



Notice of Development Review

The Columbia River Gorge Commission is seeking comment on the following development review application:

FILE NUMBER:	C25-0009
PROPOSAL:	The Columbia River Gorge Commission has received an application for upgrades to an existing communications facility.
APPLICANT:	Jack Maguire (c/o Verizon Wireless)
LANDOWNER:	Janell Depolo
SIZE and LOCATION:	The subject parcel is approximately 30 acres in size and located on Stacker Butte and is described as Tax Lot Number 03-13-2500-0021/00 in the southeast quarter of Section 25, Township 3 North, Range 13 East, Willamette Meridian, Klickitat County, Washington.
LAND USE DESIGNATION:	General Management Area (GMA) – Agriculture Special
NOTICE DATE:	October 16, 2025
COMMENT DEADLINE:	November 6, 2025

The application and supporting documents are available for review Monday through Thursday from 8:00 a.m. to 5:00 p.m. at the Gorge Commission office at 57 NE Wauna Avenue, White Salmon, Washington. The application and supporting documents are also available on the Gorge Commission’s website at <http://www.gorgecommission.org/land-use/pending-applications/>.

This application will be reviewed for consistency with the Columbia River Gorge Commission’s Land Use Ordinance (Commission Rule 350-082). The Gorge Commission may consider comments about consistency with *Management Plan for the Columbia River Gorge National Scenic Area* and the Columbia River Gorge National Scenic Area Act, 16 U.S.C. §§ 544 - 544p. Copies of these authorities are available on the Gorge Commission’s website at <http://www.gorgecommission.org/about-crgc/legal-authorities/>.

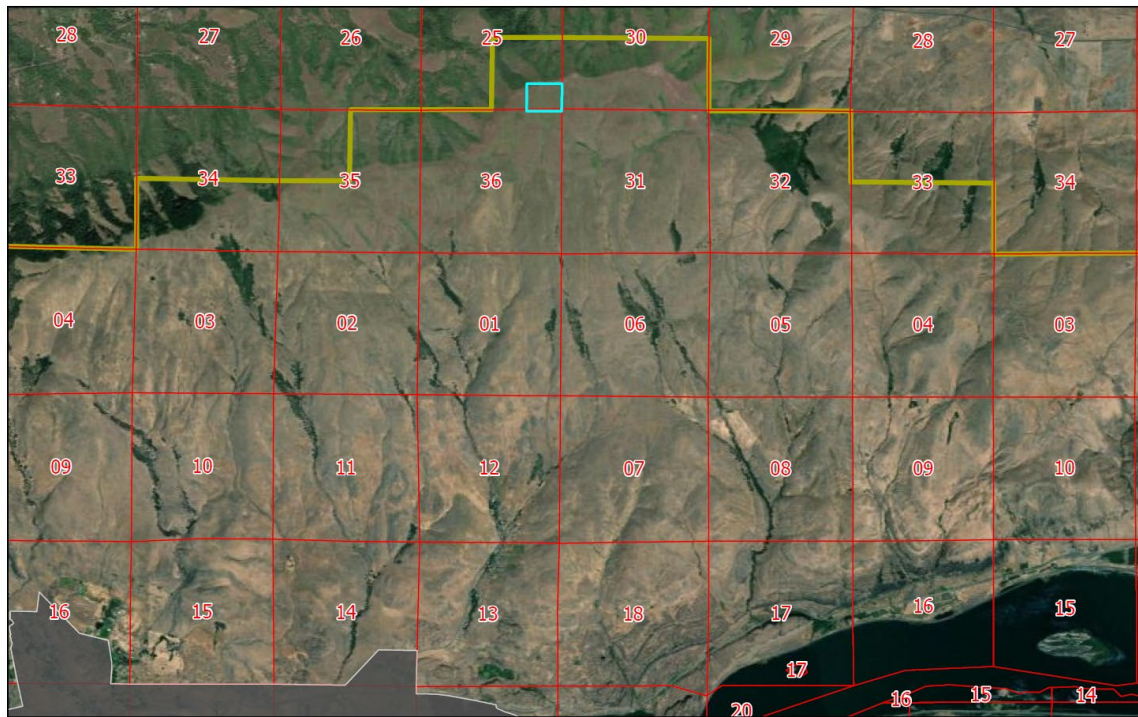
Comments may be mailed to the Gorge Commission office at P.O. Box 730, White Salmon, WA 98672 or emailed to info@gorgecommission.org. All comments received are public

records and will be provided to persons who request a copy in accordance with the Gorge Commission's rule governing public records (Commission Rule 350-12).

Consistency with the National Scenic Area Act does not imply or ensure compliance with any other applicable local, state, or federal law.

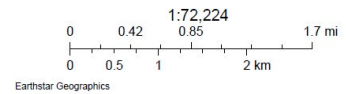
If you have any questions, please contact Bryce Guske at (509) 713-9622 or by email at bryce.guske@gorgecommission.org.

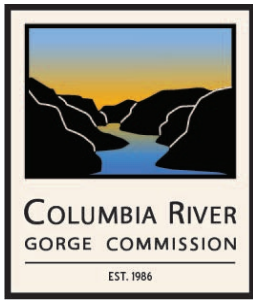
C25-0007 Maguire (Verizon)



10/13/2025, 4:25:11 PM

- Urban Areas
- NSA Exterior Boundary
- Sections





For office use:
Application No. _____

Land Use Application

Applicant(s)

Jack Maguire, Ryka Land Services on behalf of Verizon Wireless

Mailing Address:

7525 SE 24th Street Mercer Island, WA 98040

Phone:

206-523-1941

Email

jmaguire@rykalandservices.com

Property Owner(s)

Depolo Trustee, Janelle

Mailing Address:

PO Box 371788 Las Vegas, NV 89137

Phone:

702-545-8081

Email

abdoloissahalaeddine@gmail.com

Street Address of Parcel

Unassigned Address, Klickitat, WA 98635 Parcel # 03132500002100

Township, Range, Section, Qtr. Section

31-3N-14E

Tax Lot Number(s)

03132500002100, S990 of SESE; 25-3-13

Parcel Size

30.31

Summary of Proposal

Proposal for a Verizon Wireless collocation project on existing 120' US Cellular lattice tower. Adding (3) antenna sector mounts, (6) panel antennas, (6) remote radio units, (3) air/antenna radios on existing tower. Adding (240 sf) VZW ground equipment lease area, (44sf) concrete equipment slab, (36sf) concrete generator slab, (1) 30kw diesel generator, protective fencing.

Existing Use of Parcel

Unmanned Telecommunications Facility

Existing Buildings and Structures: Please provide the following information for each building and structure on the parcel.

Building or Structure (do not include fences or roads)	Size (square feet)	Height (measure from lowest point)	Length and Width	Year Built (if known)
120' US Cellular lattice tower	2500	120'	50' x 50'	TBD

Detailed Project Description: Please describe all proposed development and use of the development, including size, height, exterior colors, construction materials of proposed structures (including access roads), areas of ground disturbance, landscaping details, and structures that you propose to remove. Please describe all aspects of your project in this description or the public notice and final decision may not include an element of your development, which could require a new notice and decision. You may attach additional pages if necessary.

Proposal for a Verizon Wireless collocation project on existing 120' US Cellular lattice tower. Adding (3) antenna sector mounts, (6) panel antennas, (6) remote radio units, (3) air/antenna radios on existing tower. Adding (240 sf) VZW ground equipment lease area, (44sf) concrete equipment slab, (36sf) concrete generator slab, (1) 30kw diesel generator, protective fencing. See attached site plan for details on existing compound and proposed equipment.

Adjacent Uses: Please briefly describe the use of parcels that adjoin your parcel, including use, number and types of buildings, approximately distance from the property lines, and access roads.

Nearby parcels are all undeveloped land, with land use codes of 67. There are no nearby buildings to the existing unmanned telecommunications facility.

Signatures and Authorization to Access the Property: The property owner and holders of easements and partial interests indicate that they are aware that this application is being made on the subject property and the property owner authorizes the Gorge Commission and the Commission’s designees reasonable access to the site to evaluate the application. Property owners and easement or partial interest holders may sign copies of this signature page.

Applicant(s) signature:	Date
<i>Jack Maguire</i>	09/11/25

Property owner(s) signature:	Date

Easement and Partial Interest(s) signature:	Date

Site Plan

(Indicate scale: each grid equals ___ x ___ feet)

See engineer stamped drawings for detailed site plan and existing tower analysis

Key Viewing Areas

Key viewing areas are important public viewpoints and areas that afford opportunities to view the Gorge scenery (350-082-0070(108)).

Please check which of the following key viewing areas that can be seen from your proposed development site, even if the building site is blocked by trees. You do not need to check key viewing areas that are blocked by topography.

- Historic Columbia River Highway
- Old Highway 8
- Highway I-84
- Washington State Route 14
- Washington State Route 141
- Washington State Route 142
- Panorama Point Park
- Columbia River
- Rowena Plateau and Nature Conservancy Viewpoint
- Cook-Underwood Road

If your project could be visible from one or more key viewing areas, then you must submit elevation drawings and landscaping details.

Elevation drawings must show the sides of proposed buildings that could be visible from key viewing areas, must be drawn to scale, and must include the following:

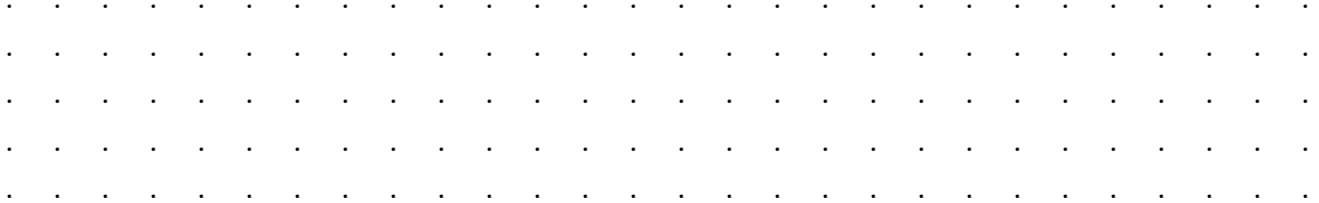
- Geometrical exterior of the length and width of structures as seen from a horizontal view.
- Sizes and dimensions of windows, doors, and covered openings;
- Natural grade
- Finished grade

Landscape details must show how you propose to screen your project from key viewing areas and must include the following:

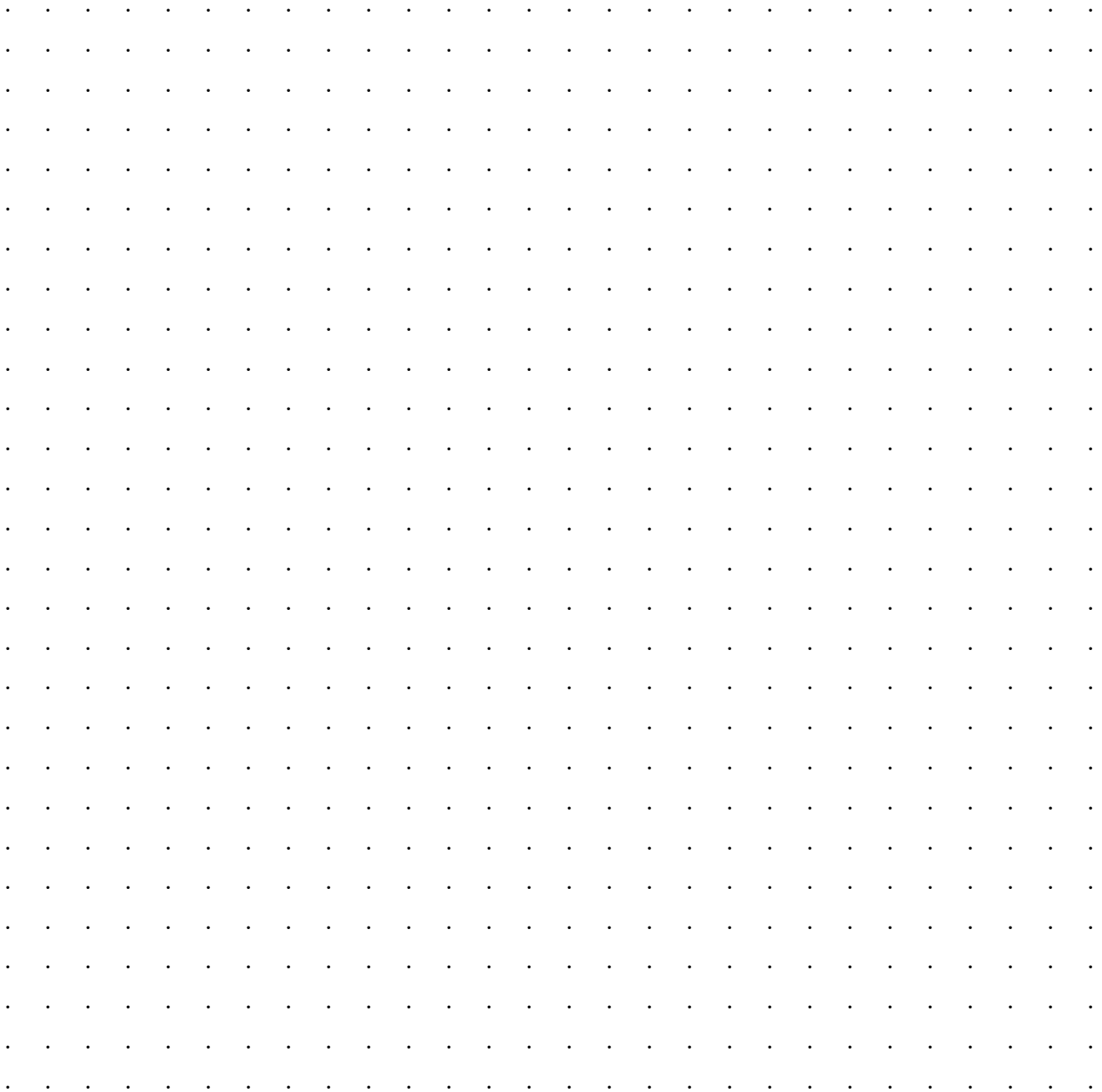
- Location of plants used
- Number of plants
- Size of plants
- Type of plants
- Irrigation provisions or other measures to ensure the survival of landscaping planted for screening purposes
- Location of existing and proposed topographical features, such as berms, that would screen your project.

Elevations and Site Plan Details

(Indicate scale: each grid equals ___ x ___ feet)

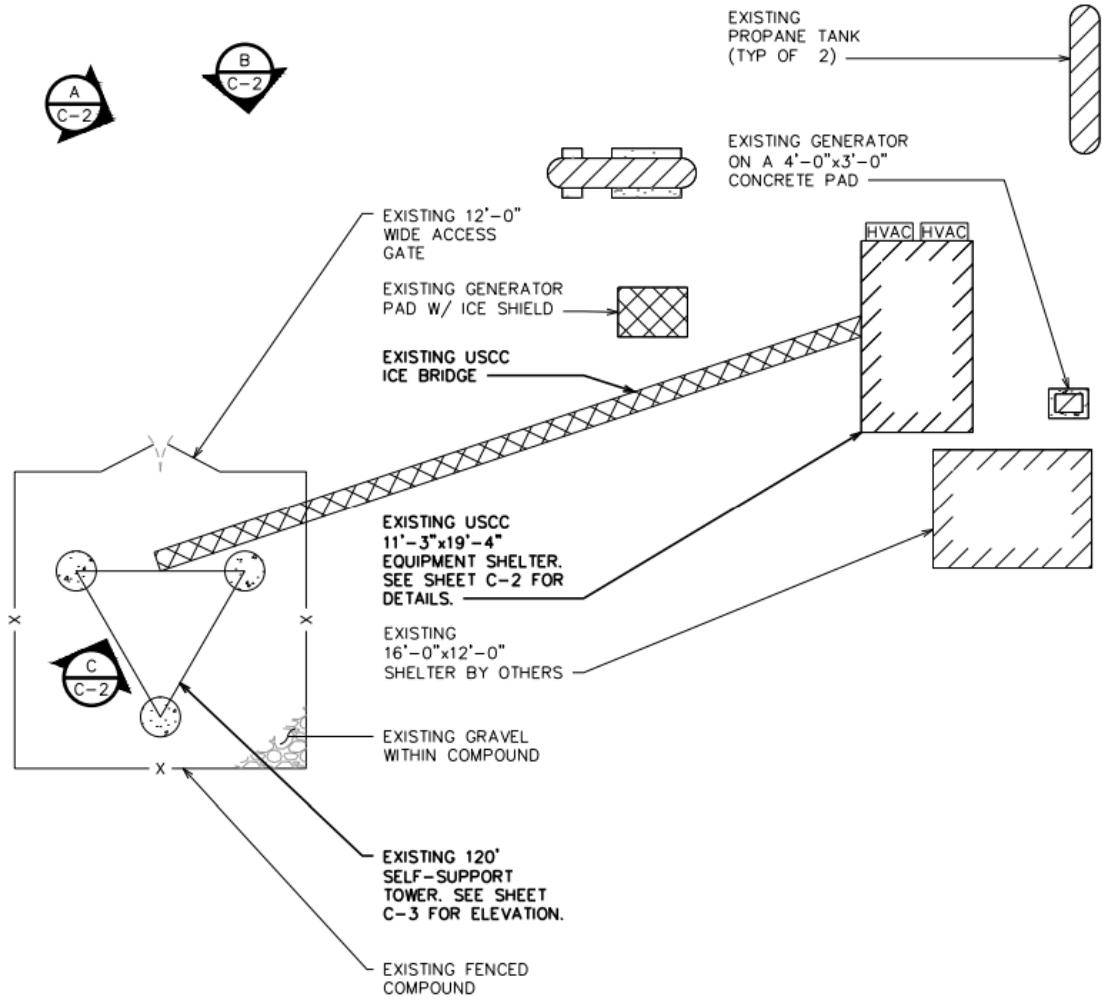


See engineer stamped drawings for detailed site plan and existing tower analysis



Adjacent Property Owners

Township, Range, Section, Tax Lot Number	Name and Address (and e-mail if possible)
25-3N-13E 03132500002000	Department of Natural Resources, unassigned address
36-3N-13E 03132500001900	Department of Natural Resources, unassigned address
31-3N-14E 03143000000700	Department of Natural Resources, unassigned address
31-3N-14E 03133600000101	Department of Natural Resources, unassigned address





VZW SITE NAME: STACKER BUTTE - ALT 1

US CELLULAR ASR - 457
SITE - 385344

SITE ADDRESS: UNASSIGNED ADDRESS
KLIKITAT, WA 98635



LAND SURVEYING
ENGINEERING
ARCHITECTURE
DRONE INSPECTION
REAL ESTATE SERVICES



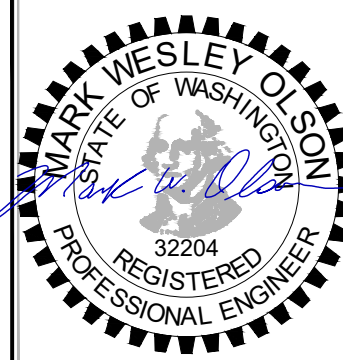
TOWER OWNER DRAWINGS
 CARRIER DRAWINGS

STACKER BUTTE ALT 1

UNASSIGNED ADDRESS
KLIKITAT, WA 98635
KLIKITAT COUNTY

REVISIONS

REV.	DATE	DESCRIPTION	BY
A	12/06/24	ISSUED FOR 90% CD REVIEW	RLD
0	06/24/25	ISSUED FOR 100% CD SUBMITTAL	RLD

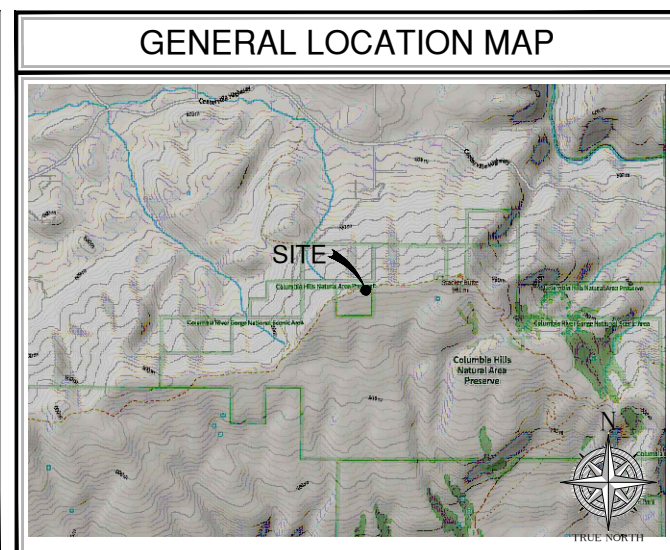
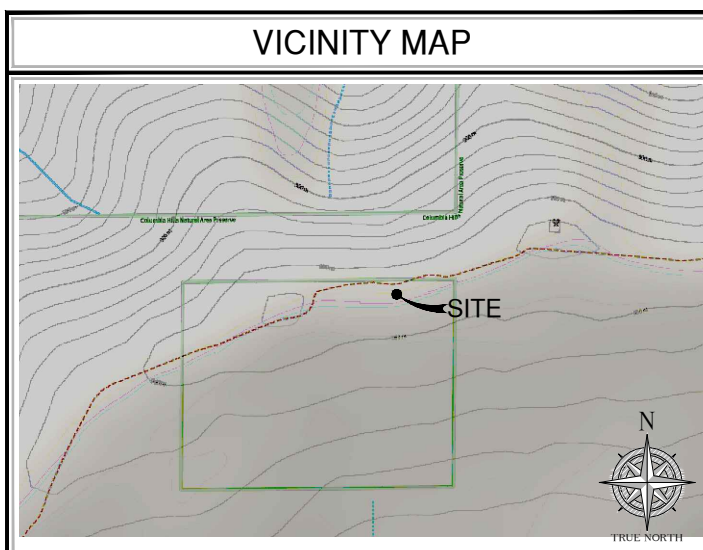


9-11-2025

TITLE SHEET

SHEET
T-1

PROPRIETARY INFORMATION:
THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO VERIZON WIRELESS SERVICES IS STRICTLY PROHIBITED.



PROJECT CONTACTS

APPLICANT/LESSEE:
VERIZON WIRELESS
3255 160TH AVE SE
BUILDING 10, FLOOR 3
BELLEVUE, WA 980058

PROPERTY OWNER:
DEPARTMENT OF NATURAL RESOURCES
PO BOX 47014
OLYMPIA, WA 98504

PROJECT CONSULTANT:
RYKA LAND SERVICES
7525 SE 24TH ST., SUITE 100
MERCER ISLAND, WA 98040
PHONE: (206) 523-1941

TOWER OWNER:
US CELLULAR
8410 W BRYN MAWR AVE, SUITE 700
CHICAGO, IL 60631
CONTACT: HEATHER SAXTON
EMAIL: hsaxton@pyramidns.com

PROJECT ENGINEER:
CLEARWATER ENGINEERING, LLC
14508 NE 180TH STREET
WOODINVILLE, WA 98072
CONTACT: MARK OLSON, P.E.
EMAIL: mark@cw-engr.com

SITE ACQUISITION:
RYKA LAND SERVICES
7525 SE 24TH ST., SUITE 100
MERCER ISLAND, WA 98040
CONTACT: JESSE BICKEL
PHONE: (206) 523-1941
EMAIL: JBickel@RykaLandServices.com

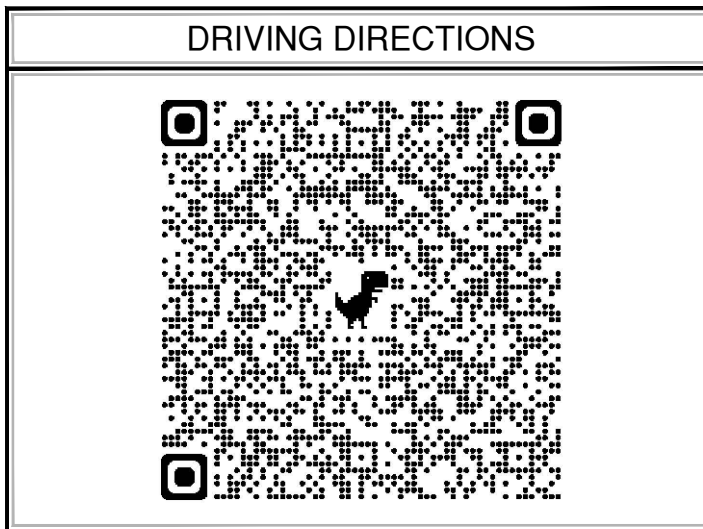
CONSTRUCTION MANAGER:
VERIZON WIRELESS
CONTACT: GREG BAKER
PHONE: (417) 824-1076
EMAIL: greg.baker@verizonwireless.com

PERMITTING:
RYKA LAND SERVICES
7525 SE 24TH ST., SUITE 100
MERCER ISLAND, WA 98040
CONTACT: JESSICA PIERCE
PHONE: (206) 523-1941
EMAIL: JPierce@RykaLandServices.com

100% CONSTRUCTION DRAWING SET

DRAWING INDEX

T-1	TITLE SHEET
G-1	GENERAL NOTES
A-1	PARCEL PLAN
A-2	SITE PLAN
A-2.1	ENLARGED SITE PLAN
A-3	PROPOSED EQUIPMENT PLAN
A-4	PROPOSED NORTH ELEVATION
A-5	PROPOSED ANTENNA CONFIGURATION & SCHEDULE
A-5.1	PROPOSED RF PLUMBING DIAGRAM
A-5.2	PROPOSED MICROWAVE DESIGN SHEET
A-6	ANTENNA MOUNTING DETAILS
A-6.1	ANTENNAS DETAILS
A-6.2	ANTENNAS DETAILS
A-6.3	EQUIPMENT DETAILS
A-7	CONSTRUCTION DETAILS
A-7.1	CONSTRUCTION DETAILS
A-7.2	CONSTRUCTION DETAILS
A-8	GENERATOR DETAILS
E-1	ONE-LINE DIAGRAM, PANEL SCHEDULE & GENERAL NOTES
E-2	UTILITY ROUTING PLAN
E-3	SCHEMATIC GROUNDING PLANS
E-4	GROUNDING DETAILS
E-5	UTILITY TRENCH & GROUNDING DETAILS



SITE INFORMATION

CODE INFORMATION:
ZONING CLASSIFICATION: OPEN SPACE
BUILDING CODE: 2021 IBC
CONSTRUCTION TYPE: IIB
OCCUPANCY: U
JURISDICTION: KLIKITAT COUNTY
PROPOSED BUILDING USE: UNMANNED TELECOMMUNICATIONS FACILITY

SITE LOCATION:
LATITUDE: 45° 42' 42.85" N (45.711903°)
LONGITUDE: 121° 06' 55.12" W (-121.115311°)
TOP OF STRUCTURE (AGL): ±120' (TOP OF LATTICE TOWER)
BASE OF STRUCTURE (NAVD 88): ±3,145.1' (BASE OF LATTICE TOWER)

PARCEL NUMBER: 0313250002100
PARCEL AREA: 10.0 ACRES (±435,600.0 SQ. FT.)

GENERAL INFORMATION:
1. PARKING REQUIREMENTS ARE UNCHANGED
2. TRAFFIC IS UNAFFECTED
3. SIGNAGE IS PROPOSED

PROJECT DESCRIPTION

TOWER WORK: (LATTICE TOWER)

ADD:

- (3) ANTENNA SECTOR MOUNTS (1 PER SECTOR)
- (6) PANEL ANTENNAS (2 PER SECTOR)
- (3) AIR 6419 (L-SUB6-5G) ANTENNA/RADIO (1 PER SECTOR)
- (6) REMOTE RADIO UNITS
- (1) 3'Ø MICROWAVE DISH ANTENNA
- (1) MICROWAVE LEG MOUNT
- (1) OVP12 SURGE SUPPRESSION UNIT
- (2) 6X12 HYBRID CABLE

EQUIPMENT GROUND WORK:

ADD:

- (1) 12'-0"x20'-0" (240 SQ FT) VERIZON WIRELESS EQUIPMENT LEASE AREA
- (1) 4'-0"x11'-0" (44 SQ FT) CONCRETE EQUIPMENT SLAB
- (1) 4'-0"x9'-0" (36 SQ FT) CONCRETE GENERATOR SLAB
- (1) POWER/RF CABINET (AIO)
- (2) FUTURE CABINETS
- (1) GPS ANTENNA
- (1) UTILITY H-FRAME
- (1) ICE BRIDGE
- (1) OVP12 SURGE SUPPRESSION UNIT IN CABINET
- (1) 30KW DIESEL GENERATOR W/ INTEGRATED 190 GALLON DIESEL FUEL TANK
- 6' CHAIN LINK FENCE W/ BROWN PRIVACY SLATS (MATCH EXISTING)
- 12-FOOT CHAIN LINK FENCE DBL GATE W/ BROWN PRIVACY SLATS (MATCH EXISTING)

LEGAL DESCRIPTION

ABBREVIATED PER ASSESSOR RECORDS.
N2N2SESE; 25-3-13 PILT

DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALES SHOWN ON PLANS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE ENGINEER AND CARRIER OF ANY ERRORS OR OMISSIONS.

