

# Land Use Application

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Applicant(s):

Centerline Solutions – Corrine Albrecht,  
Site Acquisition Specialist

Property Owner(s):

Barbara C. Sexton

Mailing Address:

6623 NE 78<sup>th</sup> Ct, Ste B-1  
Portland, OR 97218

Mailing Address:

PO Box 952  
Lyle, WA 98635

Phone: 971-270-1930  
Ext. 5003

Phone: 541-993-5374

Email:  
calbrecht@centerlinesolutions.com

Email: madison@gorge.net

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## Location of property:

Township: 3N

Range: 12E

Parcel address: 20 Balch Road, Lyle, WA  
98635

Section & Qtr. Section: NW ¼ of  
Section 28, Willamette Meridian

County: Klickitat

Tax Lot No(s): 03-12-2800-  
0006/00

Parcel Size (acres):

Existing use of parcel:

Bonneville Power Administration has a transmission tower located on the parcel, with an existing Verizon Wireless cell site/equipment located on the tower.

Use of adjacent parcels: Urban rural

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**Project description:** This should include all proposed activities and details on size, height, exterior colors, and construction materials of proposed structures. Any areas of ground disturbance and landscaping details should also be described. It is important to describe all aspects of your project so that you may gain approval for all of the development activities you plan to do.

Please see the attached Construction Drawings for precise details. Verizon

Wireless is proposing to upgrade their equipment located at 40' centerline on the existing 76' BPA transmission tower. Proposed removal of (3) existing panel antennas & 6 existing RRUs, with installation of (6) new panel antennas, (6) new RRUs, (2) surge protectors (1 mounted near ground equipment & 1 mounted near the antennas) and (1) new hybrid cable. There will be no change to the existing lease area or ground equipment. No tower extension is required, and there will not be a significant impact/change to the current view of the tower.

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**Application checklist:** The following is required to complete your application:

- Application form completed and signed
- Site plan
- Key viewing areas checklist, elevation drawings, and landscape details, if required
- Names and addresses of adjacent property owners, if required
- Any additional information as required

Signature of the property owner(s) indicates that the property owner(s) is/are aware that an application is being made on the subject property. **Signature of the property owner(s) also authorizes the Gorge Commission or the Commission's designee(s) reasonable access to the site in order to evaluate the application.**

**Applicant(s) signature:**

date

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*Corinne Alcott*

date 1/16/19

**Property owner(s) signature:**

date

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*Barbara Sutton*

date 1-13-2019



# PTL ROCKY FLAT

20 BALCH ROAD  
LYLE, WASHINGTON 98635

## CONSTRUCTION DRAWINGS



### PROJECT SUMMARY

THIS PROJECT INCLUDES THE FOLLOWING SCOPE OF WORK:

1. PROPOSED MODIFICATION OF AN EXISTING TELECOMMUNICATIONS FACILITY.
2. PROPOSED REMOVAL OF (3) EX. PANEL ANTENNAS, (6) EX. RRUS
3. INSTALLATION OF (6) PANEL ANTENNAS W/ RET EQUIPMENT AS REQUIRED, (6) REMOTE RADIO UNITS (RRUs), (2) SURGE PROTECTORS ((1) MOUNTED NEAR GROUND EQUIPMENT, (1) MOUNTED NEAR ANTENNAS) AND (1) HYBRID CABLES.

### GOVERNING CODES

#### GOVERNING CODES

IBC-2015, INTERNATIONAL BUILDING CODE W/ LOCAL AMENDMENTS  
NEC-2014, NATIONAL ELECTRICAL CODE

A.D.A. COMPLIANCE  
INSTALLATION IS UNMANNED AND NOT FOR HUMAN HABITATION.  
HANDICAP ACCESS IS NOT REQUIRED PER A.D.A.

