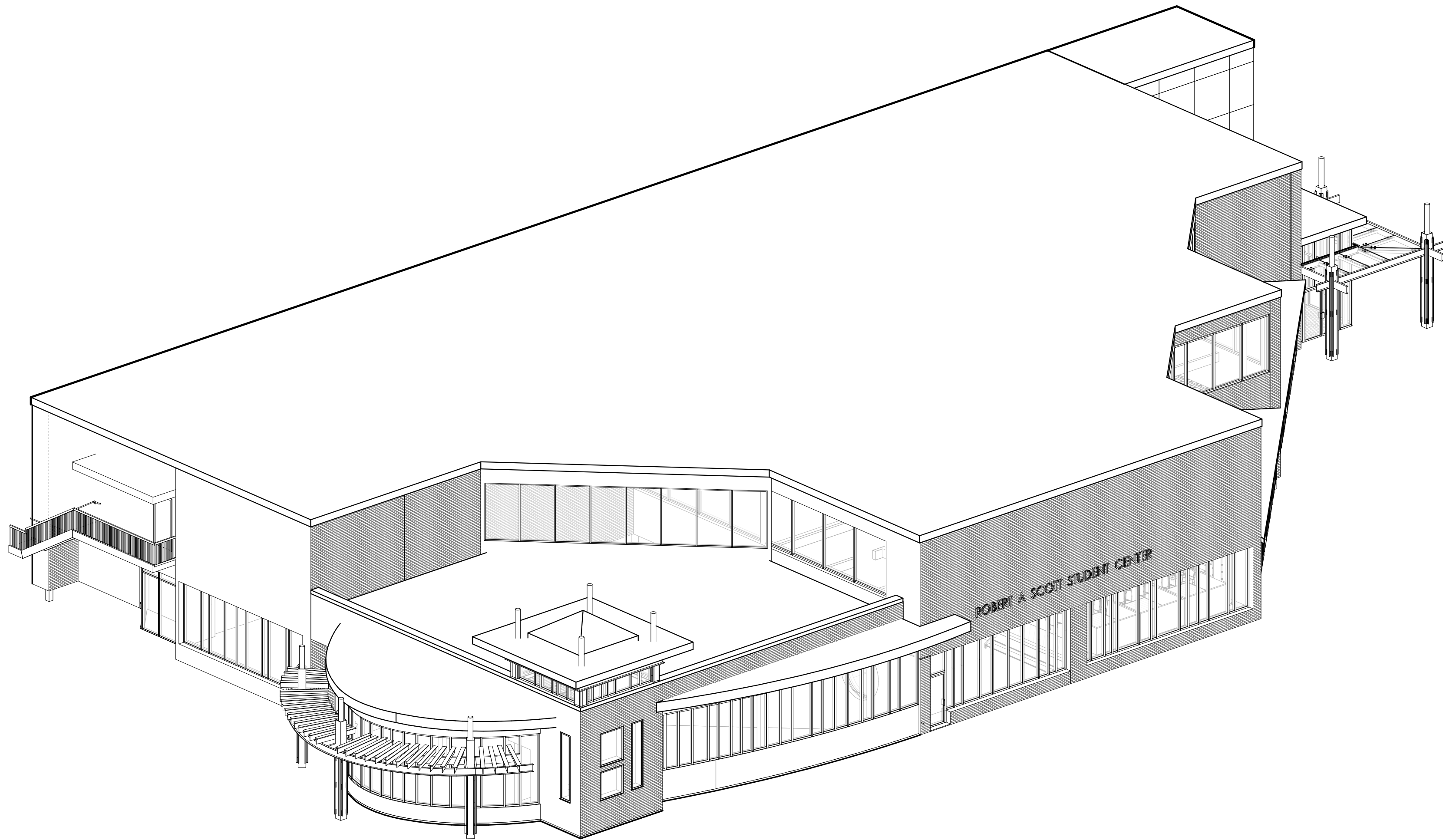




STUDENT CENTER

PHASE 2: ALTERATIONS & ADDITIONS

BID DOCUMENTS

RCNJ No. 2014-37-01C

CONTACT INFORMATION

ARCHITECT:

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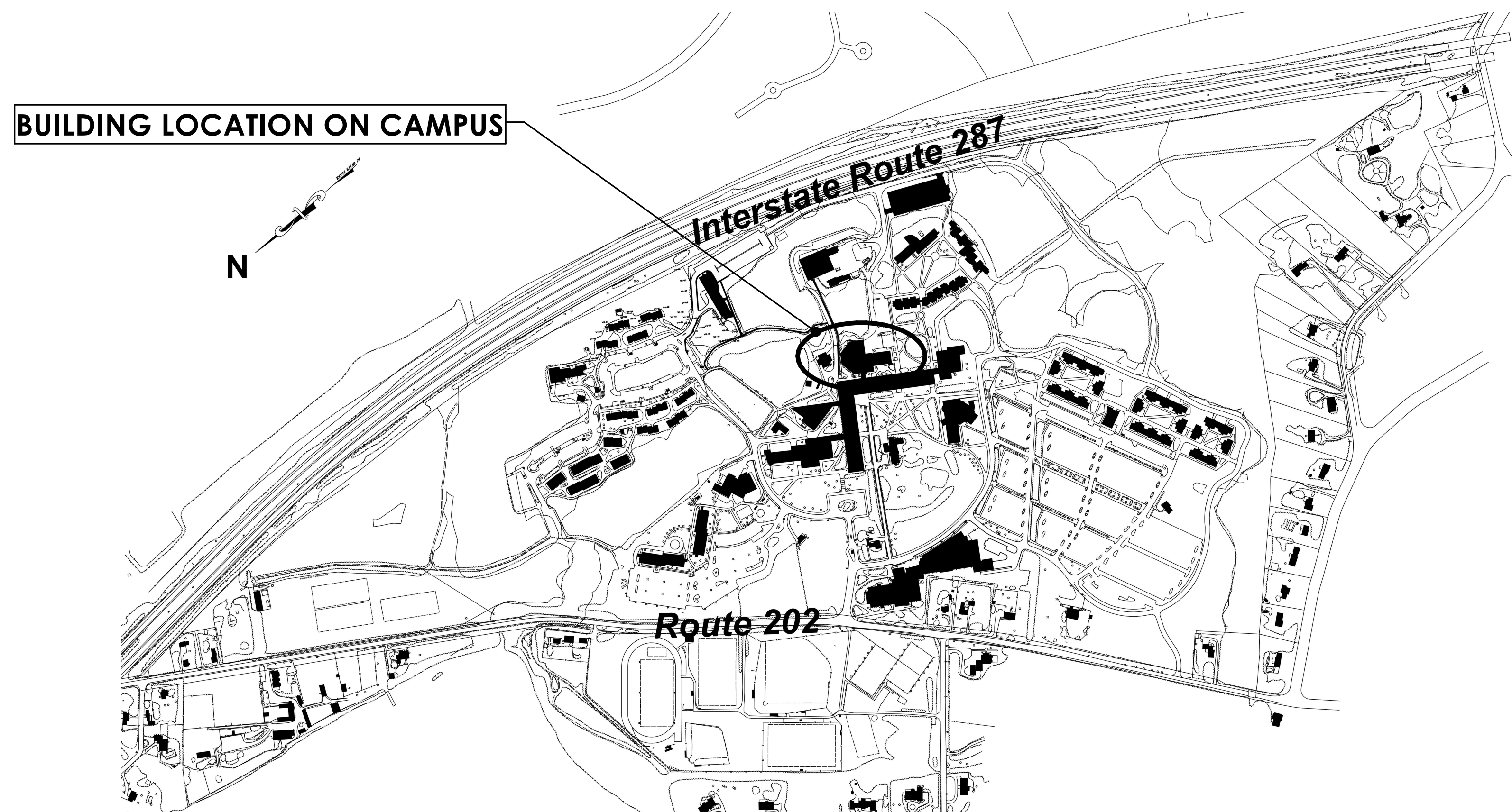
ENGINEER:

 **McFarland Johnson**
Engineering, Planning & Construction Administration

GENERAL NOTES

- ALL WORK MUST MEET THE STANDARDS OF THE 2015 INTERNATIONAL BUILDING CODE- THE STATE OF NEW JERSEY EDITION AND 2015 AMENDMENTS AND THE STATE OF NEW JERSEY DEPARTMENT OF COMMUNITY AFFAIRS REHABILITATION SUBCODE 5:23-6.
- DO NOT SCALE DRAWINGS. DRAWINGS ARE FOR GENERAL PURPOSES ONLY. NO MEASUREMENTS SHALL BE SCALED OFF DRAWINGS. ALL MEASUREMENTS SHALL BE VERIFIED IN FIELD.
- CONNOR ARCHITECTURE ACCEPTS NO RESPONSIBILITY FOR UNAUTHORIZED REPRODUCTION OR UNAUTHORIZED USE OF THIS DOCUMENT.
- DUE TO THE NATURE OF THE WORK THE CONTRACTOR SHALL VERIFY EXISTING DIMENSIONS AND REPORT TO THE ARCHITECT ANY DIMENSIONAL CHANGES. FAILURE TO COMPLY WILL NOT ALLOW FOR ANY CHANGES BY THE CONTRACTOR.
- INFORMATION REGARDING THE PROJECT CONDITIONS HAVE BEEN TAKEN FROM FIELD OBSERVATIONS. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS BEFORE COMPLETION OF BID STAGE, INCLUDING ABOVE CEILING, BELOW SLAB, WALL COMPOSITION AND UTILITIES, AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN PLANS, SPECS, AND EXISTING CONDITIONS.
- ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE UNLESS SPECIFIED OTHERWISE FOR A LONGER PERIOD OF TIME ON A CERTAIN ITEM.
- SEE SPECIFICATIONS AND DRAWINGS FOR OTHER OWNER SUPPLIED/ CONTRACTOR INSTALLED ITEMS.
- ALL MATERIALS USED FOR THE CONSTRUCTION OF THIS PROJECT, WHETHER BUILDING MATERIALS OR APPURTENANCES, SHALL BE NON-ASBESTOS CONTAINING MATERIALS.
- ALL SHOP DRAWINGS (MILLWORK, STEEL, SIGNAGE, ETC.) TO BE SUBMITTED TO ARCHITECT FOR APPROVAL. ALL SAMPLES (FLOORING, PAINT, STAINLESS STEEL, WALLCOVERING, LAMINATE, & SOLID SURFACE
- CONTRACTOR MUST COORDINATE WITH OWNER ON ALL ACTIVITIES, INCLUDING UTILITIES SHUT DOWN OR MODIFIED. WORK MUST NOT INTERFERE WITH EXISTING SMOKE DETECTORS, AND ALARMS.
- RAMAPO COLLEGE AND THE ARCHITECT SHALL OBTAIN ANY BUILDING PERMIT REQUIRED. RAMAPO COLLEGE TO PAY FEES ASSOCIATED WITH ALL REVIEWS AND PERMITS.

AREA LOCATION PLAN



DRAWING INDEX

GENERAL

COVER COVER SHEET

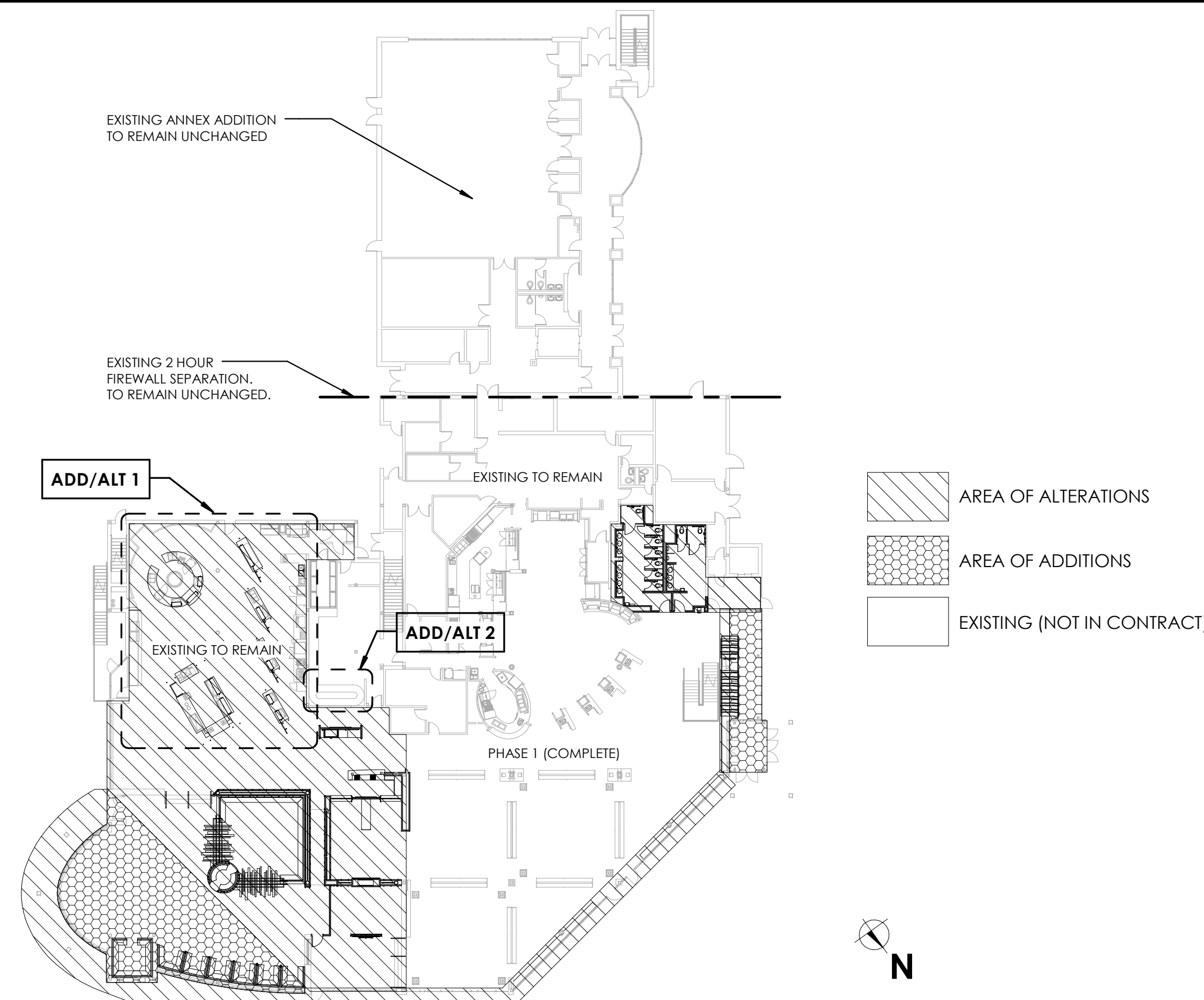
STRUCTURAL DRAWINGS

S-100 FOUNDATION PLAN
S-101 ROOF FRAMING PLAN
S-300 SECTIONS
S-301 SECTIONS
S-302 SECTIONS
S-400 PIER AND BASE PLATES
S-500 STANDARD NOTES
S-501 STANDARD DETAILS

ARCHITECTURAL DRAWINGS

G-001 CODE COMPLIANCE PLAN
A-001 WALL & DOOR INFORMATION
A-002 WINDOW INFORMATION
AD-100 DEMOLITION PLAN
ID-100 INTERIOR DEMOLITION PLAN
ID-200 DEMOLITION CEILING PLAN
A-100 FLOOR PLAN - NOTED
A-101 FLOOR PLAN - DIMENSION
A-150 PLAN DETAILS
A-170 ROOF PLAN
A-171 ROOF DETAILS
A-200 EXTERIOR ELEVATIONS
A-201 BUILDING SECTIONS
A-300 WALL SECTIONS
A-301 WALL SECTIONS
A-302 WALL SECTIONS
A-500 3 DIMENSIONAL EXTERIOR VIEWS

PROJECT KEY PLAN



ELECTRICAL DRAWINGS

E-000 ELECTRICAL LEGEND AND GENERAL NOTES
E-001 ELECTRICAL - LEGEND AND GENERAL NOTES
ED-100 ELECTRICAL DEMOLITION - FIRST FLOOR
ED-101 LIGHTING DEMOLITION - FIRST FLOOR
ED-110 ELECTRICAL DEMOLITION - TOILET ROOMS
ED-111 ELECTRICAL DEMOLITION - SERVRY - ALTERNATE #1
E-050 ELECTRICAL SITE PLAN
E-100 ELECTRICAL PLAN
E-110 ELECTRICAL ALTERATIONS - FIRST FLOOR
E-111 ELECTRICAL ALTERATIONS - SECOND FLOOR
E-112 ELECTRICAL/LIGHTING ALTERATIONS - TOILET ROOMS
E-113 ELECTRICAL ALTERATIONS - SERVRY - ALTERNATE #1
E-200 LIGHTING - FIRST FLOOR
E-210 LIGHTING ALTERATIONS - FIRST FLOOR
E-211 LIGHTING ALTERATIONS - SERVRY - ALTERNATE #1
E-310 ELECTRICAL DETAILS & SCHEDULES