APPROVAL/SIGN OFF

CONSULTANT GROUP SIGN OFF	DATE	SIGNATURE
CONSTRUCTION MANAGER		
LANDLORD'S REPRESENTATIVE		
PROJECT MANAGER		
SITE ACQUISITION		
PERMITTING		
ZONING		

REVIEWERS SHALL CLEARLY PLACE INITIALS ADJACENT TO EACH REDLINE NOTE AS DRAWINGS ARE BEING REVIEWED

LIMITS OF LIABILITY:

RYKA LAND SERVICES HAS MADE EVERY EFFORT TO CREATE COMPLETE AND ACCURATE CONTRACT DOCUMENTS WITH THE BEST INFORMATION AVAILABLE AT THE TIME OF THEIR COMPLETION. CONTRACTORS ARE CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE CONTRACT DOCUMENTS MAY OCCUR AND SHALL NOT EXCUSE THE CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THE DOCUMENTS. REFERENCE ADMINISTRATIVE REQUIREMENTS.

CONTRACT DOCUMENTS:

- 1. THE CONTRACT DOCUMENTS INCLUDE THE AGENCY APPROVED PROJECT SPECIFICATIONS, PLANS, AND THEIR LATEST REVISIONS, ADDENDA, AND CLARIFICATIONS. THE CONTRACT DOCUMENTS MAY ALSO INCLUDE NETWORK CARRIER STANDARDS FOR INSTALLATION OF TELECOMMUNICATIONS EQUIPMENT.
2. THE CONTRACTOR SHALL KEEP A MINIMUM OF ONE SET OF CONTRACT DOCUMENTS ON FILE IN THE PROJECT OFFICE AT THE JOB SITE. COPIES OF THE PROJECT DOCUMENTS USED BY SITE STAFF SHALL BE UP TO DATE WITH THE PROJECT OFFICE COPY.
3. THE CONTRACTOR SHALL NOTIFY THE PROJECT TEAM OF ANY ERRORS, OMISSIONS, AND INCONSISTENCIES FOUND IN THE CONTRACT DOCUMENTS. THE NOTIFICATION SHALL BE GIVEN BOTH VERBALLY AND IN WRITING WITHIN 24 HOURS OF DISCOVERY.
4. IF AN ERROR OR OMISSION IN THE PROJECT DOCUMENTS REQUIRES RECTIFICATION, THE CONTRACTOR SHALL SUBMIT A PROPOSAL TO THE PROJECT TEAM TO RECTIFY THE ISSUE. THE PROPOSAL MUST BE APPROVED PRIOR TO WORK.
5. THE CONTRACT DRAWINGS ARE PREPARED TO SCALE WITH THE BEST KNOWLEDGE OF THE SITE GIVEN TO RYKA CONSULTING. WHERE DIMENSIONS ARE NOT SHOWN IN THE DRAWINGS, THE CONTRACTOR SHOULD CLARIFY WITH THE PROJECT TEAM WHEN THE INFORMATION IS CRITICAL TO PROPER INSTALLATION.
6. THE CONTRACTOR SHALL DOCUMENT ALL CHANGES AND SUBSTITUTIONS ON THE PROJECT OFFICE COPY OF THE CONTRACT DOCUMENTS.
7. WHEN FABRICATION OF STRUCTURAL ITEMS ARE REQUIRED, IT MAY BE NECESSARY TO SUBMIT SHOP DRAWINGS FOR REVIEW BY RYKA CONSULTING. SEE STRUCTURAL NOTES.
8. DEFERRED SUBMITTALS ARE REQUIRED FOR MATERIALS TO BE PROVIDED BY THE CONTRACTOR. WHERE MATERIALS IN THE PLANS ARE DESIGNATED AS PROVIDED BY CONTRACTOR, THE CONTRACTOR SHALL SUBMIT THE PREFERRED MATERIAL TO THE PROJECT TEAM FOR REVIEW AND APPROVAL PRIOR TO WORK.

ADMINISTRATIVE REQUIREMENTS:

- 1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED (INCLUDING FEES) TO COMPLETE THE WORK DESCRIBED BY THE CONSTRUCTION DOCUMENTS.
2. PRIOR TO BIDDING, THE CONTRACTOR IS RESPONSIBLE FOR REVIEW OF THE PROJECT SITE AND CONTRACT DOCUMENTS TO UNDERSTAND THE DESIGN AND CONDITIONS AFFECTING THE WORK TO BE PERFORMED. ANY ERRORS, OMISSIONS, AND DISCREPANCIES MUST BE SUBMITTED TO THE PROJECT TEAM VERBALLY AND IN WRITING.
3. THE CONTRACTOR SHALL PROVIDE A WARRANTY FOR WORK FOR A PERIOD OF ONE YEAR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REMEDY ALL FAULTY, INFERIOR, AND/OR IMPROPER MATERIALS, DAMAGED GOODS, AND/OR FAULTY WORKMANSHIP. ALL ROOFING AND WATERPROOFING MUST BE WARRANTED FOR A PERIOD OF TWO YEARS. THE PERIOD BEGINS AT SUBSTANTIAL COMPLETION OF THE PROJECT.
4. THE CONTRACTOR SHALL PROVIDE A COPY OF LICENSE AND INSURANCE TO THE TELECOMMUNICATIONS CARRIER.

SITE SAFETY:

- 1. THE CONTRACTOR SHALL PROVIDE OSHA COMPLIANT PROTECTION FOR THE SAFETY OF THE SITE STAFF AT ALL TIMES DURING THE CONSTRUCTION OF THE PROJECT.
2. CONTRACTOR SHALL KEEP GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION. SITE SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM DIRT AND DEBRIS. SURFACES SHALL BE CLEANED OF GREASE, PAINT, OR OTHER MATERIALS NOT SPECIFIED IN THE CONSTRUCTION DOCUMENTS.
3. THE CONTRACTOR IS TO PROVIDE PROTECTION FOR ADJOINING PROPERTIES FROM PHYSICAL HARM, NOISE, DUST, DIRT, AND FIRE AS REQUIRED BY THE GOVERNING AGENCIES. THE CONTRACTOR IS RESPONSIBLE FOR REPAIR OF ANY DAMAGE.
4. THE CONTRACTOR IS RESPONSIBLE FOR THE SECURITY OF THE PROJECT SITE AREA.
5. WHERE WORK REQUIRES OPEN HAZARDS TO SITE STAFF, THE HAZARD SHALL BE TEMPORARILY MITIGATED TO OSHA STANDARD UNTIL THE HAZARD IS CLOSED.
6. SEE STRUCTURAL NOTES.

UTILITY REQUIREMENTS:

- 1. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH UTILITY AGENCIES PRIOR TO WORK WITH UTILITIES.
2. CONTRACTOR TO LOCATE ALL UTILITIES PRIOR TO WORK.
3. CONTRACTOR TO PROTECT, REPLACE AND/OR REROUTE ANY EXISTING UTILITIES ENCOUNTERED DURING THE COURSE OF WORK.

SPECIAL CONSIDERATIONS FOR WEATHERPROOFING:

- 1. ALL PENETRATIONS TO EXISTING STRUCTURES MUST BE SEALED WITH APPROVED WEATHERPROOFING. IF WEATHERPROOFING IS OMITTED, CONTACT THE PROJECT TEAM FOR CLARIFICATION OR PROVIDE A WEATHERPROOFING PROPOSAL FOR APPROVAL.
2. CONTRACTOR SHALL COORDINATE WITH OWNER AND THE EXISTING ROOFING CONTRACTOR OF RECORD FOR ANY AUGMENTATION TO THE ROOF MEMBRANE, AND HAVING THE WORK GUARANTEED UNDER THE ROOFING CONTRACTOR'S EXISTING WARRANTY.

WORK REQUIREMENTS:

- 1. ALL WORK MUST BE PERFORMED DURING THE OWNERS PREFERRED HOURS.
2. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
3. ALL WORK PERFORMED ON THE PROJECT SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS. SEE STRUCTURAL NOTES.
4. IF INSPECTION OF WORK IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE INSPECTION ENTITY 24 HOURS IN ADVANCE OF THE WORK TO BE PERFORMED.
5. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH UTILITY AGENCIES PRIOR TO WORK WITH UTILITIES. REFERENCE UTILITIES SECTION.
6. THE CONTRACTOR SHALL COORDINATE ON-SITE STORAGE WITH OWNER IN ADVANCE OF WORK. PERMITS MAY BE REQUIRED FOR STORAGE ON PUBLIC RIGHT OF WAY.
7. ALL NEW CONSTRUCTION SHALL MATCH EXISTING CONSTRUCTION IN FORM, TEXTURE, FINISH, AND IN MATERIALS EXCEPT AS NOTED IN THE CONSTRUCTION DOCUMENTS.
8. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO PROTECT EXISTING WORK FROM DAMAGE DURING THE COURSE OF WORK FOR THIS PROJECT.
9. THE CONTRACTOR SHALL PROVIDE WORK WHICH IS LEVEL, PLUMB, AND WITHIN TOLERANCES SPECIFIED BY CODES AND STANDARDS INCLUDED IN THE STRUCTURAL NOTES.
10. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO MANUFACTURER'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
11. ANY SUBSTITUTIONS OF MATERIALS MUST BE APPROVED BY THE PROJECT TEAM IN WRITING.
12. THE CONTRACTOR SHALL SUPPLY ALL MATERIALS INCIDENTAL TO THE WORK DESCRIBED BY THE CONTRACT DOCUMENTS.
13. THE CONTRACTOR MUST RESTORE ALL PORTIONS OF THE PROJECT SITE TO IT'S PRE-WORK CONDITION. WHERE THE WORK PERFORMED DOES NOT ALLOW FOR PRE-WORK RESTORATION, WORK AREAS MUST BE REPAIRED OR REPLACED TO MATCH EXISTING FINISH AND SITE GRADING.
14. THE CONTRACTOR IS RESPONSIBLE FOR ALL DISPOSAL OF DEBRIS AND ITEMS WHICH ARE SPECIFIED TO BE REMOVED IN THE COURSE OF WORK.

CAST-IN PLACE CONCRETE:

- 1. ALL CONCRETE DESIGN DESCRIBED BY THIS SET OF DRAWINGS IS BASED ON ACI 318
2. ALL STRUCTURAL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI. UNLESS SPECIFIED OTHERWISE.
3. EACH CONCRETE MIX DESIGN SHALL HAVE A CYLINDER TEST HISTORY OF 60 DAYS MINIMUM, TESTED IN ACCORDANCE WITH ASTM C39, TESTED BY AN ACI CERTIFIED STRENGTH TESTING TECHNICIAN, AND THE STRENGTH STATISTICALLY DETERMINED IN ACCORDANCE WITH ACI 318. EACH MIX DESIGN USED ON SITE SHALL BE SUBMITTED TO, AND RECEIVED BY THE PROJECT TEAM BEFORE THE CONCRETE IS PLACED ON SITE.
4. RAW MATERIALS, MANUFACTURE, AND DELIVERY TO THE FORMWORK SHALL BE IN ACCORDANCE WITH ASTM C94 AND ACI 318.
5. EMBEDDED ITEMS ARE TO BE SECURELY FASTENED SO THAT THEY DO NOT MOVE DURING PLACEMENT OF THE CONCRETE. REFERENCE THE REINFORCING STEEL SECTION.
6. TWO CYLINDERS SHALL BE TAKEN FOR EACH LOAD DELIVERED TO THE FORMWORK. SAMPLES ARE TO BE TAKEN FROM THE CONCRETE AS IT IS PLACED IN THE FORMWORK IN ACCORDANCE WITH ASTM C172. CYLINDERS ARE TESTED PER ASTM C39 AND TESTED BY AN ACI CERTIFIED CSTT. CONCRETE SAMPLES ARE TO BE TESTED FOR AIR CONTENT AND WATER CEMENT RATIO. ALL TEST RESULTS ARE SUBMITTED TO THE PROJECT TEAM WITHIN ONE MONTH OF PLACING THE CONCRETE ON SITE.
7. WHEN AMBIENT TEMPERATURES FALL BELOW 55 DEGREES FAHRENHEIT, THE CONTRACTOR SHALL FOLLOW GUIDELINES DESCRIBED IN ACI 306. WHEN AMBIENT TEMPERATURES RISE ABOVE 90 DEGREES FAHRENHEIT, THE CONTRACTOR SHALL FOLLOW GUIDELINES DESCRIBED IN ACI 305. THE CONCRETE SHALL BE PROTECTED FROM FREEZING OR FROM EXCESSIVE HEAT WITH TENTS OR BLANKETS TO PROVIDE FOR HEAT OR MOISTURE LOSS.
8. ALL CONCRETE SHALL BE PLACED AS CLOSE TO PRACTICAL TO THE FINAL DESTINATION IN THE FORM. CONCRETE SHALL NOT BE PLACED FROM A HEIGHT GREATER THAN 6 FEET FROM THE POINT OF DISCHARGE.
9. VIBRATION SHALL BE USED TO CONSOLIDATE CONVENTIONAL CONCRETE. EXTERNAL STINGER VIBRATORS SHALL BE INSERTED VERTICALLY INTO FORMS EVERY 36 INCHES MAXIMUM AND FOR EACH LIFT. STINGER VIBRATORS SHALL BE INSERTED TO A VERTICAL DEPTH OF 12 INCHES INTO PREVIOUS LIFTS TO ENSURE CONSOLIDATION. FOLLOW GUIDELINES USED IN ACI 309R.
10. REPAIRS FOR MINOR DEFECTS MAY BE ADMINISTERED BY AN EXPERIENCED CRAFTSMAN WITHOUT AN APPROVED PROCEDURE. A MINOR DEFECT INCLUDES BUG HOLES, HONEYCOMBING, CHIPS, AND SPALLS THAT DO NOT EXCEED 1/2 INCH OF DEPTH INTO THE FACE OF THE CONCRETE. MAJOR REPAIRS EXTENDING BEYOND 1/2 INCH OF DEPTH AND UP TO THE REINFORCING MAY BE REPAIRED WITH AN APPROVED REPAIR PROCEDURE. REPAIR PROCEDURES MAY BE SUBMITTED TO THE PROJECT TEAM FOR APPROVAL IN ADVANCE OF FIELD WORK. DAMAGE EXTENDING BEYOND STEEL REINFORCING REQUIRES A RETROFIT DESIGN OR IS REJECTED.
11. SEE ARCHITECTURAL NOTES FOR CONCRETE FINISH REQUIREMENTS

EXISTING STRUCTURES:

- 1. THE EXISTING FRAMING IS REPRODUCED FROM THE LATEST INFORMATION PROVIDED. SOME FRAMING AND MATERIALS ENCOUNTERED AT THE TIME OF CONSTRUCTION MAY VARY FROM THAT SHOWN IN THE PLANS. IF THE PLAN CONDITION VARIES FROM THE AS-BUILT CONDITION, THE CONTRACTOR SHOULD CONSULT THE PROJECT TEAM FOR A REVISED DETAIL OR DIRECTION TO PROCEED.

CONCRETE SLABS ON GRADE:

- 1. SLAB-ON-GRADE CONSTRUCTION SHALL BE SUPPORTED ON A 6 INCH LAYER OF CLEAN 3/4 INCH MINUS SUBGRADE COMPACTED TO A DENSITY OF NO LESS THAN 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557). SUBGRADE SHALL BE SUPPORTED ON UNDISTURBED NATIVE SOIL OR PROPERLY PLACED AND COMPACTED STRUCTURAL FILL.
2. INTERIOR SLABS-ON-GRADE SHALL BE CAST OVER A 4 MIL VAPOR BARRIER.
3. PROVIDE CONTROL JOINTS IN ALL SLABS ON GRADE. JOINTS ARE TO BE INSTALLED AT 14 TO 16 FEET ON CENTER EACH WAY MAXIMUM UNLESS SHOWN OTHERWISE ON THE DRAWINGS. ALL SAW CUT JOINTS IN CONCRETE SLABS ARE TO BE MADE WITH AN EARLY CUT SAW AS SOON AS POSSIBLE AFTER POURING BUT NO LATER THAN ONE HOUR AFTER FINISHING.
4. PROVIDE ISOLATION JOINTS AROUND ALL COLUMNS/SPREAD FOOTINGS. JOINTS SHALL BE FORMED BY INSERTING PREFORMED JOINT FILLER FOR THE FULL DEPTH OF THE SLAB.
5. PROTECT CONCRETE FROM DAMAGE OR REDUCED STRENGTH DUE TO COLD OR HOT WEATHER IN ACCORDANCE WITH ACI 305 AND 306. CONTRACTOR SHALL TAKE SPECIAL CURING PRECAUTIONS TO MINIMIZE SHRINKAGE CRACKING OF CONCRETE SLABS.
6. THE CONTRACTOR SHALL TAKE CARE THAT HEAVY EQUIPMENT AND AREAS USED FOR STAGING DO NOT AND DAMAGE SLABS ON GRADE. DAMAGED SLABS ON SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL EXPENSE TO THE OWNER.
7. CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2,500 PSI. UNLESS SPECIFIED OTHERWISE.

CONCRETE OR MASONRY ANCHORAGE:

- 1. EXPANSION BOLTS INTO CONCRETE SHALL BE "KWIK BOLT TZ" AS MANUFACTURED BY THE HILTI CORP., INSTALLED IN STRICT ACCORDANCE WITH ICC-ES REPORT ESR-1917. SPECIAL INSPECTION IS REQUIRED. EXPANSION ANCHORS EXPOSED TO WEATHER SHALL BE STAINLESS STEEL.

REINFORCING STEEL:

- 1. ALL DETAILING, FABRICATION, AND PLACEMENT OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE ACI MANUAL OF CONCRETE PRACTICE.
2. REINFORCING BARS SHALL BE DEFORMED AND CONFORM TO ASTM A615 OR A706, GRADE 60. REINFORCING TIE WIRE MAY BE GRADE 40.
3. REINFORCING STEEL SPLICES SHALL BE 40 BAR DIAMETERS OR TWO TRANSVERSE WIRE SPACINGS FOR WIRE MATS.
4. MINIMUM CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE IN ACCORDANCE WITH ACI 318.
5. NO.5 OR LARGER REINFORCING BARS SHALL NOT BE RE-BENT WITHOUT APPROVAL BY THE STRUCTURAL ENGINEER.
6. WELDING OF REBAR IS NOT ALLOWED WITHIN THE MIDDLE THIRD OF THE BAR LENGTH. WELDING OF REBAR IS CONDUCTED IN ACCORDANCE WITH AWS D1.4. USE ONLY ASTM A706 REINFORCING.
7. WIRE REINFORCING CONFORMS TO ASTM A82 OR A185.
8. CONCRETE COVER FOR REINFORCING STEEL CONFORMS TO ACI 318.

FIBERGLASS REINFORCED POLYMER/PLASTIC (FRP):

- 1. FIBERGLASS REINFORCED POLYMER (FRP) COMPOSITE PRODUCTS MUST HAVE A FLAME SPREAD RATING OF 25 OR LESS AND SMOKE DENSITY UNDER 450 AS CHARACTERIZED BY THE ASTM E-84 IN ACCORDANCE WITH IBC 2613.5.
2. FIBER REINFORCED PLASTIC (FRP) PRODUCTS PROPOSED FOR USE SHALL HAVE A CURRENT EVALUATION REPORT.
3. ALL FRP PRODUCTS USED MUST BE LABELED WITH THE NAME OF THE PRODUCT MANUFACTURER.
4. SUBSTITUTION OF ANY COMPONENT OR MODIFICATION OF SYSTEM SHALL NE MADE ONLY WHEN APPROVED BY THE ARCHITECT OR DESIGN ENGINEER.
5. INSTALLATION MUST COMPLY WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS FOR WORK.

Know what's below. CALL before you dig. DIG ALERT CALL AT LEAST TWO WORKING DAYS BEFORE YOU DIG SAFETY PRECAUTION SHALL BE IMPLEMENTED BY CONTRACTOR(S) AT ALL TRENCHING IN ACCORDANCE WITH CURRENT OSHA STANDARDS ELECTRIC - RED SEWER - GREEN GAS/OIL - YELLOW SURVEY - PINK TEL/CATV - ORANGE PROPOSED - WHITE WATER - BLUE

LEGEND:

- SUBJECT BOUNDARY LINE
----- ADJACENT BOUNDARY LINE
----- SECTIONAL BREAKDOWN LINE
----- RIGHT-OF-WAY CENTERLINE
----- RIGHT-OF-WAY LINE
----- COAX-----COAX-----COAX----- COAX CABLE LINE
----- FIBER----- FIBER----- FIBER OPTIC CABLE LINE
----- OHP----- OHP----- OVERHEAD POWER LINE
----- OHT----- OHT----- OVERHEAD TELEPHONE LINE
----- UGP----- UGP----- UGP----- BURIED POWER LINE
----- GAS----- GAS----- GAS----- BURIED GAS LINE
----- UGT----- UGT----- UGT----- BURIED TELEPHONE LINE
----- W----- W----- W----- BURIED WATER LINE
----- SS----- SS----- SS----- BURIED SANITARY SEWER
----- SD----- SD----- SD----- BURIED STORM DRAIN
----- DITCH LINE/FLOW LINE
----- VEGETATION LINE
----- X----- X----- X----- CHAIN LINK FENCE
----- WOOD FENCE
----- BARBED WIRE/WIRE FENCE

- TRANSFORMER
LIGHT STANDARD
POWER VAULT
UTILITY BOX
UTILITY POLE
POLE GUY WIRE
GAS VALVE
GAS METER
TELEPHONE VAULT
TELEPHONE RISER
FIRE HYDRANT
GATE VALVE
WATER METER
FIRE STAND PIPE
CATCH BASIN, TYPE I
CATCH BASIN, TYPE II
SIGN
BOLLARD
MAIL BOX
SPOT ELEVATION

- REVISION
GRID REFERENCE
DETAIL REFERENCE
ELEVATION REFERENCE
SECTION REFERENCE

ABBREVIATIONS:

Table with 4 columns: Abbreviation, Description, Abbreviation, Description. Includes terms like A/C (AIR CONDITIONING), AG (ABOVE GROUND LEVEL), MTL (METAL), MFR (MANUFACTURE), MGR (MANAGER), MIN (MINIMUM), MISC (MISCELLANEOUS), etc.



RYKA LAND SERVICES LAND SURVEYING ENGINEERING ARCHITECTURE DRONE INSPECTION REAL ESTATE SERVICES

TOWER OWNER DRAWINGS
CARRIER DRAWINGS
STACKER BUTTE ALT 1
UNASSIGNED ADDRESS
KLICKITAT, WA 98635
KLICKITAT COUNTY

REVISIONS table with columns: REV., DATE, DESCRIPTION, BY. Includes entries for 12/06/24 and 06/24/25.

Professional Engineer seal for Mark Wesley Olson, State of Washington, No. 32204, Registered Professional Engineer, 9-11-2025.

TITLE GENERAL NOTES

SHEET G-1

PROPRIETARY INFORMATION: THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO VERIZON WIRELESS SERVICES IS STRICTLY PROHIBITED.



LAND SURVEYING
ENGINEERING
ARCHITECTURE
DRONE INSPECTION
REAL ESTATE SERVICES



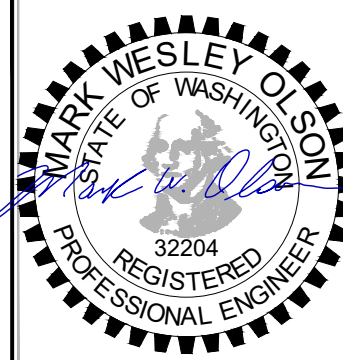
- TOWER OWNER DRAWINGS
- CARRIER DRAWINGS

STACKER BUTTE ALT 1

UNASSIGNED ADDRESS
KLUCKITAT, WA 98635
KLUCKITAT COUNTY

REVISIONS

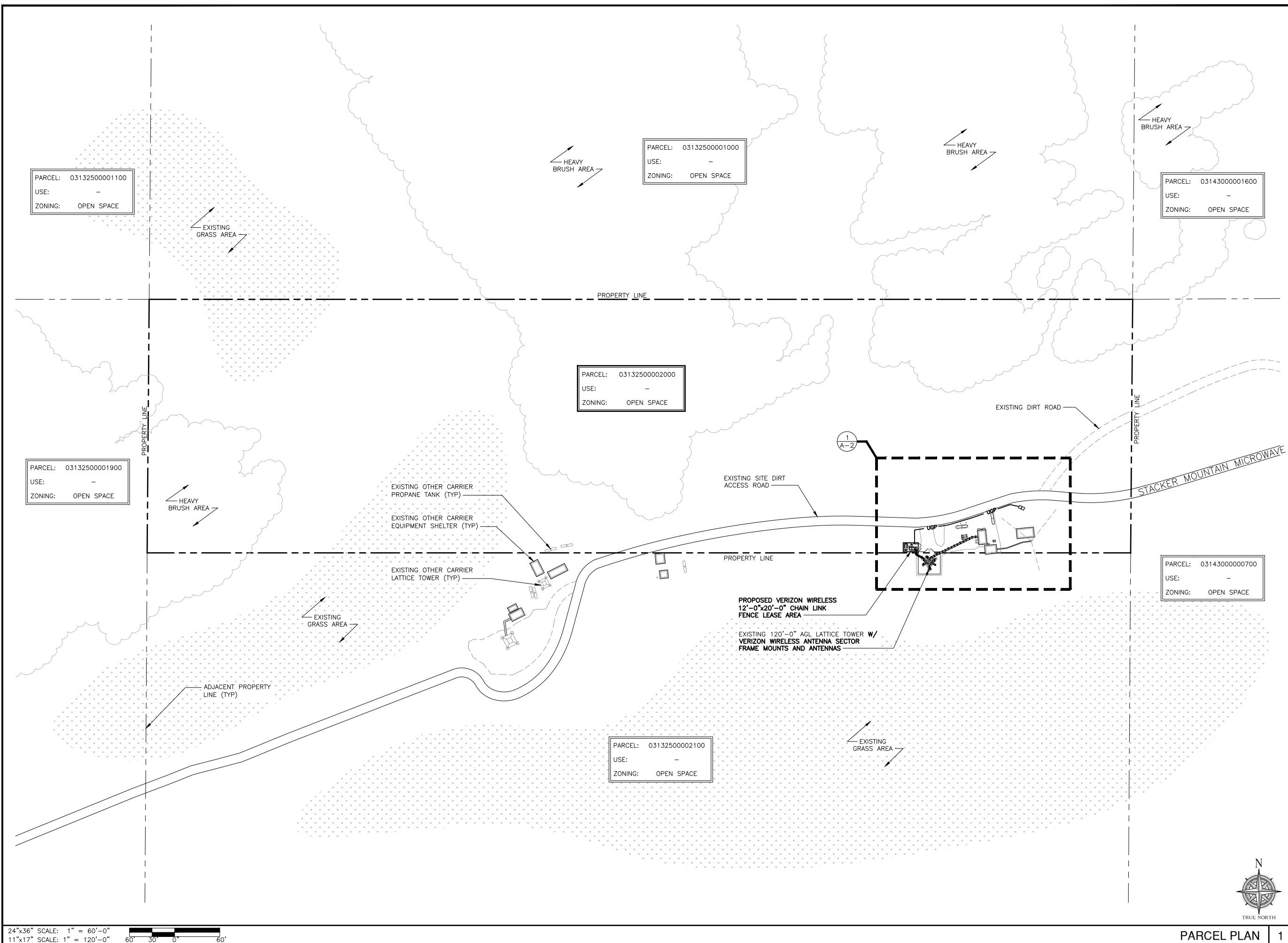
REV.	DATE	DESCRIPTION	APPROVED	
			RD	MWO
A	12/06/24	ISSUED FOR 90% CD REVIEW	RD	
0	06/24/25	ISSUED FOR 100% CD SUBMITTAL	RD	



TITLE
PARCEL PLAN

SHEET
A-1

PROPRIETARY INFORMATION:
THE INFORMATION CONTAINED IN THIS SET OF
CONSTRUCTION DOCUMENTS IS PROPRIETARY BY
NATURE. ANY USE OR DISCLOSURE OTHER
THAN THAT WHICH RELATES TO VERIZON
WIRELESS SERVICES IS STRICTLY PROHIBITED.

