

Addition to
Thanksgiving Elementary School
JOHNSTON COUNTY PUBLIC SCHOOLS

Lynch Road
Johnston County / North Carolina

Hite associates
ARCHITECTURE / PLANNING / TECHNOLOGY
2600 Meridian Drive / Greenville, N.C. 27834 / tel 252-757-0333



STRUCTURAL CONSULTANT:
QUEEN ENGINEERING & DESIGN, P.A.
5530 Munford Road Raleigh, North Carolina 27612 tel (919) 420-0480

MEPT ENGINEERING CONSULTANT:
ENGINEERING SOURCE, P.A.
102 Regency Boulevard Greenville, North Carolina 27834 tel (252) 439-0338

ALLOWABLE AREA

Primary Occupancy:

Assembly ☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ A-5
☐ Business
☒ Educational
 Factory ☐ F-1 Moderate ☐ F-2 Low
 Hazardous ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM
 Institutional ☐ I-1 ☐ I-2 ☐ I-3 ☐ I-4
☐ I-3 Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
☐ Mercantile
 Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
 Storage ☐ S-1 Moderate ☐ S-2 Low ☐ High-Piled
 Parking Garage ☐ Open ☐ Enclosed ☐ Repair
☐ Utility and Miscellaneous

Accessory Occupancy Classification(s): _____

Science Classrooms _____

This Separation is not exempt as a Non-Separated Use (see exceptions)

Special Uses (Chapter 4 - List code Sections): NA

Special Provisions (Chapter 5 - List code Sections): NA

- 705.8 Exception 2

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, SBCCI, ICC, etc., describe below)

NC Department of Insurance

ENERGY REQUIREMENTS

The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs. annual energy cost for the proposed design.

Cimate Zone:

☒ 3
 ☐ 4
 ☐ 5

Method of Compliance:

☒ Prescriptive (Energy Code)
 ☐ Performance (Energy Code)
 ☐ Prescriptive (ASHRAE 90.1)
 ☐ Performance (ASHRAE 90.1)

THERMAL ENVELOPE

Roof/ceiling Assembly (each assembly)

Description of assembly	METAL DECK / RIGID INSULATION / BATT INSULATION / ACOUSTICAL TILES
U-Value of total assembly	0.032
R-Value of insulation	30
Skylights in each assembly	NONE
U-Value of skylight	N/A
total square footage of skylights in each assembly	N/A

Exterior Walls (each assembly)

Description of assembly	BRICK / AIR SPACE / RIGID INSULATION / 8" CMU
U-Value of total assembly	0.064
R-Value of insulation	12.4
Openings (windows or doors with glazing)	Openings (windows)
U-Value of total assembly	0.32
solar heat gain coefficient	
projection factor	
Door R-Values	N/A

Walls below grade -

Description of assembly - Block, foam filled cells, 2" c.i.	
U-Value of total assembly - 0.0667	
R-Value of insulation - 13 c.i.	

Floor over unconditioned space (each assembly) - NOT USED

Description of assembly - 8" Block, foam filled cells, 2" c.i.	
U-Value of total assembly - 0.11	
R-Value of insulation - 7.5R	

Floor slab on grade

Description of assembly - 4" thick concrete slab	
U-Value of total assembly - 0.21	
R-Value of insulation - N/A	
Horizontal/vertical requirement	
slab heated - NO	

Project No.	22502
Date:	7 February 2025
Drawing no.	BCS 300

PARENT TRACT REMAINING AFTER DIVISION
RAYMOND ELMORE EARP, JR. FAMILY TRUST
NANCY CREWS EARP TRUSTEE
and MARY EARP MOORE, WIFE
DEED BOOK 4576, PAGE 279
NC PIN # 260900-06-1673

*PARENT TRACT REMAINING AFTER DIVISION
RAYMOND ELMORE EARP, JR. FAMILY TRUST
NANCY CREWS EARP TRUSTEE
and MARY EARP MOORE WORLEY
DEED BOOK 4578, PAGE 279
NE PIN • 2609C0-06-1673

GENERAL NOTE

1. GENERAL CONTRACTOR SHALL REPLACE AND OR REPAIR ANY DAMAGED OR CRACKED SECTIONS OF CONCRETE CURB WALK OR ASPHALT PAVING THAT IS TO REMAIN IN PLACE AS REQUIRED BY THE CITY ENGINEER. CEMENT CONCRETE PROVIDE A STRAIGHT UNIFORM EDGE PROVIDE A SMOOTH TRANSITION TO EXISTING FINISHES.
2. G.C. SHALL REMOVE ALL UNDERGROUND STORM DRAINAGE SANITARY SEWER SERVICES WATER SERVICES IRRIGATION LINES GAS LINES ELECTRICAL LINES ETC (WHETHER OR WHETHER NOT SHOWN) THAT HAVE BEEN IDENTIFIED BY THE PRIVATE LOCATOR SERVICE. EXPOSED DURING DEMOLITION AND CONSTRUCTION OPERATIONS AS REQUIRED.
3. ANY EXISTING TREES LANDSCAPED AREAS AND BUFFERYARDS THAT ARE TO REMAIN SHALL BE PROTECTED AS REQUIRED FROM ALL DEMOLITION AND CONSTRUCTION ACTIVITIES PER CITY OF SANFORD PLANNING AND DEVELOPMENT REGULATIONS.
4. SEVER MANHOLES CHUTE BASINS VALVE BOXES CLEAN OUTS GRATES & COVERS THAT ARE TO REMAIN IN USE SHALL BE PROTECTED AND ADJUSTED AS REQUIRED TO MEET FINAL GRADES CONTRACTOR SHALL IDENTIFY AND LOCATE EACH AND ADJUST TO MEET FINAL GRADES. CONTRACTOR SHALL PROVIDE HEAVY DUTY TRAFFIC RATED COVERS IN ALL TRAFFIC ASPHALT AREAS.

ATTENUATION BASIN

TC 400 Building
Kitchen / Dining /
Multipurpose Building
FFE = 265.80'

300 Building
classroom Addition
FFF = 265.80'

Year	Total Workforce (Millions)	Nonfarm Sector (Millions)	Farm Sector (Millions)
1990	100	85	15
1991	101	86	15
1992	102	87	15
1993	103	88	15
1994	104	89	15
1995	105	90	15
1996	106	91	15
1997	107	92	15
1998	108	93	15
1999	109	94	15
2000	110	95	15

15.80' FFE

100 Building
Administration / Media
FFE = 265.80'

0 Building
room Building

$E = 265.80'$

room Building
= 265.80'

CONSTRUCTION ENTRANCE NOTES

2. 1" TO 3" COARSE AGGREGATE STONE SHALL BE USED PAID TO BE 20%W/ST/20" AT A MINIMUM.
3. TURNING RADII SHOULD TO ACCOMMODATE LARGE TRUCKS TO GO BY.
4. ENTRANCES SHOULD BE LOCATED TO PROVIDE FOR MAXIMUM VAIL BY ALL.
5. SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR DIRECT DRIFTING OF DIRT ONTO STREET/ PAVED TOP DRESSING WITH STONE WILL BE NECESSARY. KEEP SIDE WASH.
6. ANY MATERIAL WHICH STILL REMAINS IF ON/TO THE ROAD MUST BE CLEANED UP IMMEDIATELY.
7. APPLICABLE AT ALL POINTS OF ADDRESS AND SPECIAL EVENTS SITE IS STABLISHED. PROVIDE ADEQUATE DRAINAGE TO PREVENT FLOODING AND EROSION.
8. PURPOSE TO PROVIDE PROTECTION AGAINST WEATHER ELEMENTS CAN STOP THEIR MUD AND SLURRY TO AVOID TRANSPORTING IT ONTO PUBLIC ROADS TO CONTROL EROSION.
9. AVOID CEMENTS IN PUBLIC ROADS AND STEP STOPS SHOULD AVOID ALLEGATION AND OTHER OBTAINABLE MATERIAL FROM THE FOUNDATION AREA GRASS AND CROWN.
10. IF THE SLOPE TOWARD THE ROAD EXCEEDS 2% CONSTRUCT A RAKE TO 8" HIGH WITH 3/4" SLICES SLOPED AWAY FROM THE FOUNDATION BOTH APPROXIMATELY 10'-0" FROM THE FOUNDATION AND 10'-0" FROM THE ROAD.
11. PLANT GEOTEXTILE FABRIC ON SLOPED FOUNDATION TO IMPROVE STABILITY, ESPECIALLY IN WET CONDITIONS THAT ARE ANTICIPATED.
12. PLANT SPECIES TO BE PLANTED AND GRADE AS SHOWN ON PLANS, LEAVING SLOPE SMOOTH AND SLOPED FOR DRAINAGE.
13. DIGITAL ALI SURFACE RAINFALL AND DRAINAGE FROM THE STONE PAID TO A SEWAGE TREATMENT PLANT.
14. OVERSTAY LINE UNDER PAID TO NEEDS TO MAINTAIN PROPER PUBLIC ROAD DRAINAGE.

PITTMAN PINES, LLC
DEED BOOK 4937, PAGE 19
PLAT BOOK 84, PAGE 357
PLAT BOOK 9, PAGE 91
NC PIN • 260900-04-6821

201.2 TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

SCALE: NONE

LEGEND

EXP. - EXISTING IRON PIPE	UC - UNDERPASS	N	N	WATER LINE - PROPOSED/EXISTING
EXP. IRON PIPE SET	OD - OVERHEAD			1" - 3" WATER LINE PROPOSED
EXP. - EXISTING CONCRETE MANHOLE	EXP. - EXISTING IRON PIPE			3" - 12" WATER LINE EXISTING
EXP. - EXISTING CONCRETE MANHOLE	EXP. - EXISTING CONCRETE	SS	SS	SANITARY SEWER - EXISTING
EXP. - EXISTING CONCRETE MANHOLE	EXP. - EXISTING CONCRETE			SANITARY SEWER - PROPOSED
EXP. - EXISTING CONCRETE MANHOLE	EXP. - EXISTING CONCRETE			FORCE MAIN - PROPOSED/EXISTING
EXP. - EXISTING CONCRETE MANHOLE	EXP. - EXISTING CONCRETE			OVERHEAD POWER - EXISTING/NEW
EXP. - EXISTING CONCRETE MANHOLE	EXP. - EXISTING CONCRETE			U.S. GAS LINE - EXISTING/NEW
EXP. - EXISTING CONCRETE MANHOLE	EXP. - EXISTING CONCRETE			U.S. ELECTRICAL LINE - EXISTING/NEW
EXP. - EXISTING CONCRETE MANHOLE	EXP. - EXISTING CONCRETE			U.S. COMMUNICATIONS / TELEPHONE
EXP. - EXISTING CONCRETE MANHOLE	EXP. - EXISTING CONCRETE			PROPOSED STORM DRAINAGE
EXP. - EXISTING CONCRETE MANHOLE	EXP. - EXISTING CONCRETE			STORM DRAINAGE
EXP. - EXISTING CONCRETE MANHOLE	EXP. - EXISTING CONCRETE			PROPOSED STORM ELEVATION
EXP. - EXISTING CONCRETE MANHOLE	EXP. - EXISTING CONCRETE			EXISTING STORM ELEVATION
EXP. - EXISTING CONCRETE MANHOLE	EXP. - EXISTING CONCRETE			EXISTING CONCRETE
EXP. - EXISTING CONCRETE MANHOLE	EXP. - EXISTING CONCRETE			PROPOSED CONCRETE
EXP. - EXISTING CONCRETE MANHOLE	EXP. - EXISTING CONCRETE			CONCRETE
EXP. - EXISTING CONCRETE MANHOLE	EXP. - EXISTING CONCRETE			UTILITY TIE-IN CONNECTION POINT
EXP. - EXISTING CONCRETE MANHOLE	EXP. - EXISTING CONCRETE			DIRECTION OF SWALE / FLOW

NOTE: SEE GRADING & DRAINAGE LEGEND ON C-201 FOR OTHER SYMBOLS AND ABBREVIATIONS

811



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NORTH CAROLINA
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NORTH

201.1 SITE GRADING & DRAINAGE PLAN

50 0 50 100 150 FEET

GRAPHIC SCALE

TOTAL DISTURBED AREA = .45 ACRES
ALL CONSTRUCTION STAGING, DISTURBED
AREA LIMITS MUST BE LESS THAN <1.0 ACRES MAX
AND MAINTAINED AT ALL TIMES.

Thanksgiving Elementary School
Addition to
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Project No. 22502

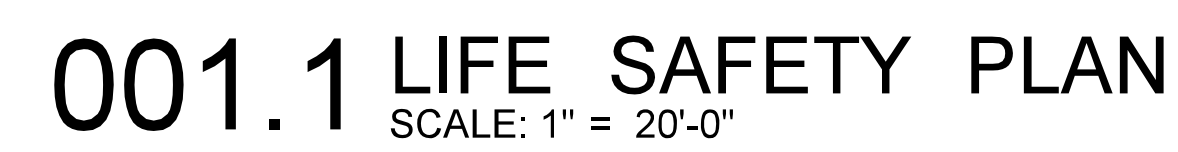
Date: 7 February 2025

Ordering no.

C
201

CIVIL ENGINEERING CONSULTANT:
J. STEPHEN JANOWSKI, P.E.
Rivers & Associates, Inc.
107 East 2nd Street, Greenville, NC
(252) 714-3002

SEE SHEET T-1 FOR ADDITIONAL ABBREVIATIONS



Student Capacity (per DPI) (with additional classrooms)			
GRADE	NO. CLASSROOMS	CAPACITY	TOTAL
PK	2	15	30
K	6	18	108
1	7	17	119
2	8	17	136
3	8	17	136
4	9	26	234
5	9	26	234
EC	3	10	30
OTHER	5	3	15
			1,042

Gross Building Square Footages

100 Unit Administration:	19,892 square feet
200 Unit Classroom Wing:	22,389 square feet
300 Unit Classroom Wing:	13,948 square feet
400 Unit Multi/Dining:	20,756 square feet
500 Unit Classroom Wing:	24,858 square feet
Connectors:	3,871 square feet

Grand Total Base Plan: 105,804 square feet

Net Building Square Footages

100 Unit Administration:	19,226 square feet
200 Unit Classroom Wing:	21,453 square feet
300 Unit Classroom Wing:	13,306 square feet
400 Unit Multi/Dining:	19,843 square feet
500 Unit Classroom Wing:	23,924 square feet
Connectors:	3,136 square feet

— Grand Total Base Plan: —100,888 square feet

GENERAL NOTES:

- (1) CMU WALLS WHERE INDICATED SHALL BE RUN SOLD TO BOTTOM OF DECK, GROUTED SOLD TO DECK. ALL OTHER CMU WALLS, UNLESS OTHERWISE NOTED, SHALL BE SET ON FULL BLOCK COURSE AND TOP OF WALL SECTION SHALL BE 8"-THIN-FULL-HEIGHT WALLS SHALL BE BOND TO ROOF. SEE STRUCTURAL DRAWINGS.
- (2) CMU WALL INTERSECTIONS SHALL BE BONDED WITH HOT DIPPED GALVANIZED HARDWARE (COURSE, END, OR CORNER). HARDWARE SHALL BE IDENTIFIED AT 60" ON CENTER.
- (3) PROVIDE WALL CONTROL AND EXPANSION JOINTS WHEN SHOWN AND DETAIL AS PRE-APPROVED. ALTERNATING LOCATIONS 32'-ON CENTER MAXIMUM. PROVIDE IN ONE SIDE OF EACH OPENING IN MASONRY.
- (4) PROVIDE WALL EXPANSION JOINTS AT POINTS AND INTERSECTIONS WHERE INDICATED. 7/8" W/D FILLED WITH EXPANSION JOINT MATERIAL AND CAULK, WITH BACKER ROD EACH SIDE.
- (5) 90° OUTSIDE CMU CORNERS SHALL HAVE BUILDUP EDGE U/S.
- (6) ALL 45° CMU WALL BENDS SHALL BE CONSTRUCTED WITH SPECIAL PRECAST UNITS.
- (7) INTERIOR CMU JOINTS SHALL BE TOLDED CROWN.
- (8) ALL CMU SURFACES TO RECEIVE PAINT OR PLASTER SHALL BE POINTED UP AND PATCHED WITH MORTAR TO ELIMINATE DEPRESSIONS, VOIDS OR OTHER IRREGULARITIES LARGER THAN 1/8" DIAMETER. PATCHES SHALL BE FINISHED TO MATCH ADJACENT AREAS.
- (9) 1/4" DIA HOLE FOR APPLICATION OF BLOCK FILLER; BLOCK FILLER SHALL BE APPLIED IN THICKNESS AND COMPACTED TO FULLY PENETRATE ALL EXISTING PINHOLES IN MASONRY SURFACES. FRESH PAINT SHALL BE SPRAY APPLIED, & ROLLED IN.
- (10) LAY-IN ACOUSTICAL TILE CEILING SYSTEM SHALL BE 2' x 2' GRID. IN LAYING OUT CELLS, COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS, AND AVOID THE USE OF LESS-THAN-HALF SIZE UNITS.
- (11) STEEL DOOR AND WINDOW FRAMES SHALL BE PAINTED SAME COLOR AS ADJACENT WALLS.
- (12) PROVIDE REINFORCED CONCRETE WALL AND CONCRETE AREAS WITH CASANOVA AND SCAURED JOINTS IN PRE-APPROVED LOCATIONS. EXPANSION JOINTS SHALL BE 7/8" WIDE, WITH EDGES FINISHED TO 7/8" RAD, AND FILLED WITH HOT DIPPED GALVANIZED HARDWARE. PROVIDE CORNER JOINTS AT INTERSECTION CHANGES. PROVIDE 90° TURN JOINTS AT EXISTING OR NEW WALLS OR PARTITIONS, AND AT INTERVALS NOT TO EXCEED 30'. SCURRED JOINTS SHALL BE SCURRED TO 1/8" W/D AND PARALLEL TO AND PERPENDICULAR TO INTERSECTIONS TO EXPOSE 3 FEET.
- (13) GENERAL CONTRACTOR SHALL CONFIRM CASEWORK BUILT-INS AND ACCESSORIES LOCATIONS WITH OWNER PRIOR TO COMMENCEMENT OF WORK. PROVIDE COORDINATION OF PLUMBING, MECHANICAL, AND ELECTRICAL FIXTURE

QUALITY CONTROL:

(1) CONSTRUCT SAMPLE 4' X 4' WALL PANEL WITH INSULATION IN PLACE, SHOWING EXTERIOR BRICK AND INTERIOR BLOCK WORKMANSHIP. APPROVED PANEL WILL BE USED AS STANDARD OF QUALITY FOR ALL WALLS THROUGHOUT.

(2) COMPLETE CONSTRUCTION OF ONE EACH OF THE FOLLOWING IS REQUIRED FOR ARCHITECTS APPROVAL. APPROVED CONSTRUCTION IN EACH CASE WILL BE USED AS STANDARD OF QUALITY REQUIRED THROUGHOUT.

- A. WINDOW SECTION, FITTED AND CALKED.
- B. ROOF OVERHANG WITH GUTTER.
- C. ROOF COPING SECTIONS 12" WITH JOINT.
- D. CLASSROOM CARPET, RUBBER BASE, PAINTING/STAINING, CHALKBOARDS AND TAGBOARDS, CEILING.

(3) SEE SPECIFICATIONS FOR ALLOWABLE CONSTRUCTION TOLERANCES. THESE WILL BE CHECKED AND ENFORCED.

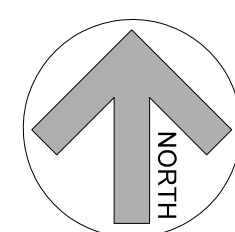
500 Unit Kindergarten / First Grade

100 Unit Administration / Media Center

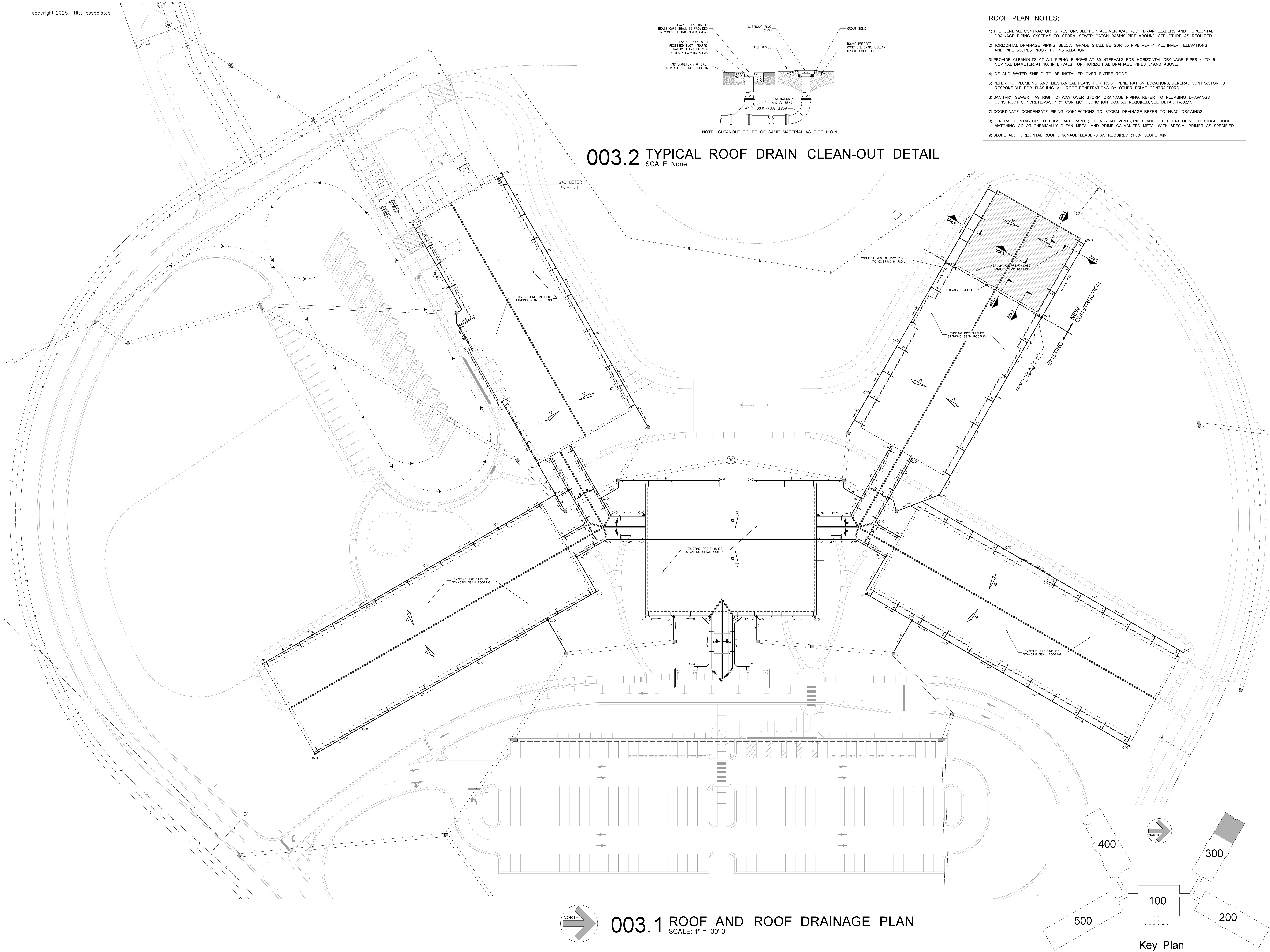
300 Unit Fourth Grade / Fifth Grade

**200 Unit
Second Grade /
Third Grade /
Fourth Grade**

001.1 OVERALL FLOOR PLAN



002.1 OVERALL EQUIPMENT PLATFORM PLAN
SCALE: 1" = 30'-0"



003.2 TYPICAL ROOF DRAIN CLEAN-OUT DETAIL
SCALE: None

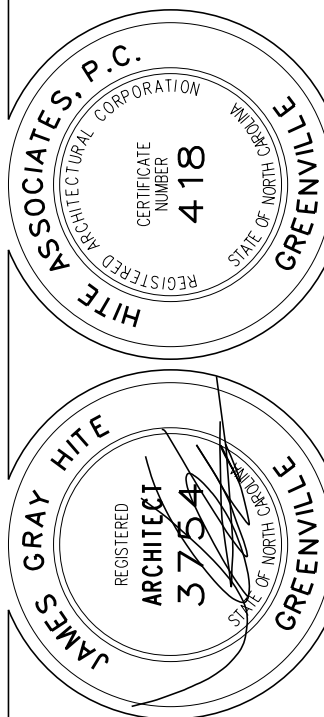
003.1 ROOF AND ROOF DRAINAGE PLAN
SCALE: 1" = 30'-0"

ROOF PLAN NOTES:

- 1) THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL VERTICAL ROOF DRAIN LEADERS AND HORIZONTAL DRAINAGE PIPING SYSTEMS TO STORM SEWER CATCH BASINS PIPE AROUND STRUCTURE AS REQUIRED.
- 2) HORIZONTAL DRAINAGE PIPING BELOW GRADE SHALL BE SDR 35 PIPE. VERIFY ALL INVERT ELEVATIONS AND PIPE SLOPES PRIOR TO INSTALLATION.
- 3) PROVIDE CLEANOUTS AT ALL PIPING ELBOWS, AT 80 INTERVALS FOR HORIZONTAL DRAINAGE PIPES 4" TO 6" NOMINAL DIAMETER, AT 100 INTERVALS FOR HORIZONTAL DRAINAGE PIPES 8" AND ABOVE.
- 4) ICE AND WATER SHIELD TO BE INSTALLED OVER ENTIRE ROOF.
- 5) REFER TO PLUMBING AND MECHANICAL PLANS FOR ROOF PENETRATION LOCATIONS. GENERAL CONTRACTOR IS RESPONSIBLE FOR FLASHING ALL ROOF PENETRATIONS BY OTHER PRIME CONTRACTORS.
- 6) SANITARY SEWER HAS RIGHT-OF-WAY OVER STORM DRAINAGE PIPING. REFER TO PLUMBING DRAWINGS. CONSTRUCT CONCRETE/MASONRY CONFLICT / JUNCTION BOX AS REQUIRED. SEE DETAIL P-002.15
- 7) COORDINATE CONDENSATE PIPING CONNECTIONS TO STORM DRAINAGE; REFER TO HVAC DRAWINGS.
- 8) GENERAL CONTRACTOR TO PRIME AND PAINT (2) COATS ALL VENTS, PIPES, AND FLUES EXTENDING THROUGH ROOF. MATCHING COLOR. CHEMICALLY CLEAN METAL AND PRIME GALVANIZED METAL WITH SPECIAL PRIMER AS SPECIFIED.
- 9) SLOPE ALL HORIZONTAL ROOF DRAINAGE LEADERS AS REQUIRED (1.0% SLOPE MIN)

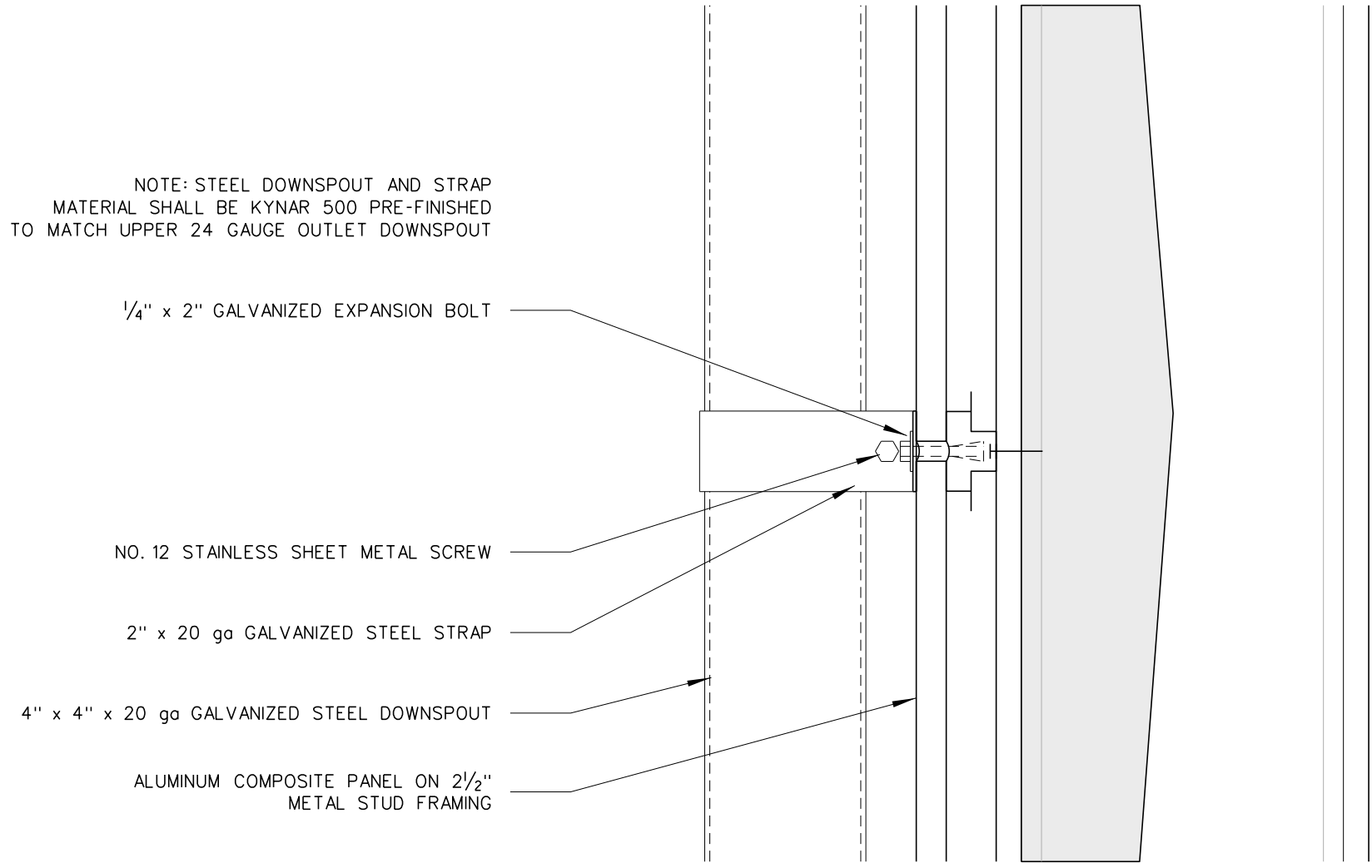
No.	Date	Revision

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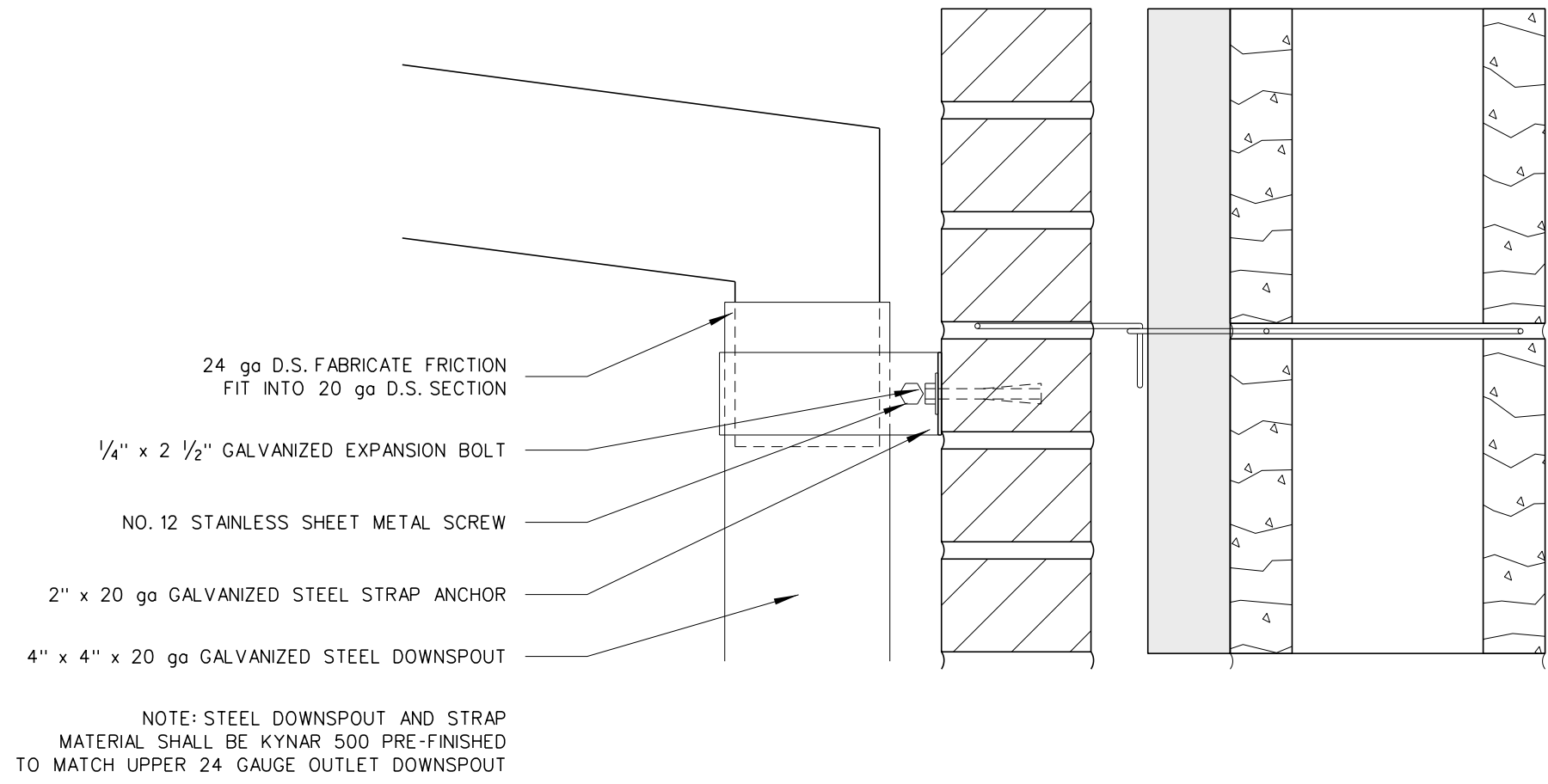


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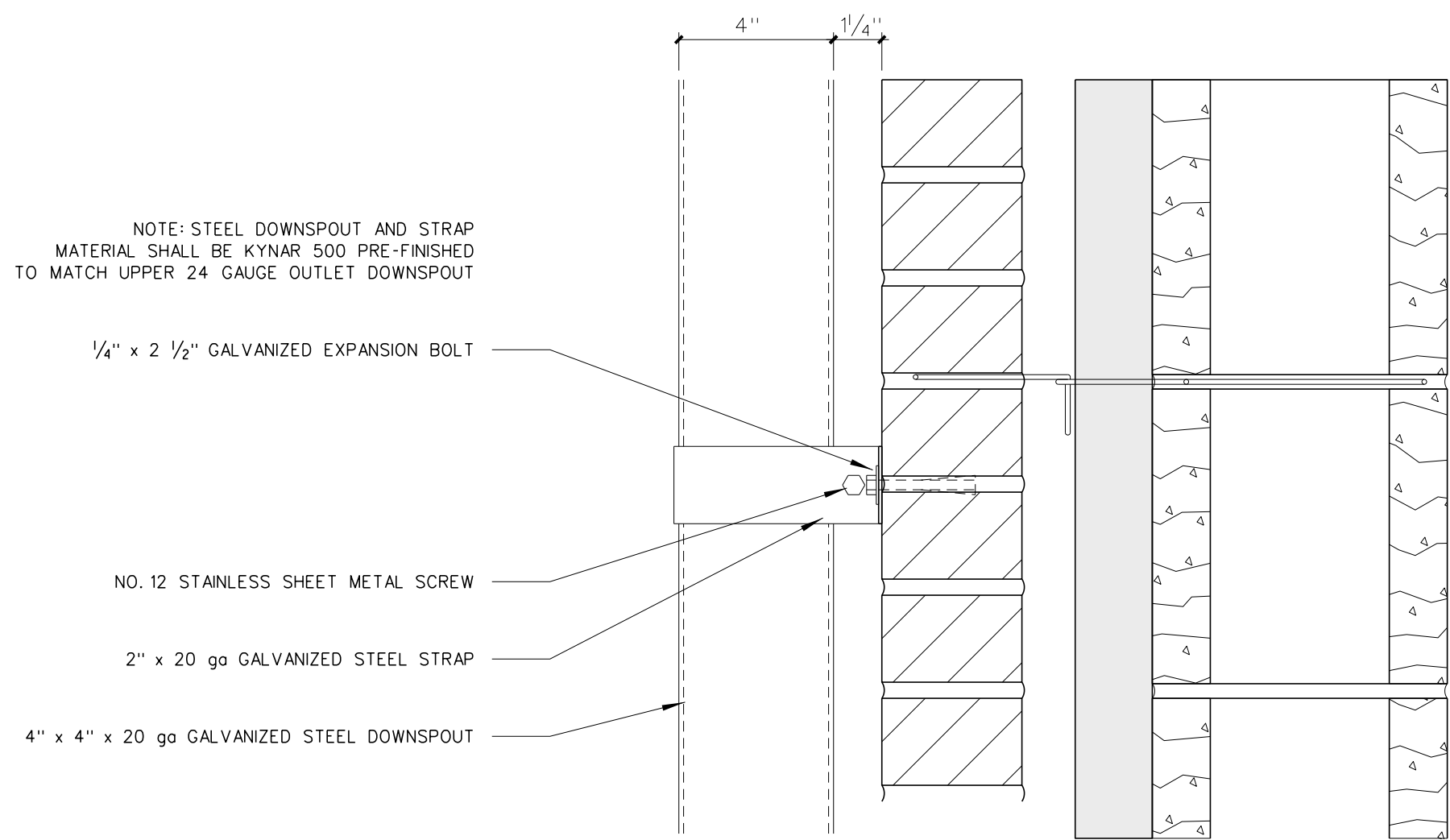
Project No.	22502
Date:	7 February 2025
Drawing no.	A 003



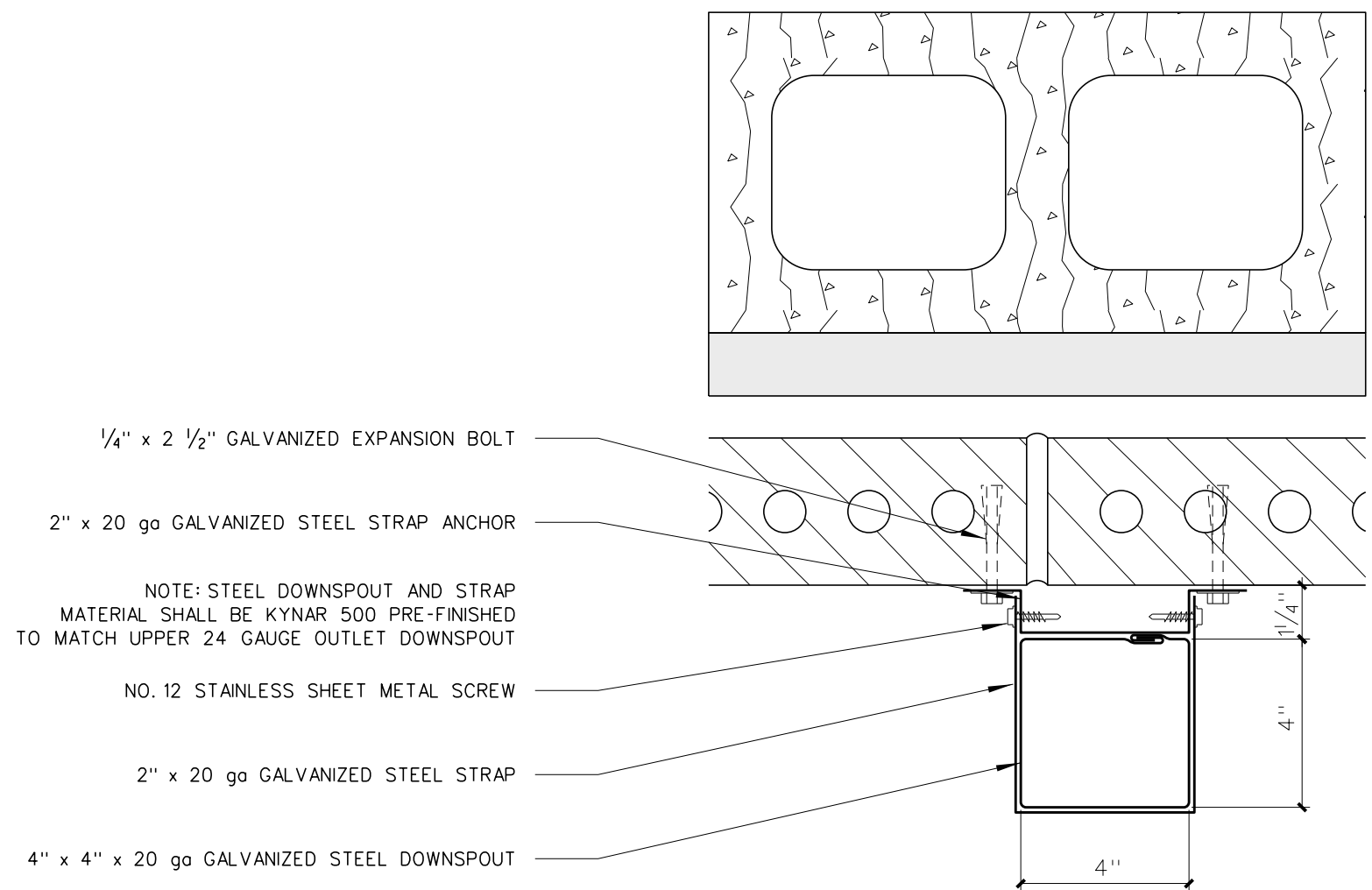
004.7 DETAIL - DOWNSPOUT @ MTL. PANEL
SCALE: 3" = 1'-0"



