

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 [REDACTED] 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/>.

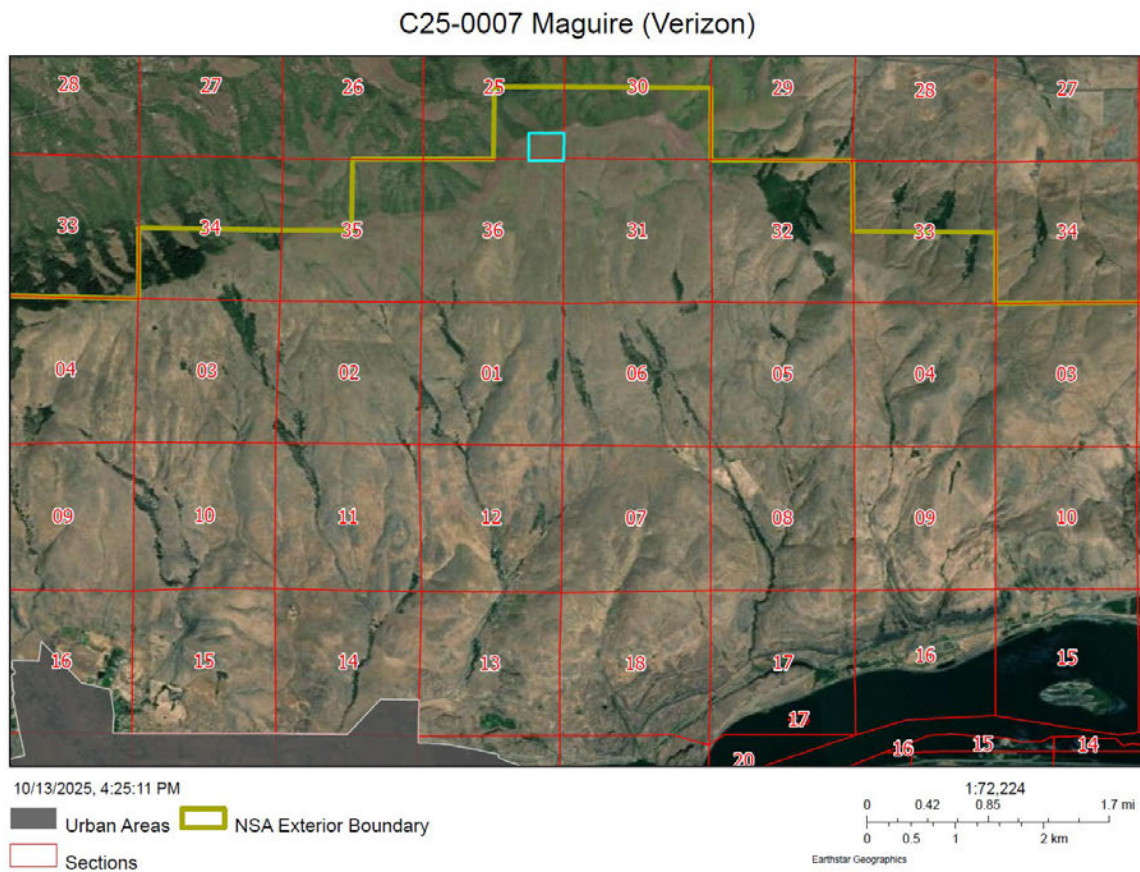
This application will be reviewed for consistency with the Columbia River Gorge Commission's Land Use Ordinance (Commission Rule 350-082). The Gorge Commission may consider comments about consistency with *Management Plan for the Columbia River Gorge National Scenic Area* and the Columbia River Gorge 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).

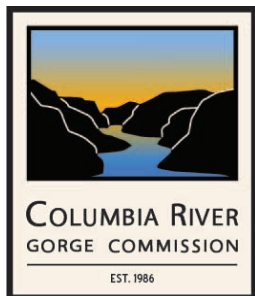
Consistency with the National Scenic Area Act does not imply or ensure compliance with any other applicable local, state, or federal law.

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



Columbia River Gorge Commission

Earthstar Geographics | Source: USDA NRCS, Esri | Columbia River Gorge Commission | Oregon Department of Fish and Wildlife | Columbia River Gorge Commission



For office use:
Application No. _____

Land Use Application

Applicant(s)

Jack Maguire, Ryka Land Services on behalf of Verizon Wireless

Mailing Address:

Phone:

Email

Property Owner(s)

Mailing Address:

Phone:

Email

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

Jack Maguire

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:

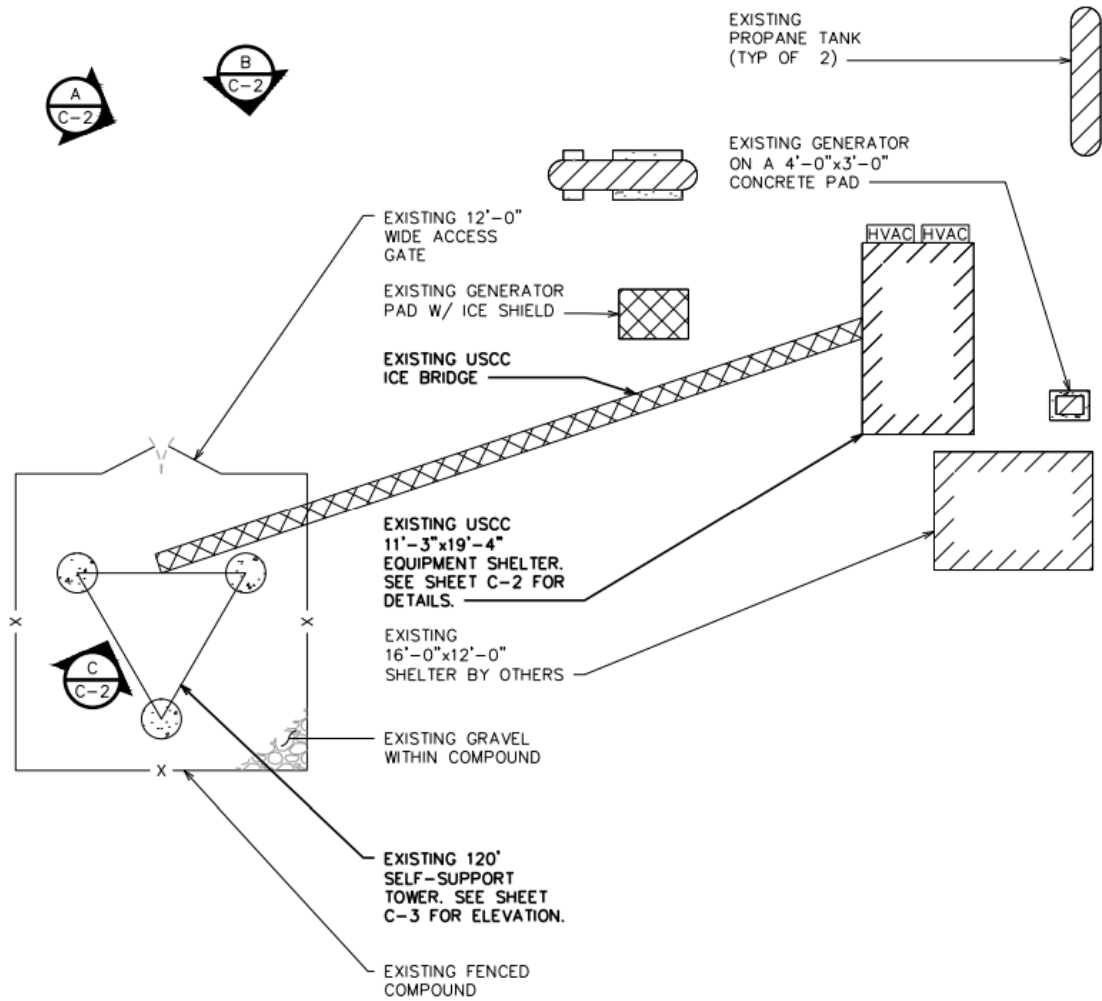
- Location of plants used
- Number of plants
- Size of plants
- Type of plants
- Irrigation provisions or other measures to ensure the survival of landscaping planted for screening purposes
- Location of existing and proposed topographical features, such as berms, that would screen your project.

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

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

Adjacent Property Owners

[illegible]





VZW SITE NAME: [REDACTED] - ALT 1

US CELLULAR ASR - 457
SITE - 385344

SITE ADDRESS: UNASSIGNED ADDRESS
KLICKITAT, WA 98635



LAND SURVEYING
ENGINEERING
ARCHITECTURE
DRONE INSPECTION
REAL ESTATE SERVICES

- ☐ TOWER OWNER DRAWINGS
- ☒ CARRIER DRAWINGS

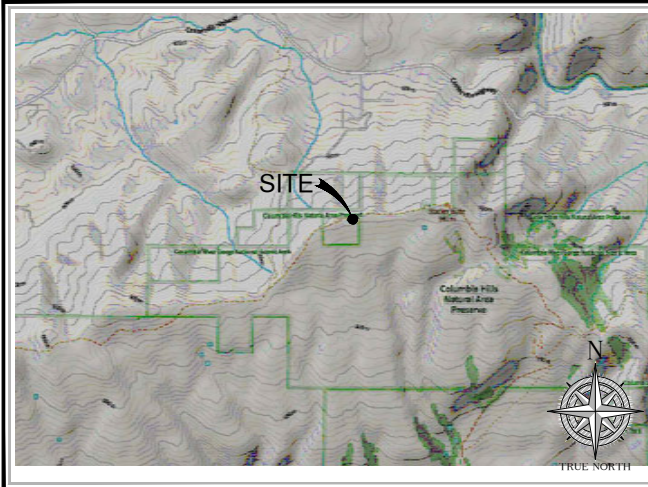
ALT 1

UNASSIGNED ADDRESS
KLICKITAT, WA 98635
KLICKITAT COUNTY

VICINITY MAP



GENERAL LOCATION MAP



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

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DRIVING DIRECTIONS



SITE INFORMATION

<u>CODE INFORMATION:</u>	
ZONING CLASSIFICATION:	OPEN SPACE
BUILDING CODE:	2021 IBC
CONSTRUCTION TYPE:	IIB
OCCUPANCY:	U
JURISDICTION:	CLICKITAT 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:
03132500002100

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-SUB-56) ANTENNA/RADIO (1 PER SECTOR)
- (6) REMOTE RADIO UNITS
- (1) 3' 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)

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

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.



9-11-2025

TITLE
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.

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.

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.

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.

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.

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.

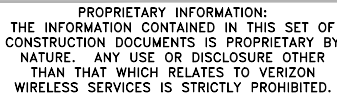
1. ALL PENETRATIONS TO EXISTING STRUCTURES MUST BE SEALED WITH APPROVED WEATHERPROOFING. IF WEATHERPROOFING IS OMITTED, CONTACT THE PROJECT TEAM FOR CLARIFICATION OR PROVIDE A WEATHERPROOFING PROPOSAL FOR APPROVAL.
2. CONTRACTOR SHALL COORDINATE WITH OWNER AND THE EXISTING ROOFING CONTRACTOR OF RECORD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

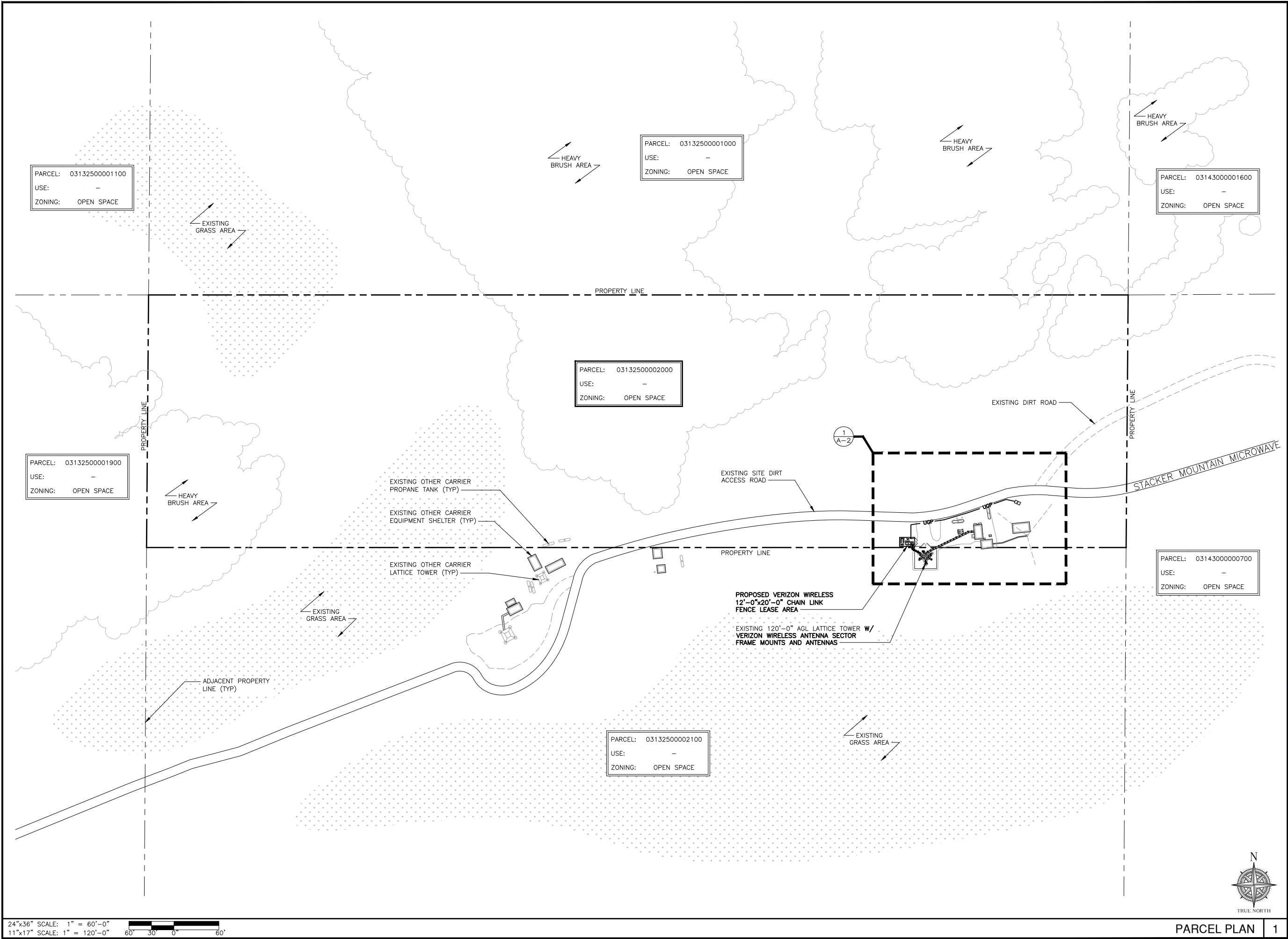
3. ALL CONCRETE DESIGN DESCRIBED BY THIS SET OF DRAWINGS IS BASED ON ACI 318
2. ALL STRUCTURAL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI. UNLESS SPECIFIED OTHERWISE.
3. EACH CONCRETE MIX DESIGN SHALL HAVE A CYLINDER TEST HISTORY OF 60 DAYS MINIMUM, TESTED IN ACCORDANCE WITH 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 IN 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 ½ INCH OF DEPTH INTO THE FACE OF THE CONCRETE. MAJOR REPAIRS EXTENDING BEYOND ½ 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.

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.

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 BE MADE ONLY WHEN APPROVED BY THE ARCHITECT OR DESIGN ENGINEER.
5. INSTALLATION MUST COMPLY WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS FOR WORK.