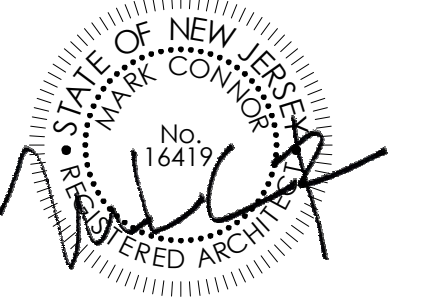
PLUMBING DRAWINGS

P-000 PLUMBING - CODES AND GENERAL NOTES
P-001 PLUMBING - CODES, GENERAL NOTES, AND SCHEDULES
PD-100 PLUMBING DEMOLITION
PD-110 PLUMBING DEMOLITION - FIRST FLOOR
PD-111 PLUMBING DEMOLITION - TOILET ROOMS
PD-112 PLUMBING DEMOLITION - SERVRY - ALTERNATE #1
P-100 PLUMBING UNDERGROUND PLAN
P-101 PLUMBING GROUND FLOOR PLAN
P-102 PLUMBING ROOF PLAN
P-110 PLUMBING DEMOLITION - FIRST FLOOR
P-111 PLUMBING DEMOLITION - TOILET ROOMS
P-112 PLUMBING DEMOLITION - SERVRY - ALTERNATE #1

FIRE PROTECTION DRAWINGS

FP-001 CODES AND GENERAL NOTES
FPD-100 FIRE PROTECTION DEMOLITION - FIRST FLOOR
FPD-110 FIRE PROTECTION DEMOLITION - PHASE 2 INTERIOR
FPD-111 FIRE PROTECTION DEMOLITION - SERVRY - ALTERNATE #1
FP-110 FIRE PROTECTION ALTERATIONS - FIRST FLOOR
FP-111 FIRE PROTECTION ALTERATIONS - SERVRY - ALTERNATE #1

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REVISIONS

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CHECKED BY: AGK/JNC

COVER SHEET

SCOTT STUDENT CENTER
RESIDENTIAL DINING
505 RAMAPO VALLEY RD.
MAHWAH, NJ 07430

RAMAPO COLLEGE
OF NEW JERSEY

RCNJ No. 2014-37-01C PHASE 2: ALTERATIONS & ADDITIONS



ISSUED:
03.24.2016

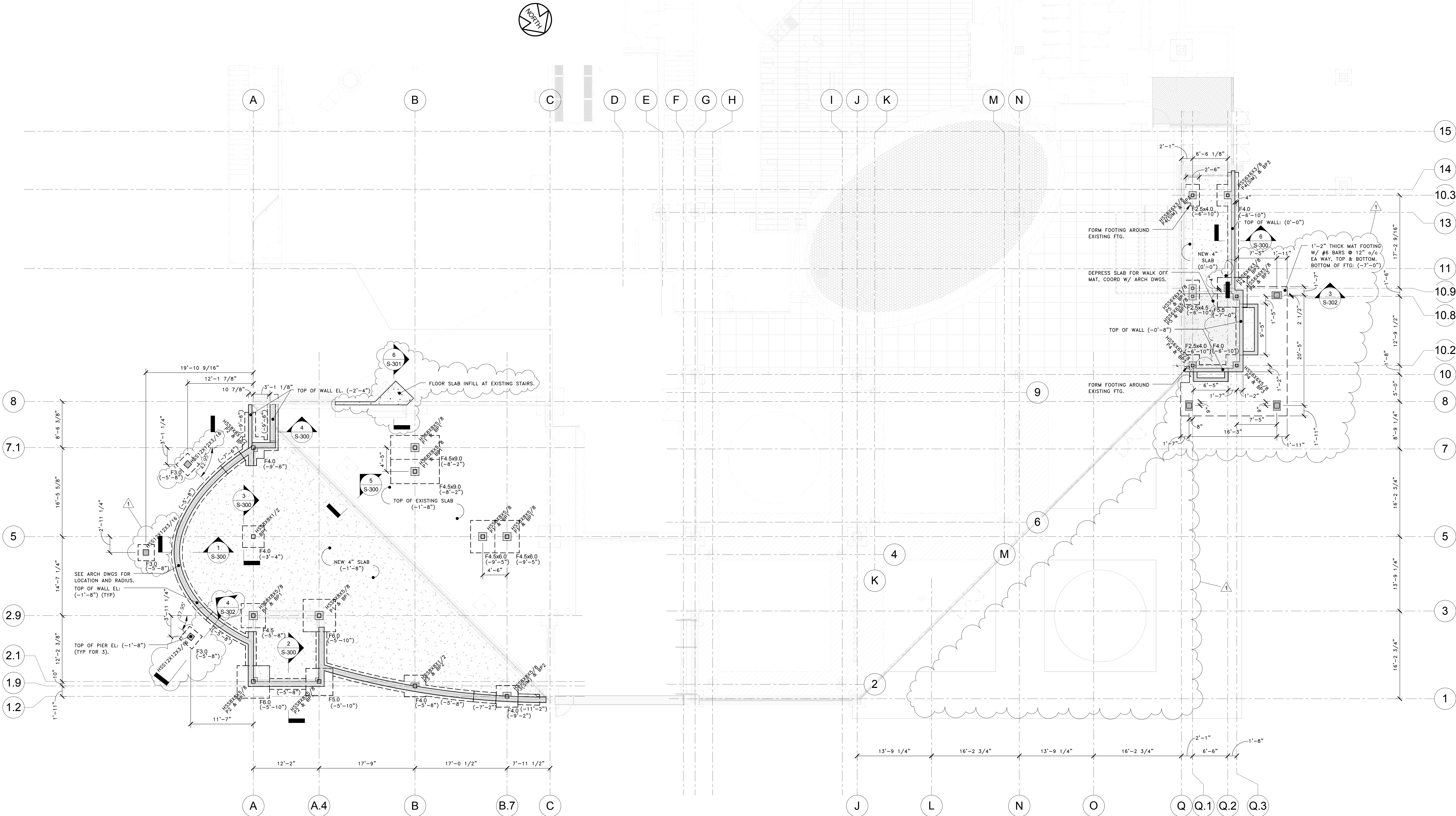
DESCRIPTION:
BID DOCUMENTS

SHEET:

COVER

FOUNDATION SCHEDULE				
TYPE	LENGTH	WIDTH	THICKNESS	BOTTOM REINFORCEMENT
F2.5x4.0	4'-0"	2'-6"	1'-0"	#5 BARS @ 8" o/c EA WAY
F2.5x4.5	4'-6"	2'-6"	1'-0"	#5 BARS @ 8" o/c EA WAY
F3.0	3'-0"	3'-0"	1'-0"	(3) #5 BARS EA WAY
F4.0	4'-0"	4'-0"	1'-0"	(6) #5 BARS EA WAY
F4.5	4'-6"	4'-6"	1'-0"	(6) #5 BARS EA WAY
F5.0	5'-0"	5'-0"	1'-2"	(6) #5 BARS EA WAY
F5.5	5'-6"	5'-6"	1'-2"	(6) #5 BARS EA WAY
F6.0	6'-0"	6'-0"	1'-2"	(6) #5 BARS EA WAY
F4.5x6.0	6'-0"	4'-6"	1'-4"	#6 BARS @ 12" o/c EA WAY
F4.5x9.0	9'-0"	4'-6"	1'-6"	#6 BARS @ 12" o/c EAY WAY

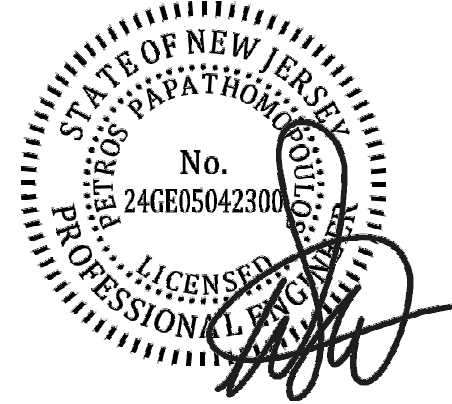
FOOTINGS SHALL HAVE A TOP MAT OF REINFORCING EQUAL TO BOTTOM MAT BARS MINUS ONE BAR SIZE AT ALL FOOTINGS.



SECTION

- ELEVATIONS REFERENCED TO EXISTING BUILDING TOP OF SLAB OF 311'-0"
- TOP OF SLAB EL. 0'-0" (REFERENCE ELEVATION) UNLESS NOTED (+) OR (-) ON PLAN.
- BOTTOM OF FOOTING ELEVATIONS INDICATED THUS (-).
- SLAB ON GRADE SHALL BE 4" SLAB WITH #4 BARS @ 12" o/c EA WAY, TOP.
- PROVIDE ASTM E-1745 CLASS A VAPOR BARRIER UNDERNEATH SLAB ON GRADE.

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REVISIONS

DRAWN BY: AAL
CHECKED BY: KEC

FOUNDATION PLAN

RCNJ No. 2014-37-01C
PHASE 2: ALTERATIONS &
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505 RAMAPO VALLEY RD.
MAHWAH, NJ 07430
17565.00

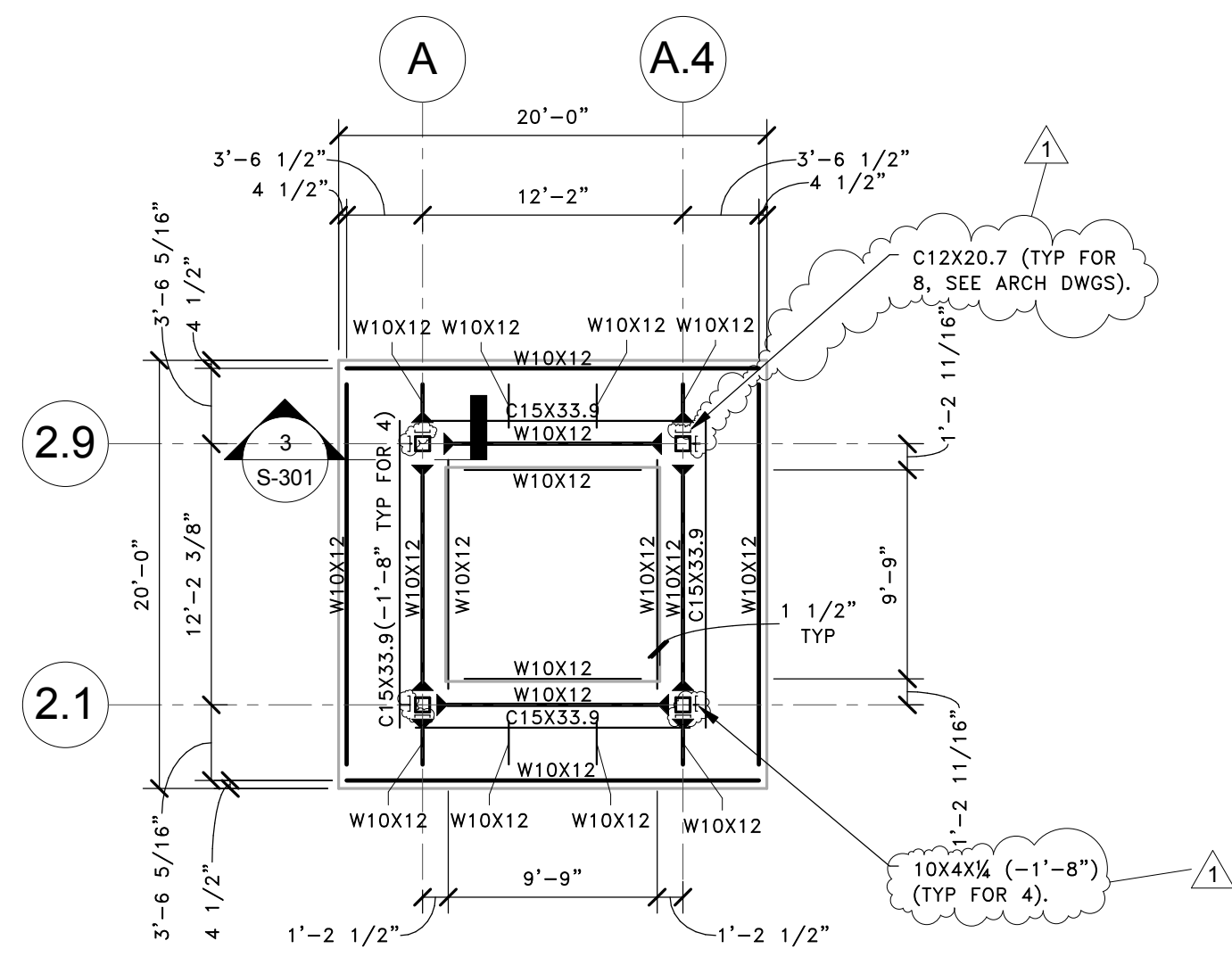


ISSUED:
3.24.16

DESCRIPTION:
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SHEET:

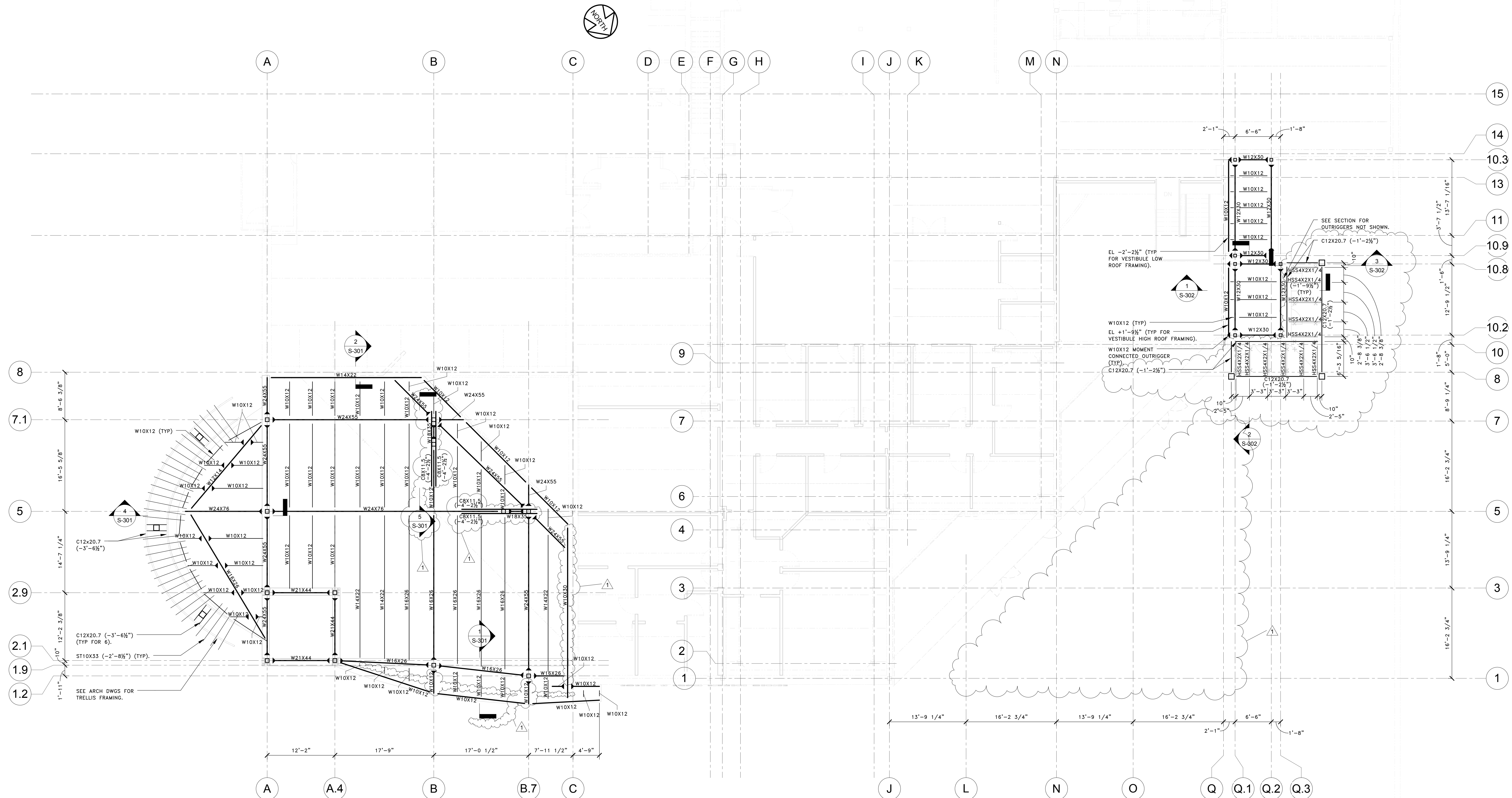
S-100



TOWER FRAMING PLAN

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

1. TOP OF STEEL SHALL BE 21'-6"
2. TOWER DECK SHALL BE 1/2", 20 GAUGE, TYPE B PAINTED ROOF DECK.

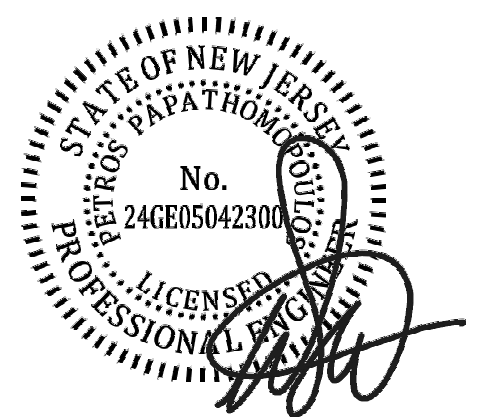


ROOF FRAMING PLAN

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

1. ROOF DECK SHALL BE 1/2", 20 GAUGE TYPE B20 PAINTED STEEL DECK.
2. TOP OF ROOF STEEL SHALL BE 12'-2 1/2" (REFERENCE ELEVATION) UNLESS NOTED (+) OR (-).
3. ALL CONNECTIONS SHOWN THUS (●) ON PLAN SHALL BE FULL MOMENT CONNECTIONS DEVELOPING AT LEAST 90% OF THE CAPACITY OF THE BEAM UNLESS NOTED OTHERWISE. ALTERNATE METHODS OF CONNECTION WILL BE CONSIDERED INCLUDING THROUGH PLATES. HOWEVER, CONNECTION TO THE FACE OF THE COLUMN ONLY WILL NOT BE ACCEPTED. ALL BEAM TO COLUMN CONNECTIONS SHALL BE DESIGNED AND STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NEW JERSEY. SUBMIT FULL CALCULATIONS AND SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION AND CONSTRUCTION.

