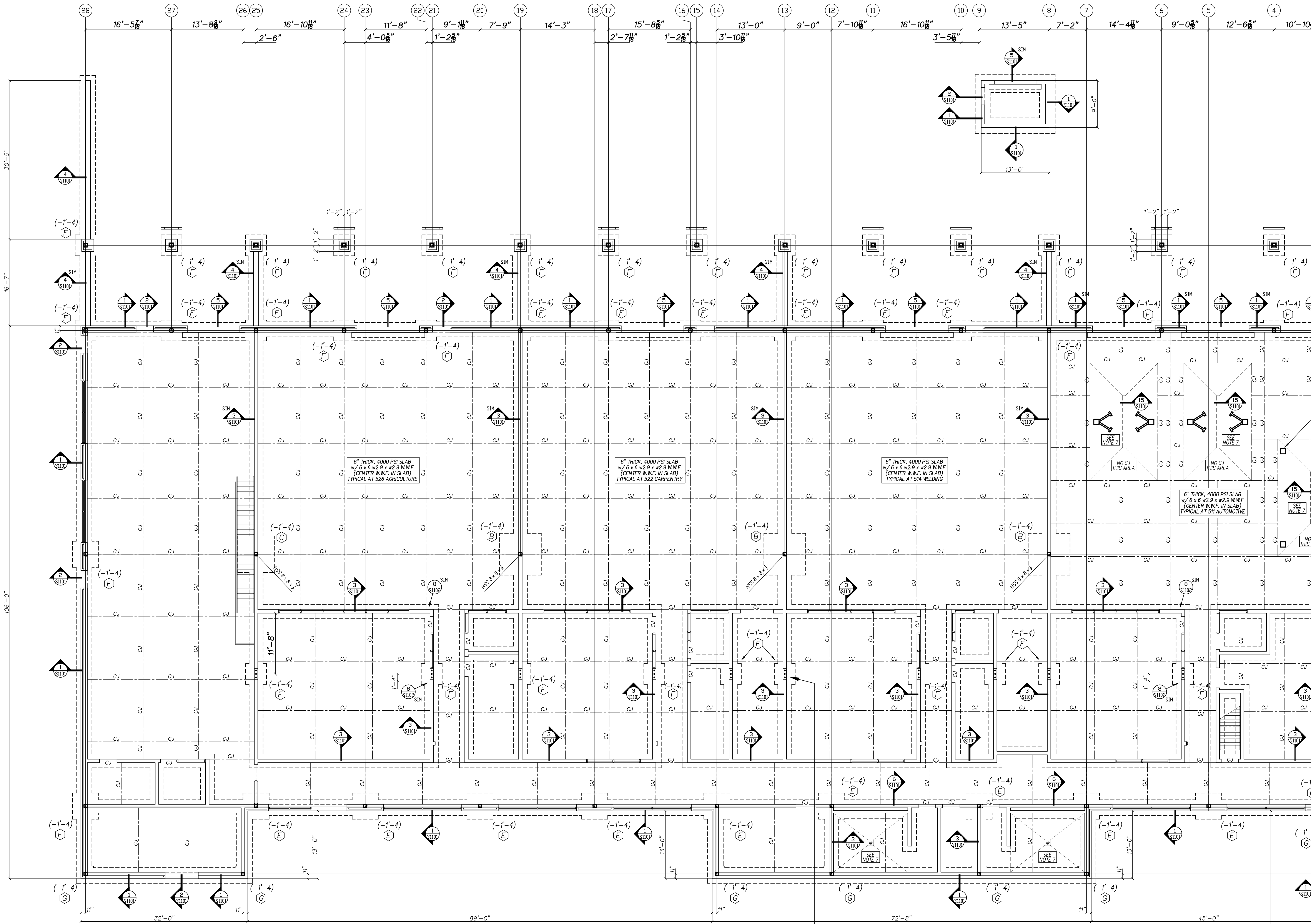


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1. FOOTING DESIGN BASED ON SOIL BRG. CAPACITY OF 2000 PSF.  
[GEOTECHNICAL REPORT BY TERRACON (PROJECT NO. 72245-090, DATED 20 DEC 2024)]  
[THE ENGINEER'S RESPONSIBILITY OF NOTING THE ENGINEER OF RECORD  
IF UNSTABLE, ORGANIC, WEAK OR OTHERWISE UNACCEPTABLE SOIL CONDITIONS ARE  
ENCOUNTERED DURING EXCAVATIONS OR SUBSEQUENT GEOTECHNICAL INVESTIGATIONS.]
2. SLAB, NOTED (-) = ARE BELOW REFERENCE FINISHED FLOOR TO TOP/FOOTING.  
ELEVATION = 6.008 ELEVATION = 6.360 ELEVATION = 6.713, P. SEE CIVIL DRAWINGS.
3. ELEV. ON GRADE IS NORMAL WEIGHT CONCRETE WITH REINFORCED WITH 6#6 W14 x . W14 WMM  
ON A 4" NO. 57/67 WASHED STONE AND 15 MIL POLY VAPOR BARRIER, TYP. U.O.N.
4. ALL CONCRETE SHALL BE A MINIMUM STRENGTH OF 3000 PSI MEETING ACI 301,  
ACI 318. ALL CONCRETE SHALL BE MIXED, HANDLED, SAMPLED, TESTED,  
AND PLACED IN ACCORDANCE WITH ALL STANDARDS. ALL STANDARD  
TO PUMPING SHALL BE TAKEN AT THE EXIT END OF THE PUMP AT THE ELEVATION  
OF PLACEMENT. (REFERENCE ACI MANUAL OF CONCRETE PRACTICE).
5. ALL REINFORCING BARS SHALL BE GRADE 60 CONFORMING TO ASTM 615, LAP  
BARRIERS REQUIRED. USING CLASS 100 BAR SPICES, OR 40 BAR DIAMETERS.  
DEVELOPMENT LENGTHS SHALL BE CRS MINIMUM U.O.
6. SEE S101 FOR COLUMN FOOTING CREDS 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. ARCHITECTURAL BACKGROUND IS SHOWN FOR REFERENCE ONLY.  
REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF WALLS.
10. THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL DIMENSIONS & ELEVATIONS  
PRIOR TO STARTING CONSTRUCTION AND ANY DISCREPANCY SHALL BE  
RESOLVED TO THE ATTENTION OF THE ENGINEER OF RECORD.
11. SEE ARCHITECTURAL DRAWINGS FOR ALL POURED RAMP LOCATIONS AND DIMENSIONS, TYPICAL.  
SEE ARCHITECTURAL DRAWINGS FOR ALL POURED STAIR LOCATIONS AND DIMENSIONS, TYPICAL.  
CONSTRUCT ALL POURED RAMPS AND STAIRS IN ACCORDANCE WITH STRUCTURAL SECTIONS 7  
AND 8 AND THE SLOPED RAMP AND STAIRS. SEE S10/S101 FOR BOLLARD DETAIL. LOCATE  
ALL BOLLARDS PER ARCHITECTURAL DRAWINGS.
12. ALL COLUMNS = HSS 8 x 8 x 4, TYP. U.O.N.



FOUNDATION PART PLAN

1" = 1'-0"

- 1.) FOOTING DESIGN BASED ON AN SOIL BRG. CAPACITY OF 2000 PSF. (GEOTECHNICAL REPORT BY TERRACON (PROJECT NO. 72245090, DATED 20 DEC 2024) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER OF RECORD IF UNSTABLE, ORGANIC, WEAK OR OTHERWISE UNACCEPTABLE SOIL CONDITIONS ARE ENCOUNTERED DURING EXCAVATIONS OR SUBSEQUENT GEOTECHNICAL INVESTIGATIONS.
- 2.) ELEV. NOTED ( - ) ARE BELOW REFERENCE FINISHED FLOOR TO TOP/FOOTING. FINISHED FLOOR ELEVATION = (+36.00'), TYP., U.O.N. SEE CIVIL DRAWINGS.
- 3.) SLAB ON GRADE IS NORMAL WEIGHT CONCRETE WITH REINFORCED WITH 6x8 W1.4 x W1.4 WMM ON A 4" NO. 57/67 WASHED STONE AND 15 MIL POLY VAPOR BARRIER, TYP. U.O.N.
- 4.) 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 PUMPING SHALL BE TAKEN AT THE EXIT END OF THE PUMP AT 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 TENSION LAP SPLICES, OR 40 BAR DIAMETERS. DEVELOPMENT LENGTHS SHALL BE CRS MINIMUM U.O.N.
- 6.) 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 DEPRESSED FLOOR SLAB LOCATIONS.

- 8.) LOCATE ALL WALLS AND MASONRY OPENINGS PER ARCHITECTURAL DRAWINGS.
- 9.) ARCHITECTURAL BACKGROUND IS SHOWN FOR REFERENCE ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF WALLS.
- 10.) THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL DIMENSIONS & ELEVATIONS PRIOR TO STARTING CONSTRUCTION AND ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD.
- 11.) SEE ARCHITECTURAL DRAWINGS FOR ALL POURED RAMP LOCATIONS AND DIMENSIONS, TYPICAL. SEE ARCHITECTURAL DRAWINGS FOR ALL POURED STAIR LOCATIONS AND DIMENSIONS, TYPICAL. CONSTRUCT ALL POURED RAMPS AND STAIRS IN ACCORDANCE WITH STRUCTURAL SECTIONS 7 & 16/S101 AND ARCHITECTURAL DRAWINGS. SEE 10/S101 FOR BOLLARD DETAIL. LOCATE ALL BOLLARDS PER ARCHITECTURAL DRAWINGS.
- 12.) ALL COLUMNS = HSS 8 x 8 x 4, TYP. U.O.N.

- LOCATION OF ADDITIONAL IN-WALL PILASTERS AT PLATFORM CANTILEVERED BEAM WALL BEARING ABOVE. SEE 6/S102 (10-PLACES)  
- FILL WITH 3000 PSI CONCRETE FOR 2'-0" WIDTH (3 CELLS).  
- PROVIDE ONE #7 BAR IN EACH FILLED CELL.  
- TIE TO FOOTING BELOW WITH ONE #7 DOWEL IN EACH FILLED CELL.  
- (C) FOOTING CENTERED UNDER PILASTER, TYP.

Revision	No.	Date

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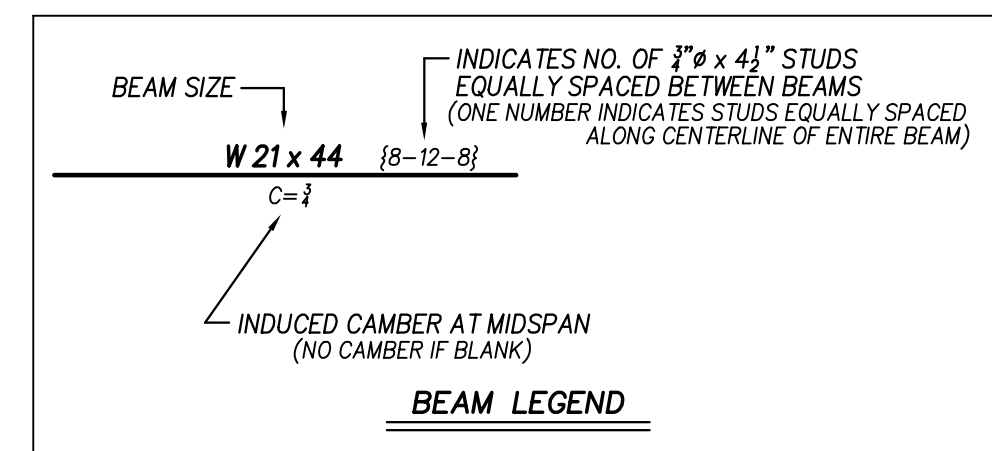
**QED**  
QUEEN ENGINEERING & DESIGN  
REGISTERED PROFESSIONAL ENGINEER  
NORTH CAROLINA  
18991  
26 FEB 2025

NEW CTE BUILDING FOR  
**NEW BERTIE HIGH SCHOOL**  
716 US 13 NORTH / NCDPS UNIT 080 - SCHOOL 312  
WINDSOR / BERTIE COUNTY / NORTH CAROLINA