C	AIR CONDITIONING	MAX	MAXIMUM
AGL	ABOVE GROUND LEVEL	MECH	MECHANICAL
AMSL	ABOVE MEAN SEA LEVEL	MTL	METAL
APPROX	APPROXIMATELY	MFR	MANUFACTURE
AWG	AMERICAN WIRE GAGE	MGR	MANAGER
		MIN	MINIMUM
		MISC	MISCELLANEOUS
BCW	BARE COPPER WIRE		
BLDG	BUILDING	NA	NOT APPLICABLE
BLK	BLOCKING	NIC	NOT IN CONTRACT
		NTS	NOT TO SCALE
CLR	CLEAR		
COAX	COAXIAL CABLE		
CONC	CONCRETE	OC	ON CENTER
CONST	CONSTRUCTION	OD	OUTSIDE DIAMETER
CONT	CONTINUOUS		
DIA	DIAMETER	PLYWD	PLYWOOD
DWG	DRAWING	PROJ	PROJECT
		PROP	PROPERTY
		PT	PRESSURE TREATED
EA	EACH	REQ	REQUIRED
ELEV	ELEVATION	RF	RADIO FREQUENCY
ELEC	ELECTRICAL	RM	ROOM
EQ	EQUAL	RO	ROUGH OPENING
EQUIP	EQUIPMENT	RRH	REMOTE RADIO HEAD
EXT	EXTERIOR	RRU	REMOTE RADIO UNIT
FIN	FINISH		
FLUOR	FLUORESCENT	SHT	SHEET
FLR	FLOOR	SIM	SIMILAR
FT	FOOT	SPEC	SPECIFICATION
FRP	FIBER--REINFORCED POLYMER	SF	SQUARE FOOT
		SS	STAINLESS STEEL
		STL	STEEL
GA	GAUGE	STRUCT	STRUCTURAL
GALV	GALVANIZED	STD	STANDARD
GC	GENERAL CONTRACTOR	SUSP	SUSPENDED
GPS	GLOBAL POSITIONING SYSTEM		
GRND	GROUND	THRU	THROUGH
		TMA	TOWER MOUNTED AMPLIFIER
HORZ	HORIZONTAL	TNG	TINNED
HR	HOUR	TYP	TYPICAL
HT	HEIGHT		
HVAC	HEATING VENTILATION AIR CONDITIONING	UNO	UNLESS NOTED OTHERWISE
ID	INSIDE DIAMETER	VERT	VERTICAL
IN	INCH	VIF	VERIFY IN FIELD
INFO	INFORMATION		
INSUL	INSULATION	W/	WITH
INT	INTERIOR	W/O	WITHOUT
IBC	INTERNATIONAL BUILDING CODE	WP	WATER PROOF
LBS	POUNDS		
LMU	LOCATION MEASUREMENT UNIT		
LTE	LONG TERM EVOLUTION		





LAND SURVEYING
ENGINEERING
ARCHITECTURE
DRONE INSPECTION
REAL ESTATE SERVICES

☐ TOWER OWNER DRAWINGS
☒ CARRIER DRAWINGS

ALT 1

UNASSIGNED ADDRESS
KLIKITAT, WA 98635
KLIKITAT COUNTY

REVISIONS				
DRAWN BY		CHECKED	APPROVED	
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
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.



ALT 1

REVISIONS

[illegible]

HEET

A-2

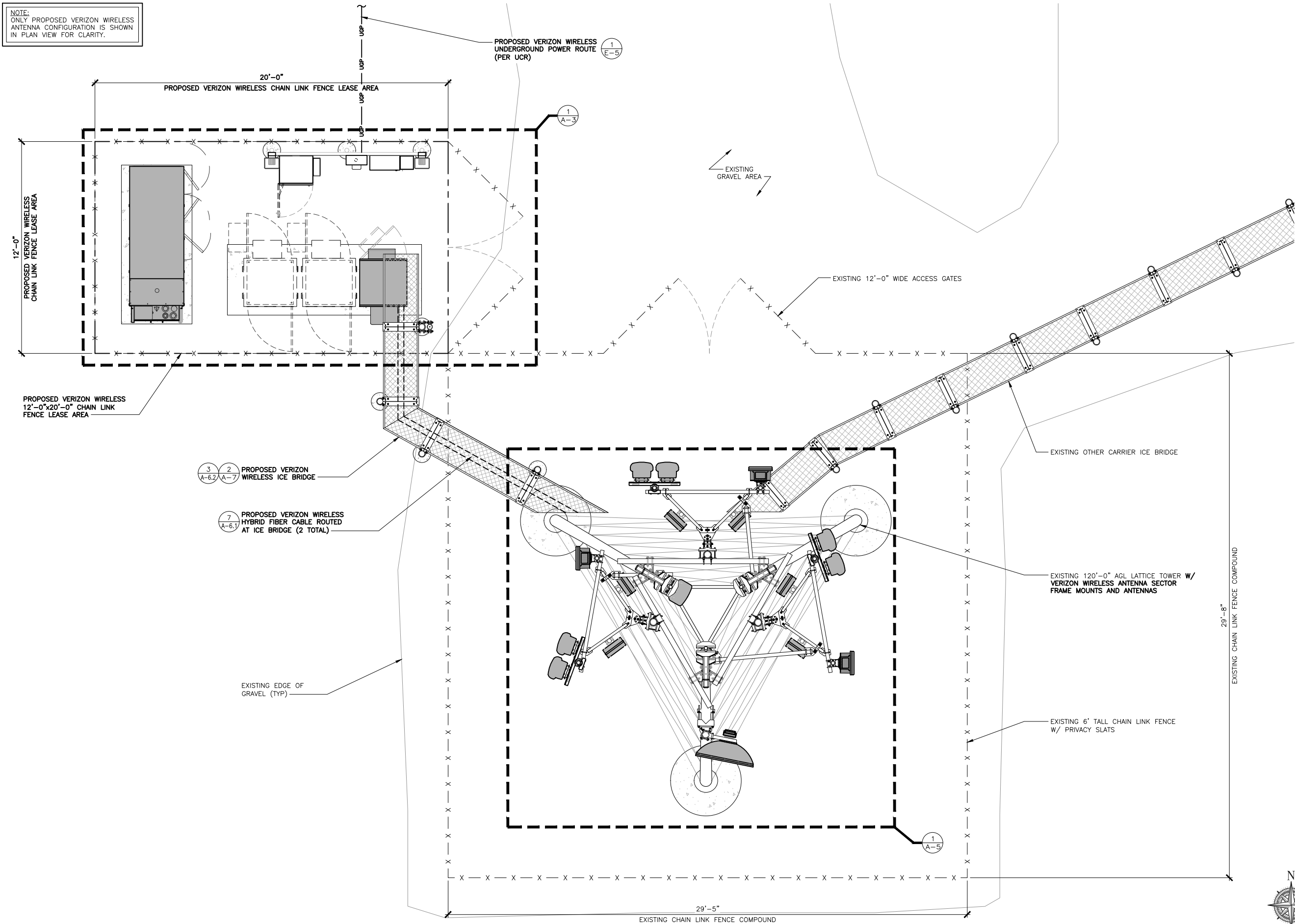
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THAN THAT WHICH RELATES TO VERIZON
WIRELESS SERVICES IS STRICTLY PROHIBITED.



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

SITE PLAN	1
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NOTE:
ONLY PROPOSED VERIZON WIRELESS
ANTENNA CONFIGURATION IS SHOWN
IN PLAN VIEW FOR CLARITY.



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

ENLARGED SITE PLAN

1

verizon

RYKA
LAND SERVICES

LAND SURVEYING
ENGINEERING
ARCHITECTURE
DRONE INSPECTION
REAL ESTATE SERVICES



☐ TOWER OWNER DRAWINGS
☒ CARRIER DRAWINGS

ALT 1

UNASSIGNED ADDRESS
KLIKITAT, WA 98635
KLIKITAT COUNTY

REVISIONS

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



9-11-2025

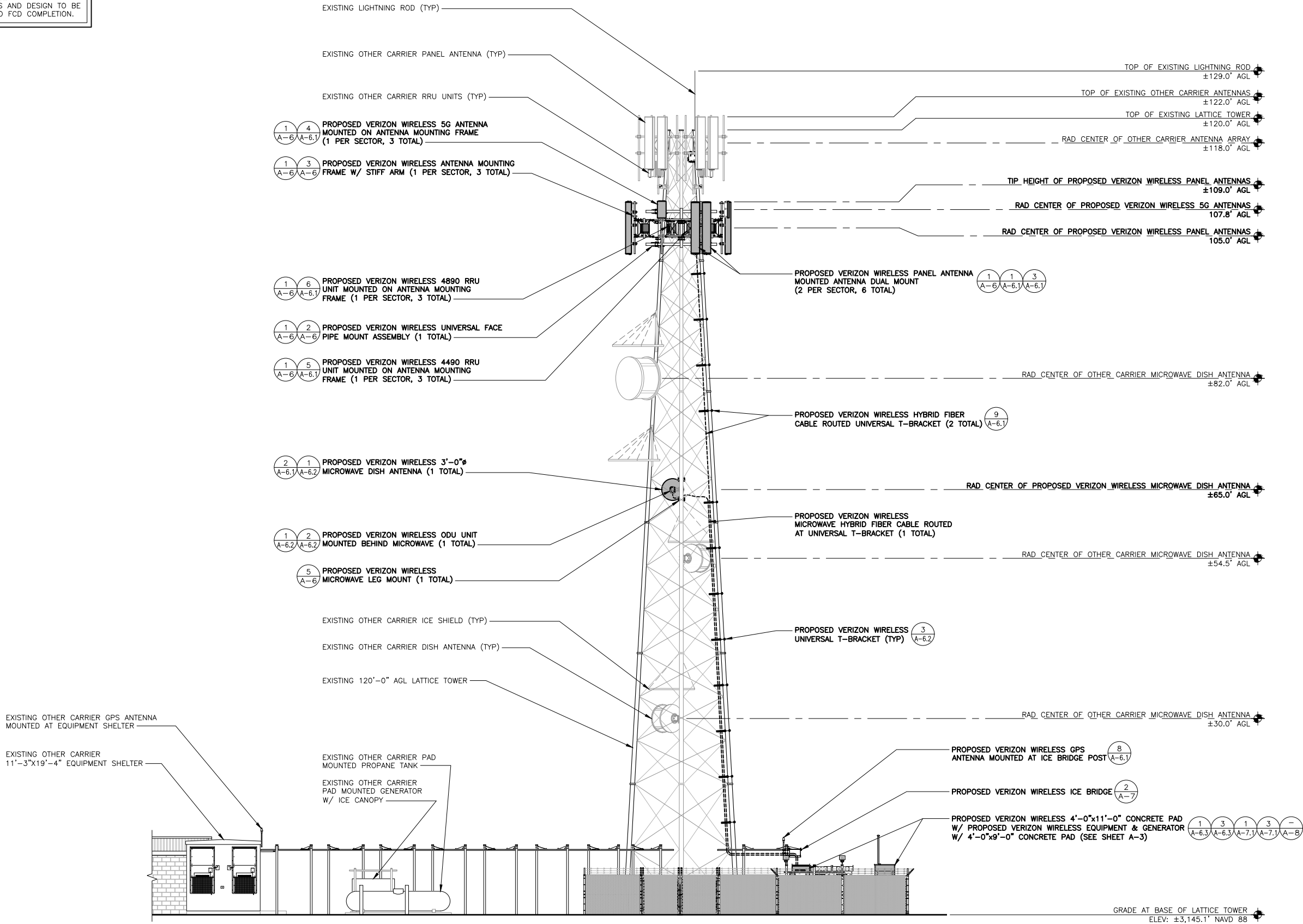
TITLE
ENLARGED SITE PLAN

SHEET

A-2.1

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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.



24"x36" SCALE: 1/8" = 1'-0"
11"x17" SCALE: 1/16" = 1'-0"
8' 6' 4' 2' 0' 8'

PROPOSED NORTH ELEVATION

1

verizon

RYKA
LAND SERVICES

LAND SURVEYING
ENGINEERING
ARCHITECTURE
DRONE INSPECTION
REAL ESTATE SERVICES

☐ TOWER OWNER DRAWINGS
☒ CARRIER DRAWINGS

ALT 1

UNASSIGNED ADDRESS
KLUCKITAT, WA 98635
KLUCKITAT COUNTY

REVISIONS

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RLD		DRA	MWO	
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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 NORTH ELEVATION

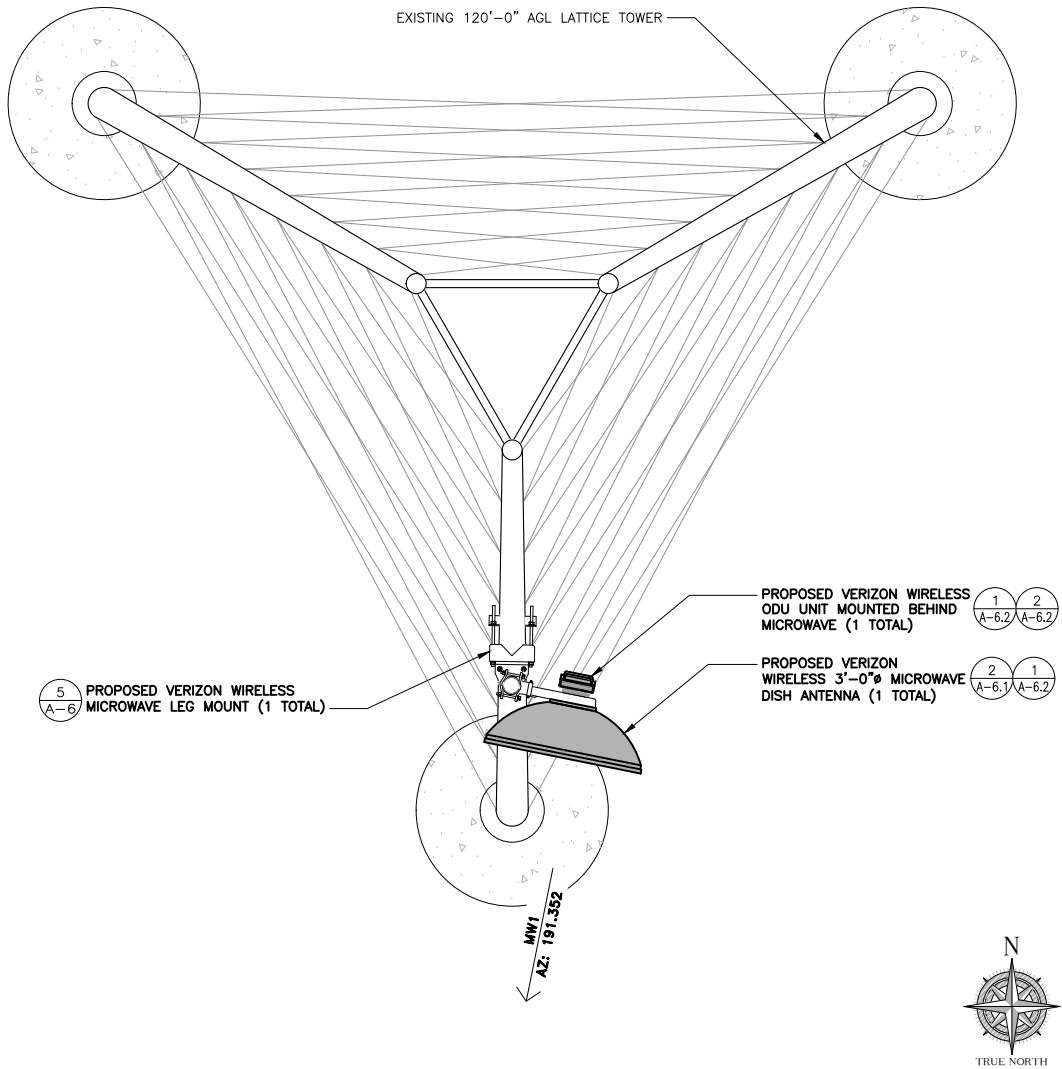
SHEET

A-4

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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°					
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°					
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°					
4	5G	270°	±109.0'	107.8'	ERICSSON	AIR6419	0°		INTEGRATED			

