

GENERAL NOTES

- DESIGN
- A. GENERAL:
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND JOB SITE CONDITIONS BEFORE COMMENCING WORK AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER.
  - USE WRITTEN DIMENSIONS. DO NOT USE SCALED DIMENSIONS. WHERE NO DIMENSION IS PROVIDED, CONSULT THE ARCHITECT OR ENGINEER FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
  - THE DESIGN, ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND HAS NOT BEEN CONSIDERED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE PRIOR TO THE COMPLETION OF ALL SHEAR WALLS, ROOF AND FLOOR DIAPHRAGMS AND FINISH MATERIALS.
  - ECLIPSE ENGINEERING, INC. HOLDS NO LIABILITY FOR UNAUTHORIZED CHANGES MADE TO THE CONSTRUCTION DOCUMENTS THAT RESULT IN DAMAGES. ECLIPSE ENGINEERING, INC. IS NOT RESPONSIBLE FOR DAMAGES THAT RESULT FROM UNAUTHORIZED CHANGES MADE BY THE OWNER, A CONTRACTOR OR A BUILDING OFFICIAL, ETC.
  - CONTRACTOR SHALL VERIFY SITE REQUIREMENTS AND CONFIRM LOCATION OF THE ACTIVITY BASED ON SITE SURVEY PROVIDED BY STONER & ASSOCIATES, INC.
- B. DESIGN CRITERIA:
- CODES: 2020 BCNYS
  - FLOOR LIVE LOADS:
    - STAIRS: N/A
    - LANDINGS: 250 LB. POINT LOAD - TWO PEOPLE PER SMALL LANDING AND FOUR PEOPLE PER LARGE LANDING.
    - ACTIVITIES: 250 LB. POINT LOAD - LIMIT ONE PERSON PER ACTIVITY.
  - WIND DESIGN DATA:
    - BASIC WIND SPEED: -ASCE-7-16
    - WIND SPEED IN USE: -115 MPH (100 MPH - ASD), EXP. B (BOTH DIRECTIONS)
    - WIND SPEED USED: -40 MPH
  - ALLOWABLE SOIL BEARING CAPACITY:
    - 1500 PSF (ASSUMED)
    - 0.3xDL PSF SKIN FRICTION W/ SAND (ASSUMED)
    - 250 PCF LATERAL BEARING PRESSURE ON NATIVE FILL (ASSUMED)
  - ICE LOADING: 1" RADIAL ICE

FOUNDATION NOTES

- A. ECLIPSE ENGINEERING, INC. HAS DESIGNED THE FOUNDATION ELEMENTS OF THE TOWER TO BE SUPPORTED ON SOIL WITH AN ALLOWABLE BEARING PRESSURE OF 1500 PSF.
- B. IF THE SOIL AT THE SITE CONTAINS DISTURBED, ORGANIC, SILTY OR CLAYEY SOILS, A GEOTECHNICAL ENGINEER SHALL BE RETAINED TO DESIGN THE SOIL USED TO SUPPORT THE FOOTINGS, SLABS, AND OTHER FOUNDATION ELEMENTS.
- C. IF GROUND WATER IS PRESENT AT THE SITE, OR IF THE SITE IS LOCATED IN A SLIDE AREA, OR IF THE SOIL IS FILL, OR IF THE SOIL IS OTHERWISE CONSIDERED UNSTABLE, A GEOTECHNICAL ENGINEER SHALL BE RETAINED TO DESIGN THE SOIL USED TO SUPPORT THE FOOTINGS, SLABS, AND OTHER FOUNDATION ELEMENTS.
- D. THE CONTRACTOR SHALL MAKE CERTAIN THAT THE BOTTOM OF ALL FOOTINGS EITHER BEAR ON NATIVE, INORGANIC, UNDISTURBED, NON-SILTY, NON-CLAYEY SOIL OR STRUCTURAL, COMPACTED FILL.
- E. IF STRUCTURAL FILL IS TO BE USED, FILLS THAT SUPPORT FOOTINGS, FOUNDATIONS AND SLABS SHALL BE DESIGNED AND INSTALLED ACCORDING TO THE GEOTECHNICAL REPORT. FILL AND THE INSTALLATION OF FILL SHALL BE DESIGNED AND SPECIFIED BY A GEOTECHNICAL ENGINEER LICENSED TO PRACTICE IN THE JURISDICTION OF THE CONSTRUCTION SITE.
- F. THE BOTTOM OF ALL EMBEDDED POLES SHALL BEAR ON NATIVE, UNDISTURBED, INORGANIC SOIL. THE BOTTOM OF ALL POLES SHALL BEAR 6'-0" MINIMUM, UNLESS NOTED OTHERWISE, BELOW EXISTING GRADE. A LOCAL GEOTECH SHALL BE RETAINED IF CONDITIONS ARE DIFFERENT THAN DESCRIBED IN THE GEOTECHNICAL REPORT.
- G. HELICAL ANCHORS SHALL BE PROVIDED BY AB CHANCE OR EQUIVALENT TO SUPPORT THE LOADS INDICATED ON PLANS.

CAST-IN-PLACE CONCRETE

- A. CONCRETE:
- DESIGN STRENGTH
    - STRIP FOOTINGS, SLABS-ON-GRADE, FOUNDATION WALLS, AND RETAINING WALLS; F'C = 3000 PSI AT 28 DAYS, NORMAL WEIGHT
    - SITE - SLABS-ON-GRADE; F'C = 3000 PSI AT 28 DAYS, NORMAL WEIGHT, AIR ENTRAINED
  - MAXIMUM COARSE AGGREGATE SIZE: 3/4" INCH, U.N.O.
  - MAXIMUM SLUMPS:
    - FOOTINGS AND FLOOR SLABS: 3 INCHES (+ 1/2" TO (-) 1"
    - FOUNDATION WALLS AND COLUMNS: 3 INCHES (+ 1/2" TO (-) 1"
    - ENTRAINED AIR: 5% (+ OR -) 1 1/2%; USE ONLY FOR EXTERIOR EXPOSED CONCRETE FOR DURABILITY, U.N.O.
    - CURING COMPOUND: ASTM C309, TYPE 2, CLASS B
    - CONSTRUCTION TO BE IN ACCORDANCE WITH ACI 301
    - LOCATION OF CONSTRUCTION OR POUR JOINTS MUST BE APPROVED BY THE ENGINEER OF RECORD UNLESS OTHERWISE SHOWN ON THESE DRAWINGS.
- B. REINFORCING STEEL:
- USE ASTM A615 - GRADE 40 FOR #3 REINFORCING BARS, GRADE 60 FOR #4 AND LARGER REINFORCING BARS.
  - PROVIDE CLEARANCE AND COVER OF REBAR AS DESIGNATED IN ACI-318.
- C. WELDED WIRE FABRIC:
- USE ASTM A62 AND A185 (SHEETS ONLY)

STRUCTURAL STEEL

- A. MATERIAL
- SHAPES, PLATES AND BARS (EXCEPT W-SHAPES): ASTM A36, F<sub>y</sub> = 36 KSI
  - W-SHAPES: ASTM A992, F<sub>y</sub> = 50 KSI
  - PIPE: ASTM A53 OR A501, F<sub>y</sub> = 35 KSI MIN.
  - TUBES (INCLUDING HSS): ASTM A500, GRADE B, F<sub>y</sub> = 46 KSI OR GREATER.
  - GUY WIRES: 3/8" DIAMETER 7X19 316 (BREAKING STRENGTH = 12,000 LB.)
  - CROSS CABLES: 1/2" DIAMETER 6X19 316 (BREAKING STRENGTH = 22,800 LB.)
  - ACTIVITY CABLES: 3/8" DIAMETER 7X19 316 (BREAKING STRENGTH = 12,000 LB.)
  - SAFETY CABLES: 3/8" DIAMETER 7X19 316 (BREAKING STRENGTH = 12,000 LB.)
- B. BOLTS
- CARBON STEEL: ASTM A307 MACHINE BOLTS (M.B.) UNLESS OTHERWISE INDICATED AS A325 HIGH STRENGTH BOLTS "SET" (H.S.B.)
  - STAINLESS STEEL: A193 FOR THREADED ROD OR SS 316 BOLTS AND HARDWARE
  - EXPANSION BOLTS (E.B.): "HILTI KWIK BOLT TZ" OR APPROVED EQUAL. ADHESIVE ANCHORS: "HILTI" "HIT RE 500" OR APPROVED EQUAL, WHEN REQUIRED
  - ANCHOR BOLTS: ASTM F1554, GRADE 36, F<sub>y</sub>=36 KSI, WHEN REQUIRED
- C. WELDING ELECTRODES OR WIRES
- AWS A5.1 OR A5.5, E70XX: AWS A5.18, E70S-X.
  - WELDING SHALL CONFORM TO AWS "CODE FOR ARC AND GAS WELDING IN BUILDINGS".
  - ALL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER.
- D. PROTECTION AGAINST CORROSION:
- STRUCTURAL STEEL AND FASTENERS THAT ARE PERMANENTLY EXPOSED TO THE WEATHER SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123 AND ASTM A153, CLASS 'B'. REPAIR GALVANIZING AFTER WELDING IN ACCORDANCE WITH ASTM A780.
  - AS AN ALTERNATE, STAINLESS STEEL MAY BE USED IN PLACE OF HOT-DIPPED GALVANIZED FASTENERS WHEN AVAILABLE.
- E. ERECTION
- ERECTION AND FABRICATION SHALL BE IN ACCORDANCE WITH AISC "SPECIFICATIONS FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS."

WOOD

- A. MEMBERS
- SAWN LUMBER: NO 2 SPRUCE PINE FIR OR BETTER, WWPA GRADING RULES.
    - ALL LUMBER SHALL BE PRESSURE TREATED
  - TIMBERS: NO 1 SOUTHERN YELLOW PINE OR BETTER, WWPA GRADING RULES.
    - ALL TIMBERS SHALL BE PRESSURE TREATED.
  - POLES: CLASS 2 POLE COMFORMING TO ASTM D25-12, AND TREATED IN ACCORDANCE WITH ANSI O5.1
- B. FRAMING ANCHORS AND CONNECTORS
- "SIMPSON" OR APPROVED EQUAL AS INDICATED ON THESE DRAWINGS.
  - HEADLOK OR SPAX ARE APPROVED FASTENERS.
- C. NAILING
- FOR NAILING NOT SHOWN ON THESE DRAWINGS OR IN THESE NOTES, USE IBC FASTENING SCHEDULE (TABLE 2304.9.1).

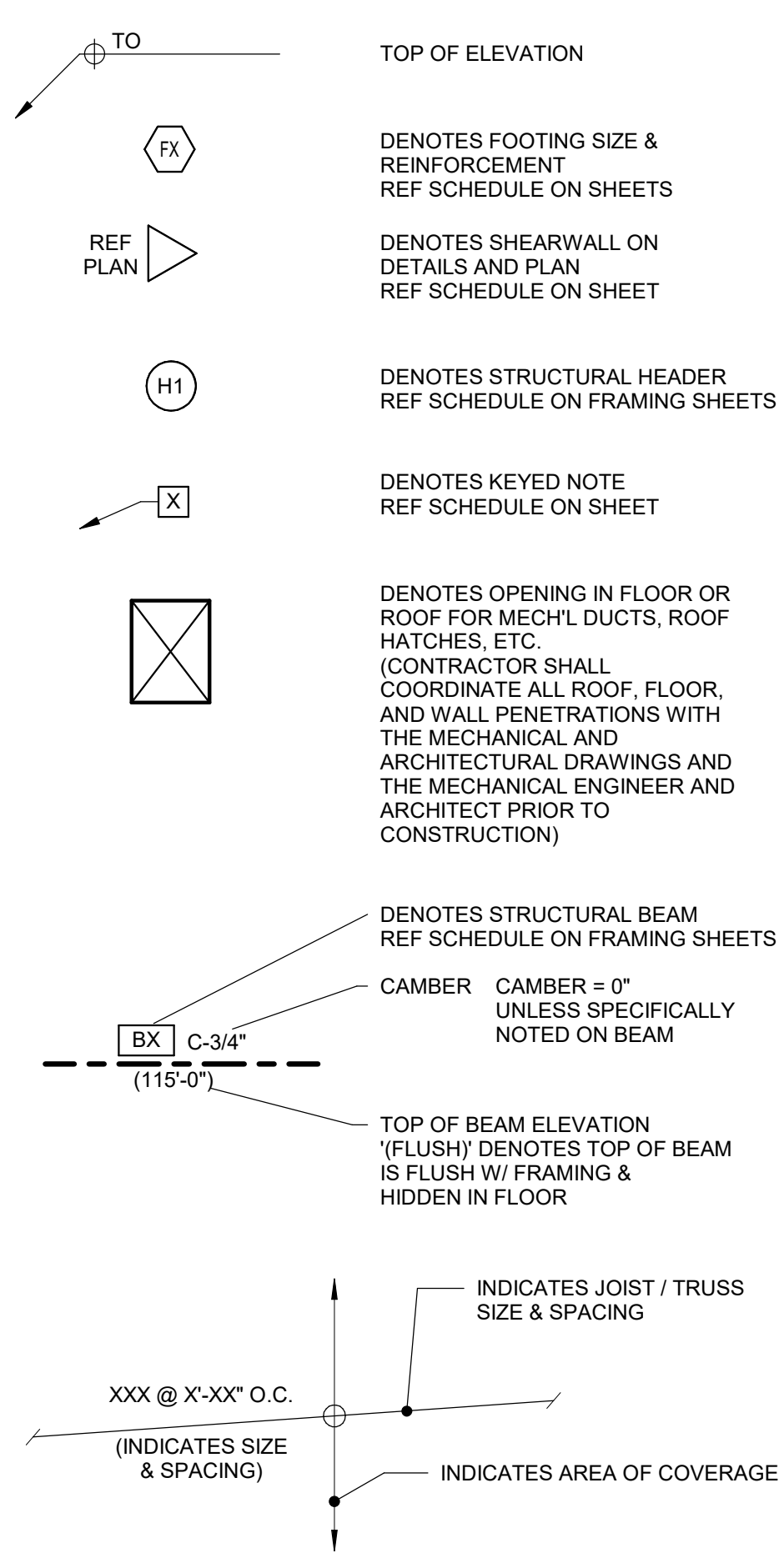
METAL CONNECTORS AND TREATED LUMBER

- A. ALL STEEL FASTENERS, ANCHORS, AND CONNECTORS (E.G. POST CAPS, POST BASES, FRAMING ANCHORS, STRAPS, NAILS, ETC.) IN CONTACT WITH TREATED LUMBER SHALL BE STAINLESS STEEL OR BATCH/POST HOT-DIP GALVANIZED (PER ASTM A123/A153).
- NOTE: THE ICB0, AND MOST TREATED WOOD CHEMICAL SUPPLIERS, HAS NOT SPECIFICALLY APPROVED SIMPSON'S ZMAX FINISH (G185 HDG PER ASTM A653). REFERENCE WWW.STRONGTIE.COM, T-PTWOOD 05 01/05. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO VERIFY ALTERNATE ACCEPTABLE FINISHES AND/OR INSTALLATION METHODS FOR SPECIFIC TREATMENT CHEMICALS WITH THE BUILDING OFFICIAL.
- B. WHEN USING STAINLESS STEEL OR HOT-DIP GALVANIZED CONNECTORS, THE CONNECTORS AND FASTENERS MUST BE MADE OF THE SAME MATERIAL.
- C. IF FASTENERS ARE NOT OF THE SAME MATERIAL, THE DISSIMILAR METALS SHALL BE SEPARATED WITH AN APPROVED NON-CORROSIVE PAINT OR SIMILAR APPROVED MATERIAL.