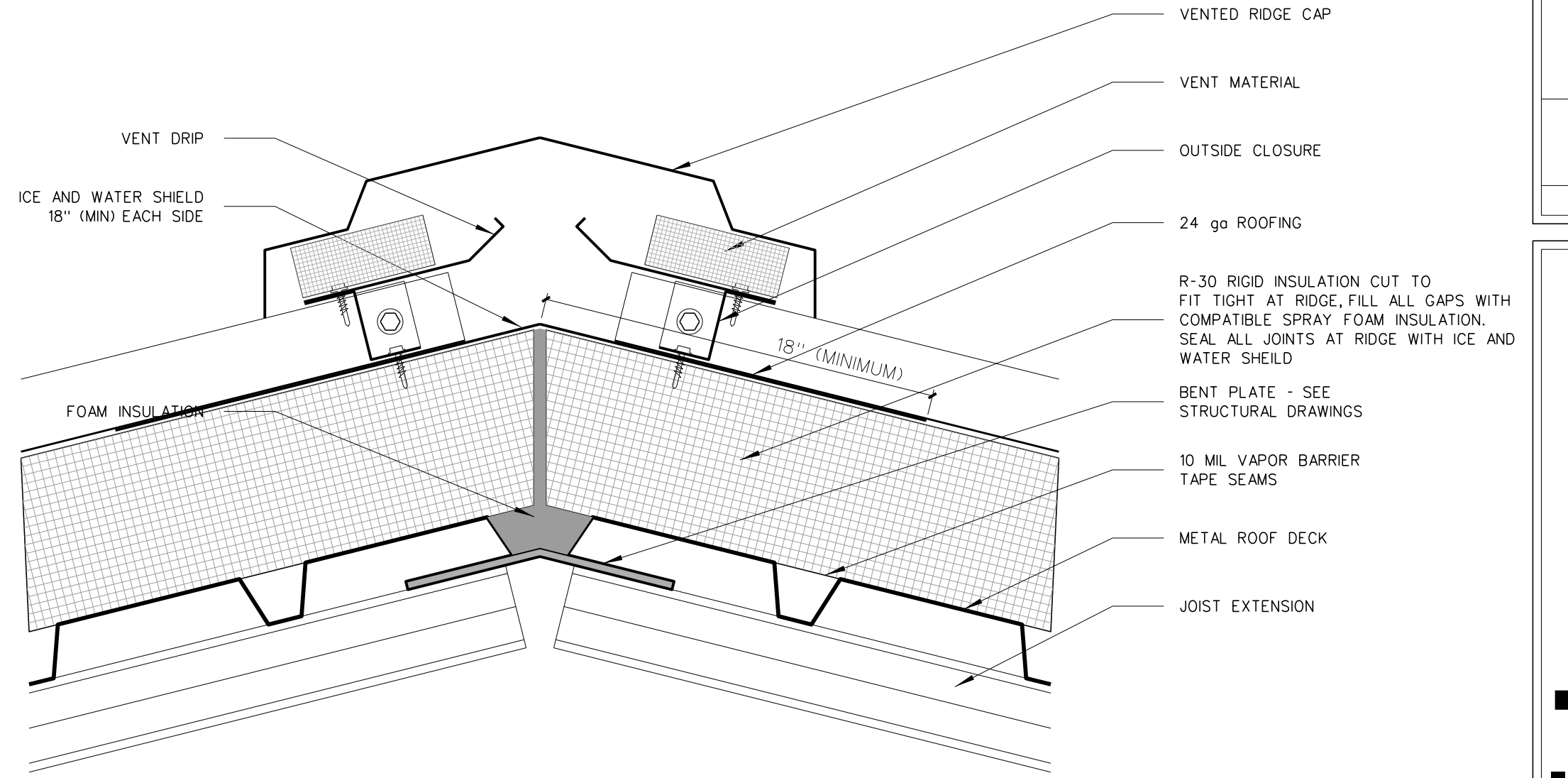
004.6 DETAIL - DOWNSPOUT @ BRICK
SCALE: 3" = 1'-0"



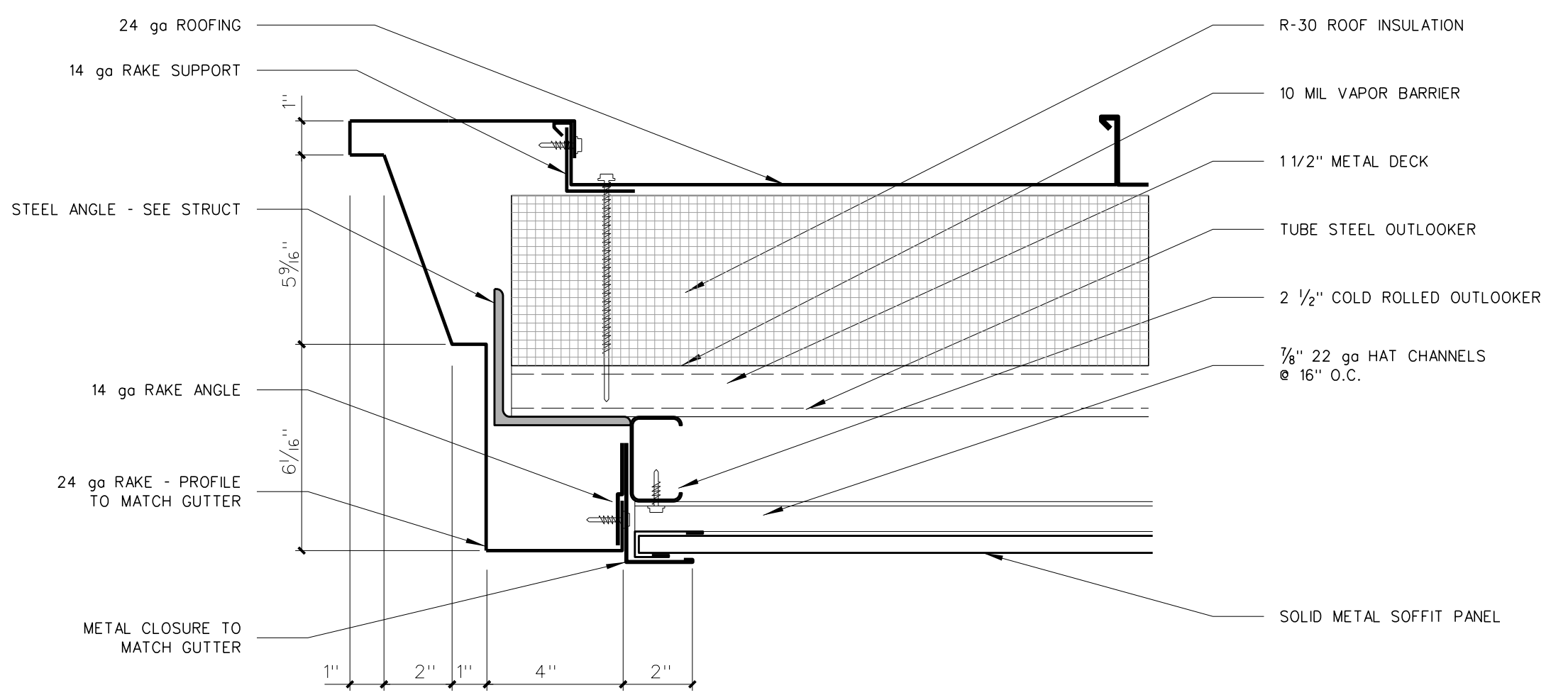
004.5 DETAIL - DOWNSPOUT @ BRICK
SCALE: 3" = 1'-0"



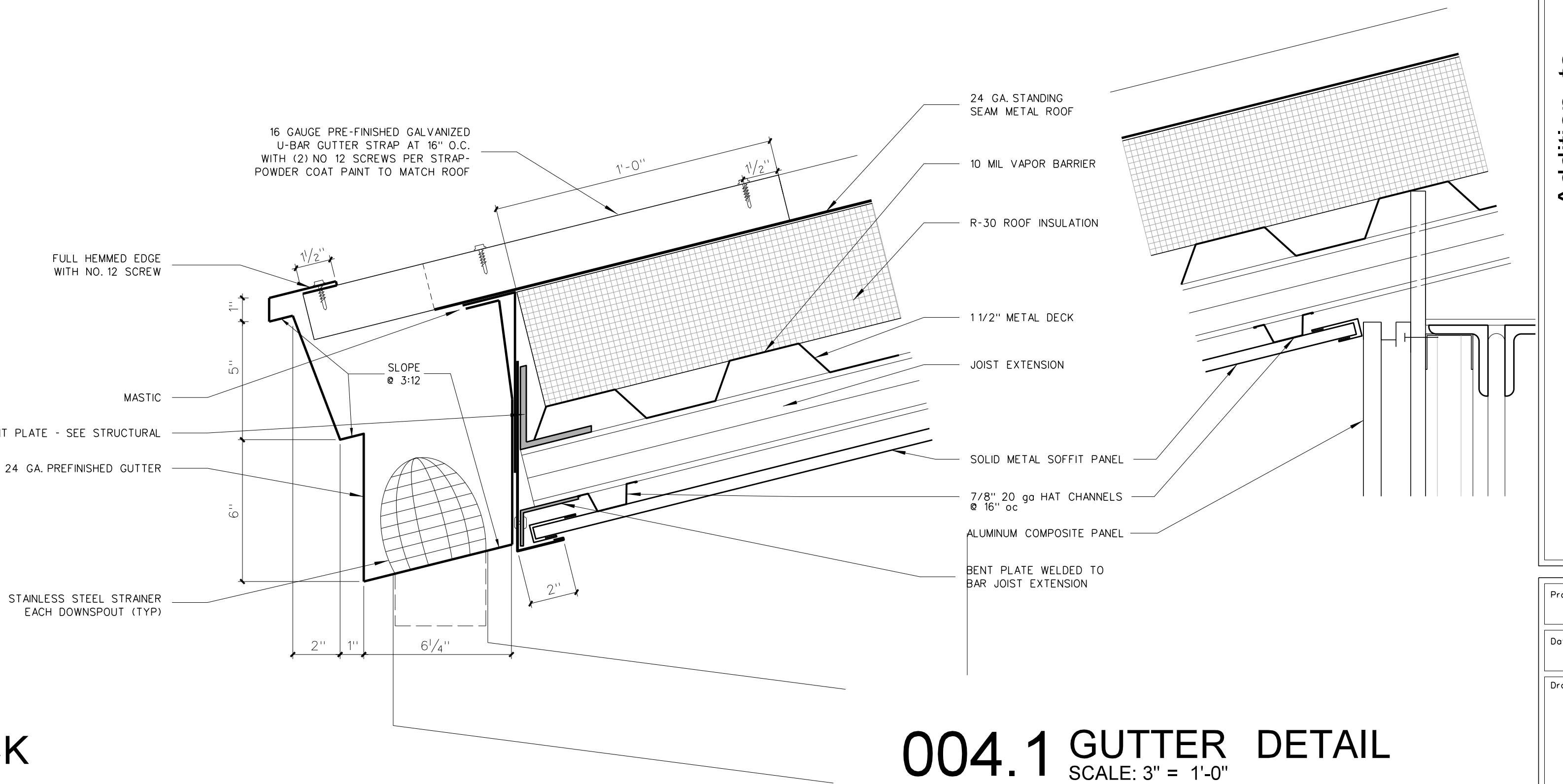
004.4 PLAN DETAIL - DOWNSPOUT @ BRICK
SCALE: 3" = 1'-0"



004.3 RIDGE DETAIL
SCALE: 3" = 1'-0"



004.2 RAKE DETAIL
SCALE: 3" = 1'-0"



004.1 GUTTER DETAIL
SCALE: 3" = 1'-0"

No.	Date	Revision



FINISH SCHEDULE

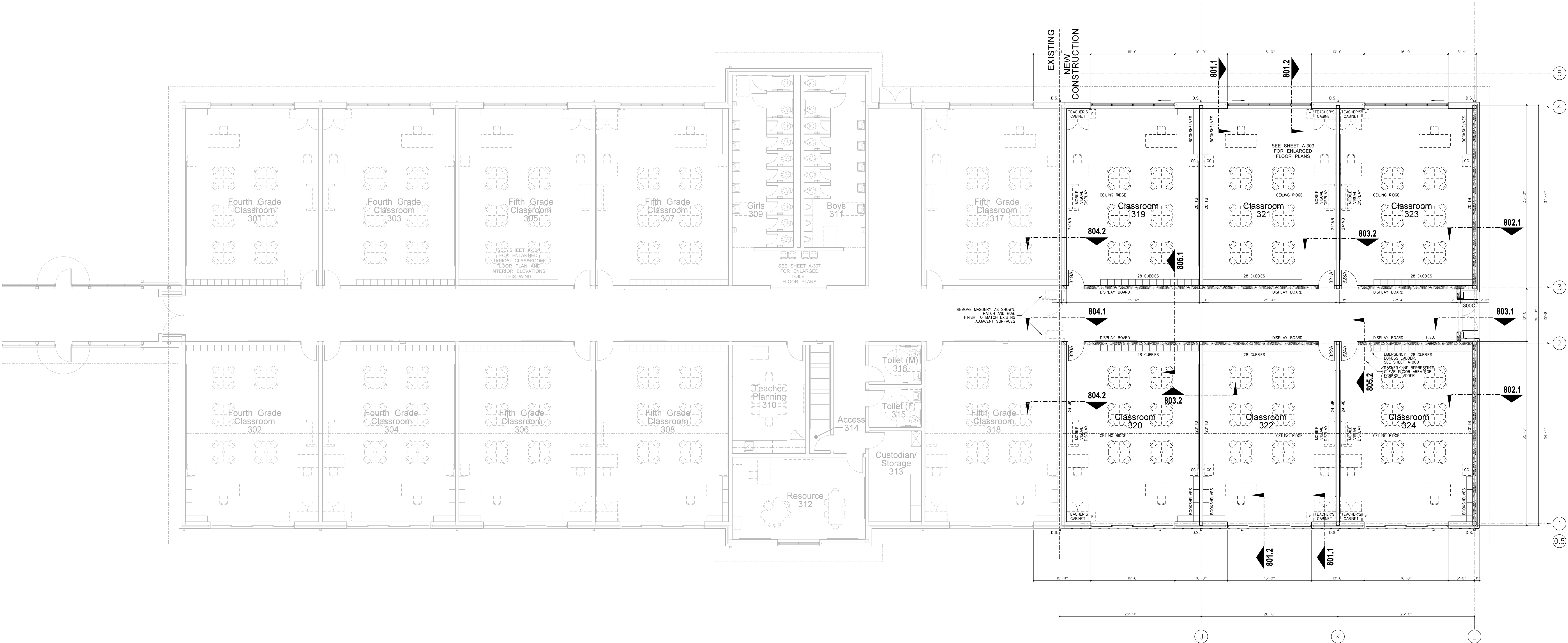
MARK	AREA	FLOOR	BASE	WALLS	CEILING	CLG HEIGHT	REMARKS
300	CORRIDOR	MCT	4" RUBBER	PAINTED CMU	ACOUSTICAL TILE	9'-0"	MATCH EXISTING FINISH COLORS / PATTERNS
319	CLASSROOM	MCT	4" RUBBER	PAINT CMU / DRYWALL	ACOUSTICAL TILE	VARIES	MATCH EXISTING FINISH COLORS / PATTERNS
320	CLASSROOM	MCT	4" RUBBER	PAINT CMU / DRYWALL	ACOUSTICAL TILE	VARIES	MATCH EXISTING FINISH COLORS / PATTERNS
321	CLASSROOM	MCT	4" RUBBER	PAINT CMU / DRYWALL	ACOUSTICAL TILE	VARIES	MATCH EXISTING FINISH COLORS / PATTERNS
322	CLASSROOM	MCT	4" RUBBER	PAINT CMU / DRYWALL	ACOUSTICAL TILE	VARIES	MATCH EXISTING FINISH COLORS / PATTERNS
323	CLASSROOM	MCT	4" RUBBER	PAINT CMU / DRYWALL	ACOUSTICAL TILE	VARIES	MATCH EXISTING FINISH COLORS / PATTERNS
324	CLASSROOM	MCT	4" RUBBER	PAINT CMU / DRYWALL	ACOUSTICAL TILE	VARIES	MATCH EXISTING FINISH COLORS / PATTERNS

NOTES

- 1
- OVERHEAD PLATFORM AND ACCESS AREAS: PAINT STEEL STAIRS AND RAILS AS SPECIFIED AND PROVIDE (2) COATS GRAY TINT GLOSS POLYURETHANE FLOOR SEALER AS SPECIFIED FOLLOWING FINAL CLEAN
- 2
- GYPBOARD CEILINGS AND BULKHEADS: PAINT FLAT WHITE LATEX, NO TEXTURE, USE STRAIGHT CORNER BEADS, NO BULLNOSE

WALL LEGEND	
	12" CMU WALL
	8" CMU WALL
	6 CMU WALL
	8" METAL STUD WALL WITH GYPBOARD EACH SIDE WITH SOUND ATTENUATION BATTS
	6" METAL STUD WALL WITH GYPBOARD EACH SIDE WITH SOUND ATTENUATION BATTS
	3 5/8" METAL STUD WALL WITH GYPBOARD EACH SIDE WITH SOUND ATTENUATION BATTS
	SMOKE TIGHT CONSTRUCTION WALLS AND CEILING
	ONE HOUR RATED FIRE BARRIER (PRIORITY 5 - LOWEST)
	ONE HOUR FIRE AND SMOKE BARRIER (PRIORITY 4)
	TWO HOUR RATED FIRE BARRIER (PRIORITY 3)
	TWO HOUR RATED FIRE AND SMOKE BARRIER (PRIORITY 2)
	THREE HOUR RATED FIRE AND SMOKE BARRIER (PRIORITY 1 - HIGHEST)

ABBREVIATIONS	
CB	CHALKBOARD
MB	MARKERBOARD
VDB	VISUAL DISPLAY MONITOR
MVDM	MOBILE VISUAL DISPLAY MONITOR
TB	TACK BOARD
BK	BOOKCASE
CU	CUBBIES
IAWB	INTERACTIVE WHITE BOARD
VM	FLAT SCREEN T.V.
MT	METAL THRESHOLD W/ 1/2" MAX. LIP
RT	RUBBER TRANSITION W/ 1/2" MAX. LIP
FEC	FIRE EXTINGUISHER CABINET
C.J.	CONTROL JOINT
E.J.	EXPANSION JOINT
TD	TRAVEL DISTANCE
SEE SHEET T-1 FOR ADDITIONAL ABBREVIATIONS	



301.1 FLOOR PLAN: 300 UNIT ADDITION
SCALE: 1/8" = 1'-0"

Revision	
No.	Date

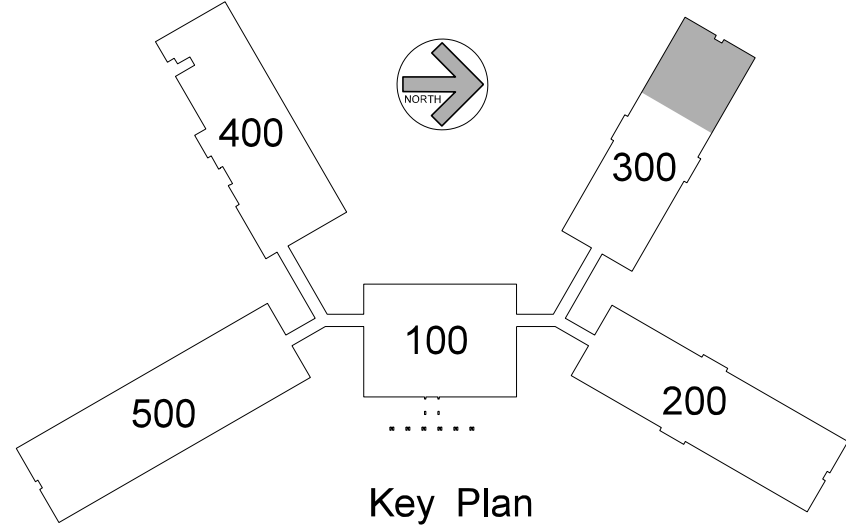
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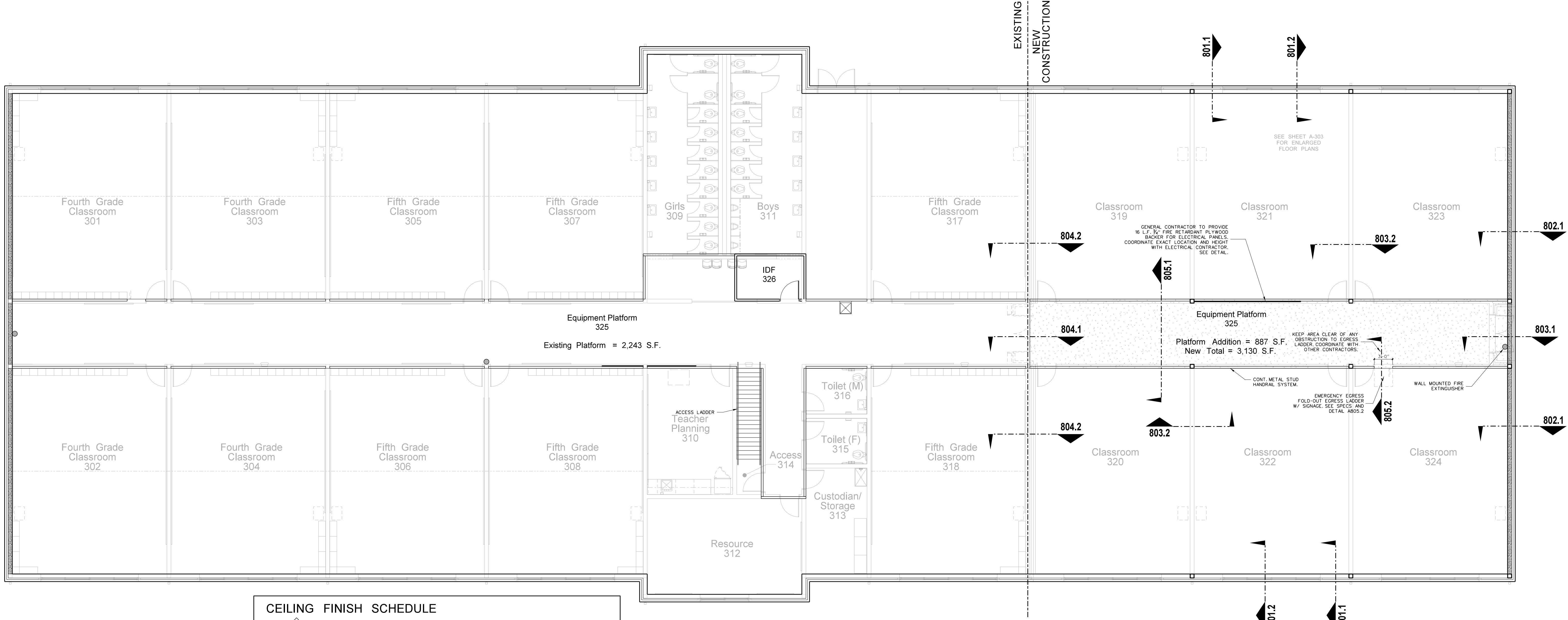
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Thanksgiving Elementary School
Johnston County Schools
Lynch Road / Johnston County / North Carolina

Project No.
22502

Date:
7 February 2025

Drawing no.
A 301





CEILING FINISH SCHEDULE

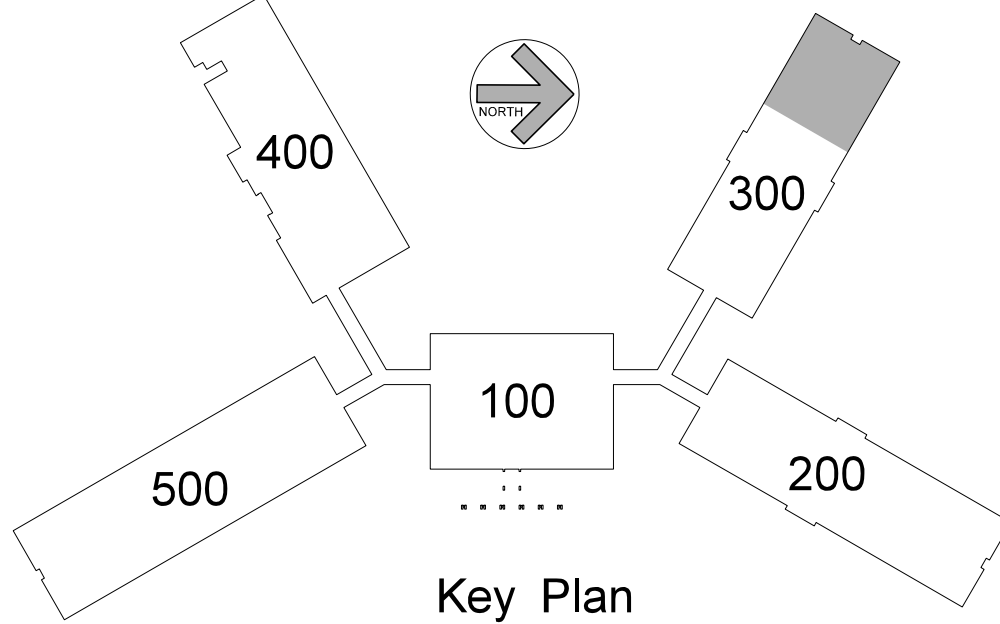
- TYPE **1** 24"x24"x 5/8" ROCKFON ARTIC 600 SQUARE LAY-IN / CHICAGO METALLIC 200 SNAP GRID 15/16".
- TYPE **2** 24"x24"x 5/8" ROCKFON ARTIC 600 SQUARE REGULAR / CHICAGO METALLIC 200 SNAP GRID 15/16".
- TYPE **3** 24"x24"x 5/8" VINYL FACED GYPSUM PANEL, WHITE STIPPLE FINISH, AL PRELUDE PLUS GRID.
- TYPE **4** 5/8" MOISTURE RESISTANT GYPSUM BOARD WITH HAT CHANNELS/"C" CHANNELS FRAMING SYSTEM
- TYPE **5** 5/8" FIRECODE GYPSUM BOARD WITH HAT CHANNELS/"C" CHANNELS FRAMING SYSTEM, SMOKE RESISTANT CONSTRUCTION.
- TYPE **6** ACOUSTICAL SPRAY MATERIAL - SEE ROOM FINISH SCHEDULE FOR COLOR.
- TYPE **7** EXTERIOR INSULATION AND FINISH SYSTEM OVER 5/8" DENS-GLASS SHEATHING.
- NOTE:
(1) PROVIDE TYPE 1 CEILING UNLESS OTHERWISE NOTED.
(2) PROVIDE 24" x 24" CEILING ACCESS DOOR IN EACH SPACE WITH DRYWALL CEILING.

GENERAL NOTES FOR UTILITY PLATFORMS:

- (1) GENERAL CONTRACTOR TO PROVIDE (2) COATS CLEAR GLOSS POLYURETHANE FLOOR SEALER FOLLOWING FINAL CLEAN AND APPROVAL OF ARCHITECT.
- (2) CMU WALLS WHERE INDICATED SHALL BE RUN SOLID TO BOTTOM OF DECK, GROUTED SOLID TO DECK, ALL OTHER CMU WALLS, UNLESS OTHERWISE NOTED, SHALL BE RUN TO FULL BLOCK COURSE ABOVE CEILING. UNBRACED SECTIONS OF LESS-THAN-FULL-HEIGHT WALLS SHALL BE BRACED TO ROOF. SEE STRUCTURAL DRAWINGS.
- (3) CMU WALL INTERSECTIONS SHALL BE BONDED WITH HOT DIPPED GALVANIZED HARDWARE, CLOTH EACH COURSE, AND PREFORMED "T" HORIZONTAL REINFORCING AS SPECIFIED AT 16" ON CENTER.
- (4) PROVIDE WALL CONTROL AND EXPANSION JOINTS WHERE SHOWN AND DETAILED OR IN PRE-APPROVED, ALTERNATING LOCATIONS 32" ON CENTER MAXIMUM, PROVIDE IN ONE SIDE OF EACH OPENING IN MASONRY WALLS; BOTH SIDES IN OPENINGS WITH WIDTH EXCEEDING 5'-0". SEE DETAIL.
- (5) PROVIDE WALL EXPANSION JOINTS AT POINTS AND INTERSECTIONS WHERE INDICATED, 1/2" WIDE, FILLED WITH EXPANSION JOINT MATERIAL, AND CAULK, WITH BACKER ROD.
- (6) ALL 45° CMU WALL BENDS SHALL BE CONSTRUCTED WITH SPECIAL PRECAST UNITS.
- (7) INTERIOR CMU JOINTS SHALL BE TOOLED CONCAVE.

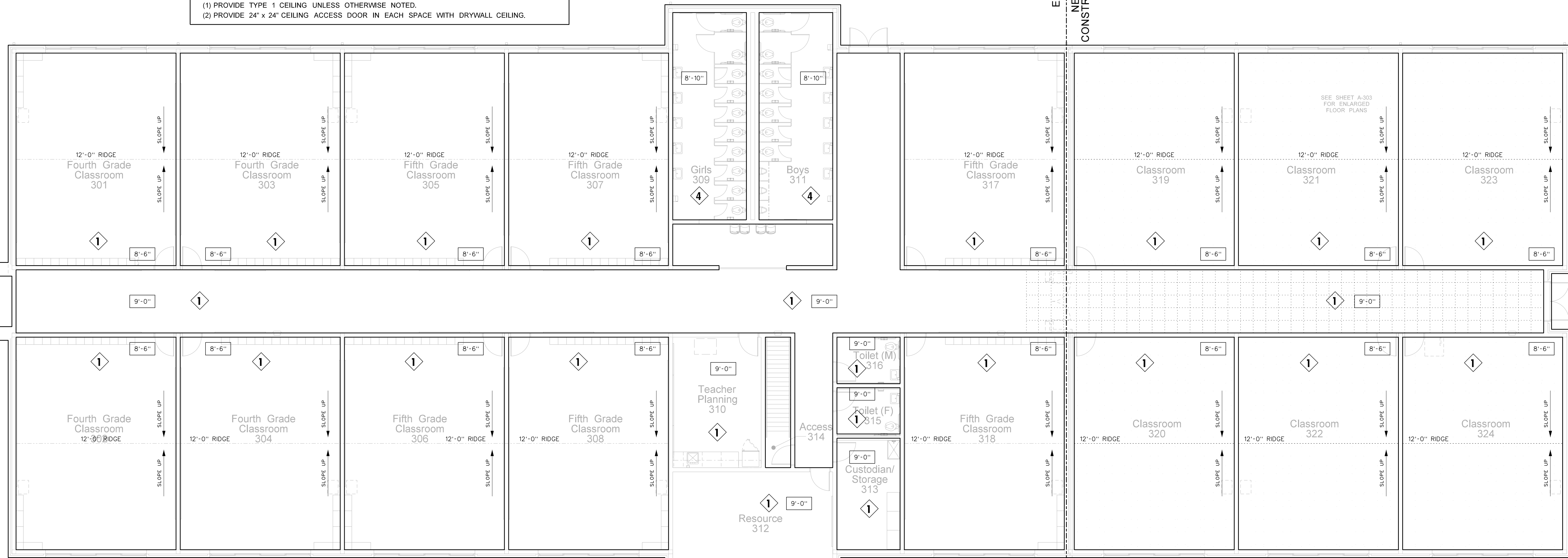
302.2 UTILITY PLATFORM PLAN

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



LEGEND - REFLECTED CEILING PLAN

- CEILING TYPE - SEE CEILING FINISH SCHEDULE
-
- SLOPED CEILING
-
-
- 2 x 2 ACOUSTICAL TILE AND GRID
- MOISTURE RESISTANT GYPSUM BOARD CEILING
- EXPOSED STRUCTURE
- EIFS SOFFIT
- EIFS SOFFIT
- DROP-IN TRAY FOR VIDEO MONITOR CEILING BRACKET
- DROP-IN TRAY FOR LCD PROJECTOR CEILING BRACKET
- FLUORESCENT LIGHT FIXTURE
- RECESSED LIGHT FIXTURE
- SURFACE MOUNTED LIGHT FIXTURE
- WALL MOUNTED LIGHT FIXTURE
- CEILING MOUNTED TRACK LIGHTING
- SPEAKER
- SUPPLY AIR GRILLE
- RETURN AIR GRILLE
- EXHAUST FAN
- SMOKE SENSOR
- SECURITY CAMERA



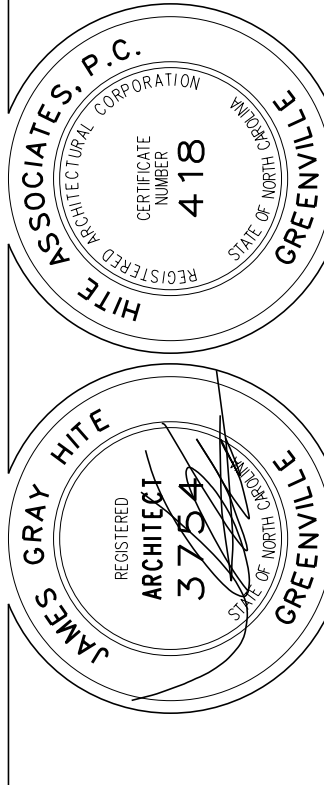
302.1 REFLECTED CEILING PLAN

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

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302

D FIFTH GRADE CLASSROOM 319

B FIFTH GRADE CLASSROOM 319

A CORRIDOR 300 DISPLAY BOARD

C FIFTH GRADE CLASSROOM 319

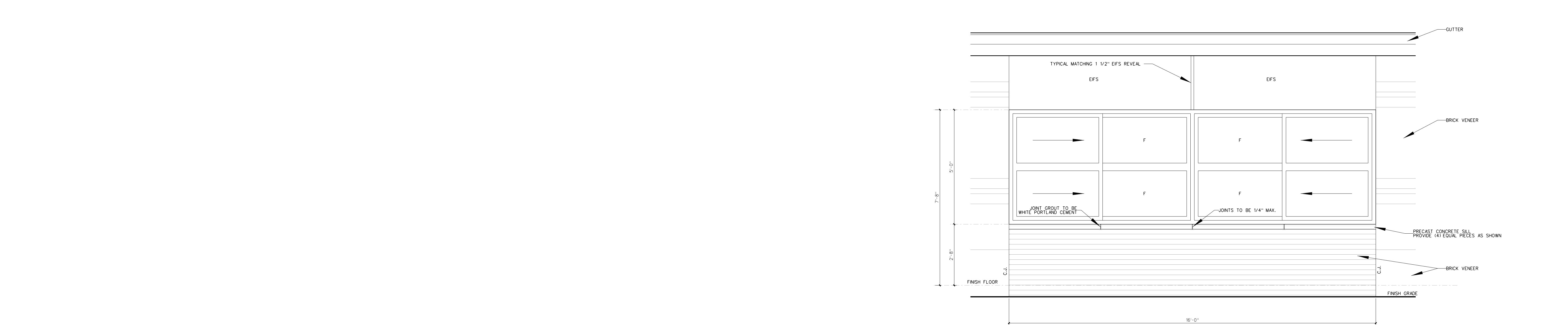
A FIFTH GRADE CLASSROOM 319

NOTE: INSTALL (1) PENCIL SHARPENER (SEE DETAIL 907.3)
TO BE LOCATED BY OWNER

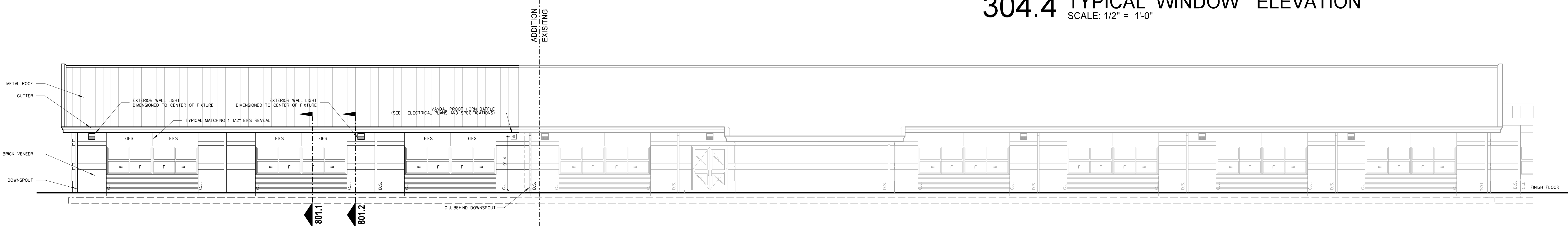
303.2 INTERIOR ELEVATIONS

303.1 ENLARGED FLOOR PLAN

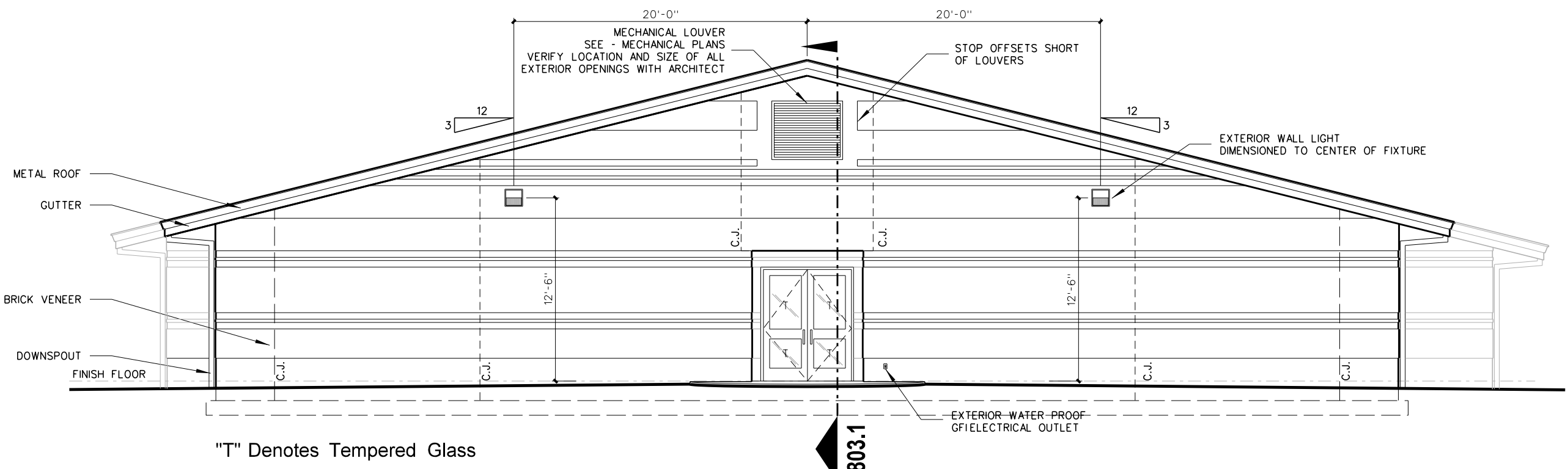
SCALE: 3/8" = 1'-0"



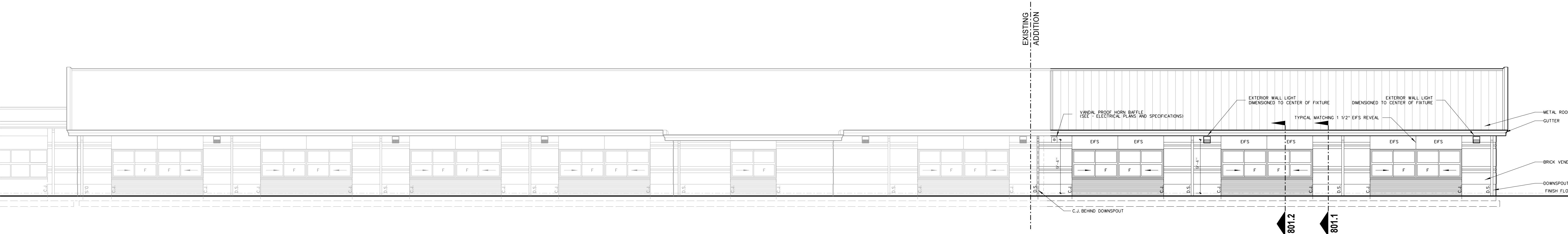
304.4 TYPICAL WINDOW ELEVATION
SCALE: 1/2" = 1'-0"



304.3 300 UNIT - SOUTHWEST ELEVATION
SCALE: 1/8" = 1'-0"

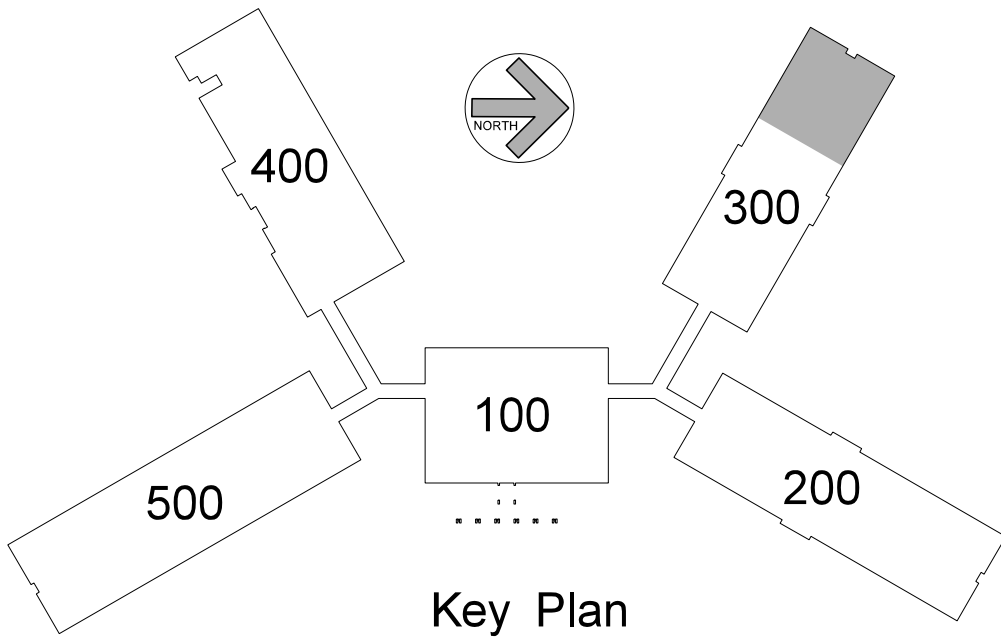


304.2 300 UNIT - NORTHWEST ELEVATION
SCALE: 1/8" = 1'-0"



304.1 300 UNIT - NORTHEAST ELEVATION
SCALE: 1/8" = 1'-0"

NOTE:
GENERAL CONTRACTOR SHALL VERIFY TOP OF FINISH GRADES, TOP OF
OF CONCRETE WALKS AND TOP OF CONCRETE SLABS ADJACENT TO
BUILDING AND ADJUST LOCATION OF THROUGH WALL FLASHING AND WEEPS.