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REVISIONS

DRAWN BY: AAL
CHECKED BY: KEC

ROOF FRAMING PLAN

RCNJ No. 2014-37-01C
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505 RAMAPO VALLEY RD.
MAHWAH, NJ 07430
17565.00

RAMAPO COLLEGE
OF NEW JERSEY



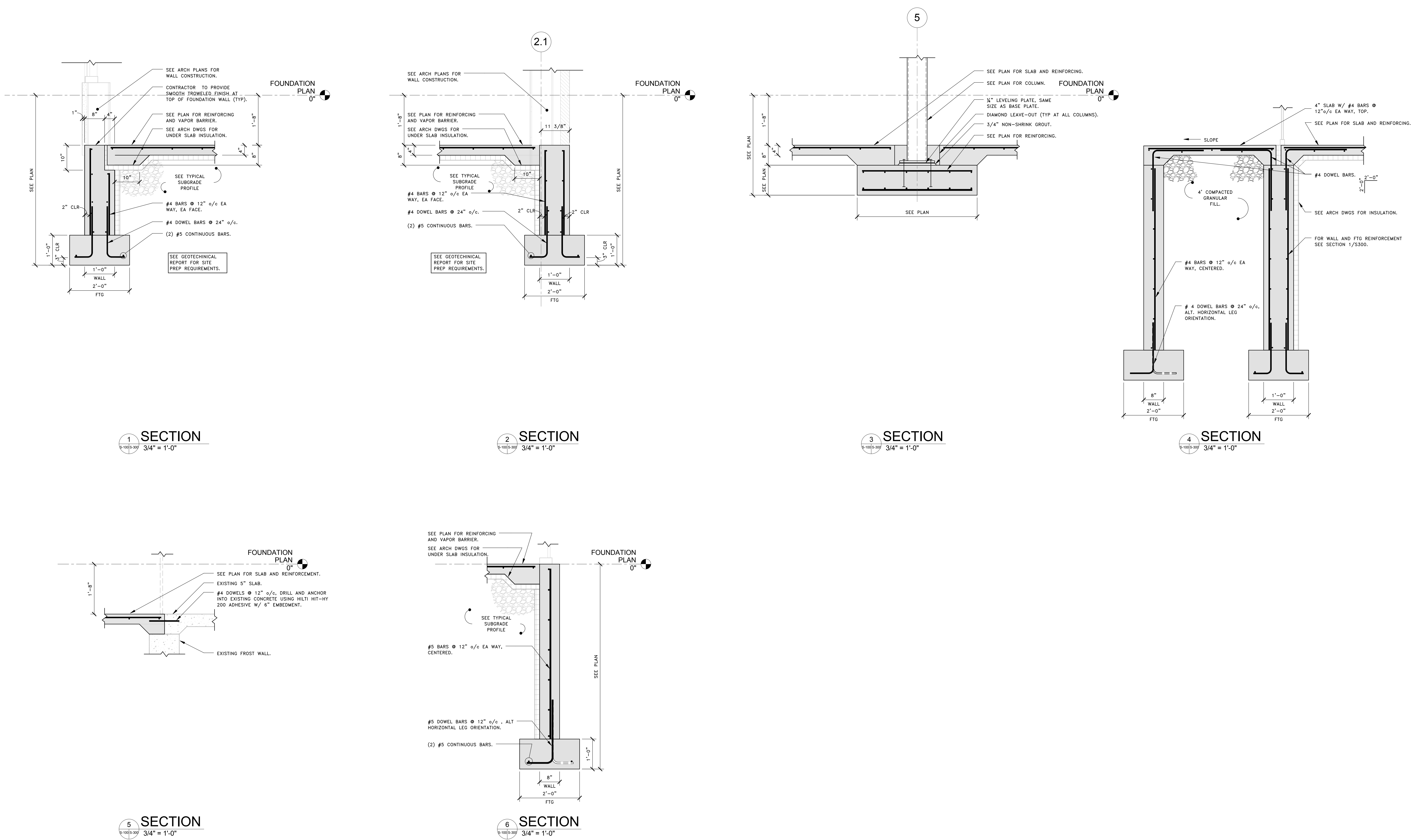
ISSUED:
3.24.16

DESCRIPTION:
BID DOCUMENTS

SHEET:

S-101

3/23/2016 5:56:32 PM



SEAL:

STATE OF NEW JERSEY

PROFESSIONAL ENGINEER

No. 24GE05042300

CONNOR ARCHITECTURE

CONNOR ARCHITECTURE

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REVISIONS

DRAWN BY: AAL

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SECTIONS

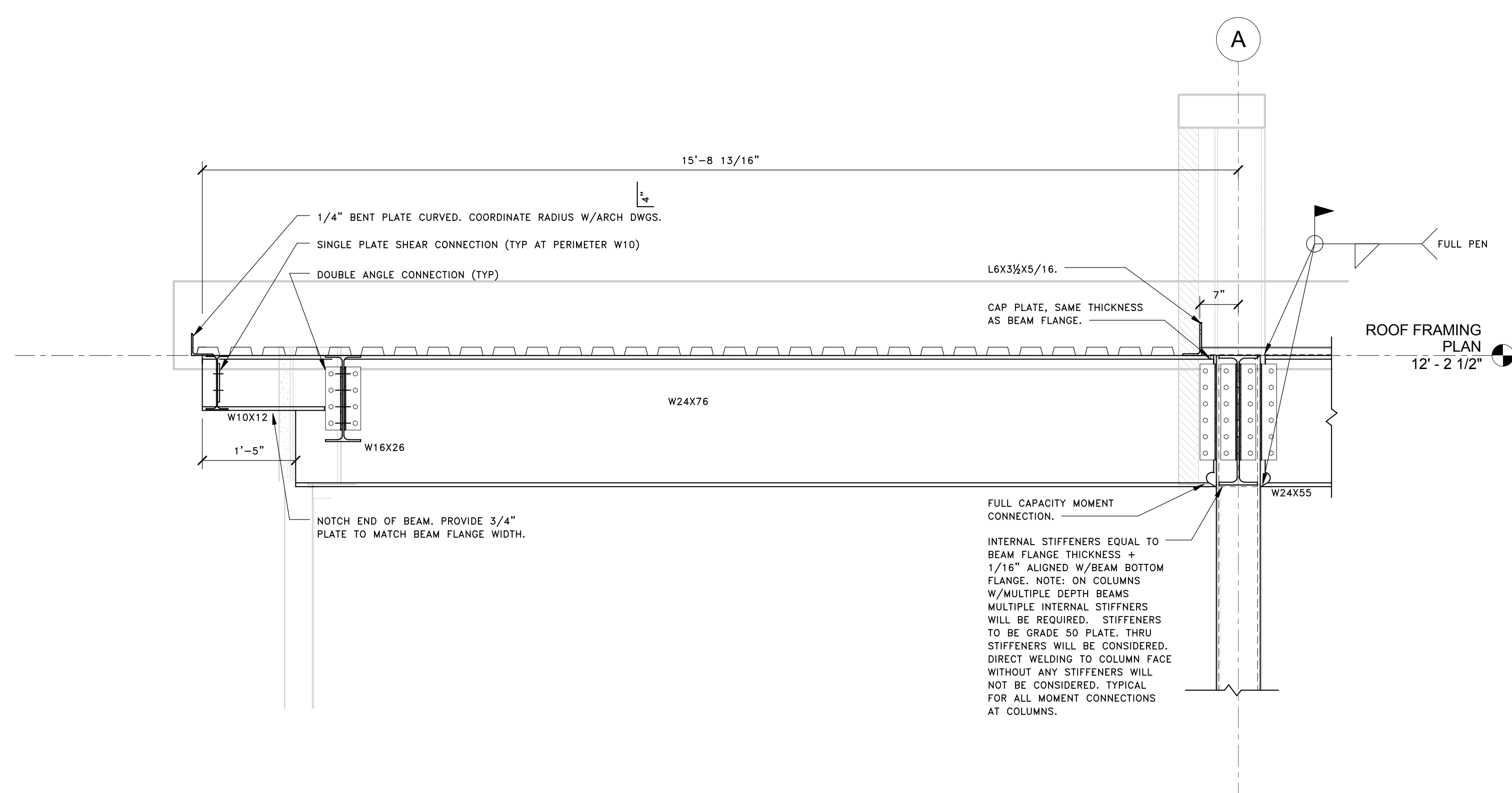
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PHASE 2: ALTERATIONS & ADDITION
505 RAMAPO VALLEY RD.
MAHWAH, NJ 07430
17565.00

RAMAPO COLLEGE OF NEW JERSEY

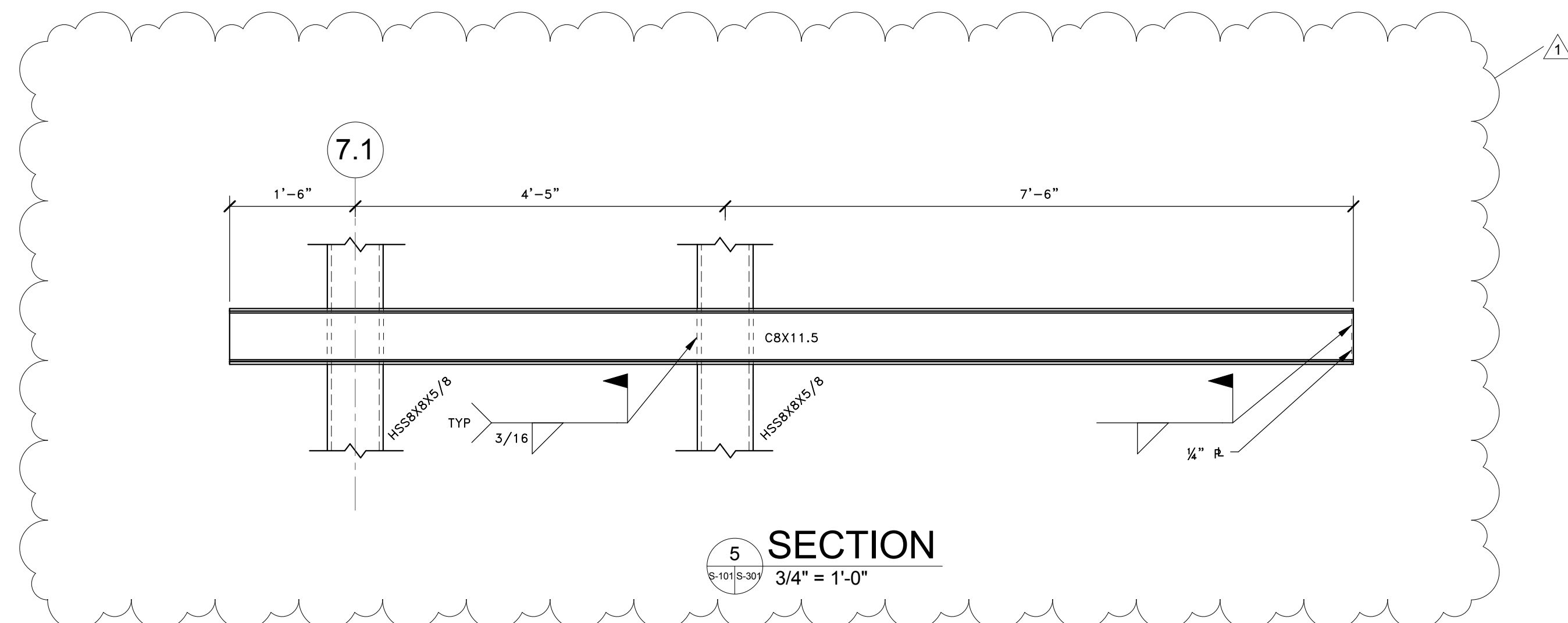
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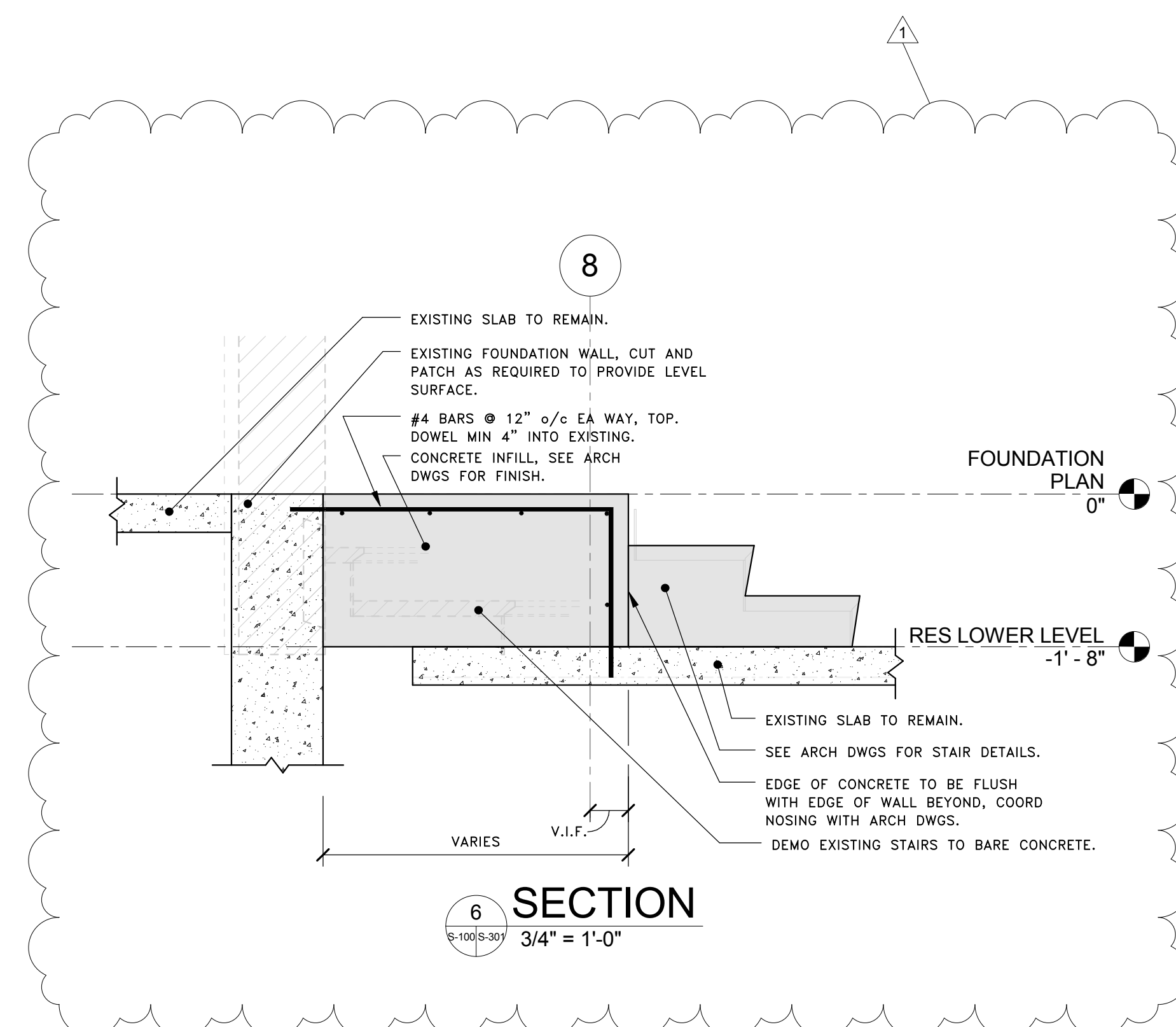
SHEET: S-300



 SECTION
3/4" = 1'-0"

