DESIGN DATA:

STRUCTURAL DESIGN HAS BEEN PERFORMED IN ACCORDANCE WITH THE FOLLOWING CODES AND STANDARDS:
A) 2020 NEW YORK STATE BUILDING CODE.
B) ACI 318-14, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
C) AISC, MANUAL OF STEEL CONSTRUCTION, ALLOWABLE STRESS DESIGN, 14TH ED.

1. DEAD LOADS
   SELF WEIGHT +
   ROOF: 10 PSF
   CEILING: 10 PSF
   FLOOR: 15 PSF

2. LIVE LOADS
   FLOOR - 100 PSF

3. WIND LOADS
   BASIC WIND SPEED: 115 MPH (3-second gust)
   RISK CATEGORY: III
   EXPOSURE CATEGORY: B

4. SNOW LOADS
   GROUND SNOW LOAD: 30 PSF
   DESIGN FLAT ROOF SNOW LOAD: 30 PSF

5. SEISMIC
   RISK CATEGORY: III
   SITE CLASS: D
   Sds: 0.264g
   Sd1: 0.093g
   SEISMIC DESIGN CATEGORY: B

GENERAL INFORMATION:

(UNLESS OTHERWISE NOTED OR SHOWN ON PLAN, THE FOLLOWING SHALL APPLY)

"LOADS" INDICATED ON THIS DRAWING ARE THOSE FOR THE DESIGN OF THE BUILDING SUPERSTRUCTURE

1. ALL DETAILS MARKED "TYPICAL" IN THE SET OF STRUCTURAL DRAWINGS SHALL BE APPLIED THROUGHOUT THE PROJECT AS REQUIRED TO SATISFY THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL COORDINATE REQUIREMENTS FOR QUANTITY AND LOCATION WHERE THE "TYPICAL" DETAILS APPLY.

2. FAILURE ON THE PART OF THE CONTRACTOR TO REVIEW THE DRAWINGS OF OTHER DISCIPLINES (i.e. ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, ETC.) TOGETHER WITH THE FULL EXTENT OF THE PROJECT SPECIFICATIONS DOES NOT RELIEVE THEM OF THE RESPONSIBILITY TO FURNISH AND INSTALL ITEMS THAT ARE PART OF THEIR WORK AS INDICATED BY THE DRAWINGS AND SPECIFICATIONS OF OTHER TRADES. ALL STRUCTURAL TRADE CONTRACTORS AND SUB-CONTRACTORS ARE PROHIBITED FROM EXCLUDING STRUCTURAL WORK FROM THEIR CONTRACT NOT SHOWN IN THE STRUCTURAL DRAWINGS.

3. ALL CONTRACTORS AND SUBCONTRACTORS WORKING ON THIS PROJECT TO HAVE A MINIMUM OF 5 YEARS VERIFIABLE EXPERIENCE IN THEIR RESPECTIVE FIELDS.

4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD PRIOR TO ORDERING AND PRE-FABRICATED ITEMS, INCLUDED BY NOT LIMITED TO; TRUSSES, SIPS, PLANK AND STEEL.

5. DRAWINGS MAY NOT BE SCALED. USE NOTES AND DIMENSIONS SPECIFIED ON DRAWINGS AND CONFIRM THESE DIMENSIONS WITHIN FIELD MEASUREMENTS DURING CONSTRUCTION.

6. DISCREPANCIES, OMISSIONS OR UNFORESEEN PROBLEMS DISCOVERED AT SITE SHALL BE REPORTED TO THE ENGINEER FOR IMMEDIATE CONSULTATION AND AMENDMENT.

7. TEMPORARY SHORING AND SHORING OF EXCAVATION IS BY OTHERS. THESE DRAWINGS SHOW FINAL CONDITIONS ONLY.

STRUCTURAL STEEL GENERAL NOTES

(UNLESS OTHERWISE NOTED OR SHOWN ON PLAN, THE FOLLOWING SHALL APPLY)

1. STRUCTURAL STEEL SHALL CONFORM TO THE A.I.S.C. STEEL CONSTRUCTION MANUAL 14TH EDITION.
2. UNLESS OTHERWISE NOTED, ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS.

MEMBER	A.S.T.M.	MIN. STRENGTH
ROLLED SHAPES	A992	50 KSI
BASE PLATES	A572	42 KSI
PLATES,CHANNELS, & ANGLES	A36	36 KSI
CONNECTION BOLTS	A325	92 KSI
ANCHOR BOLTS	F1554	---
THREADED BOLTS	A36	36 KSI
NON-SHRINK GROUT	C1107	8,000 PSI

3. WELDING SHALL BE IN ACCORDANCE WITH A.W.S. D1.1 USING E7OXX ELECTRODES. UNLESS OTHERWISE NOTED, PROVIDE CONTINUOUS MINIMUM SIZED FILLET WELDS PER A.I.S.C. REQUIREMENTS. FILLER MATERIAL SHALL HAVE A MINIMUM YIELD STRENGTH OF 58 K.S.I.
4. MOMENT CONNECTIONS DENOTED THUS (►) ON PLAN. SEE TYPICAL DETAILS.
5. HOLES IN STEEL BEAMS SHALL BE DRILLED OR PUNCHED. ALL SLOTTED HOLES SHALL BE PROVIDED WITH SMOOTH EDGES. BURNING OF HOLES AND TORCH CUTTING AT THE SITE IS NOT PERMITTED.
6. THE STRUCTURAL STEEL ERECTOR SHALL PROVIDE TEMPORARY GUYING AND BRACING AS REQUIRED. COLUMNS, ANCHOR BOLTS, BASE PLATES, ETC. HAVE BEEN DESIGNED FOR THE FINAL COMPLETE CONDITION, AND HAVE NOT BEEN INVESTIGATED FOR POTENTIAL LOADINGS ENCOUNTERED DURING STEEL ERECTION AND CONSTRUCTION. ANY INVESTIGATION OF THE COLUMNS, ANCHOR BOLTS, FRAMING, ETC. FOR ADEQUACY DURING THE STEEL ERECTION AND CONSTRUCTION PROCESS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

CAST-IN-PLACE CONCRETE GENERAL NOTES:

(UNLESS OTHERWISE NOTED OR SHOWN ON PLAN, THE FOLLOWING SHALL APPLY)