### SITE INFORMATION

SITE NAME: PTL ROCKY FLAT  
SITE ADDRESS: 20 BALCH ROAD  
LYLE, WASHINGTON 98635

LATITUDE: 45° 43' 13.72" N (45.720478° N)  
LONGITUDE: 121° 19' 12.90" W (-121.32025° W)  
SOURCE: AS-BUILTS

PARCEL NUMBER: 03-12-2800-0006/00  
ZONING CLASSIFICATION: GR GENERAL RURAL  
JURISDICTION: KLIKITAT COUNTY  
GROUND ELEVATION: 789' AMSL  
TOP OF (E) STRUCTURE: 76' AGL

OCCUPANCY GROUP: U  
CONSTRUCTION TYPE: II-B

### PROJECT CONTACTS

APPLICANT  
VERIZON WIRELESS  
5430 NE 122ND AVE  
PORTLAND, OR 97230

PROPERTY OWNER  
BARBARA SEXTON  
P.O. BOX 952 LYLE, WA 98635  
509.365.5374

TOWER OWNER  
BONNEVILLE POWER ADMINISTRATION  
TIM MURRAY  
360.619.6328

CONSTRUCTION ENGINEER  
VERIZON WIRELESS  
185 MAPLE STREET  
EUGENE, OR 97402  
PH: 541-401-0001

ZONING AND PERMITTING CONSULTANT  
CENTERLINE SOLUTIONS  
6623 NE 78TH COURT, SUITE B1  
PORTLAND, OR 97218  
CORRINE ALBRECHT  
PH: 971.270.1930, EXT. #5003

SITE ACQUISITION CONSULTANT  
CENTERLINE SOLUTIONS  
6623 NE 78TH COURT, SUITE B1  
PORTLAND, OR 97218  
CORRINE ALBRECHT  
PH: 971.270.1930, EXT. #5003

STRUCTURAL ENGINEER  
VECTOR STRUCTURAL ENGINEERING, LLC  
651 W GALENA PARK BLVD, SUITE 101  
DRAPER, UT 84020  
WELLS L. HOLMES, S.E.  
PH: 801.990.1775  
WWW.VECTORSE.COM

ENGINEER OF RECORD  
CENTERLINE SOLUTIONS  
16035 TABLE MOUNTAIN PARKWAY  
GOLDEN, CO 80403  
CHRISTOPHER SCOTT, P.E.  
PH: 303.993.3293

### DRAWING INDEX

SHEET	DESCRIPTION
T1.0	TITLE SHEET
A1.0	OVERALL SITE PLAN
A1.1	ENLARGED SITE PLAN
A2.0	ELEVATION & DETAILS
A3.0	ANTENNA PLANS & EQUIPMENT SCHEDULE
A4.0	EQUIPMENT DETAILS
A4.1	EQUIPMENT DETAILS
RF1.0	RF DETAILS
GN1.0	GENERAL NOTES

### PROJECT VICINITY MAP



### DRIVING DIRECTIONS

FROM VERIZON WIRELESS PORTLAND, OREGON OFFICE:

1. HEAD SOUTHWEST ON NE 122ND AVE TOWARD NE WHITAKER WAY, AND TURN LEFT TO MERGE ONTO I 84 E/ US-30 E TOWARD TROUTDALE/HOOD RIVER (1.5 MI)
2. FOLLOW I-84 E TO BUTTON BRIDGE RD/ MT. HOOD HWY IN HOOD RIVER. TAKE EXIT 64 FROM I-84 (54 MI)
3. TAKE WA-14 AND OLD HWY 8/OLD HWY NUMBER 8 TO YOUR DESTINATION IN KLIKITAT COUNTY

ESTIMATED TIME: 74 MINUTES  
ESTIMATED DISTANCE: 67 MILES

### DRAWING LEGEND

---	SUBJECT PROPERTY LINE
- - - - -	ADJACENT PROPERTY LINE
— COAX — COAX	COAX ROUTE
— HYBRID — HYBRID	HYBRID CABLE ROUTE
— OH-T — OH-T	OVERHEAD TELCO ROUTE
— OH-F — OH-F	OVERHEAD FIBER ROUTE
— OH-P — OH-P	OVERHEAD POWER ROUTE
— UG-T — UG-T	UNDERGRND. TELCO ROUTE
— UG-F — UG-F	UNDERGRND. FIBER ROUTE
— UG-P — UG-P	UNDERGRND. POWER ROUTE
— F/P — F/P	FIBER / POWER ROUTE
— X — X — X	NEW / EXISTING FENCE
	ELEVATION MARKER
	DETAIL REFERENCE
	SECTION MARKER

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 CORPORATION SERVICES IS STRICTLY PROHIBITED.