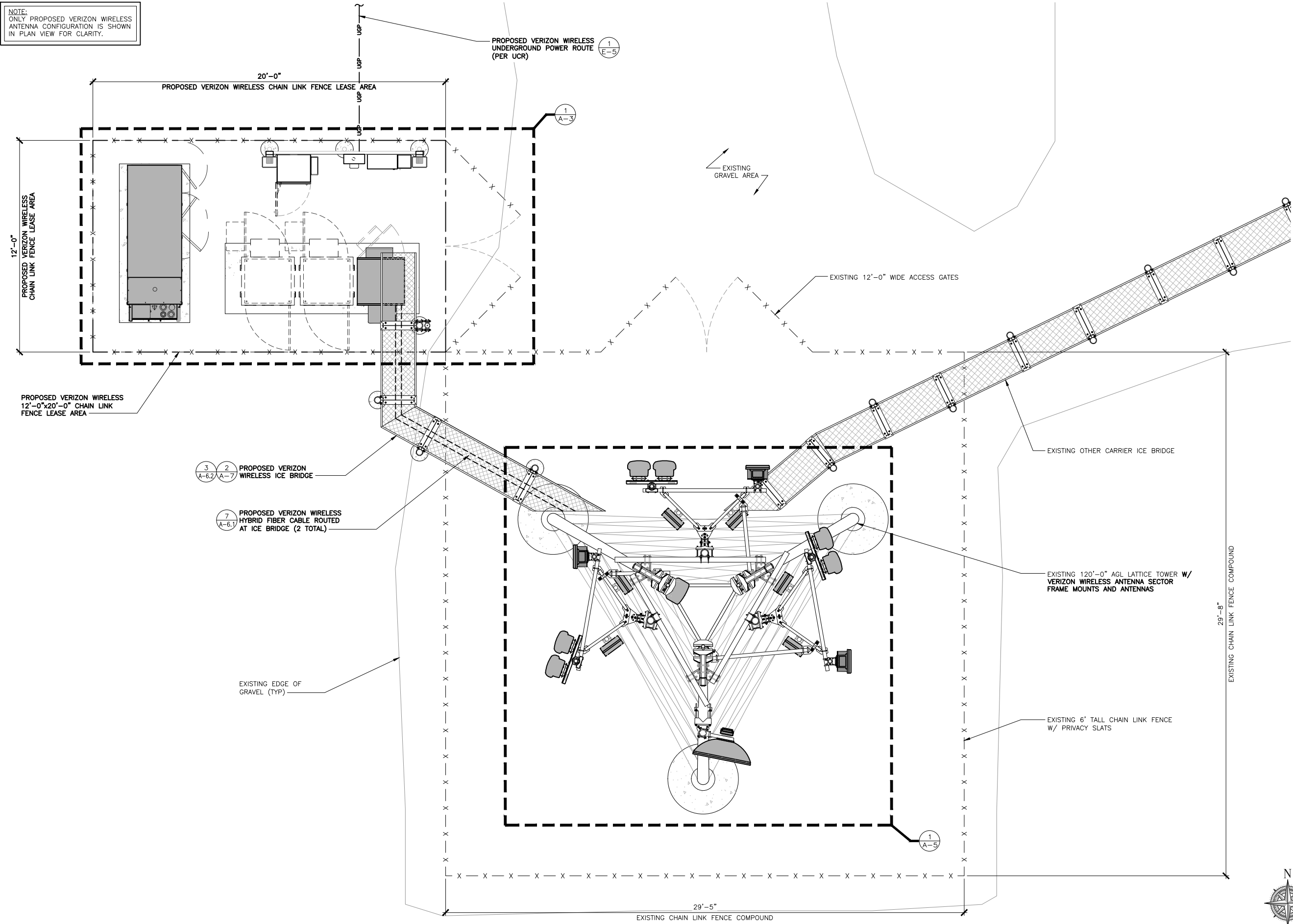


24"x36" SCALE: 1" = 60'-0"
11"x17" SCALE: 1" = 120'-0"



PARCEL PLAN 1

NOTE:
ONLY PROPOSED VERIZON WIRELESS
ANTENNA CONFIGURATION IS SHOWN
IN PLAN VIEW FOR CLARITY.



LAND SURVEYING
ENGINEERING
ARCHITECTURE
DRONE INSPECTION
REAL ESTATE SERVICES



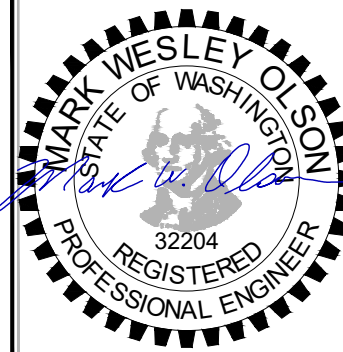
TOWER OWNER DRAWINGS
 CARRIER DRAWINGS

STACKER BUTTE ALT 1

UNASSIGNED ADDRESS
KLIICKITAT, WA 98635
KLIICKITAT COUNTY

REVISIONS

REV.	DATE	DESCRIPTION	BY
A	12/06/24	ISSUED FOR 90% CD REVIEW	RLD
0	06/24/25	ISSUED FOR 100% CD SUBMITTAL	RLD



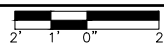
9-11-2025

TITLE
ENLARGED SITE PLAN

SHEET
A-2.1

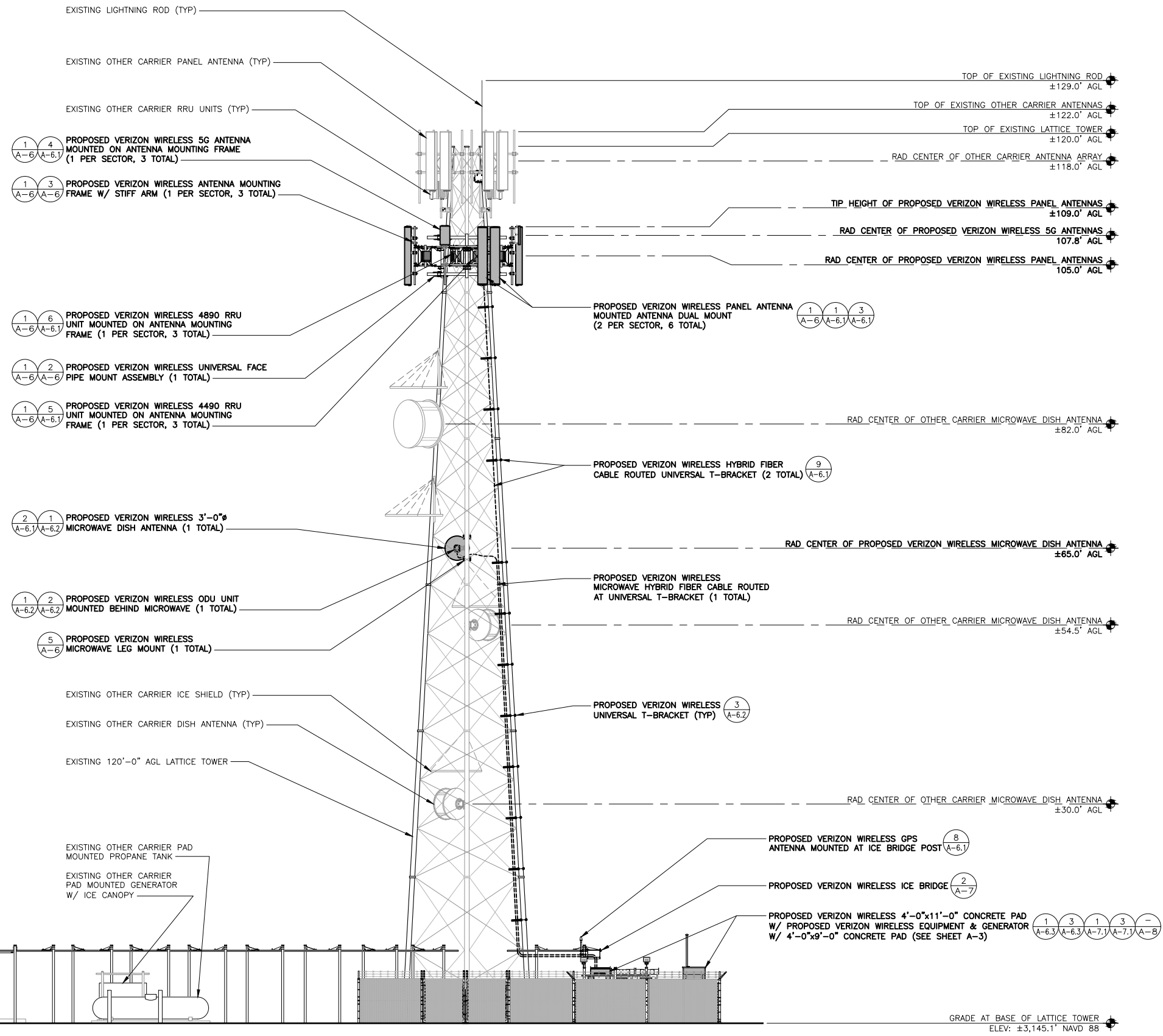
PROPRIETARY INFORMATION:
THE INFORMATION CONTAINED IN THIS SET OF
CONSTRUCTION DOCUMENTS IS PROPRIETARY BY
NATURE. ANY USE OR DISCLOSURE OTHER
THAN THAT WHICH RELATES TO VERIZON
WIRELESS SERVICES IS STRICTLY PROHIBITED.

24"x36" SCALE: 3/8" = 1'-0"
11"x17" SCALE: 3/16" = 1'-0"



ENLARGED SITE PLAN 1

NOTE:
 1. VERIFICATION THAT THE ANTENNA MOUNTS CAN SUPPORT ALL PROPOSED LOADING SHALL BE PERFORMED BY A REGISTERED STRUCTURAL ENGINEER.
 2. STRUCTURAL ANALYSIS AND DESIGN TO BE PERFORMED PRIOR TO FCD COMPLETION.



LAND SURVEYING
 ENGINEERING
 ARCHITECTURE
 DRONE INSPECTION
 REAL ESTATE SERVICES

- TOWER OWNER DRAWINGS
- CARRIER DRAWINGS

STACKER BUTTE ALT 1

UNASSIGNED ADDRESS
 KLICKITAT, WA 98635
 KLICKITAT COUNTY

REVISIONS				
REV.	DATE	DESCRIPTION	BY	
A	12/06/24	ISSUED FOR 90% CD REVIEW	RLD	
0	06/24/25	ISSUED FOR 100% CD SUBMITTAL	RLD	



TITLE
 PROPOSED NORTH ELEVATION

SHEET
A-4

PROPRIETARY INFORMATION:
 THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO VERIZON WIRELESS SERVICES IS STRICTLY PROHIBITED.

24"x36" SCALE: 1/8" = 1'-0"
 11"x17" SCALE: 1/16" = 1'-0"

PROPOSED NORTH ELEVATION 1

PROPOSED ANTENNA SCHEDULE								RFDS, DATED 04/17/25				
SECTOR 1	TECHNOLOGY	AZIMUTH	TIP HEIGHT	RAD CENTER	ANTENNA VENDOR	ANTENNA MODEL	MECH TILT	RRU VENDOR	RRU MODEL	RRU LOCATION	FEEDER TYPE	FEEDER LENGTH
2L	700, 850, 1900, & AWS	0°	±109.0'	105.0'	JMA WIRELESS	MX06FIT845-02	0°	ERICSSON	4490 & 4890	TOP	(2) 6x12 HYBRID	±130'
2R	700, 850, 1900, & AWS	0°	±109.0'	105.0'	JMA WIRELESS	MX06FIT845-02	0°		INTEGRATED			
4	5G	0°	±109.0'	107.8'	ERICSSON	AIR6419	0°		INTEGRATED			
SECTOR 2	TECHNOLOGY	AZIMUTH	TIP HEIGHT	RAD CENTER	ANTENNA VENDOR	ANTENNA MODEL	MECH TILT	RRU VENDOR	RRU MODEL	RRU LOCATION	FEEDER TYPE	FEEDER LENGTH
2L	700, 850, 1900, & AWS	70°	±109.0'	105.0'	JMA WIRELESS	MX06FIT845-02	0°	ERICSSON	4490 & 4890	TOP	-	-
2R	700, 850, 1900, & AWS	70°	±109.0'	105.0'	JMA WIRELESS	MX06FIT845-02	0°		INTEGRATED			
4	5G	90°	±109.0'	107.8'	ERICSSON	AIR6419	0°		INTEGRATED			
SECTOR 3	TECHNOLOGY	AZIMUTH	TIP HEIGHT	RAD CENTER	ANTENNA VENDOR	ANTENNA MODEL	MECH TILT	RRU VENDOR	RRU MODEL	RRU LOCATION	FEEDER TYPE	FEEDER LENGTH
2L	700, 850, 1900, & AWS	290°	±109.0'	105.0'	JMA WIRELESS	MX06FIT845-02	0°	ERICSSON	4490 & 4890	TOP	-	-
2R	700, 850, 1900, & AWS	290°	±109.0'	105.0'	JMA WIRELESS	MX06FIT845-02	0°		INTEGRATED			
4	5G	270°	±109.0'	107.8'	ERICSSON	AIR6419	0°		INTEGRATED			

PROPOSED MICROWAVE SCHEDULE									
MICROWAVE	TECHNOLOGY	AZIMUTH	RAD CENTER	ANTENNA MANUFACTURER	MODEL	MECH TILT	CABLE	ODU MANUFACTURER	ODU MODEL
MW 1	-	191.352°	65'-0"	ANDREW	VHLPX3-18A	-	HYBRID	NOKIA	M18426-1

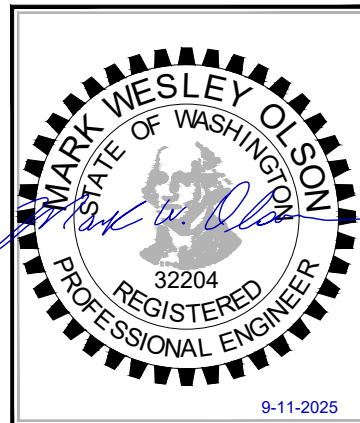


- TOWER OWNER DRAWINGS
- CARRIER DRAWINGS

STACKER BUTTE ALT 1

UNASSIGNED ADDRESS
KLUCKITAT, WA 98635
KLUCKITAT COUNTY

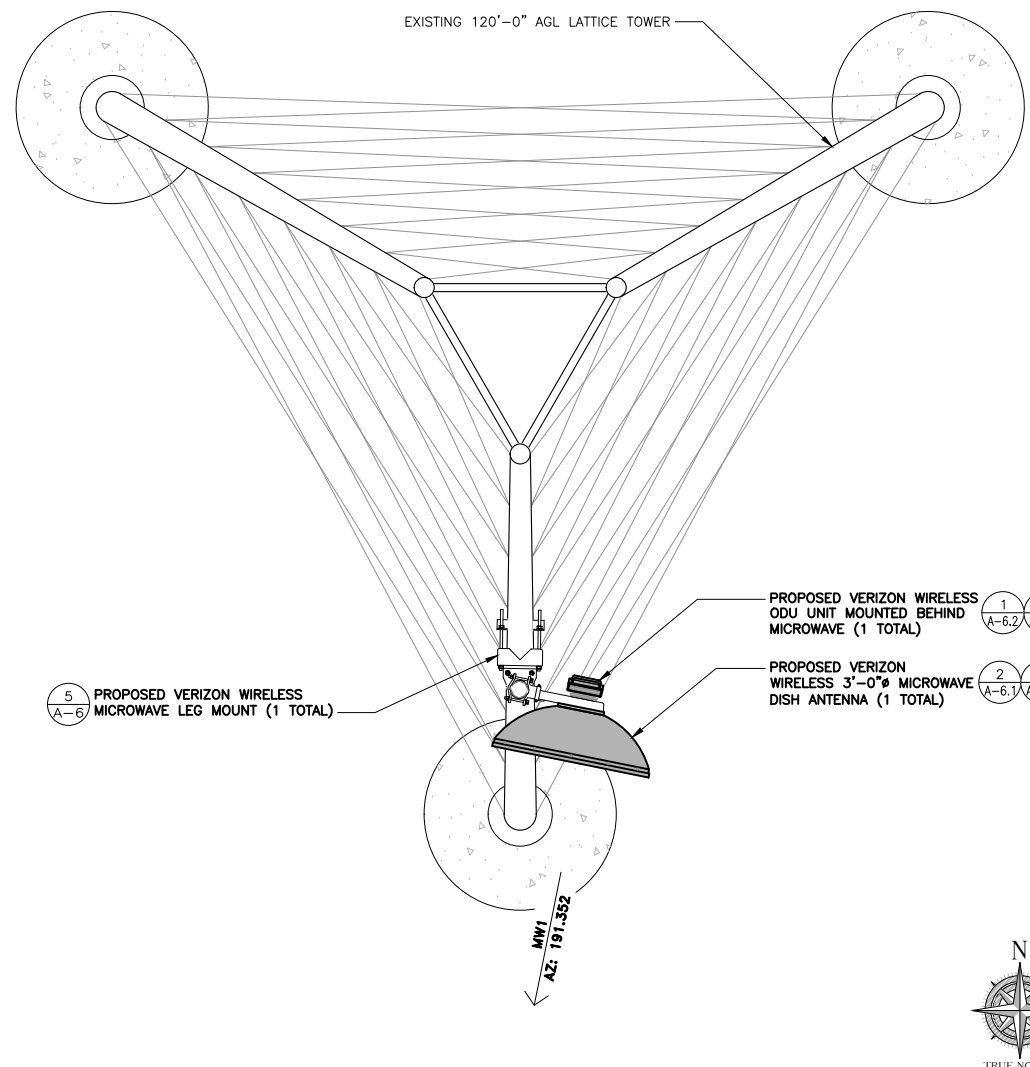
REVISIONS				
DRAWN BY	CHECKED	APPROVED	DATE	DESCRIPTION
RLD	DRA	MWO		
REV.	DATE	DESCRIPTION	BY	
A	12/06/24	ISSUED FOR 90% CD REVIEW	RLD	
0	06/24/25	ISSUED FOR 100% CD SUBMITTAL	RLD	



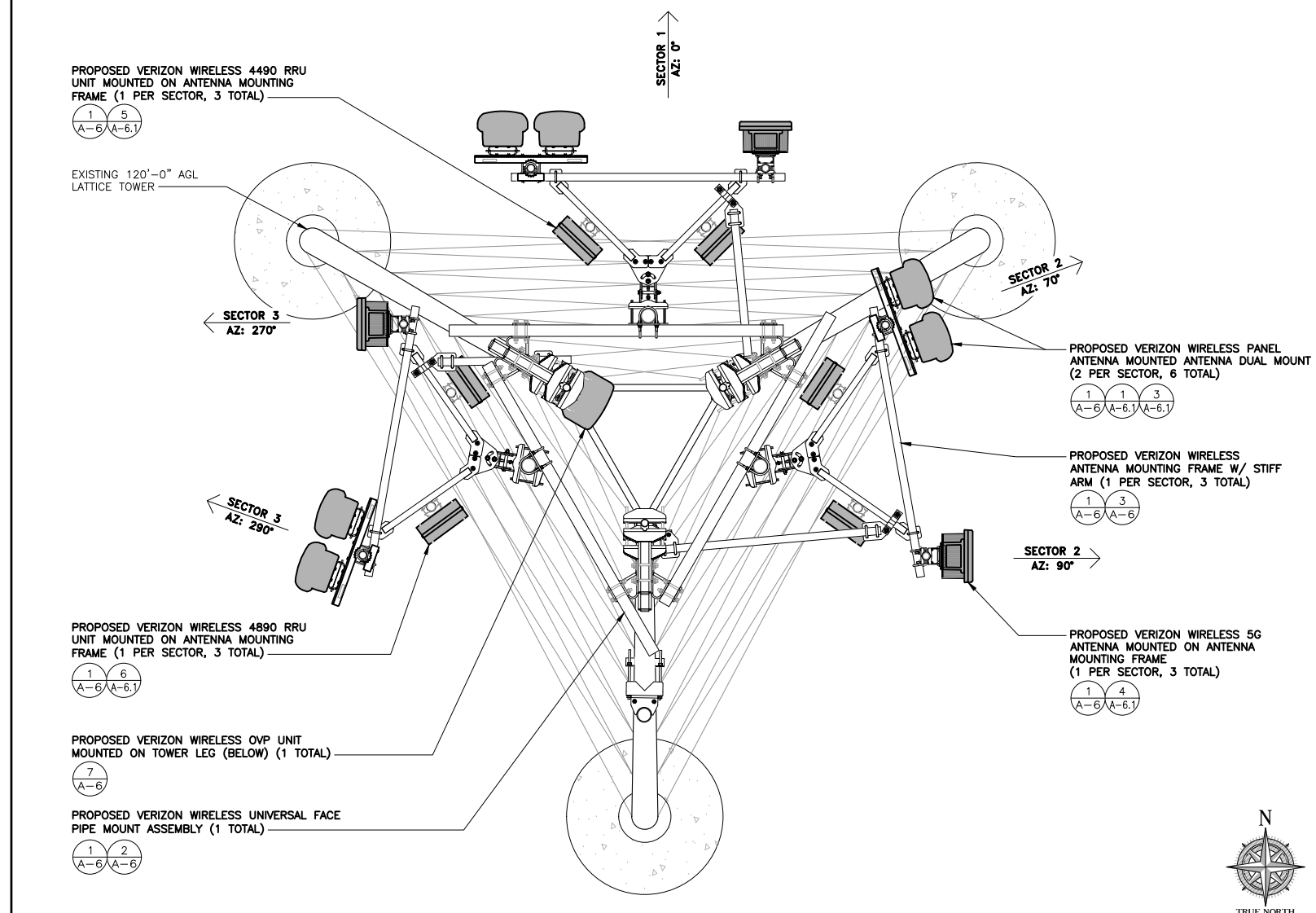
TITLE
PROPOSED ANTENNA
CONFIGURATION & SCHEDULE

SHEET
A-5

PROPRIETARY INFORMATION:
THE INFORMATION CONTAINED IN THIS SET OF
CONSTRUCTION DOCUMENTS IS PROPRIETARY BY
NATURE. ANY USE OR DISCLOSURE OTHER
THAN THAT WHICH RELATES TO VERIZON
WIRELESS SERVICES IS STRICTLY PROHIBITED.

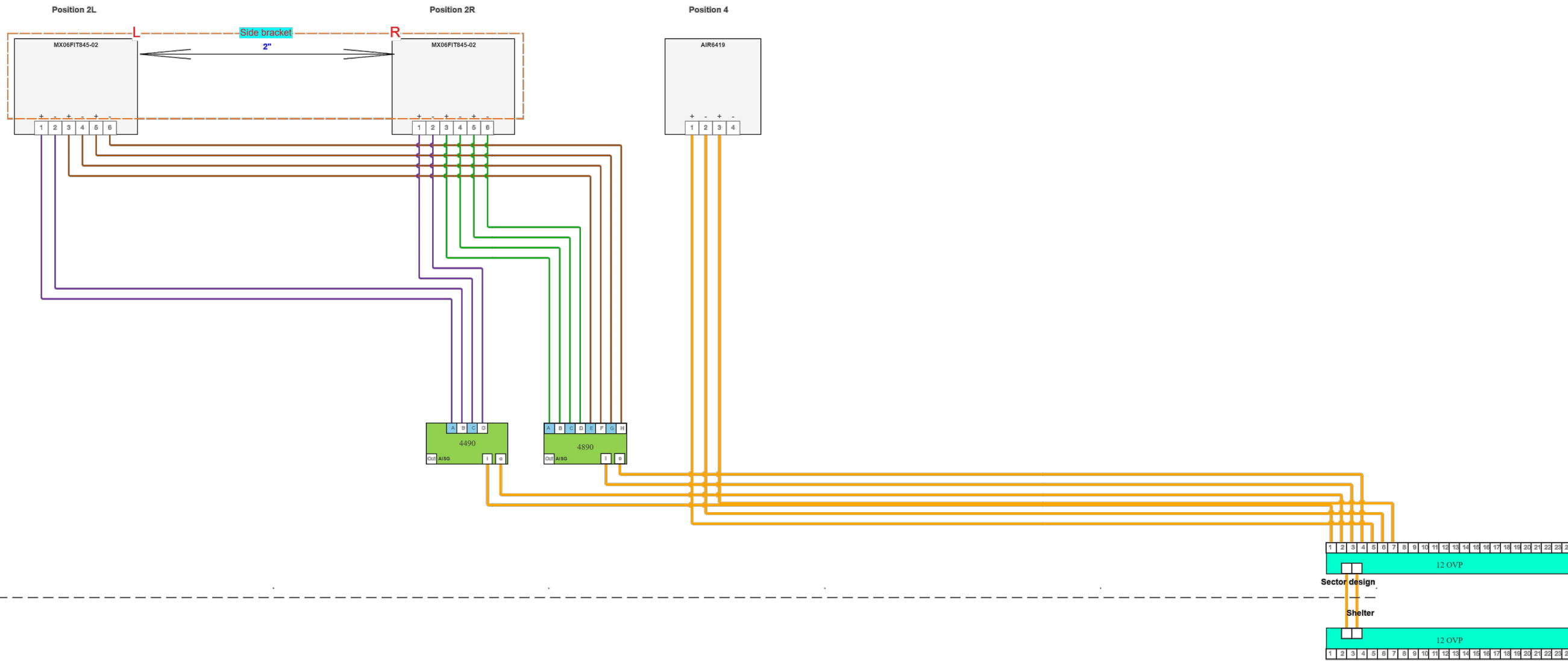


24"x36" SCALE: 1/2" = 1'-0"
11"x17" SCALE: 1/4" = 1'-0"
PROPOSED MICROWAVE CONFIGURATION 2



24"x36" SCALE: 1/2" = 1'-0"
11"x17" SCALE: 1/4" = 1'-0"
PROPOSED ANTENNA CONFIGURATION & SCHEDULE 1

PROPOSED RF PLUMBING DIAGRAM FOR ALPHA, BETA & GAMMA SECTORS

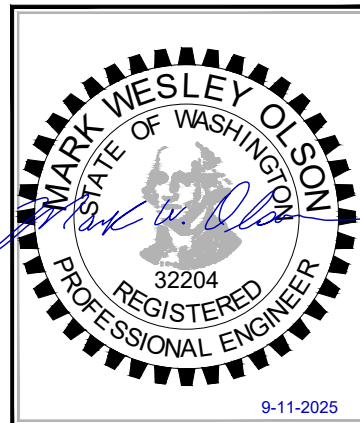


TOWER OWNER DRAWINGS
 CARRIER DRAWINGS

STACKER BUTTE ALT 1

UNASSIGNED ADDRESS
 KLICKITAT, WA 98635
 KLICKITAT COUNTY

REVISIONS				
REV.	DATE	DESCRIPTION	BY	
A	12/06/24	ISSUED FOR 90% CD REVIEW	RLD	
0	06/24/25	ISSUED FOR 100% CD SUBMITTAL	RLD	



TITLE
 PROPOSED RF PLUMBING DIAGRAM

SHEET
A-5.1

PROPRIETARY INFORMATION:
 THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO VERIZON WIRELESS SERVICES IS STRICTLY PROHIBITED.