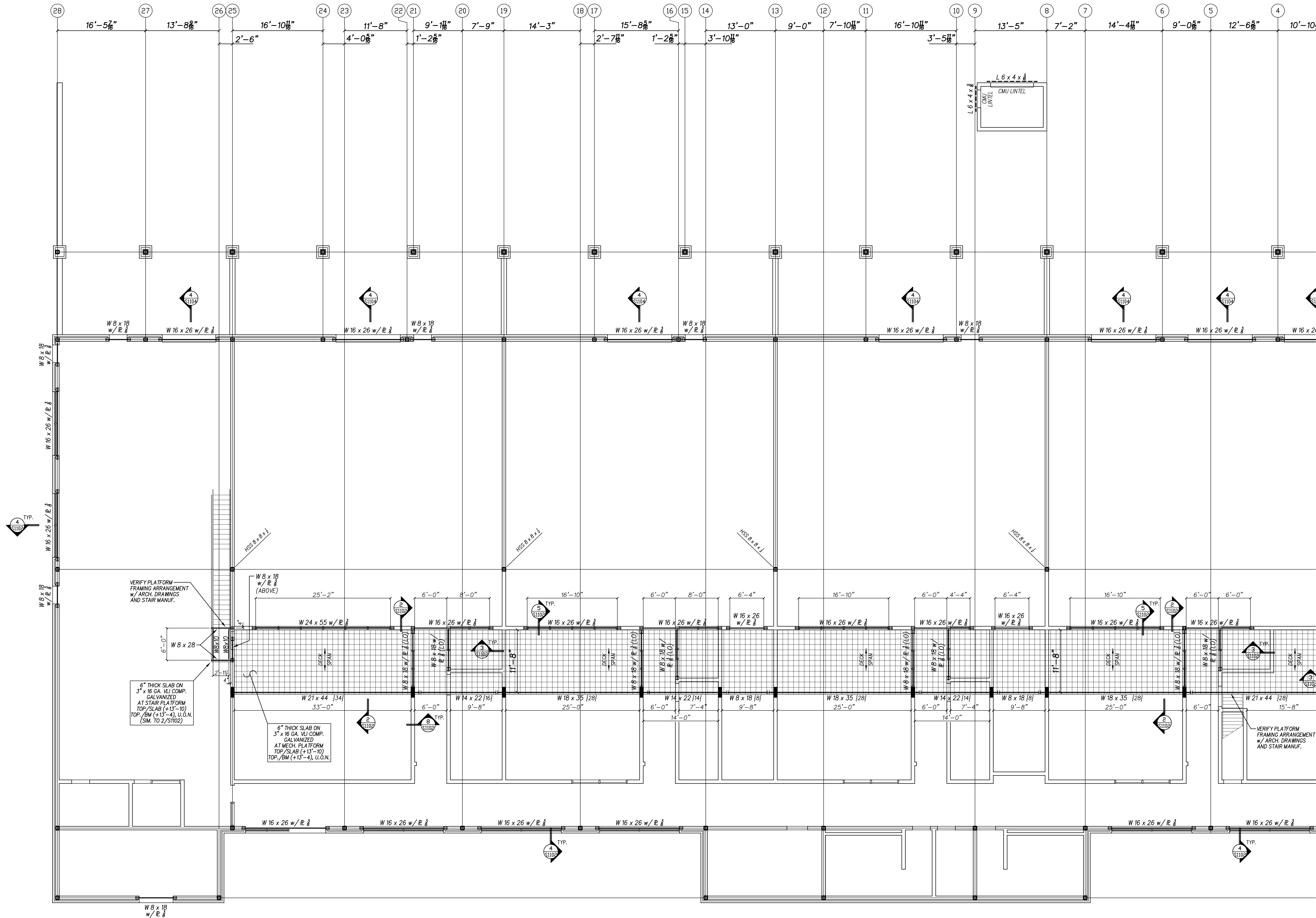
Project No. **22351**  
Date: 26 FEB 2025  
Drawing no. **S 102**

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- 1) SEE PLAN FOR TOP/UTILITY PLATFORM SLAB ELEVATION
- 2) SEE S102 FOR METAL FLOOR DECK FASTENING PATTERN, WHERE REQUIRED.
- 3) SEE PLAN FOR SLAB THICKNESS AND FLOOR DECK WITH 6x6 W2.9 x W2.9 WWM.  
REINFORCE ALL NEW PLATFORM SLAB WITH 6x6 W2.9 x W2.9 WWM.
- 4) ARCHITECTURAL BACKGROUND IS SHOWN FOR REFERENCE ONLY.  
REFER TO ARCHITECTURAL DRAWINGS FOR FINISH CONDITIONS OF WALLS.
- 5) REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATION OF ALL UNITS.
- 6) CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AS REQUIRED FOR NEW COMPOSITE DECK SPANS GREATER THAN 10'-6"
- 7) LOCATE ALL WALLS AND MASONRY OPENINGS PER ARCHITECTURAL DRAWINGS.  
WHERE REQUIRED, SEE S102 FOR ALL NEW WALLS.
- 8) NO FABRICATION OR ERECTION SHALL COMMENCE PRIOR TO THE APPROVAL OF ALL STRUCTURAL STEEL SHOP DRAWINGS BY THE ENGINEER OF RECORD.
- 9) COORDINATE AND VERIFY ALL DECK EDGE LOCATIONS AND DIMENSIONS
- 10) REFERENCE ARCHITECTURAL AND PLUMBING DRAWINGS FOR COORDINATION OF SLOPED FLOORS AT FLOOR DRAINS, AND DEPRESSIONED FLOOR SLAB LOCATIONS.



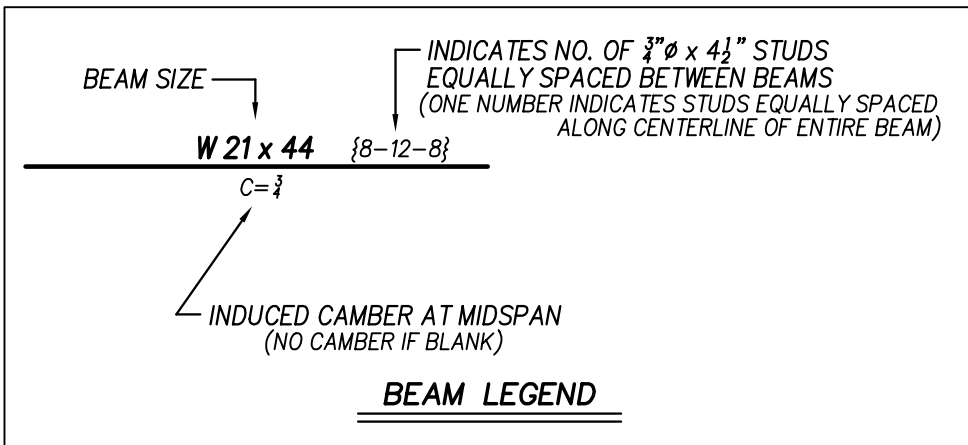




INTERMEDIATE PART PLAN

1/8" = 1'-0"

- 1.) SEE PLAN FOR TOP/UTILITY PLATFORM SLAB ELEVATION
- 2.) SEE S1102 FOR METAL FLOOR DECK FASTENING PATTERN, WHERE REQUIRED.
- 3.) SEE PLAN FOR SLAB THICKNESS AND FLOOR DECK SIZE.  
REINFORCE ALL NEW PLATFORM SLABS WITH 6x6 w2.9 x w2.9 WWM.
- 4.) ARCHITECTURAL BACKGROUND IS SHOWN FOR REFERENCE ONLY.  
REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF WALLS.
- 5.) REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATION OF ALL LINTELS.
- 6.) CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AS REQUIRED FOR NEW COMPOSITE DECK SPANS GREATER THAN 10'-6"
- 7.) LOCATE ALL WALLS AND MASONRY OPENINGS PER ARCHITECTURAL DRAWINGS.  
WHERE REQUIRED, SEE S1102 FOR ALL NEW CMU LINTELS.
- 8.) NO FABRICATION OR ERECTION SHALL COMMENCE PRIOR TO THE APPROVAL OF ALL STRUCTURAL STEEL SHOP DRAWINGS BY THE ENGINEER OF RECORD.
- 9.) COORDINATE AND VERIFY ALL DECK EDGE LOCATIONS AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
- 10.) REFERENCE ARCHITECTURAL AND PLUMBING DRAWINGS FOR COORDINATION OF SLOPED FLOORS AT FLOOR DRAINS, AND DEPRESSED FLOOR SLAB LOCATIONS.



No.	Date	Revision

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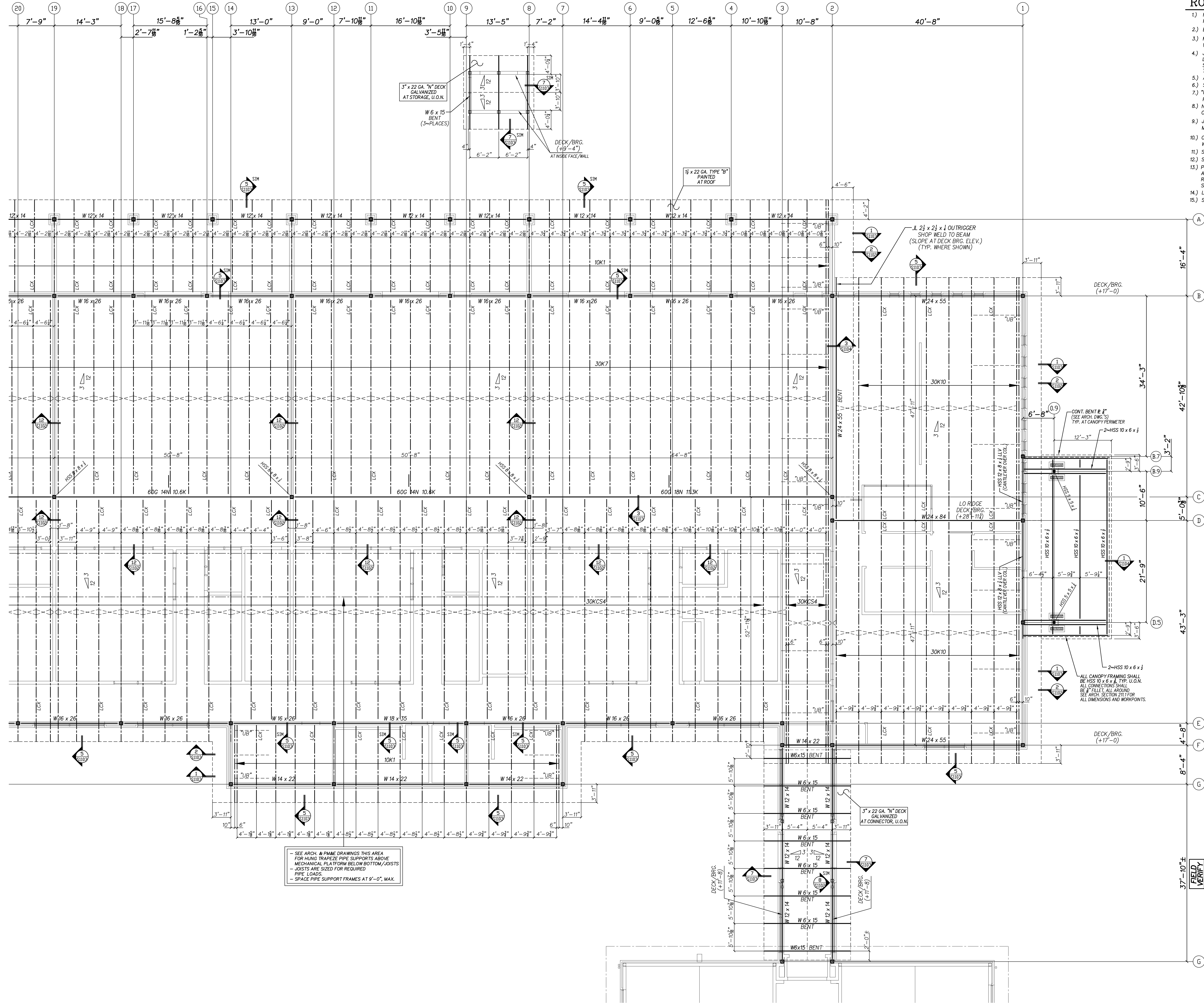
**Drucke**  
NORTH CAROLINA  
REGISTERED PROFESSIONAL ENGINEER  
18991  
BRUCE QUINN  
26 FEB 2025