ABBREVIATION LIST

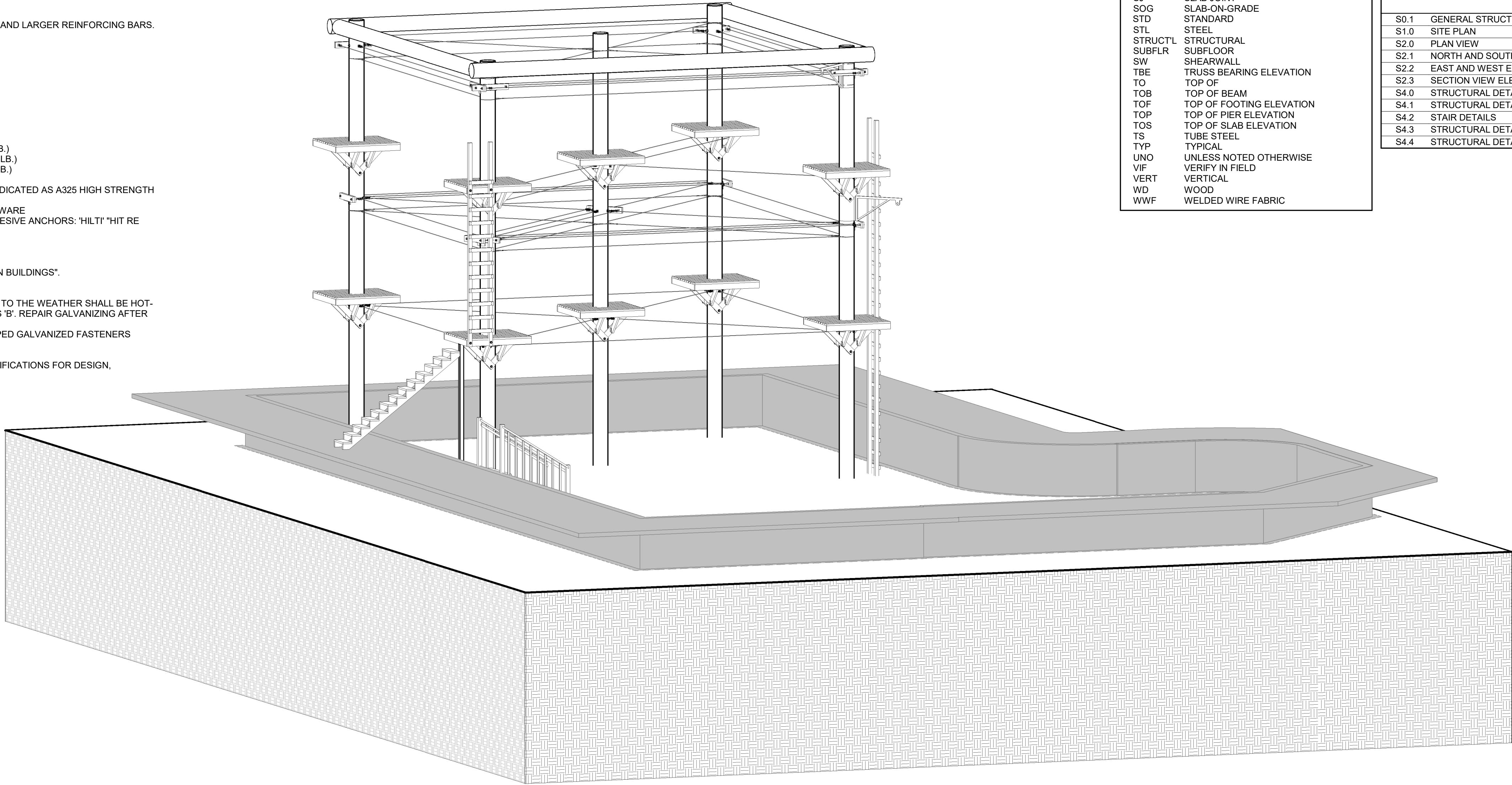
|          |                                  |
|----------|----------------------------------|
| AB       | ANCHOR BOLT                      |
| ABV      | ABOVE                            |
| ARCH'L   | ARCHITECTURAL                    |
| BD       | BOARD                            |
| BLDG     | BUILDING                         |
| BLKG     | BLACKING                         |
| BTM      | BOTTOM                           |
| BLW      | BELOW                            |
| BN       | BOUNDARY NAILING                 |
| BRG      | BEARING                          |
| BTWN     | BETWEEN                          |
| CANT     | CANTILEVER                       |
| CIP      | CAST-IN-PLACE                    |
| CMU      | CONCRETE MASONRY UNITS           |
| CL       | CENTERLINE                       |
| CLR      | CLEAR                            |
| CLSM     | CONTROLLED LOW-STRENGTH MATERIAL |
| COL      | COLUMN                           |
| CONC     | CONCRETE                         |
| CP       | CONCRETE PIER                    |
| DJ       | DECK JOIST                       |
| DP       | DEEP                             |
| DBL      | DOUBLE                           |
| EN       | EDGE NAILING                     |
| EA       | EACH                             |
| EW       | EACH WAY                         |
| ELEV     | ELEVATION                        |
| (E)      | EXISTING                         |
| FLR      | FLOOR                            |
| FJ       | FLOOR JOIST                      |
| FND      | FOUNDATION                       |
| FTG      | FOOTING                          |
| FW       | FOUNDATION WALL                  |
| GC       | GENERAL CONTRACTOR               |
| GA       | GAUGE                            |
| GLB      | GLULAM BEAM                      |
| GN       | GENERAL NOTES                    |
| GT       | GIRDER TRUSS                     |
| GYP      | GYPSON                           |
| HAS      | HEADED ANCHOR STUD               |
| HAB      | HEADED ANCHOR BOLT               |
| HORIZ    | HORIZONTAL                       |
| HSS      | HOLLOW STEEL SECTION             |
| KB       | KNEE BRACE                       |
| MFR      | MANUFACTURER                     |
| MIN      | MINIMUM                          |
| MECH'L   | MECHANICAL                       |
| NTS      | NOT TO SCALE                     |
| (N)      | NEW                              |
| (NS)     | NON-STRUCTURAL                   |
| OC       | ON CENTER                        |
| OH       | OVERHANG                         |
| OSB      | ORIENTED STRAND BOARD            |
| OP'NG    | OPENING                          |
| OPP      | OPPOSITE                         |
| PAF      | POWDER ACTUATED FASTENER         |
| PL       | PLATE                            |
| PLYWD    | PLYWOOD                          |
| RAD      | RADIUS                           |
| REF      | REFERENCE                        |
| REIN'    | REINFORCEMENT                    |
| REQ'D    | REQUIRED                         |
| RR       | ROOF RAFTER                      |
| SHTG     | SHEATHING                        |
| SIM      | SIMILAR                          |
| SJ       | SLAB JOINT                       |
| SOG      | SLAB-ON-GRADE                    |
| STD      | STANDARD                         |
| STL      | STEEL                            |
| STRUCT'L | STRUCTURAL                       |
| SUBFLR   | SUBFLOOR                         |
| SW       | SHEARWALL                        |
| TBE      | TRUSS BEARING ELEVATION          |
| TO       | TOP OF                           |
| TOB      | TOP OF BEAM                      |
| TOF      | TOP OF FOOTING ELEVATION         |
| TOS      | TOP OF PIER ELEVATION            |
| TOP      | TOP OF SLAB ELEVATION            |
| TS       | TUBE STEEL                       |
| TYP      | TYPICAL                          |
| UNO      | UNLESS NOTED OTHERWISE           |
| VIF      | VERIFY IN FIELD                  |
| VERT     | VERTICAL                         |
| WD       | WOOD                             |
| WWF      | WELDED WIRE FABRIC               |

PLAN LEGEND



SHEET LIST

|      |                                |
|------|--------------------------------|
| S0.1 | GENERAL STRUCTURAL NOTES & SIS |
| S1.0 | SITE PLAN                      |
| S2.0 | PLAN VIEW                      |
| S2.1 | NORTH AND SOUTH ELEVATIONS     |
| S2.2 | EAST AND WEST ELEVATIONS       |
| S2.3 | SECTION VIEW ELEVATION         |
| S4.0 | STRUCTURAL DETAILS             |
| S4.1 | STRUCTURAL DETAILS             |
| S4.2 | STAIR DETAILS                  |
| S4.3 | STRUCTURAL DETAILS             |
| S4.4 | STRUCTURAL DETAILS             |



5 POLE ROPES COURSE  
DC SPORTS  
1630 US-9  
WAPPINGERS FALLS, NY 12590

REVISIONS

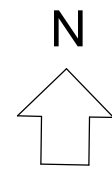
GENERAL STRUCTURAL NOTES & SIS

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DRAWN BY: MM  
DATE: 02.14.2024  
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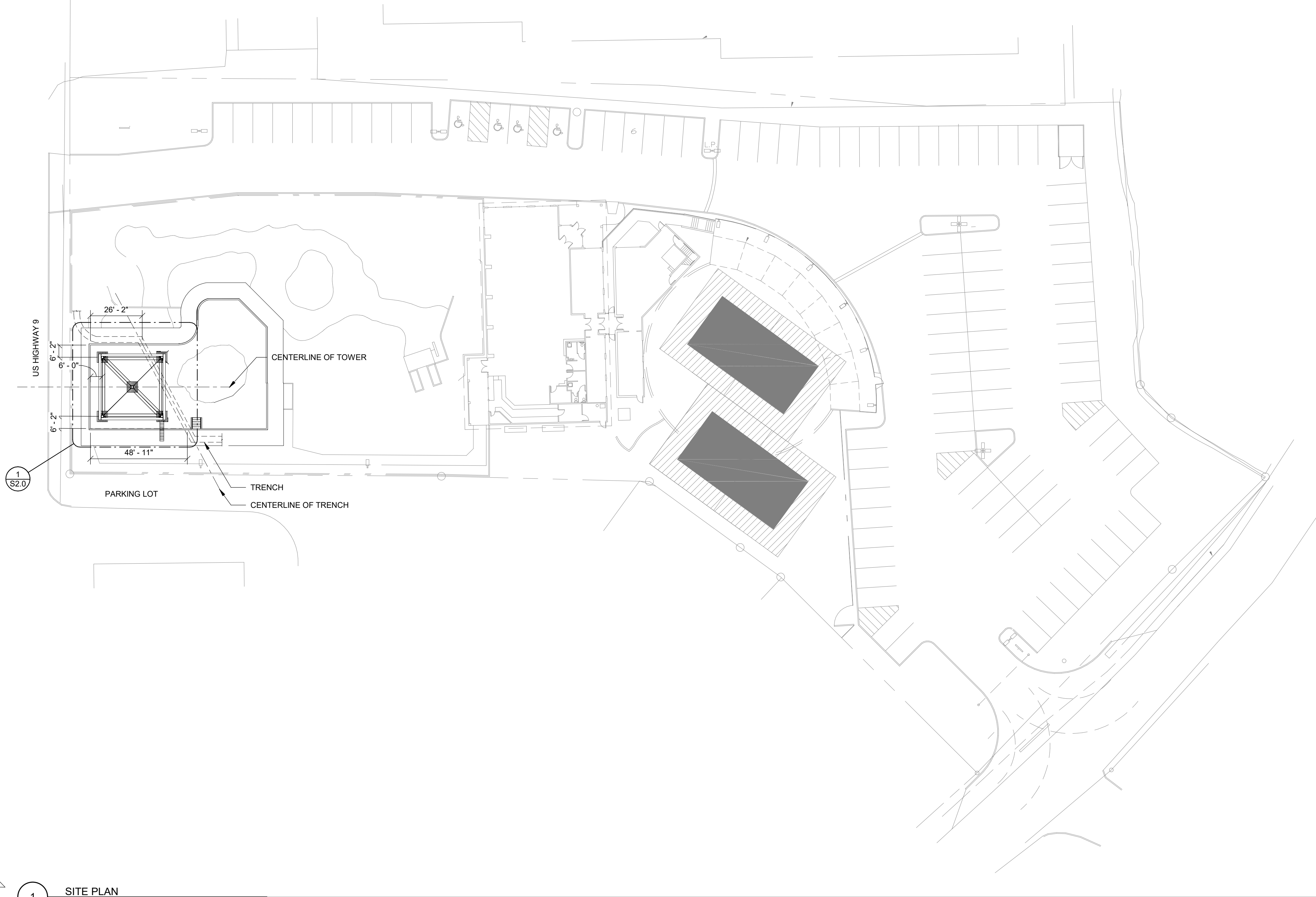
S0.1

PERMIT SET





1 SITE PLAN  
SCALE: 1" = 30'-0"



PERMIT SET

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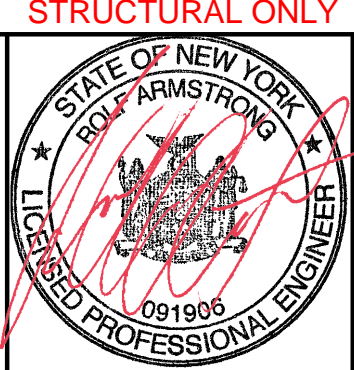
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SITE PLAN

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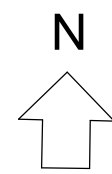
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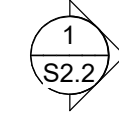
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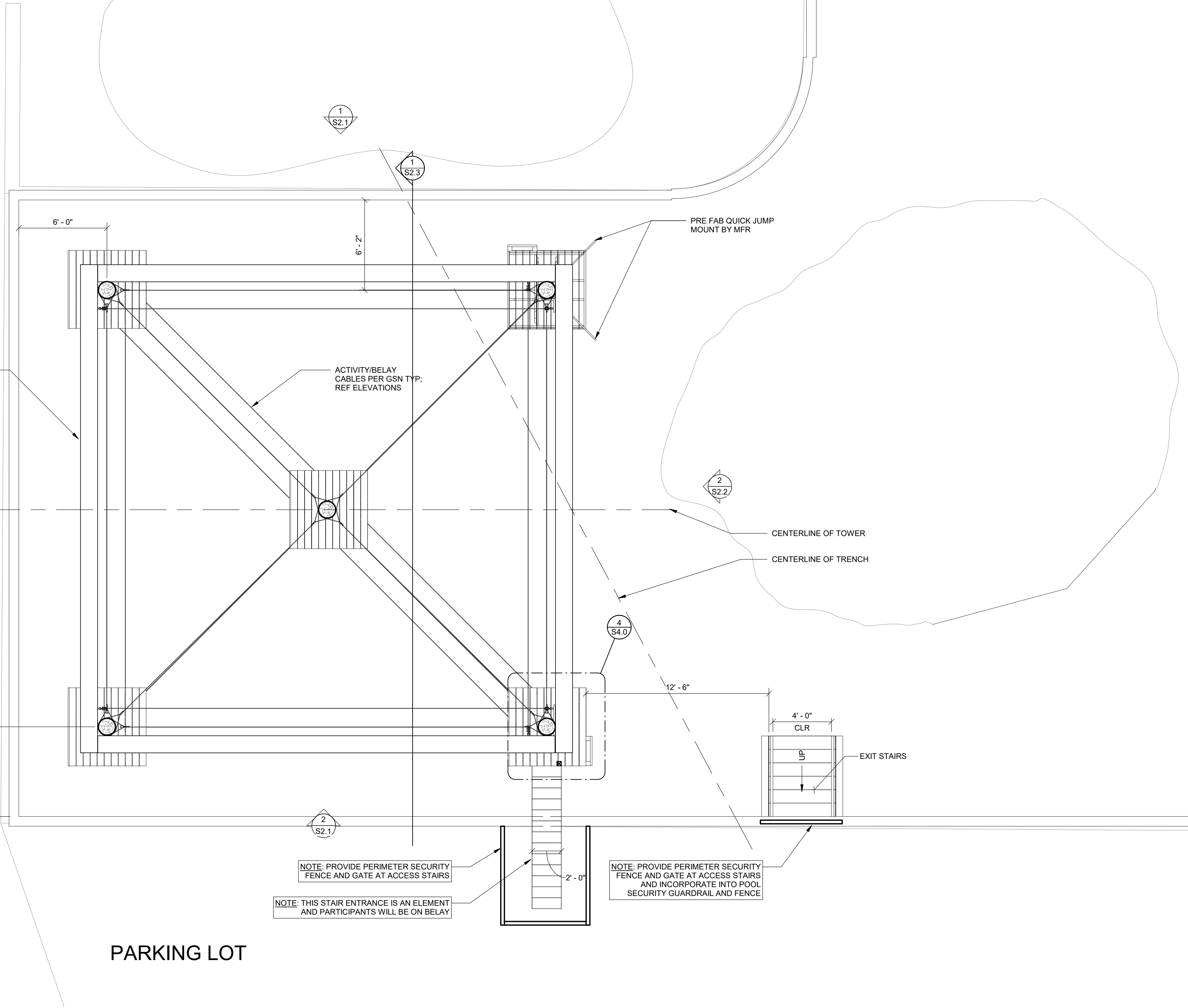
1 PLAN VIEW  
SCALE: 1/4" = 1'-0"

US HIGHWAY 9



8" MIN LOG CROSS BEAMS

6' - 2"

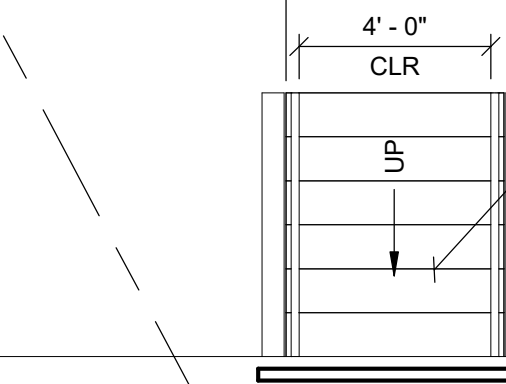


PARKING LOT

NOTE: THIS STAIR ENTRANCE IS AN ELEMENT AND PARTICIPANTS WILL BE ON BELAY

NOTE: PROVIDE PERIMETER SECURITY FENCE AND GATE AT ACCESS STAIRS

NOTE: PROVIDE PERIMETER SECURITY FENCE AND GATE AT ACCESS STAIRS AND INCORPORATE INTO POOL SECURITY GUARDRAIL AND FENCE



EXIT STAIRS

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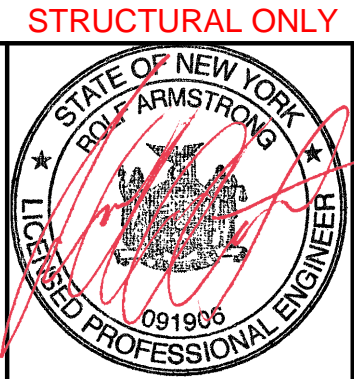
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PLAN VIEW

| REVISIONS |  |
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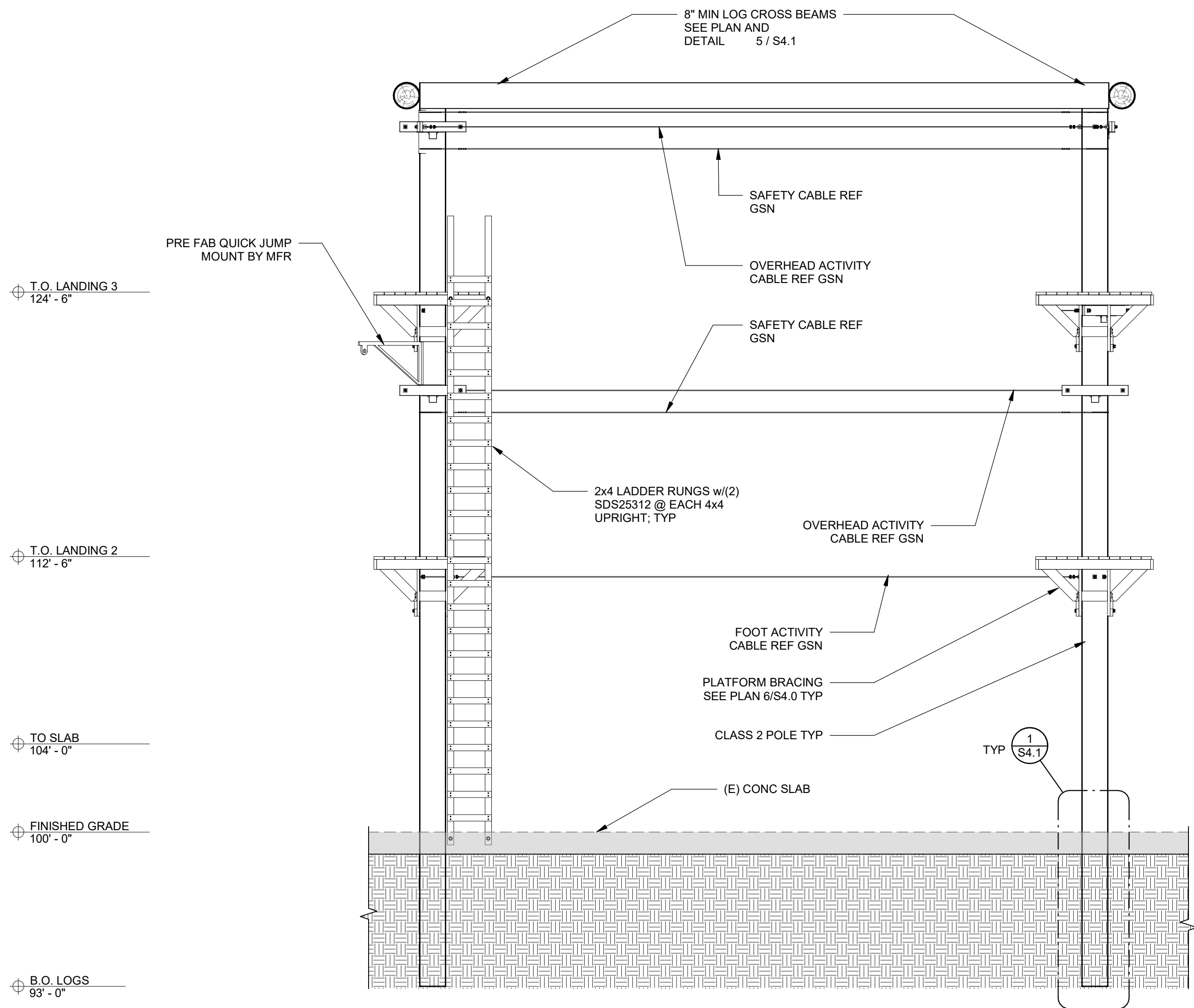
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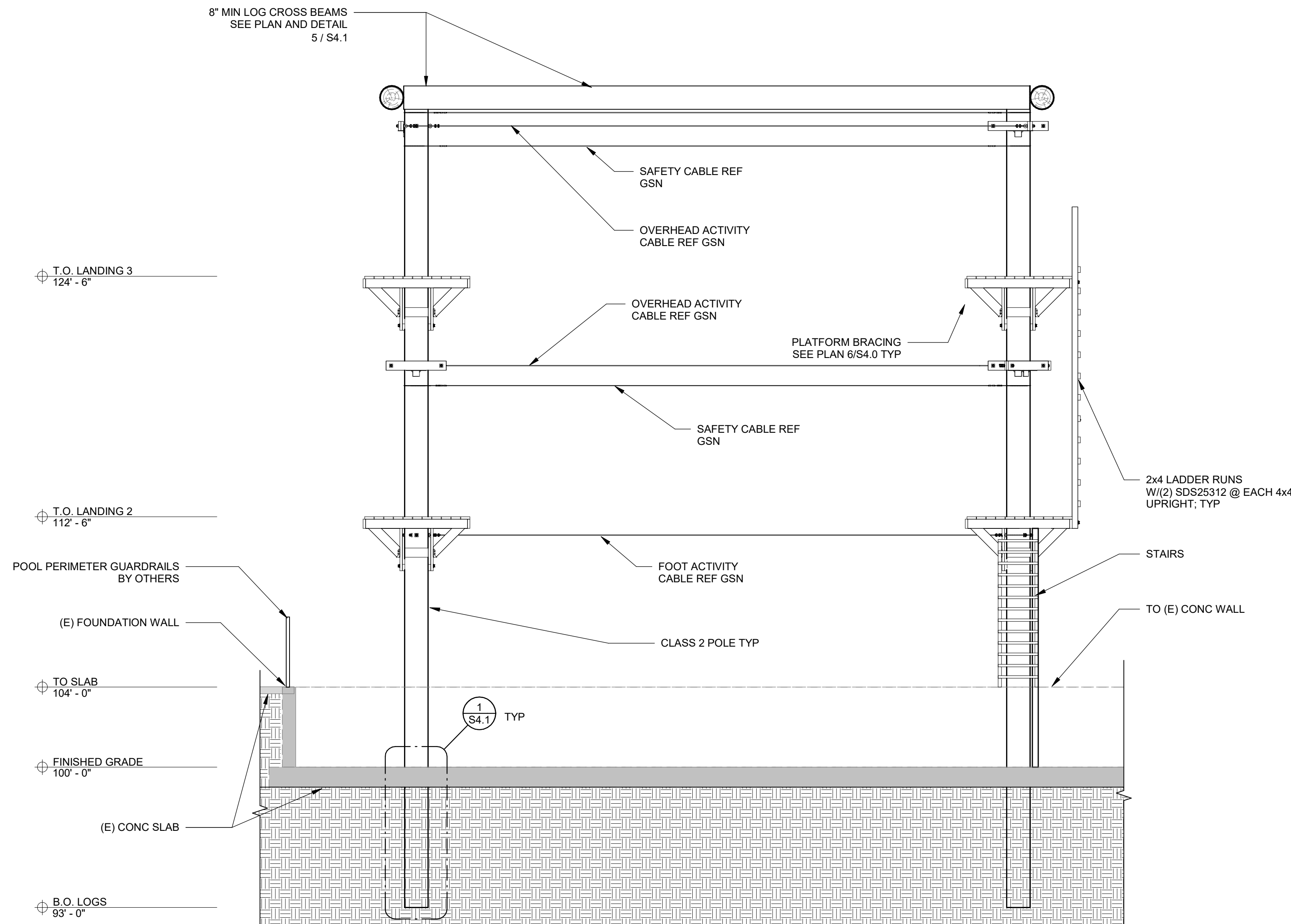