Microwave Path Datasheet

PCN Date: March 24, 2025
Job Number: 250324COMSAN04

New Path
RCN Number: 250324E6

ADMINISTRATIVE INFORMATION

Site Name	SPEARFISH	STACKER BUTTE
County / State	Klickitat County / WA	Klickitat County / WA
Status / License Basis	Engineering Proposal / Primary	Engineering Proposal / Primary
Radio Service	CF-Common Carrier Fixed	CF-Common Carrier Fixed
Station Class	FXO-Fixed	FXO-Fixed
Call Sign		
Licensee Name	Cellco Partnership - Washington	Cellco Partnership - Washington

SITE INFORMATION

Latitude (NAD 83)	45 37 39.7 N	45 42 44.1 N
Longitude (NAD 83)	121 08 17.2 W	121 06 50.1 W
Ground Elevation (AMSL)	76.20 m / 250.0 ft	957.07 m / 3140.0 ft
Antenna Structure Registration #		
Path Azimuth	11.334°	191.352°
Path Length / Atmospheric Loss / Free Space Loss	9.585 km (5.956 mi) / 0.7 dB / 137.5 dB	

PRIMARY ANTENNA INFORMATION

Antenna Code	87171A	87171A
Manufacturer	ANDREW	ANDREW
Model / Diameter	VHLPX3-18A / 3.0 ft	VHLPX3-18A / 3.0 ft
Gain / Beamwidth / Tilt	43.50 dBi / 1.10° / 5.2°	43.50 dBi / 1.10° / -5.2°
Centerline (AGL)	27.43 m / 90.0 ft	19.81 m / 65.0 ft
Transmit Mode	Tx/Rx	Tx/Rx

RADIO INFORMATION

Radio Code	M18426-1	M18426-1
Manufacturer	Nokia	Nokia
Model Description	Wavence UBT-S/T SP	Wavence UBT-S/T SP
Stability	0.001%	0.001%
Receiver Threshold	-49.90 dBm	-49.90 dBm
ACM Coord Advantage / ATPC / Trigger Level	No / No / -- dBm	No / No / -- dBm
Coordinated Power / RSL	25.8 / -32.6 dBm	25.8 / -32.6 dBm
Fixed Loss: Common / TX / RX	-- / 3.6 / 3.6 dB	-- / 3.6 / 3.6 dB

Radio Model	Modulation	Emission Designator	Data Rate (kbps)	Power (dB)	EIRP (dB)	RSL (dB)	Power (dB)	EIRP (dB)	RSL (dB)
WVCE18-U-4096A80S-717 SP	4096 QAM	80M0D7W	717000	19.8	59.7	-38.6	19.8	59.7	-38.6
WVCE18-U-2048A80S-657 SP	2048 QAM	80M0D7W	657000	20.3	60.2	-38.1	20.3	60.2	-38.1
WVCE18-U-1024A80S-599 SP	1024 QAM	80M0D7W	599000	20.8	60.7	-37.6	20.8	60.7	-37.6
WVCE18-U-512A80S-540 SP	512 QAM	80M0D7W	540000	21.8	61.7	-36.6	21.8	61.7	-36.6
WVCE18-U-256A80S-499 SP	256 QAM	80M0D7W	499000	21.9	61.8	-36.5	21.9	61.8	-36.5
WVCE18-U-128A80S-435 SP	128 QAM	80M0D7W	435000	22.3	62.2	-36.1	22.3	62.2	-36.1
WVCE18-U-64A80S-367 SP	64 QAM	80M0D7W	367000	22.4	62.3	-36.0	22.4	62.3	-36.0
WVCE18-U-32A80S-293 SP	32 QAM	80M0D7W	293000	24.2	64.1	-34.2	24.2	64.1	-34.2
WVCE18-U-16A80S-234 SP	16 QAM	80M0D7W	234000	24.2	64.1	-34.2	24.2	64.1	-34.2
WVCE18-U-4A80S-117 SP	4 QAM	80M0D7W	117000	25.8	65.7	-32.6	25.8	65.7	-32.6

TRANSMIT FREQUENCIES (MHz)

80.0 MHz Channel Bandwidth	17900.0 S (3)	18060.0 S (5)	19460.0 S (3)	19620.0 S (5)
----------------------------	---------------	---------------	---------------	---------------



LAND SURVEYING
ENGINEERING
ARCHITECTURE
DRONE INSPECTION
REAL ESTATE SERVICES



- TOWER OWNER DRAWINGS
- CARRIER DRAWINGS

STACKER BUTTE ALT 1

UNASSIGNED ADDRESS
KLICKITAT, WA 98635
KLICKITAT COUNTY

REVISIONS

REV.	DATE	DESCRIPTION	BY
A	12/06/24	ISSUED FOR 90% CD REVIEW	RLD
0	06/24/25	ISSUED FOR 100% CD SUBMITTAL	RLD



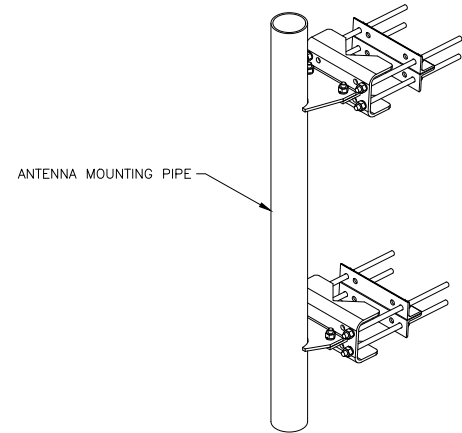
9-11-2025

TITLE
PROPOSED MICROWAVE DESIGN SHEET

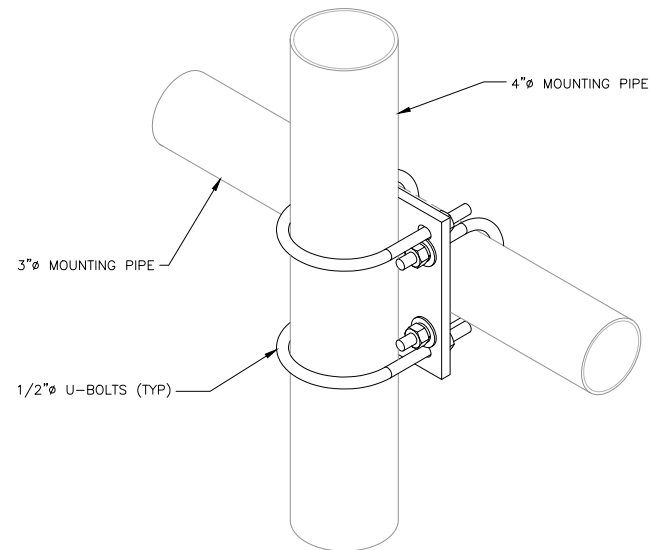
SHEET
A-5.2

PROPRIETARY INFORMATION:
THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO VERIZON WIRELESS SERVICES IS STRICTLY PROHIBITED.

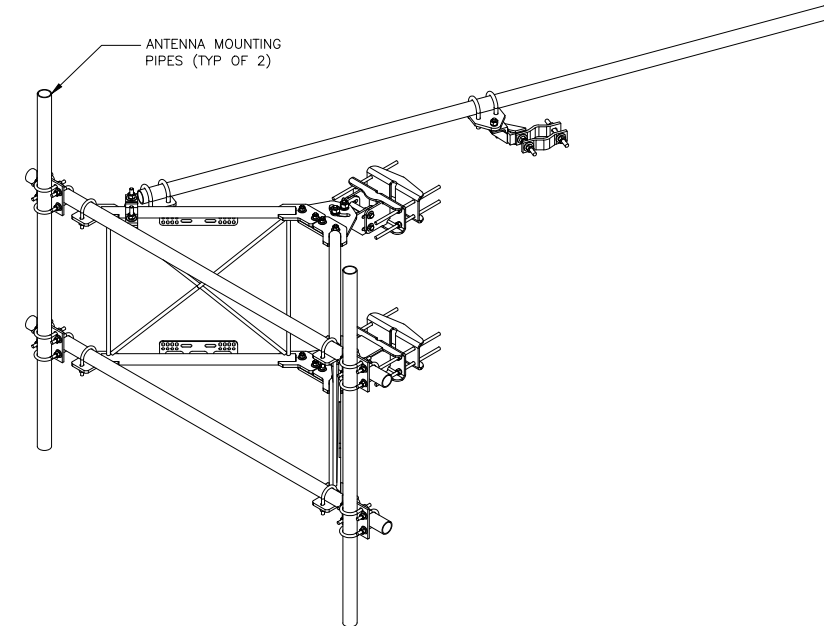
MANUFACTURER: SITE PRO 1
 MODEL: LPM3 OR APPROVED EQUAL
 UNIVERSAL LEG-MOUNTED PIPE MOUNT WITH
 4-1/2" OD X 60" MOUNTING PIPE FOR
 VERTICAL TOWER LEGS WITH 16:1 SLOPE
 WEIGHT: 126 LBS



MANUFACTURER: SITE PRO 1
 MODEL: SCX7-K CROSSOVER PLATE



MANUFACTURER: SITE PRO 1
 MODEL: VFA6-SD-S
 7'-0" V-FRAME ASSEMBLY W/ ONE
 STIFF ARMS OR APPROVED EQUAL
 WEIGHT: 347.01 LBS



24"x36" SCALE: N.T.S.
 11"x17" SCALE: N.T.S.

MICROWAVE LEG MOUNT 5

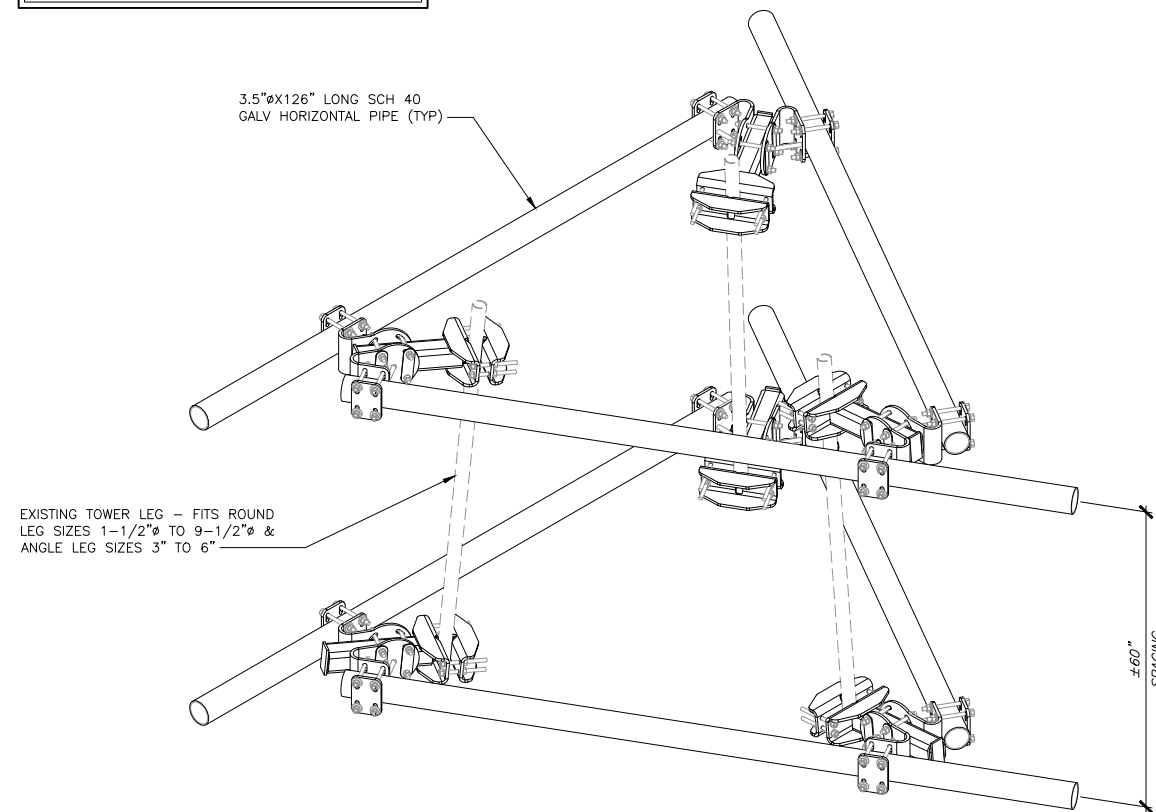
24"x36" SCALE: N.T.S.
 11"x17" SCALE: N.T.S.

CROSSOVER PLATE 4

24"x36" SCALE: N.T.S.
 11"x17" SCALE: N.T.S.

SECTOR FRAME MOUNT 3

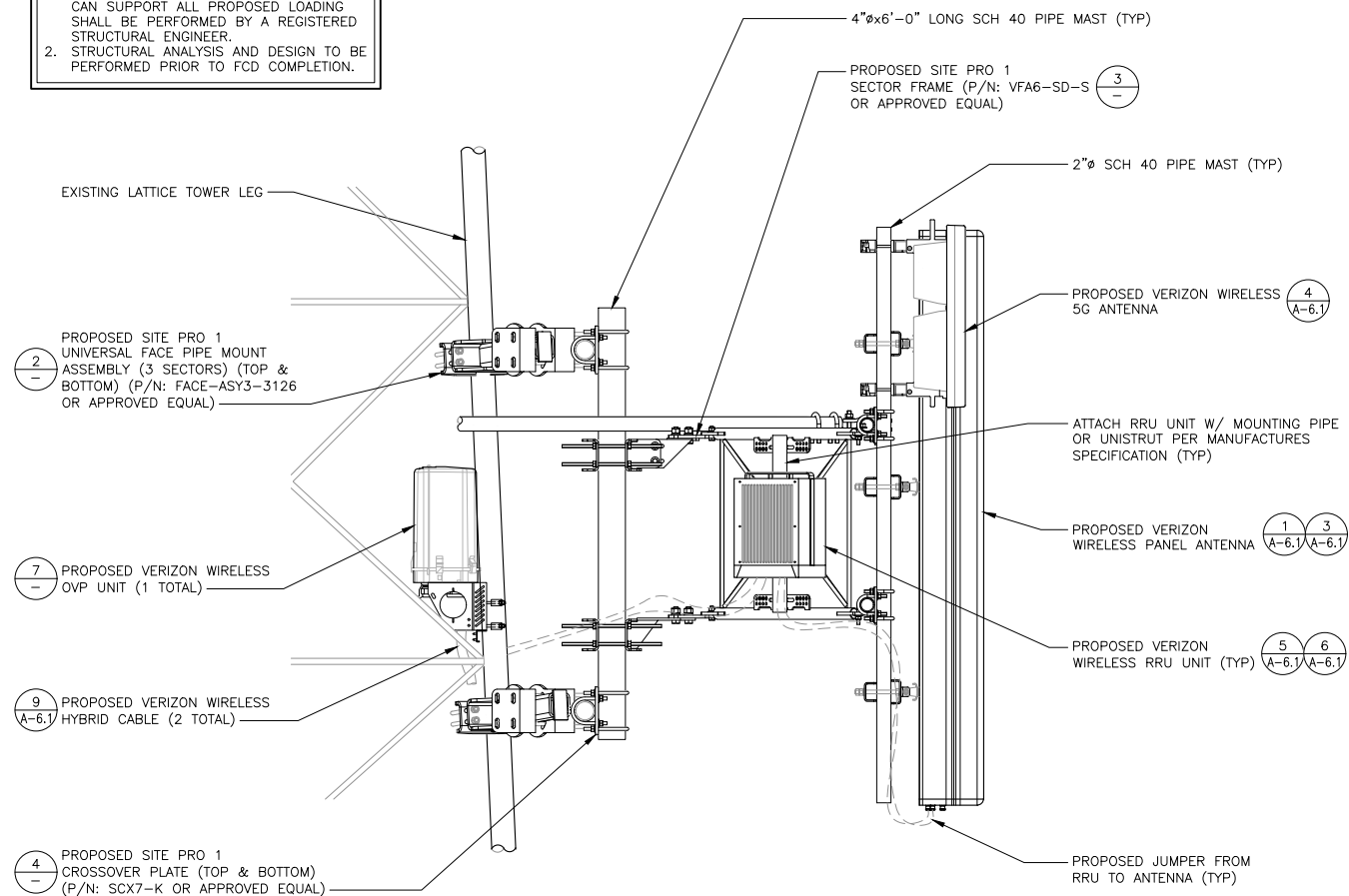
MANUFACTURER: SITE PRO 1
 MODEL: FACE-ASY3-3126 - UNIVERSAL FACE PIPE
 MOUNT ASSEMBLY (3 SECTORS)
 WEIGHT: 1,330 LBS



24"x36" SCALE: N.T.S.
 11"x17" SCALE: N.T.S.

UNIVERSAL FACE PIPE MOUNT ASSEMBLY 2

NOTES:
 1. VERIFICATION THAT THE ANTENNA MOUNTS
 CAN SUPPORT ALL PROPOSED LOADING
 SHALL BE PERFORMED BY A REGISTERED
 STRUCTURAL ENGINEER.
 2. STRUCTURAL ANALYSIS AND DESIGN TO BE
 PERFORMED PRIOR TO FCD COMPLETION.



12"x24" SCALE: 3/4" = 1'-0"
 11"x17" SCALE: 3/8" = 1'-0"

ANTENNA MOUNTING 1



LAND SURVEYING
 ENGINEERING
 ARCHITECTURE
 DRONE INSPECTION
 REAL ESTATE SERVICES



TOWER OWNER DRAWINGS
 CARRIER DRAWINGS

STACKER BUTTE ALT 1

UNASSIGNED ADDRESS
 KLUCKITAT, WA 98635
 KLUCKITAT COUNTY

REVISIONS

REV.	DATE	DESCRIPTION	BY
A	12/06/24	ISSUED FOR 90% CD REVIEW	RLD
0	06/24/25	ISSUED FOR 100% CD SUBMITTAL	RLD



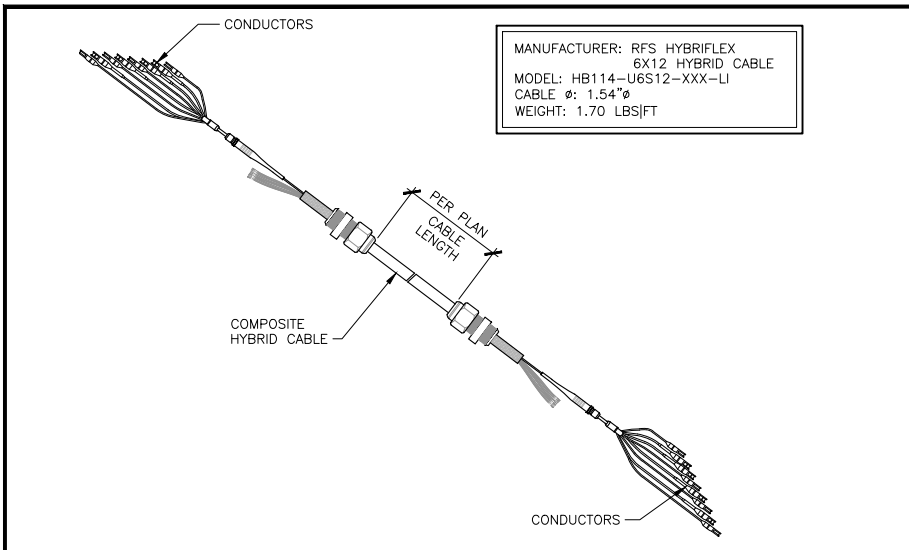
9-11-2025

TITLE
 ANTENNA MOUNTING DETAILS

SHEET

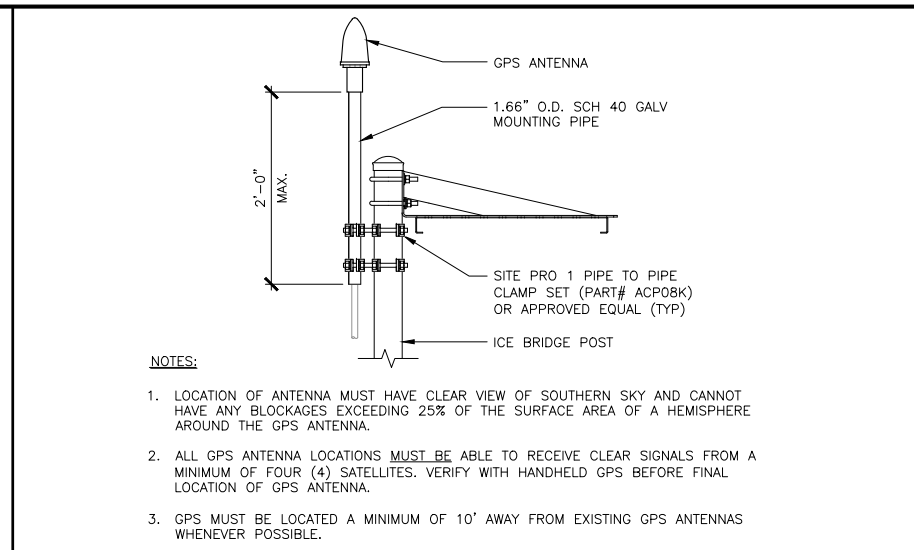
A-6

PROPRIETARY INFORMATION:
 THE INFORMATION CONTAINED IN THIS SET OF
 CONSTRUCTION DOCUMENTS IS PROPRIETARY BY
 NATURE. ANY USE OR DISCLOSURE OTHER
 THAN THAT WHICH RELATES TO VERIZON
 WIRELESS SERVICES IS STRICTLY PROHIBITED.



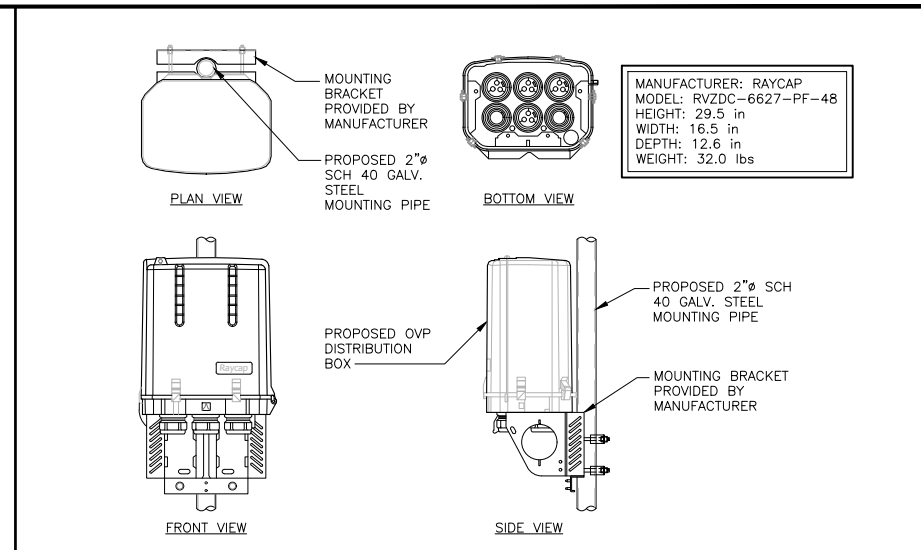
24"x36" SCALE: N.T.S.
 11"x17" SCALE: N.T.S.

HYBRID FIBER CABLE 9



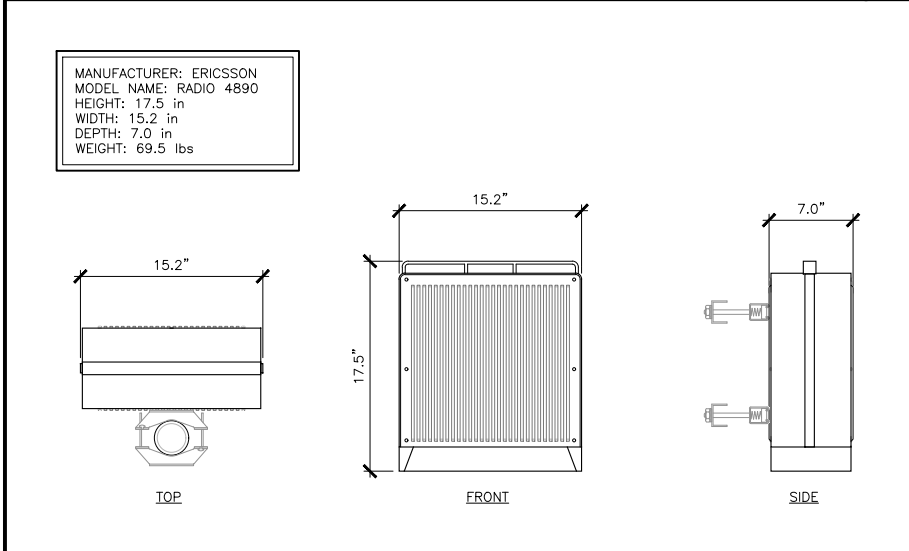
24"x36" SCALE: 1" = 1"
 11"x17" SCALE: 1" = 1/2"

GPS ANTENNA MOUNTING 8



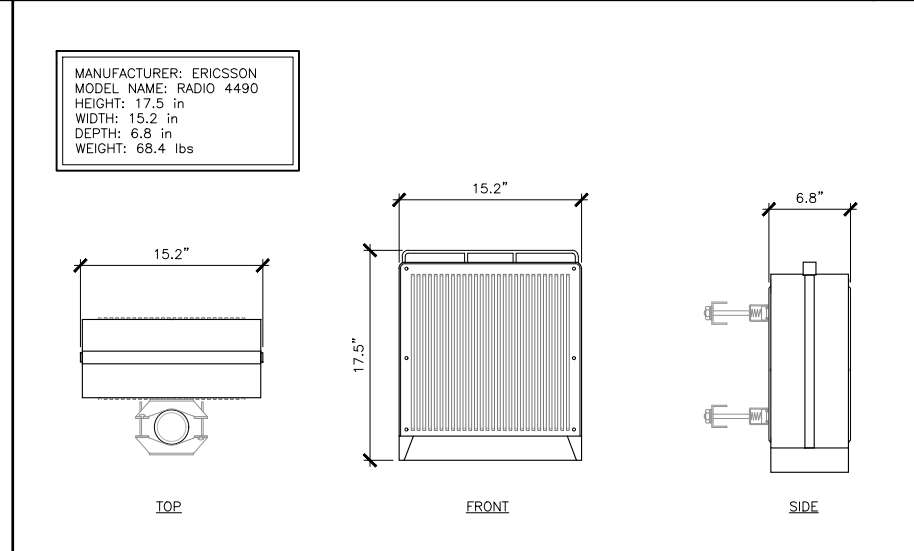
24"x36" SCALE: N.T.S.
 11"x17" SCALE: N.T.S.