### FINAL CONSTRUCTION DRAWINGS SIGN OFF

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

CONSULTANT	SIGNATURE	DATE
SITE ACQUISITION		
PERMITTING CONSULTANT		
RF ENGINEER:		
CONST. MNGR.		
OPS MNGR.		
PROJECT MNGR.		
REGULATORY REV.		
DEV. MNGR.		



CP PROJECT NO.: VER-18-0022-9

PRELIMINARY			
NO.	DATE	D/C	DESCRIPTION
0	11-26-18	VP/APT	90% CD REVIEW

SUBMITTAL			
NO.	DATE	D/C	DESCRIPTION
0	12-05-18	VP/AT	BP SUBMITTAL

**SITE NAME:**  
PTL ROCKY FLAT

**SITE ADDRESS:**  
20 BALCH ROAD  
LYLE, WASHINGTON 98635

**SHEET TITLE**  
TITLE SHEET

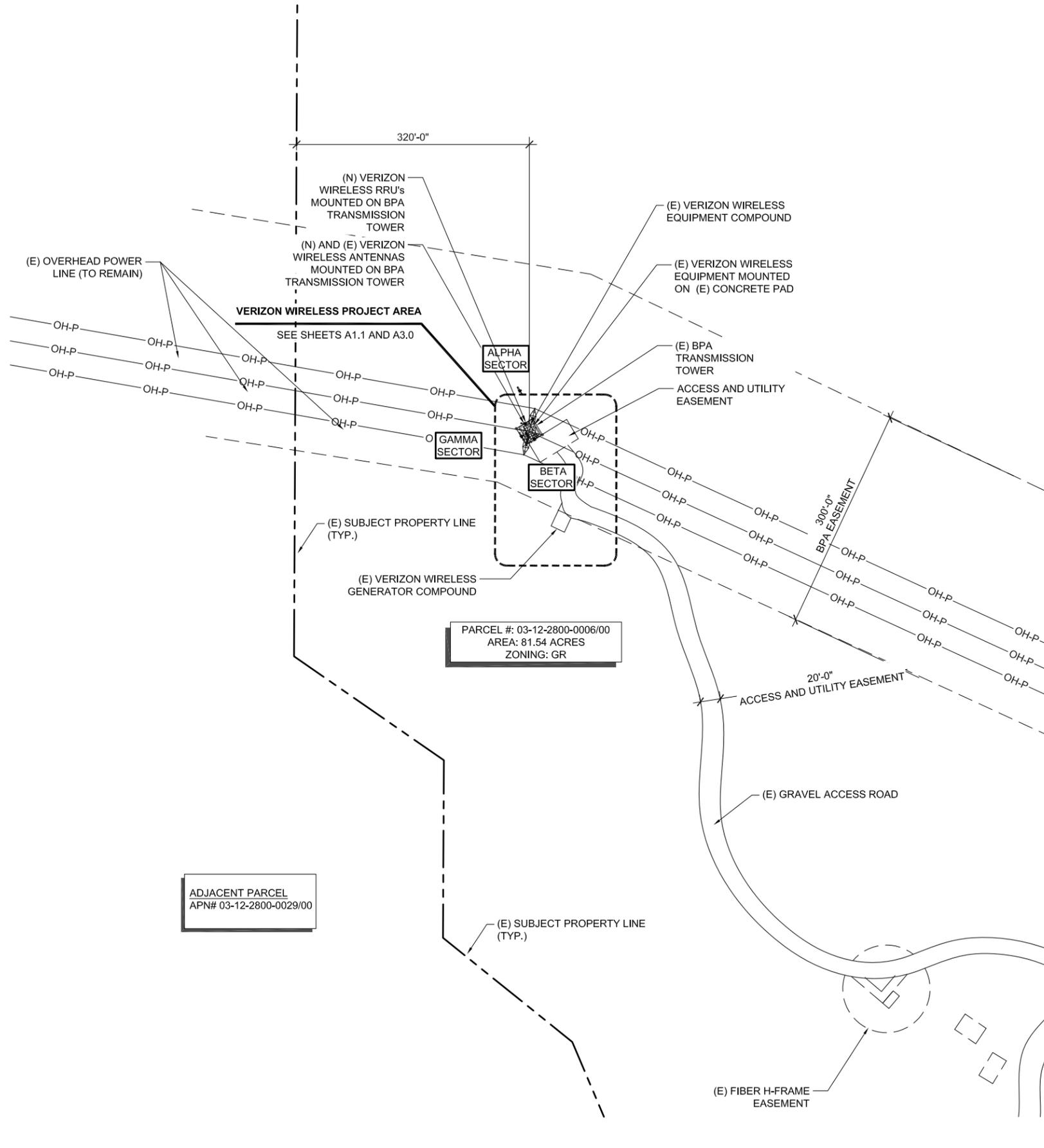
**SHEET NO.**  
T1.0



Know what's below.  
Call before you dig.