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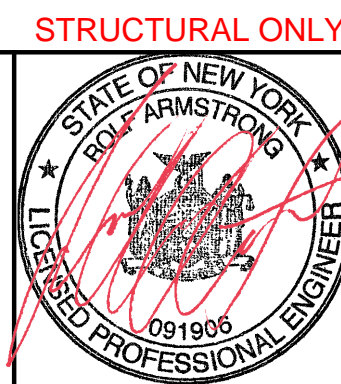


1 NORTH ELEVATION  
SCALE: 1/4" = 1'-0"



2 SOUTH ELEVATION  
SCALE: 1/4" = 1'-0"

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REVISIONS

NORTH AND SOUTH ELEVATIONS

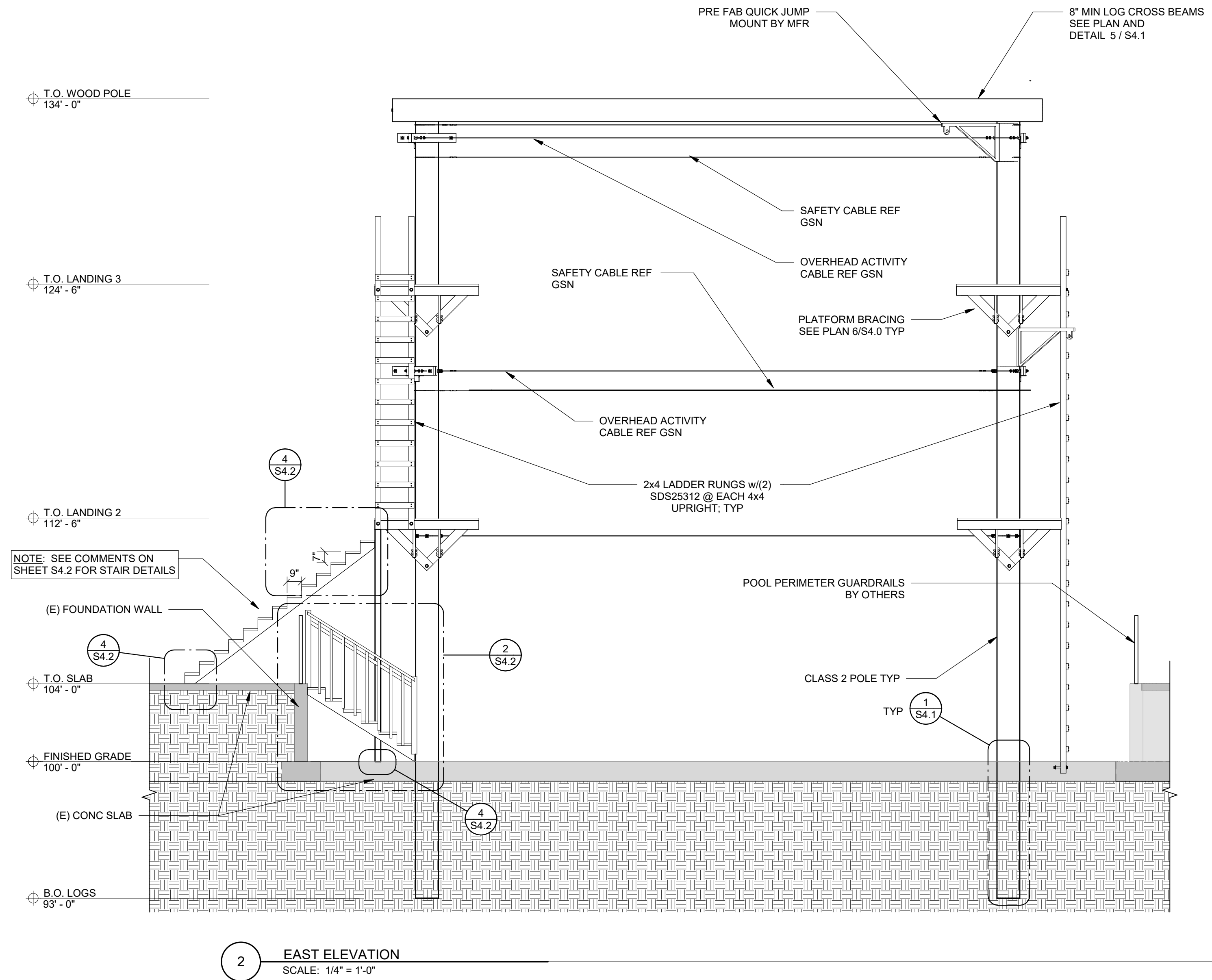
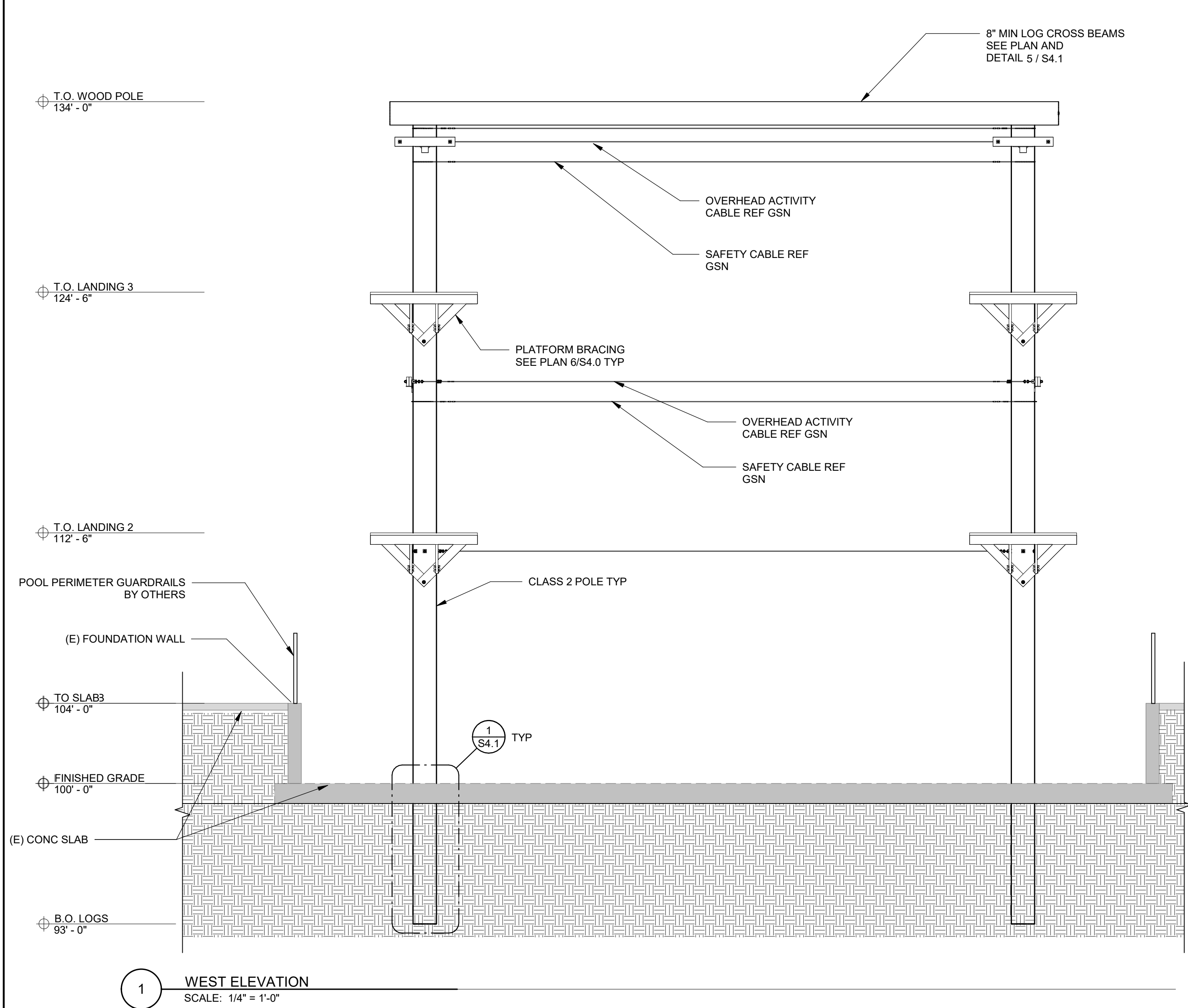
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S2.1

PERMIT SET



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SHEET

EAST AND WEST ELEVATIONS

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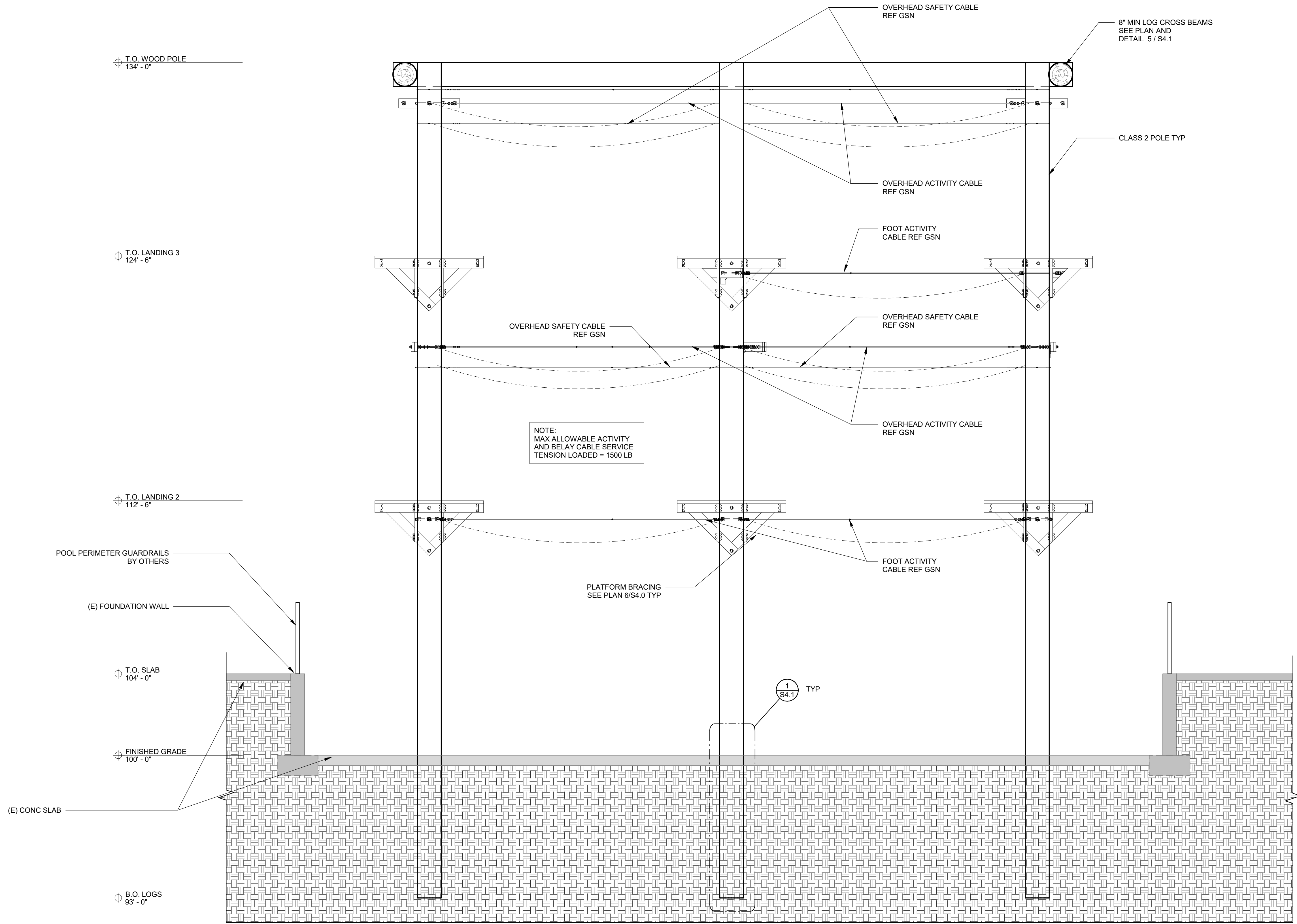
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S2.2