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STATE OF NORTH CAROLINA
JAMES GRAY HITE
REGISTERED ARCHITECT
5154
GREENWIL

STATE OF NORTH CAROLINA
HITE ASSOCIATES, P.C.
REGISTERED PROFESSIONAL CORPORATION
418
GREENWIL

Thanksgiving Elementary School

Johnston County Schools

Lynch Road / Johnston County / North Carolina

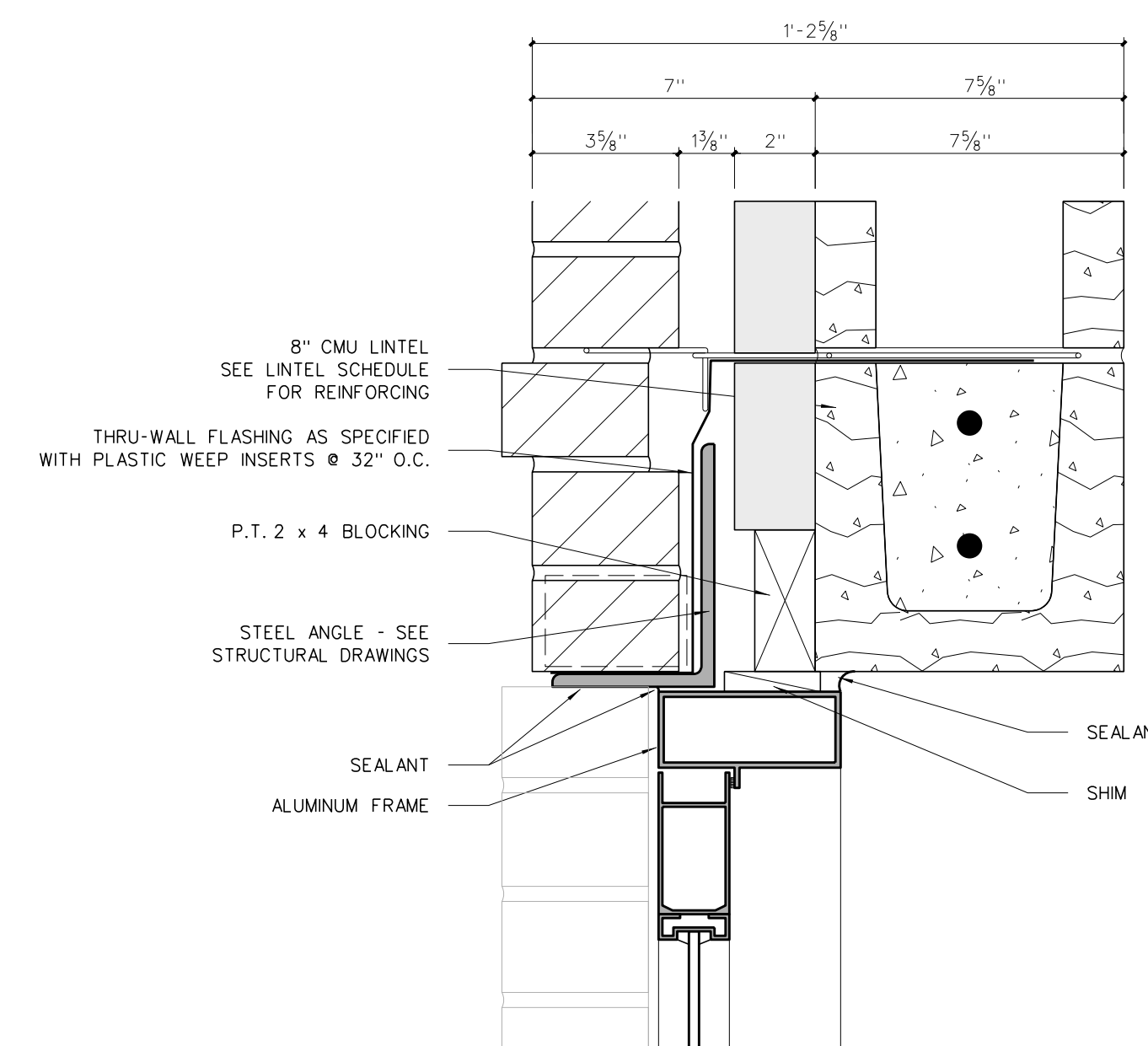
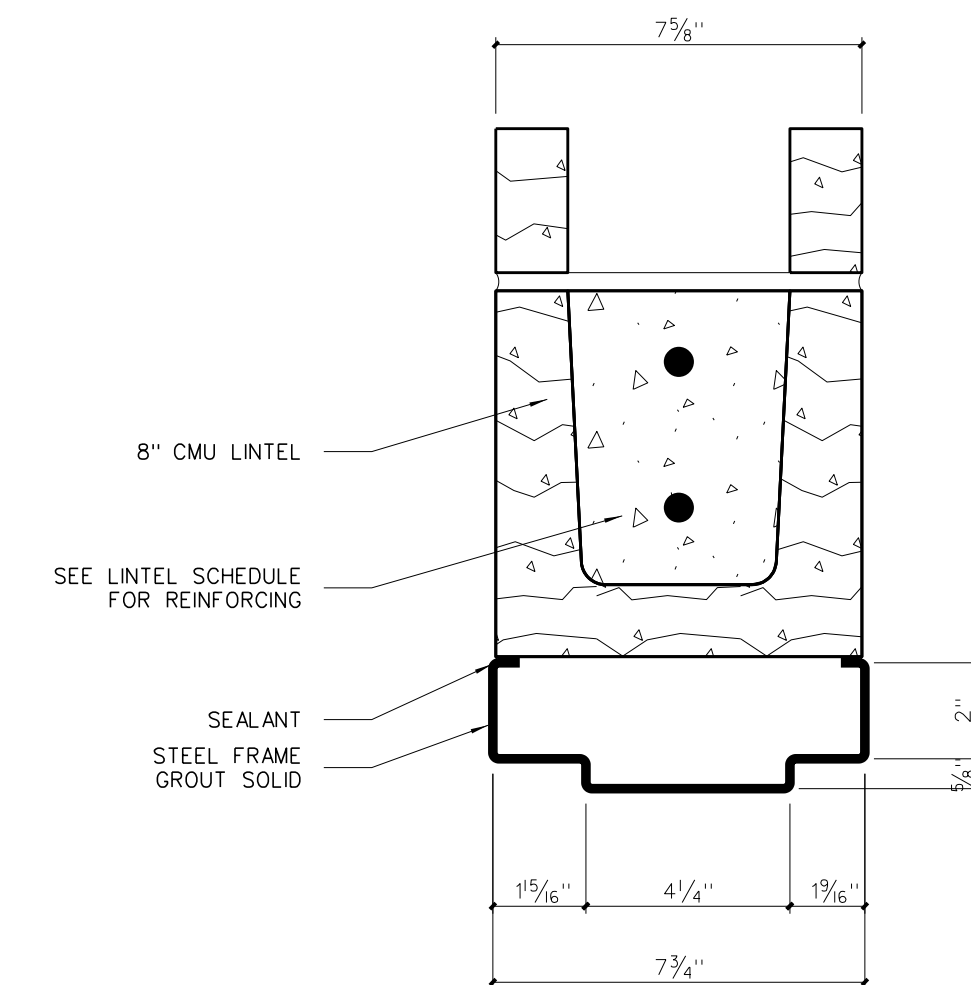
Project No.
22502

Date:
7 February 2025

Drawing no.
**A
304**

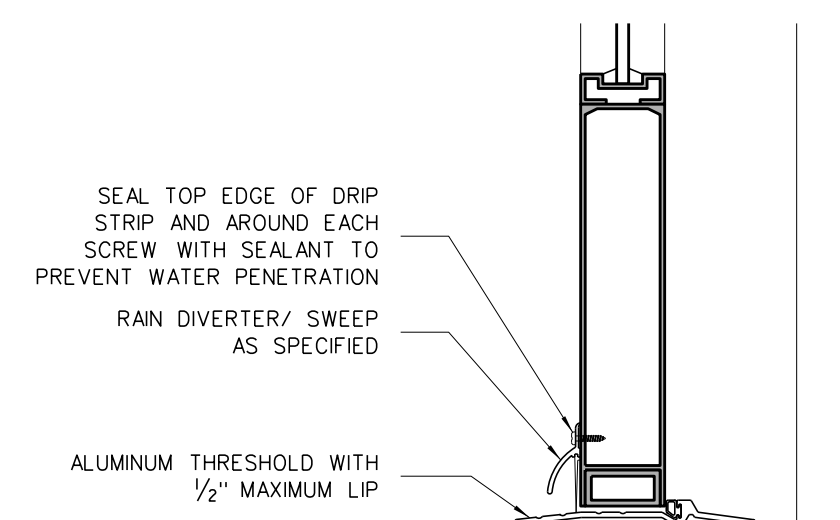
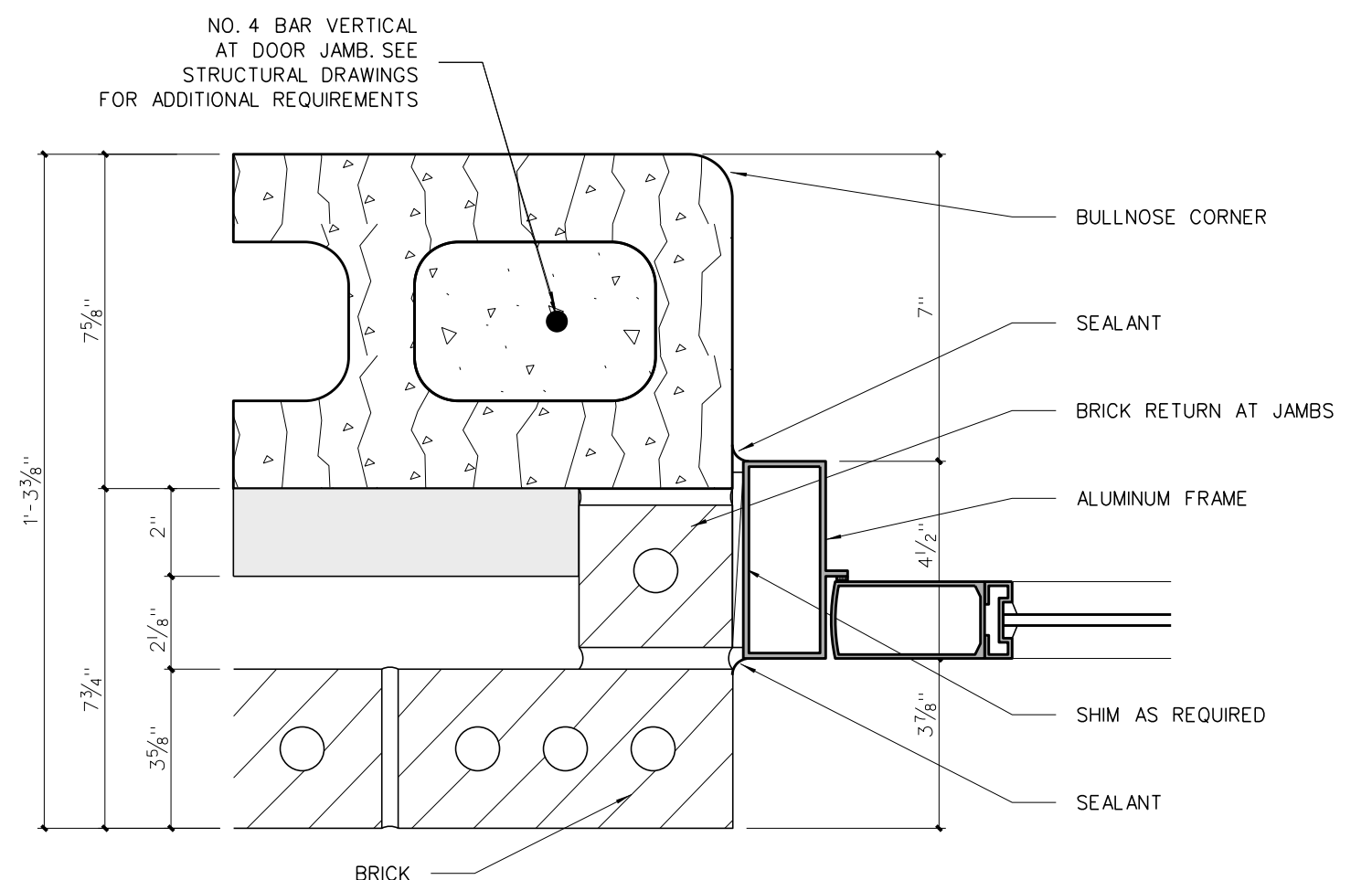
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1	ALL DOORS TO RECEIVE HINGES AS SPECIFIED
2	ALL DOORS TO RECEIVE WALL OR OVERHEAD STOPS TO SUIT CONDITION OF USE. DOORS WITH MAGNETIC HOLD OPENS TO RECEIVE FLOOR STOPS.
3	PROVIDE CLOSERS WITH BACKSTOPS EXTERIOR DOORS AND TO SUIT CONDITION OF USE, ALL CLOSERS TO BE THROUGH-BOLTED
4	ALL STEEL FRAMES TO BE PROVIDED WITH SILENCERS
5	EXTERIOR AND IDF ROOM DOORS TO BE PROVIDED WITH WEATHERSTRIPPING AND THRESHOLDS
6	EXIT DEVICES TO BE PROVIDED WITH CYLINDERS
7	AT PAIRS OF DOORS, PULL SIDE, PROVIDE PULL OR LEVER BOTH SIDES ONLY UNLESS OTHERWISE NOTED
8	ALUMINUM DOORS - SEE SPECIFICATIONS FOR HARDWARE NOT INDICATED ABOVE
9	PROVIDE CYLINDERS FOR KEYED MULLIONS SUPPLIED BY ALUMINUM DOOR SUPPLIER
10	PROVIDE SOLID WOOD BLOCKING FOR DOOR STOPS AND HOLD OPEN DEVICES
11	EXIT DEVICES AT EXTERIOR DOORS TO BE NL WITH PULL
12	EXIT DEVICES AT INTERIOR DOORS TO BE CLASSROOM FUNCTION WITH LEVER
13	PROVIDE 4" WIDE STEEL JAMBS FOR DOORS ABUTTING STEEL COLUMNS AND SPECIAL CONDITIONS AS NOTED



701.4 HEAD

701.2 HEAD

[illegible]

701.5 DOOR THRESHOLD DETAIL

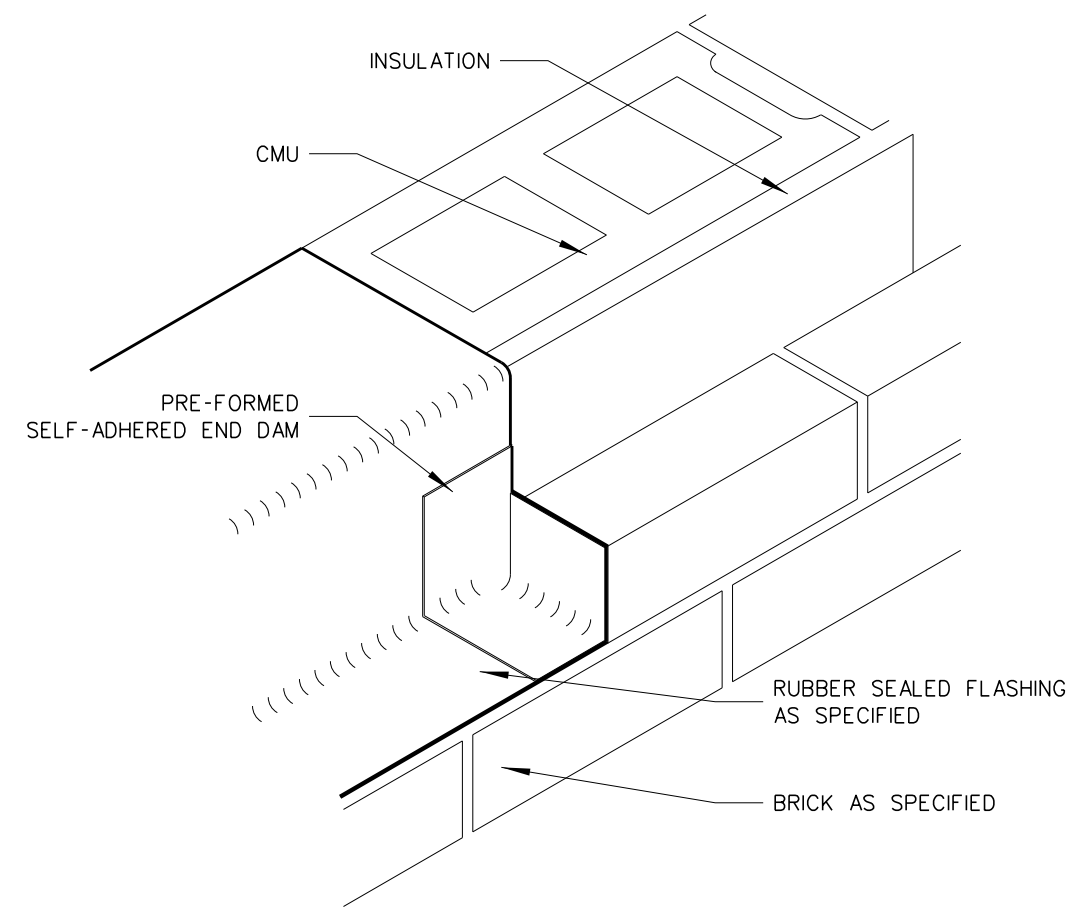
701.3 JAMB

701.1 JAMB

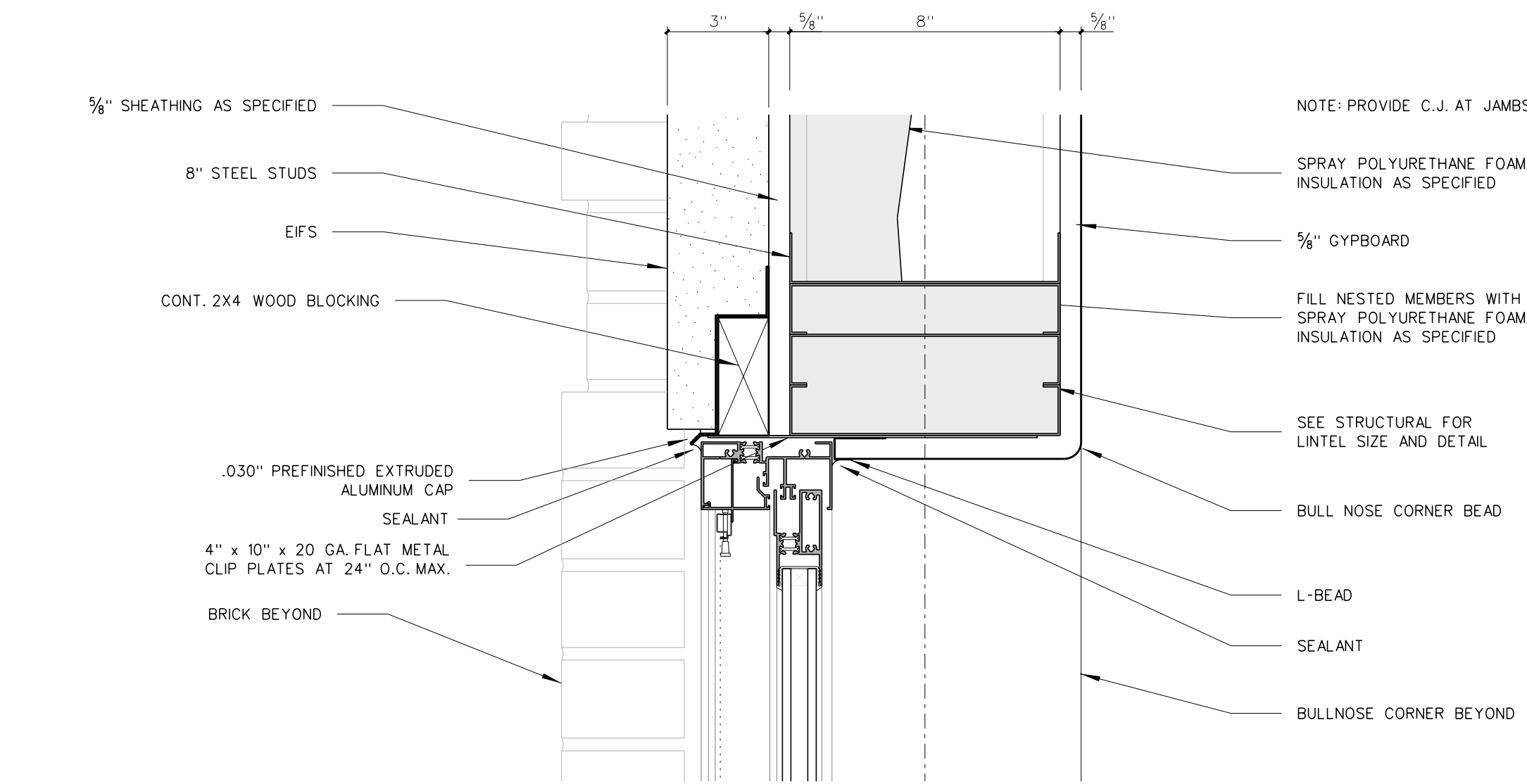
701 DOOR DETAILS

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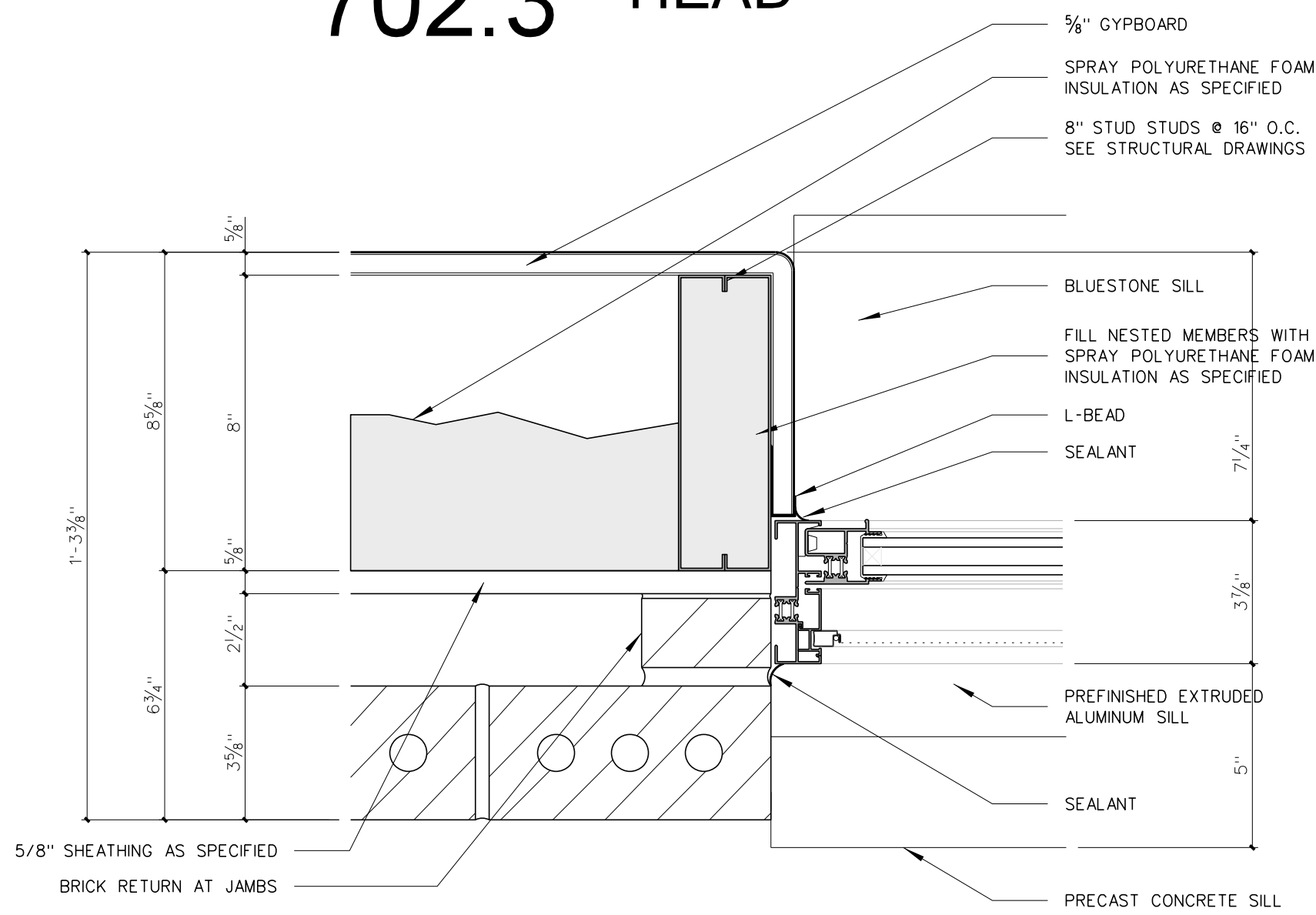
Project No.	22502
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Drawing no.	A 701



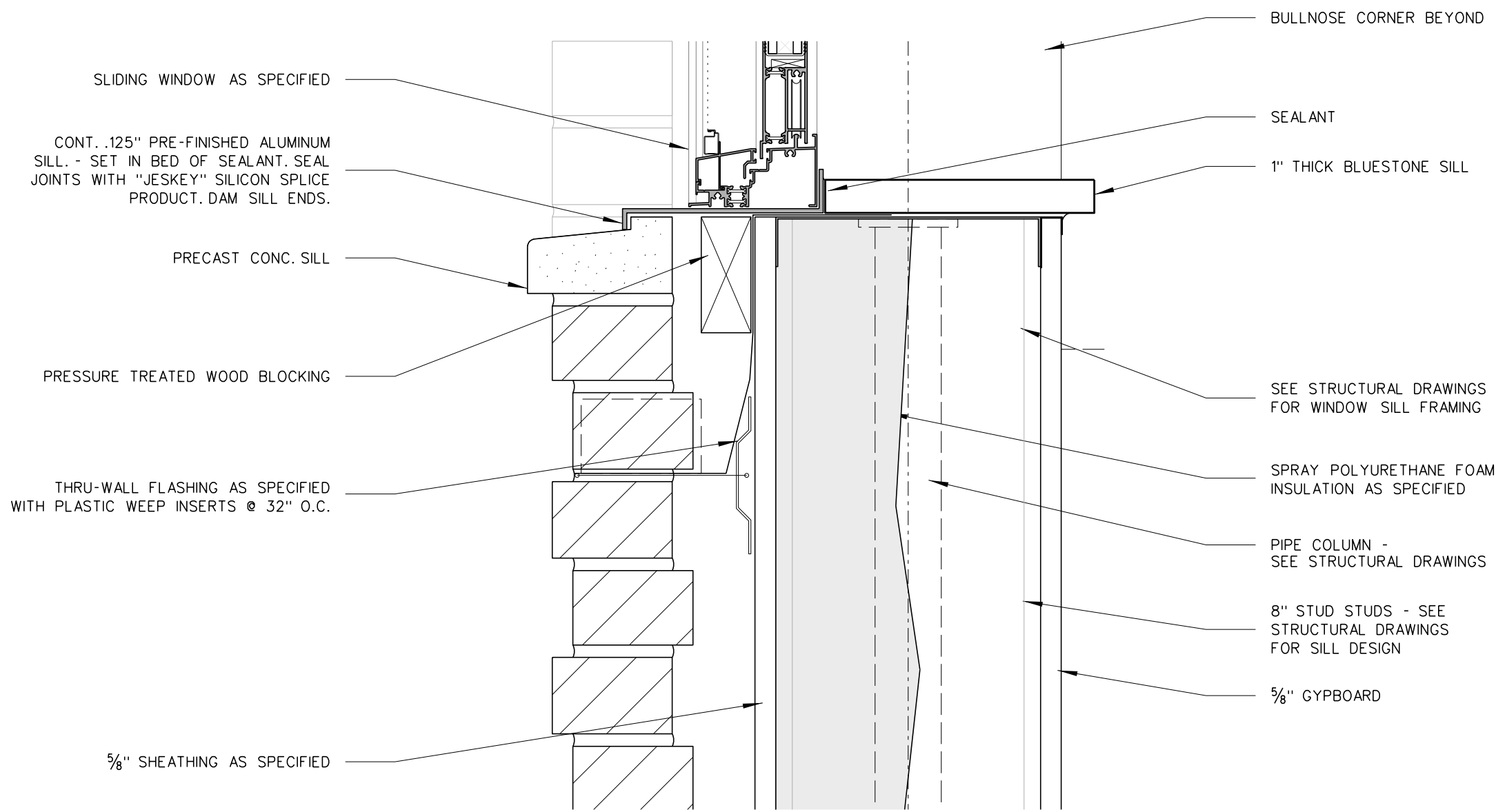
702.4 WINDOW FLASHING DETAILS
SCALE: NONE



702.3 HEAD



702.2 JAMB



702.1 SILL

702 WINDOW DETAILS
SCALE: 3" = 1'-0"

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REGISTERED ARCHITECT
JAMES GRAY HITE
3754
GREENVILLE, NC

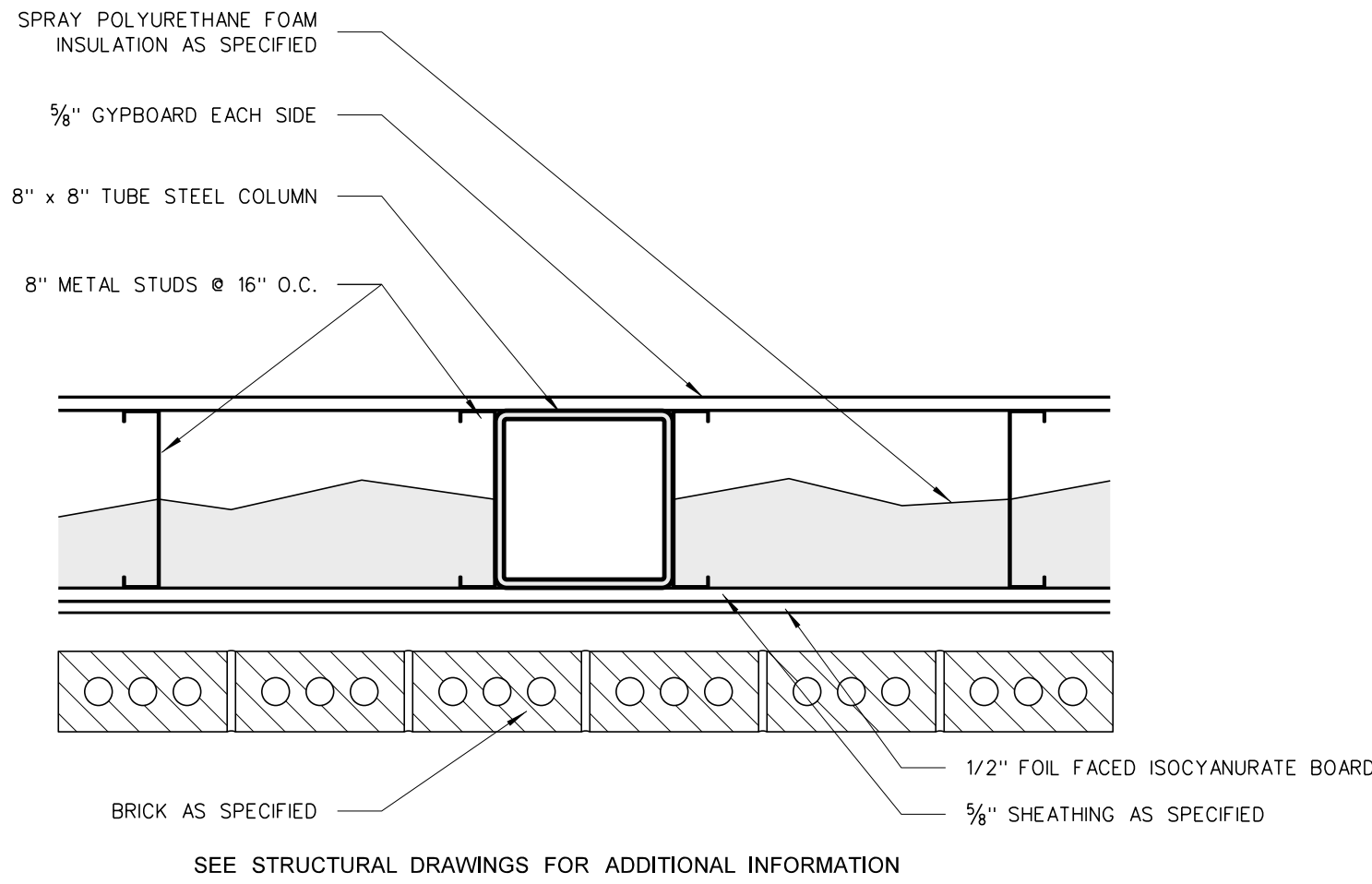
REGISTERED PROFESSIONAL ENGINEER
HITE ASSOCIATES, P.C.
418
GREENVILLE, NC

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Lynch Road / Johnston County / North Carolina