# NOTES & REQUIREMENTS

- NO SITE WORK CAN BEGIN UNTIL THE BPA REIMBURSABLE AGREEMENT IS SIGNED BY BOTH PARTIES AND THE REQUIRED FUNDING IS RECEIVED BY BPA.
- NO SITE WORK CAN COMMENCE UNTIL BPA HAS ISSUED AND APPROVED A FINAL SET OF CONSTRUCTION DRAWINGS. THE CONTRACTOR IS REQUIRED TO HAVE A COPY OF THE "APPROVED FOR CONSTRUCTION" DRAWINGS ON SITE AT ALL TIMES.
- A DESIGNATED BPA REPRESENTATIVE MUST BE ON SITE AT ALL TIMES THAT WORK IS BEING DONE BY THE CONTRACTOR. THIS REQUIREMENT CAN BE MODIFIED ONLY WITH THE APPROVAL OF THE BPA PROJECT ENGINEER.
- THE LOCATION OF THE CONDUIT AND RESULTING FIBER MUST BE MARKED BY BPA-PROVIDED OMNI BALLS USING APPROVED BPA PROTOCOLS AND STANDARDS. FURTHER THE CONTRACT IS REQUIRED TO INSTALL MARKER POSTS WITH PROPER DECALS AND CONTACT NUMBERS. THE DESIGNATED BPA REPRESENTATIVE WILL PROVIDE THE OMNI BALLS AND WILL OVERSEE THE PLACEMENT OF THE OMNI BALLS AND PLACEMENT OF THE MARKER POSTS.
- SPECIAL CARE NEEDS TO BE TAKEN BY THE CONTRACTOR IN THE VICINITY OF THE TOWER SO THAT DAMAGE IS NOT DONE TO THE GROUNDING SYSTEMS THAT ARE LOCATED AROUND FENCING AND EQUIPMENT PADS OF THE EXISTING WIRELESS GROUND FACILITIES. FURTHER CARE MUST BE TAKEN TO AVOID DAMAGE TO THE CATHODIC PROTECTION SYSTEM THAT EXTENDS OUTWARD FROM EACH TOWER LEG. THE DESIGNATED BPA REPRESENTATIVE WILL PROVIDE GUIDANCE ON OVERSIGHT TO HELP ASSURE THAT THESE UNDERGROUND SYSTEMS ARE NOT COMPROMISED.
- NO TRACER WIRE OR ANY METALLIC OBJECTS ARE TO BE INSTALLED IN OR IN PROXIMITY TO THE INSTALLED CONDUITS ON BPA FEE PROPERTY OR WITHIN BPA RIGHTS-OF-WAY.
- ALL FIBER OPTIC IS TO BE DIELECTRIC - NO METALLIC COMPONENT WITHIN OR ADJACENT TO THE INSTALLED FIBER IS ALLOWED ON BPA FEE PROPERTY OR WITHIN BPA RIGHTS-OF-WAY.
- NO INSTALLATION OF THE FIBER OPTIC CABLE IS ALLOWED UNLESS THERE IS A DESIGNATED BPA REPRESENTATIVE ON SITE.