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

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| REVISIONS |  |
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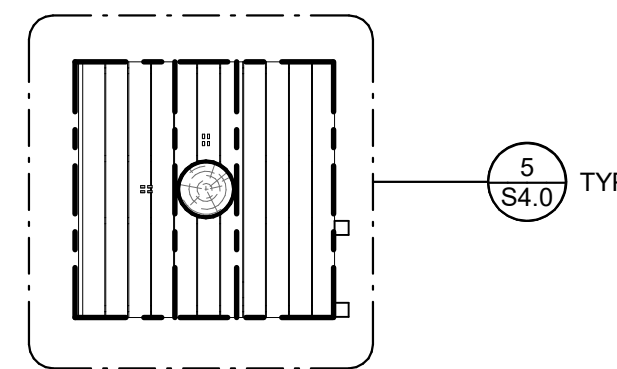
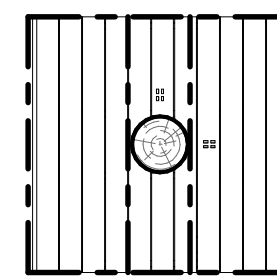
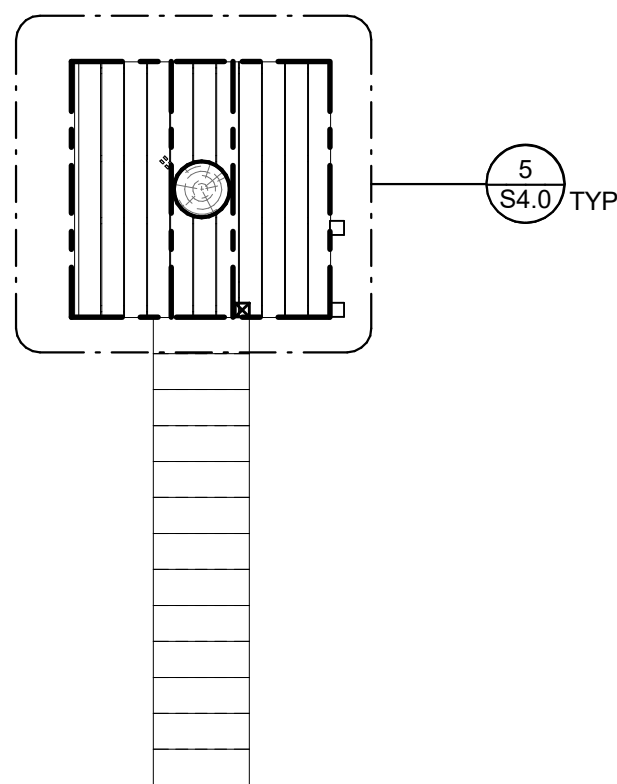
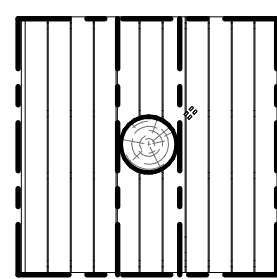
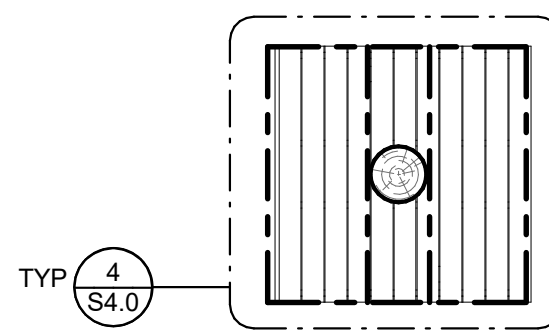
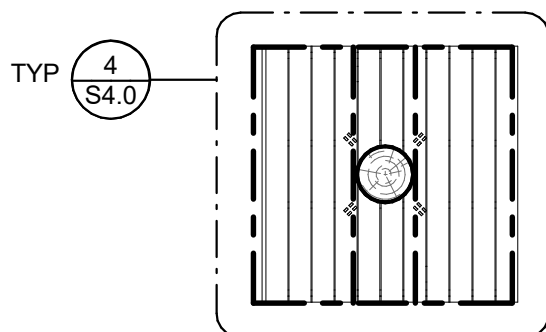
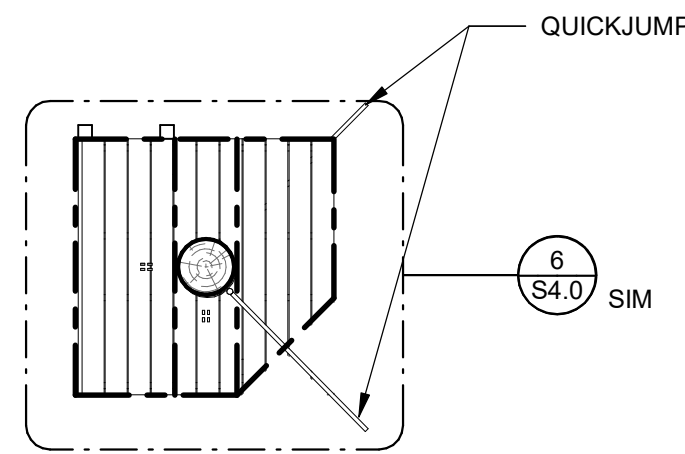
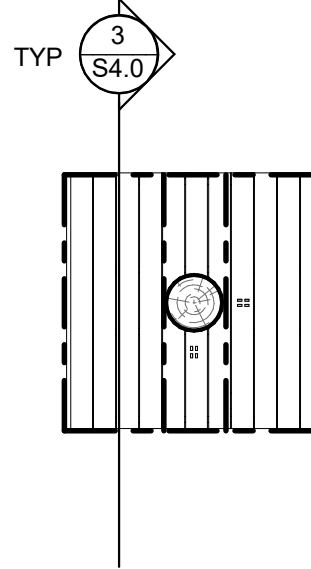
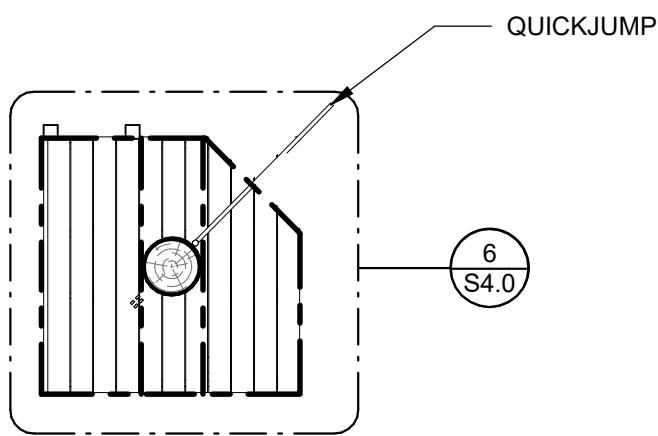
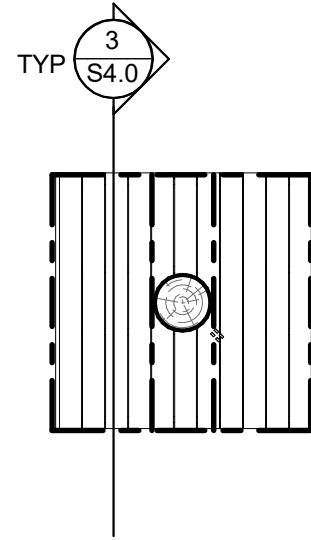
SECTION VIEW ELEVATION

|             |            |
|-------------|------------|
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S2.3

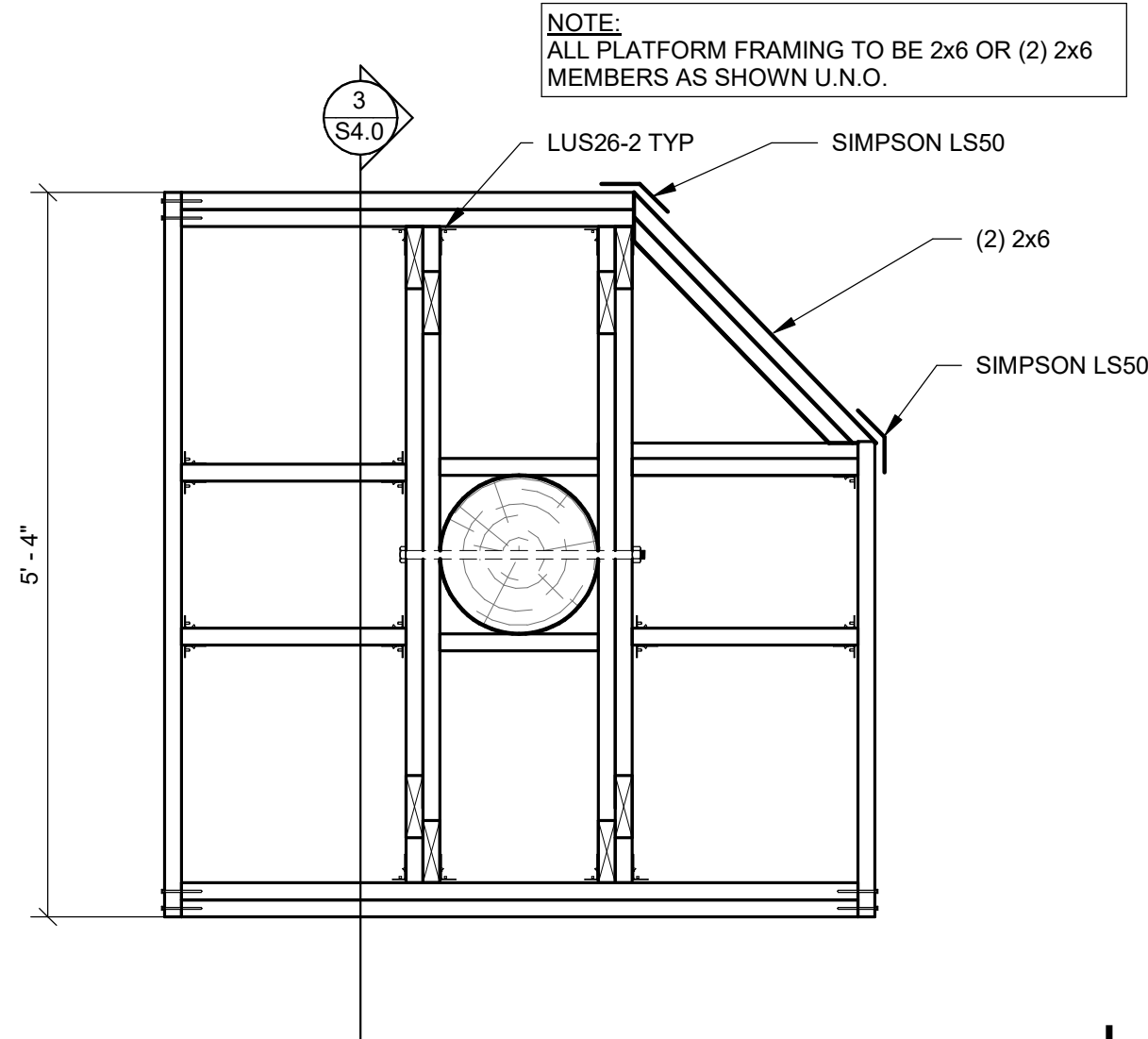
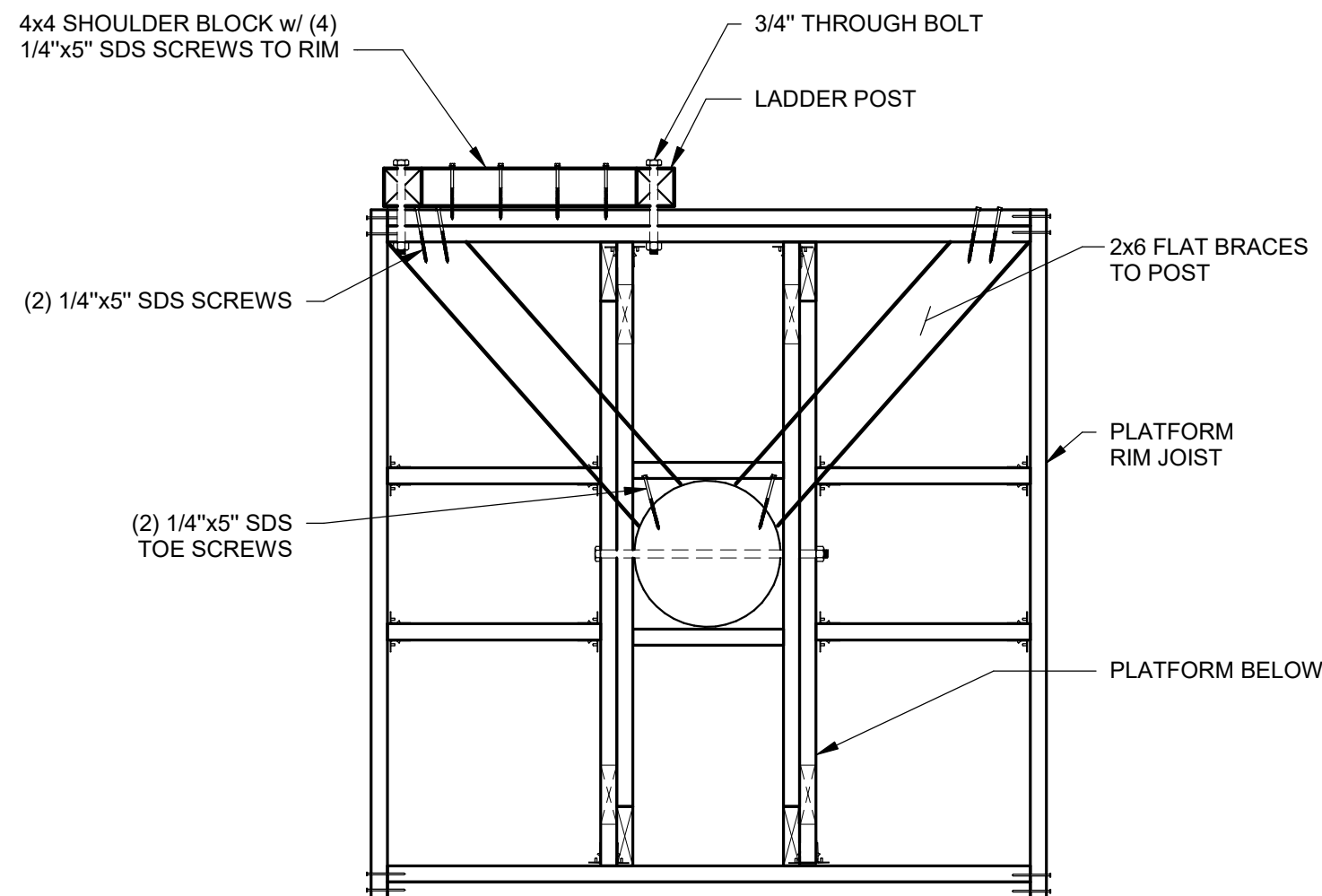
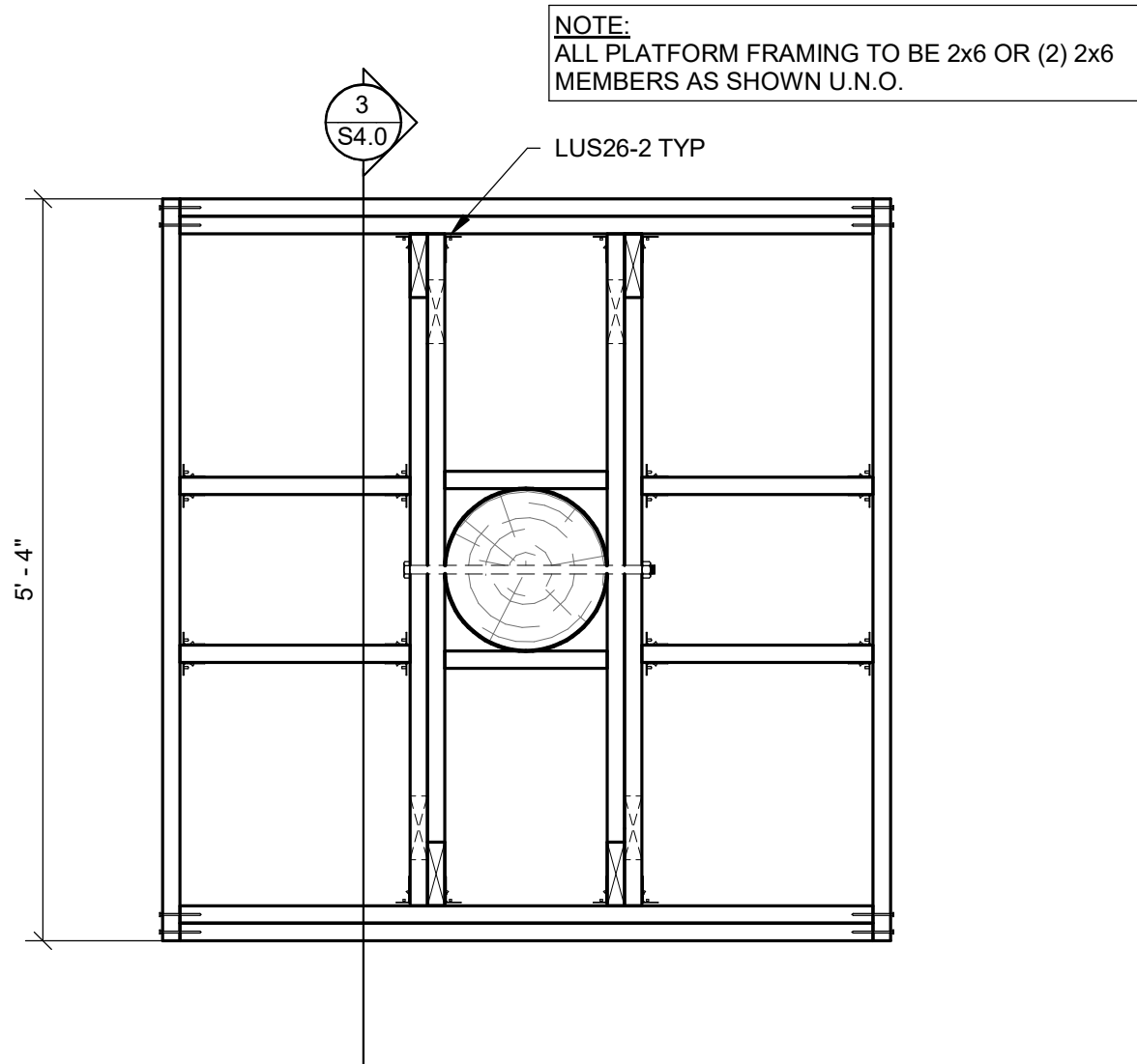
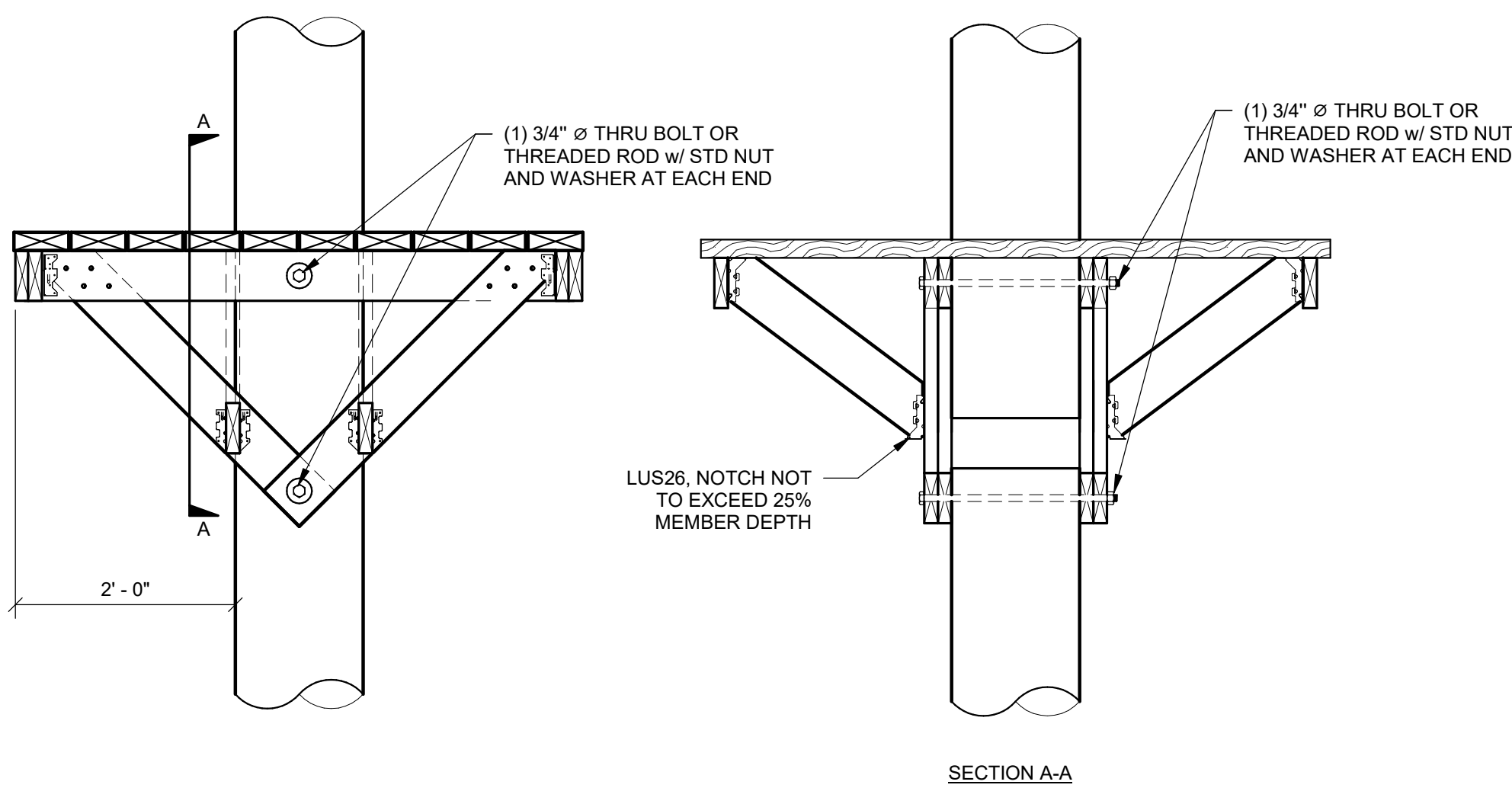
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1 T.O. LANDING 2 - 112'-6"  
SCALE: 1/4" = 1'-0"