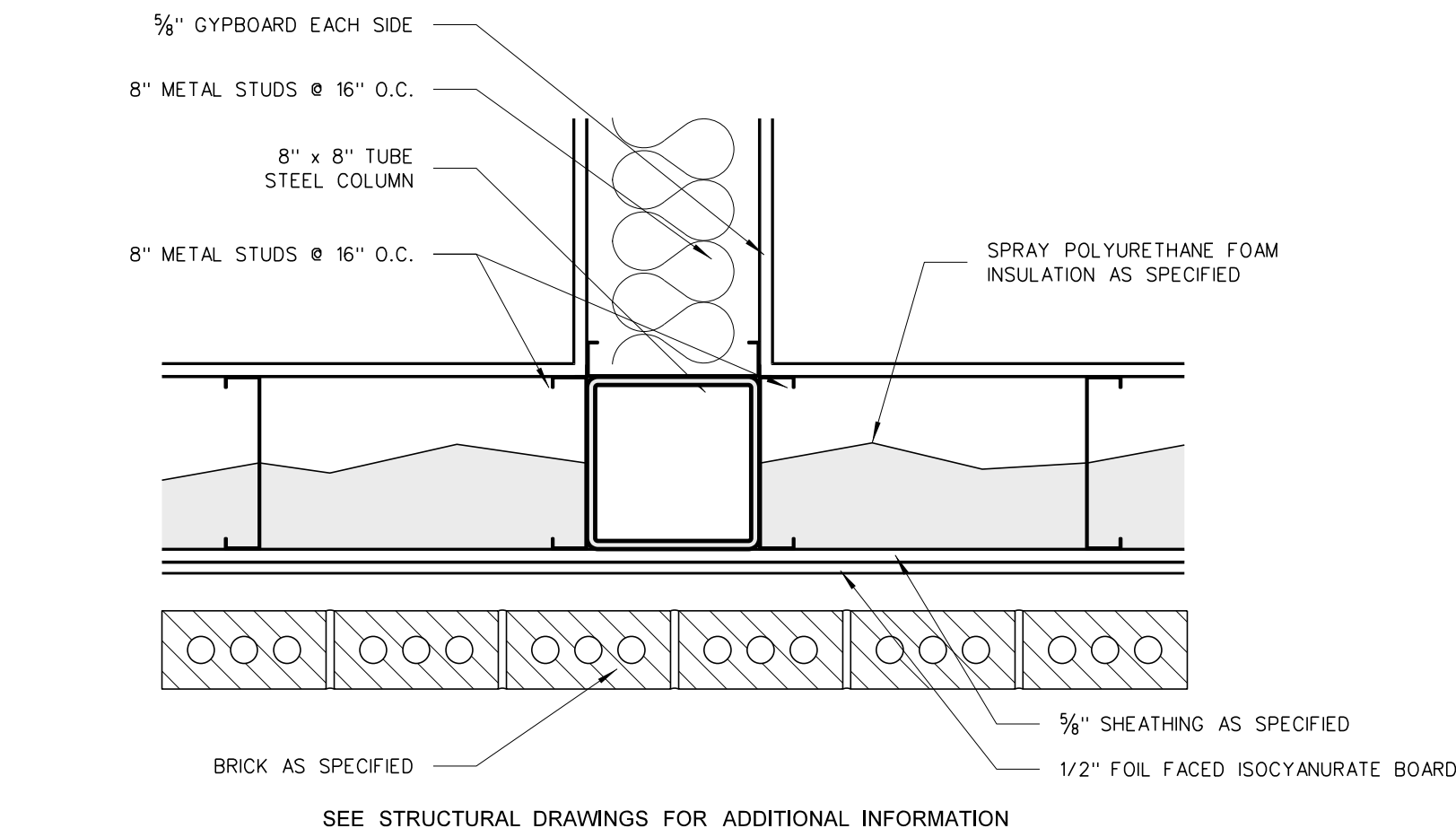
Project No.
22502

Date:
7 February 2025

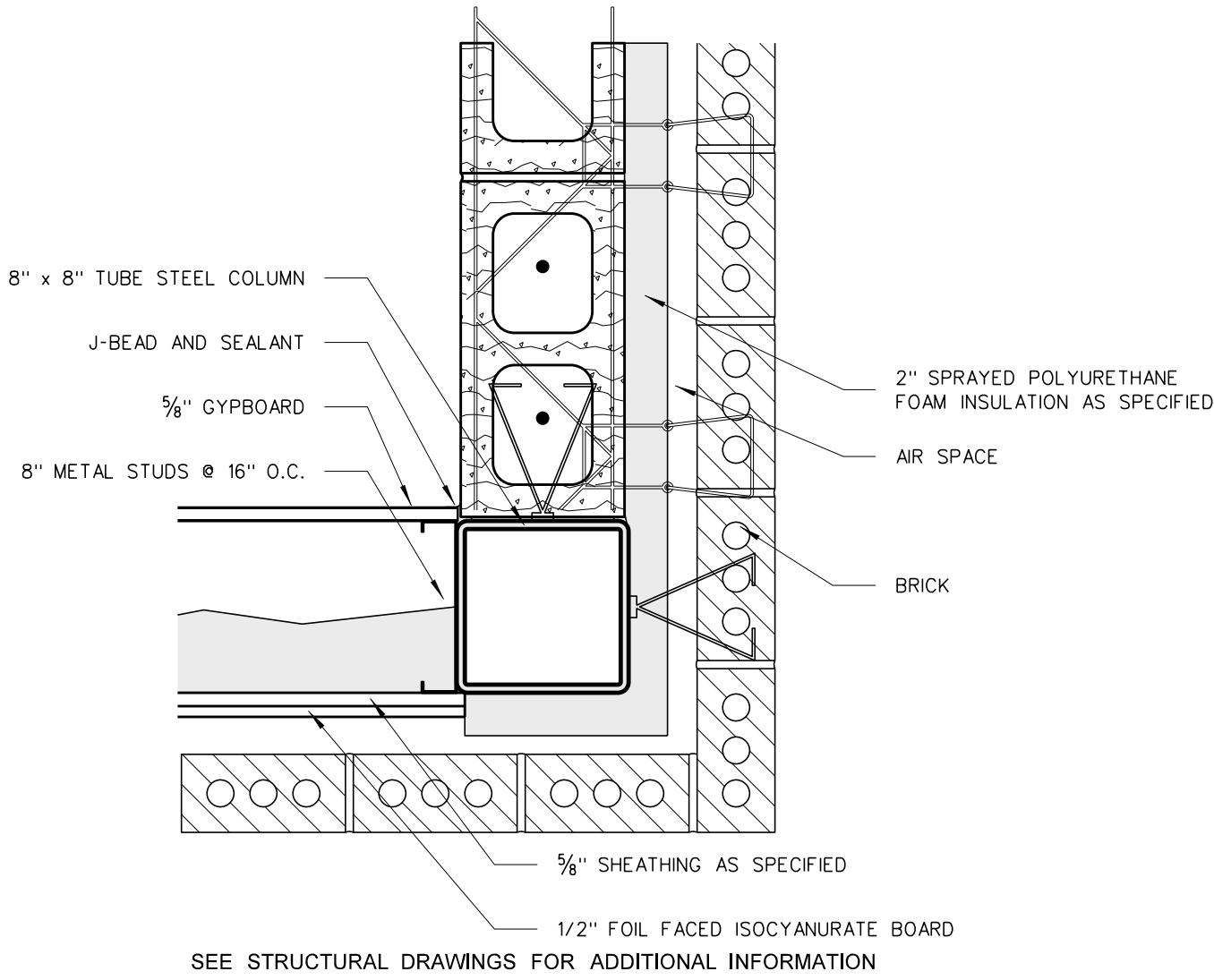
Drawing no.
A
702



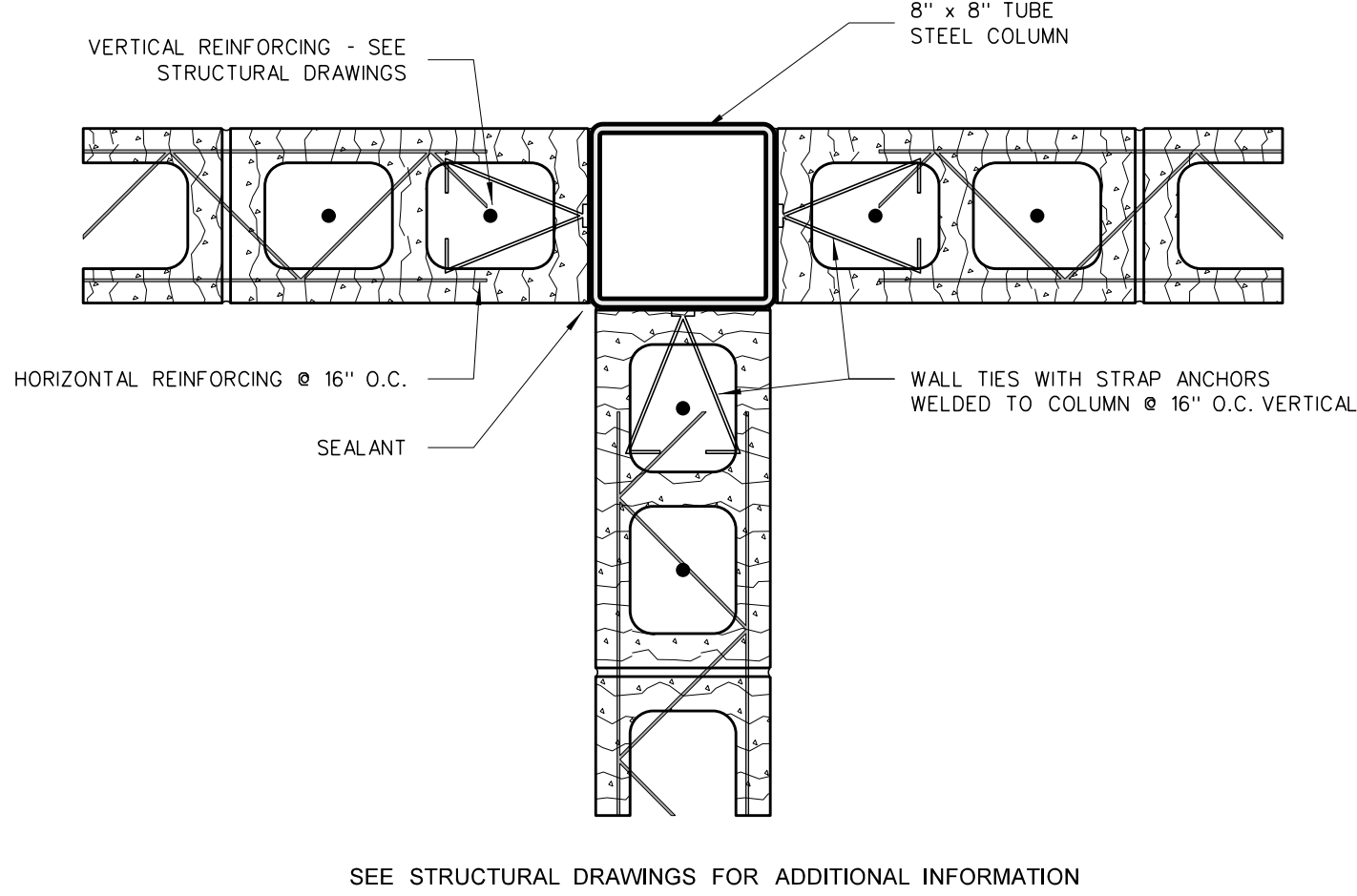
703.3 COLUMN DETAIL



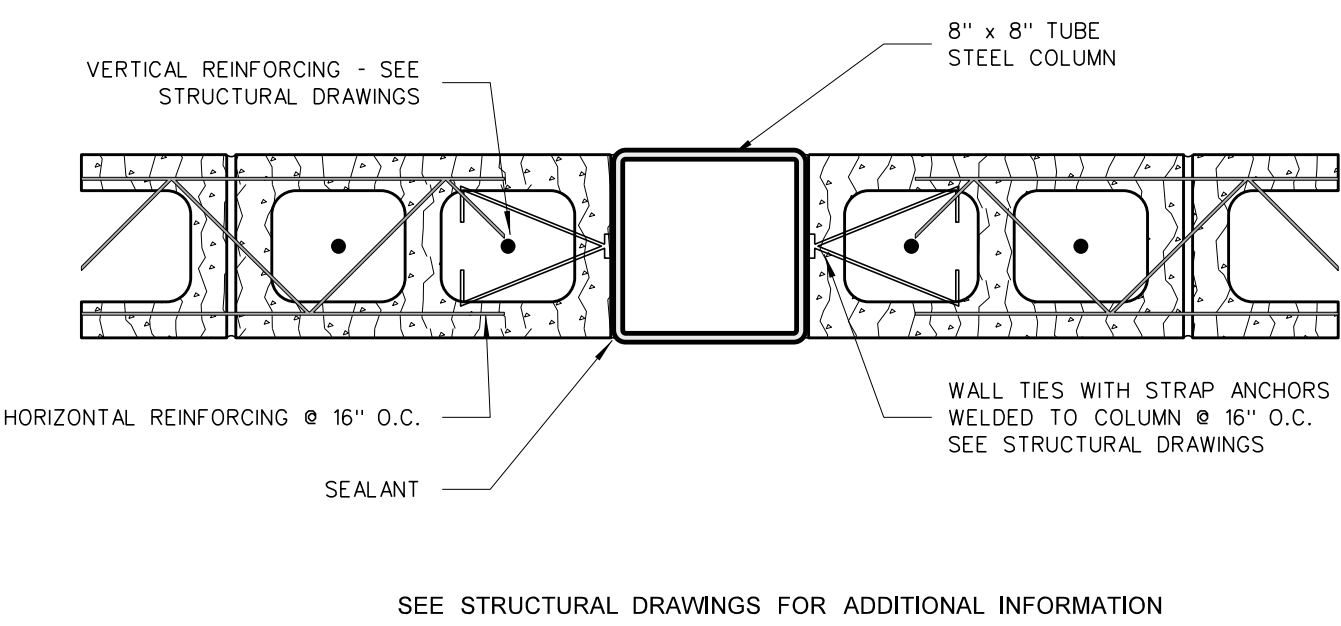
703.2 COLUMN DETAIL



703.1 COLUMN DETAIL



705.5 COLUMN DETAIL

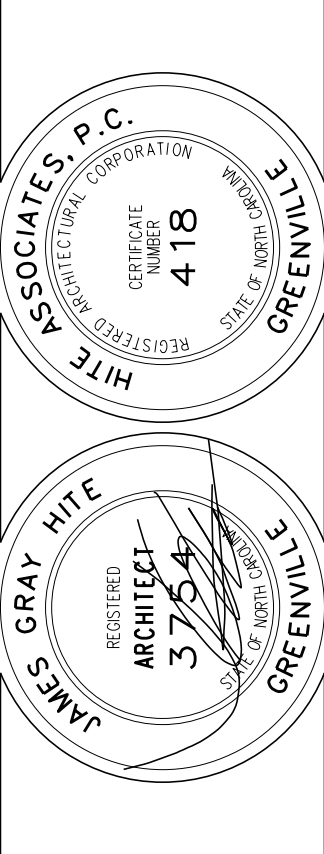


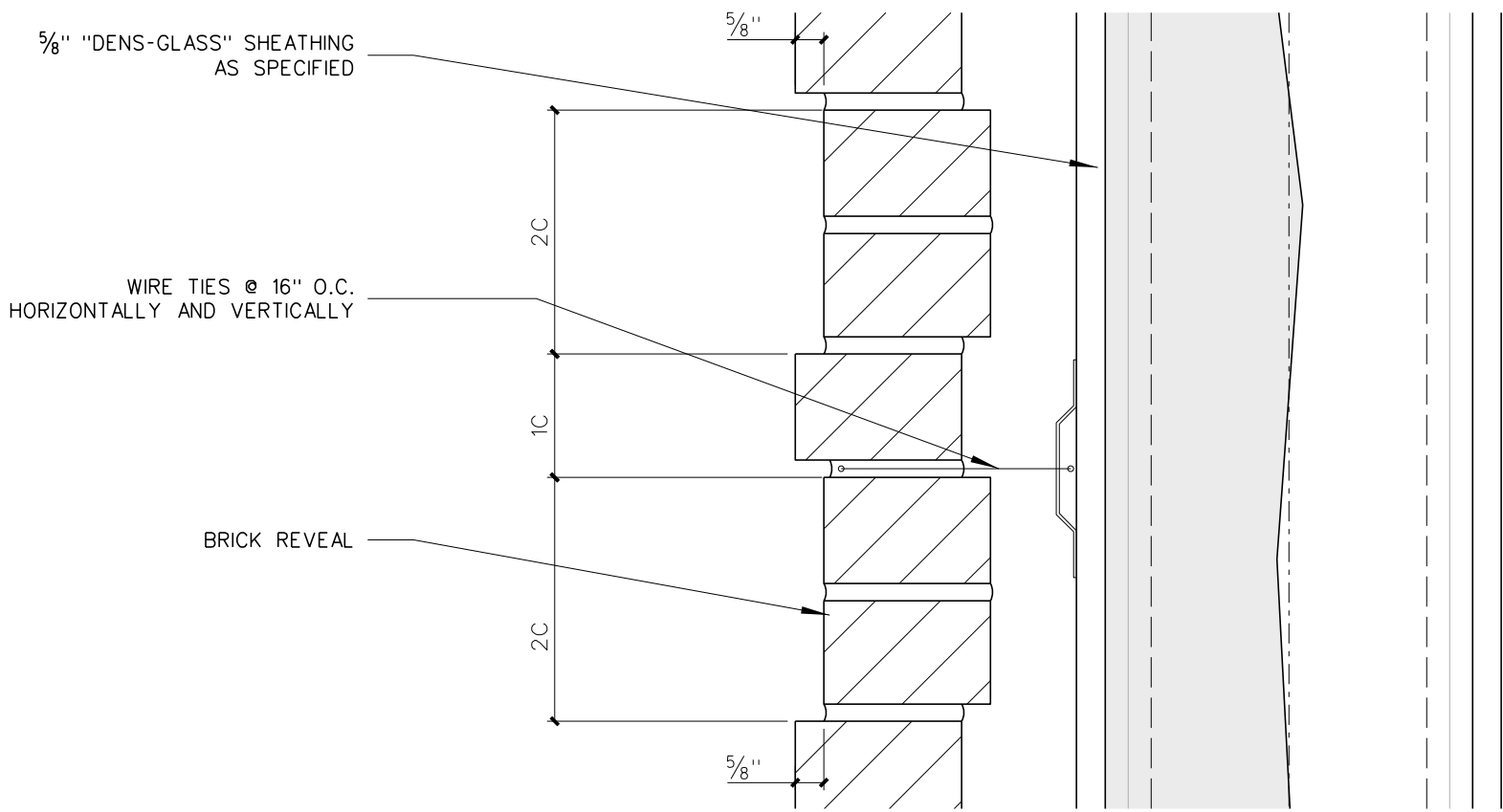
705.4 COLUMN DETAIL

703 COLUMN DETAILS

SCALE: 1 1/2" = 1'-0"

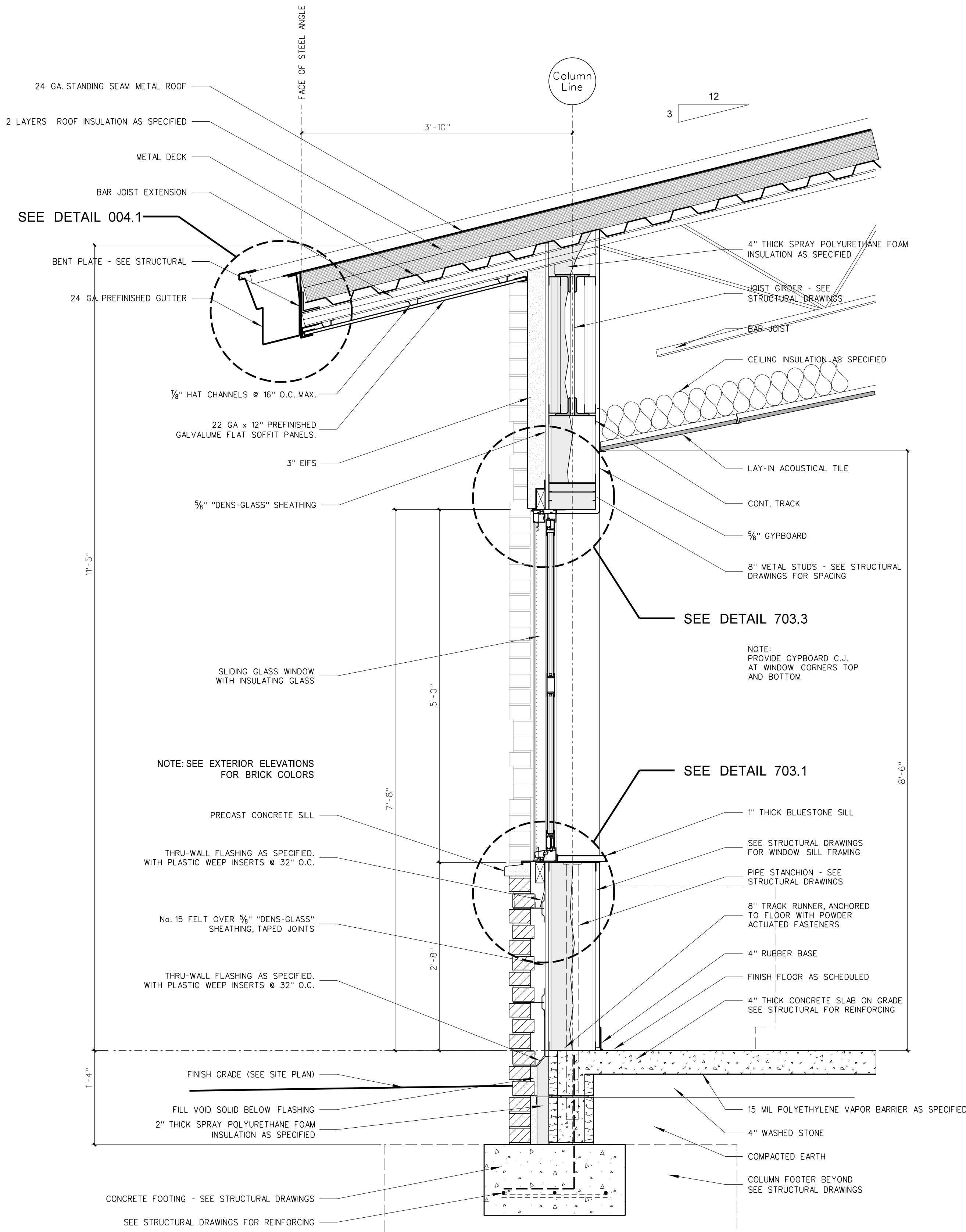
No.	Date	Revision



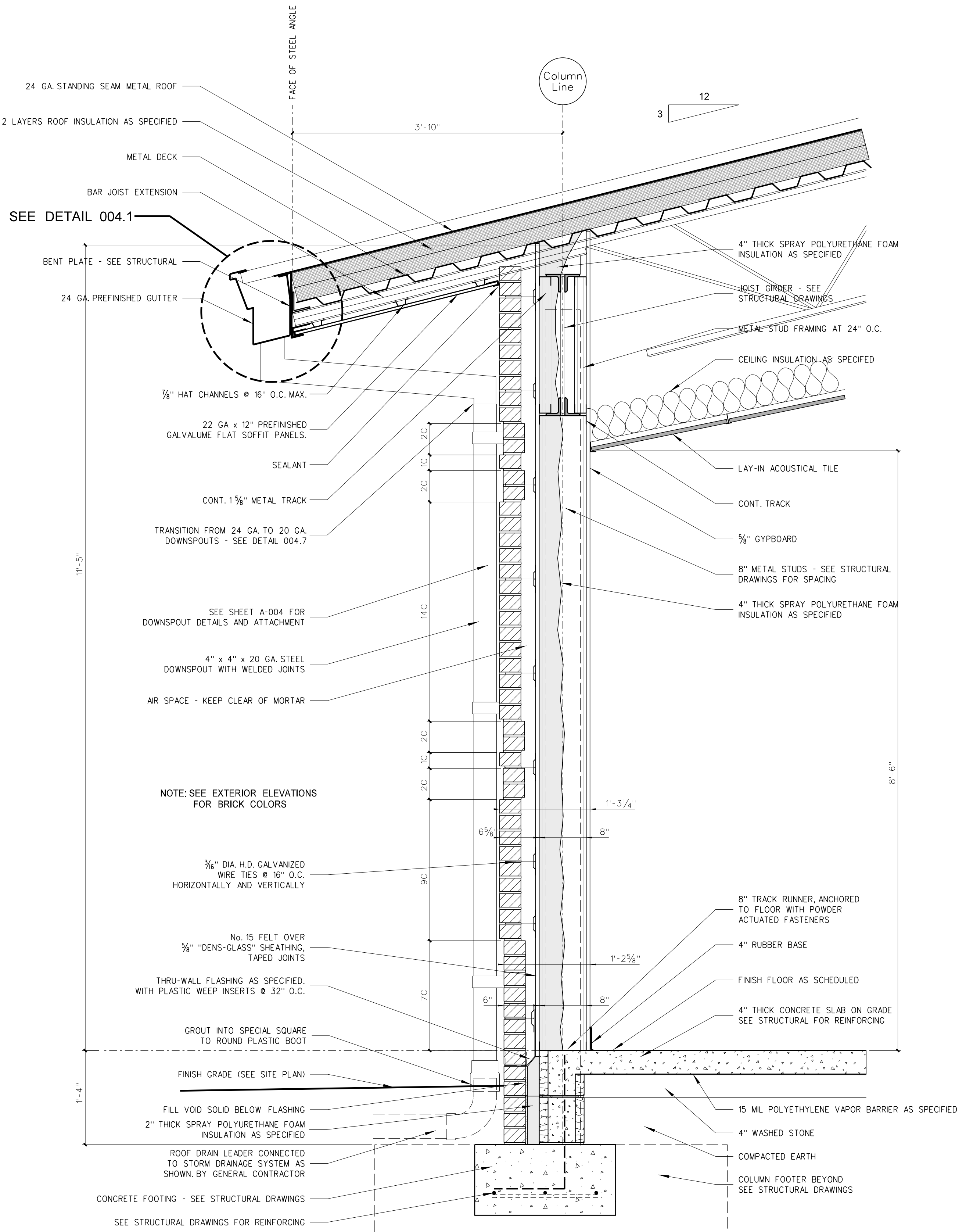


- General Notes for Wall Sections**
- (1) SEE EXTERIOR ELEVATIONS FOR BRICK COLOR.
 - (2) GENERAL CONTRACTOR SHALL VERIFY TOP OF FINISH GRADES, TOP OF CONCRETE WALKS AND TOP OF CONCRETE SLABS ADJACENT TO BUILDING AND ADJUST LOCATION OF THROUGH WALL FLASHING ACCORDINGLY.
 - (3) PROVIDE PLASTIC INSERT WEEPS AT ALL AT DOOR, WINDOW AND FLOOR FLASHING.
 - (4) GENERAL CONTRACTOR SHALL SLOPE CONCRETE FLOOR TO FLOOR DRAINS AS SHOWN ON PLUMBING DRAWINGS.
 - (5) ALL CMU CELLS BELOW FINISH FLOOR SHALL BE FILLED WITH CONCRETE.
 - (6) ALL VAPOR BARRIERS UNDER FLOOR SLABS SHALL BE LAPPED 12" MINIMUM AND TAPPED CONTINUOUS AT JOINTS. GENERAL CONTRACTOR SHALL REPAIR ANY DAMAGED VAPOR BARRIER PRIOR TO PLACING CONCRETE.
 - (7) PROVIDE 4" MINIMUM SPRAY POLYURETHANE INSULATION IN ALL METAL STUDS EXTERIOR WALLS. SEE WALL SECTIONS AND SPECIFICATIONS.
 - (8) PROVIDE SPRAY POLYURETHANE INSULATION IN ALL NESTED METAL STUD WINDOW AND DOOR JAMBS, SILL AND HEADS.
 - (9) ALL INTERIOR METAL STUD/GYPSUM WALLBOARD PARTITIONS REQUIRE SOUND ATTENUATION BATTS.
 - (10) PROVIDE METAL CHAIRS UNDER ALL STEEL WIRE MATS REINFORCING STEEL FOR CONCRETE SLABS AND FOUNDATIONS.
 - (11) PROVIDE GYPSUM CONTROL JOINTS AT ALL GYPBOARD / METAL STUD WINDOW JAMBS. SEE INTERIOR ELEVATIONS.
 - (12) ALL SEALANT COLORS TO BE SELECTED BY ARCHITECT.
 - (13) ROOF INSULATION TAPE ALL ROOF INSULATION JOINTS, BOTH LAYER LAP AND TAPE VAPOR BARRIER. ARCHITECT TO FIELD VERIFY PRIOR TO METAL ROOF PANEL INSTALLATION.
 - (14) PROVIDE PRE-FORMED THRU-WALL FLASHING CORNER MEMBERS FOR EXTERIOR WALL CORNERS AS SPECIFIED.

801.3 BRICK REVEAL DETAIL
SCALE: 3" = 1'-0"

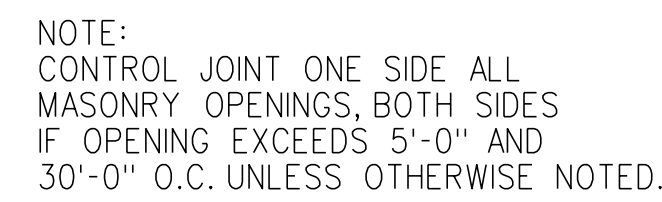


801.2 WALL SECTION - SLIDING WINDOW / EGRESS EXIT
SCALE: 1" = 1'-0"



801.1 WALL SECTION: TYPICAL CLASSROOM @ BRICK
SCALE: 1" = 1'-0"

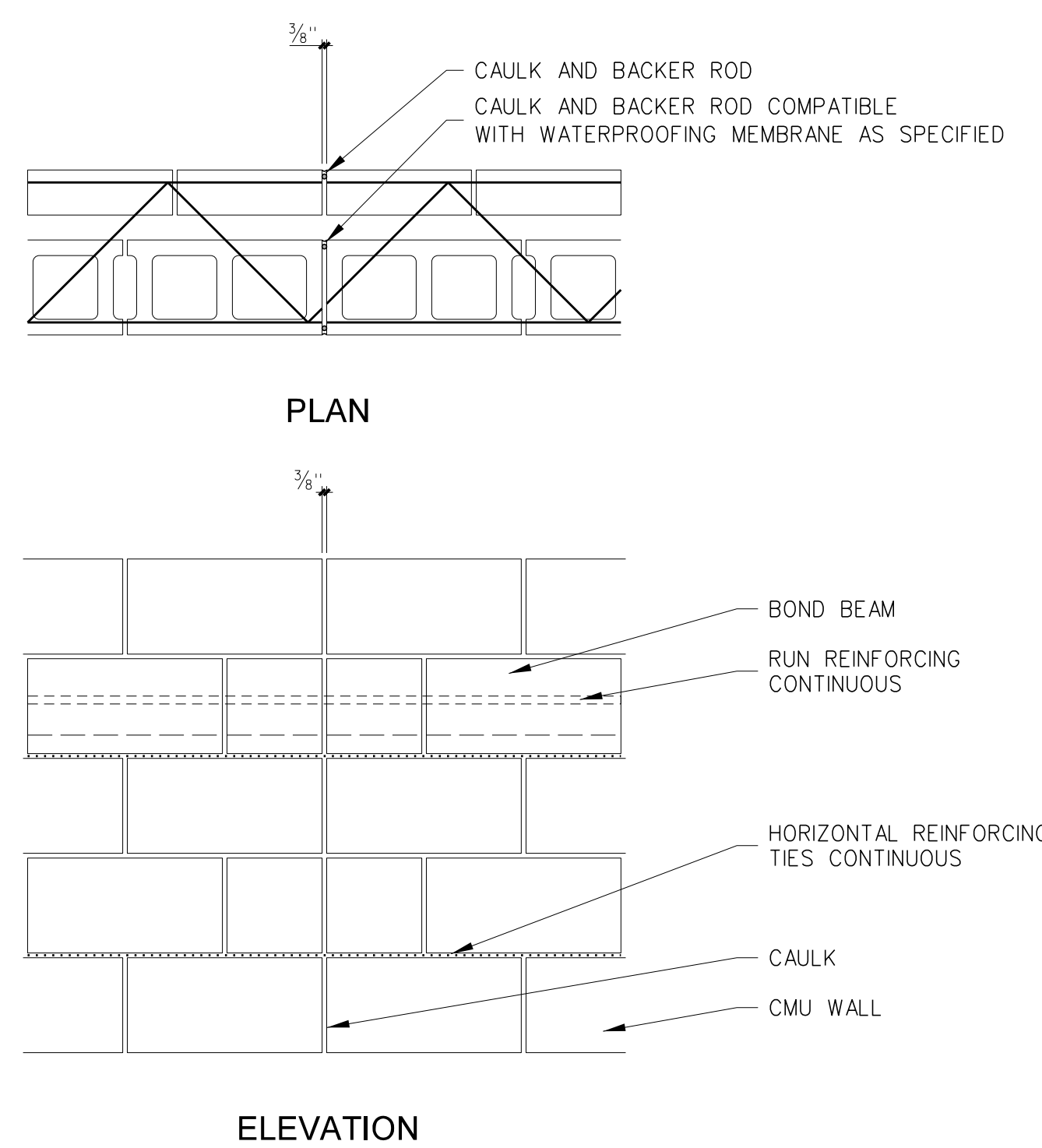
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The image contains two technical drawings of a wall joint assembly, labeled PLAN and ELEVATION.

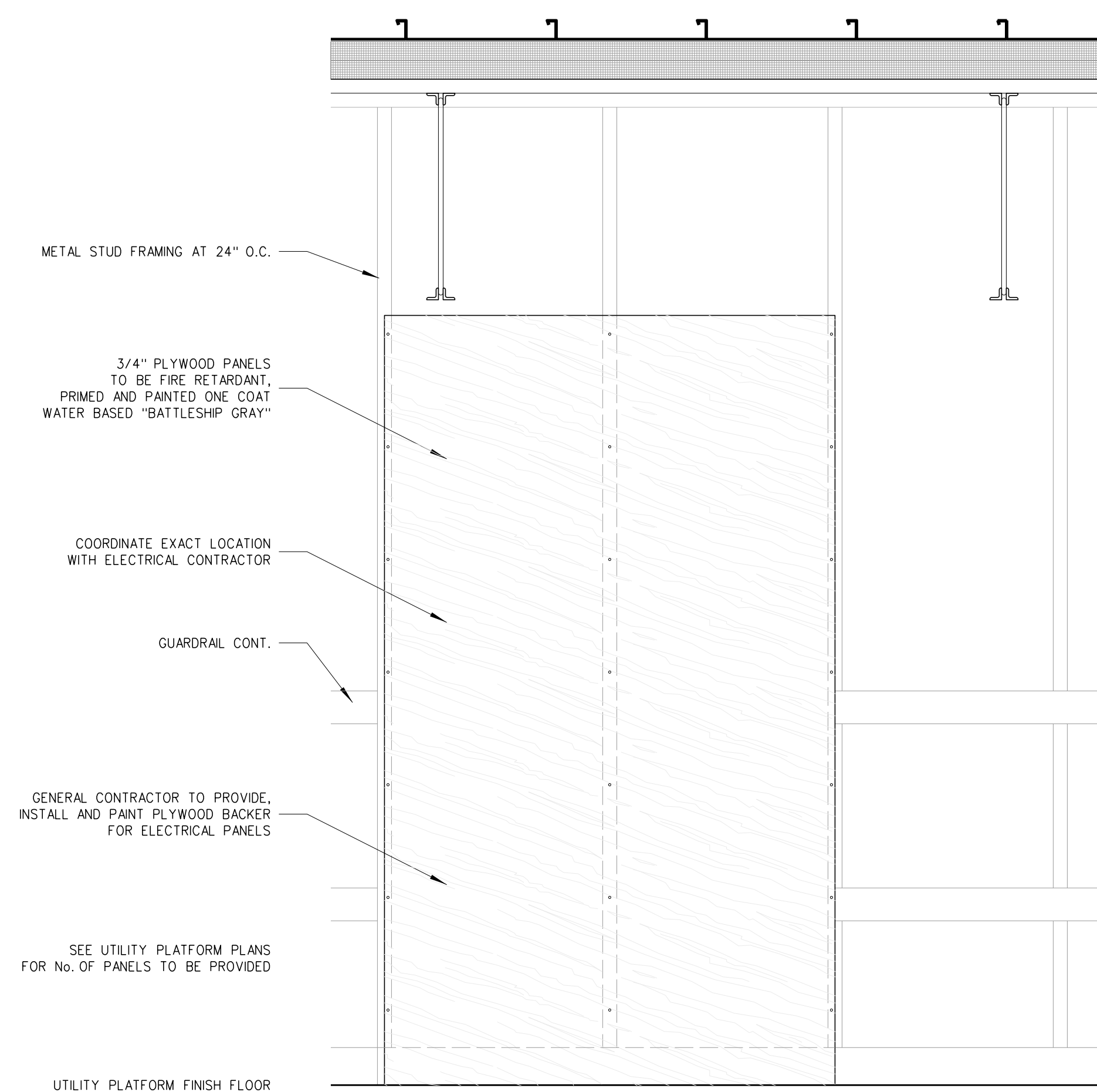
PLAN View: This drawing shows a cross-section of a wall joint. It features a central vertical line representing the joint. On either side of the joint, there are two layers of masonry: an inner layer of CMU (Concrete Masonry Units) and an outer layer of BRICK. A CAULK AND BACKER ROD is shown at the top of the joint, with a dimension of 1/2" indicated. Below the masonry, a layer of CAULK AND BACKER ROD COMPATIBLE WITH WATERPROOFING MEMBRANE AS SPECIFIED is shown.

ELEVATION View: This drawing shows a side view of the wall joint. It features a central vertical line representing the joint. On either side of the joint, there are two layers of masonry: an inner layer of CMU WALL and an outer layer of BOND BEAM. A JOINT SEALER OVER 1/2" EXPANSION JOINT is shown at the top of the joint. Below the masonry, a layer of (2) 3/4" x 2'-0" SMOG RODS- SET PERPEND WALL AND GREASE B is shown. The BOND BEAM is shown with a dimension of 1/2" indicated. The CMU WALL is shown with a dimension of 1/2" indicated. The BOND BEAM is shown with a dimension of 1/2" indicated. The CMU WALL is shown with a dimension of 1/2" indicated.

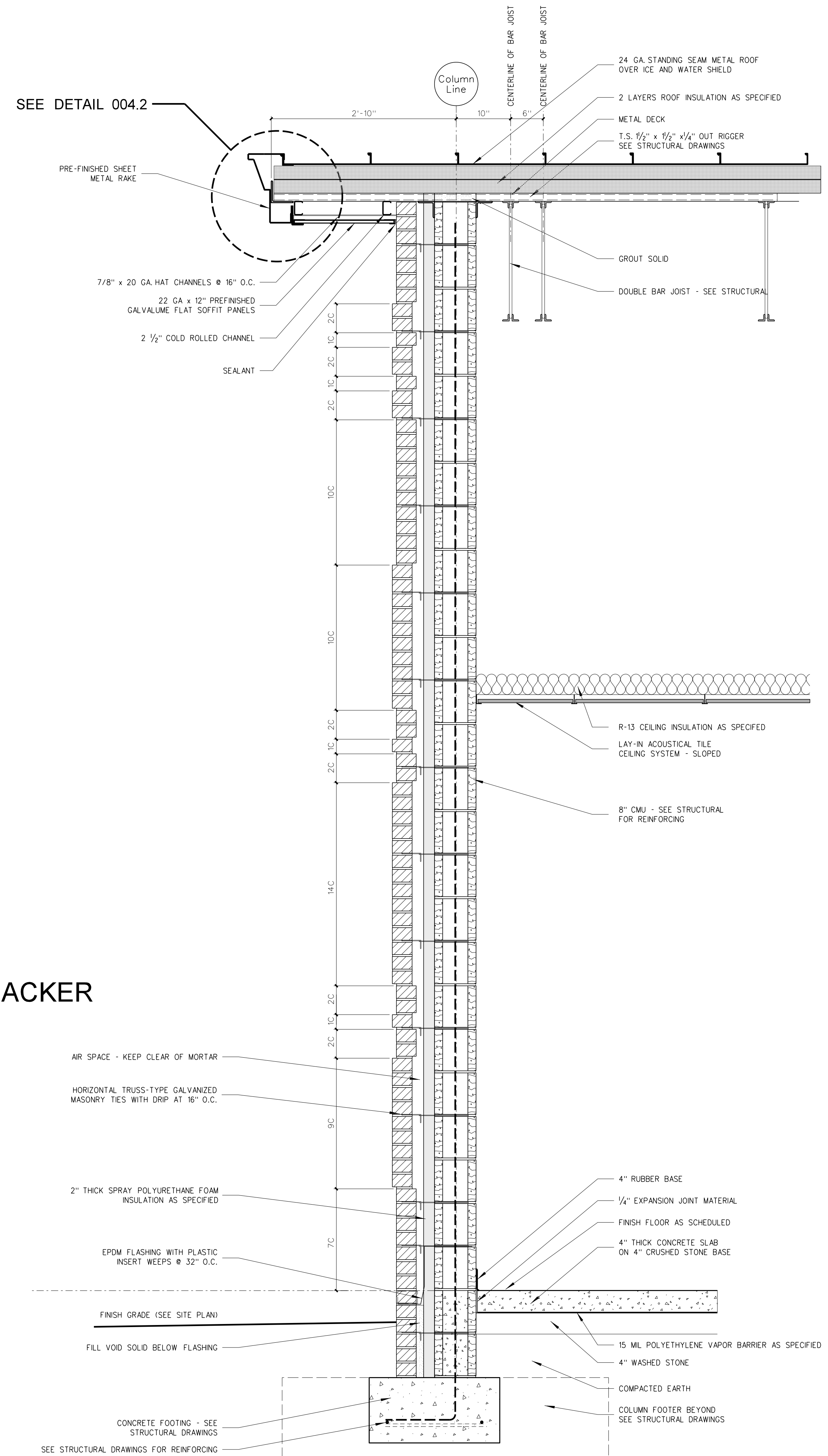


802.2 MASONRY CONSTRUCTION JOINT DETAILS

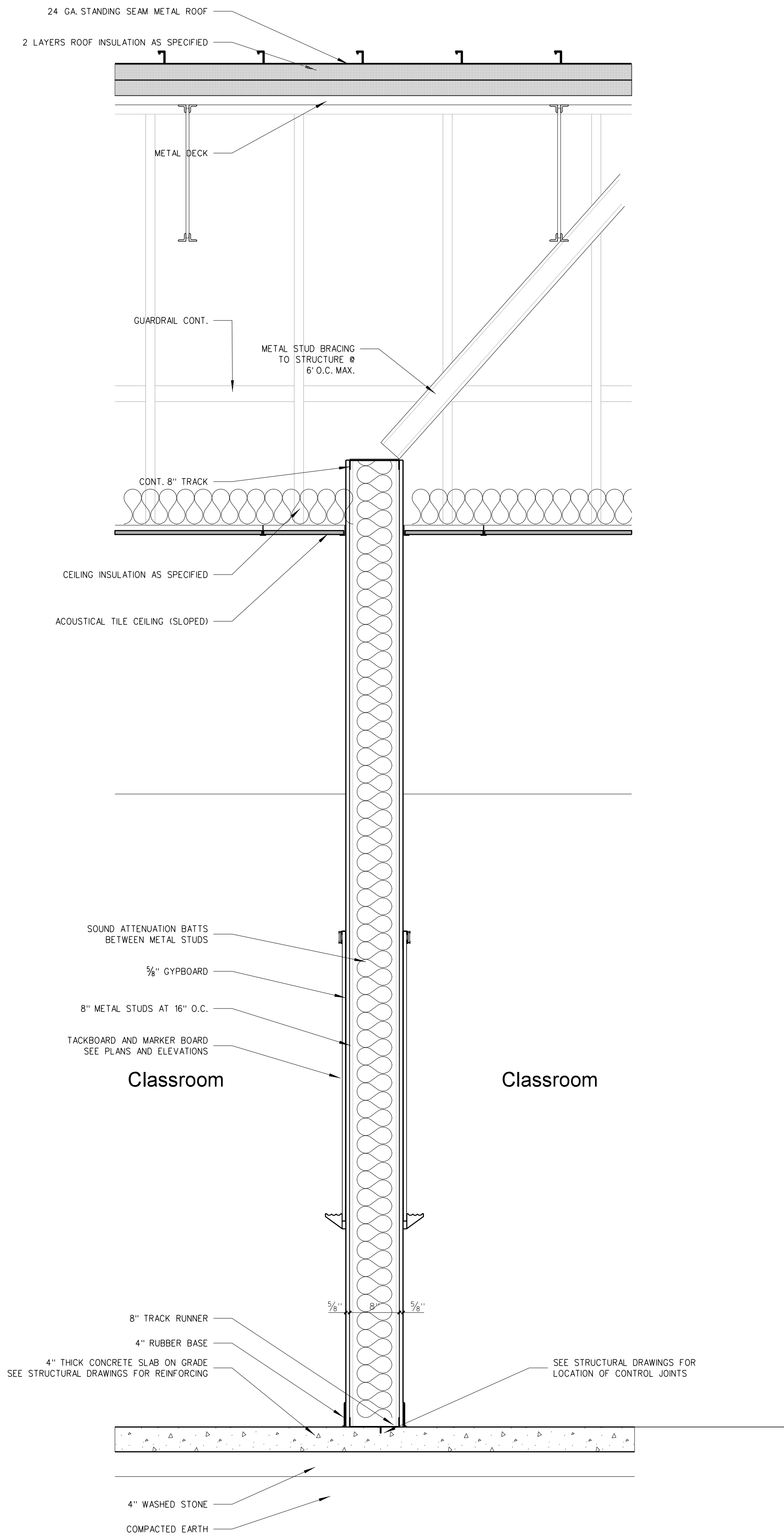
- (1) SEE EXTERIOR ELEVATIONS FOR BRICK COLOR.
- (2) GENERAL CONTRACTOR SHALL VERIFY TOP OF FINISH GRADINGS, TOP OF CONCRETE WALKS AND TOP OF CONCRETE SLABS ADJACENT TO BUILDING AND ADJUST LOCATION OF THROUGH WALL FLASHING ACCORDINGLY.
- (3) PROVIDE PLASTIC INSERT WEEPS AT ALL DOOR, WINDOW AND FLOOR FLASHING.
- (4) GENERAL CONTRACTOR SHALL SLOPE CONCRETE FLOOR TO FLOOR DRAINS AS SHOWN ON FLOOR PLAN DRAWINGS.
- (5) ALL CMU CELLS BELOW FINISH FLOOR SHALL BE FILLED WITH CONCRETE.
- (6) ANY VAPOR BARRIERS UNDER FLOOR SLABS SHALL BE LAPPED 12" MINIMUM AND TAPED CONTINUOUSLY AT JOINTS. GENERAL CONTRACTOR SHALL REPAIR OR DAMAGED VAPOR BARRIERS PRIOR TO PLACING CONCRETE.
- (7) PROVIDE 4" MINIMUM SPRAY POLYURETHANE INSULATION IN ALL METAL STUD EXTERIOR WALLS. SEE WALL SECTIONS AND SPECIFICATIONS.
- (8) PROVIDE SPRAY POLYURETHANE INSULATION IN ALL NESTED METAL STUD WINDOW AND DOOR JAMBS, SELLS AND HEADS.
- (9) ALL INTERIOR METAL STUD/GYPSUM WALLBOARD PARTITIONS REQUIRE SOUND ATTENUATION BATT.
- (10) PROVIDE METAL CHAIRS UNDER ALL STEEL WIRE MATS REINFORCING STEEL FOR CONCRETE SLABS AND FOUNDATIONS.
- (11) PROVIDE GYPSUM CONCRETE JOINT AT ALL GYPSOBORD / METAL STUD WINDOW JAMBS. SEE EXTERIOR ELEVATIONS.
- (12) ALL SEALANT COLORS TO BE SELECTED BY ARCHITECT.
- (13) ROOF INSULATION TAPE, ALL ROOF INSULATION JOINTS, BOTH LAYER LAP AND TAPE TO SUBSTRATE, AND ALL ROOF JOINTS SHALL VERIFY PRIOR TO METAL ROOF PANEL INSTALLATION.
- (14) PROVIDE PRE-FORMED THRU-WALL FLASHING CORNER MEMBERS FOR EXTERIOR WALL CORNERS AS SPECIFIED.



