GENERAL NOTES

DESIGN
A. GENERAL:
1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND JOB SITE CONDITIONS BEFORE COMMENCING WORK AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER.
2. 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.
3. 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.
4. 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.
5. CONTRACTOR SHALL VERIFY SITE REQUIREMENTS AND CONFIRM LOCATION OF THE ACTIVITY BASED ON SITE SURVEY PROVIDED BY STONER & ASSOCIATES, INC.

B. DESIGN CRITERIA:
1. CODES: 2020 BCNYS
2. FLOOR LIVE LOADS:
a. STAIRS N/A
b. LANDINGS 250 LB. POINT LOAD - TWO PEOPLE PER SMALL LANDING AND FOUR PEOPLE PER LARGE LANDING.
c. ACTIVITIES 250 LB. POINT LOAD - LIMIT ONE PERSON PER ACTIVITY.
3. WIND DESIGN DATA: -ASCE-7-16
a. BASIC WIND SPEED -115 MPH (100 MPH - ASD), EXP. B (BOTH DIRECTIONS)
b. WIND SPEED IN USE -40 MPH
4. ALLOWABLE SOIL BEARING CAPACITY:
a. 1500 PSF (ASSUMED)
b. 0.3xDL PSF SKIN FRICTION W/ SAND (ASSUMED)
c. 250 PCF LATERAL BEARING PRESSURE ON NATIVE FILL (ASSUMED)
5. 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:
1. DESIGN STRENGTH
a. STRIP FOOTINGS, SLABS-ON-GRADE, FOUNDATION WALLS, AND RETAINING WALLS; F'C = 3000 PSI AT 28 DAYS, NORMAL WEIGHT
b. SITE - SLABS-ON-GRADE; F'C = 3000 PSI AT 28 DAYS, NORMAL WEIGHT, AIR ENTRAINED
2. MAXIMUM COARSE AGGREGATE SIZE: 3/4" INCH, U.N.O.
3. MAXIMUM SLUMPS:
a. FOOTINGS AND FLOOR SLABS: 4 INCHES (+) 1/2" TO (-) 1:
b. FOUNDATION WALLS AND COLUMNS: 3 INCHES (+) 1/2" TO (-) 1"
c. ENTRAINED AIR: 5% (+ OR -) 1 1/2%; USE ONLY FOR EXTERIOR EXPOSED CONCRETE FOR DURABILITY, U.N.O.
d. CURING COMPOUND: ASTM C309, TYPE 2, CLASS B
e. CONSTRUCTION TO BE IN ACCORDANCE WITH ACI 301
f. LOCATION OF CONSTRUCTION OR POUR JOINTS MUST BE APPROVED BY THE ENGINEER OF RECORD UNLESS OTHERWISE SHOWN ON THESE DRAWINGS.

B. REINFORCING STEEL:
1. USE ASTM A615 - GRADE 40 FOR #3 REINFORCING BARS, GRADE 60 FOR #4 AND LARGER REINFORCING BARS.
2. PROVIDE CLEARANCE AND COVER OF REBAR AS DESIGNATED IN ACI-318.

C. WELDED WIRE FABRIC:
1. USE ASTM A82 AND A185 (SHEETS ONLY)

STRUCTURAL STEEL
A. MATERIAL
1. SHAPES, PLATES AND BARS (EXCEPT W-SHAPES): ASTM A36, FY = 36 KSI
2. W-SHAPES: ASTM A992, FY = 50 KSI
3. PIPE: ASTM A53 OR A501, FY = 35 KSI MIN.
4. TUBES (INCLUDING HSS): ASTM A500, GRADE B, FY = 46 KSI OR GREATER.
5. GUY WIRES: 3/8" DIAMETER 7X19 316 (BREAKING STRENGTH = 12,000 LB.)
6. CROSS CABLES: 1/2" DIAMETER 6X19 316 (BREAKING STRENGTH = 22,800 LB.)
7. ACTIVITY CABLES: 3/8" DIAMETER 7X19 316 (BREAKING STRENGTH = 12,000 LB.)
8. SAFETY CABLES: 3/8" DIAMETER 7X19 316 (BREAKING STRENGTH = 12,000 LB.)

B. BOLTS
1. CARBON STEEL: ASTM A307 MACHINE BOLTS (M.B.) UNLESS OTHERWISE INDICATED AS A325 HIGH STRENGTH BOLTS "SET" (H.S.B.)
2. STAINLESS STEEL: A193 FOR THREADED ROD OR SS 316 BOLTS AND HARDWARE
3. EXPANSION BOLTS (E.B): "HILTI KWIK BOLT TZ" OR APPROVED EQUAL. ADHESIVE ANCHORS: 'HILTI' "HIT RE 500" OR APPROVED EQUAL, WHEN REQUIRED
4. ANCHOR BOLTS: ASTM F1554, GRADE 36, FY=36 KSI, WHEN REQUIRED

C. WELDING ELECTRODES OR WIRES
1. AWS A5.1 OR A5.5, E70XX: AWS A5.18, E70S-X.
2. WELDING SHALL CONFORM TO AWS " CODE FOR ARC AND GAS WELDING IN BUILDINGS".
3. ALL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER.

D. PROTECTION AGAINST CORROSION:
1. 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.
2. AS AN ALTERNATE, STAINLESS STEEL MAY BE USED IN PLACE OF HOT-DIPPED GALVANIZED FASTENERS WHEN AVAILABLE.

E. ERECTION
1. ERECTION AND FABRICATION SHALL BE IN ACCORDANCE WITH AISC "SPECIFICATIONS FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS."

WOOD
A. MEMBERS
1. SAWN LUMBER: NO 2 SPRUCE PINE FIR OR BETTER, WWPA GRADING RULES.
a. ALL LUMBER SHALL BE PRESSURE TREATED.
2. TIMBERS: NO 1 SOUTHERN YELLOW PINE OR BETTER, WWPA GRADING RULES.
a. ALL TIMBERS SHALL BE PRESSURE TREATED.
3. POLES: CLASS 2 POLE COMFORMING TO ASTM D25-12, AND TREATED IN ACCORDANCE WITH ANSI 05.1