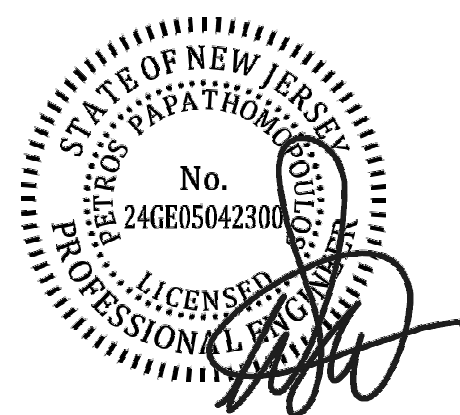


 **SECTION**
3/4" = 1'-0"



SECTION

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REVISIONS

DRAWN BY: AAL
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SECTIONS

**RAMAPO COLLEGE
OF NEW JERSEY**

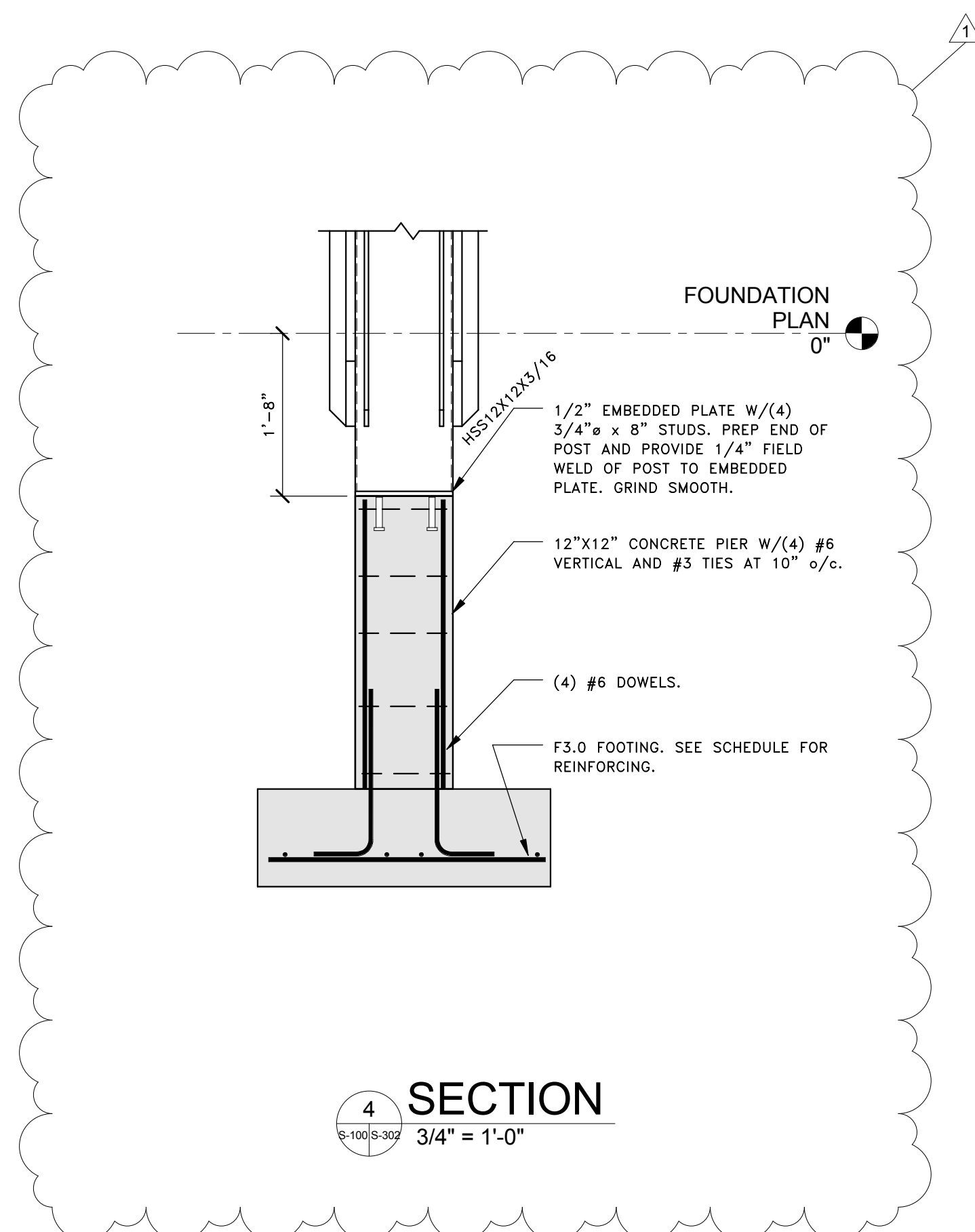
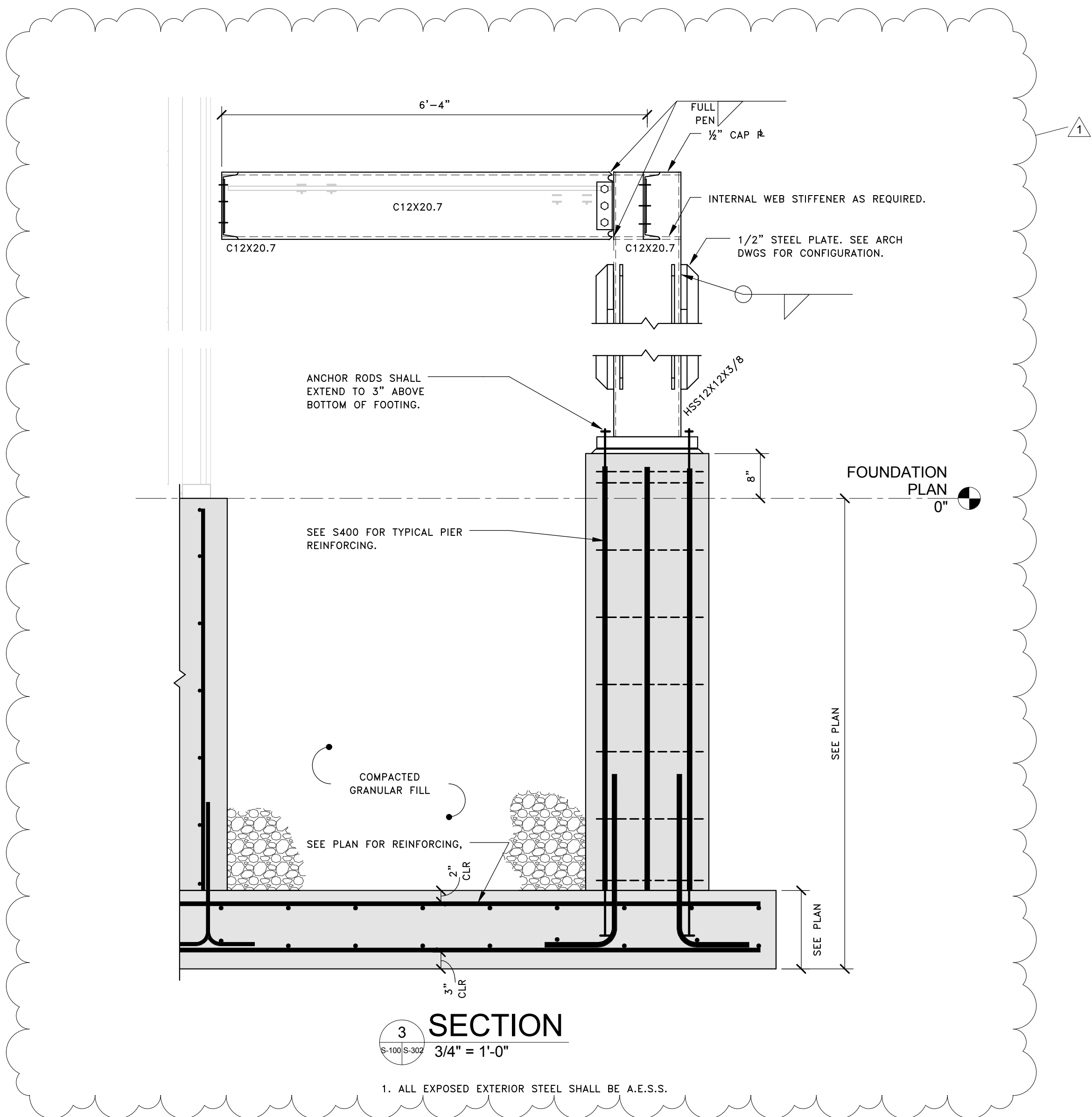
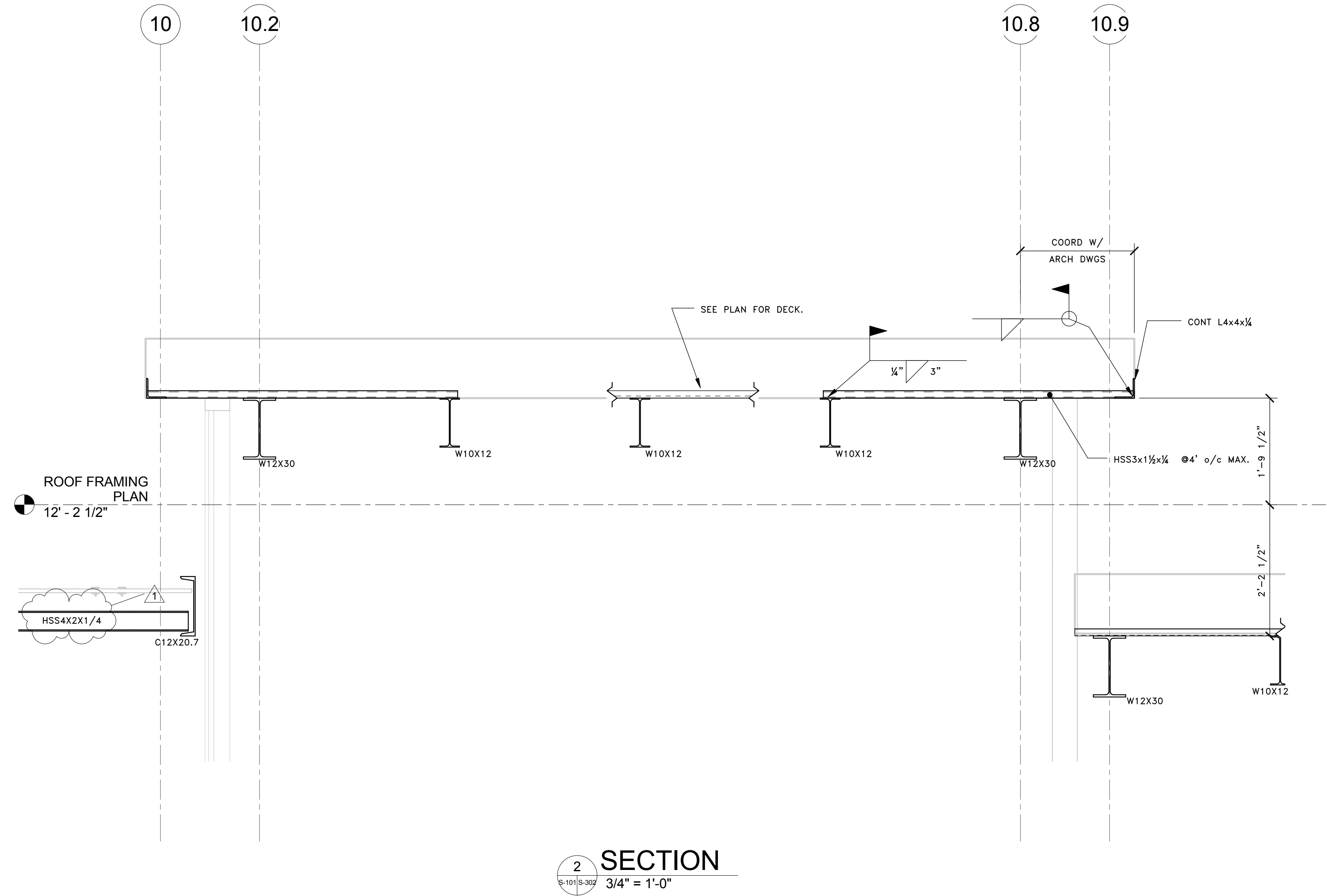
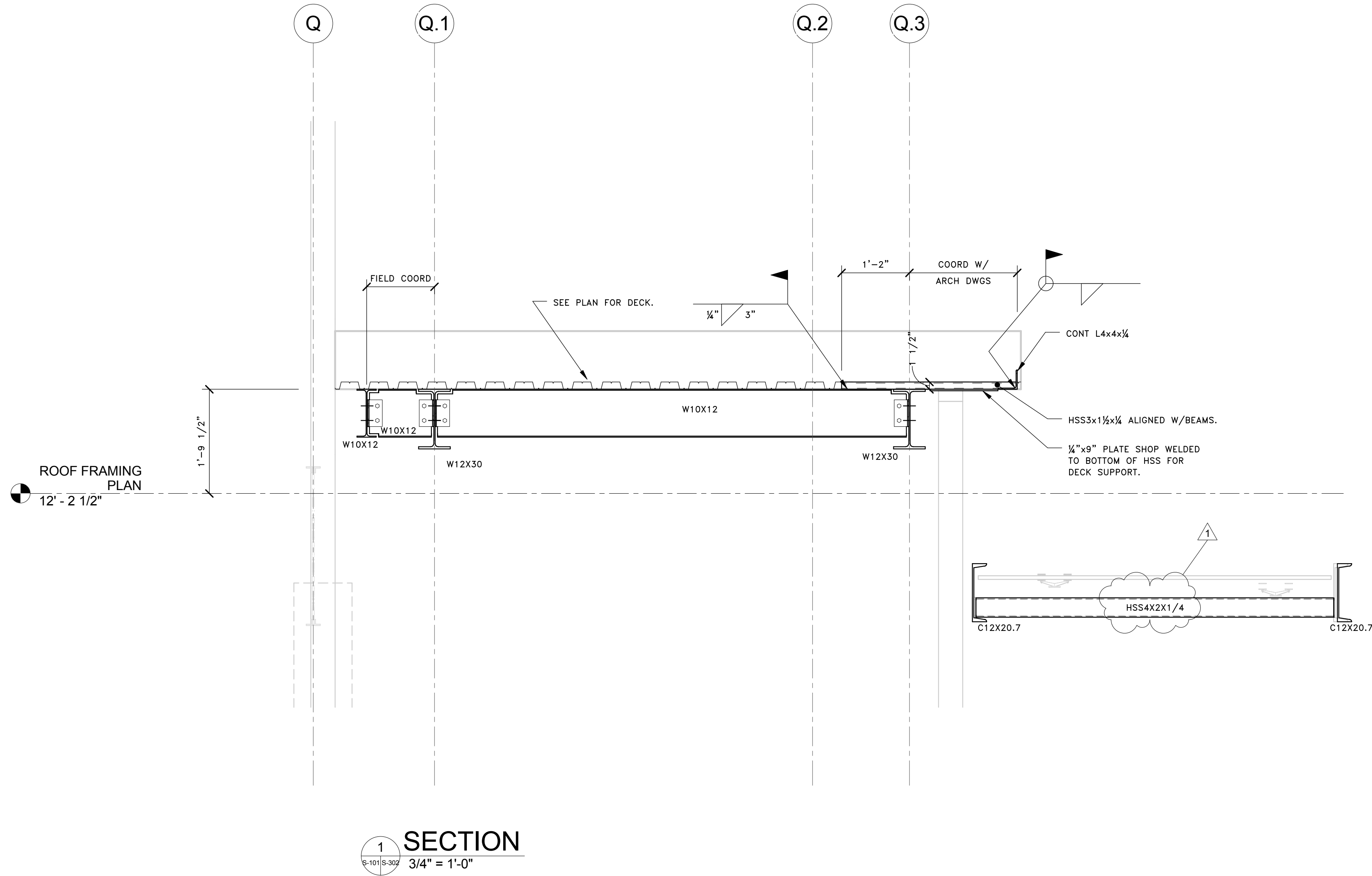


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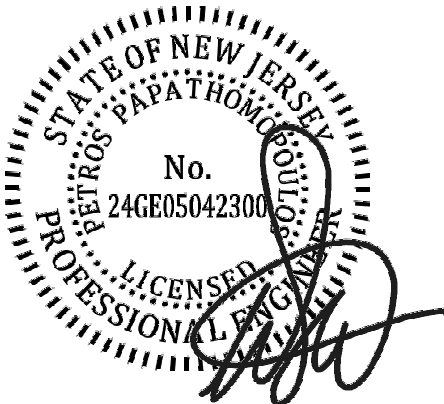
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BID DOCUMENTS

SHEET:

S-301



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REVISIONS

DRAWN BY: AAL
CHECKED BY: KEC

SECTIONS

RCNJ No. 2014-37-01C
PHASE 2: ALTERATIONS &
ADDITION
505 RAMAPO VALLEY RD.
MAHWAH, NJ 07430
17565.00

**RAMAPO COLLEGE
OF NEW JERSEY**

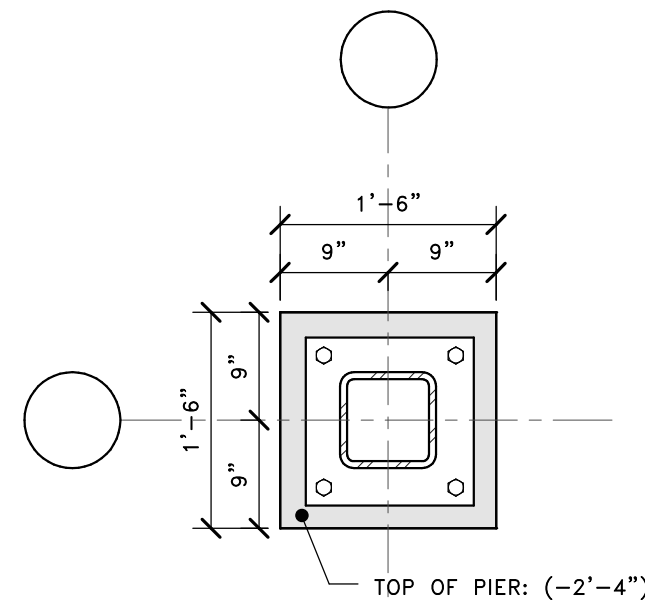


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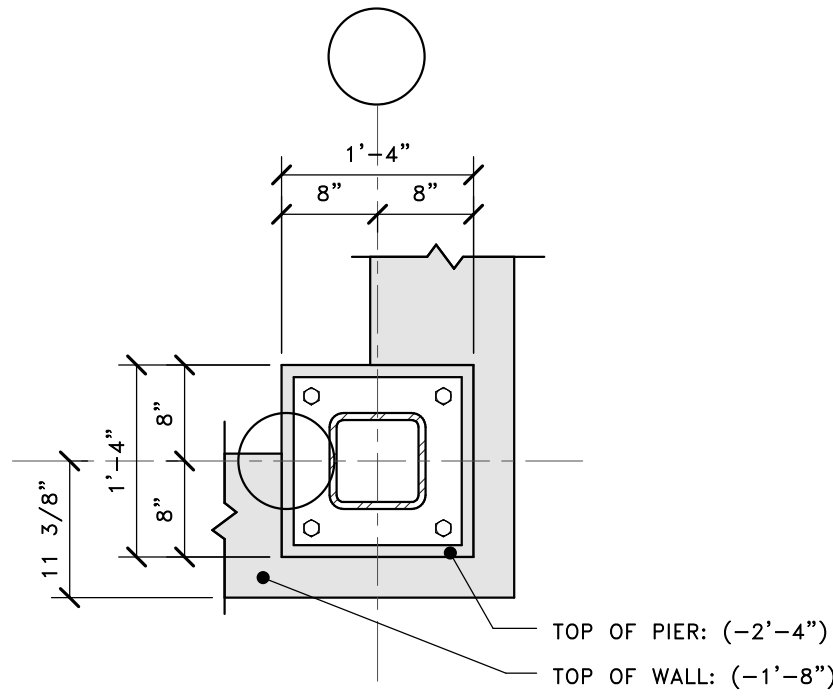
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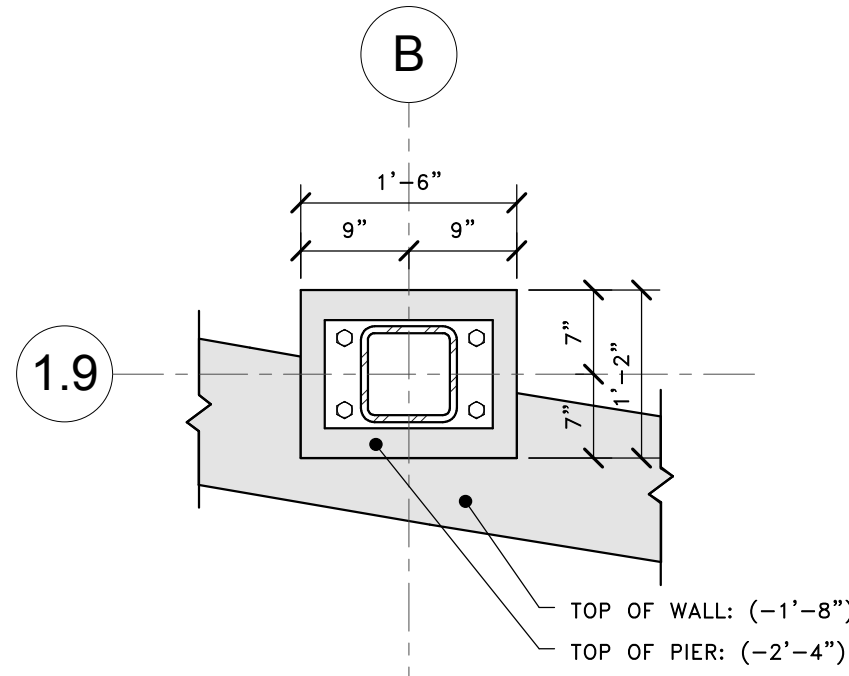
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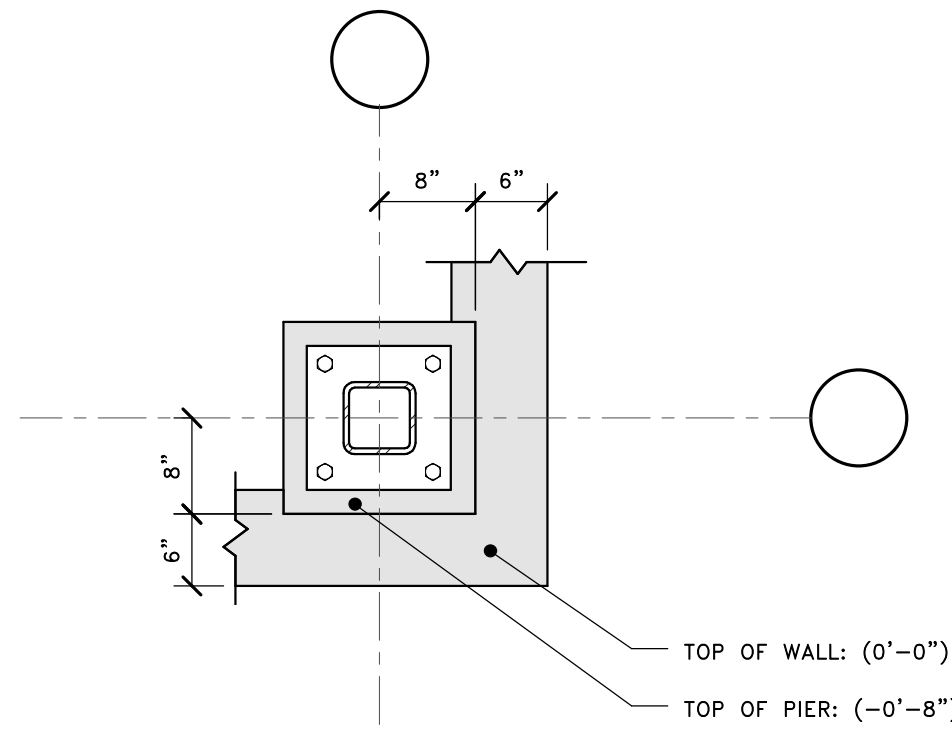
P1
SCALE: 3/4" = 1'-0"



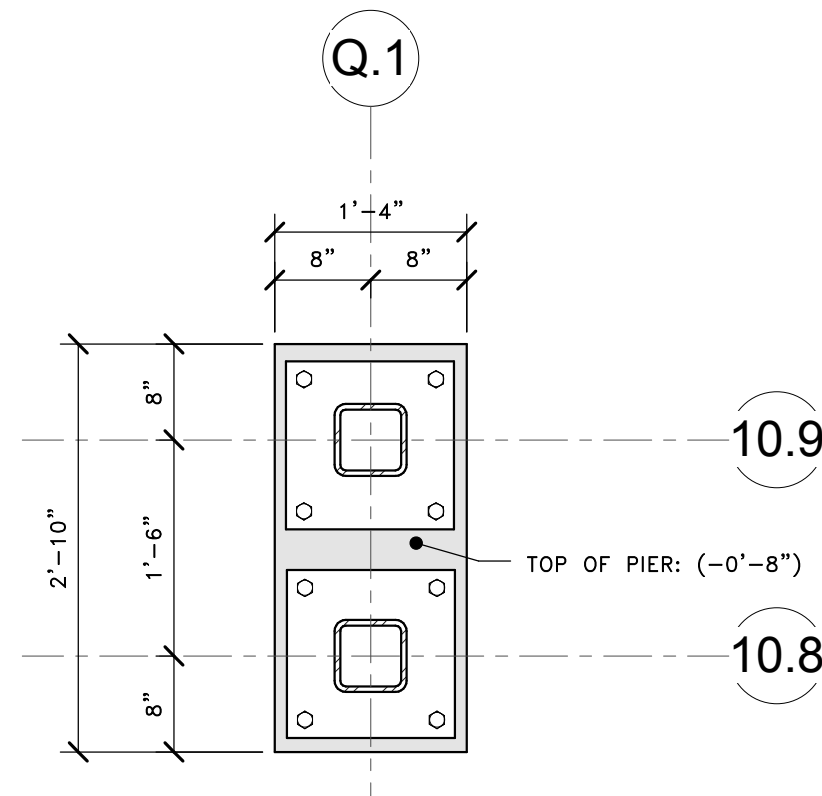
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SCALE: 3/4" = 1'-0"



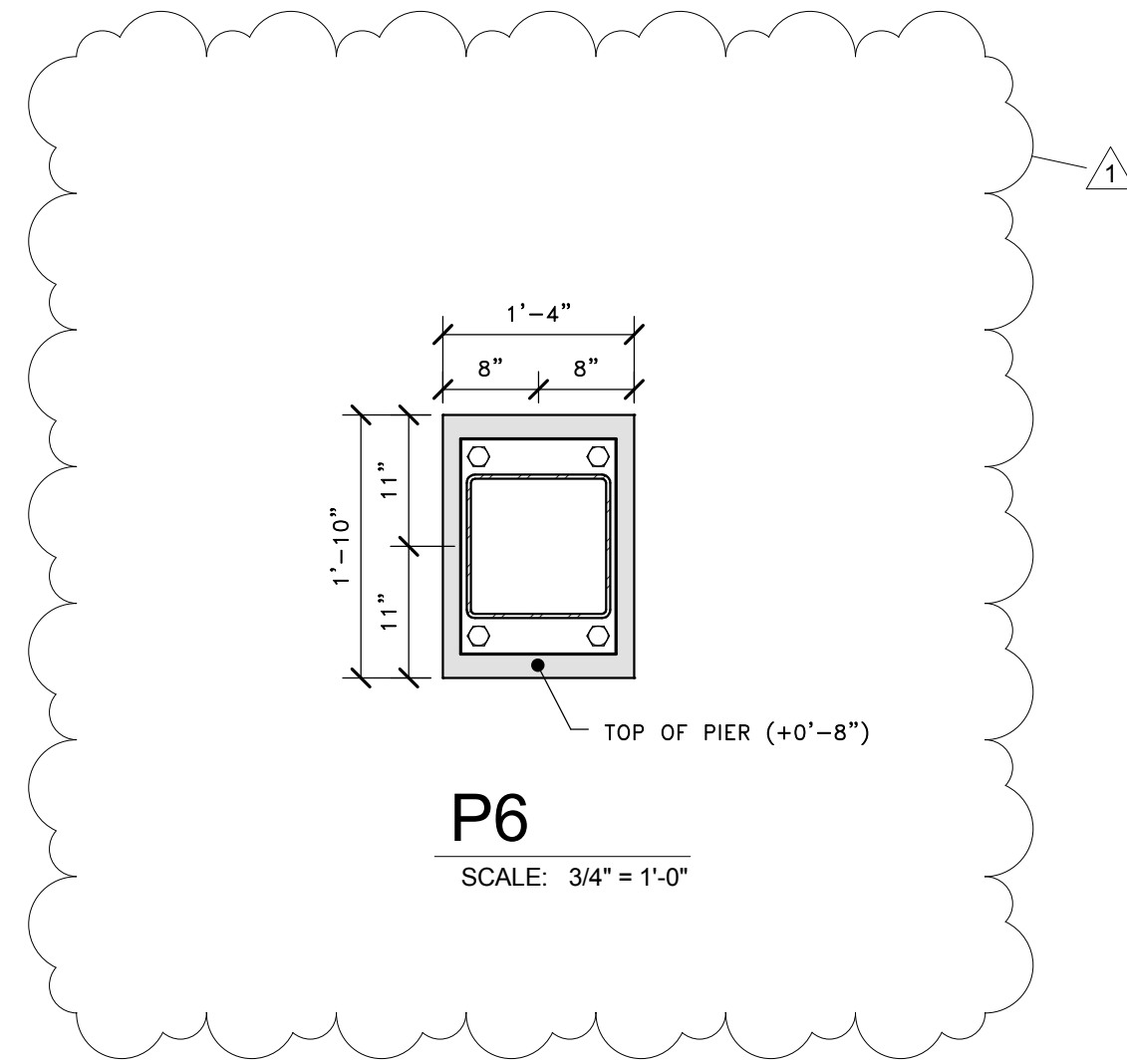
P3
SCALE: 3/4" = 1'-0"



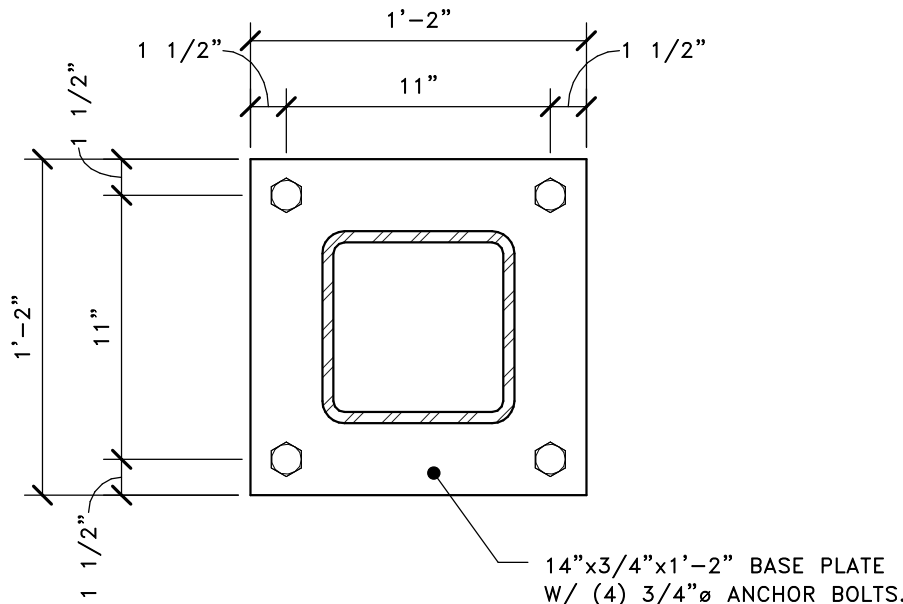
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SCALE: 3/4" = 1'-0"



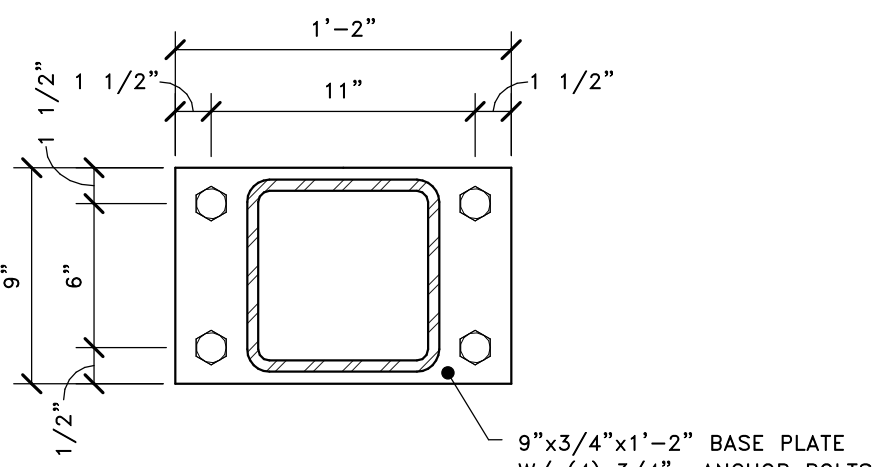
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SCALE: 3/4" = 1'-0"



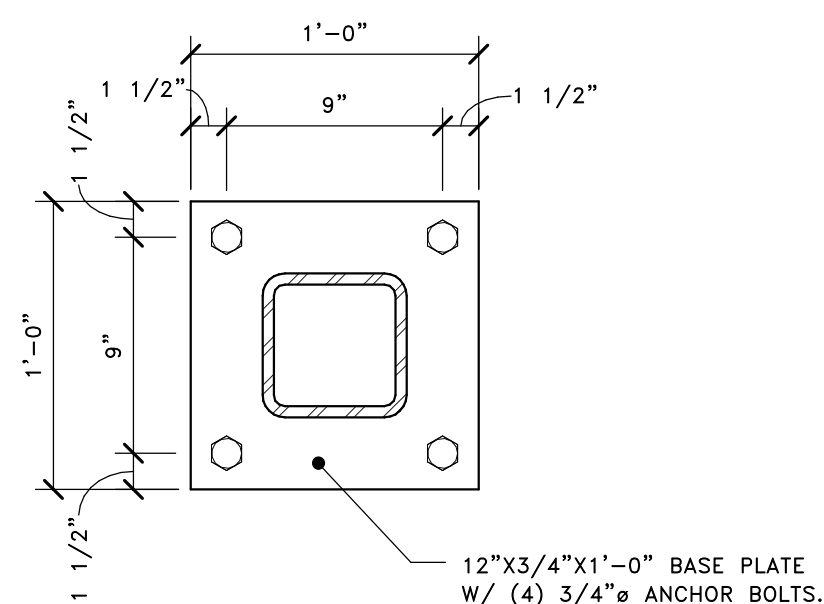
P6
SCALE: 3/4" = 1'-0"



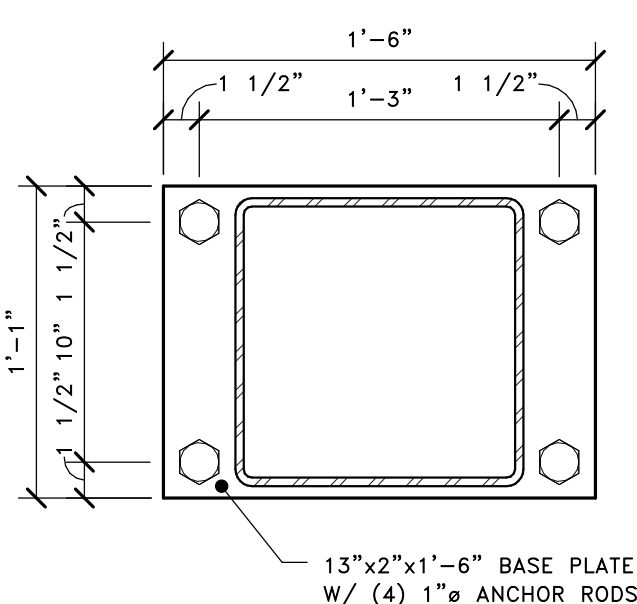
BP1
SCALE: 1 1/2" = 1'-0"



BP2
SCALE: 1 1/2" = 1'-0"

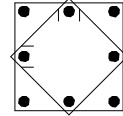


BP3
SCALE: 1 1/2" = 1'-0"

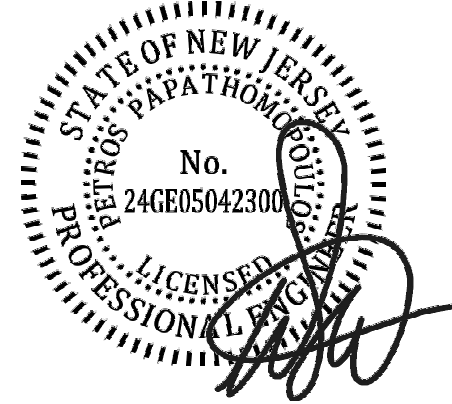


BP4
SCALE: 1 1/2" = 1'-0"

- BASE PLATE, ANCHOR BOLTS, AND PIER NOTES
1. ALL ANCHOR BOLTS SHALL BE GALVANIZED ASTM F1554 GRADE 36 HEADED RODS.
 2. ALL ANCHOR BOLTS SHALL HAVE A MINIMUM 18" EMBEDMENT INTO CONCRETE.
 3. ALL COLUMNS SHALL BE CENTERED ON BASE PLATE UNLESS NOTED OTHERWISE.
 4. REINFORCE ALL PIERS WITH (8)#7 VERTICAL DOWELS WITH STANDARD HOOK INTO FOOTING AND (8)#7 FULL HEIGHT VERTICALS. PROVIDE (2) #5 TIES AT 12" o/c UNDER ALL COLUMNS BEARING ON PIERS. ADD TWO ADDITIONAL TIES AT TOP OF ALL PIERS.
 5. PROVIDE 1/4" LEVELING PLATE SAME SIZE AS BASE PLATE. BOTTOM OF BASE PLATE ELEVATIONS SHALL BE 1" ABOVE TOP OF PIER OR FOOTING UNLESS OTHERWISE NOTED.