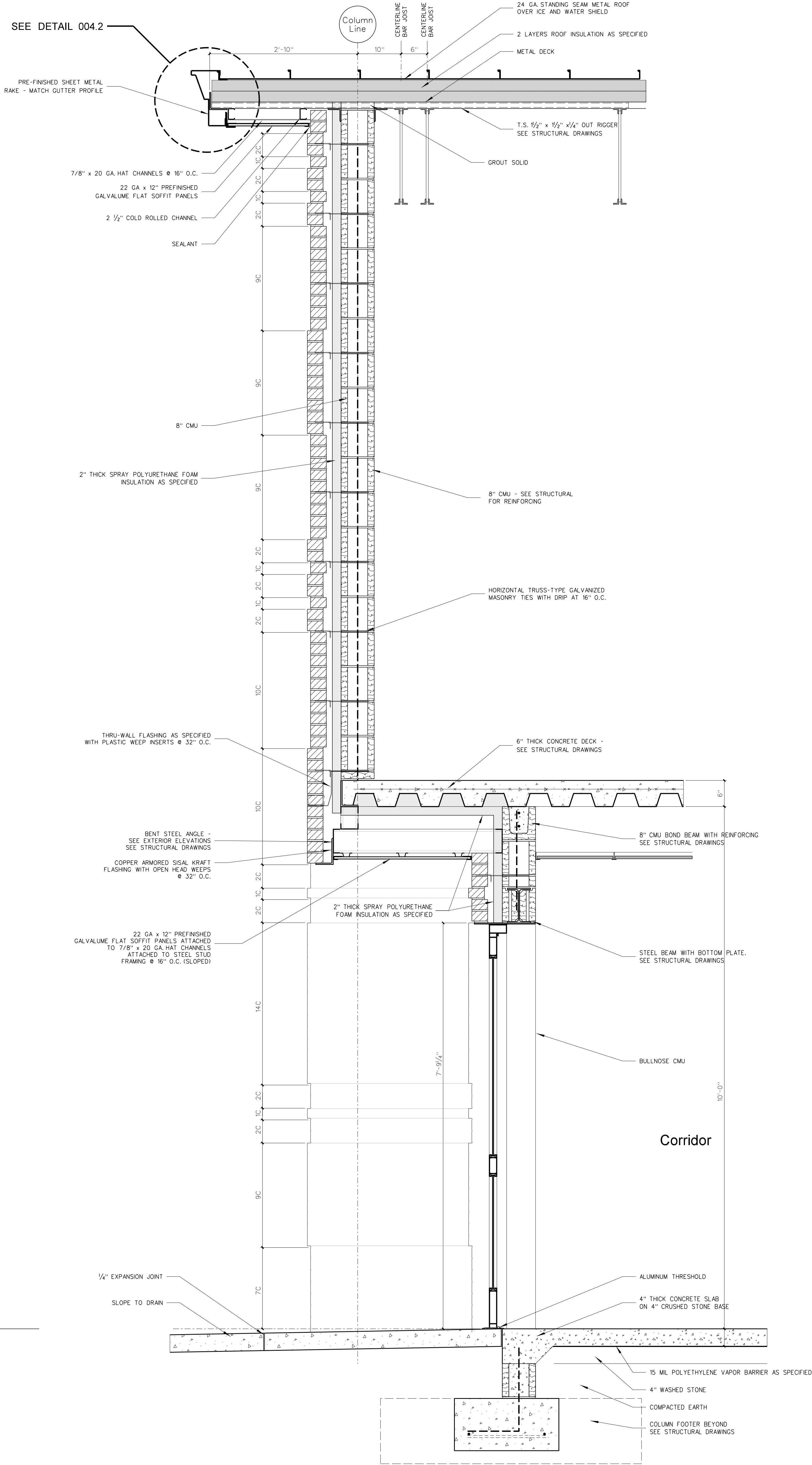
802.3 UTILITY PLATFORM ELECTRICAL PANEL BACKER



802.1 WALL SECTION - CLASSROOM ENDWALL



803.2 WALL SECTION - CLASSROOM PARTITION
SCALE: 1" = 1'-0"



803.1 WALL SECTION: ENTRY
SCALE: 1" = 1'-0"

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HITE ASSOCIATES, P.C.
REGISTERED PROFESSIONAL ARCHITECT
MEMBER AIA
418
GREENVILLE, NC

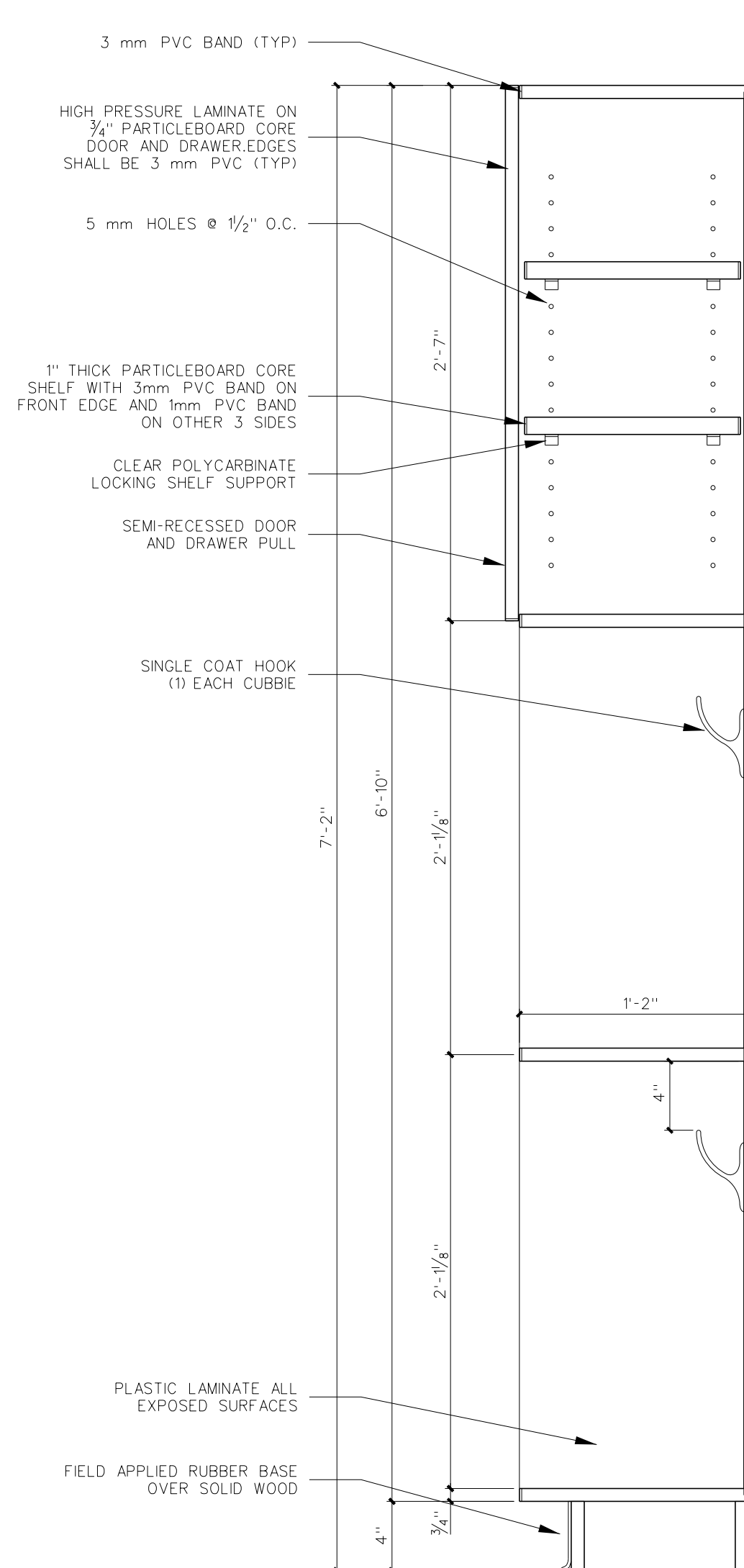
GRAY HITE
REGISTERED ARCHITECT
3754
GREENVILLE, NC

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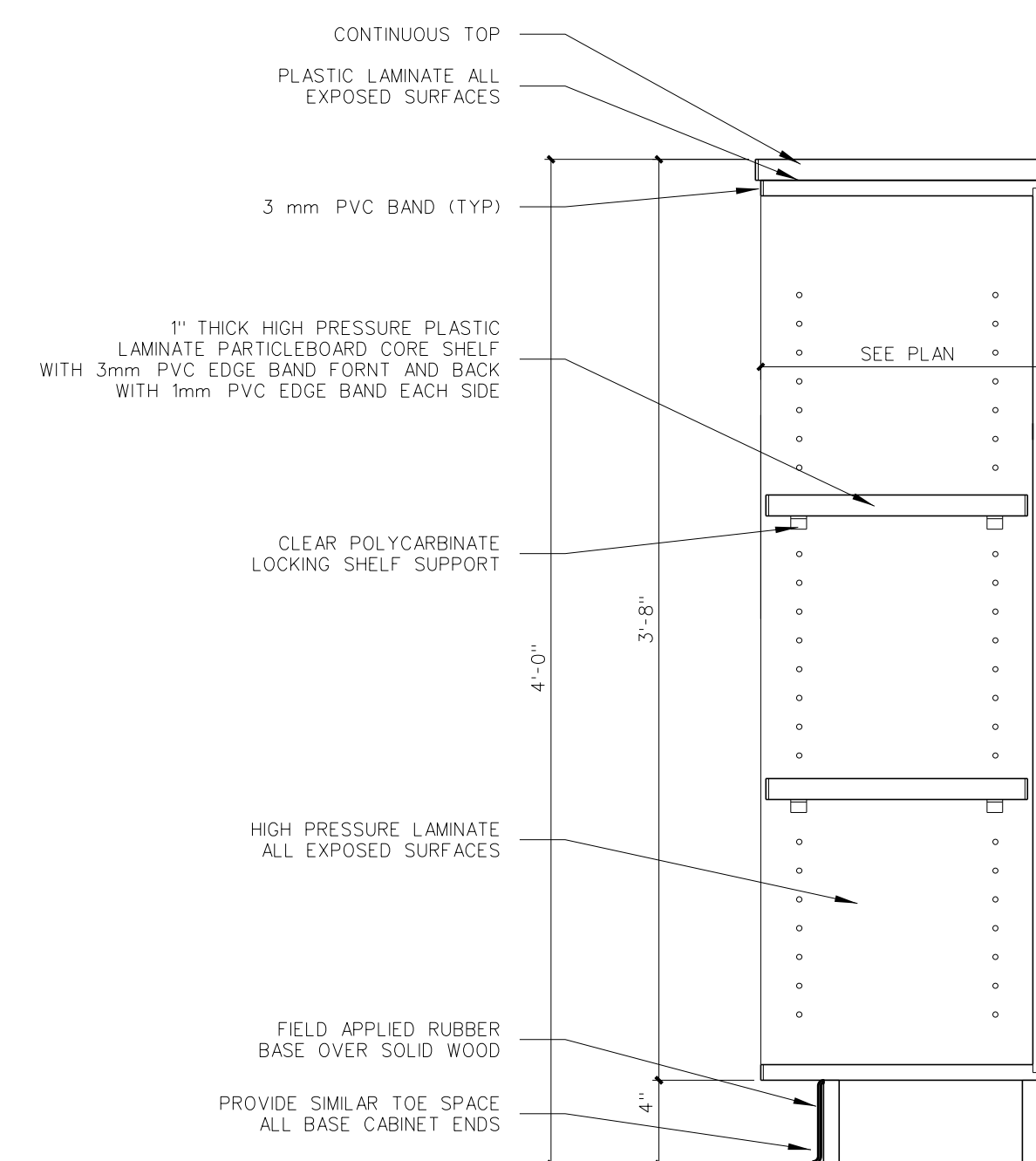
Project No. 22502
Date: 7 February 2025
Drawing no. **A 803**



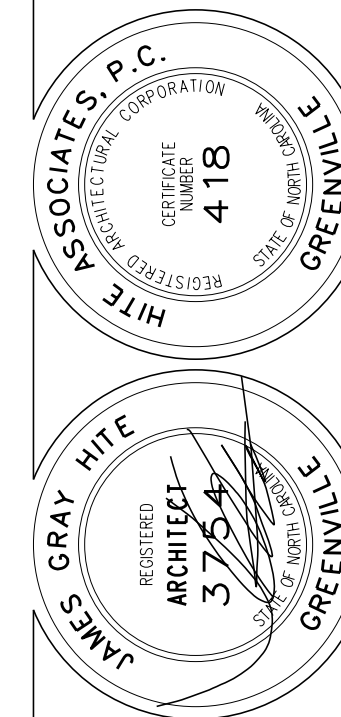




901.2 SECTION @ CUBBIES
SCALE: 1 1/2" = 1'-0"



901.1 SECTION @ BOOKCASE
SCALE: 1 1/2" = 1'-0"



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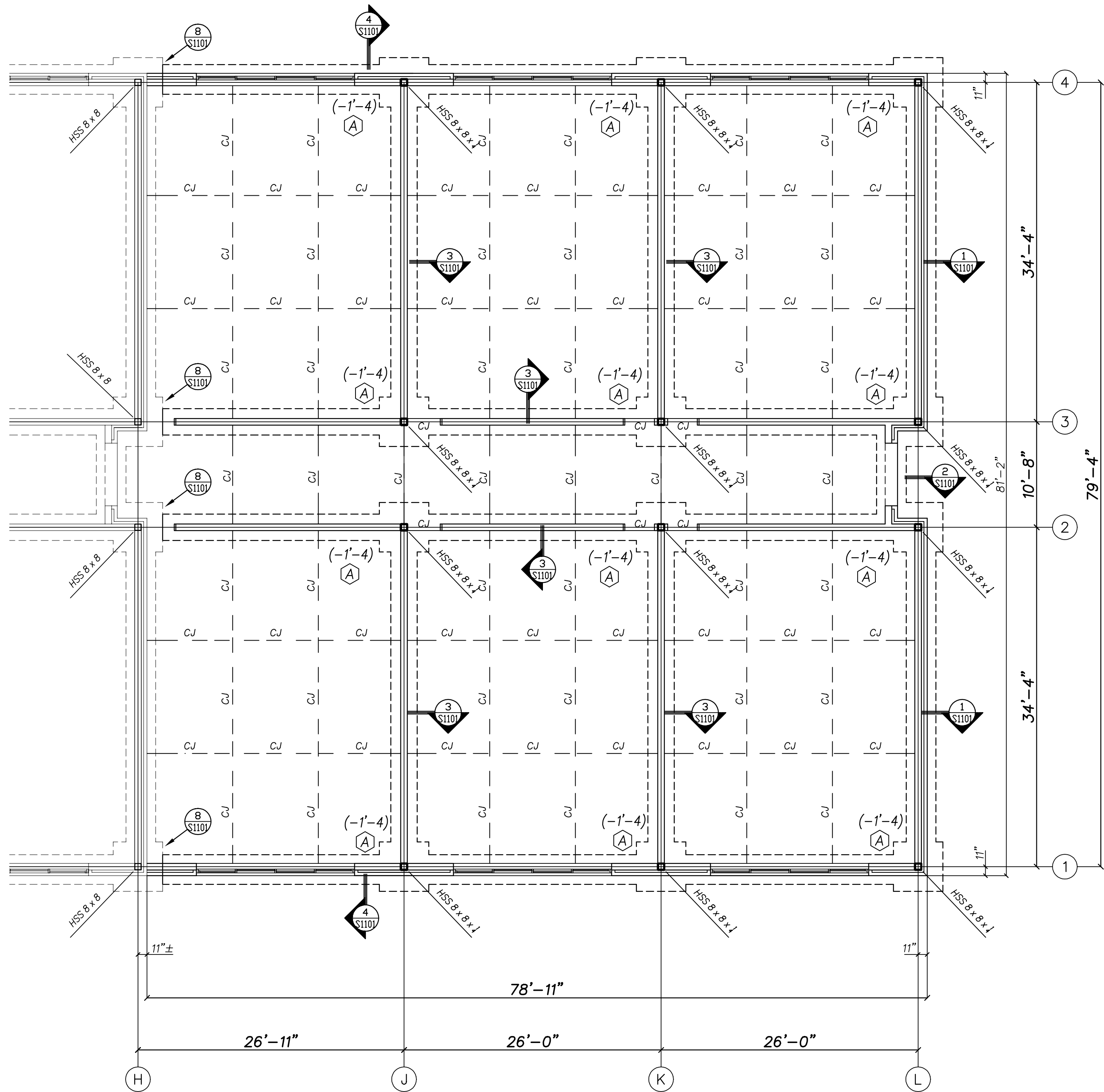
Date:
7 February 2025

Drawing no.

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901

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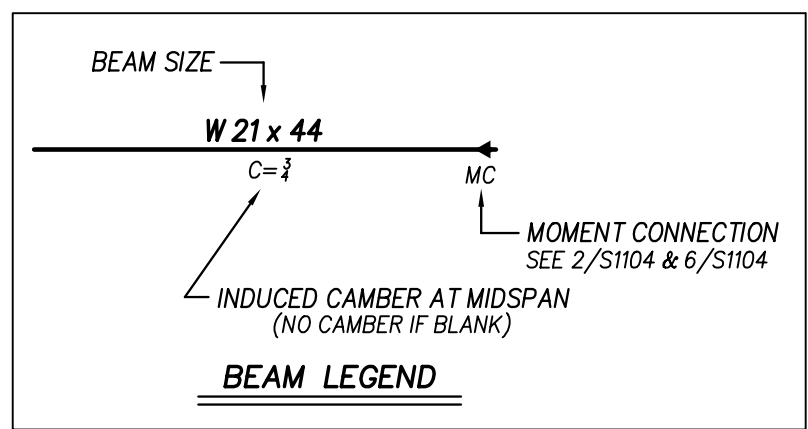
AREA 300 ADDITION FOUNDATION PART PLAN

$$f' = f - 0'$$

- 1) FOOTING DESIGN BASED ON A SOIL BRG. CAPACITY OF 2500 PSF. (PER NAVA GEOTECH. REPORT, PROJECT NO. 10727-2019022)
- 2) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER OF RECORD IF INSTABLE OR CRACKED, WEAK OR COMPROMISED SOIL CONDITIONS ARE ENCOUNTERED DURING EXCAVATIONS OR SUBSEQUENT GEOTECHNICAL INVESTIGATIONS.
- 3) ELEV. NOTED (-) ARE BELOW REFERENCE FINISHED FLOOR TO TOP OF FOOTING. (00.00)
- 4) SLAB ON GRADE IS NORMAL WEIGHT CONCRETE WITH REINFORCED WITH 6x6 W14 x 70.4 W8W ON A 4" NO. 57/67 WASHED STONE AND 15 MIL POLY PROP VANEER BARRIER, TYP. U.O.N.
- 5) ALL CONCRETE SHALL BE A MINIMUM STRENGTH OF 3000 PSI MEETING ACI 301 AND ACI 318. ALL CONCRETE SHALL BE MIXED, HANDLED, SAMPLED, TESTED, AND PLACED IN ACCORDANCE WITH ACI STANDARDS. ALL SAMPLES SUBJECT TO TESTING SHALL BE TAKEN AT A MINIMUM OF 10' FROM THE ELEVATION OF PLACEMENT. (REFERENCE ACI MANUAL OF CONCRETE PRACTICE).
- 5) ALL REINFORCING BARS SHALL BE GRADE 60 CONFORMING TO ASTM 615, LAP BARS WHERE REQUIRED USING CLASS B TENSILE LAP SPLICES, OR 40 BAR DIMENSIONS.
- 6) DEVELOPMENT LENGTHS SHALL BE PER MINIMUM.
- 7) SEE S101 FOR COLUMN FOOTING SCHEDULE AND ADDITIONAL NOTES THAT APPLY.
- 7) REFERENCE ARCHITECTURAL AND PLUMBING DRAWINGS FOR COORDINATION OF SLOPED FLOORS AT FLOOR DRAINS, AND DEPRESSION FLOOR SLAB LOCATIONS.
- 8) LOCATE ALL WALLS AND MASONRY OPENINGS PER ARCHITECTURAL DRAWINGS.
- 9) CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS & ELEVATIONS AS REQUIRED FOR ALL APPLICABLE TRADES TO PRODUCE DRAWINGS.

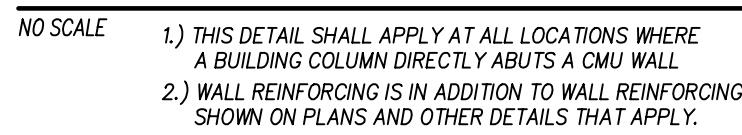


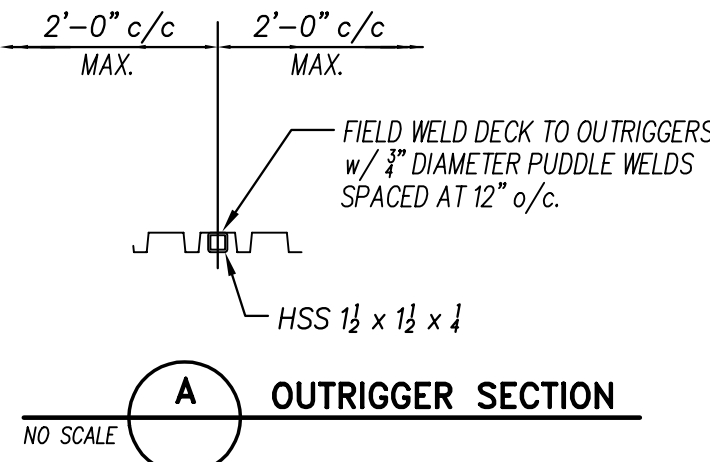
- 1) PLATFORM SLAB SHALL BE 6" THICK, LIGHT WEIGHT CONCRETE ON 3 x 16 GA. VJ GALVANIZED COMPOSITE FLOOR DECK. ALL BEAMS SUPPORTING SLAB SHALL HAVE 3"Ø x 0'-4 1/2" STUDS AT 12" O/C, TYPICAL.
- 2) SEE S1103 FOR METAL FLOOR DECK FASTENING PATTERN.
- 3) SEE S1103 FOR CMU LINTEL/BOND BEAM NOTES AND DETAILS.
- 4) REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATION OF ALL LINTELS.
- 5) CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AS REQUIRED FOR COMPOSITE DECK SPANS GREATER THAN 10'-6"
- 6) LOCATE ALL WALLS AND MASONRY OPENINGS PER ARCHITECTURAL DRAWINGS.
- 7) CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS & ELEVATIONS AS REQUIRED FOR ALL APPLICABLE TRADES TO PRODUCE DRAWINGS.



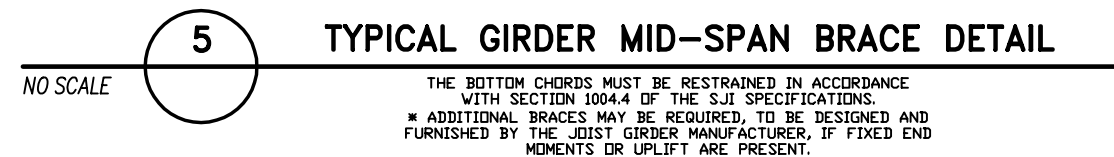


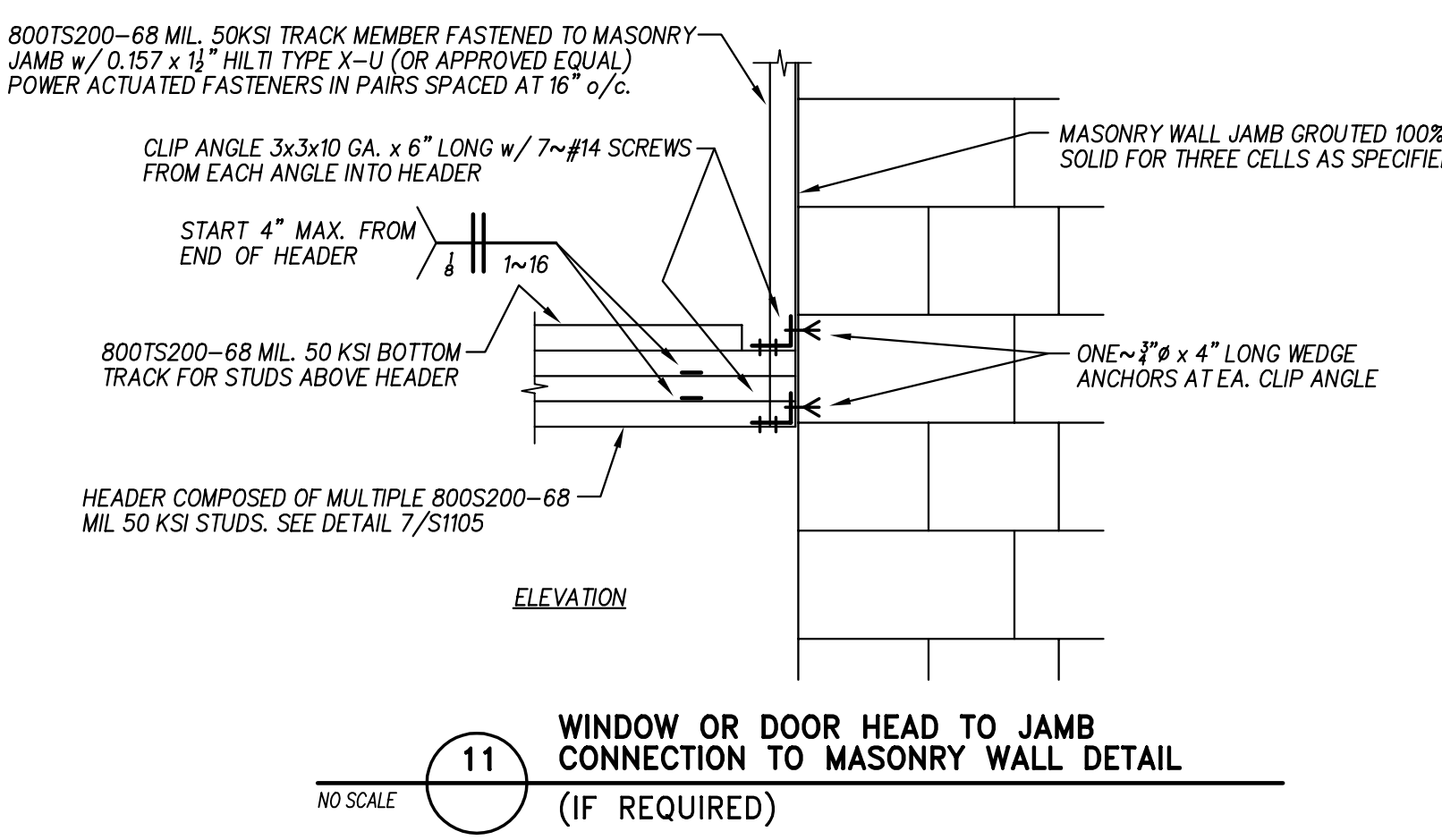
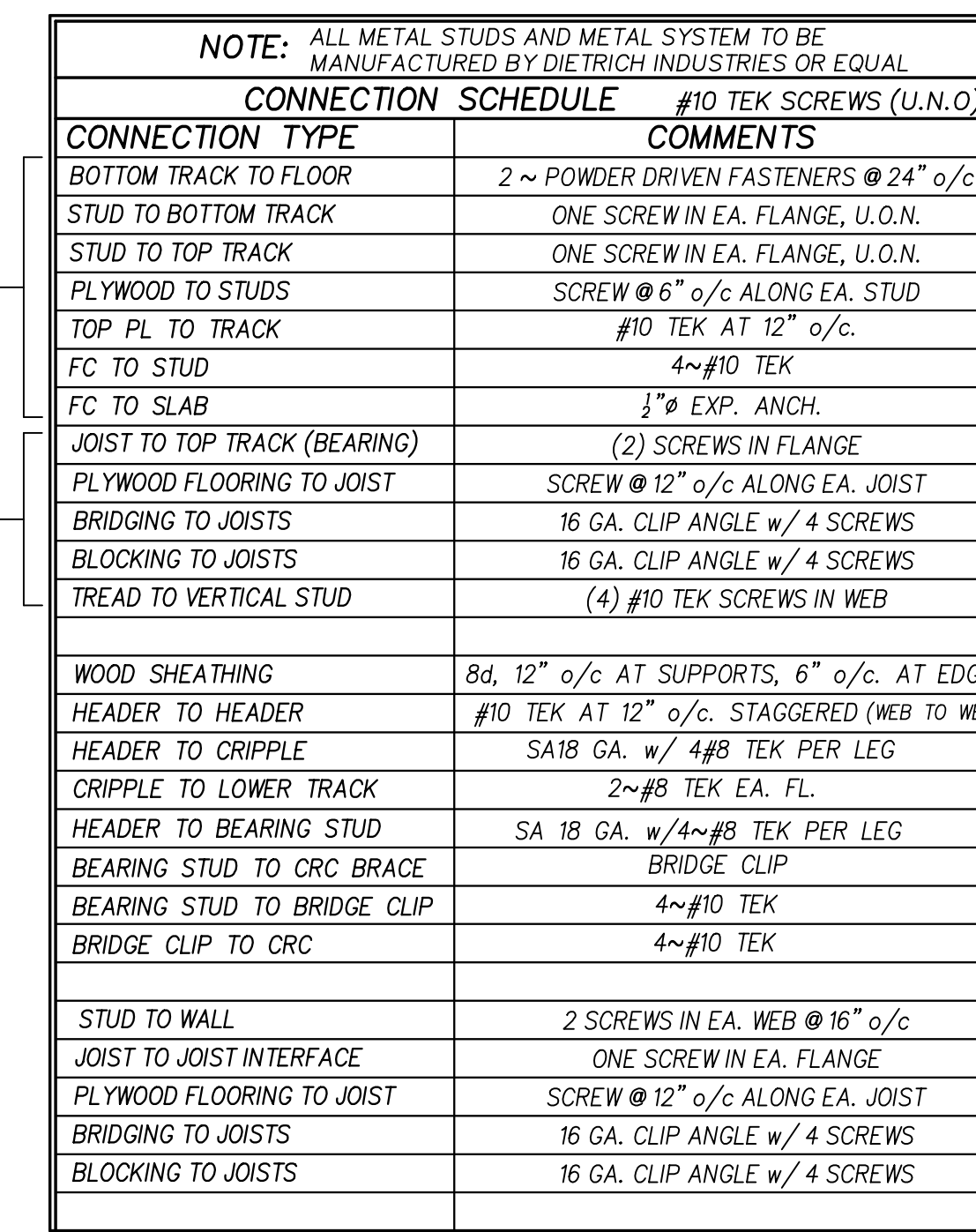
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- Diagram illustrating a beam section with camber and moment connection details:
- BEAM SIZE:** W 21 x 44
 - Camber:** C = 3/8
 - Moment Connection:** SEE 2/S1104 & 6/S1104
 - Induced Camber at Midspan:** (NO CAMBER IF BLANK)
 - Beam Legend:**











CONNECTIONS
AT STUDS

CONNECTIONS
AT JOISTS

GENERAL NOTES

FOUNDATIONS

1. ASSUMED SOIL DESIGN NET BEARING VALUE SHALL BE 2500 PSF TO BE FIELD VERIFIED BY THE GEOTECHNICAL TESTING LABORATORY AT THE TIME OF CONSTRUCTION. 2500 PSF ALLOWABLE NET BEARING PRESSURE IS CONSIDERED TO BE BEARING CAPACITY. THIS IS TO BE DETERMINED BY NATURAL SOIL STRATA OR SHALLOW IMPROVED BEARING SOIL STRATA. REFER TO THE 2500 PSF COLUMN FOOTING SCHEDULE FOR USE WITH THIS CRITERIA.

2. CONTINUOUS WALL FOOTINGS SHALL BE PLACED UPON BEARING SOIL THAT IS EITHER UNIMPROVED OR IMPROVED TO THE SAME ALLOWABLE NET BEARING VALUE AS THE CONTIGUOUS COLUMN FOOTINGS.

3. SITE CONDITIONS MAY DICTATE THAT THE SOIL IMPROVEMENT MEASURES BE TRANSITIONED OUT FROM THE AREAS OF UNIMPROVED OR SHALLOW IMPROVED DEPTHS. SUCH TRANSITIONING SHALL BE AS DIRECTED BY THE GEOTECHNICAL LABORATORY AT THE TIME OF CONSTRUCTION.

4. SITE PREPARATION AND PLACEMENT OF ENGINEERED COMPACTED FILL AND THE INTERMEDIATE SOIL IMPROVEMENT WORKS SHALL BE MONITORED BY THE GEOTECHNICAL LABORATORY. ALL NECESSARY PREPARATORY STRIPPING, CUTTING, PROOF ROLLING, AND FILLING AND IMPROVEMENT OPERATIONS SHALL BE SO MONITORED.

5. ALL FILL INSIDE THE BUILDING AND TO 10' OUTSIDE THE BUILDING INCLUDING RAMPS, STAIRS, AND STEPS SHALL BE CLEAN SELECT MATERIAL FREE OF DELETERIOUS MATERIALS SUCH AS WOOD, ROOTS, TRASH, OR OTHER EXTRANEIOUS MATERIALS. PLACE FILL TO BE COMPACTED IN 8" LIFTS, MEASURED LOOSE, AND COMPACT EACH LIFT TO 95% MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT AS MEASURED BY ASTM D698. CONTROL THE TOP THREE (3) LIFTS TO 100% MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT AS MEASURED BY ASTM D698.

6. ALL FOOTING EXCAVATIONS SHALL BE APPROVED BY THE GEOTECHNICAL LABORATORY PRIOR TO PLACING FOOTING CONCRETE.

7. FOOTING ELEVATIONS SHALL NOT BE RAISED OR LOWERED UNLESS SPECIFICALLY APPROVED BY THE ARCHITECT.

8. FOOTINGS MAY BE CARRIED TO LOWER ELEVATION WHERE DIRECTED BY THE ARCHITECT.

9. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONAL LOCATIONS OF MASONRY WALLS AND PARTITIONS THAT REQUIRE CONTINUOUS WALL FOOTINGS AND/OR MONOLITHIC THICKENED SLAB FOOTINGS FOR SUPPORT.

10. CONSTRUCTION JOINTS IN CONTINUOUS WALL FOOTINGS SHALL BE MADE MIDWAY BETWEEN COLUMNS AND AT LEAST 4' FROM THE INTERSECTION OF ANOTHER WALL FOOTING.

11. COLUMN FOOTINGS IN LINE WITH WALL FOOTINGS SHALL BE PLACED MONOLITHICALLY AND FLUSH TOP WITH THE CONTIGUOUS WALLS FOOTINGS.

12. STEPPED WALL FOOTINGS IF REQUIRED SHALL START OR TERMINATE AT LEAST 4' FROM A COLUMN FOOTING, WALL CORNER, OR WALL INTERSECTIONS.

13. AT LOCATIONS WHERE SLAB BLOCK OUTS ARE REQUIRED AWAITING THE STEEL COLUMN ERECTION PROVIDE FOR A SLAB TURNDOWN OF 8" MINIMUM CONCRETE THICKNESS AROUND THE BLOCKOUT TO RETAIN THE SUPPORTING SOIL UNDER THE SLAB. AT THE CONTRACTORS OPTION THIS SOIL RETAINING TURNDOWN MAY BE APPROVED WITH 8" CMU FILLED 100% SOLID WITH 3000 PSI CONCRETE.

14. FOUNDATIONS SHALL BE PLACED ONLY ON UNCOMPRESSED NATURAL UNDISTURBED SOIL STRATA OR ON PROPERLY PLACED ENGINEERED CONTROLLED COMPACTED IMPROVED FILL UNDER THE SUPERVISION OF THE GEOTECHNICAL LABORATORY.

CONCRETE

1. CONCRETE SHALL DEVELOP THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS AT 28 DAYS:

- | | |
|----------------------------------|------------|
| A) FOOTINGS AND PEDESTALS | - 3000 PSI |
| B) INTERIOR SLABS ON GRADE | - 3000 PSI |
| C) FILL FOR MASONRY UNITS | - 3000 PSI |
| D) OTHER INTERIOR WALLS | - 3000 PSI |
| E) EXPOSED EXTERIOR CONCRETE | - 4000 PSI |
| F) SUSPENDED SLABS ON METAL DECK | - 3000 PSI |
| G) MASONRY CAVITY WALL FILL | - 3000 PSI |

2. CONCRETE FOR FOOTINGS AND SLABS ON GRADE SHALL BE REGULAR STRENGTH CONCRETE.

3. CONCRETE FOR SLABS SUSPENDED ON COMPOSITE METAL DECK SHALL BE STRUCTURAL LIGHTWEIGHT CONCRETE WITH MAXIMUM AIR CONTENT WEIGHT OF 120 PPF.

4. CONCRETE FOR FILL IN CONCRETE MASONRY BLOCK CELLS, BOND BEAMS, LINTEL BLOCKS, AND CAVITY WALL FILL BELOW FLOOR IN EXTERIOR WALLS AND OTHER MASONRY UNITS SHALL BE FINE AGGREGATE CONCRETE MASONRY GROUT CONFORMING TO ASTM C476 OR 3000 PSI CONCRETE WITH 3/8" MAXIMUM COARSE AGGREGATE SIZE. AT CONTRACTORS OPTION 3000 PSI SELF CONSOLIDATING CONCRETE GROUT MAY BE UTILIZED FOR MASONRY GROUTING PURPOSES WITH PROPER PRECAUTIONS TAKEN FOR THE HYDROSTATIC PRESSURE ISSUES.

