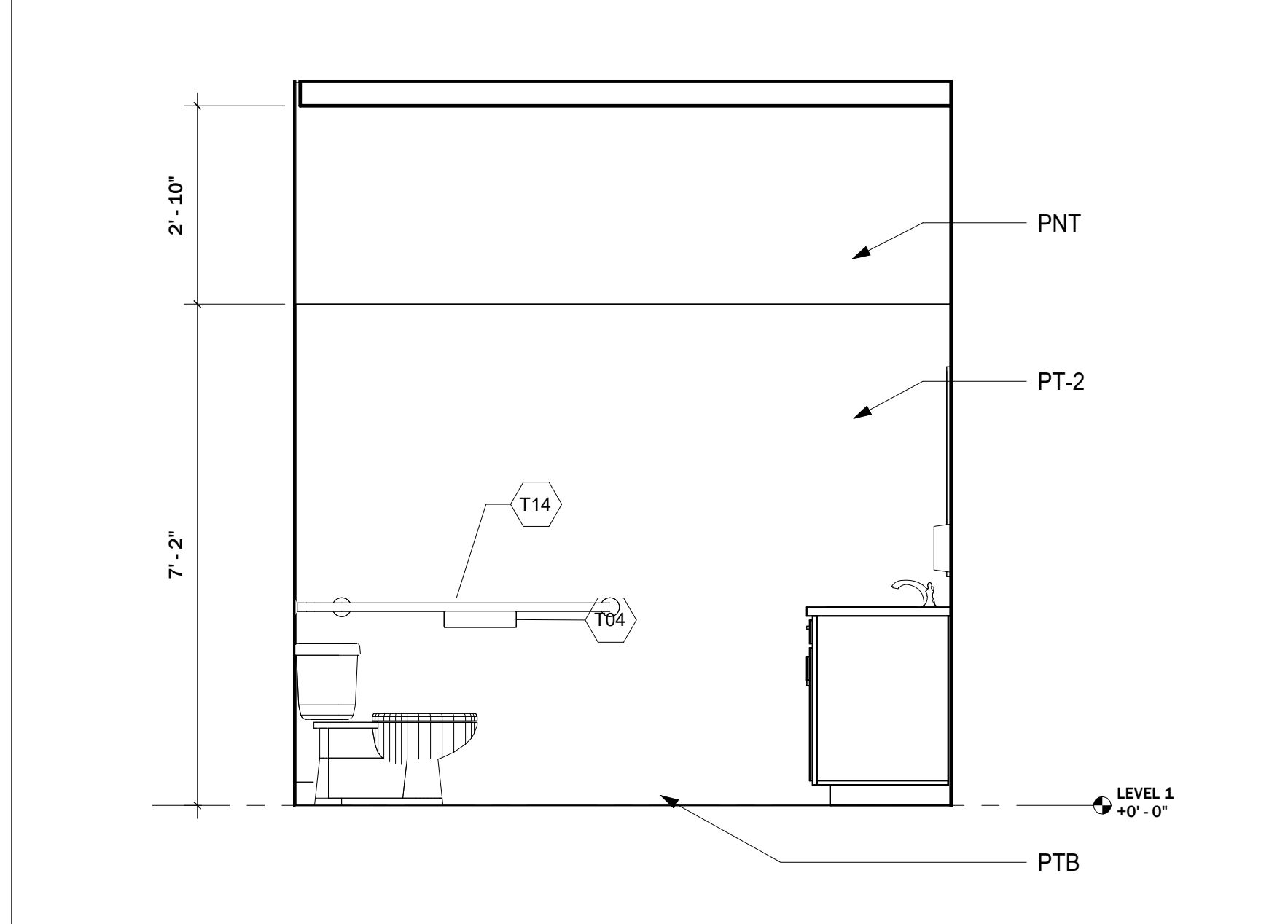
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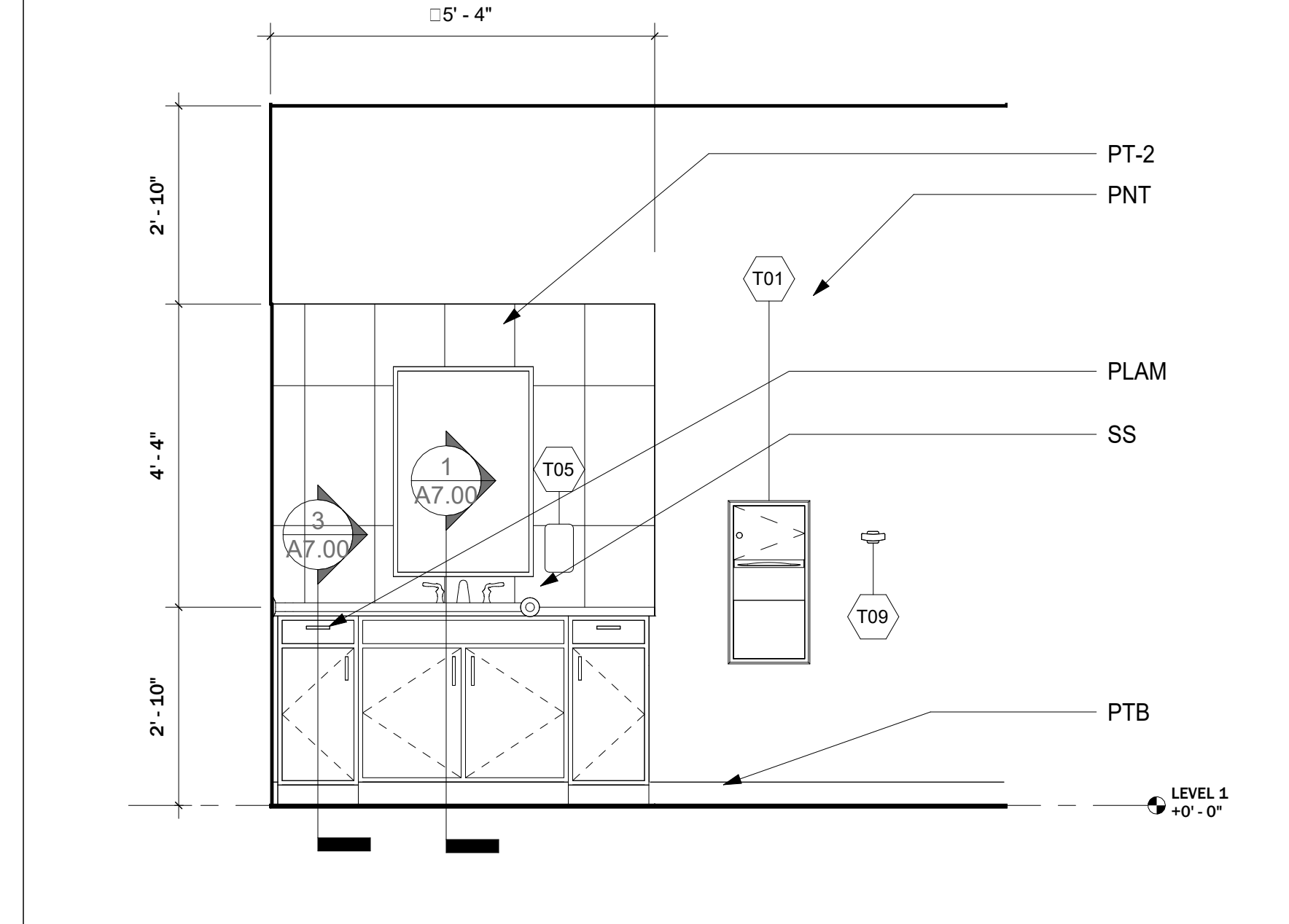
2 Enlarged Plan - RR 102 3/8" = 1'-0"



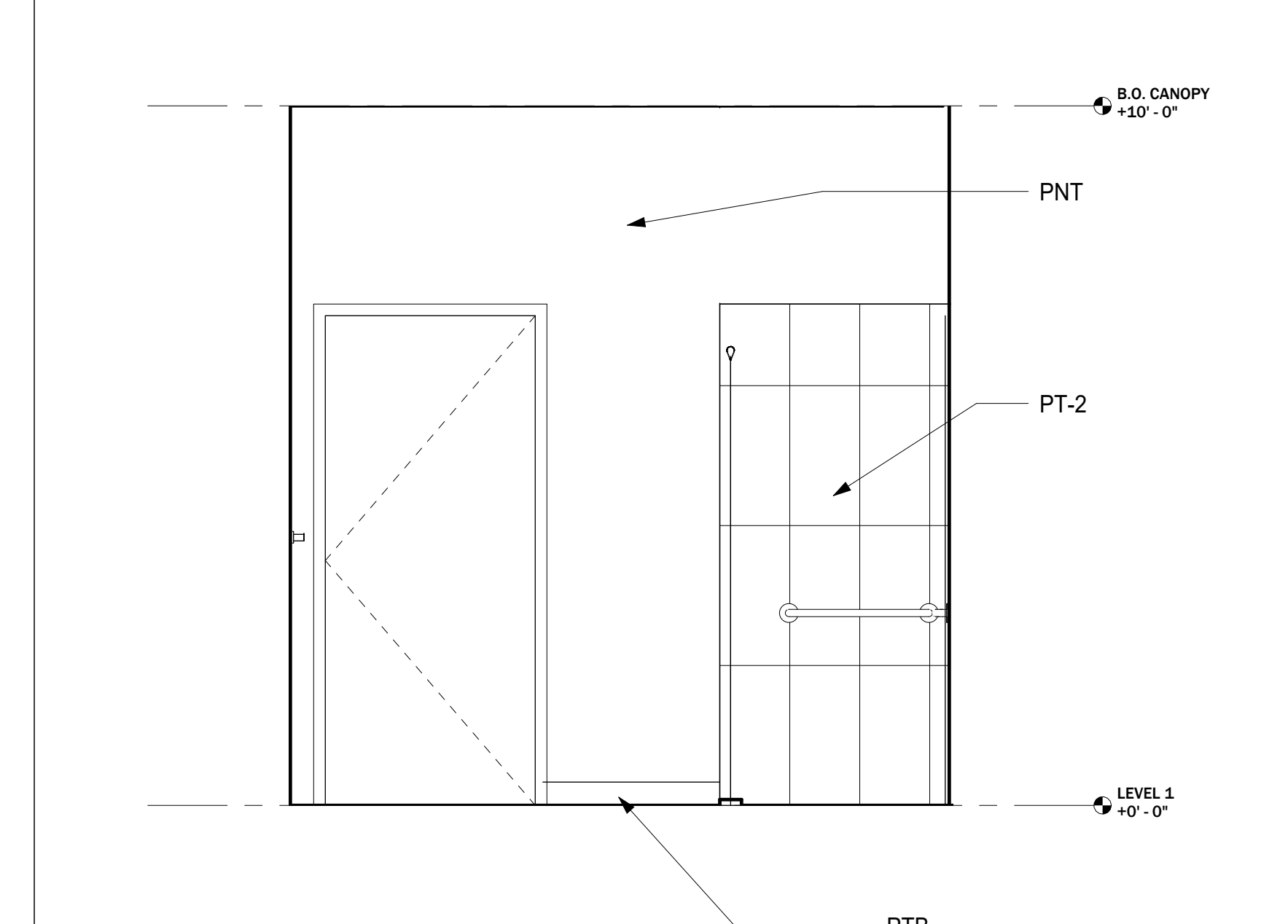
3 Bathroom 110 1/2" = 1'-0"



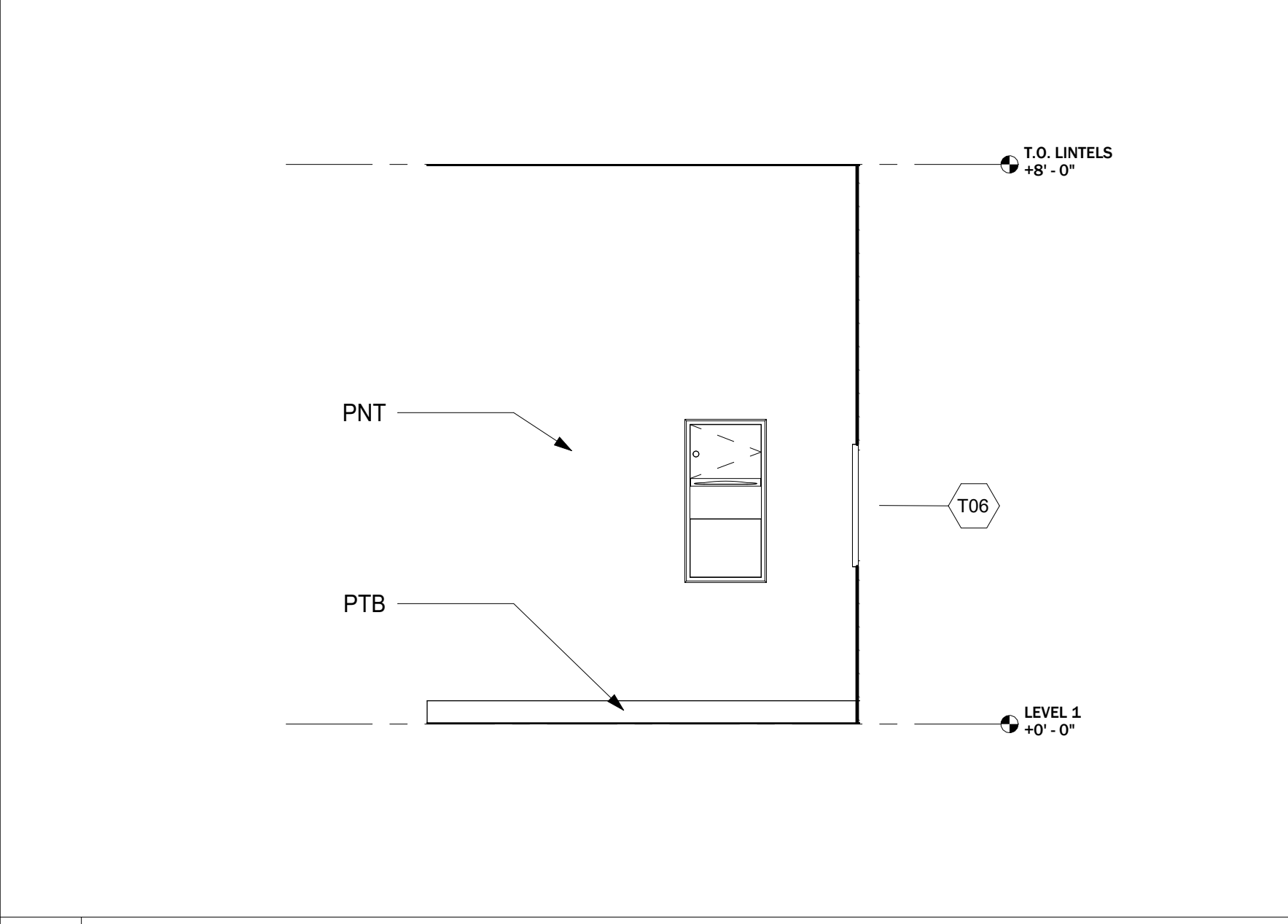
4 Bathroom 110 1/2" = 1'-0"



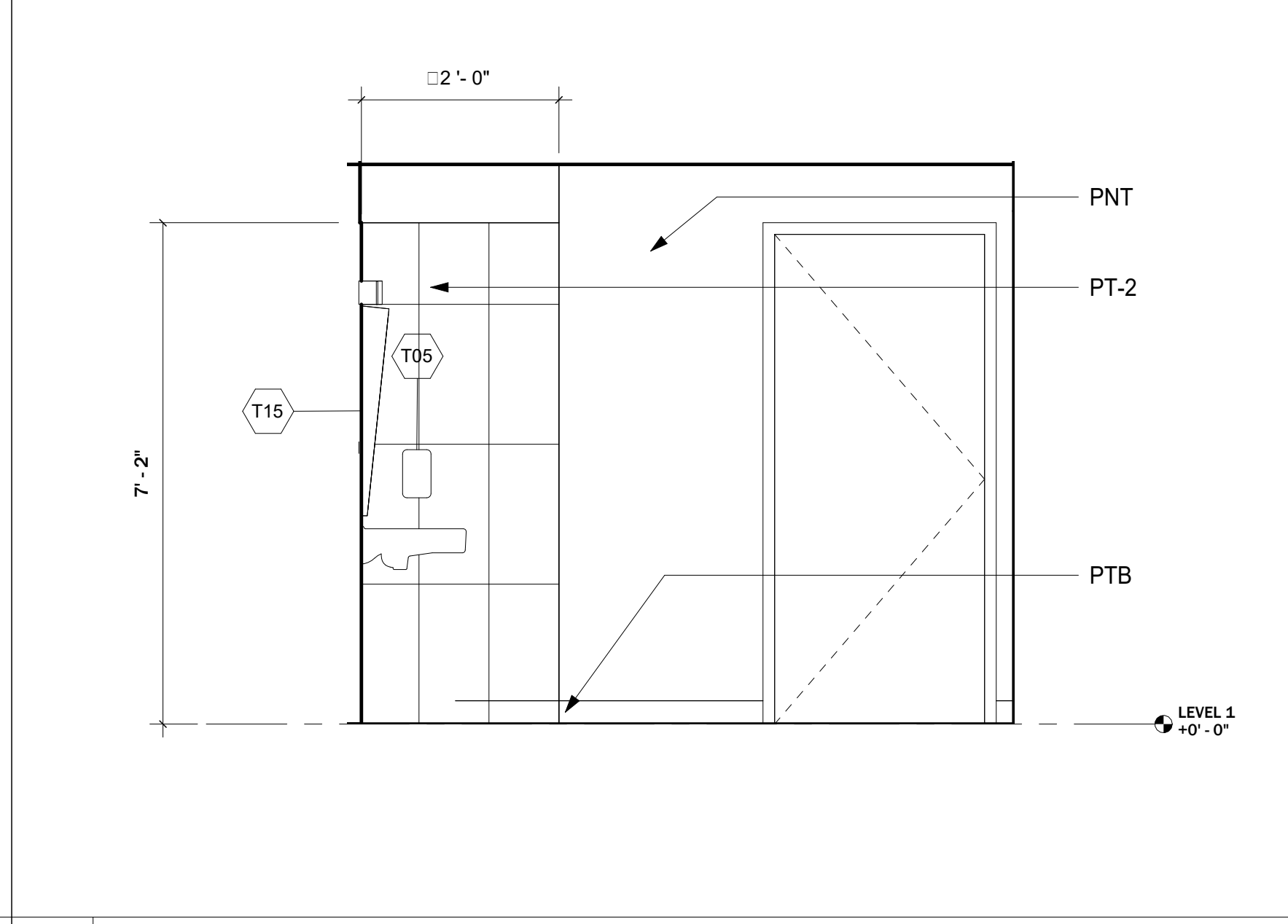
5 Bathroom 110 1/2" = 1'-0"



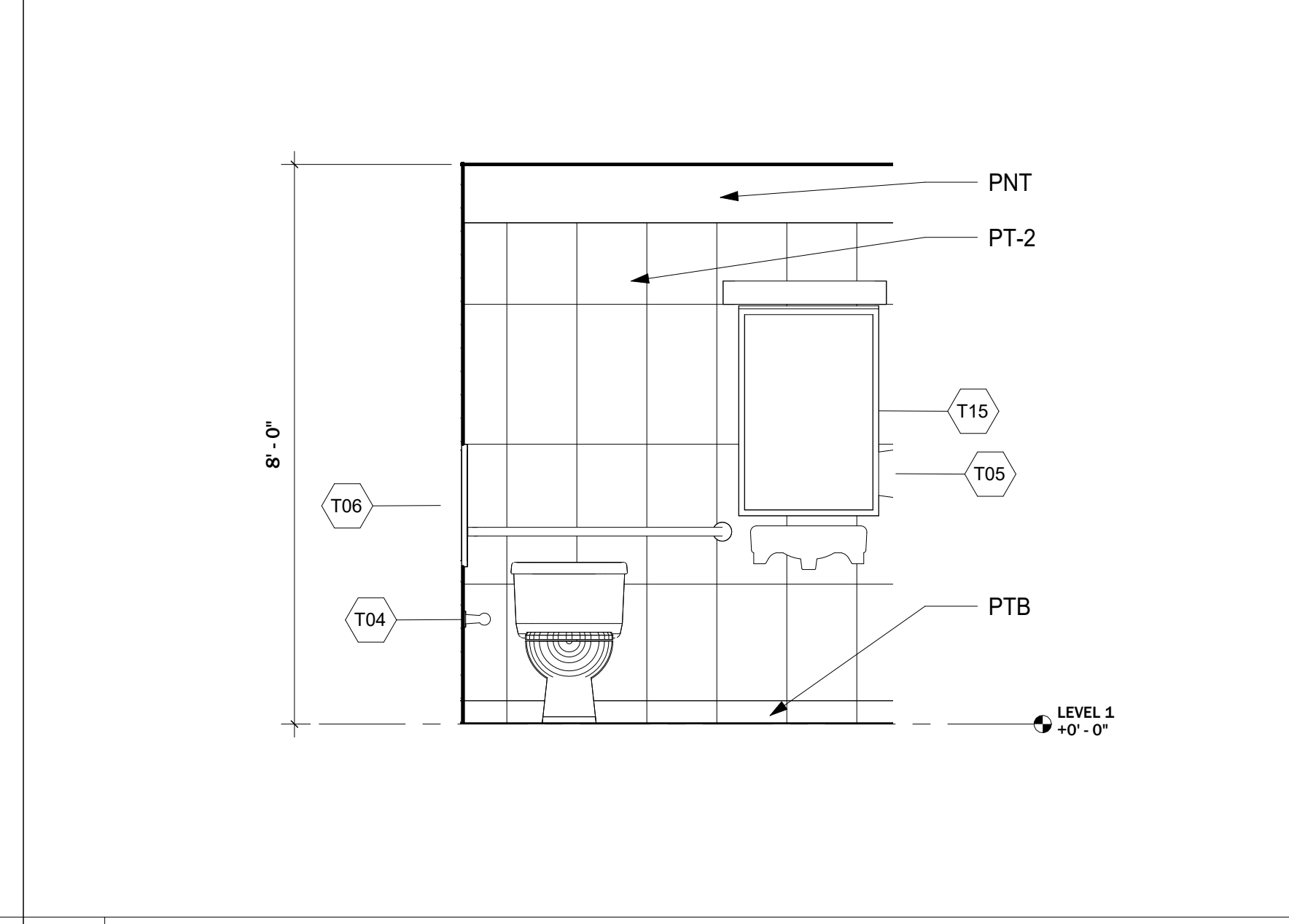
6 Bathroom 110 1/2" = 1'-0"



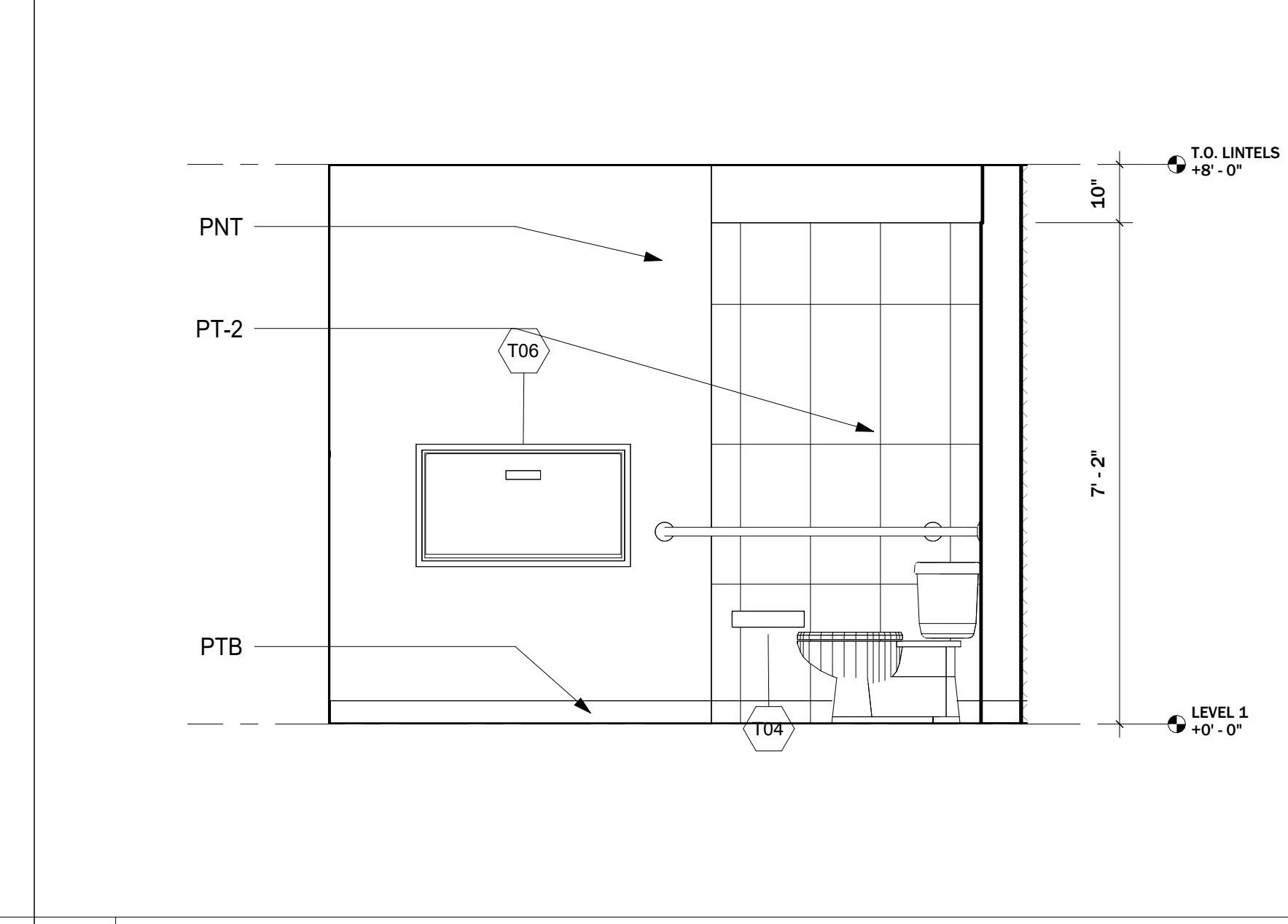
7 RR 102 1/2" = 1'-0"



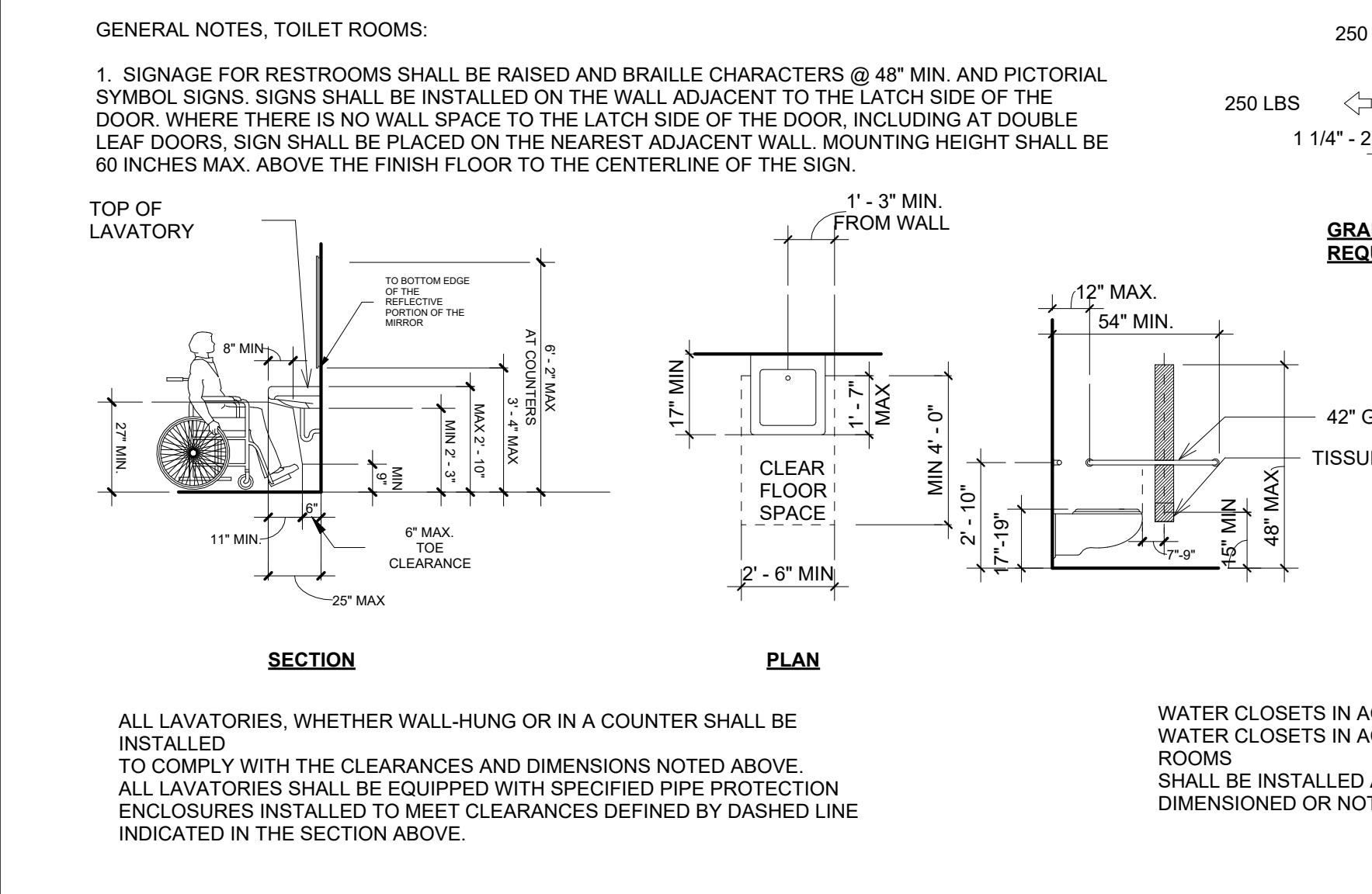
8 RR 102 1/2" = 1'-0"



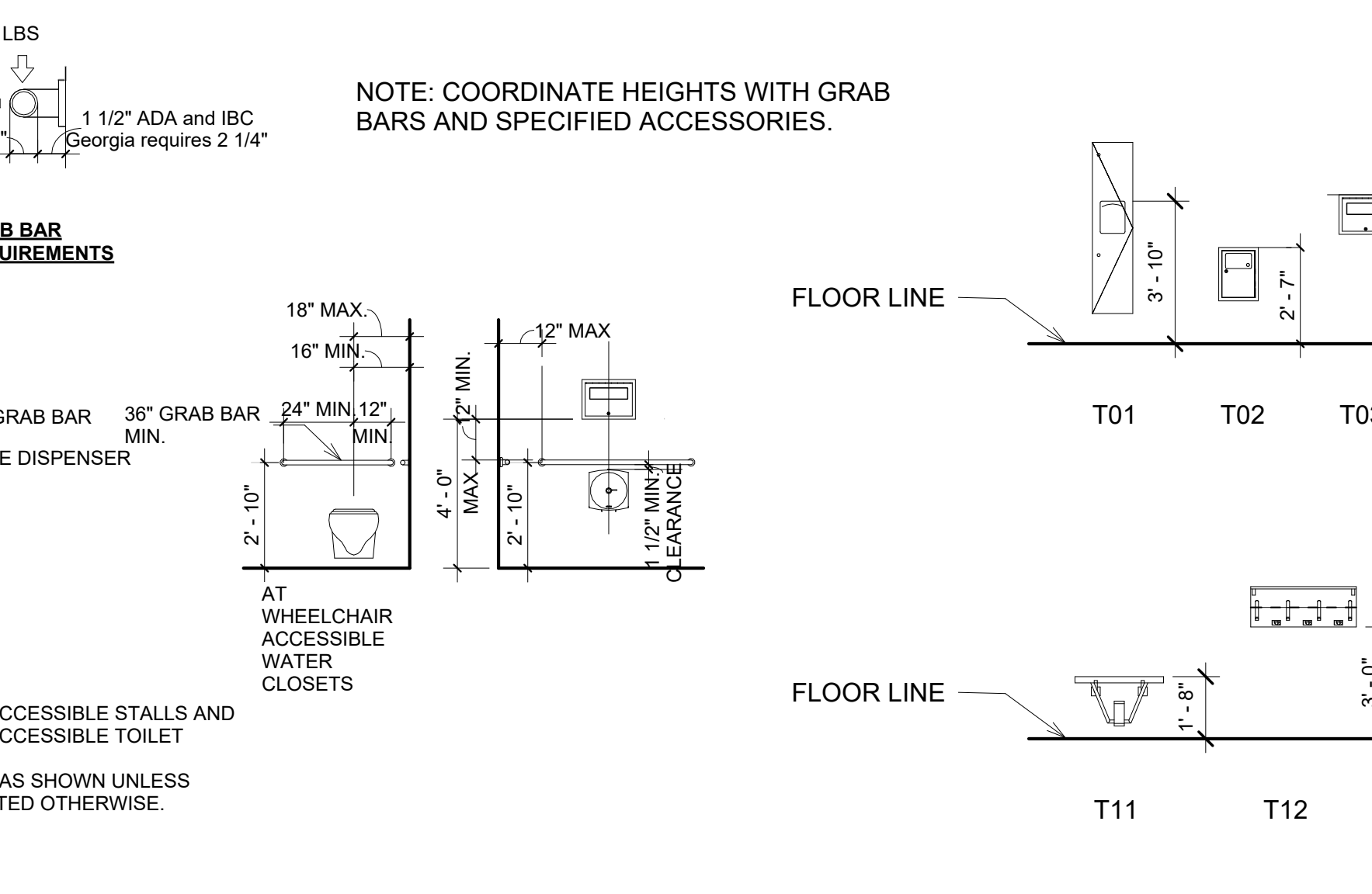
9 RR 102 1/2" = 1'-0"



10 RR 102 1/2" = 1'-0"



Toilet Mounting Heights 1/4" = 1'-0"



TOILET ACCESSORY SCHEDULE

MARK	DESCRIPTION	Notes
T01	COMBINATION PAPER TOWEL DISPENSER & WASTE - LARGE	NOT USED
T02	SURFACE MOUNTED SANITARY NAPKIN DISPOSAL	
T03	TOILET SEAT COVER DISPENSER	NOT USED
T04	SURFACE MOUNTED TOILET TISSUE DISPENSER	
T05	SURFACE MOUNTED SOAP DISPENSER	
T06	SURFACE MOUNTED BABY CHANGING STATION	
T07	HOOK WITH BUMPER	
T08	SURFACE MOUNTED TOWEL RACK	NOT USED
T09	T-HOOK	
T10	SHOWER CURTAIN ROD AND VINYL CURTAIN	
T11	FOLDING SHOWER SEAT	NOT USED
T12	MOP RACK WITH SHELF	
T13	FRAMED FLAT MIRROR 24"W X 36"H WITH BUILT IN LIGHTING	
T14	TWO WALL 36" X 54" GRAB BAR	
T15	FRAMED TILT MIRROR 24"W X 36"H WITH BUILT IN LIGHTING	
T16	FRAMED FULL LENGTH 24"W X 60"H FLAT MIRROR	
T17	SURFACE MOUNTED SOAP DISH	
T18	HAND DRYER	
T19	36" MAX GRAB BAR	
T20		
T21		

EXTERIOR FINISHES:

- BRICK-1 ACME MUSHROOM BROWN, MODULAR SIZE
- BRICK-2 ACME DOESKIN, MODULAR SIZE
- MORTAR GMS KOOSA LIGHT BUFF
- PNT-3 ACCENT PAINT BY SHERWIN WILLIAMS, #SW 9151 DAPHNE, ONLY WHERE NOTED.
- PNT-5 PAINT BY SHERWIN WILLIAMS, #SW 6871 POSITIVE RED. THIS PAINT IS ONLY FOR THE TRUCK BAY DOORS, FRONT AND BACK
- ASPHALT SHINGLE GAF AMBER WHEAT



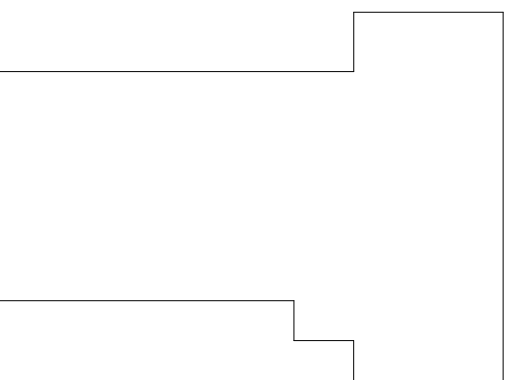
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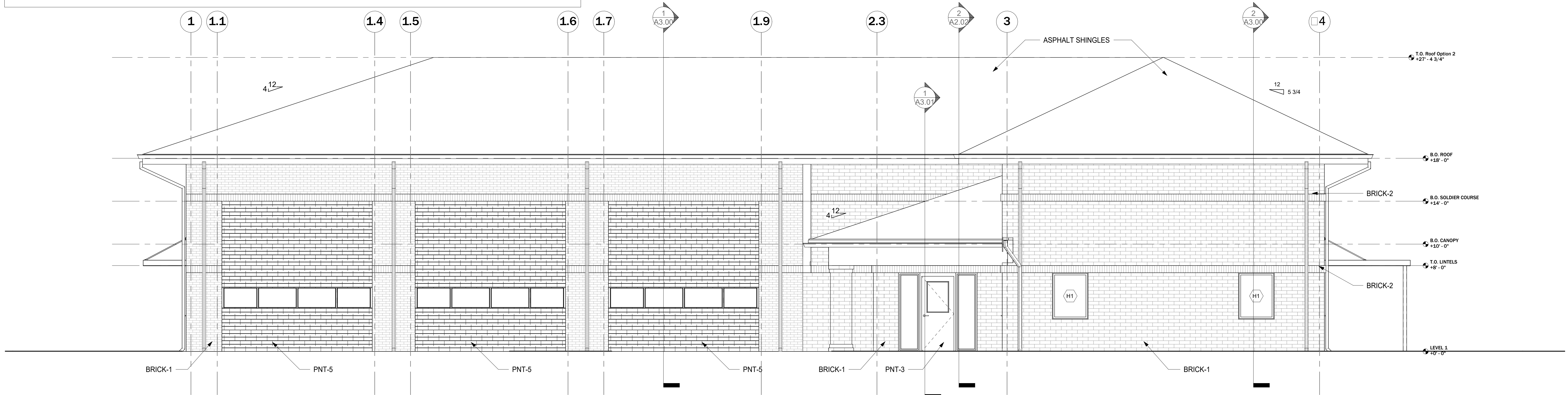
22125

SHEET TITLE

EXTERIOR
ELEVATIONS

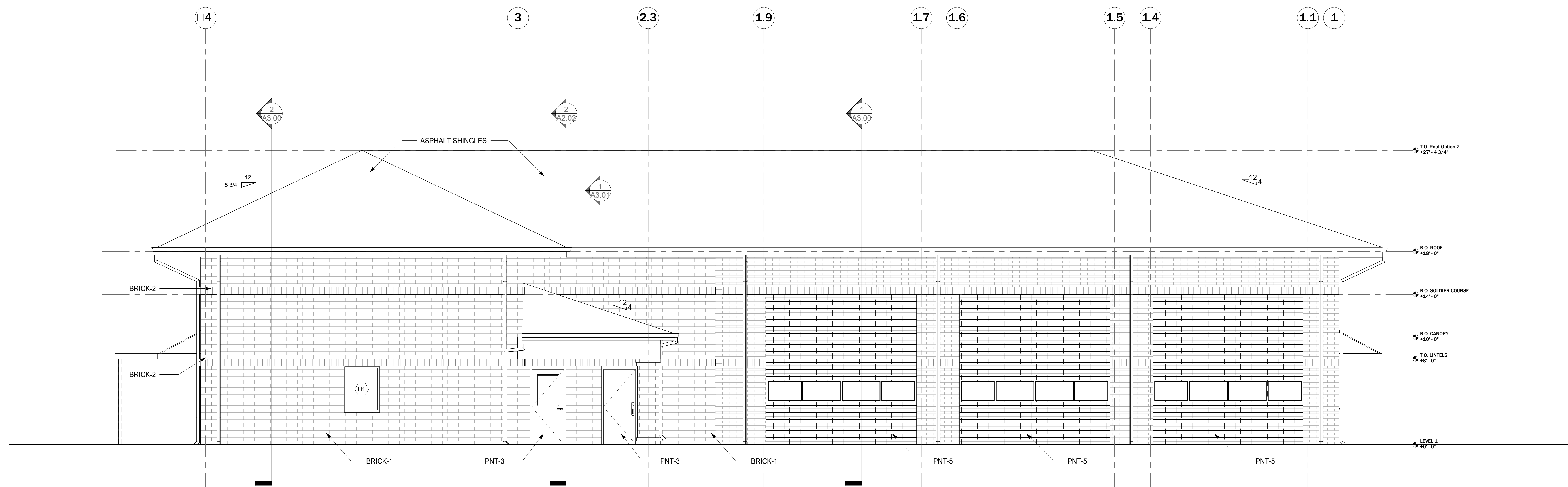
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A2.00A



1 FRONT ELEVATION

1/4" = 1'-0"



2 REAR ELEVATION

1/4" = 1'-0"



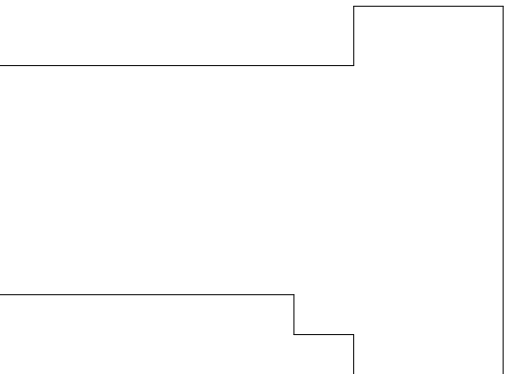
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404.521.2118 (f)

PROJECT NO.