1. CONCRETE WORK SHALL CONFORM WITH THE REQUIREMENTS OF THE AMERICAN CONCRETE INSTITUTE ACI 318 (LATEST EDITION).
2. UNLESS OTHERWISE INDICATED ON DRAWINGS, CAST-IN-PLACE CONCRETE SHALL DEVELOP A STRENGTH OF 3,500 PSI (FOOTINGS, FOUNDATION WALLS AND RETAINING WALLS); 3,500 PSI (SLAB ON GRADE) AT 28 DAYS.
3. TEMPERATURE REINFORCING SHALL BE SUFFICIENTLY EMBEDDED TO DEVELOP FULL STRENGTH IN CONCRETE WALLS AND SLABS.
4. PROVIDE ADEQUATE TIES FOR REINFORCEMENT IN SLABS, BEAMS, PIERS AND WALLS. REINFORCEMENT TO BE HELD AT CORRECT DISTANCE FROM FORMS AND EARTH BY STEEL CHAIRS OR TIES.
5. FOLLOW C.R.S.I. RULES FOR PLACING OF REINFORCING STEEL AND ACCESSORIES.
6. THIS CONTRACTOR SHALL COOPERATE WITH OTHER TRADES AND WHERE REQUIRED INSTALL ALL BUILT-IN WORK, SLEEVES, INSERTS, ETC., AS REQUIRED FOR A COMPLETE JOB.
7. STRUCTURAL MEMBERS SHALL BE POURED FOR THEIR FULL DEPTHS IN ONE OPERATION. CONSTRUCTION JOINTS SUCH AS A DAY'S POUR JOINTS SHALL BE LOCATED IN THE MIDDLE THIRD OF THE SPAN, MAIN REINFORCING TO RUN THROUGH THE JOINT, KEY AND ROUGHEN JOINTS TO EXPOSE AGGREGATE FOR CHEMICAL BOND.
8. NO HORIZONTAL JOINTS SHALL BE PLACED IN WALLS EXCEPT AS SHOWN ON THE DRAWINGS, WITHOUT THE APPROVAL OF THE ENGINEER.
9. STRUCTURAL SLABS ON GRADE SHALL BE OF A THICKNESS AND REINFORCED AS INDICATED ON DRAWINGS.
10. SLABS-ON-GRADE SHALL HAVE THICKENINGS, DEPRESSIONS, OPENINGS, ETC., AS REQUIRED OR AS SHOWN HEREIN OR ON ARCHITECTURAL DRAWINGS.
11. PROVIDE 100% CONTINUITY OVER SUPPORTS FOR CONTINUOUS SLABS AND BEAMS.
12. TOP ELEVATION OF SLABS SHALL VARY ACCORDING TO FINISH FLOOR MATERIAL. SEE ARCHITECTURAL DRAWINGS.
13. SEE MECHANICAL AND ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS IN, FLOORS AND WALLS NOT SHOWN ON STRUCTURAL DRAWINGS.
15. MAXIMUM STEP OF FOOTINGS SHALL BE ONE VERTICALLY TO TWO HORIZONTALLY WHERE ELEVATIONS CHANGE.
16. CONCRETE SHALL CONSIST OF THE FOLLOWING:
    - READY MIX CONCRETE (ASTM C94)
    - MAX WATER TO CEMENT RATIO = 0.50
    - MAX AGGREGATE CONTENT SIZE OF 3/4 INCH (ASTM C33)
    - MAX SLUMP OF 5" + OR - AN INCH (ASTM C143)
    - PORTLAND CEMENT: ASTM-C 150, TYPE 1
    - CLEAN POTABLE DRINKING WATER
    - AIR CONTENT TO BE 6% +/- 1.5% (INTERIOR SLABS TO HAVE 0% AIR)
17. REINFORCING STEEL SHALL CONSIST OF THE FOLLOWING:
    - REINFORCING BARS: ASTM -A 615 GRADE 60 KSI
    - WELDED WIRE FABRIC: ASTM-A 185
18. PROVIDE CONTINUOUS REINFORCING WHEREVER POSSIBLE, PLACE ONLY AS SHOWN OR APPROVED, STAGGER SPLICES WHERE POSSIBLE.
19. ALL REINFORCING STEEL AND EMBEDMENT TO BE HELD SECURELY IN PLACE PRIOR TO PLACING CONCRETE. PROVIDE SUFFICIENT SUPPORTS TO ALLOW WALKING ON REINFORCEMENT.
20. DETAIL ACCORDING TO ACI STANDARD 315, MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCING CONCRETE STRUCTURES.
21. CONCRETE MEMBERS SHALL NOT BE LOADED UNTIL SATISFACTORY CONCRETE STRENGTH HAS BEEN OBTAINED.
22. NO ADMIXTURES MAY BE USED UNLESS PRIOR APPROVAL BY THE OWNER/ENGINEER.
23. COLD WEATHER REQUIREMENT SHALL BE USED DURING FREEZING OR NEAR FREEZING WEATHER - ACI 306.1-90. COLD WEATHER IS DEFINED AS 3 DAYS WITH AVG. TEMP. BELOW 40F.
24. DURING HOT WEATHER CONCRETE SHALL BE PLACED AND CURED IN ACCORDANCE WITH ACI 305.

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STATE OF NEW YORK — BRIAN CLARK — 090156 — LICENSED PROFESSIONAL ENGINEER
EXP. DATE: 2/28/2026

NANUET

NUFSD BOND PROJECT PHASE 5 - BARR MS

- ☐ SED#50-01-08-03-0-002-020 (HIGHVIEW ES)
- ☐ SED#50-01-08-03-7-007-002 (Maintenance)
- ☐ SED#50-01-08-03-7-012-004 (OEC)
- ☐ SED#50-01-08-03-0-001-026 (MILLER ES)
- ■ SED#50-01-08-03-0-004-022 (BARR MS)

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Maintenance Building
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Miller Elementary School
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Nanuet, NY 10954

