

SUNSHADE HAVE BEEN REMOVED FROM THE PROJECT WTE 06.01.2022

LAND USE TABLE		
Area Zoning (PD)	PD	
Land Use(s)	REGIONAL COMMERCIAL RETAIL	
Surrounding Use(s)	REGIONAL COMMERCIAL RETAIL	
Site Area (sqft)	1215 SF (APPROX. STRUCTURE)	
Building Area (sqft)		
Building Gross Floor Area (GFA)	N/A	
Building Net Leasable Area (NLA)	N/A	
Floor Area Ratio	N/A	
Number of Buildings	N/A	
Building height at max	38'-0" TOP OF STEEL	
Total Landscaped Areas		
Site Perimeter (sqft)	N/A	
Parking Lot Perimeter (sqft)	N/A	
Streetscaping Area (sqft)	N/A	
Parking Lot Islands (sqft)	N/A	
	REQUIRED	PROVIDED
Setbacks		
Front	30'-0"	30'-0"
Side	30'-0"	30'-0"
Side	30'-0"	30'-0"
Other/additional side(s)	N/A	
Back	N/A	
Parking		
Area (sqft)	N/A	
Number of Stalls	N/A	
Number of ADA Accessible Stalls	N/A	
Number of Van ADA Accessible Stalls	N/A	
Number of Bike Stalls	N/A	

REVISED - WTE 06.01.2022

GENERAL PROJECT NOTES:

- MULTI-POST ROPES COURSE ATTRACTION IS DESIGN, ENGINEERED, and INSTALLED BY MANUFACTURER. MANUFACTURER'S ENGINEERED DRAWINGS and RENDERINGS ARE INCLUDED IN THIS SUBMITTAL PACKAGE FOR REFERENCE and CLARIFICATIONS.
- ROPES COURSE ATTRACTION WILL BE LOCATED ON THE EXISTING CONCRETE PATIO ON THE SOUTH SIDE OF THE EXISTING BLD'G.
- THIS ATTRACTION IS NOT CONSIDERED A BUILDING STRUCTURE and IN TURN DOES NOT INCREASE OCCUPANT LOAD OF THE FACILITY.
- WITH NOT ADDITIONAL OCCUPANTS THIS ATTRACTION WILL NOT AFFECT PARKING SO EXISTING PARKING IS NOT BEING CHANGED.
- ROPES COURSE ATTRACTION DOES NOT HAVE ANY LIGHTING ASSOCIATED WITH IT. EXISTING SITE and BUILDING LIGHTING ARE NOT BEING AFFECTED BY THIS ATTRACTION. NO PHOTOMETRIC IS BEING PROVIDED IN THIS SUBMITTAL.
- SUNSHADE ELEMENT HAS BEEN REMOVED FROM THE PROJECT.

LEGAL DESCRIPTION:

LOT 4A, CROWN POINT FILING #1
LOCATED IN A PORTION OF THE SW 1/4 OF SECTION 3,
T6S, R66W, 6TH P.M., COUNTY OF DOUGLAS, STATE OF COLORADO

Boondocks Food and Fun - Parker

8 POLE 2 LEVEL SKY TRAIL® DISCOVERY WITH (1) 60°SKY RAIL® AND SUN SHADES

**WE BUILD
ADVENTURE**

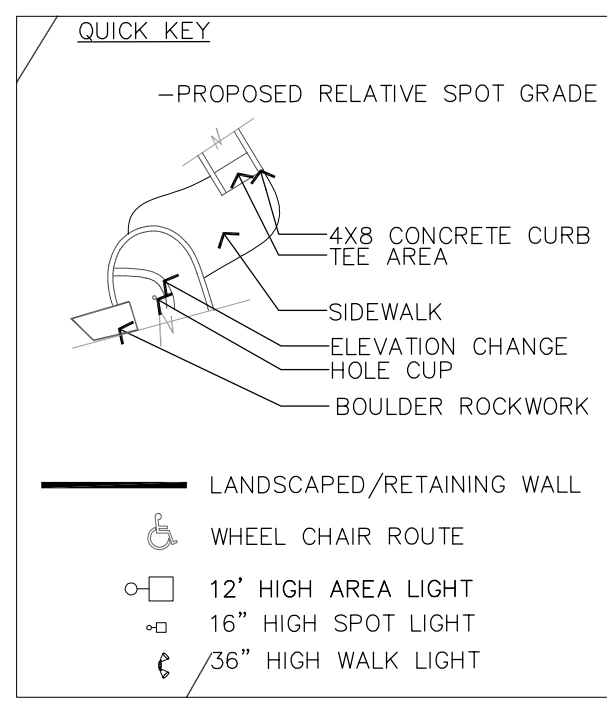
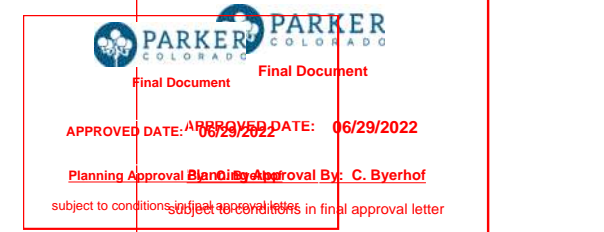
PLANT LEGEND

CCF G-8 White Fir 50'X20'-25'
 CSP G Colorado Spruce 60'X35'
 B5P B Bakeri Spruce 30'X10'
 PN G Pinon Pine 25' X 15'
 AUS G Austrian Pine 50'X20'
 PON G Ponderosa Pine 40'X25'
 MEJ 5-7 Gal. Medora Juniper 10'X5'
 SPA 5-7 Gal. Spartan Juniper 15'X5'
 WBL 10 Gal. Wichita Blue Juniper 20'X5'
 CSM Crimson Sentry Maple 25'X15'
 MP Imperial Locust 35'X25'
 SHA Shademaster Honeylocust 50'X35'
 BOA 2.5' Cal. Burr Oak 70' X 50'
 TEX Texas Rd Oak 50' X 40'
 ROA Northern Red Oak 50'X30'
 EOA English Oak 50'X40'
 RL Redmond Linden 40'X25'
 GMC Amur Maple G Clump-#15 20'X15'
 ALG Thineaf Alder 20'X10'
 CRT Goldenrain Tree 30'X25'
 PRF Prairiefire Crab 20'X20'
 TGG Thunderchild Crab 20'X20'
 BSL Scotch Lena Broom 3'X4'
 BSG Spanish Gold Broom 4'X6'
 EGG Elyonmus Emerald Gaety 3'X5'
 AND Andora Juniper 18'X6'
 ARM Armstrong Juniper 4'X4'
 BCM Blue Chip Juniper 10'X6'
 BUF Buffalo Juniper 12'X6'
 HUG Hughes Juniper 18'X6'
 OLD Old Gold Juniper 3'X4'
 RBA Red Barberry 4'X5'
 OPB Grimm Pygmy Barberry 2'X3'
 BEE Butterfly Bush 5'X5'
 BMS Blue Mist Spirea 3'X3'
 RTD Redtwig Dogwood 5' X 5'
 CTT Tom Thumb Cotoneaster 1'X3'
 CDT Cotoneaster, Shrub 6'X4'
 CHO Rock Cotoneaster 2'X3.5'
 DBB Dwarf Burning Bush 5'X4'
 RBA Russian Sage 4'X3'
 GDF Goldfinger Forsythia 3'X4'
 GDF Gold Drop Potentilla 3' X 3'
 PFS Pawnee Buttes Sand Cherry 1.5'X3'
 GSP 5 Gal. Globe Spruce 3'X4'
 MSL G Gal. Slowmound Mugho Pine 3'X4'
 MMO G Gal. Mops Mugho Pine 5'X6'
 MAQ Oregon Grape Holly 6'X6'
 MGO Compact Oregon Grape Holly 3'X4'-5'
 MRE Mahonia Repens 1.5'X2'
 SEA Seagreen Juniper 8'X6'
 WL Blue Rug Juniper 6'X6'
 ODSF Daphne Spirea 2'X2'
 LPS Little Princess Pink Spirea 2'X3'
 NPS Neon Flash Spirea 3'X3'
 SFQ Fairy Queen Spirea 3'X3'
 MKL Miss Kim Lilac 5'X5'
 GPL Common Purple Lilac 15'X8'
 CSU Staghorn Cutleaf Sumac 8'X6'
 VK5 Koreanspice Viburnum 6' X 6'
 VBM Blue Muffin Viburnum 6'X6'
 DAG Dwarf American Cranberry 6'X4'
 KNP Knockout Pink Rose 3'X3'
 KNR Knockout Red Rose 3'X3'
 CPM Conifer Magna 24-36'X24'
 GAL Gallardia Burgundy 14-24'X12'-24'
 ELA English Lavender 12-18'X12'-18'
 RGD Goldstrum Rudbeckia 30'X24'
 SMN Salvia May Night 18'X18'

Perennials To Be Included In MIX Mixed Annuals/Perennials Areas:
 YAM Yarrow Moonshine/Pink/Yellow 20'X21'
 HSY Hyssop Sunset 24-36'X18'-30'
 REV Red Valerian 24'X24'
 COM Compeopsis Moonbeam 18-24'X12'-18'
 CPM Conifer Magna 24-36'X24'
 GAL Gallardia Burgundy 14-24'X12'-24'
 ELA English Lavender 12-18'X12'-18'
 RGD Goldstrum Rudbeckia 30'X24'
 SMN Salvia May Night 18'X18'

Ornamental Grasses
 FRG Feather Reed Grass 5-6'X24'
 AVG Blue Avena Grass 2'X2'
 PMG Maiden Grass, Purple/Flame 3-4'X18'-24'
 RSG Red Switch Grass 3-4'X24'-30'
 LBG Little Bluestem 3-4'X2'

Precast Concrete Planters 36'X36' 60'X60'
 Fringed Turf (Revelle - Texas Hybrids mx)
 Water Features, Fountains + Falls
 MIX Mixed Annuals/Perennials



Scale: 1" = 20'

0' 10' 20' 30'

North

LEGAL DESCRIPTION:
 LOT 4A, CROWN POINT FILING #1
 LOCATED IN A PORTION OF THE SW 1/4 OF SECTION 3,
 T6S, R66W, 6TH P.M., COUNTY OF DOUGLAS, STATE OF COLORADO

Prepared By:
 Kirby Smith & Associates, Inc.
 Land Planning/Design/Landscape Architecture
 6001 So. Hudson Ct., Centennial, CO 80121
 (303) 694-8484 FAX (303) 694-9272
Job # 408
 CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
 CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

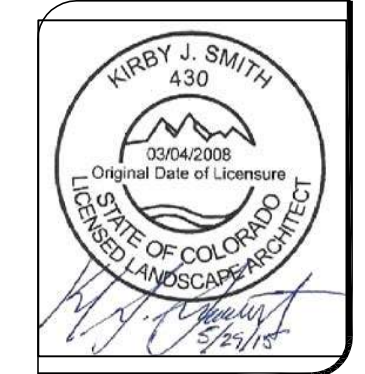
REVISIONS	
DESCRIPTION	DATE

OWNER
SELECT DEVELOPMENT & CONTRACTING, LLC
 660 EAST FRANKLIN ROAD, MERIDIAN, ID 83642

PROJECT
Boondocks Fun Center
 CROWN POINT DEVELOPMENT PARKER, CO

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Peter H. Rockwell, Architect
 Architecture • Planning
 595 S Americana Boulevard Boise, Idaho 83702
 (208) 345-0566 (208) 345-1718 Fax (208) 387-0889
 office@pgrboise.com



CONSTRUCTION DRAWINGS LANDSCAPE PLAN (NORTH)

SHEET DATA
 DRAWN BY: KJS
 CHECKED BY: KJS
 SCALE: 1" = 20'
 DATE: 5/29/15
 PROJECT: 14001
 SHEET NUMBER
L-3



NEW TREE LOCATION

WTE 06.01.2022

- TREE PROTECTION:**
1. NO TREES SHALL BE DAMAGED, HARMED, OR COMPROMISED ON THE PROJECT OR ADJACENT SITES
 - 1.1. PROTECT ALL EXPOSED PARTS OF THE TREE AND ALSO THE SOIL-CRITICAL ROOT ZONE (CRZ) FROM ACTIVITIES THAT MAY BE NEGATIVELY IMPACTFUL TO THE TREE (I.E. COMPACTION, CONTAMINATION, ETC.)
 - 1.2. CRITICAL ROOT ZONE (CRZ): APPROXIMATE AREA DIRECTLY BELOW THE DROPLINE-CANOPY OF ANY TREE
 - 1.3. PRESERVATION CRITERIA: NO MORE THAN 25% OF THE AREA WITHIN THE CRZ SHALL BE IMPACTED, 75% PRESERVATION SHALL BE CONSIDERED PRESERVED
 2. PROTECTION PROCEDURES PRIOR TO CONSTRUCTION
 - 2.1. FLAG ALL TREES WITH BRIGHT FLORESCENT ORANGE TAPE AT 4' HEIGHT OR MORE TO ENSURE PROPER VISIBILITY
 - 2.2. INSTALL PROTECTIVE FENCING WHERE TREE IS CLOSE TO CONSTRUCTION ACTIVITIES WILL INFRINGE UPON THE ROOT ZONE, IMPLEMENT THE FENCE AROUND THE CRZ
 - 2.3. IN THE POSSIBILITY OF INCIDENTAL CONTACT WITH EQUIPMENT, PROTECT THE TREE BARK, ENCIRCLE THE TREE TRUNK WITH 2"x4" LUMBER, SECURED WITH WIRE OR OTHER MEANS THAT DO NOT DAMAGE THE TREE
 3. PROHIBITED ACTIVITIES
 - 3.1. SOIL COMPACTION
 - 3.1.1. DO NOT STORE MATERIALS OR WASTE UNDER THE TREE CANOPY, DO NOT ALLOW FOOT-EQUIPMENT-VEHICLE TRAFFIC WITHIN THE CRZ
 - 3.2. CONTAMINATION
 - 3.2.1. CLEANING OF EQUIPMENT AND ADJACENT SURFACES WITHIN-ONTO LIMITS OF THE CRZ
 - 3.2.2. THIS INCLUDES, WITHOUT LIMITATION TO: PAINT, OIL, SOLVENTS, ASPHALT, CONCRETE, MORTAR OR SIMILAR PRODUCTS
 - 3.3. OBJECTS ATTACHED TO TREES
 - 3.3.1. NO SIGNS, WIRES OR ANY PHYSICAL ENTITY OTHER THAN THAT OF PROTECTIVE NATURE SHALL BE SECURED TO TREES
 - 3.4. GRADE CHANGES
 - 3.4.1. NO GRADE CHANGES IN EXCESS OF 2" (GUT-FILL) SHALL BE ALLOWED WITHIN THE CRZ LIMITS, UNLESS ADEQUATE MEASURE APPROVED BY THE BUILDING OFFICIAL HAVE BEEN IMPLEMENTED
 - 3.5. IMPERVIOUS PAVING
 - 3.5.1. CONCRETE, ASPHALT OR OTHER IMPERVIOUS PAVING MATERIALS SHALL BE INTEGRATED IN A MANNER WHICH MAY REASONABLE KILL THE TREE

LANDSCAPE NOTES:
THE LOCATION OF THIS NEW ROPES COURSE ATTRACTION DOES NOT AFFECT THE MAJORITY OF THE LANDSCAPING. PLACEMENT OF ROPES COURSE ONLY AFFECTS A SINGLE TREE IN THE CENTER PATIO PLANTER, NEXT SHEET PROVIDES FURTHER NOTATION. SEE DETAILS ON THIS SHEET FOR TREE CONSERVATION INFORMATION.

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LOCATED IN A PORTION OF THE SW 1/4 OF SECTION 3,
T6S, R66W, 6TH P.M., COUNTY OF DOUGLAS, STATE OF COLORADO

Notes:
Additional design work may be required
Final course design subject to change per engineering
Product pictured may contain custom components
Colors shown may vary from delivered product. Physical samples available upon request
Field verify all dimensions, heights and clearances prior to engineering

R6.01_Boondocks Food and Fun - Parker.skp
January 06, 2022
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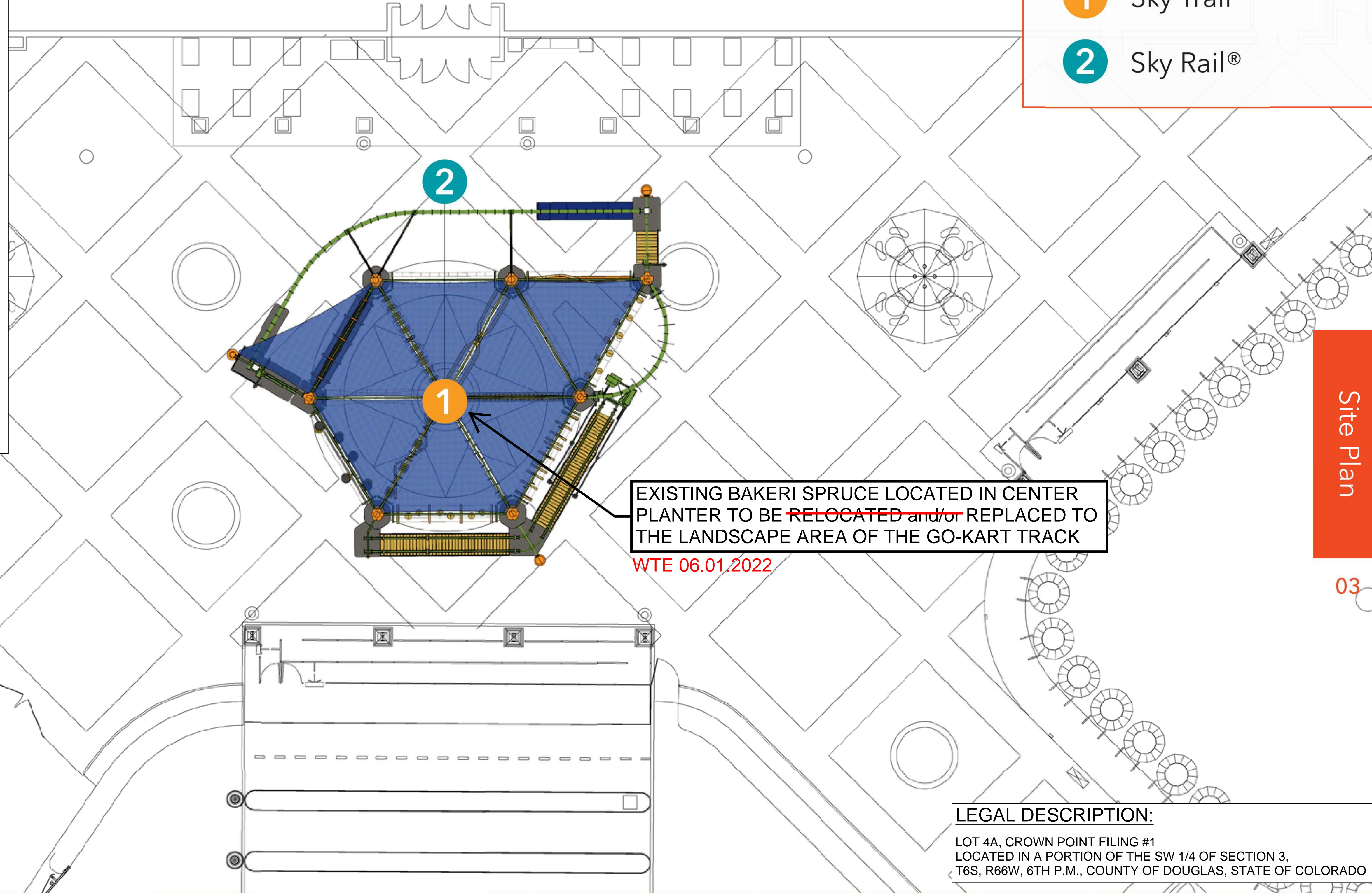
SITE PLAN NOTES:

1. MULTI-POST ROPES COURSE ATTRACTION DESIGN, ENGINEERED, and INSTALLED BY MANUFACTURER TO BE LOCATED ON EXISTING IN PATIO AREA.
2. INSTALLATION OF UNIT WILL NOT DISTURB EXISTING GRADE ELEVATIONS, UNDERGROUND UTILITIES, and/or LIGHTING.
3. NEW ROPES COURSE IS A FREESTANDING STRUCTURE and DOES NOT AFFECT THE EXISTING BUILDING ELEVATIONS.
4. CENTER COLUMN FOR ROPES COURSE STRUCTURE IS LOCATED IN THE CENTER OF AN EXISTING PLANTER ISLAND. THAT EXISTING BAKERI SPRUCE WILL BE RELOCATED and/or REPLACED WITH NEW LOCATION IN THE LANDSCAPE AREA OF THE GO-KART TRACK. REFER TO OVERALL SITE PLAN FOR THAT LOCATION.
5. IN ADDITION TO THE RELOCATED BAKERI SPRUCE AN ADDITIONAL BAKERI SPRUCE OF SIMILAR SIZE AND CALIPER WILL BE ADDED TO THAT GO-KART LANDSCAPE AREA.



LEGEND

- 1 Sky Trail®
- 2 Sky Rail®



EXISTING BAKERI SPRUCE LOCATED IN CENTER PLANTER TO BE ~~RELOCATED~~ and/or REPLACED TO THE LANDSCAPE AREA OF THE GO-KART TRACK

WTE 06.01.2022

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Site Plan

03

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DIMENSIONS							
8 Pole 2 Level Sky Trail® Discovery with (1) 60° Sky Rail®							
# of Elements	Capacity	Imperial (ft/in)			Metric (m)		
		Length	Width	Area	Length	Width	Area
28	40	67' 8"	57' 5"	3886 ft ²	20.63m	17.51m	361m ²
Distance Between Columns		20' 0"			6.10m		
Total Sky Rail® Length		67' 5"			20.55m		
Clearance Under Course		9' 0"			2.74m		
Platform Heights		12' 0" / 24' 0"			3.66m / 7.32m		
Top of Steel Height		38' 0"			11.59m		
Features		Sky Rail® Popular Elements: - Rolling Log - Roller Rail					

Customizations:

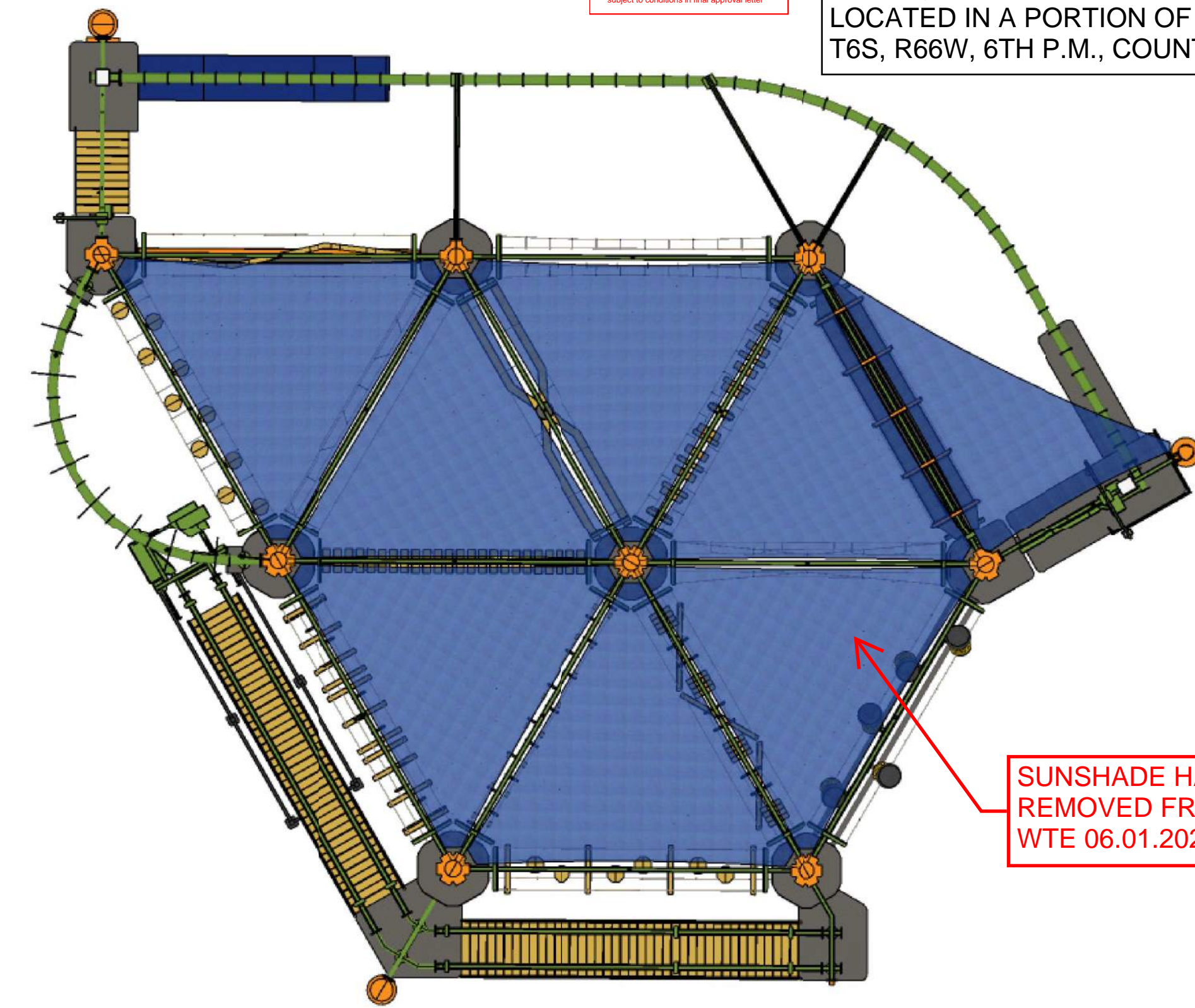
- Column hand holes - See column details
- Sun shade over takeoff platform

COLORS APPROVED

Platforms: Iron Horse	Horizontals: Green Gone Wild	Verticals: Mandarin	Plumber: Cedar	Slingline: Brown	Pad: Royal Blue	Sun Shades: Aquatic Blue
			Rope: Tan			

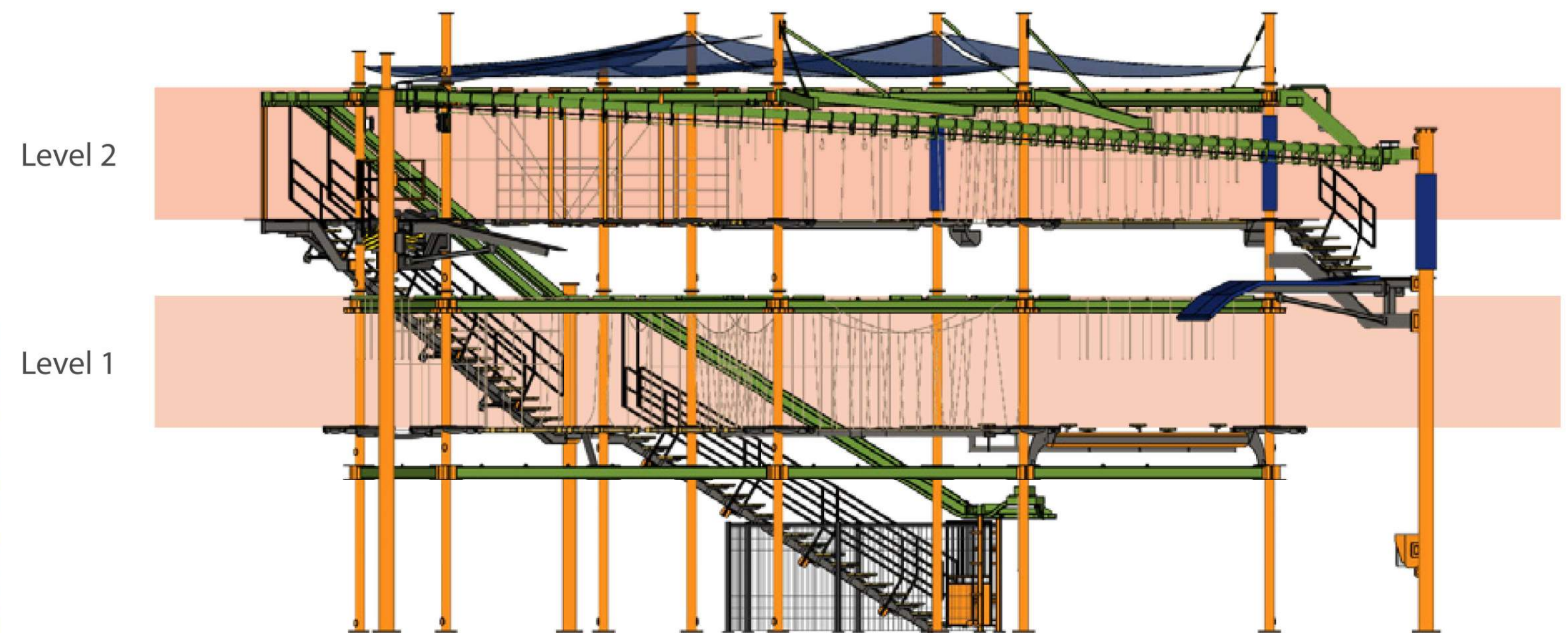
FINAL COLOR SCHEME

Notes:
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SUNSHADE HAVE BEEN REMOVED FROM THE PROJECT WTE 06.01.2022

PLAN



ELEVATION

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October 26, 2021

DESIGN CODES
 THE STRUCTURE IS DESIGNED ACCORDING TO THE LATEST EDITION OF THE 2018 IBC, RCSC SPECIFICATION FOR STRUCTURAL JOINTS, AND ASTM F2599-12 STANDARD PRACTICE FOR AERIAL ADVENTURE COURSES.
 THE STRUCTURAL STEEL IS DESIGNED TO THE LATEST EDITION OF THE AISC 360-16 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.
 THE STRUCTURAL WELDING IS DESIGNED AND PERFORMED ACCORDING TO THE LATEST EDITION OF AWS D1.1 STRUCTURAL STEEL.
 ALL LOADS ARE CALCULATED BASED ON THE ASCE7-16 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.

OCCUPANCY CLASSIFICATION = A-3

COURSE MAX OCCUPANCY = 40

CONSTRUCTION TYPE = IIB

DESIGN LOADS

DEADLOAD
 STRUCTURAL STEEL = FRAME WEIGHT
 LIVE LOAD
 PLATFORMS = 100 PSF or (4.788 KN/m²)
 STAIRS AND EXITS = 100 PSF or (4.788 KN/m²)
 ROLLER RAIL = 2000 LB or (8.90 KN)
 PLATFORM EDGE ELEMENT LOAD = 200 LB (0.89 KN) VERTICAL/2000 LB (8.90 KN) HORIZONTAL WIND LOAD
 115 MPH (PARKER MUNICIPAL CODE)

SEISMIC LOAD
 AMUSEMENT STRUCTURES AND MONUMENTS
 R = 2
 I = 1
 S_s = 0.2
 F_a = 1.6
 SITE CLASS = D
 DESIGN CATEGORY = A

STRUCTURAL STEEL
 ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "SPECIFICATIONS FOR THE DESIGN FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS"

STRUCTURAL STEEL TO CONFORM TO:
 TUBE STEEL (HSS HOLLOW STRUCTURAL SECTION) = A-500 GRADE B
 STRUCTURAL STEEL PLATE = A-36
 ANCHOR BOLTS = A-36 OR F-1554 GRADE 36
 PIPE = A53 GRADE B OR A500 GRADE C
 SS ROUND = 304/304L STAINLESS STEEL (F_y = 50 KSI) or (344.737 MPa)
 THESE MATERIAL SPECIFICATIONS SHALL BE USED UNLESS NOTED OTHERWISE.