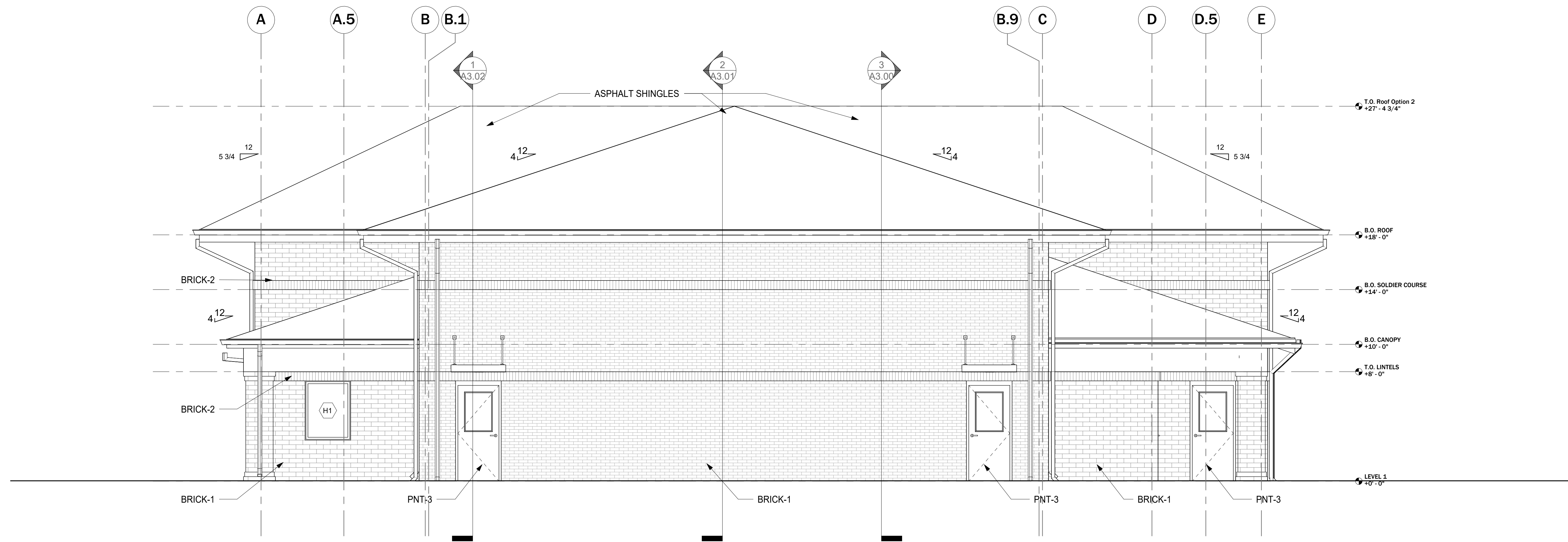
22125

SHEET TITLE

EXTERIOR
ELEVATIONS

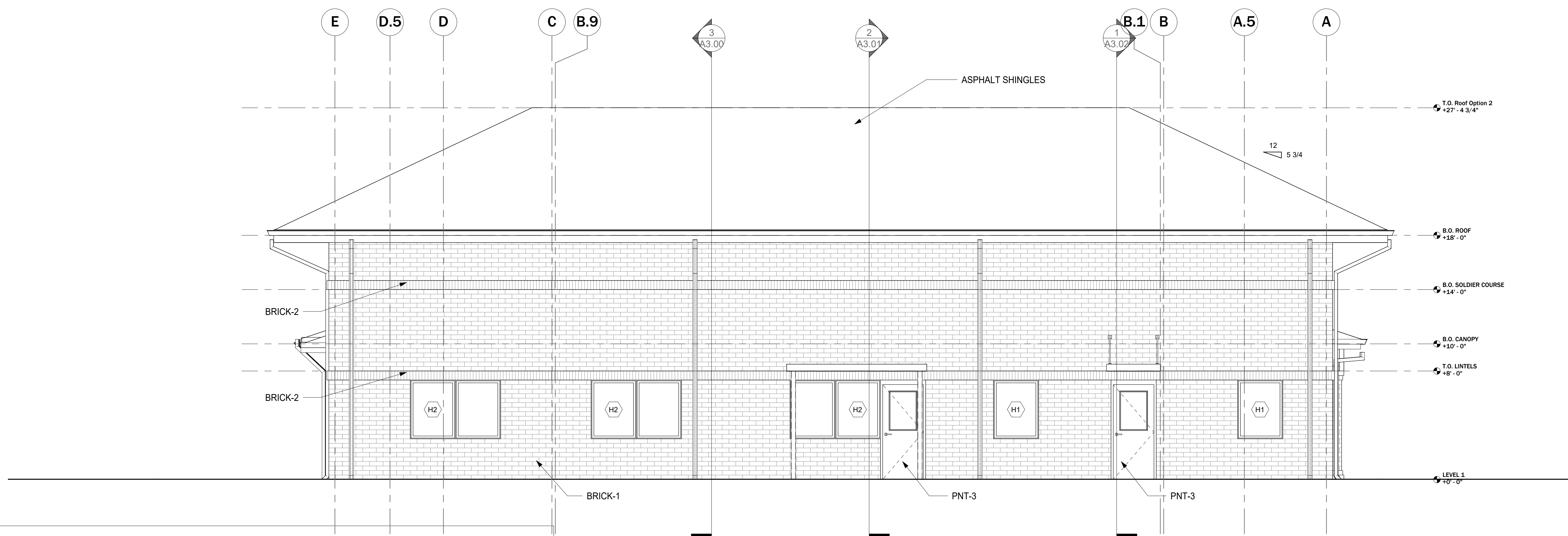
SHEET NO.

A2.01A



1 WESTERN ELEVATION

1/4" = 1'-0"



EXTERIOR FINISHES:

- BRICK-1 ACME MUSHROOM BROWN, MODULAR SIZE
- BRICK-2 ACME DOESKIN, MODULAR SIZE
- MORTAR GMS KOOSA LIGHT BUFF
- PNT-3 ACCENT PAINT BY SHERWIN WILLIAMS, #SW 9151 DAPHNE, ONLY WHERE NOTED.
- PNT-5 PAINT BY SHERWIN WILLIAMS, #SW 6871 POSITIVE RED. THIS PAINT IS ONLY FOR THE TRUCK BAY DOORS, FRONT AND BACK
- ASPHALT SHINGLE GAF AMBER WHEAT

2 EASTERN ELEVATION

1/4" = 1'-0"



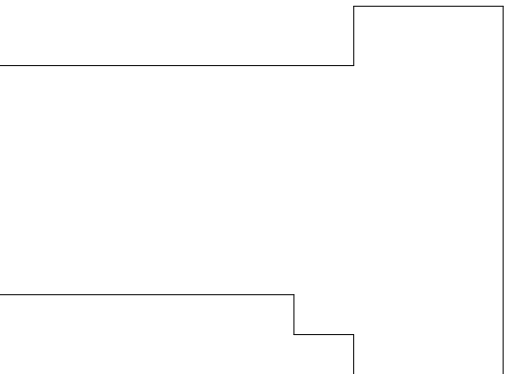
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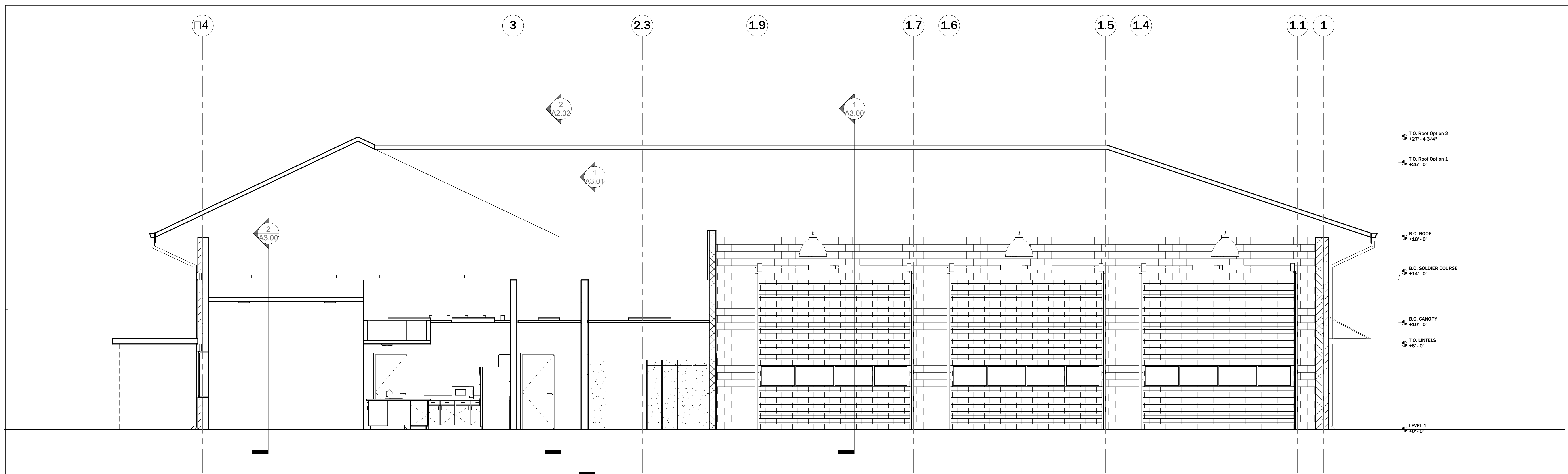
22125

SHEET TITLE

BUILDING SECTIONS

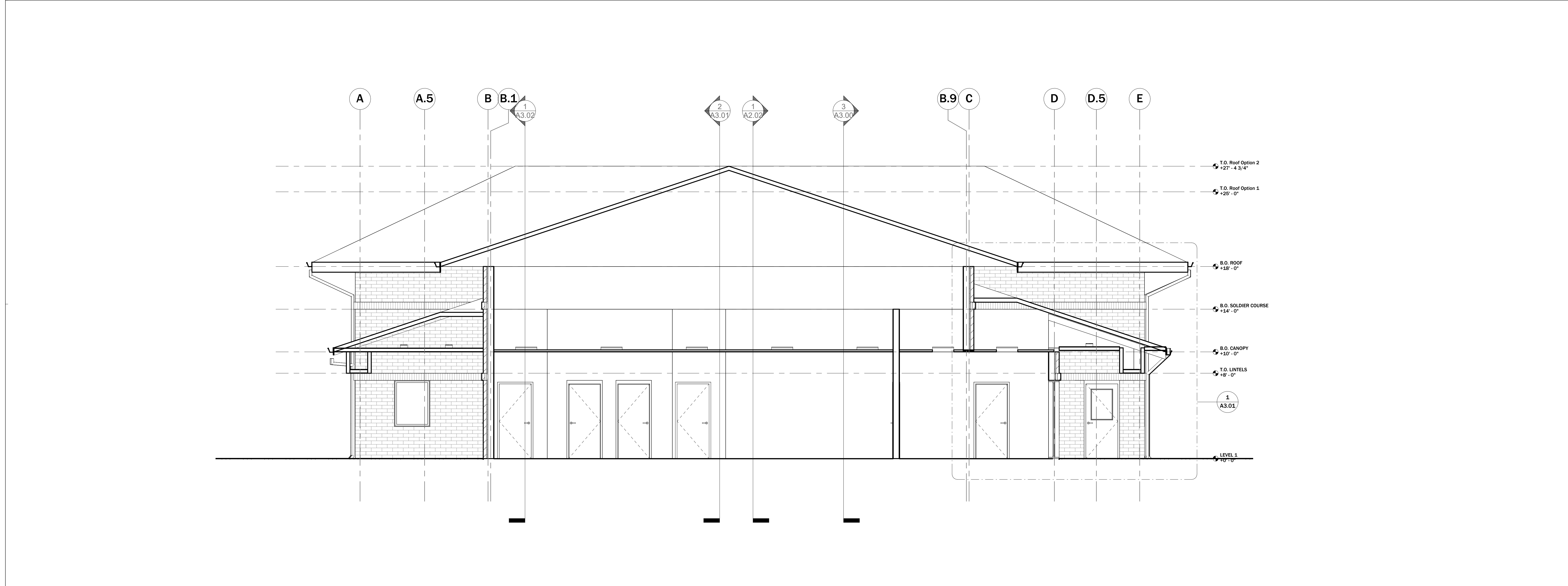
SHEET NO.

A2.02



1 SECTION 01

1/4" = 1'-0"



2 SECTION 02

1/4" = 1'-0"



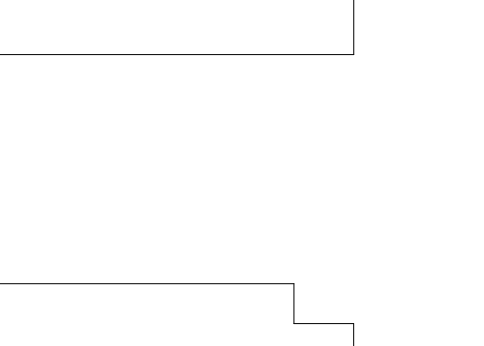
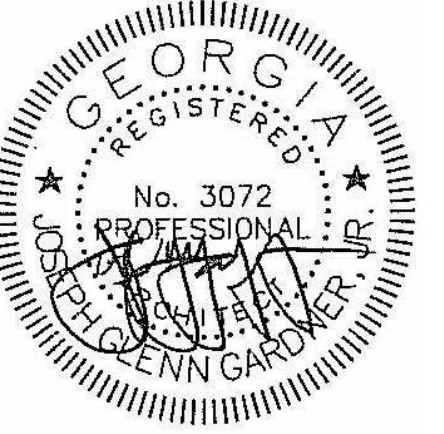
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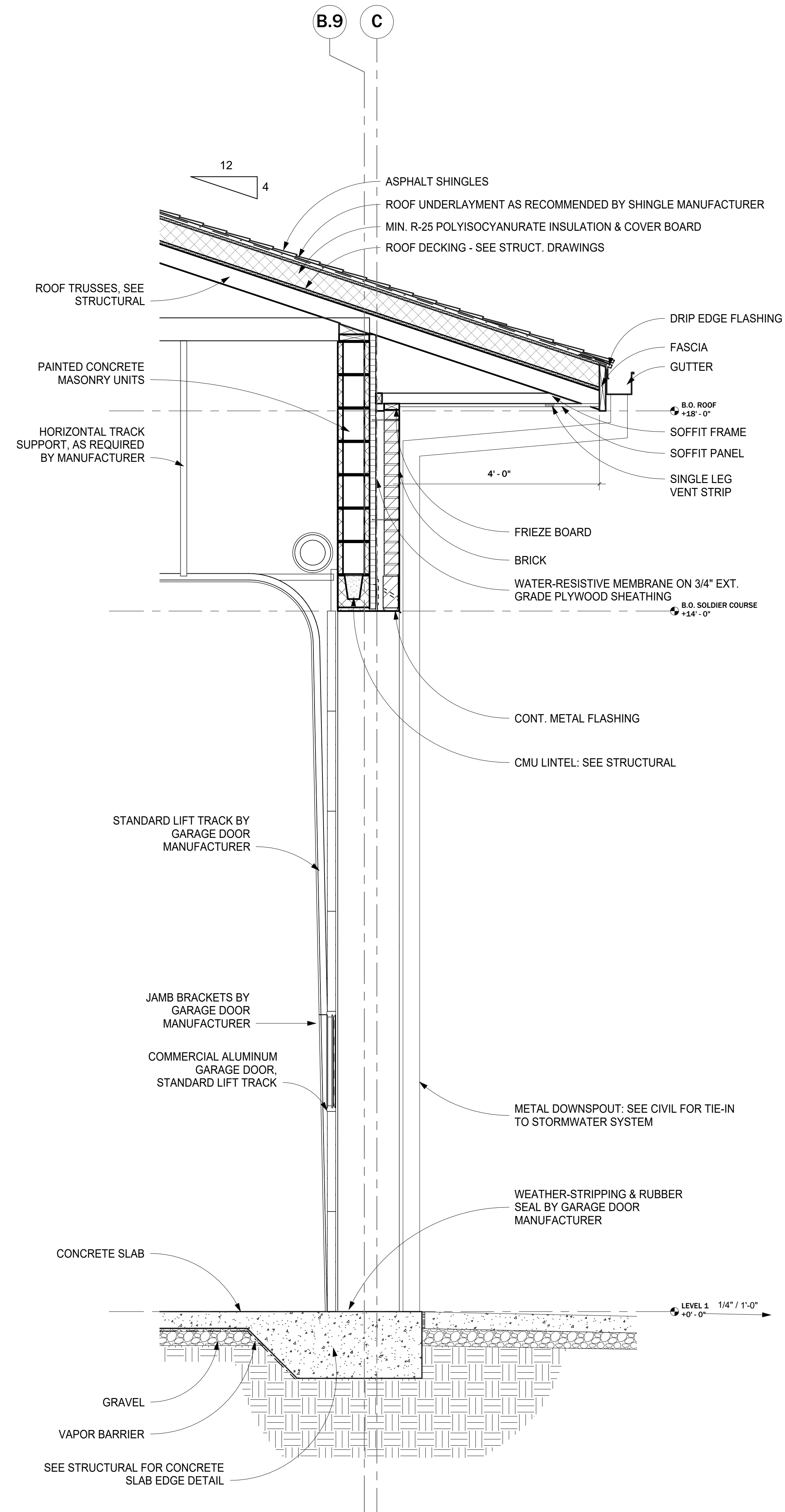
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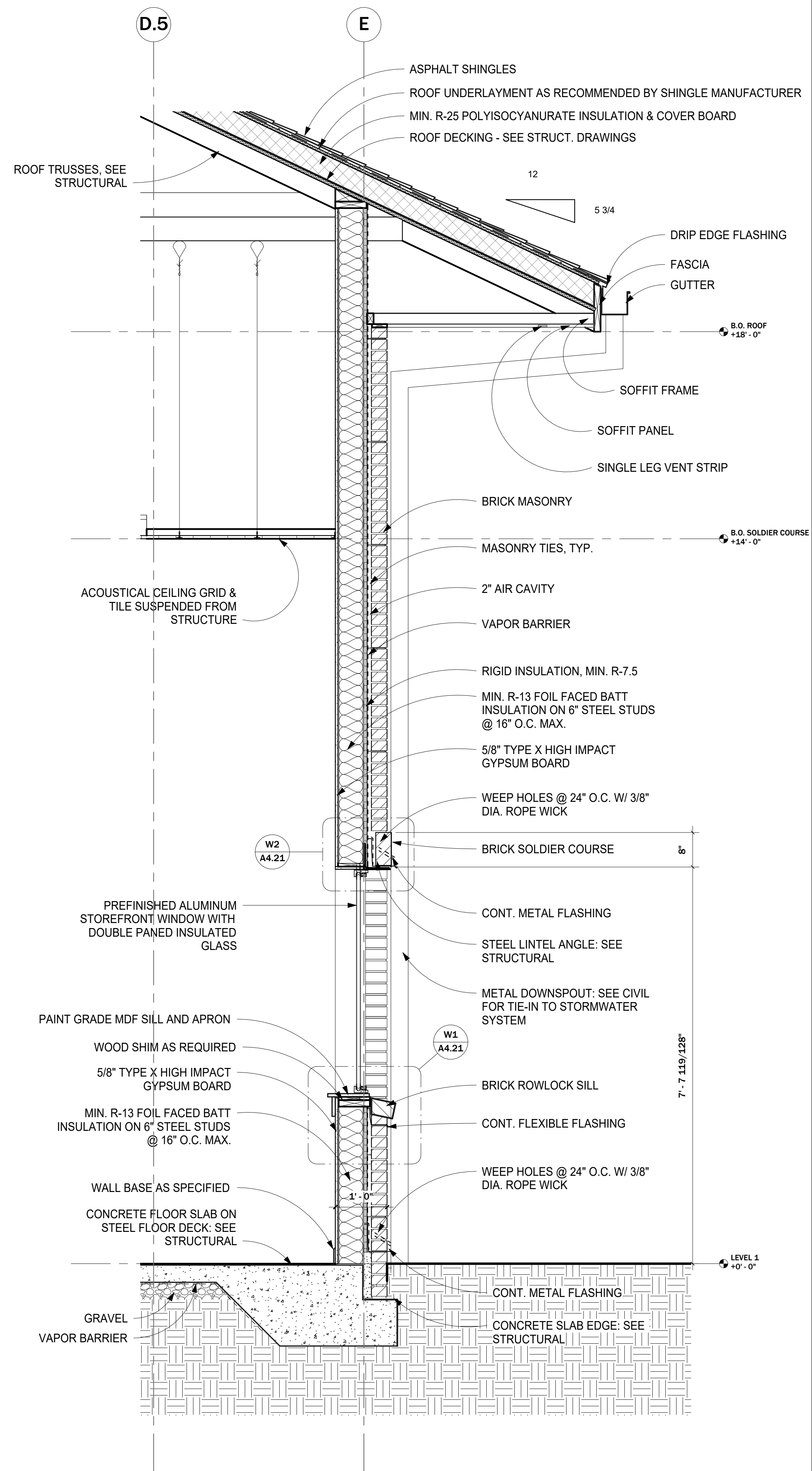
PROJECT NO. 22125

SHEET TITLE WALL SECTIONS

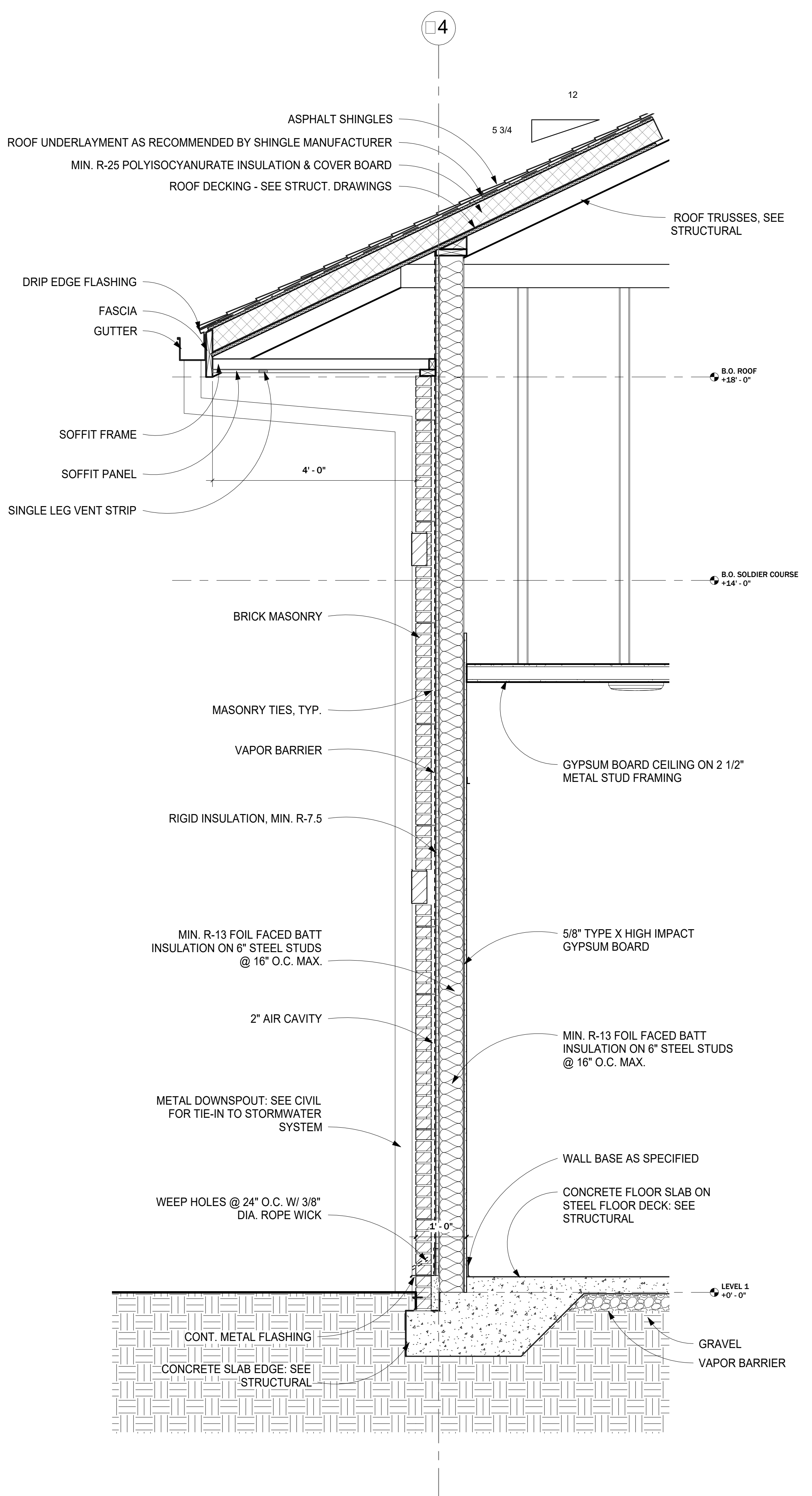
SHEET NO. A3.00



1 WALL SECTION @ OVERHEAD DOOR 3/4" = 1'-0"



2 WALL SECTION @ TYPICAL WINDOW 3/4" = 1'-0"



3 TYPICAL WALL SECTION 3/4" = 1'-0"



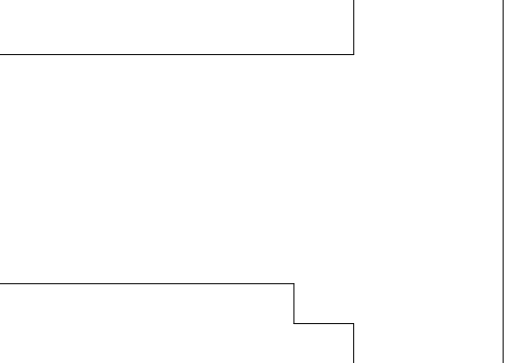
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PROJECT NO.

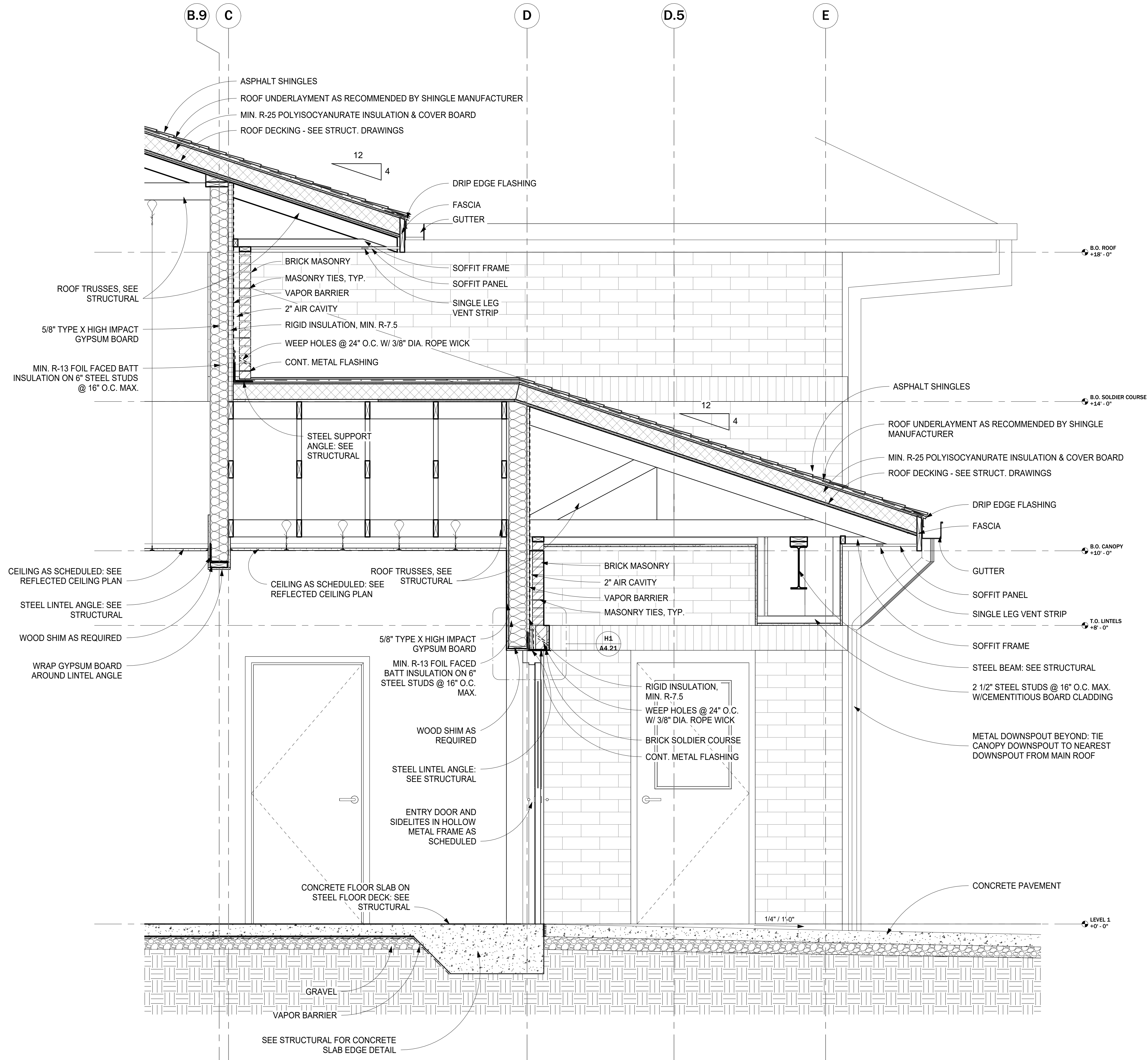
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SHEET TITLE

WALL SECTIONS

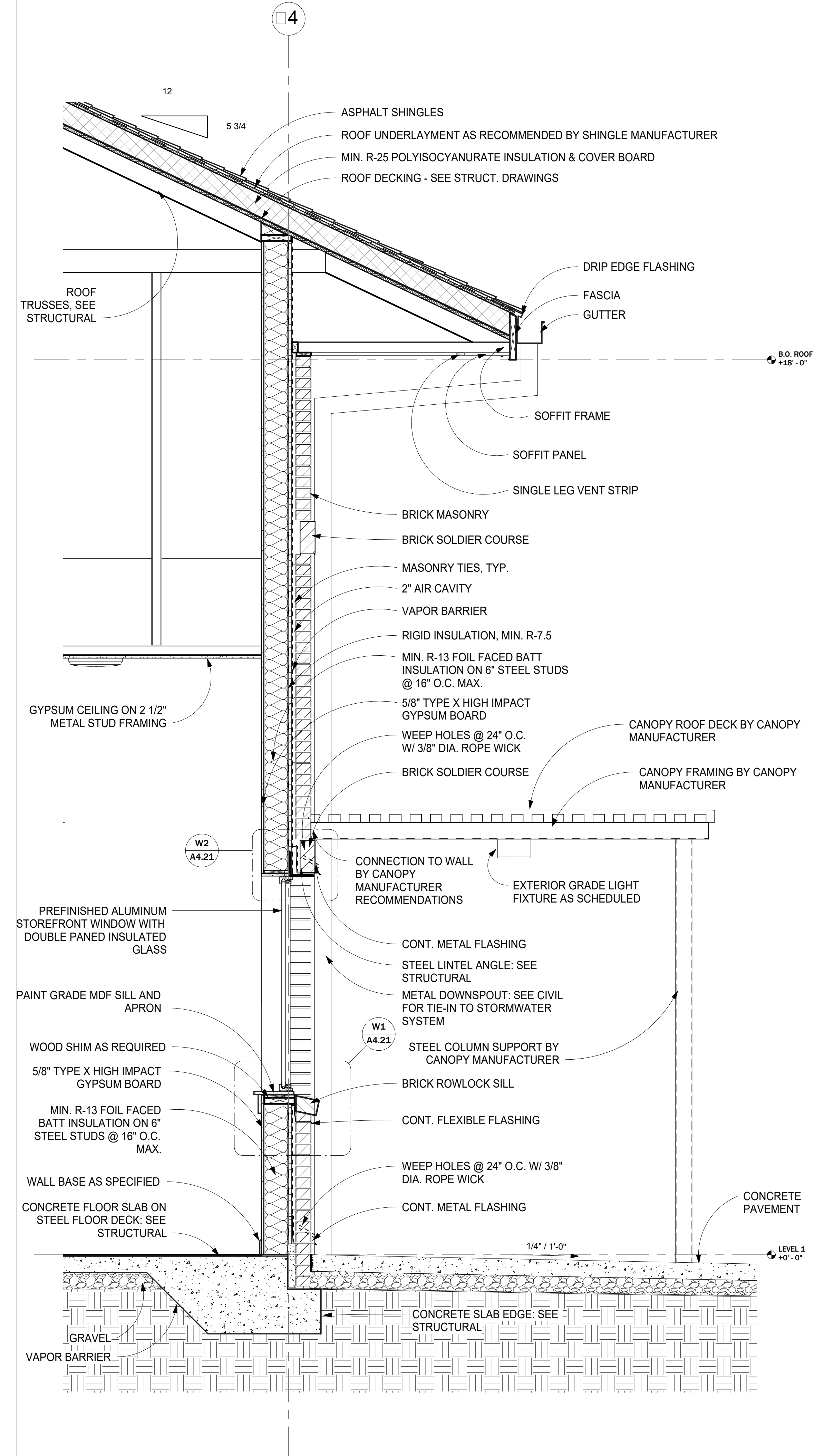
SHEET NO.

A3.01



1 WALL SECTION @ FRONT ENTRANCE CANOPY

3/4" = 1'-0"



2 SECTION @ DAYROOM ENTRANCE CANOPY

3/4" = 1'-0"



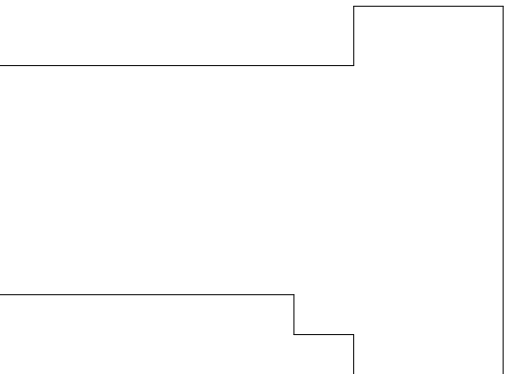
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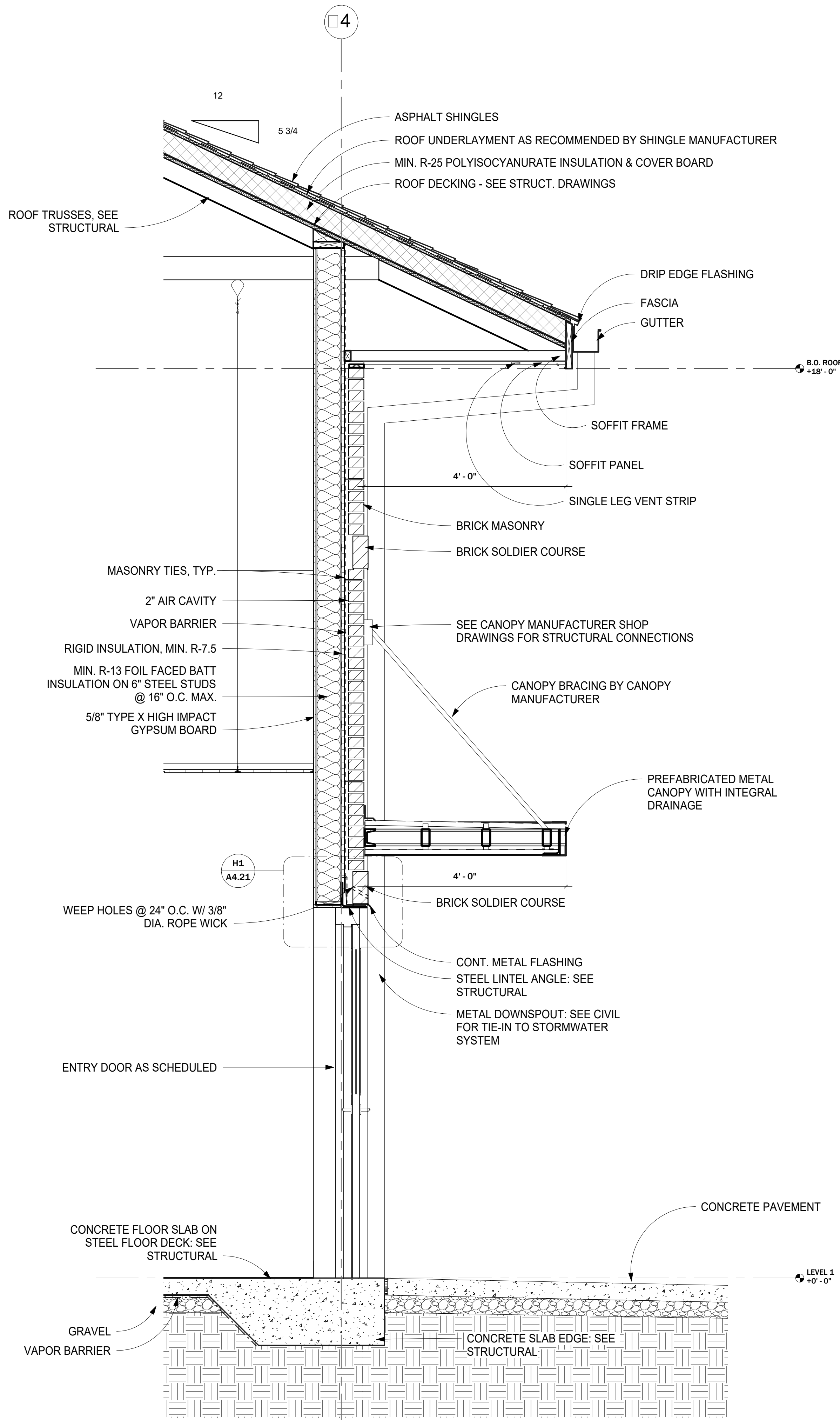
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SHEET TITLE

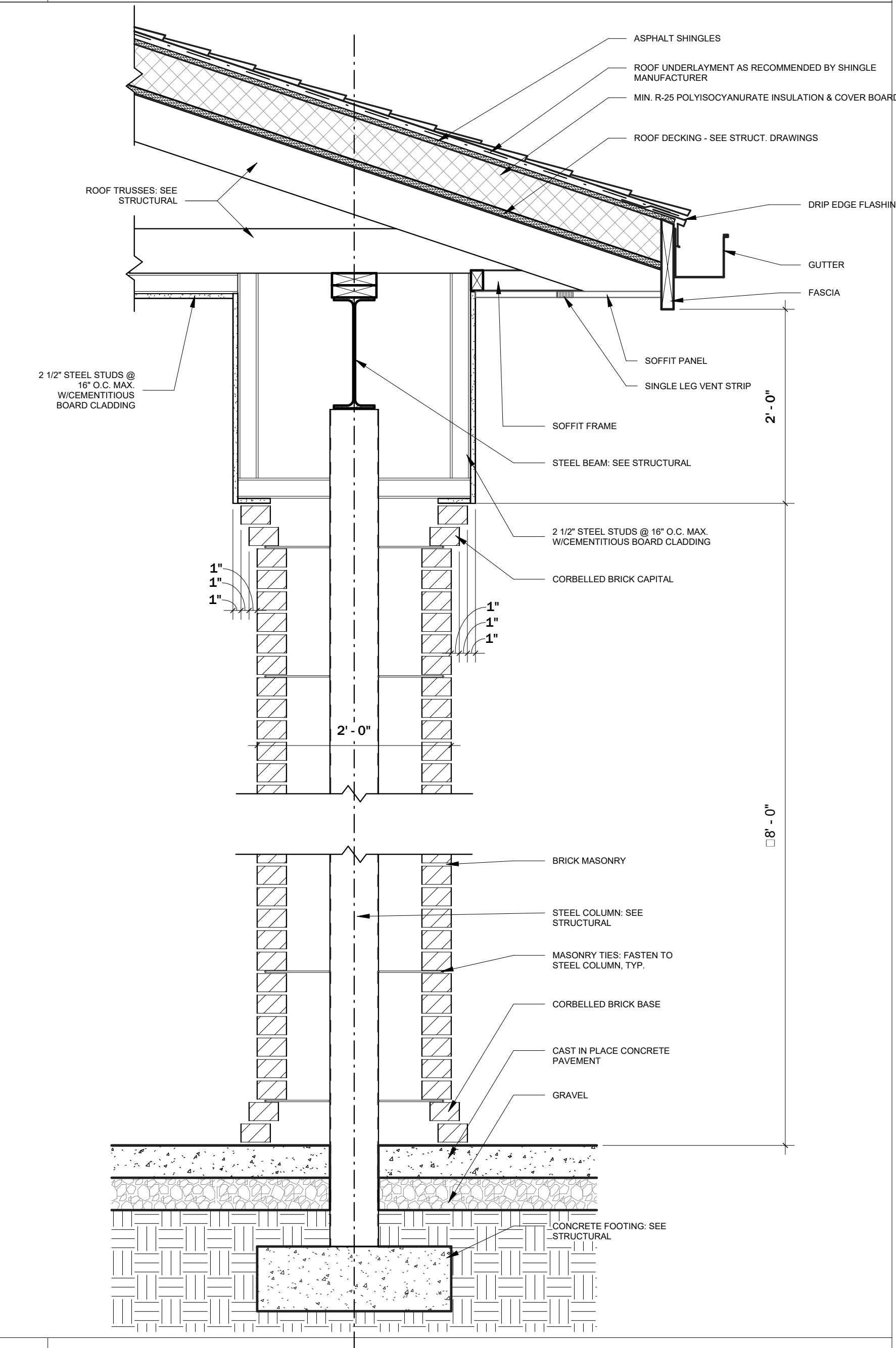
WALL SECTIONS

SHEET NO.