A MacArthur Barr Middle School
143 Church St
Nanuet, NY 10954

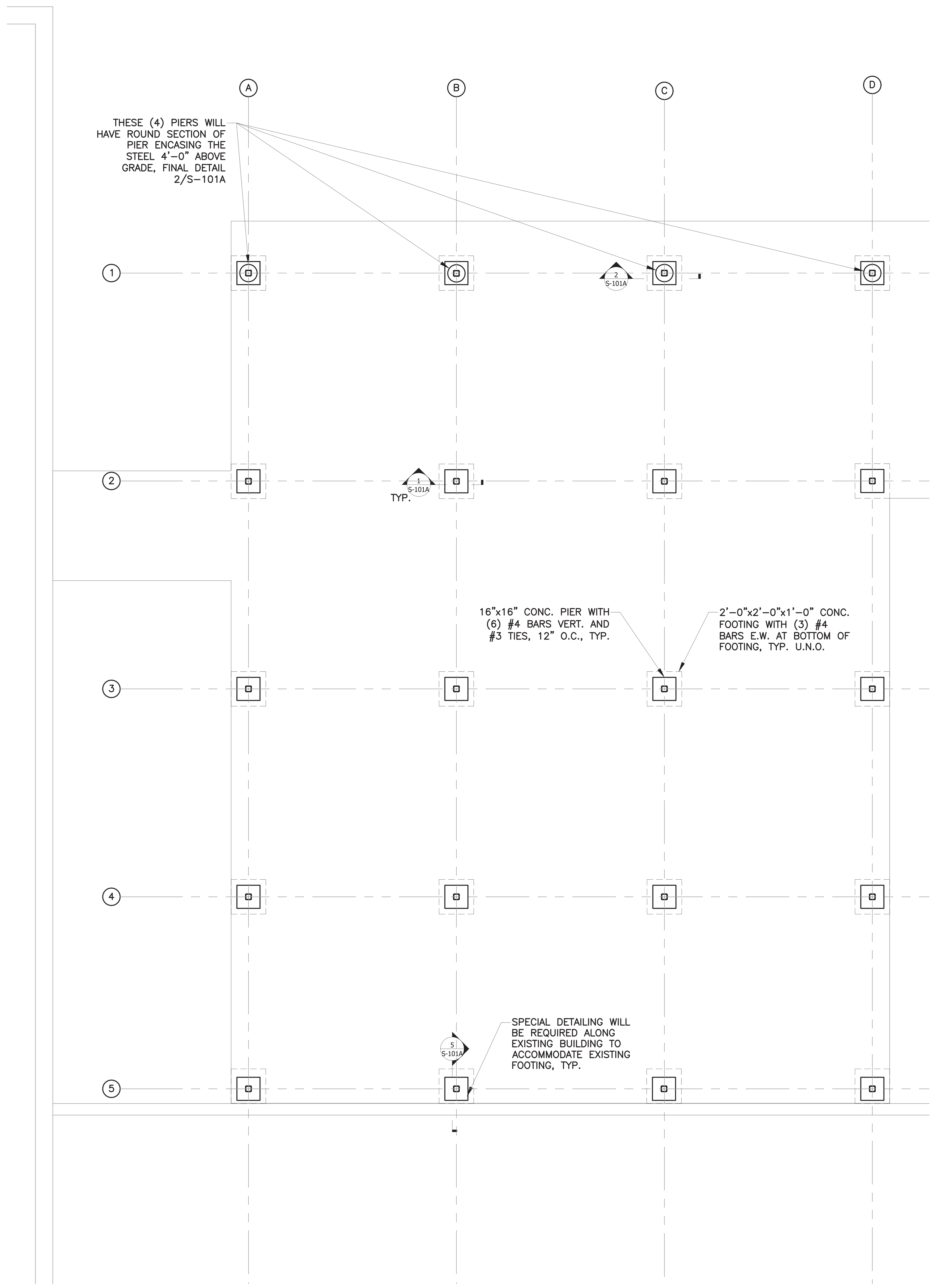
KEY PLAN

REVISIONS

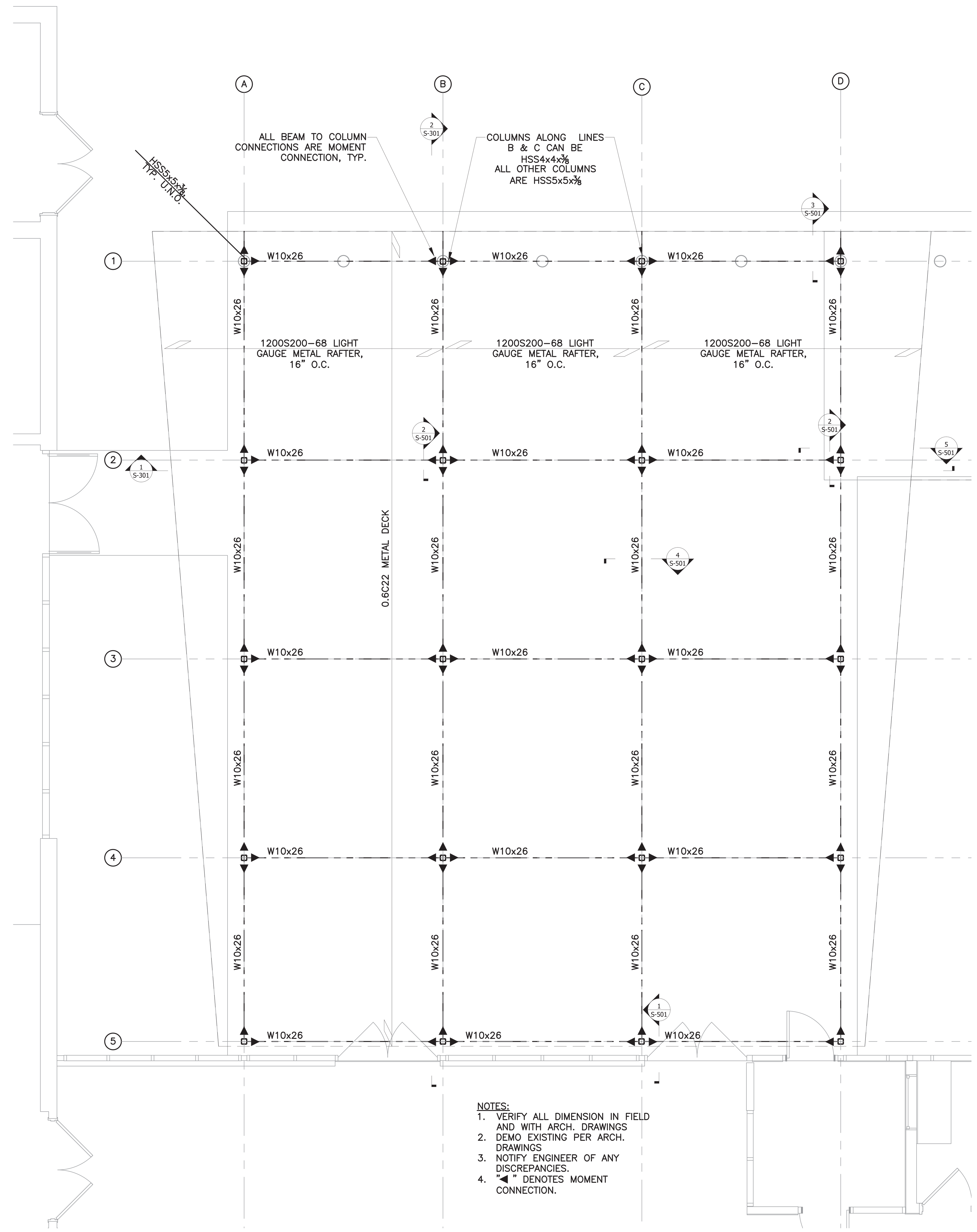
No.	Description	Date

ISSUED: BID SET
DATE: 06/21/2024
SCALE: AS NOTED
SHEET NAME:
STRUCTURAL NOTES
SHEET NUMBER:
BM-S001

DRAWN BY: DRW
CHECKED BY: CHK
File Path:



1/S-101 FOUNDATION PLAN ENTRANCE CANOPY
SCALE: 1/4"=1'-0"



NOTES:
1. VERIFY ALL DIMENSION IN FIELD AND WITH ARCH. DRAWINGS
2. DEMO EXISTING PER ARCH. DRAWINGS
3. NOTIFY ENGINEER OF ANY DISCREPANCIES.
4. "◄" DENOTES MOMENT CONNECTION.

2/S-101 ROOF FRAMING PLAN ENTRANCE CANOPY
SCALE: 1/4"=1'-0"

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EXP. DATE: 2/28/2026

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NUFSD BOND PROJECT PHASE 5 - BARR MS