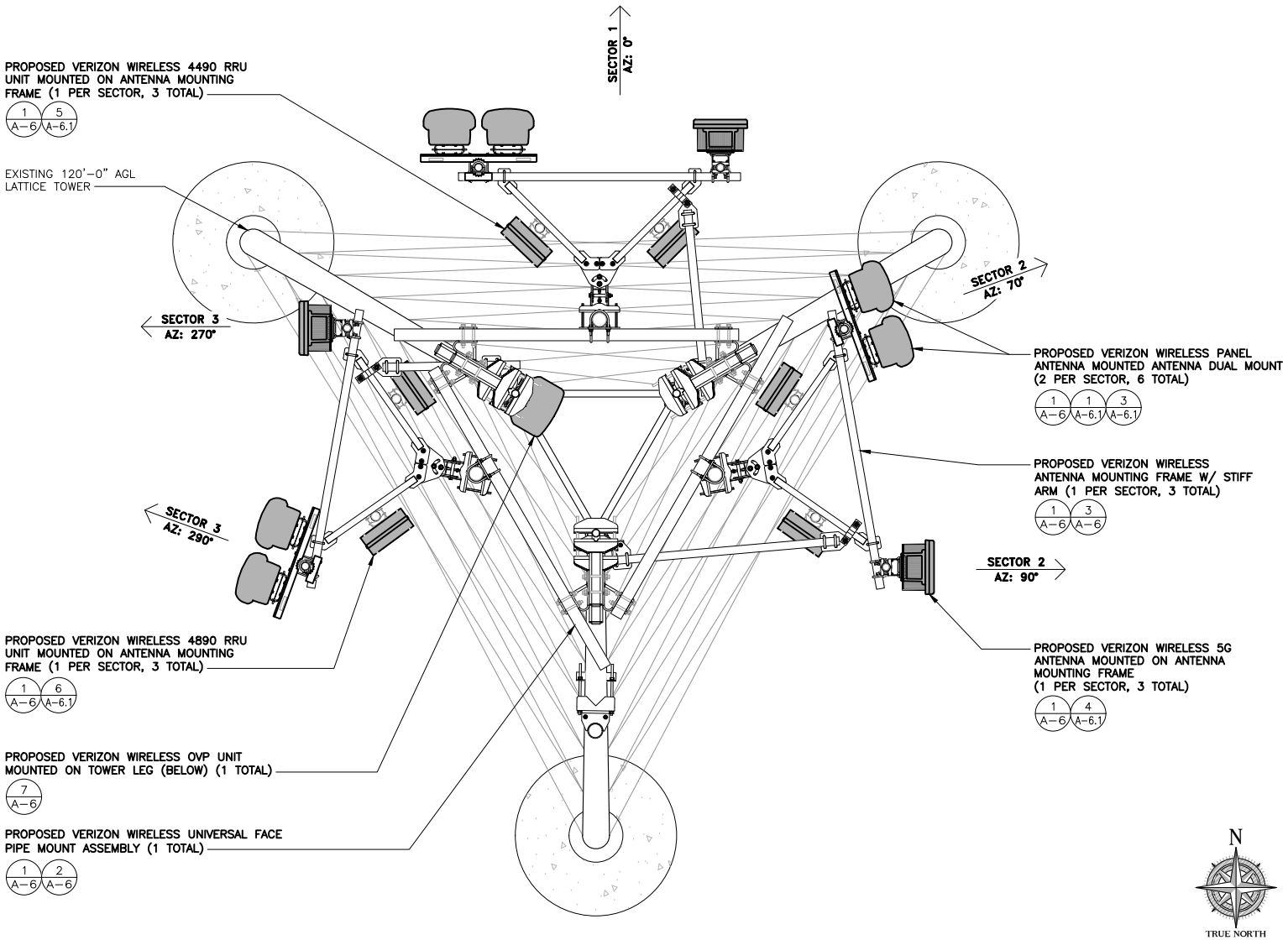
PROPOSED MICROWAVE SCHEDULE									
MICROWAVE	TECHNOLOGY	AZIMUTH	RAD CENTER	ANTENNA MANUFACTURER	MODEL	MECH TILT	CABLE	ODU MANUFACTURER	ODU MODEL
MW 1	-	191.352°	65'-0"	ANDREW	VHLPX3-18A	-	HYBRID	NOKIA	M18426-1



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



LAND SURVEYING
ENGINEERING
ARCHITECTURE
DRONE INSPECTION
REAL ESTATE SERVICES

☐ TOWER OWNER DRAWINGS
☒ CARRIER DRAWINGS

ALT 1

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KLIKITAT, WA 98635
KLIKITAT COUNTY

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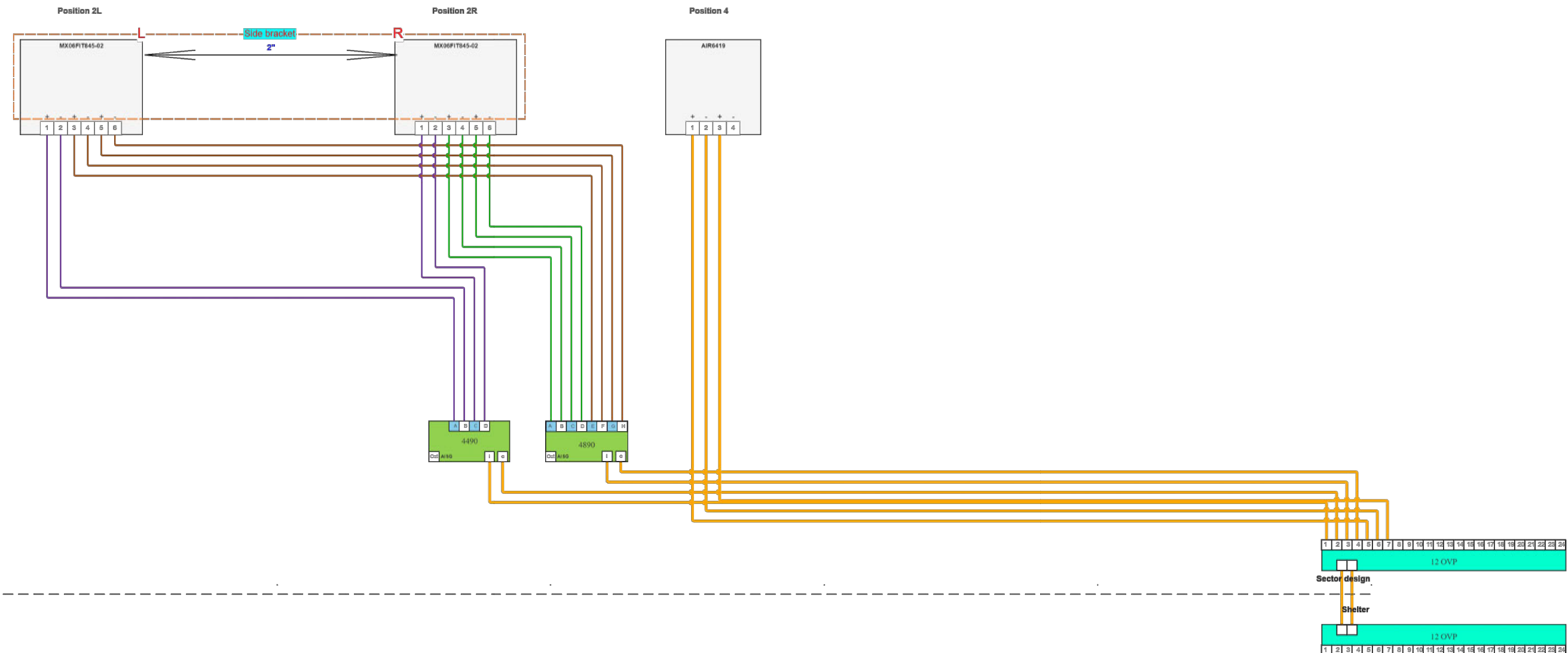


TITLE
PROPOSED ANTENNA
CONFIGURATION & SCHEDULE

SHEET
A-5

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PROPOSED RF PLUMBING DIAGRAM FOR ALPHA, BETA & GAMMA SECTORS



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- ☐ TOWER OWNER DRAWINGS
- ☒ CARRIER DRAWINGS

ALT 1

UNASSIGNED ADDRESS
Klickitat, WA 98635
Klickitat County

REVISIONS

[illegible]

-11-2025

TITLE
PROPOSED RF PLUMBING DIAGRAM

SHEET

A-5.1

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Microwave Path Datasheet

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

New Path
RCN Number: 250324E6

ADMINISTRATIVE INFORMATION

Site Name	SPEARFISH	
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)
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REAL ESTATE SERVICES

☐ TOWER OWNER DRAWINGS
☒ CARRIER DRAWINGS

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

MARK WESLEY OLSON
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
32204

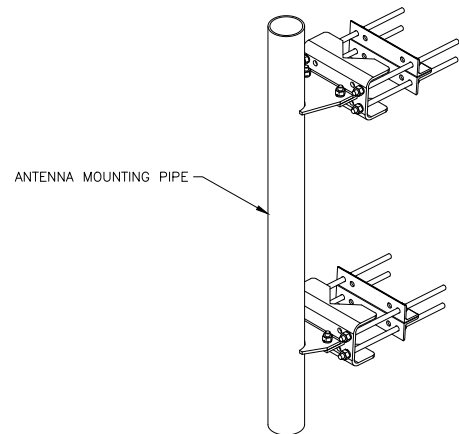
9-11-2025

TITLE
PROPOSED MICROWAVE DESIGN SHEET

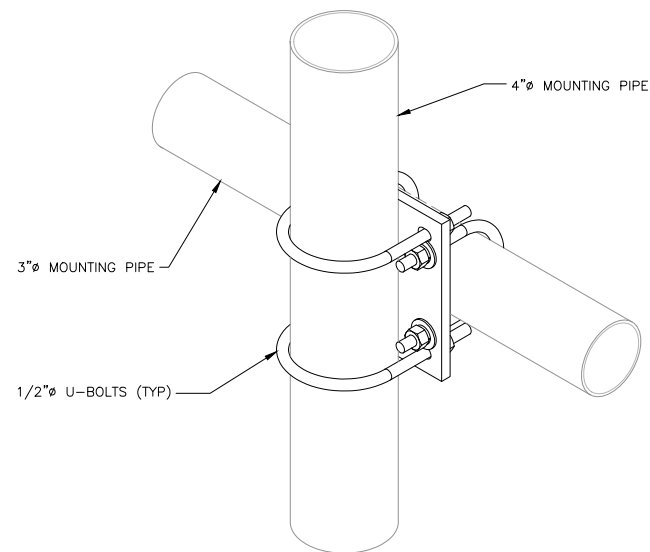
SHEET
A-5.2

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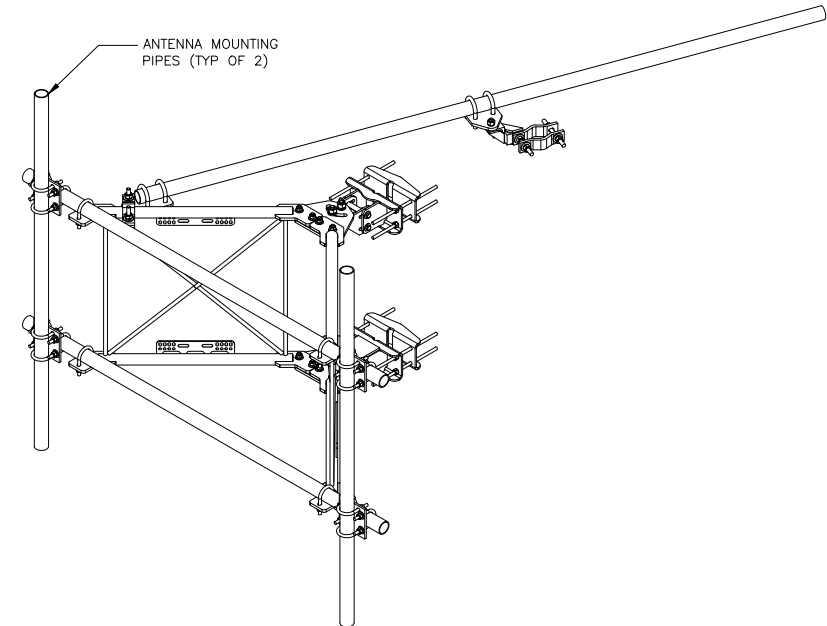
MANUFACTURER: SITE PRO 1
MODEL: LPM3 OR APPROVED EQUAL
UNIVERSAL LEG-MOUNTED PIPE MOUNT WITH
4-1/2" OD X 60" MOUNTING PIPE FOR
VERTICAL TOWER LEGS WITH 16:1 SLOPE
WEIGHT: 126 LBS



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

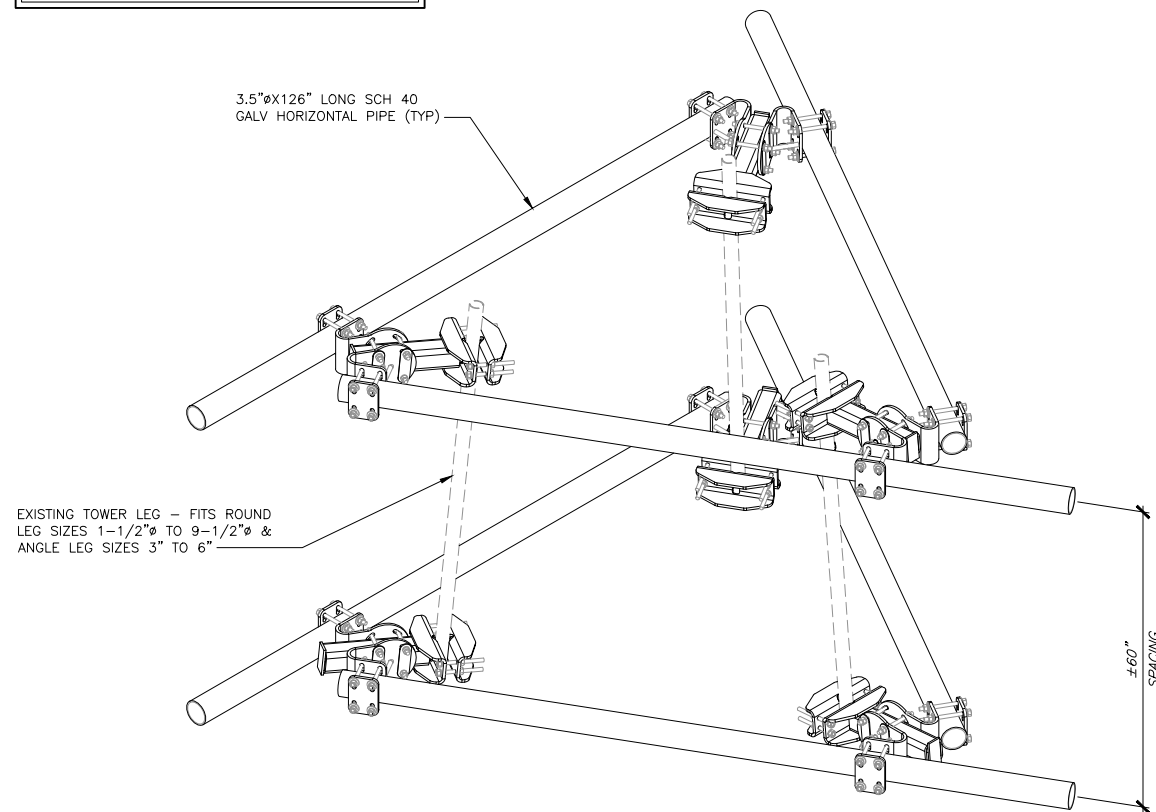
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11"x17" SCALE: N.T.S.