2 T.O. LANDING 3 - ELEV 124'-6"  
SCALE: 1/4" = 1'-0"



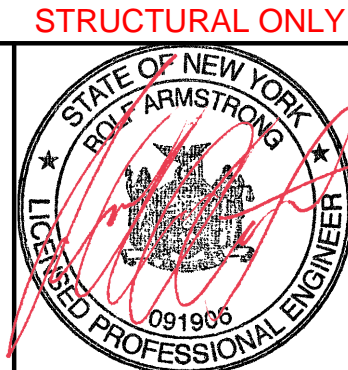
3 TYPICAL PLATFORM BRACING  
SCALE: 3/4" = 1'-0"

4 TYPICAL ENLARGED PLATFORM FRAMING PLAN  
SCALE: 3/4" = 1'-0"

5 PLATFORM AT LADDER SUPPORT  
SCALE: 3/4" = 1'-0"

6 TYPICAL PLATFORM WITH CLIPPED CORNER  
SCALE: 3/4" = 1'-0"

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5 POLE ROPES COURSE  
DC SPORTS  
1630 US-9  
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REVISIONS

STRUCTURAL DETAILS

PROJ. #: 23-12-045  
CHECKED BY: RHA  
DRAWN BY: MM  
DATE: 02.14.2024  
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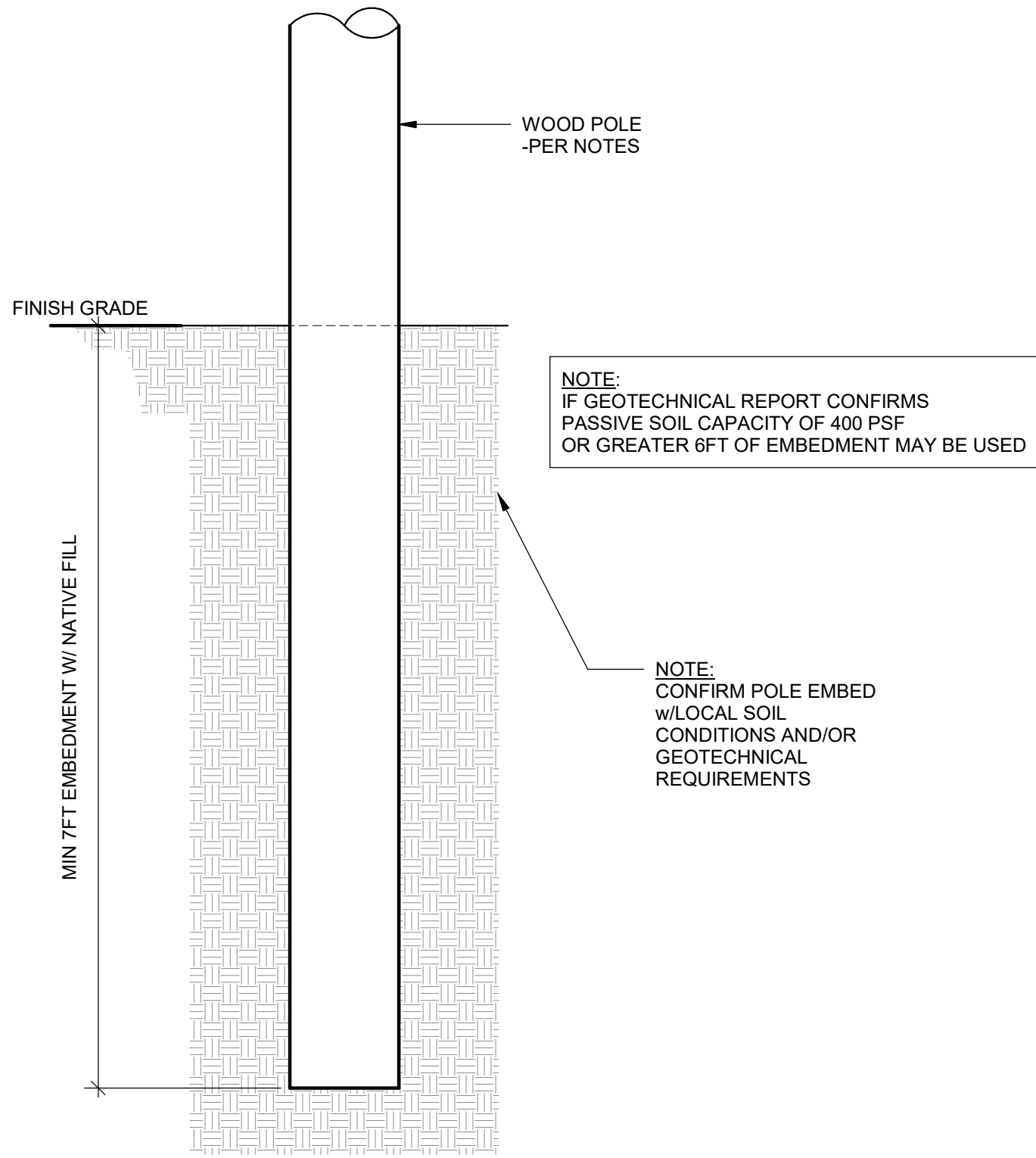
PERMIT SET

S4.0

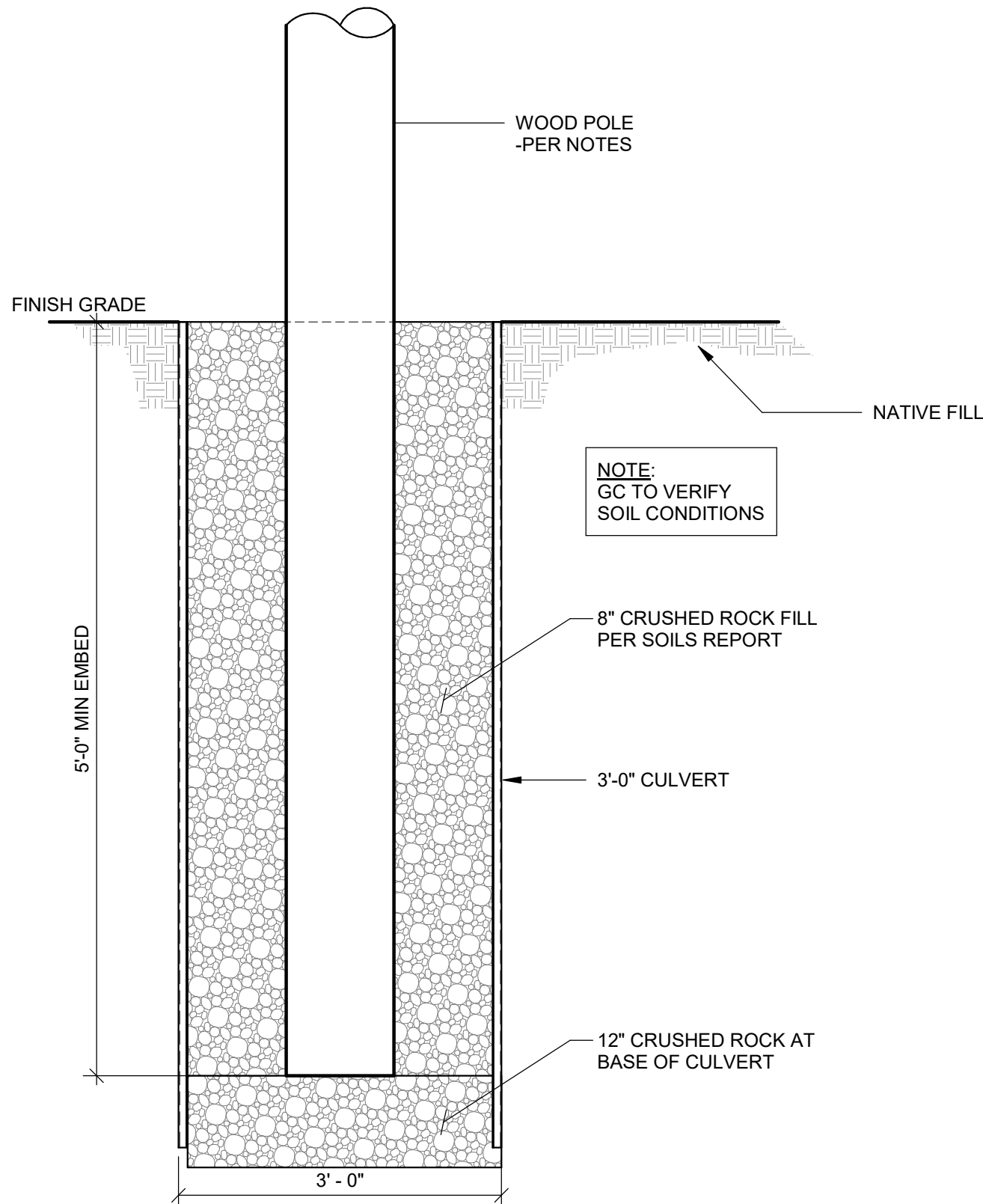


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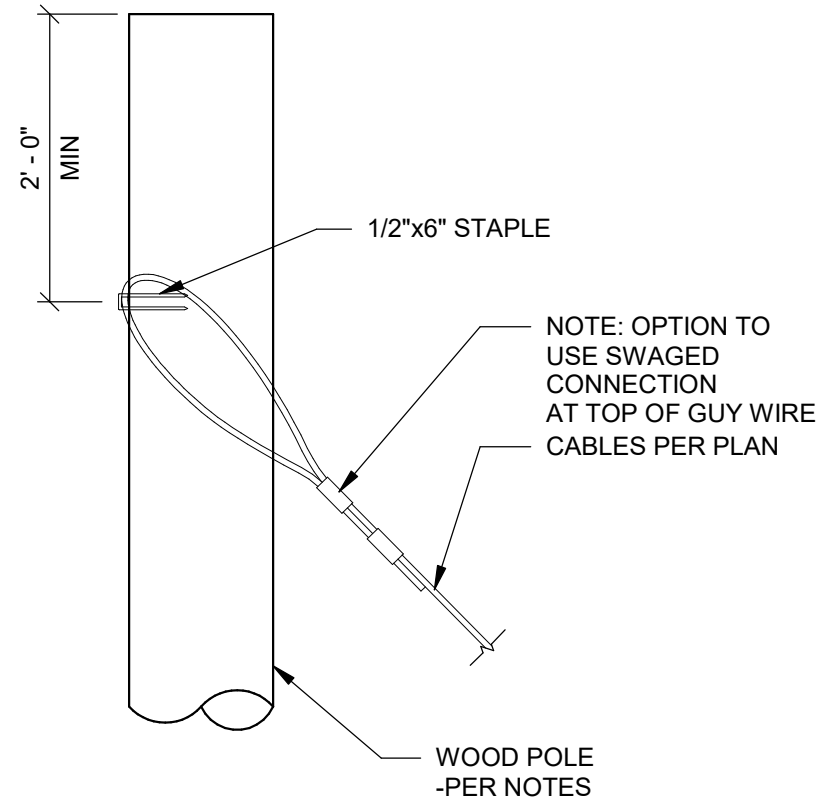
1 PIER FOUNDATION DETAIL  
SCALE: 3/4" = 1'-0"



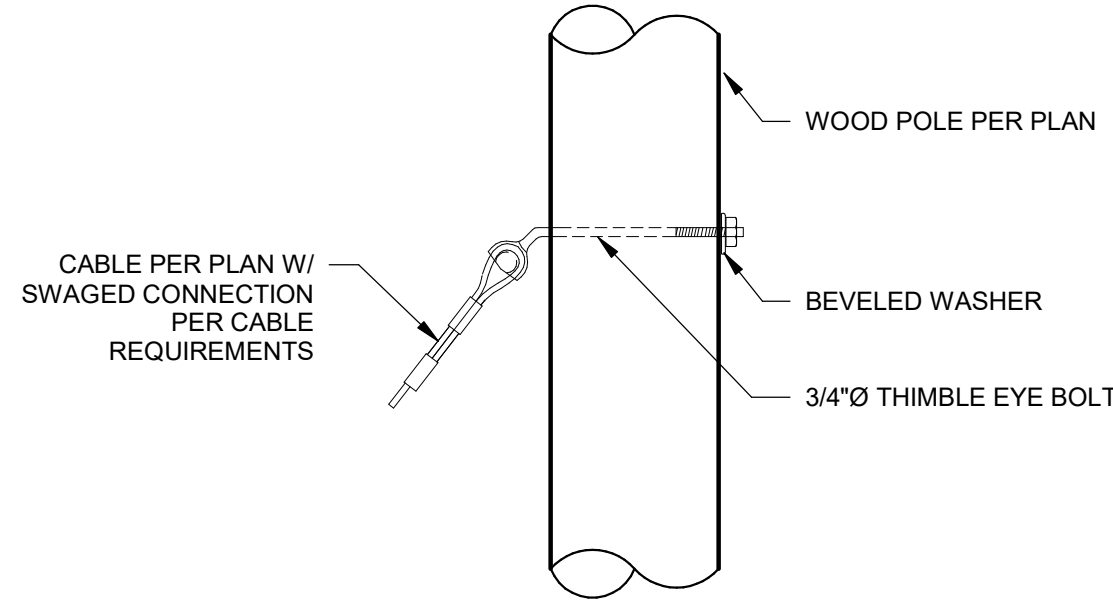
2 OPTIONAL CULVERT FOUNDATION DETAIL FOR POOL CONDITIONS  
SCALE: 3/4" = 1'-0"



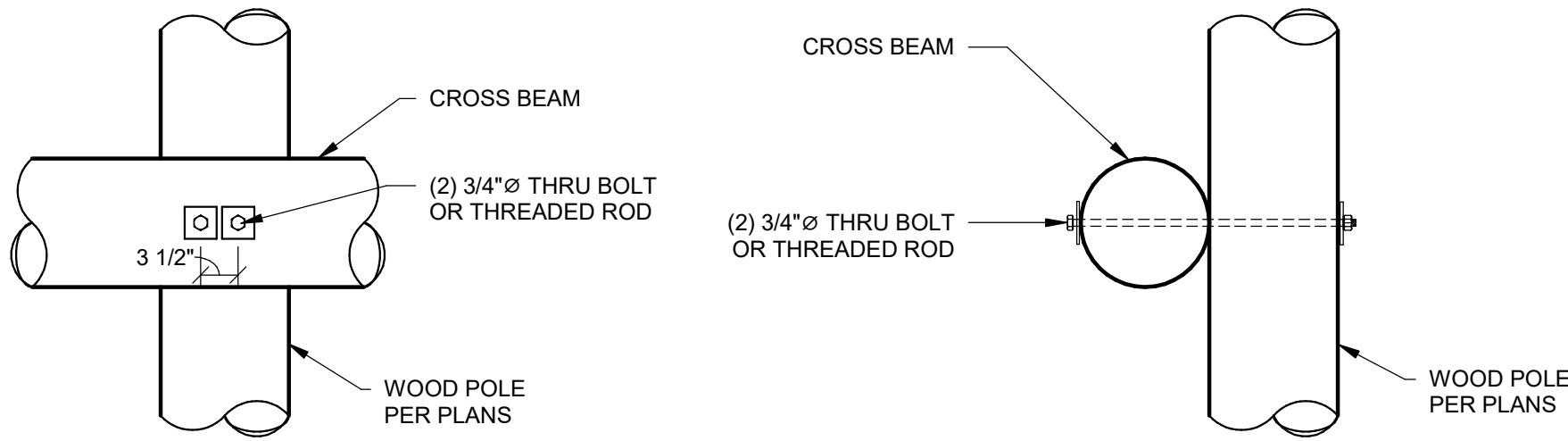
3 GUY LINE DETAIL  
SCALE: 3/4" = 1'-0"



4 GUY CABLE POLE ATTACHMENT  
SCALE: 3/4" = 1'-0"



5 HORIZONTAL POLE ELEMENT TO WOOD POLE CONNECTION  
SCALE: 3/4" = 1'-0"



PERMIT SET

STRUCTURAL DETAILS

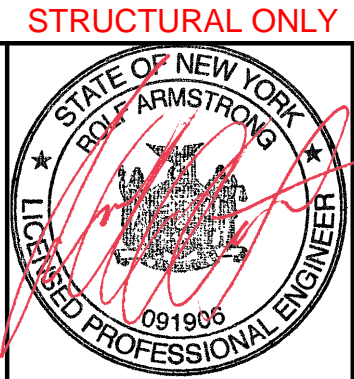
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| DRAWN BY:   | MM         |
| DATE:       | 02.14.2024 |
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S4.1