A3.02



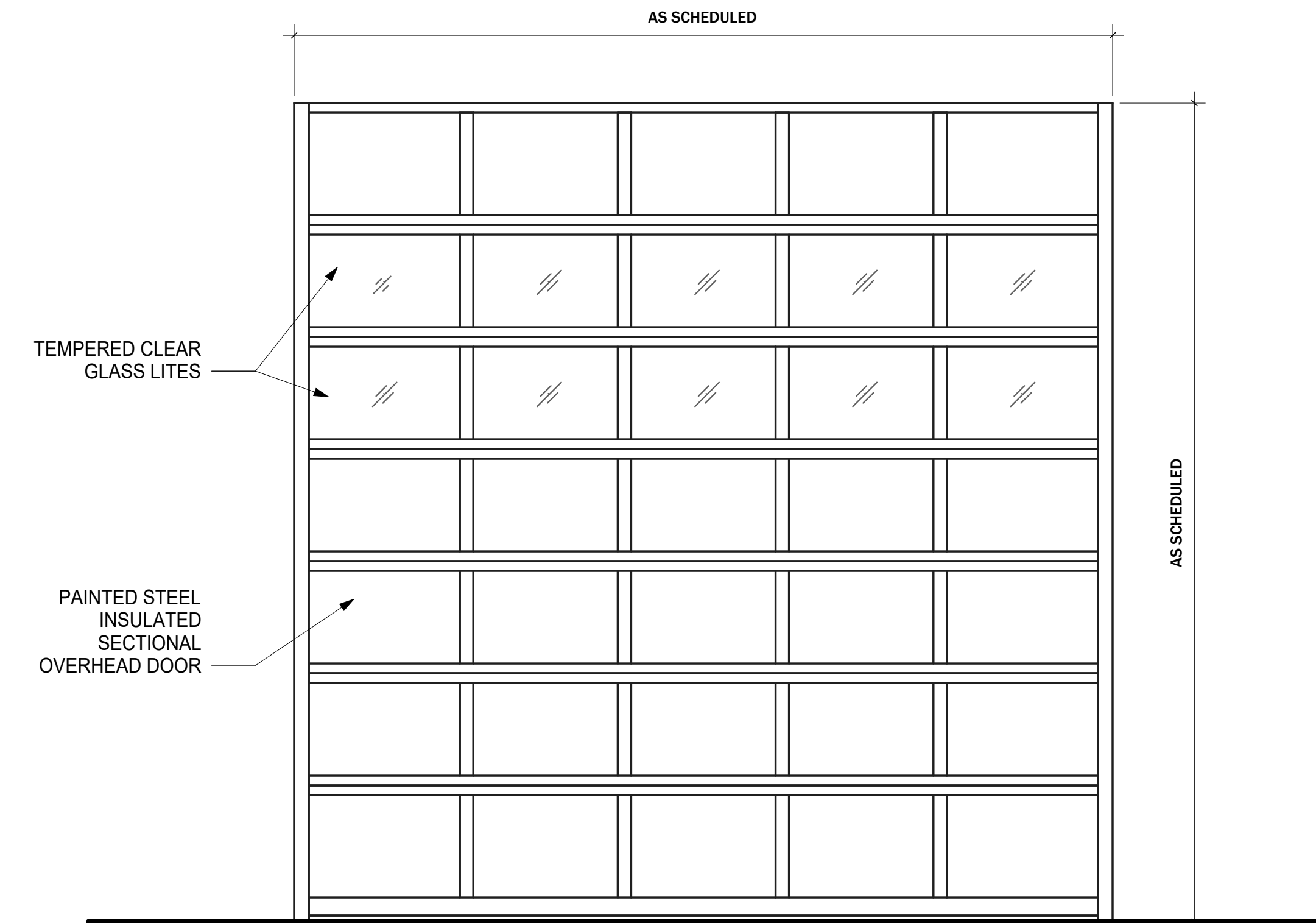
2 Canopy Column Plan Section 1" = 1'-0"



3 Canopy Column Section 1" = 1'-0"

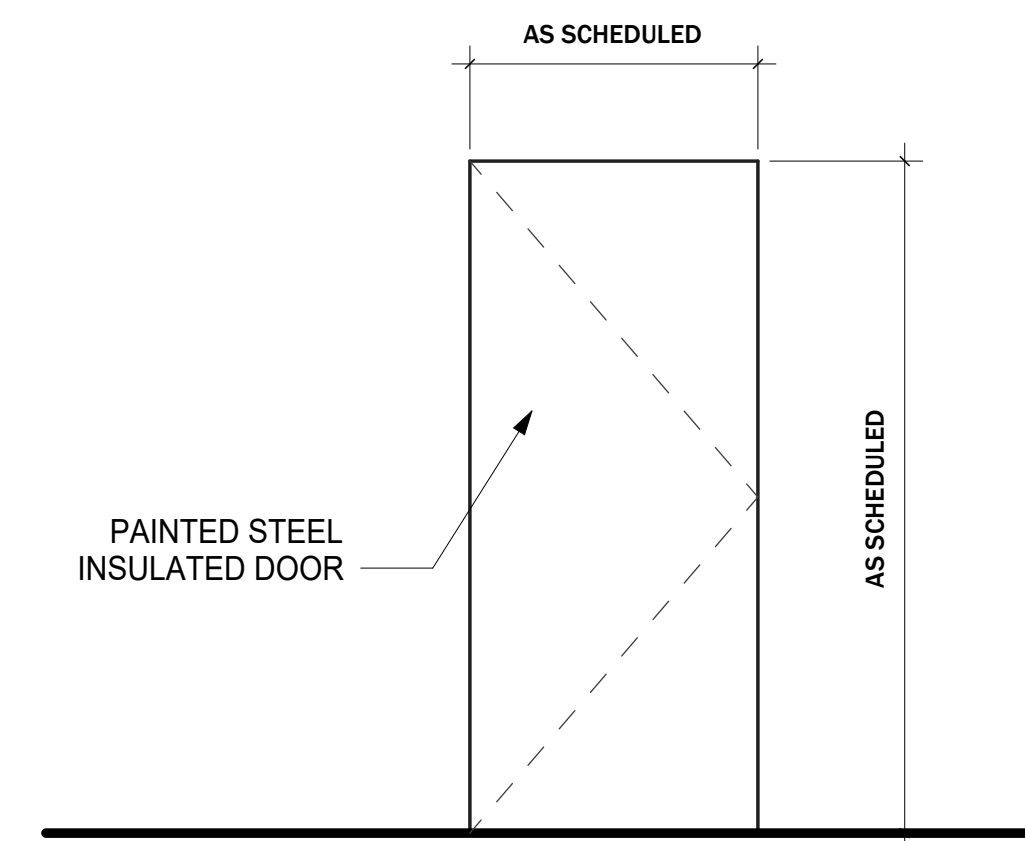
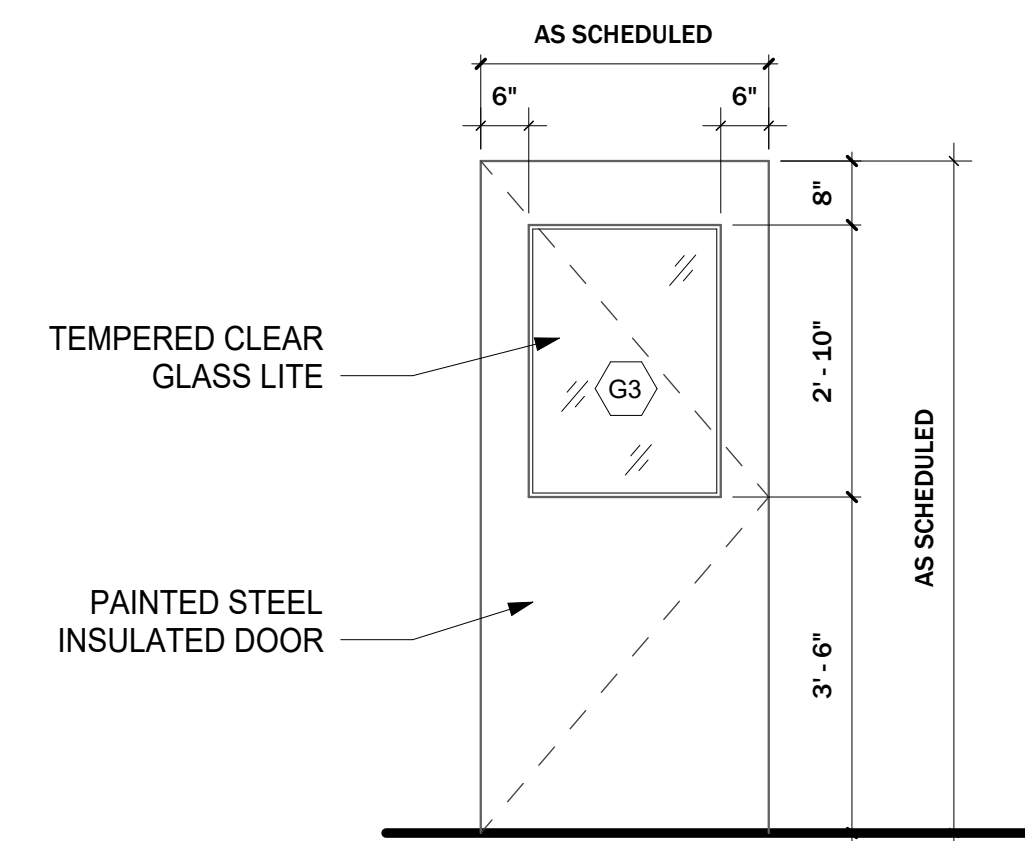
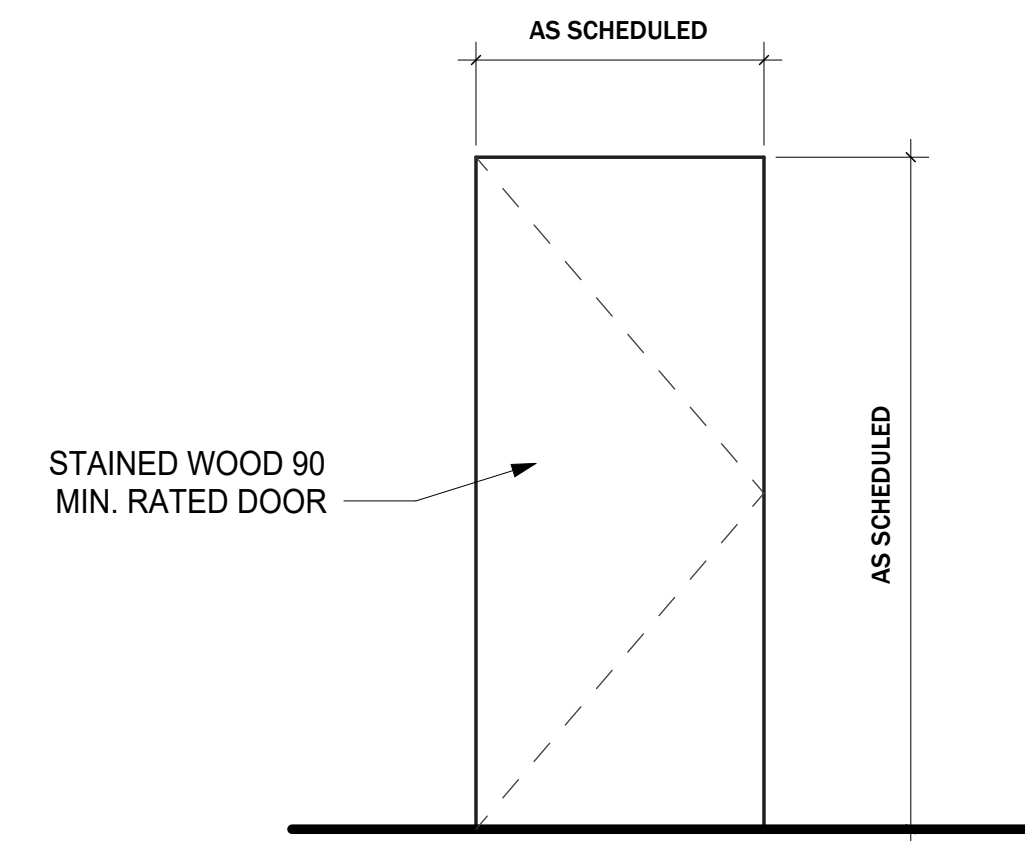
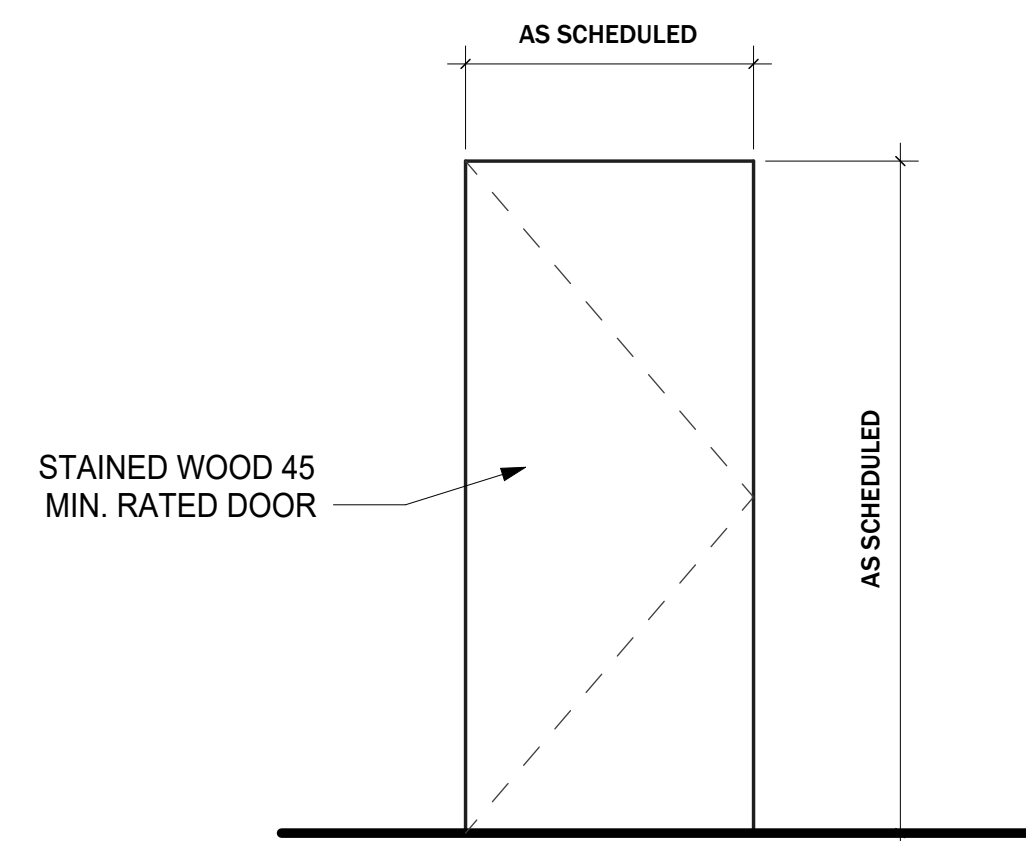
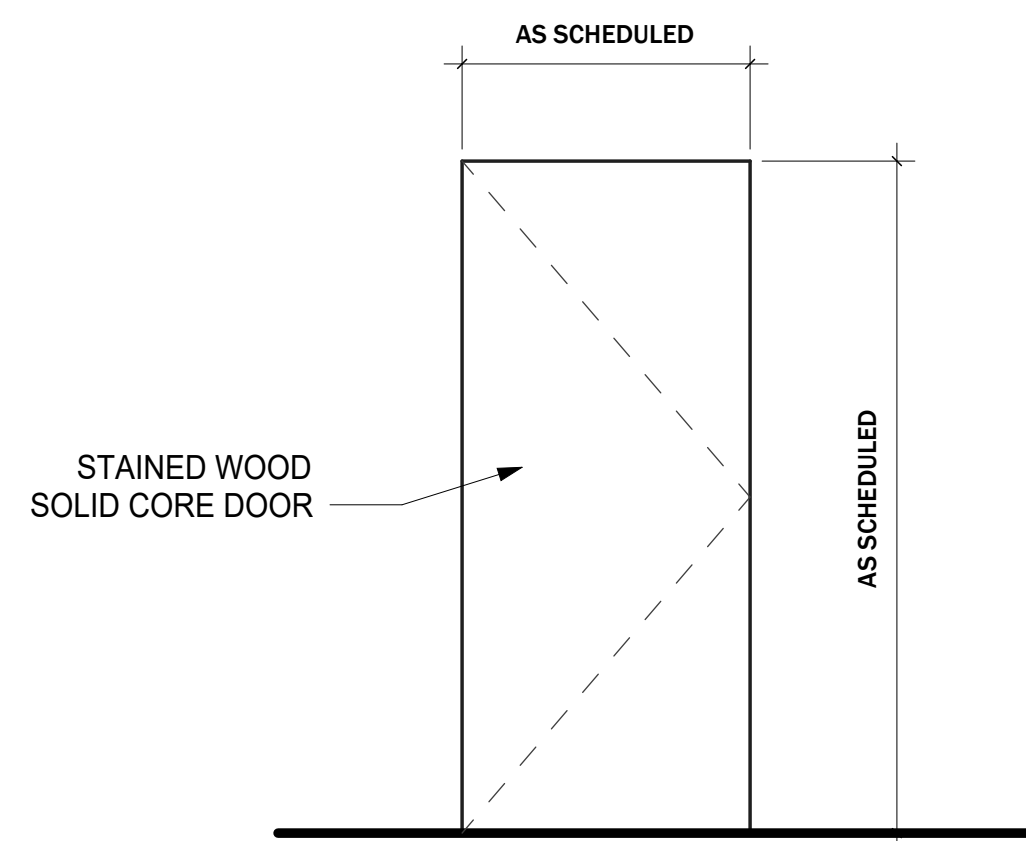


MARK	PR	Hand	DOOR										FRAME										DETAILS										Hard ware Set	NOTES
			SIZE			Material/Construction	Finish	Elevation/ Glazing	Material/Construction	Finish	Elevation	Fire Rating	HEAD	JAMB	SILL	Hardware Function	Lock	Closer	Hold Open	Exit Device	Hook	Card Reader	Signage											
			W	H	T																													
101A	No	RHR	3'-0"	7'-0"	0'-1 3/4"	STL/INSUL	PT	E	HM	PT	4	--	H1	J1A	S1	ENTRY	Yes	Yes	No	Yes	No	NO	NO											
101B	No	LH	3'-0"	7'-0"	0'-1 3/4"	SCWD	STAIN	D	HM	PT	1	90 MIN.	H2	J2		PASSAGE	No	No	No	No	No	NO	NO											
102	No	LH	3'-0"	7'-0"	0'-1 3/4"	SCWD	STAIN	B	HM	PT	1	--	H2	J2	S3	PRIVACY	Yes	No	No	No	Yes	YES	NO											
103	No	RHR	3'-0"	7'-0"	0'-1 3/4"	SCWD	STAIN	B	HM	PT	1	--	H2	J2	S4	STORAGE	Yes	No	No	No	No	NO	NO											
104A	No	RH	3'-0"	7'-0"	0'-1 3/4"	SCWD	STAIN	D	HM	PT	1	90 MIN.	H2	J2		PASSAGE	No	No	No	No	No	NO	NO											
104B	No	LHR	3'-0"	7'-0"	0'-1 3/4"	STL/INSUL	PT	E	HM	PT	4	--	H1	J1	S1	ENTRY	Yes	Yes	No	No	No	NO	NO											
105A	No	LHR	3'-0"	7'-0"	0'-1 3/4"	SCWD	STAIN	B	HM	PT	3	--	H4	J4		PASSAGE	No	Yes	No	No	No	NO	NO											
105B	No	RHR	3'-0"	7'-0"	0'-1 3/4"	STL/INSUL	PT	E	HM	PT	4	--	H1	J1	S1	ENTRY	Yes	Yes	No	No	No	NO	NO											
106	No	RH	3'-0"	7'-0"	0'-1 3/4"	SCWD	STAIN	B	HM	PT	1	--	H2	J2		PRIVACY	Yes	No	No	No	Yes	NO	NO											
107	No	RH	3'-0"	7'-0"	0'-1 3/4"	SCWD	STAIN	B	HM	PT	1	--	H2	J2		PRIVACY	Yes	No	No	No	Yes	NO	NO											
108	No	LH	3'-0"	7'-0"	0'-1 3/4"	SCWD	STAIN	B	HM	PT	1	--	H2	J2		PRIVACY	Yes	No	No	No	Yes	NO	NO											
109	No	LH	3'-0"	7'-0"	0'-1 3/4"	SCWD	STAIN	B	HM	PT	1	--	H2	J2		PASSAGE	No	No	No	No	No	NO	NO											
110	No	RH	3'-0"	7'-0"	0'-1 3/4"	SCWD	STAIN	B	HM	PT	1	--	H2	J2	S3	PRIVACY	Yes	No	No	No	Yes	YES	NO											
111	No	LH	3'-0"	7'-0"	0'-1 3/4"	SCWD	STAIN	B	HM	PT	1	--	H2	J2		STORAGE	Yes	No	No	No	Yes	NO	NO											
112	No	LH	3'-0"	7'-0"	0'-1 3/4"	SCWD	STAIN	B	HM	PT	2	--	H2	J2	S4	STORAGE	Yes	No	No	No	No	NO	NO											
113	No	LHR	3'-0"	7'-0"	0'-1 3/4"	SCWD	STAIN	D	HM	PT	1	90 MIN.	H2	J2		PASSAGE	No	No	No	Yes	No	NO	NO											
114	No	RHR	3'-0"	7'-0"	0'-1 3/4"	STL/INSUL	PT	E	HM	PT	4	--	H1	J1	S1	ENTRY	Yes	Yes	No	No	No	NO	NO											
116	No	LHR	3'-0"	7'-0"	0'-1 3/4"	SCWD	STAIN	B	HM	PT	1	--	H2	J2		STORAGE	Yes	No	No	No	Yes	NO	NO											
117	No	RHR	3'-0"	7'-0"	0'-1 3/4"	SCWD	STAIN	B	HM	PT	1	--	H2	J2		STORAGE	Yes	No	No	No	Yes	NO	NO											
118	No	RHR	3'-0"	7'-0"	0'-1 3/4"	STL/INSUL	PT	E	HM	PT	4	--	H1	J1	S1	ENTRY	Yes	Yes	No	Yes	No	NO	NO											
119	No	LH	3'-0"	7'-0"	0'-1 3/4"	SCWD	STAIN	C	HM	PT	2	45 MIN.	H3	J3		STORAGE	Yes	Yes	No	No	No	NO	NO											
120A	No	RH	3'-0"	7'-0"	0'-1 3/4"	SCWD	STAIN	D	HM	PT	1	90 MIN.	H2	J2		PASSAGE	No	No	No	Yes	No	NO	NO											
120B	No	RH	3'-0"	7'-0"	0'-1 3/4"	SCWD	STAIN	C	HM	PT	2	45 MIN.	H3	J3	S4	PASSAGE	No	Yes	No	Yes	No	NO	NO											
121	No	LH	3'-0"	7'-0"	0'-1 3/4"	SCWD	STAIN	C	HM	PT	2	45 MIN.	H3	J3		PASSAGE	No	Yes	No	No	No	NO	NO											
122	No	LHR	3'-0"	7'-0"	0'-1 3/4"	STL/INSUL	PT	F	HM	PT	4	--	H1	J1	S2	STORAGE	Yes	Yes	No	No	No	NO	NO											
123A	No	OVHD	14'-0"	14'-0"	0'-2"						5	--				GARAGE	Yes	No	No	No	No													
123B	No	OVHD	14'-0"	14'-0"	0'-2"						5	--				GARAGE	Yes	No	No	No	No													
123C	No	OVHD	14'-0"	14'-0"	0'-2"						5	--				GARAGE	Yes	No	No	No	No													
123D	No	OVHD	14'-0"	14'-0"	0'-2"						5	--				GARAGE	Yes	No	No	No	No													
123E	No	OVHD	14'-0"	14'-0"	0'-2"						5	--				GARAGE	Yes	No	No	No	No													
123F	No	OVHD	14'-0"	14'-0"	0'-2"						5	--				GARAGE	Yes	No	No	No	No													
123G	No	RHR	3'-0"	7'-0"	0'-1 3/4"	STL/INSUL	PT	E	HM	PT	4	--	H1	J1	S2	ENTRY	Yes	Yes	No	No	No	NO	NO											
123H	No	LHR	3'-0"	7'-0"	0'-1 3/4"	STL/INSUL	PT	E	HM	PT	4	--	H1	J1	S2	ENTRY	Yes	Yes	No	No	No	NO	NO											
124	No	RH	3'-0"	7'-0"	0'-1 3/4"	SCWD	STAIN	B	HM	PT	2	--	H2	J2	S4	STORAGE	Yes	No	No	No	No	NO	NO											



A Overhead Door Elev

1/2" = 1'-0"



B Interior Wood Door Elev

1/2" = 1'-0"

C 45 Min. Wood Door Elev

1/2" = 1'-0"

D 90 Min. Wood Door Elev

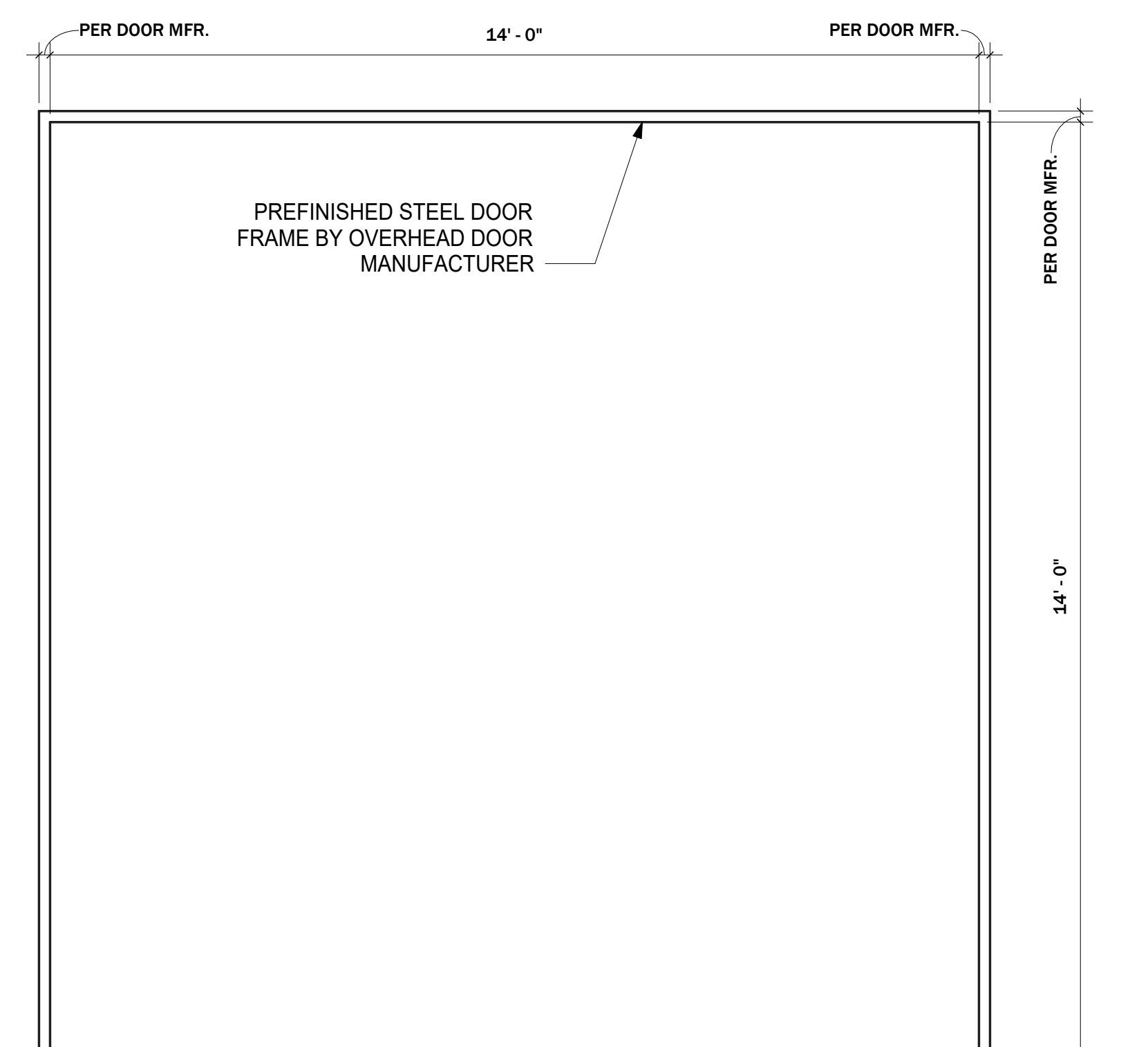
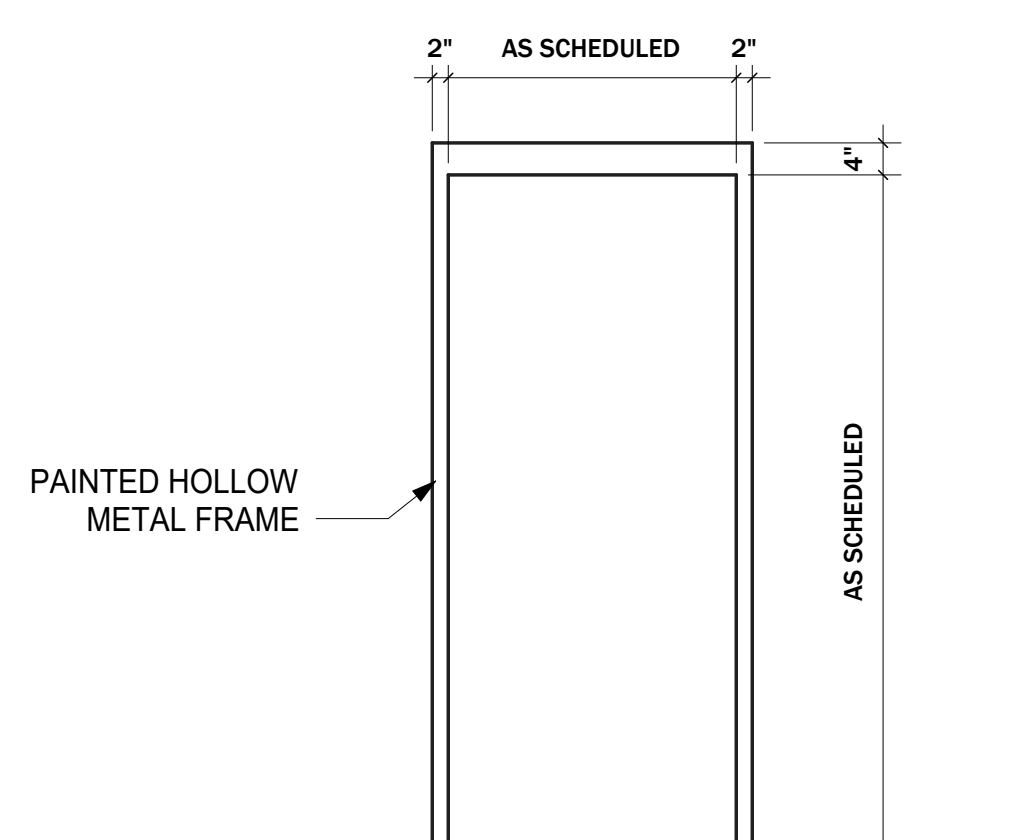
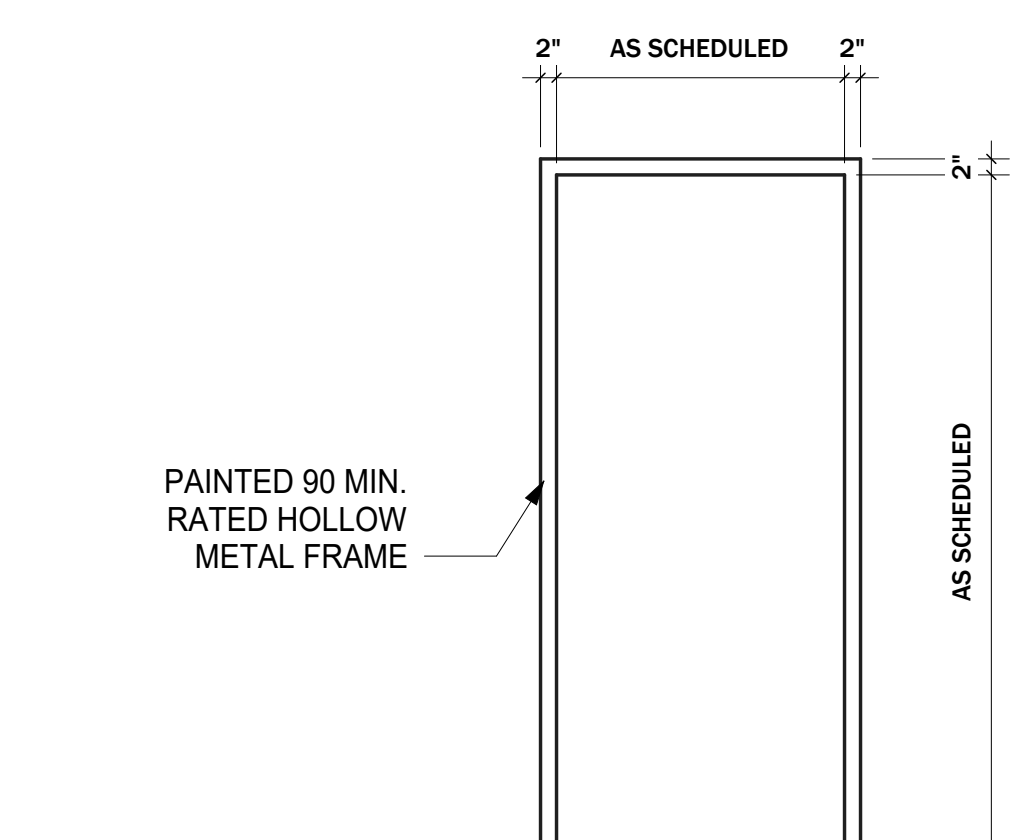
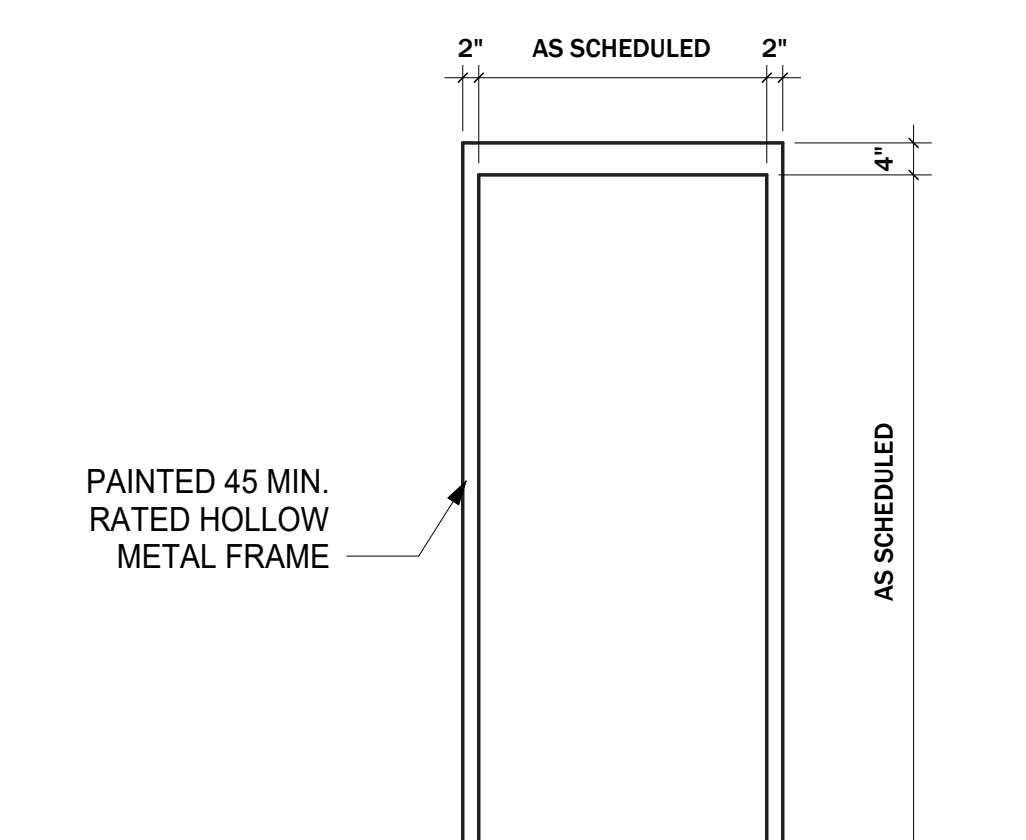
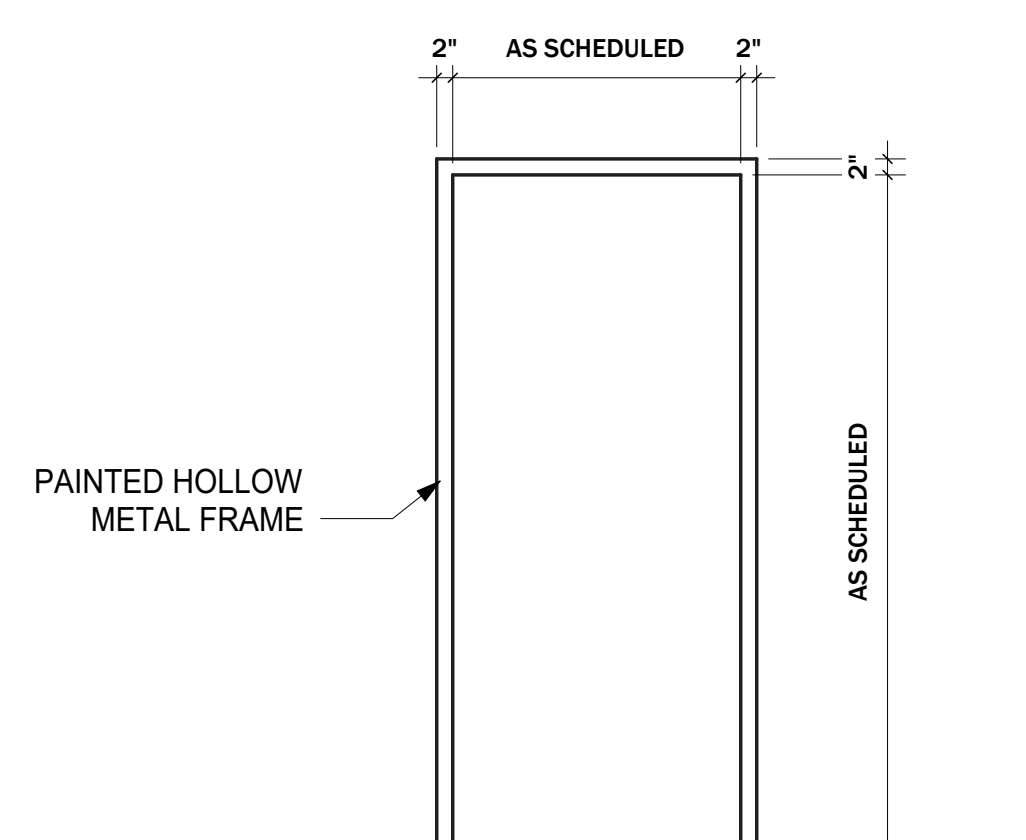
1/2" = 1'-0"

E Half Lite Door Elev

1/2" = 1'-0"

F Steel Insulated Door Elev

1/2" = 1'-0"



1 Typ. Hollow Metal Frame

1/2" = 1'-0"

2 45 Min. Hollow Metal Frame

1/2" = 1'-0"

3 90 Min. Hollow Metal Frame

1/2" = 1'-0"

4 Exterior Hollow Metal Frame

1/2" = 1'-0"

5 Overhead Door Frame

1/2" = 1'-0"



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22125

SHEET TITLE
DOOR SCHEDULE & ELEVATIONS

SHEET NO.
A4.20



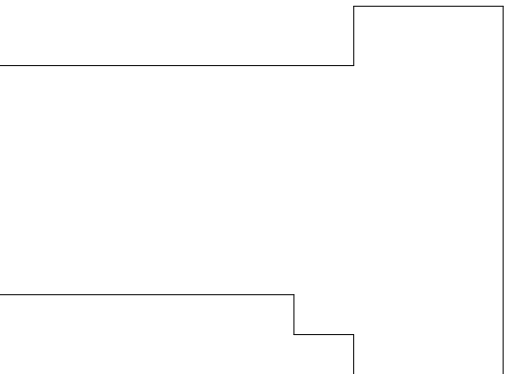
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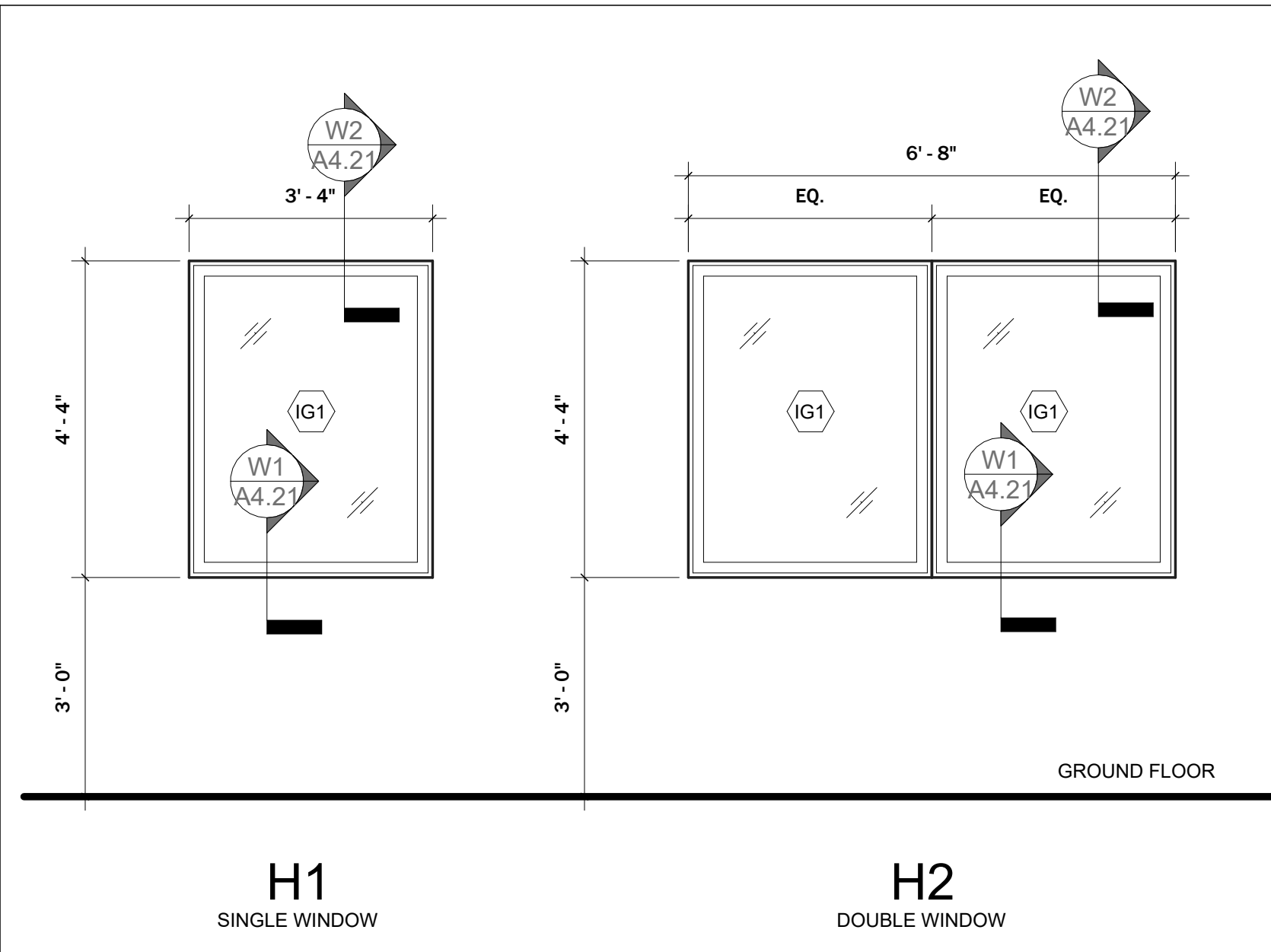
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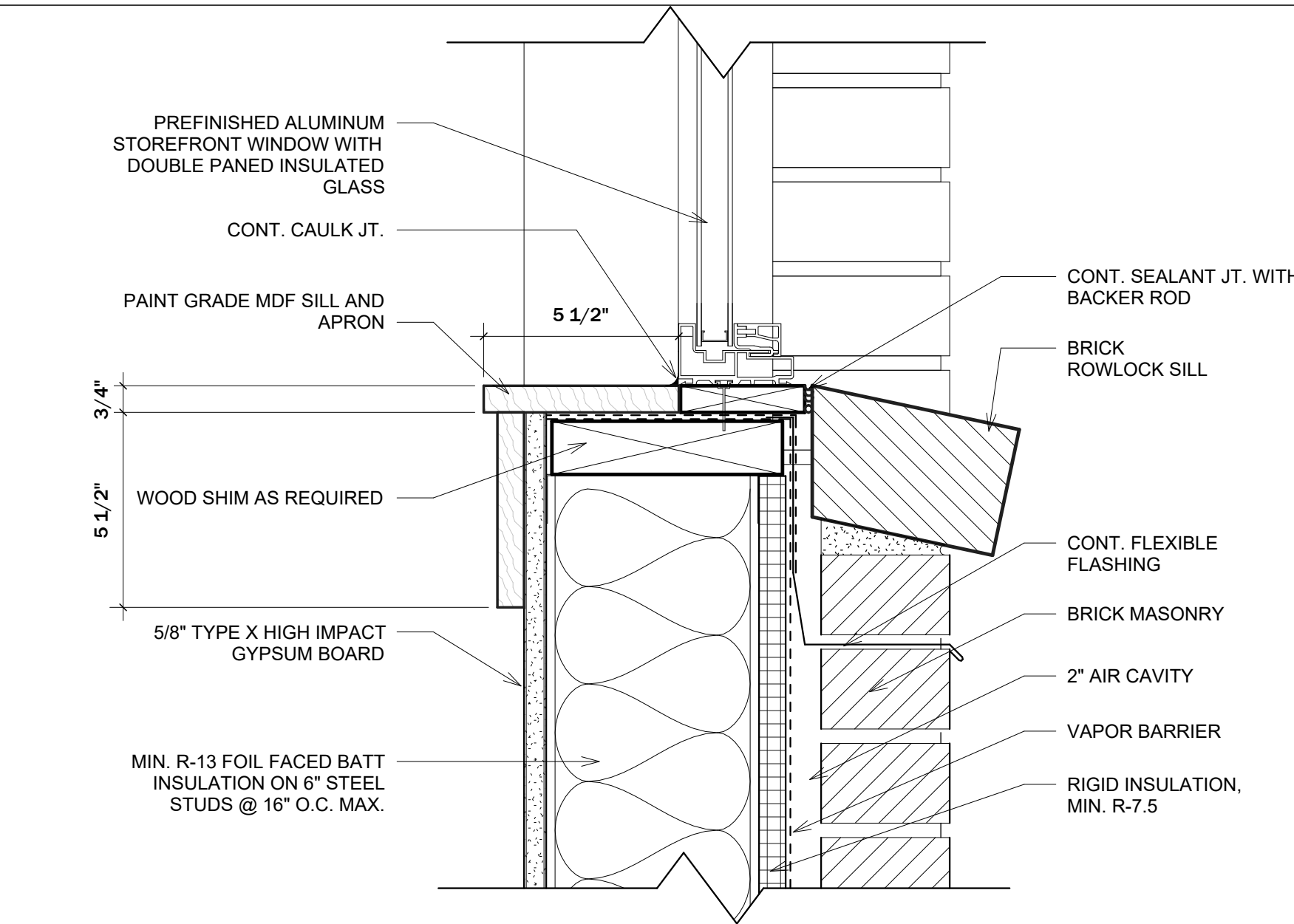
PROJECT NO.
22125