CROSSOVER PLATE 4

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

SECTOR FRAME MOUNT 3

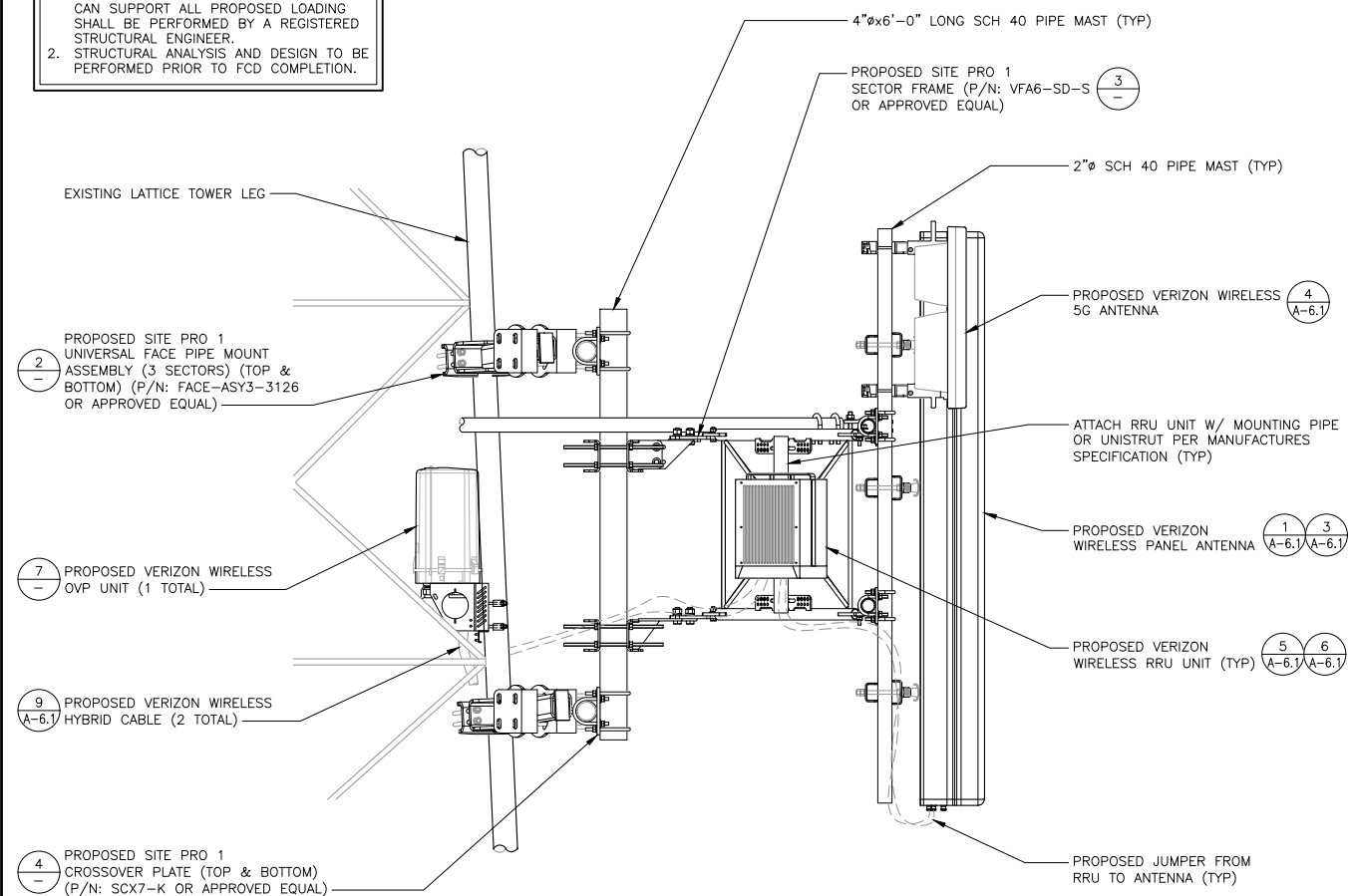
MANUFACTURER: SITE PRO 1
MODEL: FACE-ASY3-3126 - UNIVERSAL FACE PIPE
MOUNT ASSEMBLY (3 SECTORS)
WEIGHT: 1,330 LBS



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

UNIVERSAL FACE PIPE MOUNT ASSEMBLY 2

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

ANTENNA MOUNTING 1

verizon

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REAL ESTATE SERVICES

☐ TOWER OWNER DRAWINGS
☒ CARRIER DRAWINGS

ALT 1

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KLIKITAT, WA 98635
KLIKITAT COUNTY

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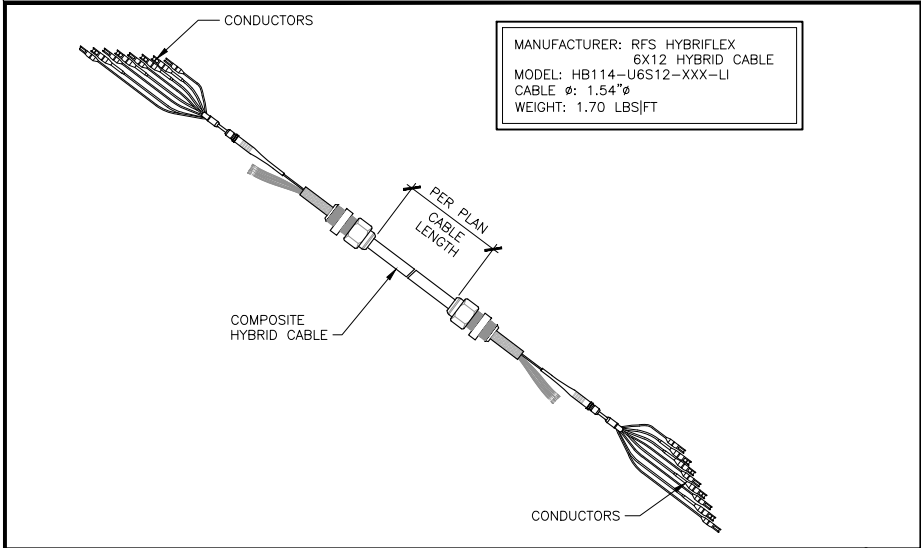


TITLE
ANTENNA MOUNTING DETAILS

SHEET

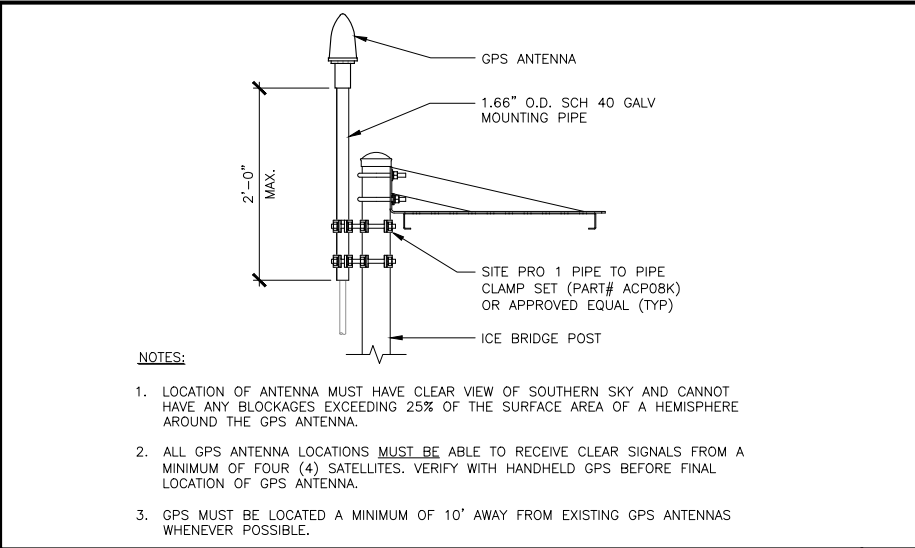
A-6

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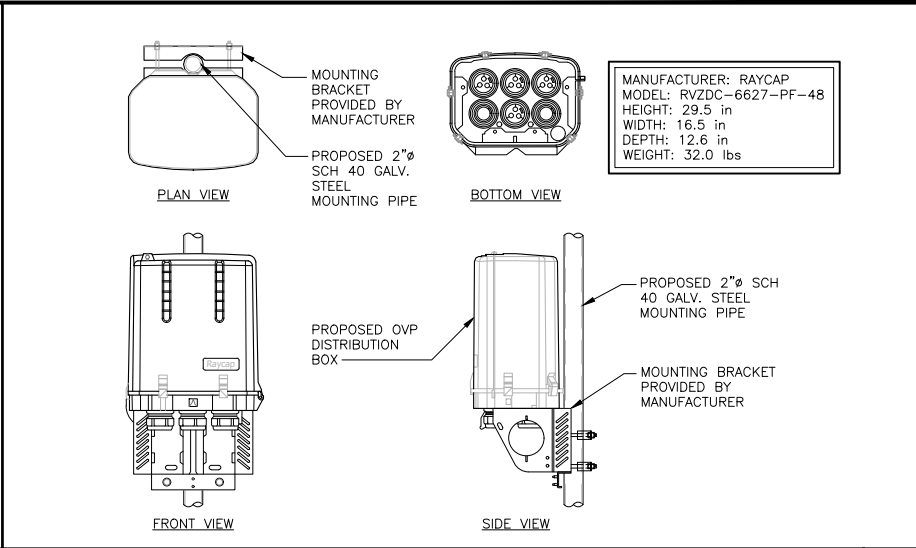
24"x36" SCALE: N.T.S.
11"x17" SCALE: N.T.S.

HYBRID FIBER CABLE 9



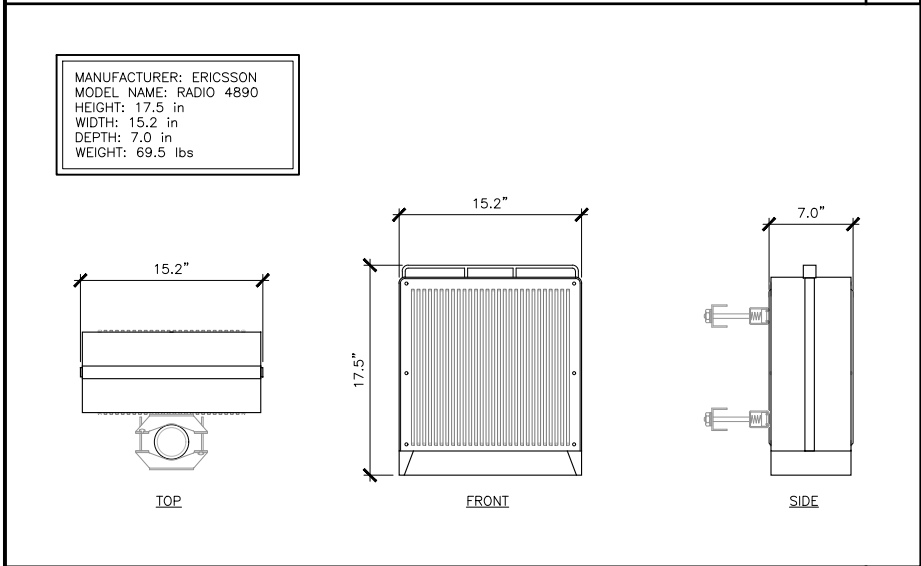
24"x36" SCALE: 1" = 1"
11"x17" SCALE: 1" = 1/2"

GPS ANTENNA MOUNTING 8



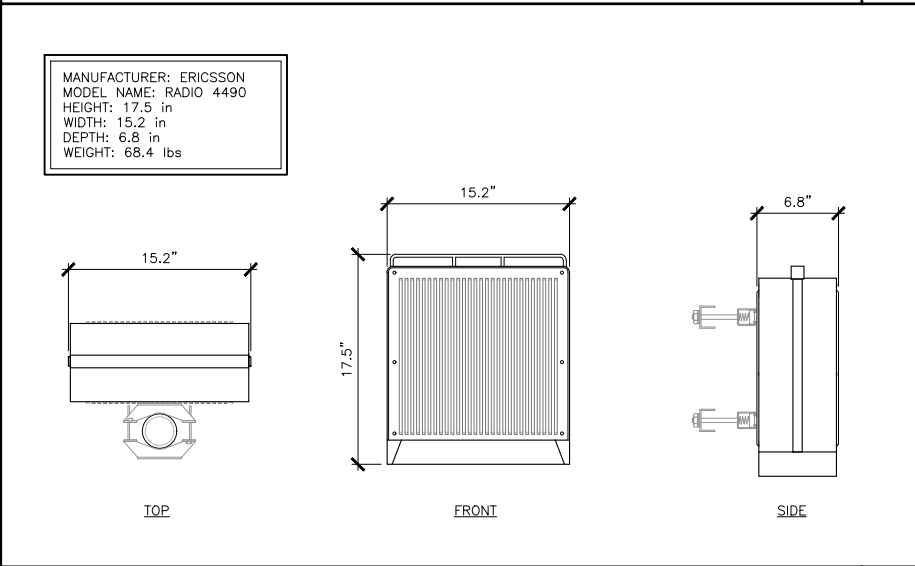
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11"x17" SCALE: N.T.S.