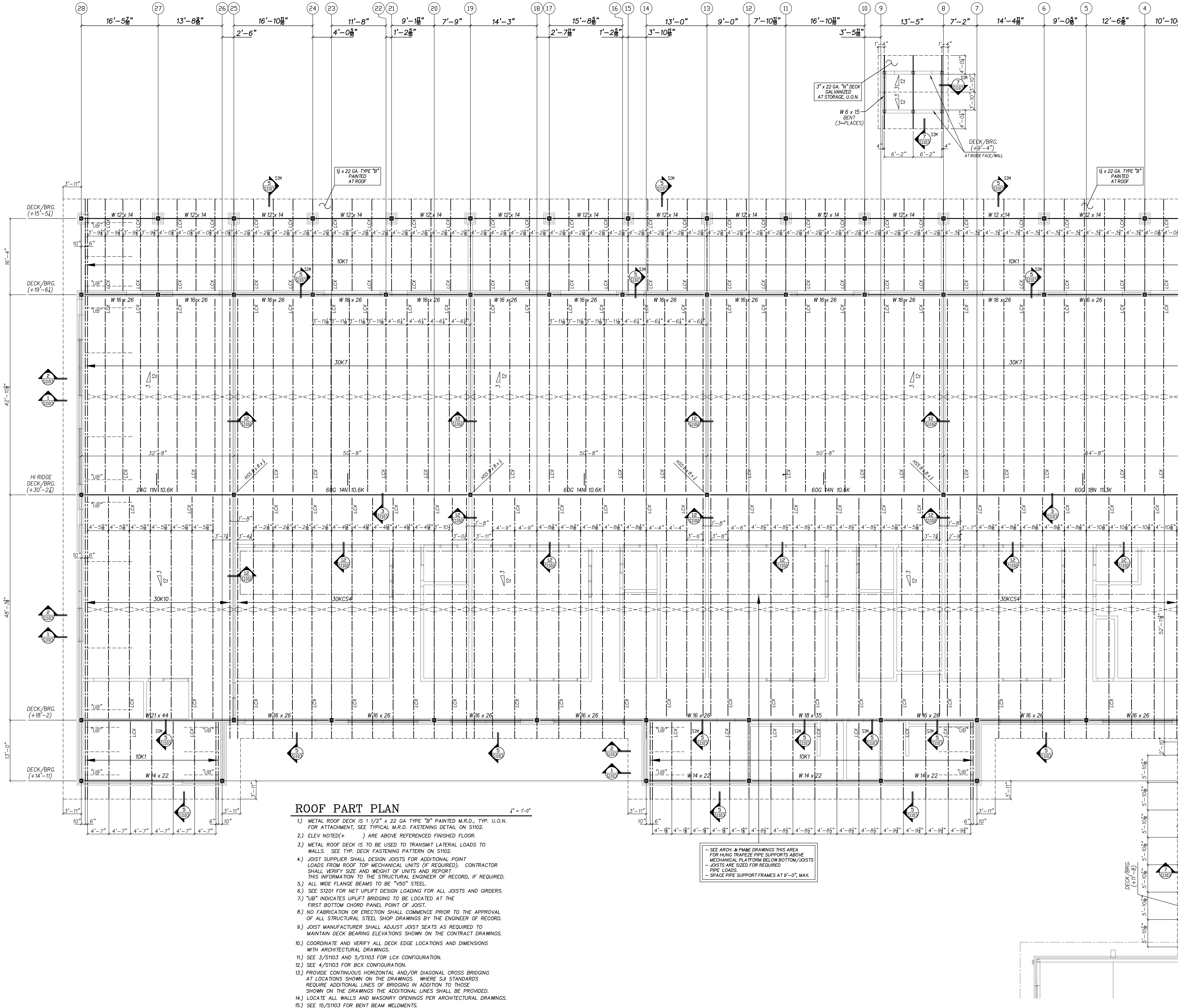
NEW CTE BUILDING FOR  
**NEW BERTIE HIGH SCHOOL**  
716 US 13 NORTH / NCDPS UNIT 080 - SCHOOL 312  
WINDSOR / BERTIE COUNTY / NORTH CAROLINA

Project No. 22351

Date: 26 FEB 2025

Drawing no. S 104





ROOF PART PLAN

- 1.) METAL ROOF DECK IS 1 1/2" x 22 GA TYPE "B" PAINTED M.R.D., TYP. U.O.N. FOR ATTACHMENT, SEE TYPICAL M.R.D. FASTENING DETAIL ON S102.
- 2.) ELEV NOTED(+ ) ARE ABOVE REFERENCED FINISHED FLOOR.
- 3.) METAL ROOF DECK IS TO BE USED TO TRANSMIT LATERAL LOADS TO WALLS. SEE TYP. DECK FASTENING PATTERN ON S102.
- 4.) JOIST SUPPLIER SHALL DESIGN JOISTS FOR ADDITIONAL POINT LOADS FROM ROOF TOP MECHANICAL UNITS (IF REQUIRED). CONTRACTOR SHALL VERIFY SIZE AND WEIGHT OF UNITS AND REPORT THIS INFORMATION TO THE STRUCTURAL ENGINEER OF RECORD, IF REQUIRED.
- 5.) ALL WIDE FLANGE BEAMS TO BE "A50" STEEL.
- 6.) SEE S1201 FOR NET UPLIFT DESIGN LOADING FOR ALL JOISTS AND GIRDERS.
- 7.) "UB" INDICATES UPLIFT BRIDGING TO BE LOCATED AT THE FIRST BOTTOM CHORD PANEL POINT OF JOIST.
- 8.) NO FABRICATION OR ERECTION SHALL COMMENCE PRIOR TO THE APPROVAL OF ALL STRUCTURAL STEEL SHOP DRAWINGS BY THE ENGINEER OF RECORD.
- 9.) JOIST MANUFACTURER SHALL ADJUST JOIST SEATS AS REQUIRED TO MAINTAIN DECK BEARING ELEVATIONS SHOWN ON THE CONTRACT DRAWINGS.
- 10.) COORDINATE AND VERIFY ALL DECK EDGE LOCATIONS AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
- 11.) SEE 3/S103 AND 5/S103 FOR LCX CONFIGURATION.
- 12.) SEE 4/S103 FOR BCX CONFIGURATION.
- 13.) PROVIDE CONTINUOUS HORIZONTAL AND/OR DIAGONAL CROSS BRIDGING AT LOCATIONS SHOWN ON THE DRAWINGS. WHERE SJI STANDARDS REQUIRE ADDITIONAL LINES OF BRIDGING IN ADDITION TO THOSE SHOWN ON THE DRAWINGS THE ADDITIONAL LINES SHALL BE PROVIDED.
- 14.) LOCATE ALL WALLS AND MASONRY OPENINGS PER ARCHITECTURAL DRAWINGS.
- 15.) SEE 15/S103 FOR BENT BEAM WELDMENTS.

Revision	
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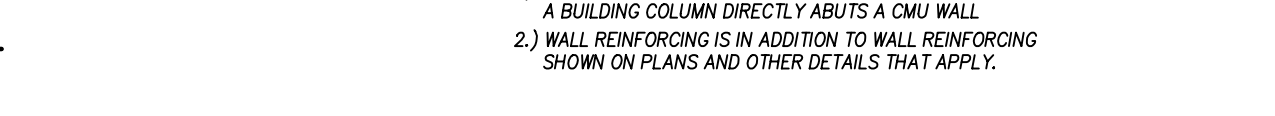
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18991  
26 FEB 2025

NEW CTE BUILDING FOR  
**NEW BERTIE HIGH SCHOOL**  
716 US 13 NORTH / NCDPS UNIT 080 - SCHOOL 312  
WINDSOR / BERTIE COUNTY / NORTH CAROLINA

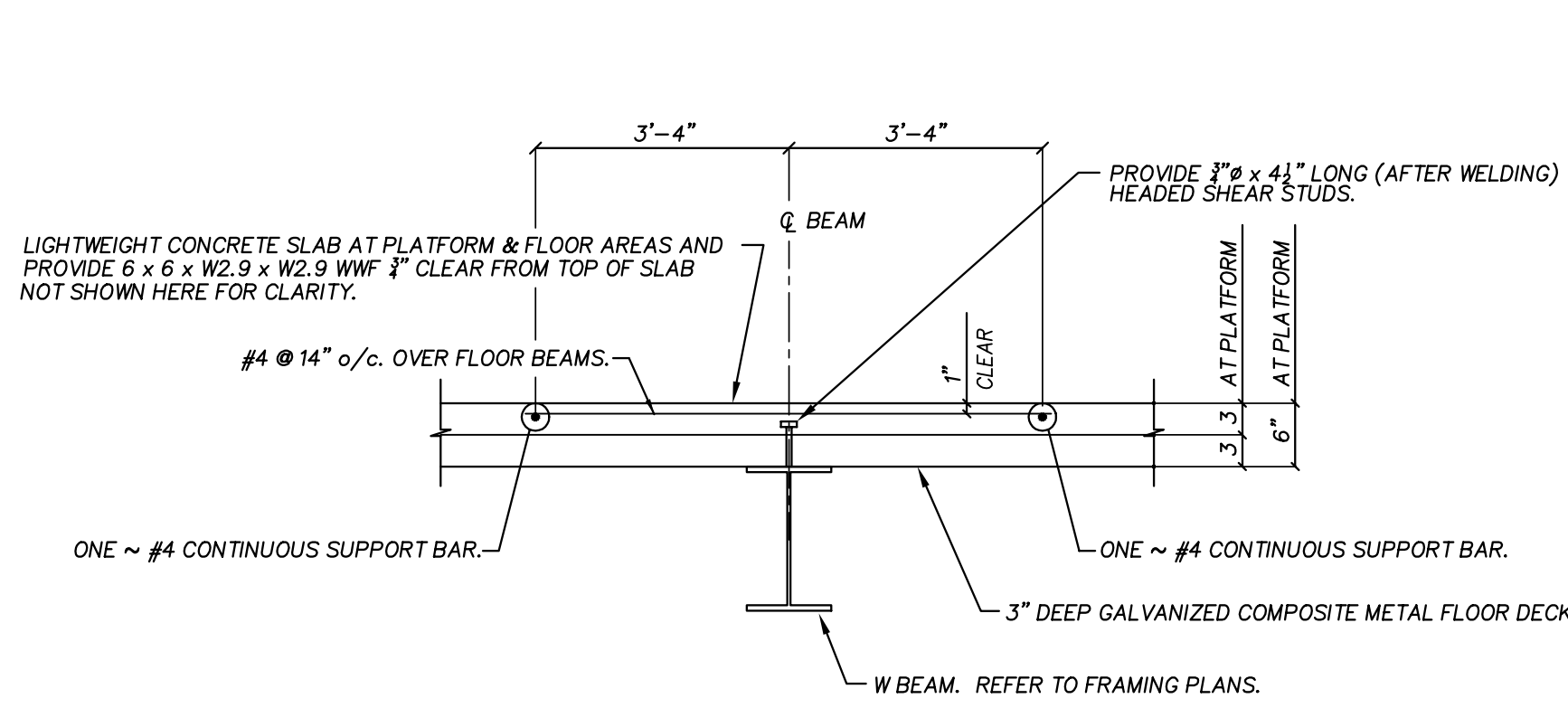
Project No. **22351**  
Date: 26 FEB 2025  
Drawing no. **S 106**



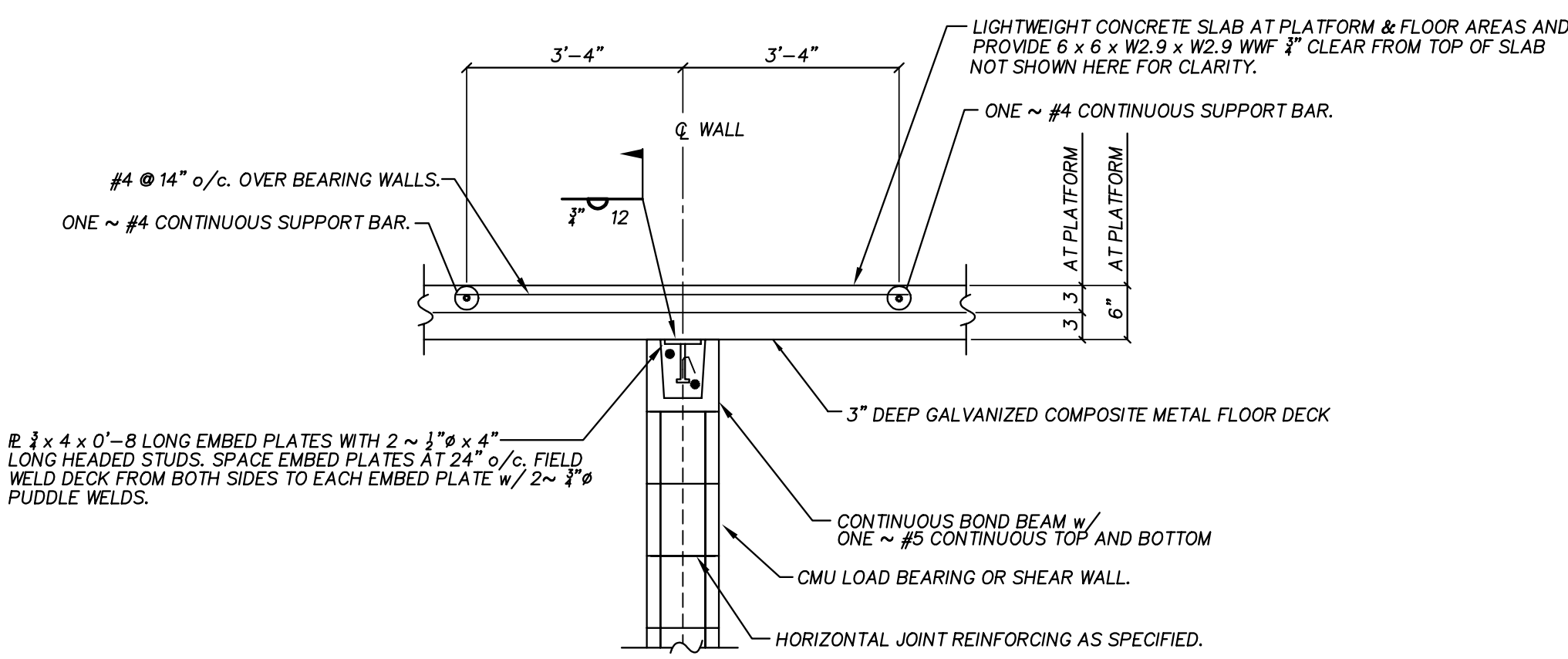


COLUMN SPREAD FOOTING SCHEDULE			2000 PSF
MARK	SIZE	REINFORCING & NOTES	
(A)	10" × 10" × 10" × 20"	10	#6 EA. WA. (BOTTOM ONLY)
(B)	8" × 8" × 8" × 16"	9	#5 EA. WA. (BOTTOM ONLY)
(C)	7" × 7" × 8" × 14"	7	#5 EA. WA. (BOTTOM ONLY)
(D)	6" × 6" × 8" × 13"	6	#5 EA. WA. (BOTTOM ONLY)
(E)	5" × 5" × 8" × 12"	5	#5 EA. WA. (BOTTOM ONLY)
(F)	4" × 4" × 8" × 12"	4	#5 EA. WA. (BOTTOM ONLY)
(G)	3" × 3" × 8" × 12"	4	#5 EA. WA. (BOTTOM ONLY)
(H)	6" × 6" × 3" × 13"	6	#5 EA. WA. (TOP & BOTTOM)