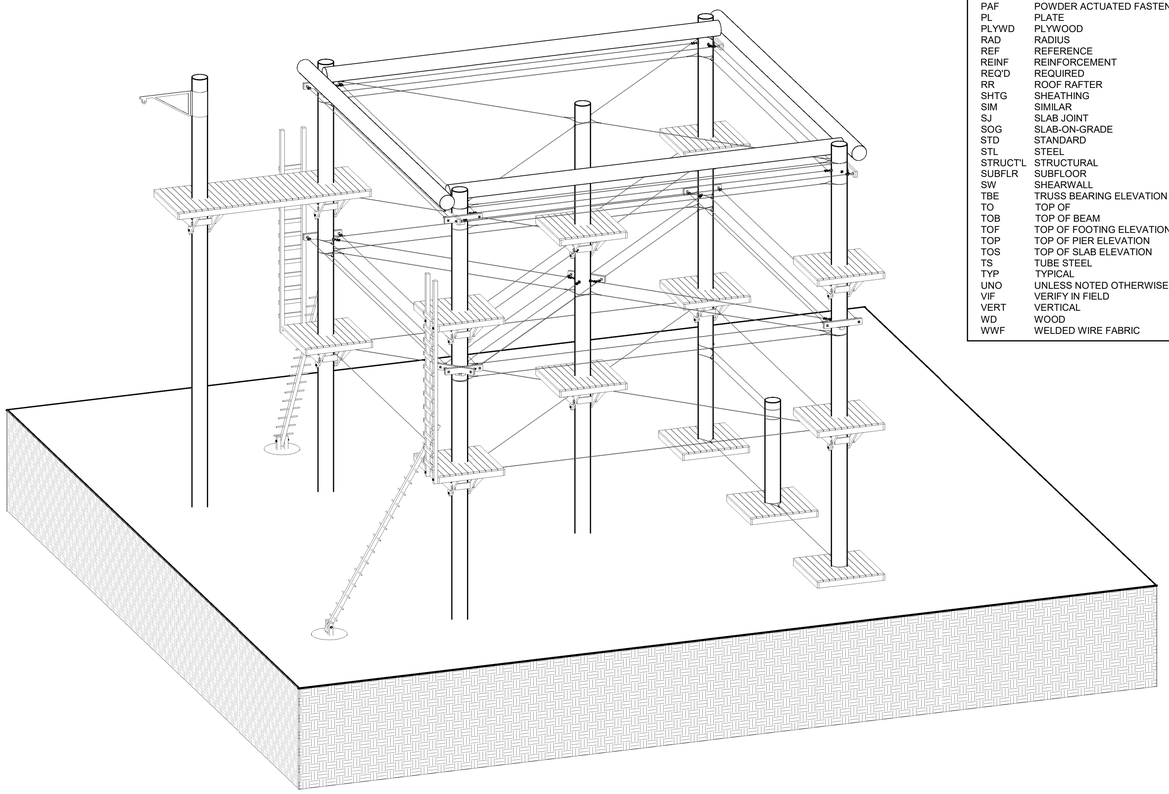
B. FRAMING ANCHORS AND CONNECTORS
1. "SIMPSON" OR APPROVED EQUAL AS INDICATED ON THESE DRAWINGS.
2. HEADLOK OR SPAX ARE APPROVED FASTENERS.

C. NAILING
1. 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).
1. NOTE: THE ICBO, 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.

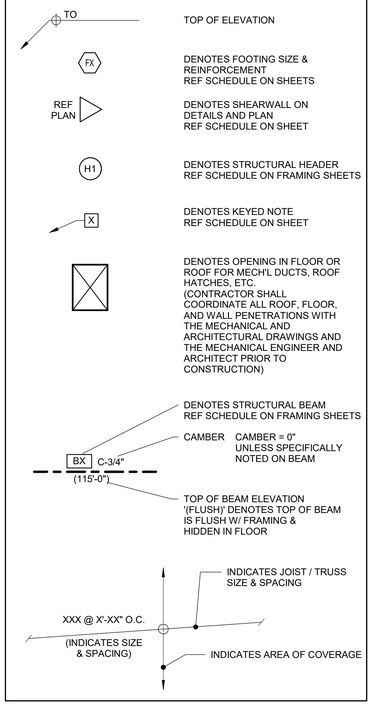
C. IF FASTENERS ARE NOT OF THE SAME MATERIAL, THE DISSIMILAR METALS SHALL BE SEPARATED WITH AN APPROVED NON-CORROSIVE PAINT OR SIMILAR APPROVED MATERIAL.



ABBREVIATION LIST

AB	ANCHOR BOLT
ABV	ABOVE
ARCH'L	ARCHITECTURAL
BD	BOARD
BLDG	BUILDING
BLKG	BLOCKING
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	GYPSUM
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
OPN'G	OPENING
OPP	OPPOSITE
PAF	POWDER ACTUATED FASTENER
PL	PLATE
PLYWD	PLYWOOD
RAD	RADIUS
REF	REFERENCE
REINF	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
TOP	TOP OF PIER ELEVATION
TOS	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

ROAF ARMSTRONG
091905
LICENSED PROFESSIONAL ENGINEER
STATE OF NEW YORK
ECLIPSE ENGINEERING
(541) 388-9659
385 NE QUIMBY AVE
BEND, OR 97701
ECLIPSE-ENGINEERING.COM

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GENERAL STRUCTURAL NOTES & SIS

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STRUCTURAL ONLY

1 GUY WIRE PLAN
SCALE: 1/4" = 1'-0"

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ROAF ARMSTRONG
LICENSED PROFESSIONAL ENGINEER
091905

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365 NE QUIMBY AVE
BEND, OR 97701
ECLIPSE-ENGINEERING.COM
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TOP ELEVATION

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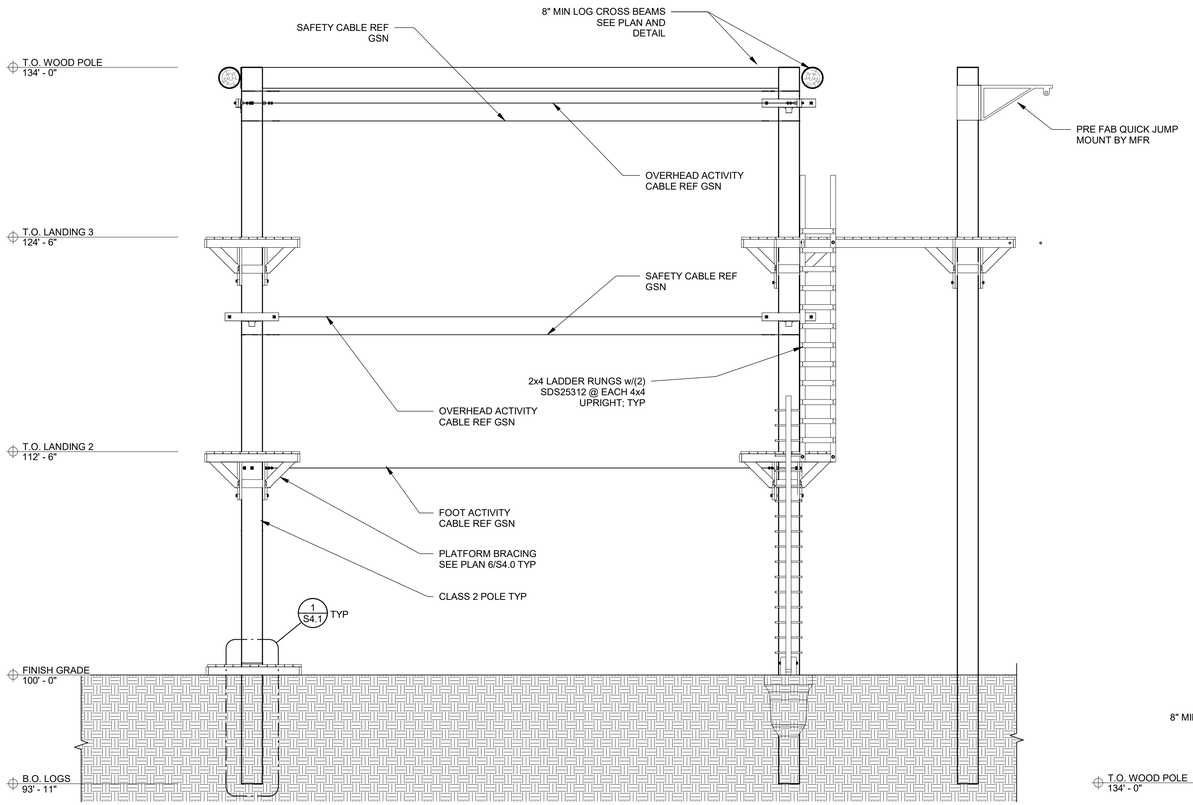