5. UNLESS SELF CONSOLIDATING CONCRETE GROUT IS UTILIZED THE CONCRETE MIX FOR MASONRY GROUTING SHALL BE PLACED IN A WALL GROUT SHALL BE PROPORTIONED AT THE PLANT FOR A HIGH SLUMP OF 8" TO 12" TO FACILITATE PLACEMENT AND TO ACCOMMODATE WATER ABSORPTION BY THE MASONRY UNITS. HIGH SLUMP SHALL BE ACHIEVED WHILE KEEPING THE WATER CEMENT RATIO IN THE NORMAL RANGE FOR A 3000 PSI MIX. THE MIX SHALL REQUIRE ADJUSTING CEMENT IN THE BATCH TO GO ALONG WITH THE WATER ADDED FOR THE SLUMP REQUIREMENT.

6. MORTAR MIX SHALL NOT BE ALLOWED FOR ANY BLOCK MASONRY FILL REQUIREMENTS.

7. CONCRETE TO BE PERMANENTLY EXPOSED TO WEATHER SHALL HAVE 5% AIR ENTRAINMENT.

8. CONCRETE NOT PERMANENTLY EXPOSED TO THE WEATHER SHALL NOT HAVE AIR ADDED BY ENTRAINMENT. THIS REQUIREMENT SHALL BE VERIFIED AND REPORTED BY LABORATORY TESTS.

9. ALL CONCRETE WORK SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" ACI 318.

10. OBSERVE ALL AND STRICTLY FOLLOW ALL ACI 308 AND 308R REQUIREMENTS RESPECTIVELY FOR PROTECTION OF CONCRETE IN HOT AND COLD WEATHER.

11. ALL CONCRETE SLAB WORK SHALL BE PROPERLY CURED IN CONFORMANCE WITH ACI 308. OTHER WATER CURING, WATERPROOF PAPER CURING, PLASTIC SHEET, OR SPRAY-ON SEALING MATERIALS METHOD MAY BE USED PROVIDED THAT THE METHOD CHOSEN HAS NO DETRIMENTAL EFFECT ON THE FINAL FINISH SPECIFIED FOR THE RESPECTIVE AREAS. THE PROPOSED CURING METHOD TO BE USED SHALL BE APPROVED BY THE ARCHITECT.

12. BUILDING SLABS ON GRADE SHALL BE 4" MINIMUM THICKNESS.

13. BUILDING SLABS ON COMPOSITE METAL FLOOR DECK IF REQUIRED AT THE UTILITY PLATFORM AREA SHALL BE 6" MINIMUM THICKNESS NECESSARY FOR ACHIEVING THE REQUIRED 1 HOUR FIRE SEPARATION RATING.

14. PLACE 1/4" PRE-FORMED, IMPREGNATED EXPANSION JOINT FILLER FULL DEPTH OF SLAB ON GRADE AT ABUTTING WALL SURFACES UNLESS OTHERWISE NOTED.

15. PROVIDE CONSTRUCTION OR CONTROL JOINTS IN SLABS ON GRADE IN LOCATIONS AS SHOWN ON FOUNDATION PLAN OR AT OTHER LOCATIONS APPROVED OR REQUIRED BY THE ARCHITECT. BUT SPACING OF JOINTS SHALL NOT EXCEED 12' IN ANY DIRECTION.

16. THE TYPE OF JOINT USED WHETHER CONTROL JOINT OR CONSTRUCTION JOINT IS THE OPTION OF THE CONTRACTOR UNLESS OTHERWISE NOTED ON THE DRAWINGS.

17. SAW JOINTS AT CONTROL JOINTS IN THE CONCRETE SLABS SHALL BE MADE AS SOON AS THE CONCRETE IS SUFFICIENTLY CURED TO PREVENT SPALLING OF THE JOINT DUE TO THE ACTION OF THE SAW, BUT IN NO CASE GREATER THAN 4 HOURS AFTER INITIAL PLACEMENT OF THE CONCRETE.

18. SLAB JOINT FILLER SHALL BE OF THE TYPE COMPATIBLE WITH THE FINAL FLOOR COVERING USED. SLAB JOINTS UNDER PERMANENT PARTITIONS OR CASE WORK NEED NOT BE FILLED.

19. CHAMFER EXPOSED EDGES AND CORNERS OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.

20. SEE ARCHITECTURAL DRAWINGS FOR REQUIRED FLOOR FILL FINISHES AND PROVIDE NECESSARY SLOPES, DEPRESSIONS, AND SLAB FINISHES REQUIRED TO ACCEPT THE SPECIFIED FINAL FINISHES.

21. PROVIDE A 2 1/2" 32" SLAB DEPRESSION IN THE AREAS REQUIRING THE WOOD PLATY FLOOR. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATIONS OF THE WOOD PLATY FLOOR.

REINFORCING STEEL

1. BARS SHALL BE ROLLED FROM NEW BILLET-STEEL CONFORMING TO "SPECIFICATION FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT," ASTM A615, GRADE 60.

2. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185.

3. DETAIL AND FABRICATE REINFORCING STEEL IN ACCORDANCE WITH "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES," ACI 318.

4. REINFORCING STEEL SHALL BE IN PLACE AND REINFORCED BY THE ARCHITECT PRIOR TO PLACING CONCRETE.

5. PROVIDE WWF IN FLAT SHEETS. ROLLED WWF WILL NOT BE ACCEPTED ON THIS PROJECT.

6. LAP ALL WWF END SPLICES TWO FULL MESHES AND ALL SIDE LAP SPLICES ONE FULL MESH AND TIE OFF WITH STANDARD TIE WIRES.

7. PLACE ONE LAYER OF 6 X 6 - W29 X W29 WWF AT 3/4" CLEAR FROM TOP OF ELEVATED SLABS ON COMPOSITE METAL DECK AT SECOND FLOOR AND UTILITY PLATFORM SLABS. TIE WWF TO REINFORCING STEEL.

8. OVER STEEL BEAMS TO PREVENT WORKMAN WHILE PLACING THE FRESH CONCRETE. IN ADDITION PROVIDE ONE LINE OF CONTINUOUS SLAB BOLSTERS AT MID SPAN OF ALL ELEVATED SLABS TO SUPPORT WWF IN THE PROPER POSITION AND TIE OFF TO PREVENT MOVEMENT DURING CONCRETE PLACEMENT OPERATIONS.

9. FABRICATE REBARS IN CONTINUOUS FOOTINGS, WALLS, BOND BEAMS, AND MONOLITHIC TURNED DOWN SLABS TO LONGEST PRACTICAL LENGTHS.

10. LAP HORIZONTAL REBAR SPLICES A MINIMUM OF 40 BAR DIAMETERS BUT A MINIMUM OF 24" UNLESS OTHERWISE NOTED. PLAN REBAR SPLICES TO OCCUR AT POINTS OF MINIMUM STRESS UNLESS OTHERWISE SHOWN.

11. LAP VERTICAL REBAR SPLICES INCLUDING DOWELS FROM FOOTINGS IN CMU WALLS A MINIMUM OF 60 BAR DIAMETERS.

12. BARS IN INDIVIDUAL COLUMN SPREAD FOOTINGS SHALL NOT BE SPLICED.

13. AT LOCATIONS REQUIRING VERTICAL DOWELS INTO FOOTINGS AND ELEVATED SLABS, THE PLACEMENT OF THE DOWELS SHALL MATCH THE SIZE AND CLOSELY MATCH THE LOCATION OF THE VERTICAL WALL REBARS REQUIRING THE DOWELS.

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15. ALL DOWELS SHALL TERMINATE IN THE FOOTING OR ELEVATED SLAB WITH A STANDARD ACI 90 OR 180 DEGREE HOOK AS APPROPRIATE. UNLESS SPECIFICALLY SHOWN OTHERWISE, DOWELS SHALL LAP THEIR MATCHING VERTICAL REBAR 60 BAR DIAMETERS.

16. PROVIDE THE FOLLOWING CLEARANCES FROM REBARS TO CONCRETE FACE UNLESS OTHERWISE NOTED ON DRAWINGS:

- | | |
|----------------|----------------------------------|
| A) EARTH FORMS | - 3" |
| B) WALL FORMS | - 3" |
| C) TOP OF SLAB | - 3/4" |
| D) SLAB FORMS | - 3/4" |
| E) CMU WYTHE | - CENTER BARS IN CENTER OF WYTHE |

17. UNLESS OTHERWISE NOTED OR SPECIFIED PROVIDE #6 VERTICAL REINFORCING AT 24" OC FOR EXTERIOR MASONRY WALLS.

18. UNLESS OTHERWISE NOTED OR SPECIFIED PROVIDE #6 VERTICAL REINFORCING AT 48" OC FOR INTERIOR MASONRY WALLS.

19. REFER TO "CONCRETE AND BRICK MASONRY" SECTION BELOW FOR SPECIAL REINFORCING FOR THE 12" AND 8" CMU FIRE WALLS.

20. PROVIDE INDUSTRY APPROVED REBAR CENTERING DEVICES FOR HOLDING VERTICAL REINFORCING BARS SECURELY IN THE CENTER OF THE CMU WYTHE.

21. SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.

22. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ADEQUATE TEMPORARY BRACING AND GUYING OF STEEL FRAMING AND LOAD BEARING WALLS TO PROVIDE FOR SAFETY OF THE STRUCTURE AND WORKMAN. BRACING TO REMAIN UNTIL NO LONGER REQUIRED FOR SAFE SUPPORT OF FRAME.

23. REFER TO BEAM SHORING SCHEDULE FOR REQUIRED TEMPORARY SHORING REQUIREMENTS OF COMPOSITE BEAMS AND LINTEL BEAMS.

24. COLUMN CAP AND BASE PLATES SHALL BE FULLY RIGID ALL AROUND TO COLUMN SHAFT WITH 5/8" FILLET WELDING UNLESS OTHERWISE NOTED.

25. ALL COLUMNS SHALL HAVE A MINIMUM OF 4 ANCHOR RODS SET ON A SQUARE PATTERN.

26. ALL COLUMN CAP PLATES SUPPORTING OR BEING CONNECTED TO OTHER MEMBERS SHALL BE 3/4" MINIMUM THICKNESS.

27. ALL OTHER COLUMN CAP PLATES NOT SUPPORTING OR BEING CONNECTED TO OTHER MEMBERS SHALL BE CAPABLE OF WITHSTANDING 1/2" MINIMUM THICKNESS.

28. SHEAR TAB PLATES ATTACHED TO COLUMN OR BEAMS SHALL BE 1/2" MINIMUM THICKNESS AND SHALL BE WELDED TO THE SUPPORT MEMBER WITH 5/8" CONTINUOUS FILLET WELDS BOTH SIDES.

29. STABILIZER PLATES FOR JOIST BOTTOM CHORDS AT COLUMNS OR BEAMS SHALL BE 3/4" X 8" X 0-8" MINIMUM AND SHALL BE SPOT WELDED TO COLUMN OR BEAM WITH 5/8" CONTINUOUS FILLET WELDS BOTH SIDES.

30. STABILIZER PLATES FOR JOIST BOTTOM CHORDS AT COLUMNS OR BEAMS SHALL BE 3/4" X 8" X 0-8" MINIMUM AND SHALL BE SPOT WELDED TO COLUMN OR BEAM WITH 5/8" CONTINUOUS FILLET WELDS BOTH SIDES.

31. UNLESS OTHERWISE NOTED PROVIDE #4 MINIMUM GROUT THICKNESS UNDER COLUMN BASE PLATES TO ALLOW FOR HEAVY LIFTING AND STANDARD PLAT WASHER TO BE PLACED ON EACH ANCHOR BOLT.

32. UNLESS OTHERWISE NOTED PROVIDE #4 MINIMUM GROUT THICKNESS UNDER THE UNDERSIDE OF THE COLUMN BASE PLATES TO ALLOW FOR HEAVY LIFTING AND STANDARD PLAT WASHER TO BE PLACED ON EACH ANCHOR BOLT.

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23. UNLESS OTHERWISE NOTED OR SPECIFIED PROVIDE #6 VERTICAL REINFORCING AT 24" OC FOR EXTERIOR MASONRY WALLS.

24. UNLESS OTHERWISE NOTED OR SPECIFIED PROVIDE #6 VERTICAL REINFORCING AT 48" OC FOR INTERIOR MASONRY WALLS.

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41. UNLESS OTHERWISE NOTED OR SPECIFIED PROVIDE #6 VERTICAL REINFORCING AT 24" OC FOR EXTERIOR MASONRY WALLS.

42. UNLESS OTHERWISE NOTED OR SPECIFIED PROVIDE #6 VERTICAL REINFORCING AT 48" OC FOR INTERIOR MASONRY WALLS.

43. UNLESS OTHERWISE NOTED OR SPECIFIED PROVIDE #6 VERTICAL REINFORCING AT 24" OC FOR EXTERIOR MASONRY WALLS.

44. UNLESS OTHERWISE NOTED OR SPECIFIED PROVIDE #6 VERTICAL REINFORCING AT 48" OC FOR INTERIOR MASONRY WALLS.

45. UNLESS OTHERWISE NOTED OR SPECIFIED PROVIDE #6 VERTICAL REINFORCING AT 24" OC FOR EXTERIOR MASONRY WALLS.

46. UNLESS OTHERWISE NOTED OR SPECIFIED PROVIDE #6 VERTICAL REINFORCING AT 48" OC FOR INTERIOR MASONRY WALLS.

47. UNLESS OTHERWISE NOTED OR SPECIFIED PROVIDE #6 VERTICAL REINFORCING AT 24" OC FOR EXTERIOR MASONRY WALLS.

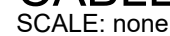
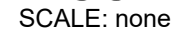
48. UNLESS OTHERWISE NOTED OR SPECIFIED PROVIDE #6 VERTICAL REINFORCING AT 48" OC FOR INTERIOR MASONRY WALLS.



SCALE: none



SCALE: none



SCALE: none



SCALE: none



SCALE: none



SCALE: none



SCALE: none



SCALE: none



SCALE: none



SCALE: none




SCALE: none



SCALE: none



SCALE: none

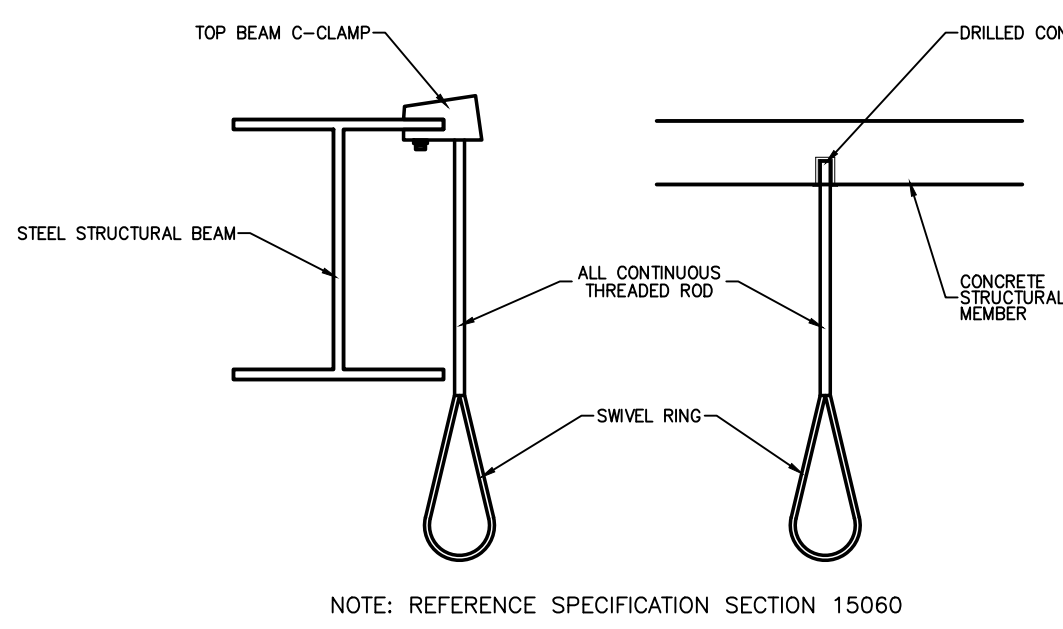
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S O U R C E of NC, P.A.

102-K2 Regency Blvd. Greenville, NC 27834
E-Mail Address: generalmail@engrsource.com
Voice (252) 438-5538 • Fax (252) 438-0482 • Fax (C-1073)

Addition to Elements

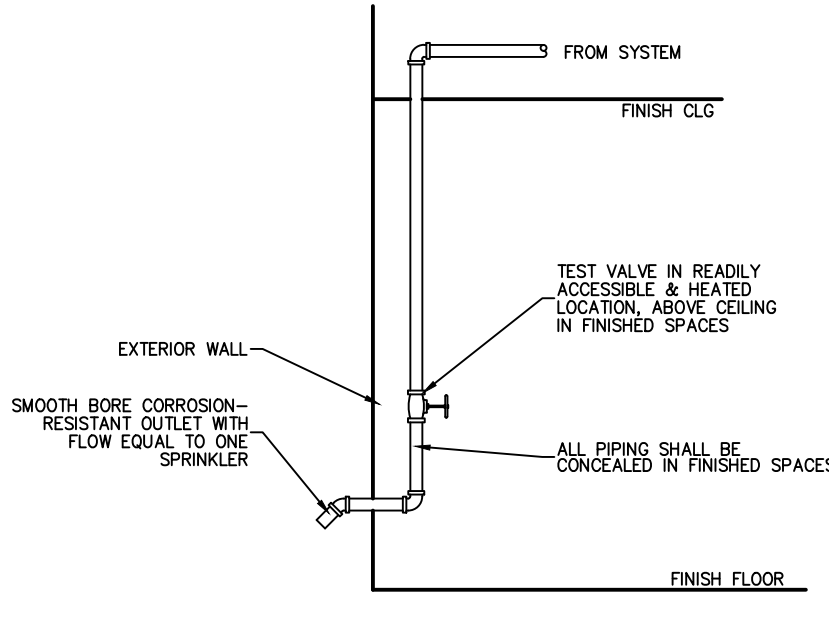
Addition to
Thanksgiving Elementary School
 Johnston County Schools
 Lynch Road / Johnston County / North Carolina

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2600 Meridian Drive / Greenville, NC 27834 / tel (252) 757-6700

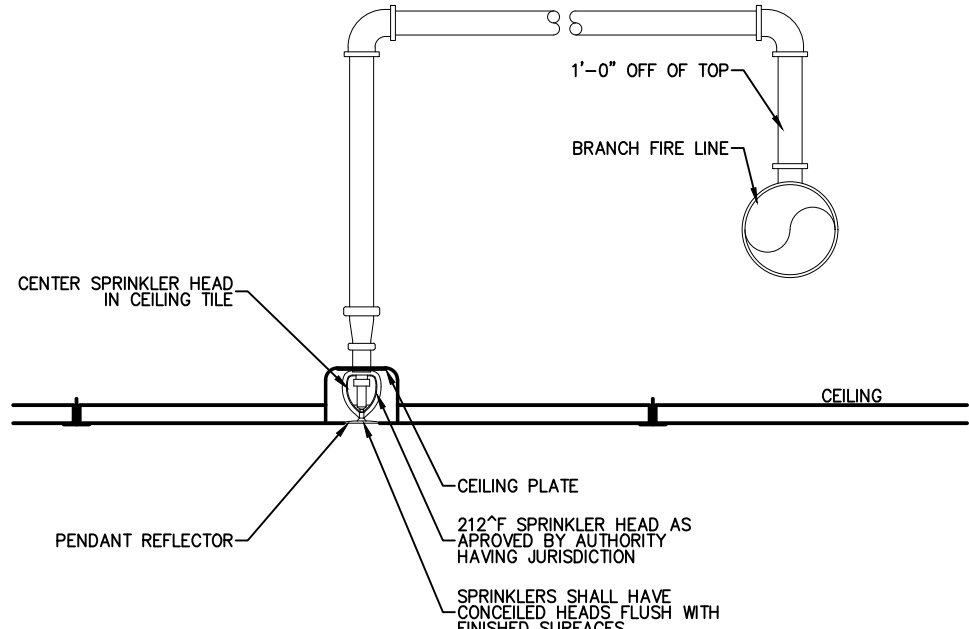
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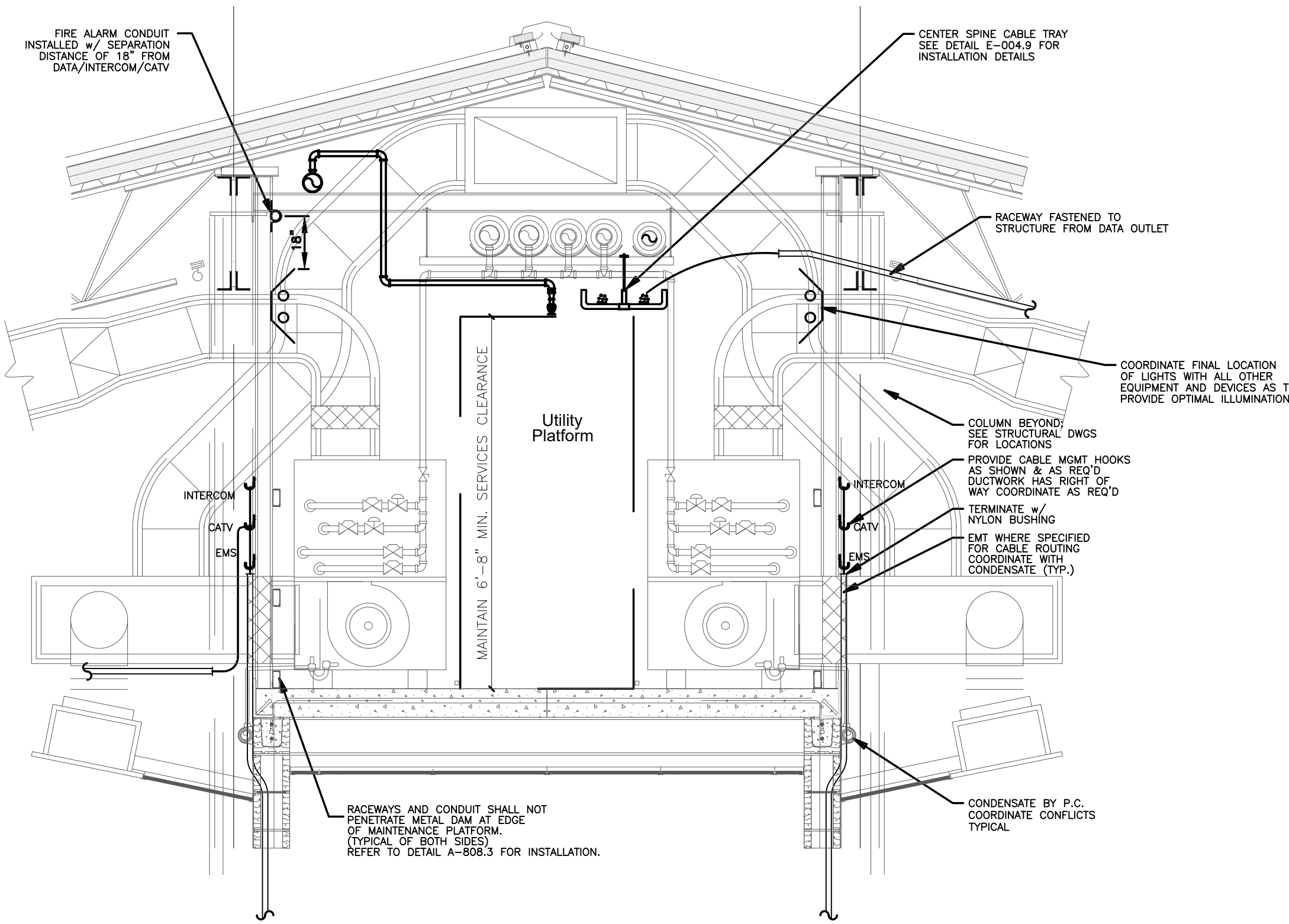
101.5 HANGER DETAILS
SCALE: none



101.4 SYSTEM TEST CONNECTION
SCALE: none

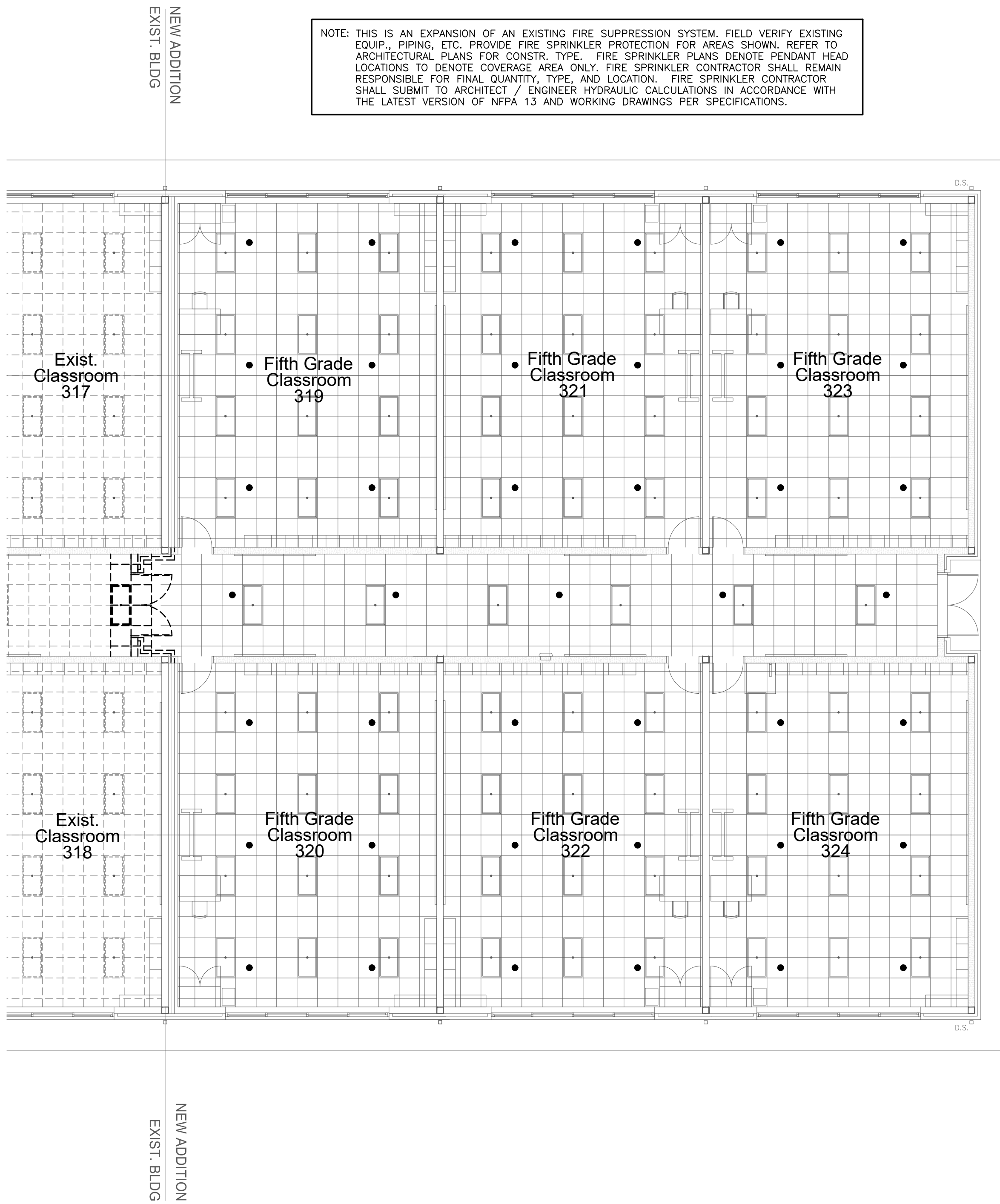


101.3 SPRINKLER HEAD DETAIL
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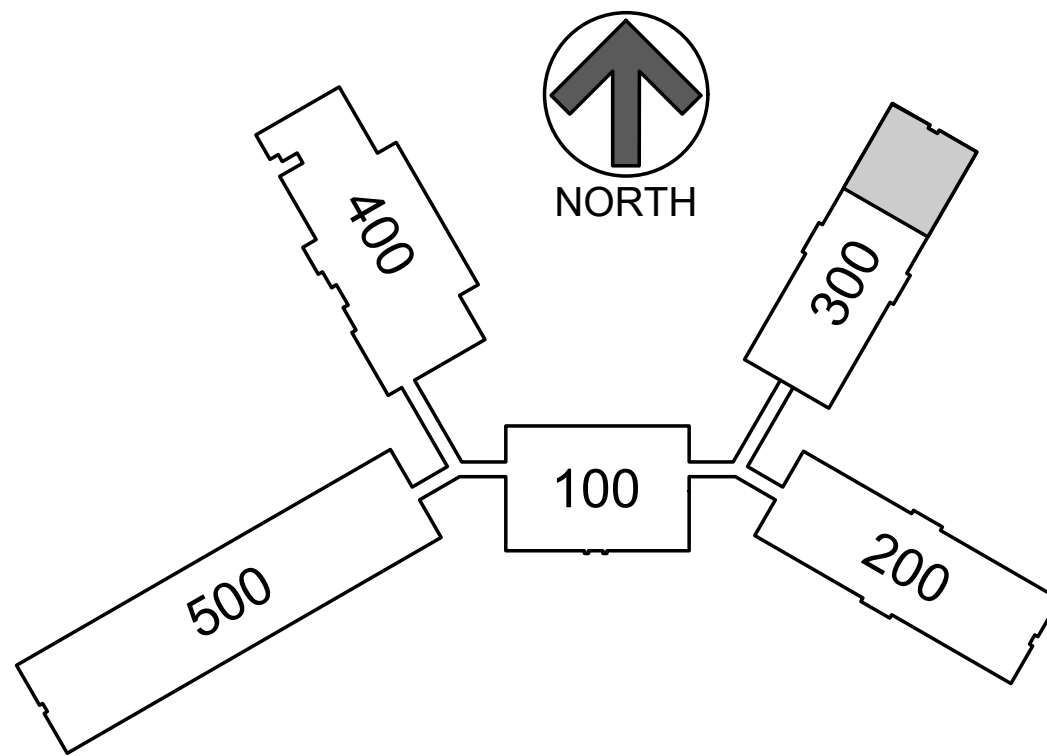


301.2 TYPICAL PLATFORM SECTION
SCALE: NS


CLASSROOM ADD'N DESIGN CRITERIA	
SYSTEM TYPE:	WET
CLASSIFICATION:	LIGHT HAZARD: CLASSROOMS
DENSITY:	REF. SPECS. DESIGN CRITERIA
FIRE AREA (SF):	6,450 SF (NEW ADD'N) 11,700 SF (EXIST 300 WING) 19,150 SF TOTAL FIRE AREA
MIN. FIRE FLOW PER NC FIRE CODE TABLE B105.1(2)	3,000 gpm
MIN. FLOW PER TABLE B105.2 (25% OF 1,000 min.)	1,000 gpm
DURATION PER TABLE B105.1(2)	3 HOURS
PIPE SIZING:	HYD CALCS
REMOTE AREA:	1500 sf
HOSE:	250 gpm
FIRE FLOW DATA	
MAIN SIZE:	EXISTING 8"
STATIC PRESS:	110 PSI
VOLUME:	1566.0 GPM
RESIDUAL PRESS:	94 PSI
LOCATION:	INFORMATION TAKEN FROM ORIGINAL FIRE SUPPRESSION PLANS DATED MAY - 2020
REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS	
NOTE: FIRE FLOWS MUST MEET NC FIRE CODE APPENDIX B FOR TYPE IIB CONSTRUCTION AND THE TOTAL SF OF BUILDING UNDER PROTECT. FIRE CONTRACTOR IS RESPONSIBLE FOR ADJUSTING/VERIFYING FIRE FLOW PRIOR TO BID & PROVIDING COMMITMENT LETTER FROM WATER UTILITY WITH SHOP DRAWING SUBMITTAL TO ENGINEER & ARI.	



301.1 FIRE SUPPRESSION PLAN: 300 ADDITION
SCALE: 1/8" = 1'-0"



ES25010
Project No.

ENGINEERING
SOURCES OF NC, PA


102-A2 Regency Blvd., Greenville, NC 27834
E-Mail Address: general@engsources.com
Mob (252) 438-0238 • Fax (252) 438-0402 • Fax (813) 913-1073

Seal of the State of North Carolina
Professional Engineer
D. Johnson
No. 02199
3/31/25
EXPIRATION DATE

FS
301

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22502

Date
March 2025

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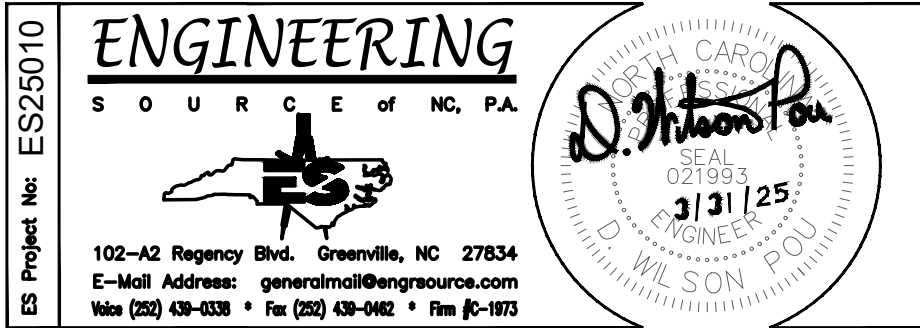
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D. Johnson
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3/31/25
EXPIRATION DATE

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Revision

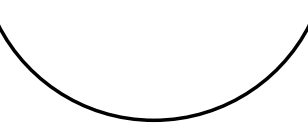
No.

Date



Project No.	22502
Date:	March 2025
Drawing no.	FS 310

Addition to
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 Johnston County Schools
 Lynch Road / Johnston County / North Carolina



	No.	Date	Revision

3. THE ENTIRE PLUMBING SYSTEM SHALL BE IN ACCORDANCE WITH N.C. PLUMBING CODE AND LOCAL PLUMBING CODE.
4. ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADE PRIOR TO INSTALLATION. CONTRACTOR SHALL COORDINATE ROUTING OF ALL PIPING WITH EXISTING CONDITIONS AND SHALL PROVIDE ANY NECESSARY OFFSETS, TEES, REROUTING, ETC. REQUIRED FOR A COMPLETE AND COORDINATED INSTALLATION.
5. THE PLUMBING CONTRACTOR SHALL COORDINATE THE INSTALLATION OF PLUMBING FIXTURES & EQUIPMENT WITH OTHER PRIME CONTRACTORS PRIOR TO INSTALLATION TO AVOID CONFLICTS. CONTACT ARCHITECT IF ALTERNATE INSTALLATION METHOD IS REQUIRED.
6. THE LOCATIONS OF KNOWN EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE METHOD & HAVE NOT BEEN VERIFIED. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF UNDERGROUND UTILITIES PRIOR TO COMMENCING WORK & SHALL PROVIDE ANY DAMAGE INCURRED BY FAILURE TO DO SO. CALL UTILITY LOCATOR SERVICE 48 HOURS BEFORE EXCAVATION (1-800-632-4949). ALSO CONTACT SCHOOL MAINTENANCE DEPARTMENT AND USE PRIVATE UTILITY LOCATOR SERVICE AS NEED TO IDENTIFY ALL EXISTING UNDERGROUND UTILITIES.
7. THESE PLANS ARE DIAGRAMMATIC. DO NOT SCALE THESE DRAWINGS. REFER TO LARGEST SCALE ARCHITECTURAL DRAWINGS. CONTRACTOR SHALL PROVIDE ALL NECESSARY OFFSETS, TEES, ELBOWS, ETC. FOR A COMPLETE WORKING PLUMBING SYSTEM.
8. THE CONTRACTOR SHALL OBTAIN AND PAY ALL FEES RELATED TO PERMITTING, INSPECTIONS, TAPS, ETC.
9. CONTRACTOR SHALL COORDINATE ANY PLUMBING SYSTEM REQUIRING SHUTDOWN WITH THE OWNER 48 HOURS IN ADVANCE.
10. HVAC DUCTWORK HAS RIGHT-OF-WAY OVER PLUMBING PIPES; COORDINATE AS REQUIRED. NO PIPING SHALL BE INSTALLED OVER ELECTRICAL EQUIPMENT SUCH AS SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, ETC., PER NEC ARTICLE 110.
11. ALL SUPPLY, DRAIN, AND VENT PIPING SHALL BE CONCEALED (EXCEPT AT FIXTURES) UNLESS OTHERWISE NOTED. ALL PIPE CONTAINING LIQUIDS INSIDE BUILDING ARE TO BE LOCATED WITHIN THE "INSULATION ENVELOPE".
12. ALL DOMESTIC WATER PIPING SHOWN IS ABOVE, BETWEEN FLOOR JOIST/WITHIN WALLS, AND IN CRAWL SPACES UNLESS OTHERWISE NOTED.
13. ALL DOMESTIC WATER PIPING SHALL BE TYPE K HARD DRAWN COPPER ABOVE GRADE, SOFT ANNEALED TYPE K BELOW WITH NO JOINTS UNDER SLAB. INSULATE HOT AND COLD WATER PIPING AS SPECIFIED. PRESSURE TEST SYSTEM AT 100 PSIG FOR 24 HOURS OR 150 PSIG FOR 4 HOURS. COPPER TUBING BELOW GRADE SHALL BE UTILIZED AS THE ELECTRICAL SYSTEM GROUNDING ELECTRODE.
14. ALL WATER PIPING SHALL BE INSULATED WITH PRE-FORMED FIBERGLASS TYPE INSULATION WITH THE FLAME DENSITY RATING NOT EXCEEDING 25 & THE SMOKE DENSITY RATING NOT EXCEEDING 50. THICKNESS FOR COLD WATER PIPING SHALL BE 1/2" THICK. THICKNESS FOR HOT WATER & RETURN PIPING SHALL BE 1" THICK. INSTALL SADDLES AS REQUIRED IN ALL LOCATIONS TO PREVENT COMPRESSION OF INSULATION.
15. ALL BRANCH LINES SHALL HAVE SHUT-OFF VALVES. ALL DOMESTIC WATER BALL VALVES SHALL BE BRASS BODY, FULL PORT, CHROME PLATED BALL. TEFLON SEATS 150 # WSP, FOR SIZES 1/2" THRU 2". PROVIDE VALVE HANDLE EXTENSIONS AS REQUIRED FOR INSULATION.
16. ALL SANITARY SEWER PIPING SHOWN IS BELOW SLAB/WITHIN WALLS UNLESS NOTED OTHERWISE. ALL SANITARY VENT PIPING SHOWN IS ABOVE CEILING/WITHIN WALLS UNLESS NOTED OTHERWISE.
17. ALL WASTE AND VENT PIPING SHALL BE SCHEDULE 40 PVC-DWV CONFORMING TO ASTM D 2665. ALL JOINTS SHALL BE SOLVENT WELDED TYPE CONFORMING TO ASTM D 2665/2949/3034, ASTM F 891, CSA B182.2, CSA CAN/CSA-B182.4
18. VENT LINES SHALL SLOPE UP TO VTR.
19. ALL PIPING SYSTEMS SHALL BE SUPPORTED AS REQUIRED BY NC PLUMBING CODE AND MANUFACTURERS RECOMMENDATIONS.
20. ALL PIPING PENETRATIONS THRU NEW AND EXISTING WALLS SHALL BE SEALED TO EQUAL RATING OF THE NEW/EXISTING WALL.
21. PROVIDE CHROME-PLATED ESCUTCHEON PLATES WHERE PIPES PASS THROUGH FINISHED WALLS, CEILINGS, OR FLOORS.
22. ALL PLUMBING SYSTEMS SHALL BE TESTED AS REQUIRED PER N.C. PLUMBING CODE.
23. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL UNDER SLAB PIPING WITH ALL STRUCTURAL FOUNDATIONS, P.C. SHALL COORDINATE ALL UNDER SLAB PLUMBING WITH ELEVATION INVERTS WITH THE SITE UTILITY INVERTS.
24. ALL EXPOSED WATER SUPPLY AND WASTE LINES UNDER OPEN SINKS/LAVATORIES SHALL HAVE PROTECTIVE DEVICES INSTALLED TO MEET LATEST NCBC AND ADA REQUIREMENTS.
25. THE ENTIRE PLUMBING SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH NC PLUMBING CODE.
26. ROOF DECKING SHALL NOT BE PENETRATED TO SUPPORT WASTE LINES, VENT LINES, AND WATER SUPPLY LINES.
27. WATER HEATERS SHALL COMPLY WITH N.C. ENERGY CODE SECTION 504 OF THE NC BUILDING CODE.
28. WATER CLOSETS SHALL BE MOUNTED ON CAST IRON FLANGES.
29. CLEANOUTS & FLOOR DRAIN STRAINERS SHALL BE INSTALLED FLUSH WITH FINISH FLOOR ELEVATION. FLOOR DRAINS SHALL BE INSTALLED TO PROVIDE PROPER DRAINAGE OF SPACE.
30. ALL FLOOR DRAINS, HUB DRAINS, AND FLOOR SINKS SHALL HAVE TRAP PRIMERS OR HOSE BIBBS, INSTALLED AS SPECIFIED IN THE N.C. PLUMBING CODE SECTION 412.6.
31. P.C. SHALL VERIFY AND SET THE MAXIMUM OUTLET TEMPERATURES AT ALL NON-COMMERCIAL KITCHEN EQUIPMENT INCLUDING HAND SINKS LOCATED IN THE KITCHEN TO NOT EXCEED 110°F BY INSTALLATION OF POINT OF USE ANTI-SCALD MIXING VALVES IF NECESSARY.
32. ALL ACCESS COVERS INCLUDING BUT NOT LIMITED TO IN-GRADE CLEANOUTS, MANHOLES, AND WATER METER BOXES SHALL BE FLUSH WITH FINISHED GRADE UNLESS OTHERWISE SPECIFIED
33. P.C. SHALL PROTECT ALL PLUMBING PIPE AS IT COMES UP THROUGH CONCRETE PER SECTION 305.1 OF THE N.C. PLUMBING CODE.
34. ALL PLUMBING CONTRACTOR PENETRATING FIRE-RATED SURFACES AND NON-RATED PARTITIONS SHALL BE SEALED PER FIRE STOPPING DETAIL ON SHEET FP-001 OR THE LATEST EDITION OF THE UL FIRE RESISTANCE DIRECTORY, VOLUME 2.
35. "PROVIDE" IS DEFINED AS FURNISH AND INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS.
36. PLUMBING CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL EXTERNAL DISCONNECTS THAT ARE REQUIRED FOR EQUIPMENT PROVIDED UNDER THIS CONTRACT. PLUMBING CONTRACTOR SHALL FURNISH ALL REQUIRED FUSES FOR ALL FUSED DISCONNECT SWITCHES. COORDINATE DISCONNECT AND FUSE INSTALLATION WITH ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING DISCONNECT SWITCHES AND FUSES. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL LINE SIDE WIRING AND CONDUIT TO EXTERNALLY OR INTERNALLY MOUNTED DISCONNECTS AND DISCONNECT SWITCHES. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR EXTERNALLY MOUNTED DISCONNECT SWITCHES TO PLUMBING EQUIPMENT. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINAL ELECTRICAL CONNECTIONS TO PLUMBING EQUIPMENT. SEE "PLUMBING EQUIPMENT ELECTRICAL CONNECTION DETAIL".
37. PLUMBING CONTRACTOR SHALL PROVIDE MARKING TAPE AND TRACER WIRE FOR ALL NONE METALLIC PIPING BELOW GRADE. TAPE SHALL BE AT LEAST 3" WIDE AND SHALL BE LABELED FOR THE SPECIFIC TYPE PIPE. TAPE SHALL BE 24" BELOW GRADE. TRACER WIRE SHALL BE INSTALLED ON NON-METALLIC SEWER PIPE AND SHALL MEET REQUIREMENTS OF SECTION 306.2.4. TRACER WIRE SHALL BE MINIMUM 14 AWG AND RATED FOR DIRECT BURIAL.
38. DISCONNECT SWITCHES INDICATED TO BE PROVIDED BY PLUMBING CONTRACTOR SHALL BE HEAVY DUTY NEMA-1 FOR INTERIOR APPLICATIONS AND HEAVY DUTY NEMA-3R FOR EXTERIOR INSTALLATIONS. SEE ALSO DIVISION 16 SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
39. COMPRESSED AIR PIPING SHALL BE TYPE "K" SEAMLESS HARD DRAWN ANNEALED COPPER OR RIGID ALUMINUM ALLOY. COMPRESSED AIR SHALL BE PAINTED BLUE IN COLOR AND SHALL HAVE BLUE LABELS WITH WHITE LETTERING AFFIXED THAT READ "COMPRESSED AIR". COMPRESSED AIR PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH THE CURRENT NC PLUMBING CODE AND MANUFACTURER'S RECOMMENDATIONS.