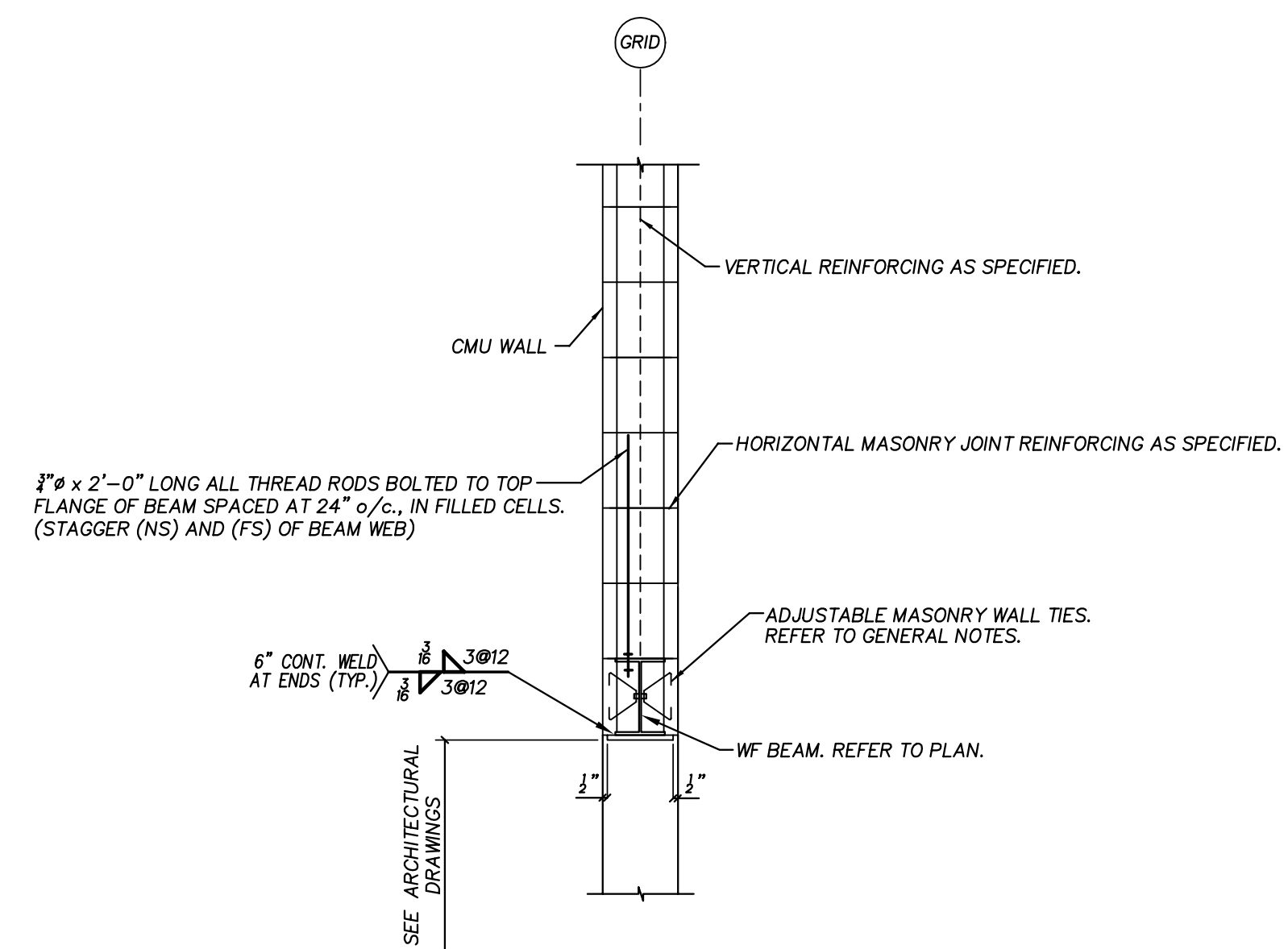




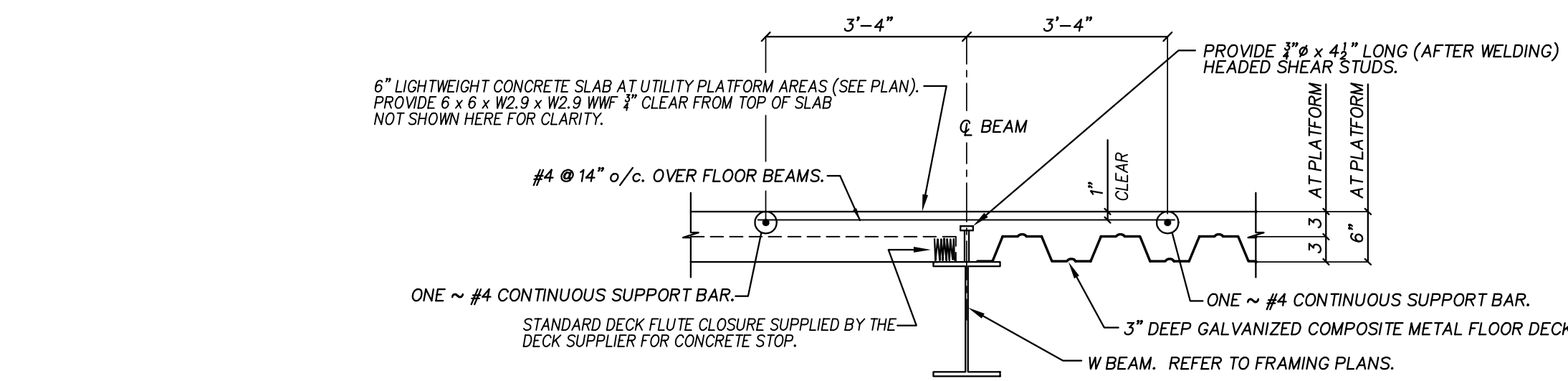
1 TYPICAL PLATFORM SUPPORT BEAM



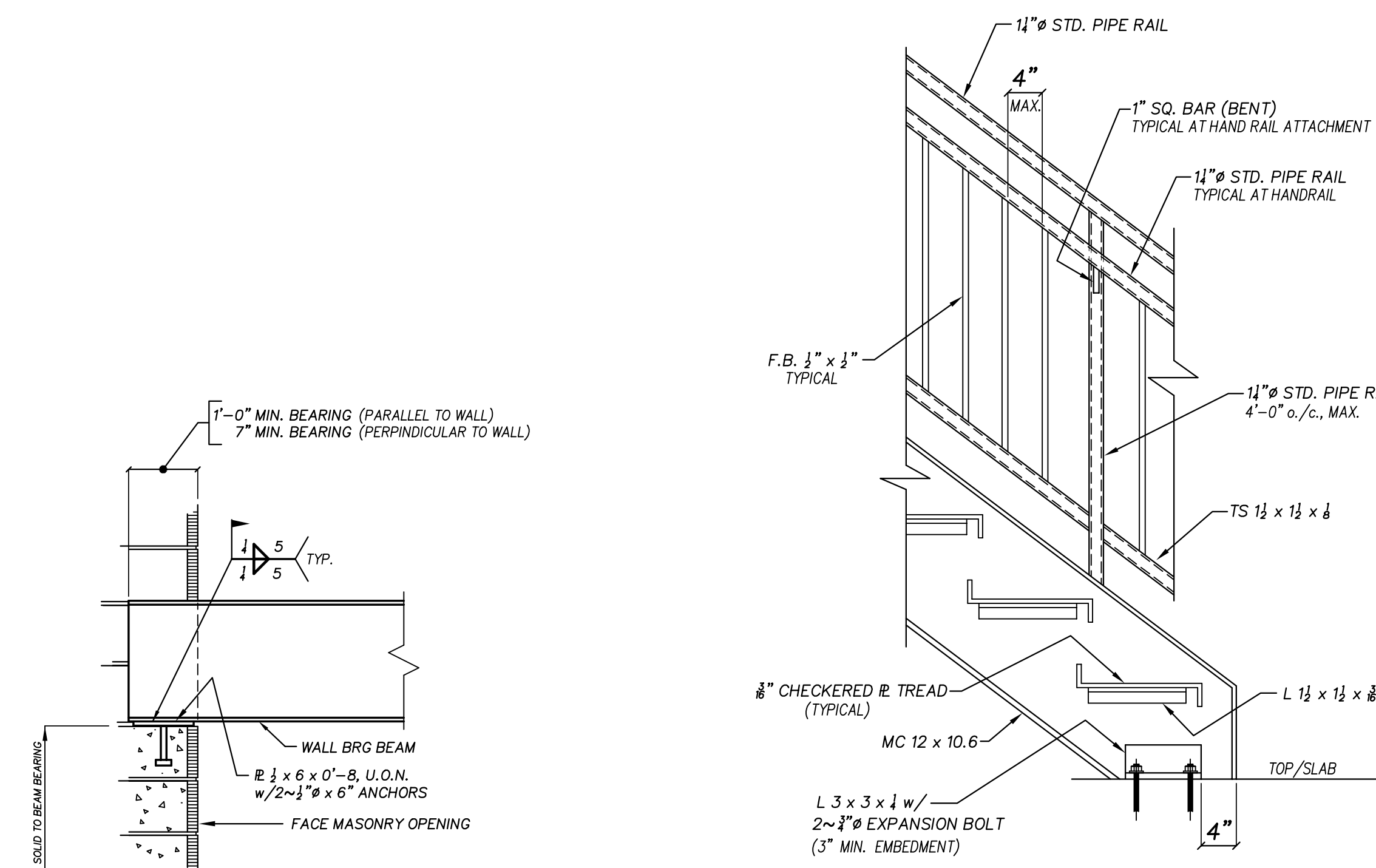
3 TYPICAL CMU LOAD BEARING WALL DETAIL AT ELEVATED SLAB