1 NORTH ELEVATION
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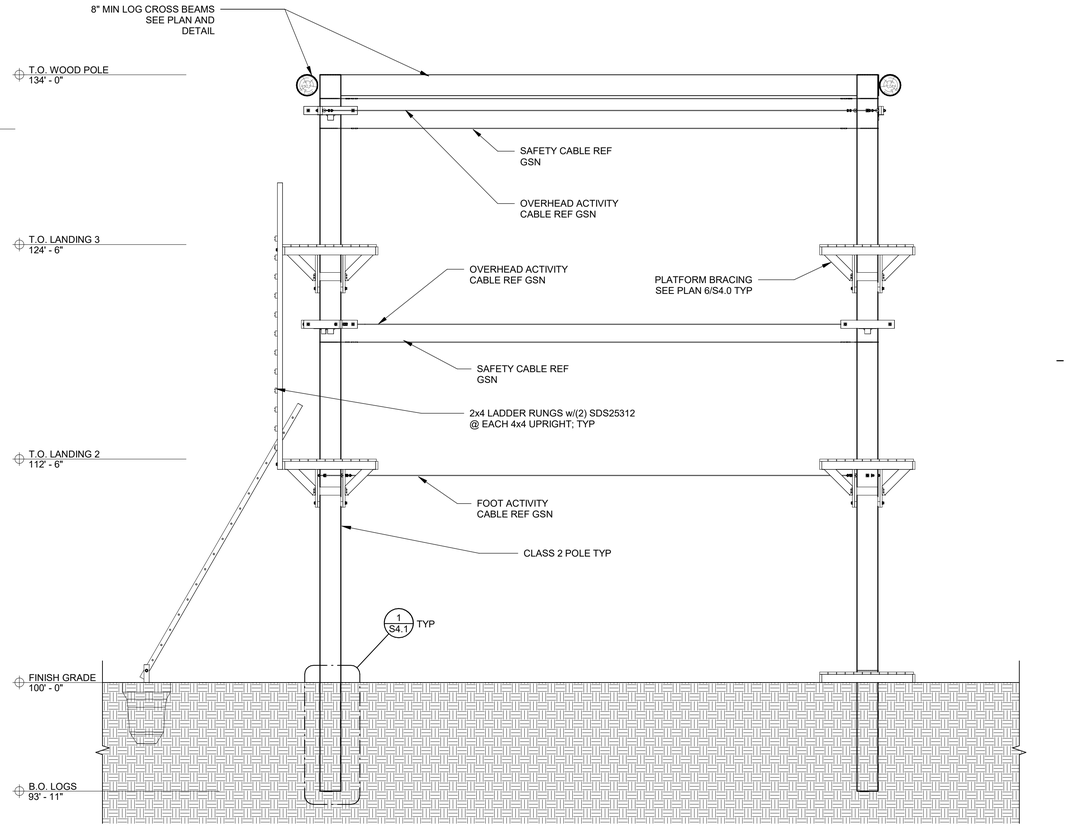

2 SOUTH ELEVATION
SCALE: 1/4" = 1'-0"

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NORTH AND SOUTH ELEVATIONS

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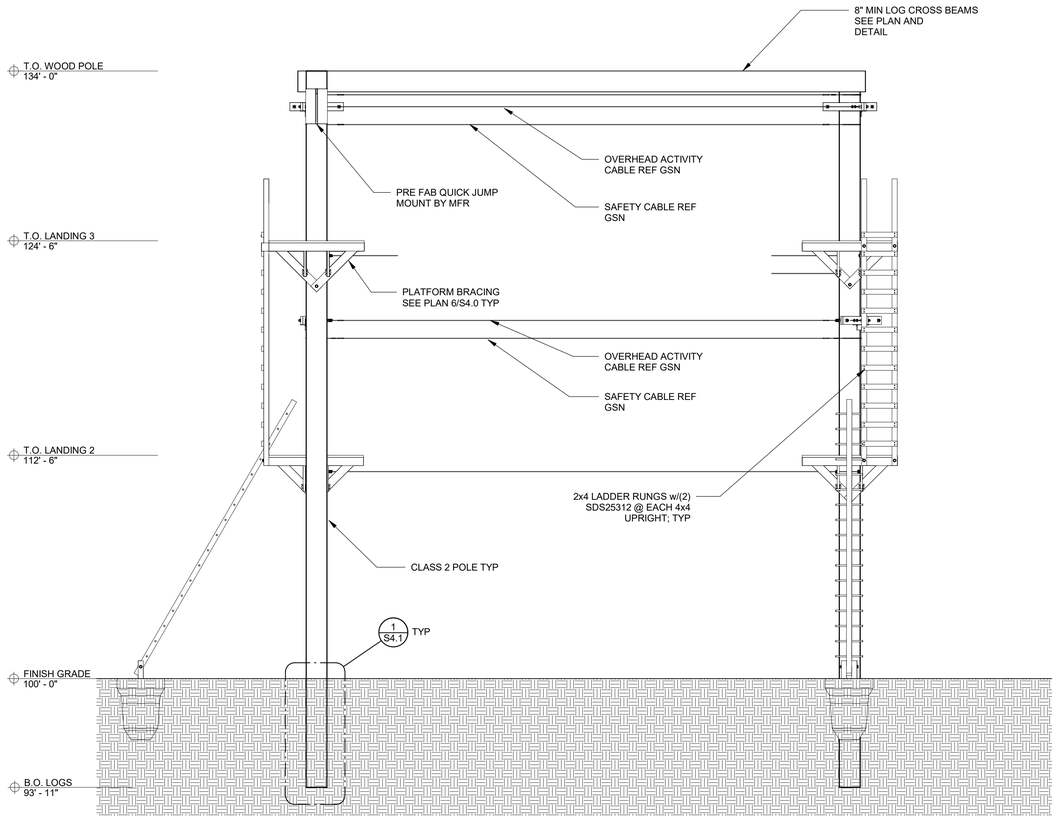