SHEET TITLE
WINDOW ELEVATIONS & DOOR DETAILS

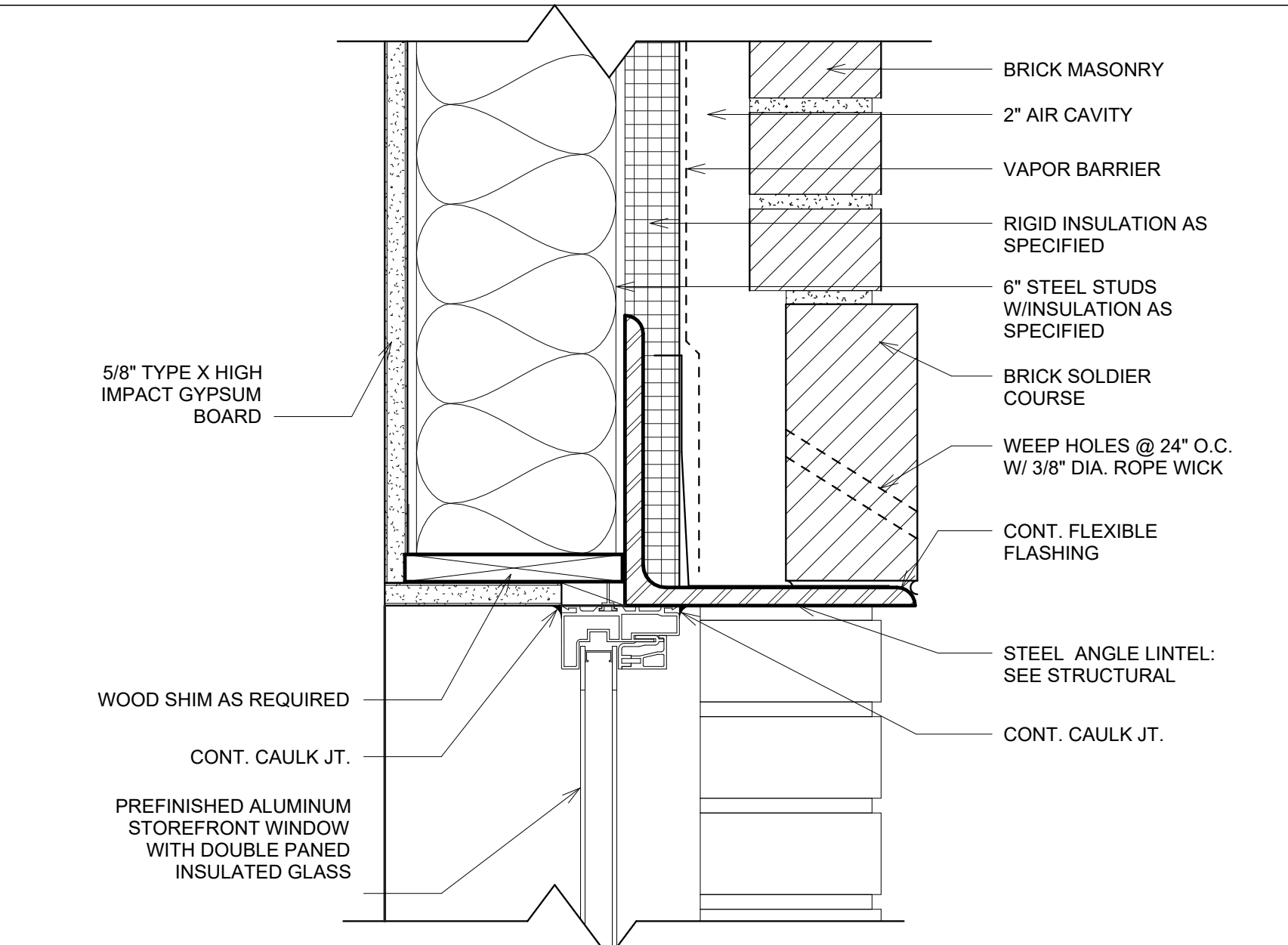
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A4.21



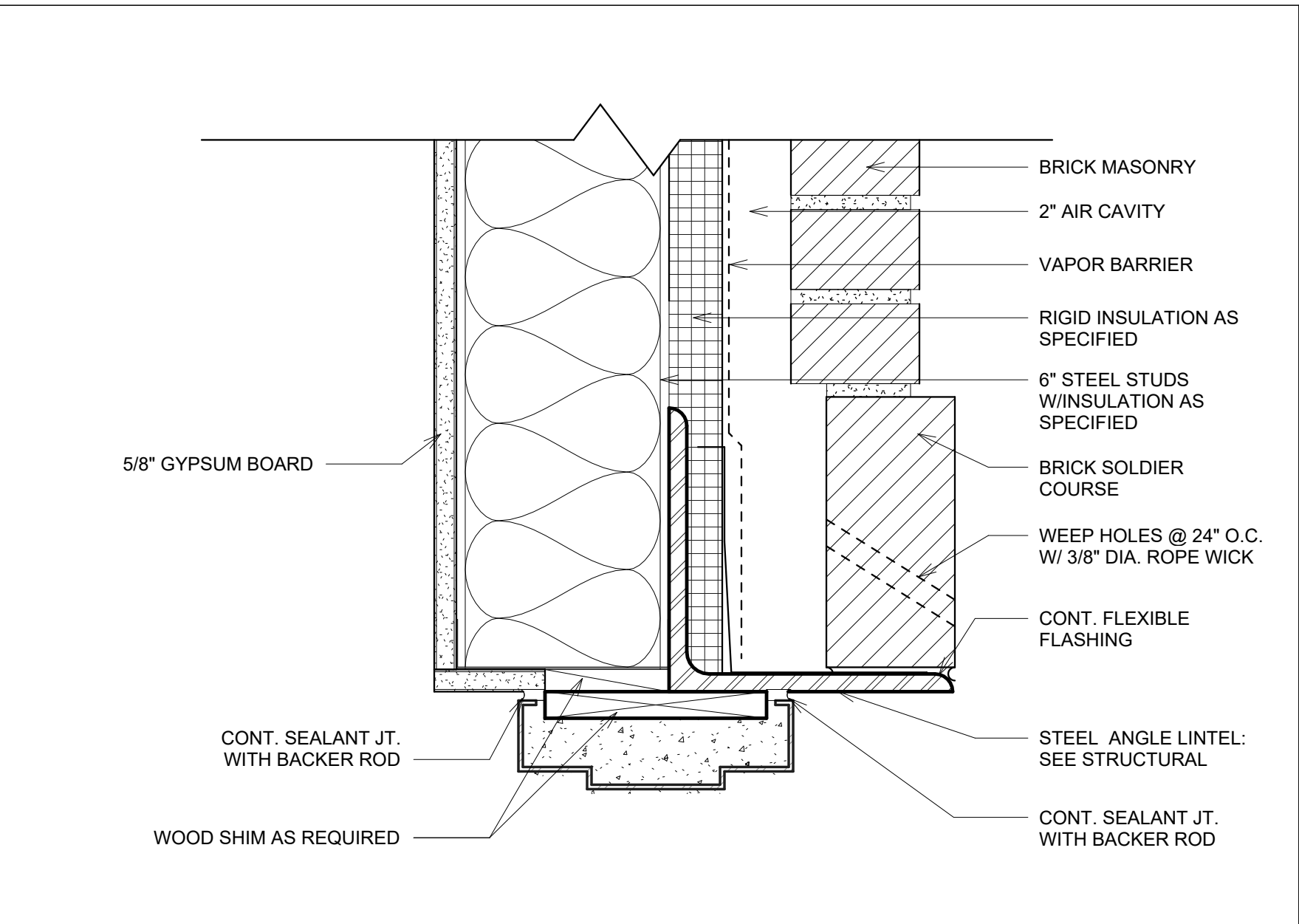
1 Window Elevations 1/2" = 1'-0"



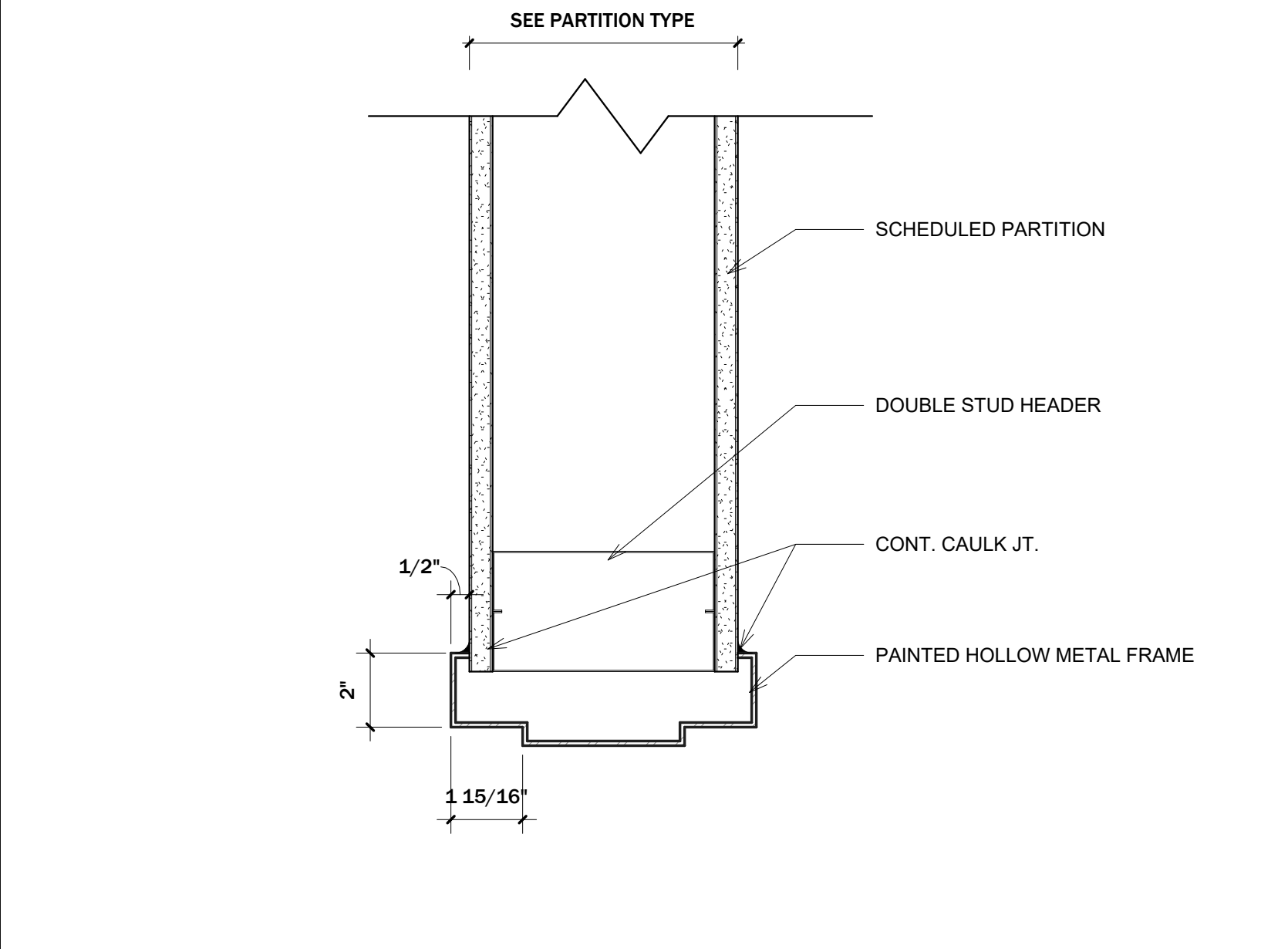
W1 Window Sill Detail 3" = 1'-0"



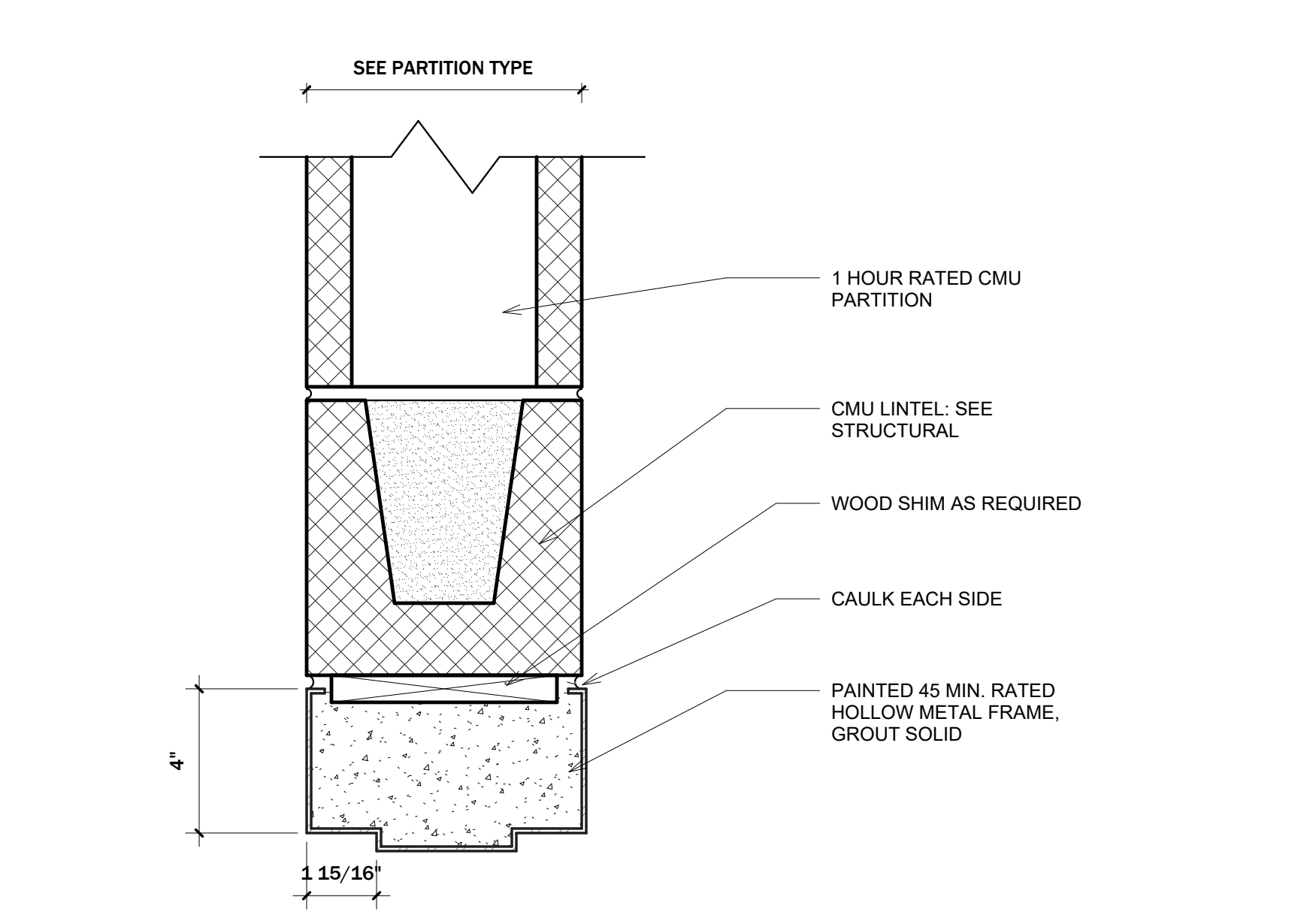
W2 Window Head Detail 3" = 1'-0"



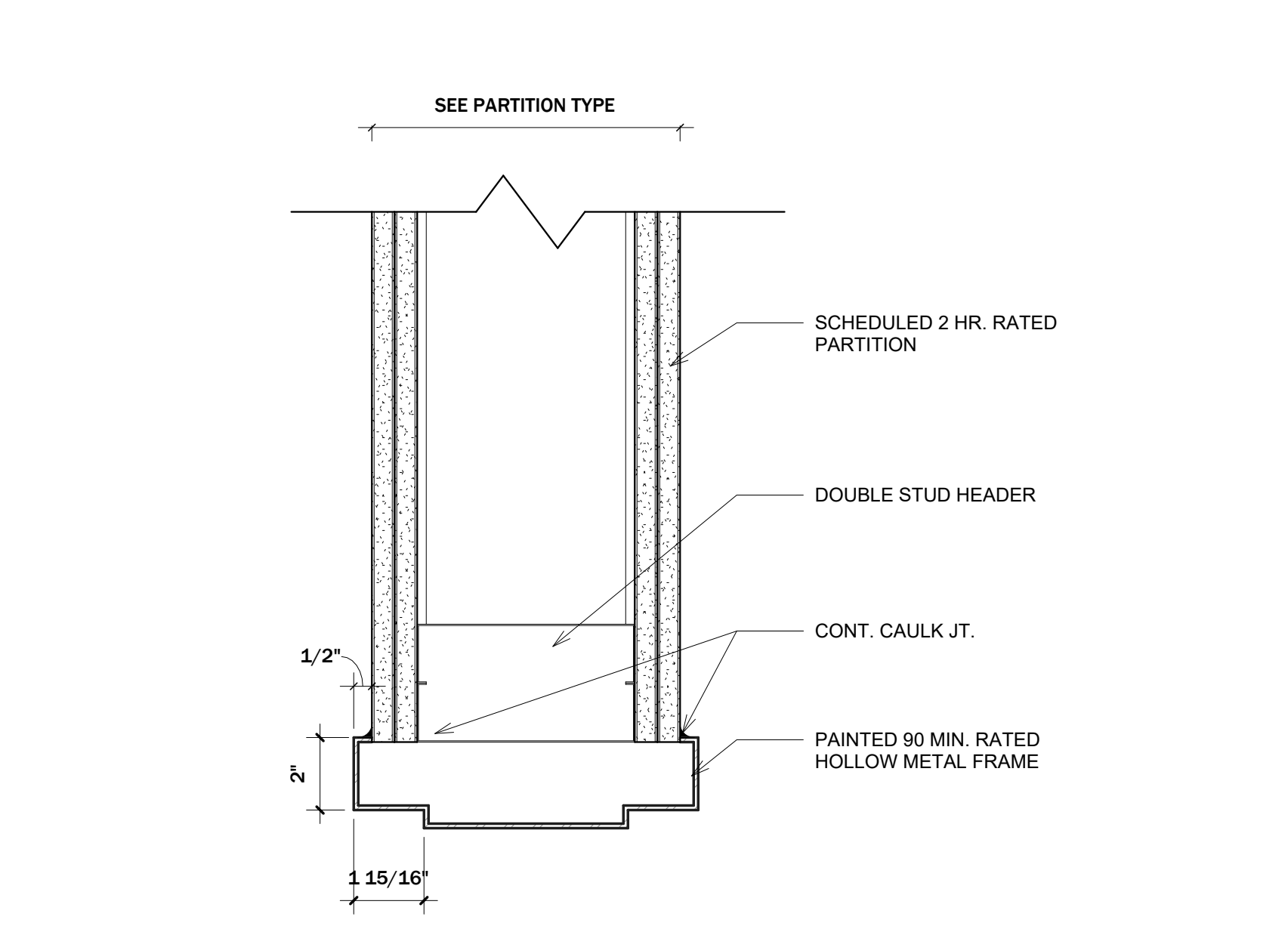
H1 Exterior Door Head Detail 3" = 1'-0"



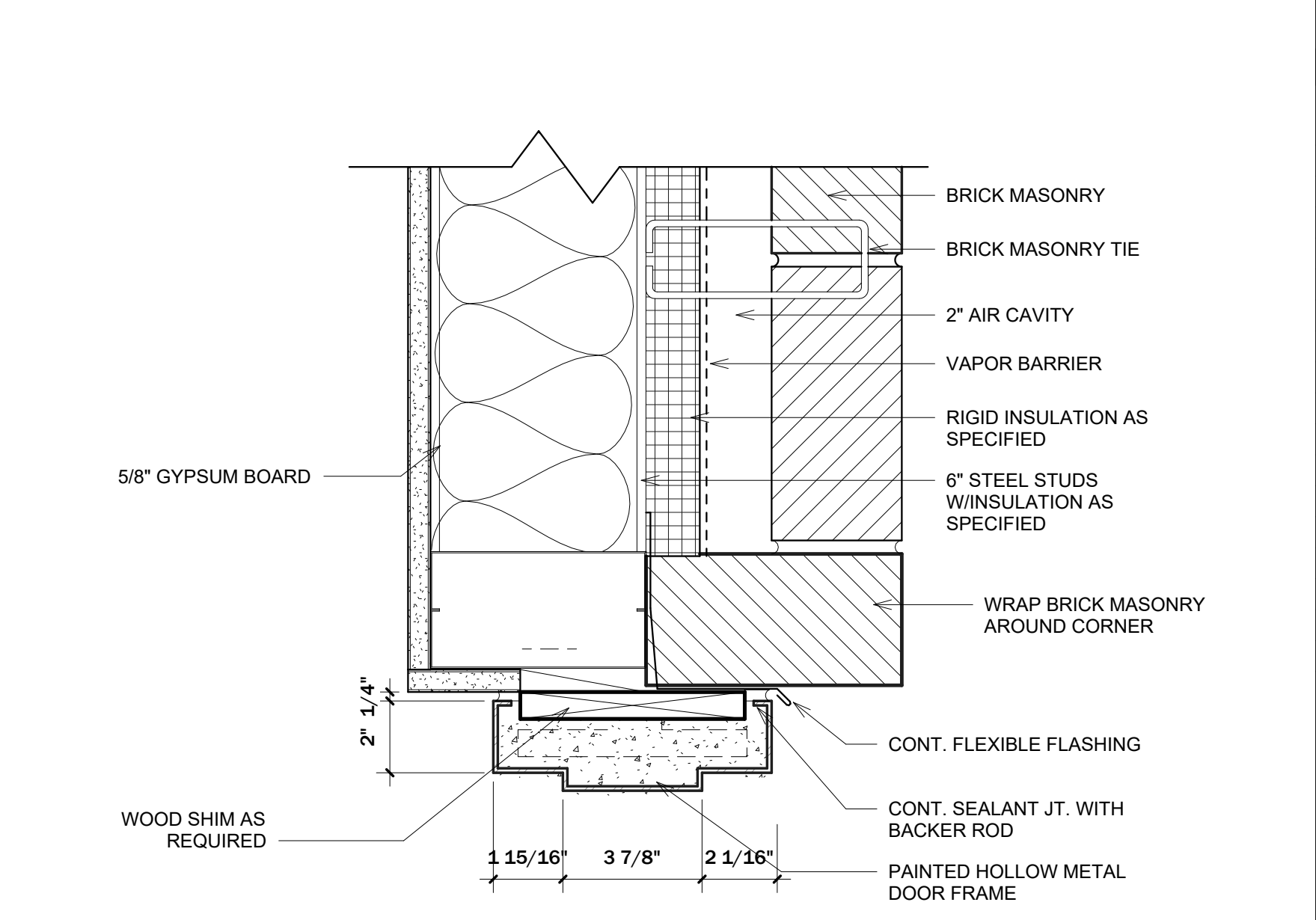
H2 Interior Door Head Detail 3" = 1'-0"



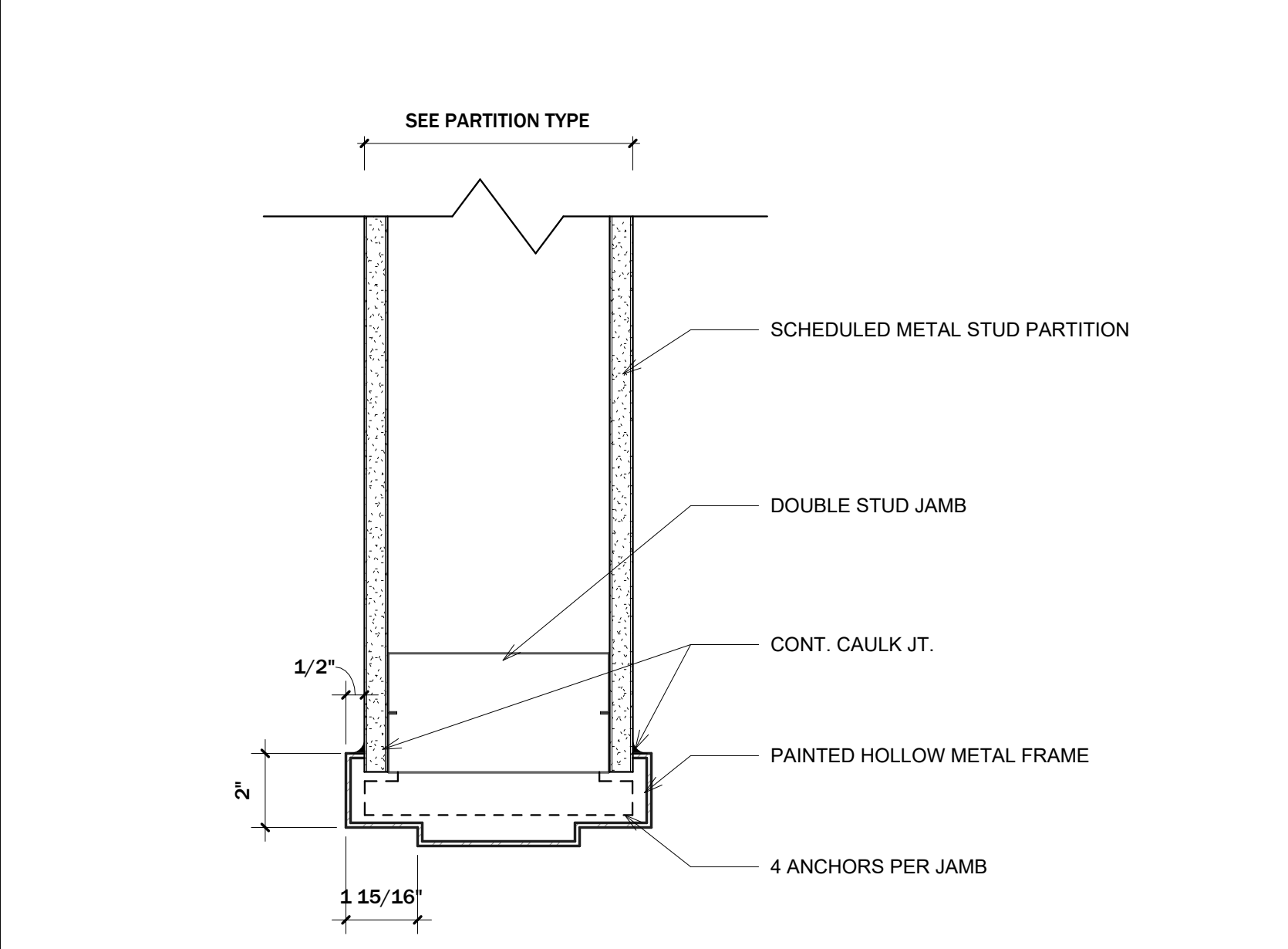
H3 45 Min. Door Head Detail 3" = 1'-0"



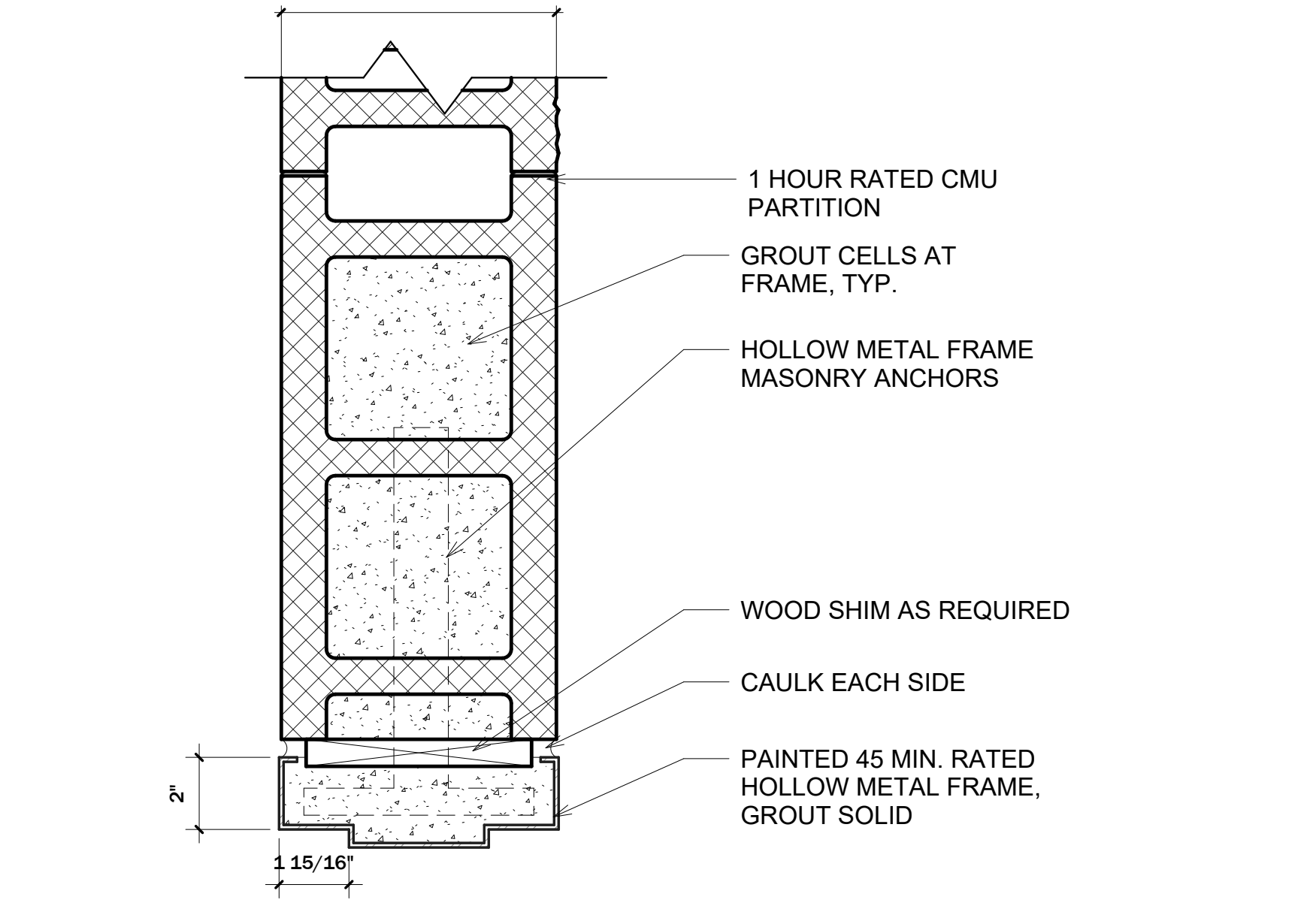
H4 90 Min. Door Head Detail 3" = 1'-0"



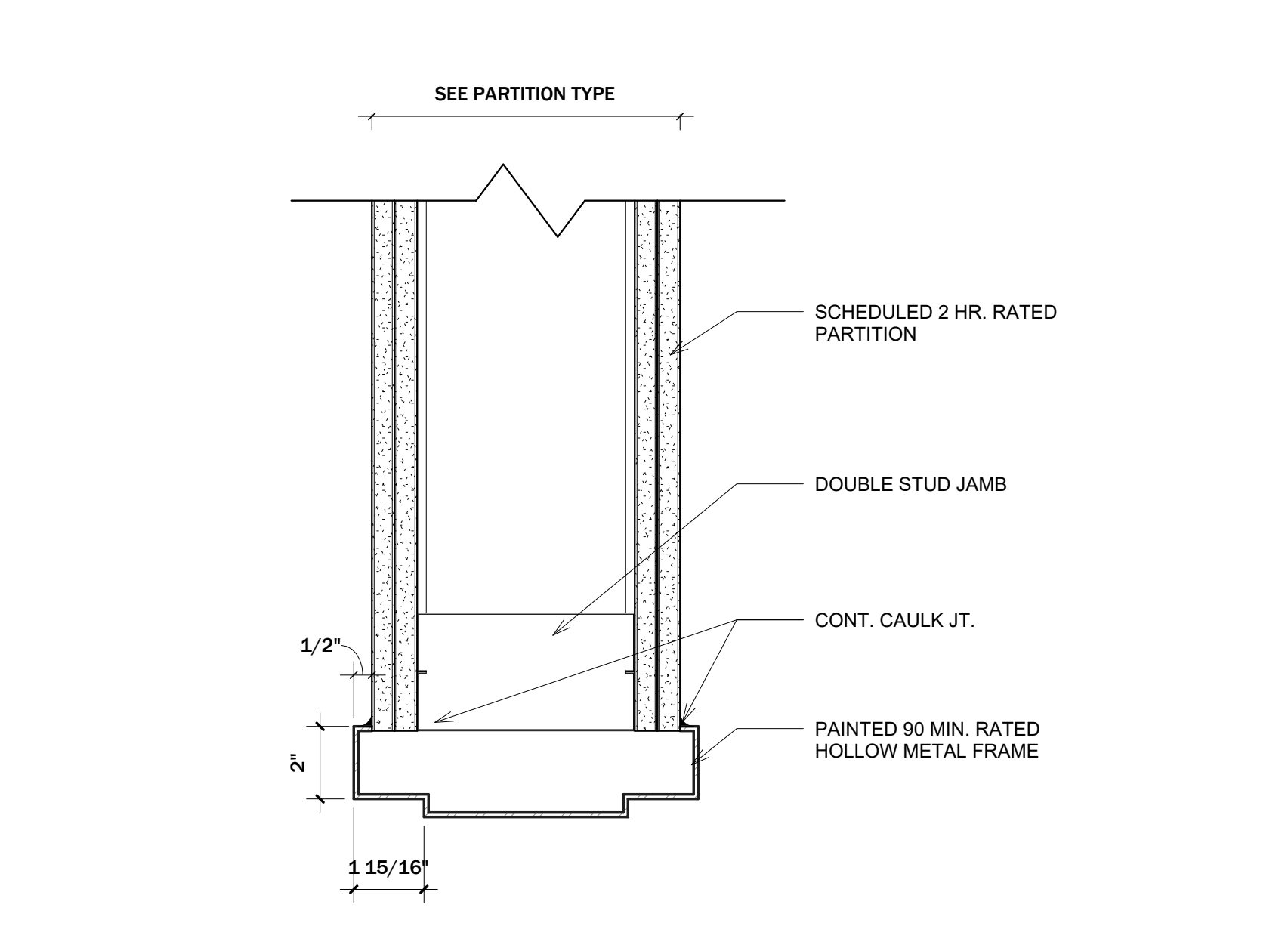
J1 Exterior Door Jamb Detail 3" = 1'-0"



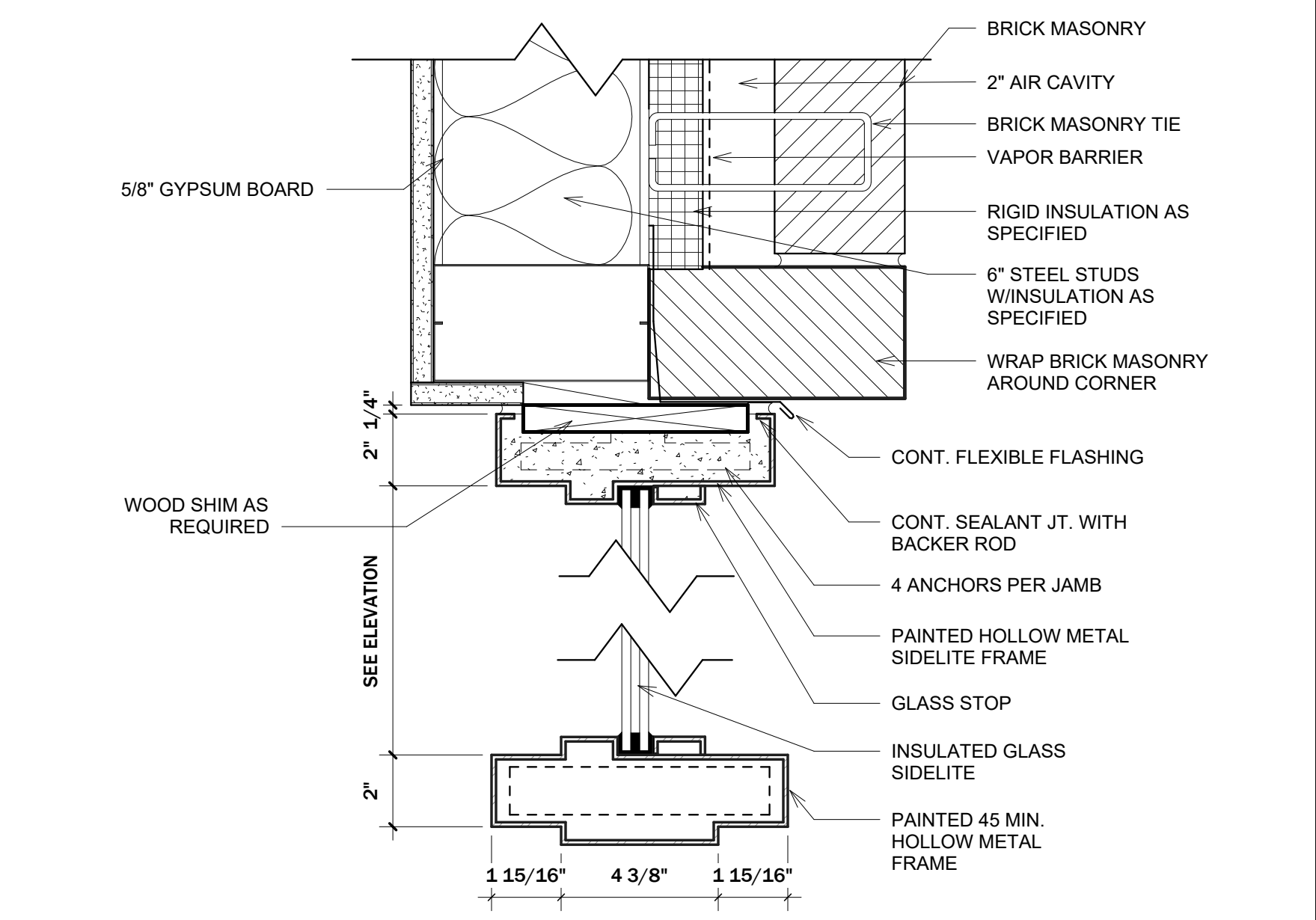
J2 Interior Door Jamb Detail 3" = 1'-0"



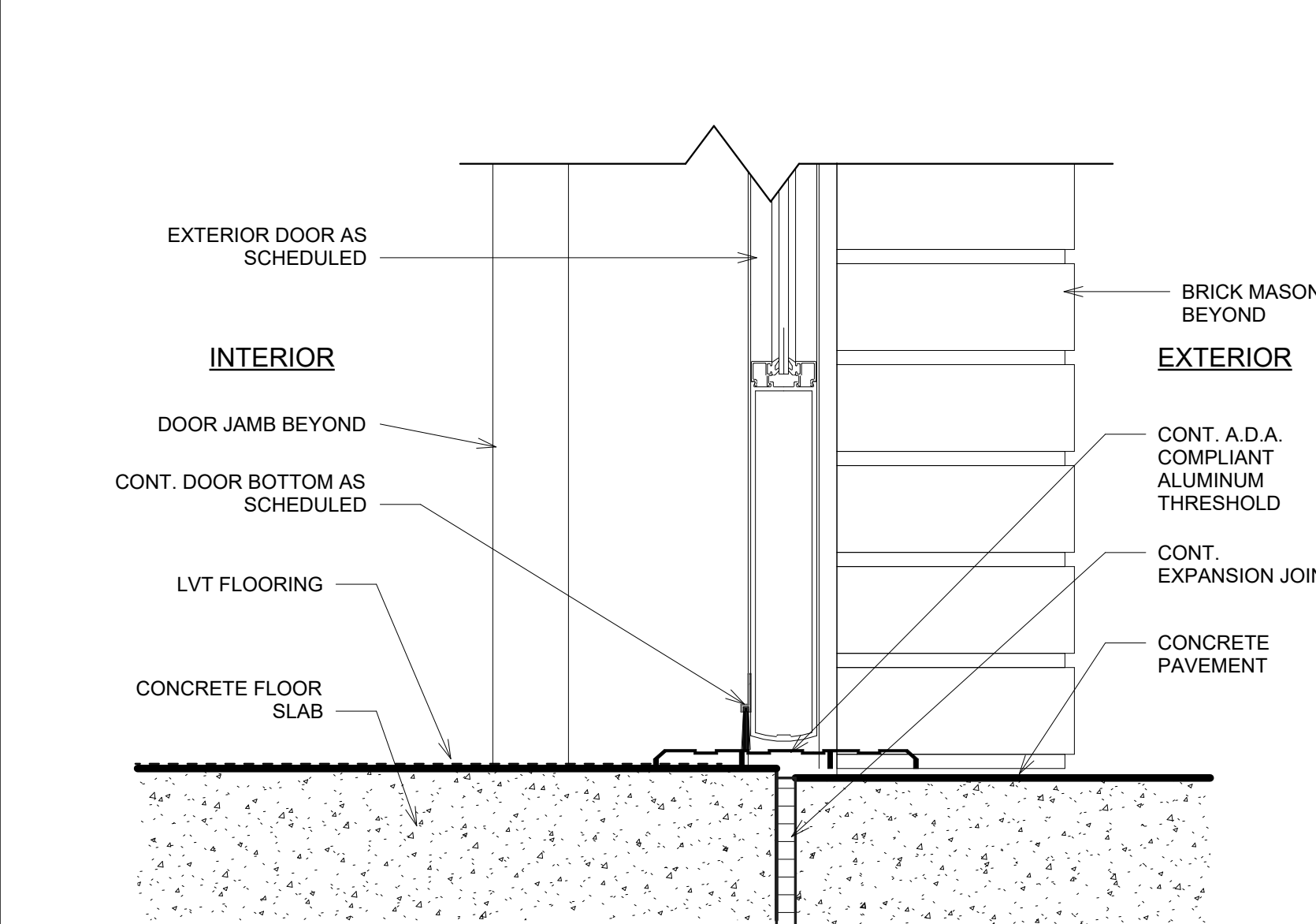
J3 45 Min. Door Jamb Detail 3" = 1'-0"