Diagram illustrating the installation of traffic-duty flush brass cleanout in concrete and paved areas. The diagram shows a cross-section of the cleanout assembly. Labels include:

- PROVIDE TRAFFIC-DUTY FLUSH BRASS CLEANOUT IN CONCRETE AND PAVED AREAS
- FINISH GRADE (ASPHALT)
- RECESSED BRASS CLEANOUT CAP
- FINISH GRADE
- GROUT AROUND PIPE
- ROUND PRECAST CONCRETE GRADE COLLAR
- CONCRETE COLLAR
- COMBINATION Y AND 1/8 BEND
- LONG RADIUS ELBOW

Diagram illustrating the installation of a sewer pipe, showing the relationship between the pipe, bedding, backfill, and finished grade.


Labels and Dimensions:


- FINAL BACKFILL SEE SPECIFICATIONS:** Indicated on the left side of the diagram.
- INITIAL BACKFILL MATERIAL, 6" LIFTS SEE SPECIFICATIONS:** Indicated on the left side of the diagram.
- STONE BEDDING SEE SPECIFICATIONS:** Indicated on the left side of the diagram.
- FINISH GRADE:** Indicated at the top of the diagram.
- PROVIDE LOCATOR WIRE INSTALLED 18" BELOW FINISHED GRADE, CENTERED OVER PIPE:** Indicated by a line pointing to a horizontal line above the pipe.
- SEWER PIPE:** The central circular element.
- SPRING LINE:** Indicated on the right side of the diagram.
- PROVIDE 6" # 57 STONE BEDDING 3" SAND UNDER BOTTOM OF PIPE:** Indicated by a line pointing to the bedding layer below the pipe.
- Dimensions:**
 - Vertical dimensions on the right: 18" (Locator Wire to Finish Grade), 12" (Finish Grade to Spring Line), 5" (Spring Line to Stone Bedding), and 6" (Stone Bedding to Initial Backfill).
 - Horizontal dimensions at the bottom: 6" MIN. PIPE O.D. (Left), 6" MIN. PIPE O.D. (Right), 12" MIN. PIPE O.D. (Left), and 12" MIN. PIPE O.D. (Right).

ES25010
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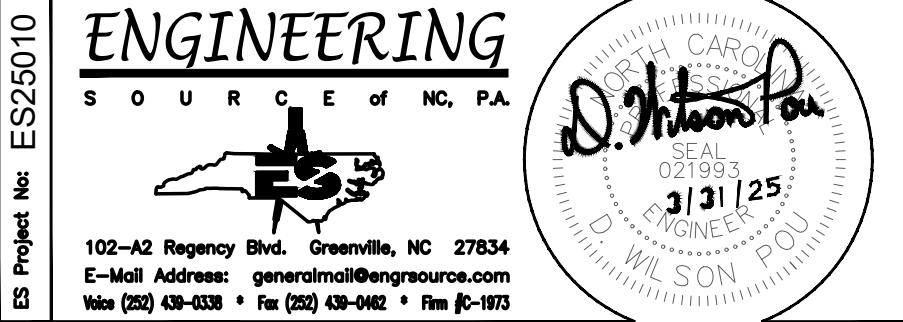


102-A2 Regency Blvd. Greenville, NC 27834

E-Mail Address: generalinfo@engsource.com

Yale (252) 438-0338 • Fax (252) 438-0462 • Fils (7-1873)

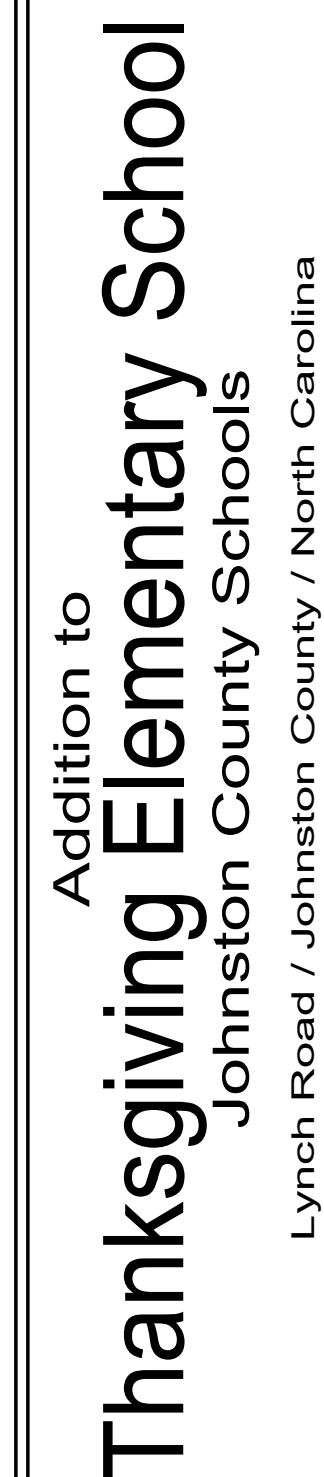


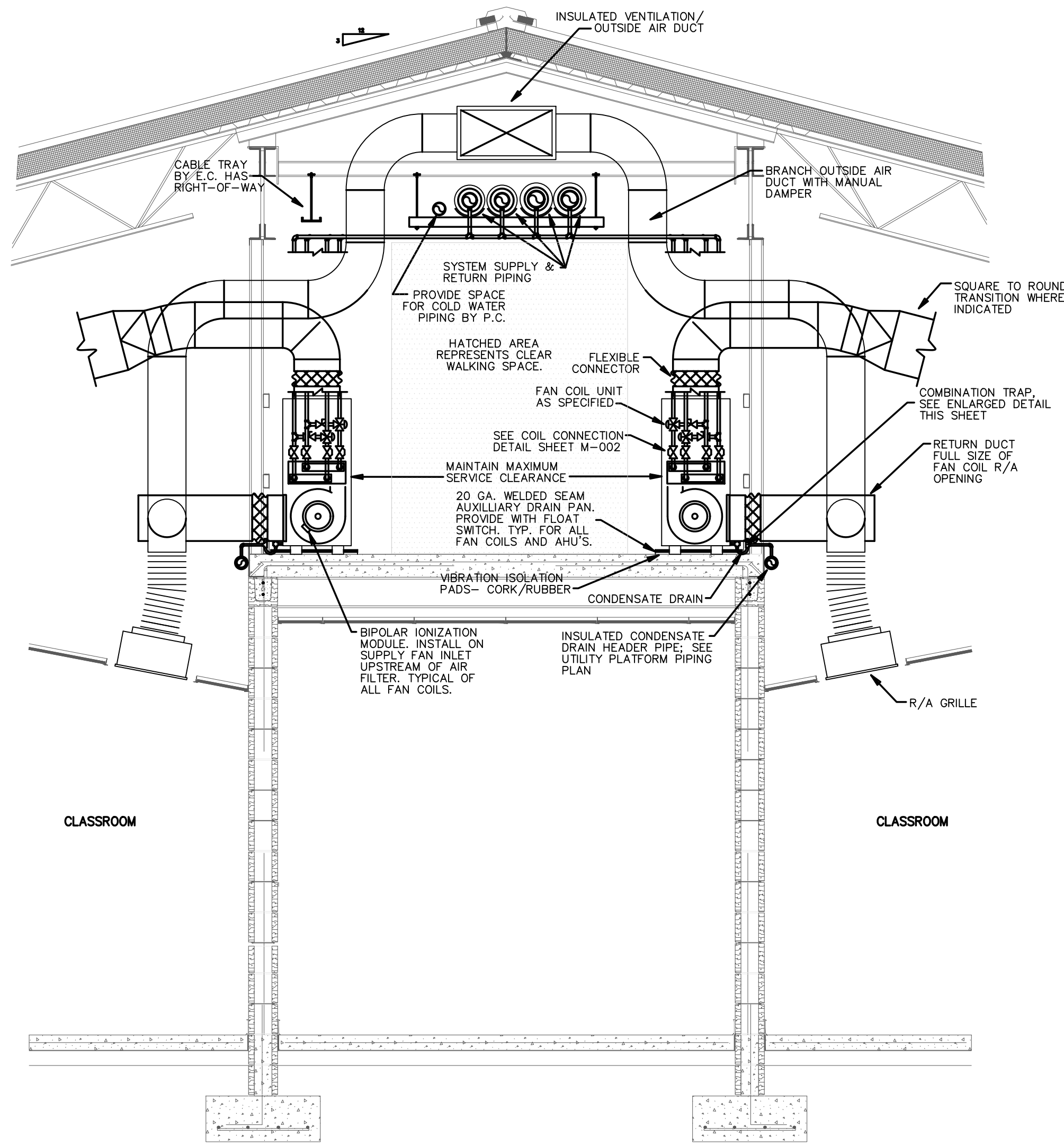


Project No.	22502
Date:	March 2025
Drawing no.	P 310

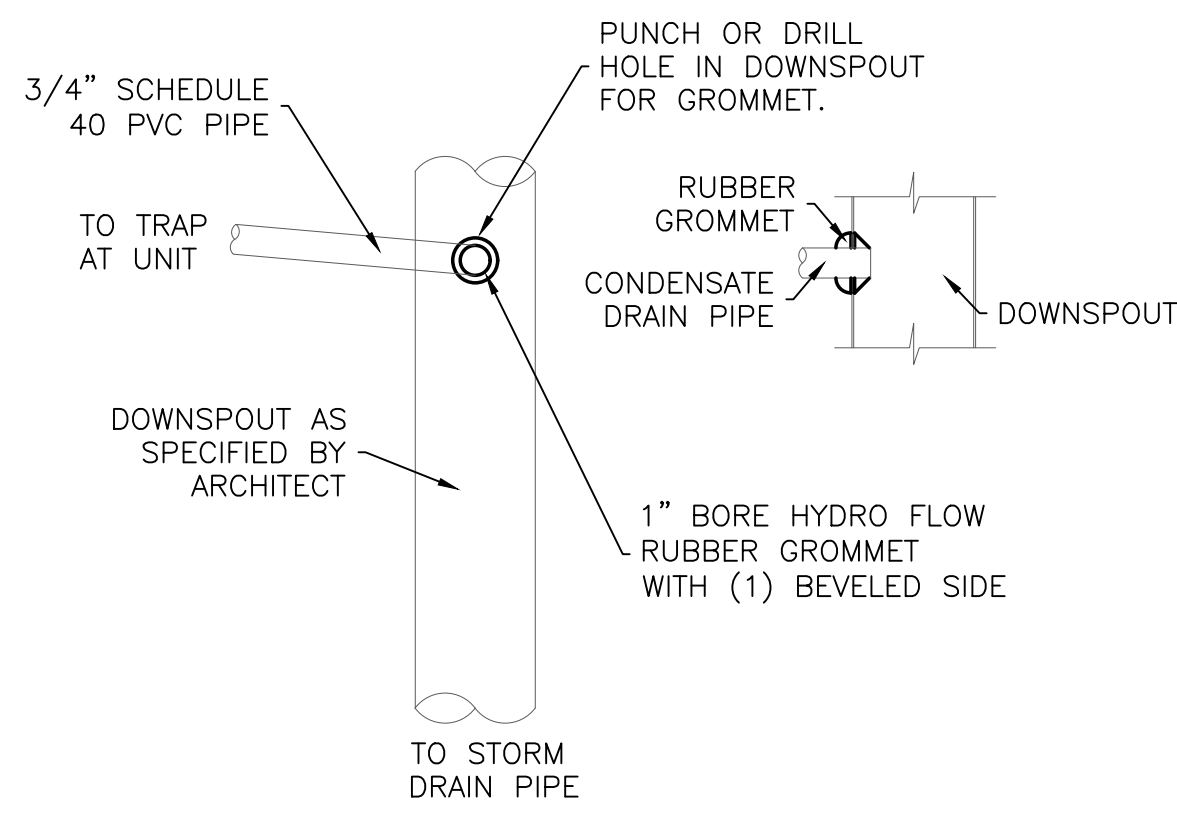
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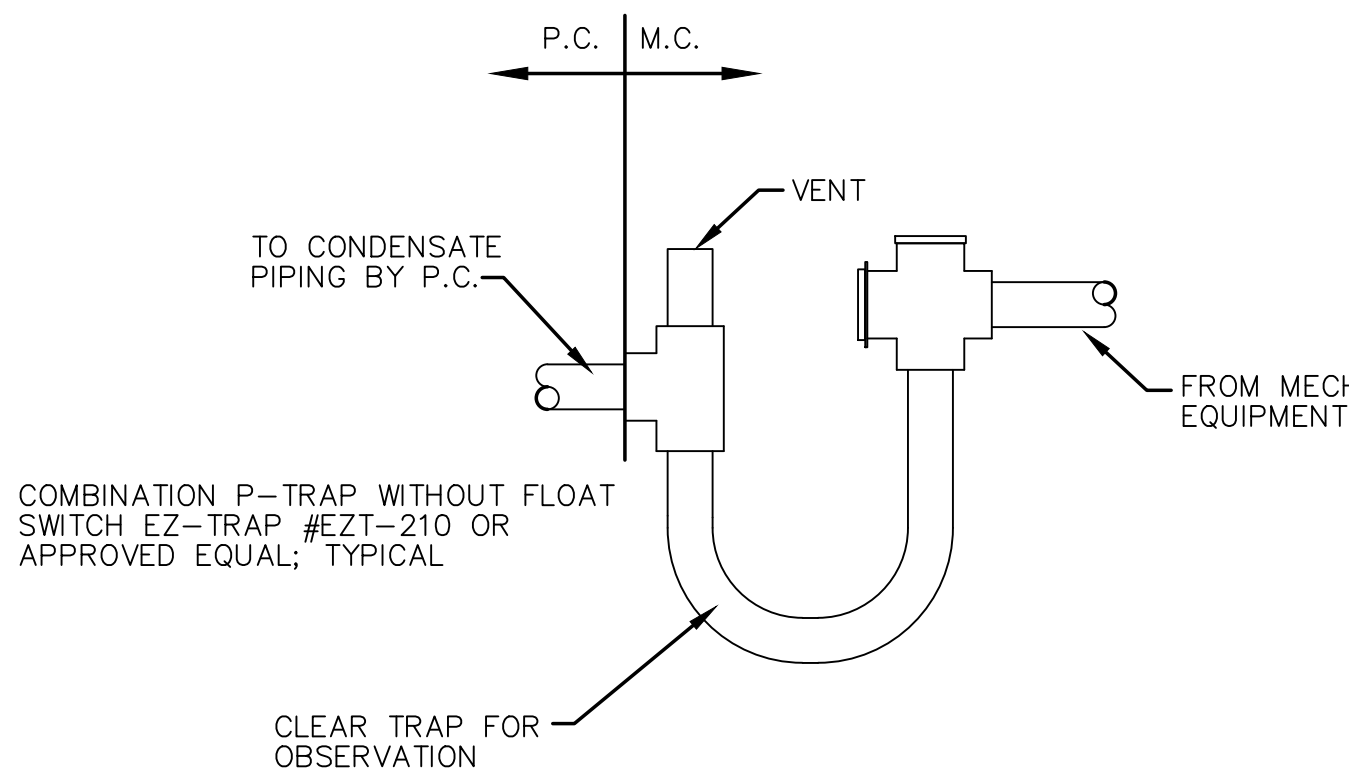




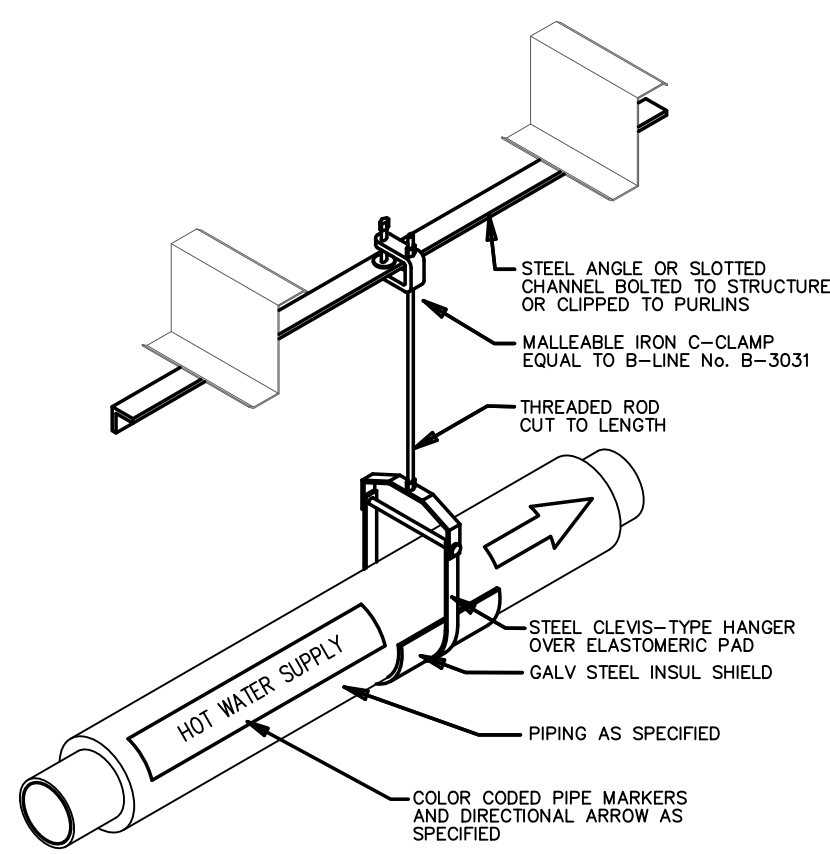
004.1 SECTION AT PLATFORMS
SCALE: N.T.S.



004.5 CONDENSATE CONNECTION DETAIL
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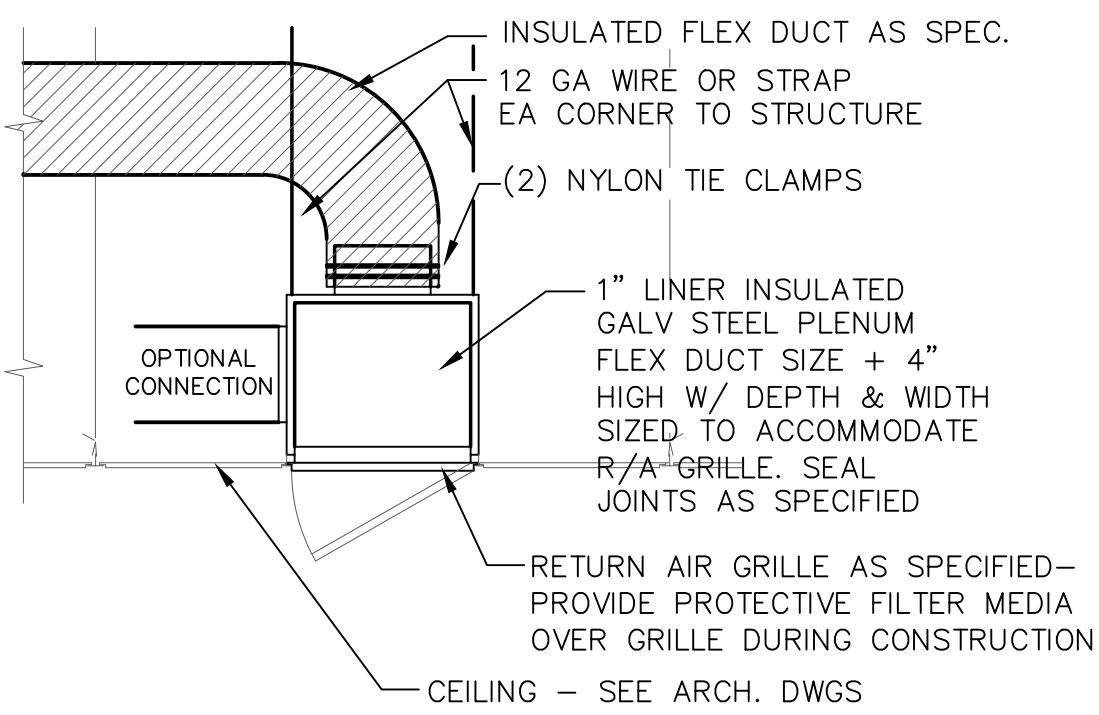


004.9 CONDENSATE TRAP DETAIL
SCALE: N.T.S.

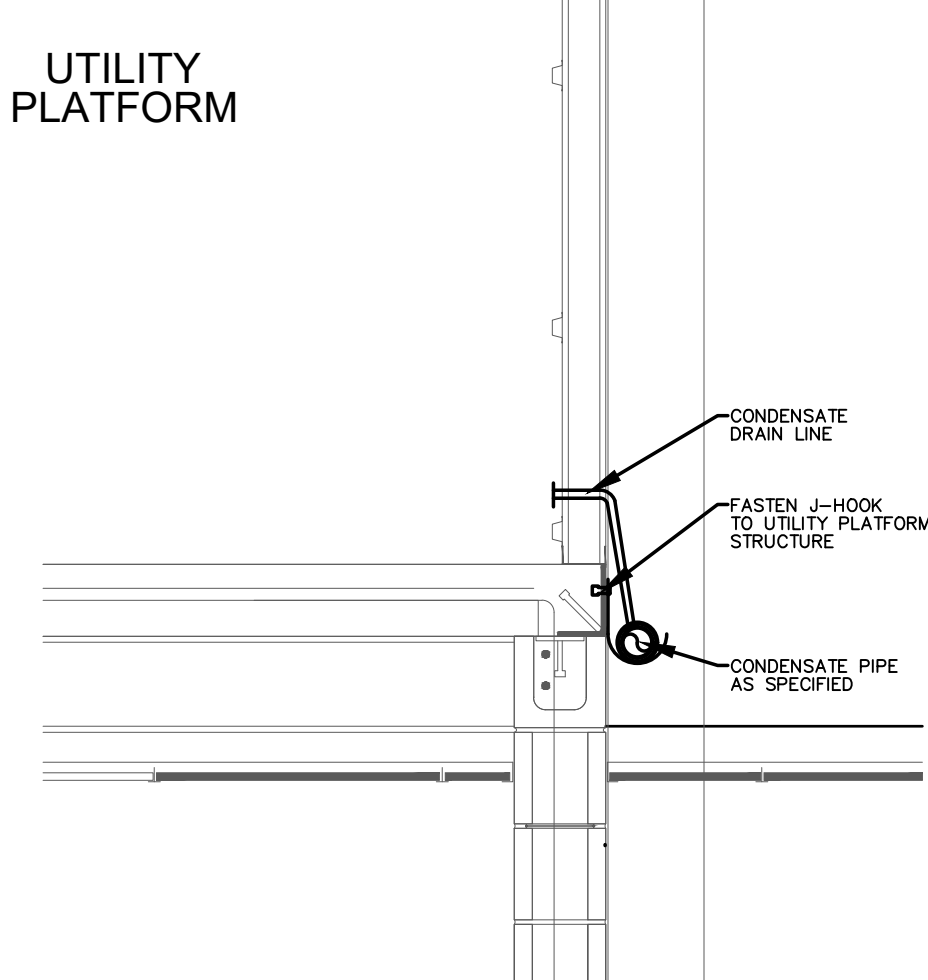


004.2 HTDRONIC PIPE HANGAR DETAIL
SCALE: N.T.S.

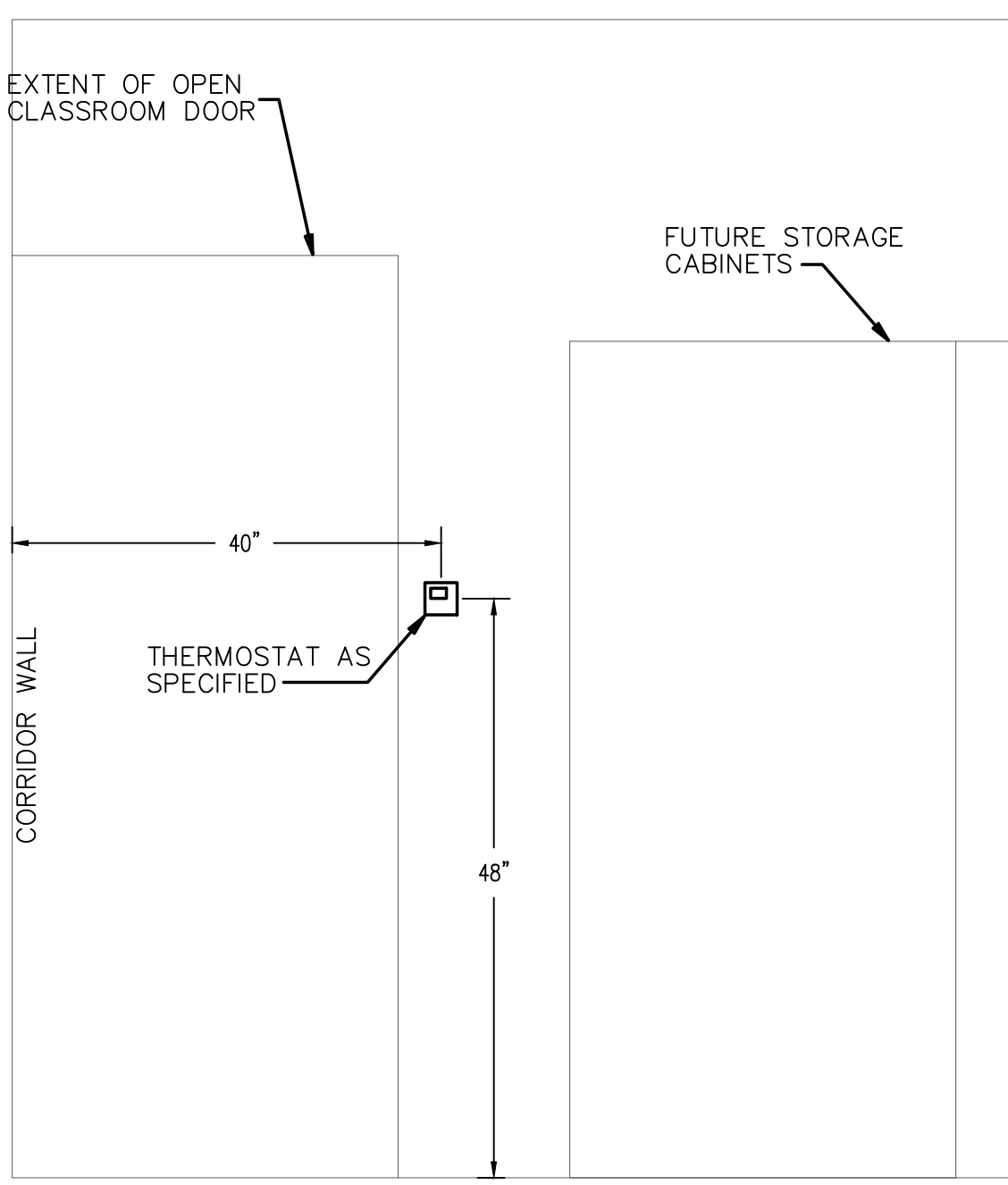
PIPE SIZE	SPACING	ROD
< 1"	6'-0"	1/4" DIA
1 to 1 1/2"	8'-0"	3/8" DIA
1 1/2 to 2"	10'-0"	3/8" DIA
2" to 3"	12'-0"	1/2" DIA
4" & 5"	12'-0"	5/8" DIA
6"	12'-0"	3/4" DIA



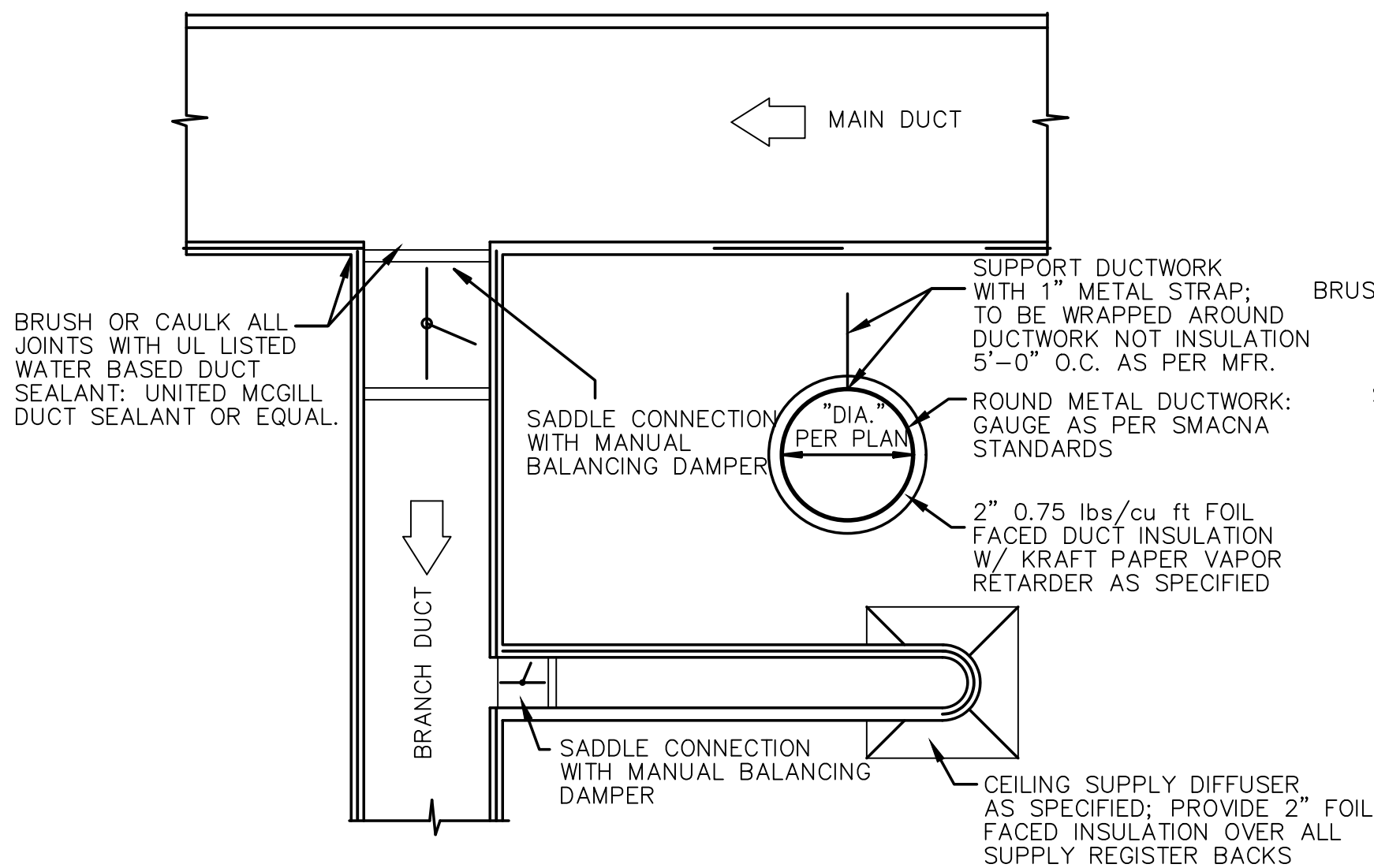
004.6 RETURN AIR PLENUM DETAIL
SCALE: N.T.S.



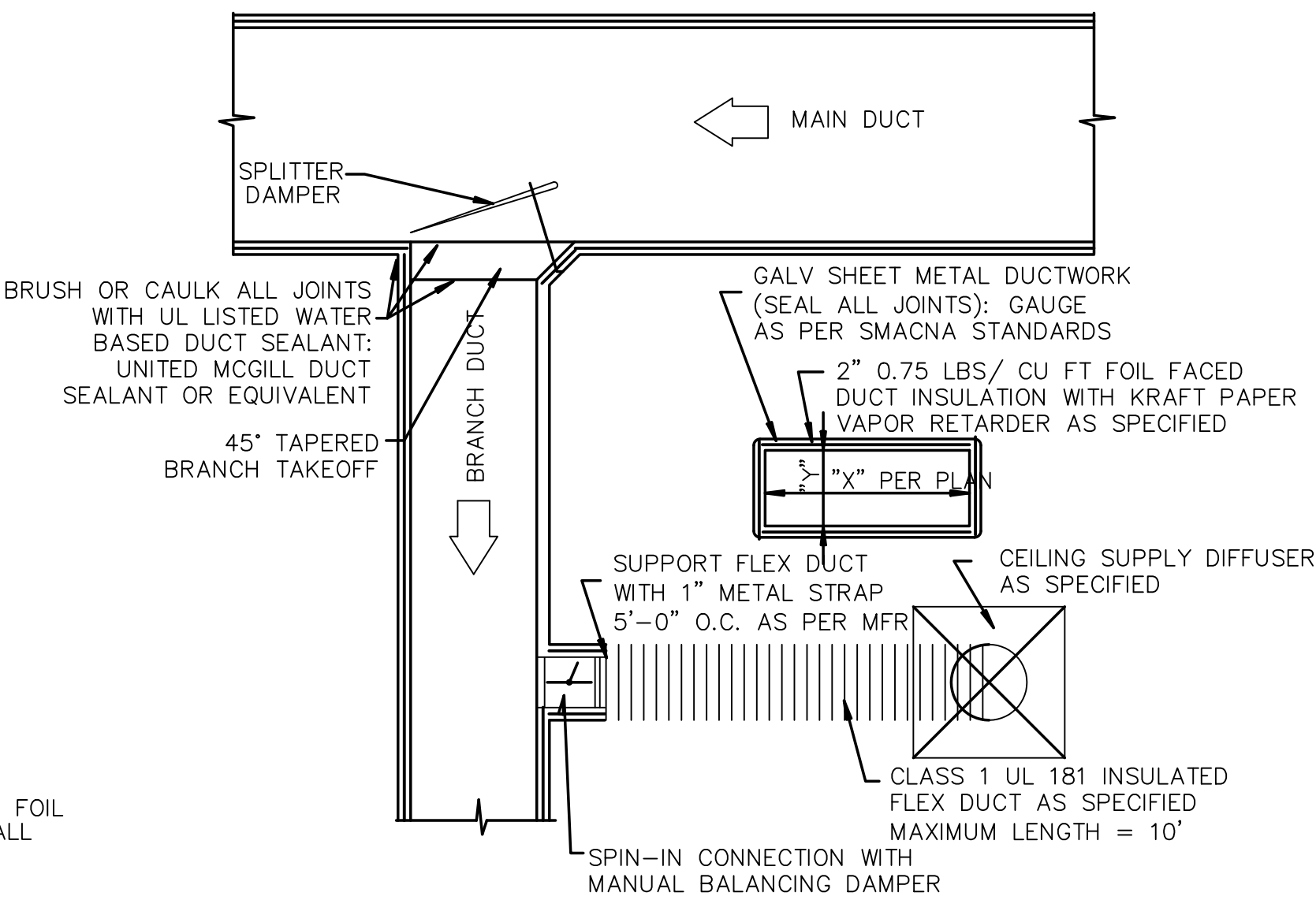
004.3 CONDENSATE PIPE DETAIL
SCALE: N.T.S.



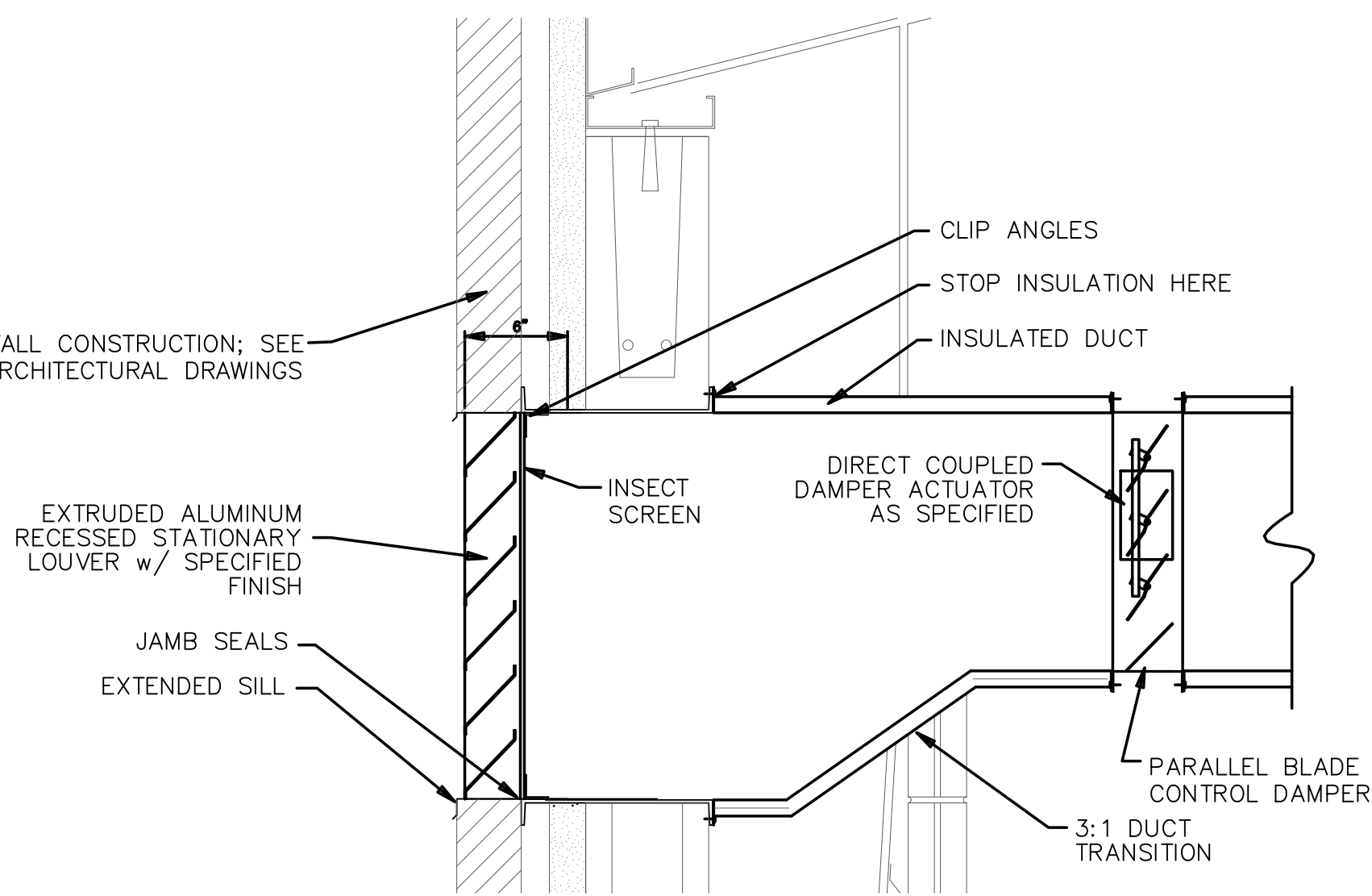
004.4 THERMOSTAT INSTALLATION DETAIL
SCALE: N.T.S.