5 TYPICAL WF BEAM AT CMU WALL



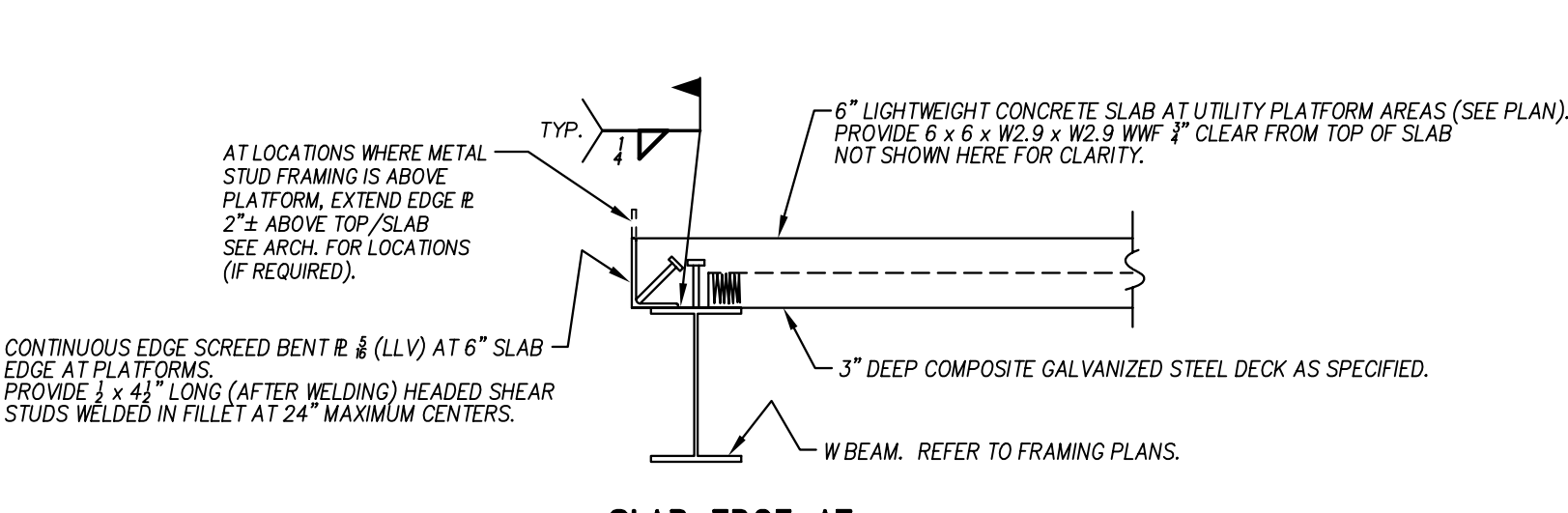
2 TYPICAL ELEVATED SLAB EDGE DETAILS



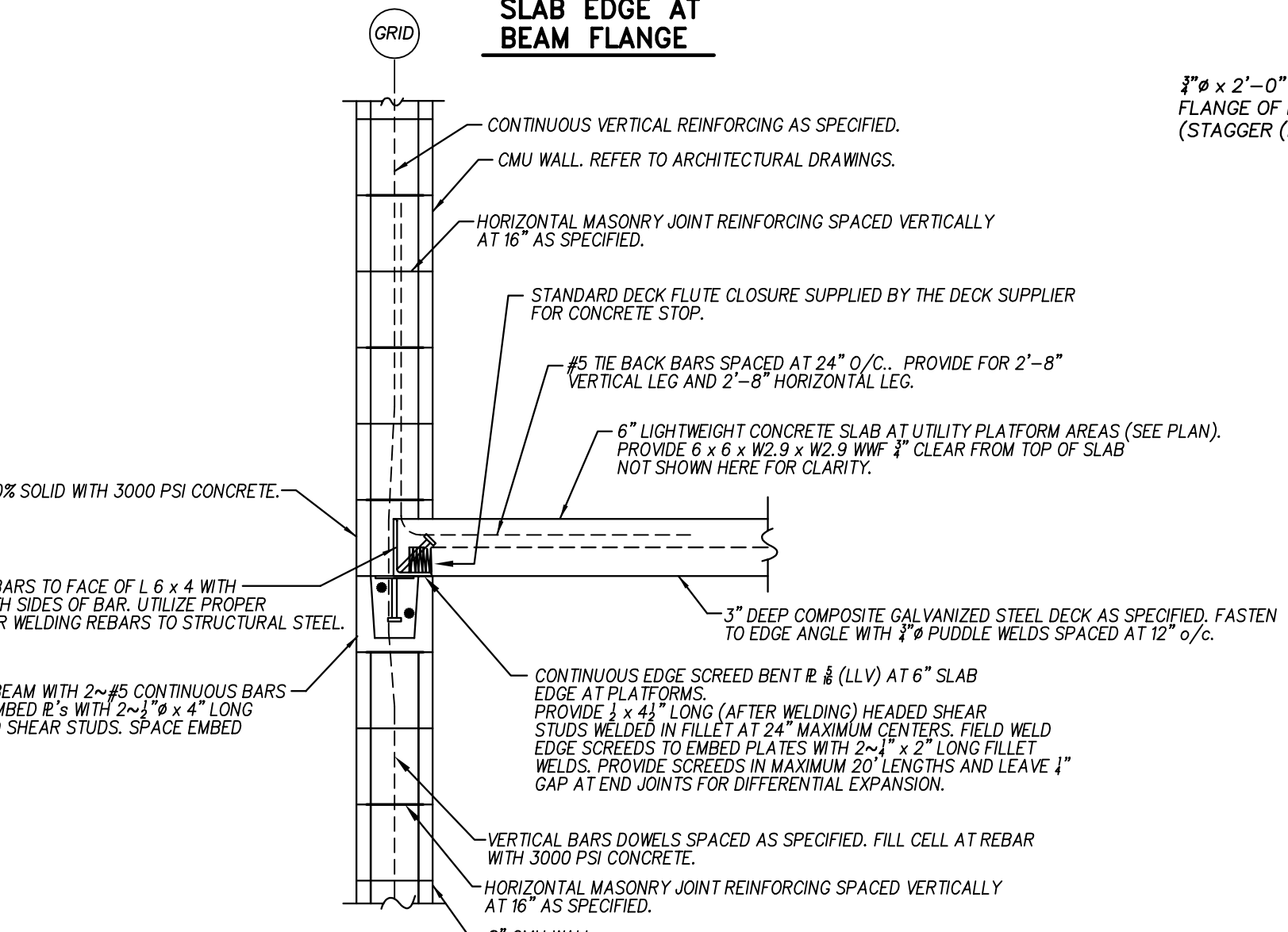
7 TYPICAL STAIR CONSTRUCTION



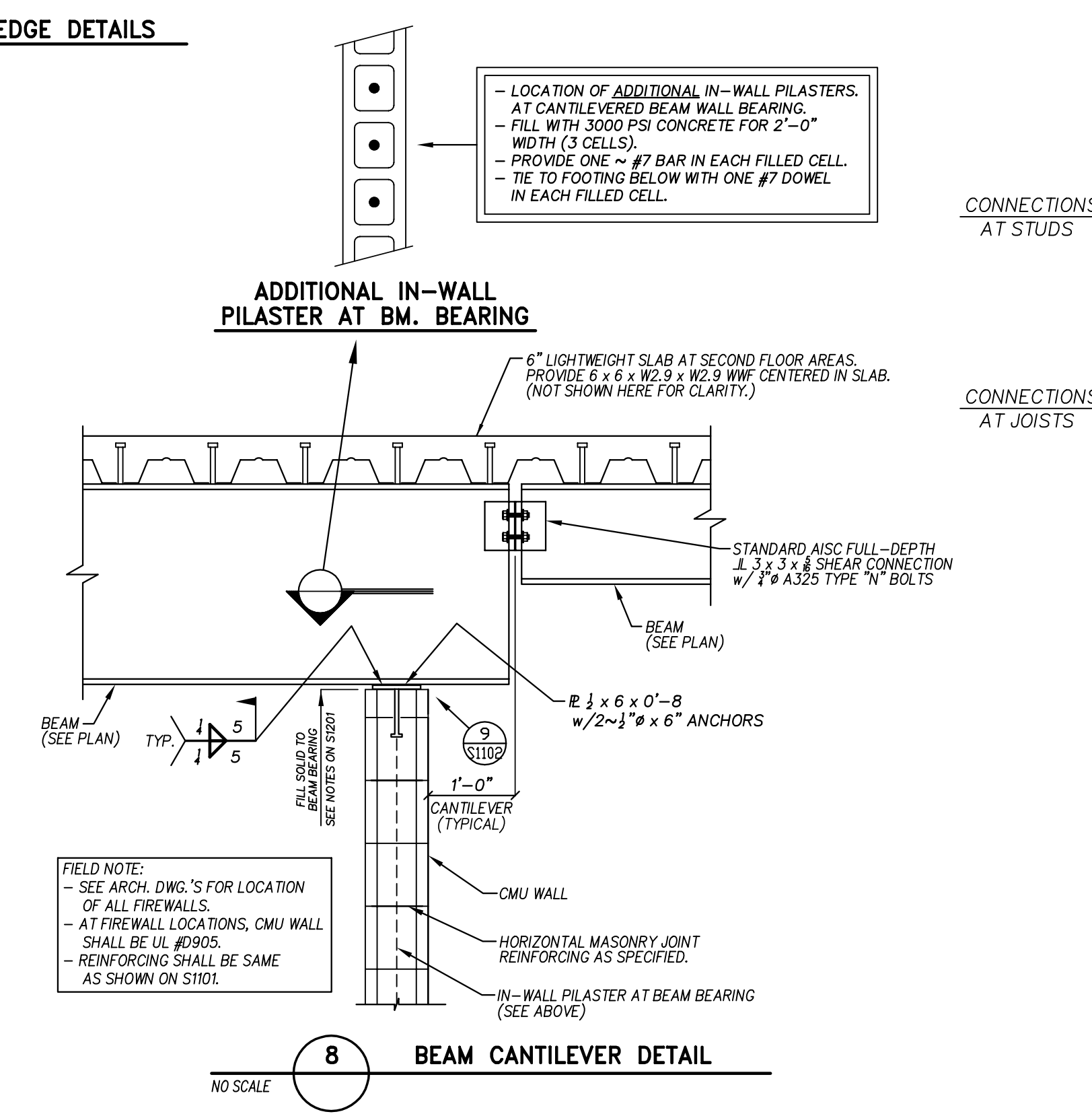
6 TYPICAL BEAM BEARING DETAIL



4 TYPICAL WF LINTEL BEAM AT CMU AND BRICK



8 BEAM CANTILEVER DETAIL

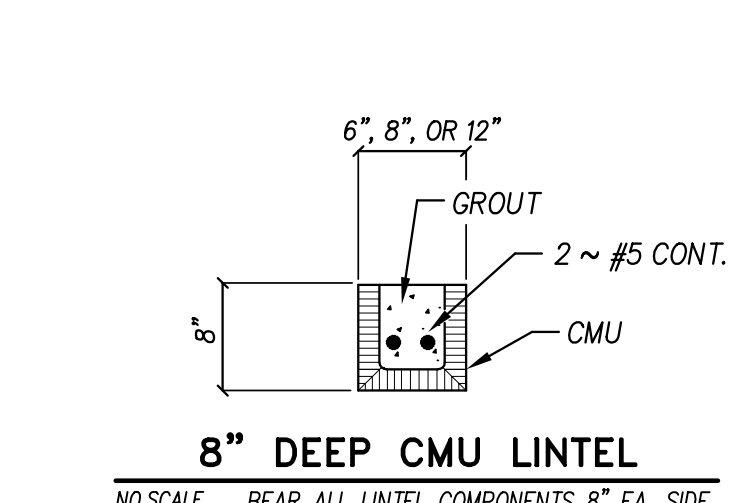


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LOOSE LINTEL SCHEDULE (TYPICAL, U.O.N.)				
MARK	SIZE	M.O.	BEARING	REMARKS
L1	L 3 1/2 x 3 1/2 x 1/4	1'-8 to 5'-0	8" @ EA. END	
L2	L 5 x 3 1/2 x 1/4	5'-0 to 7'-0	8" @ EA. END	
L3	L 6 x 3 1/2 x 1/4	7'-0 to 8'-0	8" @ EA. END	
L4	W 8 x 10	8'-0 to 10'-0	8" @ EA. END	BEAR SIM TO 6/S1102
L5	W 8 x 18	10'-0 to 12'-0	12" @ EA. END	BEAR SIM TO 6/S1102
L6	W 16 x 26	12'-0 to 20'-0	12" @ EA. END	BEAR SIM TO 6/S1102
L7	W 16 x 31	20'-0 >	12" @ EA. END	BEAR SIM TO 6/S1102