WELDING
 ALL WELDING TO BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY (AWS) "STRUCTURAL WELDING CODE - STEEL" D1.1 AND AS INDICATED ON THE STRUCTURAL DRAWINGS. WELDING ELECTRODES, WELDING PROCESS, MINIMUM PREHEAT AND INTERPASS TEMPERATURES TO BE IN ACCORDANCE WITH THE AWS SPECIFICATIONS. ELECTRODES TO BE MIN 70KSI MATERIAL.

CONCRETE
 1. ALL CONCRETE SHOULD HAVE STONE AGGREGATE (NORMAL WEIGHT). 28-DAY COMPRESSIVE STRENGTH (f'_c) SHOULD BE 4000PSI or 27.58 MPa MINIMUM FOR CAST-IN-PLACE CONCRETE.
 2. REINFORCING BARS SHOULD BE MILD STEEL WITH A MINIMUM YIELD STRENGTH OF 60 KSI or 413.685 MPa.
 3. REINFORCING BAR PROTECTION:
 A. CONCRETE PLACED AGAINST EARTH - 3" or 7.5 cm
 B. CONCRETE PLACED IN FORMS - 1 1/2" or 3.81 cm
 4. FIELD WELDING OF REINFORCING SHOULD NOT BE PERMITTED.
 5. ALL REINFORCING BAR BENDS SHOULD BE MADE MECHANICALLY HEAT-BENDING SHOULD NOT BE PERMITTED.
 6. NON-SHRINK GROUT = 5000 PSI or 34473.79 KN/m²

FOUNDATIONS
 BASED UPON PRESUMPTIVE LOAD-BEARING VALUES OF SOILS FROM SECTION 1806 OF IBC 2009.
 ALLOWABLE FOUNDATION PRESSURE = 1500 PSF or 71.82 KN/m²
 LATERAL BEARING = 100 PSF/FT or (4.788 KN/m² per 30.48cm) BELOW GRADE
 LATERAL SLIDING = 130 PSF or 6.274 KN/m²

BOLTING
 ALL BOLTS ARE A325 BOLTS WITH HEAVY HEX NUTS. THE BOLTS ARE TO BE INSTALLED UTILIZING THE "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS" AS PREPARED BY RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCS) FOR THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC). THE BOLTS SHALL BE INSTALLED AS PRETENSIONED USING DIRECT TENSION INDICATING WASHERS.

IT IS THE RESPONSIBILITY OF THE INSTALLER TO INSURE PROPER TIGHTNESS.

ALL JOINTS MUST BE *SNUG-TIGHTENED* PRIOR TO *PRETENSIONING*.
 ALL JOINTS MUST BE *SNUG-TIGHT* UNLESS OTHERWISE SPECIFIED.

SNUG-TIGHT PROCEDURE

ALL BOLT HOLES SHALL BE ALIGNED TO PERMIT INSERTION OF THE BOLTS WITHOUT UNDUE DAMAGE TO THE THREADS. BOLTS SHALL BE PLACED IN ALL HOLES WITH WASHERS AND DIRECT-TENSION-INDICATORS (DTI) AS REQUIRED AND NUTS TIGHTENED TO COMPLETE THE ASSEMBLY. THE DTI MUST ALWAYS BE INSTALLED WITH THE PROTRUSIONS POINTING OUTWARD AWAY FROM THE STEEL AND FACING INTO THE BOLT HEAD/UT.

WHEN A DTI IS USED AN ASTM F436 WASHER SHALL BE USED IN ONE OF THE FOLLOWING CONFIGURATIONS:
 1) WHEN THE NUT IS TURNED AND THE DTI IS LOCATED UNDER THE BOLT HEAD, AN ASTM F436 WASHER SHALL BE USED UNDER THE NUT
 2) WHEN THE NUT IS TURNED AND THE DTI IS LOCATED UNDER THE NUT, AN ASTM F436 WASHER SHALL BE USED BETWEEN THE NUT AND THE DTI
 3) WHEN THE BOLT HEAD IS TURNED AND THE DTI IS LOCATED UNDER THE NUT, AN ASTM F436 WASHER SHALL BE USED UNDER THE BOLT HEAD.
 4) WHEN THE BOLT HEAD IS TURNED AND THE DTI IS LOCATED UNDER THE BOLT HEAD, AND ASTM F436 WASHER SHALL BE USED BETWEEN THE BOLT HEAD AND THE DTI.

ANY OF THE PRECEDING CONFIGURATIONS ARE ACCEPTABLE AND CAN BE SELECTED BY THE INSTALLER ON A JOINT-BY-JOINT BASIS. HOWEVER ALL OF THE CONNECTIONS IN THIS PLAN SET ARE DETAILED USING CONFIGURATION #3.

COMPACTING THE JOINT TO A *SNUG-TIGHT* CONDITION SHALL BE ACHIEVED USING THE *SYSTEMATIC TIGHTENING* METHOD. THE *SNUG-TIGHTENED* CONDITION IS THE TIGHTNESS THAT IS ATTAINED WITH A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF AN IRONWORKER USING AN ORDINARY SPUD WRENCH TO BRING THE CONNECTED PLIES INTO FIRM CONTACT.

DTI PRETENSIONING PROCEDURE

ALL BOLTS TO BE *PRETENSIONED* SHALL FIRST BE INSTALLED IN ACCORDANCE WITH THE *SNUG-TIGHT* PROCEDURE.

AN F436 WASHER IS ALWAYS REQUIRED WHEN A DTI IS USED. VISUALLY VERIFY THAT THE *SNUG-TIGHTENED* CONDITION, WITH FIRM CONTACT, HAS BEEN ACHIEVED.

VERIFY THAT THE DTI HAS NOT BEEN OVER-COMPRESSED BY THE SNUGGING ACTIVITY BY CONFIRMING THAT AT LEAST HALF OF THE GAPS IN THE DTI WOULD ACCEPT THE APPROPRIATE THICKNESS FEELER GAGE (0.005in OR 0.127mm) FOR GALVANIZED FASTENERS.

USING THE *SYSTEMATIC TIGHTENING* METHOD, TIGHTEN EACH BOLT/NUT IN THE JOINT. TIGHTEN UNTIL THE FEELER GAGE WOULD BE REFUSED ENTRY INTO AT LEAST HALF OF THE DTI GAPS. THE FASTENER SHOULD NOT BE TIGHTENED TO THE POINT WHERE NO GAP IS VISIBLE BETWEEN THE DTI'S PROTRUDED SURFACE AND THE BOLT/WASHER/NUT SURFACE.

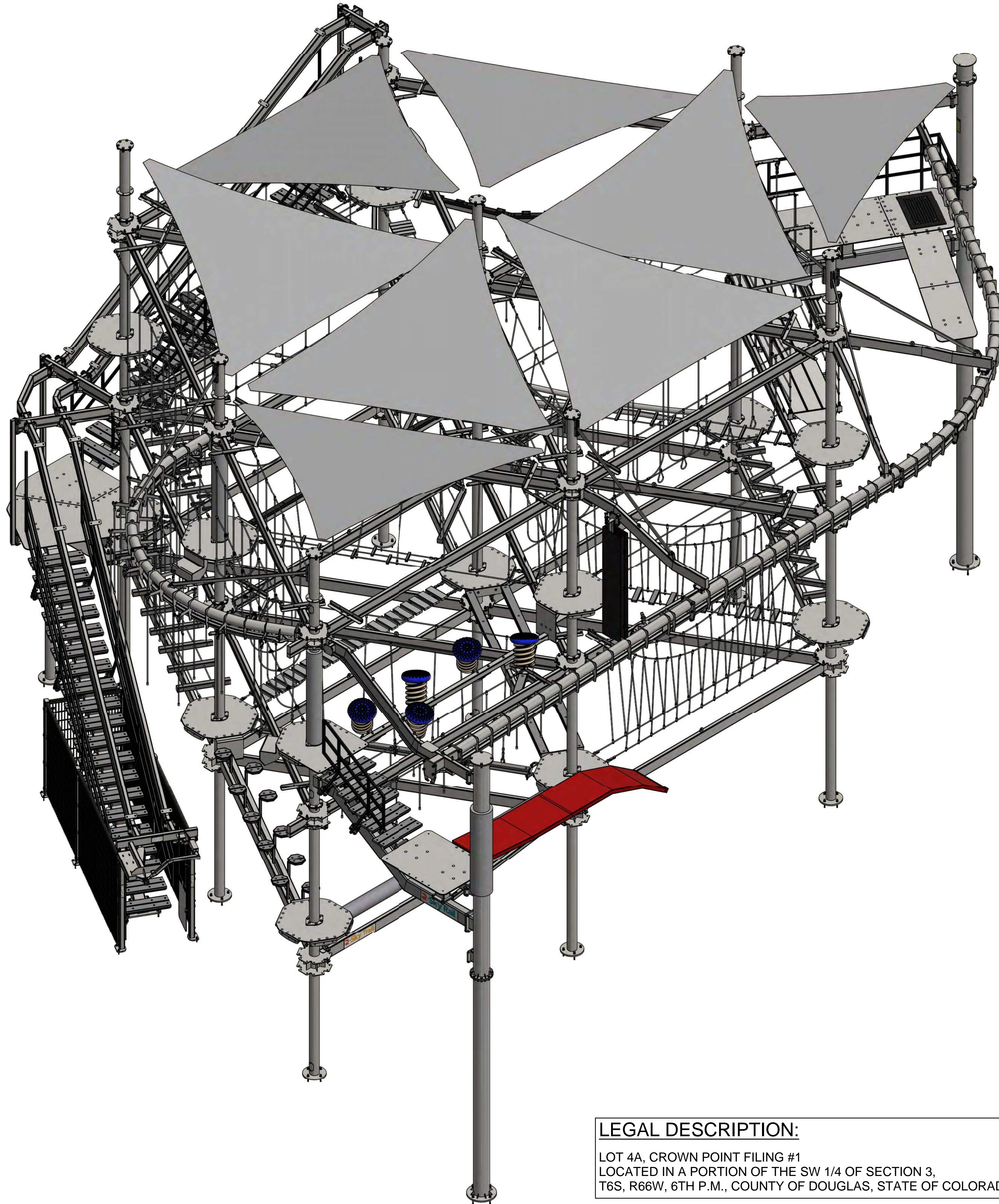
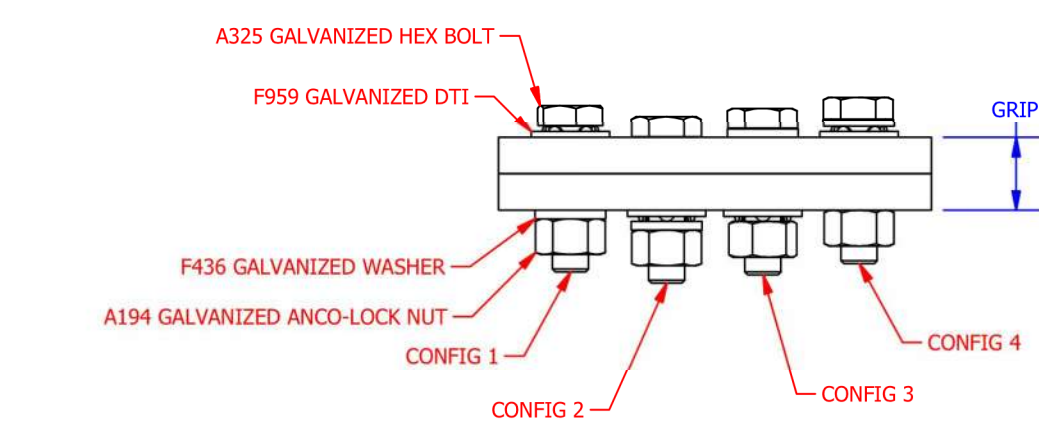
SYSTEMATIC TIGHTENING

A PATTERN SHOULD BE CHOSEN FOR SNUGGING THE JOINT SO THAT THE JOINT IS DRAWN TOGETHER WITHOUT UNDUE BENDING OF ANY OF THE CONNECTION PARTS. ACHIEVING THE CONDITION OF *SNUG-TIGHT*. THE PATTERN SHOULD ALSO BE USED SO THAT BOLTS ARE NOT INADVERTENTLY MISSED DURING EITHER SNUGGING OR PRETENSIONING.

THE JOINT SHOULD BE SNUGGED STARTING AT THE MOST RIGID PART OF THE JOINT. IN A JOINT WITH A SINGLE OR DOUBLE ROW OF BOLTS, THIS WOULD BE WHERE THE STEEL IS ALREADY IN CONTACT, WORKING TOWARD THE END WHERE THE STEEL MAY NOT BE IN CONTACT. IF THERE IS SOLID CONTACT BETWEEN THE STEEL AT ALL LOCATIONS, THE DIRECTION OF SNUGGING DOES NOT MATTER.

IN JOINTS WITH THICK COMPONENTS OR MULTIPLE PLIES, SEVERAL PASSES WITH THE WRENCH MAY BE NECESSARY TO BRING THE PARTS INTO FIRM CONTACT.

AFTER THE JOINT HAS BEEN COMPLETELY SNUGGED, *PRETENSIONING* OF THE BOLTS SHOULD FOLLOW THE SAME SYSTEMATIC PATTERN USED FOR SNUGGING, IN A MANNER THAT MINIMIZES THE LOOSENING OF PREVIOUSLY INSTALLED BOLTS.



1.0 SHEET :
 SITE ADDRESS: BOUNDDOCKS FOODTRUCK-PARKER 18796 COTTONWOOD DR, PARKER CO 80138, USA
 PROJECT NAME: BOUNDDOCKS FOOD & BEV. - PARKER
 JOB NO: 10615
 DESCRIPTION: 8 POLE 2 LEVEL CUSTOM SKY TRAIL@ DISCOVERY WITH (1) 60' SKY RAIL@ AND SUN SHADES
 AUTHOR: ROSTAM DATE: 11/23/2021 REV:



COVER SHEET

Troy Garland

Digitally signed by Troy Garland
 DN: cn=Troy Garland c=US
 l=Hamilton o=Troy Garland
 e=troy@tgsstructural.com
 Reason: Engineering Seal
 Location: Hamilton, MI
 Date: 2022-02-01 09:39:05:00

TABLE OF CONTENTS	
SHEET NUMBER	SHEET TITLE
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2.0	COURSE FOOTING LAYOUT
2.1	FOUNDATION DETAILS
2.2	COURSE LOCATION
3.0	7TH FLOOR FRAME LAYOUT
3.1	GROUND LEVEL FRAME DETAILS
3.2	FIRST LEVEL FRAME DETAILS
3.3	SECOND LEVEL FRAME DETAILS
3.4	SKY RAIL FRAME DETAILS
3.5	SUN SHADE FRAME DETAILS
3.6	COLUMNS WITH HAND HOLES DETAILS
4.0	CONNECTION DETAILS
4.1	CONNECTION DETAILS
4.2	SKY RAIL CONNECTION DETAILS
4.3	SKY RAIL INSTALLATION MECHANICAL DETAILS
5.0	FIRST LEVEL ELEMENT LAYOUT
5.1	SECOND LEVEL ELEMENT LAYOUT
5.2	ELEMENT CONNECTIONS

LEGAL DESCRIPTION:

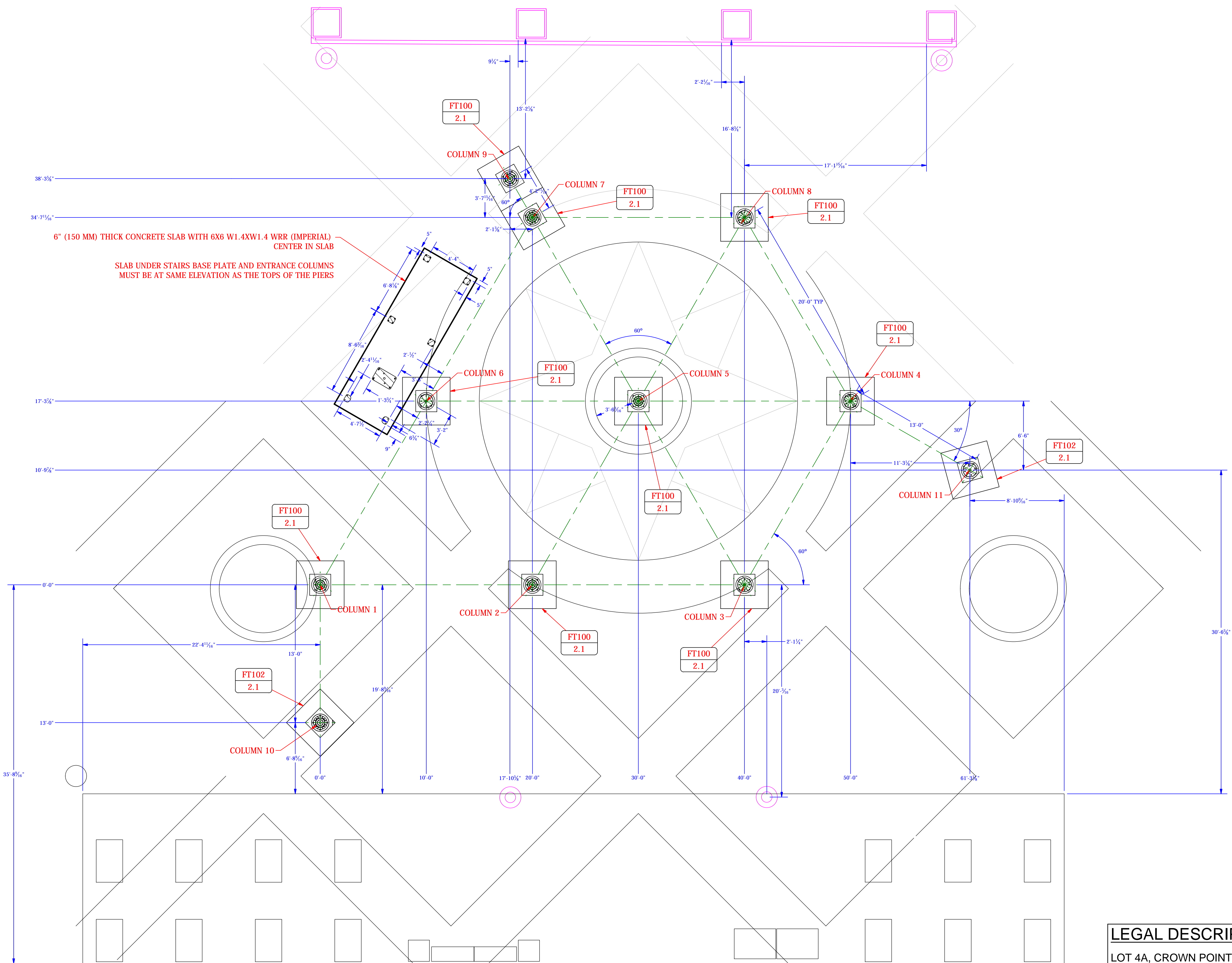
LOT 4A, CROWN POINT FILING #1
 LOCATED IN A PORTION OF THE SW 1/4 OF SECTION 3,
 T6S, R66W, 6TH P.M., COUNTY OF DOUGLAS, STATE OF COLORADO



SHEET:
 1.0

FOUNDATION TYPE IS DRILLED PIER FOUNDATION.

TABLE		
COLUMN #	LOCAL ELEVATION	SURVEY ELEVATION
COLUMN 1	1.72	5809.47
COLUMN 2	0.00	5807.75
COLUMN 3	0.12	5807.87
COLUMN 4	0.00	5807.75
COLUMN 5	1.79	5809.54
COLUMN 6	0.00	5807.75
COLUMN 7	0.12	5807.87
COLUMN 8	0.12	5807.75
COLUMN 9	0.17	5807.92
COLUMN 10	0.17	5807.92
COLUMN 11	0.00	5807.75

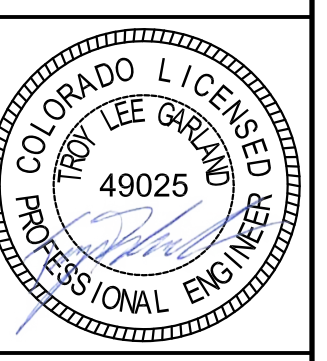


LEGAL DESCRIPTION:
 LOT 4A, CROWN POINT FILING #1
 LOCATED IN A PORTION OF THE SW 1/4 OF SECTION 3,
 T6S, R66W, 6TH P.M., COUNTY OF DOUGLAS, STATE OF COLORADO

SITE ADDRESS: 30 ANDOCKS FOOD & FUN - PARKER
 18706 COTTONWOOD DR. PARKER, CO. 80138
 PROJECT NAME: 80138-001
 JOB NO: 1061 BROADDOCKS FOOD & FUN
 DESCRIPTION: BUDGET LEVEL CUSTOM SKY TRAIL @ DISCOVERY WITH (1) 60° SKY
 AUTHOR: ROBERT H. HARRIS, P.E.

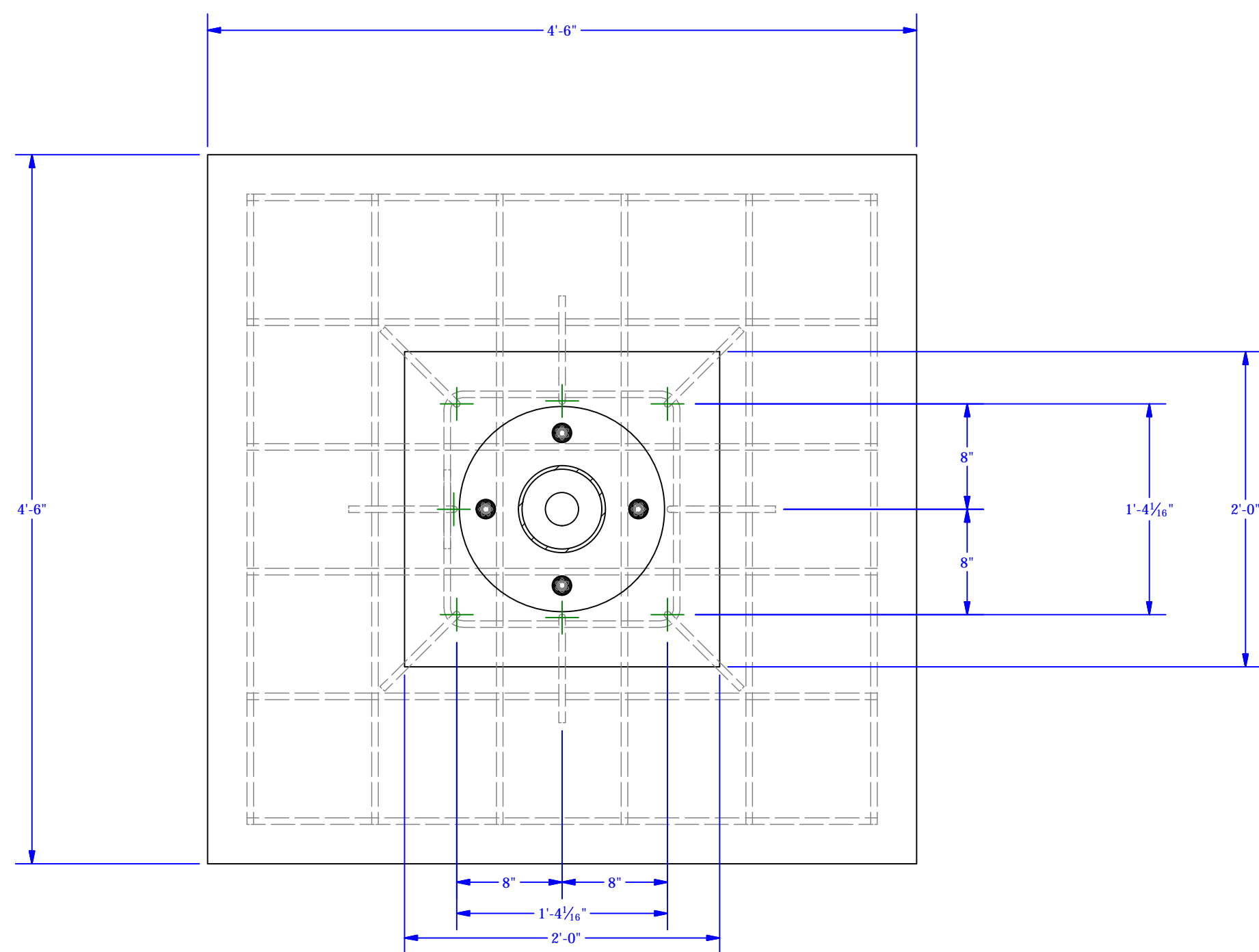
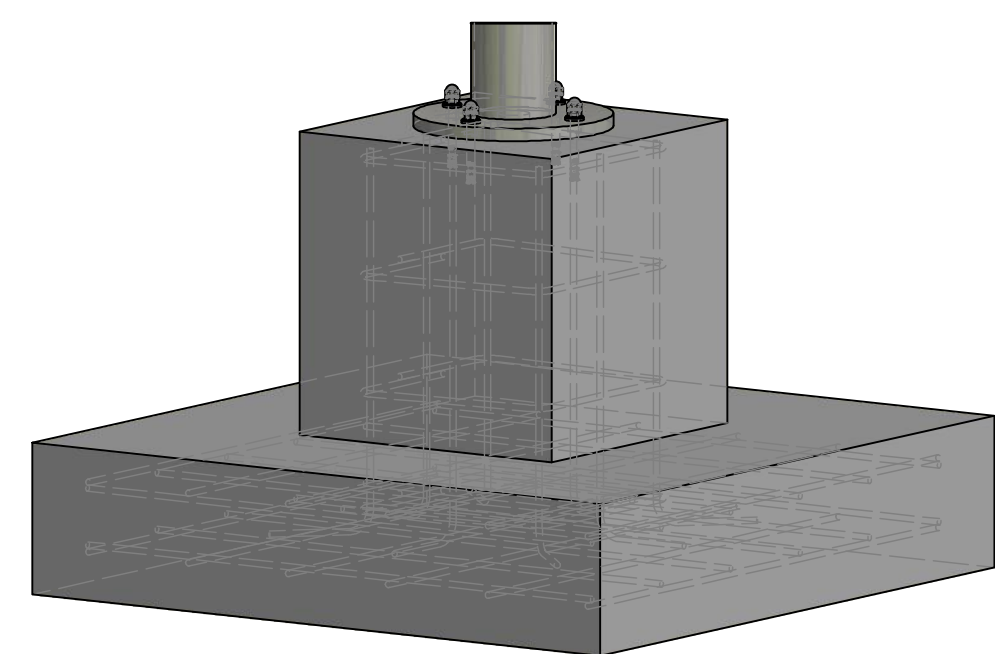


COURSE FOOTING LAYOUT

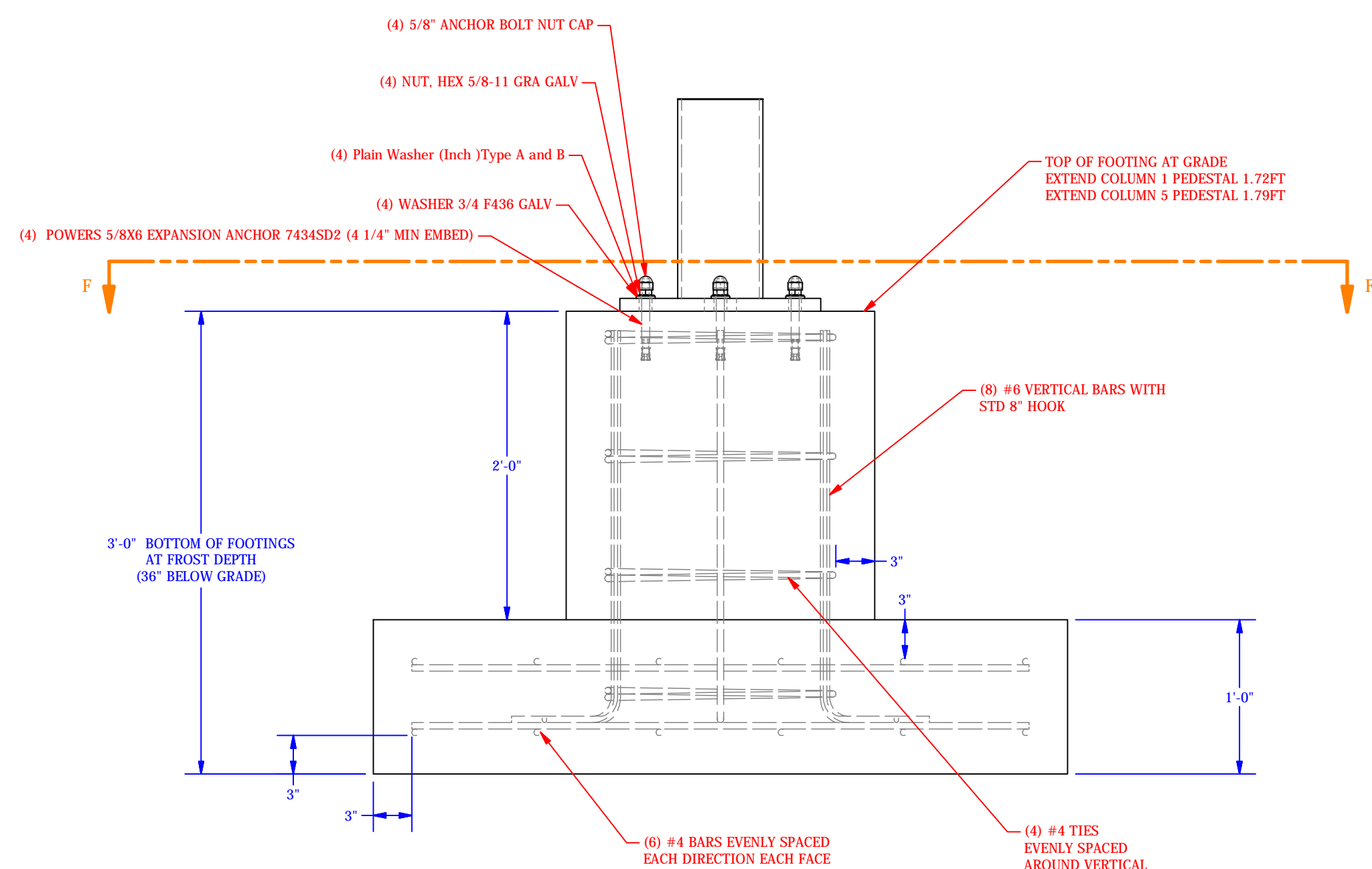


NOTES:

1. FOOTINGS ARE DESIGNED FOR A MAXIMUM VERTICAL BEARING PRESSURE OF 1,500 PSF (PER IRC 1804.2, LOWEST PRESUMPTIVE LOAD BEARING VALUE)
2. FOUNDATION BACKFILL SHOULD CONSIST OF THE EXISTING SANDY FILL OR GRANULAR IMPORT MATERIAL. BACKFILL SHOULD BE PLACED IN THIN, LOOSE LIFTS, MOISTURE CONDITIONED TO WITHIN 2% OF OPTIMUM MOISTURE CONTENT, AND COMPACTED TO AT LEAST 95% OF MAXIMUM MODIFIED PROCTOR DRY DENSITY.
3. CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI
4. REINFORCEMENT SHALL BE GRADE 60 DEFORMED BARS