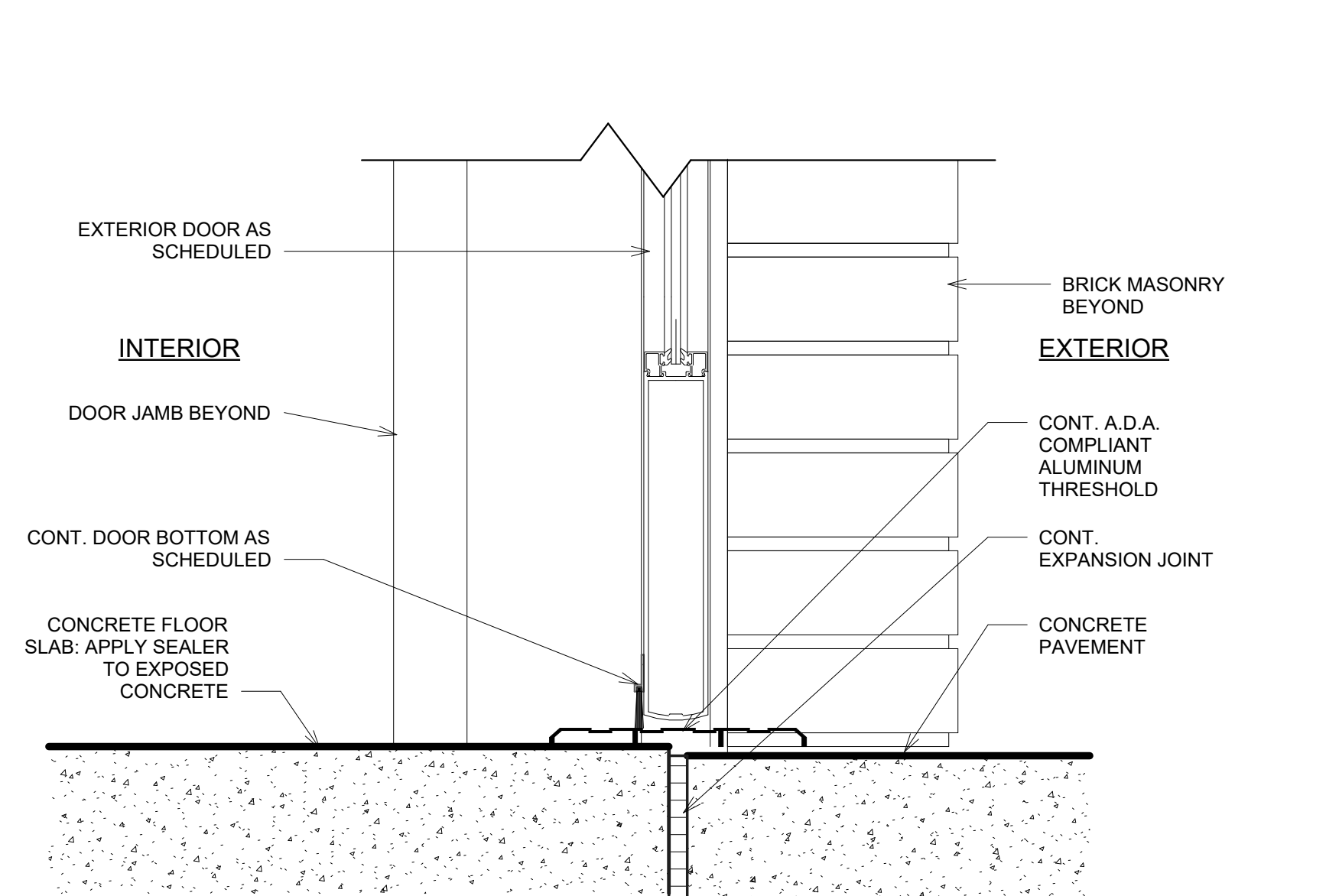
J4 90 Min. Door Jamb Detail 3" = 1'-0"



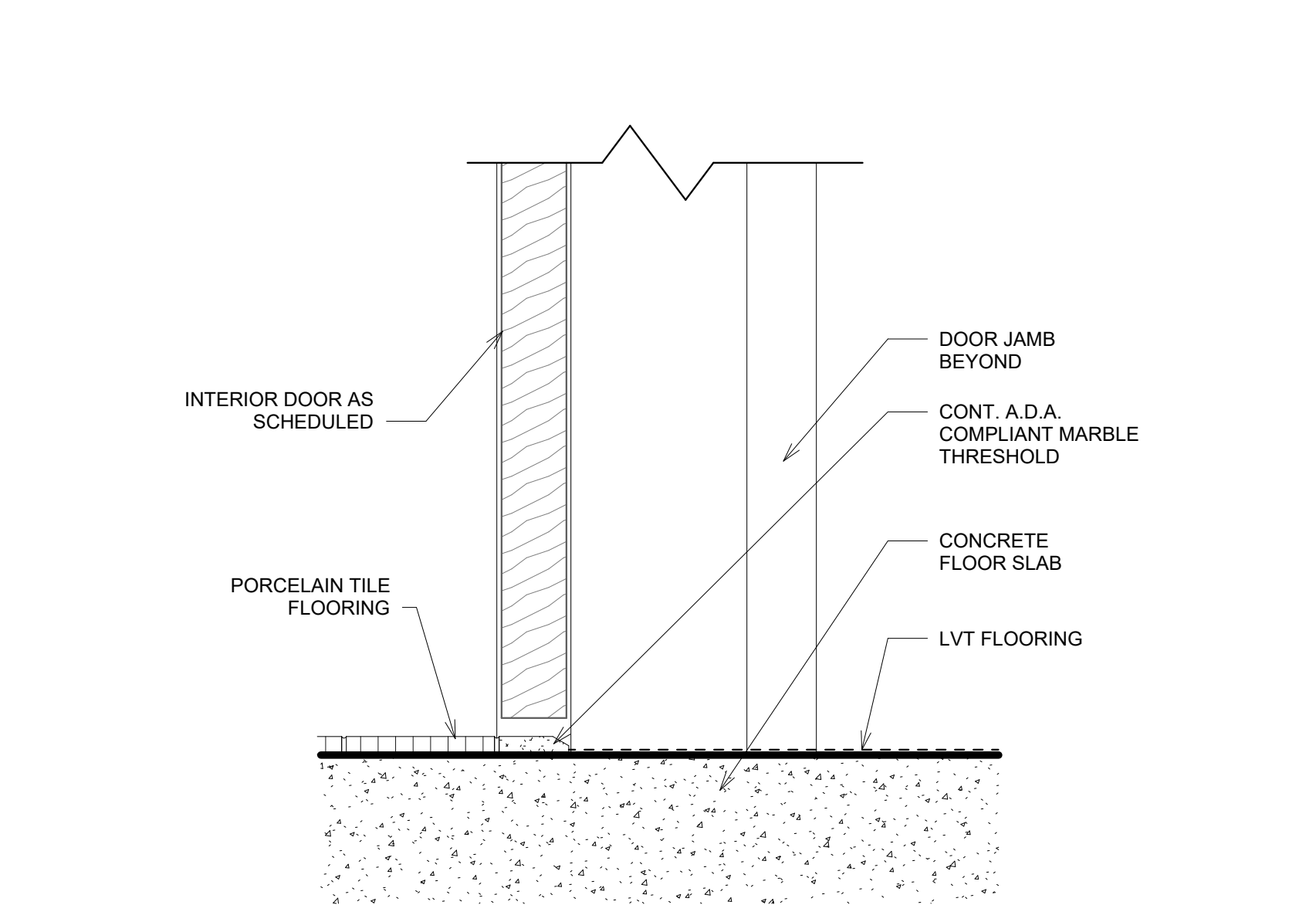
J1A Exterior Sidelite Jamb Detail 3" = 1'-0"



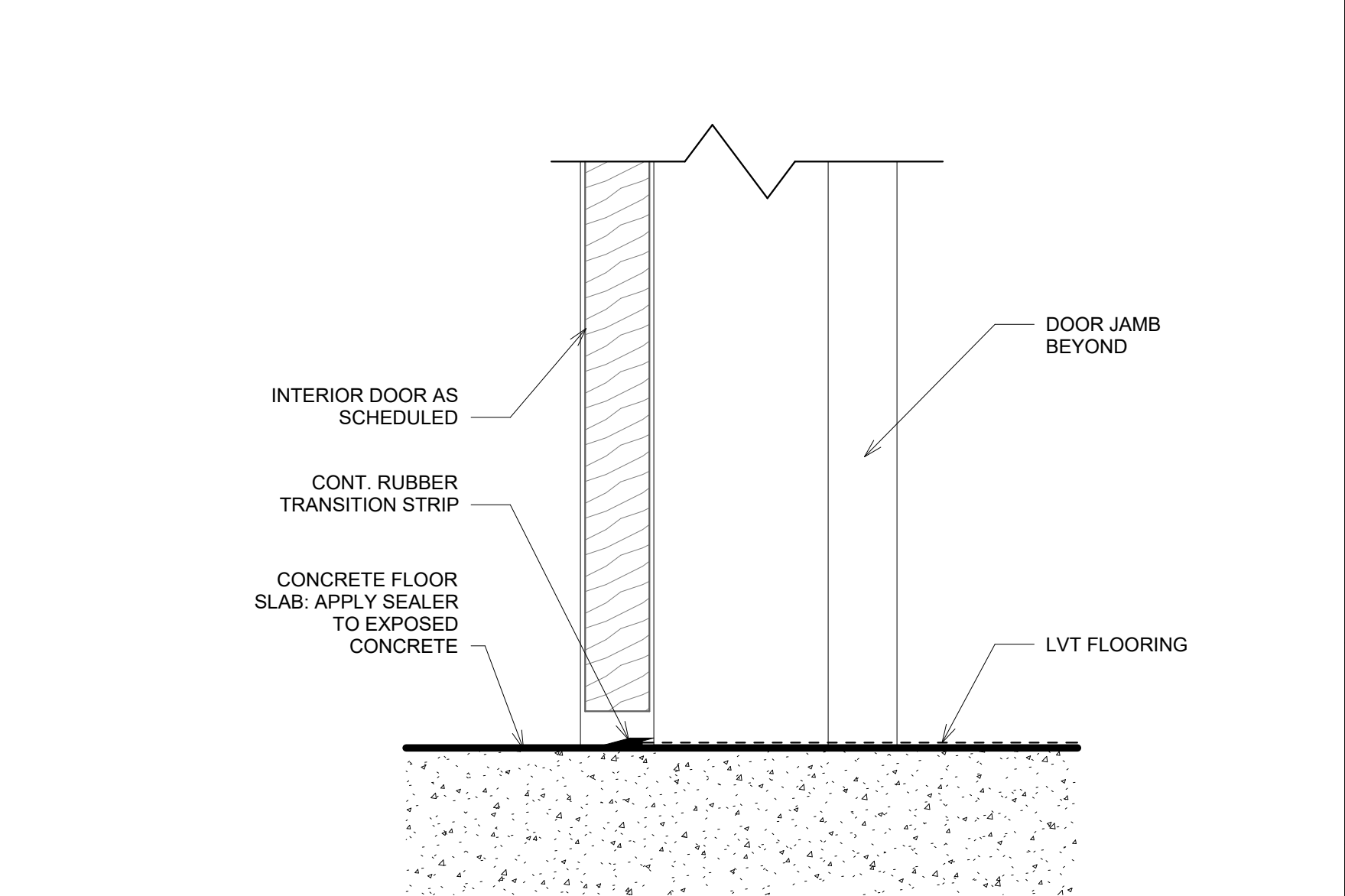
S1 Sill Detail - LVT to Exterior Concrete 3" = 1'-0"



S2 Sill Detail - Exterior to Interior Concrete 3" = 1'-0"



S3 Sill Detail - LVT to Porcelain Tile 3" = 1'-0"



S4 Sill Detail - LVT to Sealed Concrete 3" = 1'-0"



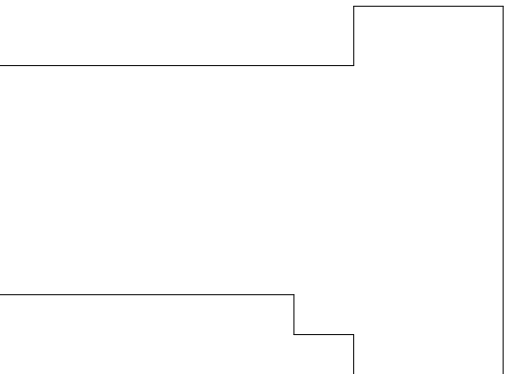
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404.521.2118 (f)

PROJECT NO.

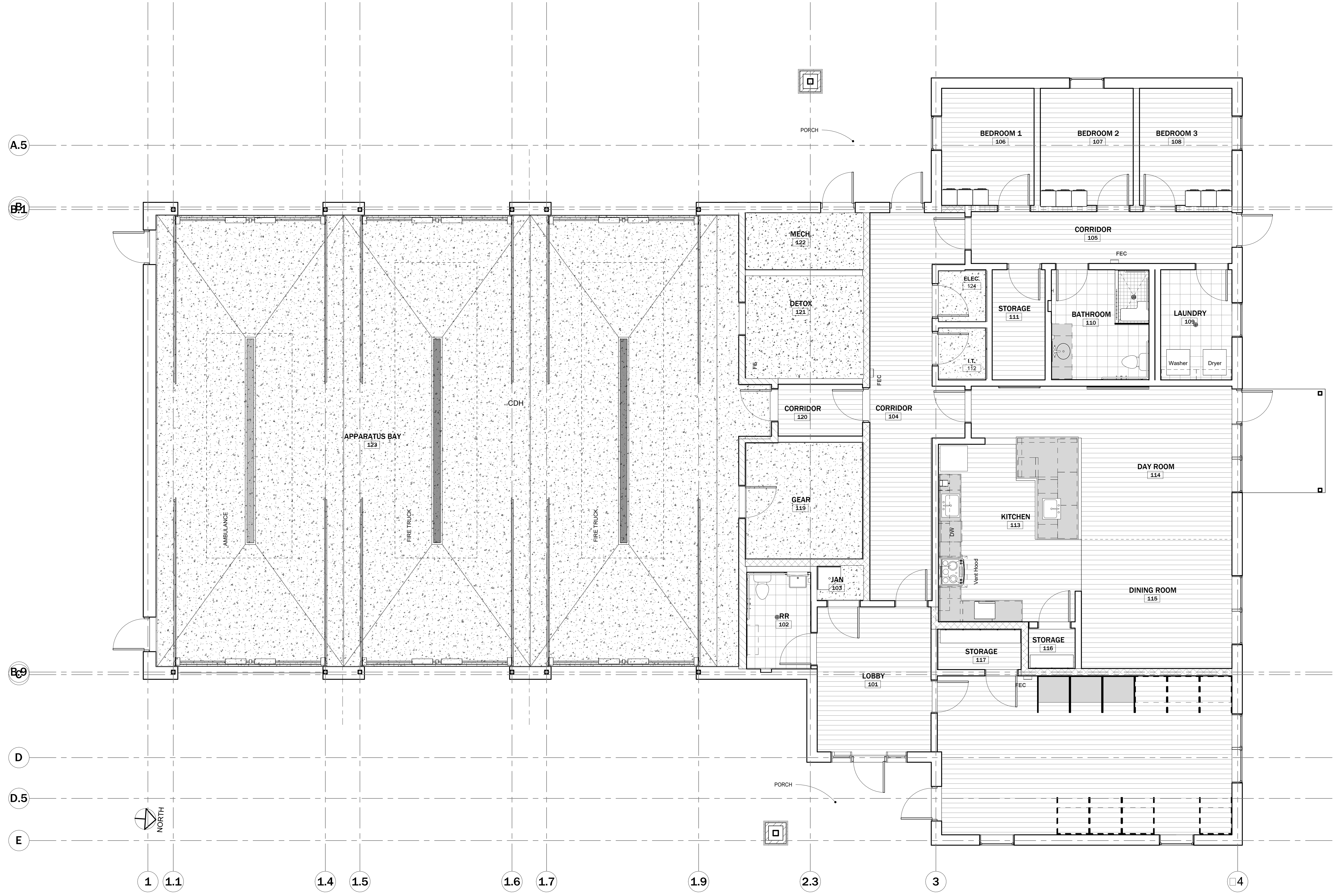
22125

SHEET TITLE

INTERIOR -
FLOORING PLAN

SHEET NO.

A5.01



FLOORING KEY:

	CONCRETE (CONC)
	LUXURY VINYL TILE (LVT)
	PORCELAIN TILE (PT)



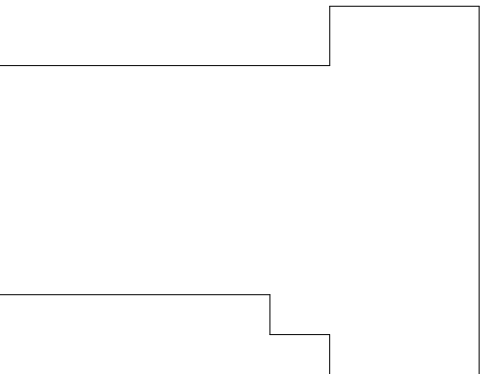
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PROJECT NO.

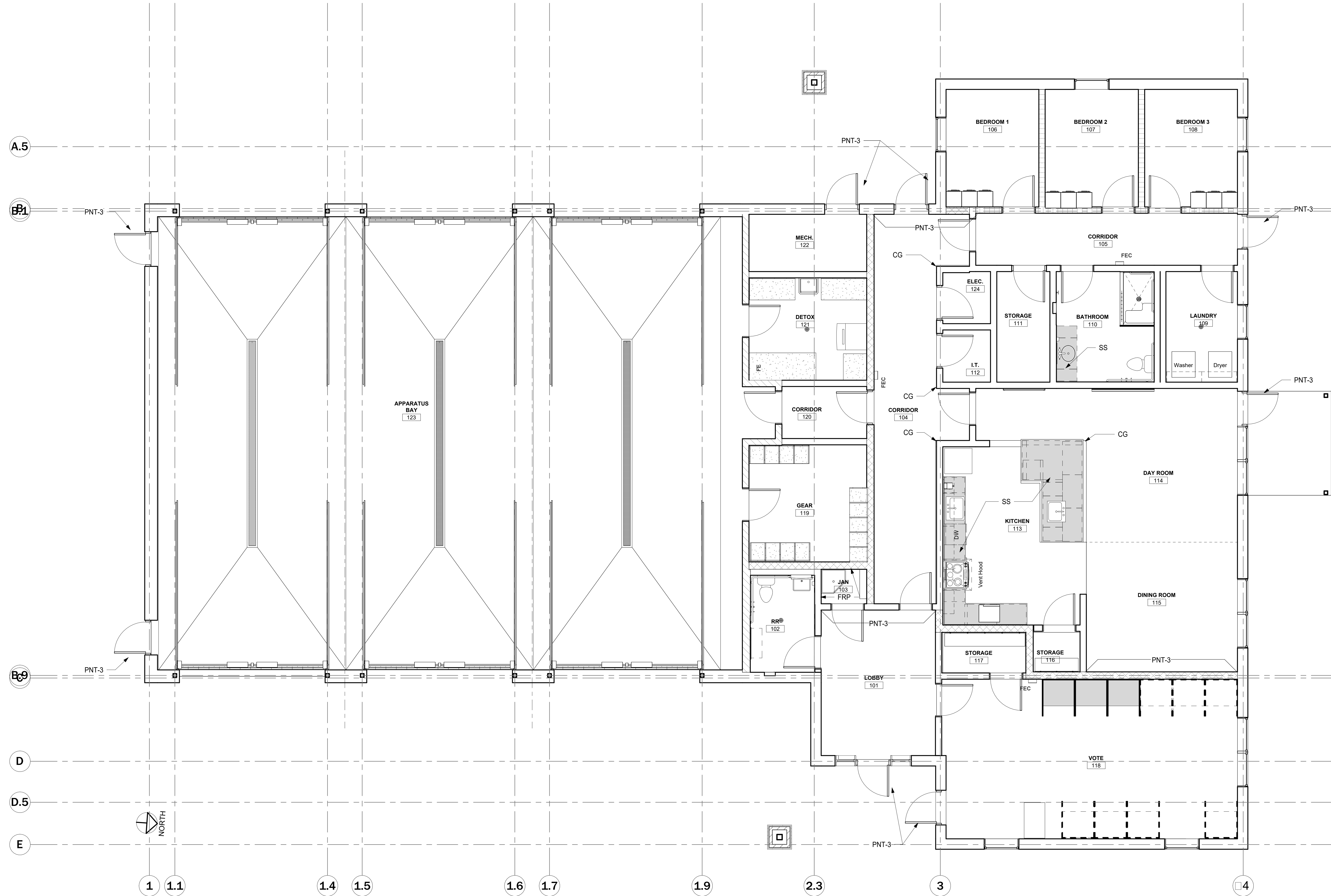
22125

SHEET TITLE

INTERIOR - FINISH
PLAN

SHEET NO.

A5.02





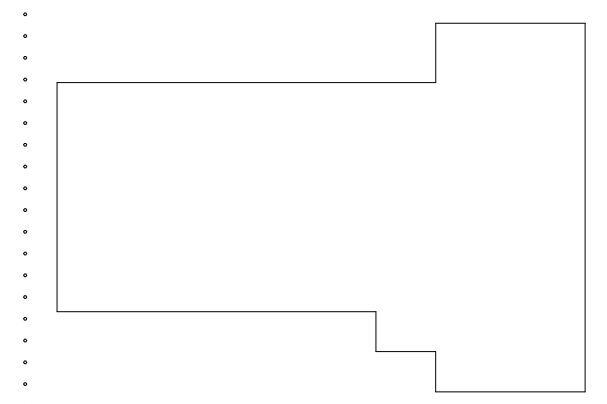
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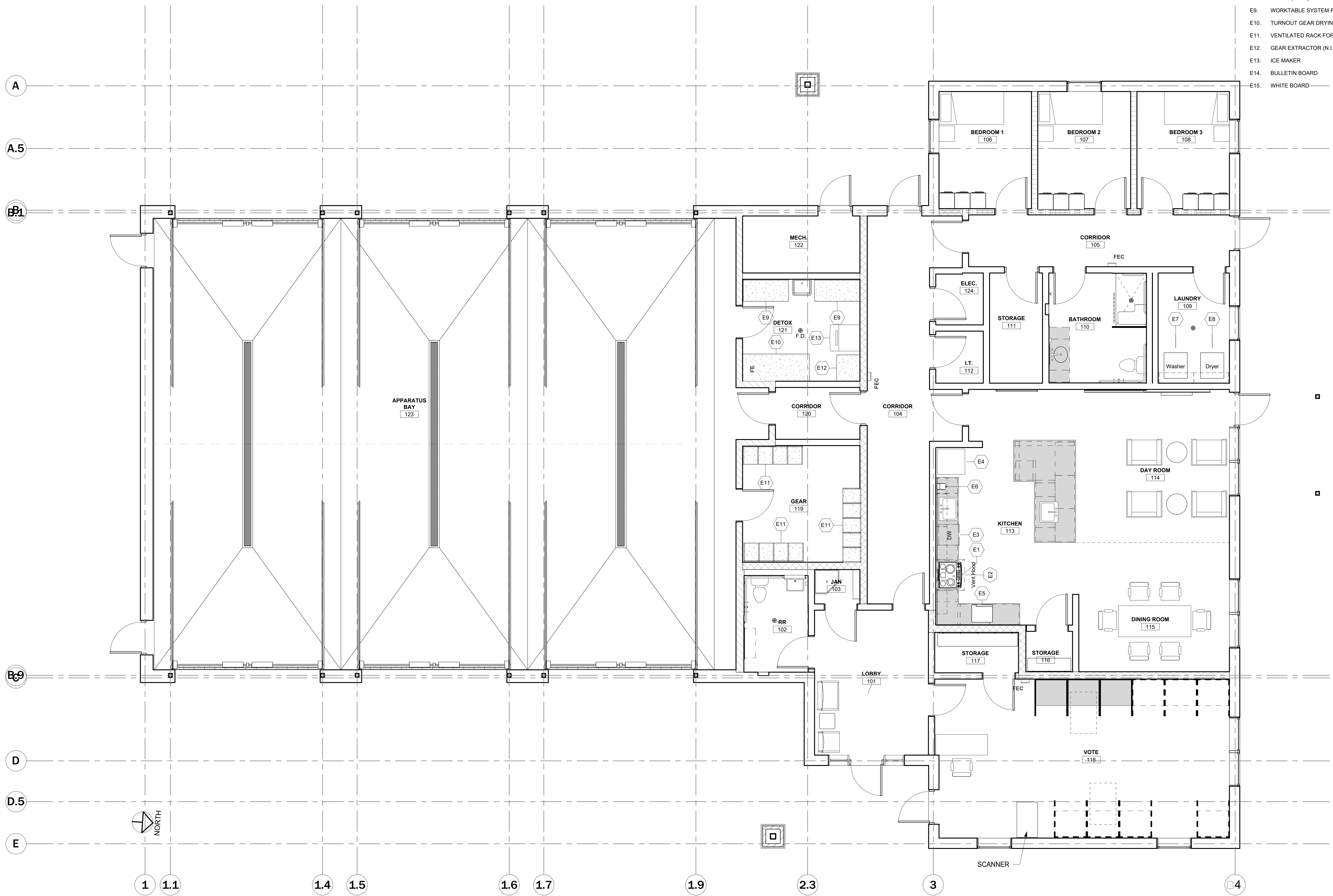
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PROJECT NO. 22125

SHEET TITLE FURNITURE & EQUIPMENT PLAN

SHEET NO. A5.20

- EQUIPMENT LEGEND:**
- E1. COMBINATION OVEN & GAS RANGE (N.I.C.)
 - E2. RANGE HOOD WITH FIRE SUPPRESSION
 - E3. DISHWASHER (N.I.C.)
 - E4. REFRIGERATOR (N.I.C.)
 - E5. MICROWAVE OVEN (N.I.C.)
 - E6. COFFEE MAKER (N.I.C.)
 - E7. WASHING MACHINE (N.I.C.)
 - E8. DRYER (N.I.C.)
 - E9. WORKTABLE SYSTEM RACK (N.I.C.)
 - E10. TURNOUT GEAR DRYING CABINET (N.I.C.)
 - E11. VENTILATED RACK FOR TURNOUT GEAR (N.I.C.)
 - E12. GEAR EXTRACTOR (N.I.C.)
 - E13. ICE MAKER
 - E14. BULLETIN BOARD
 - E15. WHITE BOARD





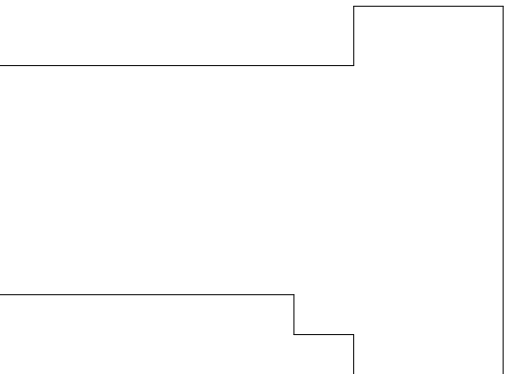
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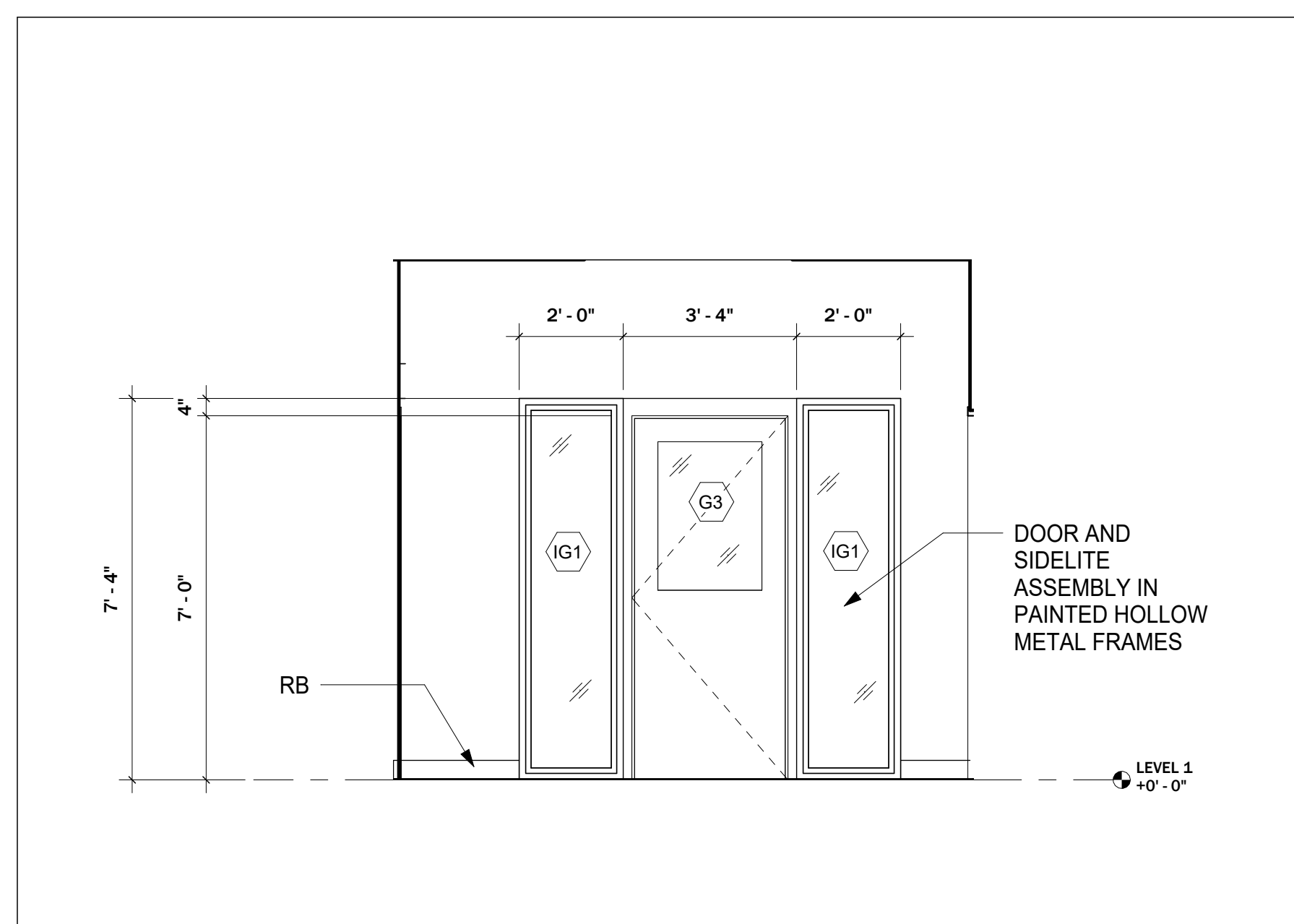
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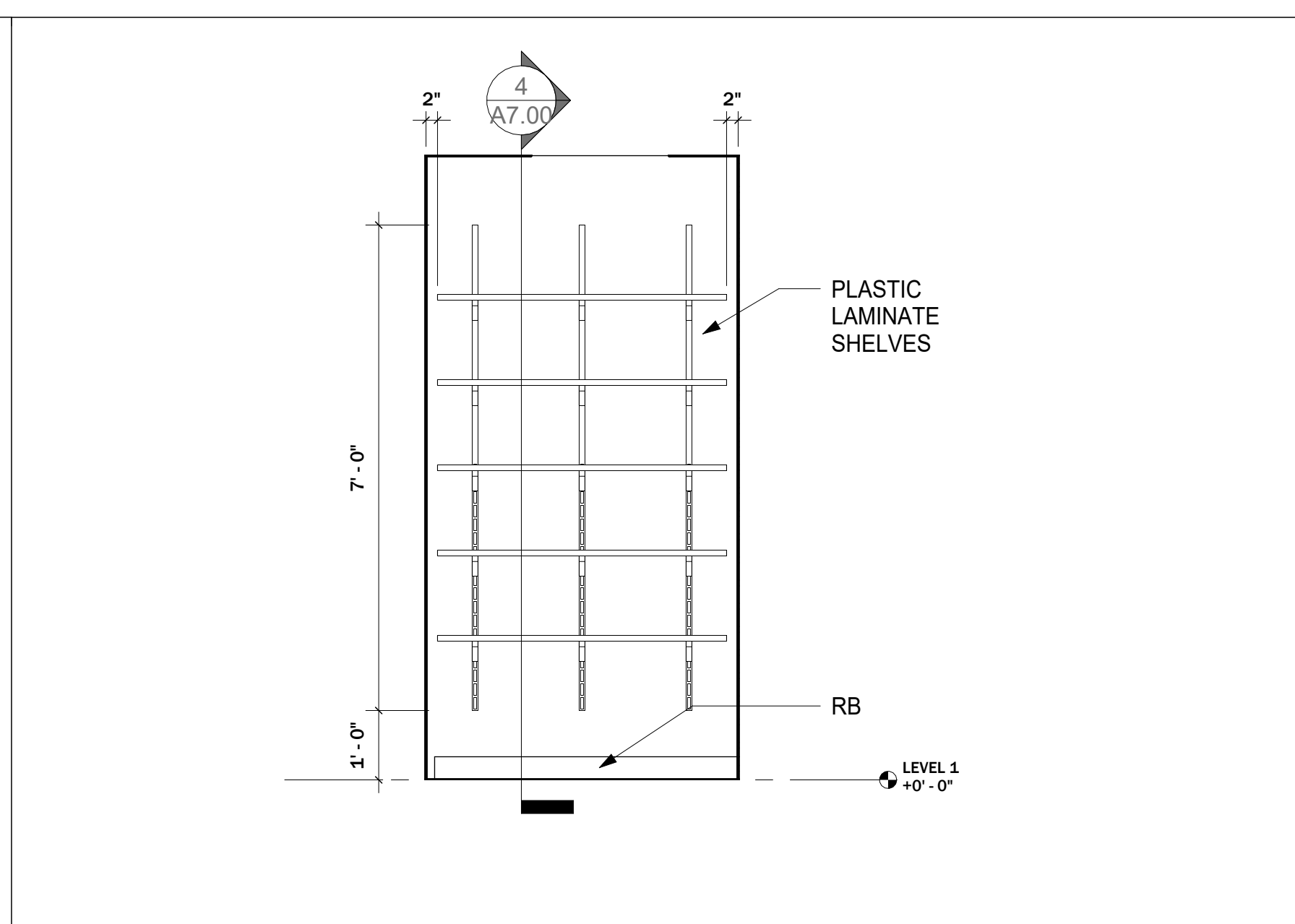
PROJECT NO.
22125

SHEET TITLE
INTERIOR ELEVATIONS

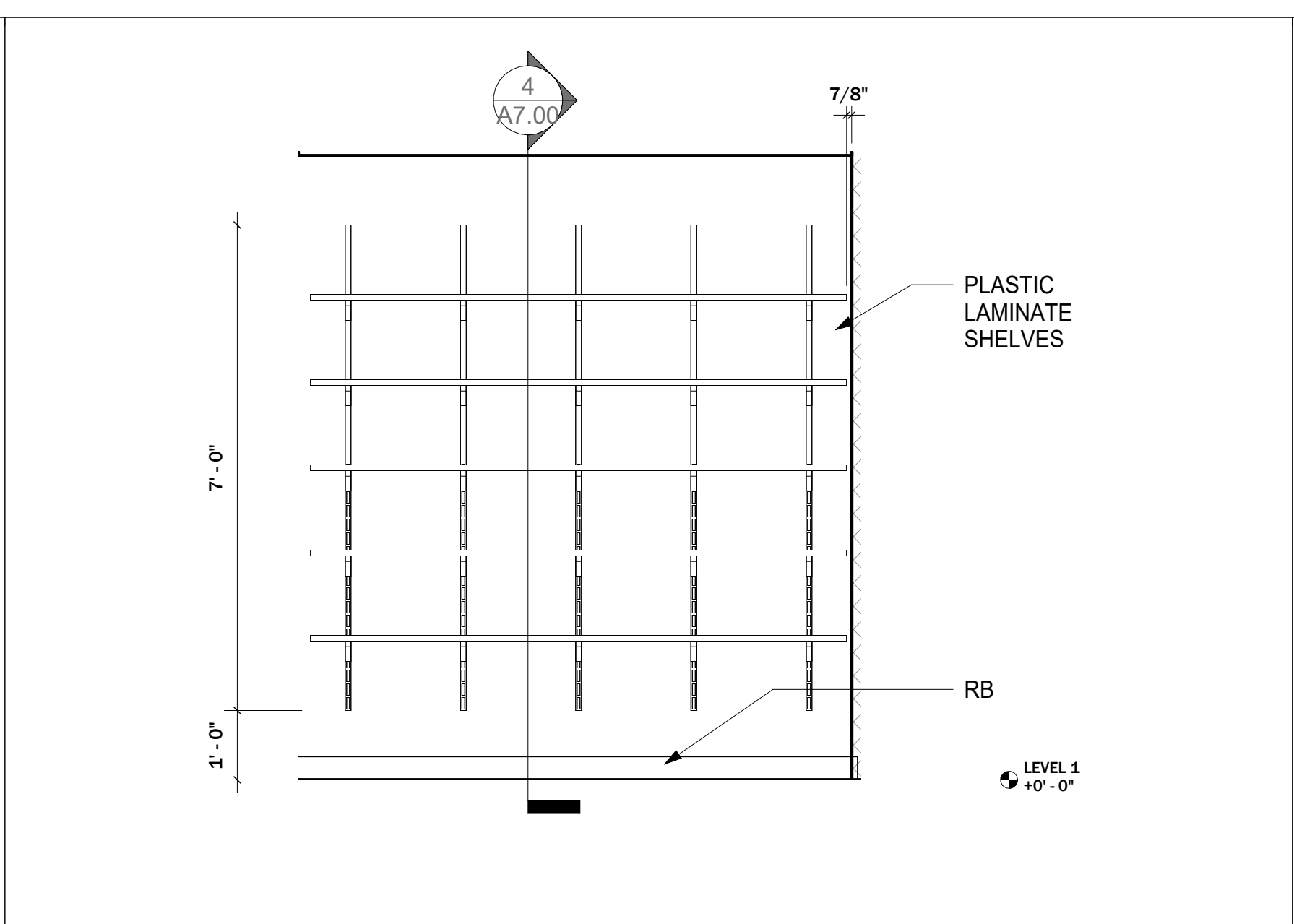
SHEET NO.
A6.00



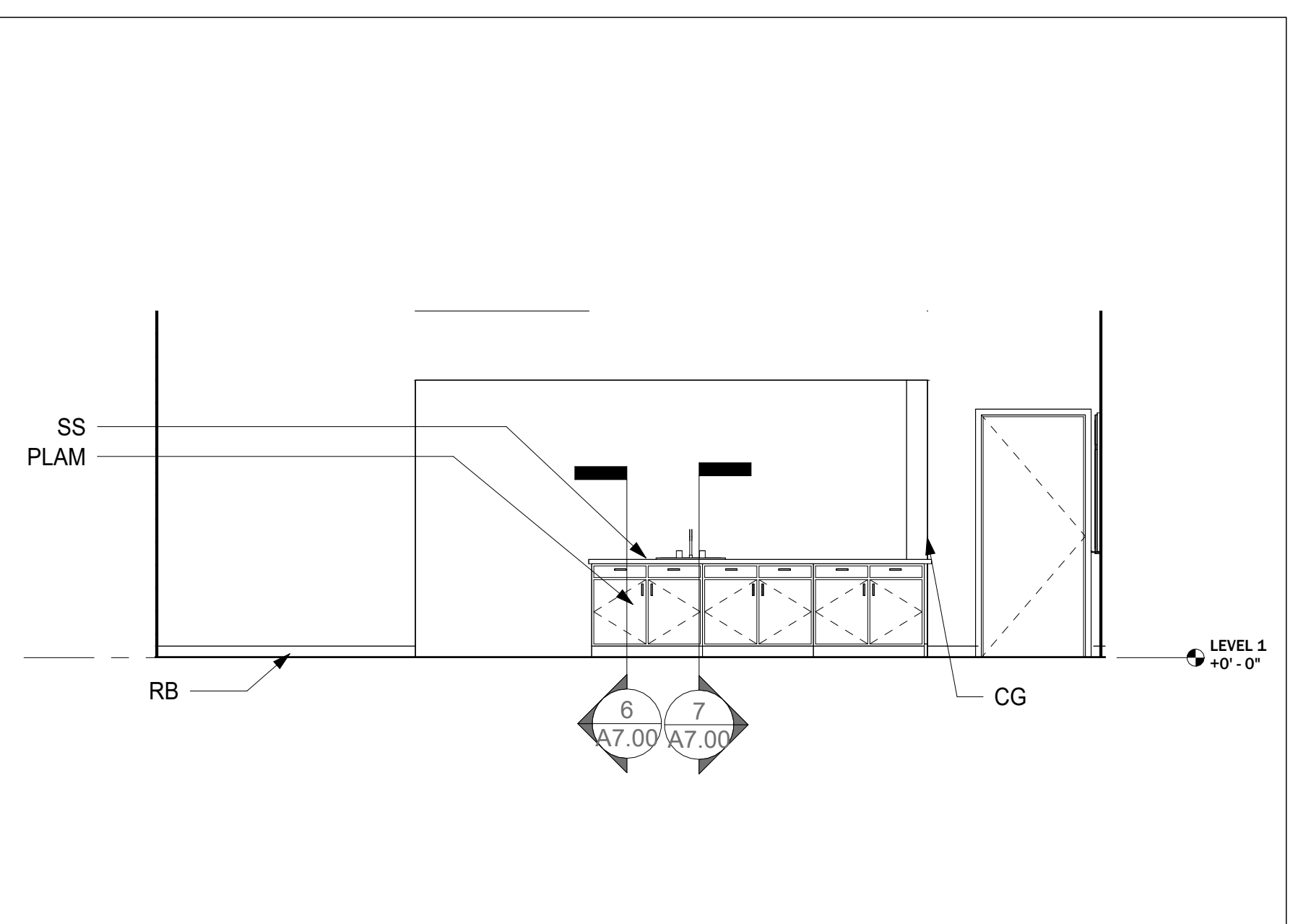
1 Lobby 101 3/8" = 1'-0"



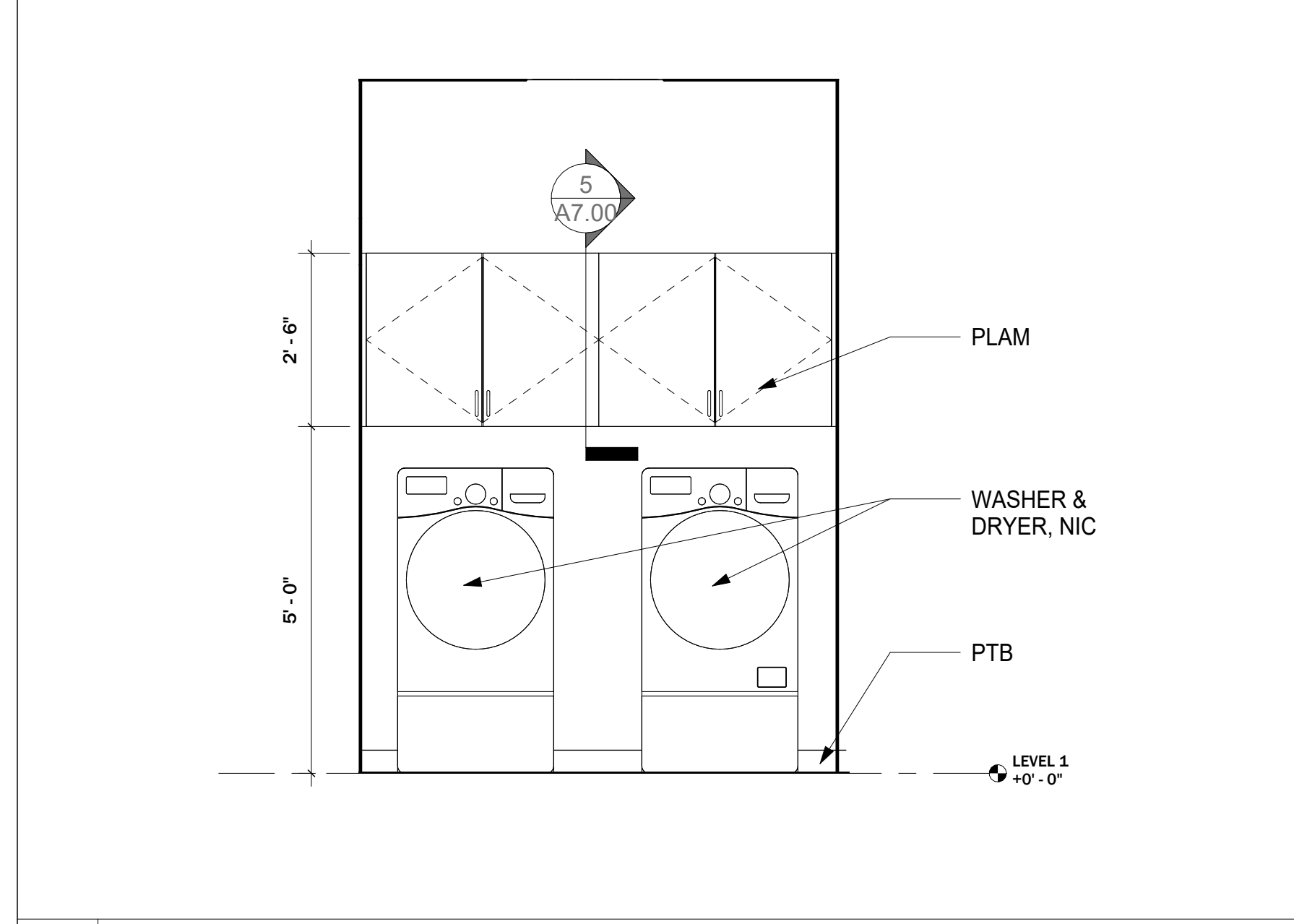
2 Storage 116 1/2" = 1'-0"