- ☐ SED#50-01-08-03-0-002-020 (HIGHVIEW ES)
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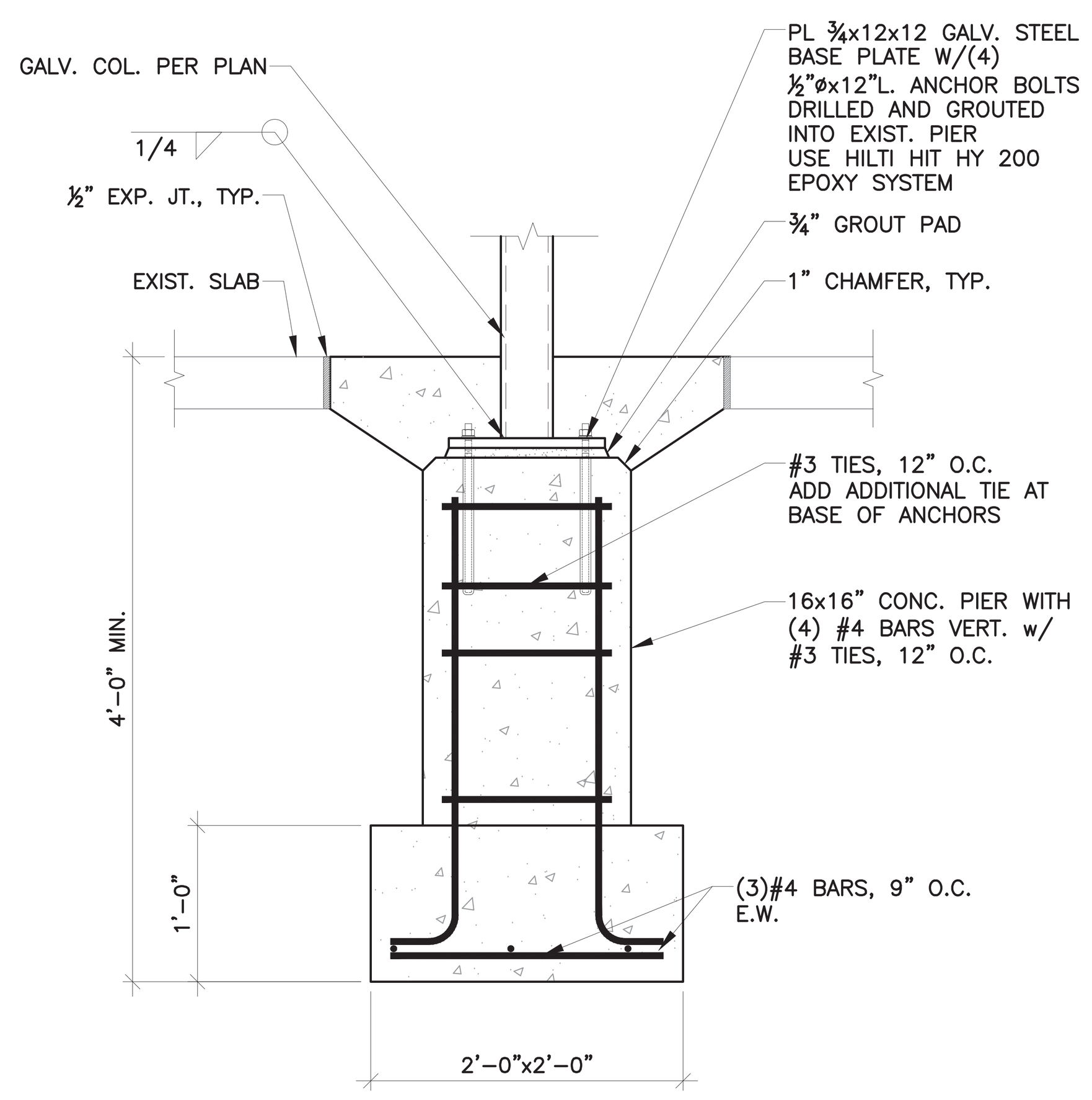
REVISIONS

No.	Description	Date

ISSUED: BID SET
DATE: 06/21/2024
SCALE: AS NOTED
SHEET NAME:
STRUCTURAL PLANS ENTRANCE CANOPY
SHEET NUMBER:
BM-S101



1 / S-101A COLUMN REPLACEMENT DETAIL
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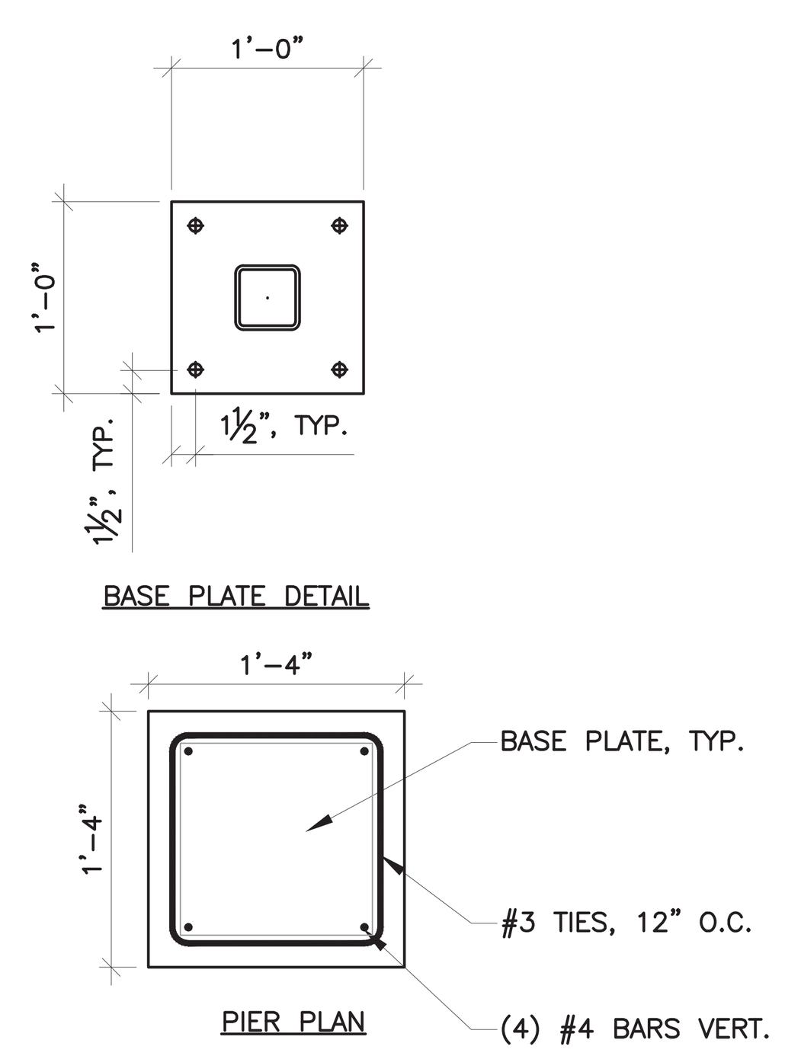