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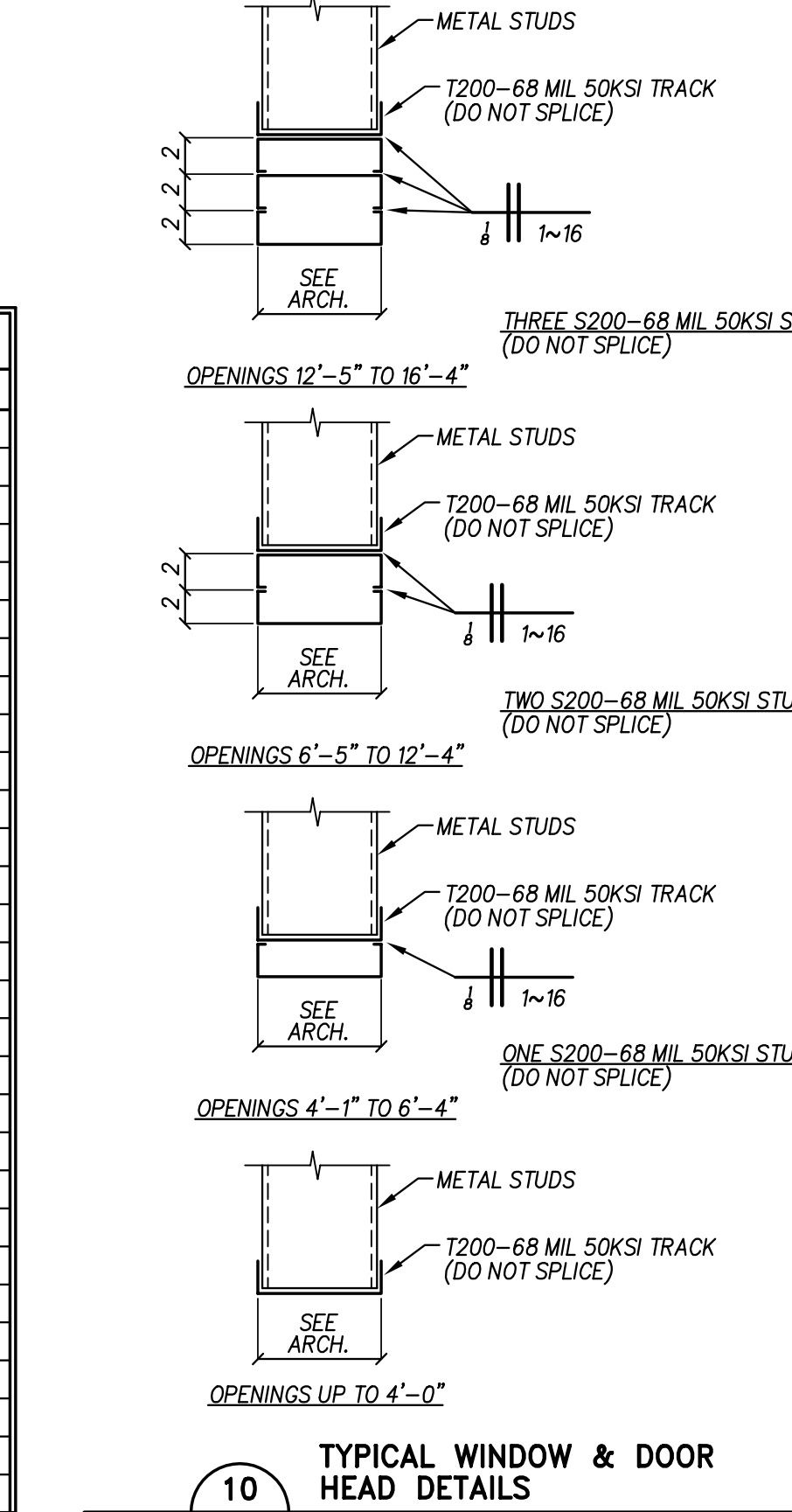
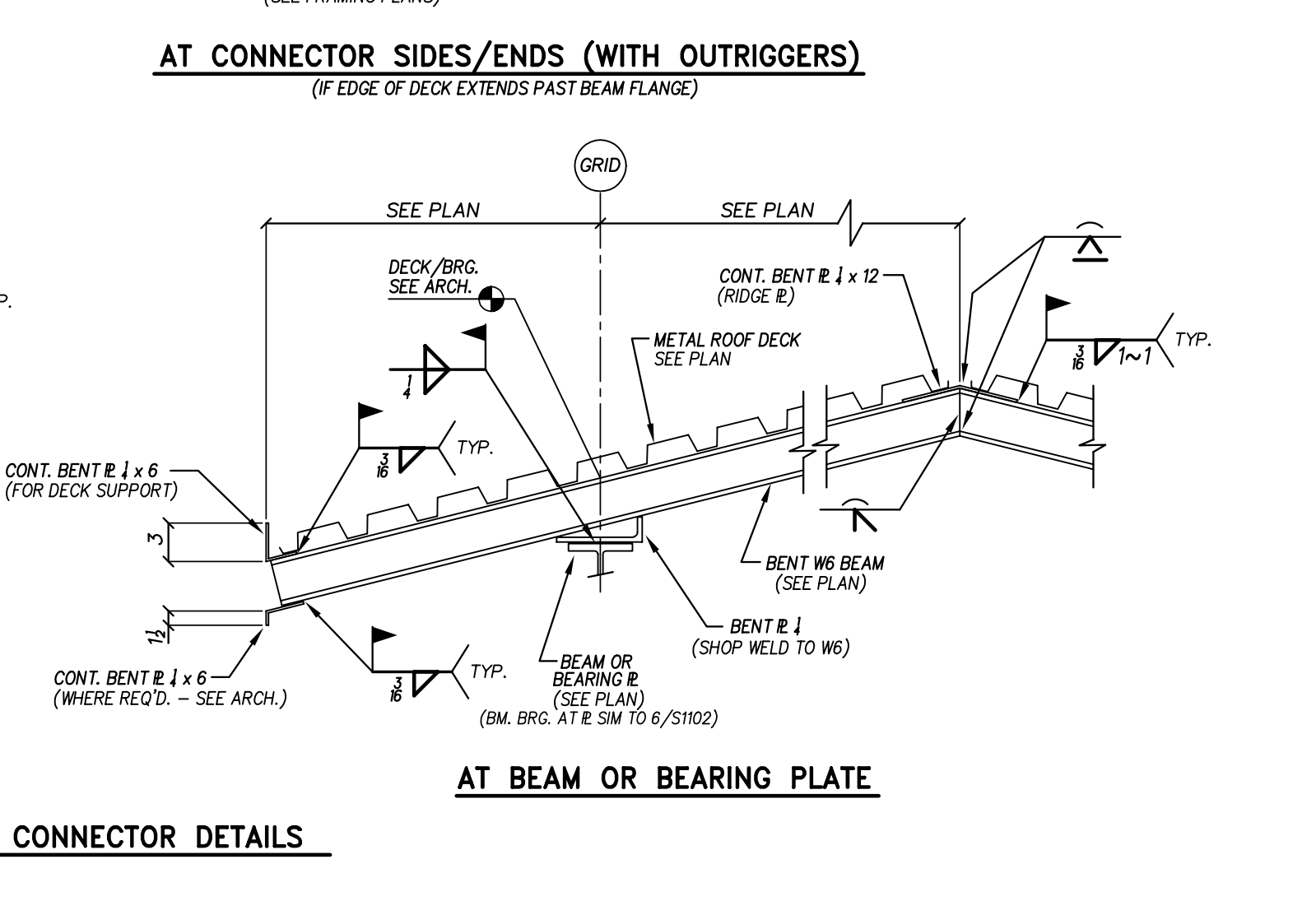
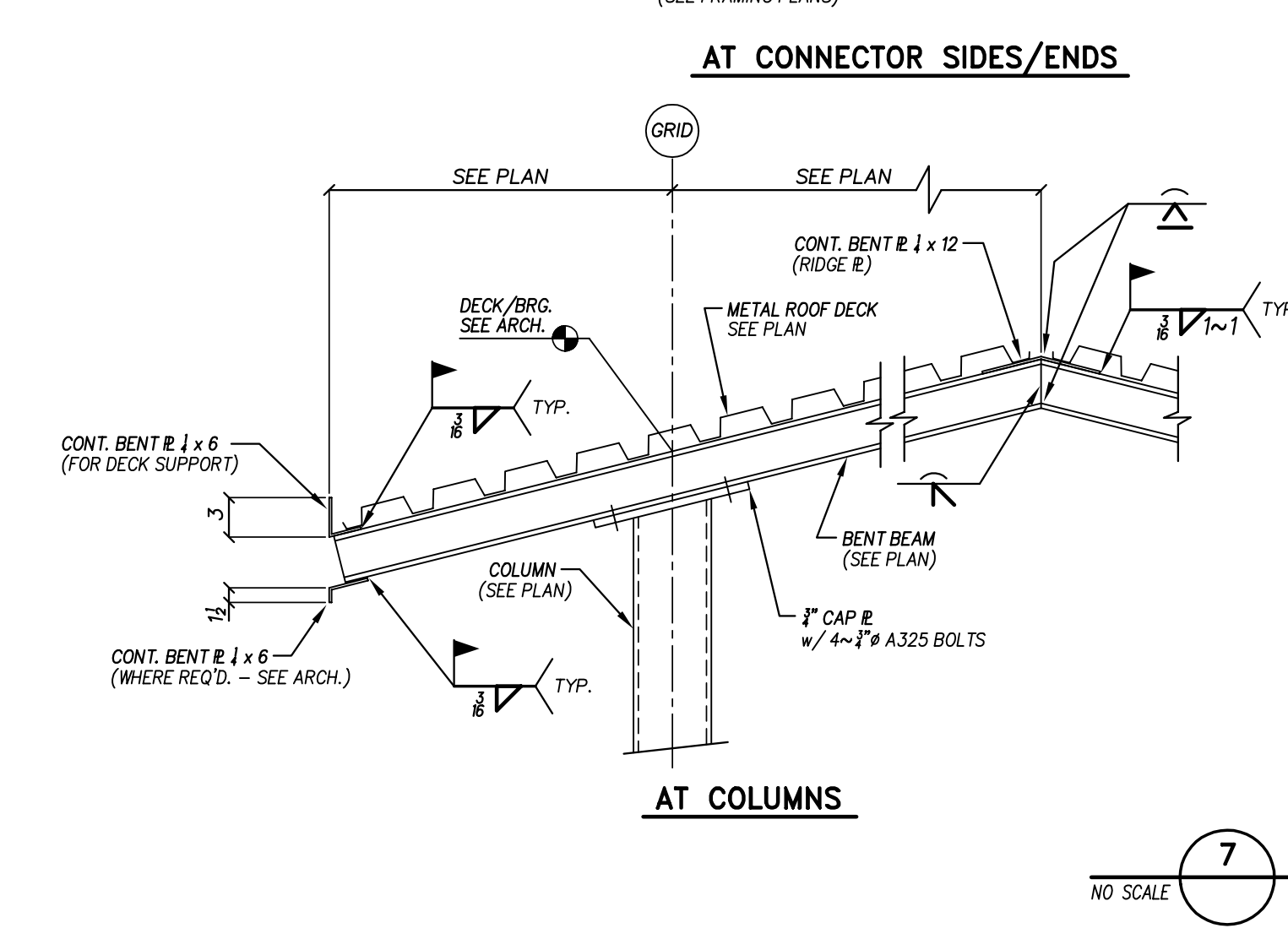
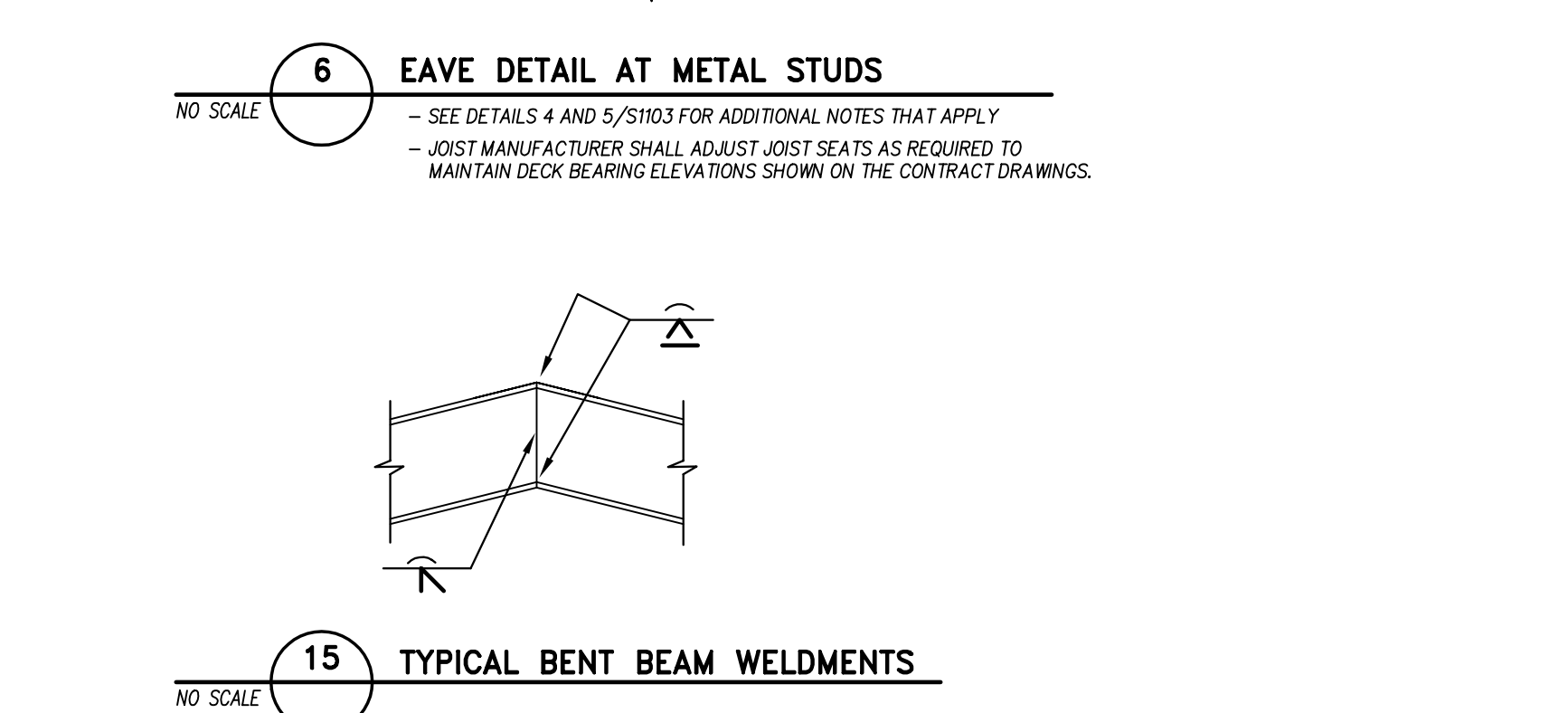