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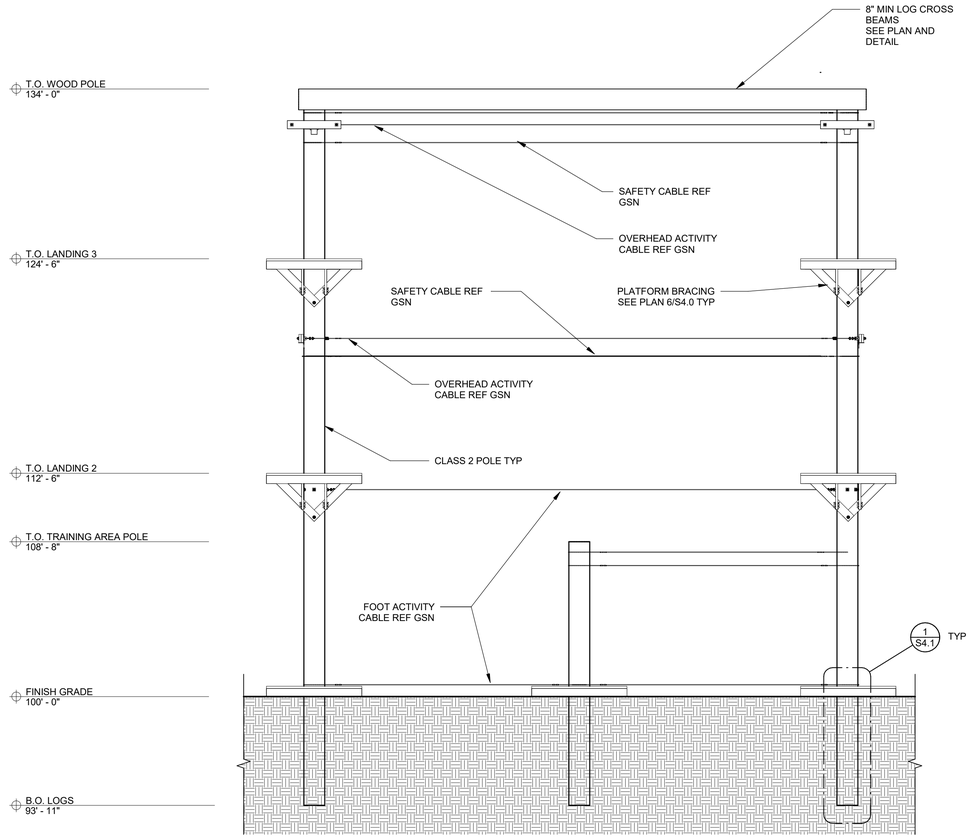

2 EAST ELEVATION
SCALE: 1/4" = 1'-0"

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EAST AND WEST ELEVATIONS

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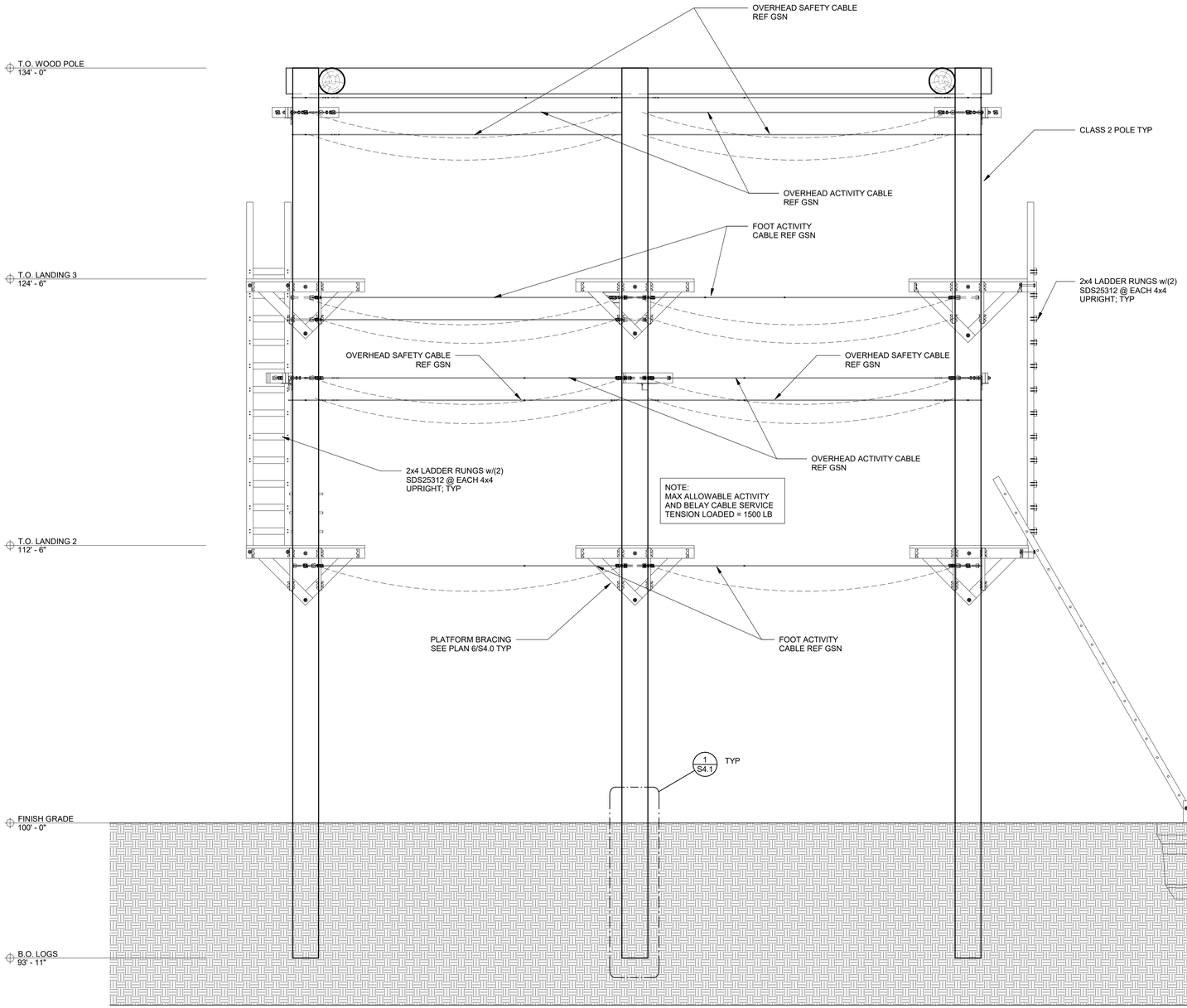