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ARCHITECT:



ENGINEER:



REVISIONS

DRAWN BY: AAL
CHECKED BY: KEC

PIERS AND BASEPLATES

RCNJ No. 2014-37-01C
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OF NEW JERSEY
505 RAMAPO VALLEY RD.
MAHWAH, NJ 07430
17565.00



ISSUED:
3.24.16

DESCRIPTION:
BID DOCUMENTS

SHEET:

S-400

- CRUSHED STONE
1. PRIOR TO PLACING CRUSHED STONE, ALL ORGANIC MATERIAL, TOPSOIL, DEBRIS AND ANY OTHER DELTERIOUS MATERIAL SHALL BE REMOVED.
2. CRUSHED STONE SHALL BE AN APPROVED MATERIAL MEETING THE REQUIREMENTS OF THE FOLLOWING TABLE:
- | SIEVE DESIGNATION | % PASSING |
|-------------------|-----------|
| 1 3/4" | 100 |
| 1 1/2" | 90 - 100 |
| 1" | 20 - 35 |
| 3/4" | 0 - 15 |
| 3/8" | 0 - 5 |
3. THE MATERIAL SHALL BE PLACED IN MAXIMUM 12" LIFTS AND COMPACTED.

4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN, FROM A TESTING FIRM APPROVED BY THE ENGINEER, A SIEVE ANALYSIS FOR THE PROPOSED CRUSHED STONE. THE PROCEDURE SHALL BE REPEATED UNTIL A MATERIAL MEETING THE ABOVE REQUIREMENTS IS PROVIDED.

COLD WEATHER CONSTRUCTION PROCEDURES

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTINUOUSLY PROTECT SOILS, CONCRETE, MASONRY AND OTHER BUILDING MATERIALS FROM DAMAGE DUE TO COLD TEMPERATURES UNTIL THE BUILDING HAS BEEN TURNED OVER TO THE OWNER. THIS SHALL INCLUDE TEMPORARY ENCLOSURES, INSULATED BLANKETS AND TEMPORARY HEATING.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE ANY DAMAGED OR DEFECTIVE WORK, IN A MANNER APPROVED BY THE ENGINEER.
3. ALL PROTECTIVE AND CORRECTIVE WORK SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

SAFETY AND PROTECTION

CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF, AND SHALL PROVIDE THE NECESSARY PROTECTION TO PREVENT DAMAGE, INJURY OR LOSS TO

1. ALL EMPLOYEES ON THE WORK AND OTHER PERSONS WHO MAY BE AFFECTED THEREBY.
2. ALL THE WORK AND ALL MATERIALS OR EQUIPMENT TO BE INCORPORATED THEREIN, WHETHER IN STORAGE ON OR OFF, THE SITE, AND
3. OTHER PROPERTY AT THE SITE OR ADJACENT THERETO, INCLUDING TREES, SHRUBS, LAWNS, WALKS, PAVEMENTS, ROADWAYS, STRUCTURES AND UTILITIES NOT DESIGNATED FOR REMOVAL, RELOCATION OR REPLACEMENT IN THE COURSE OF CONSTRUCTION.

CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE STANDARDS (SPECIFICALLY INCLUDING OSHA, AND ANY OTHER STATE ADOPTED OSHA PROGRAM), LAWS, ORDINANCES, RULES, REGULATIONS AND ORDERS OF ANY PUBLIC BODY HAVING JURISDICTION FOR THE SAFETY OF PERSONS OR PROPERTY OR TO PROTECT THEM FROM DAMAGE, INJURY OR LOSS; AND SHALL ERECT AND MAINTAIN ALL NECESSARY SAFEGUARDS FOR SUCH SAFETY AND PROTECTION. CONTRACTOR SHALL NOTIFY OWNERS OF ADJACENT PROPERTY AND UTILITIES WHEN EXECUTION OF THE WORK MAY AFFECT THEM.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REPAIRS AND OTHER COSTS ARISING FROM ANY DAMAGE AT THE SITE OR ADJACENT THERETO.

CONTRACTOR'S DUTIES AND RESPONSIBILITIES FOR THE SAFETY AND PROTECTION OF THE WORK SHALL CONTINUE UNTIL SUCH TIME AS ALL THE WORK IS COMPLETED.

SAND FILL UNDER SLABS

1. SAND FILL SHALL BE AN APPROVED, WELL GRADED BANK RUN SAND MEETING THE REQUIREMENTS OF THE FOLLOWING TABLE:

SIEVE DESIGNATION	% PASSING
3/8"	100
NO. 4	80-95
NO. 10	50-90
NO. 40	20-50
NO. 200	0-5

2. THE MATERIAL SHALL BE PLACED IN MAXIMUM 8" LIFTS AND COMPACTED TO 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D-1557, MODIFIED PROCTOR.

3. THE OWNER WILL TAKE DENSITY TESTS ON THE COMPACTED FILL. DENSITY TESTS SHALL BE DONE ON EACH LIFT AT THE RATE OF ONE TEST FOR EVERY 1000 SQUARE FEET OF COMPACTED FILL. IF THE MATERIAL TESTS LESS THAN 95%, CORRECTIVE ACTION AND ADDITIONAL TESTING WILL BE REQUIRED. THE ADDITIONAL TESTING AND CORRECTIVE ACTION WILL BE PAID FOR BY THE CONTRACTOR.

4. MATERIALS SHALL BE PLACED IN SUCH A WAY AS NOT TO DAMAGE CONCRETE FOUNDATIONS AND ESPECIALLY THE VAPOR BARRIER.

5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN, FROM A TESTING FIRM APPROVED BY THE ENGINEER, A SIEVE ANALYSIS AND A LABORATORY MOISTURE-DENSITY CURVE FOR THE PROPOSED SAND FILL. THE PROCEDURE SHALL BE REPEATED UNTIL A MATERIAL MEETING THE SPECIFICATIONS IS PROVIDED.

DESIGN LOADS (ASCE 7-10)

ROOF LOAD

Pf = 24 PSF
Ce = 1.0
I = 1.1
Ct = 1.0

EARTHQUAKE LOAD

Ss = 0.264 g
S1 = 0.072 g
SDS = 0.211 g
SD1 = 0.081 g
SEISMIC USE GROUP = III
SEISMIC DESIGN CATEGORY = B
SITE CLASS = C
SEISMIC RESISTING SYSTEM = MOMENT FRAMES
ANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE
DESIGN BASE SHEAR = 6.4k
Cs = .086
R = 3
IE = 1.25

WIND LOAD

BASIC WIND SPEED = 130 MPH
IW = 1.0
EXPOSURE = C

FOUNDATION NOTES

1. ALL STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE SITE, ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND THE SPECIFICATIONS.
2. ALL CONCRETE WORK SHALL COMPLY WITH THE LATEST RECOMMENDATIONS AND SPECIFICATIONS OF THE AMERICAN CONCRETE INSTITUTE (ACI) AND THE LOCAL BUILDING CODES.
- ACI 211-1 RECOMMENDED PRACTICE FOR SELECTING PROPORTIONS FOR NORMAL WEIGHT CONCRETE
- ACI 212 GUIDE FOR USE OF ADMIXTURES IN CONCRETE - COMMITTEE REPORT
- ACI 214 RECOMMENDED PRACTICE FOR EVALUATION OF COMPRESSION TEST RESULTS OF FIELD CONCRETE
- ACI 301 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS
- ACI 302 RECOMMENDED PRACTICE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION
- ACI 304 GUIDE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE
- ACI 305 RECOMMENDED PRACTICE FOR HOT WEATHER CONCRETING
- ACI 306 RECOMMENDED PRACTICE FOR COLD WEATHER CONCRETING
- ACI 308 RECOMMENDED PRACTICE FOR CURING CONCRETE
- ACI 309 RECOMMENDED PRACTICE FOR CONSOLIDATION OF CONCRETE
- ACI 315 MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES
- ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE
- ACI 347 RECOMMENDED PRACTICE FOR CONCRETE FORMWORK

3. ALL CONCRETE SHALL BE NORMAL WEIGHT HAVING A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI PSI AT 28 DAYS WITH THE FOLLOWING REQUIREMENTS:

PORTLAND CEMENT - ASTM C150, TYPE I/II.

AGGREGATE - ASTM C33, 1" MAXIMUM SIZE FOR STRUCTURAL CONCRETE (EXCEPT SLABS-ON-GRADE) 3/8" MAXIMUM SIZE FOR STAIR FILL AND 1 1/2" MAXIMUM SIZE FOR FOOTINGS. USE 1 1/2" AGGREGATE FOR ALL SLABS-ON-GRADE.

WATER - POTABLE WITH A MAXIMUM WATER CEMENT RATIO OF 0.50.

SLUMP - 3" TO 5".

ADMIXTURES - USE AIR ENTRAINING AGENT CONFORMING TO ASTM C260 WITH 4-6% TOTAL AIR. USE WATER REDUCING AGENT CONFORMING TO ASTM C494 IN ALL CONCRETE.

DESIGN MIX - SUBMIT A CURRENT (MAXIMUM 18 MONTHS OLD) DESIGN MIX OF THE EXACT SAME MIX TO BE USED ON THE PROJECT, WITH 28 DAY COMPRESSIVE STRENGTH TESTS, TO THE ENGINEER FOR REVIEW PRIOR TO STARTING CONSTRUCTION.

4. ALL REINFORCING STEEL SHALL COMPLY WITH ASTM A615, GRADE 60 (ASTM A615M GRADE 400) EXCEPT AS OTHERWISE NOTED.

5. LAP ALL BARS 40 DIAMETERS MINIMUM AT SPLICES UNLESS INDICATED OTHERWISE ON THE DRAWINGS. TOP BARS TO BE SPLICED AT MIDSPAN AND BOTTOM BARS AT SUPPORTS.

6. REINFORCEMENT SHALL BE SECURELY TIED IN ITS PROPER PLACE BEFORE AND DURING POURING OPERATIONS USING APPROVED CHAIRS AND SPACERS AS REQUIRED. NO BARS SHALL BE CUT OR OMITTED WITHOUT THE APPROVAL OF THE ENGINEER. USE PLASTIC TIPPED ACCESSORIES IN CONCRETE EXPOSED TO WEATHER, WATER OR VIEW.

7. WHERE CONTINUOUS BARS ARE CALLED FOR, INDICATED OR REQUIRED, THEY SHALL BE RUN CONTINUOUSLY AROUND CORNERS, DOWELED INTO INTERSECTING WALLS AND LAPPED AT NECESSARY SPLICES WITH SPLICES STAGGERED WHEREVER POSSIBLE.

8. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:

CONCRETE CAST AGAINST EARTH FORMED CONCRETE EXPOSED TO EARTH OR WEATHER	3"
#5 (16) AND SMALLER	1 1/2"
#6 (#19) AND LARGER	2"
CONCRETE NOT EXPOSED TO EARTH OR WEATHER SLABS, WALLS AND JOISTS	3/4"
BEAMS AND COLUMNS	1 1/2"

9. THE CONCRETE CONTRACTOR SHALL INSTALL (OR GIVE OTHER TRADES AMPLE OPPORTUNITY TO INSTALL) ALL ANCHORS, BOLTS, PLATE, NAILERS, SLOTS, CHASES, PIPE SLEEVES, ETC., AS REQUIRED BY OTHER TRADES. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE SETTING SCREEDS AND FORMS.

10. FOOTINGS SHALL REST ON SUITABLE UNDISTURBED SOIL OR COMPACTED GRANULAR FILL HAVING A MINIMUM BEARING CAPACITY OF 4000 PSF. ELEVATIONS OF BOTTOM OF FOOTINGS ARE SHOWN ON PLANS, BUT ARE SUBJECT TO REVISION WHEN TRUE SOIL CONDITIONS ARE EXPOSED BY EXCAVATION. THE ENGINEER SHALL BE NOTIFIED PROMPTLY OF ANY WEAK STRATA.
- WATER CONDITIONS OR OTHER POOR BEARING CONDITIONS. SEE GEOTECHNICAL REPORT DATED 11-17-2015 BY SOR CONSULTING ENGINEERS FOR COMPLETE FOUNDATION PREPARATION AND DEWATERING REQUIREMENTS.

11. FOOTING EXCAVATIONS SHALL BE DONE IN SUCH A MANNER AS TO DRAIN AWAY ALL SURFACE AND GROUND WATER. EXCAVATION EQUIPMENT AND PROCEDURES SHALL BE USED SUCH THAT FIRM SOIL BEARING CONDITIONS ARE MAINTAINED.

12. UNLESS OTHERWISE NOTED, ALL FOOTINGS, PILLS, CAISSONS AND PIERS SHALL BE CENTERED UNDER SUPPORTED MEMBER.

13. FOUNDATION WALLS SHALL BE POURED IN ALTERNATE LENGTHS, EACH POUR NOT TO EXCEED APPROXIMATELY 30 FEET IN ANY DIRECTION. CONSTRUCTION JOINTS SHALL BE PLACED AT POINTS OF MINIMUM SHEAR. NO HORIZONTAL JOINTS SHALL BE PERMITTED EXCEPT AS SHOWN ON PLANS.

14. SLABS AND BEAMS SHALL BE POURED MONOLITHICALLY EXCEPT WHERE OTHERWISE SHOWN AND SHALL BE FINISHED AS INDICATED IN THE SPECIFICATIONS (ON THE PLANS). CONSTRUCTION JOINTS IN FRAMED SLABS SHALL BE LOCATED SO THAT EACH INDIVIDUAL POUR DOES NOT EXCEED 750 SQUARE FEET IN AREA NOR 30 FEET IN ANY DIRECTION. SLABS SHALL BE POURED IN ALTERNATE PANELS.

15. CONTRACTOR SHALL REPAIR, AT HIS EXPENSE, ALL CONCRETE SLAB DEFECTS SUCH AS CURLING OR CRACKING, GRINDING, PATCHING, ETC. REPAIR PROCEDURES SHALL BE APPROVED BY THE ENGINEER PRIOR TO STARTING WORK.

16. CHAMFER EDGES OF EXPOSED BEAMS AND COLUMNS.

17. CONCRETE TEMPERATURE DURING THE FIRST SEVEN DAYS SHALL BE MAINTAINED BETWEEN 50 DEG.F AND 90 DEG.F. RAPID DRYING MUST BE PREVENTED.

18. CURING
- A) HORIZONTAL SURFACES SHALL BE KEPT CONTINUOUSLY MOIST FOR A MINIMUM OF SEVEN DAYS.

- B) VERTICAL SURFACES SHALL RECEIVE 2 COATS (ONE AT TIME OF STRIPPING AND ANOTHER 3 DAYS LATER) OF AN APPROVED NON-TOXIC CURING COMPOUND.

19. ALL FOUNDATION WALLS SHALL BE ADEQUATELY BRACED TO WITHSTAND EARTH AND CONSTRUCTION LOAD PRESSURES. WALLS MUST BE AT LEAST SEVEN DAYS OLD BEFORE BACKFILLING.

20. BACKFILLING AGAINST FOUNDATION WALLS SHALL BE DONE BY PLACING SIMULTANEOUS LEVEL LAYERS ON BOTH SIDES OF THE WALL SUCH THAT THE DIFFERENCE BETWEEN ONE SIDE AND THE OTHER DOES NOT EXCEED 24 INCHES.

21. SELECT BACKFILL OUTSIDE OF FOUNDATION WALL:

- A) AN APPROVED MATERIAL FREE OF BOULDERS LARGER THAN 6", ORGANIC MATERIAL, TOPSOIL AND DEBRIS.
- B) PLACE IN MAXIMUM 8" LIFTS AND COMPACT TO 90% MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT AS DEFINED BY ASTM D-1557.

22. THE CONTRACTOR TO DESIGN, FURNISH AND INSTALL ALL TEMPORARY SHEETING, SHORING AND BRACING NECESSARY TO SAFELY COMPLETE THE CONSTRUCTION.