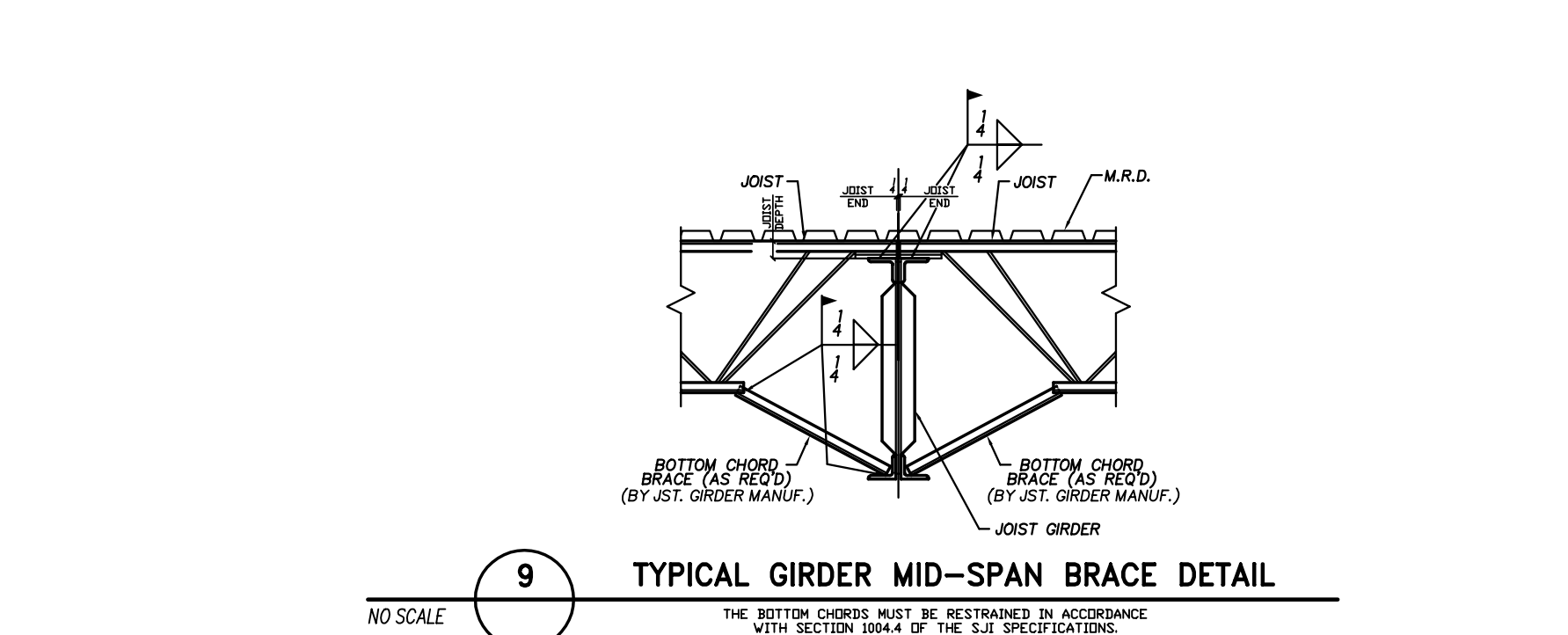
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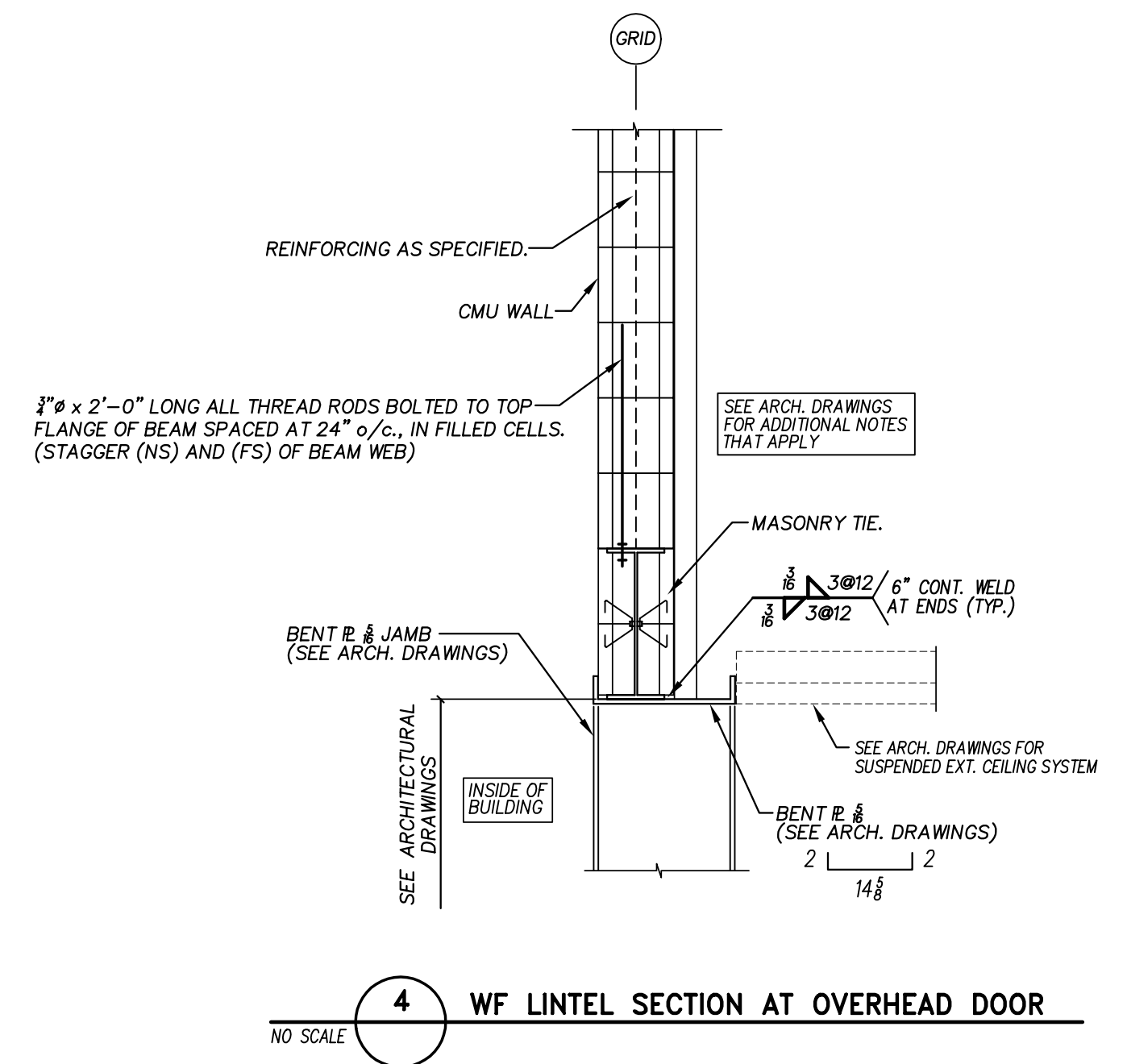
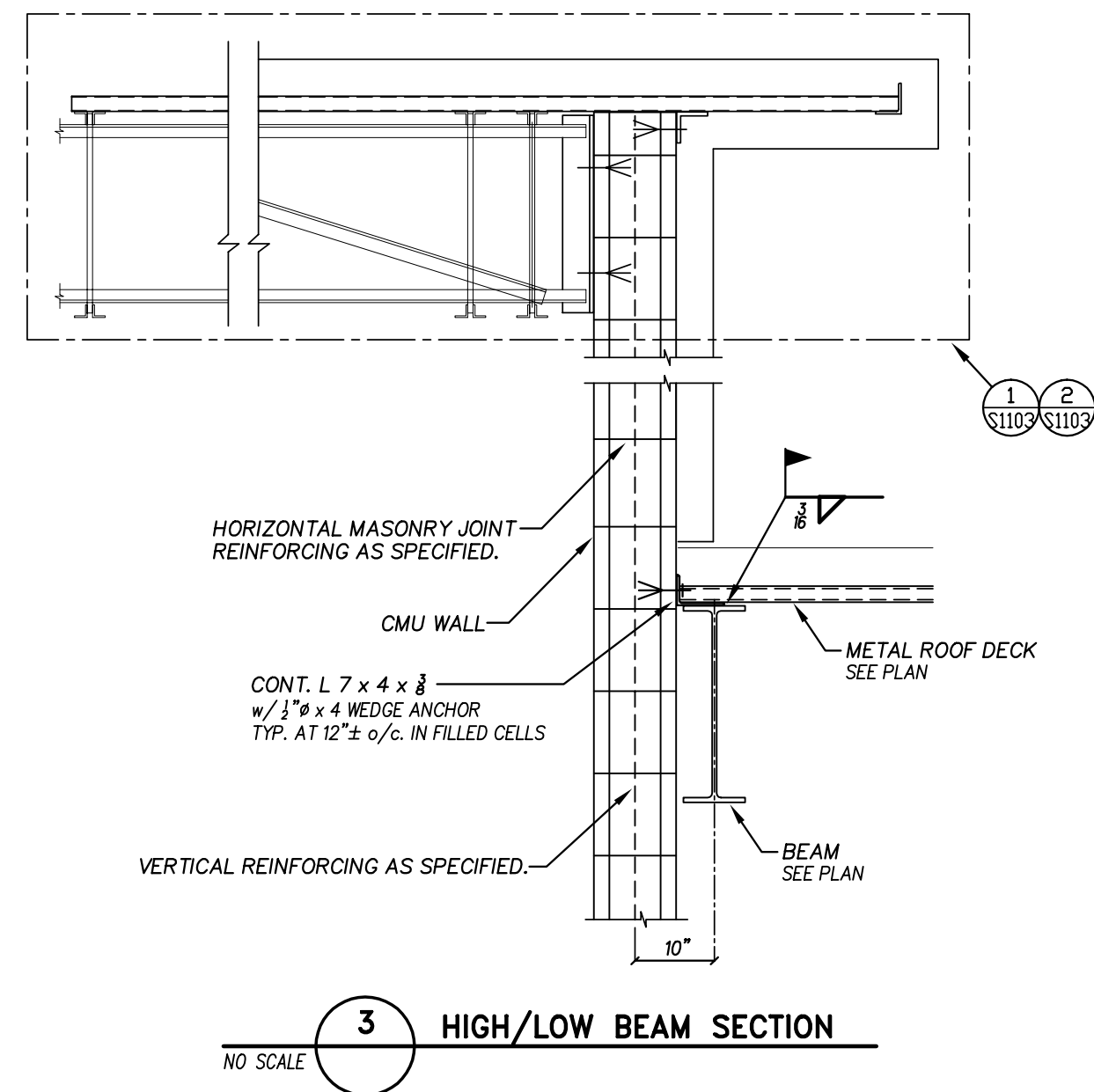
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**Hite associates**