1 TYPICAL SECTION
SCALE: 3/8" = 1'-0"

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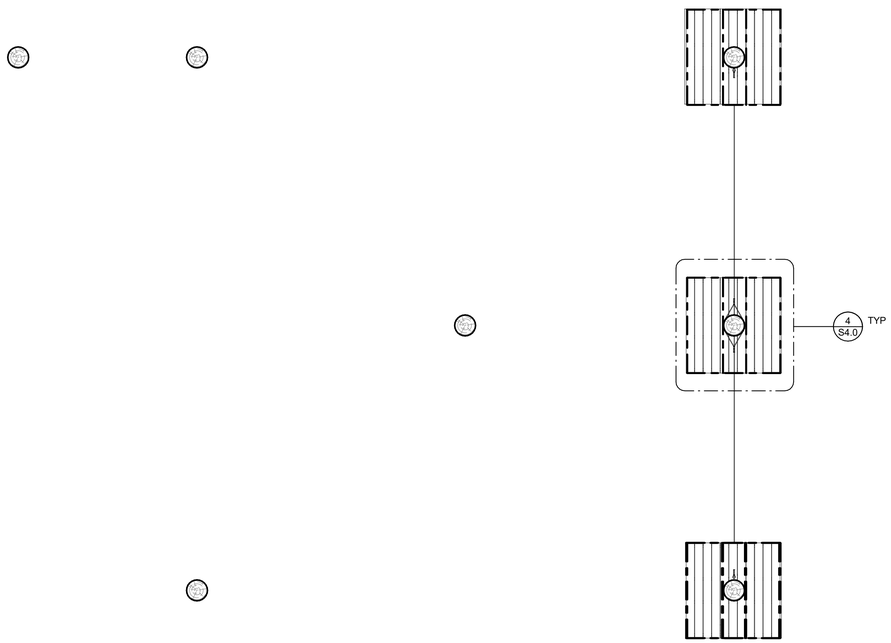

1 T.O. LANDING FINISH LEVEL
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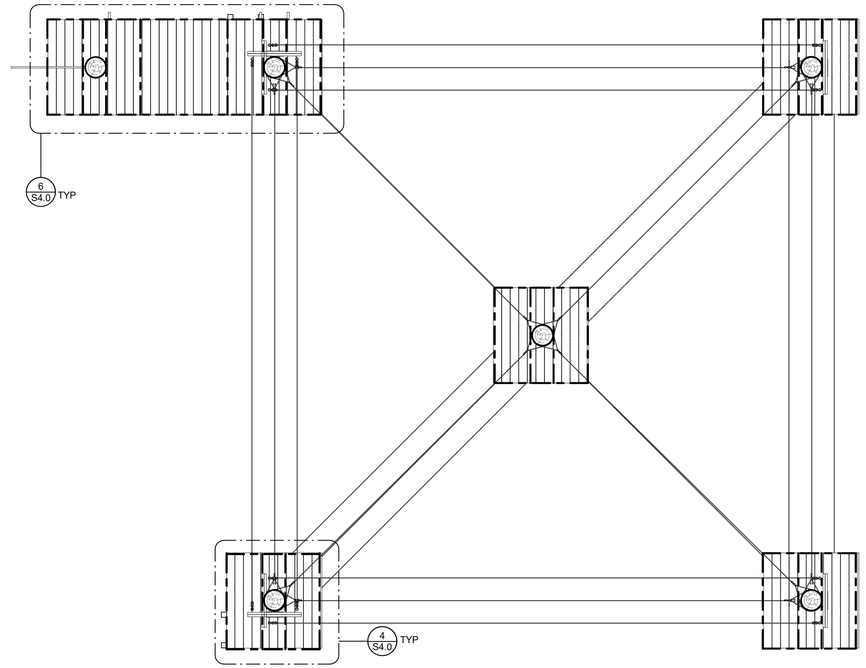