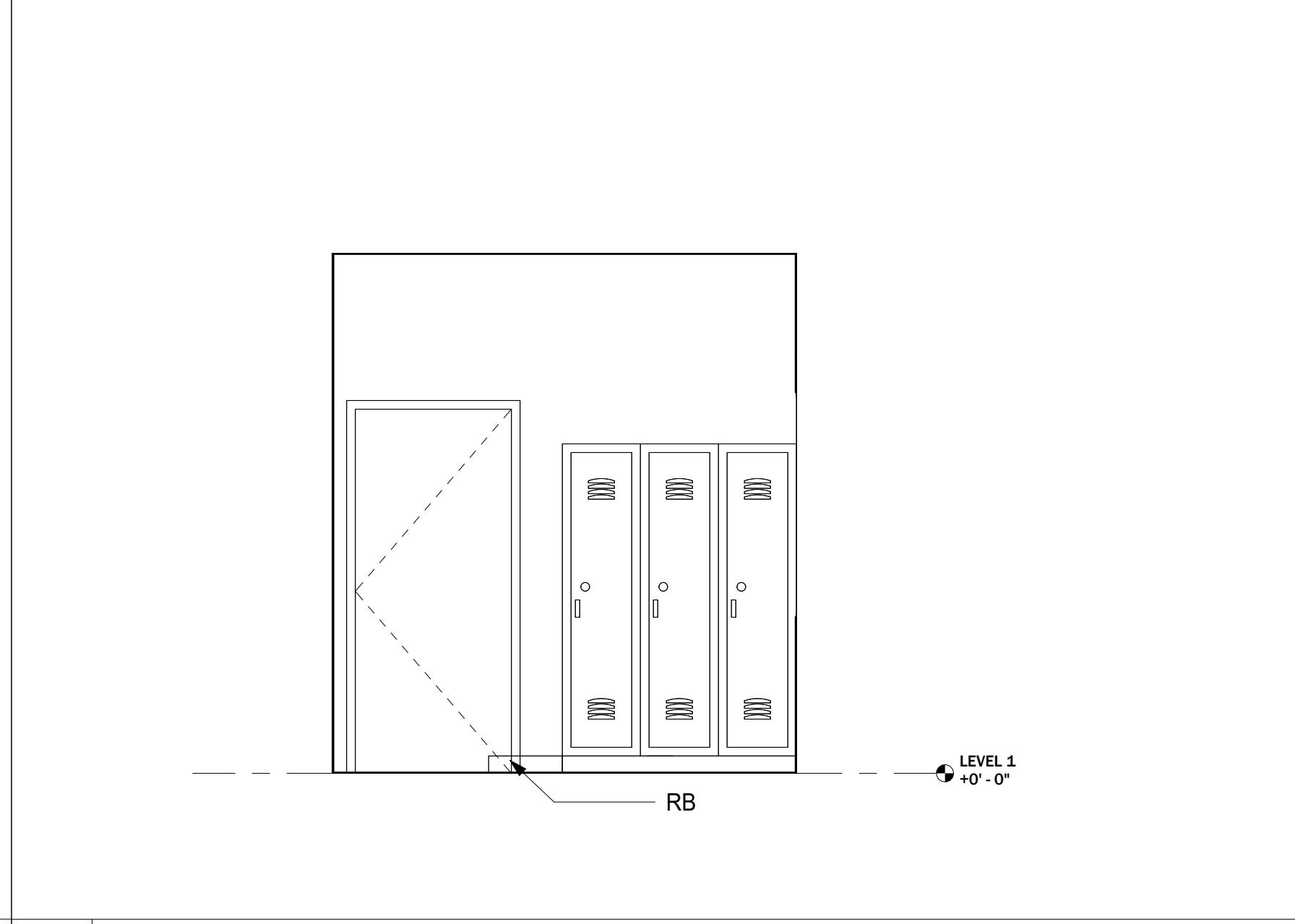
3 Storage 117 1/2" = 1'-0"



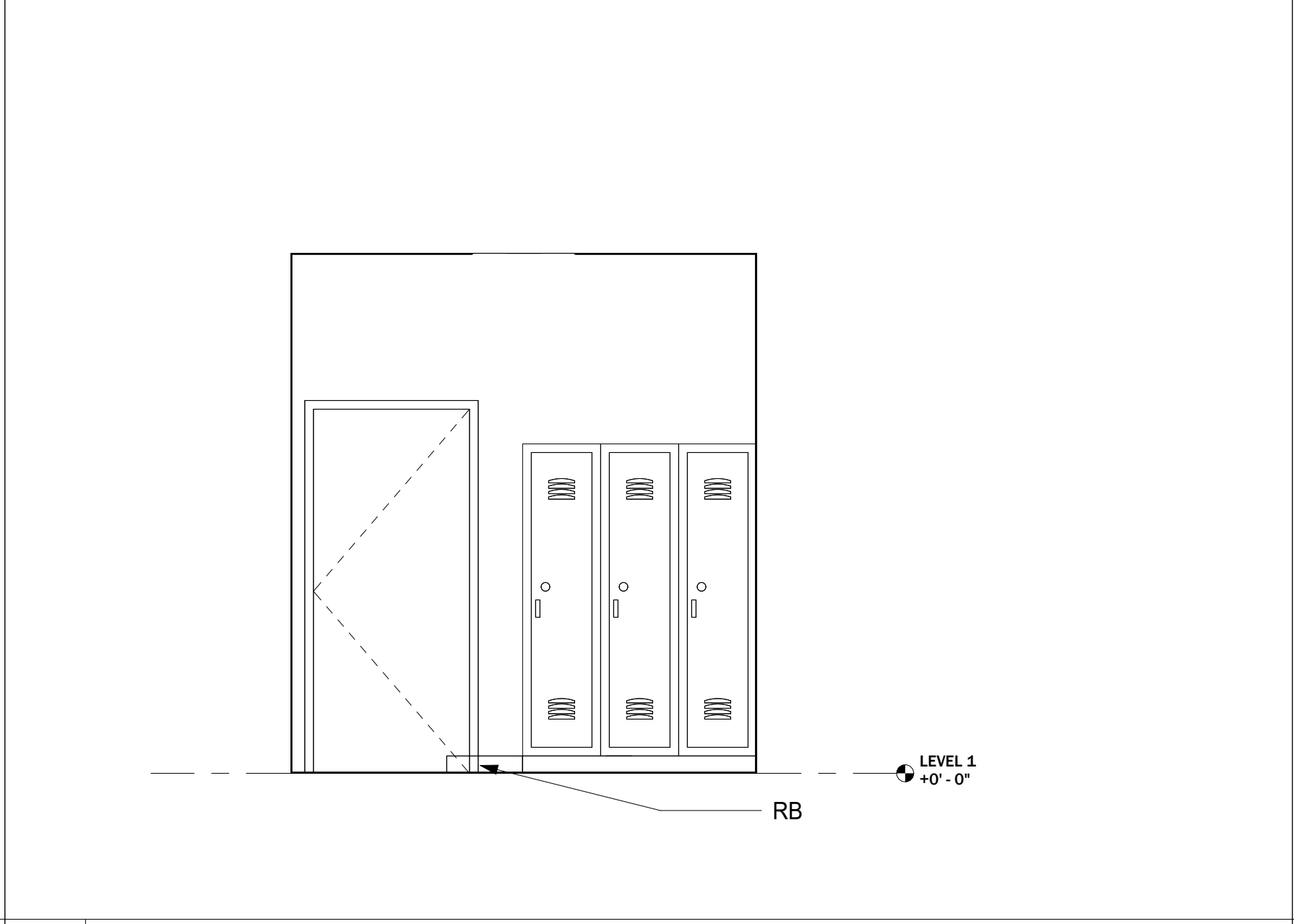
4 Dining Room/Day Room 1/4" = 1'-0"



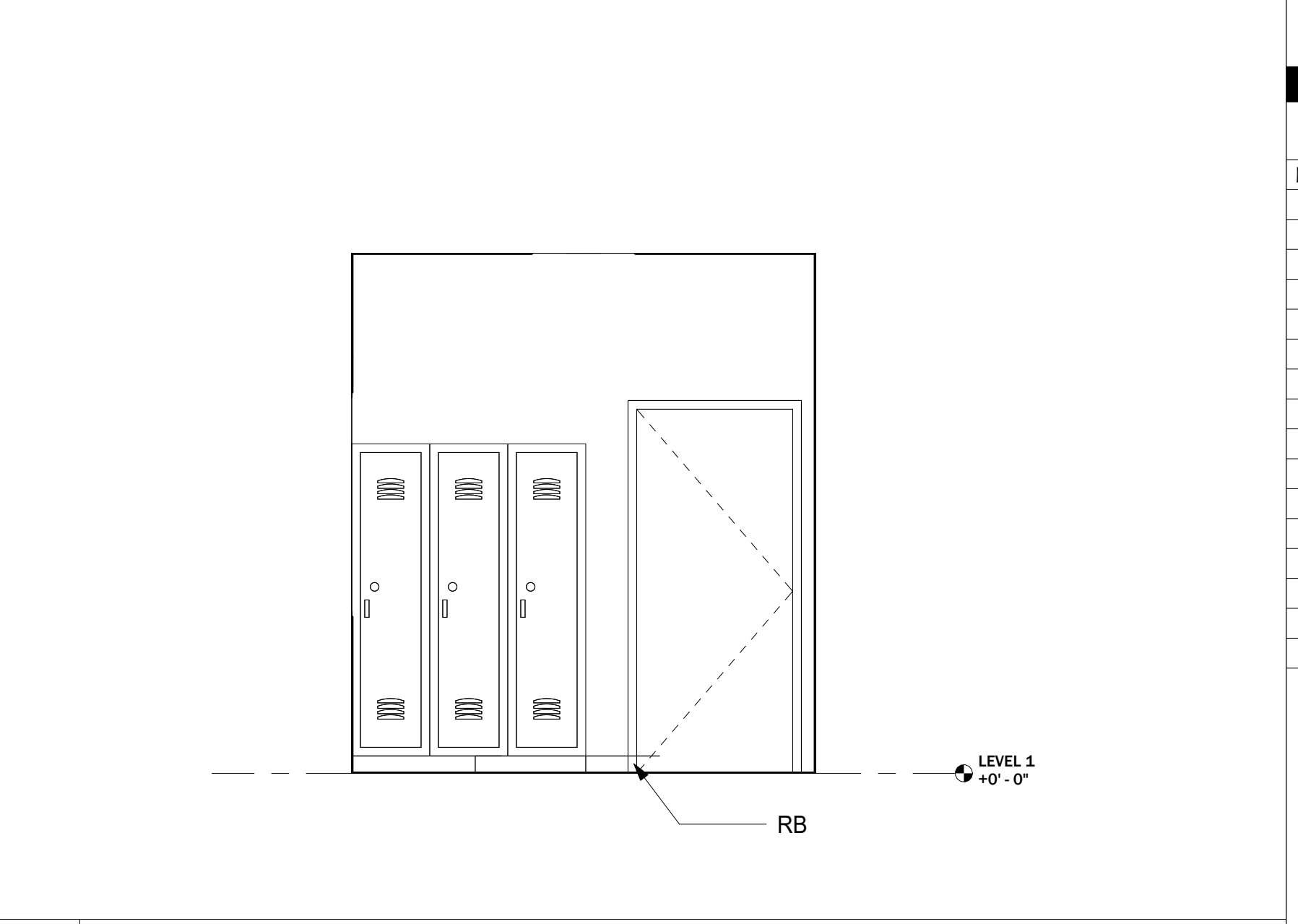
5 Laundry 109 1/2" = 1'-0"



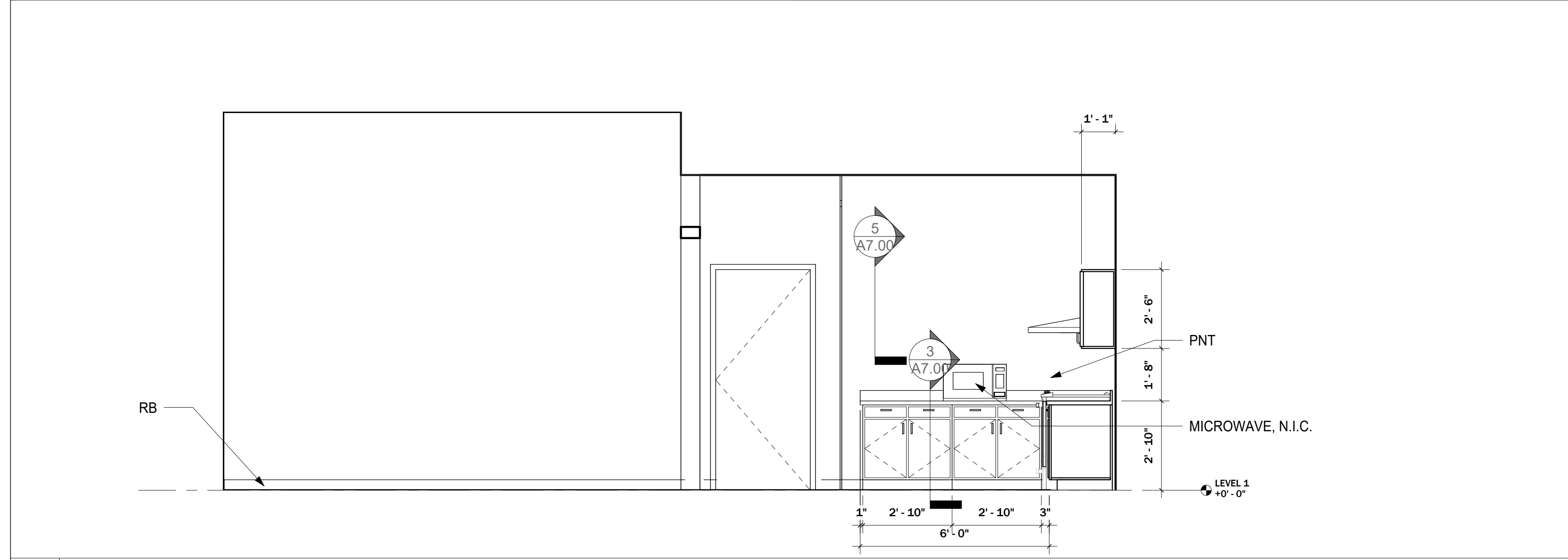
6 Bedroom 1 106 3/8" = 1'-0"



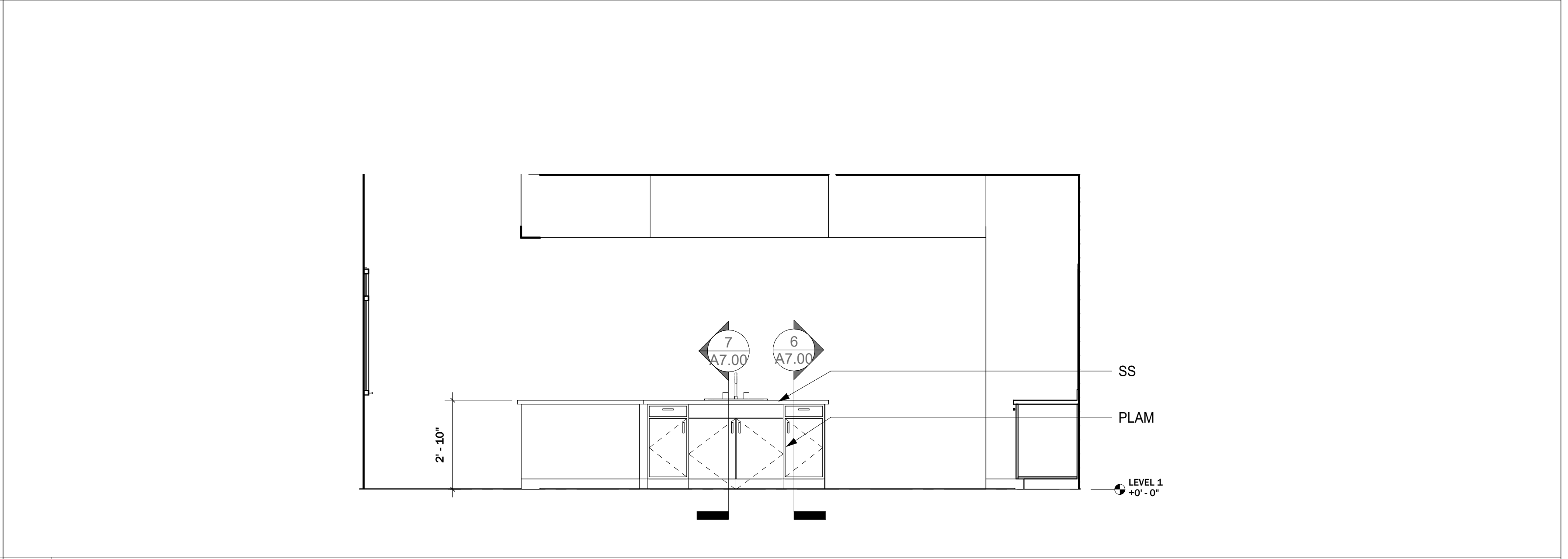
7 Bedroom 2 107 3/8" = 1'-0"



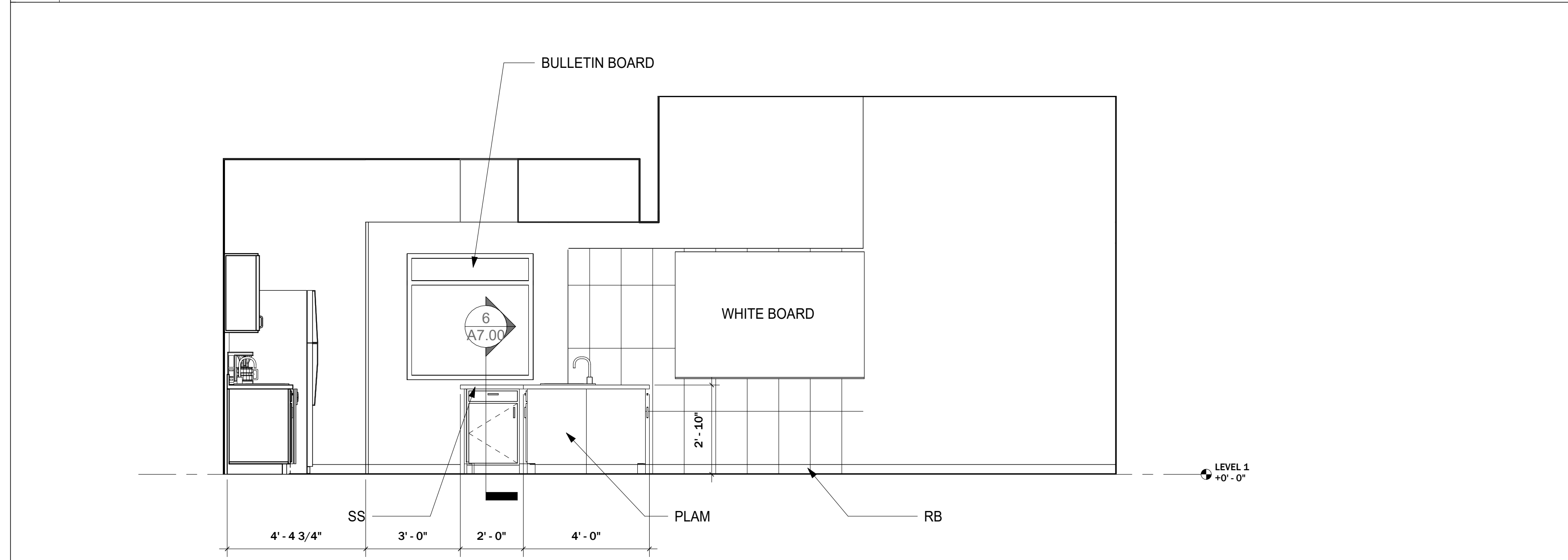
8 Bedroom 3 108 3/8" = 1'-0"



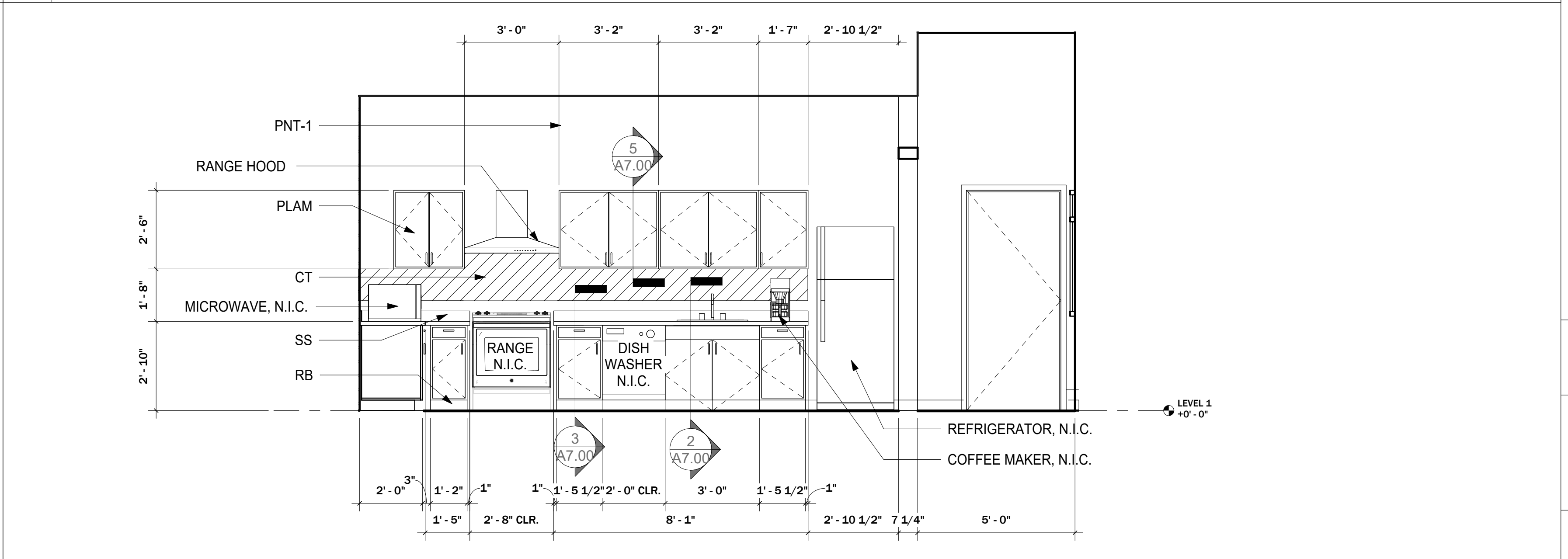
9 Kitchen 113 3/8" = 1'-0"



10 Kitchen 113 3/8" = 1'-0"



11 Kitchen 113 3/8" = 1'-0"



12 Kitchen 113 3/8" = 1'-0"



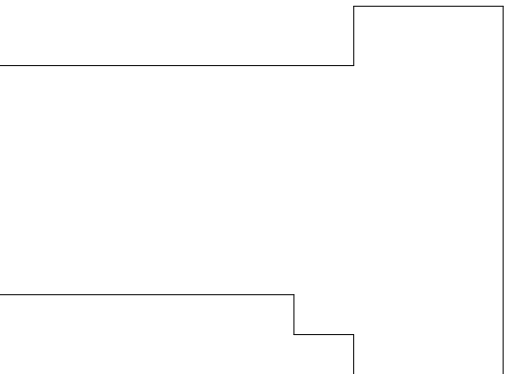
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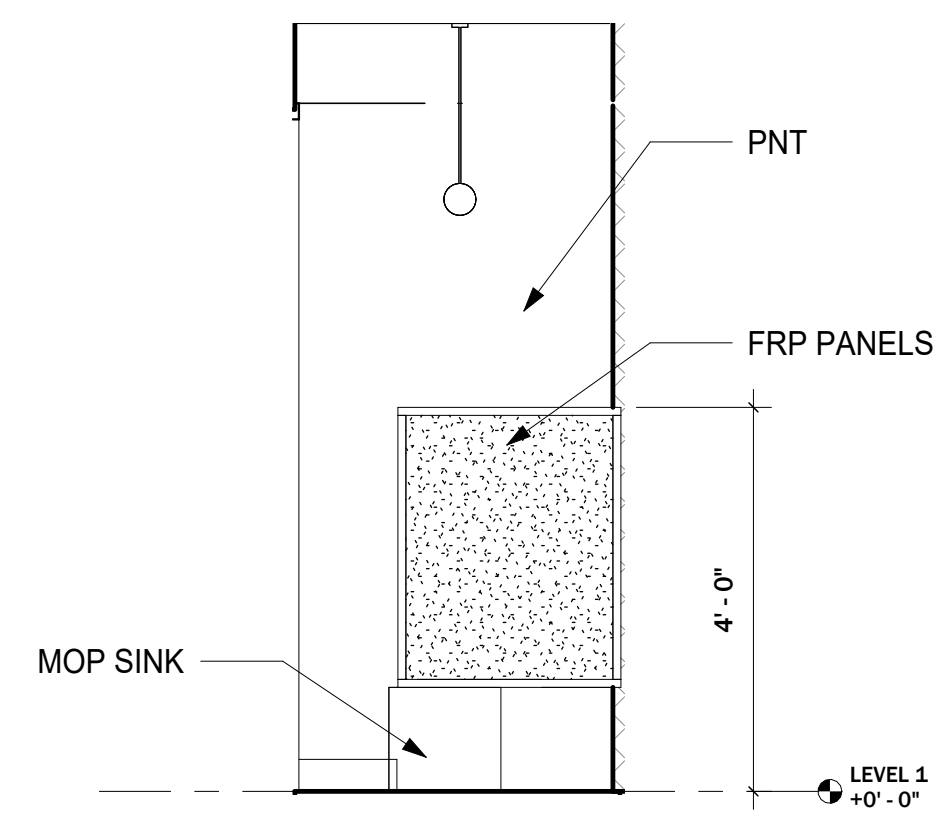
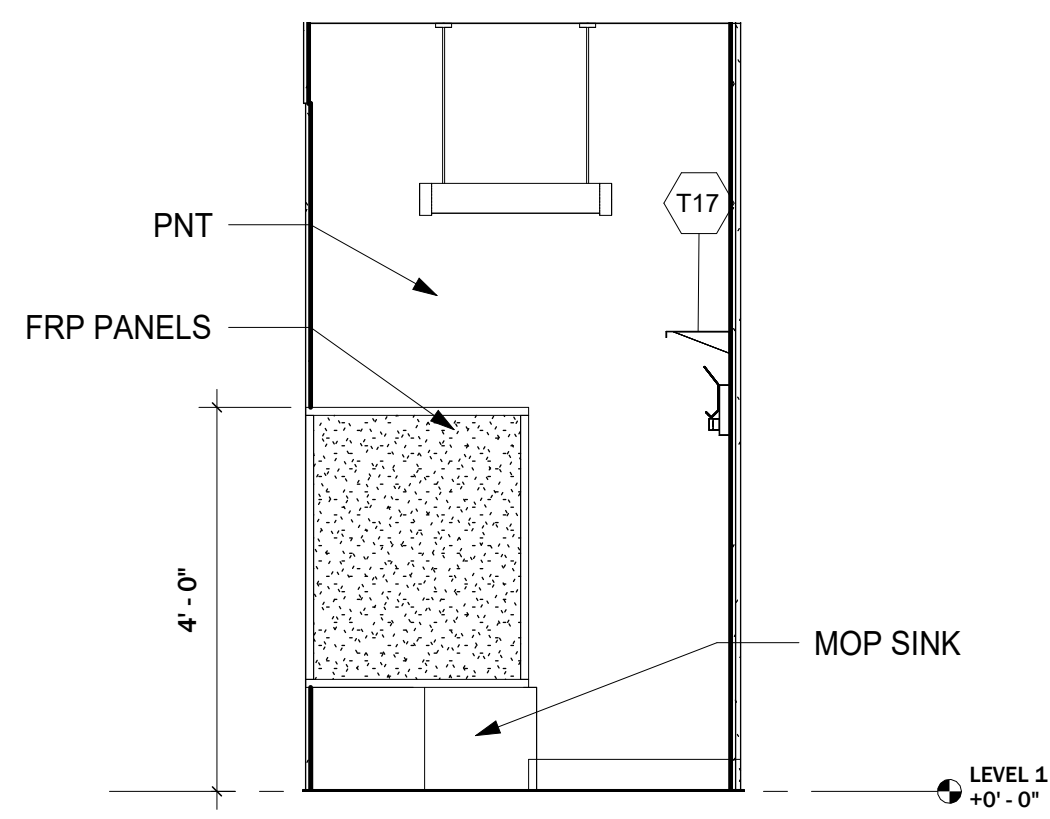
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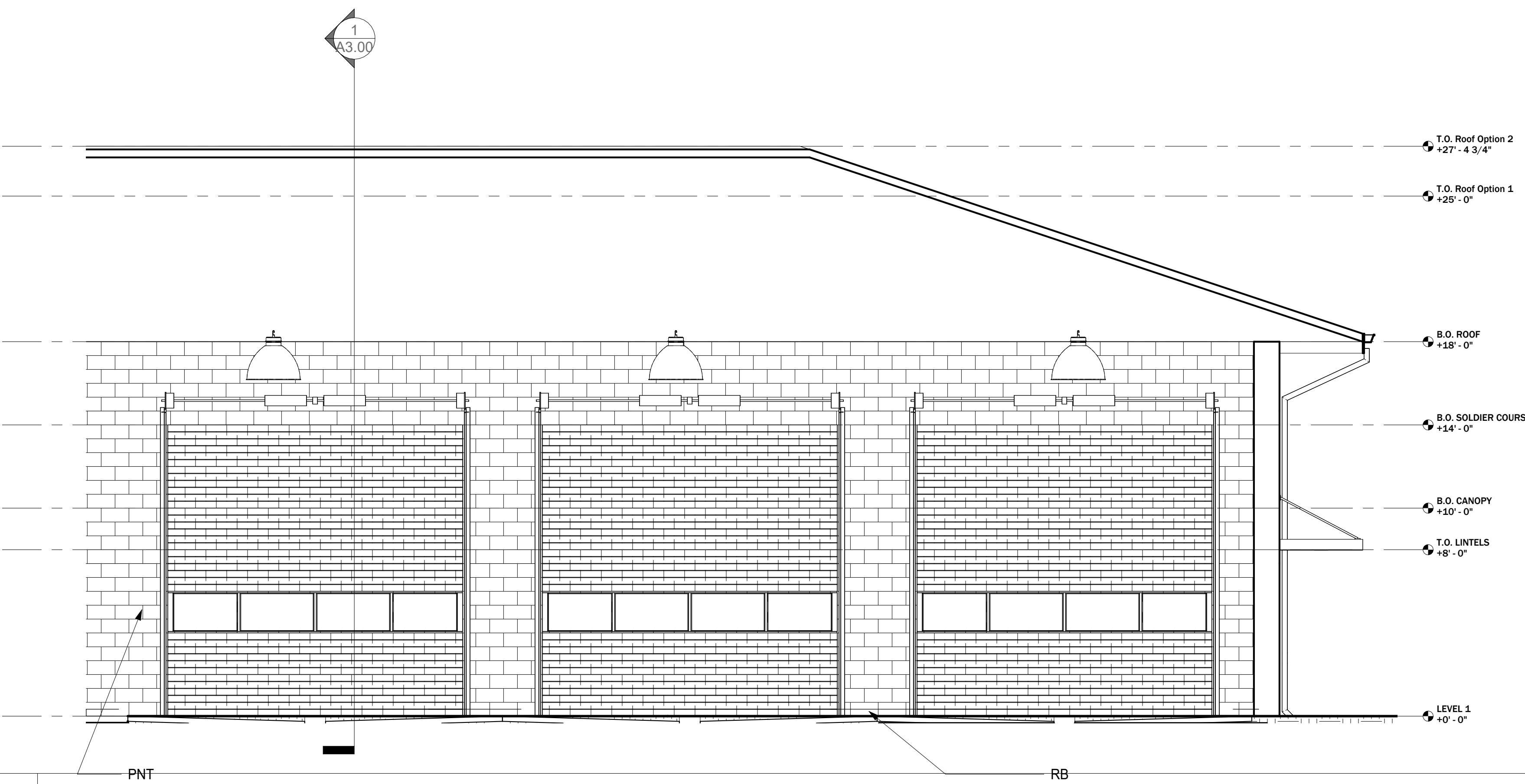
PROJECT NO.
22125

SHEET TITLE
INTERIOR ELEVATIONS

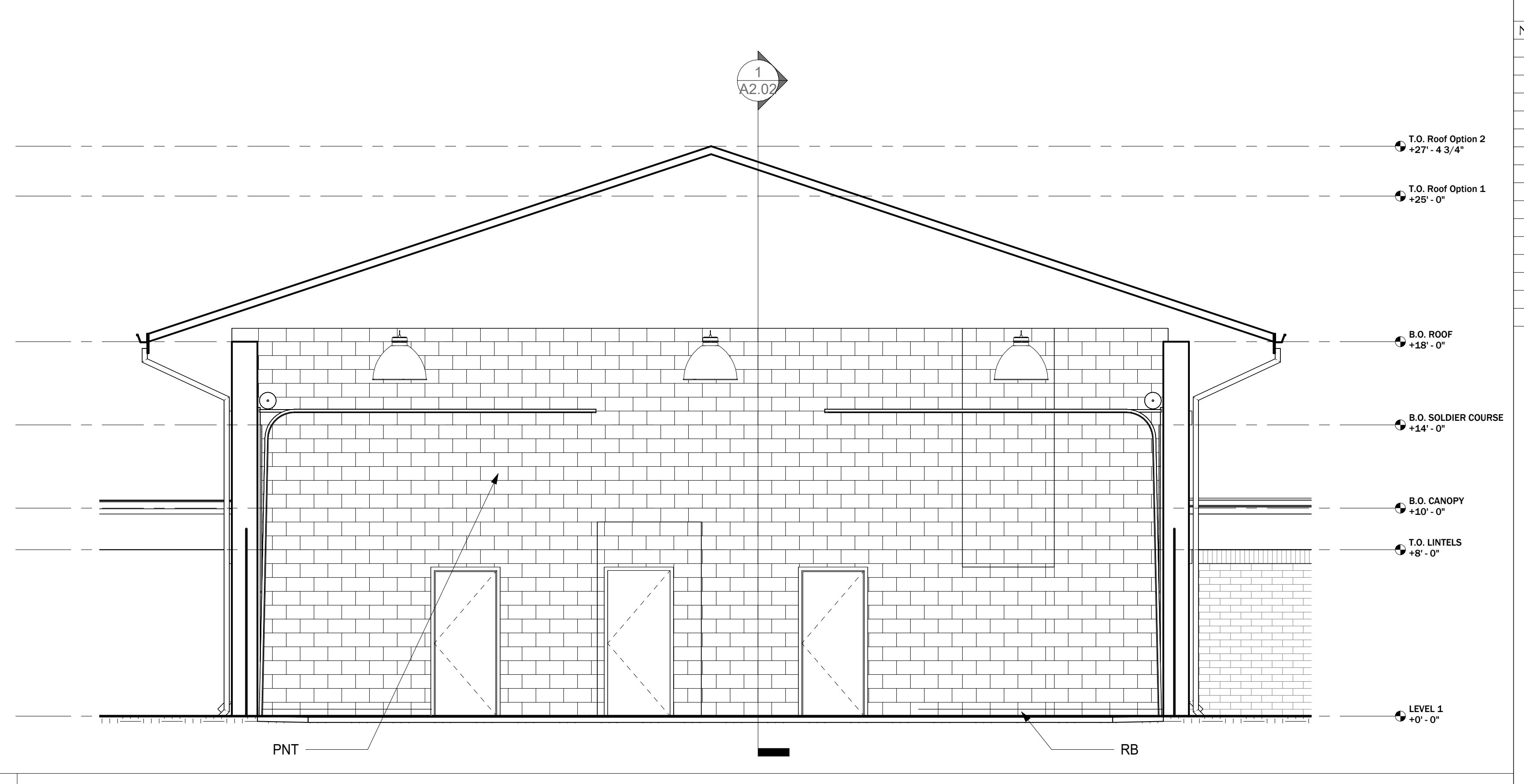
SHEET NO.
A6.01



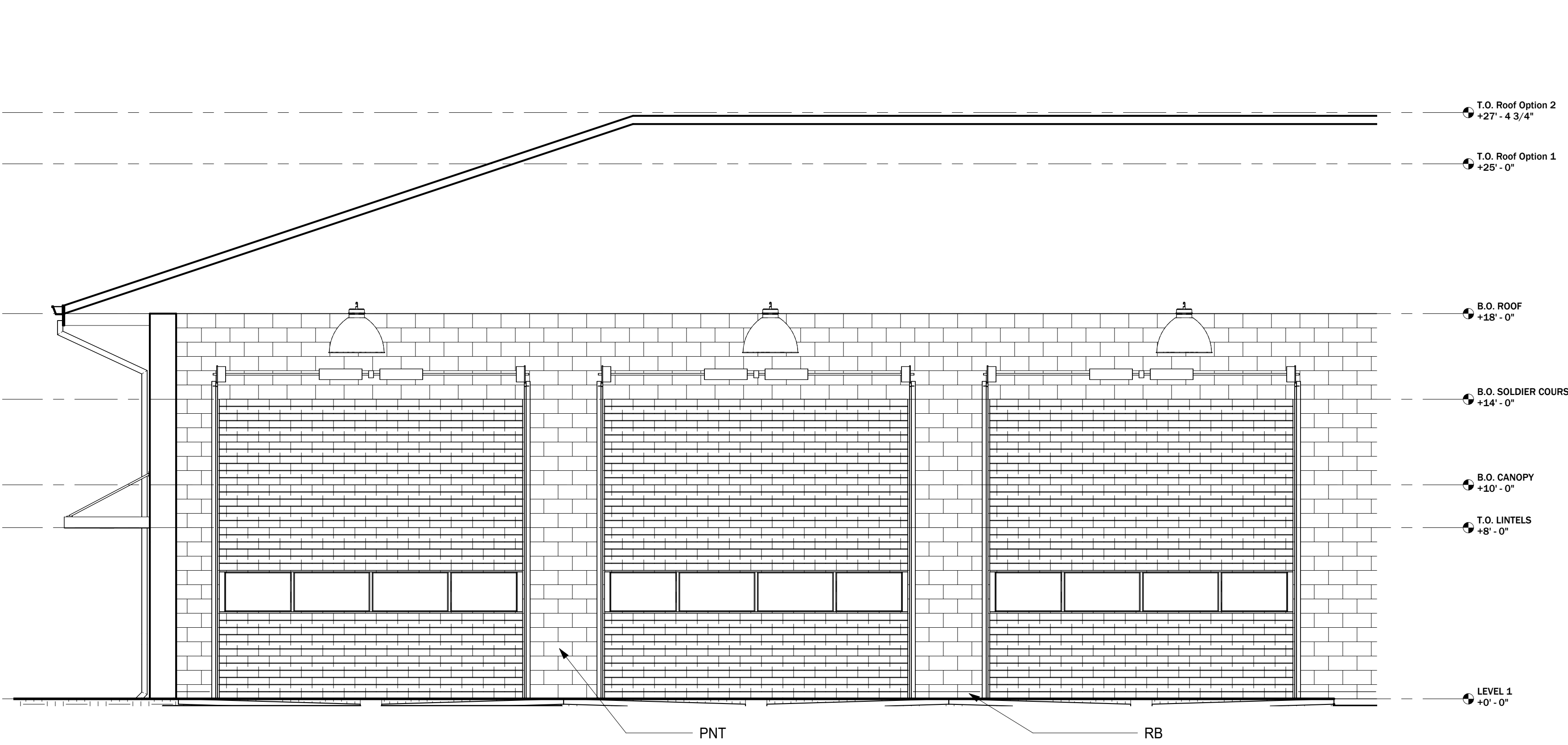
1 Elevation 1 - Jan 103 1/2" = 1'-0" 2 Elevation 2 - Jan 103 1/2" = 1'-0"



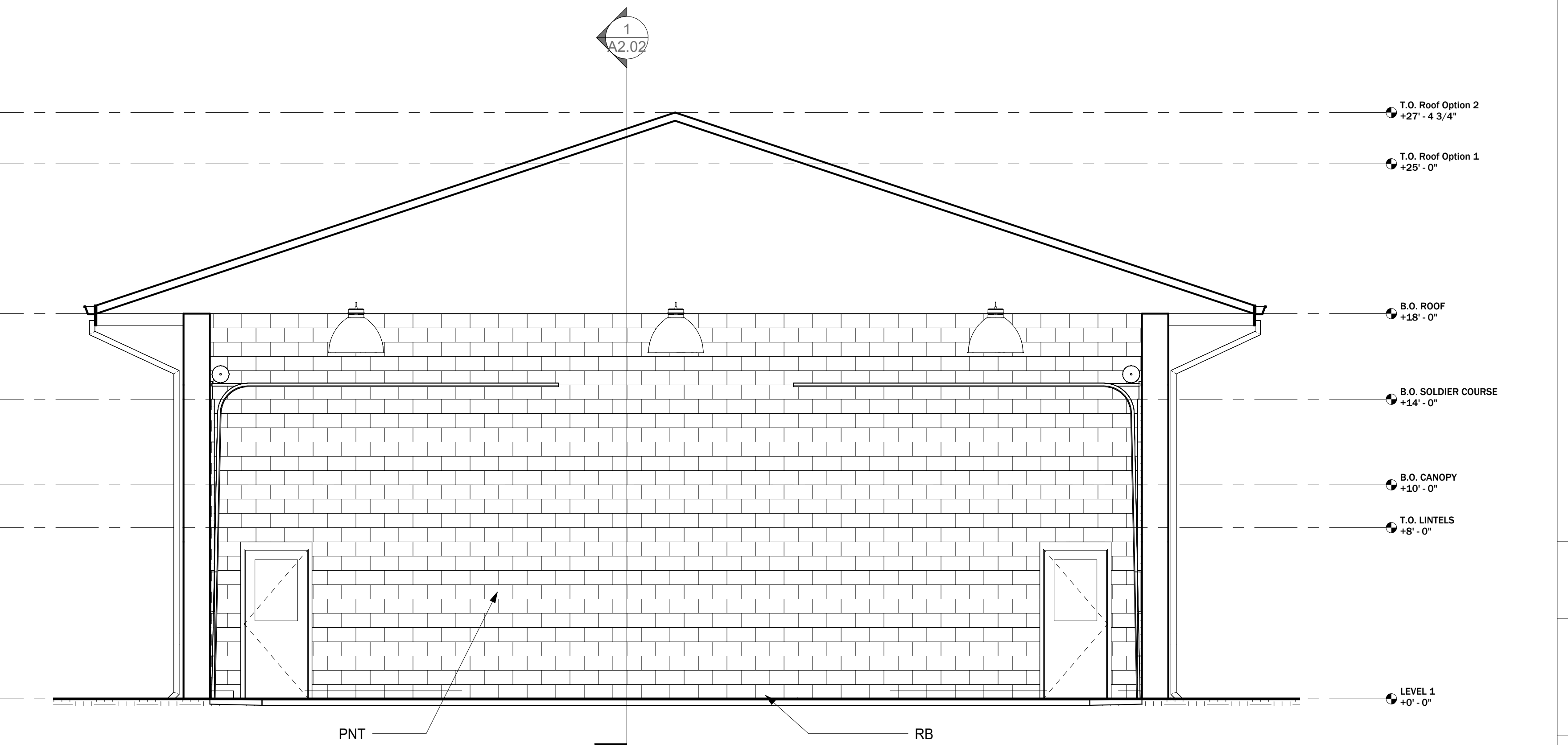
3 Apparatus Bay 123 1/4" = 1'-0"



4 Apparatus Bay 123 1/4" = 1'-0"



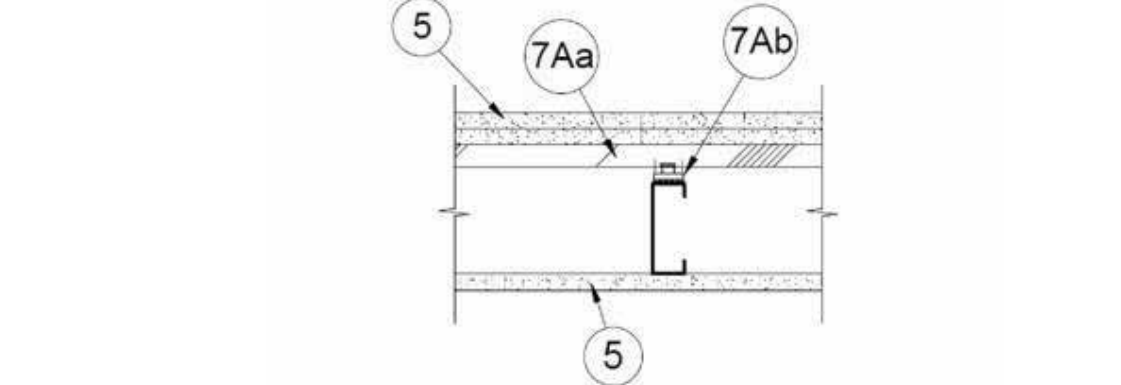
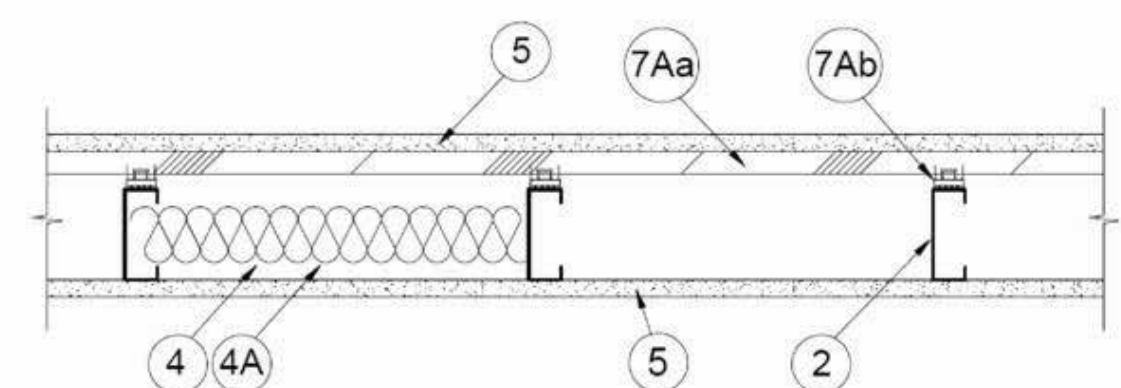
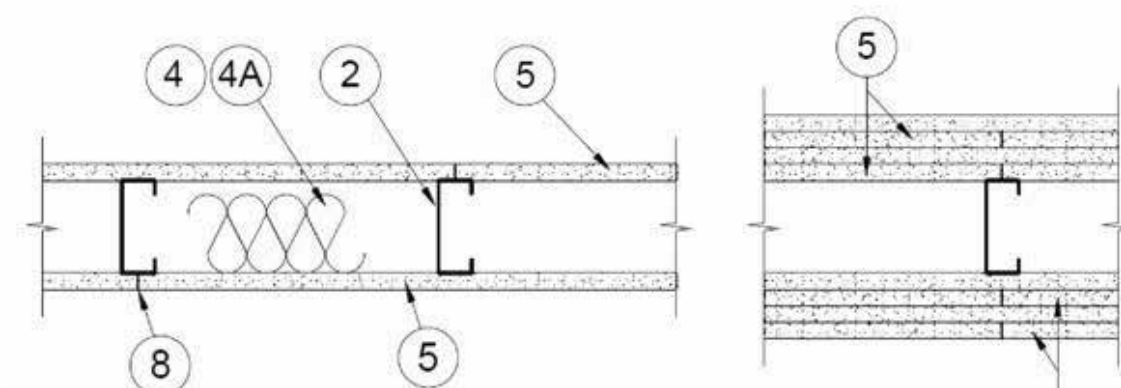
5 Apparatus Bay 123 1/4" = 1'-0"



6 Apparatus Bay 123 1/4" = 1'-0"

U.L. Design U419 August 16, 2023

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 4 & 5 through 5J). * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. Floor and Ceiling Runners — (Not Shown) — For use with Item 2 — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.