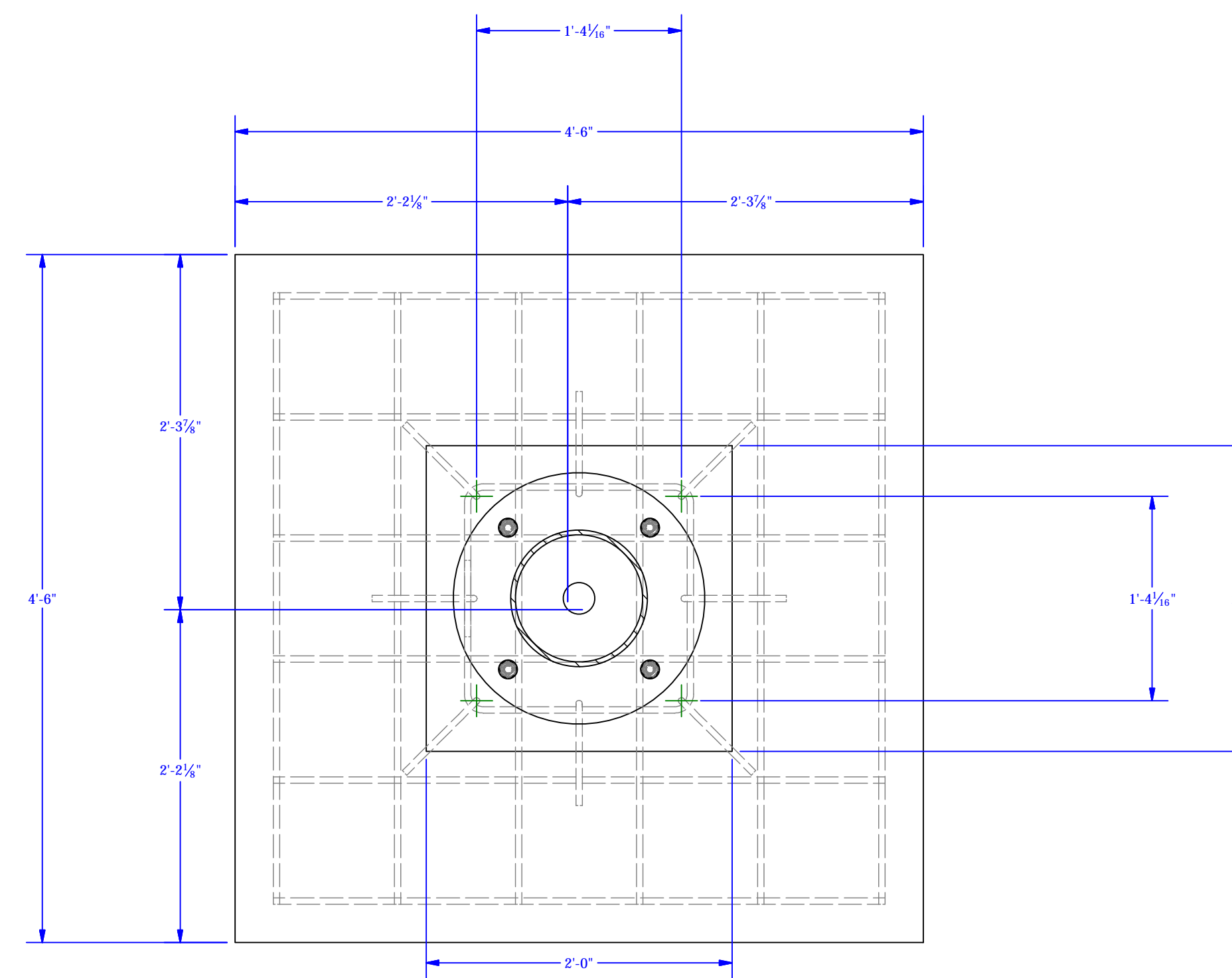
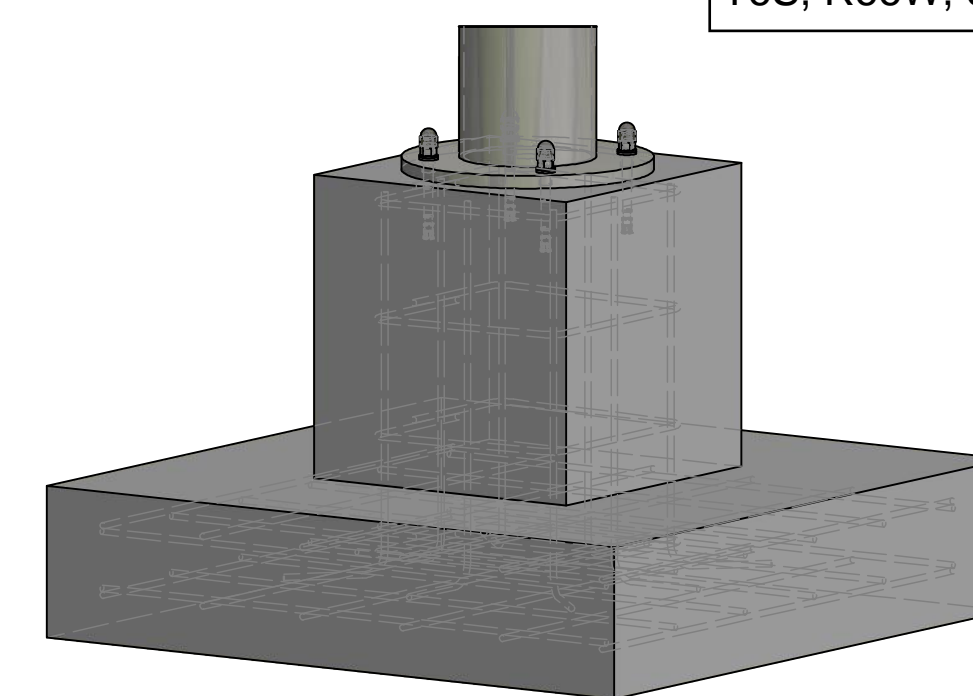
VIEW F-F
SCALE 1/10



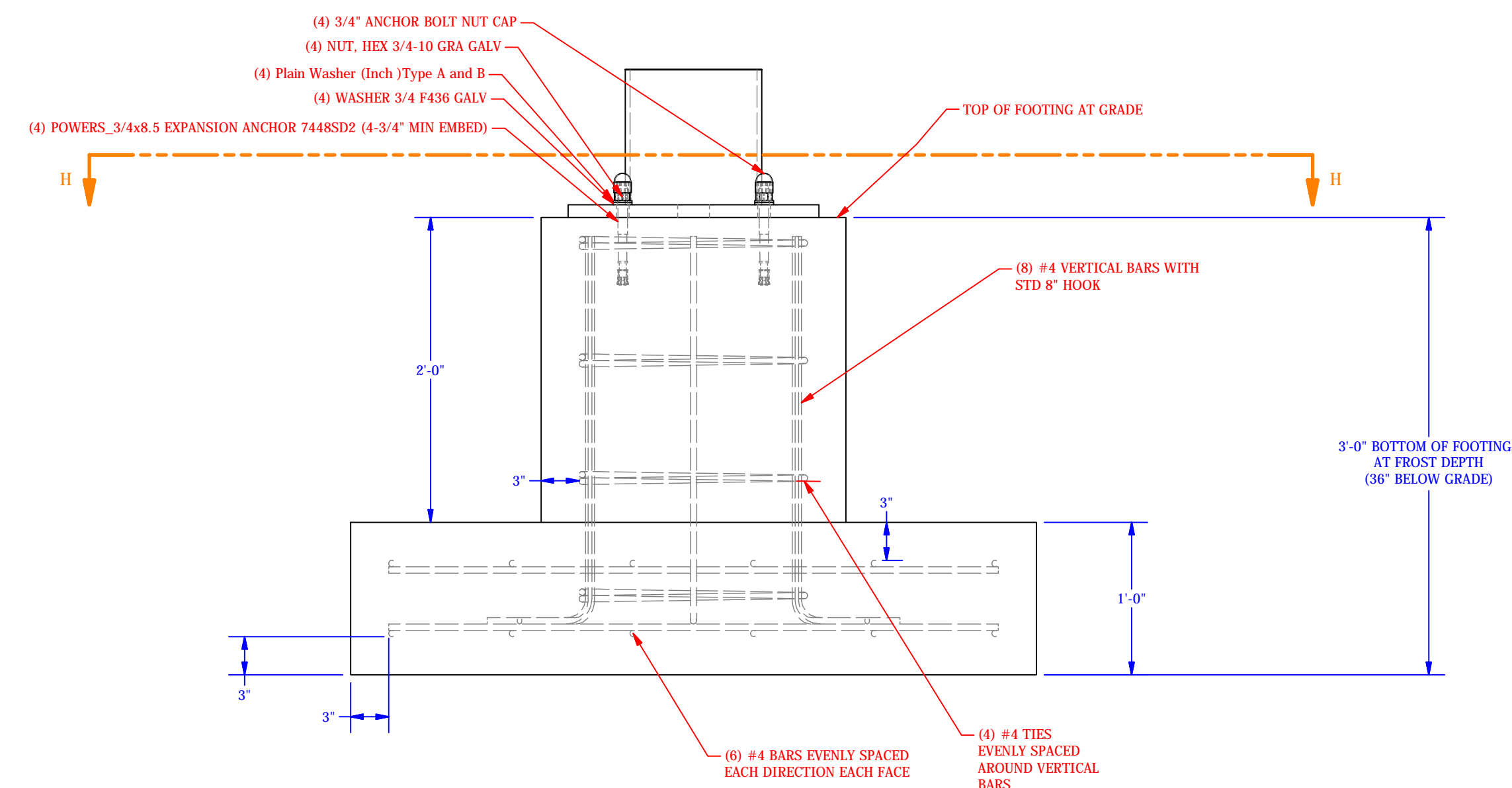
FT100 - MAIN COLUMN SPREAD FOOTING

LEGAL DESCRIPTION:

LOT 4A, CROWN POINT FILING #1
LOCATED IN A PORTION OF THE SW 1/4 OF SECTION 3,
T6S, R66W, 6TH P.M., COUNTY OF DOUGLAS, STATE OF COLORADO



VIEW H-H
SCALE 1/10

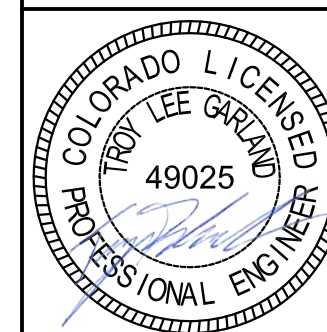


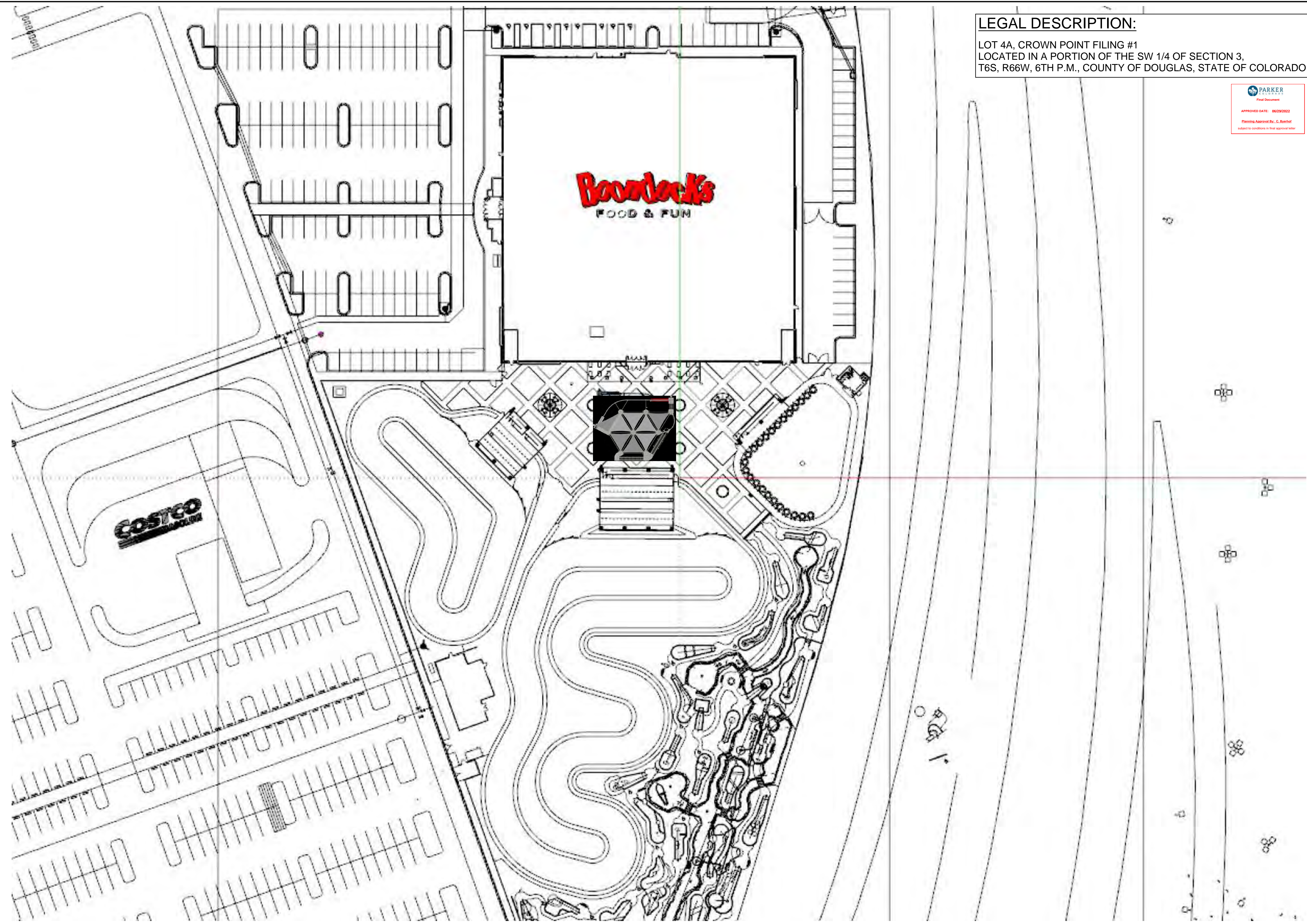
FT101 - SKY RAIL COLUMN SPREAD FOOTING

SHEET:	2.1
SITE ADDRESS:	BOONDOCKS FOODTRUCK PARKER 18706 COTTONWOOD DR. PARKER CO 80138, USA
JOB NO.:	10615
PROJECT NAME:	BOONDOCKS FOOD & RUN - PARKER
DESCRIPTION:	8 POLE 2 LEVEL CUSTOM SKY RAIL - DISCOVERY WITH (1) 60' SKY RAIL - AND SUN SHADES
AUTHOR:	ROSTAM
DATE:	09/08/2021
REV:	



COURSE FOUNDATIONS DETAILS





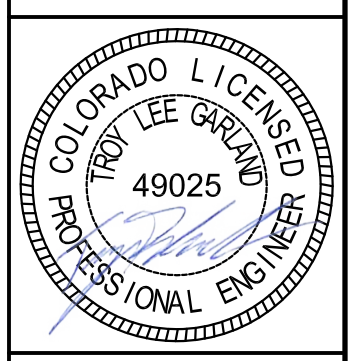
LEGAL DESCRIPTION:
 LOT 4A, CROWN POINT FILING #1
 LOCATED IN A PORTION OF THE SW 1/4 OF SECTION 3,
 T6S, R66W, 6TH P.M., COUNTY OF DOUGLAS, STATE OF COLORADO



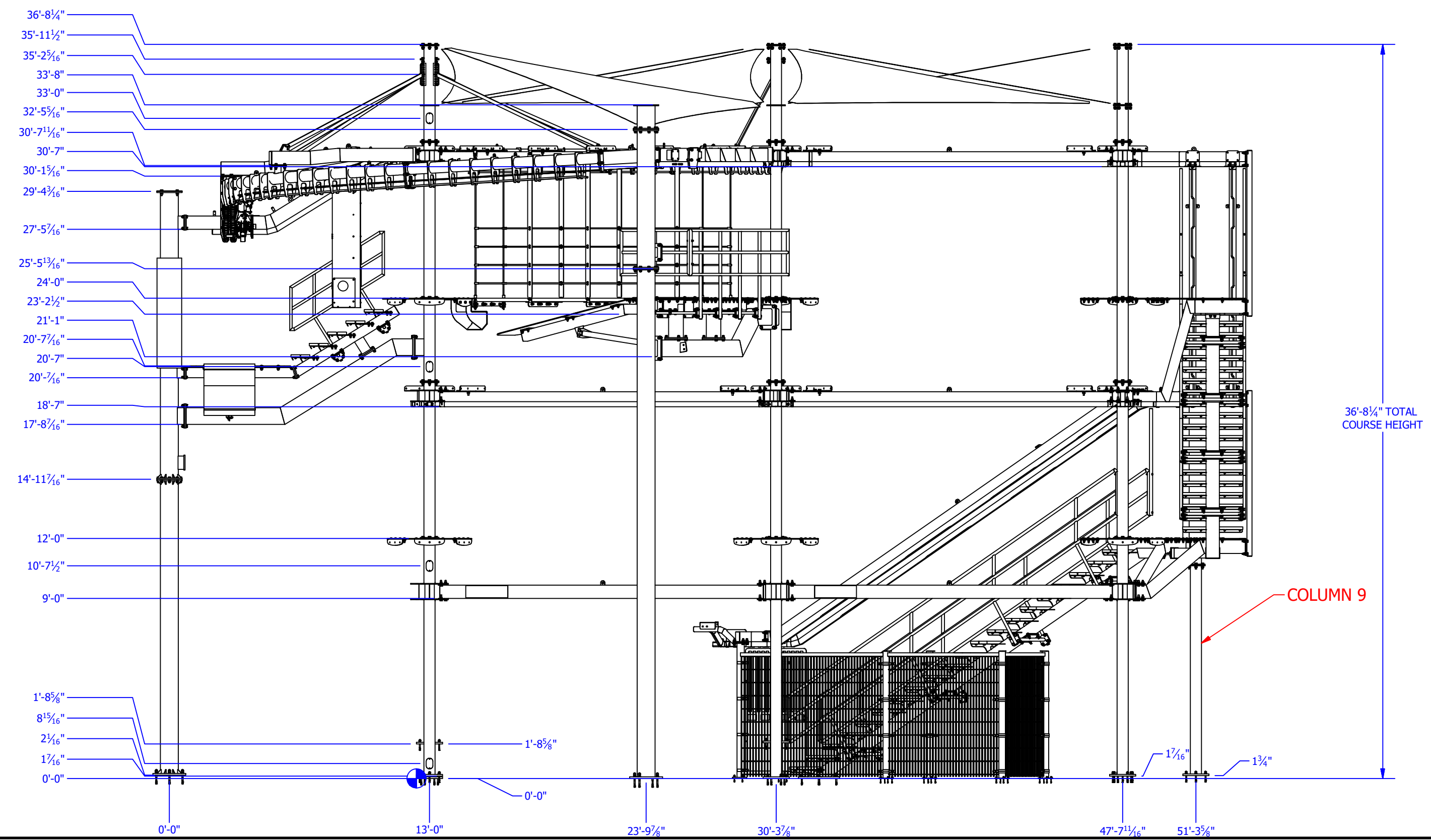
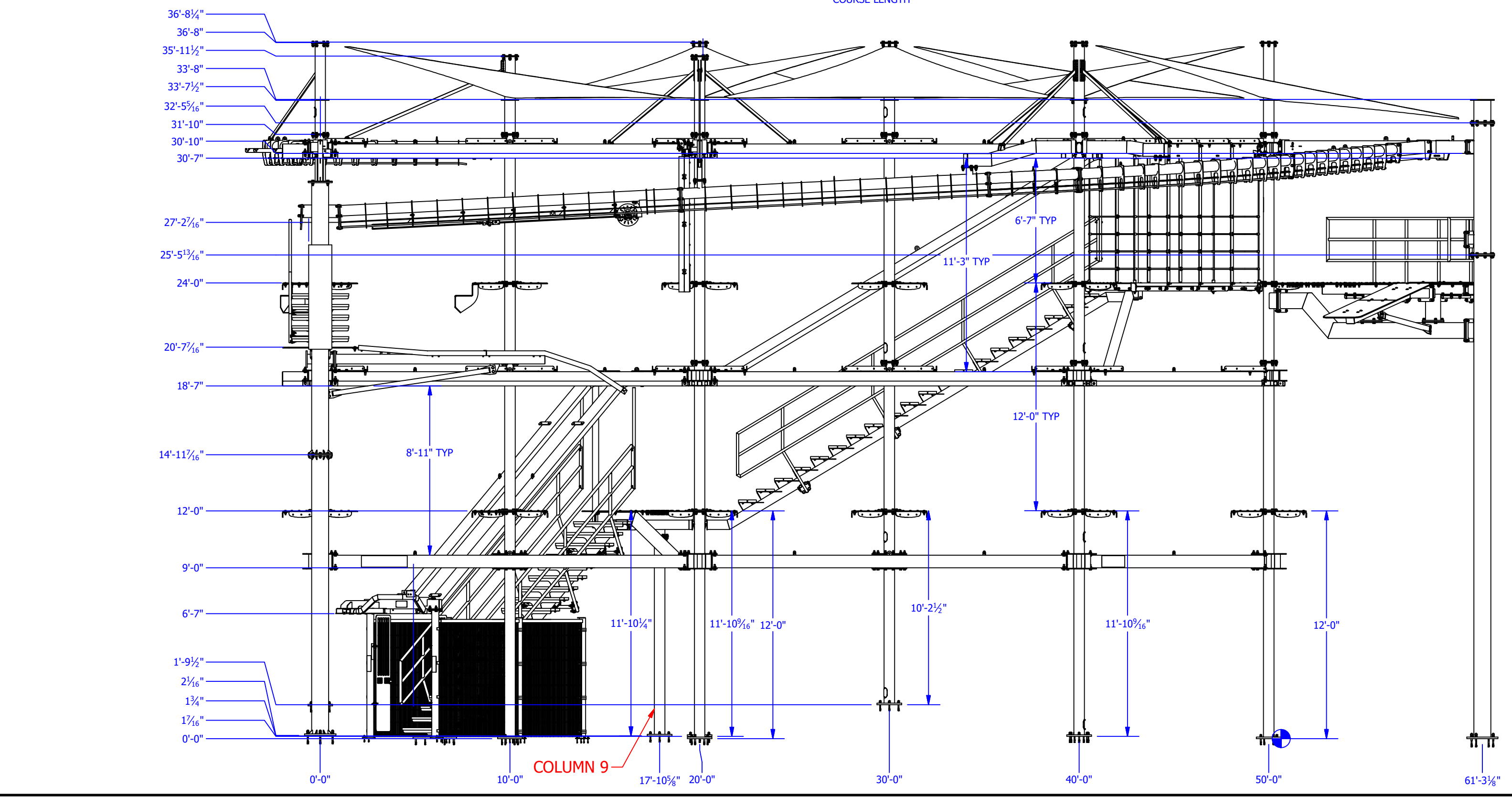
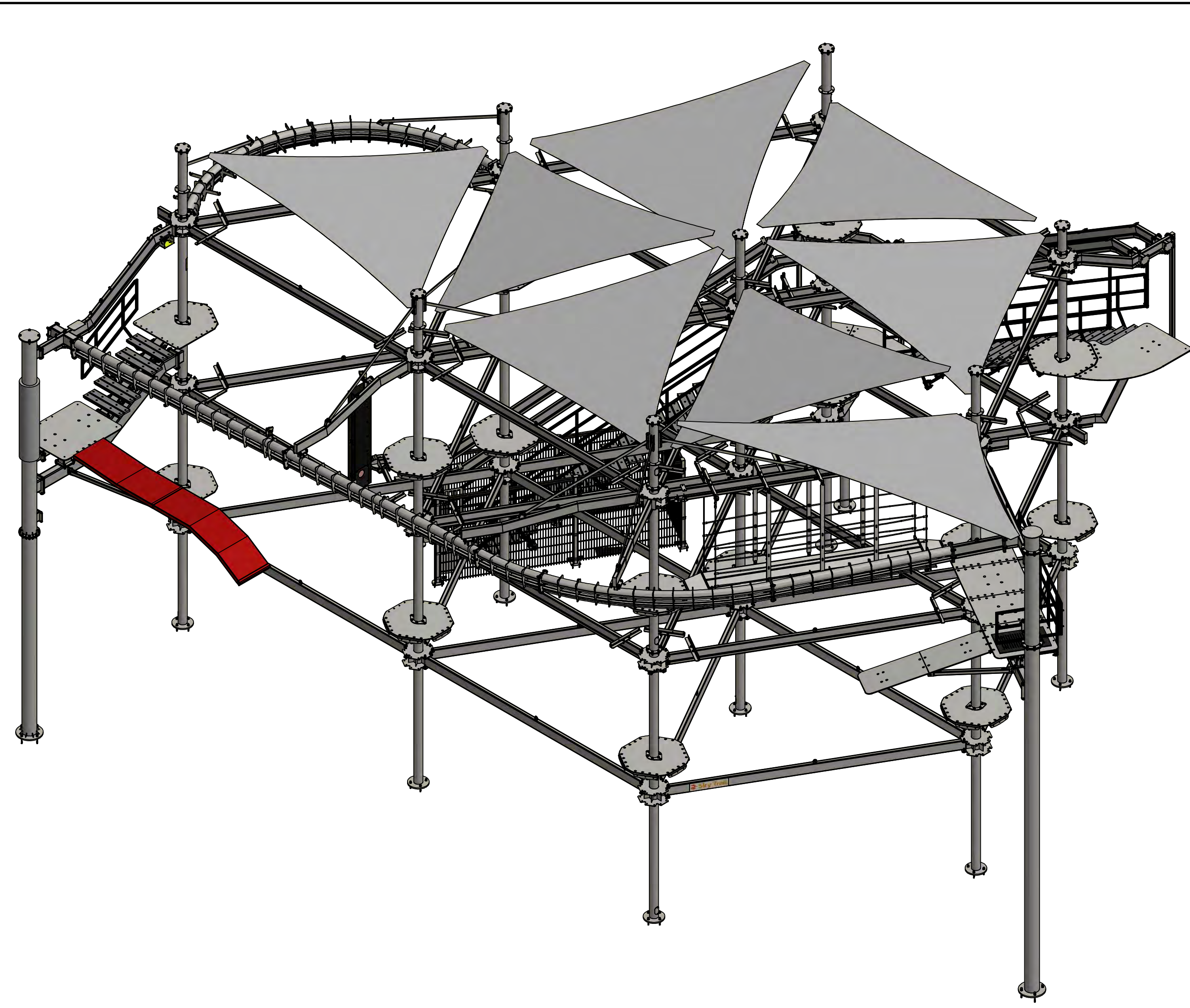
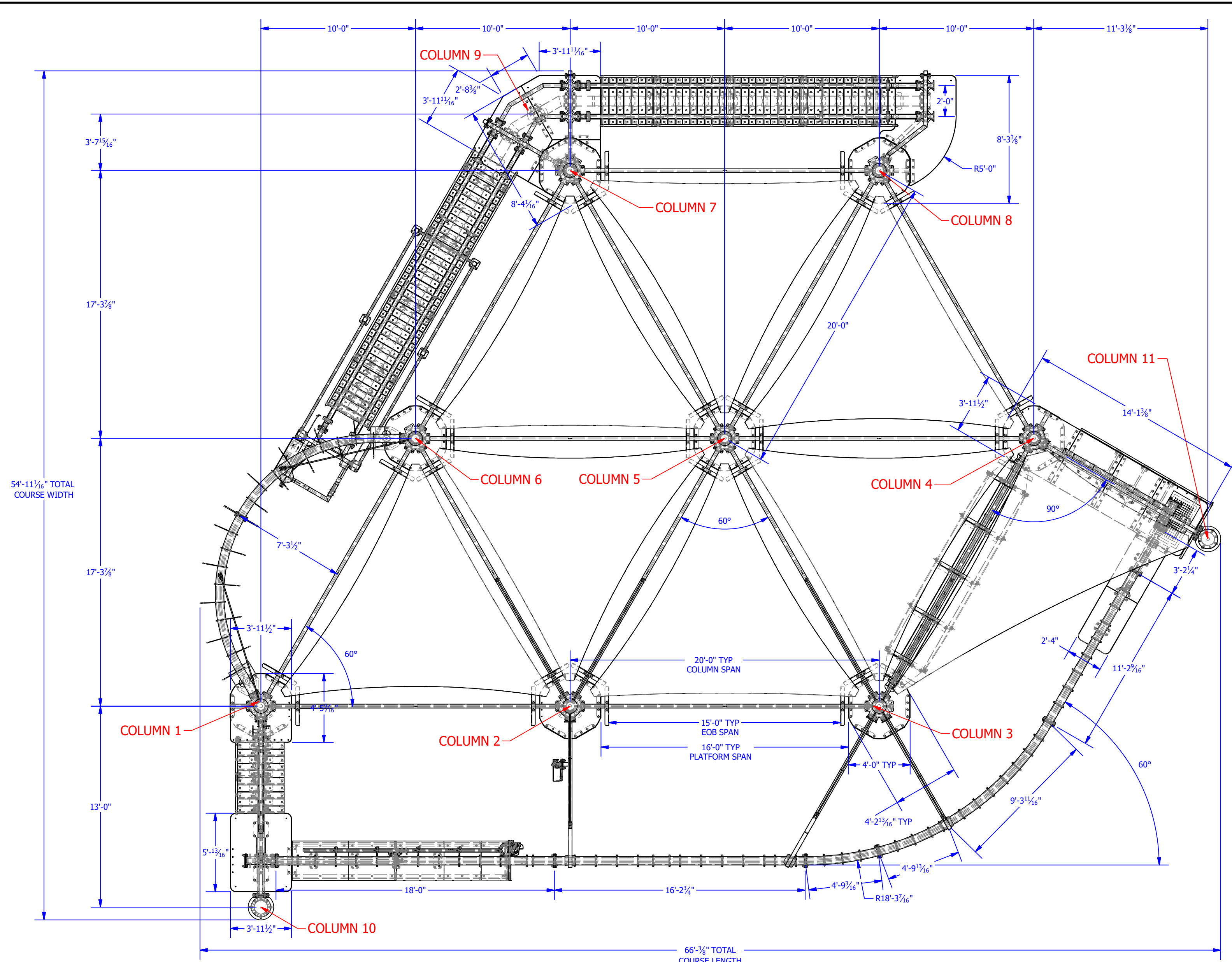
SHEET: 2.2
 SITE ADDRESS: BOONLOCKS FOOD&FUN-PARKER 18706 COTTONWOOD DR, PARKER CO 80138, USA
 PROJECT NAME: BOONLOCKS FOOD & FUN - PARKER
 JOB NO: 10615
 DESCRIPTION: 8 POLE 2 LEVEL CUSTOM SKY TRAIL@ DISCOVERY WITH (1) 60' SKY RAIL@ AND SUN SHADES
 AUTHOR: ROSTAM DATE: 11/23/2021 REV:



COURSE LOCATION



SHEET: 2.2



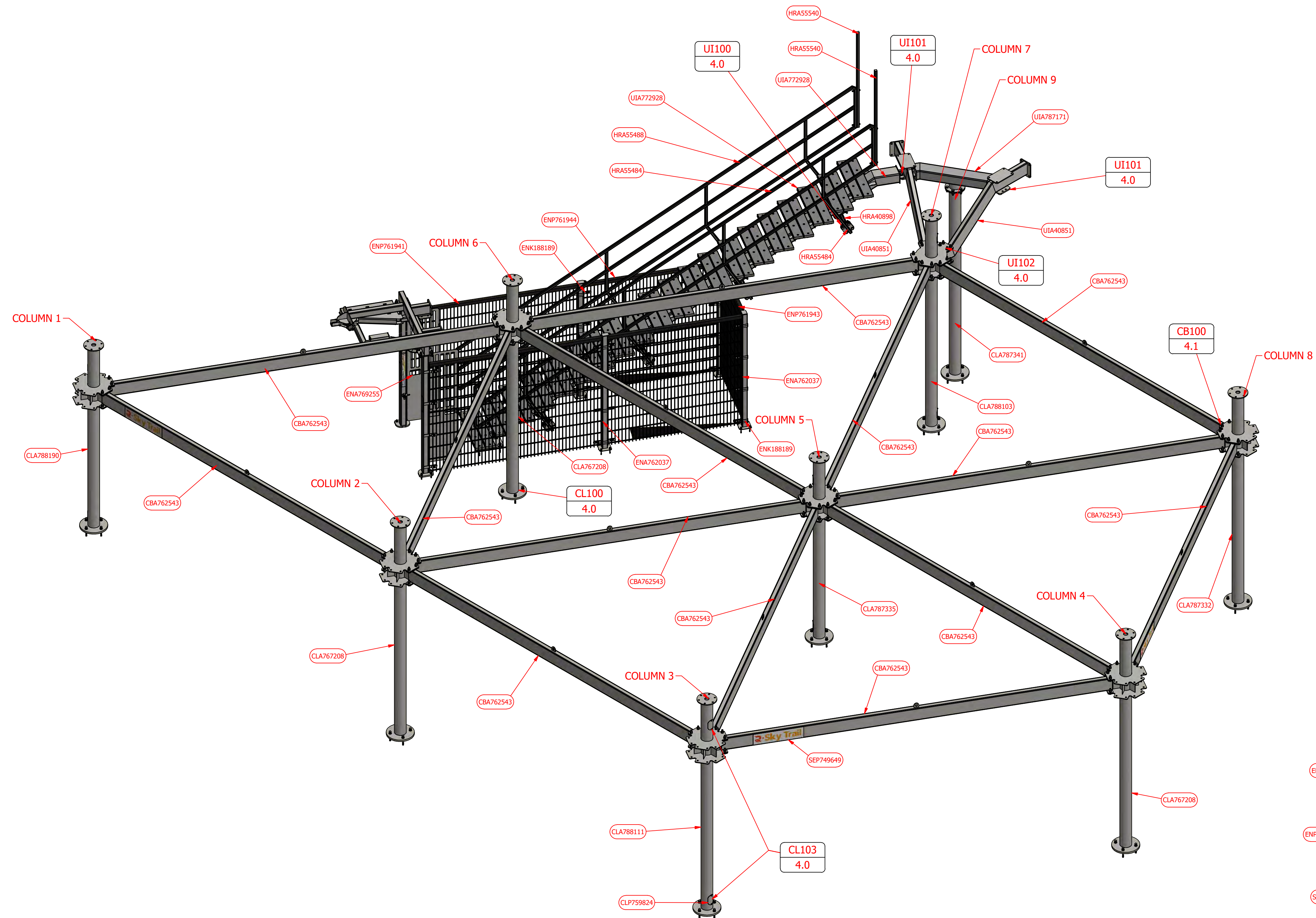
SHEET: 3.0
 BOONDOCKS FOOD&FUN-PARKER
 18706 COTTONWOOD DR. PARKER
 CO 80138, USA
 PROJECT NAME: BOONDOCKS FOOD
 & FUN - PARKER
 JOB NO: 16615
 DESCRIPTION: 8 POLE 2 LEVEL CUSTOM SKY TRAIL@ DISCOVERY
 WITH (1) 60P SKY RAIL@ AND SUN SHADES
 AUTHOR: ROSTAM DATE: 11/23/2021 REV:



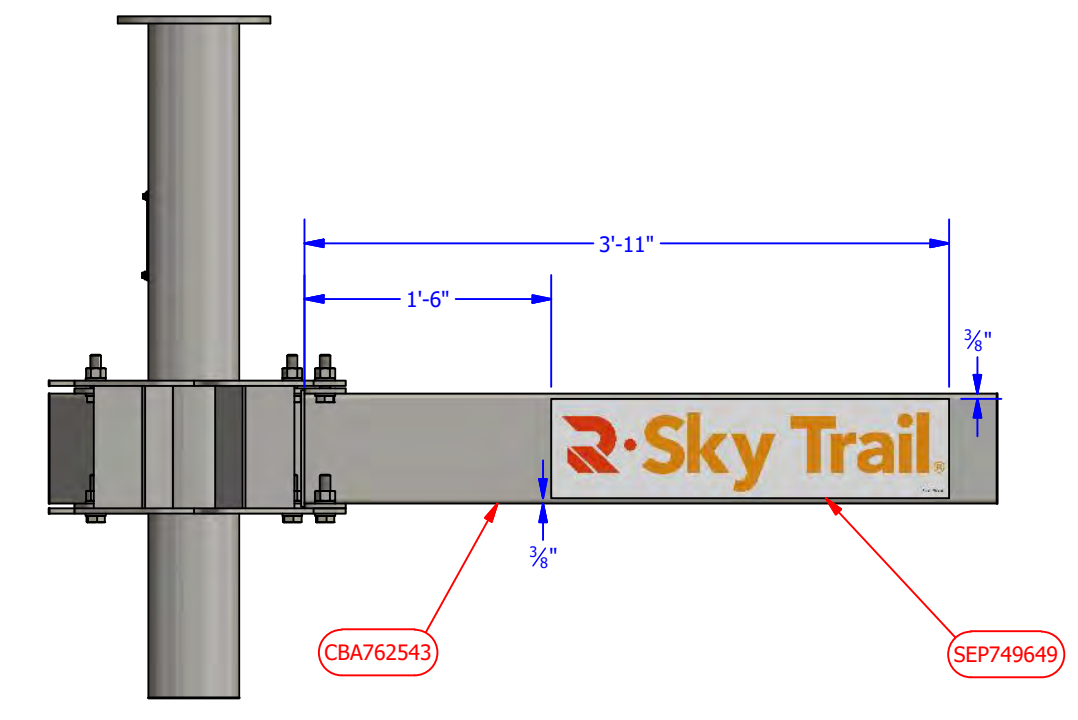
COURSE FRAME LAYOUT

COLORADO LICENSED
 TROY LEE GARLAND
 49025
 PROFESSIONAL ENGINEER

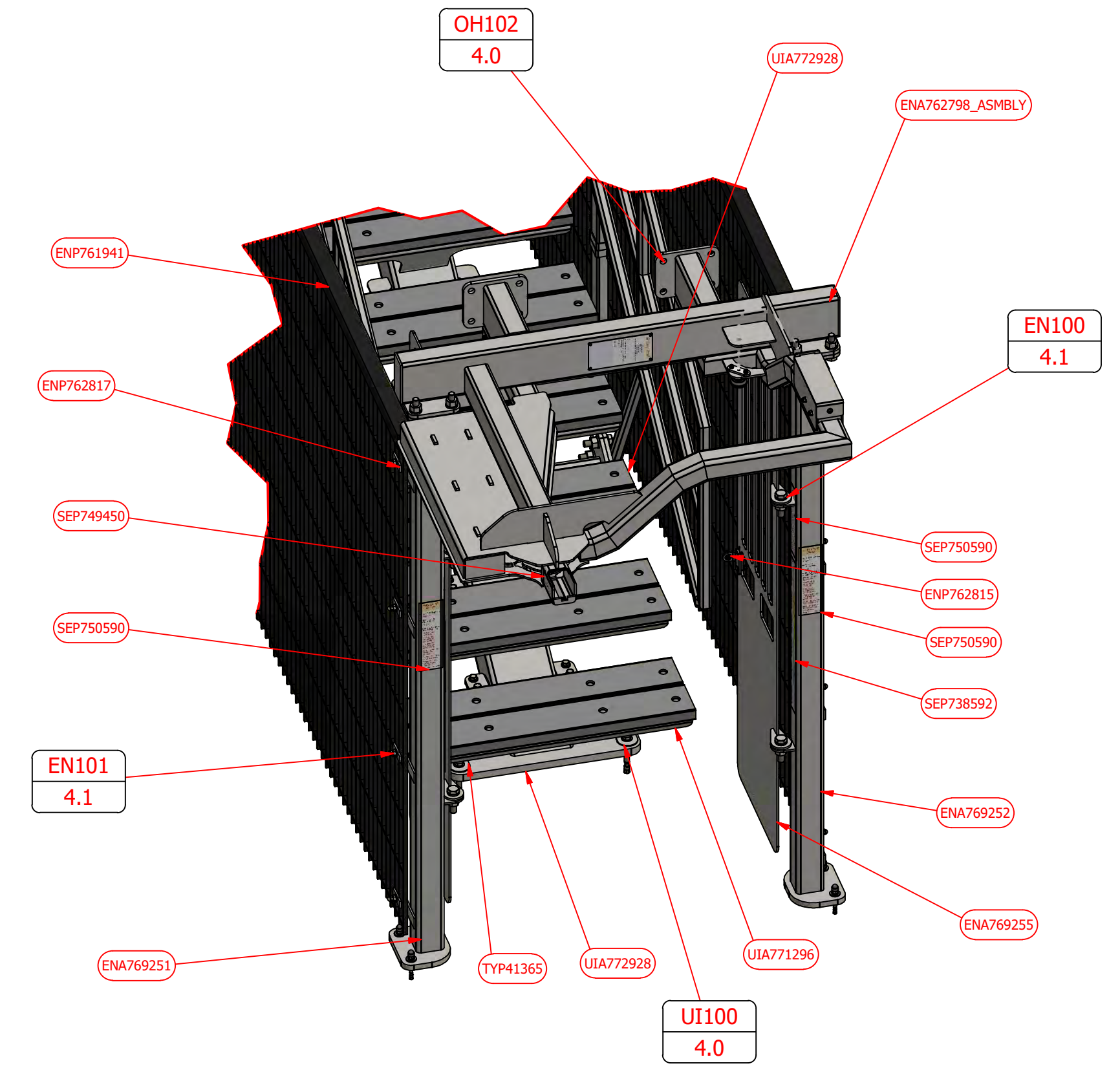
SHEET: 3.0



PARTS LIST			MASS
PART NUMBER	ITEM QTY	DESCRIPTION	
CB762543	14	DST - COMPRESSION BEAM WELDMENT_R2	260.9836 lbmass
CLA767208	3	NAV/DST - 6-WAY BOTTOM COLUMN WELDMENT	373.9656 lbmass
CLA787332	1	10615 - NAV/DST - 6-WAY BOTTOM COLUMN2 SHORTENED WELDMENT	371.6834 lbmass
CLA787325	1	10615 - NAV/DST - 6-WAY BOTTOM COLUMNS SHORTENED MOVED WIRE HOLE 120 DEGREE WELDMENT	327.7599 lbmass
CLA787341	1	10615 - INCLINE PORTAL COLUMN BTM SHORTENED WELDMENT	262.5226 lbmass
CLA788103	1	10615 - NAV - 5-WAY CORNER INCLINE BOTTOM COLUMN7 SHORTENED MOVED WIRE HOLE WELDMENT_R1	375.8297 lbmass
CLA788111	1	10615 - NAV/DST - 6-WAY BOTTOM COLUMN3 SHORTENED MOVED WIRE HOLE WELDMENT_R1	369.5210 lbmass
CLA788190	1	10615 - NAV/DST - 6-WAY BOTTOM COLUMN SHORTENED MOVED WIRE HOLEWELDMENT R3 MIR	339.0912 lbmass
CLP759824	8	PLT11GAX6.5X4.1875 A36 5397 - HAND HOLD CAP	.8344 lbmass
ENA762037	4	RCI - 6' FENCE COLUMN WELDMENT	34.2814 lbmass
ENA762798_ASMBLY	1	DST - 2018 SAFE ENTRANCE - ASSEMBLY_MECHANICAL	327.9649 lbmass
ENA769251	1	NAV/DST - LEFT ENTRANCE COLUMN WELDMENT (WITH FENCE TABS)	91.0985 lbmass
ENA769252	1	NAV/DST - RIGHT ENTRANCE COLUMN WELDMENT (WITH FENCE TABS)	91.0985 lbmass
ENA769255	2	SIMPLE HINGE - ENT DOOR UNIVERSAL WELDMENT	67.7855 lbmass
ENK188189	32	3" UNIVERSAL COLLAR BRACKET ATTACHMENT - BLACK KIT C-CUNI3KBK	1.0203 lbmass
ENP761941	2	OMEGA SECUR FENCE PANEL 6' with 2" tube x 99" BLACK	18.2258 lbmass
ENP761943	1	OMEGA SECUR FENCE PANEL 6' with 2" tube x 47.47" BLACK	8.7576 lbmass
ENP761944	2	OMEGA SECUR FENCE PANEL 6' with 2" tube x 77" BLACK	14.2203 lbmass
ENP762815	2	PLT114X3 1/2X3 A36 LATCH PLATE	.4158 lbmass
ENP762817	8	PLT114X3 1/2X3 A36 OMEGA II RETAINING PLATE FOR ENTRANCE CO	.1994 lbmass
HRA40898	4	GUARD FRAME CROSS ARM WELDMENT	32.6647 lbmass
HRA55484	1	NAV/DST - RIGHT GUARD FRAME WELDMENT	289.5265 lbmass
HRA55488	1	NAV/DST - LEFT GUARD FRAME WELDMENT	289.5265 lbmass
HRA55540	2	CATCH POLE WELDMENT	16.2999 lbmass
SEP738592	2	1/16"X22 1/2X3 1/2" SRS ADJUSTMENT STICKER	.0378 lbmass
SEP749450	2	WARNING STICKER FOR TRACK ENTRANCE	.0003 lbmass
SEP749649	5	SKY TRAIL BRANDING STICKER	.6760 lbmass
SEP750590	4	PRE-FLIGHT STICKER WITH SKY RAIL (ENTRANCE COLUMN SHAPE)_R1	.0011 lbmass
TYP41365	4	PLT11GAX3X2.5 A36 SLOTTED HOLE ANCHOR WASHER	2.002 lbmass
UIA40851	2	NAV/DST LOWER UNDER INCLINE ARM WELDMENT	107.9204 lbmass
UIA771296	2	DST - FIRST STEP SUB ASSEMBLY	49.8183 lbmass
UIA772928	1	DST - GR UI STAIRS ASSEMBLY_R1	1643.3340 lbmass
UIA787171	1	10615 - UI SUPPORT HORIZONTAL WELDMENT	122.3753 lbmass



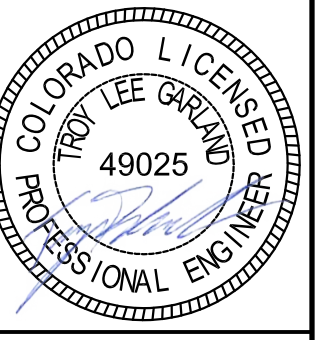
SKY TRAIL BRAND COURSE STICKER DETAIL



SHEET: 13
 PROJECT NAME: BOONDOCKS FOOD
 CO 80139, USA
 SITE ADDRESS: BOONDOCKS FOOD IN PARKER
 18706 COTTONWOOD DR, PARKER
 CO 80139, USA
 JOB NO: 10615
 PROJECT NAME: BOONDOCKS FOOD & ELEM - PARKER
 DESCRIPTION: 8 POLE 2 LEVEL CUSTOM SKY TRAIL @ DISCOVERY WITH (1) 60P SKY RAIL @ AND SUN SHADES
 AUTHOR: ROSTAM
 DATE: 11/23/2021
 REV:



GROUND LEVEL FRAME DETAILS



LEVEL 1 PARTS LIST			
PART NUMBER	ITEM QTY	DESCRIPTION	MASS
CLA755186	1	4583 - SHORT SAIL POST WELDMENT	58.6078
CLA759021	1	6921 - TALL SAIL POST WITH SHORT CONN RING WELDMENT	123.9424
CLA786772	1	10615 - SAIL POST SR SUN SHADE WELDMENT	107.8653
CLA786910	1	10615 - TALL SAIL POST WITH SHORT CONN RING AND MOVED WIRE HOLE WELDMENT	122.8612
CLA786916	1	10615 - TALL SAIL POST WITH SHORT CONN RING AND MOVED WIRE HOLE120D WELDMENT	122.8612
CLP41689	4	PLT1/4"X11 1/8"X11 1/8" A36 P6 COLUMN SPLICE PLATE CAP	6.6798
SSP758951	7	HDPE COMMERCIAL 95 SHADE 232X204.125	63.6406
SSP788197	1	DST SR TRIANGLE SHADE 224.625X144.6875	53.6201

SHEET: 3.5

PROJECT NAME: BOONDOCKS FOOD

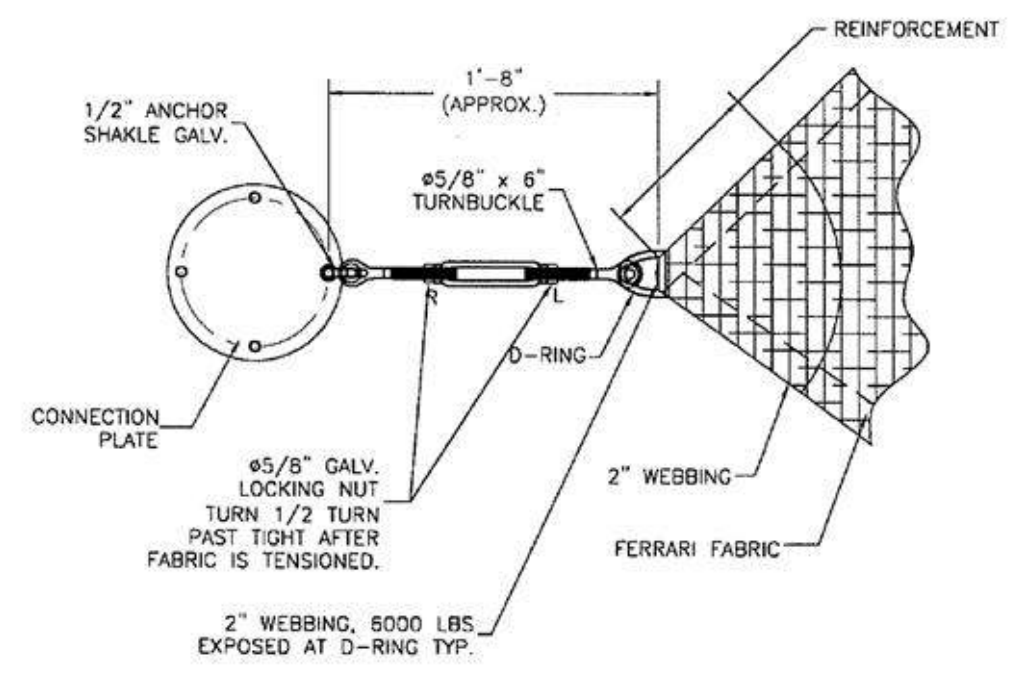
SITE ADDRESS: BOONDOCKS FOOD/IN-PARKER 18706 COTTONWOOD DR. PARKER CO 80138, USA

JOB NO: 10615

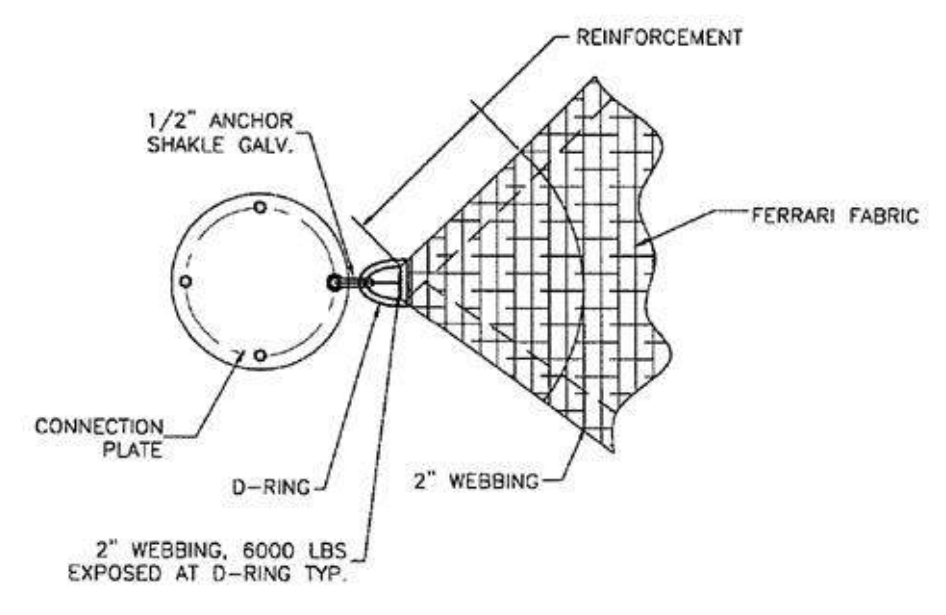
DESIGNER: TROY LEE CARLSON & EVAN PARKER

DESCRIPTION: 8 POLE 2 LEVEL CUSTOM SKY TRAIL@ DISCOVERY WITH (1) 60P SKY RAIL@ AND SUN SHADES

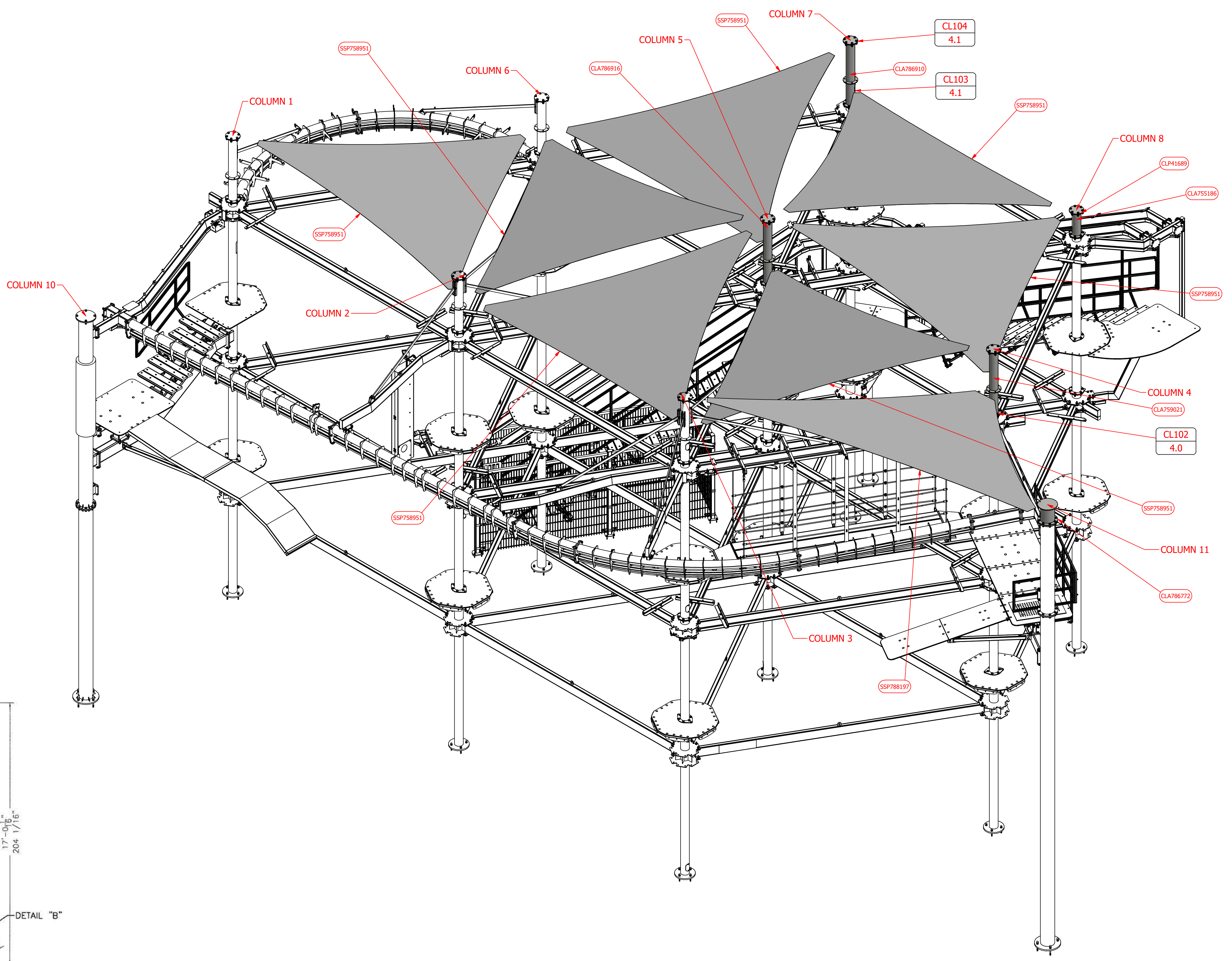
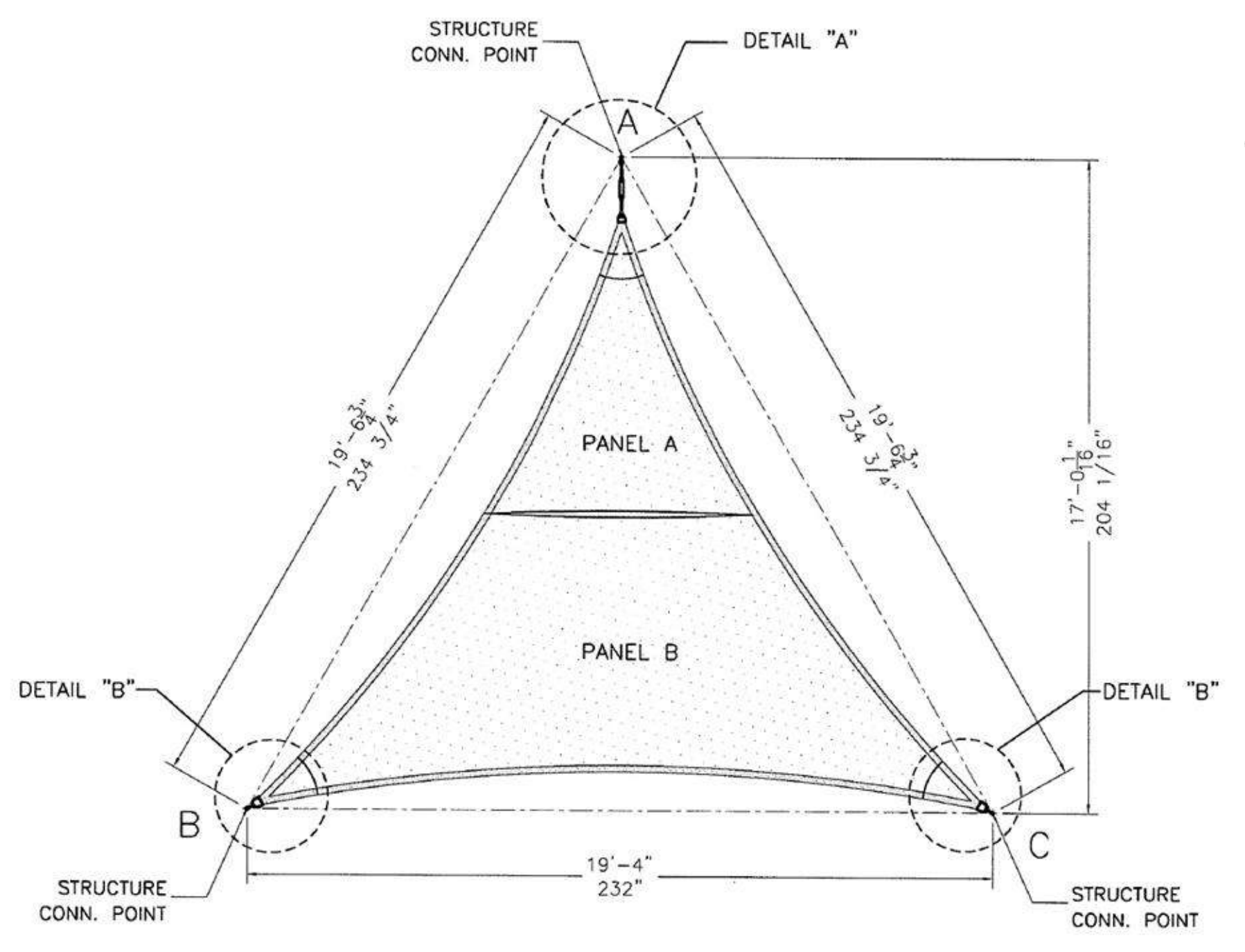
AUTHOR: ROSTAM DATE: 11/23/2021 REV:



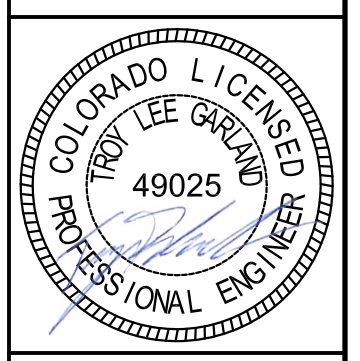
1 TURNBUCKLE CORNER CONNECTION DETAIL A
SCALE: NTS = 1"-0"
RE DWG: N/A