OVP UNIT 7



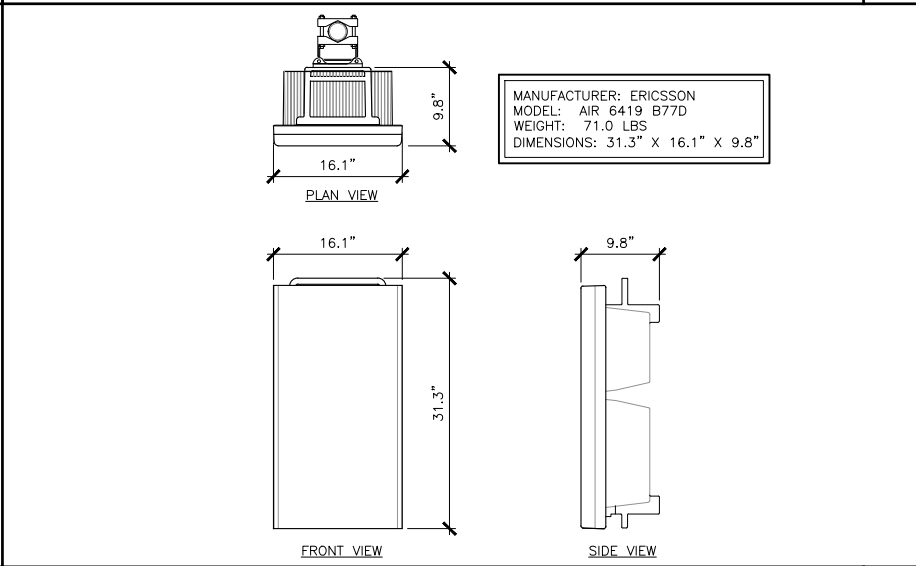
12"x24" SCALE: 1-1/2" = 1'-0"
11"x17" SCALE: 3/4" = 1'-0"

4890 RRU UNIT 6



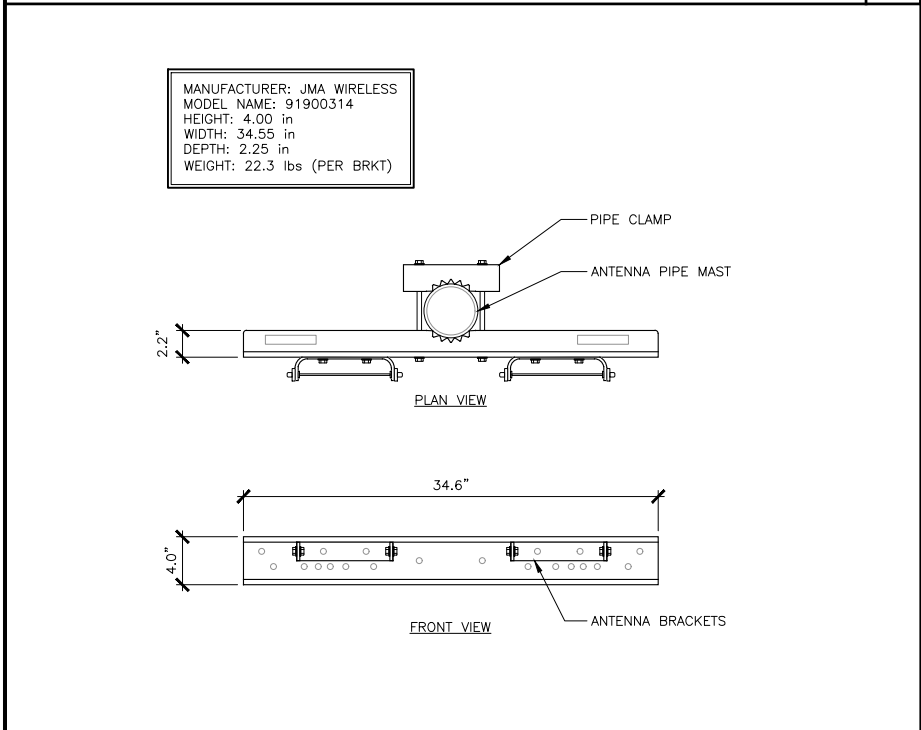
12"x24" SCALE: 1-1/2" = 1'-0"
11"x17" SCALE: 3/4" = 1'-0"

4490 RRU UNIT 5



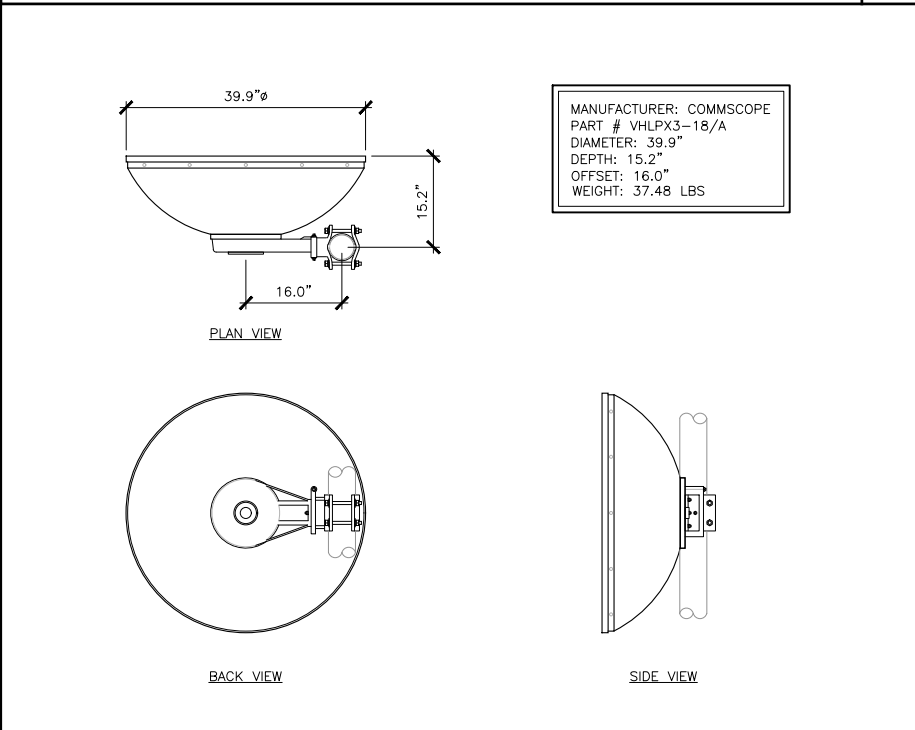
12"x24" SCALE: 1" = 1'-0"
11"x17" SCALE: 1/2" = 1'-0"

5G ANTENNA 4



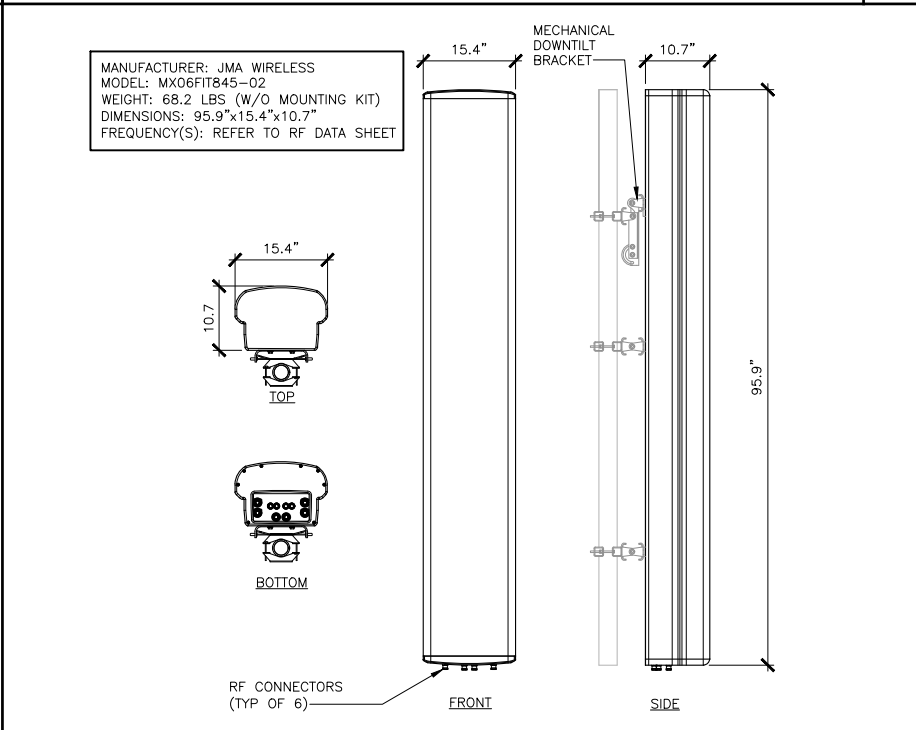
24"x36" SCALE: N.T.S.
11"x17" SCALE: N.T.S.

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

LAND SURVEYING
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REAL ESTATE SERVICES

☐ TOWER OWNER DRAWINGS
☒ CARRIER DRAWINGS

ALT 1

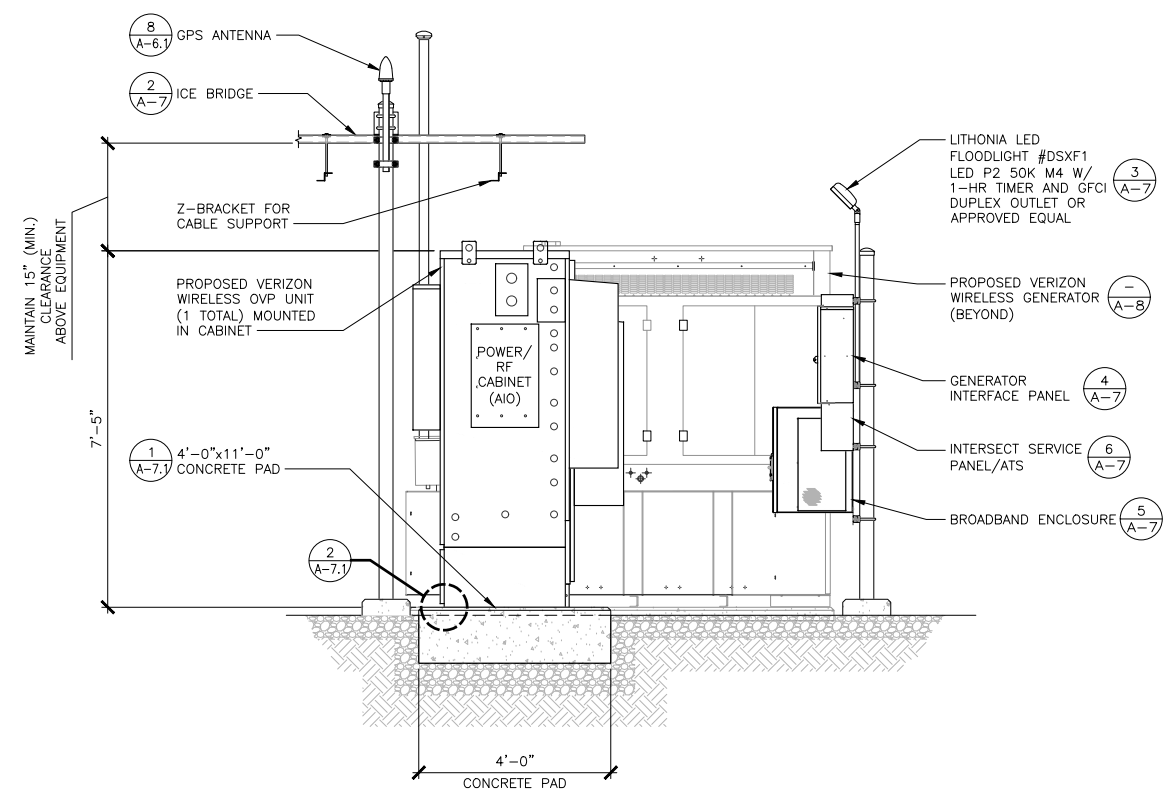
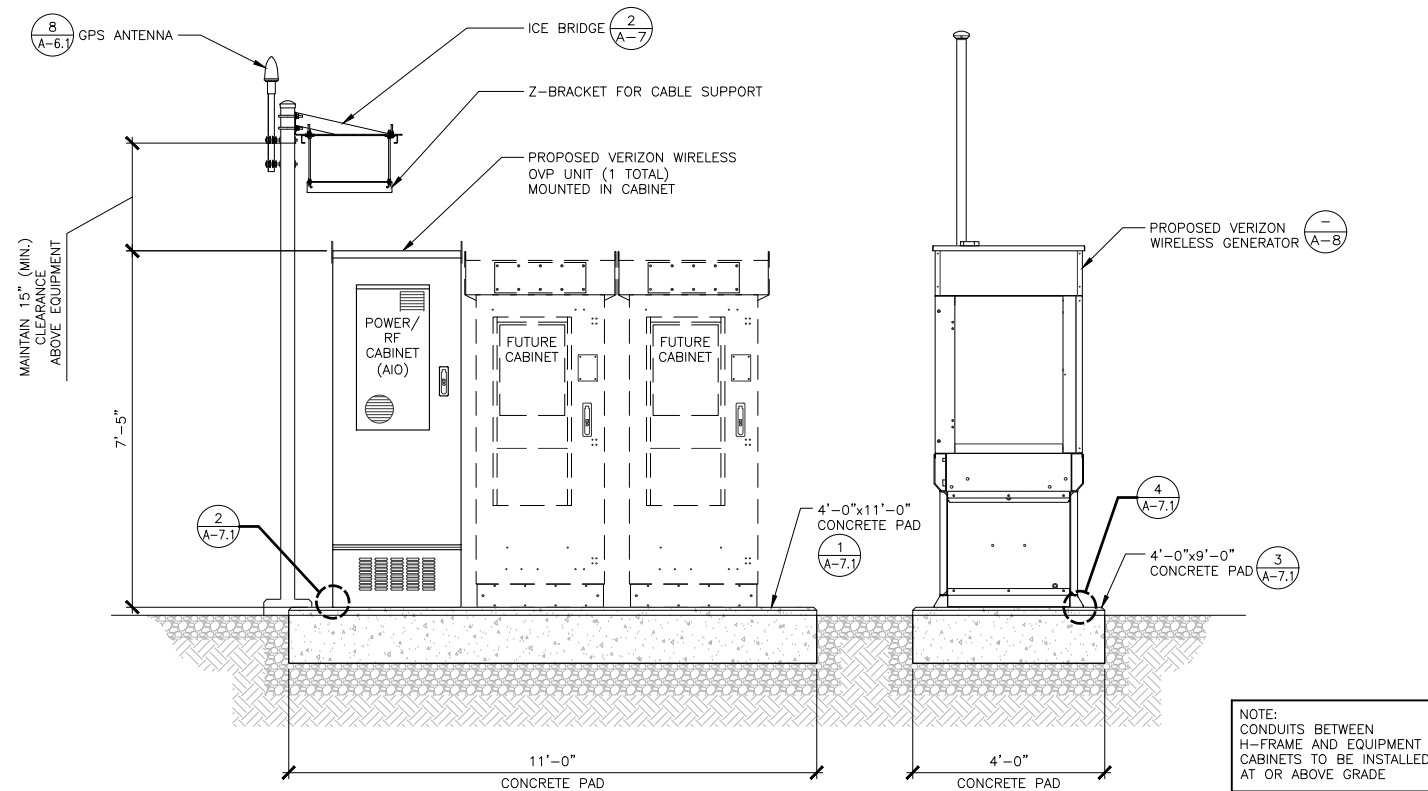
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TITLE
ANTENNA DETAILS

SHEET
A-6.1

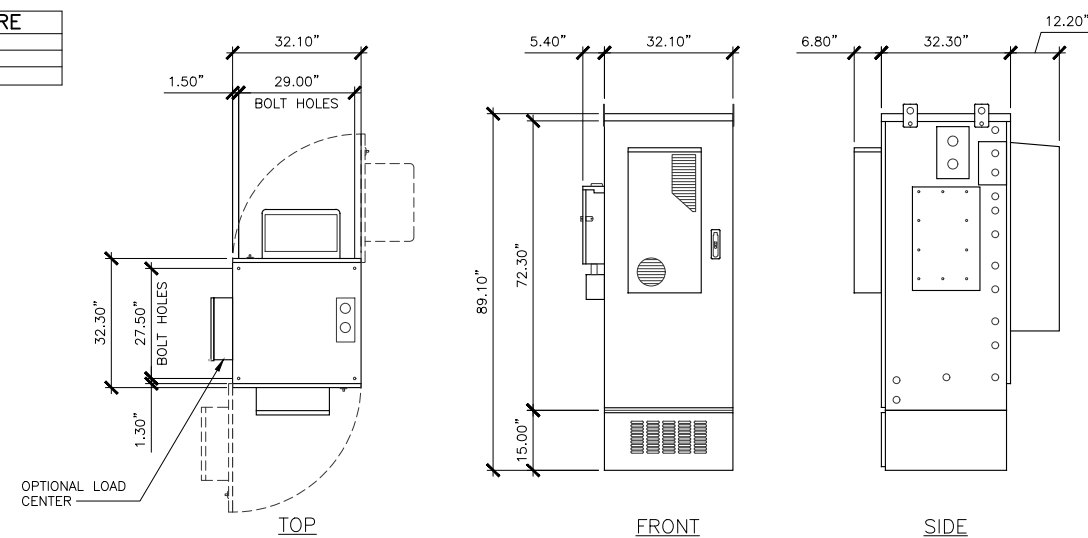
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11"x17" SCALE: 1/4" = 1'-0"