CRACO MFG INC — SmartTrack25™

18. Framing Members — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2C, proprietary channel shaped runners, minimum width to accommodate stud size, with 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.

IMPERIAL MANUFACTURING GROUP INC — Viper25™ Track

1C. Framing Members — Floor and Ceiling Runners — (Not Shown) — In lieu of Item 1 — Channel shaped, attached to floor and ceiling with fasteners 24 in. OC max.

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20

TELLING INDUSTRIES L L C — Type SUPREME D24/30EQD and Type SUPREME D20

1D. Floor and Ceiling Runners — (Not Shown) — For use with Item 2A — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced 24 in. OC max.

MBA METAL FRAMING — ProTRAK

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTRAK

1F. Framing Members — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2F, proprietary channel shaped runners, minimum width to accommodate stud size, with 1-1/8 in. long legs fabricated from min 0.015 in. (min bare metal thickness) galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

1G. Framing Members — Floor and Ceiling Runner — For use with Item 2G, proprietary channel shaped runners, minimum width to accommodate stud size, with 1-1/8 in. long legs, for use with studs specified below and attached from min 0.018 in. galv steel or thicker, attached to floor and ceiling with fasteners spaced 24 in. OC max.

1H. Framing Members — Floor and Ceiling Runners — (Not Shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and attached from min 0.018 in. galv steel or thicker, attached to floor and ceiling with fasteners spaced 24 in. OC max.

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track VT100

1I. Framing Members — Floor and Ceiling Runners — (Not Shown, As an alternate to Item 1) — For use with Items 2H, channel shaped, fabricated from min 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC max.

1J. Framing Members — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2J, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.

1K. Framing Members — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2J, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

1L. Framing Members — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2J, proprietary channel shaped runners, 1-1/4 in. wide by 3-1/2 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

1M. Framing Members — Floor and Ceiling Runners — (Not Shown) — As an alternate to Item 1 — For use with Item 2P, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

1N. Framing Members — Floor and Ceiling Runners — Not Shown — As an alternate to Item 1 — For use with Item 2P, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

1O. Framing Members — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2Q, proprietary channel shaped runners, min width to accommodate stud size, fabricated from min. 25 MSG (0.018 in. min. bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max.

2. Steel Studs — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

21. Framing Members — Steel Studs — (Not Shown, As an alternate to Item 2) — Fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

22. Framing Members — Steel Studs — (Not Shown, As an alternate to Item 2) — For use with Items 5F or 5G or 5I or Type ULX only, channel shaped studs, min depth as indicated under Item 5F, 5G or 5I, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

23. Framing Members — Steel Studs — (Not Shown, As an alternate to Item 2) — For use with Item 5L — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity, for up to 2 hour rated assemblies only. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with minimum 20 MSG steel thickness.

24. Foamed Plastic — (Where Batts and Blankets, Item 4, are optional, for use with Item 5L) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity, for up to 2 hour rated assemblies only. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with minimum 20 MSG steel thickness.

25. Framing Members — Steel Studs — (As an alternate to Item 2) — For use with Item 5M — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height.

CRACO MFG INC — SmartTrack25™

IMPERIAL MANUFACTURING GROUP INC — Viper25™

U.L. DESIGN U419, CONTD.

2C. Framing Members — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.

MARINOWARE, DIV OF WARE INDUSTRIES INC — Viper20™

IMPERIAL MANUFACTURING GROUP INC — Viper20™

2D. Framing Members — Steel Studs — In lieu of Item 2 — Channel shaped studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20

TELLING INDUSTRIES L L C — Type SUPREME D24/30EQD and Type SUPREME D20

2E. Framing Members — Steel Studs — (Not Shown, As an alternate to Item 2) — For use with Items 5F or 5G or 5I or Type ULX only, channel shaped studs, min depth as indicated under Item 5F, 5G or 5I, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

DMFCVBS L L C — ProSTUD

MBA METAL FRAMING — ProSTUD

2F. Framing Members — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, minimum width indicated under Item 5, 1-1/4 in. deep fabricated from min 0.015 in. (min bare metal thickness) galvanized steel. Studs 3/8 in. to 3/4 in. less in lengths than assembly heights.

2G. Framing Members — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped studs, minimum width indicated under Item 5, Studs to be cut 3/8 to 3/4 in less than assembly height.

2H. Framing Members — Steel Studs — (Not Shown, As an alternate to Item 2) — Fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

2I. Framing Members — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.

2J. Framing Members — Steel Studs — (As an alternate to Item 2) — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2K. Framing Members — Steel Studs — (As an alternate to Item 2) — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2L. Framing Members — Steel Studs — (As an alternate to Item 2) — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2M. Framing Members — Steel Studs — (As an alternate to Item 2) — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2N. Framing Members — Steel Studs — (As an alternate to Item 2) — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2O. Framing Members — Steel Studs — (As an alternate to Item 2) — proprietary channel shaped steel studs, min width as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 25 MSG (0.018 in. min. bare metal thickness). Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.

2P. Framing Members — Steel Studs — (As an alternate to Item 2) — proprietary channel shaped steel studs, min width as indicated under Item 5, 25 MSG (0.018 in. min. bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC max.

2Q. Framing Members — Steel Studs — (As an alternate to Item 2) — For use with Item 10, proprietary channel shaped steel studs, min width as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 25 MSG (0.018 in. min. bare metal thickness). Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.

2R. Framing Members — Steel Studs — (As an alternate to Item 2) — For use with Item 10, proprietary channel shaped steel studs, min width as indicated under Item 5, 25 MSG (0.018 in. min. bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC max.

2S. Framing Members — Steel Studs — Not Shown — In lieu of Item 2 — For use with Item 10, proprietary channel shaped steel studs, min width as indicated under Item 5, 25 MSG (0.018 in. min. bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC max.

2T. Framing Members — Steel Studs — (As an alternate to Item 2) — For use with Item 10, proprietary channel shaped steel studs, min width as indicated under Item 5, 25 MSG (0.018 in. min. bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC max.

2U. Framing Members — Steel Studs — (As an alternate to Item 2) — For use with Item 10, proprietary channel shaped steel studs, min width as indicated under Item 5, 25 MSG (0.018 in. min. bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC max.

2V. Framing Members — Steel Studs — (As an alternate to Item 2) — For use with Item 10, proprietary channel shaped steel studs, min width as indicated under Item 5, 25 MSG (0.018 in. min. bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC max.

2W. Framing Members — Steel Studs — (As an alternate to Item 2) — For use with Item 10, proprietary channel shaped steel studs, min width as indicated under Item 5, 25 MSG (0.018 in. min. bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC max.

2X. Framing Members — Steel Studs — (As an alternate to Item 2) — For use with Item 10, proprietary channel shaped steel studs, min width as indicated under Item 5, 25 MSG (0.018 in. min. bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC max.

2Y. Framing Members — Steel Studs — (As an alternate to Item 2) — For use with Item 10, proprietary channel shaped steel studs, min width as indicated under Item 5, 25 MSG (0.018 in. min. bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC max.

2Z. Framing Members — Steel Studs — (As an alternate to Item 2) — For use with Item 10, proprietary channel shaped steel studs, min width as indicated under Item 5, 25 MSG (0.018 in. min. bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC max.

3. Wood Structural Panel Sheathing — (Optional, For use with Item 5 Only) — (Not Shown) — 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 1/2 in. thick structural 1 sheathing (plywood) complying with DCC PS1 or PS2, or APA Standard PRP-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from wallboard joints. Attached to studs with flat-head self-drilling tapping screws with a min. head diam. of 0.292 in. at maximum 6 in. OC, in the perimeter and 12 in. OC, in the field. When used, gypsum panels attached over OSB or plywood panels and fastener lengths for gypsum panels increased by min. 1/2 in.

4. Batts and Blankets — (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 5. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

4B. Fiber, Sprayed — (Optional, for use with Type ULX) Where insulation is required - Spray applied granulated mineral fiber material. The fiber is applied with adhesive at a minimum density of 4.0 pcf to completely fill the wall cavity in accordance with the application instructions supplied with the product. See Fiber, Sprayed (CGAZ).

4C. Foamed Plastic — (Where Batts and Blankets, Item 4, are optional, for use with Item 5L) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity, for up to 2 hour rated assemblies only. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with minimum 20 MSG steel thickness.

4D. Foamed Plastic — (Where Batts and Blankets, Item 4, are optional, for use with Item 5L) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity, for up to 2 hour rated assemblies only. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with minimum 20 MSG steel thickness.

4E. Fiber, Sprayed — (Optional, for use with Type ULX) Where insulation is required - Spray applied granulated mineral fiber material. The fiber is applied with adhesive at a minimum density of 4.0 pcf to completely fill the wall cavity in accordance with the application instructions supplied with the product. See Fiber, Sprayed (CGAZ).

4F. Fiber, Sprayed — (Optional, for use with Type ULX) Where insulation is required - Spray applied granulated mineral fiber material. The fiber is applied with adhesive at a minimum density of 4.0 pcf to completely fill the wall cavity in accordance with the application instructions supplied with the product. See Fiber, Sprayed (CGAZ).

4G. Fiber, Sprayed — (Optional, for use with Type ULX) Where insulation is required - Spray applied granulated mineral fiber material. The fiber is applied with adhesive at a minimum density of 4.0 pcf to completely fill the wall cavity in accordance with the application instructions supplied with the product. See Fiber, Sprayed (CGAZ).

4H. Fiber, Sprayed — (Optional, for use with Type ULX) Where insulation is required - Spray applied granulated mineral fiber material. The fiber is applied with adhesive at a minimum density of 4.0 pcf to completely fill the wall cavity in accordance with the application instructions supplied with the product. See Fiber, Sprayed (CGAZ).

4I. Fiber, Sprayed — (Optional, for use with Type ULX) Where insulation is required - Spray applied granulated mineral fiber material. The fiber is applied with adhesive at a minimum density of 4.0 pcf to completely fill the wall cavity in accordance with the application instructions supplied with the product. See Fiber, Sprayed (CGAZ).

4J. Fiber, Sprayed — (Optional, for use with Type ULX) Where insulation is required - Spray applied granulated mineral fiber material. The fiber is applied with adhesive at a minimum density of 4.0 pcf to completely fill the wall cavity in accordance with the application instructions supplied with the product. See Fiber, Sprayed (CGAZ).

4K. Fiber, Sprayed — (Optional, for use with Type ULX) Where insulation is required - Spray applied granulated mineral fiber material. The fiber is applied with adhesive at a minimum density of 4.0 pcf to completely fill the wall cavity in accordance with the application instructions supplied with the product. See Fiber, Sprayed (CGAZ).

4L. Fiber, Sprayed — (Optional, for use with Type ULX) Where insulation is required - Spray applied granulated mineral fiber material. The fiber is applied with adhesive at a minimum density of 4.0 pcf to completely fill the wall cavity in accordance with the application instructions supplied with the product. See Fiber, Sprayed (CGAZ).

4M. Fiber, Sprayed — (Optional, for use with Type ULX) Where insulation is required - Spray applied granulated mineral fiber material. The fiber is applied with adhesive at a minimum density of 4.0 pcf to completely fill the wall cavity in accordance with the application instructions supplied with the product. See Fiber, Sprayed (CGAZ).

U.L. DESIGN U419, CONTD.

When Item 7B, Steel Framing Members*, is used, Nonbearing Wall Rating is limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 4) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 6. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item 6.

5A. Gypsum Board* — (As an alternate to Item 5) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 6. CGC INC — Type SHX.

UNITED STATES GYPSUM CO — Type FRX-G, SHX.

USG MEXICO S A DE C V — Type SHX.

5B. Gypsum Board* — (Not Shown) — (As an alternate to Item 5) when used as the base layer on one or both sides of wall when 5/8 in. or 3/4 in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) — Nom 5/8 in. or 3/4 in. may be used as alternate to 5/8 in. or 3/4 in. shown in Item 5. Wallboard Protection on Each Side of Wall Table, Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to 20 MSG steel studs Item 2A with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 11) or Lead Discs or Tabs (see Item 12).

5C. Gypsum Board* — (For Use With Item 2B) — Rating Limited to 1 Hour, 5/8 in. thick, 48 in. wide, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. (Vertical Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 4 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. Vertical joints are to be centered over studs and staggered one stud cavity on opposite sides of studs. (Horizontal Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. All horizontal joints are to be backed as outlined under section VI of Volume 1 in the Fire Resistive Directory.

5D. Gypsum Board* — (As an alternate to Item 5) — 5/8 in. thick, 48 in. wide, applied vertically or horizontally. Secured as described in Item 6. For use with Items 1 and 2 only. CGC INC — Type USGX.

UNITED STATES GYPSUM CO — Type USGX

USG BORAL DRYWALL SFZ LLC — Type USGX

USG MEXICO S A DE C V — Type USGX

5E. Gypsum Board* — (Not Shown) — (As an alternate to Item 5) when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3). Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or No. 6 by 1-1/4 in. long bugle head fine drill) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.

NEW ENGLAND LEAD BURNING CO INC, DBA NELCO — Nelco

5F. Gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour Rating only, Gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the steel studs with 1 in. long Type S screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC in the field. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Steel stud depth shall be a minimum 3-5/8 in.

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type SCX

UNITED STATES GYPSUM CO — Type SCX, SGX, ULX.

USG BORAL DRYWALL SFZ LLC — Type SCX

USG MEXICO S A DE C V — Type SCX

5D. Gypsum Board* — (As an alternate to Item 5) — 5/8 in. thick, 48 in. wide, applied vertically or horizontally. Secured as described in Item 6. For use with Items 1 and 2 only. CGC INC — Type USGX.

UNITED STATES GYPSUM CO — Type USGX

USG BORAL DRYWALL SFZ LLC — Type USGX

USG MEXICO S A DE C V — Type USGX

5E. Gypsum Board* — (Not Shown) — (As an alternate to Item 5) when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3). Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or No. 6 by 1-1/4 in. long bugle head fine drill) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.

NEW ENGLAND LEAD BURNING CO INC, DBA NELCO — Nelco

5F. Gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour Rating only, Gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the steel studs with 1 in. long Type S screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC in the field. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Steel stud depth shall be a minimum 3-5/8 in.

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type SCX

UNITED STATES GYPSUM CO — 5/8 in. thick Type SCX, SGX, ULX

USG BORAL DRYWALL SFZ LLC — 5/8 in. thick Type SCX, SGX

5G. Gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E only, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 6. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 2 hr, 3 hr and 4 hr ratings are as follows:

Table with 5 columns: Rating, Hr, Min Stud Depth, in. Item 2E, Gypsum Board Protection on Each Side of Wall (No. of Layers & Thickness of Panel), Min Thickness of Insulation (Item 4), and optional/required status.

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX or 3/4 in. thick Types IP-X3 or ULTRACODE

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — 1/2 in. thick Types C and 5/8 in. thick SCX

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or 5/8 in. thick Type SCX, SGX, SHX, IP-X1, AR, C, FRX-G, IP-AR, IP-X2, IPC-AR, ULX, 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C, 5/8 in. Types C, SCX, SGX, ULTRACODE

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or 3/4 in. thick Types IP-X3 or ULTRACODE

5H. Gypsum Board* — (Not Shown) — (As an alternate to Item 5) when used as the base layer on one or both sides of wall when 5/8 or 3/4 in thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) - Nom 5/8 or 3/4 in. may be used as alternate to 5/8 or 3/4 in. shown in Item 5. Wallboard Protection on Each Side of Wall Table, Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Gypsum board secured to 20 MSG steel studs Item 2B with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 11A) or Lead Discs (see Item 12A).

MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

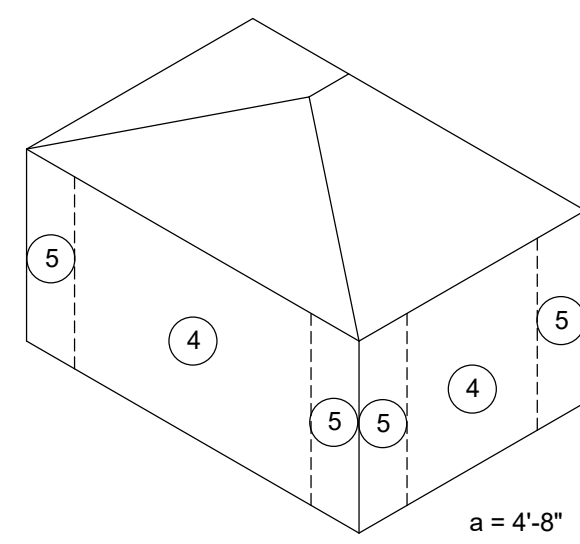
5I. Gypsum Board* — (As an alternate to Item 5) when used as the base layer on one or both sides of wall when 5/8 or 3/4 in thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) - Nom 5/8 or 3/4 in. may be used as alternate to 5/8 or 3/4 in. shown in Item 5. Wallboard Protection on Each Side of Wall Table, Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Gypsum board secured to 20 MSG steel studs Item 2B with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 11A) or Lead Discs (see Item 12A).

5J. Gypsum Board* — (As an alternate to Item 5) when used as the base layer on one or both sides of wall when 5/8 or 3/4 in thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) - Nom 5/8 or 3/4 in. may be used as alternate to 5/8 or 3/4 in. shown in Item 5. Wallboard Protection on Each Side of Wall Table, Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field

DESIGN CRITERIA

Table with 2 columns: Item description and Value. Includes Building Code, Risk Category, Design Dead Loads, Design Live Loads, Wind Loads, and Wind Walls.

WALLS



ROOFS

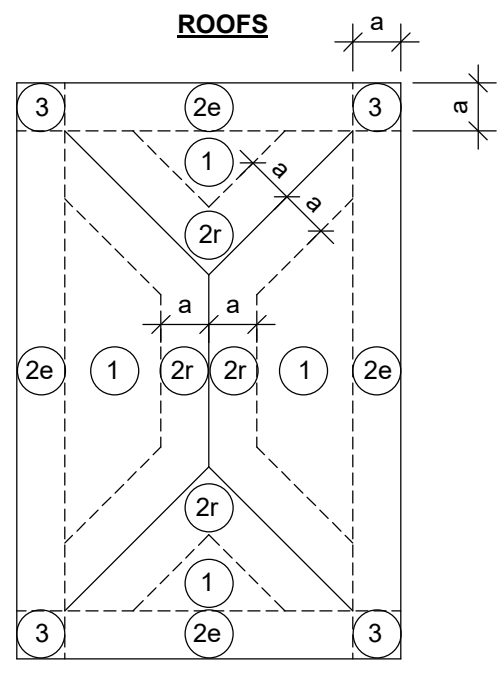


Table with 2 columns: Zone and Load values. Includes Roof Loads and Wind Walls.

WALLS

Table with 2 columns: Zone and Load values. Includes Wind Walls.

C & G WIND ZONES

REFERENCE ASCE 7 FOR EFFECTIVE WIND AREAS NOT LISTED OTHERWISE. USE THE SMALLEST APPLICABLE AREA.

Table with 2 columns: Item description and Value. Includes Earthquake Loads and Snow Loads.

SPECIAL INSPECTIONS

- List of special inspection requirements including building official approval, owner employment of inspectors, and duties of the special inspector.

DUTIES AND RESPONSIBILITIES OF THE CONTRACTOR

- List of contractor duties including observing work, providing inspection reports, and maintaining records.

QUALITY ASSURANCE

- List of quality assurance requirements including testing agency selection, failure of quality assurance, and record keeping.

DEFERRED SUBMITTALS

- List of deferred submittal items including pre-manufactured wood trusses, steel stairs, and cold-formed metal framing.

SUBMITTALS

- List of submittal requirements including schedule, materials, drawings, and reproductions.

MISCELLANEOUS

- List of miscellaneous requirements including general notes, structural drawings, openings, and construction methods.

FOUNDATIONS

- List of foundation requirements including design, footing placement, and concrete casting.

CONCRETE

- List of concrete requirements including code, strength, placement, and curing.

Table for concrete reinforcement lap length schedule with columns for bar size and reinforcement type.

- List of concrete reinforcement details including lap lengths, splicing, and anchorage.

MASONRY

- List of masonry requirements including code, strength, and construction details.

STRUCTURAL STEEL

- List of structural steel requirements including code, detailing, and connections.



HEARD COUNTY FIRE STATION #5

365 Joe Stephens Road Franklin, GA 30217

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RELEASED FOR CONSTRUCTION

Table with 2 columns: Revisions and Revisions. Includes a table for revision tracking.



Gardner Spencer Smith & Jarbeau logo and contact information.

Project address: Tower Place Building, 3340 Peachtree Road, N.E. Suite 1800, Atlanta, Georgia 30326.

PROJECT NO.

SHEET TITLE

GENERAL NOTES

SHEET NO.

S0.01

METAL STUDS AND JOISTS (COLD FORM FRAMING):

- CONTRACTOR SHALL SUBMIT THE FOLLOWING AS A COMPLETE PACKAGE, DELAYED SUBMITTAL:
 - SHOP DRAWINGS SEALED BY AN ENGINEER LICENSED IN THE PROJECT STATE INCLUDING LAYOUT PLANS, ELEVATIONS, AND SECTIONS
 - INCLUDE LAYOUT, SPACINGS, SIZES, THICKNESSES AND TYPES OF COLD-FORMED STEEL FRAMING, FABRICATION, AND FASTENING AND ANCHORAGE DETAILS, INCLUDING MECHANICAL FASTENERS.
 - INDICATE REINFORCING CHANNELS, OPENING FRAMING, SUPPLEMENTAL FRAMING, STRAPPING, BRACING, BRIDGING, SPLICES, ACCESSORIES, CONNECTION DETAILS, AND ATTACHMENT TO ADJOINING WORK.
 - CALCULATIONS SEALED BY AN ENGINEER LICENSED IN THE PROJECT STATE FOR REVIEW BY ENGINEER OF RECORD.
 - PRODUCT CATALOG WITH PROPERTIES OF ALL FRAMING AND ACCESSORIES.
- DESIGN, FABRICATION, AND ERECTION SHALL CONFORM TO LATEST ADDITION OF THE AISI NORTH AMERICAN SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS INCLUDING SUBSEQUENT SUPPLEMENTS. ALL METAL STUDS SHALL BE GALVANIZED.
- ALL STUDS, JOISTS, TRACK, BRIDGING, END CLOSURES AND ACCESSORIES SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE REQUIREMENTS OF AISI SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS UNLESS NOTED OTHERWISE.
- ALL PRODUCTS TO BE MANUFACTURED BY A CURRENT MEMBER OF THE STEEL MANUFACTURERS ASSOCIATION.
- CONTRACTOR SHALL FURNISH COMPLETE FABRICATION AND ERECTION DRAWINGS PREPARED BY AN ENGINEER LICENSED IN THE PROJECT STATE FOR APPROVAL BY THE STRUCTURAL ENGINEER PRIOR TO THE COMMENCEMENT OF FABRICATION. INCLUDE PLACING DRAWINGS FOR FRAMING MEMBERS SHOWING SIZE AND GAGE DESIGNATIONS, NUMBER, TYPE, LOCATION AND SPACING. INDICATE SUPPLEMENTAL TRAPPING, BRACES, SPLICES, BRIDGING, ACCESSORIES AND DETAILS REQUIRED FOR PROPER INSTALLATION.
- MEMBER SIZE, GAGE AND SPACING OF EXTERIOR WALL STUDS AND ALL MEMBERS CONNECTIONS SHALL BE DESIGNED BY A SPECIALTY ENGINEER. SUBMIT CALCULATIONS FOR MEMBERS AND CONNECTIONS WITH SHOP DRAWINGS (SIGNED AND STAMPED BY LICENSED STRUCTURAL ENGINEER IN THE STATE IN WHICH THE PROJECT WILL BE CONSTRUCTED) TO ENGINEER OF RECORD FOR REVIEW. SHOP DRAWINGS SHALL SHOW WALL SECTIONS COORDINATED WITH DRAWINGS SHOWING FRAMING, ACCESSORIES, ANCHORAGE AND CONNECTION DETAILS. REVIEW OF SHOP DRAWINGS SHALL BE FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS REGARDING ARRANGEMENT AND SIZES OF MEMBERS AND THE CONTRACTOR'S INTERPRETATION OF THE DESIGN LOADS AND CONTRACT DOCUMENT DETAILS. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR THE DESIGN OF THE COLD-FORMED STEEL STRUCTURAL MEMBERS AND THEIR CONNECTIONS.
- DELEGATED DESIGN: ENGAGE A QUALIFIED PROFESSIONAL ENGINEER TO DESIGN COLD-FORMED STEEL FRAMING CAPABLE OF WITHSTANDING DESIGN LOADS WITHIN LIMITS AND CONDITIONS INDICATED BELOW.
 - DESIGN LOADS: AS INDICATED ON DRAWINGS OR COMPUTED USING DESIGN CRITERIA PROVIDED.
 - DESIGN FRAMING SYSTEMS TO WITHSTAND DESIGN LOADS WITHOUT DEFLECTIONS GREATER THAN THE FOLLOWING:
 - EXTERIOR WALL FRAMING: HORIZONTAL DEFLECTION OF 1/240 OF THE WALL HEIGHT, 1/360 OF THE WALL HEIGHT FOR SIMULATED STONE WALLS OR STUCCO FINISHES, 1/600 FOR BRICK OR STONE VENEER WALLS.
 - INTERIOR WALL FRAMING: HORIZONTAL DEFLECTION OF 1/240 OF THE WALL HEIGHT UNDER A HORIZONTAL LOAD OF 5 LBF/SQ. FT.
 - ROOF RAFTER FRAMING: VERTICAL DEFLECTION OF 1/360 OF THE HORIZONTALLY PROJECTED SPAN FOR LIVE LOADS AND 1/240 FOR TOTAL LOADS OF THE SPAN.
 - CEILING JOIST FRAMING: VERTICAL DEFLECTION OF 1/360 OF THE SPAN FOR LIVE LOADS AND 1/240 FOR TOTAL LOADS OF THE SPAN.
- DESIGN WALL FRAMING TO ACCOMMODATE HORIZONTAL DEFLECTION WITHOUT REGARD FOR CONTRIBUTION OF SHEATHING MATERIALS. FOR STRENGTH CALCULATIONS, WALLS SHALL BE DESIGNED AS BRACED AT THE STRAP SPACING (OR UNBRACED IF NO STRAPS ARE DESIGNATED) IF FULL-HEIGHT STRUCTURAL SHEATHING IS NOT INSTALLED ON BOTH SIDES OF STUDS. STRUCTURAL SHEATHING IS LIMITED TO PLYWOOD AND OSB. SHEATHING, BRIDGING, AND BRACING SHALL BE INSTALLED PRIOR TO VERTICAL LOAD OF LOAD BEARING WALLS.
- DESIGN FRAMING SYSTEMS TO PROVIDE FOR MOVEMENT OF FRAMING MEMBERS LOCATED OUTSIDE THE INSULATED BUILDING ENVELOPE WITHOUT DAMAGE OR OVERSTRESSING, SHEATHING FAILURE, CONNECTION FAILURE, UNDUE STRAIN ON FASTENERS AND ANCHORS, OR OTHER DETRIMENTAL EFFECTS WHEN SUBJECT TO A MAXIMUM AMBIENT TEMPERATURE CHANGE OF 120 DEG F (67 DEG C).
- PROVIDE TEMPORARY SHORES, GUYS, BRACES, AND OTHER SUPPORTS DURING ERECTION TO KEEP STRUCTURAL FRAMING SECURE, PLUMB, AND IN ALIGNMENT AGAINST TEMPORARY CONSTRUCTION LOADS EQUAL IN INTENSITY TO DESIGN LOADS. REMOVE TEMPORARY SUPPORTS WHEN PERMANENT STRUCTURAL FRAMING CONNECTIONS AND BRACING ARE IN PLACE, UNLESS OTHERWISE INDICATED.
- DESIGN FRAMING SYSTEM TO MAINTAIN CLEARANCES AT OPENINGS, TO ALLOW FOR CONSTRUCTION TOLERANCES, AND TO ACCOMMODATE LIVE LOAD DEFLECTION OF PRIMARY BRACING STRUCTURE AS FOLLOWS (INCLUDES SLIP TRACKS, SLIP CLIPS, & BYPASS CLIPS).
 - UPWARD AND DOWNWARD MOVEMENT EQUALS 1/240 TIMES THE SPAN OF THE UPPER BOUND PRIMARY STRUCTURAL ELEMENT (BEAM).
- MINIMUM MEMBER SIZES ARE AS FOLLOWS:

MEMBER	FLANGE	THICKNESS (MILS)
S (STUD)	162	33
T (TRACK)	200	33
- MINIMUM YIELD STRENGTH (Fy) OF ALL SECTIONS 20 TO 18 GAUGE (33 TO 43 MILS) SHALL BE 33 KSI. MINIMUM YIELD STRENGTH (Fy) OF ALL SECTIONS 16 TO 12 GAUGE (54 TO 97 MILS) SHALL BE 50 KSI.
- ALL STUDS BACKING MASONRY OR STONE VENEER SHALL BE 43 MILS MIN.
- THE QUANTITY OF STUDS OR JOISTS PLACED ON EACH SIDE OF OPENINGS SHALL BE DESIGNATED BY THE SPECIALTY ENGINEER. (2) STUDS MIN. EACH SIDE OF OPENING.
- SELF-DRILLING TAPPING SCREW FASTENERS SHALL BE IN COMPLIANCE WITH ASTM C1513 OR AN APPROVED DESIGN OR RECOGNIZED DESIGN STANDARD. ALL SCREWS SHALL BE NON-CORROSIVE NO. 12-14 STANDARD SELF-DRILLING SCREWS UNLESS NOTED OTHERWISE ON DRAWINGS (DO NOT USE STAINLESS STEEL OR COPPER COATED FASTENERS).
- ALL POWDER ACTUATED FASTENERS (PAF) SHALL BE 0.157" MIN. DIAMETER POWDER ACTUATED FASTENERS. LIMIT EMBED IN POST-TENSIONED SLABS TO BE 3/4" MAX.
- ALL SCREWS SHALL BE SPACED NO CLOSER THAN 1" ON CENTER UNLESS NOTED OTHERWISE ON DRAWINGS. MIN. EDGE DISTANCE FOR SCREWS SHALL BE 1".
- TRACKS SHALL BE CONNECTED TO SUPPORTS WITH TWO SCREWS OR PINS AT 16" O.C. MAX. STUDS OR JOISTS SHALL BE CONNECTED TO TRACKS AT EACH SIDE.
- ALL BRIDGING MUST BE CONTINUOUS FOR FULL LENGTH OF WALL OR PROPERLY SPLICED WITH AN APPROVED SPLICE ELEMENT.
- ALL WELDING TO BE PERFORMED BY A QUALIFIED WIRE FEE WELDER PER ASTM A-108. FIELD WELDING SHALL BE DONE WITH E60 ELECTRODES. WELDING SHALL CONFORM TO AMERICAN WELDING SOCIETY STANDARD D1.3, LATEST EDITION. DO NOT WELD SHAPES LESS THAN 8 MILS (14 GAUGE).
- APPLY ZINC COATING TO ALL WELDS.
- PROVIDE FULL DEPTH BLOCKING OR OTHER MEANS OF RESTRAINT AT JOIST BEARING SUPPORTS.
- PURLINS SHALL BE COLD-FORMED "Z" SECTIONS WITH STIFFENED FLANGES. FLANGE STIFFENERS SHALL BE SIZED TO COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF AISI AND LGSJ. THEY SHALL BE PRE-PUNCHED AT THE FACTORY TO PROVIDE FOR FIELD BOLTING. THEY SHALL BE SIMPLE OR CONTINUOUS SPAN AS SHOWN. CONNECTION BOLTS WILL INSTALL THROUGH THE PURLIN WEBS, NOT PURLIN FLANGES.
- EAVE STRUTS SHALL BE UNEQUAL FLANGE, COLD-FORMED "C" SECTIONS.
- SHOP-FABRICATE ALL FRAMING MEMBERS FOR FIELD BOLT ASSEMBLY. THE SURFACES OF THE BOLTED CONNECTIONS MUST BE SMOOTH AND FREE FROM BURRS OR DISTORTIONS.
- THE ERECTION OF THE BUILDING SYSTEM SHALL BE GUIDED BY A QUALIFIED ERECTOR. IN ACCORDANCE WITH THE APPROPRIATE ERECTION DRAWINGS, ERECTION GUIDES AND/OR OTHER DOCUMENTS FURNISHED BY MANUFACTURER, USING PROPER TOOLS, EQUIPMENT AND SAFETY PRACTICES.

POST-INSTALLED ANCHORS:

- POST-INSTALLED ANCHORS SHALL ONLY BE INSTALLED WHERE SPECIFIED ON THE CONTRACT DRAWINGS. POST-INSTALLED ANCHORS SHALL NOT BE USED FOR MISSING OR MIS-PLACED CAST-IN-PLACE ANCHORS WITHOUT PERMISSION FROM THE ENGINEER OF RECORD.
 - TESTING, SCANNING, AND LOCATING OF EXISTING REINFORCEMENT IS REQUIRED PRIOR TO INSTALLATION OF POST-INSTALLED ANCHORS TO AVOID INTERFERENCE AND/OR DAMAGE TO IN-PLACE REINFORCEMENT.
 - SUBSTITUTION REQUESTS FOR SPECIFIED POST-INSTALLED ANCHORS SHALL BE ACCOMPANIED BY ADEQUATE CALCULATIONS BY AN ENGINEER LICENSED IN THE PROJECT STATE THAT THE REQUESTED ANCHOR MEETS OR EXCEEDS THAT OF WHAT IS SPECIFIED.
 - MECHANICAL ANCHORS SHALL BE TESTED AND ASSESSED IN ACCORDANCE WITH THE MOST RECENT EDITION OF ACI 308.2 QUALIFICATION OF POST-INSTALLED MECHANICAL ANCHORS IN CONCRETE AND COMMENTARY.
 - ADHESIVE ANCHOR SYSTEMS SHALL BE TESTED AND ASSESSED IN ACCORDANCE WITH THE MOST RECENT EDITION OF ACI 308.4 QUALIFICATION OF POST-INSTALLED ADHESIVE ANCHORS IN CONCRETE (308.4) AND COMMENTARY. BULK-MIXED (E.G. G, BUCKET-MIXED) ADHESIVES ARE NOT PERMITTED.
 - CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 2,500 PSI AT THE TIME OF ADHESIVE ANCHOR INSTALLATION.
 - CONCRETE AT TIME OF ADHESIVE ANCHOR INSTALLATION SHALL HAVE A MINIMUM AGE OF 21 DAYS. FOR INSTALLATION OF ADHESIVE ANCHORS IN CONCRETE HAVING AN AGE LESS THAN 21 DAYS, TESTS SHALL BE CONDUCTED TO VERIFY THE PERFORMANCE OF THE PRODUCT IN ACCORDANCE WITH ACI 308.4.
 - THE CONCRETE TEMPERATURE AT THE TIME OF ADHESIVE ANCHOR INSTALLATION SHALL BE AT LEAST 50°F UNLESS TESTING HAS BEEN CONDUCTED IN ACCORDANCE WITH RECOGNIZED CRITERIA TO VERIFY PERFORMANCE IN CONCRETE AT LOWER TEMPERATURES.
 - 2.1.2.1 Structural Steel Construction
 - Fabricator and erector documents (Verify reports and certificates as listed to AISC 360, Section N 3.2 for compliance with construction documents)
 - Welded joints subject to fatigue when required by AISC 360, Appendix 3, Table A5-1
 2. Material verification of structural steel
 - Structural steel welding:
 - Inspection tasks Prior to Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-1)
 - Inspection tasks During Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-2)
 - Inspection tasks After Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-3)
 - Nondestructive testing (NDT) of welded joints: see Commentary
 - Complete penetration groove welds 5/16" or greater in risk category III or IV
 - Complete penetration groove welds 5/16" or greater in risk category II
 - Fabricator's NDT reports when fabricator performs NDT
 - Structural steel bolting:
 - Inspection tasks Prior to Bolting (Observe, or perform tasks for each bolted connection, in accordance with QA tasks listed in AISC 360, Table N5.6-1)
 - Inspection tasks During Bolting (Observe the QA tasks listed in AISC 360, Table N5.6-2)
 - Inspection tasks During Bolting (Observe the QA tasks listed in AISC 360, Table N5.6-2)
 - Pre-tensioning and slip-critical joints
 - Turn-of-nut with matching markings
 - Direct tension indicator
 - Twist-off type tension control bolt
 - Turn-of-nut without matching markings
 - Calibrated wrench
 - Snug-tight joints
 - Visual inspection of exposed cut surfaces of galvanized structural steel main members and exposed corners of the rectangular HSS for cracks subsequent to galvanizing
 - Embedments (Verify diameter, grade, type, length, embedment. See 1705.3 for anchors)
 - Verify member locations, braces, stiffeners, and application of joint details at each connection comply with construction documents
 - 1705.3 Concrete Construction
 - Inspection and placement verification of reinforcing steel and prestressing tendons
 - Reinforcing bar welding:
 - Verification of weldability of bars other than ASTM A706
 - Inspection of single-pass fillet welds 5/16" or less in size
 - Inspection of all other welds.
 - Inspection of anchors cast in concrete.
 - Inspection of anchors post-installed in hardened concrete members per research reports, or, if no specific requirements are provided, requirements shall be provided by the registered design professional and approved by the building official, including verification of anchor type, anchor dimensions, hole dimensions, hole cleaning procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment and tightening torque
 - Adhesive anchors installed in horizontal or upward-inclined orientation that resist sustained tension loads
 - Mechanical and adhesive anchors note defined in 4a.
 - Verify use of approved design mix
 - Prior to placement, fresh concrete sampling, perform slump and air content tests and determine temperature of concrete and perform any other tests as specified in construction documents.
 - Inspection of concrete and scheduled placement for proper application techniques
 - Verify maintenance of specified curing temperature and techniques
 - Inspection of prestressed concrete:
 - Application of prestressing force
 - Grouting of bonded prestressing tendons
 - Inspect erection of precast concrete members
 - Verification of in-situ concrete strength, prior to stressing of tendons in post tensioned concrete and prior to removal of shores and forms from beams and structural slabs
 - Inspection of formwork for shape, lines, location and dimensions
 - Concrete strength testing and verification of compliance with construction documents
 - 1705.4 Masonry Construction
 - Level 1, 2 and 3 Quality Assurance:
 - Prior to construction, verification of compliance of submittals
 - Level 2 & 3 Quality Assurance:
 - Prior to construction verification of f'm and FAAC except where specifically required by the code
 - During construction, verification of Slump Flow and Visual Stability Index (VSI) when prism test method
 - Testing by unit strength method or prism test method
 - Level 3 Quality Assurance:
 - Testing by unit strength method or prism test method
 - Testing by unit strength method or prism test method
 - During construction, verification of f'm and FAAC for every 5,000 SF
 - During construction, verification of proportions of materials as delivered to the project site for premixed or preblended mortar, prestressing grout, and grout other than self-consolidating grout. (D) Levels 2 and 3 Quality Assurance.
 - As masonry construction begins, verify that the following are in compliance:
 - Materials and procedures with the approved submittals
 - Placement of masonry units and mortar joint construction
 - Size and location of structural members
 - Type, size, location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction
 - Welding of reinforcement
 - Preparation, construction, and protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F)
 - Application and measurement of prestressing force
 - Placement of grout and prestressing grout for bonded tendons is in compliance
 - Placement of AAC masonry units and construction of thin-bed mortar joints
 - Observation preparation of grout specimens, mortar specimens, and/or prisms
- 1705.5 Wood Construction
 - For prefabricated wood structural elements, inspection of the fabrication process and assemblies in accordance with Section 1704.2.5.
 - Prior to construction, verification of compliance of submittals
 - For high-load diaphragms, verify grade and thickness of structural panel sheathing agree with approved building plans.
 - For high-load diaphragms, verify nominal size of framing members at adjoining panel edges, nail or staple diameter and length, number of fastener lines, and that spacing between fasteners in each line and at edge margins agree with approved building plans
 - Metal-plate-connected wood trusses:
 - Verification that permanent individual truss member restraint/bracing has been installed in accordance with the approved truss submittal package when the truss height is greater than or equal to 60".
 - For trusses spanning 60 feet or greater: verify temporary and permanent restraint/bracing are installed in accordance with the approved truss submittal package
 - Soils
 - Verify materials below shallow foundations are adequate to achieve the design bearing capacity.
 - Verify excavations are extended to proper depth and have reached proper material.
 - Perform classification and testing of compacted fill materials.
 - Verify use of proper materials, densities, and lift thicknesses during placement and compaction of controlled fill
 - Prior to placement of controlled fill, inspect subgrade and verify that site has been prepared properly
 - 1705.11.1 Structural Wood Special Inspections For Wind Resistance
 - Inspection of field gluing operations of elements of the main windforce-resisting system
 - Inspection of nailing, bolting, anchoring and other fastening of components within the main windforce-resisting system, including wood shear walls, wood diaphragms, drag studs, braces and hold-downs.
 - 1705.11.2 Cold-formed Steel Special Inspections For Wind Resistance
 - Inspection during welding operations of elements of the main windforce-resisting system
 - Inspection of screw attachment, bolting, anchoring and other fastening of components within the main windforce-resisting system, including shear walls, braces, diaphragms, collectors (drag studs) and hold-downs.
 - Roof covering, roof deck and roof framing connections.
 - Roof covering and wall connections to roof and floor diaphragms.
 - 1705.12.1 Structural Steel Special Inspections for Seismic Resistance
 - Seismic force-resisting systems in SDC B, C, D, E, or F.
 - Structural steel elements in SDC B, C, D, E, or F other than those in Item 1, including studs, collectors, chords and foundation elements.
- 1705.2.1.3 Wind-resisting Components
 - Roof covering, roof deck and roof framing connections.
 - Roof covering and wall connections to roof and floor diaphragms.