2 D-RING CORNER CONNECTION DETAIL B
SCALE: NTS = 1"-0"
RE DWG: N/A



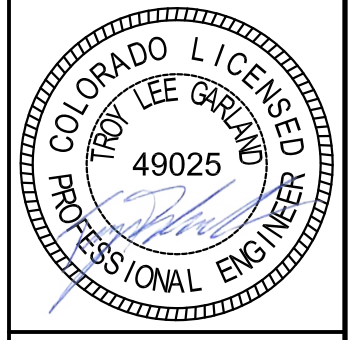
SUNSHADES FRAME DETAILS



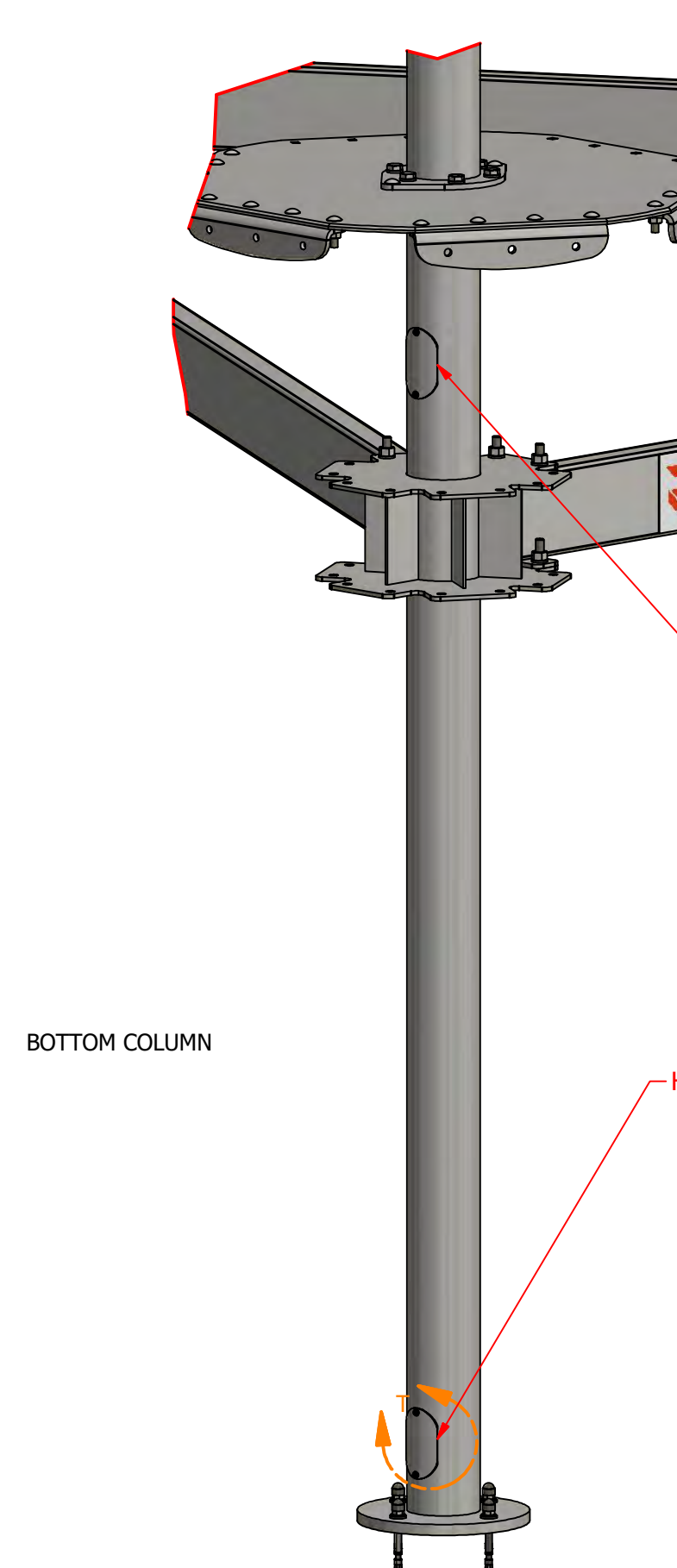
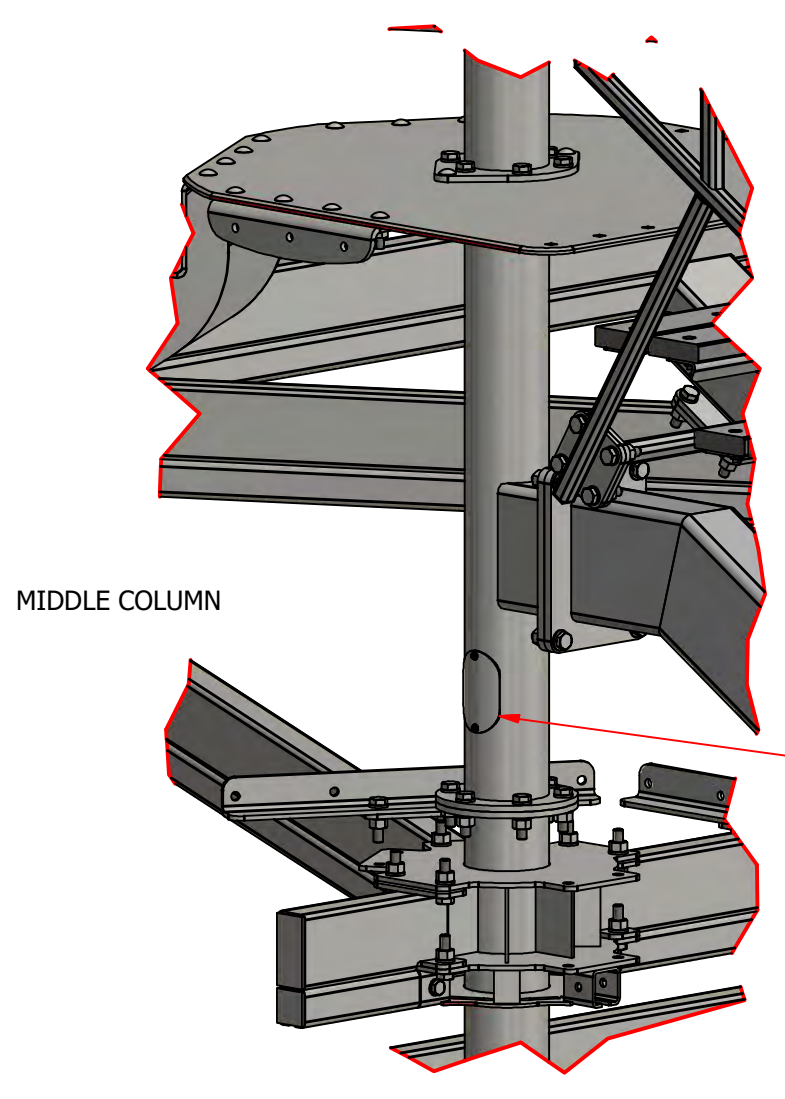
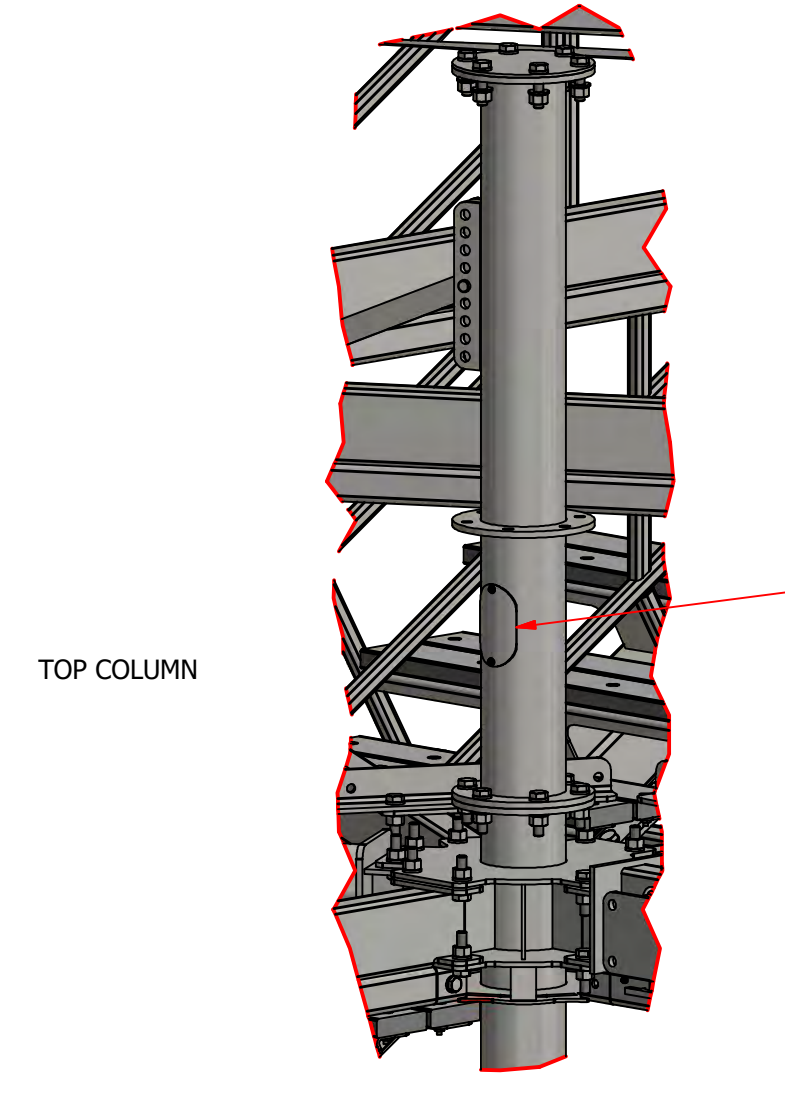
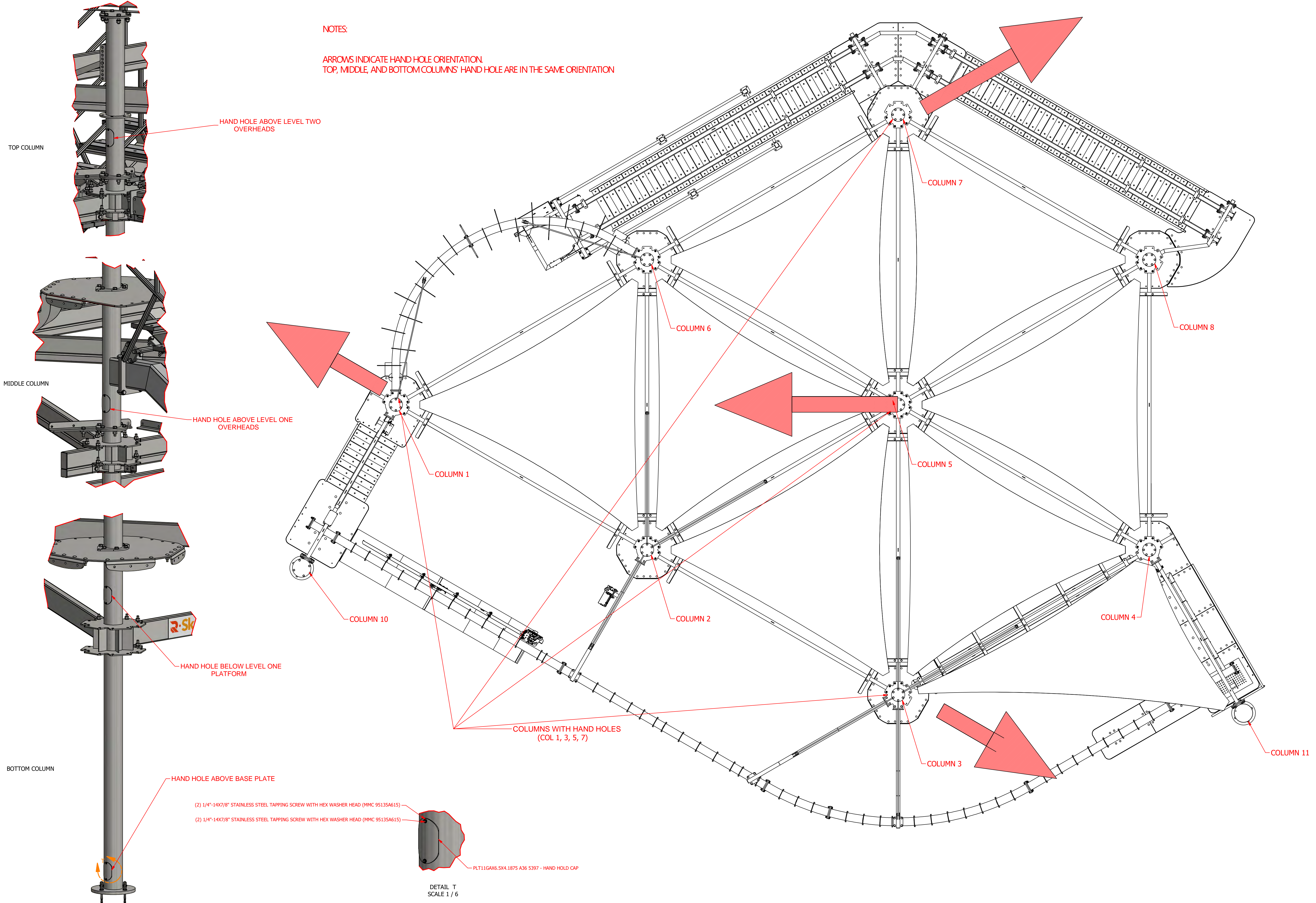
SHEET: 3.5



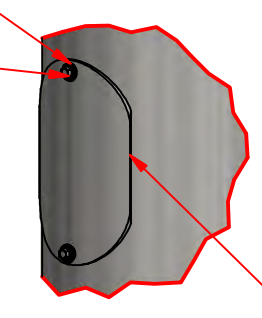
COLUMNS WITH HAND HOLES DETAILS



NOTES:
 ARROWS INDICATE HAND HOLE ORIENTATION.
 TOP, MIDDLE, AND BOTTOM COLUMNS' HAND HOLE ARE IN THE SAME ORIENTATION

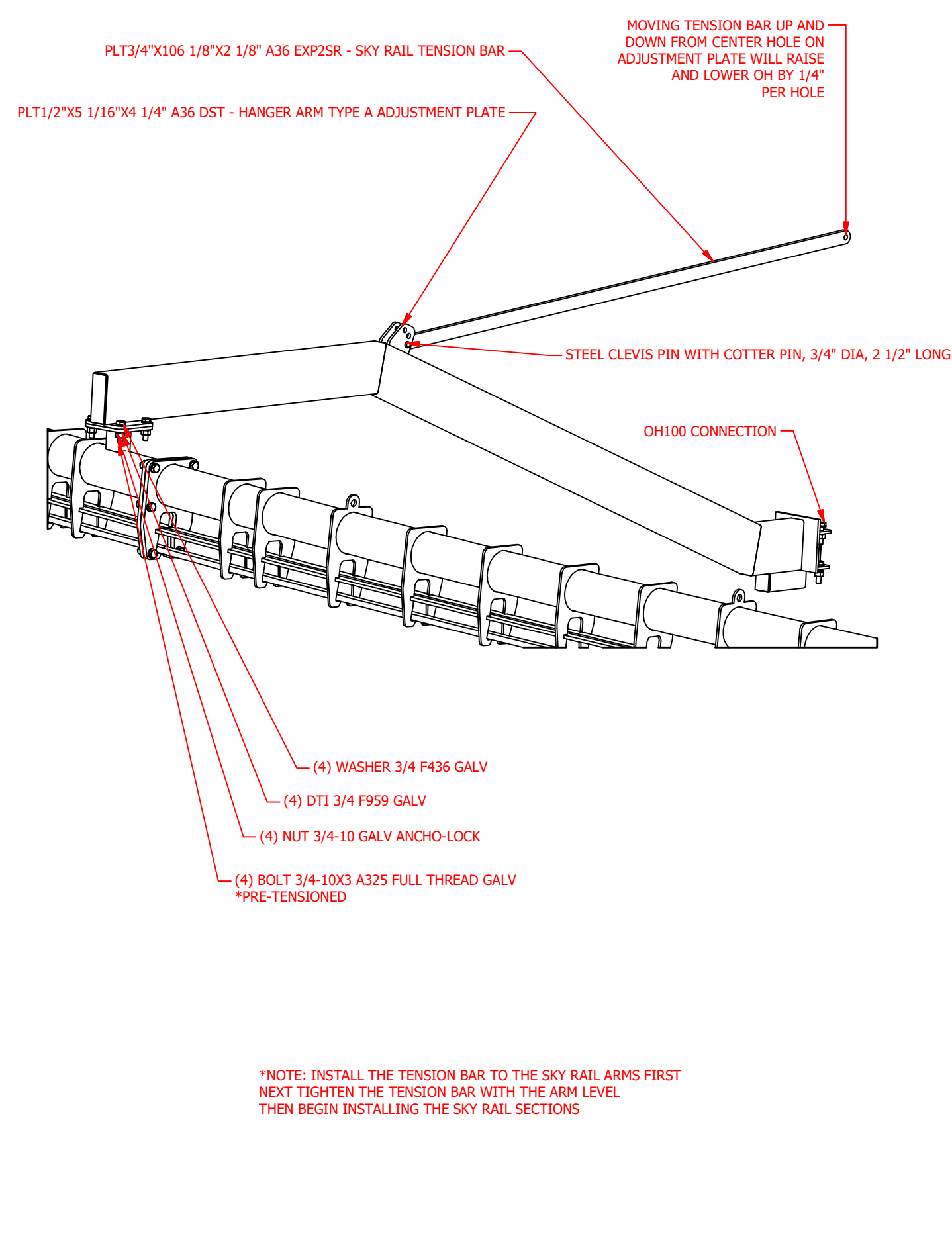


- (2) 1/4"-14x7/8" STAINLESS STEEL TAPPING SCREW WITH HEX WASHER HEAD (MMC 95135A615)
- (2) 1/4"-14x7/8" STAINLESS STEEL TAPPING SCREW WITH HEX WASHER HEAD (MMC 95135A615)

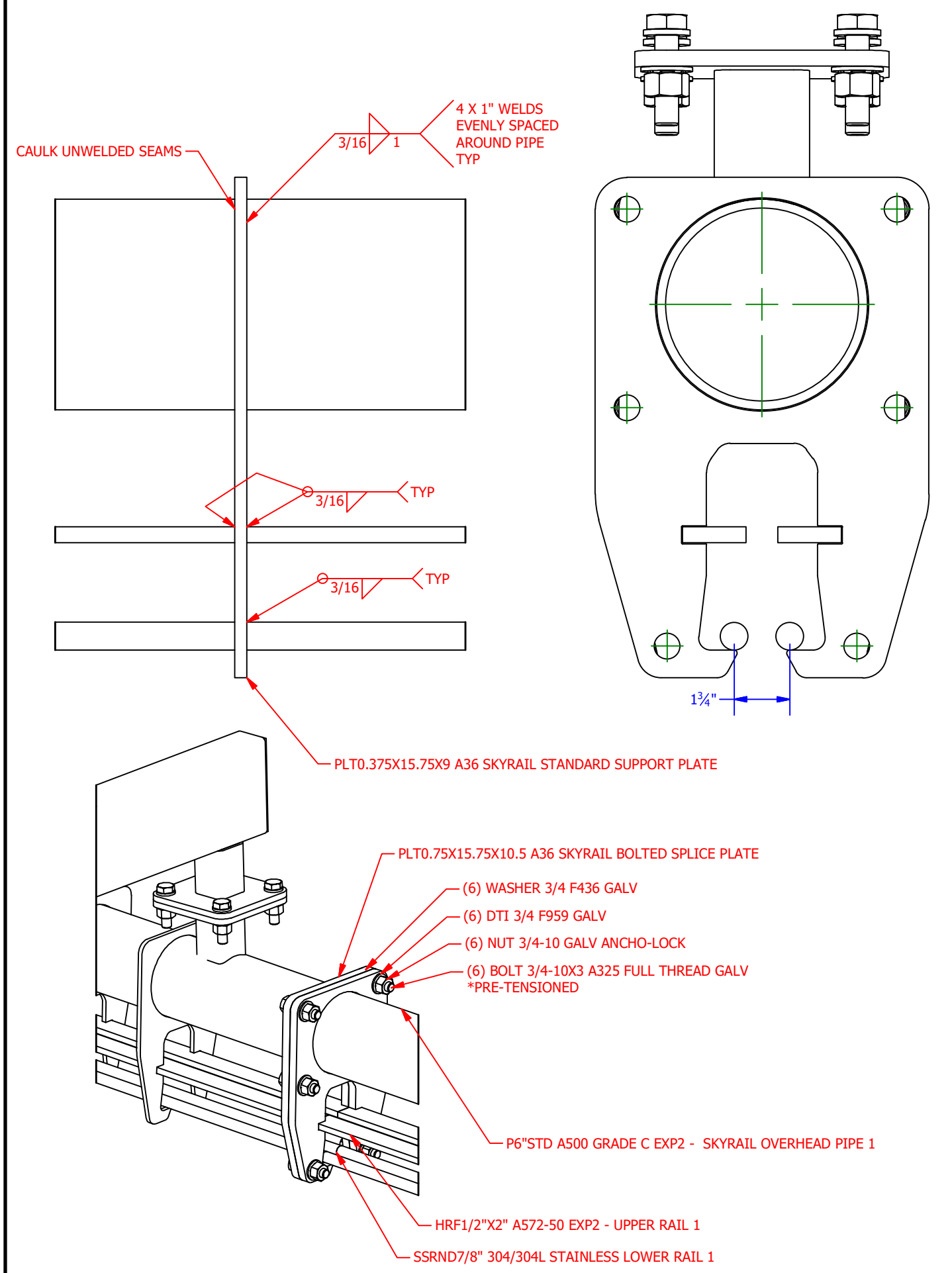


DETAIL T
 SCALE 1 / 6

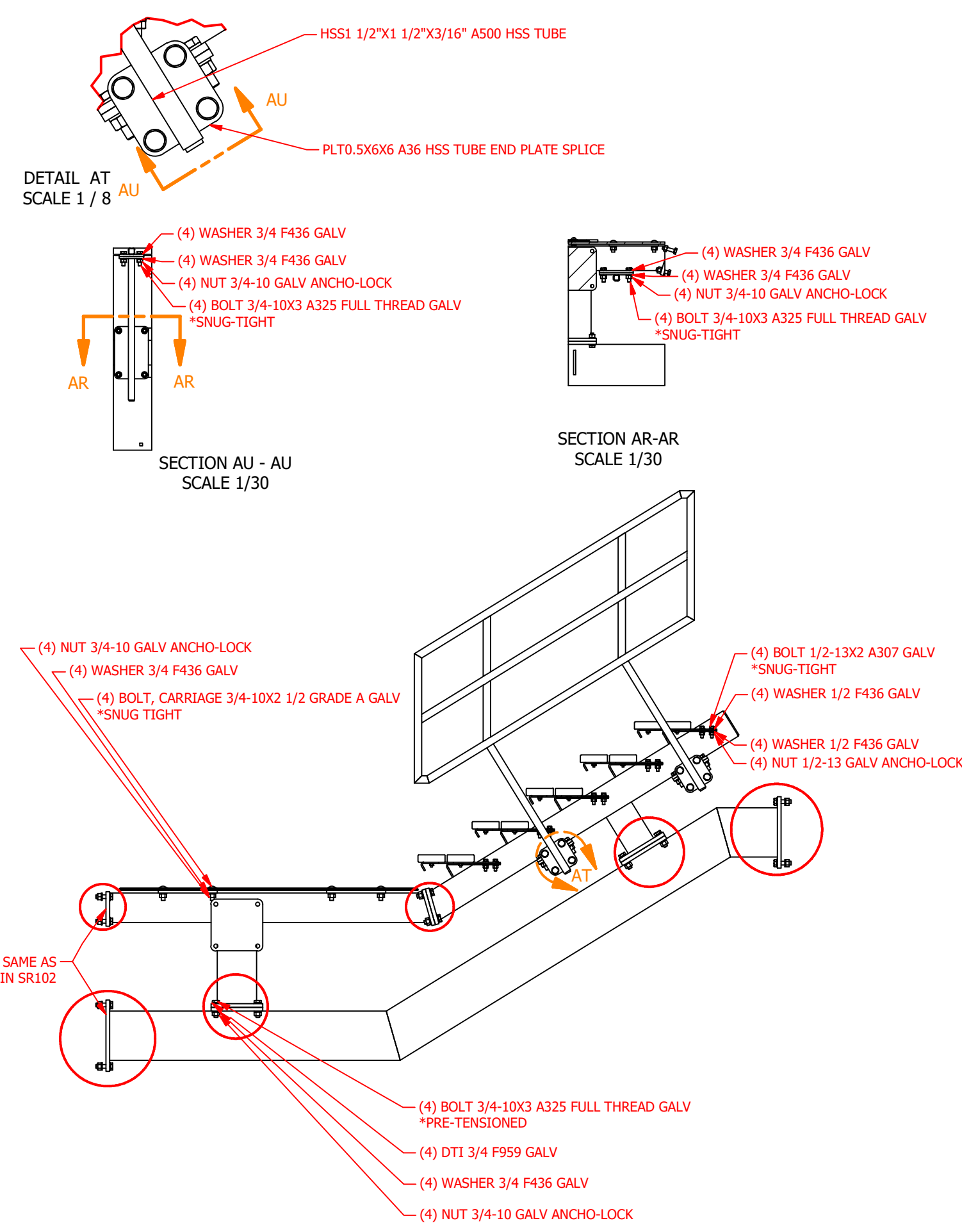
COLUMNS WITH HAND HOLES
 (COL 1, 3, 5, 7)