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
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REAL ESTATE SERVICES

☐ TOWER OWNER DRAWINGS
☒ CARRIER DRAWINGS

ALT 1

UNASSIGNED ADDRESS
KLICKITAT, WA 98635
KLICKITAT COUNTY

[illegible]

TITLE	
EQUIPMENT DETAILS	

SHEET

A-6.3

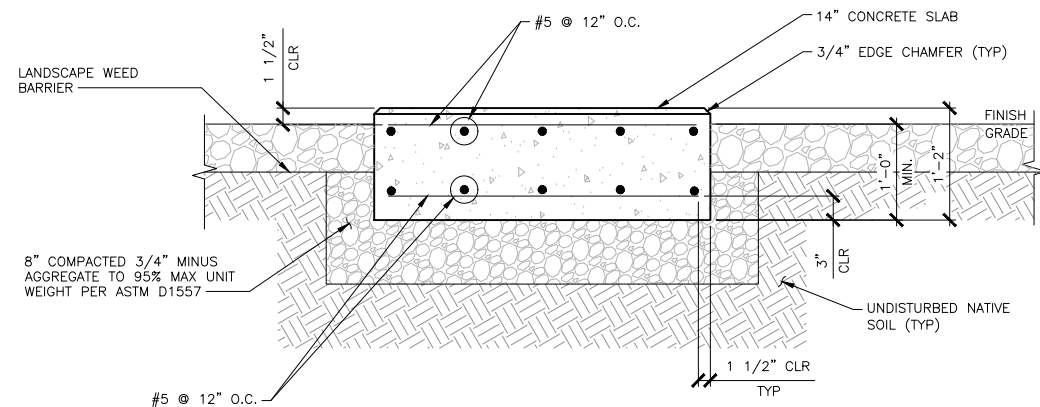
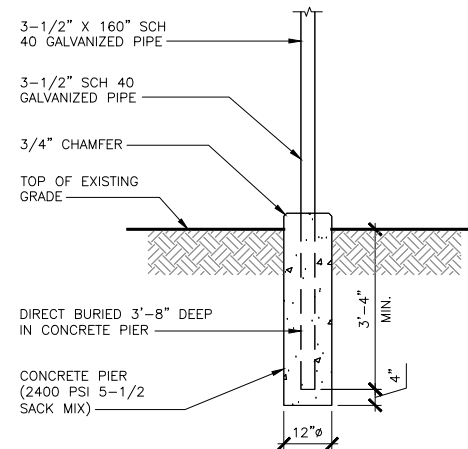
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H-FRAME ELEVATION	1
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1. CONTRACTOR TO CONTACT ALL UTILITIES FOR LOCATION OF UNDERGROUND SERVICES. SERVICES LOCATIONS TO BE CONFIRMED PRIOR TO CONSTRUCTION.
2. REMOVE ALL UNSUITABLE OR DELETERIOUS 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. GLEW WITH PREPARED "B" MATERIAL AND GEOTECH PRIOR TO CONSTRUCTION.
3. SUB-1" 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%

4. 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.
5. PROVIDE DEWIT PRO-5 (5 MIL) WEED BARRIER UNDER WASHED CHIPPED STONE COMPOUND UNLESS NOTED OTHERWISE.
6. PROVIDE 4" LAYER OF 5/8" TO 7/8" WASHED CHIPPED STONE WITH NO FINES ON FILTER FABRIC.
7. NO FABRIC REQUIRED ON STEEP GRADE, FINES WILL BE ALLOWED ON STEEP GRADE PRIOR TO APPROVAL FROM ATC CM



CIVIL NOTES | 7

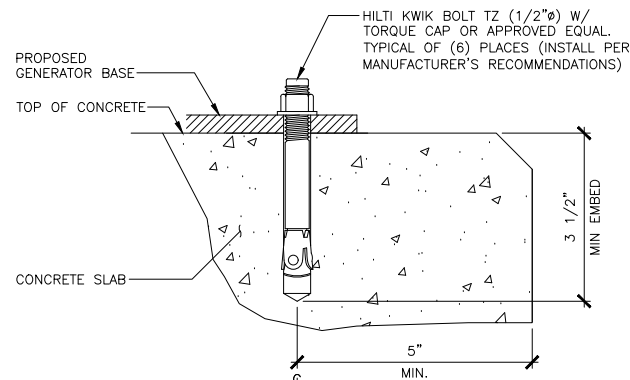
11"X17" SCALE: N.T.S.

CONCRETE PIER

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

CONCRETE PAD SECTION | 5

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

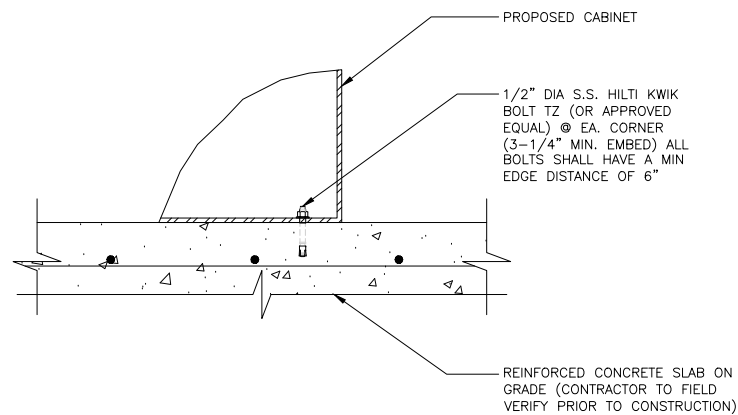


GENERATOR ATTACHMENT | 4

11"X17" SCALE: 3" = 1'-0"

GENERATOR CONCRETE PAD | 3

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

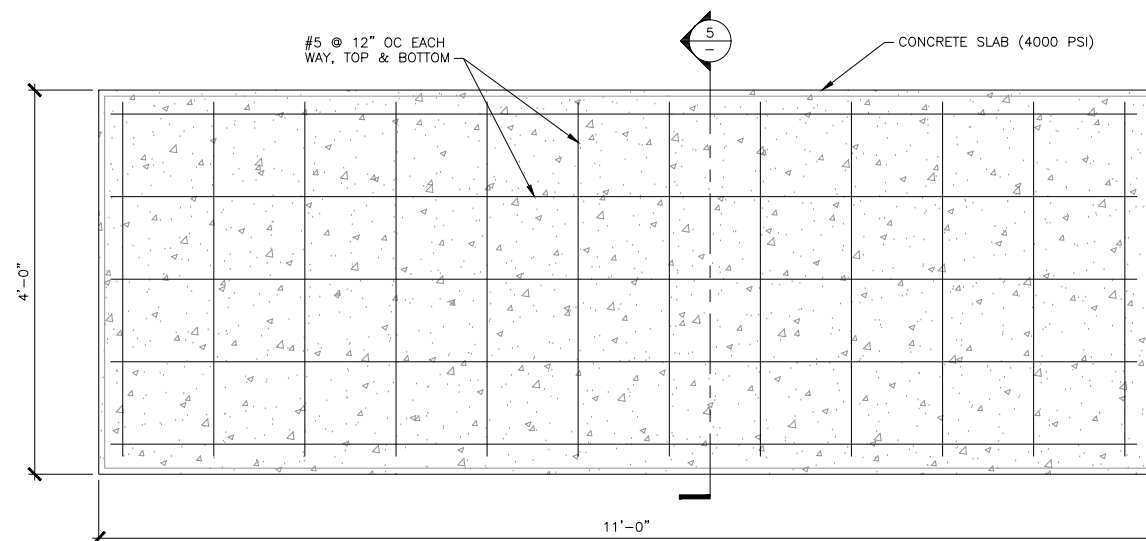
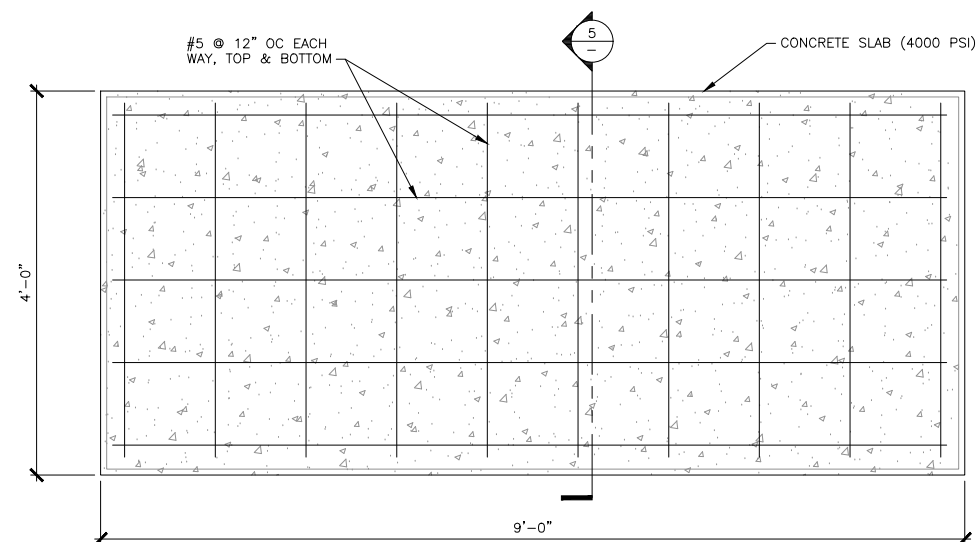


CABINET ATTACHMENT | 2

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

EQUIPMENT CONCRETE PAD | 1

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



LAND SURVEYING
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REAL ESTATE SERVICES

- ☐ TOWER OWNER DRAWINGS
☒ CARRIER DRAWINGS

ALT 1

UNASSIGNED ADDRESS
KLICKITAT, WA 98635
KLICKITAT COUNTY

[illegible]

0-11-2025

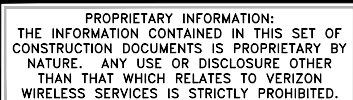
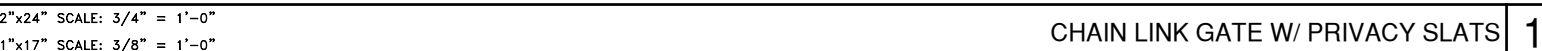
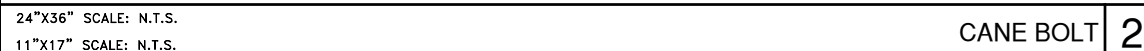
TITLE
CONSTRUCTION DETAILS

SHEET

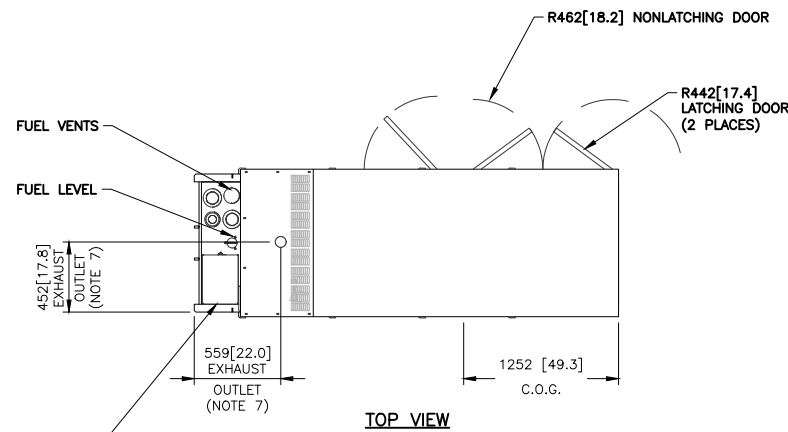
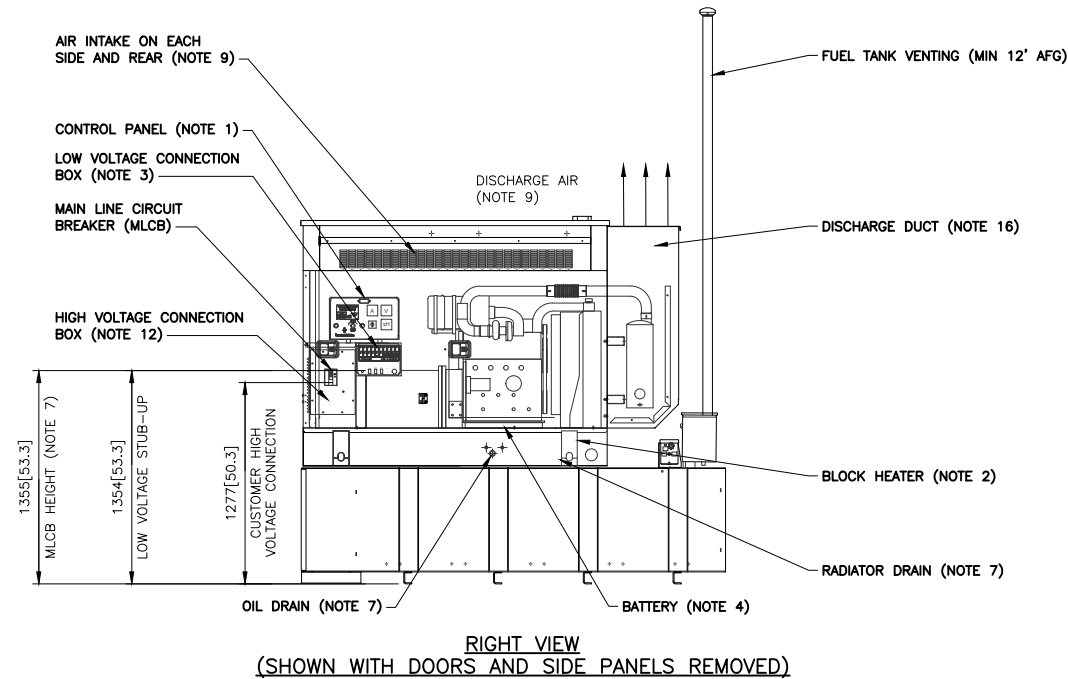
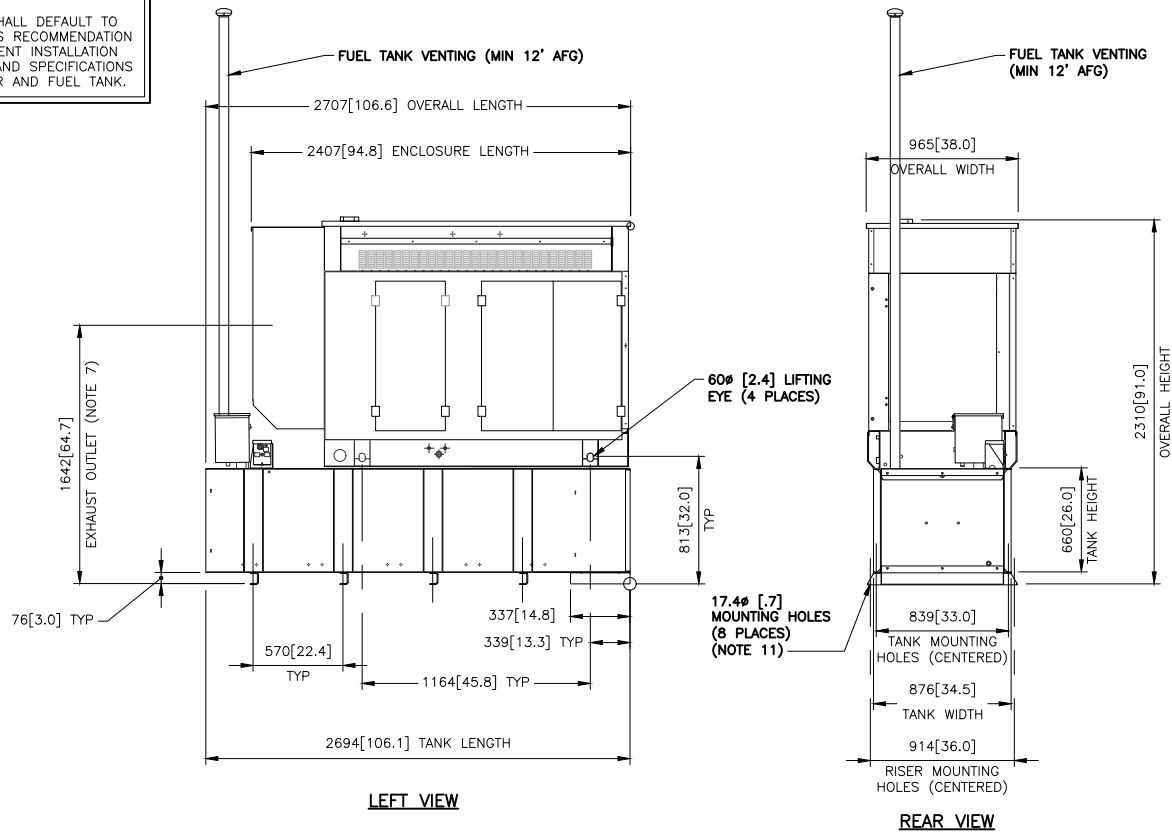
A-7.1

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CONSTRUCTION DOCUMENTS IS PROPRIETARY BY
NATURE. ANY USE OR DISCLOSURE OTHER
THAN THAT WHICH RELATES TO VERIZON
WIRELESS SERVICES IS STRICTLY PROHIBITED.