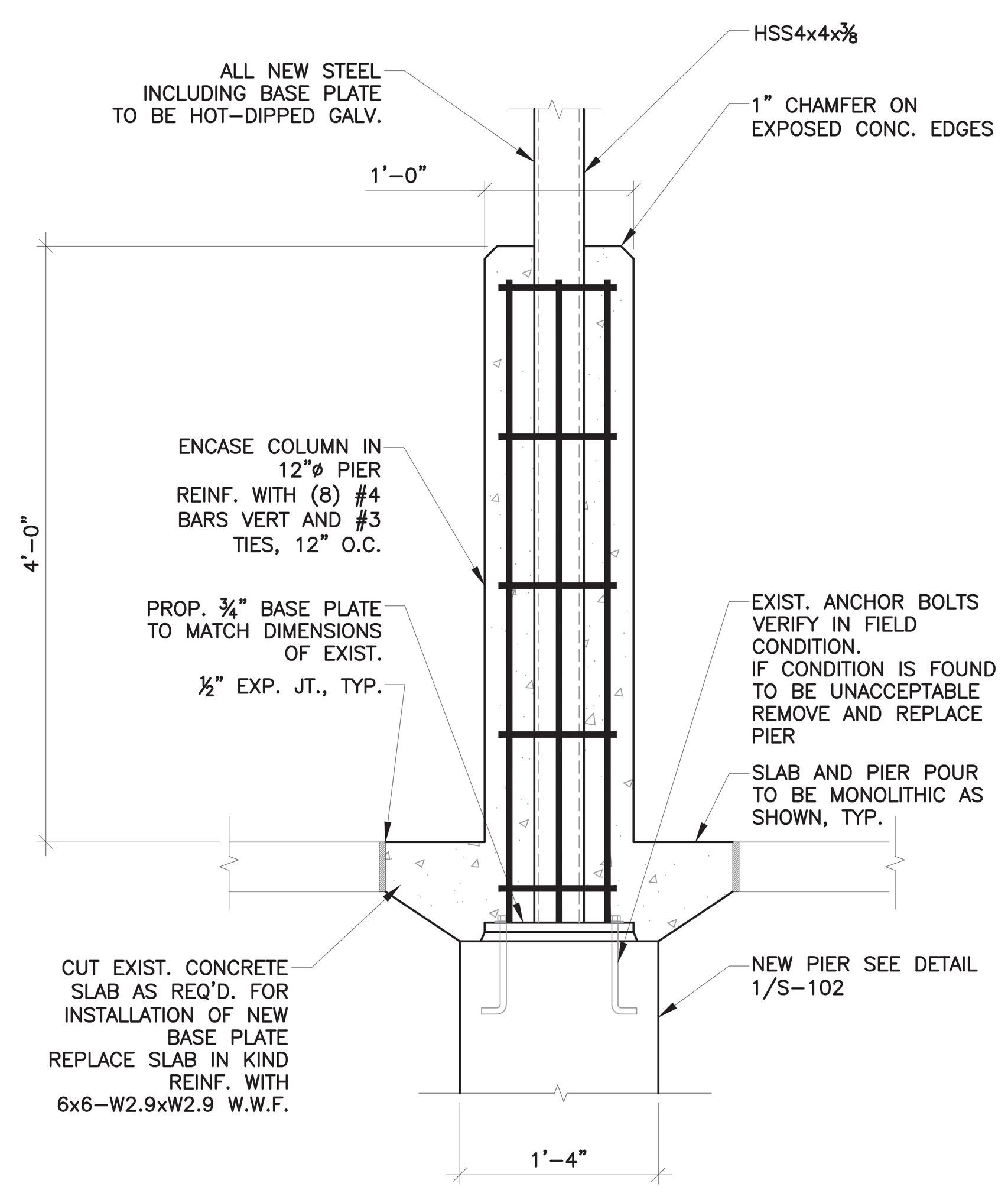

2 / S-101A COLUMN REPLACEMENT DETAIL WITH PIER ABOVE SLAB
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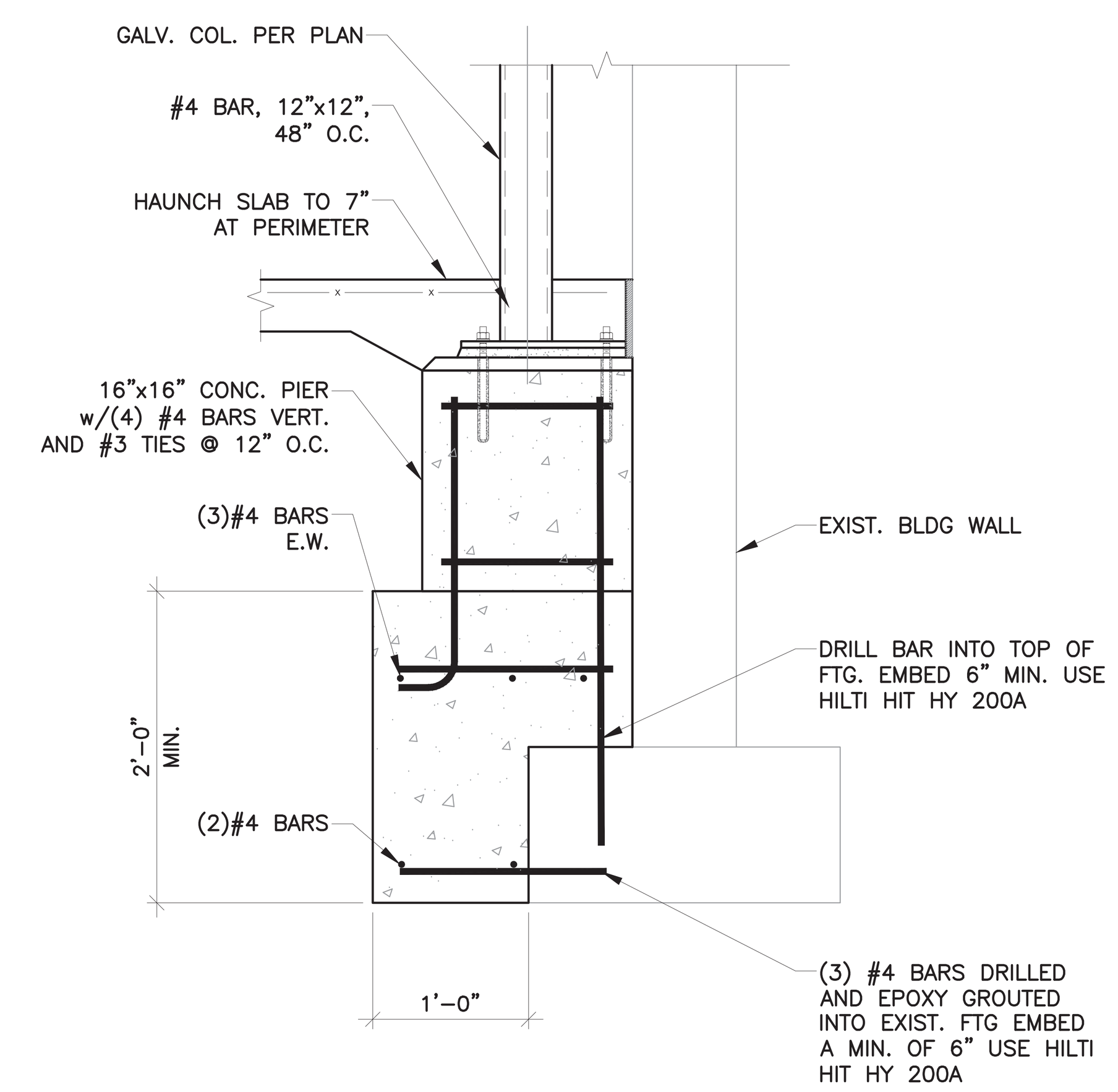

ARCHITECT

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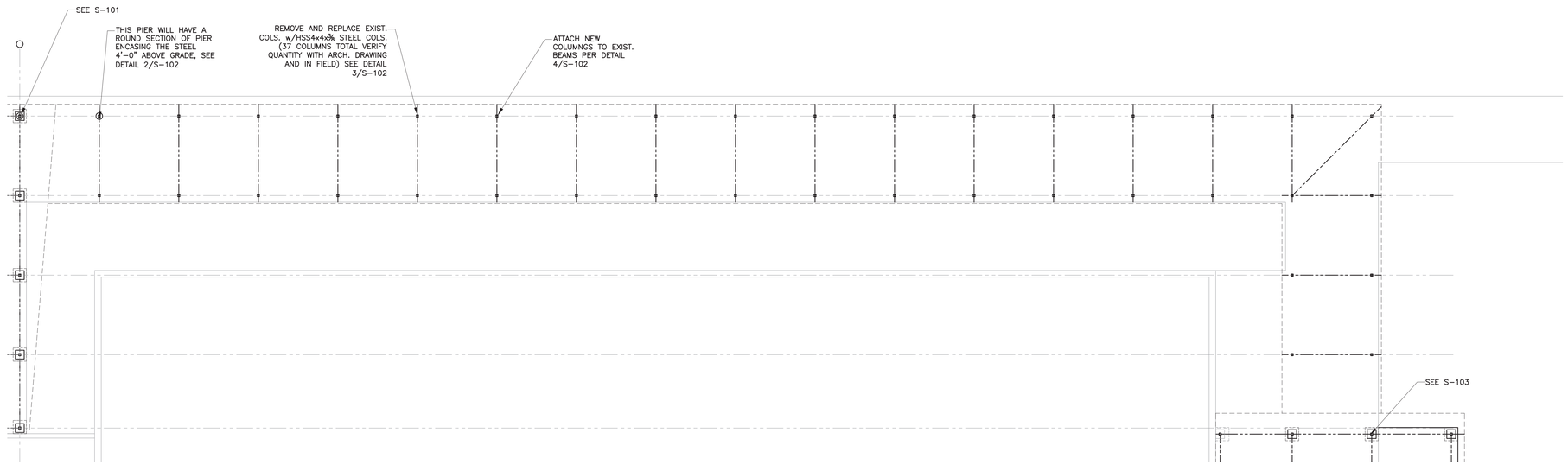
KEY PLAN