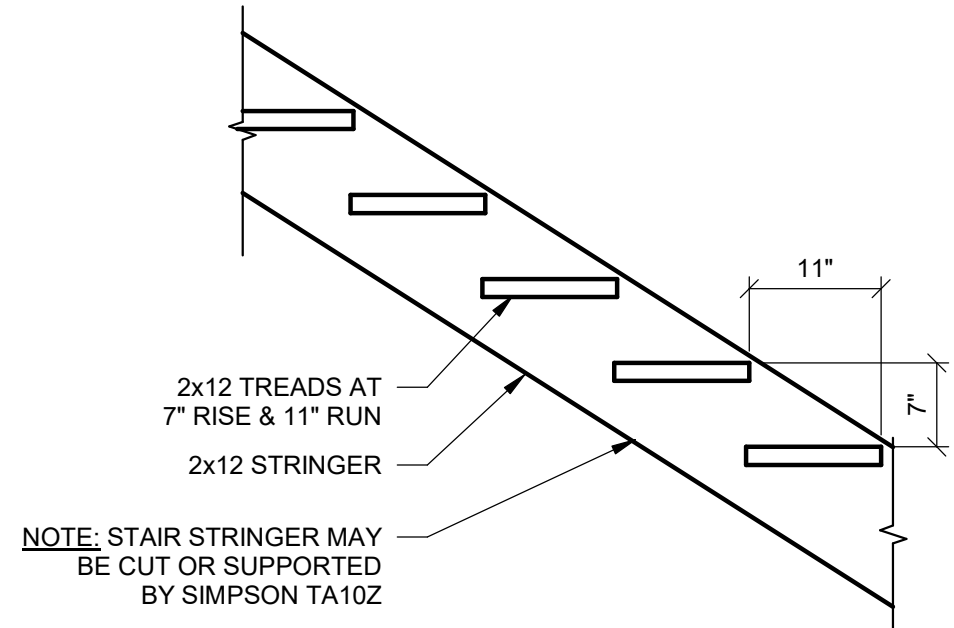
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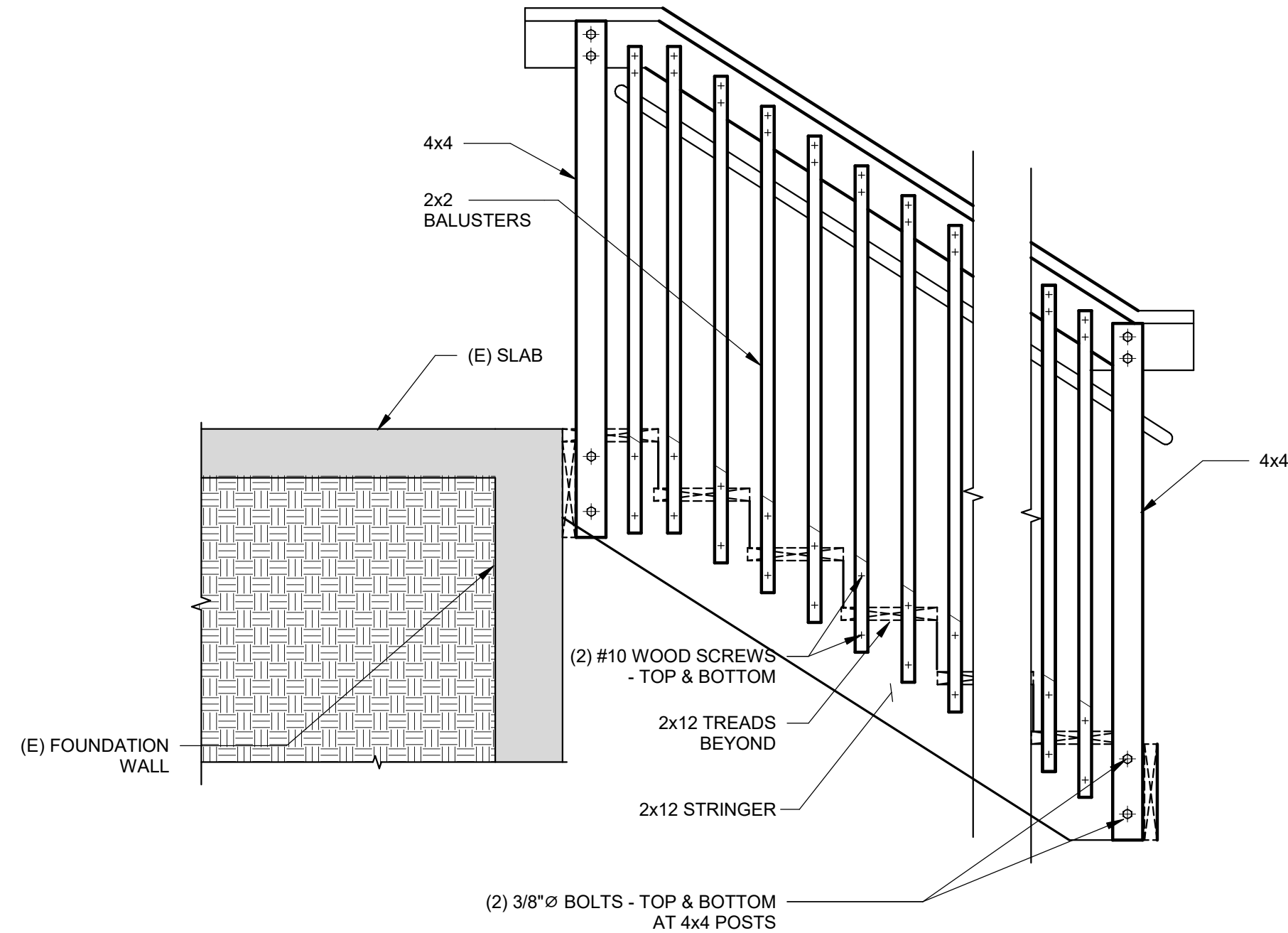
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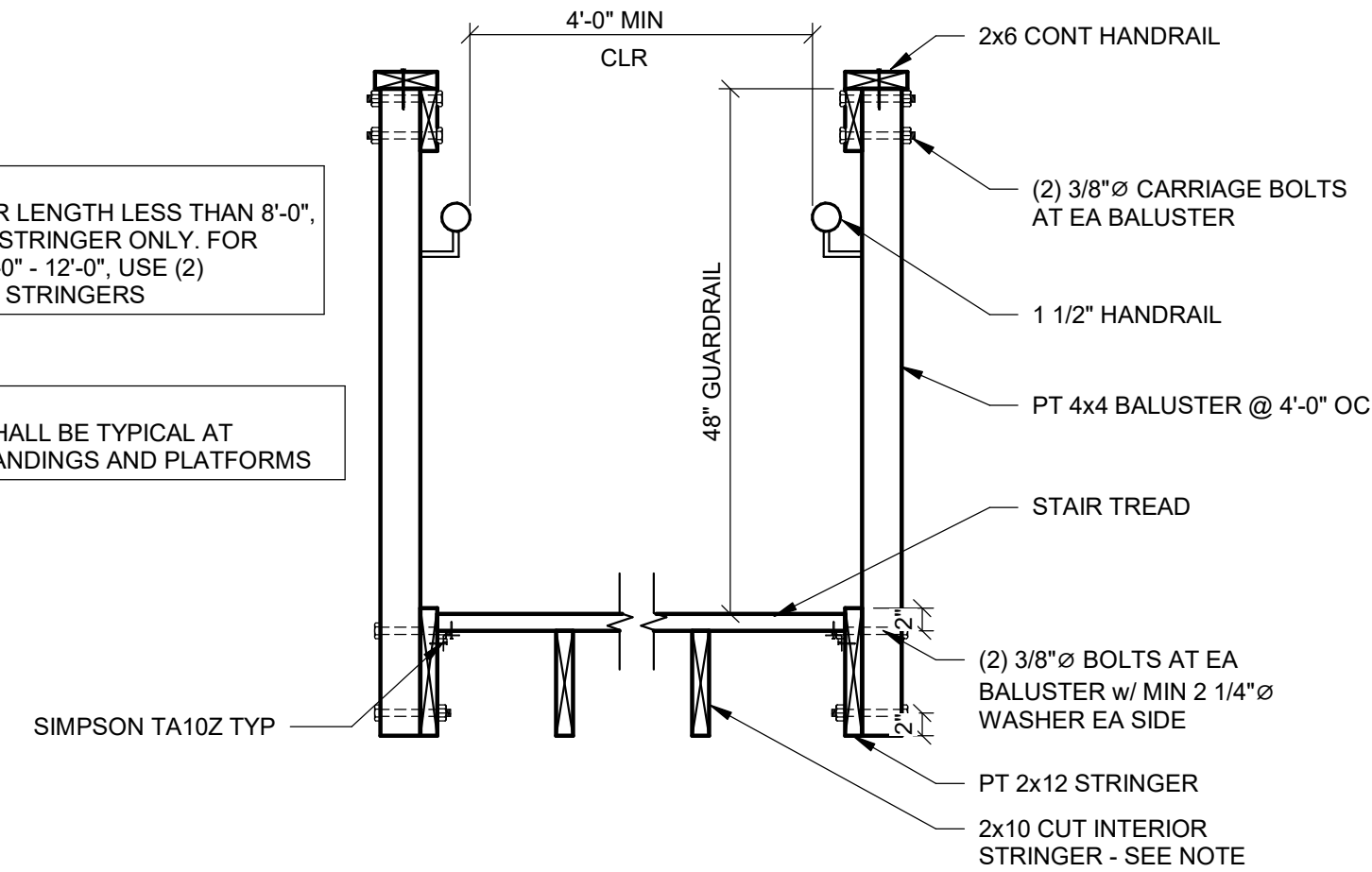
1 STAIRS TREAD DETAIL  
SCALE: 3/4" = 1'-0"



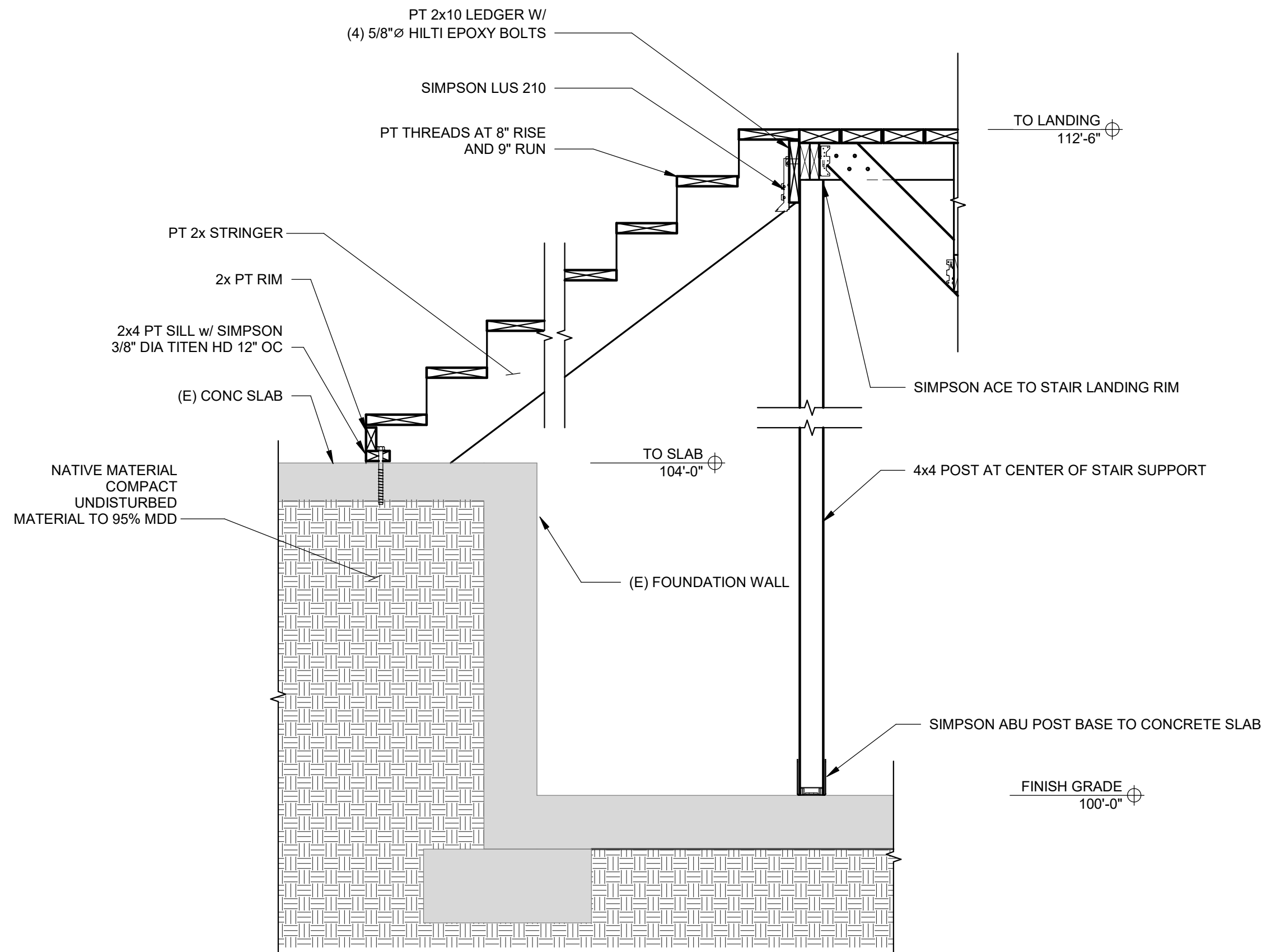
2 STAIRS AND GUARDRAIL DETAIL  
SCALE: 3/4" = 1'-0"

NOTE:  
FOR STRINGER LENGTH LESS THAN 8'-0",  
USE OUTSIDE STRINGER ONLY. FOR  
STRINGERS 8'-0" - 12'-0", USE (2)  
INTERIOR CUT STRINGERS

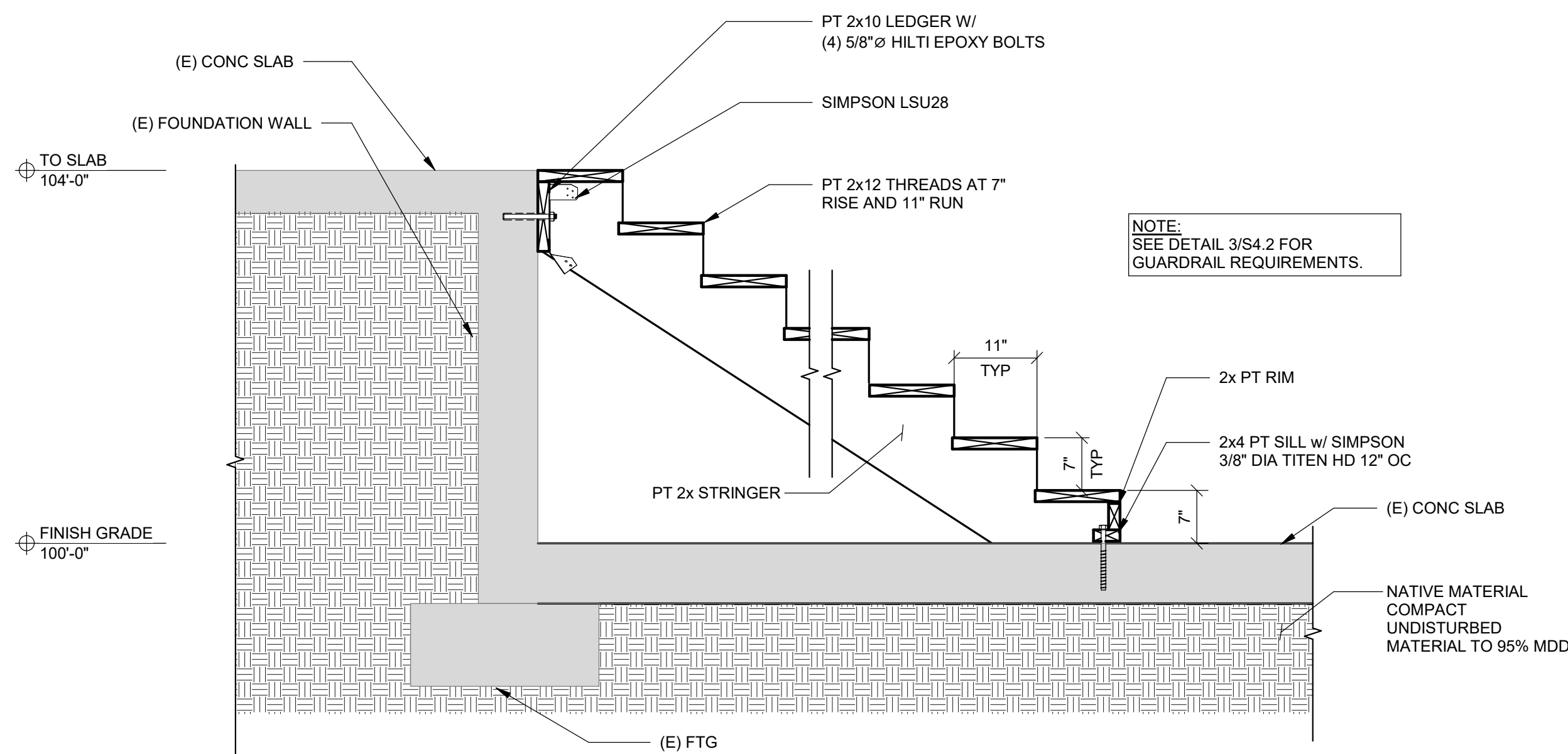
NOTE:  
GUARDRAIL SHALL BE TYPICAL AT  
ALL STAIRS, LANDINGS AND PLATFORMS



3 GUARDRAIL SECTION DETAIL  
SCALE: 3/4" = 1'-0"



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



5 CODE COMPLIANT STAIRS  
SCALE: 3/4" = 1'-0"

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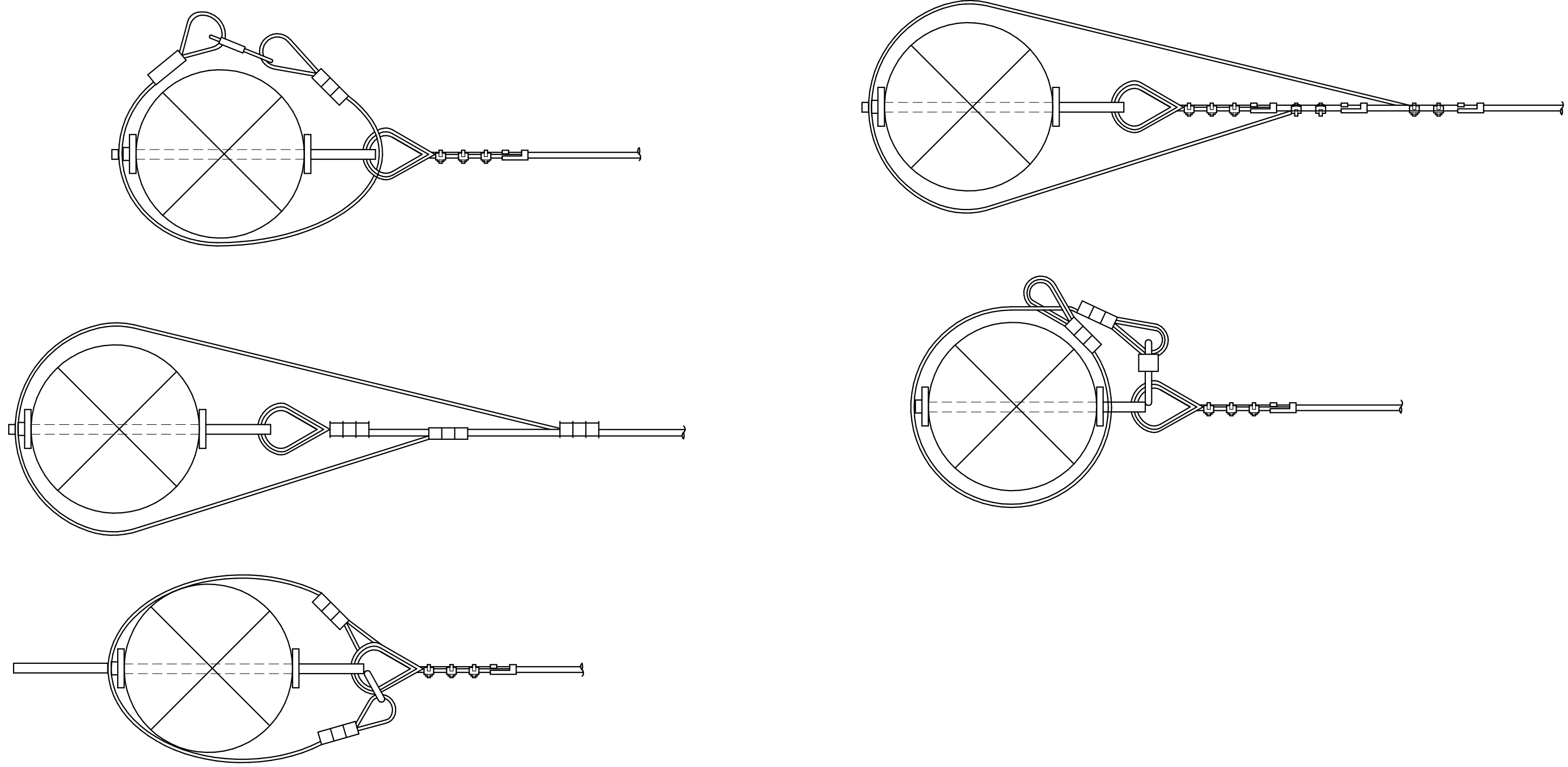
REVISIONS