1. 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.
2. LINE POST: 2" (2-3/8" O.D.) 3.65LBS/LIN. FT. ASTM-F1083.
3. 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.
4. GATE FRAME: 1 1/2" (1.9" O.D.) PIPE. 2.72 LBS/LIN. FT. ASTM-F1083.
5. 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.
6. 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.
7. TENSION WIRE: MINIMUM 7 GAUGE GALVANIZED STEEL.
8. 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.
9. BARB WIRE GATE GUARDS SHALL BE FITTED WITH DOME CAPS.
10. BARB WIRE SUPPORT ARMS SHALL BE PRESSED STEEL COMPLETE WITH SET BOLT AND LOCK WIRE IN THE ARM.
11. 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.
12. GATE POSTS SHALL BE EXTENDED 12", INCLUDING DOME CAP, TO PROVIDE FOR ATTACHMENT OF BARB WIRE.
13. GATE FRAMES SHALL HAVE A FULL HEIGHT VERTICAL BRACE AND A FULL WIDTH HORIZONTAL BRACE, SECURED IN PLACE BY USE OF GATE BRACE CLAMPS.
14. GATE HINGES SHALL BE MERCHANTS METAL MODEL 64386 HINGE ADAPTER WITH MODEL 6409, 180° ATTACHMENT OR APPROVED EQUAL.
15. GATE LATCH: 1 3/8" O.D. PLUNGER ROD WITH MUSHROOM TYPE CATCH.
16. A 6" BY 1/2" DIAMETER EYEBOLT, TO HOLD TENSION WIRE, SHALL BE PLACED AT LINE POSTS.
17. STRETCHER BARS SHALL BE 3/16" OR HAVE EQUIVALENT CROSS-SECTIONAL AREA.
18. ALL POSTS EXCEPT GATE POSTS SHALL HAVE A COMBINATION CAP AND BARB WIRE SUPPORTING ARM.
19. ALL CAPS SHALL BE MALLEABLE IRON, DOME OR ACORN SHAPED AS REQUIRED BY PIPE SIZE.
20. OTHER HARDWARE MAY INCLUDE BUT NOT BE LIMITED TO THE CLIPS, BAND CLIPS, AND TENSION BAND CLIPS.
21. 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.
22. UNLESS NOTED OTHERWISE, ALL CHAIN LINK FENCING COMPONENTS MUST BE HOT DIPPED GALVANIZED.



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



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

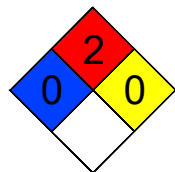
TANK SPECIFICATIONS	
TANK P/N	10000016357
TOTAL TANK CAPACITY	757L [200 GAL]
USABLE TANK CAPACITY	720L [190 GAL]
DRY WEIGHT	420 KG [920 LBS]
TOTAL WEIGHT	1036 KG [1021 LBS]

- 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 BASETANK 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 GROUNDING.



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 NE 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.	

verizon



LAND SURVEYING
ENGINEERING
ARCHITECTURE
DRONE INSPECTION
REAL ESTATE SERVICES

- ☐ TOWER OWNER DRAWINGS
☒ CARRIER DRAWINGS



UNASSIGNED ADDRESS
KLIKITAT, WA 98635
KLIKITAT COUNTY

REVISIONS				
DRAWN BY		CHECKED	APPROVED	
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	



9-11-2025

TITLE
GENERATOR DETAILS

SHEET

A-8

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CONSTRUCTION DOCUMENTS IS PROPRIETARY BY
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THAN THAT WHICH RELATES TO VERIZON
WIRELESS SERVICES IS STRICTLY PROHIBITED.

1.

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.

2.

PROVIDE A METER BASE PER LOCAL UTILITY STANDARDS. MOUNT ON SIDE OF OWNER FURNISHED BACKBOARD.

3.

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).

4.

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.

5.

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.

6.

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-CORROSIVE AGENT SUCH AS "NO-OXY", "NOADLX" 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.

7.

ALL EXTERIOR GROUND BARS SHALL BE COATED WITH ANTI-CORROSIVE AGENT SUCH AS LPS-3 OR AS PER NOT 6 ABOVE.

8.

ALL JUNCTION AND OUTLET BOXES TO BE LABELED WITH KROY TAPE OR APPROVED EQUAL. DESIGNATION ALL CIRCUIT NUMBERS CONTAINED IN EACH BOX.

9.

CONTRACTOR TO ENSURE ILC PROVIDED WITH (2) INTERNAL TVSS.

10.

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.

11.

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.

12.

UTILITY POINTS OF SERVICE AND WORK / MATERIALS SHOWN ARE BASED UPON PRELIMINARY INFORMATION PROVIDED BY THE UTILITY COMPANIES AND ARE FOR BID PURPOSES ONLY.

13.

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 ENCASEMENT 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

NEUTRAL BAR:

YES

HINGED DOOR:

YES

MOUNT:

SURFACE

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		RECTIFIER	2	30A			30A	2	FUTURE RECTIFIER	18		1	2
3	1		18										18	1	4
5	1	18		RECTIFIER	2	30A			30A	2	FUTURE RECTIFIER	18		1	6
7	1		18										18	1	8
9	1	18		RECTIFIER	2	30A								1	10
11	1		18											1	12
13	1	18		RECTIFIER	2	30A									14
15	1		18												
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:

1. ALL CONDUCTORS ARE TYPE THWN (75°C) COPPER.
2. MAXIMUM LENGTH OF RUN FOR RECTIFIER CIRCUITS IS 50FT.
3. INTERSECT/ GENERAC INTEGRATED LOAD CENTER INCLUDES 200 AMP MAIN DISCONNECT AND TRANSFER SWITCH FOR PORTABLE OR PERMANENT GENERATOR.
4. RECTIFIER LOADS ARE CONSIDERED TO BE NON-CONTINUOUS.
5. 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

TO UTILITY TRANSFORMER

UTILITY METER
120/240VAC

M

SERVICE DISCONNECT/
CIRCUIT BREAKER

200A

4 AWG MBJ
4 AWG GEC

3-#3/0 AWG
#6 AWG EG
2" CONDUIT

3-#1/0 AWG
6 AWG EG
1-1/2" CONDUIT

200A ILC

CAM LOCK

C

200A

200A

VERIZON WIRELESS ILC CABINET
WITH 2P/200A UTILITY BREAKER
AND OPTIONAL 2P/200A CAM
LOCK BREAKER MECHANICALLY
INTERLOCKED WITH WALKING
BEAM TRANSFER SWITCH AND
30 POSITION LOAD CENTER

INTEGRATED
LOAD
CENTER

3-#12 AWG
#12 AWG EG
1" CONDUIT

GFCI
RECPT.

LIGHT

4-#12 AWG,1-#12 AWG EG,
1" CONDUIT (FOR GEN HEATER & BATT. CHARGER)

1" CONDUIT FOR GEN & ILC ALARMS

PRIMARY
CABINET

8-#10 AWG, 1-#10 AWG EG,
IN (1) 1-1/2" CONDUIT
(INSTALL (1) 1-1/2" CONDUIT
WITH PULL STRING FOR FUTURE
RECTIFIER CIRCUITS) ROUTE
CONDUIT ABOVE GROUND
SECURED TO EQUIPMENT FRAME

12-#6 AWG (6 PAIRS)
#6 AWG EG
1-1/2" LMFC

OVP-12

30KW 120/240 V. DIESEL
GENERATOR WITH 150A MAIN
BREAKER. GENERATOR IS IN A
NEMA 3R ENCLOSURE.
SUPPLIED WITH 1500W 120V
BLOCK HEATER.

NOTE: THE GENERATOR USED
IN CONJUNCTION WITH A
2-POLE ILC WITH A SOLID
NEUTRAL IS NOT A
SEPARATELY DERIVED SYSTEM.
AS SUCH, DO NOT BOND THE
NEUTRAL TO GROUND AT THE
GENERATOR

GEN MAIN
DISCONNECT/
FUSED SWITCH

150A

30KW
GEN

ELECTRICAL ONE LINE DIAGRAM

NOTES:
1. ALL EQUIPMENT SHALL BE NEMA 3R RATED.
2. ALL EQUIPMENT SHALL BE LIGHTNING PROTECTED IN ACCORDANCE WITH TIA-222-G AND VERIZON WIRELESS STANDARDS.
3. 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%).
4. WIRE SIZING AND MAXIMUM DISTANCE FROM GENERATOR TO ILC ASSUMES POWER FACTOR OF 0.9.
5. 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.

RYKA

LAND SERVICES

LAND SURVEYING
ENGINEERING
ARCHITECTURE
DRONE INSPECTION
REAL ESTATE SERVICES

TOWER OWNER DRAWINGS

CARRIER DRAWINGS

ALT 1

UNASSIGNED ADDRESS
KLICKITAT, WA 98635
KLICKITAT COUNTY

REVISIONS				
DRAWN BY		CHECKED	APPROVED	
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	

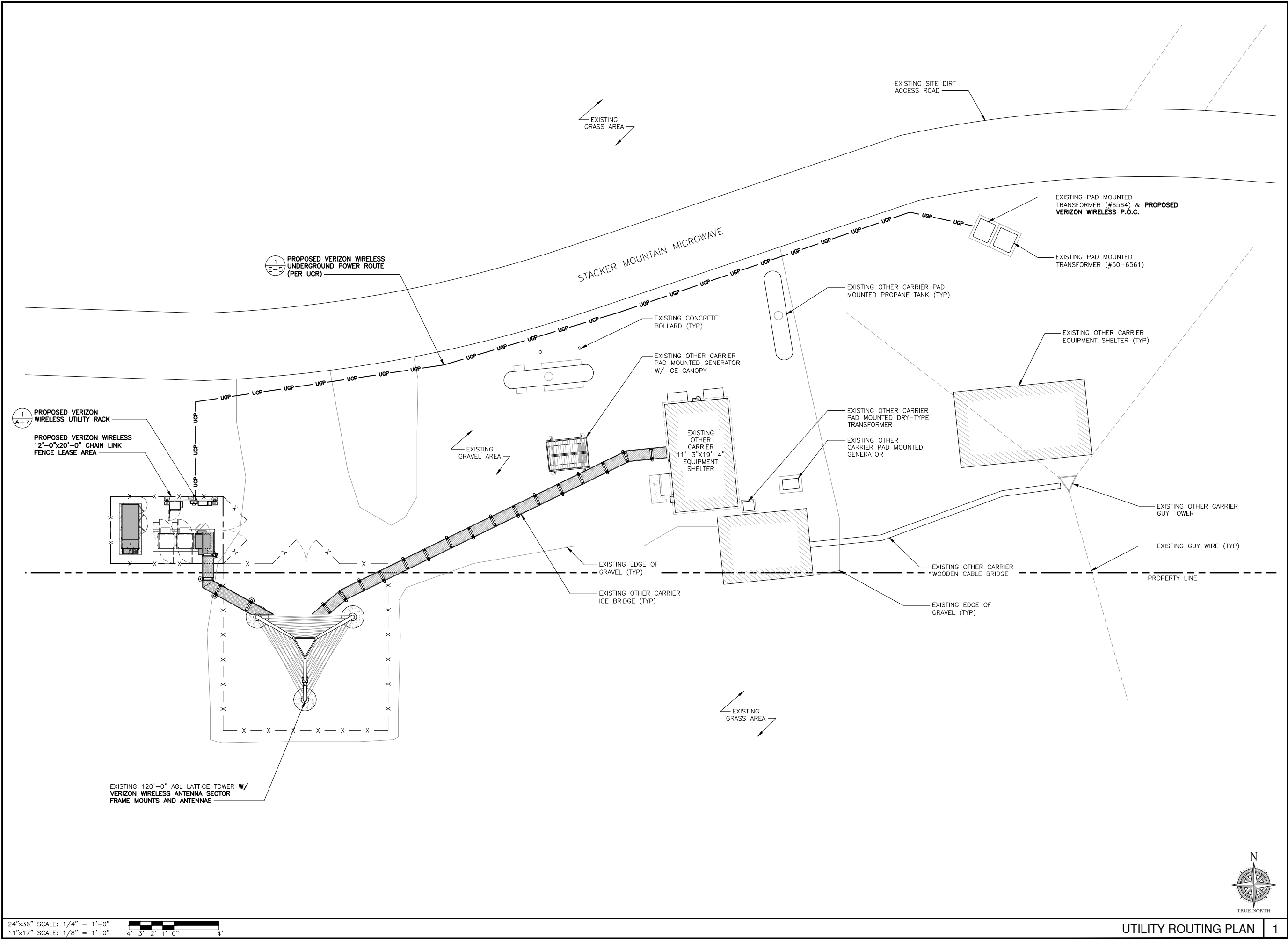
TITLE

ONE-LINE DIAGRAM, PANEL SCHEDULE
& GENERAL NOTES

SHEET

E-1

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☐ TOWER OWNER DRAWINGS
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KLICKITAT COUNTY

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

9-11-2025

TITLE
UTILITY ROUTING PLAN

SHEET
E-2

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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).