TIMBER:

- CODES: STRUCTURAL WOOD IS TO BE DESIGNED, DETAILED, FABRICATED AND CONSTRUCTED IN ACCORDANCE WITH THE LATEST ADDITIONS OF:
 - "NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION" (ANSI/AWC NDS) BY AMERICAN WOOD COUNCIL.
 - PRODUCT STANDARD PS 20 "AMERICAN SOFTWOOD LUMBER STANDARD" BY ALS-C.
 - PLYWOOD CONFORMING TO APA-THE ENGINEERED WOOD ASSOCIATION.
 - METAL PLATE-CONNECTED WOOD TRUSS DESIGN CONFORMING TO "DESIGN SPECIFICATIONS FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES" BY TRUSS PLATE INSTITUTE (TPI) AND TPI QUALITY CONTROL MANUAL.
- ALL TIMBER SHALL BE #2 SOUTHERN YELLOW PINE (MOISTURE CONTENT 19% MAX.) OR EQUAL UNLESS NOTED OTHERWISE.
- ALL WOOD TO WOOD CONNECTIONS SHALL EMPLOY PRE-FABRICATED METAL ANCHORS. TOE OR END NAILING OF WOOD SHALL NOT BE PERMITTED UNLESS NOTED OTHERWISE. METAL ANCHORS SHALL BE MANUFACTURED BY SEMPSON STRONG-TIE COMPANY OR EQUAL.
- TRUSS MEMBERS AND CONNECTOR PLATES SHALL BE DESIGNED IN ACCORDANCE WITH TRUSS PLATE INSTITUTE SPECIFICATIONS FOR THE LOADING STATED BELOW. CONNECTOR PLATES WITHIN 1 INCH OF EDGE OR END OF MEMBER AT ANY JOINT SHALL NOT BE CONSIDERED IN DEVELOPING STRESS.
- ERECTION BRACING SHALL BE INSTALLED AS NECESSARY TO HOLD THE TRUSSES TRUE AND PLUMB AND IN SAFE CONDITION UNTIL PERMANENT BRACING AND BRIDGING CAN BE INSTALLED. ALL ERECTION AND PERMANENT BRACING SHALL BE INSTALLED AND ALL COMPONENTS PERMANENTLY FASTENED BEFORE THE APPLICATION OF ANY LOADS TO THE TRUSSES. ALL TEMPORARY BRACING LOCATIONS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW ON SHOP DRAWINGS SUBMITTALS. ALL PREFABRICATED WOOD TRUSSES ARE TO BE INSTALLED IN ACCORDANCE WITH BRACING WOOD TRUSSES COMMENTARY (BWT-76) OR HFT-80, AS PUBLISHED BY THE TRUSS PLATE INSTITUTE.
- PRE-ENGINEERED METAL PLATE CONNECTED WOOD TRUSSES SHALL BE BRACED IN ACCORDANCE WITH THE LATEST ADDITION OF THE TRUSS PLATE INSTITUTE'S "BUILDING COMPONENT SAFETY INFORMATION BOOKLET" AND RELATED SUMMARY SHEETS.
- DESIGN OF TIMBER TRUSSES SHALL BE PERFORMED BY A STRUCTURAL ENGINEER LICENSED IN THE PROJECT STATE. STAMPED SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO FABRICATION. SHOP DRAWINGS SHALL BE SEALED BY THE DESIGN ENGINEER.
- ALL TRUSS TO TRUSS CONNECTIONS SHALL BE DESIGNED BY THE TRUSS DESIGN ENGINEER. TRUSS DESIGN ENGINEER SHALL SPECIFY ALL HARDWARE REQUIRED FOR THE CONNECTIONS.
- ROOF DECK SHALL BE 5/8" PLYWOOD MIN. ATTACHED TO SUPPORTING MEMBERS WITH 10d NAILS AT 6" ON CENTER UNLESS NOTED OTHERWISE.
- WOOD EMBEDDED OR PLACED ON CONCRETE IN DIRECT CONTACT WITH EARTH SHALL BE PRESSURE TREATED INCLUDING BUT NOT LIMITED TO POSTS, COLUMN SLEEPERS, SILLS AND SOLE PLATES.
- ALL PRE-ENGINEERED WOOD TRUSSES SHALL BE BRACED IN ACCORDANCE WITH TRUSS PLATE INSTITUTE'S "HANDLING, INSTALLING AND BRACING METAL PLATE CONNECTED WOOD TRUSSES, HIB-91"
- ALL PRE-ENGINEERED WOOD TRUSS SHOP DRAWINGS SHALL BE AVAILABLE ON THE JOB SITE DURING THE TIMES OF INSPECTION AND SHALL BEAR CLEAR INDICATION THAT THEY HAVE BEEN REVIEWED AND APPROVED BY THE PROJECT STRUCTURAL ENGINEER-OF-RECORD.
- BOLTS:
 - BOLTS FOR WOOD CONSTRUCTION SHALL BE ASTM A-307.
 - BOLT HOLES IN WOOD SHALL BE A MINIMUM OF 1/32" TO A MAXIMUM OF 1/16" LARGER THAN THE BOLT DIAMETER.
 - A METAL PLATE, METAL STRAP, OR WASHER NOT LESS THAN A STANDARD CUT WASHER (1/8" THICK MIN.) SHALL BE BETWEEN THE WOOD AND THE BOLT HEAD AND BETWEEN THE BOLT HEAD AND THE WOOD.
 - THE THREADED PORTION OF BOLTS SUBJECT TO WOOD BEARING SHALL BE KEPT TO A PRACTICAL MINIMUM.
 - IN HEAVY TIMBER MEMBERS, THE BOLTS AND WASHERS SHALL BE COUNTER SUNK 3/4" MAX. IN THE MEMBER TO ALLOW FOR A WOOD PEG COVER.
- PREDRILL HOLES FOR LAG BOLTS AS FOLLOWS:
 - CLEARANCE HOLE FOR LENGTH OF UNTHREADED SHANK: NOMINAL DIAMETER + 1/16"
 - PREDRILL HOLES FOR THREADED PORTION: NOMINAL DIAMETER + 1/16"
- ALL NAILS, BOLTS, SCREWS, AND LAG SCREWS SHALL BE HOT-DIP GALVANIZED OR STAINLESS STEEL. WOOD CONNECTOR HARDWARE SHALL BE HOT-DIP GALVANIZED. Z-MAX GALVANIZED OR TYPE 316 STAINLESS STEEL ALL GALVANIZED FASTENERS SHALL BE USED WITH GALVANIZED HARDWARE AND STAINLESS STEEL FASTENERS SHALL BE USED WITH STAINLESS STEEL HARDWARE.

SCHEDULE OF SPECIAL INSPECTIONS SERVICES					
MATERIAL / ACTIVITY	SERVICE	Y/N	EXTENT	AGENT	DATE COMPLETED
1705.1.1 Special Cases					
1. Inspection of anchors post-installed in solid grouted masonry: Per research reports including verification of anchor type, anchor dimensions, hole dimensions, hole cleaning procedures, anchor spacing, edge distances, masonry unit, grout, masonry compressive strength, anchor embedment and tightening torque	Field inspection	Y		Periodic or as required by the research report issued by an approved source	
2. Aggregate Pier Inspection: The special inspector's responsibilities include, but are not limited to, review of the aggregate pier designer's use of soil parameters as presented in the project scale report, and during construction, verification of aggregate properties, type and number of lifts of aggregate, hole size and depths and top elevations of the pier elements, and applied energy. Additionally, results of qualitative tests on production aggregate pier elements such as modulus load testing, uplift pull-out testing, bottom stabilization tests and dynamic cone penetration tests, shall be reviewed to verify compliance with design specifications.	Field inspection	N		Periodic or as required by the research report issued by an approved source	
1705.2.1 Structural Steel Construction					
1. Fabricator and erector documents (Verify reports and certificates as listed to AISC 360, Section N 3.2 for compliance with construction documents)	Submittal Review	Y	Each submittal		
2. Welded joints subject to fatigue when required by AISC 360, Appendix 3, Table A5-1	Shop (3) or field radiographic or Ultrasonic testing	Y	Periodic		
2. Material verification of structural steel	Shop (3) and field inspection	Y	Periodic		
3. Structural steel welding:					
a. Inspection tasks Prior to Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-1)	Shop (3) and field inspection	Y	Observe or Perform as noted (4)		
b. Inspection tasks During Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-2)	Shop (3) and field inspection	Y	Observe (4)		
c. Inspection tasks After Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-3)	Shop (3) and field inspection	Y	Observe or Perform as noted (4)		
d. Nondestructive testing (NDT) of welded joints: see Commentary					
1) Complete penetration groove welds 5/16" or greater in risk category III or IV	Shop (3) or field ultrasonic testing - 100%	N	Periodic		
2) Complete penetration groove welds 5/16" or greater in risk category II	Shop (3) or field ultrasonic testing - 10% of welds minimum	Y	Periodic		
4) Fabricator's NDT reports when fabricator performs NDT	Verify reports	Y	Each submittal (5)		
4. Structural steel bolting:	Shop (3) and field inspection	Y	Each submittal (5)		
a. Inspection tasks Prior to Bolting (Observe, or perform tasks for each bolted connection, in accordance with QA tasks listed in AISC 360, Table N5.6-1)	Shop (3) and field inspection	Y	Observe or Perform as noted (4)		
b. Inspection tasks During Bolting (Observe the QA tasks listed in AISC 360, Table N5.6-2)	Shop (3) and field inspection	Y	Observe (4)		
b. Inspection tasks During Bolting (Observe the QA tasks listed in AISC 360, Table N5.6-2)	Shop (3) and field inspection	Y	Observe (4)		
1) Pre-tensioning and slip-critical joints					
a) Turn-of-nut with matching markings		Y	Periodic		
b) Direct tension indicator		Y	Periodic		
c) Twist-off type tension control bolt		Y	Periodic		
d) Turn-of-nut without matching markings		Y	Continuous		
e) Calibrated wrench		Y	Continuous		
f) Snug-tight joints		Y	Periodic		
5. Visual inspection of exposed cut surfaces of galvanized structural steel main members and exposed corners of the rectangular HSS for cracks subsequent to galvanizing	Shop (3) or field inspection	Y	Periodic		
6. Embedments (Verify diameter, grade, type, length, embedment. See 1705.3 for anchors)	Field inspection	Y	Periodic		
7. Verify member locations, braces, stiffeners, and application of joint details at each connection comply with construction documents	Field inspection	Y	Periodic		
1705.3 Concrete Construction					
1. Inspection and placement verification of reinforcing steel and prestressing tendons	Shop (3) and field inspection	Y	Periodic		
2. Reinforcing bar welding:					
a. Verification of weldability of bars other than ASTM A706	Field inspection	Y	Periodic		
b. Inspection of single-pass fillet welds 5/16" or less in size	Field inspection	Y	Periodic		
c. Inspection of all other welds.	Field inspection	Y	Continuous		
3. Inspection of anchors cast in concrete.	Shop (3) and field inspection	Y	Periodic		
4. Inspection of anchors post-installed in hardened concrete members per research reports, or, if no specific requirements are provided, requirements shall be provided by the registered design professional and approved by the building official, including verification of anchor type, anchor dimensions, hole dimensions, hole cleaning procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment and tightening torque	Field inspection	Y	Periodic or as required by the research report issued by an approved source		
a. Adhesive anchors installed in horizontal or upward-inclined orientation that resist sustained tension loads	Field inspection	Y	Continuous		
b. Mechanical and adhesive anchors note defined in 4a.	Field inspection	Y	Periodic		
5. Verify use of approved design mix	Shop (3) and field inspection	Y	Periodic		
6. Prior to placement, fresh concrete sampling, perform slump and air content tests and determine temperature of concrete and perform any other tests as specified in construction documents.	Shop (3) and field inspection	Y	Continuous		
7. Inspection of concrete and scheduled placement for proper application techniques	Shop (3) and field inspection	Y	Continuous		
8. Verify maintenance of specified curing temperature and techniques	Shop (3) and field inspection	Y	Periodic		
9. Inspection of prestressed concrete:	Shop (3) and field inspection				
a. Application of prestressing force		N	Continuous		
b. Grouting of bonded prestressing tendons		N	Continuous		
10. Inspect erection of precast concrete members		N	Periodic		
11. Verification of in-situ concrete strength, prior to stressing of tendons in post tensioned concrete and prior to removal of shores and forms from beams and structural slabs	Review field testing and laboratory reports	Y	Periodic		
12. Inspection of formwork for shape, lines, location and dimensions	Field inspection	Y	Periodic		
13. Concrete strength testing and verification of compliance with construction documents	Field testing and review of laboratory reports	Y	Periodic		
1705.4 Masonry Construction					
(A) Level 1, 2 and 3 Quality Assurance:					
1. Prior to construction, verification of compliance of submittals	Submittal Review	Y	Prior to Construction		
(B) Level 2 & 3 Quality Assurance:					
1. Prior to construction verification of f'm and FAAC except where specifically required by the code	Testing by unit strength method or prism test method	Y	Prior to Construction		
2. During construction, verification of Slump Flow and Visual Stability Index (VSI) when prism test method	Testing by unit strength method or prism test method	Y	Periodic		
3. Testing by unit strength method or prism test method	Testing by unit strength method or prism test method	Y	Periodic		
(C) Level 3 Quality Assurance:					
1. During construction, verification of f'm and FAAC for every 5,000 SF	Testing by unit strength method or prism test method	N	Periodic		
2. During construction, verification of proportions of materials as delivered to the project site for premixed or preblended mortar, prestressing grout, and grout other than self-consolidating grout. (D) Levels 2 and 3 Quality Assurance.	Field inspection	N	Periodic		
3. As masonry construction begins, verify that the following are in compliance:					

SCHEDULE OF SPECIAL INSPECTIONS SERVICES					
MATERIAL / ACTIVITY	SERVICE	Y/N	EXTENT	AGENT	DATE COMPLETED
a. Properties of the site-prepared mortar	Field inspection	Y	Periodic		
b. Grade and size of prestressing tendons and anchorages	Field inspection	Y	Periodic		
c. Grade, type, and size of reinforcement, anchor bolts, and prestressing tendons and anchorages	Field inspection	Y	Periodic		
d. Prestressing technique	Field inspection	Y	Periodic		
e. Properties of thin-bed mortar for AAC masonry	Field inspection	N	Level 2 - Periodic, Level 3 - Continuous		
f. Sample panel construction	Field inspection	Y	Level 2 - Periodic, Level 3 - Continuous		
2. Prior to grouting, verify that the following are in compliance:					
a. Grout space	Field inspection	Y	Level 2 - Periodic, Level 3 - Continuous		
b. Placement of prestressing tendons and anchorages	Field inspection	N	Periodic		
c. Placement of reinforcement, connectors, and anchor bolts	Field inspection	Y	Level 2 - Periodic, Level 3 - Continuous		
d. Proportions of site-prepared grout and prestressing grout for bonded tendons	Field inspection	Y	Periodic		
3. Verify compliance of the following during construction:					
a. Materials and procedures with the approved submittals	Field inspection	Y	Periodic</		



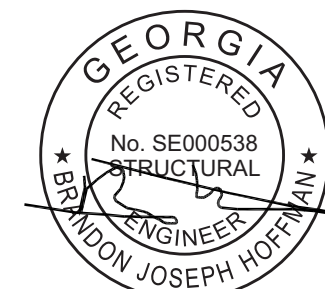
HEARD COUNTY FIRE STATION #5

365 Joe Stephens Road
Franklin, GA 30217

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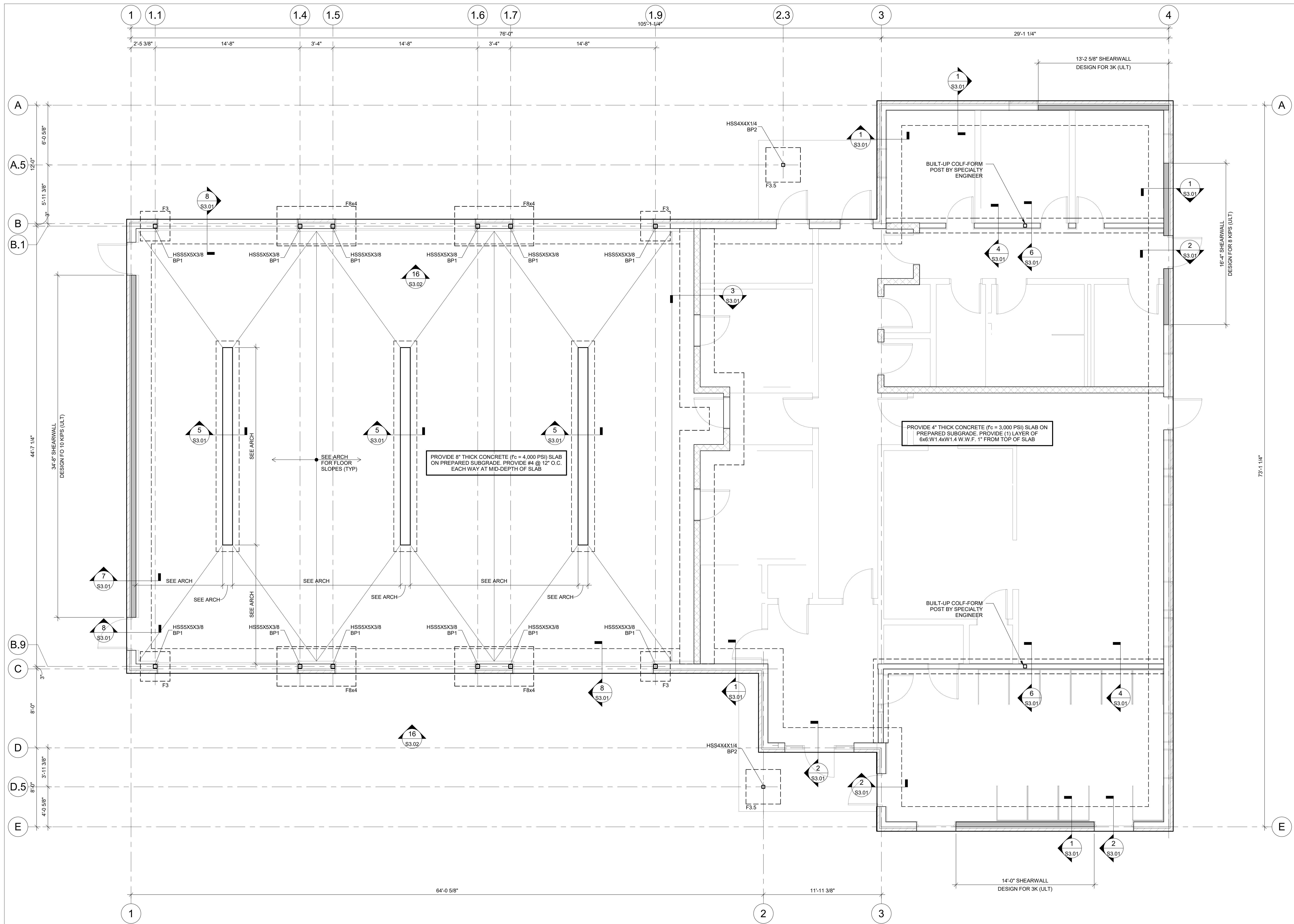
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PROJECT NO. 22125

SHEET TITLE
FOUNDATION PLAN

SHEET NO.

S1.01



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

- FOUNDATION PLAN NOTES:**
- TOP OF ALL EXTERIOR FOOTINGS SHALL BE -1'-4" BELOW FINISHED FLOOR, U.N.O.
 - TOP OF ALL INTERIOR FOOTINGS SHALL BE -0'-8" BELOW FINISHED FLOOR, U.N.O.
 - REFER TO ARCH1, AND CIVIL DRAWINGS FOR LOCATION OF MOISTURE BARRIER, CURBS, EXTERIOR SLABS, DRAINAGE, RAMP, STEPS, WALKS, ETC.
 - BUILDING SLAB IS NOT DESIGNED TO SUPPORT CRANE LOADS, CONCRETE MIXING TRUCKS, OR OTHER SPECIFIC CONSTRUCTION LOADINGS.
 - FOOTINGS SHALL BE CENTERED ON THE CENTERLINE OF THE WALL AND/OR COLUMNS, U.N.O.
 - COORDINATE LOCATION OF LOWERED FOOTINGS WITH PLUMBING DRAWINGS.
 - REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS NOT SHOWN, COORDINATE SLAB ELEVATIONS AND SLOPES WITH ARCHITECTURAL PLANS.
 - REFER TO ARCHITECTURAL AND MEP DRAWINGS FOR SIZE AND LOCATION OF SLAB AND FOUNDATION PENETRATIONS.
 - THICKEN SLAB TO MAINTAIN THE SLAB THICKNESS AROUND FLOOR BOXES AND CONDUIT.
 - BP1 - DENOTES BASE PLATE 3/4"x11"x11" W/ (4) 3/4" DIA. HEX HEAD A.B.
 - BP2 - DENOTES BASE PLATE 3/4"x10"x10" W/ (4) 3/4" DIA. HEX HEAD A.B.

- FOUNDATION PLAN LEGEND**
- INDICATES STEP IN FOUNDATION (SEE STEPPED FOOTING DETAIL)
 - INDICATES ATYPICAL TOP OF FOOTING ELEVATION
 - INDICATES A STEP IN THE SLAB ON GRADE

FOOTING SCHEDULE

MARK	LENGTH	WIDTH	THICKNESS	REINFORCEMENT
F3	3'-0"	3'-0"	1'-4"	(4) #5 E.W.
F3.5	3'-6"	3'-6"	1'-4"	(4) #5 E.W.
F8x4	4'-0"	8'-0"	1'-4"	(9) #5 S.W. & (5) #5 L.W.



HEARD COUNTY FIRE STATION #5

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Organization Name

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PROJECT NO.

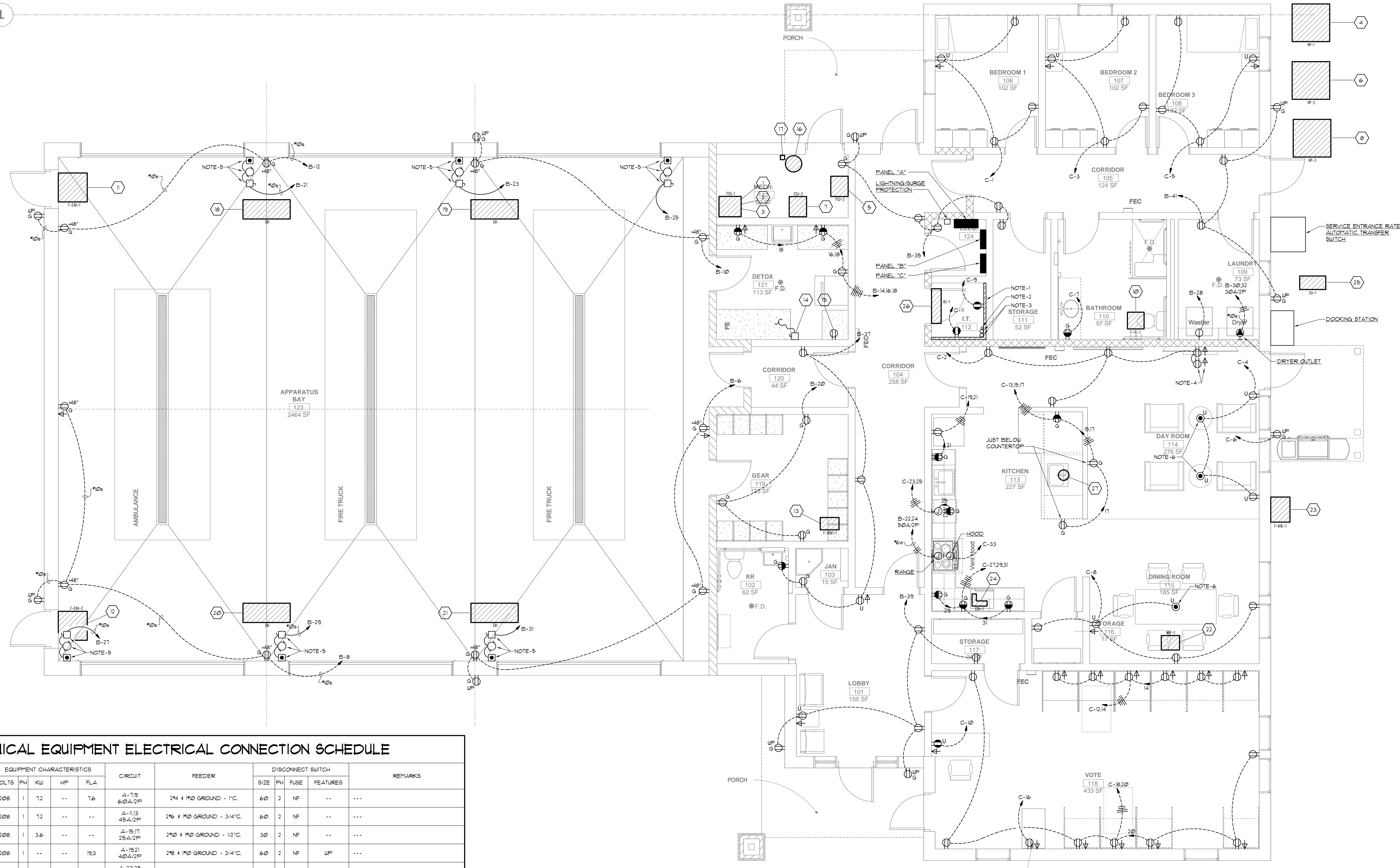
22125

SHEET TITLE

FLOOR PLAN - POWER

SHEET NO.

E1.1



MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE										
ITEM NO.	DESCRIPTION	VOLTS	PH	KW	HP	FLA	CIRCUIT	FEEDER	DISCONNECT SWITCH	REMARKS
1	FCU-1 (1 of 3)	208	1	12	..	7.6	A-119 60A/2P	2# 4 MØ GROUND - 1/2"	60 2 NF	..
2	FCU-1 (2 of 3)	208	1	12	..	..	A-113 45A/2P	2# 4 MØ GROUND - 3/4"	60 2 NF	..
3	FCU-1 (3 of 3)	208	1	3.6	..	..	A-18,17 35A/2P	2# 4 MØ GROUND - 1/2"	30 2 NF	..
4	HP-1	208	1	..	..	19.3	A-19,21 40A/2P	2# 4 MØ GROUND - 3/4"	60 2 NF	WP
5	FCU-2	208	1	12	..	2.8	A-23,25 50A/2P	2# 4 MØ GROUND - 3/4"	60 2 NF	..
6	HP-2	208	1	..	..	12.3	A-21,23 25A/2P	2# 4 MØ GROUND - 1/2"	30 2 NF	WP
7	FCU-3	208	1	12	..	2.8	A-3,33 50A/2P	2# 4 MØ GROUND - 3/4"	60 2 NF	..
8	HP-3	208	1	..	..	12.3	A-35,37 25A/2P	2# 4 MØ GROUND - 1/2"	30 2 NF	WP
9	OMITTED	..	..	..	..	..	..	..	..	..
10	F-TE-1	120	1	ØØ2	..	..	CONTROLLED BY LIGHT SWITCH	2# 4 MØ GROUND - 1/2"	..	MANUAL STARTER
11	F-EXH-1	120	1	..	1/2	..	B-1 20A/1P	2# 4 MØ GROUND - 1/2"	..	MANUAL STARTER
12	F-EXH-2	120	1	..	1/2	..	B-3 20A/1P	2# 4 MØ GROUND - 1/2"	30 1 NF	SN
13	F-VENT-1	120	1	..	..	Ø32	B-5 15A/1P	2# 4 MØ GROUND - 1/2"	30 1 NF	SN
14	DRYING CABINET	208	3	12.0	..	..	A-26,28,30 40A/3P	3# 4 MØ GROUND - 3/4"	60 3 NF	..
15	EXTRACTOR	120	1	1.0	..	..	B-7 20A/1P	2# 4 MØ GROUND - 1/2"	..	CORD & PLUG
16	WATER HEATER	208	1	6.0	..	..	A-39,41 40A/2P	2# 4 MØ GROUND - 3/4"	60 2 NF	..
17	CIRC. PUMP	120	1	..	1/2	..	B-9 15A/1P	2# 4 MØ GROUND - 1/2"	..	MANUAL STARTER
18	ELECTRIC HEATER	208	3	9.5	..	..	A-7,4,6 40A/3P	3# 4 MØ GROUND - 3/4"	60 3 NF	..
19	ELECTRIC HEATER	208	3	9.5	..	..	A-9,10,12 40A/3P	3# 4 MØ GROUND - 3/4"	60 3 NF	..
20	ELECTRIC HEATER	208	3	9.5	..	..	A-14,16,18 40A/3P	3# 4 MØ GROUND - 3/4"	60 3 NF	..
21	ELECTRIC HEATER	208	3	9.5	..	..	A-20,22,24 40A/3P	3# 4 MØ GROUND - 3/4"	60 3 NF	..
22	M-AP-1	120	1	..	1/4	..	B-11 15A/1P	2# 4 MØ GROUND - 1/2"	..	MANUAL STARTER SHUNT TRIP BREAKER CONTROLLED BY HOOD FIRE SUPPRESSION SYSTEM.
23	F-KHE-1	120	1	..	1/4	..	B-15 15A/1P	2# 4 MØ GROUND - 1/2"	..	FURNISHED WITH UNIT
24	EDH-1	208	3	11.0	..	..	A-37,34,36 40A/3P	3# 4 MØ GROUND - 3/4"	60 3 NF	..
25	QU-1	208	1	..	..	9.0	B-11,15 15A/2P	2# 4 MØ GROUND - 1/2"	30 2 NF	WP
26	AG-1	208	1	..	..	1.0	B-11,15 15A/2P	3# 4 MØ GROUND - 1/2"	30 3 NF	..
27	DISPOSAL	120	1	..	1/2	..	B-33 20A/1P	2# 4 MØ GROUND - 1/2"	..	FURNISHED WITH UNIT FIELD COORDINATE SWITCH LOCATION WITH GUNER.

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

ELECTRICAL NOTES

- INSTALL 8" HIGH X 3/4" THICK PAINTED FIRE RATED FLYWOOD BACKBOARD ON WALLS AS INDICATED.
- EXTEND 1/2" GROUND - 1/2" C. AND CONNECT TO BUILDING GROUND. LEAVE 10" Ø OF COILED SLACK AT BACKBOARD.
- INSTALL 2 # 4" C. TO PROPERTY LINE. REFER TO E01 FOR ADDITIONAL INFORMATION.
- INSTALL DEVICES TO ACCOMMODATE WALL MOUNTED MONITOR. COORDINATE SPECIAL MOUNTING HEIGHT WITH ARCHITECT.
- OVERHEAD DOOR MOTOR AND CONTROLS. INSTALL PUSH BUTTON CONTROLS (FURNISHED WITH EQUIPMENT) 48" AFF. INSTALL A 20A/1P DISCONNECT ADJACENT TO DOOR MOTOR. COORDINATE INSTALLATION WITH EQUIPMENT VENDOR. THIS CONTRACTOR IS RESPONSIBLE FOR ALL FINAL CONNECTIONS.
- INSTALL A HUBBELL # B2431 SINGLE GANG FLOOR BOX WITH A 3/8" Ø COVER AND A 3/8" Ø CARPET FLANGE TO ACCOMMODATE A DUPLEX OUTLET (BASIS OF DESIGN). COORDINATE EXACT LOCATION WITH ARCHITECT.

NOTES:

- WALL MOUNTED ELECTRICAL DEVICES SHALL NOT BE INSTALLED BACK-TO-BACK.
- EACH "HOT" SHALL HAVE A DEDICATED NEUTRAL. SHARING OF NEUTRALS IS NOT ALLOWED.
- UL LISTED, FIRE RATED PUTTY PADS SHALL BE INSTALLED ON OUTSIDE OF ALL JUNCTION BOXES AND PANELS INSTALLED IN RATED WALLS.

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2023-073 JKM



HEARD COUNTY FIRE STATION #5

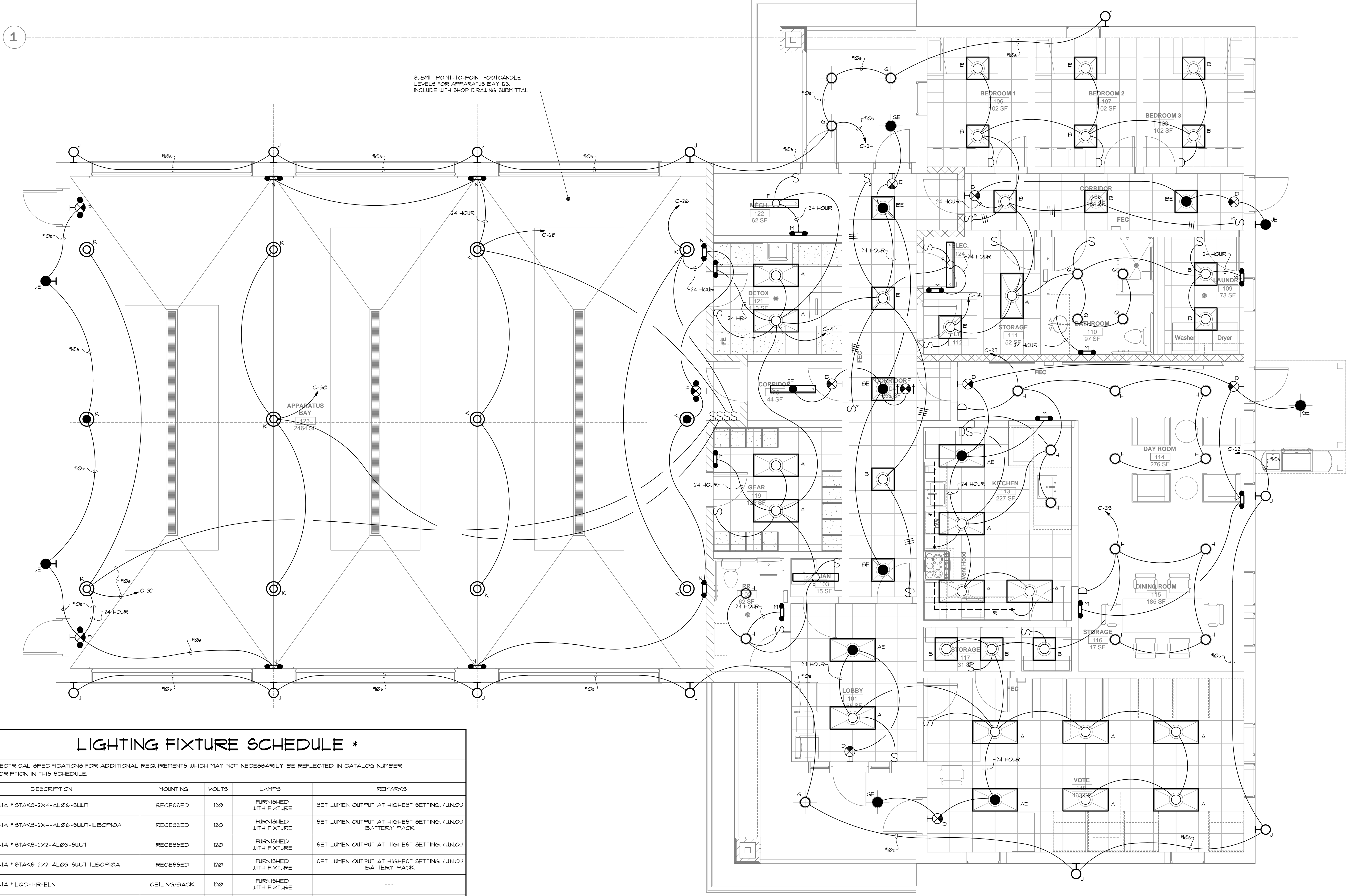
365 Joe Stephens Road
Franklin, GA 30217

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RELEASED FOR CONSTRUCTION

REVISIONS

No.	Date	Description
03/06/24		Issued for Bid



LIGHTING FIXTURE SCHEDULE *

MARK	DESCRIPTION	MOUNTING	VOLTS	LAMPS	REMARKS
A	LITHONIA * STAKS-2X4-AL06-SUW1	RECESSED	120	FURNISHED WITH FIXTURE	SET LUMEN OUTPUT AT HIGHEST SETTING. (UNO.)
AE	LITHONIA * STAKS-2X4-AL06-SUW1-ILBCP10A	RECESSED	120	FURNISHED WITH FIXTURE	SET LUMEN OUTPUT AT HIGHEST SETTING. (UNO.) BATTERY PACK
B	LITHONIA * STAKS-2X2-AL03-SUW1	RECESSED	120	FURNISHED WITH FIXTURE	SET LUMEN OUTPUT AT HIGHEST SETTING. (UNO.)
BE	LITHONIA * STAKS-2X2-AL03-SUW1-ILBCP10A	RECESSED	120	FURNISHED WITH FIXTURE	SET LUMEN OUTPUT AT HIGHEST SETTING. (UNO.) BATTERY PACK
D	LITHONIA * LQC-1-R-ELN	CEILING/BACK	120	FURNISHED WITH FIXTURE	...
E	LITHONIA * LQC-2-R-ELN	CEILING	120	FURNISHED WITH FIXTURE	...
F	LITHONIA * C88-L48-AL03-MVOLT-SUW3-80CRI	SURFACE/WALL	120	FURNISHED WITH FIXTURE	...
FE	LITHONIA * C88-L48-AL03-MVOLT-SUW3-80CRI-L10-DC-CEC	SURFACE/WALL	120	FURNISHED WITH FIXTURE	BATTERY PACK
G	LUMIX * W5500-25W-4000K-120-BRONZE	SURFACE	120	FURNISHED WITH FIXTURE	...
GE	LUMIX * W5500-25W-BRONZE-4000K-120V-PHOTOCELL-BATTERY PACK	SURFACE	120	FURNISHED WITH FIXTURE	PHOTOCELL BUTTON, BATTERY PACK
H	LITHONIA * LDN6-AL02-SUW1-L26AR-L86-MVOLT-145Z	RECESSED	120	FURNISHED WITH FIXTURE	...
J	LITHONIA * WDGZLED-F3-4000K-10CRI-T13-MVOLT-6RH	WALL	120	FURNISHED WITH FIXTURE	...
JE	LITHONIA * WDGZLED-F3-4000K-10CRI-T13-MVOLT-6RH-PE-EDWC	WALL	120	FURNISHED WITH FIXTURE	PHOTOCELL BUTTON, BATTERY PACK
K	LITHONIA * JEBL-30L-40K-80CRI-UH-JEBLPCLR14-JGBLS120	PENDANT	120	FURNISHED WITH FIXTURE	215.0 WATTS
M	LITHONIA * ELM2-LED	WALL	120	FURNISHED WITH FIXTURE	...
N	DUAL LITE * EVHC12-06L	WALL	120	FURNISHED WITH FIXTURE	...
F	HUBBELL * CCR	WALL	120	FURNISHED WITH FIXTURE	...
Q	LITHONIA * EVO-35/14-6-DFR-MVOLT	RECESSED	120	FURNISHED WITH FIXTURE	...
R	NEW STAR * M18 SERIES-HC-L1-3500-A-UN	UNDER CABINET	120	FURNISHED WITH FIXTURE	INSTALL LENGTHS NEEDED TO BEST COVER AREAS SHOWN.

* EQUALS BY LITHONIA, LIGHTOLIER, DAY-BRITE, WILLIAMS, METALUX, COLUMBIA, FRESCOLITE, DUAL-LITE, AND EMERGI-LITE WILL BE ACCEPTABLE.

NOTE:
LED LIGHTING FIXTURES SHALL HAVE A MINIMUM WARRANTY OF 10 YEARS. PROVIDE A LETTER FROM EACH LIGHTING FIXTURE MANUFACTURER STATING A 10 YEAR WARRANTY IS INCLUDED.

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



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