3 T.O. LANDING 3
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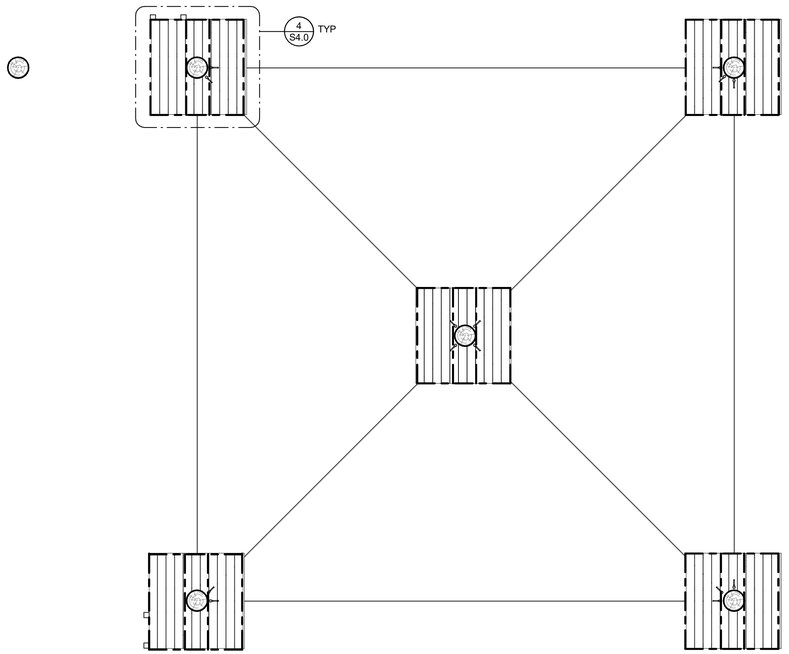

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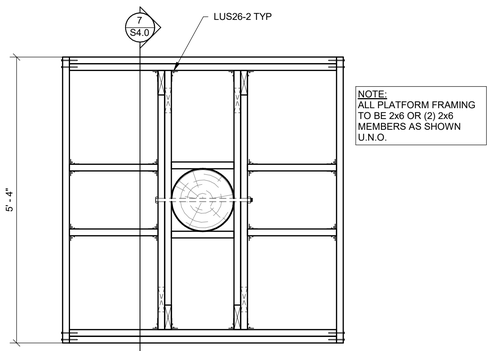
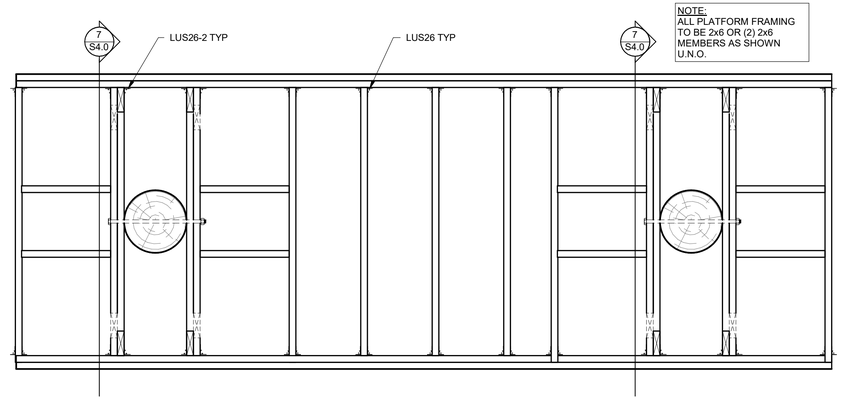
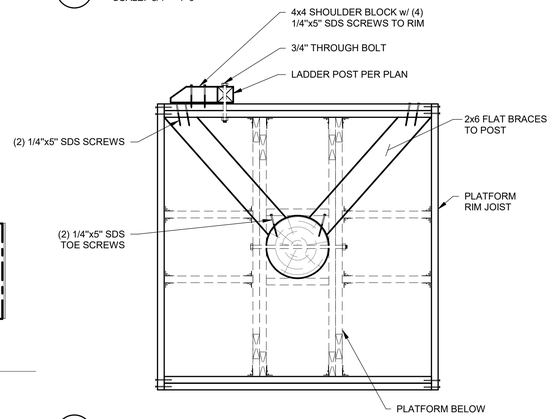


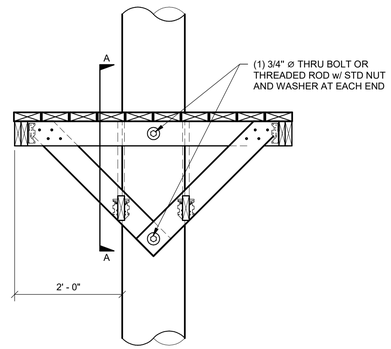
4 TYPICAL ENLARGED PLATFORM FRAMING PLAN
SCALE: 3/4" = 1'-0"

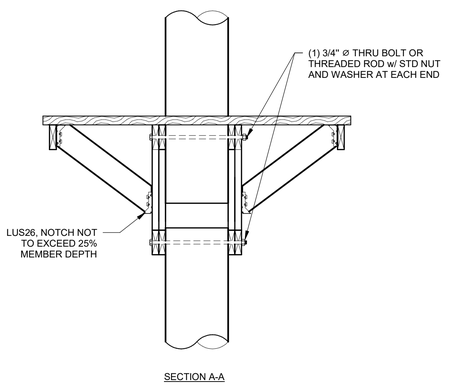


6 ENLARGED PLATFORM FRAMING PLAN
SCALE: 3/4" = 1'-0"



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





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

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385 NE QUIMBY AVE
BEND, OR 97701
ECLIPSE-ENGINEERING.COM

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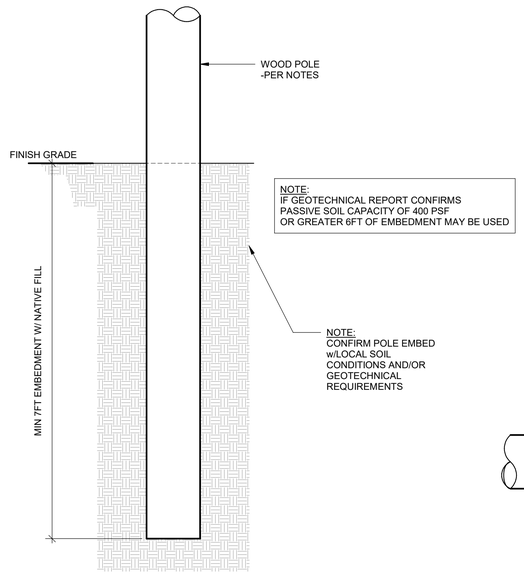
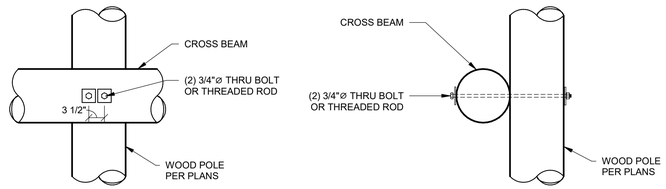


1 PIER FOUNDATION DETAIL
SCALE: 3/4" = 1'-0"



2 HORIZONTAL POLE ELEMENT TO WOOD POLE CONNECTION
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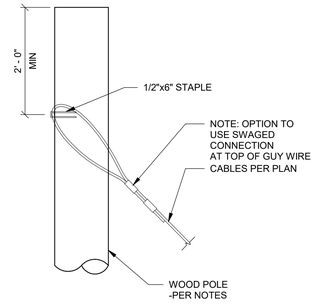

3 GUY LINE DETAIL
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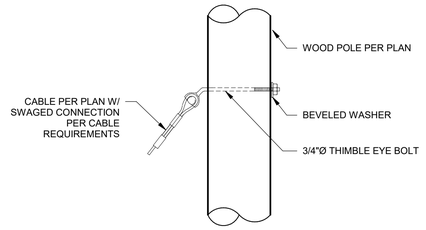

4 GUY CABLE POLE ATTACHMENT
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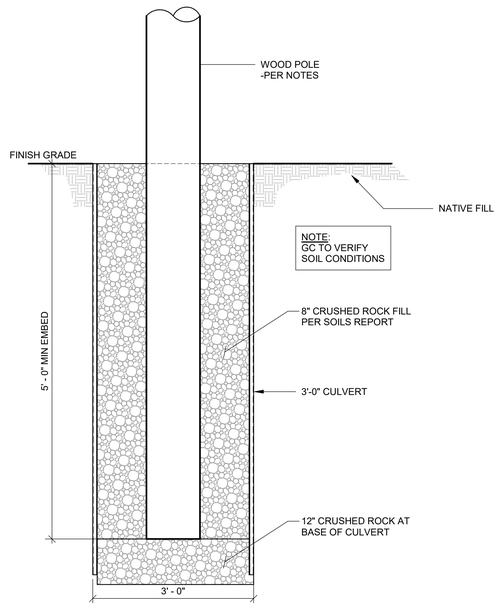

5 OPTIONAL CULVERT FOUNDATION DETAIL
SCALE: 3/4" = 1'-0"

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ROAF ARMSTRONG
091905
LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