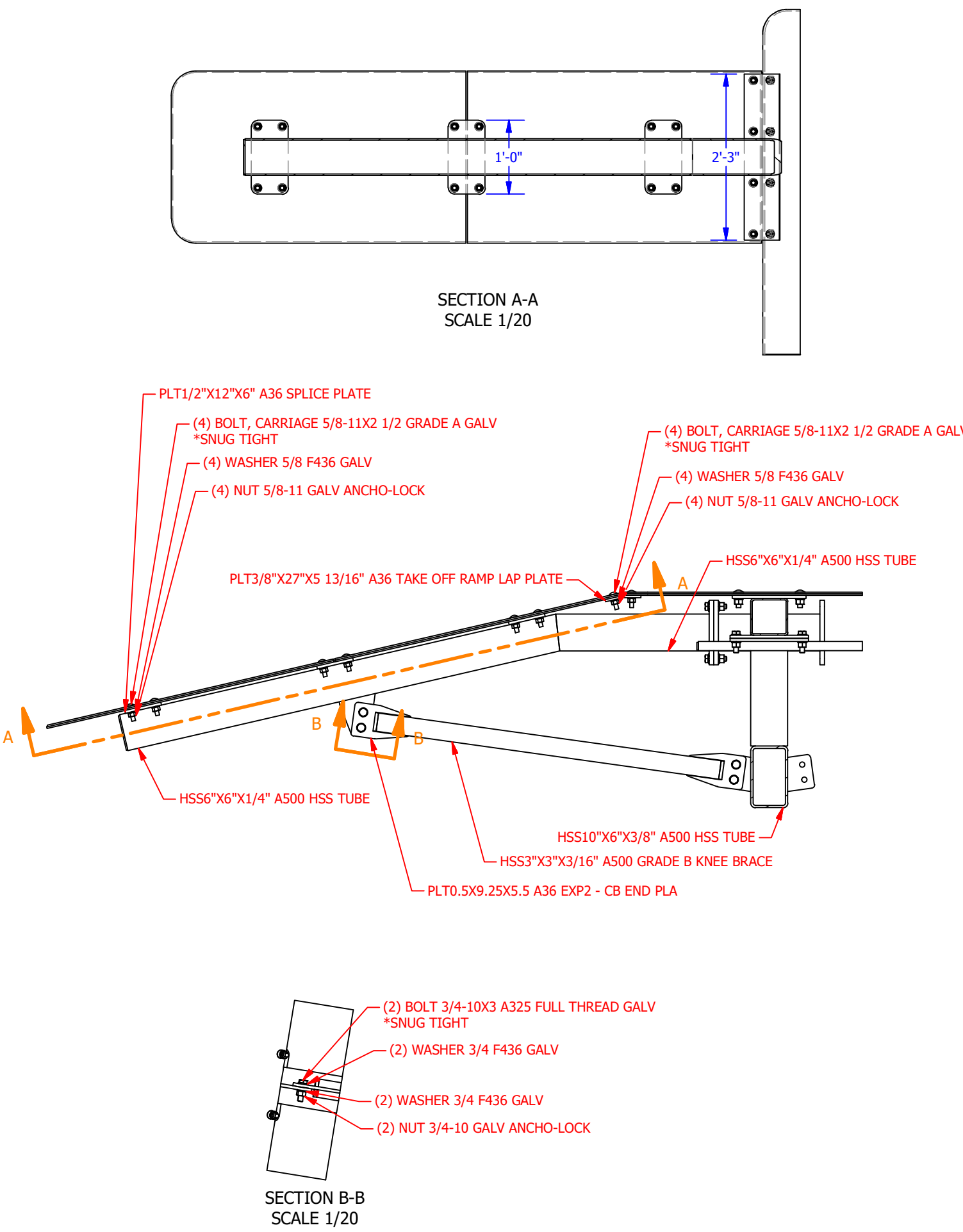
SR100 - SKY RAIL ARM



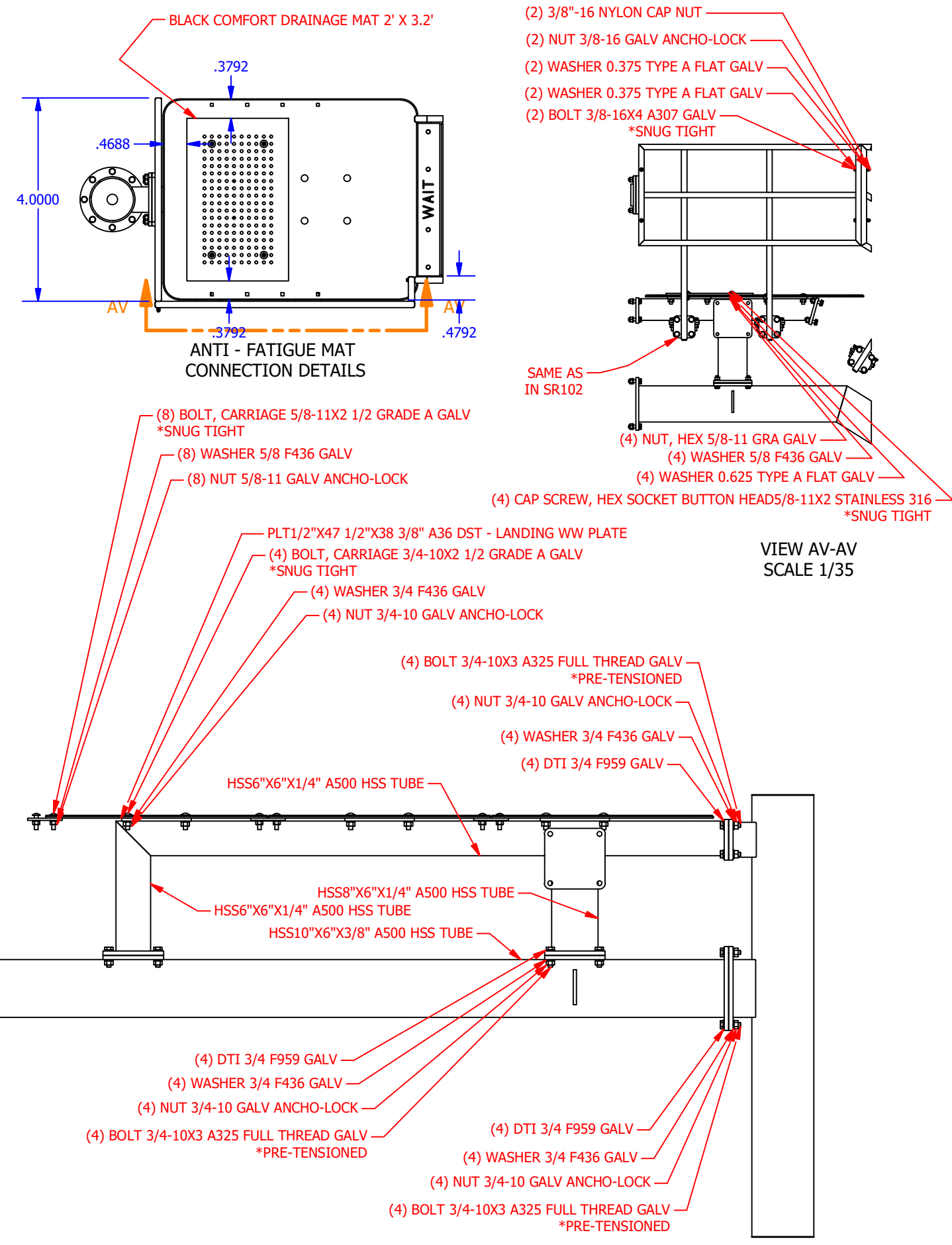
SR101 - SKY RAIL SECTION



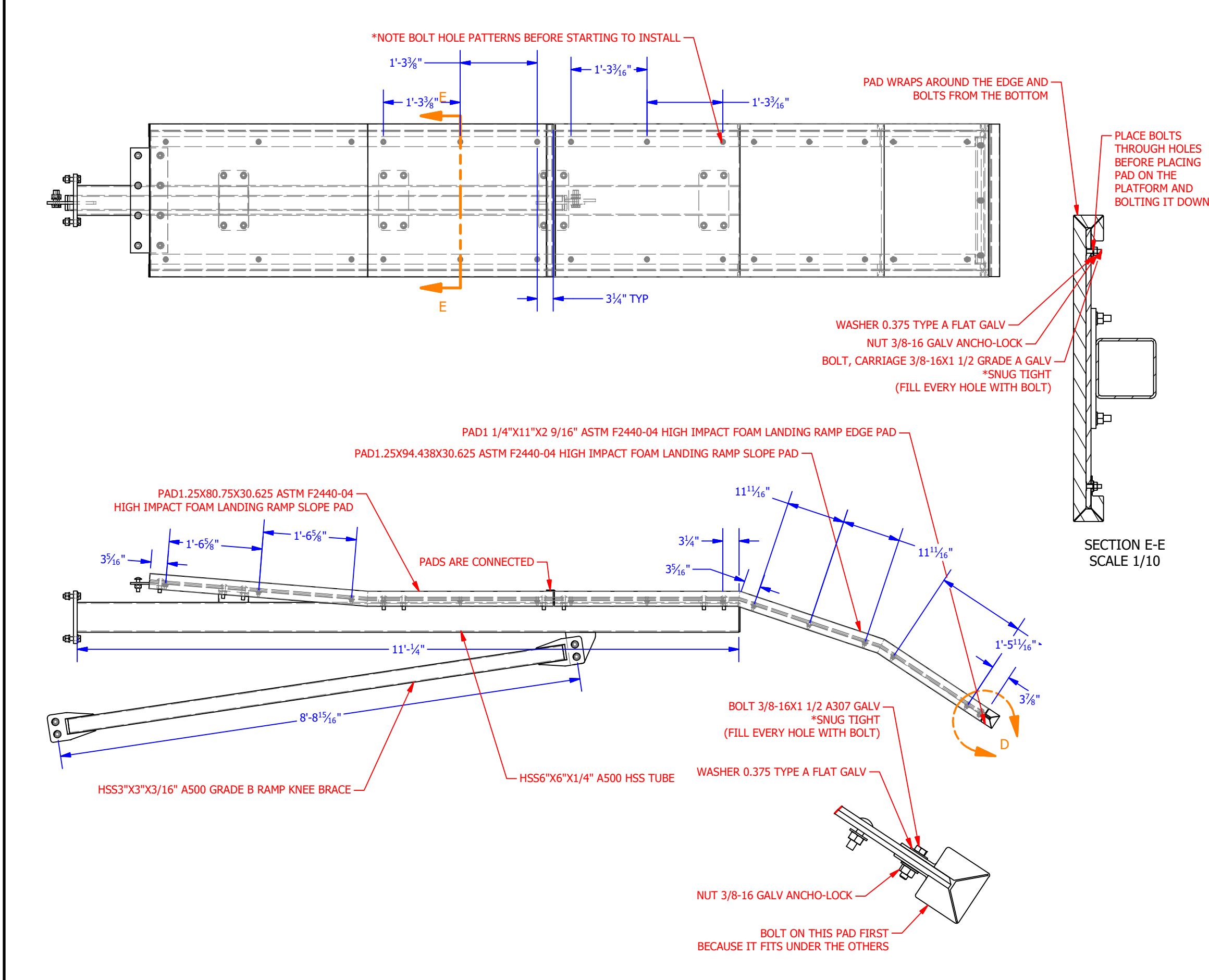
SR102 - LANDING CONNECTIONS



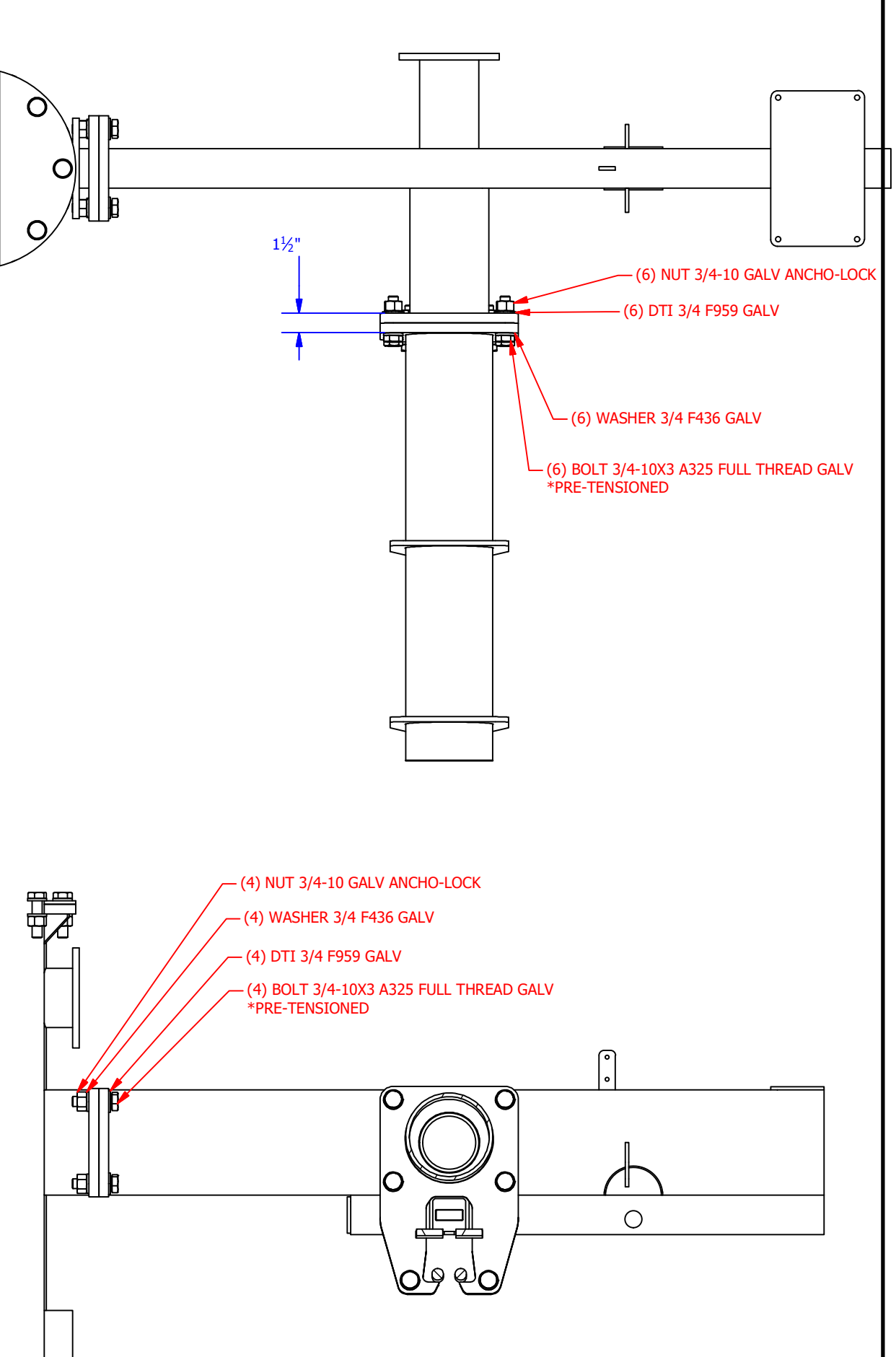
SR103 - RAMP SUPPORT



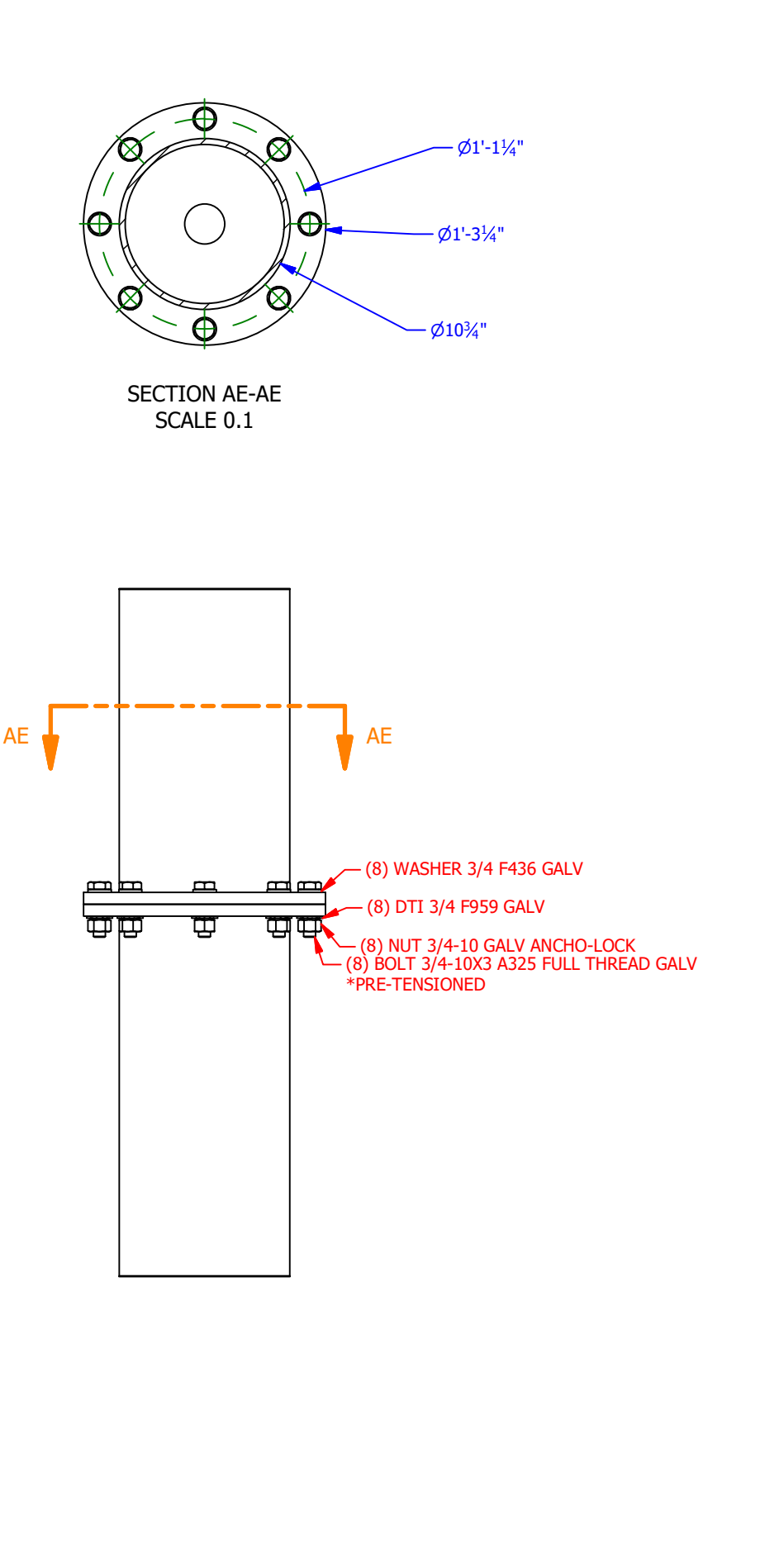
SR104 - TAKEOFF CONNECTIONS



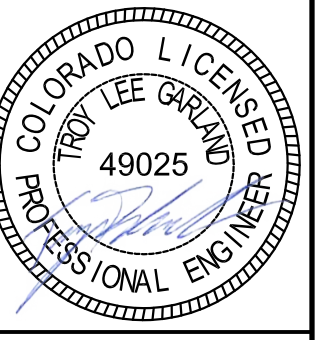
SR105 - RAMP PADDING

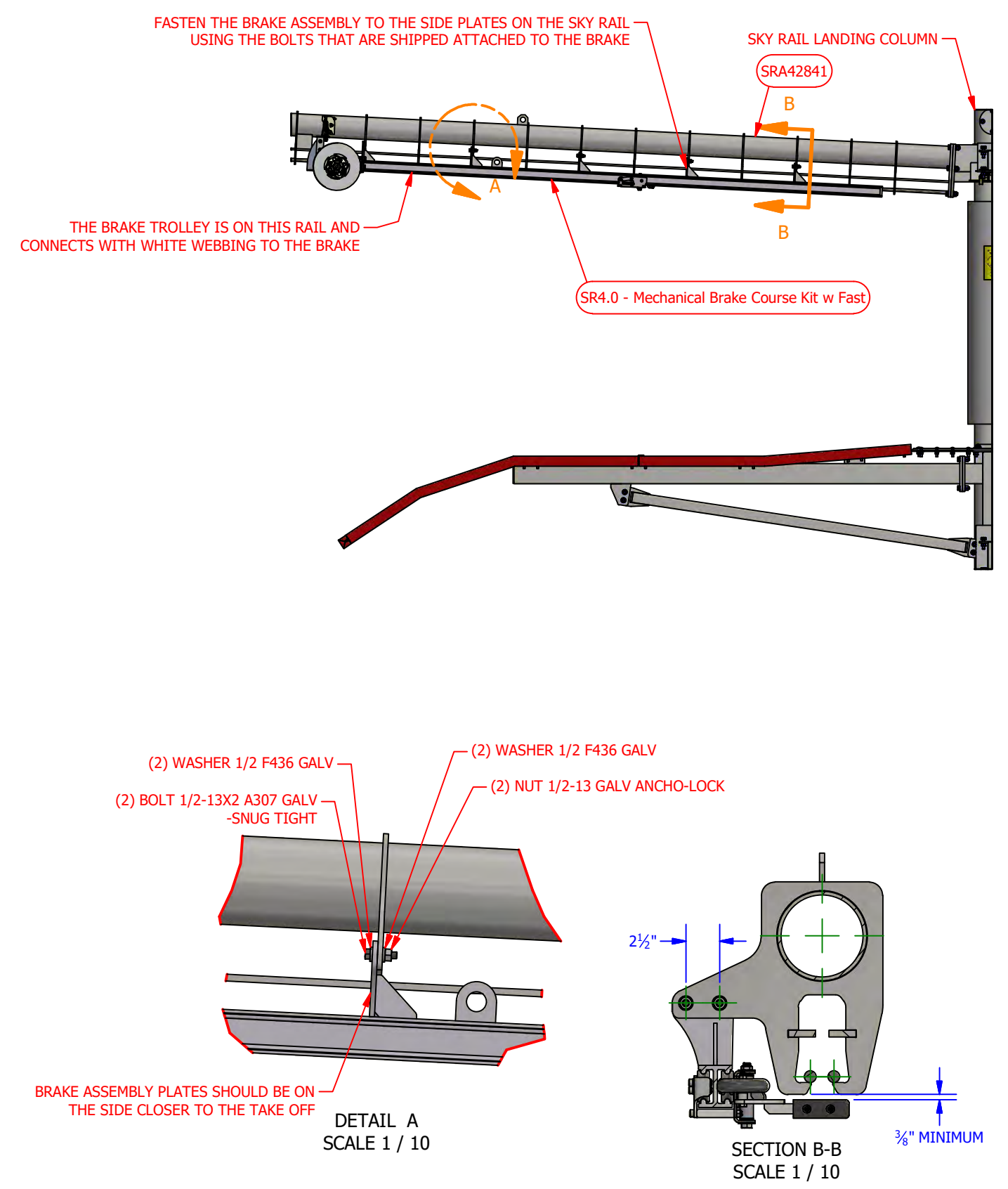


SR106 - SKY RAIL ENDS

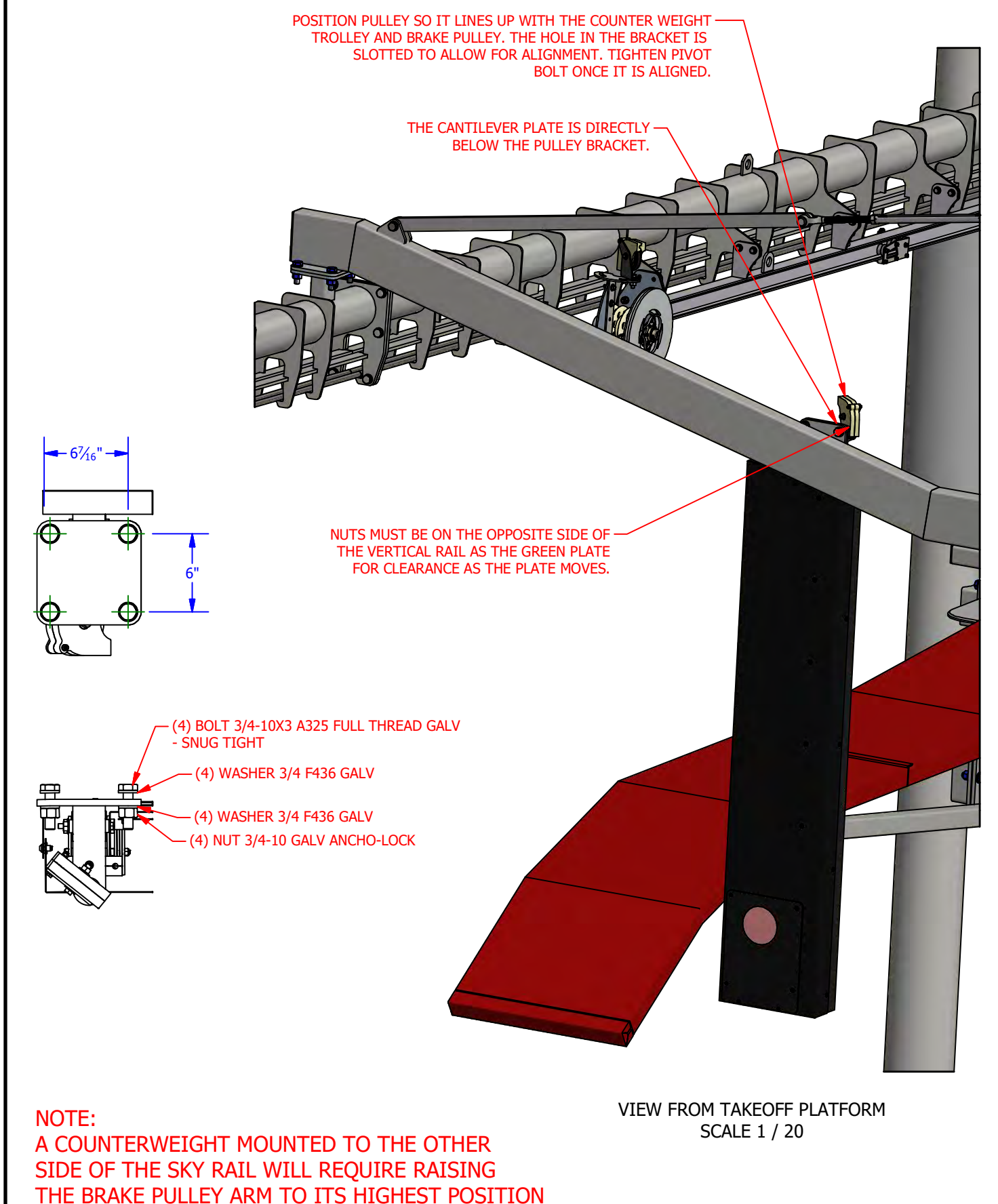


SR107 - SKY RAIL ENDS

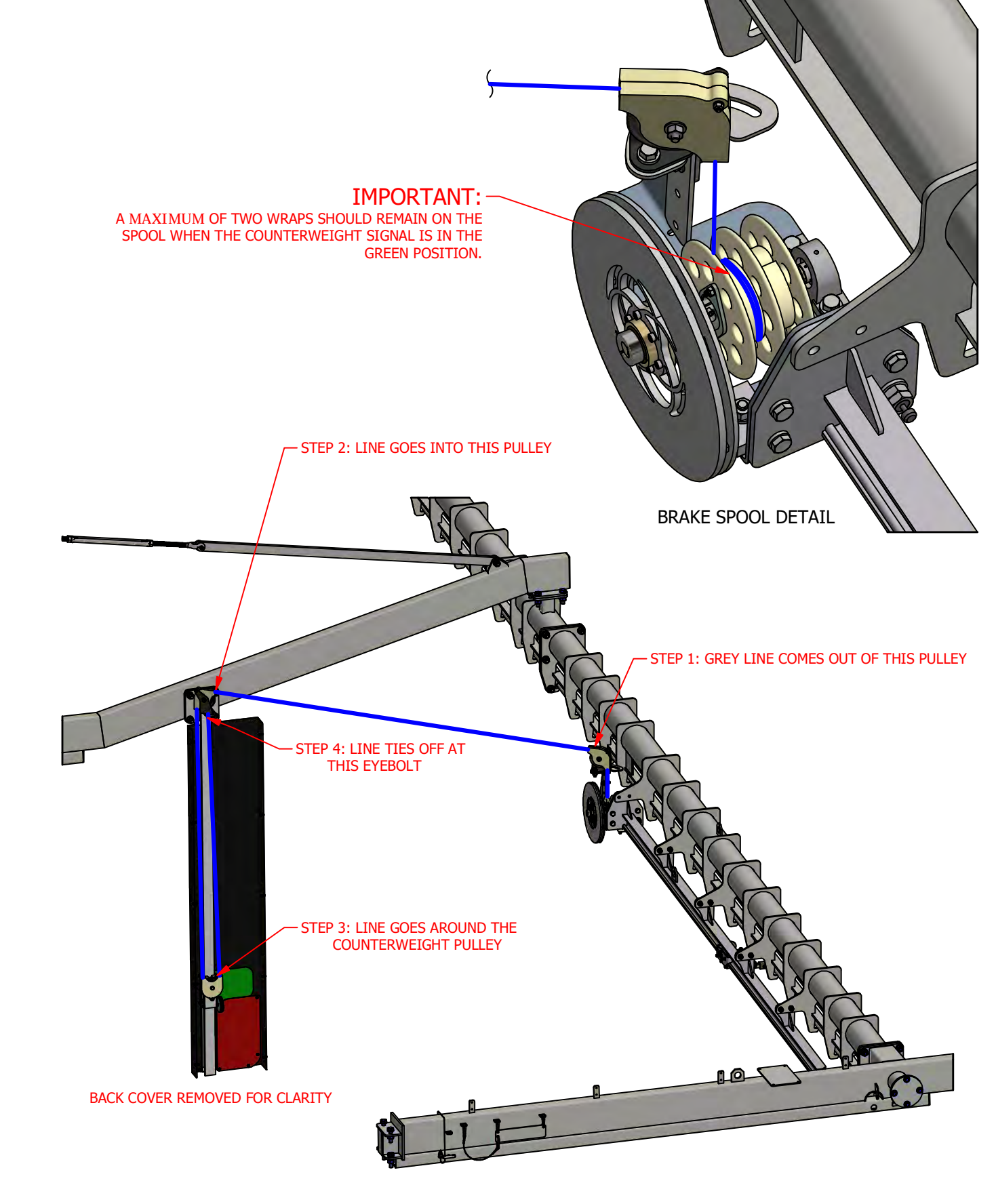




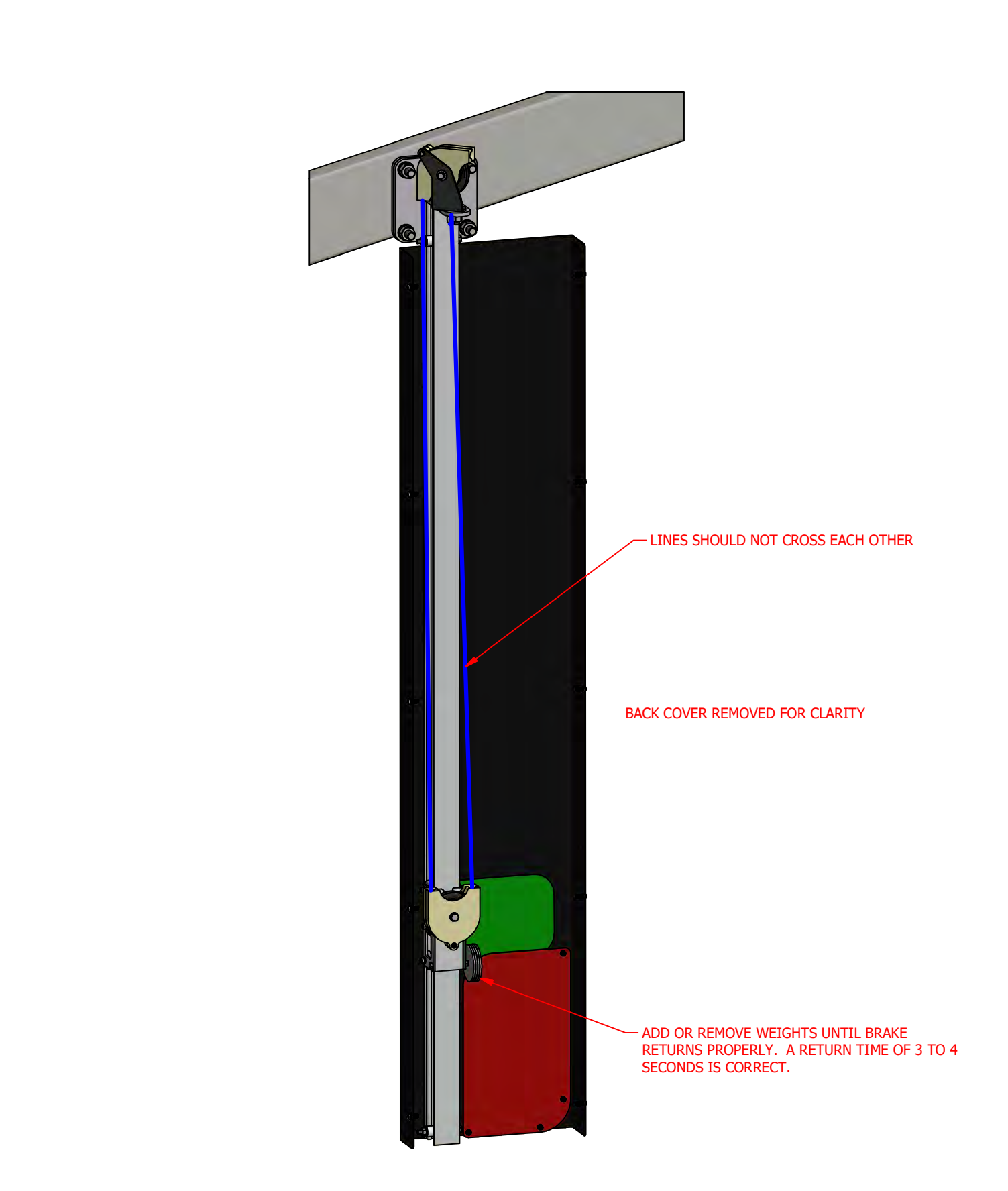
INSTALL MECHANICAL BRAKE ASSEMBLY



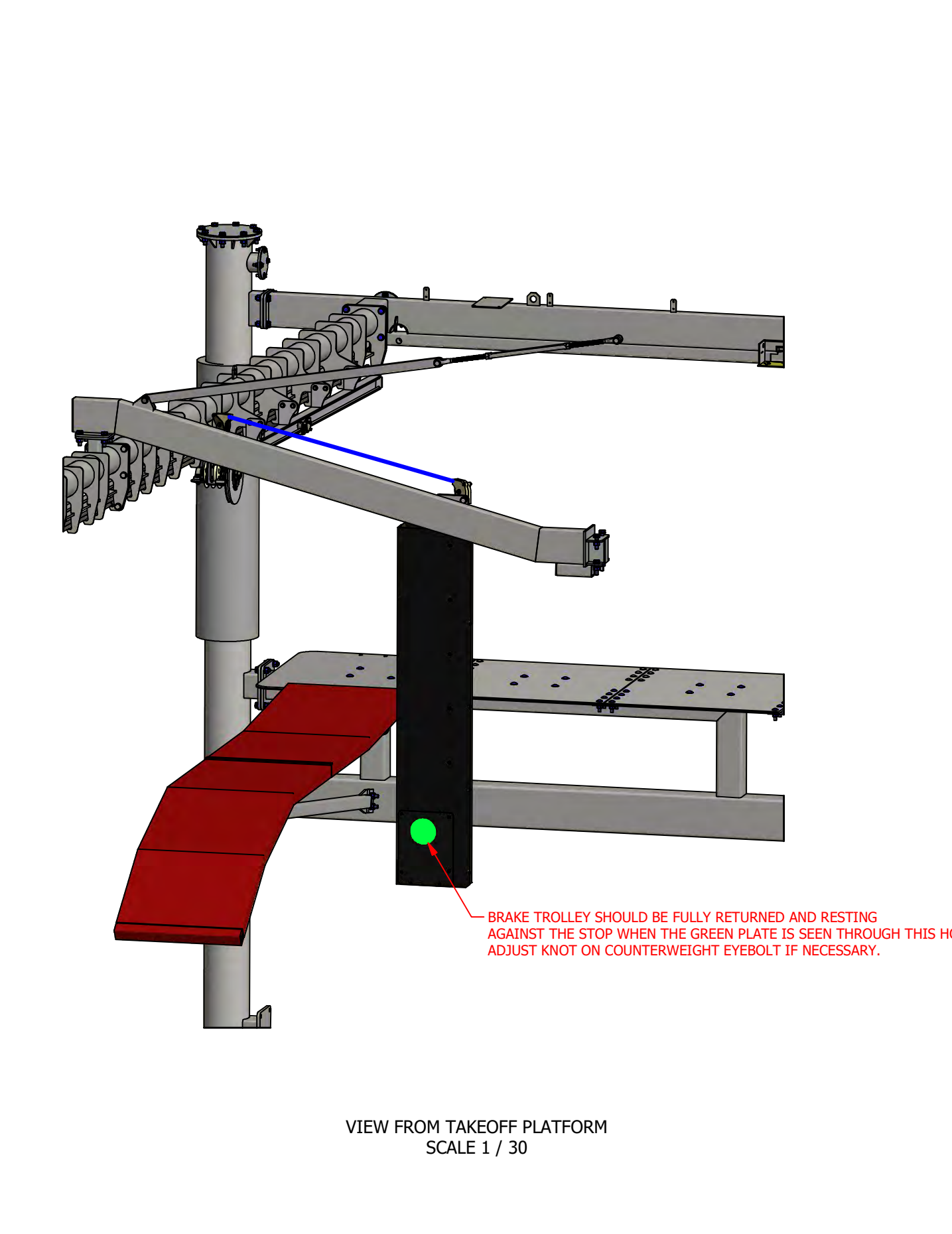
INSTALL BRAKE RAIL STOP LIGHT



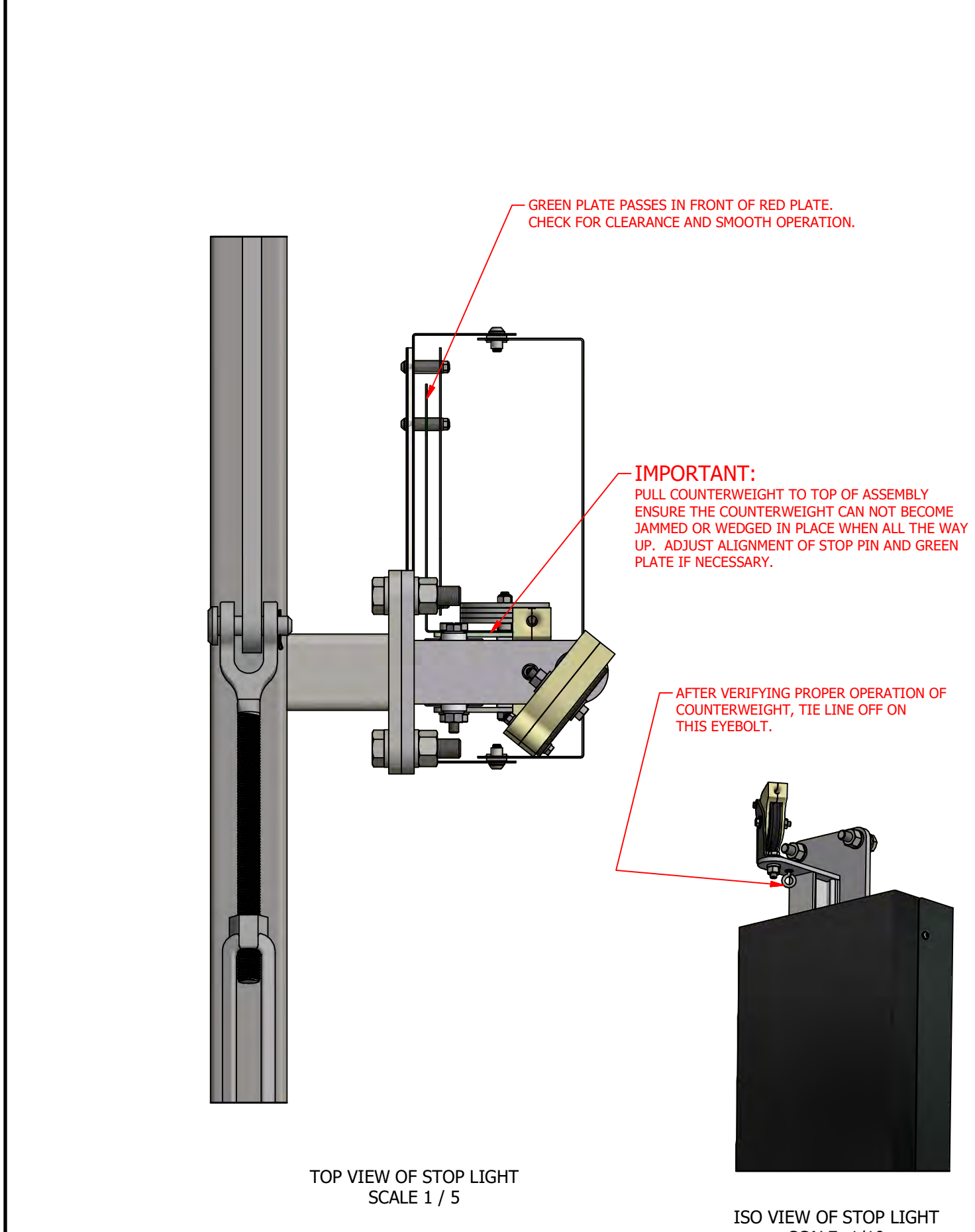
INSTALL BRAKE LINE



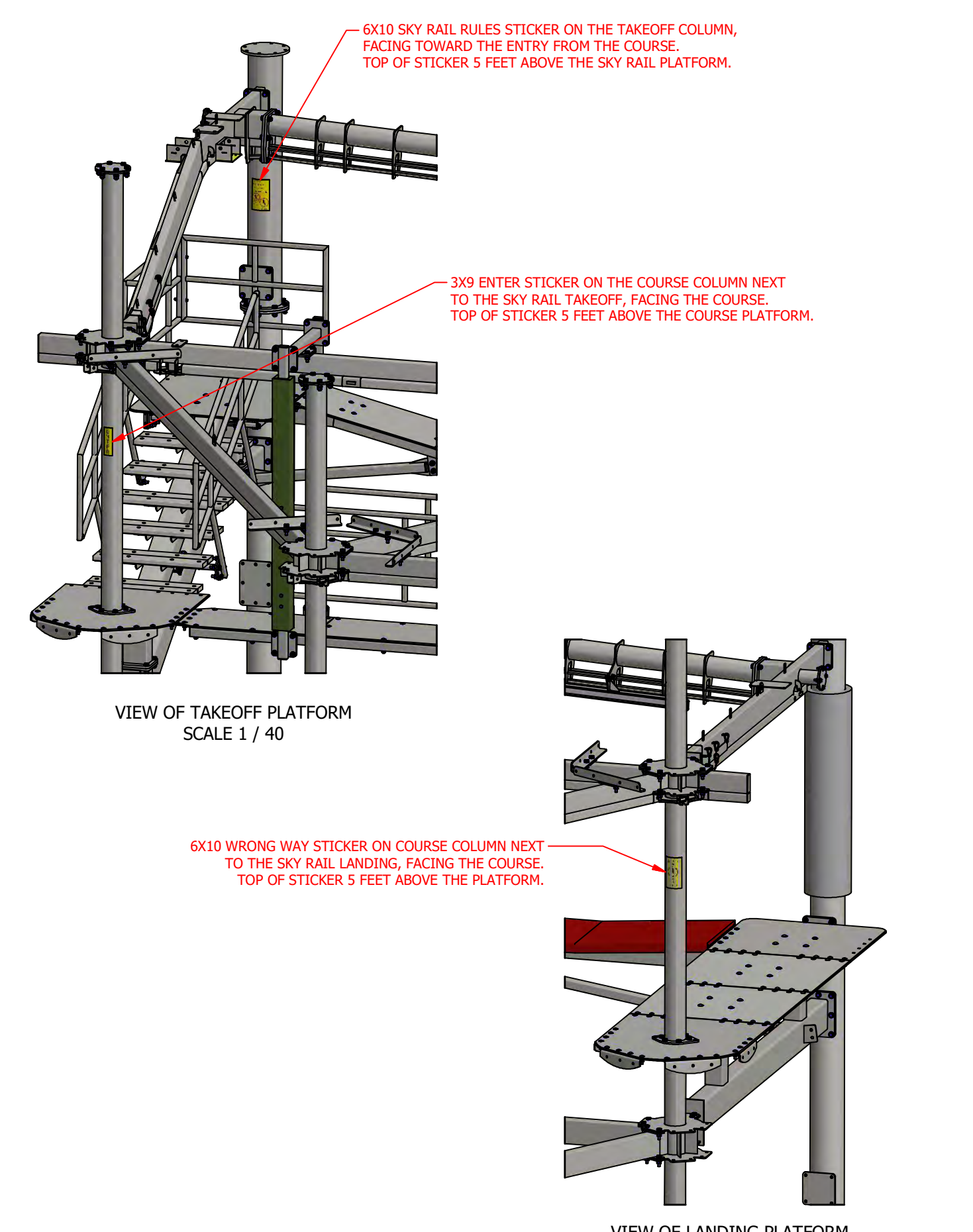
ADJUST COUNTER WEIGHT



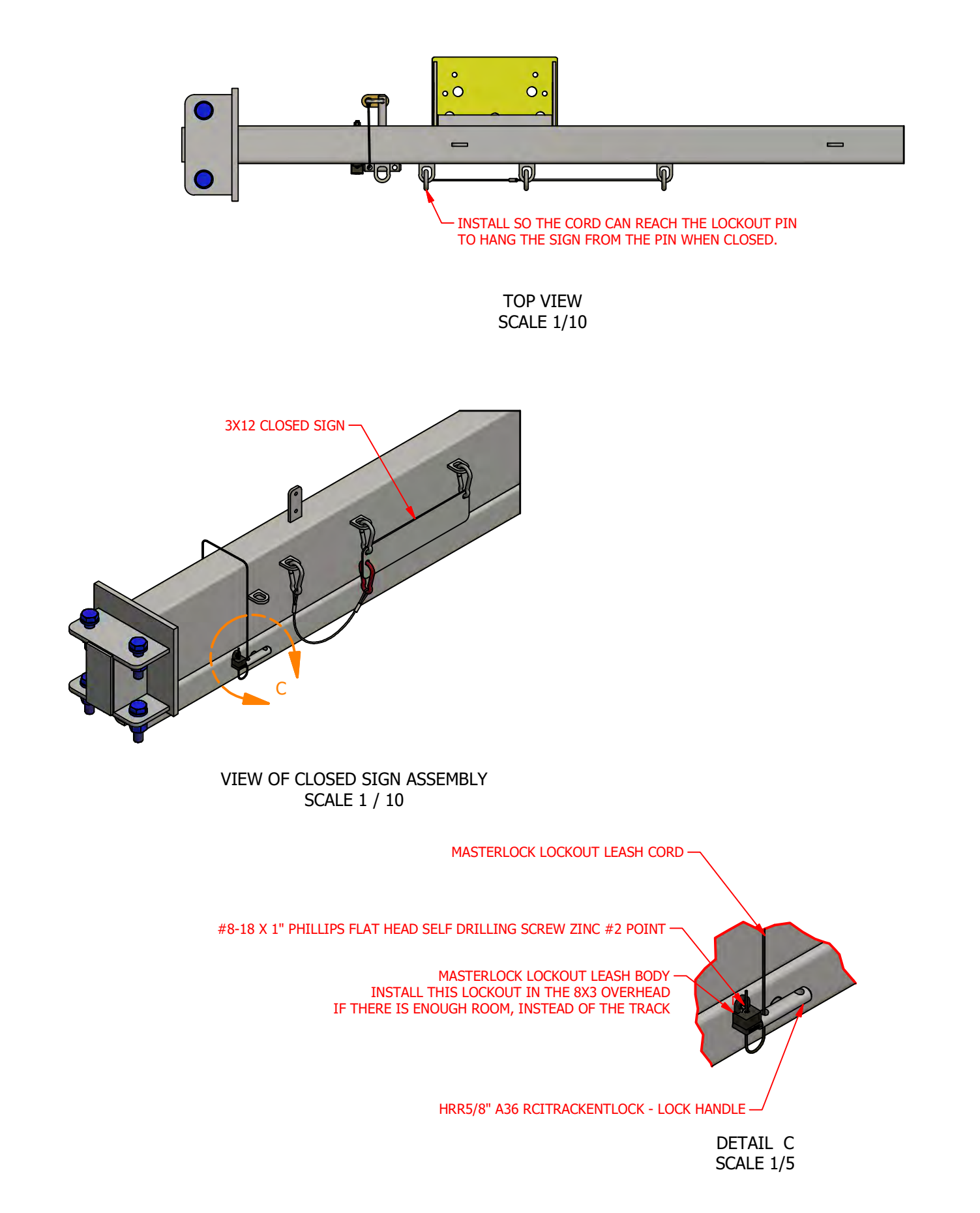
ADJUST STOP LIGHT



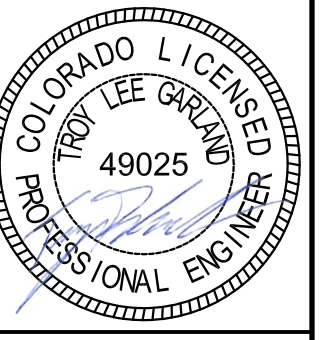
VERIFY STOP LIGHT OPERATION



INSTALL SYSTEM SIGNS



INSTALL SYSTEM CLOSED ASSEMBLIES



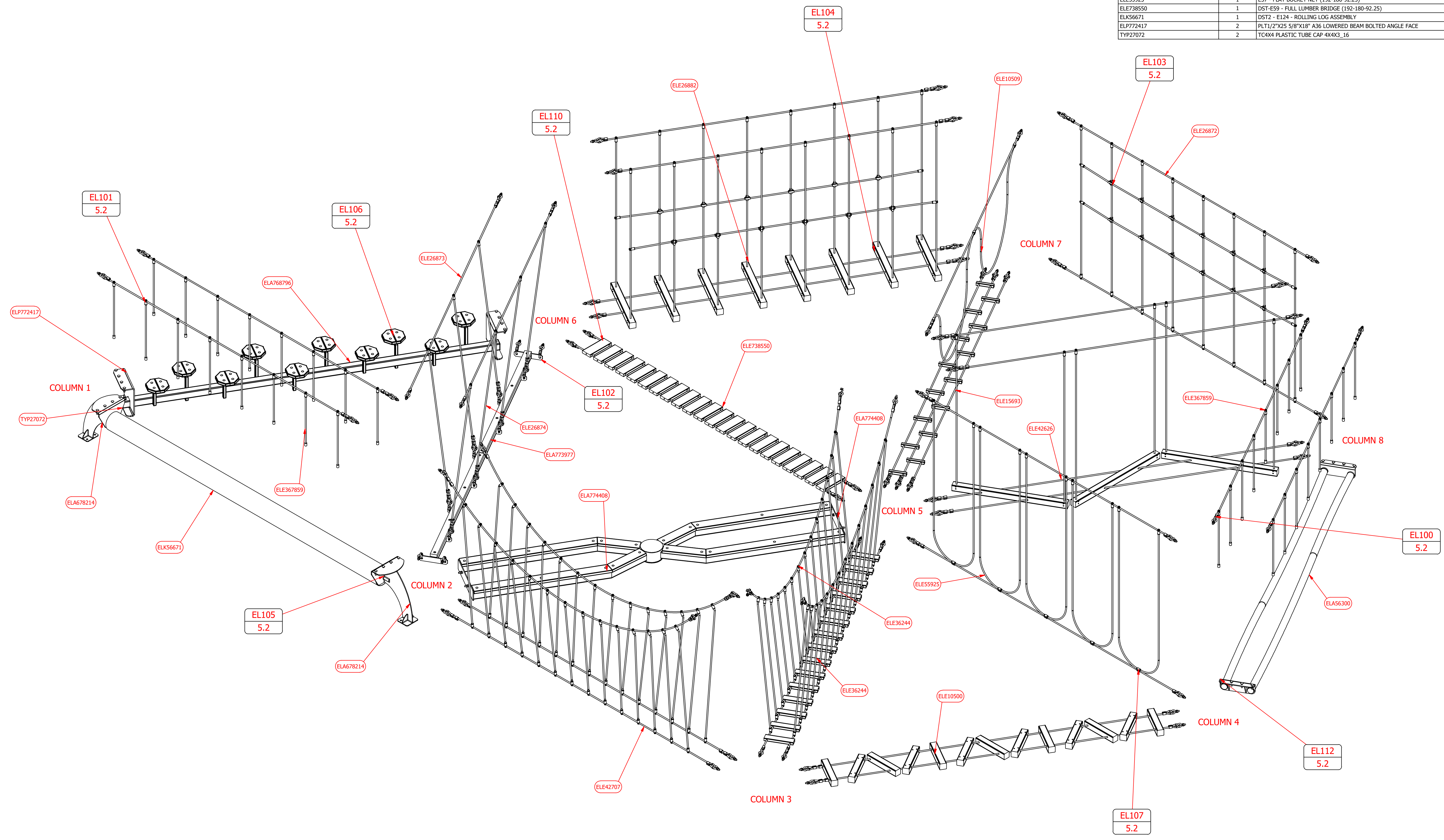
ELEMENT PARTS LIST			
PART NUMBER	ITEM QTY	DESCRIPTION	MASS
ELA56300	1	DST2 - E125 - KELP WALK (192)	279.2245 lbmass
ELA678214	2	DST2 - E124 - ROLLING LOG EFA	73.2013 lbmass
ELA768796	1	DST2-E32 - LILLY PADS (192)	307.2161 lbmass
ELA773977	1	DST2-E28 - 4IN ALTERNATING BEAM BURMA BEAM (192)	151.3368 lbmass
ELA774408	1	DST-E46 - X FACTOR BEAM (192)	466.2735 lbmass