OVP UNIT 7



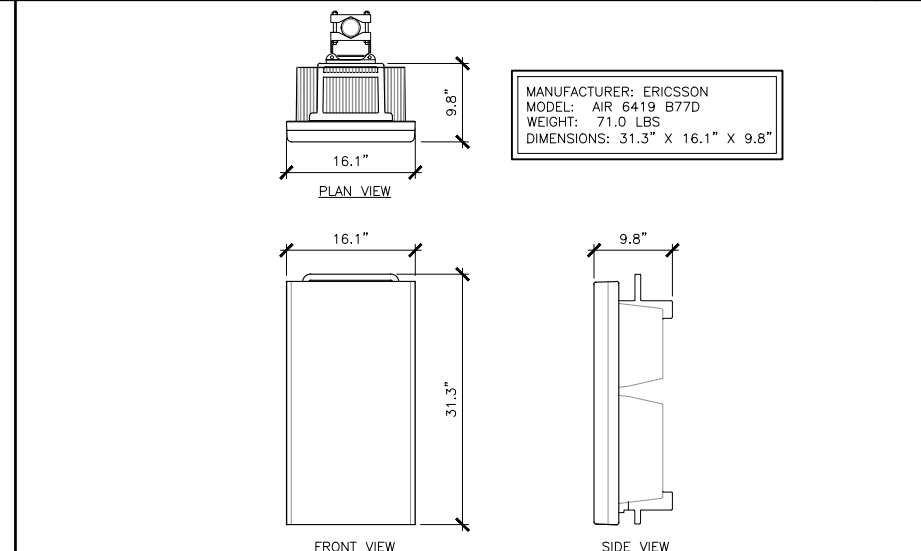
12"x24" SCALE: 1-1/2" = 1'-0"
 11"x17" SCALE: 3/4" = 1'-0"

4890 RRU UNIT 6



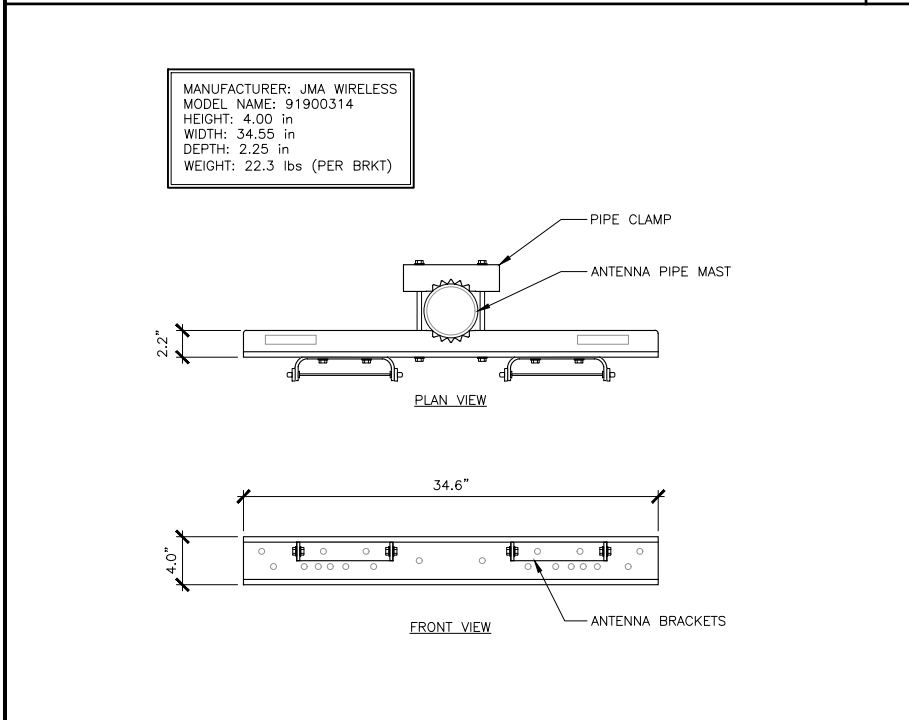
12"x24" SCALE: 1-1/2" = 1'-0"
 11"x17" SCALE: 3/4" = 1'-0"

4490 RRU UNIT 5



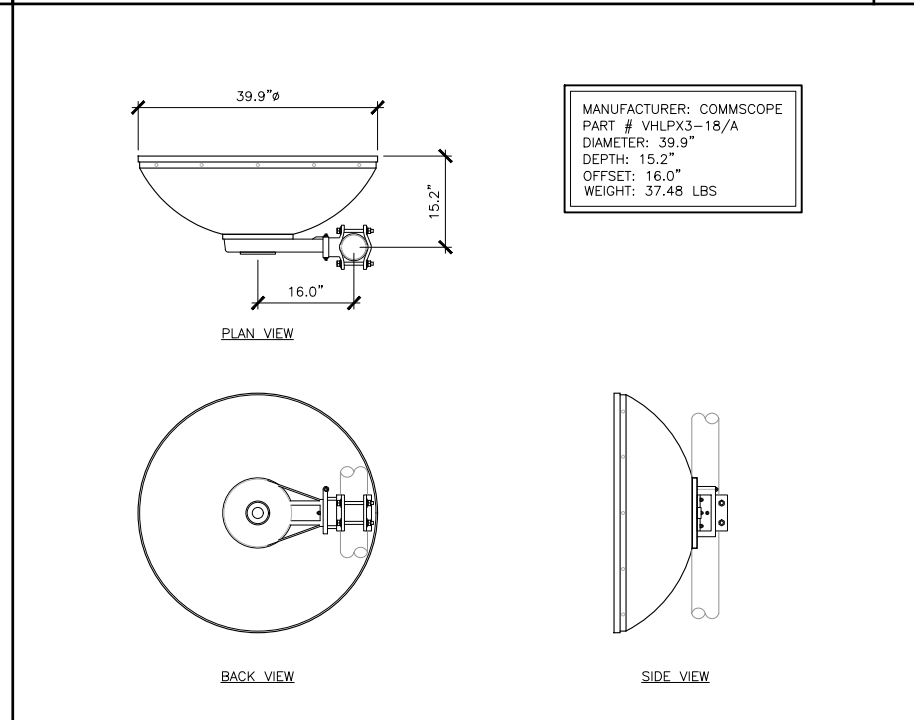
12"x24" SCALE: 1" = 1'-0"
 11"x17" SCALE: 1/2" = 1'-0"

5G ANTENNA 4



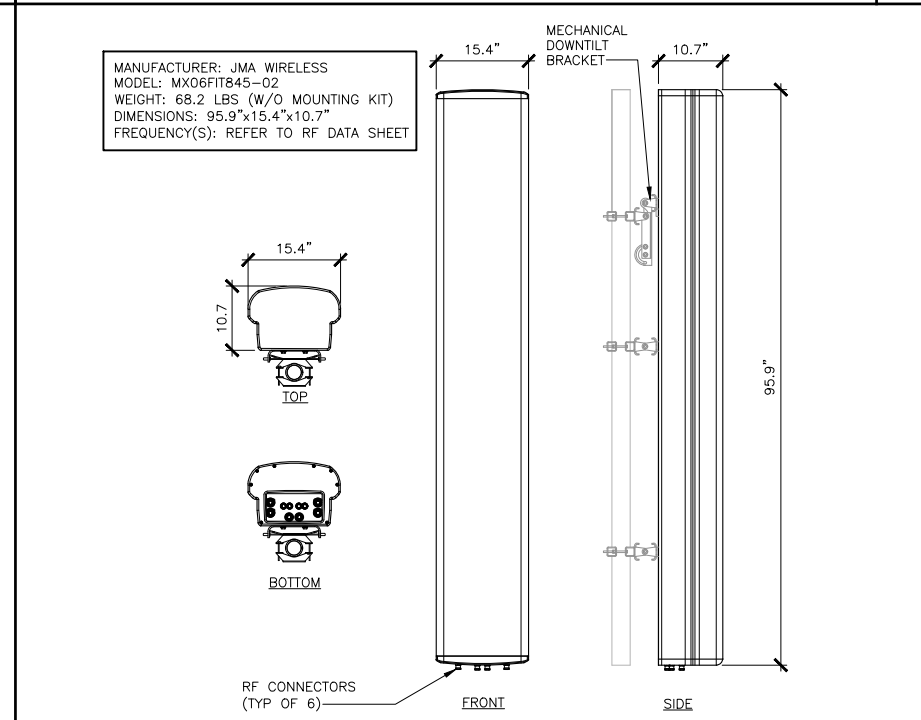
24"x36" SCALE: N.T.S.
 11"x17" SCALE: N.T.S.

DUAL ANTENNA MOUNT 3



12"x24" SCALE: 3/4" = 1'-0"
 11"x17" SCALE: 3/8" = 1'-0"

MICROWAVE DISH ANTENNA 2



12"x24" SCALE: 3/4" = 1'-0"
 11"x17" SCALE: 3/8" = 1'-0"

LTE PANEL ANTENNA 1



TOWER OWNER DRAWINGS
 CARRIER DRAWINGS

STACKER BUTTE ALT 1

UNASSIGNED ADDRESS
 KLICKITAT, WA 98635
 KLICKITAT COUNTY

REVISIONS

REV.	DATE	DESCRIPTION	BY
A	12/06/24	ISSUED FOR 90% CD REVIEW	RLD
0	06/24/25	ISSUED FOR 100% CD SUBMITTAL	RLD



TITLE
 ANTENNA DETAILS

SHEET
A-6.1

PROPRIETARY INFORMATION:
 THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO VERIZON WIRELESS SERVICES IS STRICTLY PROHIBITED.

STACKER BUTTE ALT 1

UNASSIGNED ADDRESS
KLICKITAT, WA 98635
KLICKITAT COUNTY

REVISIONS			
REV.	DATE	DESCRIPTION	BY
A	12/06/24	ISSUED FOR 90% CD REVIEW	RLD
0	06/24/25	ISSUED FOR 100% CD SUBMITTAL	RLD



TITLE
ANTENNA DETAILS

SHEET
A-6.2

PROPRIETARY INFORMATION:
THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO VERIZON WIRELESS SERVICES IS STRICTLY PROHIBITED.

24"x36" SCALE: N.T.S.
11"x17" SCALE: N.T.S.

NOT USED **5**

24"x36" SCALE: N.T.S.
11"x17" SCALE: N.T.S.

NOT USED **4**

24"x36" SCALE: N.T.S.
11"x17" SCALE: N.T.S.

NOT USED **3**

T600 - UNIVERSAL T-BRACKET BY SITE PRO 1				
ITEM	PART NO.	DESCRIPTION	QTY.	WEIGHT
1	X-T600	T-BRACKET WELDMENT FOR T600	1	2.79 LBS
2	UTB-BB	BACK BRACKET FOR UNIVERSAL T-BRACKETS	1	1.89 LBS
3	G38FW	3/8 HDG USS FLATWASHER	4	0.05 LBS
4	G38LW	BACK BRACKET FOR UNIVERSAL T-BRACKETS	4	0.03 LBS
5	G38NUT	BACK BRACKET FOR UNIVERSAL T-BRACKETS	4	0.14 LBS
6	G38R-9.75	BACK BRACKET FOR UNIVERSAL T-BRACKETS	2	0.70 LBS

MOUNTS TO 1-1/2" TO 6" ROUND MEMBER LEGS AND 2-1/2" TO 6" 90° ANGLE LEGS

24"x36" SCALE: N.T.S.
11"x17" SCALE: N.T.S.

PLAN VIEW
8.82" width, 5.04" depth

FRONT VIEW
8.82" width, 10.39" height

SIDE VIEW
5.04" width, 10.39" height

NOKIA - WAVENCE (ODU)
PART # UBT-S
HEIGHT: 10.39"
WIDTH: 8.82"
DEPTH: 5.04"
WEIGHT: 9.04 LBS

24"x36" SCALE: N.T.S.
11"x17" SCALE: N.T.S.

MICROWAVE ANTENNA (2/A-6.1)

PIPE MAST

MOUNT ADJUSTMENT ASSEMBLY W/ (2) M10 HEX HD SCREWS, (2) LOCK WASHERS & (2) FLAT WASHERS

(1) ODU INSTALLED PER MANUFACTURER'S RECOMMENDATIONS (2/-)

24"x36" SCALE: N.T.S.
11"x17" SCALE: N.T.S.

UNIVERSAL T-BRACKET **3**

12"x24" SCALE: 3" = 1'-0"
11"x17" SCALE: 1-1/2" = 1'-0"

ODU UNIT **2**

24"x36" SCALE: N.T.S.
11"x17" SCALE: N.T.S.

MICROWAVE MOUNTING **1**



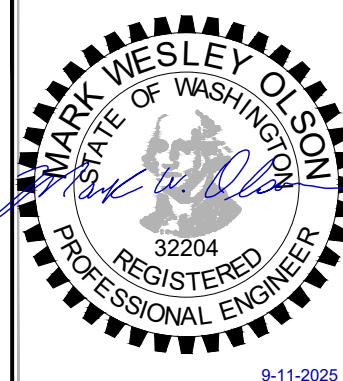
- TOWER OWNER DRAWINGS
- CARRIER DRAWINGS

STACKER BUTTE ALT 1

UNASSIGNED ADDRESS
KLIKITAT, WA 98635
KLIKITAT COUNTY

REVISIONS

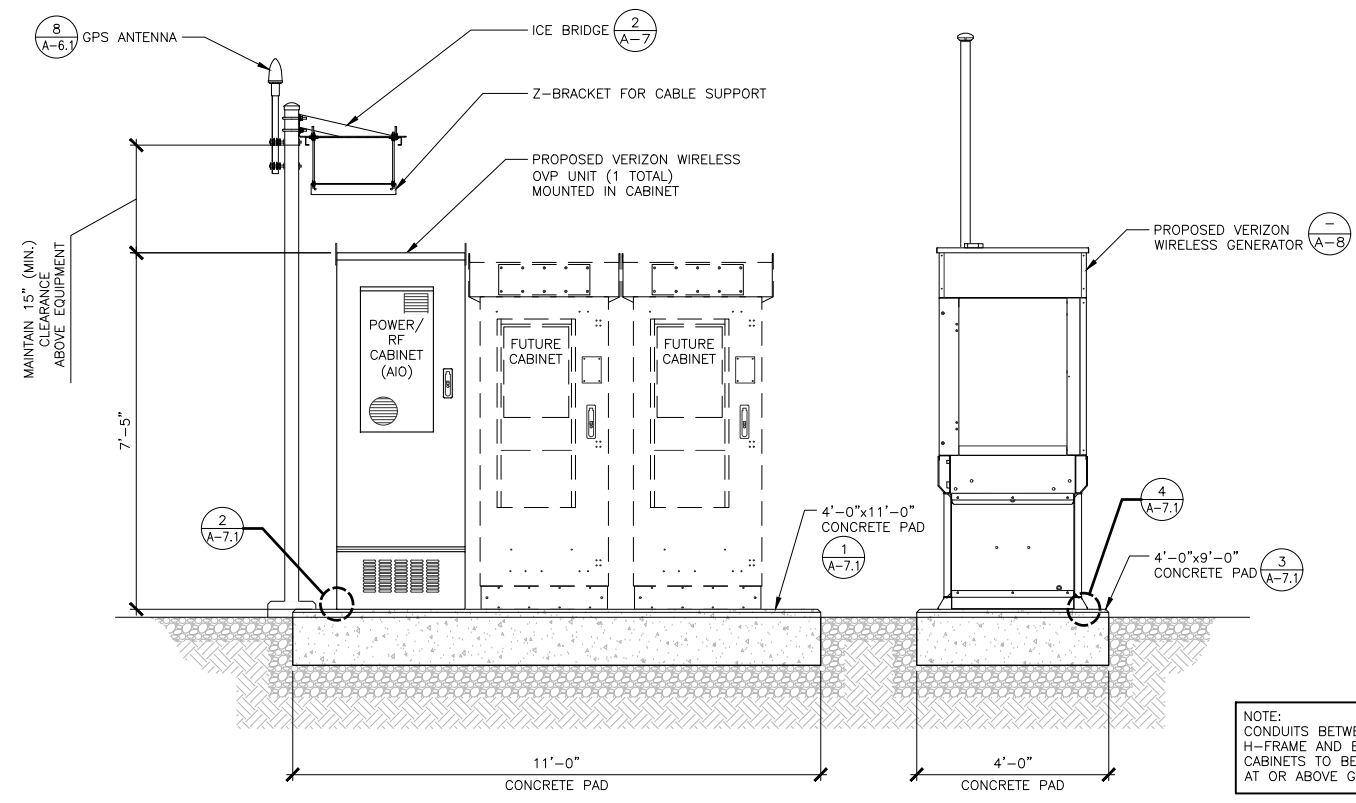
REV.	DATE	DESCRIPTION	BY
A	12/06/24	ISSUED FOR 90% CD REVIEW	RLD
0	06/24/25	ISSUED FOR 100% CD SUBMITTAL	RLD



TITLE
EQUIPMENT DETAILS

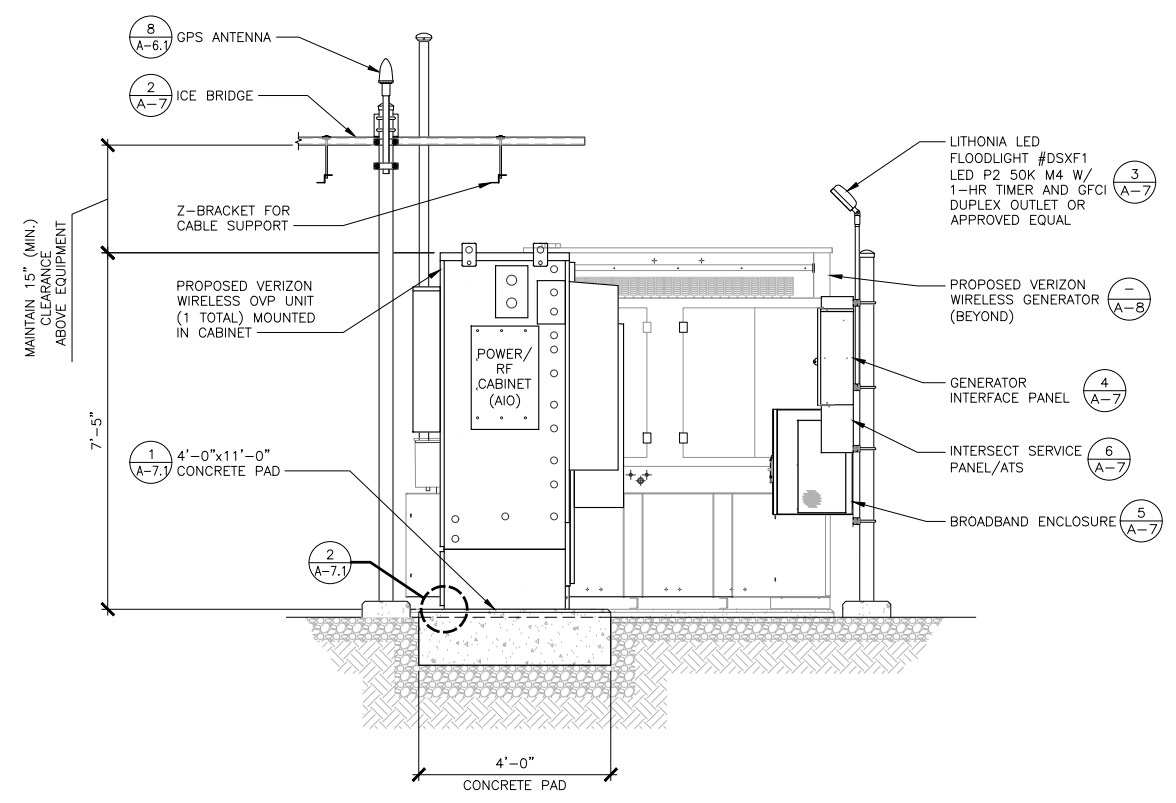
SHEET
A-6.3

PROPRIETARY INFORMATION:
THE INFORMATION CONTAINED IN THIS SET OF
CONSTRUCTION DOCUMENTS IS PROPRIETARY BY
NATURE. ANY USE OR DISCLOSURE OTHER
THAN THAT WHICH RELATES TO VERIZON
WIRELESS SERVICES IS STRICTLY PROHIBITED.



CABINET ELEVATION - FRONT

NOTE:
CONDUITS BETWEEN
H-FRAME AND EQUIPMENT
CABINETS TO BE INSTALLED
AT OR ABOVE GRADE

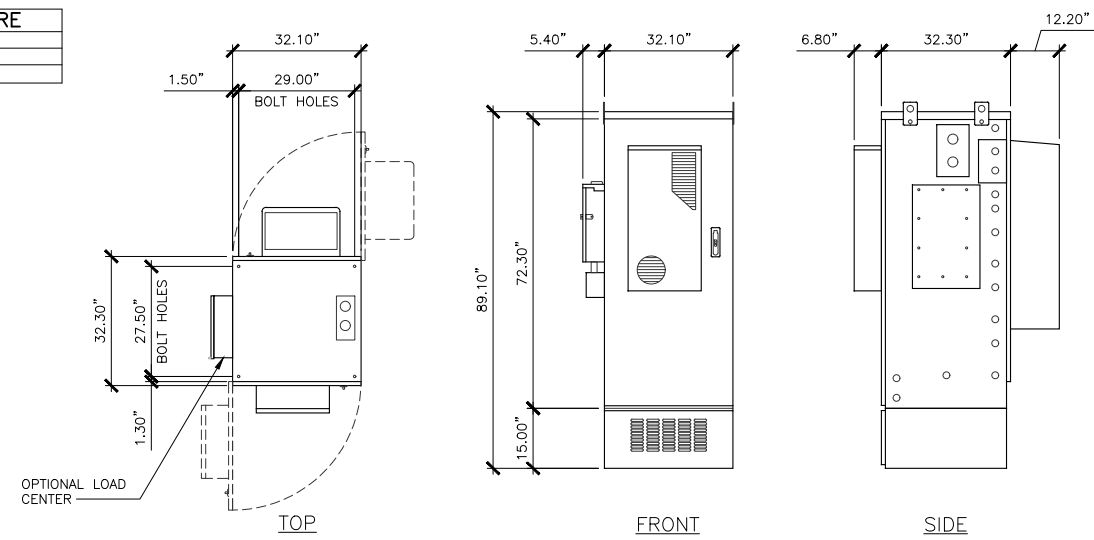


CABINET ELEVATION - SIDE

12"x24" SCALE: 1/2" = 1'-0"
11"x17" SCALE: 1/4" = 1'-0"

EQUIPMENT CABINET & H-FRAME ELEVATIONS 3

EQUIPMENT ENCLOSURE	
MFR	CHARLES
MODEL	PM639XXXXX
WEIGHT	4500 lbs (MAX)



24"x36" SCALE: N.T.S.
11"x17" SCALE: N.T.S.

NOT USED 2

12"x24" SCALE: 1/2" = 1'-0"
11"x17" SCALE: 1/4" = 1'-0"

POWER / BATTERY CABINET DETAIL 1



LAND SURVEYING
ENGINEERING
ARCHITECTURE
DRONE INSPECTION
REAL ESTATE SERVICES



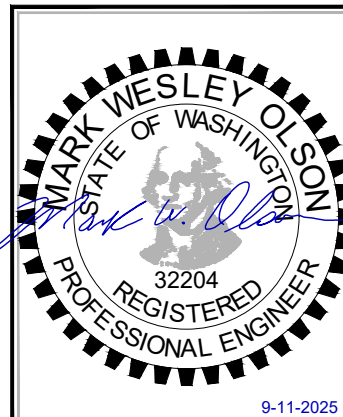
TOWER OWNER DRAWINGS
 CARRIER DRAWINGS

STACKER BUTTE ALT 1

UNASSIGNED ADDRESS
KLUCKITAT, WA 98635
KLUCKITAT COUNTY

REVISIONS

REV.	DATE	DESCRIPTION	BY
A	12/06/24	ISSUED FOR 90% CD REVIEW	RLD
0	06/24/25	ISSUED FOR 100% CD SUBMITTAL	RLD

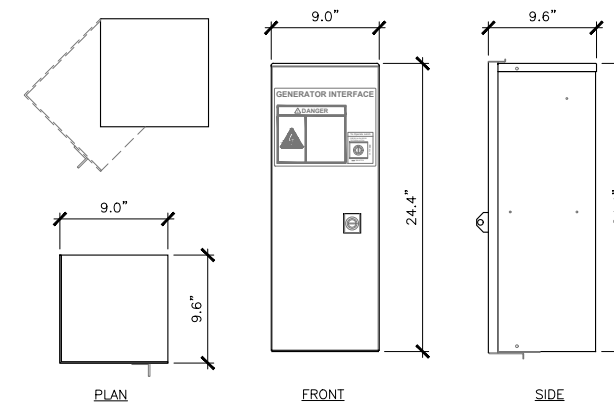


TITLE
CONSTRUCTION DETAILS

SHEET
A-7

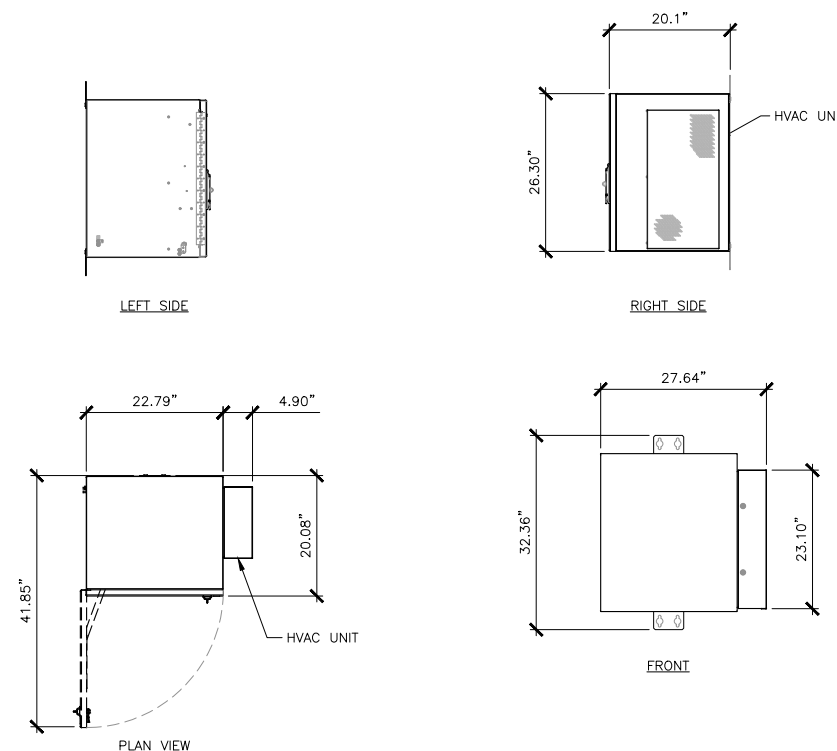
PROPRIETARY INFORMATION:
THE INFORMATION CONTAINED IN THIS SET OF
CONSTRUCTION DOCUMENTS IS PROPRIETARY BY
NATURE. ANY USE OR DISCLOSURE OTHER
THAN THAT WHICH RELATES TO VERIZON
WIRELESS SERVICES IS STRICTLY PROHIBITED.