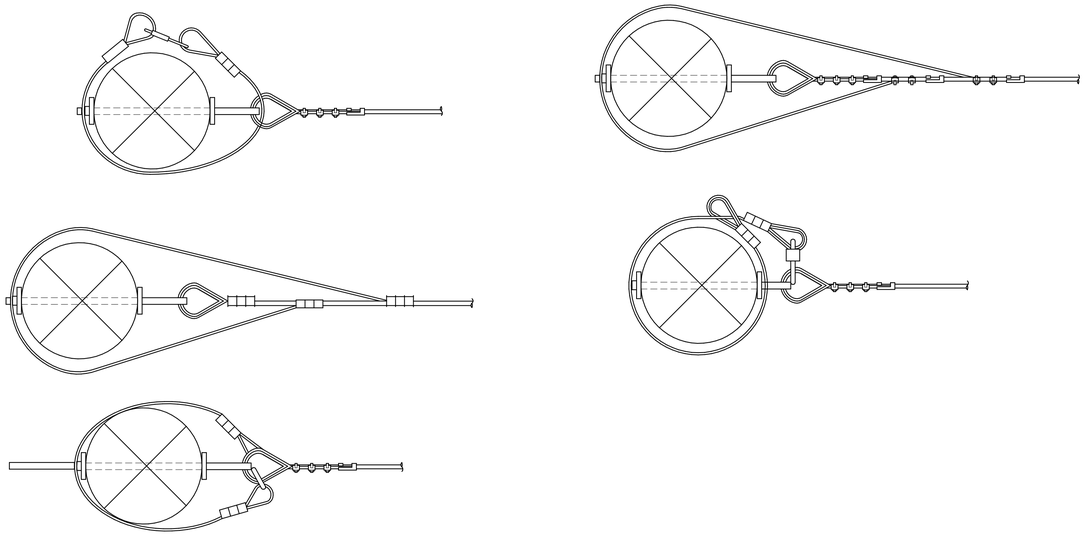
STRUCTURAL DETAILS

PROJ. #:	23-12-045
CHECKED BY:	RHA
DRAWN BY:	JDK
DATE:	12.19.2023

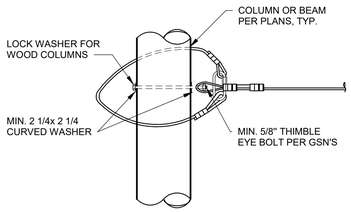
SHEET
S4.1

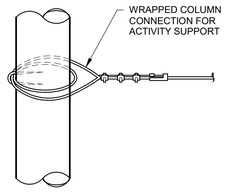
PERMIT SET

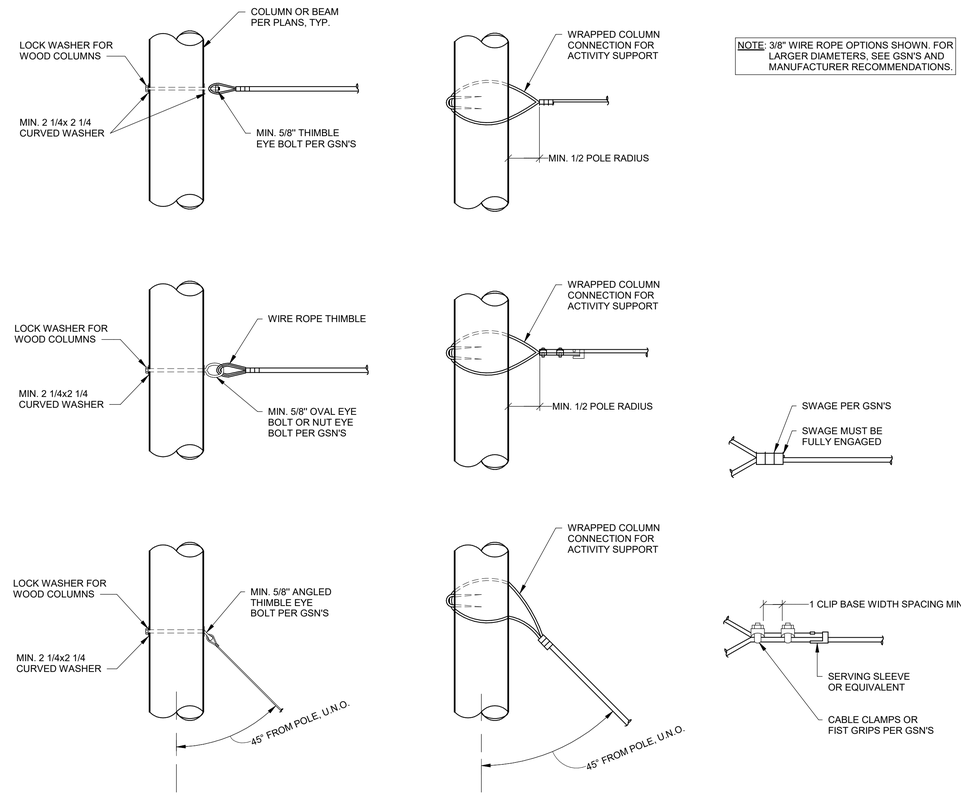
STRUCTURAL ONLY



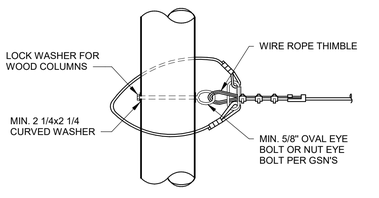
1 TYPICAL BACKUP LOOP OPTIONS FOR CRITICAL LIFE SAFETY APPLICATIONS
SCALE: 3/4" = 1'-0"

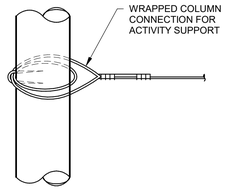


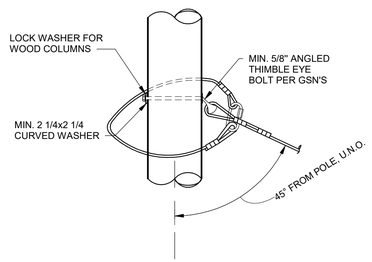


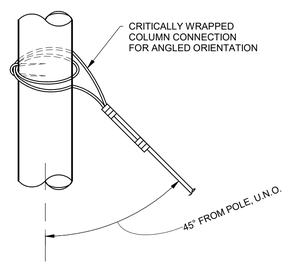


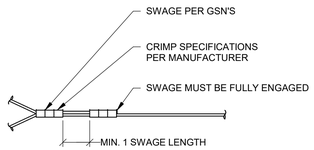
2 TYPICAL ACTIVITY SUPPORT SYSTEMS CONNECTION OPTIONS
SCALE: 3/4" = 1'-0"