**ARCHITECTURE / ENGINEERING / TECHNOLOGY**

2600 Meridian Drive / Greenville, NC 27858 / tel (252) 757-0323

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NC LIC C-1050

*QEP*



26 FEB 2025

**QUEEN ENGINEERING & DESIGN**

BRIAN K. QUEEN, LICENSE # 18991  
 ARCHITECT, ENGINEER, SURVEYOR & L.L.P.  
 2600 MERIDIAN DRIVE, GREENVILLE, NC 27858  
 TEL: 252-757-0323 FAX: 252-757-0326

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NEW CTE BUILDING FOR

# NEW BERTIE HIGH SCHOOL

716 US 13 NORTH / NCDPS UNIT 080 – SCHOOL 312  
 WINDSOR / BERTIE COUNTY / NORTH CAROLINA

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Project No. <b>22351</b>
Date: 26 FEB 2025
Drawing no. <b>S 1201</b>

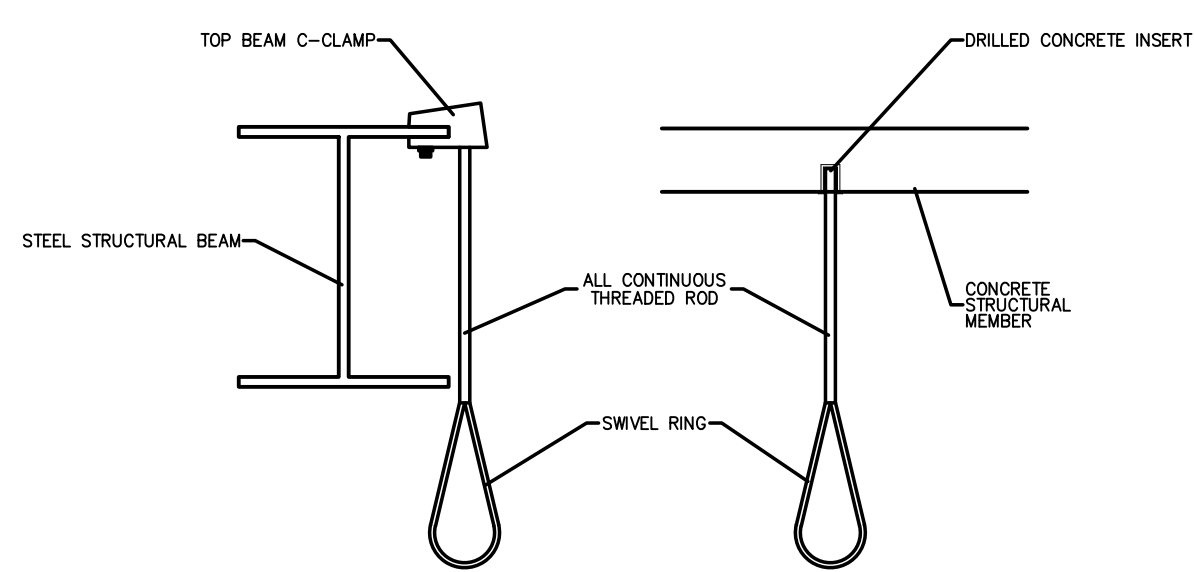




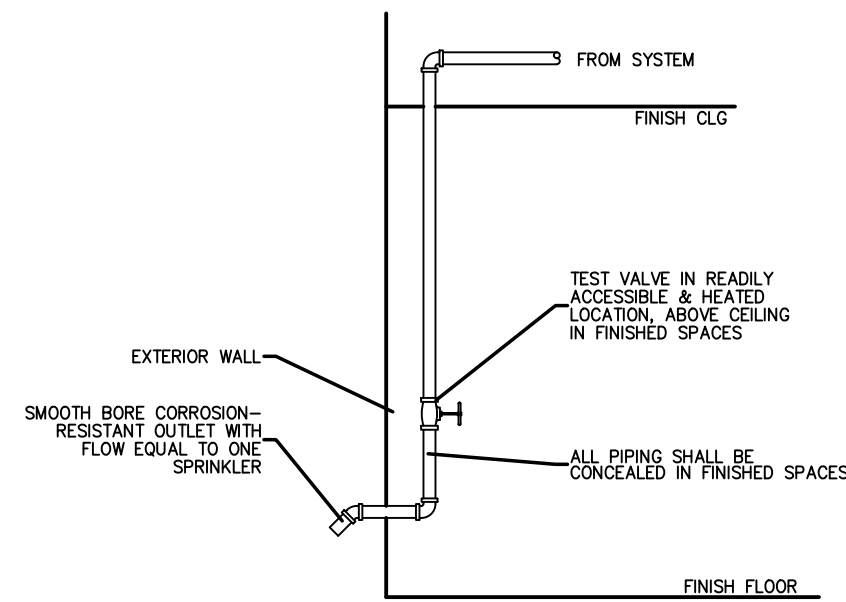




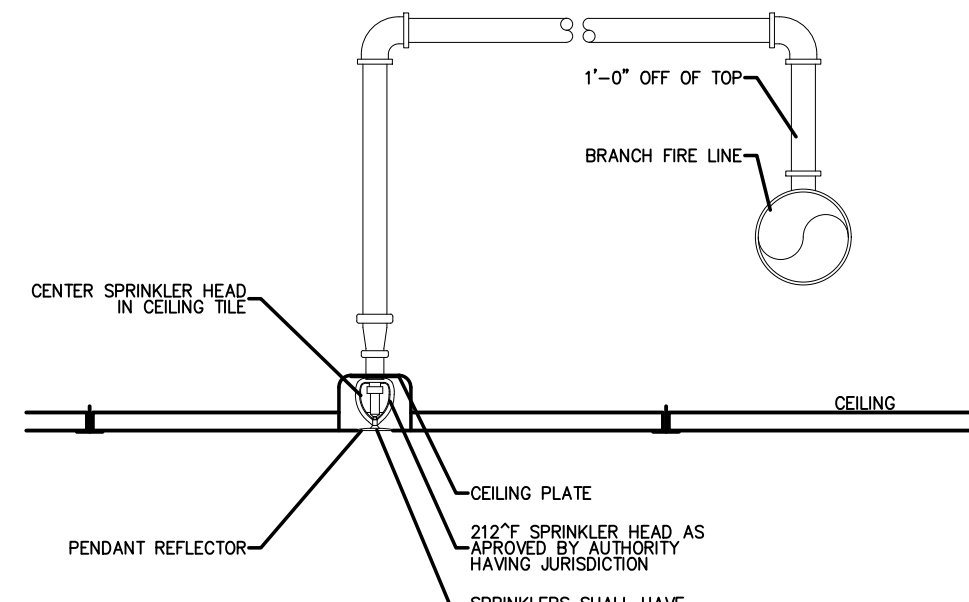
# 101.1 MAIN FLOOR SPRINKLER PLAN



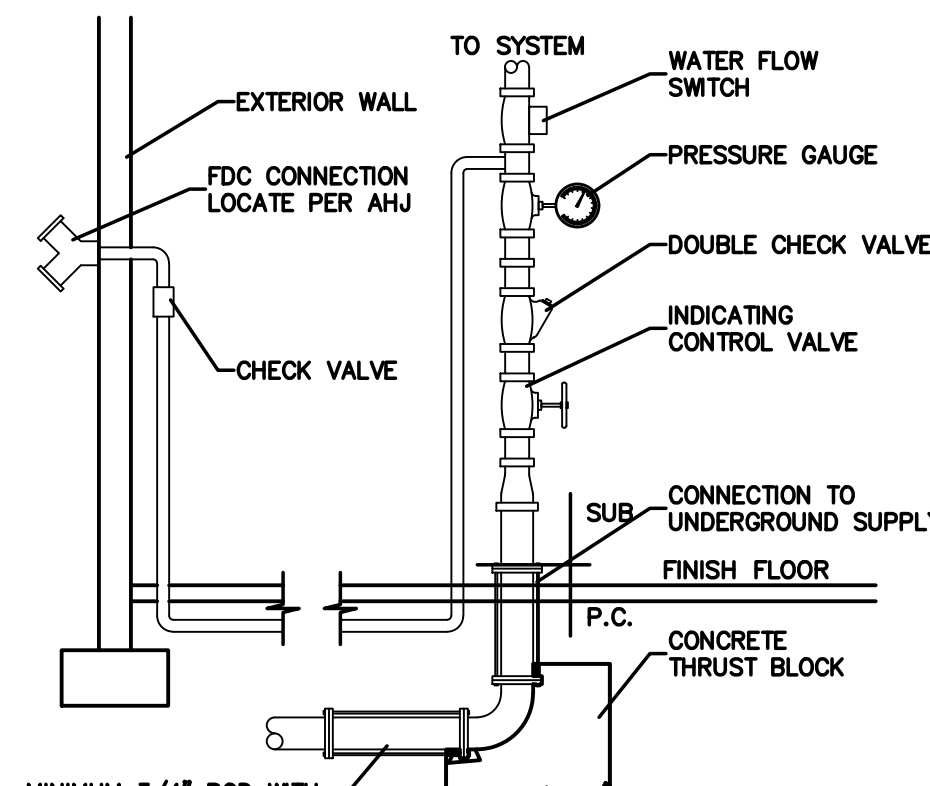
## 101.5 HANGER DETAILS



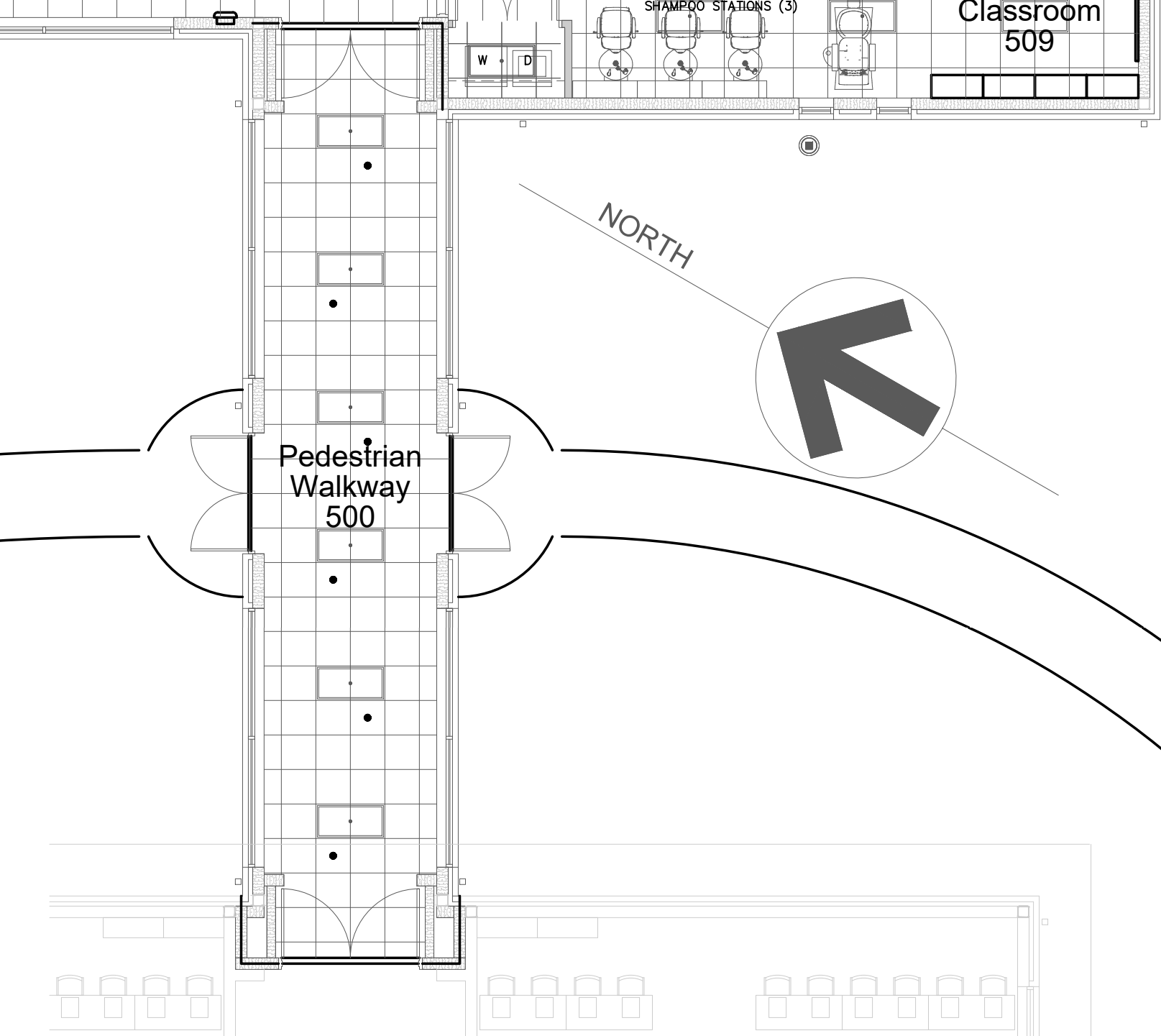
## 101.4 SYSTEM TEST CONNECTION



### 101.3 SPRINKLER HEAD DETAIL




## 101.2 SPRINKLER SYSTEM RISER


[illegible]

ES Project No. ES24055

**ENGINEERING**  
S O U R C E S O F N C, P A.



102-42 Regency Blvd. Greensville, NC 27834  
E-Mail Address: [genedmo@engsource.com](mailto:genedmo@engsource.com)  
Voice (252) 433-3338 • Fax (252) 433-0462 • E-Fax (252) 433-0462



[illegible]


## 101.1 PLATFORM SPRINKLER PLAN

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

ES24055


**ENGINEERING**

SOURCE of NC, P.A.



102-K2 Regency Blvd. Greenville, NC 27834  
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ES Project No:



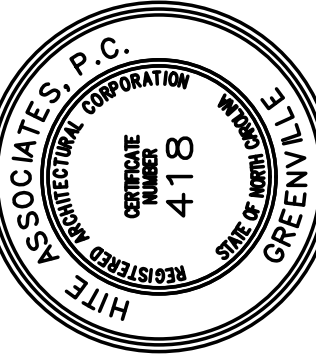
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Project No. 22351

Date: March 2025

Drawing no.

**NEW CTE BUILDING FOR  
Bertie High School**  
716 US 13 North / NCDPS Unit 080 - School 312  
Windsor / Bertie County / North Carolina

[illegible]

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