GEN. INTERFACE PANEL	
MANUFACTURER	INTERSECT
PART NUMBER	ICL-200A
WEIGHT	19 LBS

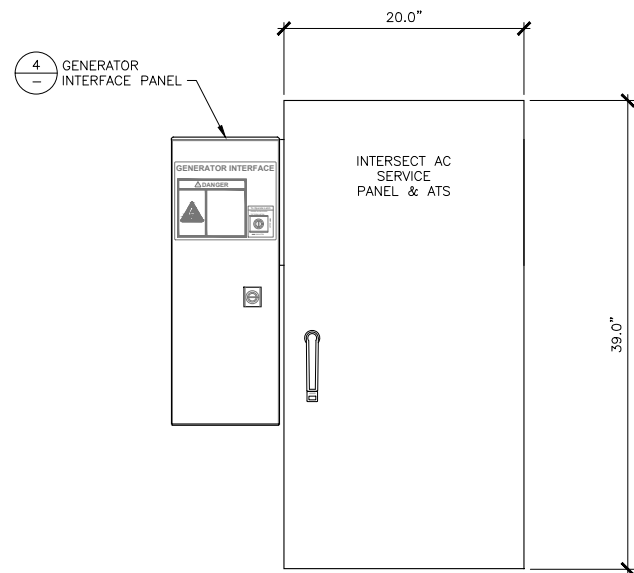


12"x24" SCALE: 1-1/2" = 1'-0"
11"x17" SCALE: 3/4" = 1'-0" **GENERATOR INTERFACE PANEL 4**

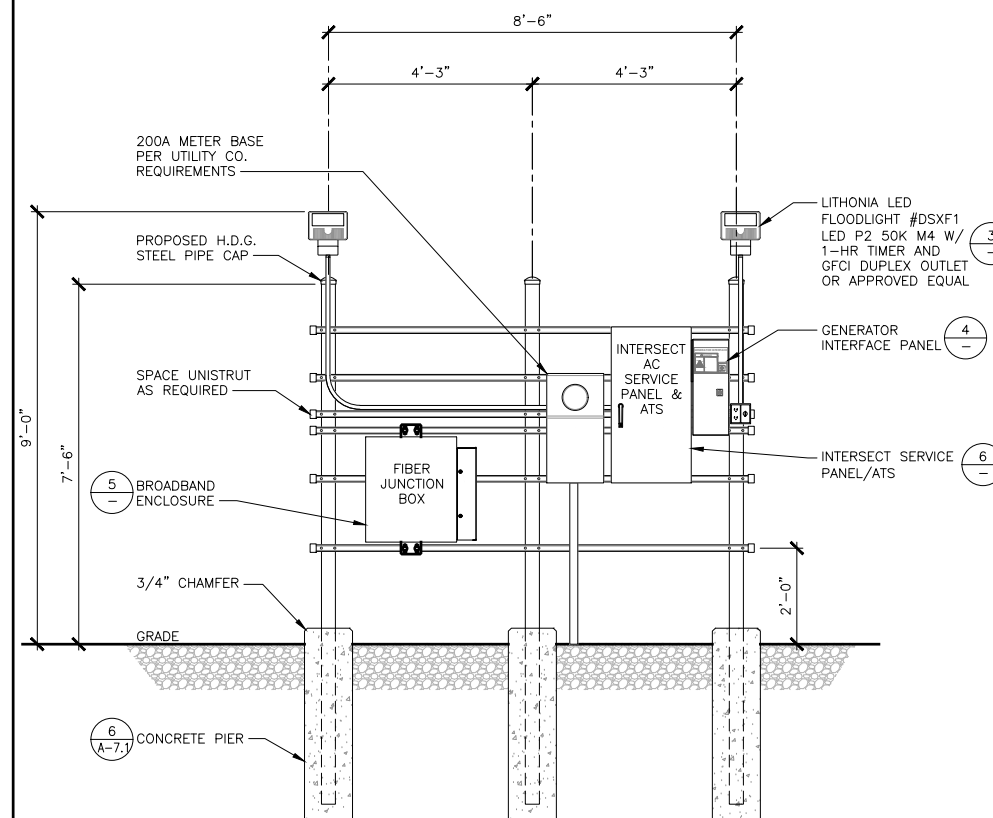
BROADBAND ENCLOSURE	
MFR	CHARLES
MODEL	CUBE_RL1003AB-A
WEIGHT	90 lbs (EMPTY)



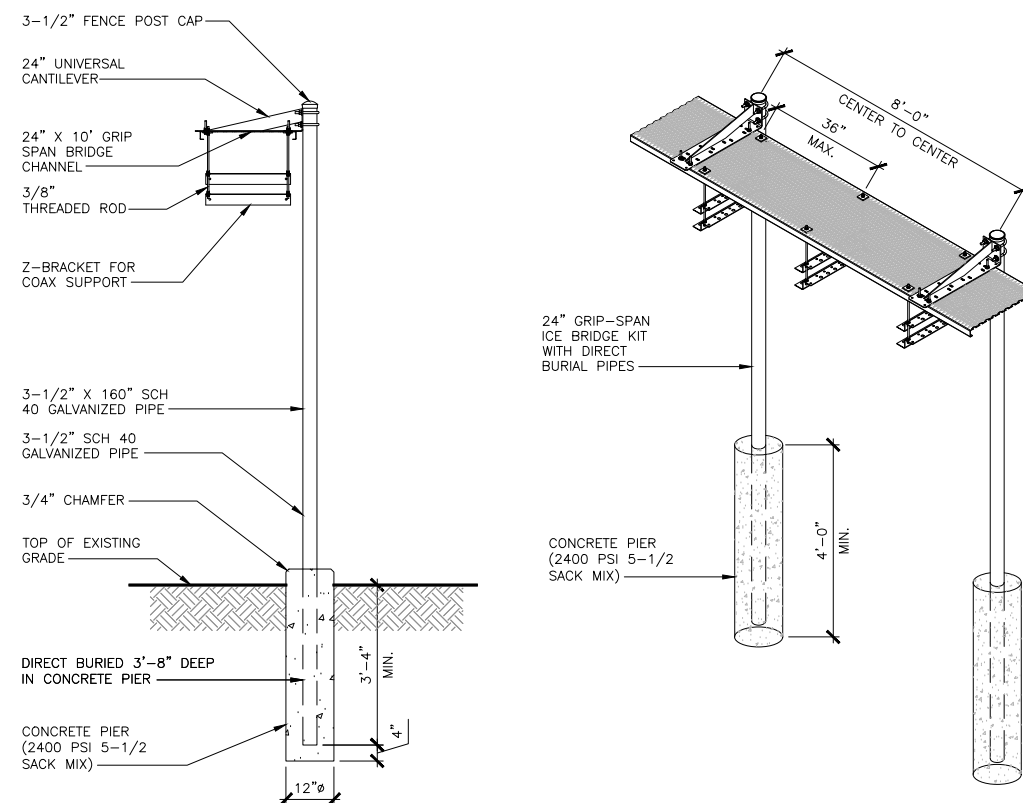
12"x24" SCALE: 3/4" = 1'-0"
11"x17" SCALE: 3/8" = 1'-0" **BROADBAND ENCLOSURE 5**



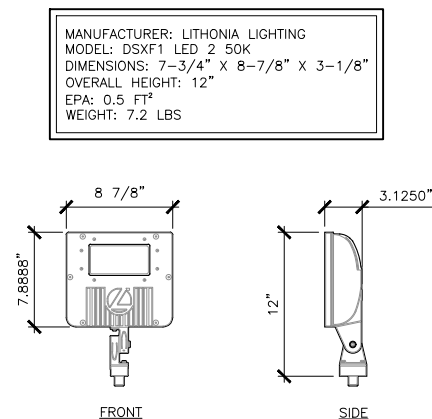
12"x24" SCALE: 1-1/2" = 1'-0"
11"x17" SCALE: 3/4" = 1'-0" **INTERSECT SERVICE PANEL 6**



12"x24" SCALE: 1/2" = 1'-0"
11"x17" SCALE: 1/4" = 1'-0" **H-FRAME ELEVATION 1**



12"x24" SCALE: 1/2" = 1'-0"
11"x17" SCALE: 1/4" = 1'-0" **ICE BRIDGE 2**



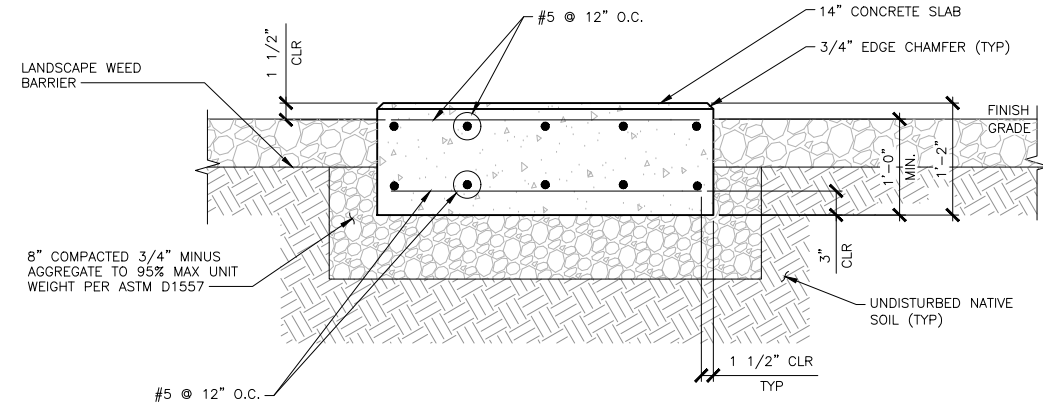
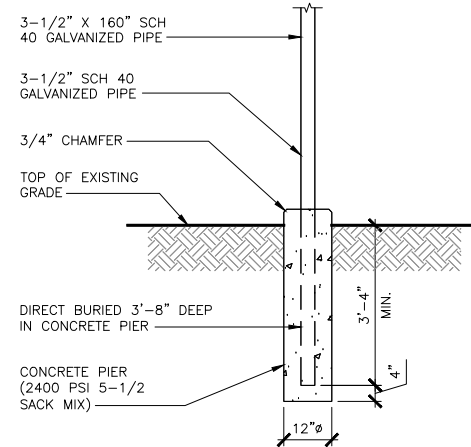
24"x36" SCALE: N.T.S.
11"x17" SCALE: N.T.S. **LED LIGHT 3**

NOTES:

- CONTRACTOR TO CONTACT ALL UTILITIES FOR LOCATION OF UNDERGROUND SERVICES. SERVICES LOCATIONS TO BE CONFIRMED PRIOR TO CONSTRUCTION.
- REMOVE ALL UNSUITABLE OR DELETERIOUS MATERIALS AS REQUIRED. COMPACT UNDERLYING SOIL TO 90% OF MAXIMUM DENSITY. REPLACE SOIL WITH 8" LIFTS OF GRANULAR "B" MATERIAL TO A DEPTH OF 4" BELOW PROPOSED GRADE. COMPACT TO MINIMUM 95% OF MAXIMUM DRY DENSITY ALL COMPACTION SHALL BE IN ACCORDANCE WITH THE ASTM D698. REVIEW WITH PROJECT MANAGER AND GEOTECH PRIOR TO CONSTRUCTION.
- SUB-BASE COURSE OF GRANULAR "B" MATERIAL SHALL CONSIST OF CRUSHED STONE OR GRAVEL, FREE FROM VEGETATION AND OTHER DELETERIOUS SUBSTANCES. MATERIAL TO BE UNIFORMLY MIXED AND COMPACTED READILY UNDER WATERING AND ROLLING TO FORM A FIRM STABLE BASE. GRATION AS FOLLOWS:

SIEVE SIZES	PERCENTAGE PASSING (BY WEIGHT)
3"	100%
2-1/2"	90%-100%
#4	40%-90%
#200	0%-25%

- BASE COURSE OF GRANULAR "A" MATERIAL SHALL CONSIST OF EVENLY GRADED MIXTURE OF CRUSHED STONE OF GRAVEL WITH 100% PASSING THROUGH 1-1/2" SIEVE AND NOT MORE THAN 5% PASSING THROUGH #4 SIEVE. COMPACT TO 95% OF MAXIMUM DRY DENSITY.
- PROVIDE DEWITT PRO-5 (5 MIL) WEED BARRIER UNDER WASHED CHIPPED STONE COMPOUND UNLESS NOTED OTHERWISE.
- PROVIDE 4" LAYER OF 5/8" TO 7/8" WASHED CHIPPED STONE WITH NO FINES ON FILTER FABRIC.
- NO FABRIC REQUIRED ON STEEP GRADE, FINES WILL BE ALLOWED ON STEEP GRADE PRIOR TO APPROVAL FROM ATC CM



24"x36" SCALE: N.T.S.
11"x17" SCALE: N.T.S.

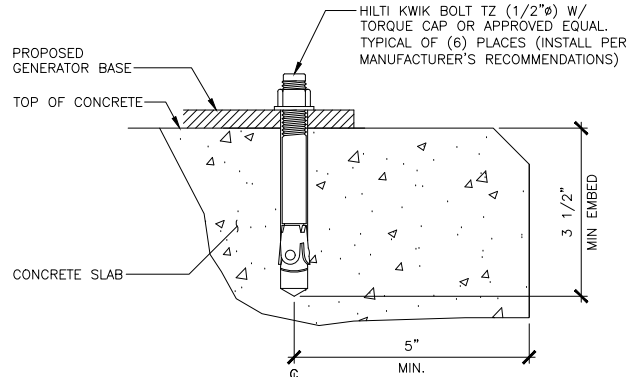
CIVIL NOTES 7

12"x24" SCALE: 1/2" = 1'-0"
11"x17" SCALE: 1/4" = 1'-0"

CONCRETE PIER 6

12"x24" SCALE: 1" = 1'-0"
11"x17" SCALE: 1/2" = 1'-0"

CONCRETE PAD SECTION 5

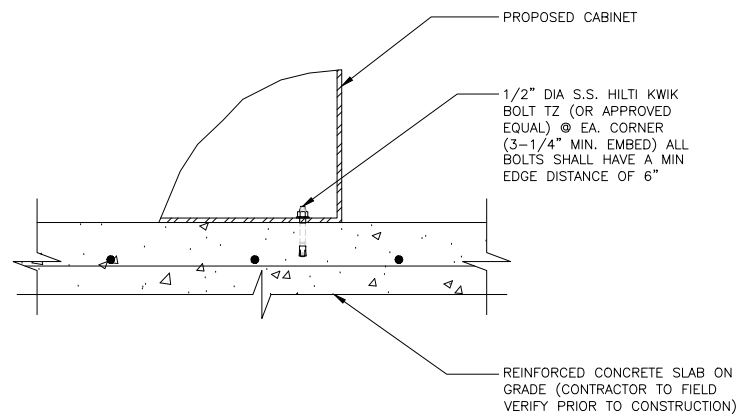


12"x24" SCALE: 6" = 1'-0"
11"x17" SCALE: 3" = 1'-0"

GENERATOR ATTACHMENT 4

24"x36" SCALE: 1" = 1"
11"x17" SCALE: 1" = 1/2"

GENERATOR CONCRETE PAD 3

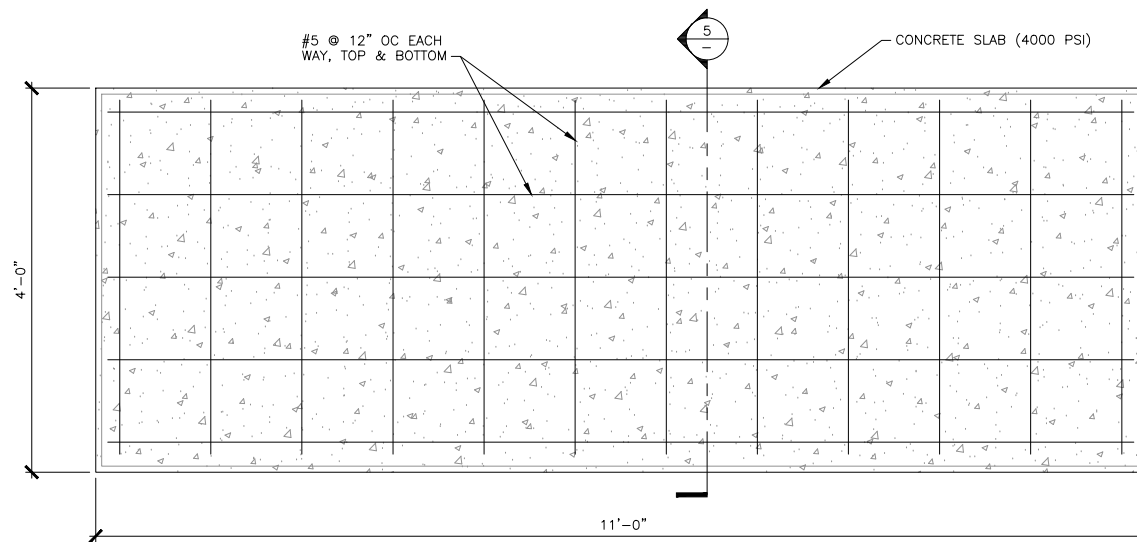
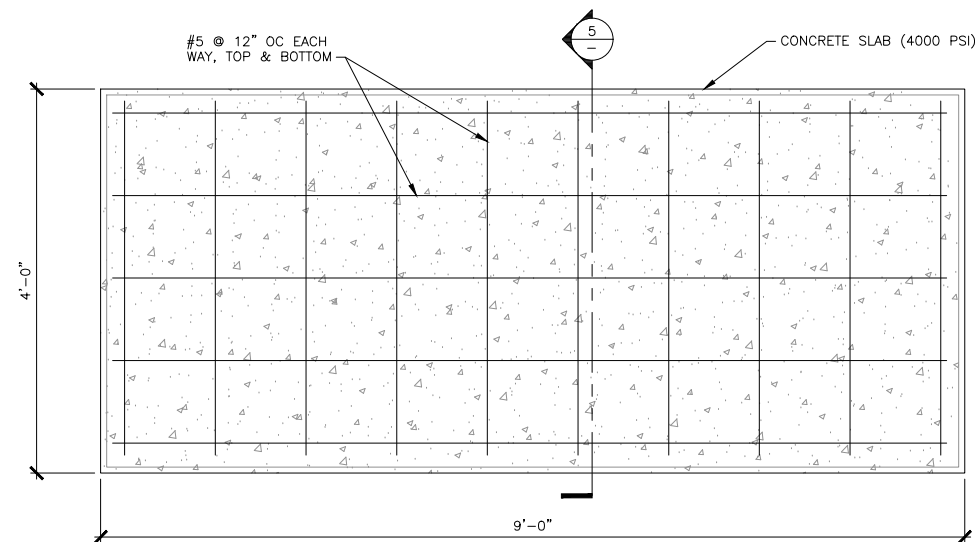


12"x24" SCALE: 1-1/2" = 1'-0"
11"x17" SCALE: 3/4" = 1'-0"

CABINET ATTACHMENT 2

12"x24" SCALE: 1" = 1'-0"
11"x17" SCALE: 1/2" = 1'-0"

EQUIPMENT CONCRETE PAD 1



LAND SURVEYING
ENGINEERING
ARCHITECTURE
DRONE INSPECTION
REAL ESTATE SERVICES

- TOWER OWNER DRAWINGS
- CARRIER DRAWINGS

STACKER BUTTE ALT 1

UNASSIGNED ADDRESS
KLIKITAT, WA 98635
KLIKITAT COUNTY

REVISIONS

REV.	DATE	DESCRIPTION	BY
A	12/06/24	ISSUED FOR 90% CD REVIEW	RLD
0	06/24/25	ISSUED FOR 100% CD SUBMITTAL	RLD



TITLE
CONSTRUCTION DETAILS

SHEET
A-7.1

PROPRIETARY INFORMATION:
THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO VERIZON WIRELESS SERVICES IS STRICTLY PROHIBITED.

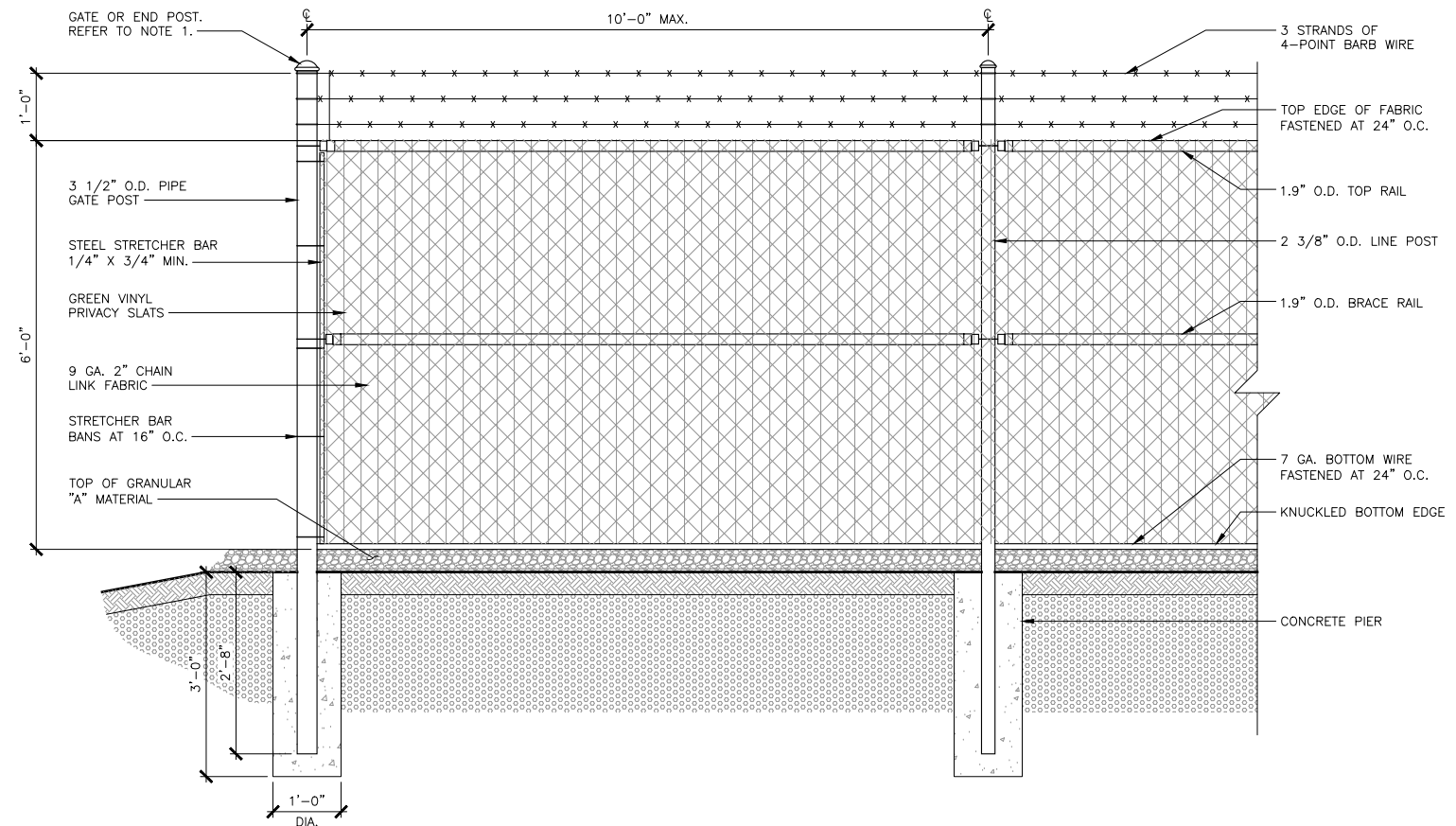
FENCING NOTES

- GATE POST, CORNER, END, OR PULL POST 3-1/8" NOMINAL (3.5" O.D.) SCHEDULE 40 XS PIPE, FOR GATE WIDTHS UP TO 6' OR 12' FOR DOUBLE SWING GATE PER ASTM-F1083.
- LINE POST: 2" (2-3/8" O.D.) 3.65LBS/LIN. FT. ASTM-F1083.
- TOP RAIL AND BRACE RAIL: 1 1/2" (1.9" O.D.) PIPE, 2.72 LBS/LIN. FT. ASTM-F1083. INSTALL BRACE AT ALL CORNER LOCATIONS AND ADJACENT TO GATES.
- GATE FRAME: 1 1/2" (1.9" O.D.) PIPE, 2.72 LBS/LIN. FT. ASTM-F1083.
- FABRIC SHALL BE TWO-INCH CHAIN LINK MESH NO. 9 GAUGE (0.148") WIRE. THE FABRIC SHALL HAVE A KNUCKLED FINISH FOR THE TOP SELVAGES. FABRIC SHALL CONFORM TO ASTM A-392 CLASS 1.
- TIE WIRE: MINIMUM 11 GAUGE GALVANIZED STEEL. PROVIDE A SINGLE WRAP OF FABRIC TIE AT POSTS, RAILS, AND AT TENSION WIRE BY HOG RINGS. MAXIMUM SPACING OF 24" O.C.
- TENSION WIRE: MINIMUM 7 GAUGE GALVANIZED STEEL.
- BARB WIRE: DOUBLE STRAND 12 GAUGE 1/2" O.D. TWISTED WIRE TO MATCH WITH FABRIC, 14 GAUGE 4PT. BARBS SPACED ON APPROXIMATE 5" CENTERS.
- BARB WIRE GATE GUARDS SHALL BE FITTED WITH DOME CAPS.
- BARB WIRE SUPPORT ARMS SHALL BE PRESSED STEEL COMPLETE WITH SET BOLT AND LOCK WIRE IN THE ARM.
- PROVIDE (2) 6" WIDE SWING OUT GATES (UNLESS NOTED OTHERWISE) NO PERSONNEL GATES ARE REQUIRED (UNLESS AS DIRECTED BY THE CONSTRUCTION MANAGER). GATES SHALL BE ABLE TO LOCK.
- GATE POSTS SHALL BE EXTENDED 12", INCLUDING DOME CAP, TO PROVIDE FOR ATTACHMENT OF BARB WIRE.
- GATE FRAMES SHALL HAVE A FULL HEIGHT VERTICAL BRACE AND A FULL WIDTH HORIZONTAL BRACE, SECURED IN PLACE BY USE OF GATE BRACE CLAMPS.
- GATE HINGES SHALL BE MERCHANTS METAL MODEL 64386 HINGE ADAPTER WITH MODEL 6409, 180° ATTACHMENT OR APPROVED EQUAL.
- GATE LATCH: 1 3/8" O.D. PLUNGER ROD WITH MUSHROOM TYPE CATCH.
- A 6" BY 1/2" DIAMETER EYEBOLT, TO HOLD TENSION WIRE, SHALL BE PLACED AT LINE POSTS.
- STRETCHER BARS SHALL BE 3/16" OR HAVE EQUIVALENT CROSS-SECTIONAL AREA.
- ALL POSTS EXCEPT GATE POSTS SHALL HAVE A COMBINATION CAP AND BARB WIRE SUPPORTING ARM.
- ALL CAPS SHALL BE MALLEABLE IRON, DOME OR ACORN SHAPED AS REQUIRED BY PIPE SIZE.
- OTHER HARDWARE MAY INCLUDE BUT NOT BE LIMITED TO THE TIE CLIPS, BAND CLIPS, AND TENSION BAND CLIPS.
- WHERE THE USE OF CONCERTINA HAS BEEN SPECIFIED, 24" DIAMETERS COIL, BARBED TAPE, STAINLESS STEEL, CYCLONE FENCE MODEL G8P TO TYPE III SHALL BE FURNISHED, IT SHALL BE SUPPORTED ABOVE THE TOP RAIL BY USE OF (6) BARB WIRE ARMS POSITIONED ATOP EACH LINE/CORNER POST.
- UNLESS NOTED OTHERWISE, ALL CHAIN LINK FENCING COMPONENTS MUST BE HOT DIPPED GALVANIZED.

24"x36" SCALE: N.T.S.
11"x17" SCALE: N.T.S.

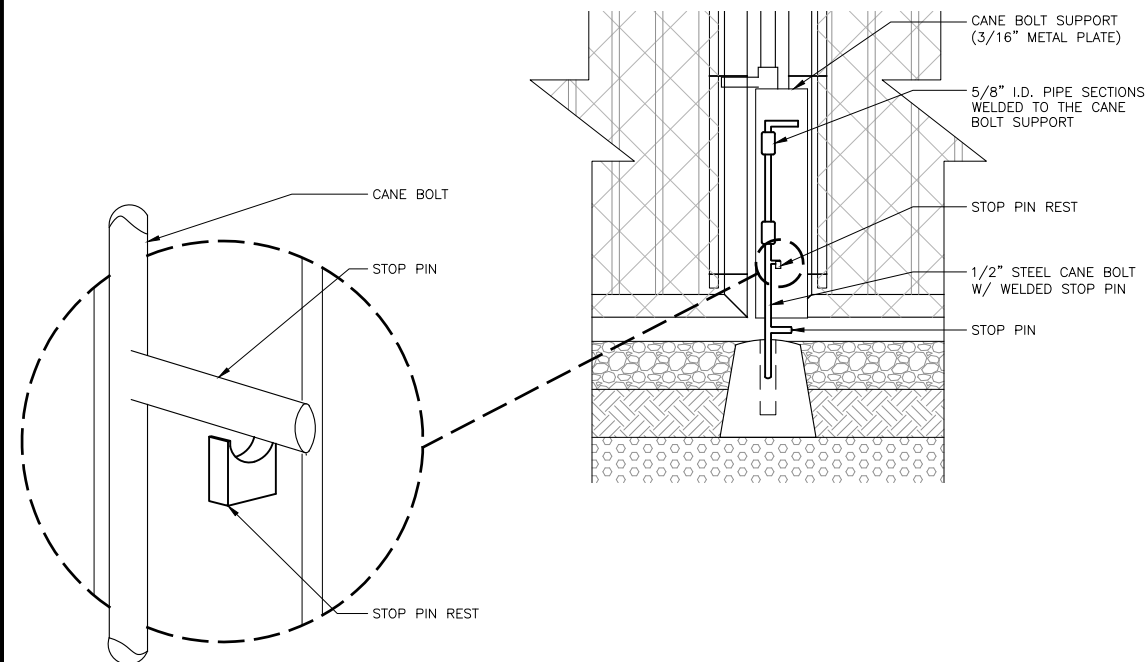
FENCE NOTES 4

NOTE:
SEE FENCE GROUNDING DETAILS 4 & 5/E-5.



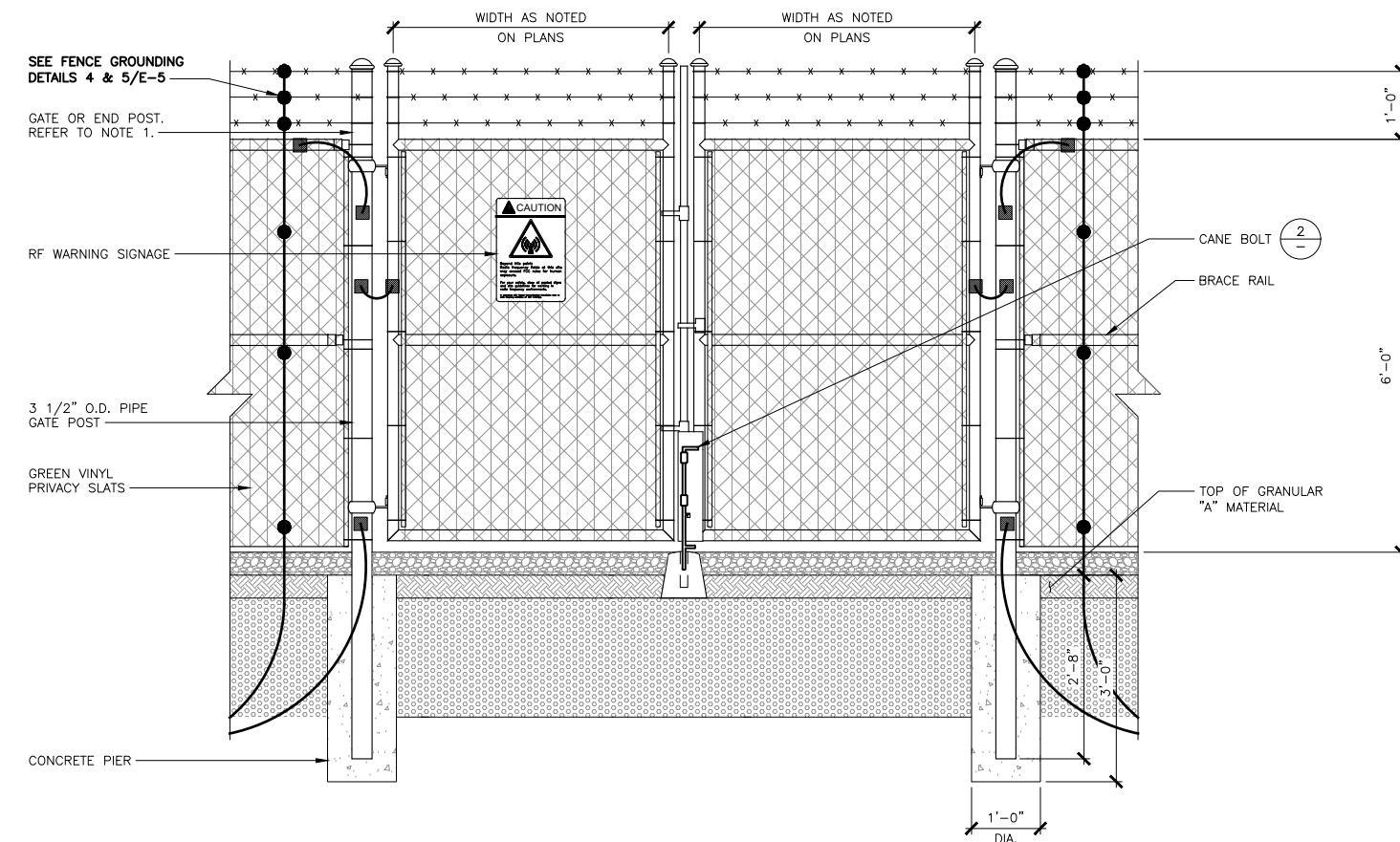
12"x24" SCALE: 3/4" = 1'-0"
11"x17" SCALE: 3/8" = 1'-0"

CHAIN LINK FENCE W/ PRIVACY SLATS 3



24"x36" SCALE: N.T.S.
11"x17" SCALE: N.T.S.