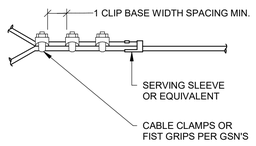




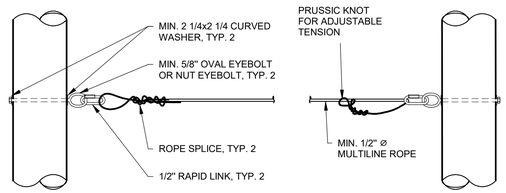




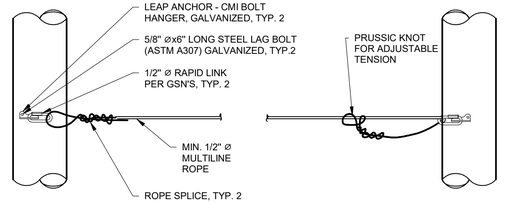




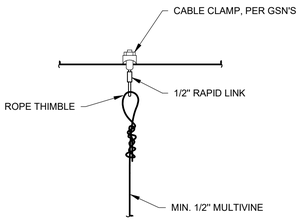
3 OPTIONAL CABLE ATTACHMENT DETAILS
SCALE: 3/4" = 1'-0"



HORIZONTAL INLINE HAND ROPE



HORIZONTAL OFFSET HAND ROPE



VERTICAL/ANGLED ROPE SUSPENDED FROM
HORIZONTAL SUPPORT

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

ECLIPSE ENGINEERING
(541) 388-9659
385 NE QUIMBY AVE
BEND, OR 97701
ECLIPSE-ENGINEERING.COM

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

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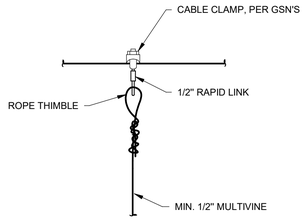
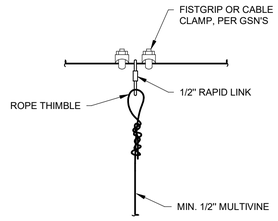
Date: 12/19/2023 4:35:51 PM

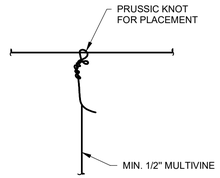
STRUCTURAL ONLY



VERTICAL/ANGLED ROPE SUSPENDED FROM HORIZONTAL SUPPORT OPTION 1

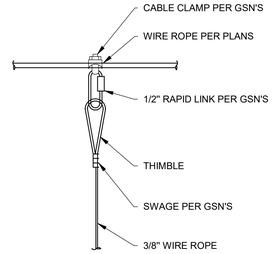


VERTICAL/ANGLED ROPE SUSPENDED FROM HORIZONTAL SUPPORT OPTION 2

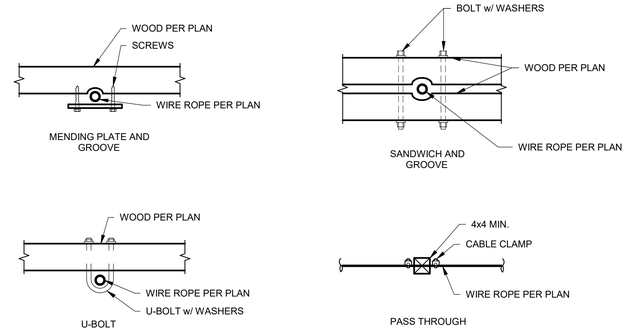


VERTICAL/ANGLED ROPE SUSPENDED FROM HORIZONTAL SUPPORT OPTION 3

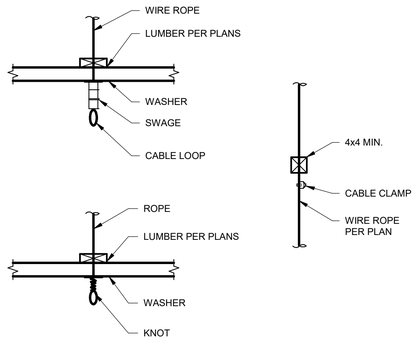
1 VERTICAL OR ANGLED WIRE ROPE CONNECTION OPTIONS
SCALE: 3/4" = 1'-0"



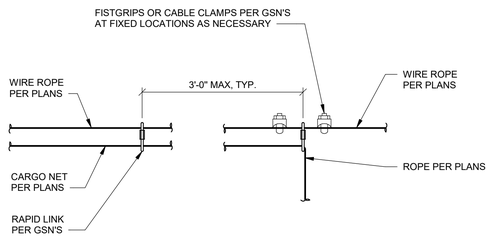
2 SUSPENDED VERTICAL WIRE ROPE
SCALE: 3/4" = 1'-0"



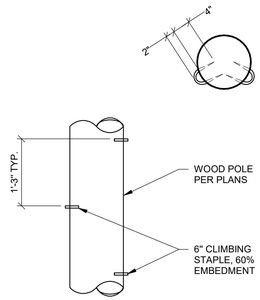
3 WOOD TO WIRE ROPE CONNECTION OPTIONS
SCALE: 3/4" = 1'-0"



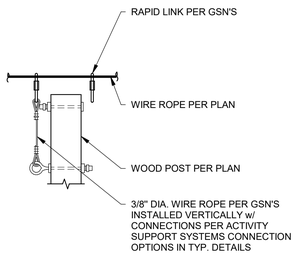
4 SUSPENDED LUMBER WITH ROPE OR ROPE WIRE CONNECTION OPTIONS
SCALE: 3/4" = 1'-0"



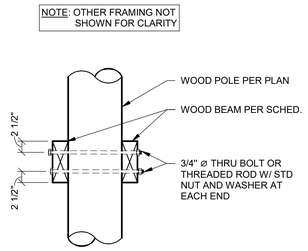
5 CARGO NET CONNECTION
SCALE: 3/4" = 1'-0"



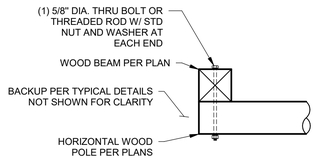
6 CLIMBING STAPLES AT WOOD POLE
SCALE: 3/4" = 1'-0"



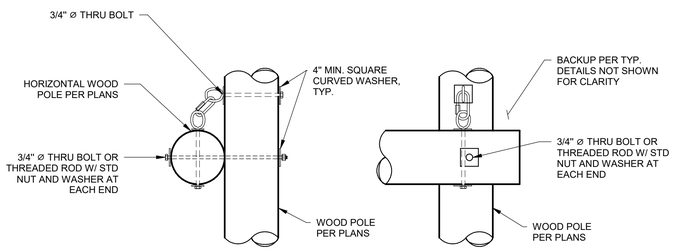
7 RAPID LINK OR DROP CABLE CONNECTION FOR WOOD POST
SCALE: 3/4" = 1'-0"



8 WOOD BEAMS AT WOOD POLE
SCALE: 3/4" = 1'-0"



9 HORIZONTAL WOOD POLE AT WOOD PLATFORM BEAM
SCALE: 3/4" = 1'-0"



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

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