23. THE CONTRACTOR SHALL PROVIDE THE NECESSARY EQUIPMENT AND CONTINUOUSLY DEWATER THE SITE TO FACILITATE CONSTRUCTION AND SAFE WORKING CONDITIONS.

24. SHOP DRAWINGS PREPARED IN ACCORDANCE WITH ACI STANDARDS WILL BE REQUIRED FROM THE CONTRACTOR FOR REINFORCING STEEL PRIOR TO CONSTRUCTION. THE REUSE, OR REPRODUCTION, OF ANY PORTION OF THESE DOCUMENTS FOR USE AS SHOP DRAWINGS IS STRICTLY PROHIBITED WITHOUT THE WRITTEN PERMISSION OF MCFARLAND-JOHNSON, INC.

25. THE OWNER WILL EMPLOY A QUALIFIED INDEPENDENT ENGINEERING TESTING FIRM TO PERFORM STANDARD FIELD TESTING OF THE CONCRETE WORK. CONCRETE SHALL BE TESTED FOR:

- A) COMPRESSIVE STRENGTH (4 CYLINDERS: ONE AT 7 DAYS, 2 AT 28 DAYS AND RETAIN ONE FOR 56 DAYS FOR TESTING IN THE EVENT THE 28 DAY RESULTS DO NOT MEET SPECIFICATIONS.) TAKE ONE SET OF FOUR (4) CYLINDERS FOR EACH PLACEMENT AND NOT LESS THAN ONE SET FOR EACH 50 CUBIC YARDS.
- B) SLUMP (BEFORE AND AFTER PLASTICIZER IF USED).
- C) TEMPERATURE (AIR AND CONCRETE).
- D) UNIT CONTENT.
- E) UNIT WEIGHT.

ROOF DECK

1. ROOF DECK SHALL BE OF TYPE, GAUGE, FINISH AND MANUFACTURER AS INDICATED ON THE DRAWINGS, OR APPROVED EQUIVALENT.
2. COMPLY WITH PROVISIONS OF THE LATEST EDITION OF THE FOLLOWING CODES AND STANDARDS, EXCEPT AS OTHERWISE SHOWN OR SPECIFIED:
- A. AISI "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS"
- B. SDI "DESIGN MANUAL FOR FLOOR DECKS AND ROOF DECKS".
- C. SDI "DIAPHRAGM DESIGN MANUAL".
- D. FACTORY MUTUAL.

3. MATERIALS:
- A. STEEL FOR GALVANIZED STEEL DECK UNITS: ASTM A446, GRADE A, B, C, D, E OR F WITH A MINIMUM YIELD POINT OF 33 KSI. NO OIL PRESERVATIVE IF DECK TO BE PAINTED.
- B. STEEL FOR PAINTED STEEL DECK UNITS: ASTM A611, GRADE C, D OR E WITH A MINIMUM YIELD POINT OF 33 KSI.

4. FINISHES:
- A. GALVANIZING SHALL CONFORM TO ASTM A525 COATING CLASS G60.
- B. SHOP COAT OF MANUFACTURER'S STANDARD PRIMER PAINT APPLIED OVER CLEANED AND PHOSPHATIZED STEEL.

5. INSTALLATION:
- A. STEEL DECK SHALL BE ERECTED AND FASTENED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND ERECTION LAYOUTS. PUDDLE WELDS SHALL BE AT LEAST 5/8 INCH IN DIAMETER, OR ELONGATED, HAVING AN EQUAL PERIMETER. FILLET WELDS WHEN USED SHALL BE APPROXIMATELY 1.5 INCHES LONG. WELD METAL SHALL PENETRATE ALL LAYERS OF DECK MATERIAL AT END LAPS AND SIDE JOINTS AND HAVE GOOD FUSION TO THE SUPPORTING MEMBERS. FASTENING WITH 56/7 PATTERN WITH TWO SIDELAPS PER SPAN. END LAPS OF SHEETS SHALL BE A MINIMUM OF 2 INCHES AND SHALL OCCUR OVER SUPPORTS.
- B. POWDER ACTUATED OR PNEUMATICALLY-DRIVEN FASTENERS, EQUIVALENT TO THE WELDS, WILL BE CONSIDERED BY THE ENGINEER. COMPLETE DOCUMENTATION SHALL BE SUBMITTED.
- C. EXTREME CAUTION MUST BE USED BY THE DECK INSTALLER TO INSURE THAT THE POWDER ACTUATED FASTENERS ARE NOT DRIVEN COMPLETELY THROUGH THE DECK.
- D. UPLIFT LOADING: INSTALL AND ANCHOR ROOF DECK UNITS TO RESIST GROSS UPLIFT LOADING OF 30 PSF, EXCEPT EAVE OVERHANGS SHALL RESIST 45 PSF.
- E. ALL EDGES OF THE DECKING SHALL BE PROPERLY SUPPORTED. OPENINGS IN THE DECK EQUAL TO OR SMALLER THAN 8" SQUARE SHALL HAVE A 20" SQUARE X 1/8" THICK PLATE WELDED OR SCREWED TO THE TOP OF THE DECK TO SUPPORT THE OPENINGS. FOR OPENINGS LARGER THAN THE ABOVE, AN L4x4x1/4 FRAME (BEARING ON STRUCTURAL SUPPORTS) SHALL BE USED UNLESS OTHERWISE NOTED ON DRAWINGS.

6. ACCESSORIES:
- A. RIDGE AND VALLEY PLATES AND STEEL CANT STRIPS ATTACHED DIRECTLY TO THE STEEL DECK AS REQUIRED AND AS SHOWN ON THE PLANS TO PROVIDE A FINISHED SURFACE FOR THE APPLICATION OF INSULATION AND ROOFING, SHALL BE FURNISHED BY THE DECK MANUFACTURER.
- B. PROVIDE ALL OTHER ACCESSORIES INCLUDING METAL AND FLEXIBLE CLOSURE STRIPS, SUMP PANS, ETC. NECESSARY FOR A COMPLETE INSTALLATION.

7. SHOP DRAWINGS: SUBMIT DETAILED DRAWINGS SHOWING LAYOUT, TYPE, GAUGE AND MANUFACTURER OF DECKING, FASTENER TYPE AND SPACING AND ALL ACCESSORIES.

STRUCTURAL NOTES

1. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE SITE, ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND THE SPECIFICATIONS.

2. ALL STRUCTURAL STEEL WORK SHALL, UNLESS OTHERWISE INDICATED, CONFORM TO THE "STEEL CONSTRUCTION MANUAL", SPECIFICALLY INCLUDING THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS AND THE CODE OF STANDARD PRACTICE OF THE A.I.S.C. AND TO THE REQUIREMENTS OF THE LOCAL BUILDING CODES.

3. ALL WELDING SHALL CONFORM TO THE "STRUCTURAL WELDING CODE - AWS/AWS D1.1" OF THE AMERICAN WELDING SOCIETY.

4. STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING:
- STRUCTURAL SHAPES
- ASTM A992, FY = 50,000 PSI (WIDE FLANGE SHAPES)
- ASTM A36, FY = 36,000 PSI (ANGLES, CHANNELS, S-SHAPES, ETC.)
- BOLTS
- ASTM A325
- COLUMN ANCHOR BOLTS
- ASTM F1554 OR 36 GALVANIZED
- STEEL PIPE
- ASTM A53, TYPE E OR S, GRADE B, FY = 35,000 PSI
- ASTM A500, GRADE B, FY = 42,000 PSI
- STRUCTURAL TUBING
- ASTM A500, GRADE B, FY = 46,000 PSI

5. ALL SHOP CONNECTIONS SHALL BE BOLTED OR WELDED. ALL FIELD CONNECTIONS SHALL BE BOLTED EXCEPT WHERE WELDING IS SPECIFICALLY CALLED FOR. BOLTS SHALL BE 3/4" DIA. MINIMUM WITH OPEN HOLES 1/16" LARGER, EXCEPT FOR COLUMN GROUT PLATES WHICH ARE 3/16" LARGER AND COLUMN BASE PLATES WHICH ARE 5/16" LARGER. CONNECTIONS NOT DETAILED SHALL BE DESIGNED FOR THE LOADS INDICATED ON THE DRAWINGS, LOADS GIVEN IN THE AISC UNIFORM LOAD TABLES OR AS INDICATED IN THE MINIMUM CONNECTION DETAILS, WHICHEVER IS GREATER.

6. TIGHTEN ALL BOLTS TO ACHIEVE THE MINIMUM FASTENER TENSION SPECIFIED IN TABLE 4 OF RCSC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS". CONTRACTOR SHALL EMPLOY AN INDEPENDENT TESTING LABORATORY TO TEST A MINIMUM OF THREE BOLTS IN A DEVICE CAPABLE OF INDICATING BOLT TENSION TO VERIFY PROPER BOLT TIGHTENING PROCEDURES AND RELATE BOLT TENSION TO TORQUE. TWIST-OFF OR T.C. BOLTS THAT MEET ASTM A325 OR A490 REQUIREMENTS ARE ACCEPTABLE.

7. THE DESIGN OF ALL CONNECTIONS SHALL BE THE RESPONSIBILITY OF THE STEEL FABRICATOR. COMPLETE CALCULATIONS SHALL BE PREPARED BY A REGISTERED PROFESSIONAL ENGINEER AND SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO ANY FABRICATION.

8. ALL STRUCTURAL STEEL SHALL BE SHOP PAINTED (MINIMUM 1.5 MILS DRY FILM THICKNESS) WITH AN APPROVED RUST INHIBITIVE PRIME PAINT. STEEL SHALL BE THOROUGHLY CLEANED (ABRASIVE BLASTED) PRIOR TO PAINTING. FIELD TOUCH UP WITH THE SAME PAINT WILL BE REQUIRED.

9. UNLESS OTHERWISE NOTED, PROVIDE LOOSE LITTELS OVER OPENINGS IN MASONRY WALLS FOR EACH 4" OF THICKNESS AS FOLLOWS: 1-13 1/2 X 3 1/2 X 1/4 (LENGTH = M.O. + 8") FOR OPENINGS UP TO AND INCLUDING 4'-0" 1-6X3 1/2 X 5/16 (LENGTH = M.O. + 12") FOR OPENINGS GREATER THAN 4'-0" TO 6'-0" EXTERIOR LITTELS SHALL BE HOT DIPPED GALVANIZED.

10. THE STRUCTURAL STEEL CONTRACTOR SHALL PROVIDE ALL NECESSARY GUYING AND BRACING REQUIRED TO ERECT AND HOLD THE STEEL FRAME PLUMB AND SQUARE UNTIL THE ROOF DECK AND WALLS ARE INSTALLED.

11. THERE WILL BE NO FIELD BURNING, CUTTING OR OTHER ALTERATIONS OF PRIMARY STRUCTURAL STEEL WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER.

12. NO MASONRY CONSTRUCTION SHALL BE ALLOWED IN AN AREA WHERE THE STRUCTURAL STEEL WORK IS NOT COMPLETE, SPECIFICALLY INCLUDING PLUMBING AND ALIGNMENT.

13. ALL ROOF DECKING SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS, FACTORY MUTUAL, REQUIREMENTS AND THE STEEL DECK INSTITUTE (S.D.I.) UNLESS OTHERWISE NOTED. ALL EDGES OF THE DECKING SHALL BE PROPERLY SUPPORTED. OPENINGS IN THE DECK EQUAL TO OR SMALLER THAN 8" IN DIAMETER OR 8" SQUARE SHALL HAVE A 20" SQUARE X 1/8" THICK PLATE WELDED OR SCREWED TO THE TOP OF THE DECK TO SUPPORT THE OPENINGS. FOR OPENINGS LARGER THAN THE ABOVE, AN L4X4X1/4 FRAME (BEARING ON STRUCTURAL SUPPORTS) SHALL BE USED UNLESS OTHERWISE NOTED ON PLANS.

14. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER (ARCHITECT) FOR REVIEW PRIOR TO FABRICATION FOR THE FOLLOWING ITEMS:
- STRUCTURAL STEEL
- ROOF DECKING

IT IS REQUIRED THAT THE STRUCTURAL STEEL SUBCONTRACTOR PREPARE COMPLETE ERECTION DRAWINGS. REVISING OR PHOTOCOPYING OF THESE STRUCTURAL DRAWINGS WILL NOT BE PERMITTED.

15. ALL STRUCTURAL STEEL FABRICATION AND ERECTION MUST COMPLY WITH THE LATEST REQUIREMENTS OF OSHA 29 CFR PART 1926.

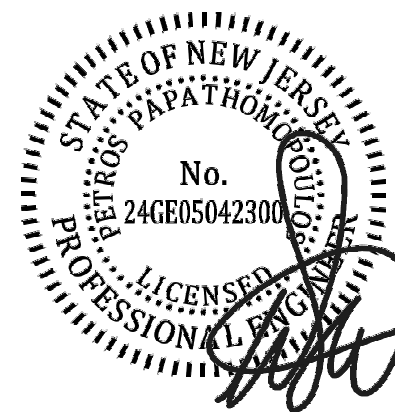
GRANULAR FILL UNDER SLABS & FOOTINGS

1. PRIOR TO PLACING GRANULAR FILL, ALL ORGANIC MATERIAL, TOPSOIL, DEBRIS AND ANY OTHER DELTERIOUS MATERIAL SHALL BE REMOVED.
2. GRANULAR FILL SHALL BE AN APPROVED, WELL GRADED BANK RUN OR CRUSHER RUN GRAVEL MEETING THE REQUIREMENTS OF THE FOLLOWING TABLE:

SIEVE DESIGNATION	% PASSING
100	
NO. 4	40-70
NO. 10	4-15
NO. 200	0-4

3. IF THE GRANULAR FILL IS IN CONTACT WITH A SUB-SLAB VAPOR BARRIER, IT SHALL BE A BANK-RUN GRAVEL RATHER THAN A CRUSHER-RUN GRAVEL SO THAT THE VAPOR BARRIER WILL NOT BE PUNCTURED THUS MAKING IT INEFFECTIVE.
4. THE MATERIAL SHALL BE PLACED IN MAXIMUM 8" LIFTS AND COMPACTED TO 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D-1557, MODIFIED PROCTOR.
5. THE OWNER WILL TAKE DENSITY TESTS ON THE COMPACTED FILL. DENSITY TESTS SHALL BE DONE ON EACH LIFT AT THE RATE OF ONE TEST FOR EVERY 1000 SQUARE FEET OF THE COMPACTED FILL. IF THE MATERIAL TESTS LESS THAN 95%, CORRECTIVE ACTION AND ADDITIONAL TESTING WILL BE REQUIRED. THE ADDITIONAL TESTING AND CORRECTIVE ACTION WILL BE PAID FOR BY THE CONTRACTOR.
6. MATERIALS SHALL BE PLACED IN SUCH A WAY AS NOT TO DAMAGE CONCRETE FOUNDATIONS AND FOOTINGS.
7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN, FROM A TESTING FIRM APPROVED BY THE ENGINEER, A SIEVE ANALYSIS AND A LABORATORY MOISTURE-DENSITY CURVE FOR THE PROPOSED GRANULAR FILL. THE PROCEDURE SHALL BE REPEATED UNTIL A MATERIAL MEETING THE SPECIFICATIONS IS PROVIDED.

SEALED:



CONNOR ARCHITECTURE ACCEPTS NO RESPONSIBILITY FOR UNAUTHORIZED REPRODUCTION OR UNAPPROVED USE OF THIS DOCUMENT. DRAWINGS ARE FOR GENERAL PURPOSES ONLY. NO MEASUREMENTS SHALL BE SCALED OFF DRAWINGS. ALL MEASUREMENTS SHALL BE VERIFIED IN FIELD.