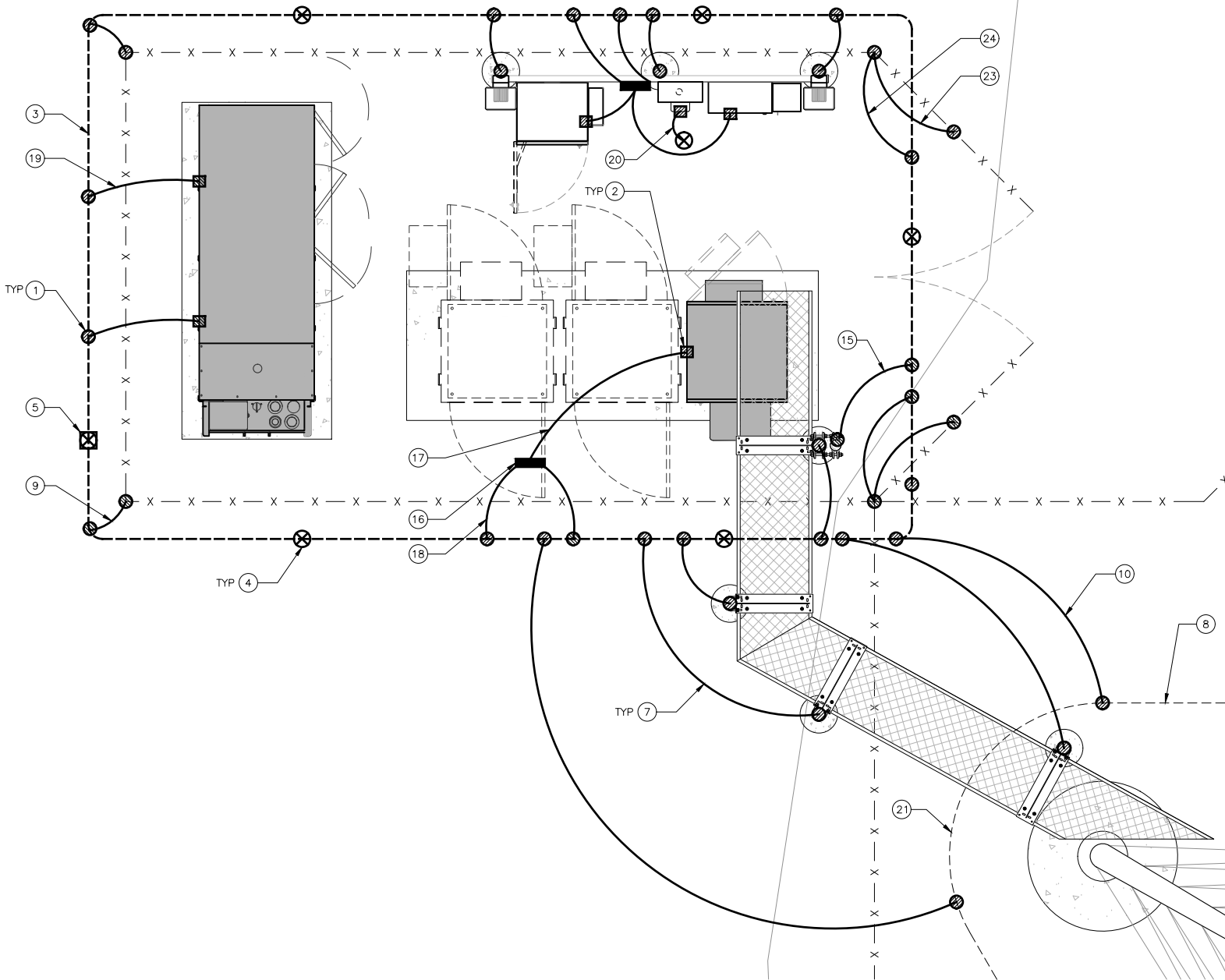
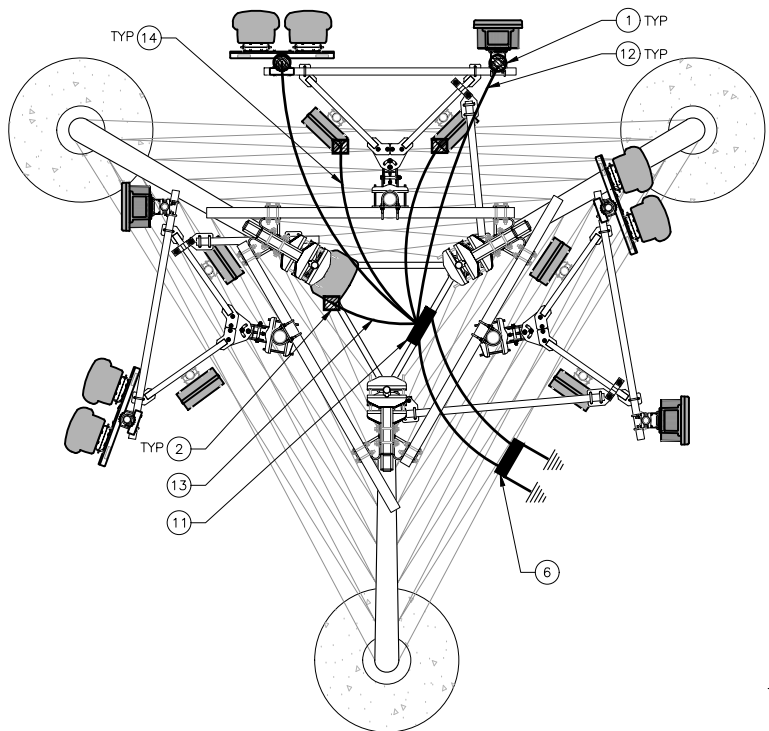
- ⑪ ANTENNA GROUND BAR AT ANTENNA LEVEL TIED INTO EXISTING LOWER TOWER GROUND BAR
- ⑫ #6 AWG ANTENNA MOUNT GROUND TO ANTENNA GROUND BAR (TYP). SEE SHEET E-4.
- ⑬ #6 AWG OVP GROUND TO ANTENNA GROUND BAR (TYP). SEE SHEET E-4.
- ⑭ #6 AWG RRU MOUNT GROUND TO ANTENNA GROUND BAR (TYP). SEE SHEET E-4.
- ⑮ #6 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.

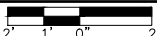
SYMBOL DESCRIPTION

- ⊗ 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



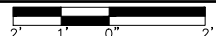
24"x36" SCALE: 3/8" = 1'-0"
11"x17" SCALE: 3/16" = 1'-0"



ANTENNA SCHEMATIC GROUNDING PLAN

2

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



EQUIPMENT SCHEMATIC GROUNDING PLAN

1

verizon

RYKA
LAND SERVICES

LAND SURVEYING
ENGINEERING
ARCHITECTURE
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REAL ESTATE SERVICES



- ☐ TOWER OWNER DRAWINGS
- ☒ CARRIER DRAWINGS

ALT 1

UNASSIGNED ADDRESS
KLICKITAT, WA 98635
KLICKITAT COUNTY

REVISIONS

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



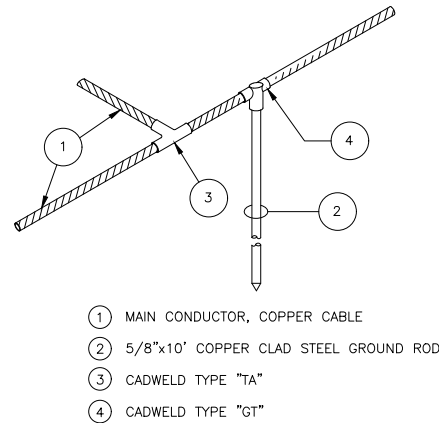
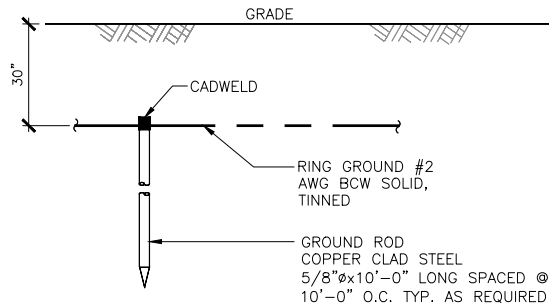
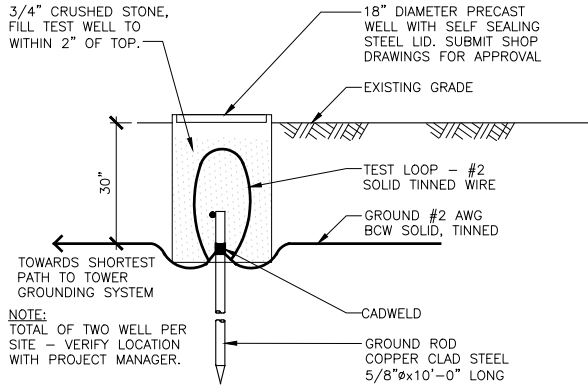
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TITLE
SCHEMATIC GROUNDING PLANS

SHEET

E-3

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

TEST/INSPECTION WELL

9

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

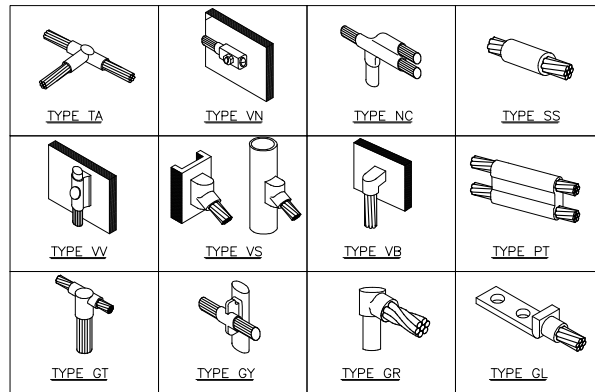
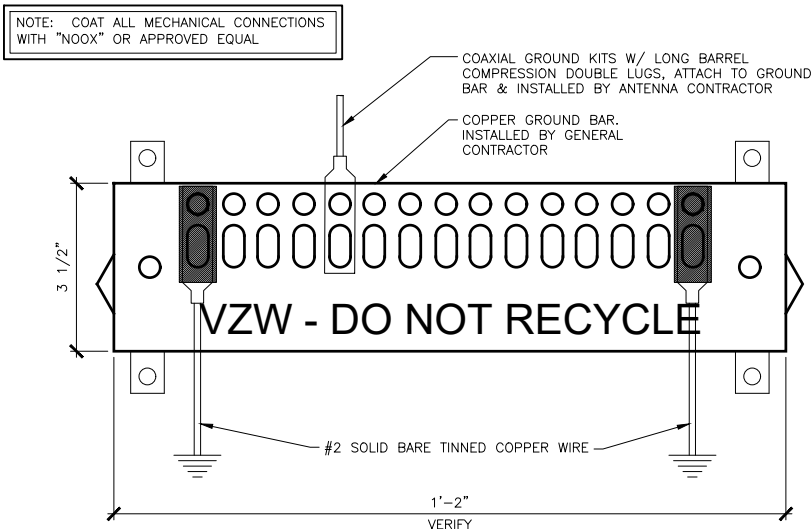
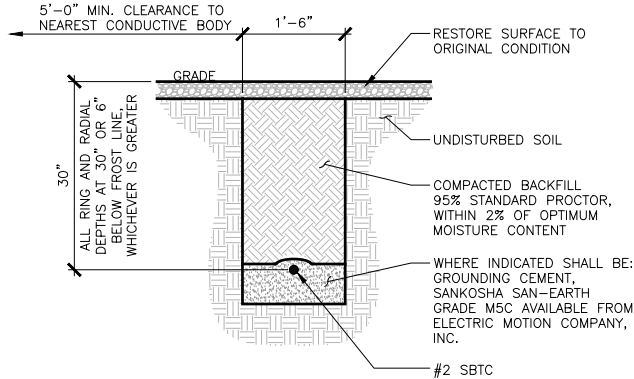
GROUND ROD

8

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

GROUND RING BONDING

7



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

GROUND RING

6

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

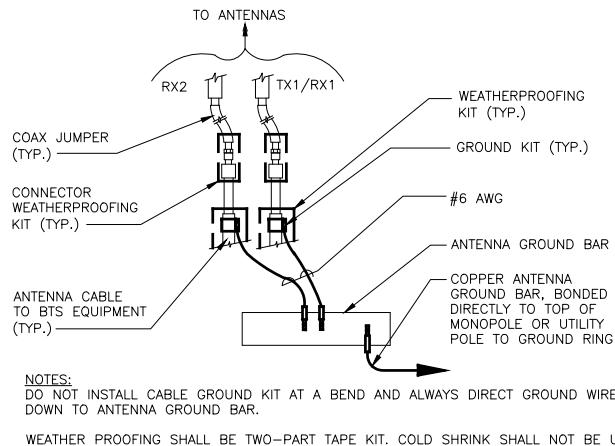
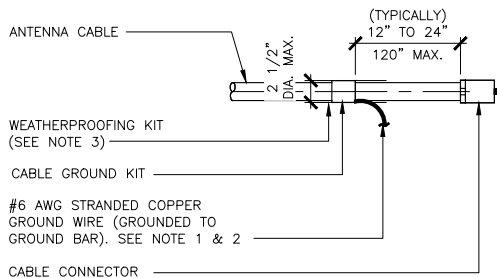
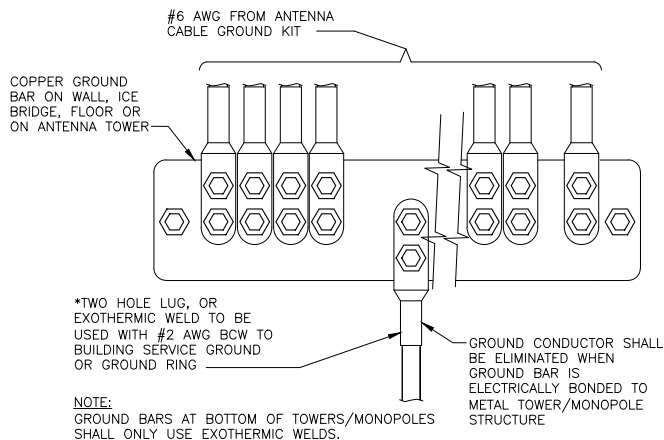
GROUND BAR

5

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

CADWELD GROUNDING CONNECTIONS

4



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

GROUND WIRE INSTALLATION

3

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

CABLE GROUND KIT CONNECTIONS

2

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

GROUNDING CABLE CONNECTIONS

1

verizon

RYKA
LAND SERVICES

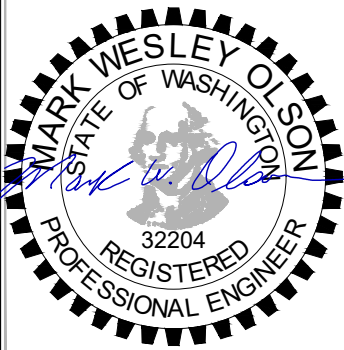
LAND SURVEYING
ENGINEERING
ARCHITECTURE
DRONE INSPECTION
REAL ESTATE SERVICES

☐ TOWER OWNER DRAWINGS
☒ CARRIER DRAWINGS

ALT 1

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KLICKITAT, WA 98635
KLICKITAT COUNTY

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RDL		DRA	MWO	
REV.	DATE	DESCRIPTION		BY
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TITLE
GROUNDING DETAILS

SHEET

E-4

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REAL ESTATE SERVICES

- ☐ TOWER OWNER DRAWINGS
- ☒ CARRIER DRAWINGS

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KLICKITAT COUNTY

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RLD		DRA	MWO	
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9-11-2025

TITLE
UTILITY TRENCH & GROUNDING DETAILS

SHEET

E-5

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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.
24"x36" SCALE: N.T.S. 11"x17" SCALE: N.T.S.		FENCE GATE GROUNDING 2		TYPICAL UTILITY TRENCH 1	

NOTES:

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