CANE BOLT 2



12"x24" SCALE: 3/4" = 1'-0"
11"x17" SCALE: 3/8" = 1'-0"

CHAIN LINK GATE W/ PRIVACY SLATS 1



LAND SURVEYING
ENGINEERING
ARCHITECTURE
DRONE INSPECTION
REAL ESTATE SERVICES

- TOWER OWNER DRAWINGS
- CARRIER DRAWINGS

STACKER BUTTE ALT 1

UNASSIGNED ADDRESS
KLUCKITAT, WA 98635
KLUCKITAT COUNTY

REVISIONS

REV.	DATE	DESCRIPTION	BY
A	12/06/24	ISSUED FOR 90% CD REVIEW	RLD
0	06/24/25	ISSUED FOR 100% CD SUBMITTAL	RLD

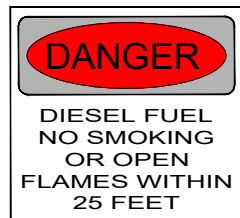
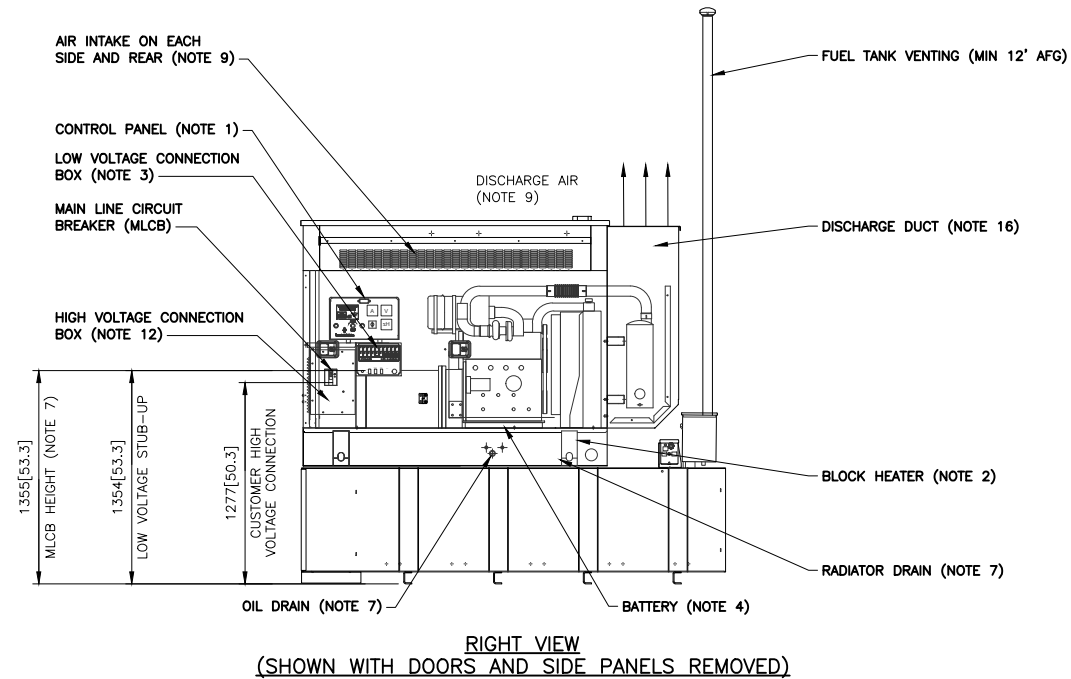
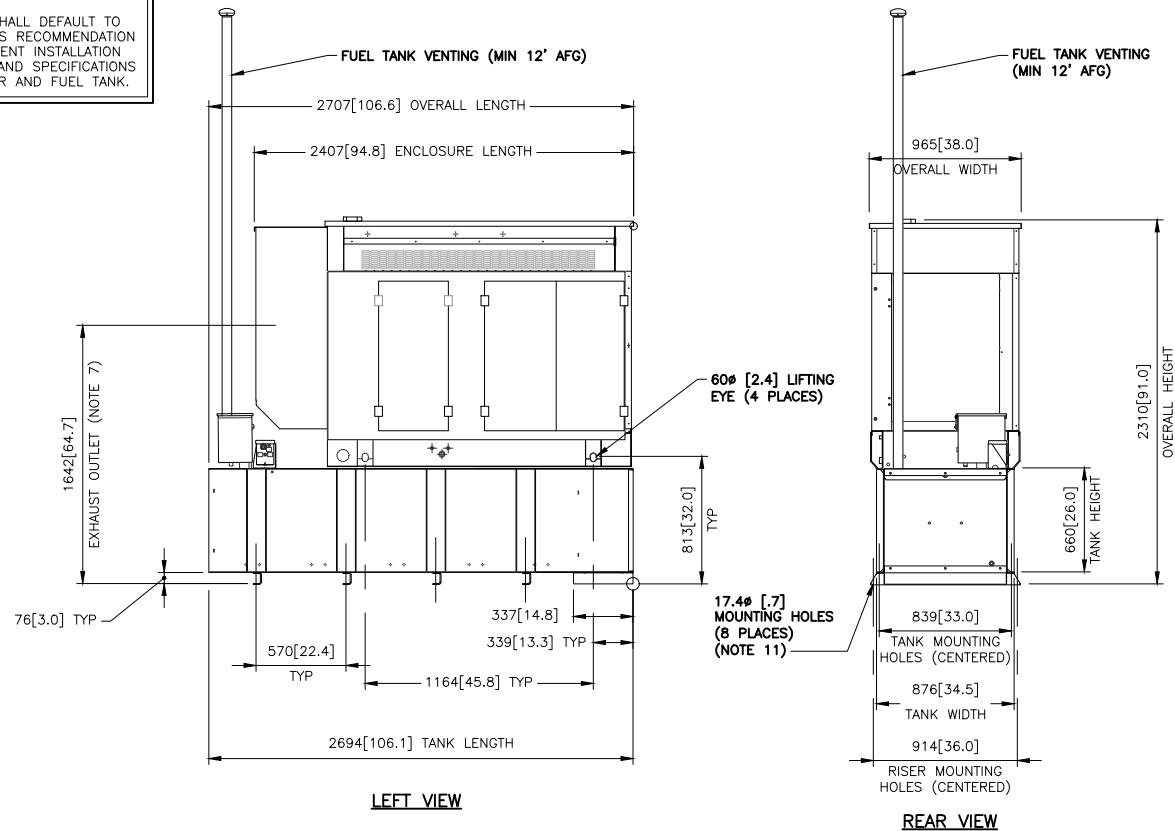


TITLE
CONSTRUCTION DETAILS

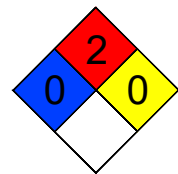
SHEET
A-7.2

PROPRIETARY INFORMATION:
THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO VERIZON WIRELESS SERVICES IS STRICTLY PROHIBITED.

NOTE:
CONTRACTOR SHALL DEFAULT TO MANUFACTURERS RECOMMENDATION FOR MOST RECENT INSTALLATION INSTRUCTIONS AND SPECIFICATIONS FOR GENERATOR AND FUEL TANK.



RED LETTERS (1/2" STROKE, 4" LETTERS) WHITE BACKGROUND
DANGER SIGNAGE

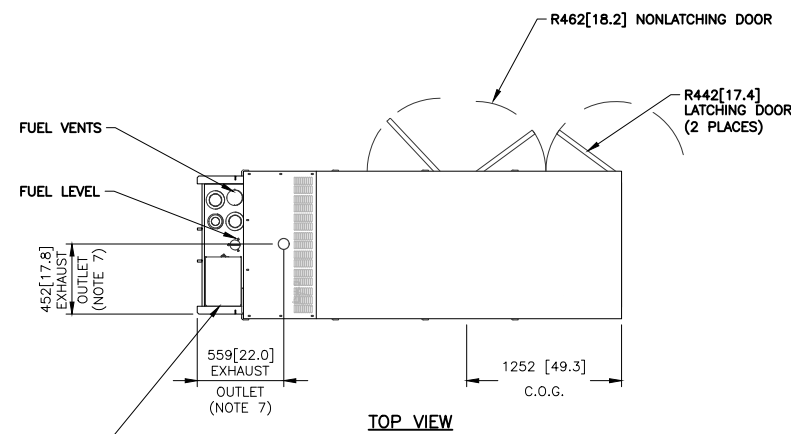


12" X 12", 60 MIL. THICK WHITE PLASTIC
DANGER SIGNAGE

SIGNAGE NOTES	
SIGNAGE REQUIREMENTS	
MATERIAL	SEE BELOW SIGN
COLOR & LETTERING	PLACARDS SHALL BE IN ACCORDANCE WITH NFPA 704
LOCATION	SIGN SHOULD BE PLACED ON FUEL TANK
CONTRACTOR TO PROVIDE SIGNAGE PER VERIZON WIRELESS STANDARDS	
1.	ALL SIGNS SHALL BE UV-RESISTANT FOR OUTDOOR USE.
2.	ALL SIGNS SHALL HAVE A MINIMUM 5-YEAR GUARANTEE WITHOUT SHOWING ANY SIGNS OF FADING OR DEGRADATION.
3.	ALL SIGNS SHALL HAVE ROUNDED CORNERS WITH PRE-DRILLED HOLES AND WEATHERPROOF PRESSURE SENSITIVE ADHESIVE BACKING FOR MOUNTING.
4.	ALL SIGNS SHALL BE PROVIDED PER THEIR SPECIFIC REQUIREMENTS, UNLESS OTHERWISE SPECIFIED DUE TO SIZE RESTRAINTS OR LANDLORD REQUIREMENTS.

NOTES:

- CONTROL PANEL INCLUDES BATTERY CHARGER WITH THREE PRONG CORD.
- 1500W 120 VAC ENGINE BLOCK HEATER WITH THREE PRONG CORD.
- CONNECTION POINTS FOR CONTROL WIRES PROVIDED IN THE LOW VOLTAGE CONNECTION BOTTOM HAS KNOCKOUTS FOR 1/2" AND 3/4" CONDUIT FITTINGS. USE LOW VOLTAGE STUB-UP AREA).
- BATTERY (12 VOLT NEGATIVE GROUND SYSTEM).
- MAIN LINE CIRCUIT BREAKER (MLCB) (MLCB HEIGHT MAY VARY WITH CB SELECTION) AC LOAD LEADS CONNECT DIRECTLY TO BOTTOM OF BREAKER.
- CENTER OF GRAVITY & WEIGHT MAY SHIFT SLIGHTLY DUE TO UNIT OPTIONS.
- ENGINE SERVICE CONNECTIONS:
INLET DIESEL = 3/8" NPT
RETURN DIESEL = 3/8" NPT
OIL DRAIN = 1/2" NPT
RADIATOR DRAIN = 1/2" NPT
EXHAUST OUTLET = 2.5" I.D.
- STUB-UPS: BASE TANK REQUIRES ALL STUB-UPS TO BE IN THE REAR TANK STUB-UP AREA.
- GENERATOR SET MUST BE INSTALLED SUCH THAT FRESH COOLING AIR IS AVAILABLE AND DISCHARGE AIR IS NOT RECIRCULATED. SEE SPEC SHEET FOR MINIMUM AIR FLOW AND MAXIMUM RESTRICTION REQUIREMENTS.
- BOTTOM OF GENERATOR SET MUST BE CLOSED TO PREVENT PEST INTRUSION AND RECIRCULATION OF DISCHARGE AIR AND/OR IMPROPER COOLING AIR FLOW.
- BOLTS OR STUDS USED TO MOUNT UNIT TO PAD SHALL BE 5/8-11 GRADE 5. USE STANDARD SAE TORQUE SPECS.
- HIGH VOLTAGE STUB-UP AREA INCLUDES THE AC LOAD LEAD CONNECTIONS TO MLCB, NEUTRAL CONNECTION AND AUXILIARY 120/240V CONNECTION.
- 190 GALLON USEABLE CAPACITY BASKET STANDARD WITH GENERATOR.
- IT IS THE RESPONSIBILITY OF THE INSTALLATION TECHNICIAN TO ENSURE THAT THE GENERATOR INSTALLATION COMPLIES WITH ALL APPLICABLE CODES, STANDARDS, AND REGULATIONS.
- UNIT IS SHIPPED WITH FUEL SUPPLY AND RETURN LINES DISCONNECTED AND PLUGGED BETWEEN ENGINE AND FUEL TANK. THIS HAS BEEN DONE TO FACILITATE PRESSURE TESTING OF THE TANK IN THE FIELD. FOR INFORMATION REGARDING CONNECTING THE FUEL SUPPLY AND RETURN LINES PRIOR TO START UP, SEE THE FUEL TANK FIELD TESTING PROCEDURE (0E5082) SUPPLIED IN THE TANK LOOSE VENTS KIT, WHICH IS SHIPPED WITH THIS GENERATOR.
- SEE DRAWING 0C3850 FOR DISCHARGE DUCT REMOVAL. REMOVAL OF DUCT WILL PROVIDE ACCESS TO MUFFLER FOR SERVICING.
- GENERATOR MUST BE GROUNDED.



SPECIFICATIONS (GENERATOR)	
GENERATOR:	1641 [745]
ATTENUATED ENCLOSURE:	510 [231]
WEIGHT:	KG [LBS]
DIMENSIONS:	MM [INCHES]

TANK SPECIFICATIONS	
TANK P/N	10000016357
TOTAL TANK CAPACITY	757L [200 GAL]
USABLE TANK CAPACITY	720L [190 GAL]
DRY WEIGHT	420 KG [920 LBS]
TOTAL WEIGHT	1036 KG [1021 LBS]



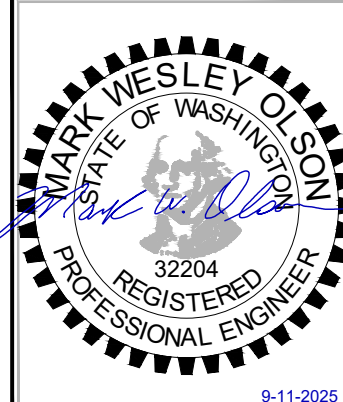
LAND SURVEYING
ENGINEERING
ARCHITECTURE
DRONE INSPECTION
REAL ESTATE SERVICES

- TOWER OWNER DRAWINGS
- CARRIER DRAWINGS

STACKER BUTTE ALT 1

UNASSIGNED ADDRESS
KLUCKITAT, WA 98635
KLUCKITAT COUNTY

REVISIONS				
REV.	DATE	DESCRIPTION	BY	
A	12/06/24	ISSUED FOR 90% CD REVIEW	RLD	
0	06/24/25	ISSUED FOR 100% CD SUBMITTAL	RLD	



TITLE
GENERATOR DETAILS

SHEET
A-8

PROPRIETARY INFORMATION:
THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO VERIZON WIRELESS SERVICES IS STRICTLY PROHIBITED.

- INSTALLATION OF SECONDARY POWER AND CONNECTION TO METER SHALL BE COMPLETED IN COMPLIANCE WITH NATIONAL ELECTRIC CODE, NFPA 10, AND THE STATE OF WASHINGTON LAWS, RULES AND REGULATIONS FOR INSTALLING ELECTRIC WIRES & EQUIPMENT. ALL LATEST ISSUE, AND WITH SPECIFICATIONS PER A.S.T.M. B 231, B 400, I.C.E.A S651-401, I.C.E.A. P81-570, & LOCAL PUD.
- PROVIDE A METER BASE PER LOCAL UTILITY STANDARDS. MOUNT ON SIDE OF OWNER FURNISHED BACKBOARD.
- UNDERGROUND CONDUIT SHALL BE RIGID POLYVINYL CHLORIDE CONDUIT: SCHEDULE 40 CONFORMING TO UL ARTICLE 651: WESTERN PLASTICS OR CARBON MANUFACTURER. COUPLINGS SHALL BE SLIP-ON SOLVENT SEALED T PIPE: SOLVENT, WESTERN TYPE COMPATIBLE WITH PVC DUCT. ALL BENDS SHALL BE "WIDE SWEEP" TYPE WITH A 30" MINIMUM RADIUS. ALL CONDUIT UNDER ROADS SHALL BE RGS, (OR PVC ENCASED IN 8"x18" RED CONCRETE DUCTBANK).
- CONDUIT USED INDOORS SHALL BE E.M.T. AND RIGID GALVANIZED STEEL FOR OUTDOORS. COUPLINGS SHALL BE RIGID STEEL AND COMPRESSION TYPE FOR E.M.T. SET SCREW FITTINGS ARE NOT PERMITTED. FOR ALL STUB-UPS, USE RIGID GALVANIZED STEEL CONDUIT.
- WIRE AND CABLE SHALL BE OF THE TYPE AND SIZE AS REQUIRED BY NEC. THERE WILL BE NO SPLICES ALLOWED. PROVIDE HDPE PULLING HAND HOLES AS NEEDED.
- CONTRACTOR SHALL PROVIDE TEST OF THE GROUNDING SYSTEM BY A CERTIFIED TESTING AGENT. PROVIDE INDEPENDENT TEST RESULTS TO VERIZON WIRELESS FOR REVIEW. GROUNDING SYSTEM RESISTANCE TO GROUND SHALL NOT EXCEED 5 OHMS. ALL ABOVE GRADE INTERIOR GROUNDING CONNECTORS SHALL BE DOUBLE LUG COMPRESSION TYPE. ALL BELOW GRADE AND EXPOSED CONNECTIONS TO PERMANENT EQUIPMENT AND FIXED BUILDING ELEMENTS SHALL BE CADWELD TYPE. CARE SHALL BE TAKEN TO REVIEW CONNECTION LOCATIONS AND MATERIAL TYPES TO AVOID POSSIBLE GALVANIC CORROSION. ALL EXPOSED GROUNDING CONNECTIONS TO BE COATED WITH ANTI-CORROSIIVE AGENT SUCH AS "NO-OXY", "NOALX" OR "PENETROX", OR APPROVED EQUAL. VERIFY PRODUCT WITH VERIZON WIRELESS PROJECT MANAGER. ALL BOLDS, WASHERS, AND NUTS USED ON GROUNDING CONNECTIONS SHALL BE STAINLESS STEEL.
- ALL EXTERIOR GROUND BARS SHALL BE COATED WITH ANTI-CORROSIIVE AGENT SUCH AS LPS-3 OR AS PER NOT 6 ABOVE.
- ALL JUNCTION AND OUTLET BOXES TO BE LABELED WITH KROY TAPE OR APPROVED EQUAL. DESIGNATION ALL CIRCUIT NUMBERS CONTAINED IN EACH BOX.
- CONTRACTOR TO ENSURE ILC PROVIDED WITH (2) INTERNAL TVSS.
- CONTRACTOR SHALL COORDINATE WITH SITE SURVEYOR TO LOCATE EXISTING UNDERGROUND UTILITIES. WHEREVER POTENTIAL CONFLICTS/INTERFERENCES EXIST, HAND EXCAVATE TO AVOID DAMAGE. CONTACT ALL UTILITIES TO LOCATE UNDERGROUND PIPING IN PUBLIC ROW.
- VERIFY THAT AIC OF THE UTILITY DOES NOT EXCEED THE AIC RATING OF THE PROVIDED EQUIPMENT SHELTER PACKAGE. IF OVER 10KAIC, PROVIDE FUSIBLE SERVICE ENTRANCE SWITCH AND CONFIRM LOWERING AIC TO ACCEPTABLE LEVELS.

- UTILITY POINTS OF SERVICE AND WORK / MATERIALS SHOWN ARE BASED UPON PRELIMINARY INFORMATION PROVIDED BY THE UTILITY COMPANIES AND ARE FOR BID PURPOSES ONLY.
- CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK / MATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY COMPANY ENGINEERING PLANS AND SPECIFICATIONS ONLY. CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT, PULL ROPES, CABLES, PULL BOXES, CONCRETE ENCASUREMENT OF CONDUIT (IF REQUIRED), TRANSFORMER PAS, BARRIERS, POLE RISERS, TRENCHING, BACKFILL, PAY ALL UTILITY COMPANY FEES AND INCLUDE ALL REQUIREMENTS IN SCOPE OF WORK.

ABBREVIATIONS	
AWG	AMERICAN WIRE GAUGE
BCW	BARE COPPER WIRE
DWG	DRAWING
EMT	ELECTRICAL METALLIC TUBING
GEN	GENERATOR
IGR	INTERIOR GROUND RING (HALO)
IMC	INTERMEDIATE METALLIC CONDUIT
MGB	MASTER GROUND BAR
PCS	PERSONAL COMMUNICATION SYSTEM
RGS	RIGID GALVANIZED STEEL
RWY	RACEWAY
TYP	TYPICAL

PANEL NAME:		VZW ILC		MODEL NUMBER:		INTERSECT AA300G-1PH-3R									
RATED VOLTAGE:		240	120	VOLTS		PHASE/WIRE:		1	3						
MAIN BREAKER:		200	AMPS		BUS RATING:		200	KEY DOOR LATCH:		YES					
MOUNT:		SURFACE		NEUTRAL BAR:		YES	HINGED DOOR:		YES						
ENCLOSURE TYPE:		NEMA 3R		AIC:		65K									
POS	USAGE FACTOR	BUS AMPS		LOAD	POLES	AMPS	L1	L2	AMPS	POLES	LOAD	BUS AMPS		USAGE FACTOR	POS
		L1	L2									L1	L2		
1	1	18									FUTURE RECTIFIER	18		1	2
3	1		18	RECTIFIER	2	30A			30A	2	FUTURE RECTIFIER		18	1	4
5	1	18									FUTURE RECTIFIER	18		1	6
7	1		18	RECTIFIER	2	30A			30A	2	FUTURE RECTIFIER		18	1	8
9	1	18												1	10
11	1		18	RECTIFIER	2	30A								1	12
13	1	18													14
15	1		18	RECTIFIER	2	30A									16
17	1.25	12		GFI RECEPT./LIGHT	1	20A									18
19	1.25		12	BLOCK HEATER	1	20A									20
21	1.25	5		BATT. CHARGER	1	20A									22
23															24
25															26
27															28
29															30
		93.25	87	:SUB TOTAL AMPS						SUB TOTAL AMPS:		36	36		
										FACTORED TOTAL AMPS:		129.25	123		

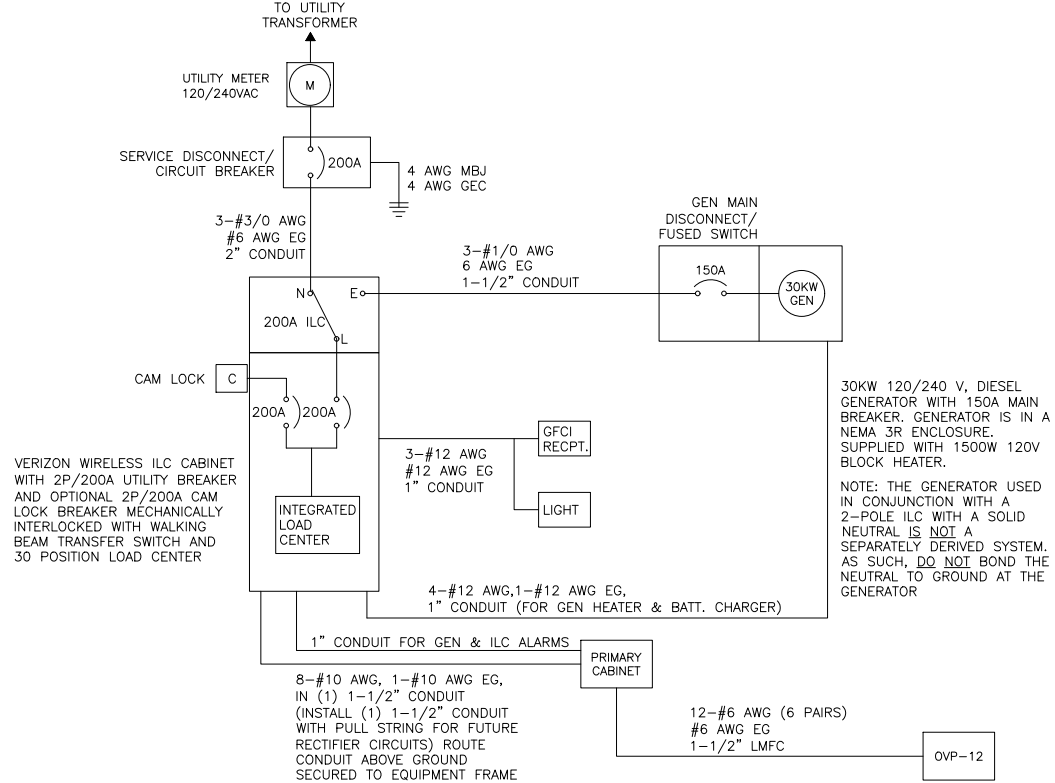
- NOTES:
- ALL CONDUCTORS ARE TYPE THWN (75°C) COPPER.
 - MAXIMUM LENGTH OF RUN FOR RECTIFIER CIRCUITS IS 50FT.
 - INTERSECT/ GENERAC INTEGRATED LOAD CENTER INCLUDES 200 AMP MAIN DISCONNECT AND TRANSFER SWITCH FOR PORTABLE OR PERMANENT GENERATOR.
 - RECTIFIER LOADS ARE CONSIDERED TO BE NON-CONTINUOUS.
 - IF ADDITIONAL FUTURE LOADS ARE ADDED WHICH CAUSE TOTAL DEMAND TO EXCEED GENERATOR BREAKER SIZE, BACKUP POWER SYSTEM SHALL BE EVALUATED AND UPGRADED AS NECESSARY.

24"x36" SCALE: N.T.S.
11"x17" SCALE: N.T.S.

GENERAL NOTES 3

24"x36" SCALE: N.T.S.
11"x17" SCALE: N.T.S.

VERIZON WIRELESS PANEL SCHEDULE 2



ELECTRICAL ONE LINE DIAGRAM

- NOTES:
- ALL EQUIPMENT SHALL BE NEMA 3R RATED.
 - ALL EQUIPMENT SHALL BE LIGHTNING PROTECTED IN ACCORDANCE WITH TIA-222-G AND VERIZON WIRELESS STANDARDS.
 - CONDUCTOR SIZES AND DISTANCES HAVE BEEN SIZED FOR 3% MAX VOLTAGE DROP (TOTAL SYSTEM VOLTAGE DROP ON BOTH FEEDERS AND BRANCH CIRCUITS TO THE FARTHEST DEMAND SHALL NOT EXCEED 5%).
 - WIRE SIZING AND MAXIMUM DISTANCE FROM GENERATOR TO ILC ASSUMES POWER FACTOR OF 0.9.
 - BELOW GRADE CONDUIT SHALL BE SCHEDULE 80 PVC. ABOVE GRADE CONDUIT SHALL BE GALVANIZED RIGID CONDUIT. BELOW GRADE PVC CONDUIT SHALL TRANSITION TO GRC PRIOR TO RISING ABOVE GRADE. ALL BENDS SHALL HAVE A MINIMUM 24" RADIUS. ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT. VERIFY CONDUIT TYPE WITH LOCAL CONSTRUCTION MANAGER AND ADJUST IF NECESSARY. ALL CONDUIT SHALL MEET NEC, STATE, AND LOCAL CODE REQUIREMENTS AS REQUIRED.