REVISIONS

No.	Description	Date

ISSUED: BID SET
DATE: 06/21/2024
SCALE: AS NOTED
SHEET NAME:
STRUCTURAL PLANS
EXIT CANOPY
SHEET NUMBER:
BM-S101A



1 S-102 STRUCTURAL PLAN – LONG CANOPY
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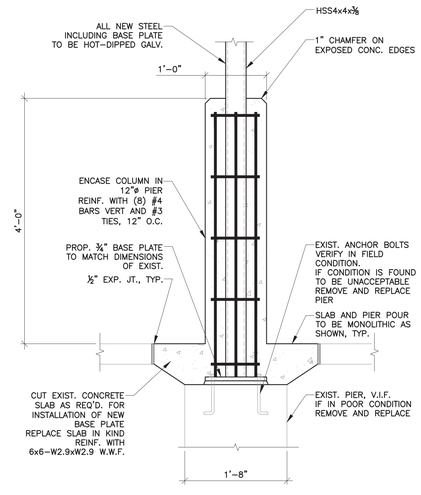

2 S-102 COLUMN REPLACEMENT DETAIL WITH PIER ABOVE SLAB
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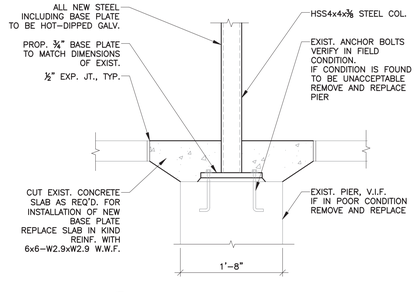

3 S-102 COLUMN REPLACEMENT DETAIL
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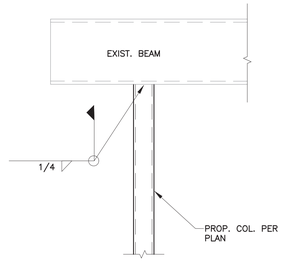

4 S-102 COLUMN ATTACHMENT DETAIL
SCALE: N.T.S.

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KEY PLAN

REVISIONS

No.	Description	Date

ISSUED: BID SET

DATE: 06/21/2024

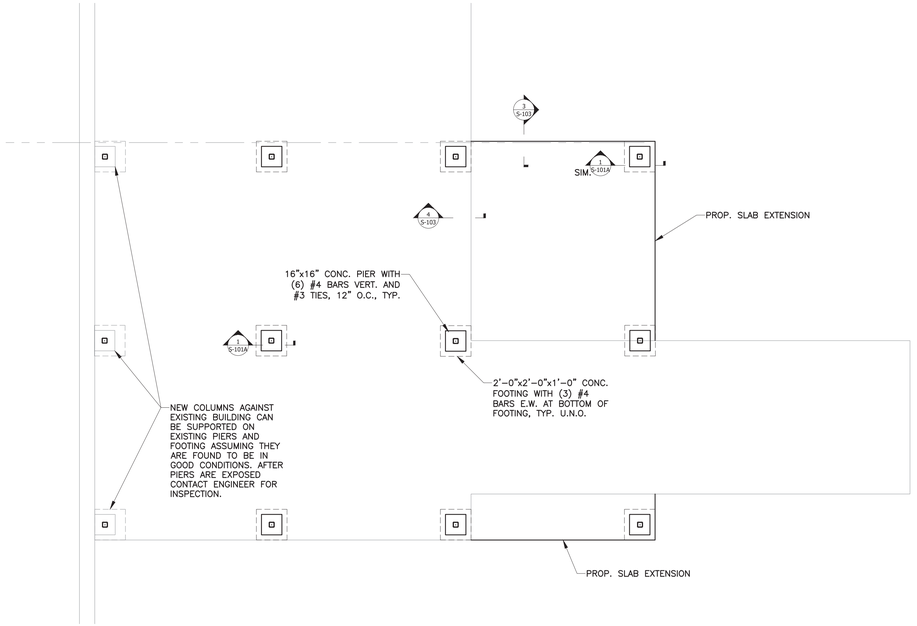
SCALE: AS NOTED

SHEET NAME:
STRUCTURAL PLAN
LONG CANOPY

SHEET NUMBER:

BM-S102

DRAWN BY: DRW
CHECKED BY: BRY, CHK
File Path:



1 S-103 FOUNDATION PLAN EXIT CANOPY
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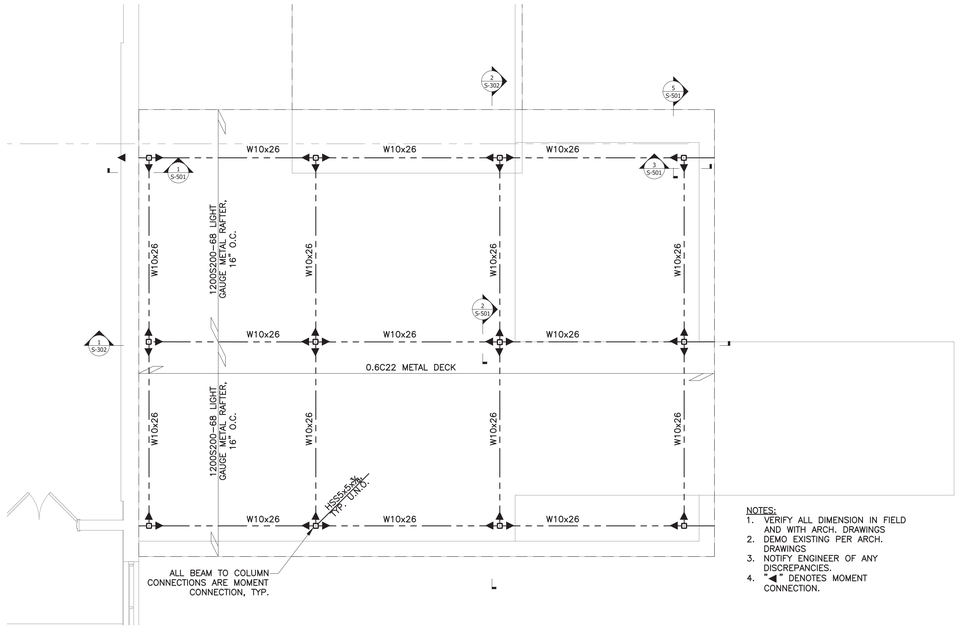
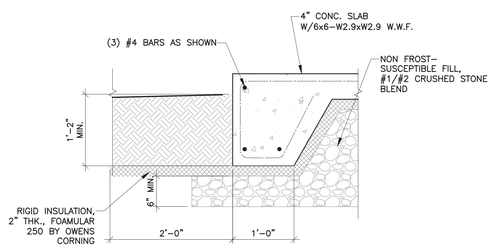


2 S-103 ROOF FRAMING PLAN EXIT CANOPY
SCALE: 1/4"=1'-0"



3 S-103 HAUNCHED SLAB DETAIL
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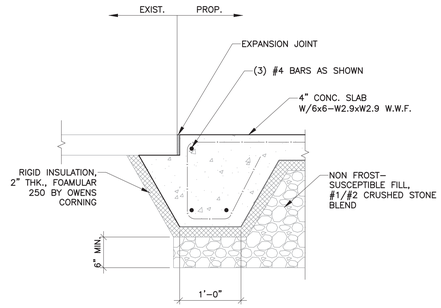

4 S-103 HAUNCHED SLAB DETAIL
SCALE: 1"=1'-0"

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NUFSD BOND PROJECT PHASE 5 - BARR MS