STAIR DETAILS

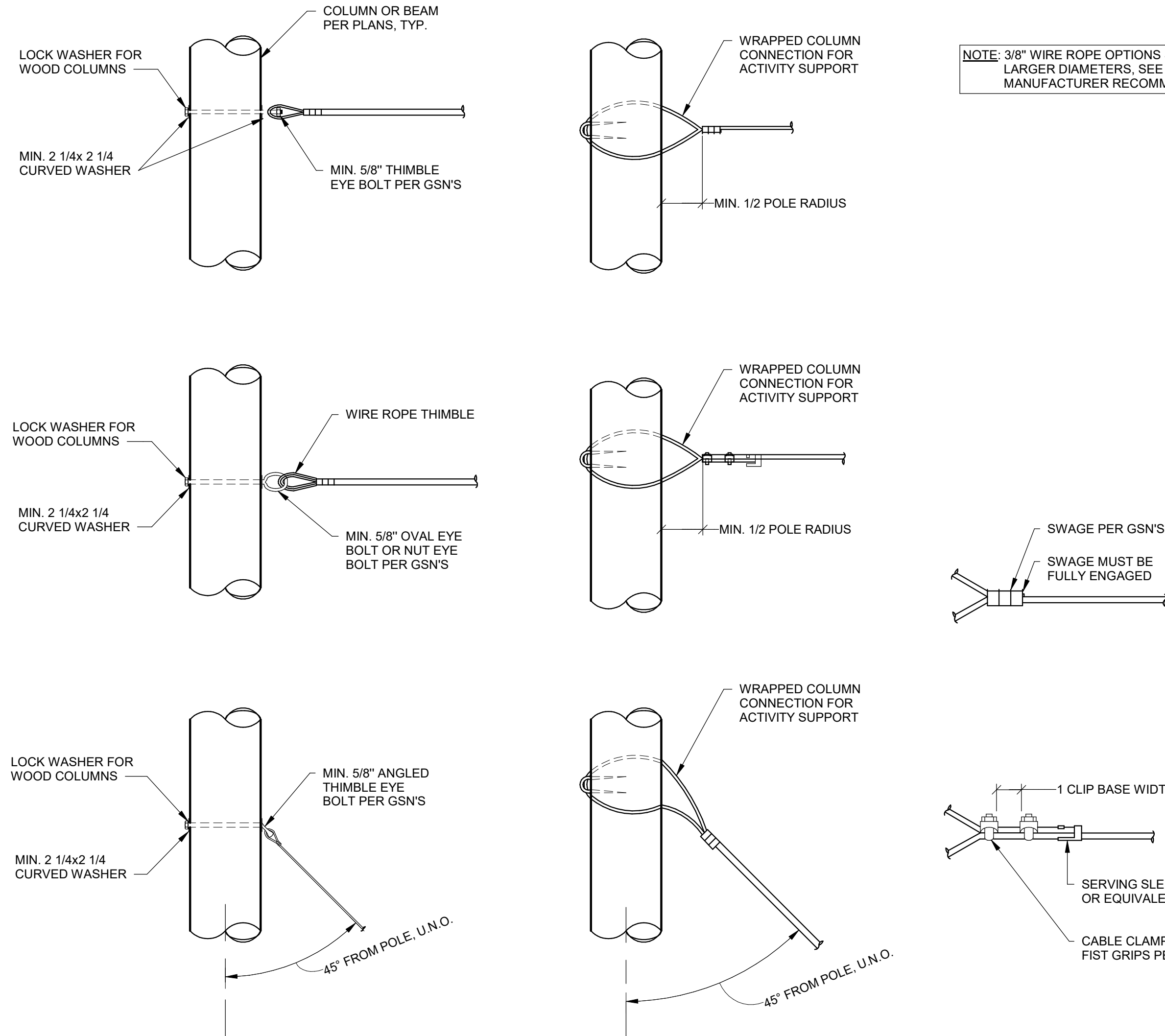
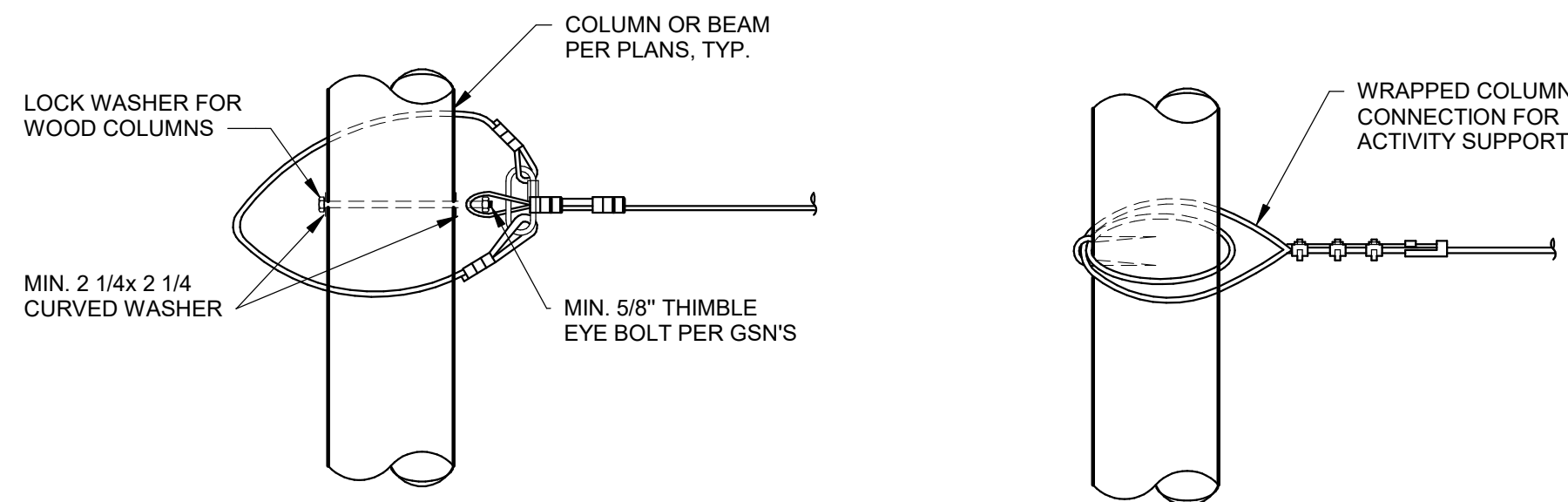
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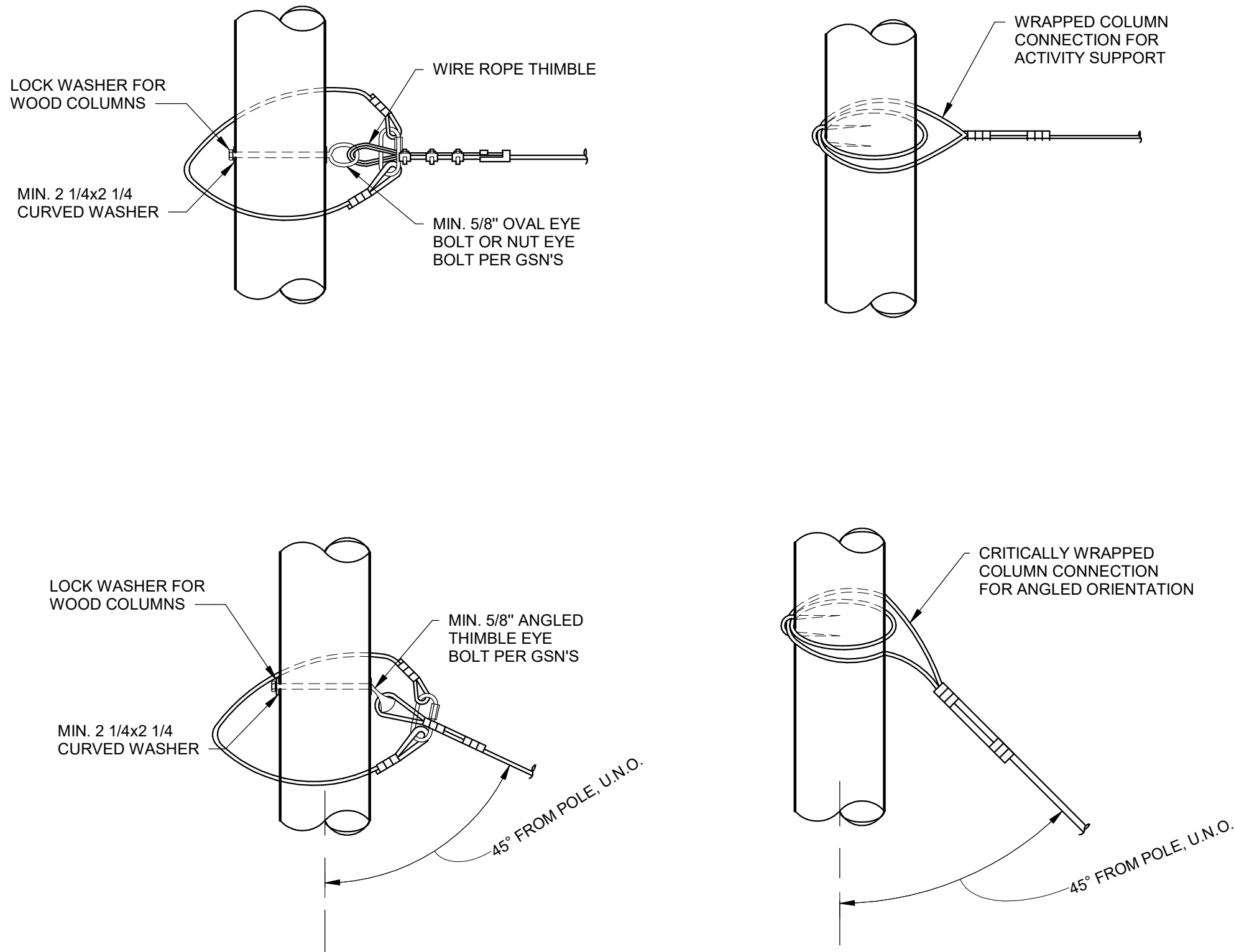
S4.2



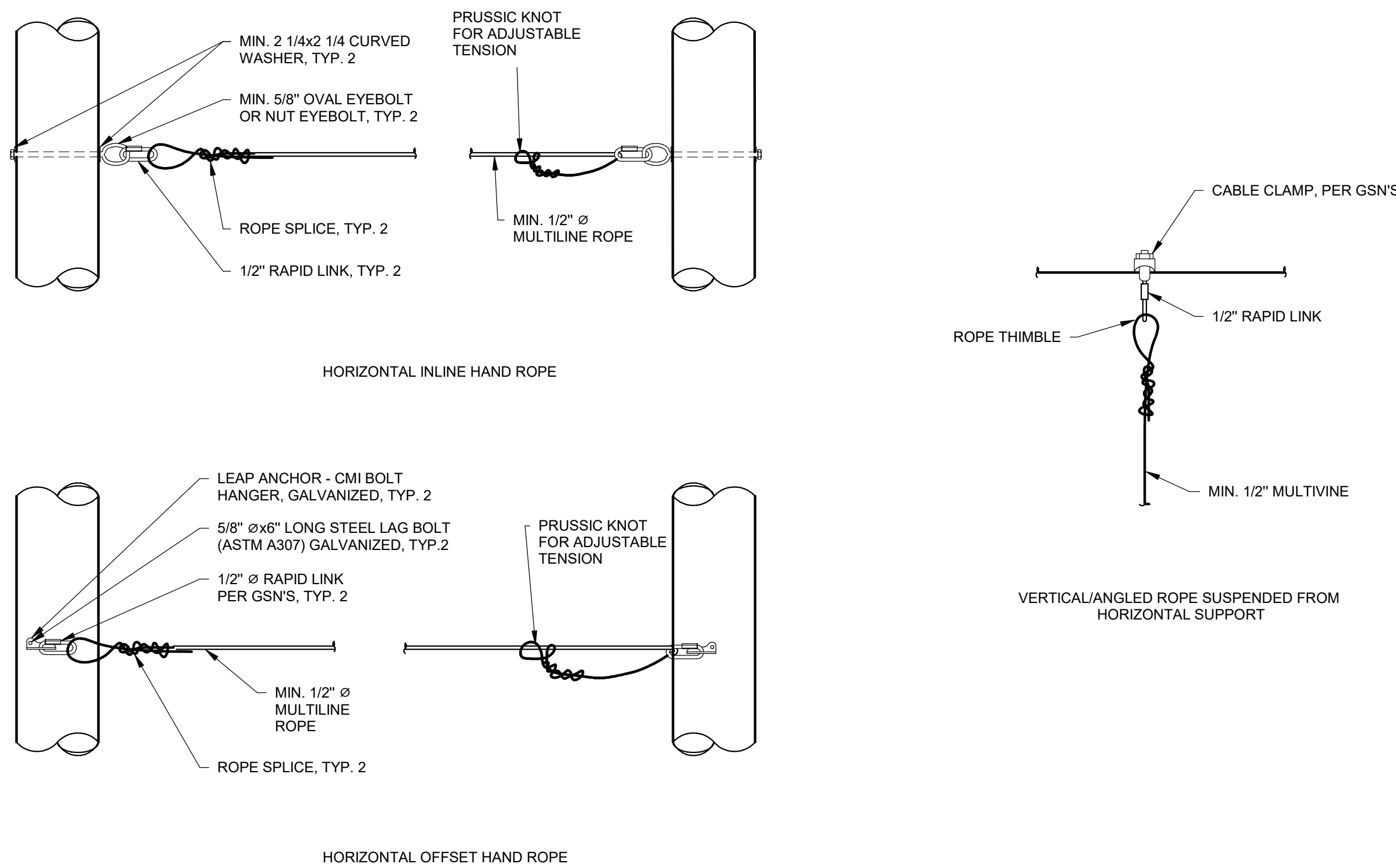
1 TYPICAL BACKUP LOOP OPTIONS FOR CRITICAL LIFE SAFETY APPLICATIONS  
SCALE: 3/4" = 1'-0"