004.7 ROUND DUCT CONSTRUCTION
SCALE: N.T.S.



004.8 RECT. DUCT CONSTRUCTION
SCALE: N.T.S.



004.10 OUTSIDE AIR LOUVER DETAIL
SCALE: N.T.S.

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Date: March 2025
Drawing no. **M 004**

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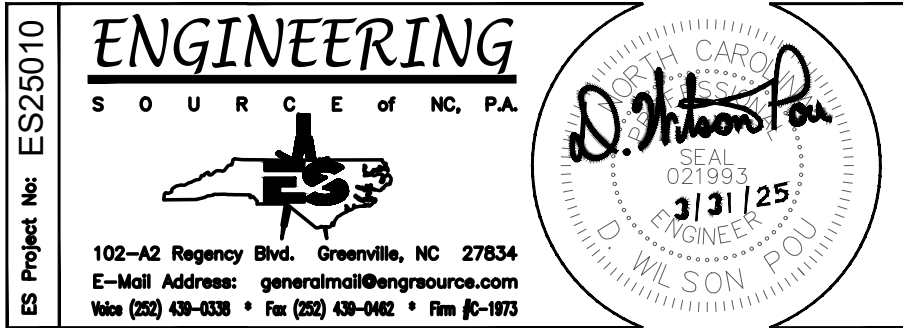
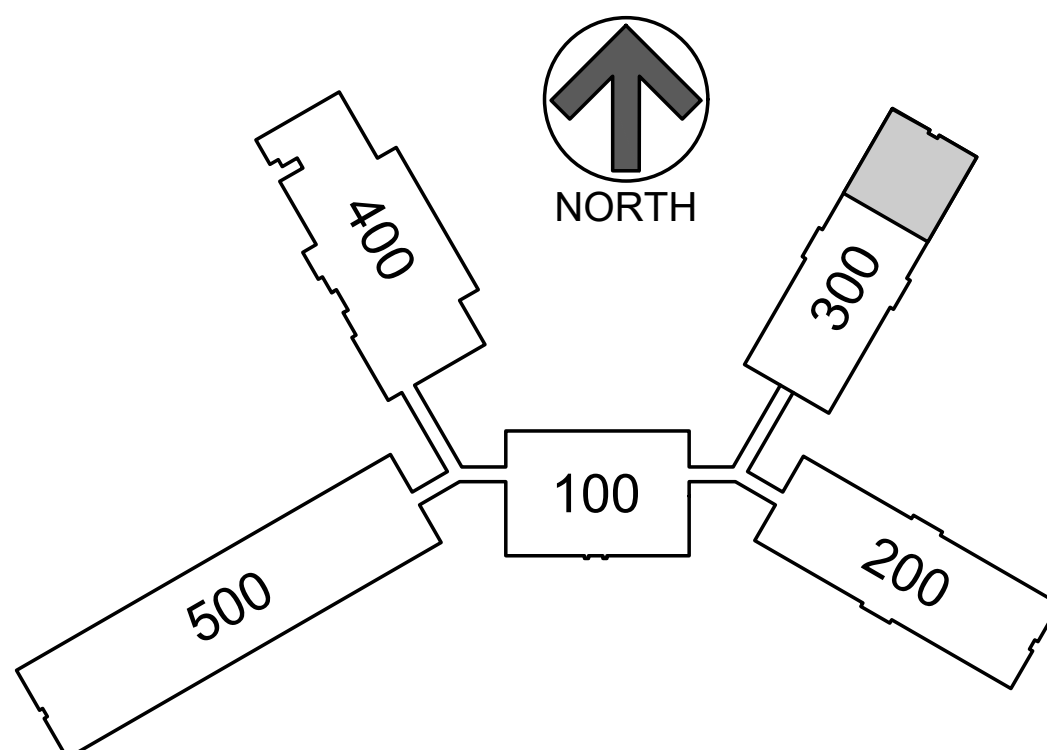
ADDITION TO
Thanksgiving Elementary School
Johnston County Schools
Lynch Road / Johnston County / North Carolina

Project No. ES25010

ENGINEERING
SOURCE OF NC, P.A.

102-A2 Regency Blvd., Greenville, NC 27834
E-Mail Address: general@engsource.com
Tel (252) 438-0238 • Fax (252) 438-0402 • Fax (252) 438-0402

3/31/25



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Thanksgiving Elementary School
Addition to
Johnston County Schools
Lynch Road / Johnston County / North Carolina

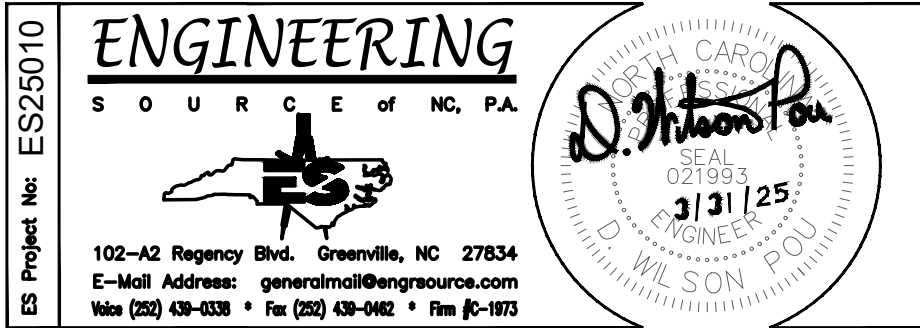
Project No. 22502

Date: March 202

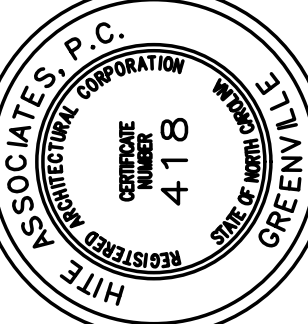
Drawing no.

M
301[illegible]

Hite associates
ARCHITECTURE / PLANNING / TECHNOLOGY

M
310

Addition to
Thanksgiving Elementary School
 Johnston County Schools
 Lynch Road / Johnston County / North Carolina



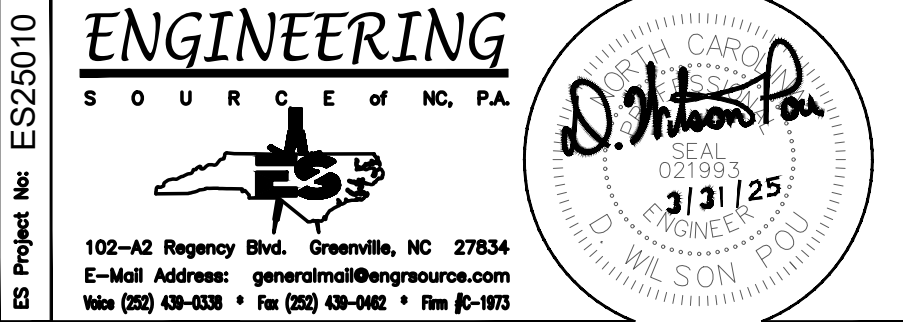
Hite associates
ARCHITECTURE / PLANNING / TECHNOLOGY
2600 Meridian Drive / Greenville, NC 27834 / tel (252) 757-0333

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PANELBOARD SCHEDULE - '3PB'																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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PANELBOARD SCHEDULE - '3C'																												
MAIN: 100A MCB					VOLTAGE: 208/120					PHASE: 3					WIRE: 4					MOUNTING SURFACE					A/C: 22,000		NOTES:	
CKT #	BKR	TRIP	POLE	WIRE SIZE	COND. SIZE	DESCRIPTION	LOAD (KVA)					PHASE					LOAD (KVA)					COND. SIZE	WIRE	POLE	BKR	CKT #		
							LTG	REC	MTR	A/C	HTG	KIT	MISC	A/C	HTG	KIT	MISC	DESCRIPTION										
1	20	1	12	3/4"		COMPUTER 301	0.4					0.3							0.3				3/4"	12	1	20	2	
3	20	1	12	3/4"		SMARTBOARD 301						0.5							0.5				3/4"	12	1	20	4	
5	20	1	12	3/4"		COMPUTER 303	0.4					0.3							0.3				3/4"	12	1	20	6	
7	20	1	12	3/4"		SMARTBOARD 303						0.5							0.5				3/4"	12	1	20	8	
9	20	1	12	3/4"		COMPUTER 305	0.4					0.3							0.3				3/4"	12	1	20	10	
11	20	1	12	3/4"		SMARTBOARD 305						0.5							0.5				3/4"	12	1	20	12	
13	20	1	12	3/4"		COMPUTER 307	0.4					0.3							0.3				3/4"	12	1	20	14	
15	20	1	12	3/4"		SMARTBOARD 307						0.5							0.5				3/4"	12	1	20	16	
17	20	1	12	3/4"		COMPUTER 312	0.4					0.3							0.3				3/4"	12	1	20	18	
19	20	1	12	3/4"		SMARTBOARD 312						0.5							0.5				3/4"	12	1	20	20	
21	20	1	12	3/4"		COMPUTER 317	0.4					0.3							0.3				3/4"	12	1	20	22	
23	20	1	12	3/4"		SMARTBOARD 317						0.5							0.5				3/4"	12	1	20	24	
25	20	1	12	3/4"		**COMPUTER 319	0.4					0.3							0.3				3/4"	12	1	20	26	
27	20	1	12	3/4"		**SMARTBOARD 319						0.5							0.5				3/4"	12	1	20	28	
29	20	1	12	3/4"		**COMPUTER 321	0.4					0.3							0.3				3/4"	12	1	20	30	
31	20	1	12	3/4"		**SMARTBOARD 321						0.5							0.5				3/4"	12	1	20	32	
33	20	1	12	3/4"		**COMPUTER	0.4					0.3							0.3				3/4"	12	1	20	34	
35	20	1	12	3/4"		**SMARTBOARD						0.5							0.5				3/4"	12	1	20	36	
37	20	3	12	3/4"		TVSS																	3/4"	12	1	20	38	
39																							3/4"	12	1	20	40	
41																												
LIGHTING (KVA)							0.0				0.0	3.2	0.0	0.0	0.0	0.0	7.2		0.0	3.6	0.0	0.0	0.0	6.4	CONNECTED LOAD (KVA)			20.4
RECEPTACLES (KVA)							0.8																					20.4
MOTORS (KVA)							0.0																					
A/C (KVA)							0.0																				56.7	
HEATING (KVA)							0.0																				56.7	
KITCHEN (KVA)							0.0																					
MISCELLANEOUS (KVA)							13.6																					
NOTES: * INDICATES REUSED BREAKER																												

3PB DEMAND CALCS					
LIGHTING	0.10	KVA	X 125 %	=	0.1 KVA
RECEPTAC TOTAL	8.28	KVA			
1ST	10.00	KVA	X 100 %	=	8.3 KVA
REMAIN	0.00	KVA	X 50 %	=	0.0 KVA
MOTORS	1.50	KVA	X 100 %	=	1.5 KVA
LARGEST	1.50	KVA	X 125 %	=	1.9 KVA
A/C	0.00	KVA	X 100 %	=	0.0 KVA
HEATING	0.00	KVA	X 100 %	=	0.0 KVA
FUTURE	_____	KVA	X 100 %	=	0.0 KVA
KITCHEN	0.00	KVA	X 65 %	=	0.0 KVA
MISCELLANEOUS	13.62	KVA	X 100 %	=	13.6 KVA
TOTAL	=	70.5 amps	=	25.4 KVA	

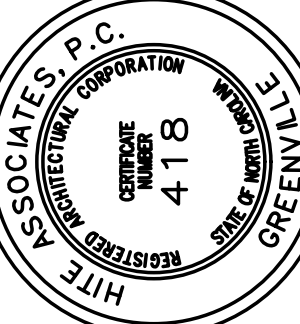


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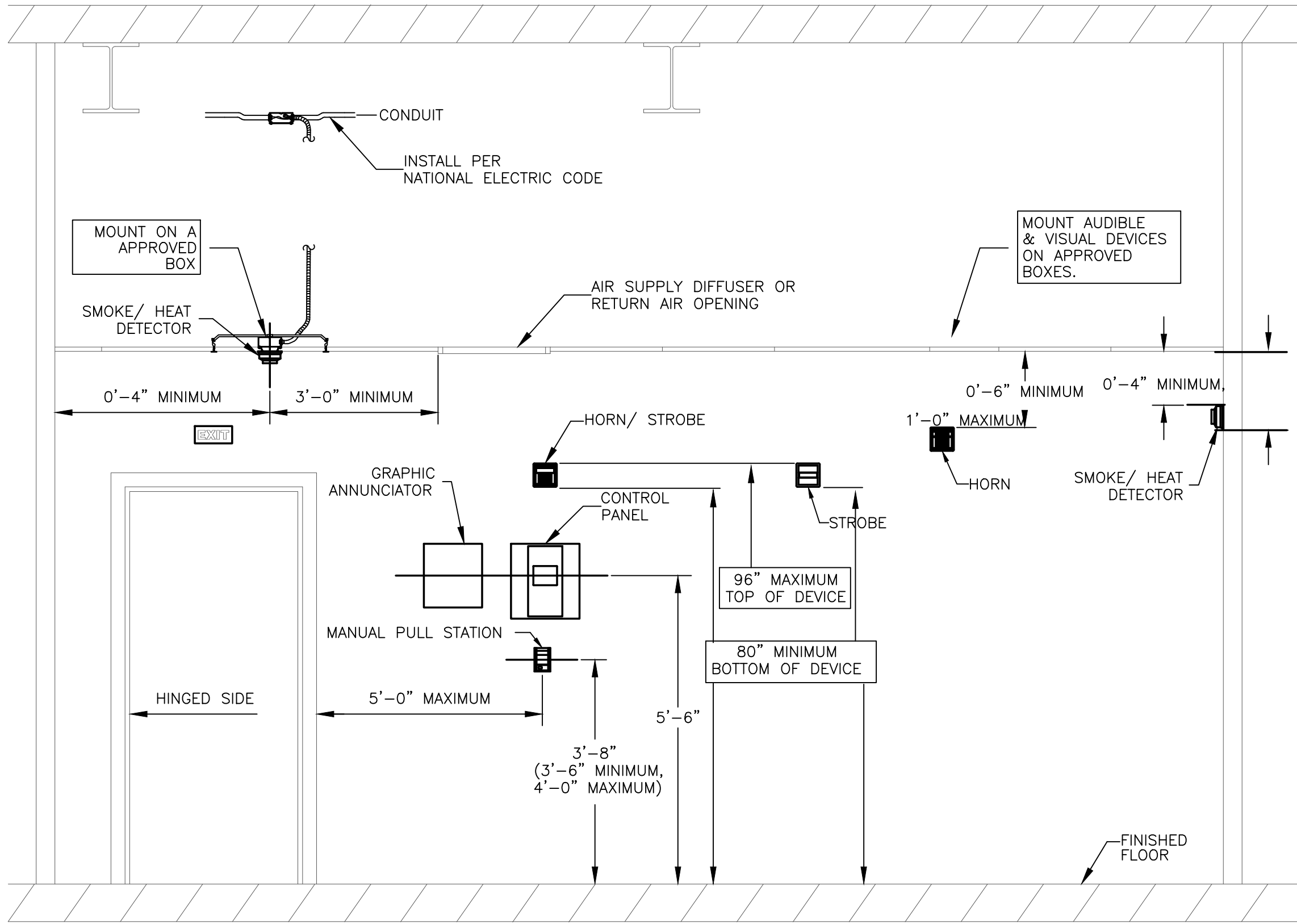
Addition to
Thanksgiving Elementary School
 Johnston County Schools
 Lynch Road / Johnston County / North Carolina

Project No.	22502
Date:	March 2025
Drawing no.	E 302

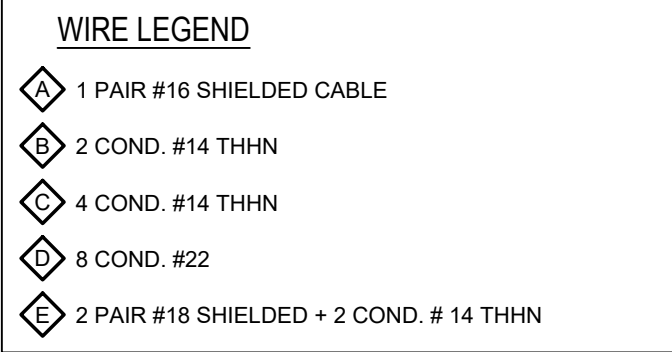
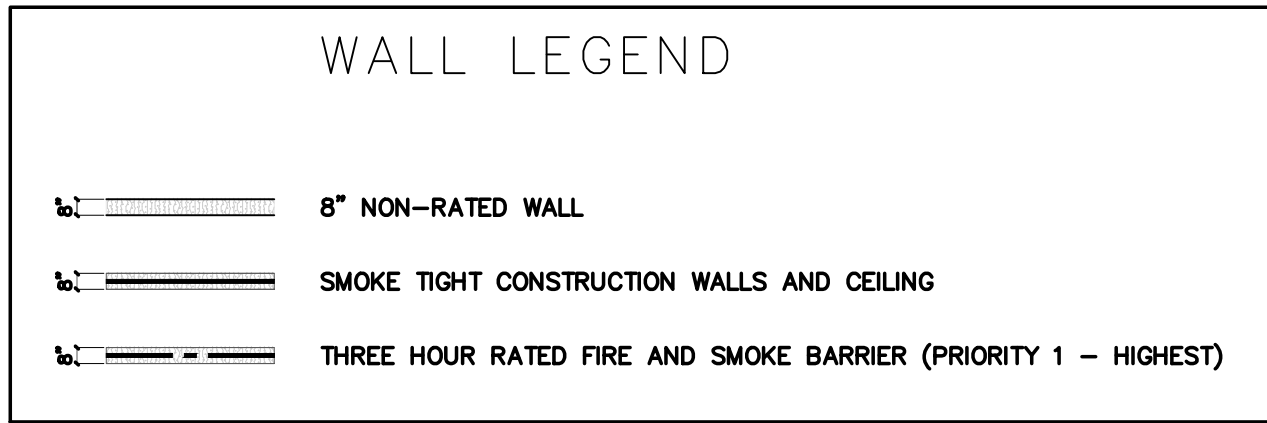
Hite associates
ARCHITECTURE / PLANNING / TECHNOLOGY
2600 Meridian Drive / Greenville, NC 27834 / tel (252) 757-0333

[illegible]

NFPA 72 AND ADA DEVICE
INSTALLATION REQUIREMENTS



001.2 FIRE ALARM DEVICE MOUNTING DETAIL
SCALE: N.T.S.



FIRE ALARM INSTALLATION NOTES:

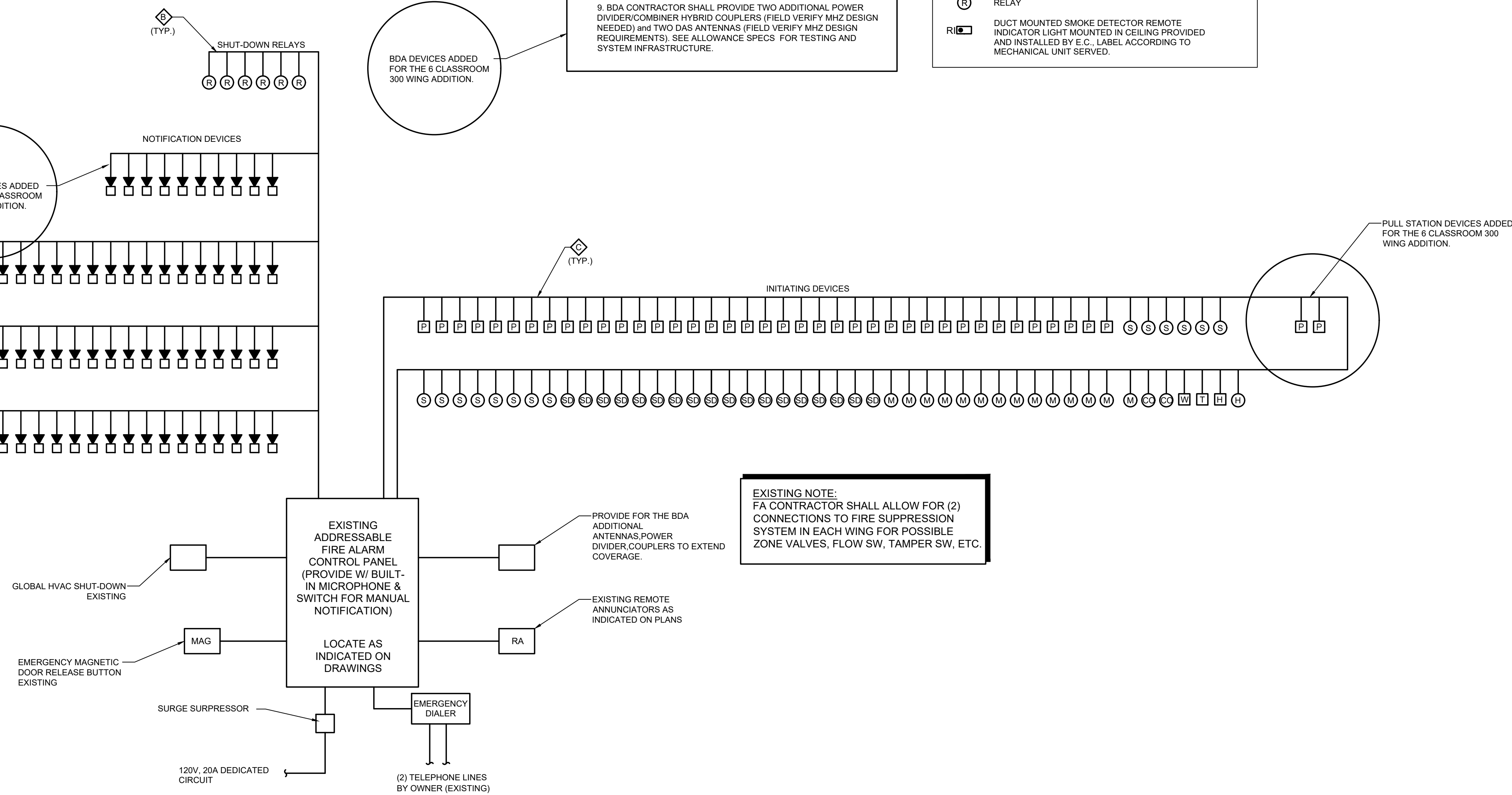
1. FIRE ALARM SHALL BE INSTALLED BY A MANUFACTURER APPROVED INSTALLATION COMPANY.
2. E.C. OR E.C.'S REPRESENTATIVE SHALL PERFORM THOROUGH TRAINING WITH OWNER'S REPRESENTATIVES PRIOR TO OWNER OCCUPANCY OF THE BUILDING.
3. FIRE ALARM SYSTEM SHALL BE INSTALLED IN ACCORDANCE TO ALL APPLICABLE STATE AND LOCAL LAWS AND IN ACCORDANCE WITH THE LATEST EDITION OF NFPA 72.
4. ALARM SHALL HAVE A SOUND LEVEL MEETING THE dB REQUIREMENTS OF 907.6.2.1.1 OF THE NC FIRE PREVENTION CODE AND NOT LESS THAN 20 dB ABOVE AMBIENT NOISE LEVELS. (TYPICALLY, 55 dB AMBIENT NOISE PER CLASSROOM OCCUPANCY. ADJUST FOR NOISY ENVIRONMENT).
5. ANY WIRING INSTALLED IN RETURN AIR PLENUM SHALL BE EITHER PLENUM-RATED CABLE OR IN CONDUIT.
6. FIRE ALARM CONTRACTOR SHALL PROVIDE A FULL SET OF SHOP DRAWINGS, INCLUDING BATTERY CALCULATIONS, WIRING DIAGRAMS, AND DEVICE PRODUCT DATA TO THE A/H FOR REVIEW AND APPROVAL PRIOR TO STARTING ROUGH-INS.
7. E.C. SHALL PROVIDE FRAMED BUILDING LAYOUT NEXT TO REMOTE ANNUNCIATOR. BUILDING LAYOUT SHALL SHOW ALL FIRE ALARM DEVICE LOCATIONS AND THEIR RESPECTIVE ADDRESSES.
8. FIRE ALARM SYSTEM SHALL INTERRUPT & SILENCE GYM PA SYSTEM UPON ALARM ACTIVATION.

9. BDA CONTRACTOR SHALL PROVIDE TWO ADDITIONAL POWER DIVIDER/COMBINER HYBRID COUPLERS (FIELD VERIFY MHz DESIGN NEEDED) AND TWO DAS ANTENNAS (FIELD VERIFY MHz DESIGN REQUIREMENTS). SEE ALLOWANCE SPECS. FOR TESTING AND SYSTEM INFRASTRUCTURE.

FIRE ALARM SYMBOL LEGEND

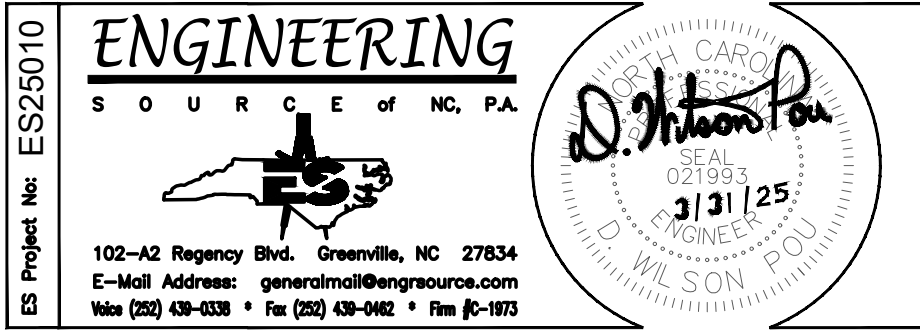
(SEE MOUNTING HEIGHT SCHEDULE FOR MOUNTING INFORMATION UNLESS NOTED OTHERWISE)

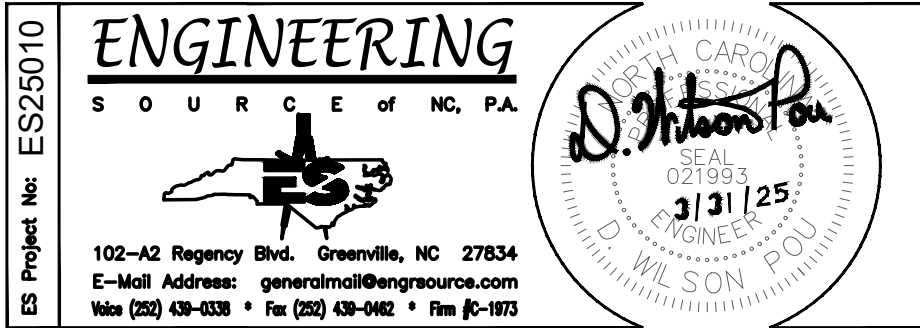
- [P] FIRE ALARM MANUAL PULL STATION
- [V] FIRE ALARM VOICE NOTIFICATION DEVICE
- [S] SMOKE DETECTOR
- [SS] DUCT MOUNTED SMOKE DETECTOR, PROVIDED AND WIRED BY E.C., INSTALLED BY M.C.
- [H] HEAT DETECTOR, CEILING MOUNTED
- [M] DOOR MAGNET
- [C] CARBON MON-OXIDE DETECTOR
- [FACP] FIRE ALARM CONTROL PANEL, FLUSH MOUNTED
- [RA] REMOTE ANNUNCIATOR PANEL, FLUSH MOUNTED
- [KX] KNOX BOX (COORDINATE WITH LOCAL FIRE MARSHALL)
- [BPS] BOOSTER POWER SUPPLY
- [W] WATER FLOW SENSOR
- [T] TAMPER SWITCH
- [H] KITCHEN HOOD RELAY
- [M] MONITOR MODULE
- [R] RELAY
- [R] DUCT MOUNTED SMOKE DETECTOR REMOTE INDICATOR LIGHT MOUNTED IN CEILING PROVIDED AND INSTALLED BY E.C., LABEL ACCORDING TO MECHANICAL UNIT SERVED.



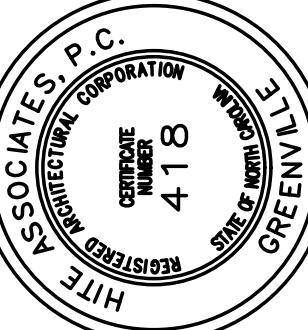
001.1 FIRE ALARM RISER
SCALE: NTS

FIRE ALARM SYSTEM ACTION MATRIX		SYSTEM ACTION																				COMMENTS/REMARKS
		ACTUATE COMMON ALARM SIGNAL INDICATOR	ACTUATE AUDIBLE ALARM SIGNAL	ACTUATE VOICE NOTIFICATION	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTUATE AUDIBLE SUPERVISORY SIGNAL	ACTUATE COMMON TROUBLE SIGNAL INDICATOR	ACTUATE AUDIBLE TROUBLE SIGNAL	ACTUATE APPROPRIATE LOCATION INDICATOR	ACTUATE ALL AUDIBLE EVACUATION SIGNALS	ACTUATE ALL VISIBLE EVACUATION SIGNALS	DISPLAY / PRINT CHANGE OF STATUS	TRANSMIT ALARM SIGNAL TO SUPERVISING STATION	TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION	TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	FAN SHUT DOWN (UNIVERSAL)	GYM PA SYSTEM SHUT DOWN	DAMPER SHUT DOWN	RELEASE MAGNETIC DOORS	FIRE SHUTTERS	ACTIVATE SMOKE EVAC FAN IN RESPECTIVE CONNECTOR	
INITIATING DEVICE OR CONDITION	MANUAL ALARM STATION	X	X	X					X	X	X	X	X			X	X	X	X	X	X	
	SMOKE SENSOR / DETECTOR	X	X	X					X	X	X	X	X			X	X	X	X	X	X	
	DUCT SENSOR / DETECTOR				X	X			X	X	X	X	X									
	WATERFLOW SWITCH	X	X	X					X	X	X	X	X			X	X	X	X	X	X	
	TAMPER SWITCH				X	X			X			X		X								
	EMERGENCY LOCKDOWN BUTTON																		X			
	POST INDICATOR VALVE SWITCH				X	X			X			X		X								
	FIRE ALARM AC POWER FAILURE						X	X				X			X							
	FIRE ALARM SYSTEM LOW BATTERY						X	X				X			X							
	OPEN CIRCUIT						X	X				X			X							
	GROUND FAULT						X	X				X			X							
	NOTIFICATION APPLIANCE CIRCUIT									X		X										
	WIRE-TO-WIRE SHORT						X	X														
	HOOD SUPPRESSION SYSTEM				X	X			X			X		X								X
	SMOKE DETECTOR - IN CONNECTORS ONLY						X	X	X			X		X	X					X		ONLY RELEASE DOORS IN SPECIFIC CONNECTOR
	CARBON MONOXIDE DETECTOR - IN BOILER ROOM & KITCHEN ONLY				X	X			X			X		X	X							X

FA
301

FA
310

Addition to
Thanksgiving Elementary School
 Johnston County Schools
 Lynch Road / Johnston County / North Carolina



Hite associates
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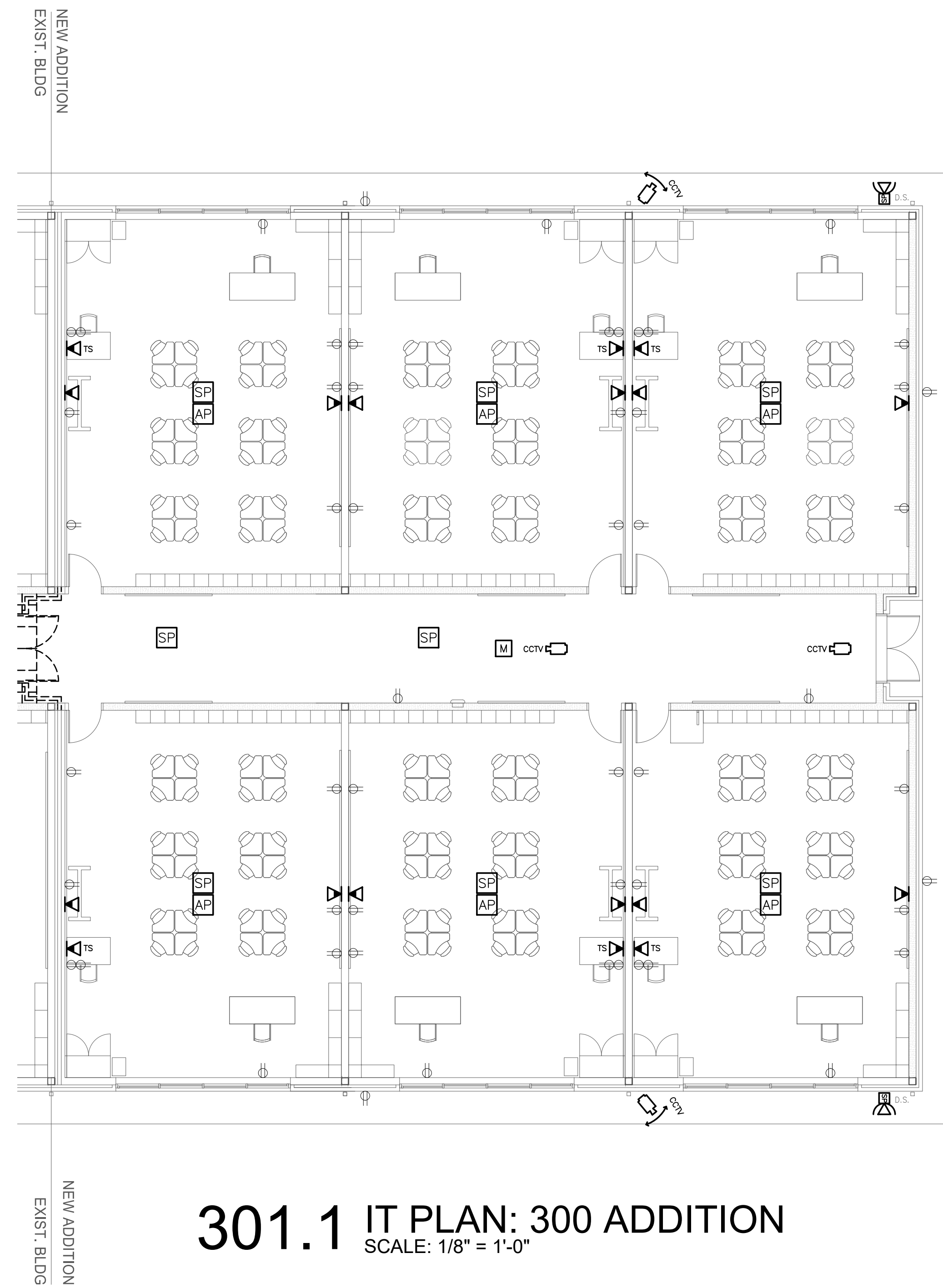
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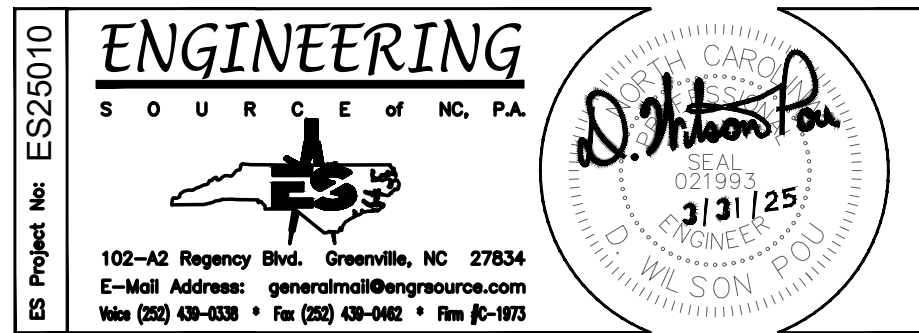
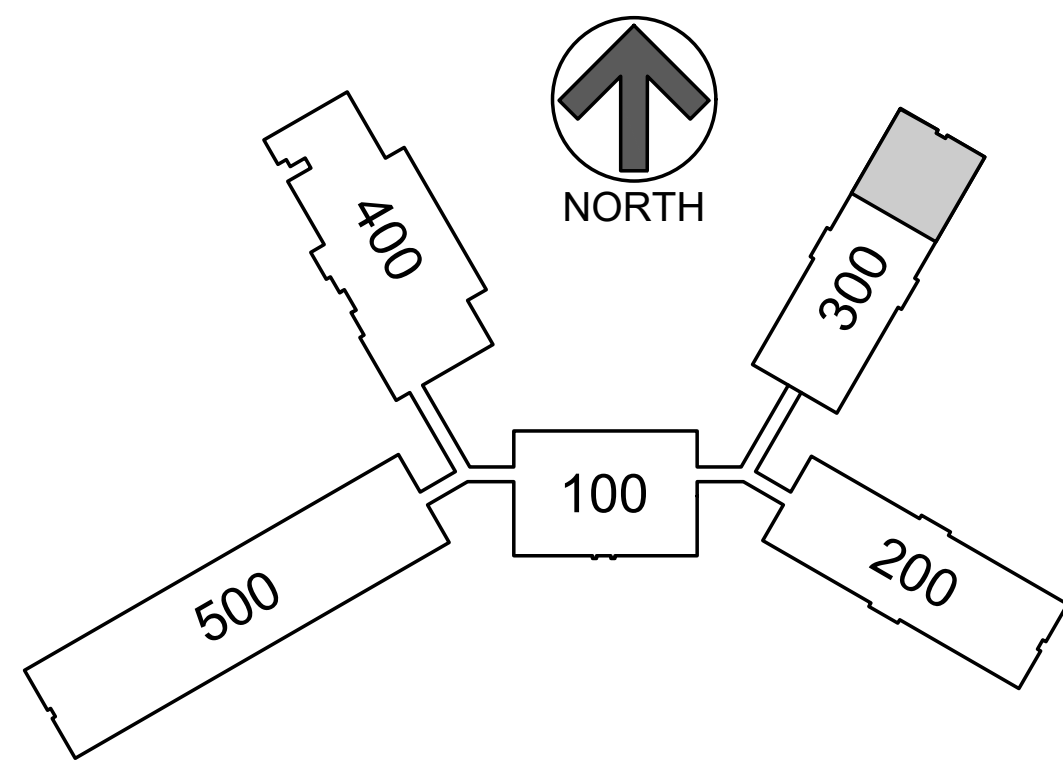
NOTE:

- 1) ALL FIRE ALARM CONDUCTORS SHALL BE RUN IN CONDUIT OPPOSITE SIDE OF TELECOMM CLOSET ON UTILITY PLATFORM
- 2) VOICE & DATA TELECOMMUNICATIONS CABLE SHALL NOT BE RUN PARALLEL TO POWER CABLE WHEN WITHIN 36", EVEN FOR SHORT DISTANCES





301.1 IT PLAN: 300 ADDITION
SCALE: 1/8" = 1'-0"



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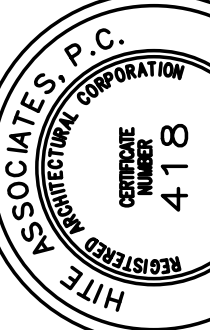
Project No. 22502

Date: March 2021

Drawing no.

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