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KEY PLAN

REVISIONS

No.	Description	Date

ISSUED: BID SET

DATE: 06/21/2024

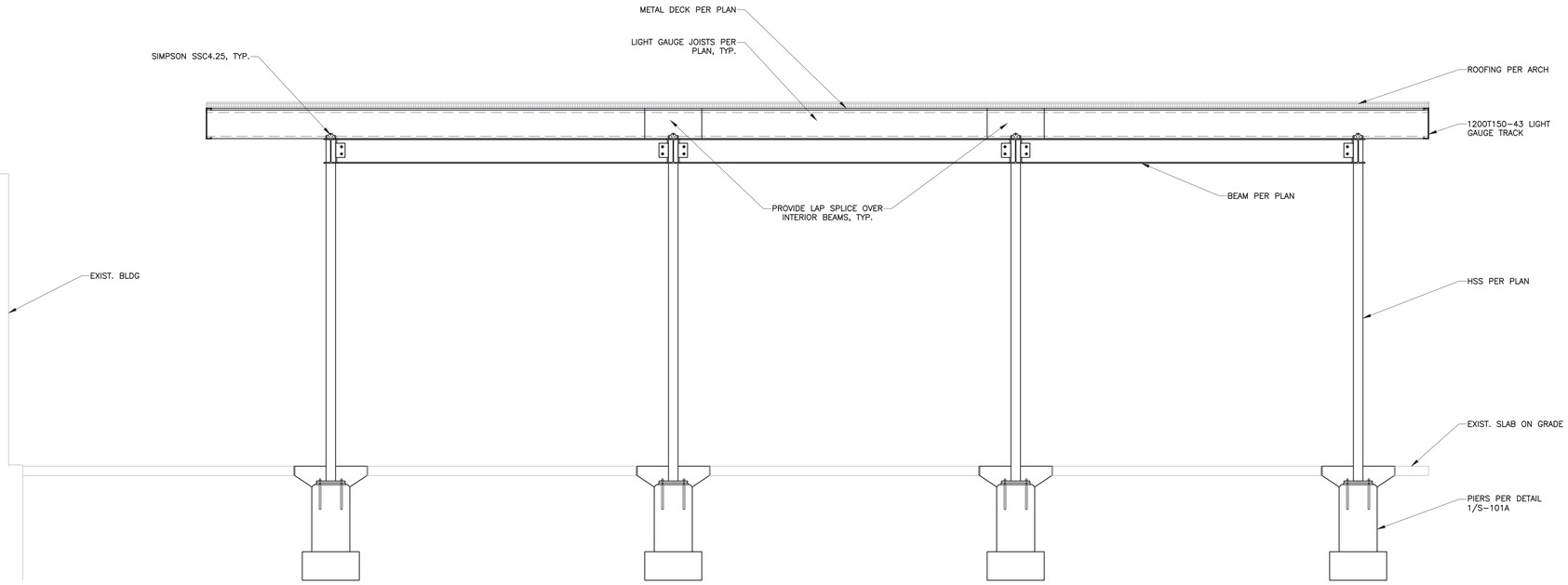
SCALE: AS NOTED

SHEET NAME:
STRUCTURAL PLANS
EXIT CANOPY

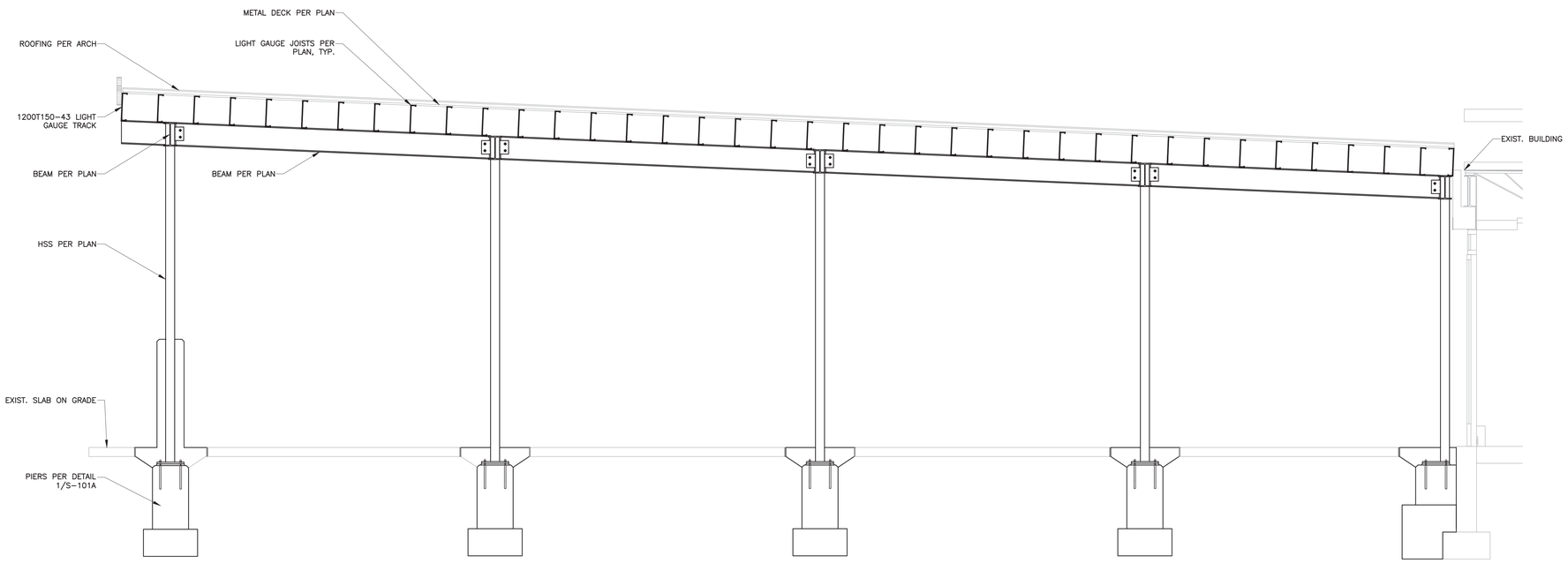
SHEET NUMBER:

BM-S103

DRAWN BY: DRW
CHECKED BY: CHK
File Path:



1 S-301 NORTH CANOPY SECTION
SCALE: 1/2"=1'-0"



2 S-301 NORTH CANOPY SECTION
SCALE: 1/2"=1'-0"

ARCHITECT

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NANUET

NUFSD BOND PROJECT PHASE 5 - BARR MS

- ☐ SED#50-01-08-03-0-002-020 (HIGHVIEW ES)
- ☐ SED#50-01-08-03-7-007-002 (Maintenance)
- ☐ SED#50-01-08-03-7-012-004 (OEC)
- ☐ SED#50-01-08-03-0-001-026 (MILLER ES)
- ■ SED#50-01-08-03-0-004-022 (BARR MS)

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Nanuet, NY 10954

Maintenance Building
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Miller Elementary School
50 Blauvelt Rd Unit1
Nanuet, NY 10954