ARCHITECT:



ENGINEER:



REVISIONS

DRAWN BY: AAL
CHECKED BY: KEC

STANDARD NOTES

RCNJ No. 2014-37-01C
PHASE 2: ALTERATIONS &
ADDITION
RAMAPO VALLEY RD.
MAHWAH, NJ 07430

RAMAPO COLLEGE
OF NEW JERSEY
175645.00



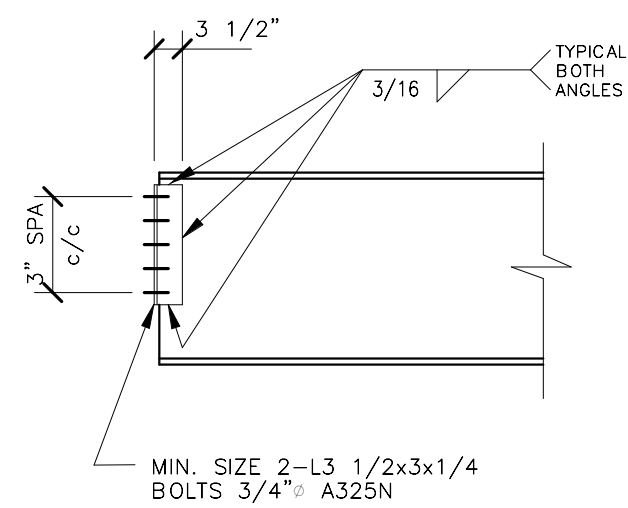
ISSUED:
3.24.16

DESCRIPTION:
BID DOCUMENTS

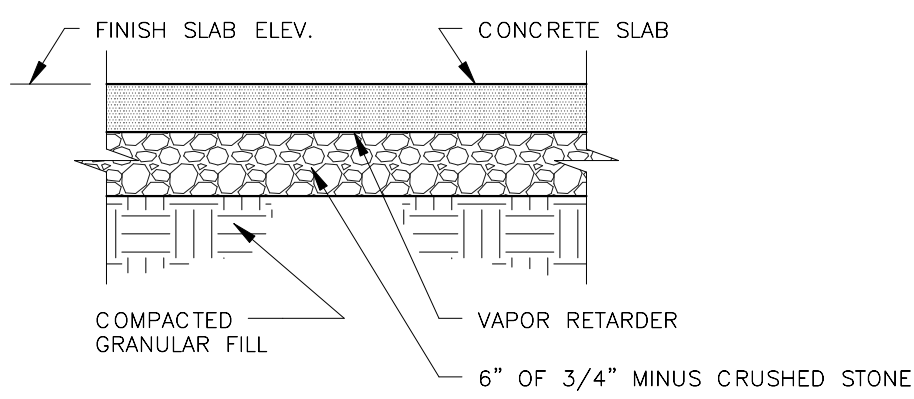
SHEET:
S-500

BEAM CONNECTION SCHEDULE		
BEAM SIZE	MINIMUM CAPACITY	MINIMUM NUMBER VERTICAL BOLTS
WB	13.8K	2
W10	15K	2
W12	24K	2
W14	28K	3
W16	30K	3
W18	36K	3
W21	56K	4
W24	80K	5
W27	83K	5
W30	83K	5
W33	98K	6
W36	98K	6

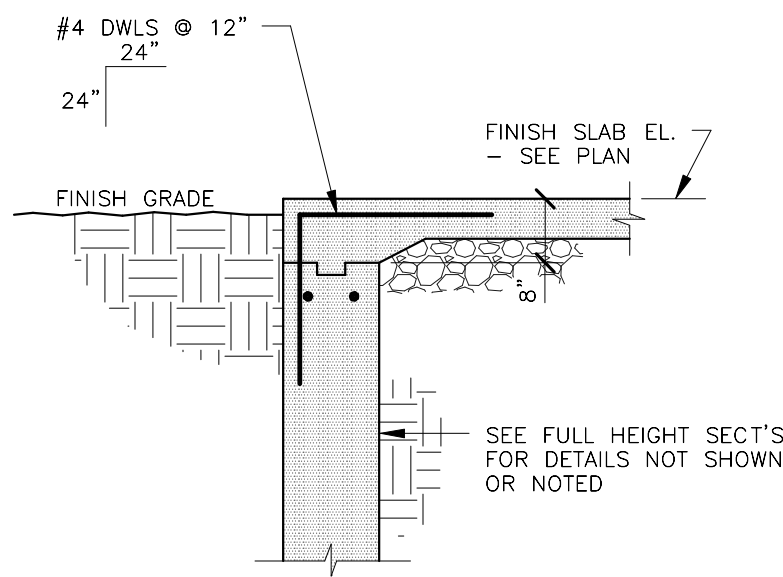
CONNECTIONS FOR ALL BEAMS SHALL HAVE MINIMUM CAPACITIES AND NUMBER OF VERTICAL BOLTS LISTED ABOVE. SEE PLANS FOR BEAMS REQUIRING LARGER REACTIONS THAN SHOWN ABOVE INDICATED AS FOLLOWS: 80K



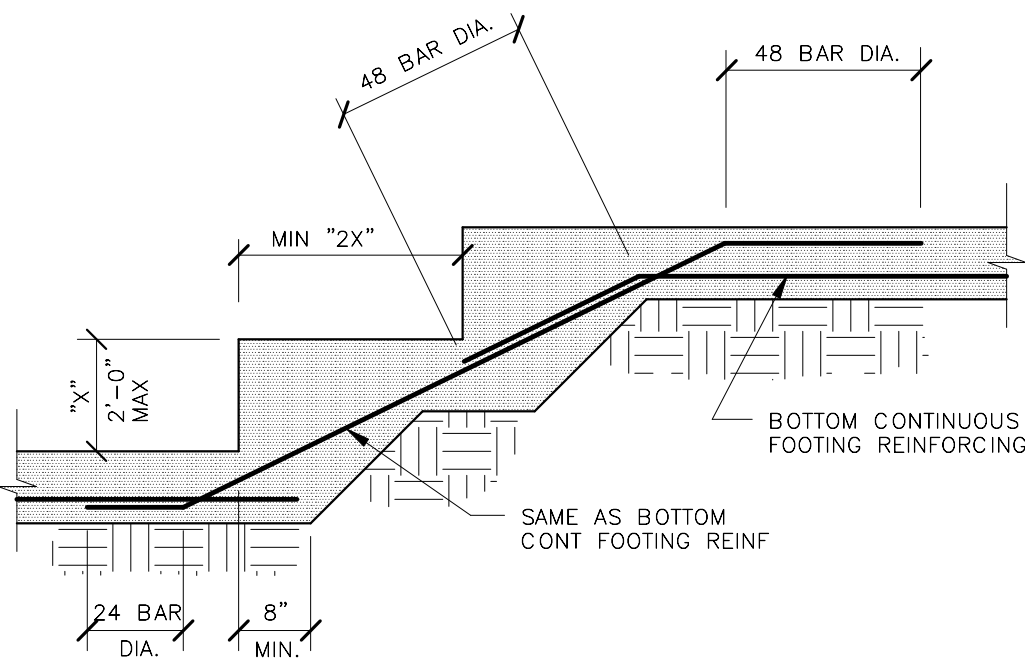
TYPICAL BEAM TYPE 2
ANGLE FRAMING CONNECTIONS



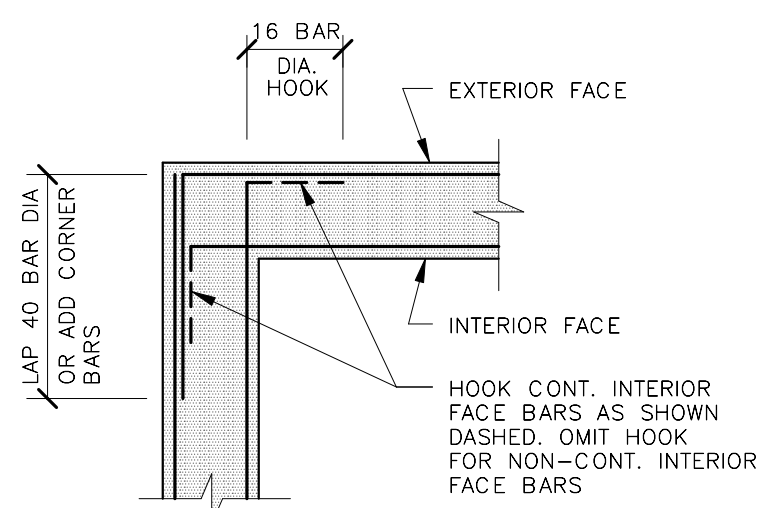
TYPICAL SLAB/SUBGRADE PROFILE



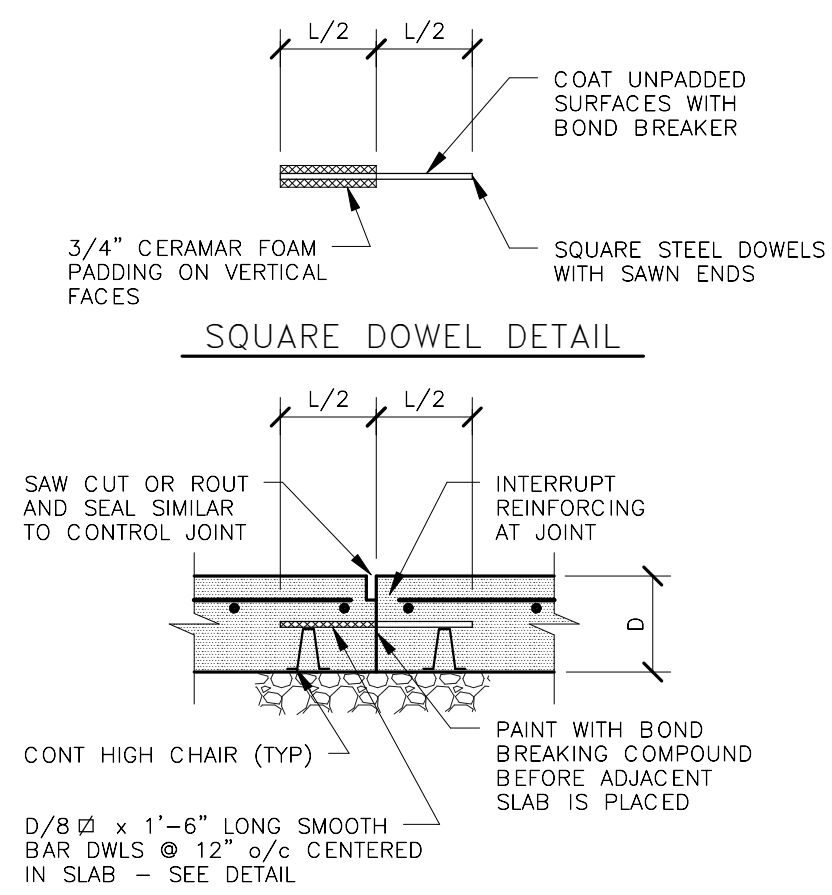
MANDOOR



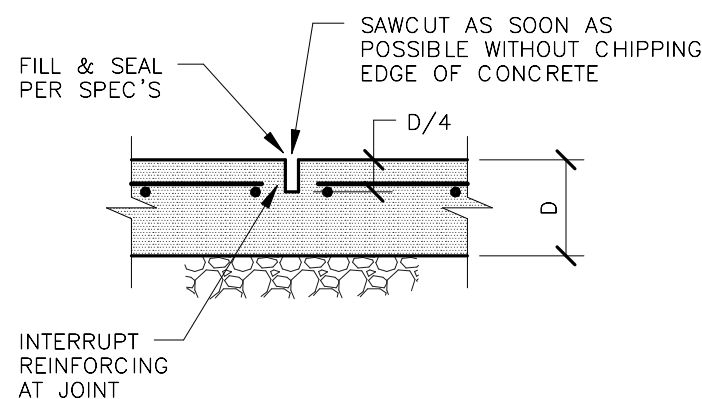
TYPICAL REINFORCING
STEPPED FOOTING DETAIL



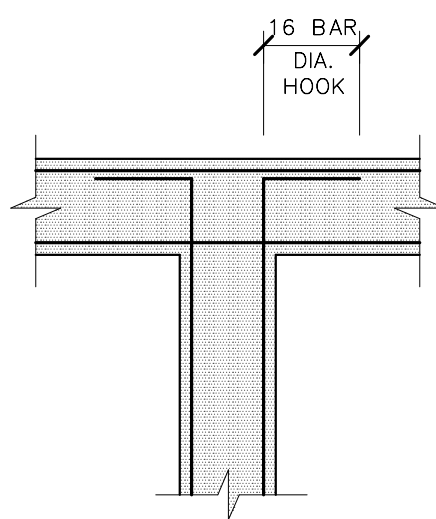
OUTSIDE CORNER



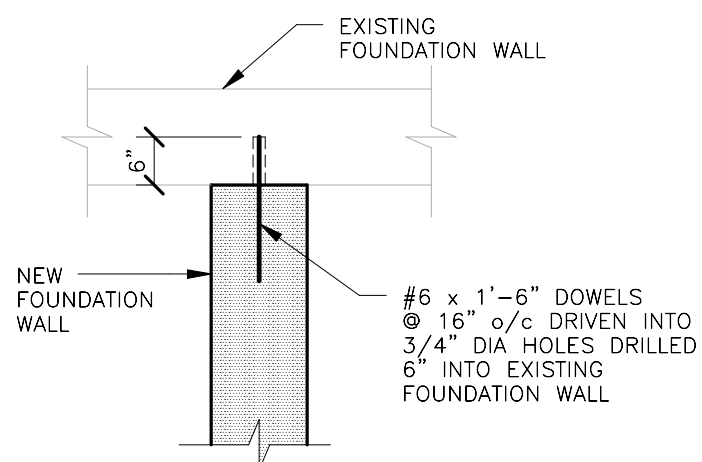
SLAB ON GRADE
CONSTRUCTION JOINT



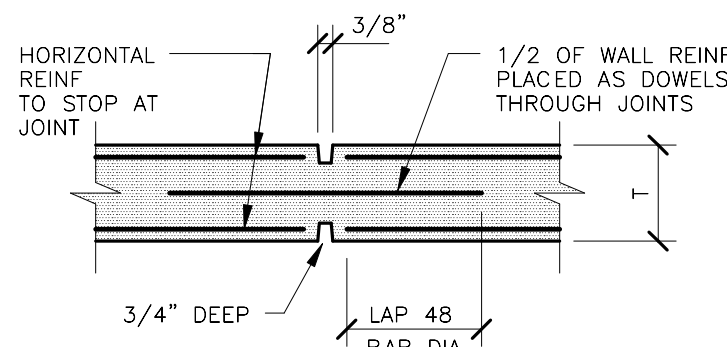
SLAB ON GRADE
CONTRACTION JOINT



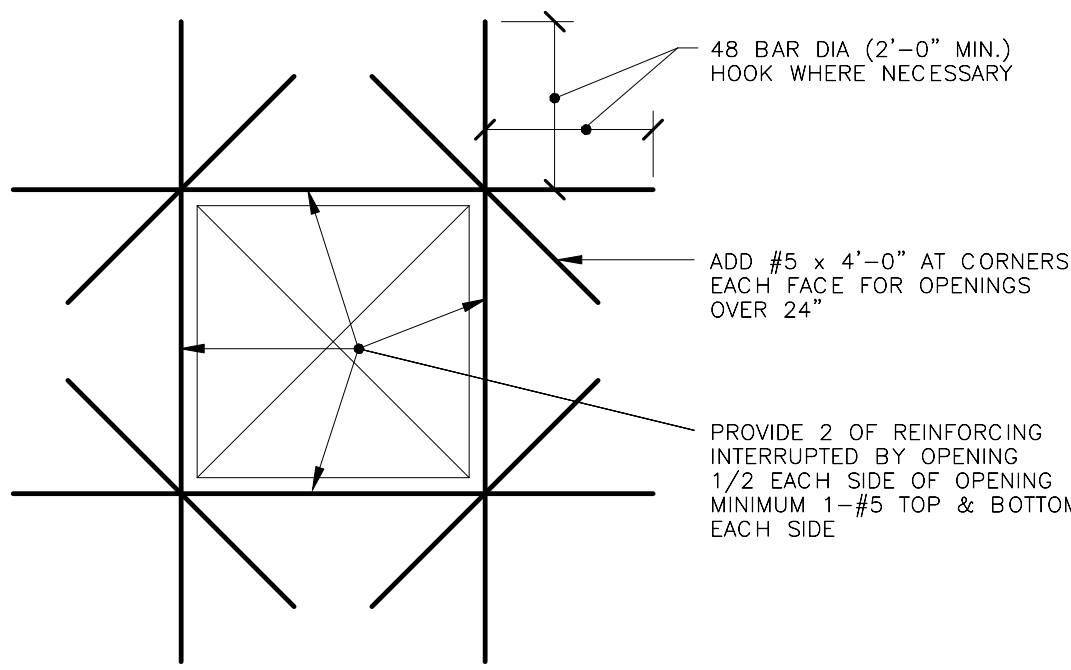
WALL INTERSECTION



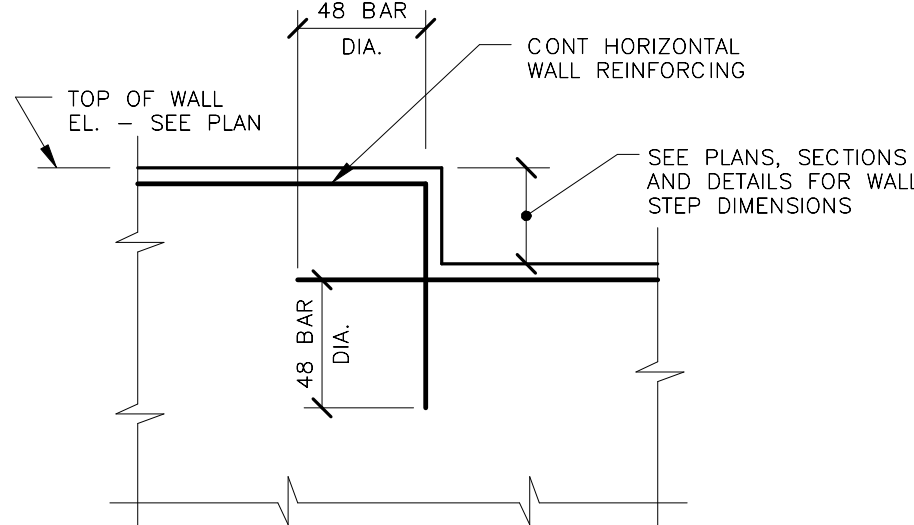
TYPICAL JOINT DETAIL OF
NEW/EXISTING FOUNDATION WALL



WALL

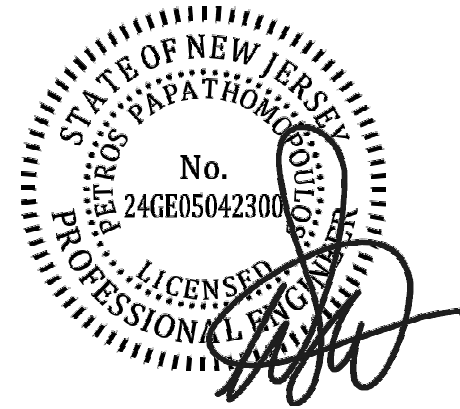


TYPICAL DETAIL OF REINFORCING
AT CONCRETE WALL OPENINGS



TYPICAL WALL STEP DETAIL

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