ELE10500	1	DST2-E35 - RICKETY BRIDGE (192)	104.4808 lbmass
ELE10509	1	DST2-E44 - DOUBLE DROOPY HANDLINE (180)	8.5049 lbmass
ELE15693	1	DST2-E53 - THREE LINE LUMBER ROPE BRIDGE (192)	23.1464 lbmass
ELE26872	1	DST2-E88 - QUARTER FULL CARGO NET (192-180-92.25)	26.5930 lbmass
ELE26873	1	DST2-E28 - ABB ROPE HANGER RIGHT (180-92.25)	10.7976 lbmass
ELE26874	1	DST2-E28 - ABB ROPE HANGER LEFT (180-92.25)	13.0775 lbmass
ELE26882	1	DST2-E87 - STIRRUPS W HL (192-180-92.25)	155.2471 lbmass
ELE36244	1	DST2-E68-ISUSPENSION BRIDGE1 (192-180-92.25)	82.2204 lbmass
ELE367859	1	E134 - WAVE HANDLINE (180)	8.4785 lbmass
ELE42626	4	DST2-E38 - SWINGING STEPS (P192-E180-V92.25)	99.5548 lbmass
ELE42707	1	DST2-E102 - CHARLIE CHAPLIN SUSPENSION BRIDGE (92-180-92_25)	45.7891 lbmass
ELE55925	1	E57 - FLAT BUCKET NET (192-180-92.25)	24.0270 lbmass
ELE738550	1	DST-E59 - FULL LUMBER BRIDGE (192-180-92.25)	90.4010 lbmass
ELKS6671	1	DST2 - E124 - ROLLING LOG ASSEMBLY	243.0610 lbmass
ELP772417	2	PLT1/2"x25 5/8"x18" A36 LOWERED BEAM BOLTED ANGLE FACE	62.0236 lbmass
TPY27072	2	TC4X4 PLASTIC TUBE CAP 4X4X3_16	.5794 lbmass

SHEET: 5.0

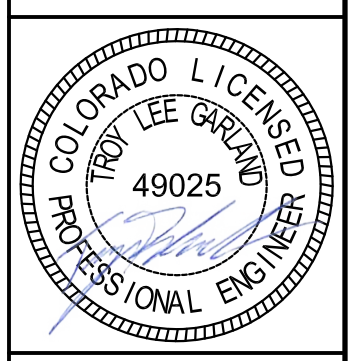
PROJECT NAME: BOONDOCKS FOOD & BEV. - PARKER
18706 COTTONWOOD DR. PARKER
CO 80138, USA

JOB NO: 10615
DESCRIPTION: 8 POLE 2 LEVEL CUSTOM SKY TRAIL@ DISCOVERY WITH (1) 60P SKY RAIL@ AND SUN SHADES

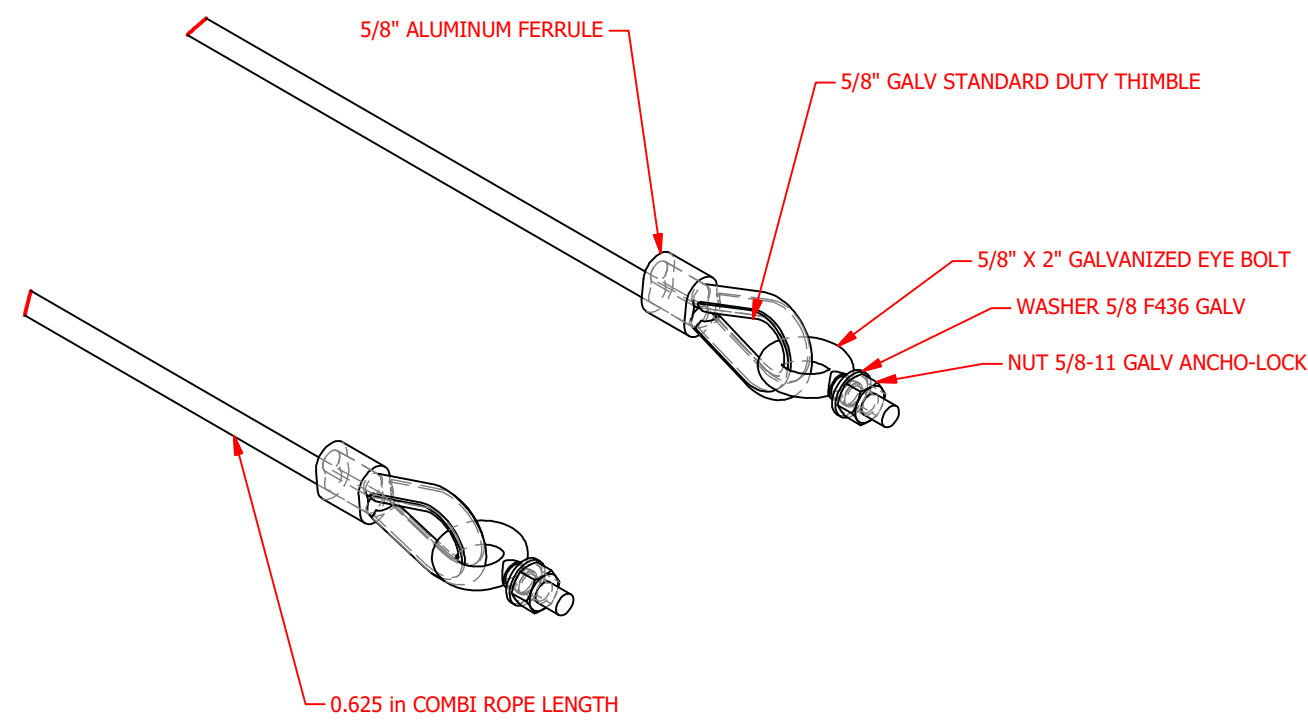
AUTHOR: ROSTAM DATE: 11/23/2021 REV:



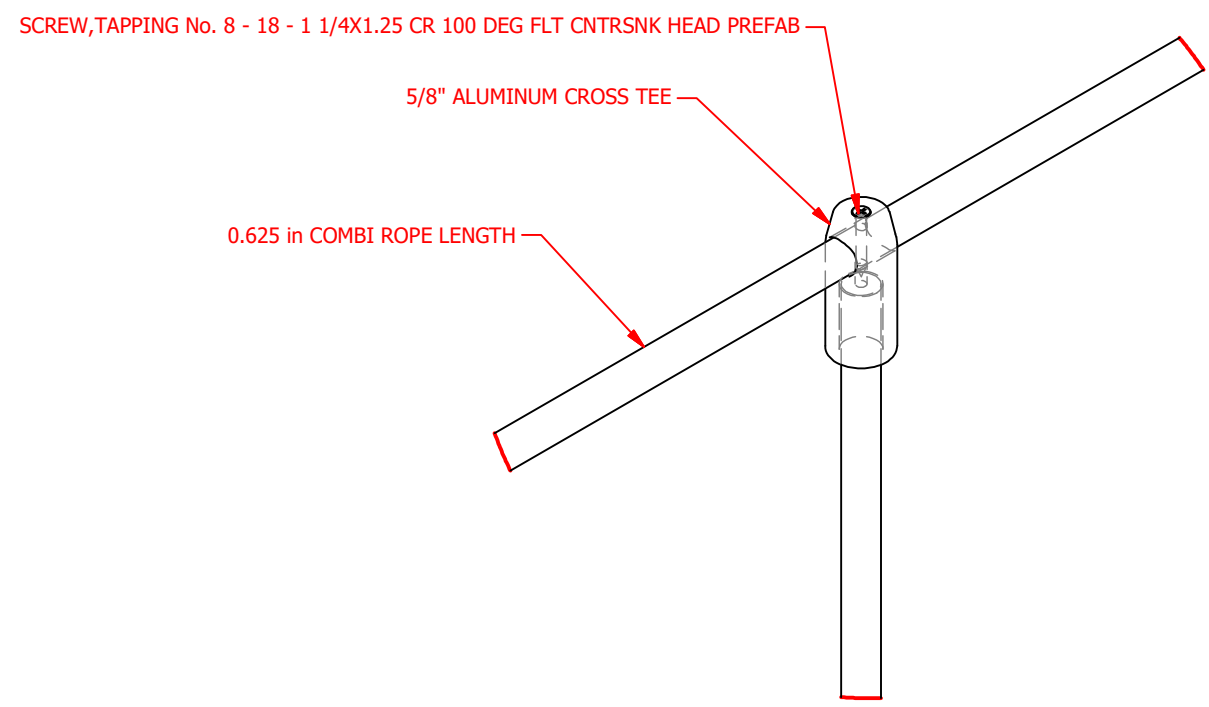
FIRST LEVEL ELEMENT LAYOUT



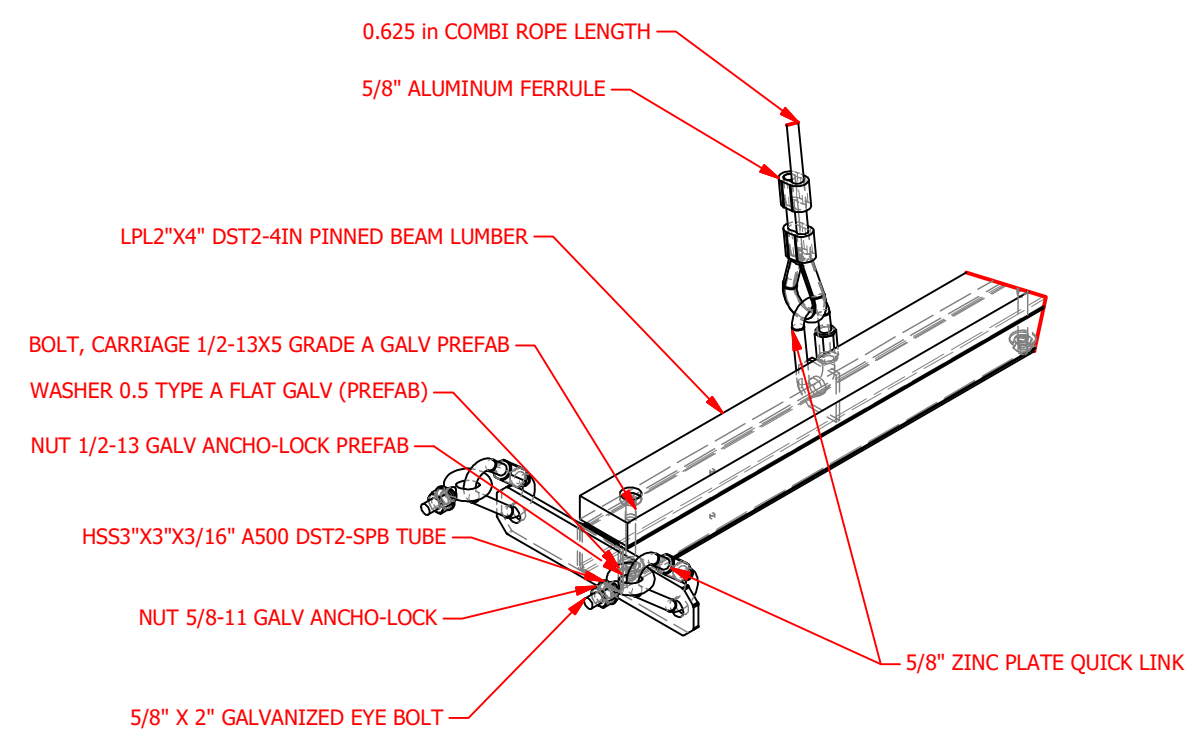
SHEET: 5.0



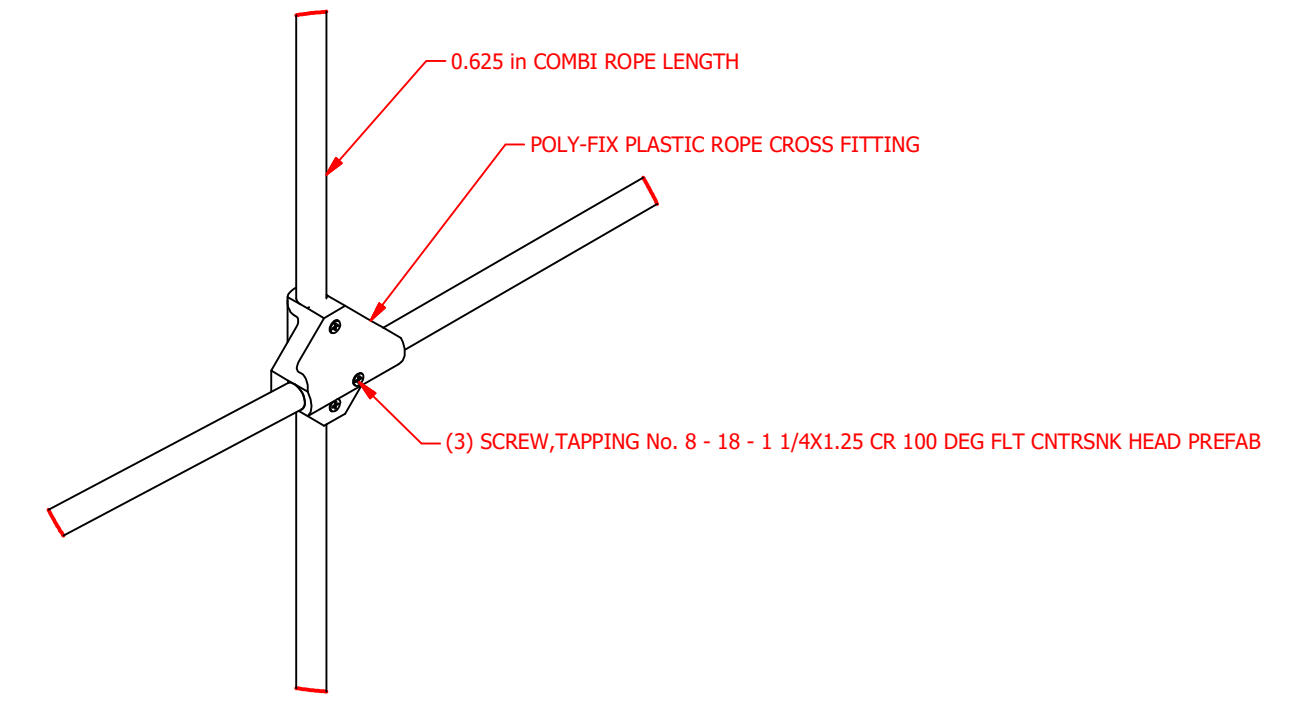
EL100 - ELEMENT ENDS



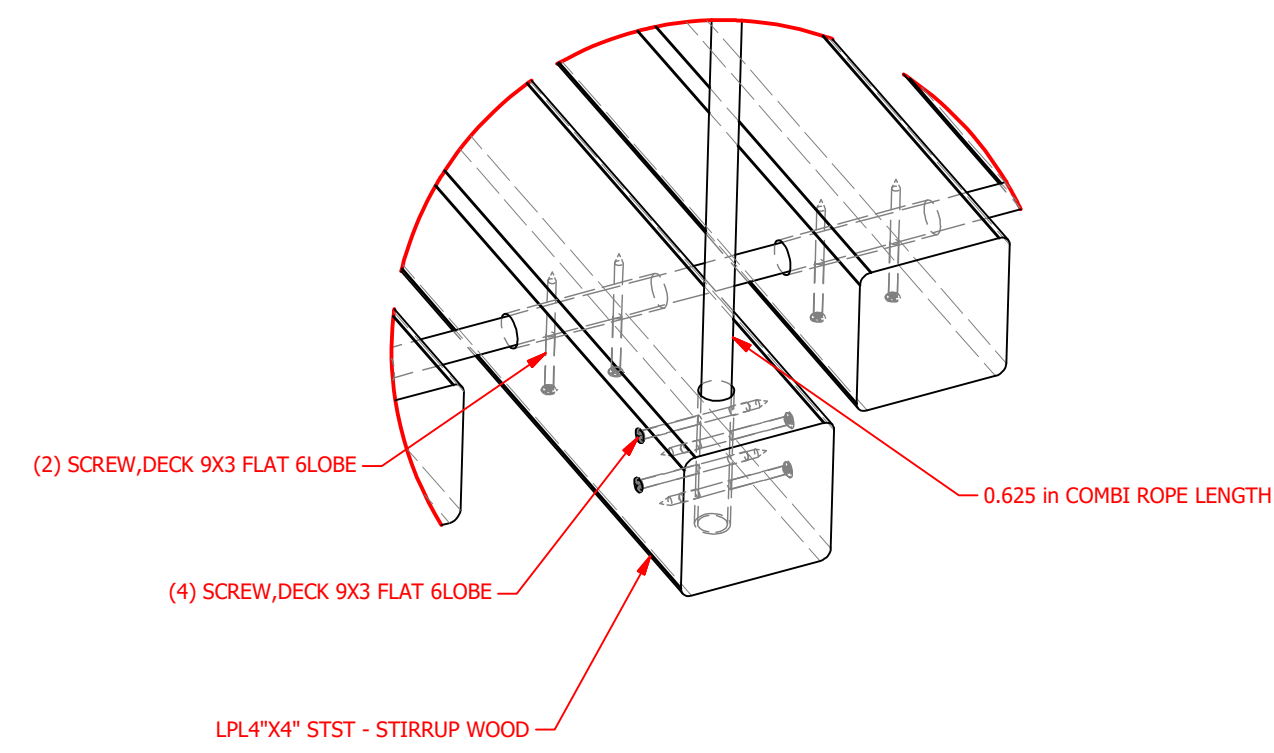
EL101 - CROSS TEE



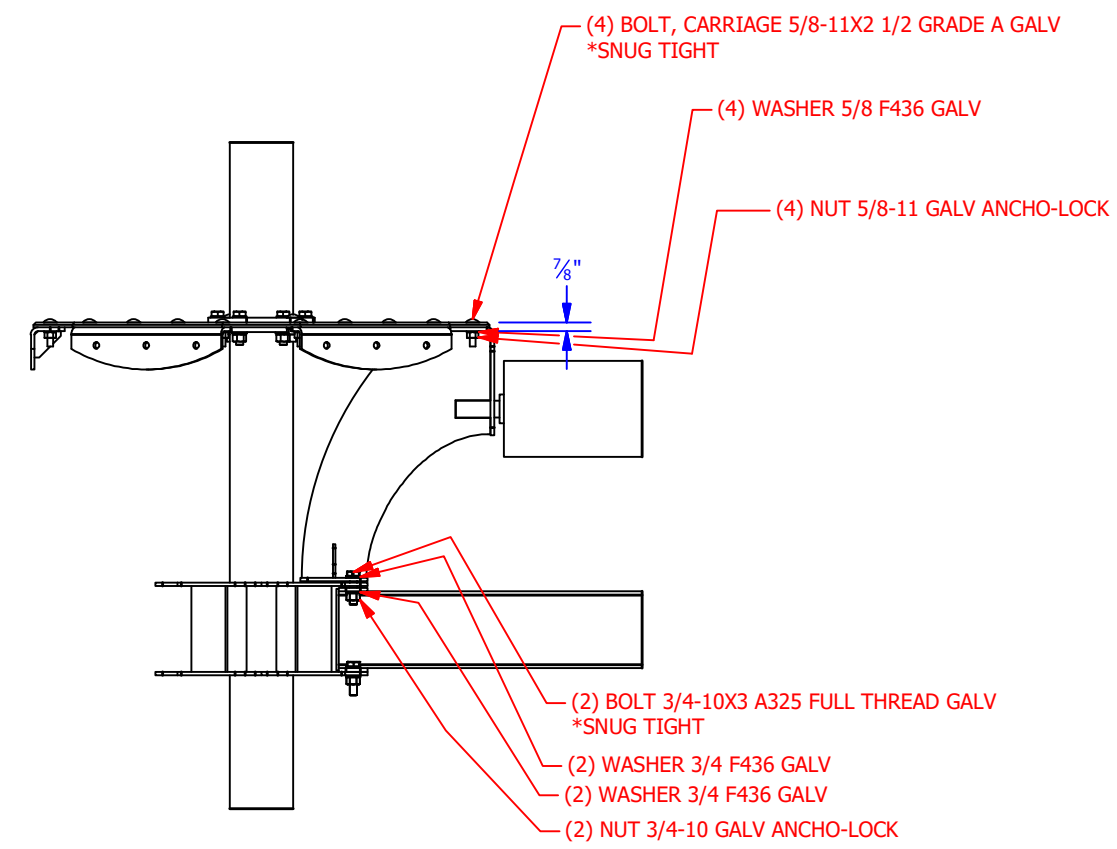
EL102 - 4 INCH ALTERNATING BURMA BEAM



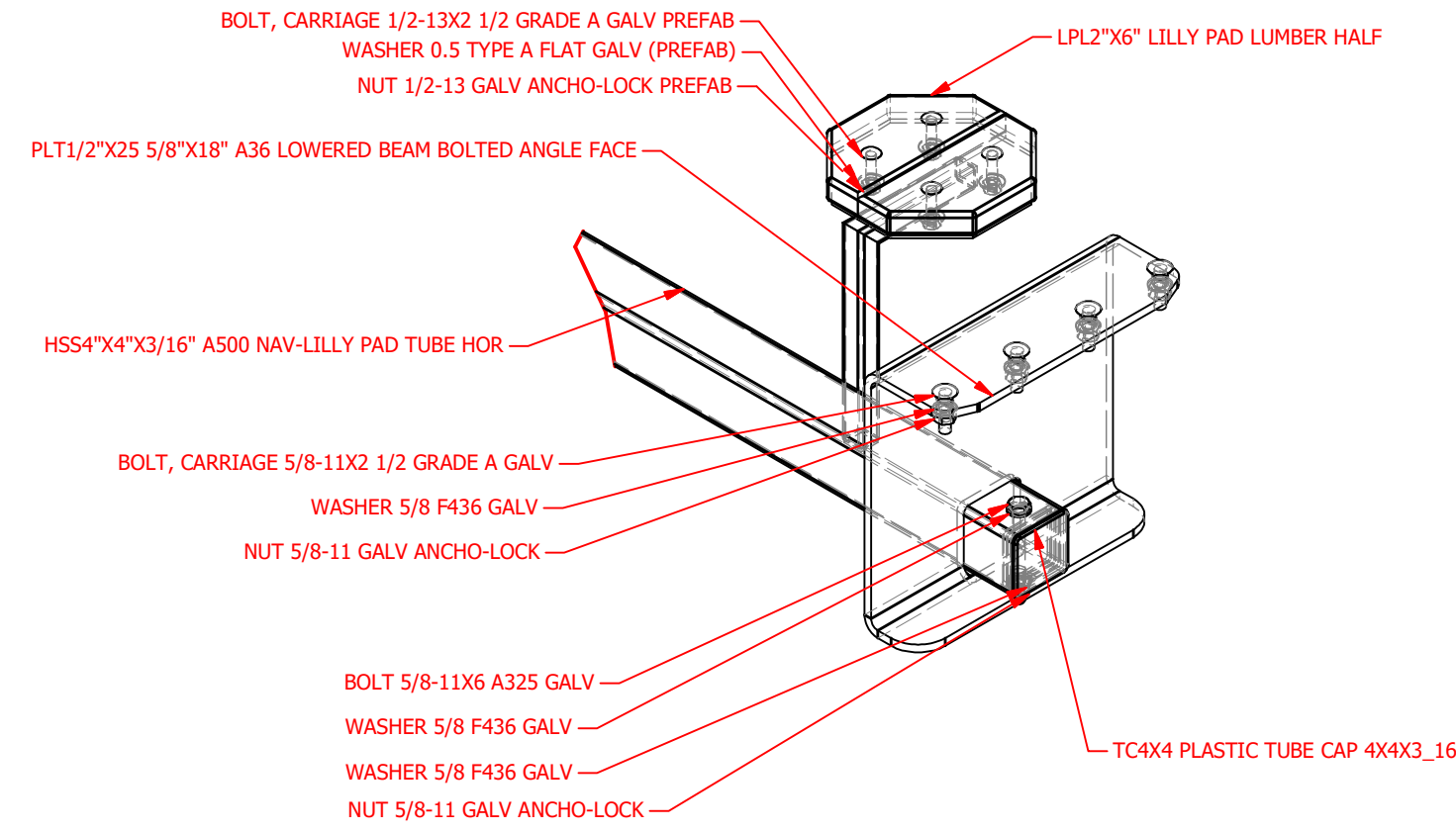
EL103 - CROSS FITTING



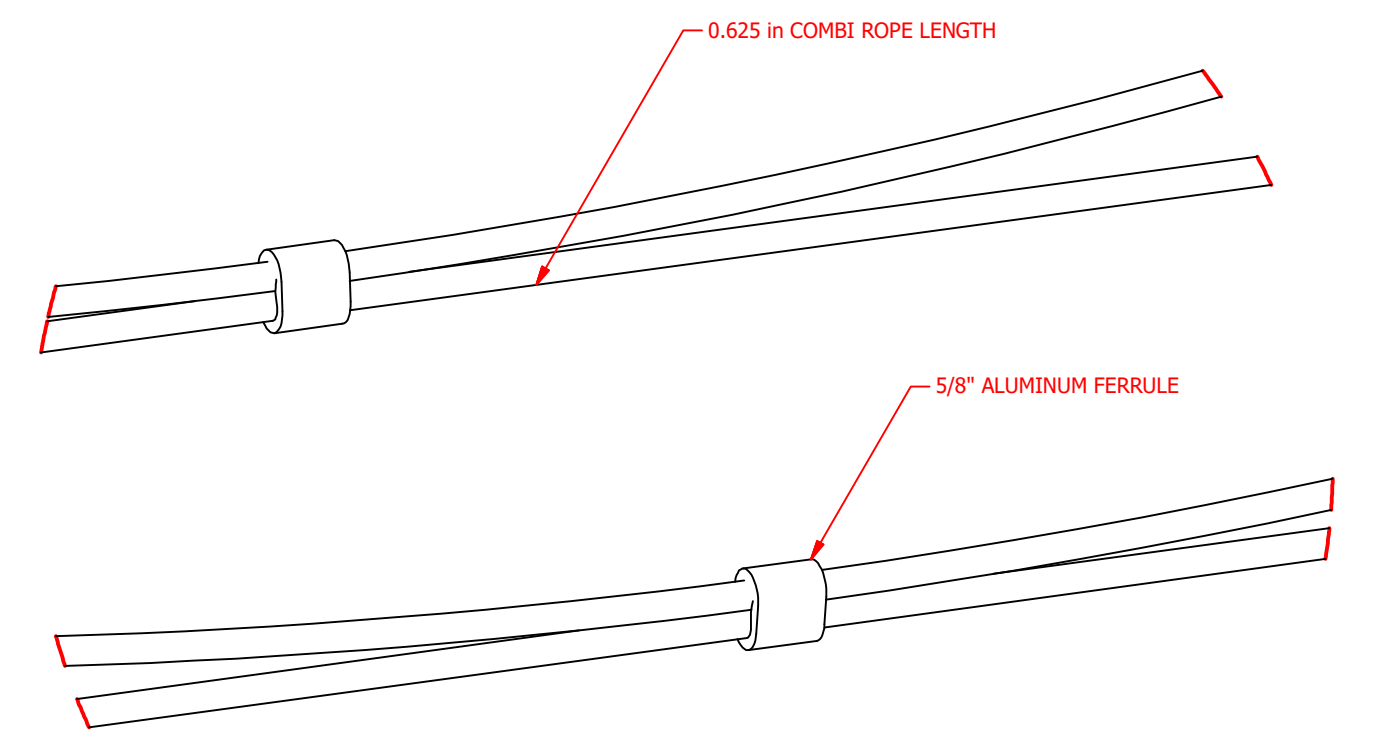
EL104 - STIRRUP



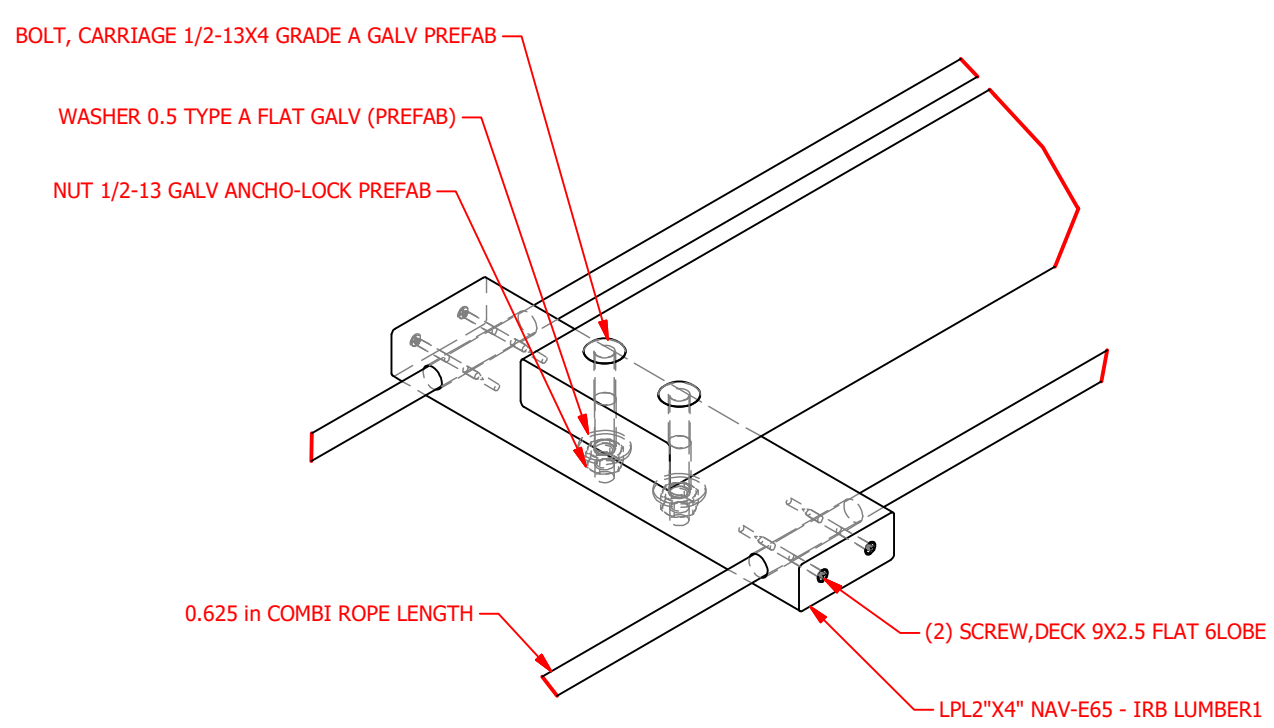
EL105 - ROLLING LOG



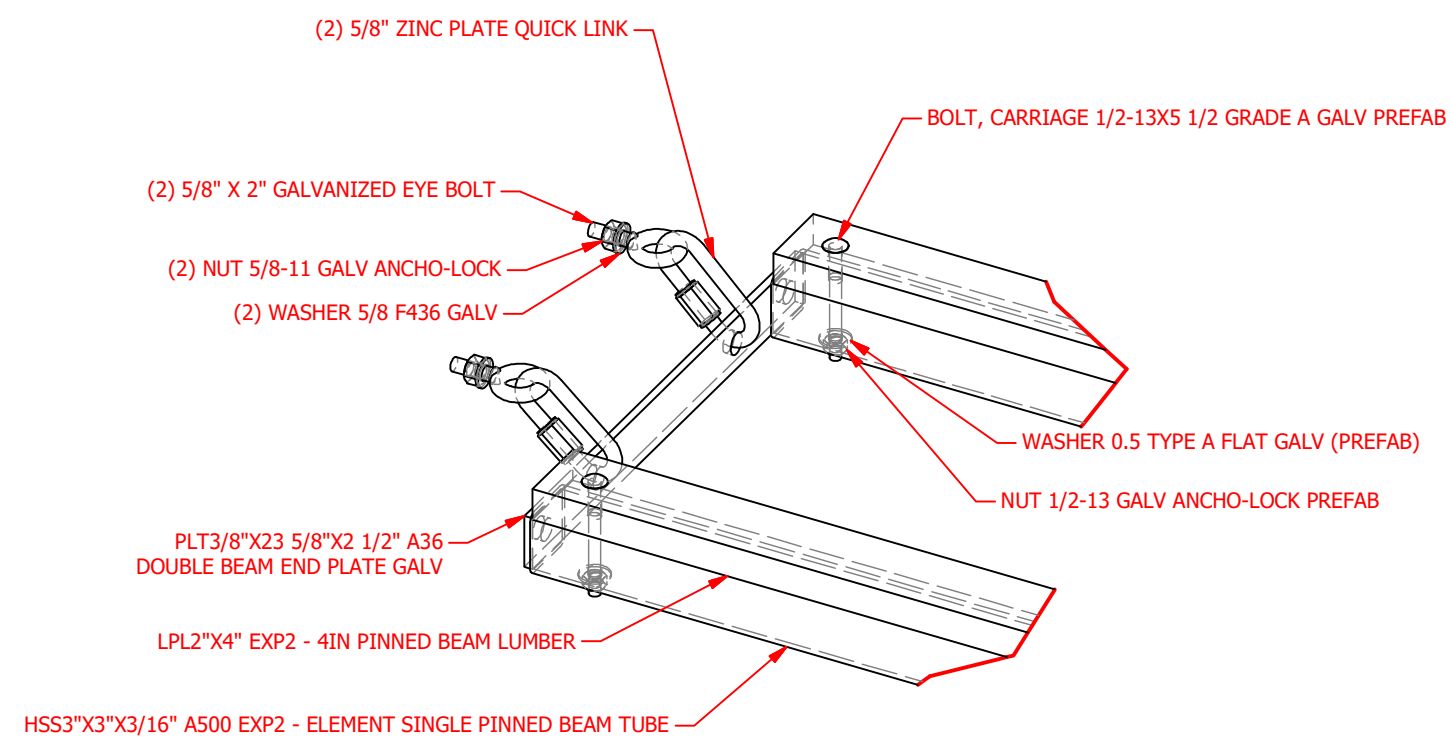
EL106 - LILY PAD



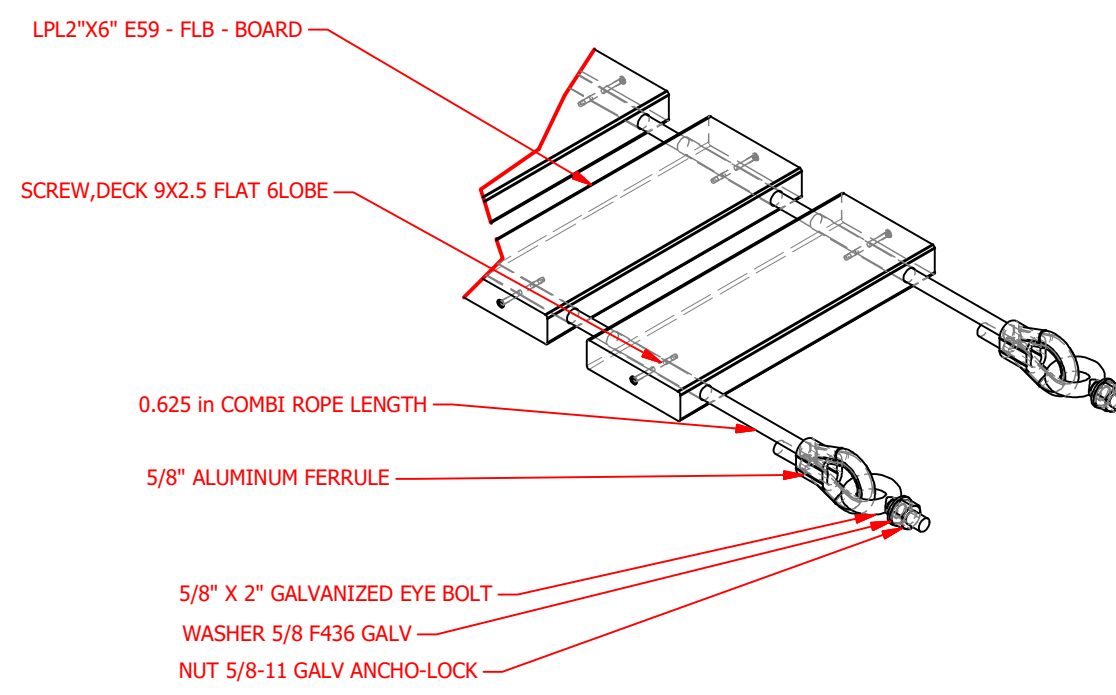
EL107 - FERRULE



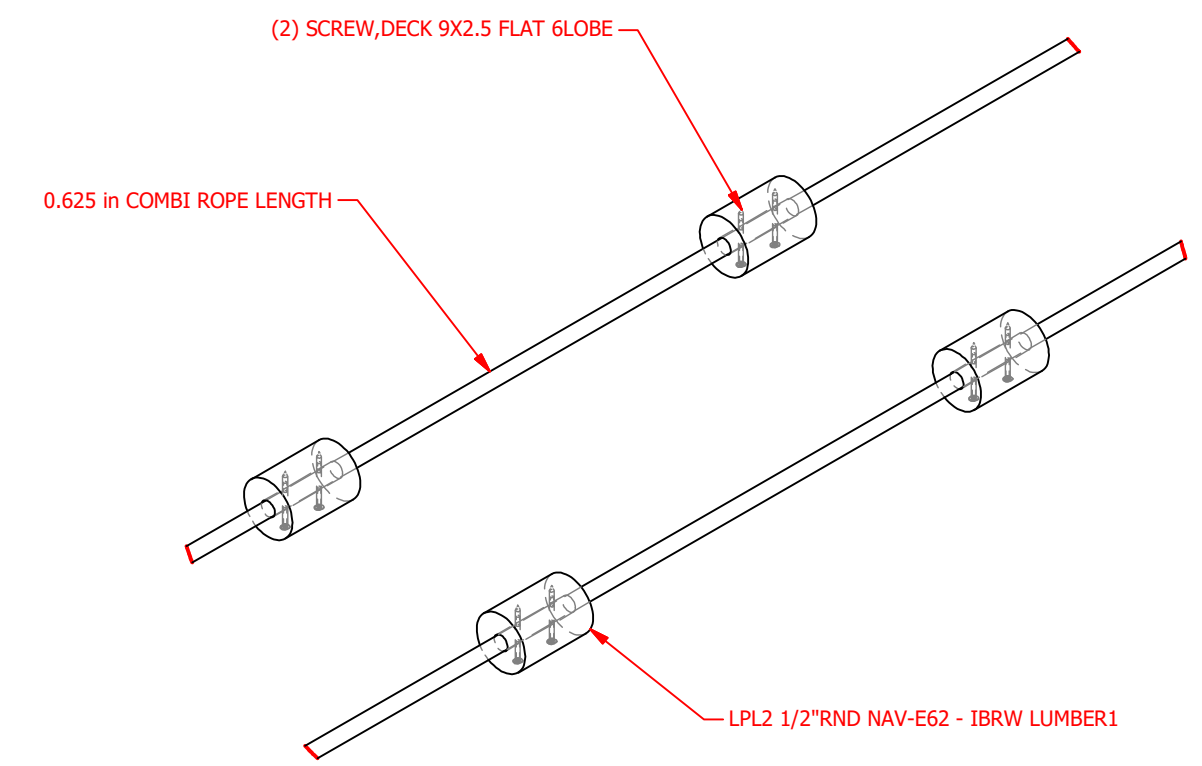
EL108 - PLUMBER TO PLUMBER



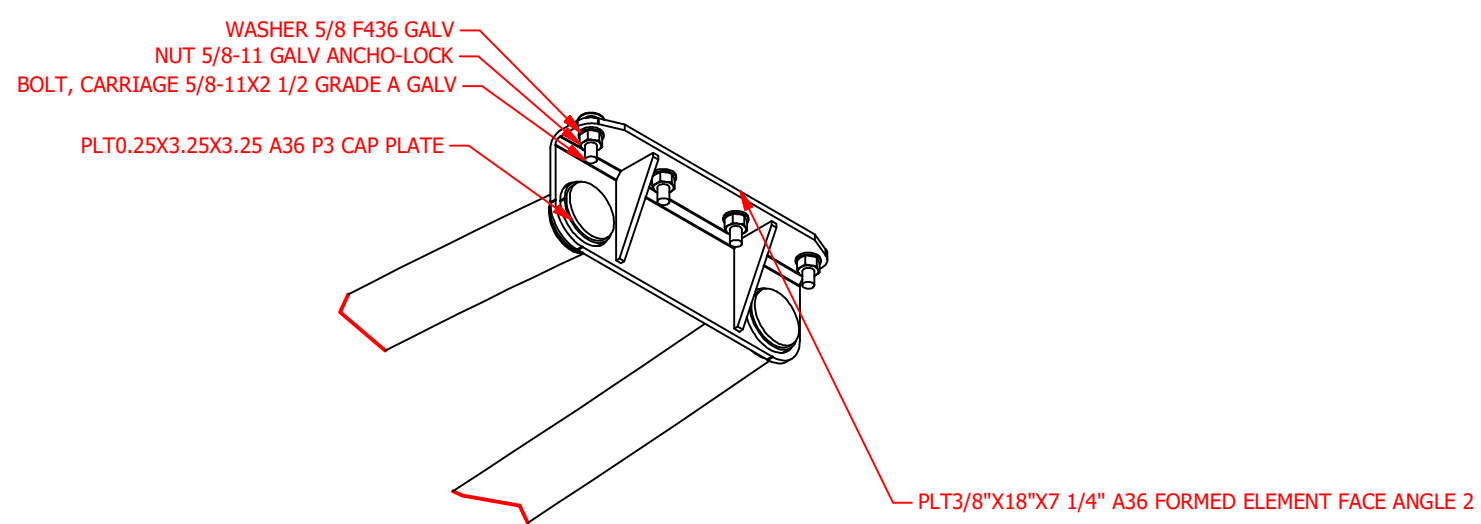
EL109 - PINNED BEAM



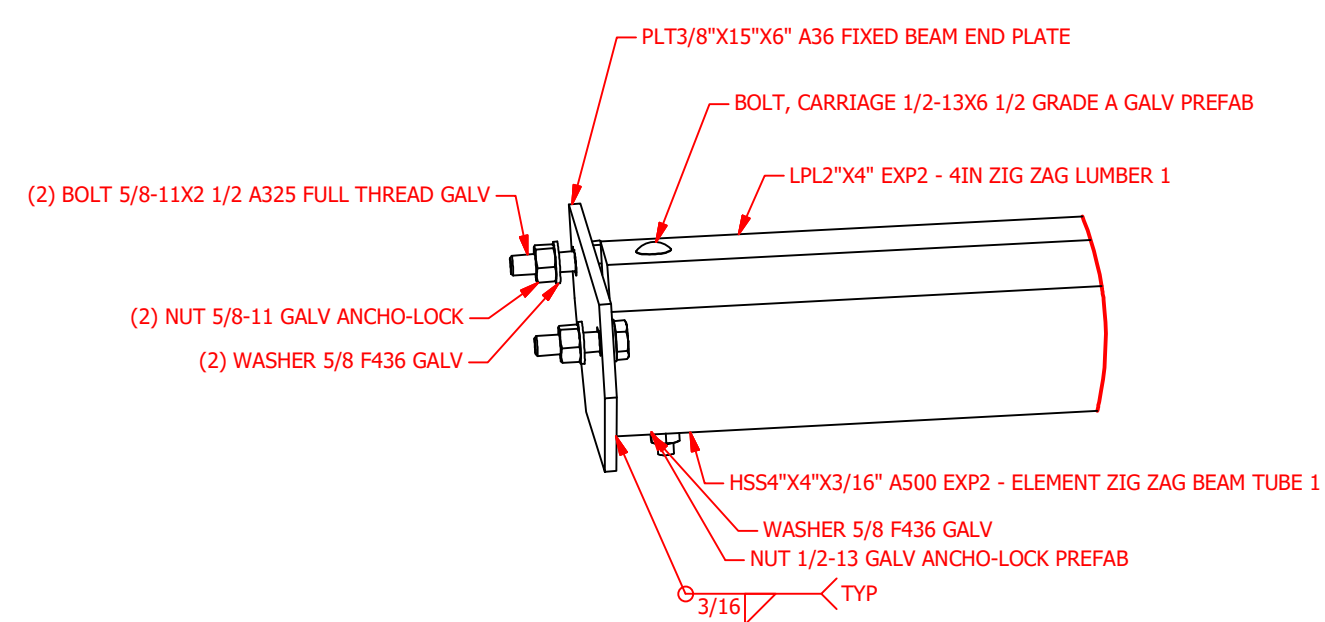
EL110 - FULL LUMBER BRIDGE



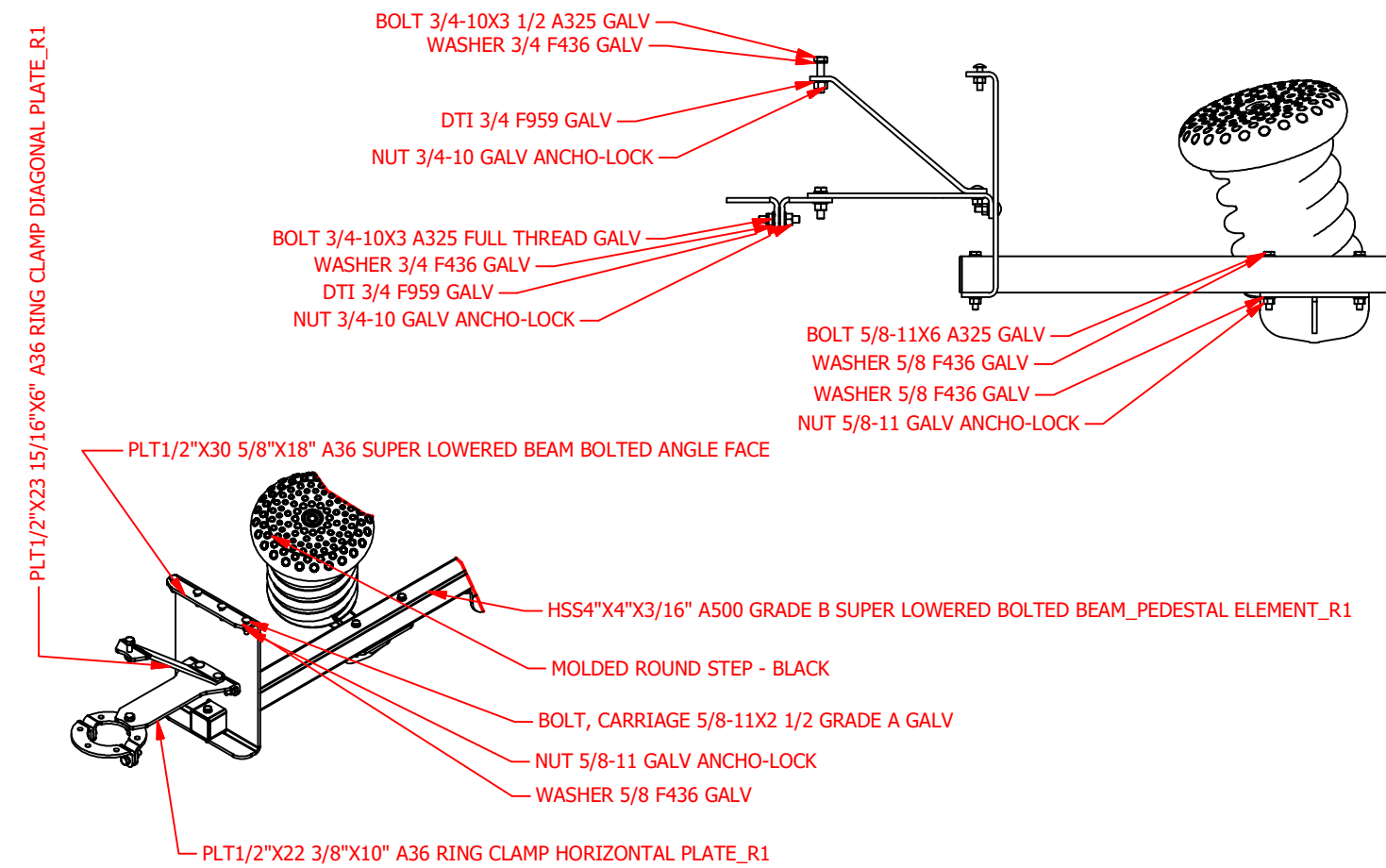
EL111 - BUMPY ROPE WALK



EL112 - KELP WALK



EL113 - BUMPY ZIG ZAG BEAM



EL114 - SPRING STEPS