A MacArthur Barr Middle School
143 Church St
Nanuet, NY 10954

KEY PLAN

REVISIONS

No.	Description	Date

ISSUED: BID SET

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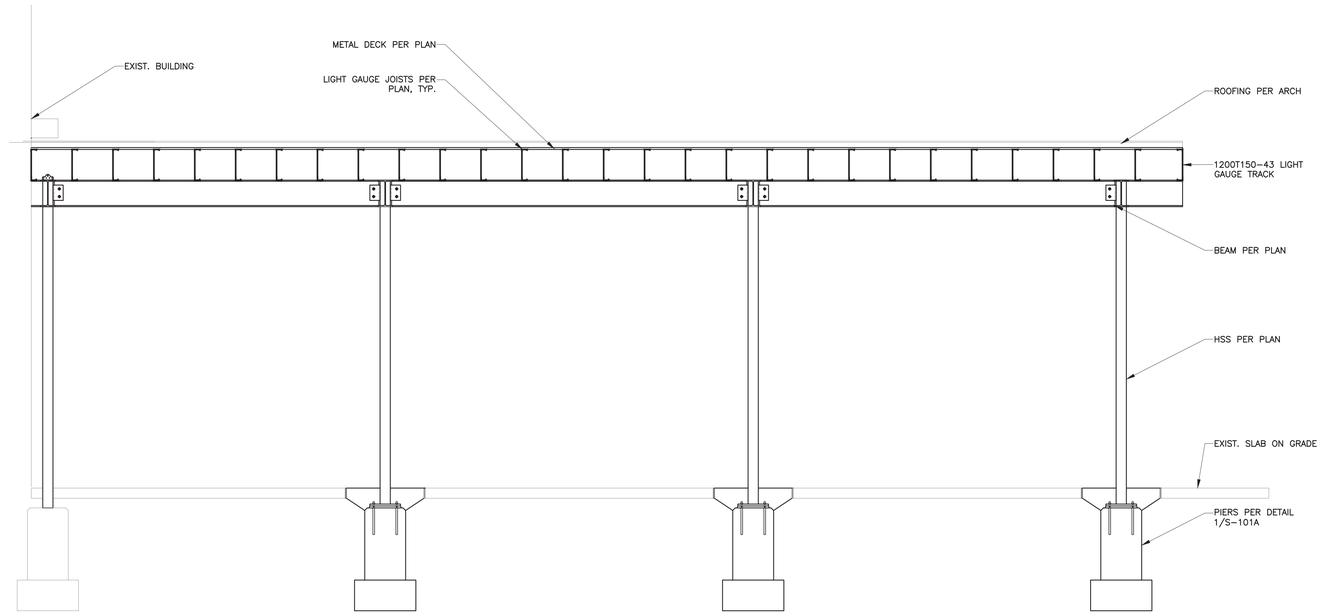
SCALE: AS NOTED

SHEET NAME:
STRUCTURAL PLANS
EXIT CANOPY

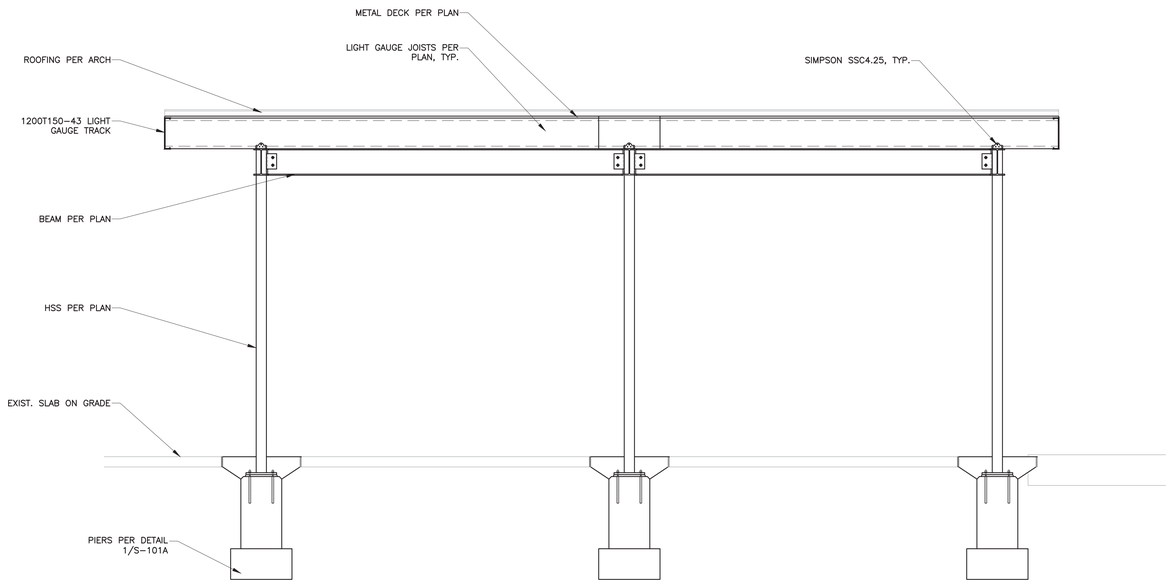
SHEET NUMBER:

BM-S301

DRAWN BY: DRW
CHECKED BY: CHK
File Path:



1 S-302 EAST CANOPY SECTION
SCALE: 1/2"=1'-0"



2 S-302 EAST CANOPY SECTION
SCALE: 1/2"=1'-0"

DRAWN BY: DRW
CHECKED BY: CHK
File Path:

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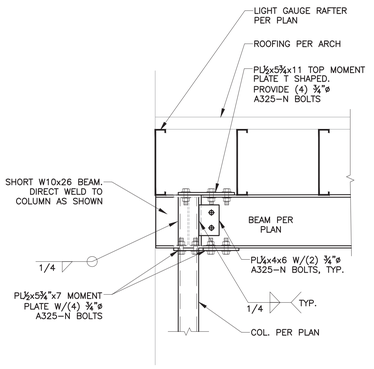
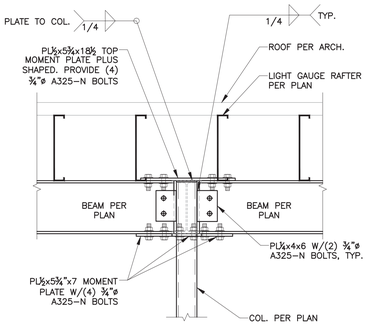
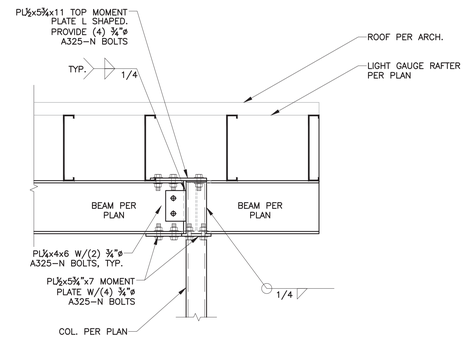


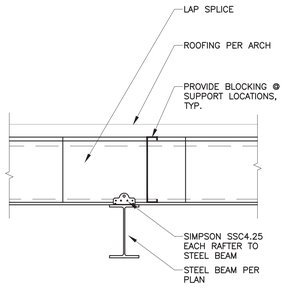
1 S-501 STEEL COLUMN TO BEAM CONNECTION
SCALE: N.T.S.



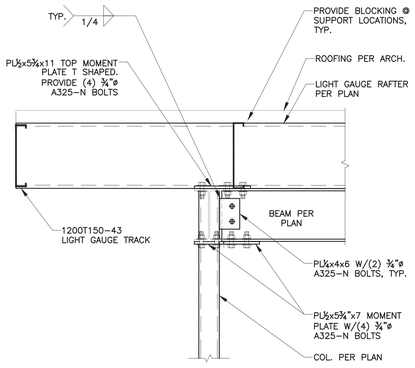
2 S-501 TYP. STEEL CONNECTION DETAIL
SCALE: N.T.S.



3 S-501 TYP. STEEL CONNECTION DETAIL
SCALE: N.T.S.



4 S-501 TYP. STEEL CONNECTION DETAIL
SCALE: N.T.S.



5 S-501 TYP. STEEL CONNECTION DETAIL
SCALE: N.T.S.

DRAWN BY: DRW
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