24"x36" SCALE: N.T.S.
11"x17" SCALE: N.T.S.

ONE-LINE DIAGRAM 1



LAND SURVEYING
ENGINEERING
ARCHITECTURE
DRONE INSPECTION
REAL ESTATE SERVICES

- TOWER OWNER DRAWINGS
- CARRIER DRAWINGS

STACKER BUTTE ALT 1

UNASSIGNED ADDRESS
KLUCKITAT, WA 98635
KLUCKITAT COUNTY

REVISIONS

REV.	DATE	DESCRIPTION	BY
A	12/06/24	ISSUED FOR 90% CD REVIEW	RLD
0	06/24/25	ISSUED FOR 100% CD SUBMITTAL	RLD



9-11-2025

TITLE
ONE-LINE DIAGRAM, PANEL SCHEDULE
& GENERAL NOTES

SHEET
E-1

PROPRIETARY INFORMATION:
THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO VERIZON WIRELESS SERVICES IS STRICTLY PROHIBITED.

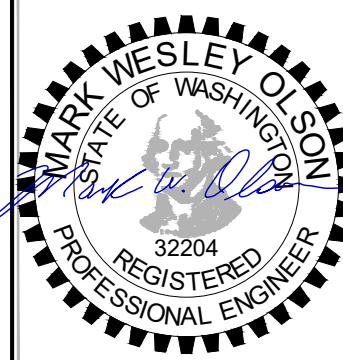
- TOWER OWNER DRAWINGS
- CARRIER DRAWINGS

STACKER BUTTE ALT 1

UNASSIGNED ADDRESS
KLIKITAT, WA 98635
KLIKITAT COUNTY

REVISIONS

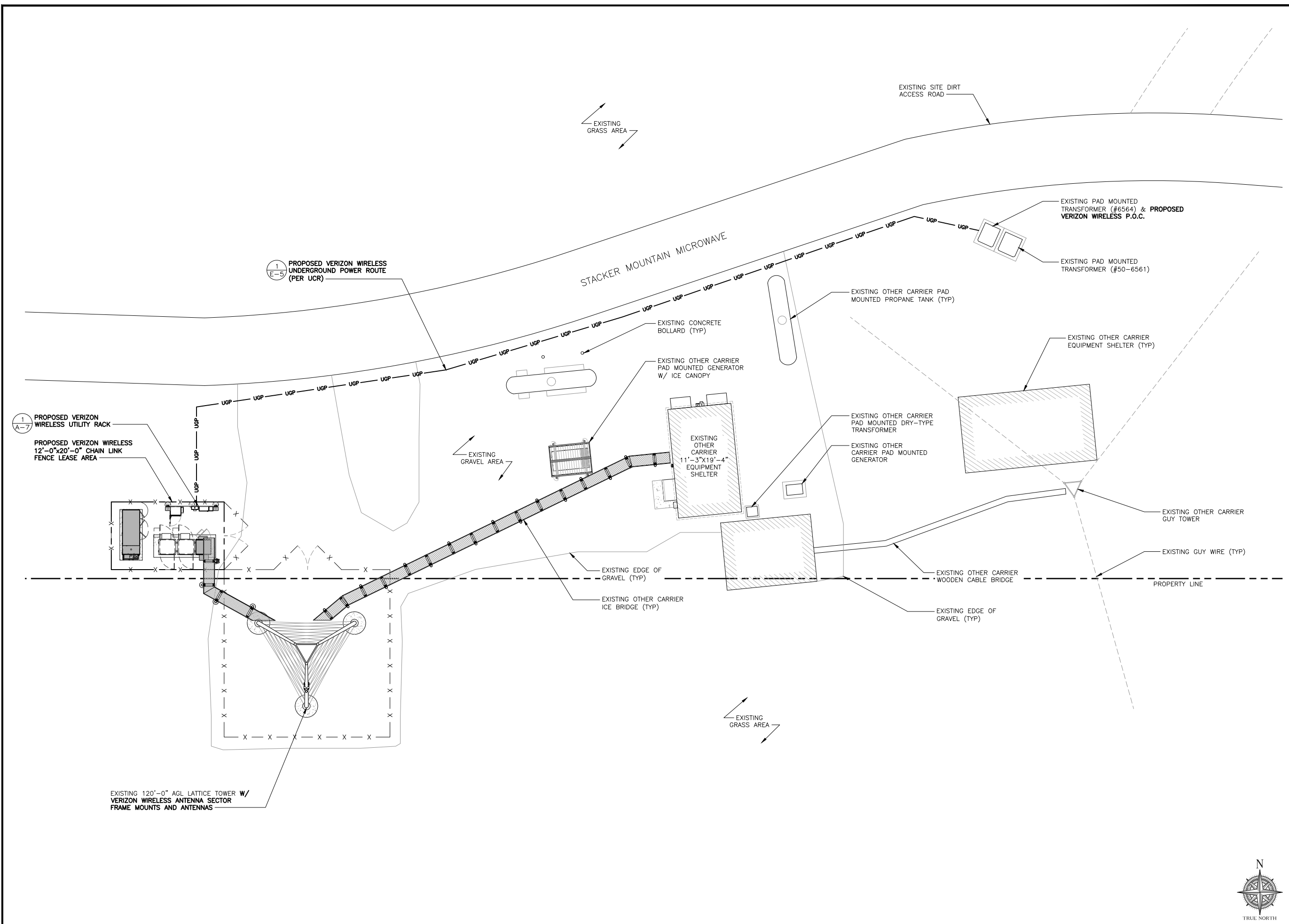
REV.	DATE	DESCRIPTION	BY
A	12/06/24	ISSUED FOR 90% CD REVIEW	RLD
0	06/24/25	ISSUED FOR 100% CD SUBMITTAL	RLD



TITLE
UTILITY ROUTING PLAN

SHEET
E-2

PROPRIETARY INFORMATION:
THE INFORMATION CONTAINED IN THIS SET OF
CONSTRUCTION DOCUMENTS IS PROPRIETARY BY
NATURE. ANY USE OR DISCLOSURE OTHER
THAN THAT WHICH RELATES TO VERIZON
WIRELESS SERVICES IS STRICTLY PROHIBITED.



GENERAL NOTES:

1. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS.
2. GROUND ALL ANTENNA BASES, FRAMES, CABLE RUNS, AND OTHER METALLIC COMPONENTS USING GROUND WIRES AND CONNECT TO SURFACE MOUNTED BUS BARS. FOLLOW ANTENNA AND BTS MANUFACTURER'S PRACTICES FOR GROUNDING REQUIREMENTS. GROUND COAX SHIELD AT BOTH ENDS AND EXIT FROM TOWER OR POLE USING MFR'S PRACTICES.
3. ALL GROUND CONNECTIONS SHALL BE CADWELDED. ALL WIRES SHALL BE COPPER THHN/THWN. ALL GROUND WIRE SHALL BE GREEN INSULATED WIRE ABOVE GROUND.
4. CONTRACTOR TO VERIFY AND TEST GROUND SOURCE, GROUNDING AND OTHER OPERATIONAL TESTING WILL BE WITNESSED BY CARRIER, REPRESENTATIVE.
5. REFER TO DIVISION 16 GENERAL ELECTRIC; GENERAL ELECTRICAL PROVISION AND COMPLY WITH ALL REQUIREMENTS OF GROUNDING STANDARDS.
6. ELECTRICAL CONTRACTOR TO PROVIDE DETAILED DESIGN OF GROUNDING SYSTEM, AND RECEIVE APPROVAL OF DESIGN BY AUTHORIZED CARRIER, REPRESENTATIVE, PRIOR TO INSTALLATION OF GROUNDING SYSTEM. PHOTO DOCUMENT ALL CADWELDS AND GROUND RINGS.
7. NOTIFY CONSTRUCTION MANAGER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE SOIL CONDITIONS.
8. USE PANI SCHEME FOR LOADING GROUNDS ON MGB AS DISCUSSED IN NSTD 119, 33 & 36.

GROUND ROD NOTES:

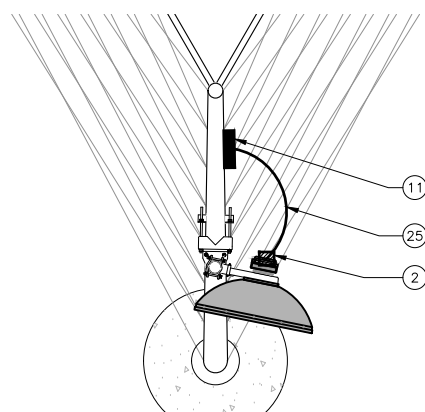
1. ELECTRICAL CONTRACTOR SHALL ORDER GROUND RESISTANCE TESTING ONCE THE GROUND SYSTEM HAS BEEN INSTALLED; A QUALIFIED INDIVIDUAL, UTILIZING THE FALL OF POTENTIAL METHOD, SHOULD PERFORM THE TEST. THE REPORT WILL SHOW THE LOCATION OF THE TEST AND CONTAIN NO LESS THAN 9 TEST POINTS ALONG THE TESTING LINE, GRAPHED OUT TO SHOW THE PLATEAU.
2. POINT GROUND TEST OR 3 POINT 62% TESTS WILL NOT BE ACCEPTED AS ALTERNATIVES TO THE AFORE MENTIONED GROUND TESTS. TEST SHALL BE PERFORMED WHILE THE COUNTERPOISE IS ISOLATED FROM THE A/C SYSTEM GRIDS AND EXISTING COMMUNICATIONS FACILITY.

KEY NOTES:

- 1 CADWELD (TYP.) SEE SHEET E-4.
- 2 MECHANICAL CONNECTION (TYP.) SEE SHEET E-4.
- 3 #2 AWG EQUIPMENT GROUND RING LOCATED 30" BELOW FINISH GRADE. SEE SHEET E-4.
- 4 COPPER GROUND ROD LOCATED EVERY 10'-0" TO 15'-0". SEE SHEET E-4.
- 5 GROUND INSPECTION AND TEST WELL. SEE SHEET E-4.
- 6 TOWER GROUND BAR AT BOTTOM OF TOWER. SEE SHEET E-4.
- 7 #2 AWG GROUND FROM ICE BRIDGE\H-FRAME POSTS TO TIE INTO GROUND RING.
- 8 EXISTING TOWER GROUND RING (V.I.F.).
- 9 #2 AWG GROUND FROM EQUIPMENT GROUND RING TO COMPOUND GROUND RING (V.I.F.) (TYP OF 4 PLACES).
- 10 #2 AWG GROUND FROM EQUIPMENT GROUND RING TO TOWER GROUND RING (V.I.F.) (TYP OF 2 PLACES).
- 11 ANTENNA GROUND BAR AT ANTENNA LEVEL TIED INTO EXISTING LOWER TOWER GROUND BAR
- 12 #6 AWG ANTENNA MOUNT GROUND TO ANTENNA GROUND BAR (TYP). SEE SHEET E-4.
- 13 #6 AWG OVP GROUND TO ANTENNA GROUND BAR (TYP). SEE SHEET E-4.
- 14 #6 AWG RRU MOUNT GROUND TO ANTENNA GROUND BAR (TYP). SEE SHEET E-4.
- 15 #6 AWG GPS ANTENNA MOUNT GROUND TO GROUND BAR (TYP). SEE SHEET E-4.
- 16 EQUIPMENT GROUND BAR. SEE SHEET E-4.
- 17 #6 AWG EQUIPMENT CABINET GROUND TO EQUIPMENT GROUND BAR (TYP). SEE SHEET E-4.
- 18 GROUND EQUIPMENT GROUND BAR GROUND TO GROUND RING (TYP OF 2 PLACES). SEE SHEET E-4.
- 19 #2 AWG GROUND FROM GENERATOR TO GROUND EQUIPMENT GROUND RING (TYP OF 2 PLACES). SEE SHEET E-4.
- 20 #2 AWG GROUND FROM POWER METER TO ISOLATED GROUND ROD. SEE SHEET E-4.

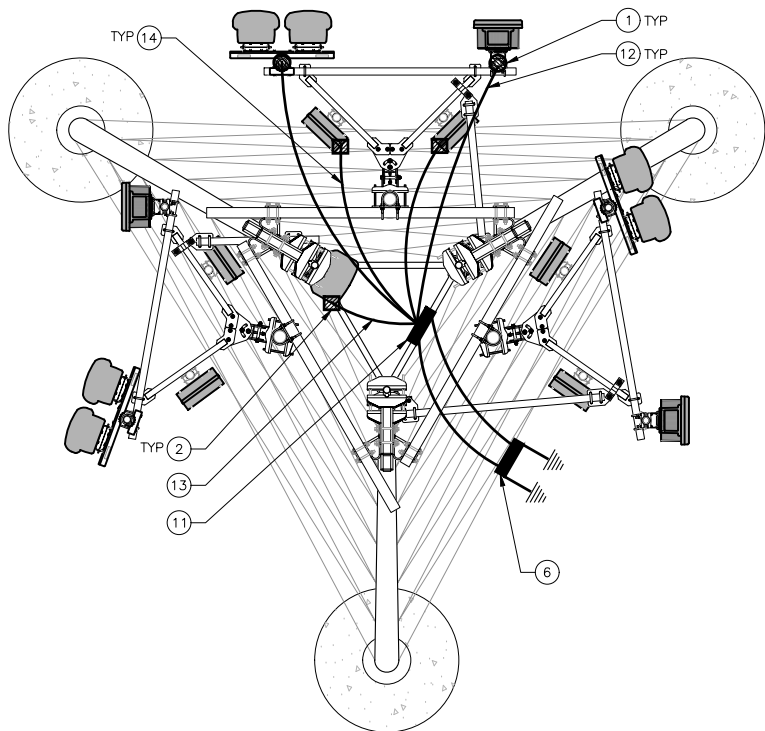
- 21 EXISTING COMPOUND GROUND RING (V.I.F.).
- 22 #2 AWG GROUND FROM FENCE VERTICAL POST TO GROUND RING (TYP). SEE SHEETS E-4 & E-5.
- 23 GROUND ACCESS GATE SWING TO FENCE VERTICAL POST (TYP). SEE SHEETS E-4 & E-5.
- 24 GROUND FROM ACCESS GATES TO GROUND RING (TYP). SEE SHEETS E-4 & E-5.
- 25 #6 AWG ODU UNIT MOUNT GROUND TO ANTENNA GROUND BAR (TYP). SEE SHEET E-4.

SYMBOL	DESCRIPTION
	COPPER GROUND ROD
	CADWELD
	MECHANICAL CONNECTION
	TEST WELL
	GROUND BAR
	GROUND WIRE
	#2 AWG GROUND RING
	FIELD VERIFY & TIE INTO EXISTING GROUNDING SYSTEM
	EXISTING #2 AWG GROUND RING, V.I.F.



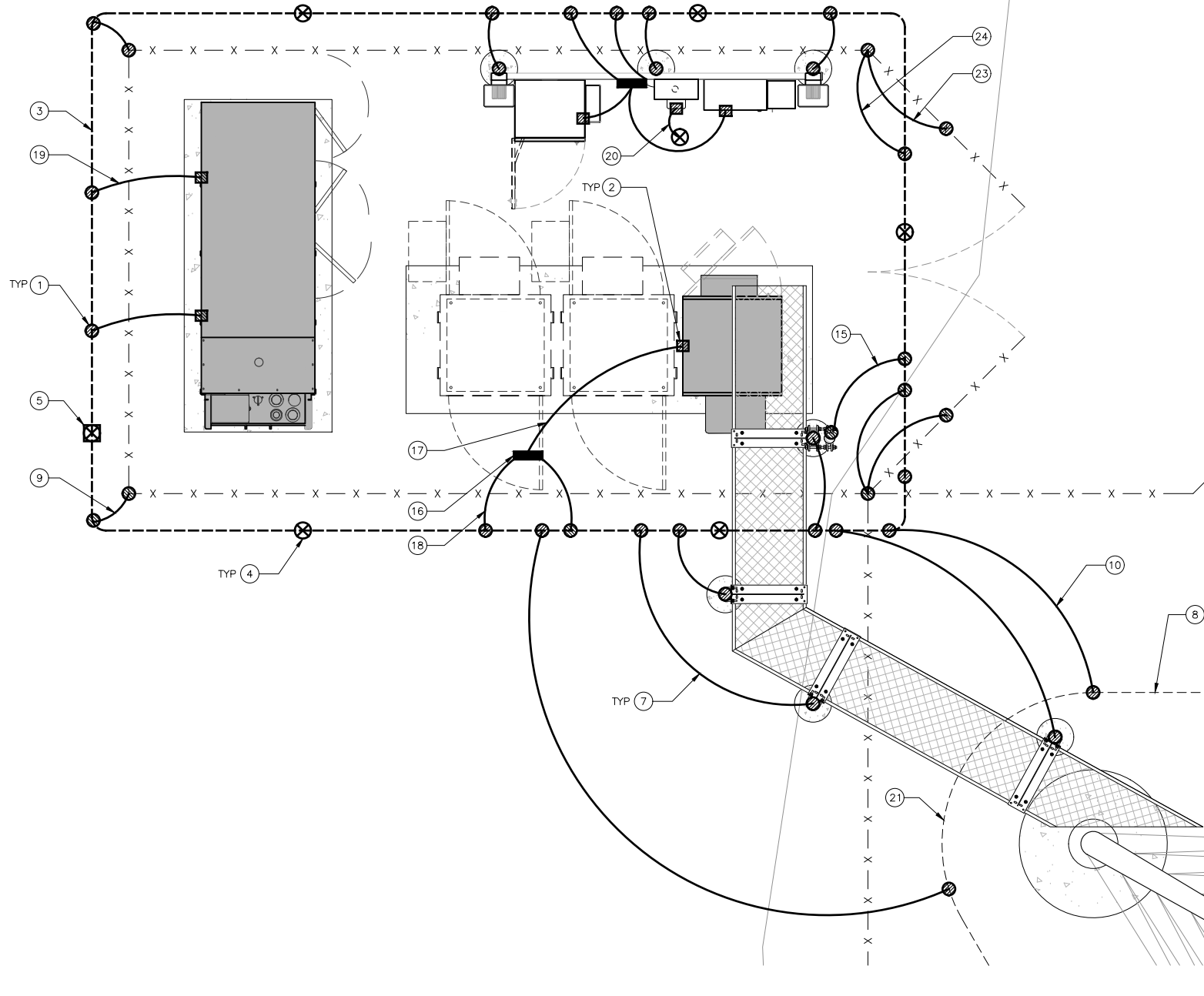
MW ANTENNA PLAN
65.0' AGL RAD CENTER

NOTE:
ANTENNA GROUNDING ONLY SHOWN FOR (1) SECTOR FOR CLARITY.



24"x36" SCALE: 3/8" = 1'-0"
11"x17" SCALE: 3/16" = 1'-0"

ANTENNA SCHEMATIC GROUNDING PLAN 2



24"x36" SCALE: 1/2" = 1'-0"
11"x17" SCALE: 1/4" = 1'-0"

EQUIPMENT SCHEMATIC GROUNDING PLAN 1



LAND SURVEYING
ENGINEERING
ARCHITECTURE
DRONE INSPECTION
REAL ESTATE SERVICES

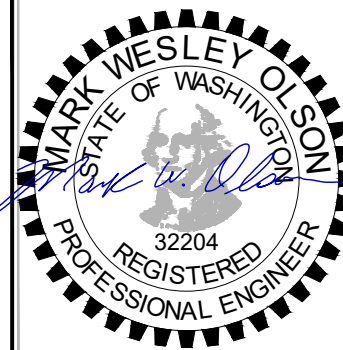
- TOWER OWNER DRAWINGS
- CARRIER DRAWINGS

STACKER BUTTE ALT 1

UNASSIGNED ADDRESS
KLUCKITAT, WA 98635
KLUCKITAT COUNTY

REVISIONS

REV.	DATE	DESCRIPTION	APPROVED	
			RLD	MWO
A	12/06/24	ISSUED FOR 90% CD REVIEW	RLD	
0	06/24/25	ISSUED FOR 100% CD SUBMITTAL	RLD	



TITLE
SCHEMATIC GROUNDING PLANS

SHEET
E-3

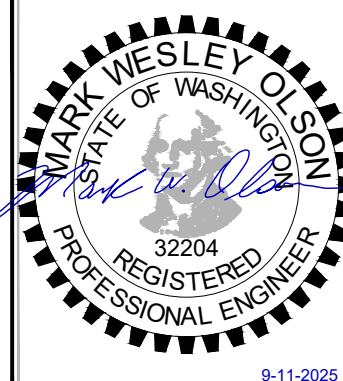
PROPRIETARY INFORMATION:
THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO VERIZON WIRELESS SERVICES IS STRICTLY PROHIBITED.

STACKER BUTTE ALT 1

UNASSIGNED ADDRESS
KLUCKITAT, WA 98635
KLUCKITAT COUNTY

REVISIONS

REV.	DATE	DESCRIPTION	BY
A	12/06/24	ISSUED FOR 90% CD REVIEW	RLD
0	06/24/25	ISSUED FOR 100% CD SUBMITTAL	RLD



TITLE
UTILITY TRENCH & GROUNDING DETAILS

SHEET
E-5

PROPRIETARY INFORMATION:
THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO VERIZON WIRELESS SERVICES IS STRICTLY PROHIBITED.

24"X36" SCALE: N.T.S.
11"X17" SCALE: N.T.S.

NOT USED 8

24"X36" SCALE: N.T.S.
11"X17" SCALE: N.T.S.

NOT USED 7

24"X36" SCALE: N.T.S.
11"X17" SCALE: N.T.S.

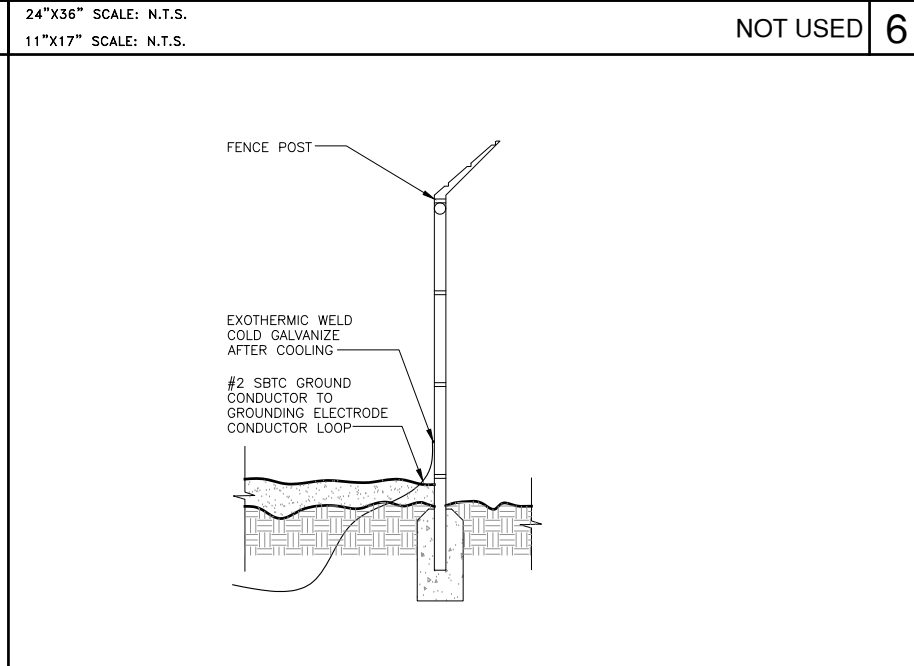
NOT USED 6

24"X36" SCALE: N.T.S.
11"X17" SCALE: N.T.S.

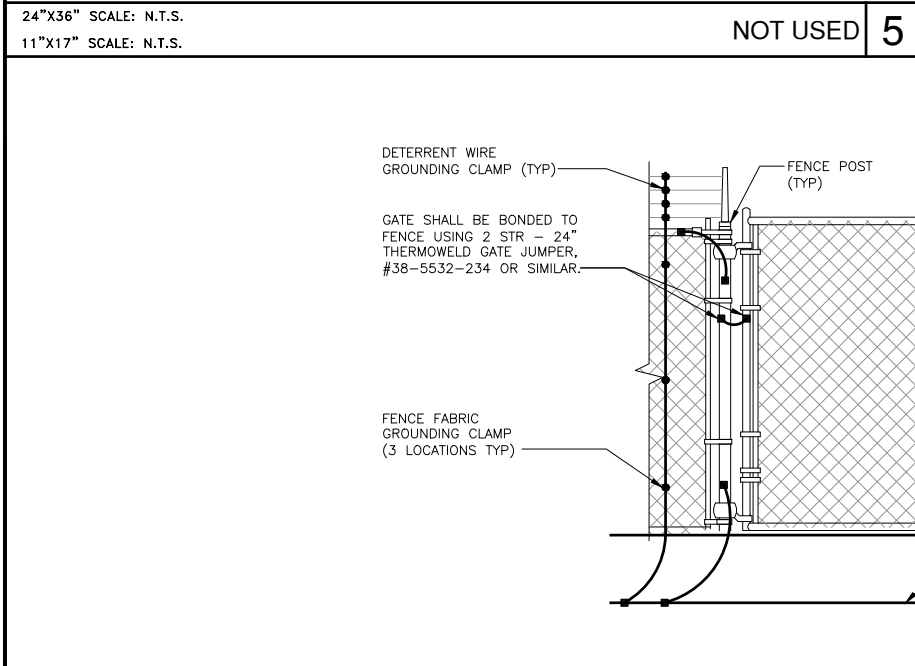
NOT USED 5

24"X36" SCALE: N.T.S.
11"X17" SCALE: N.T.S.

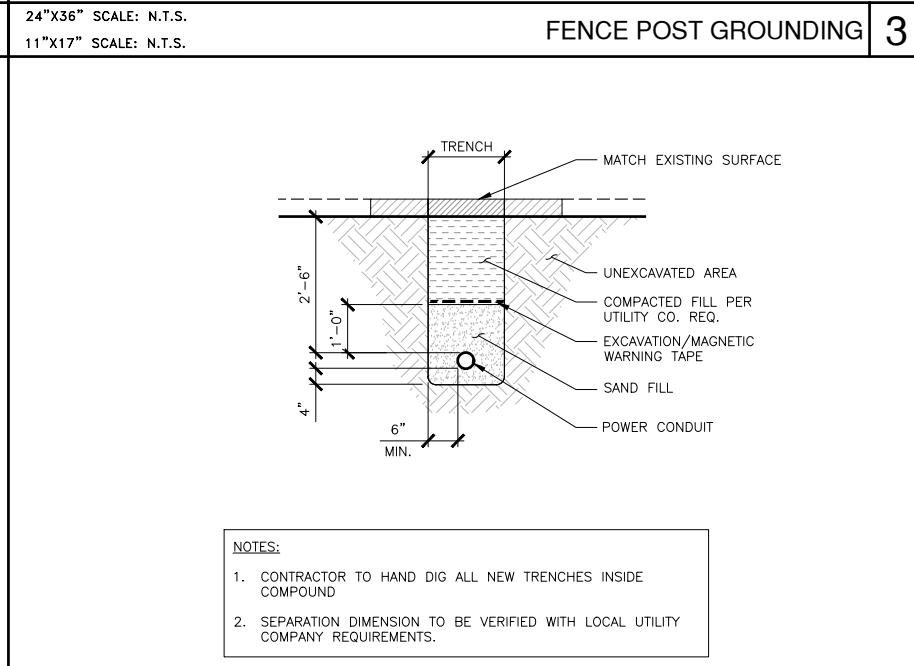
NOT USED 4



FENCE POST GROUNDING 3



FENCE GATE GROUNDING 2



- NOTES:
- CONTRACTOR TO HAND DIG ALL NEW TRENCHES INSIDE COMPOUND
 - SEPARATION DIMENSION TO BE VERIFIED WITH LOCAL UTILITY COMPANY REQUIREMENTS.

TYPICAL UTILITY TRENCH 1

24"X36" SCALE: N.T.S.
11"X17" SCALE: N.T.S.

24"X36" SCALE: N.T.S.
11"X17" SCALE: N.T.S.