2 TYPICAL ACTIVITY SUPPORT SYSTEMS CONNECTION OPTIONS  
SCALE: 3/4" = 1'-0"



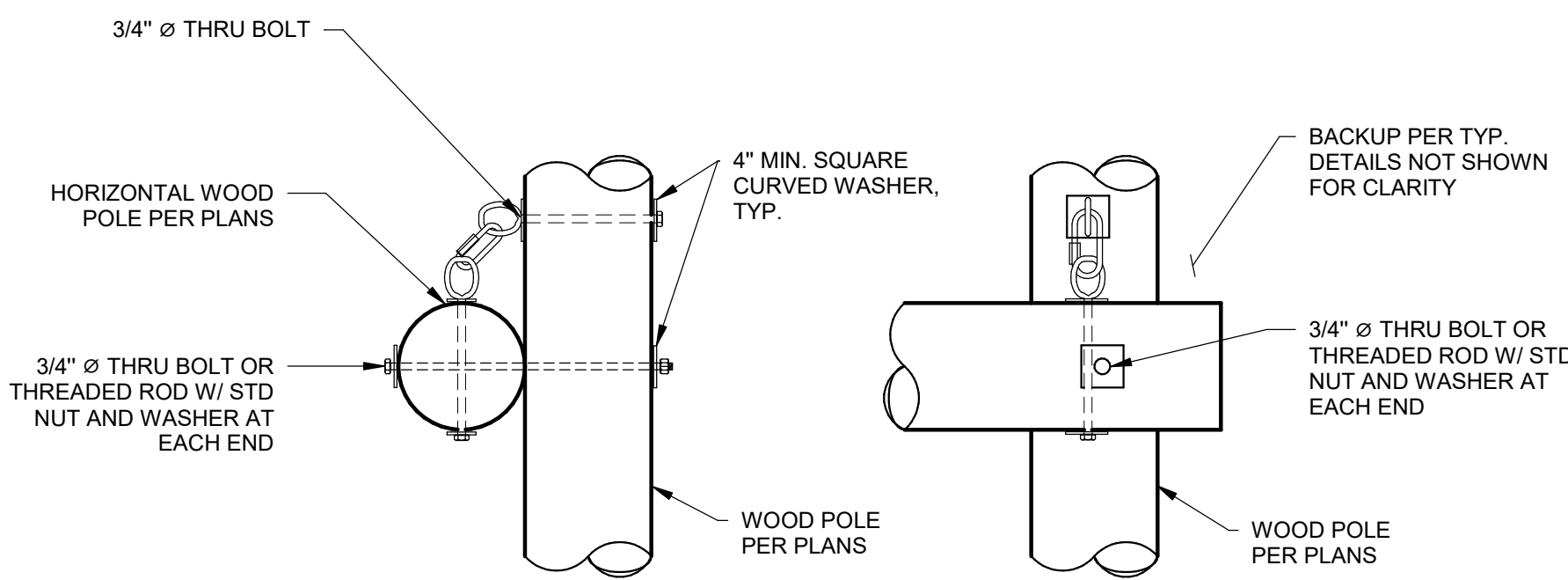
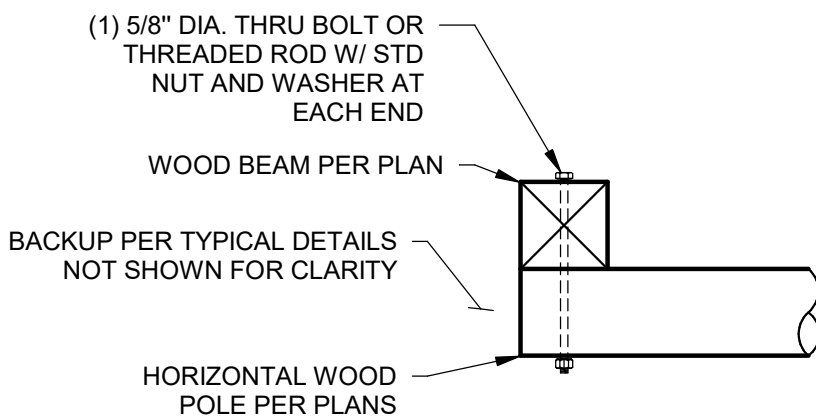
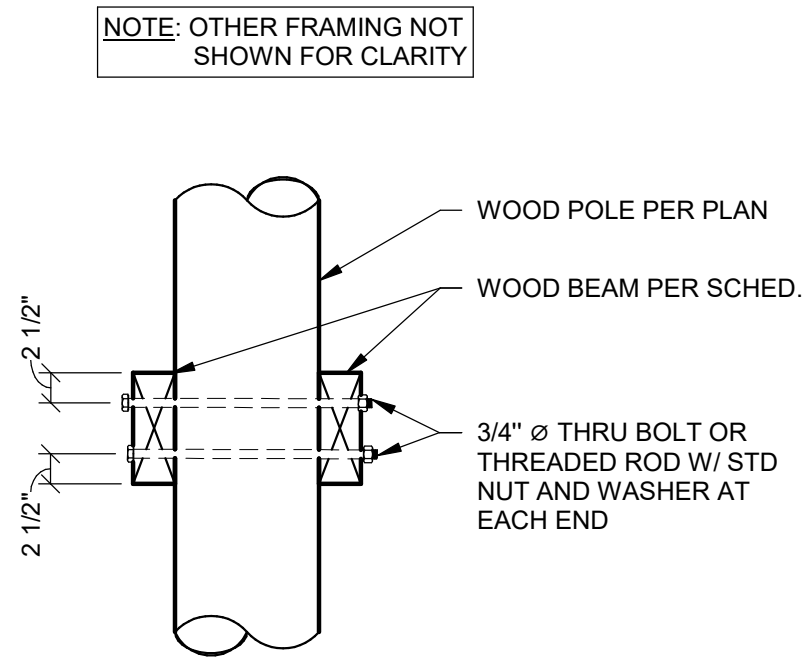
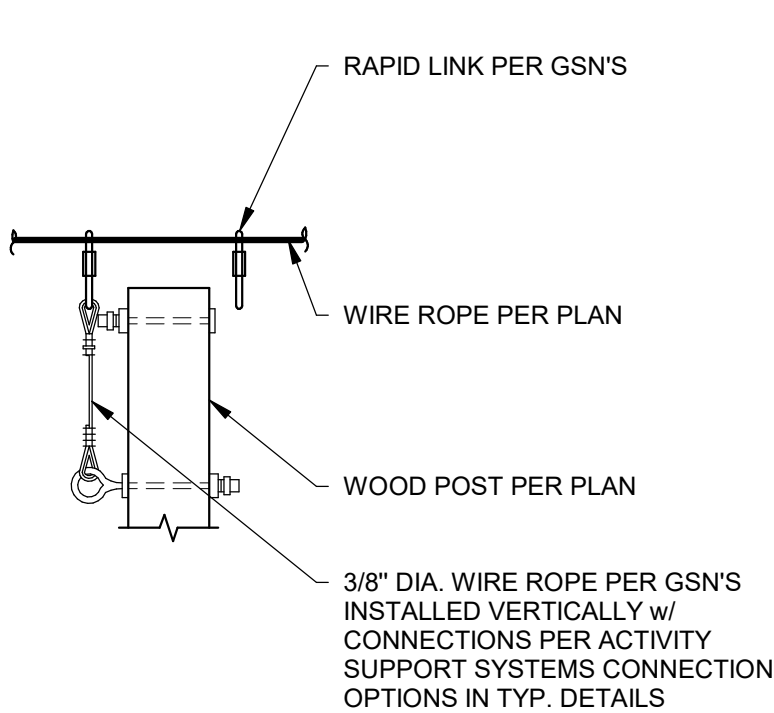
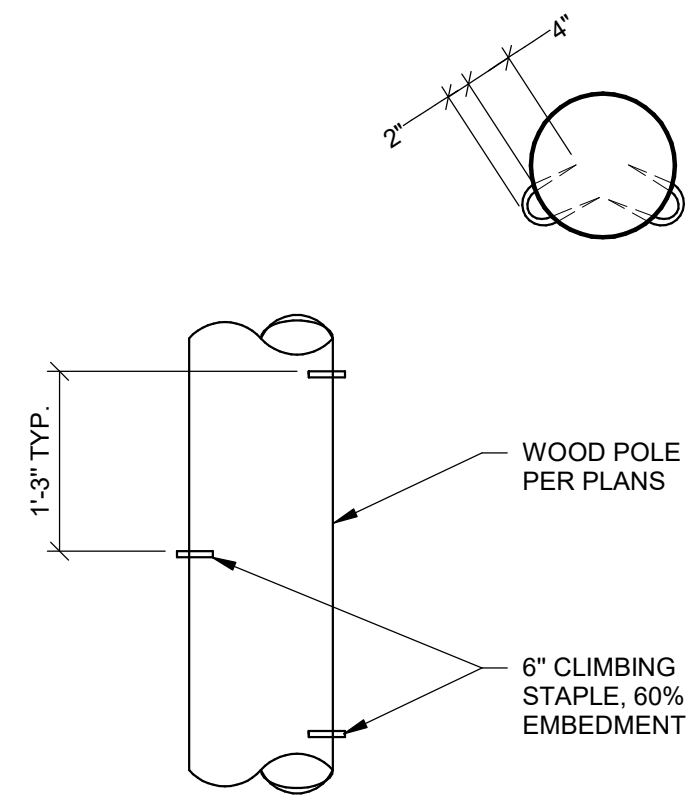
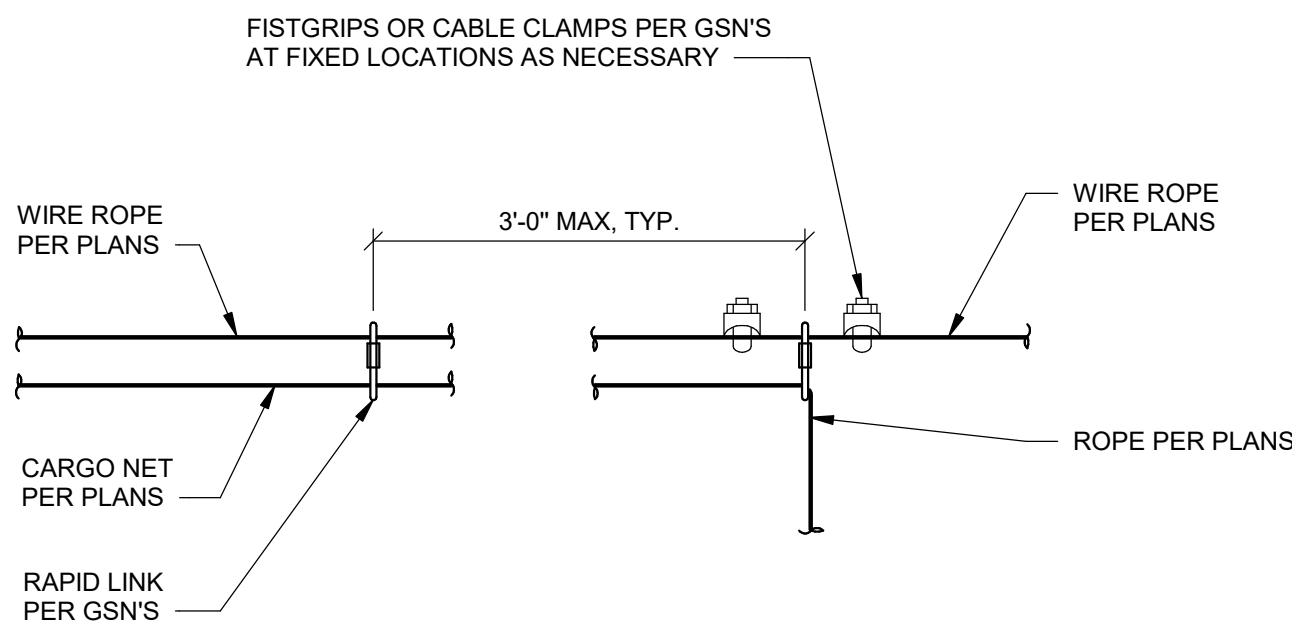
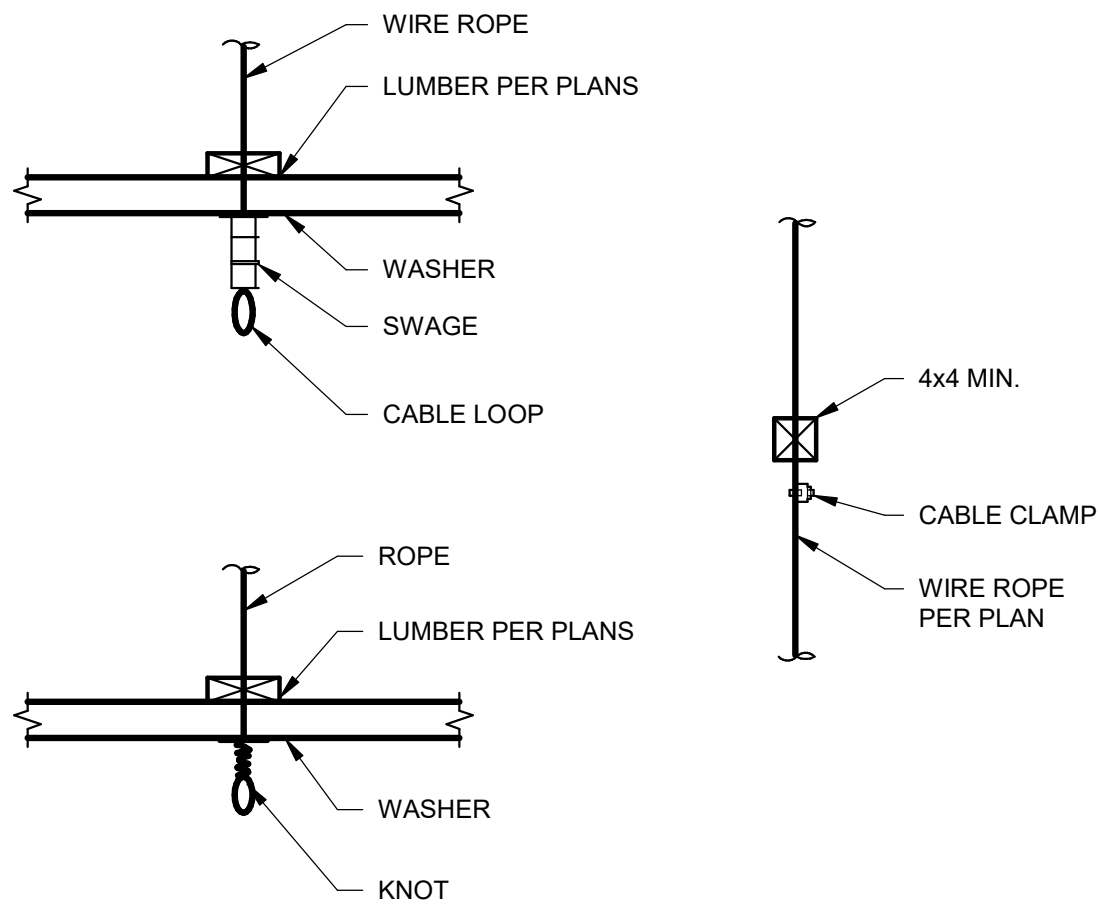
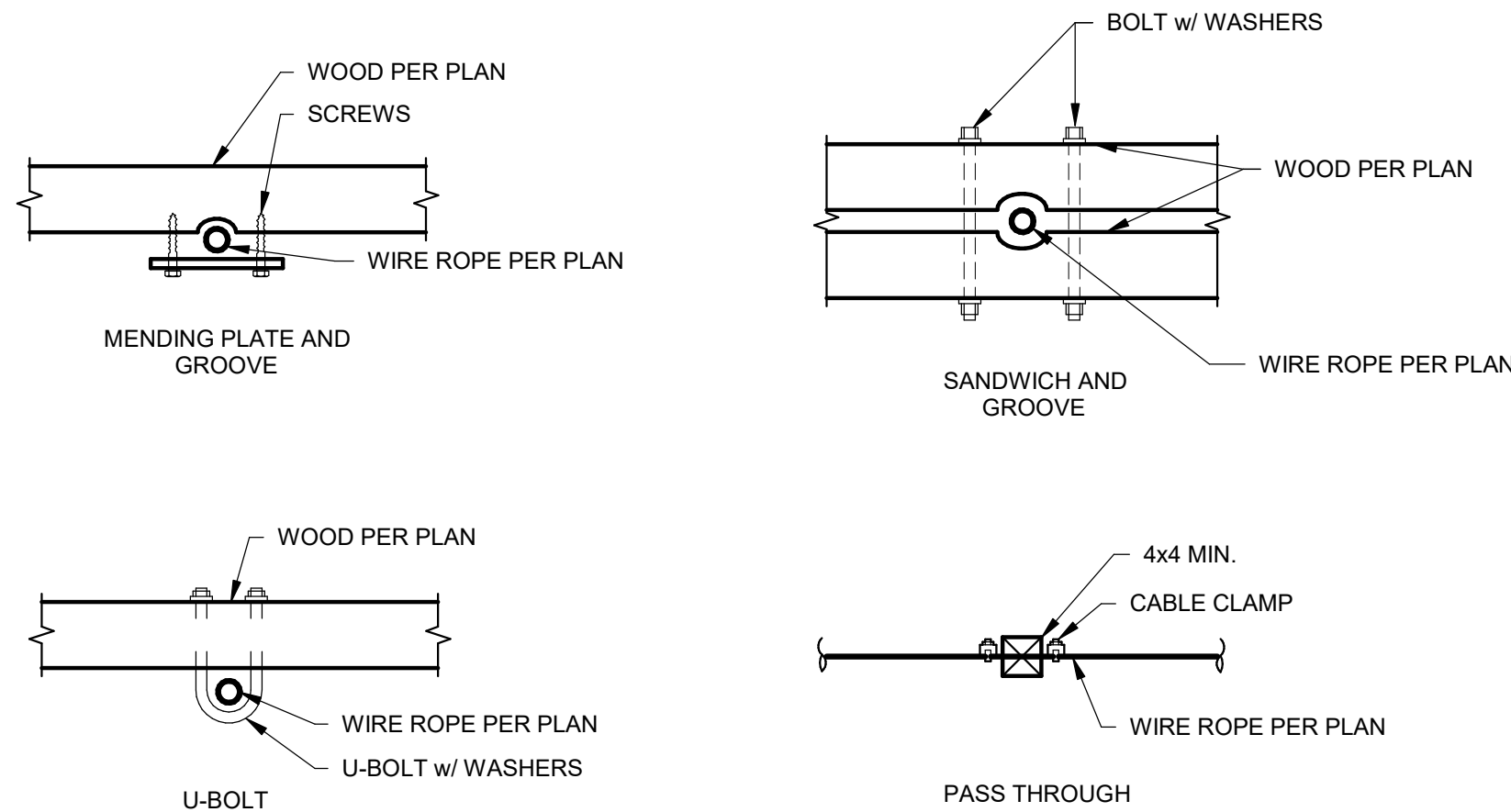
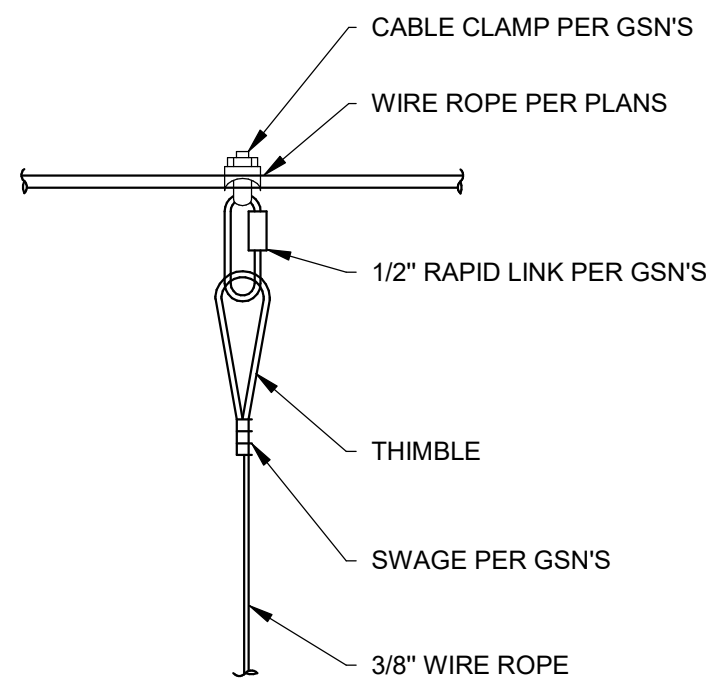
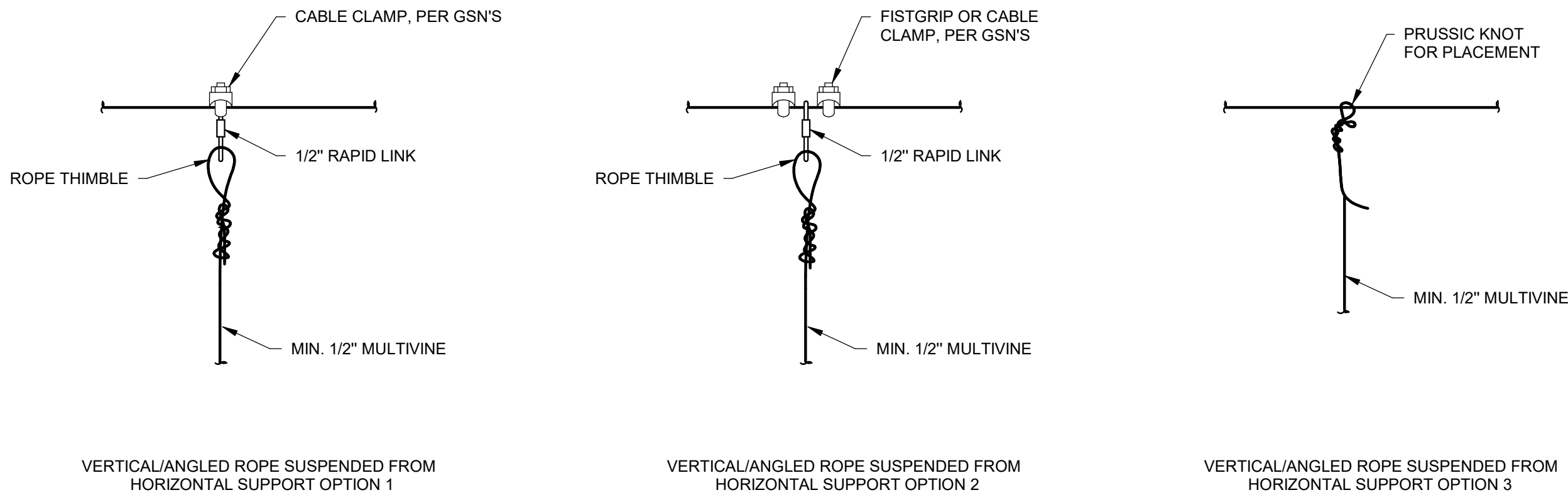
3 OPTIONAL CABLE ATTACHMENT DETAILS  
SCALE: 3/4" = 1'-0"



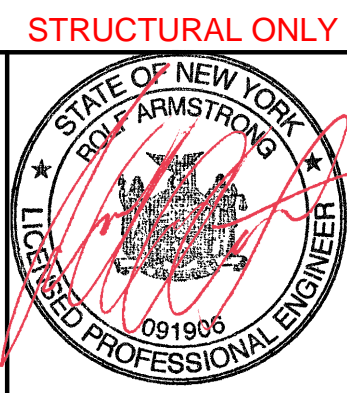
4 TYPICAL ACTIVITY ROPE CONNECTION OPTIONS  
SCALE: 3/4" = 1'-0"



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**S4.4**

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