- IF ANY GROUNDS OR WIRE LEADS ARE DAMAGED WORK NEEDS TO STOP AND THE DESIGNATED BPA REPRESENTATIVE WILL PROVIDE GUIDANCE. ANY DAMAGE TO THE #4/0 STRANDED COPPER GROUND RINGS NEEDS TO BE REPAIRED USING EXOTHERMIC WELDS - NOT MECHANICAL REPAIRS ARE ALLOWED. THE DESIGNATED BPA ON-SITE REPRESENTATIVE WILL PROVIDE GUIDANCE ON HOW REPAIRS ARE TO BE MADE.
- A FINAL SET OF 'AS-BUILT' CDS MUST BE PROVIDED TO BPA IF THERE ARE ANY CHANGES MADE FROM WHAT IS APPROVED ON THE CONSTRUCTION DRAWINGS.
- THE CONTRACTOR IS REQUIRED TO PROVIDE SUITABLE PORTABLE TOILET FACILITIES TO BE ON SITE AT ALL TIMES THAT WORK IS BEING DONE.
- THE CONTRACTOR NEEDS TO PROVIDE THE BPA PROJECT MANAGER A SCHEDULE FOR THIS WORK AT LEAST 3-DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION.
- WORK IS AUTHORIZED ONLY DURING NORMAL WORKING HOURS FROM 7:00 AM - UNTIL DUSK. NO NIGHT WORK IS AUTHORIZED UNLESS APPROVED IN ADVANCE BY THE BPA PROJECT MANAGER.
- SITE MUST BE RETURNED TO THE PRE-EXISTING CONDITIONS OR BETTER FOLLOWING CONSTRUCTION. ALL EXCESS MATERIALS WILL BE REMOVED AND THE SITE WILL BE LEFT IN GOOD CONDITION.
- CONTRACTOR IS REQUIRED TO MEET ALL LOCAL JURISDICTION REQUIREMENTS DEALING WITH TRAFFIC CONTROLS.
- BPA WILL REQUIRE A PRE-CONSTRUCTING MEETING JUST PRIOR TO THE START OF ANY AND ALL GROUND WORK. THE BPA PROJECT MANAGER AND BPA'S ON-SITE OVERSIGHT PERSON WILL ATTEND. NO WORK IS AUTHORIZED UNTIL THIS PRE-CONSTRUCTION/SAFETY MEETING IS CONDUCTED BY BPA. ADDITIONAL SAFETY ITEMS MAY BE ADDED AT THE PRE-CONSTRUCTION MEETING.



CP PROJECT NO.: VER-18-0022-9

PRELIMINARY			
NO.	DATE	D/C	DESCRIPTION
0	11-26-18	VP/APT	90% CD REVIEW

SUBMITTAL			
NO.	DATE	D/C	DESCRIPTION
0	12-05-18	VP/AT	BP SUBMITTAL

**SITE NAME:**  
PTL ROCKY FLAT

**SITE ADDRESS:**  
20 BALCH ROAD  
LYLE, WASHINGTON 98635

**SHEET TITLE**  
OVERALL  
SITE PLAN

**SHEET NO.**  
A1.0



12/06/2018

CP PROJECT NO.: VER-18-0022-9

**PRELIMINARY**

NO.	DATE	D/C	DESCRIPTION
0	11-26-18	VP/APT	90% CD REVIEW

**SUBMITTAL**

NO.	DATE	D/C	DESCRIPTION
0	12-05-18	VP/AT	BP SUBMITTAL

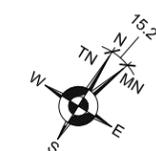
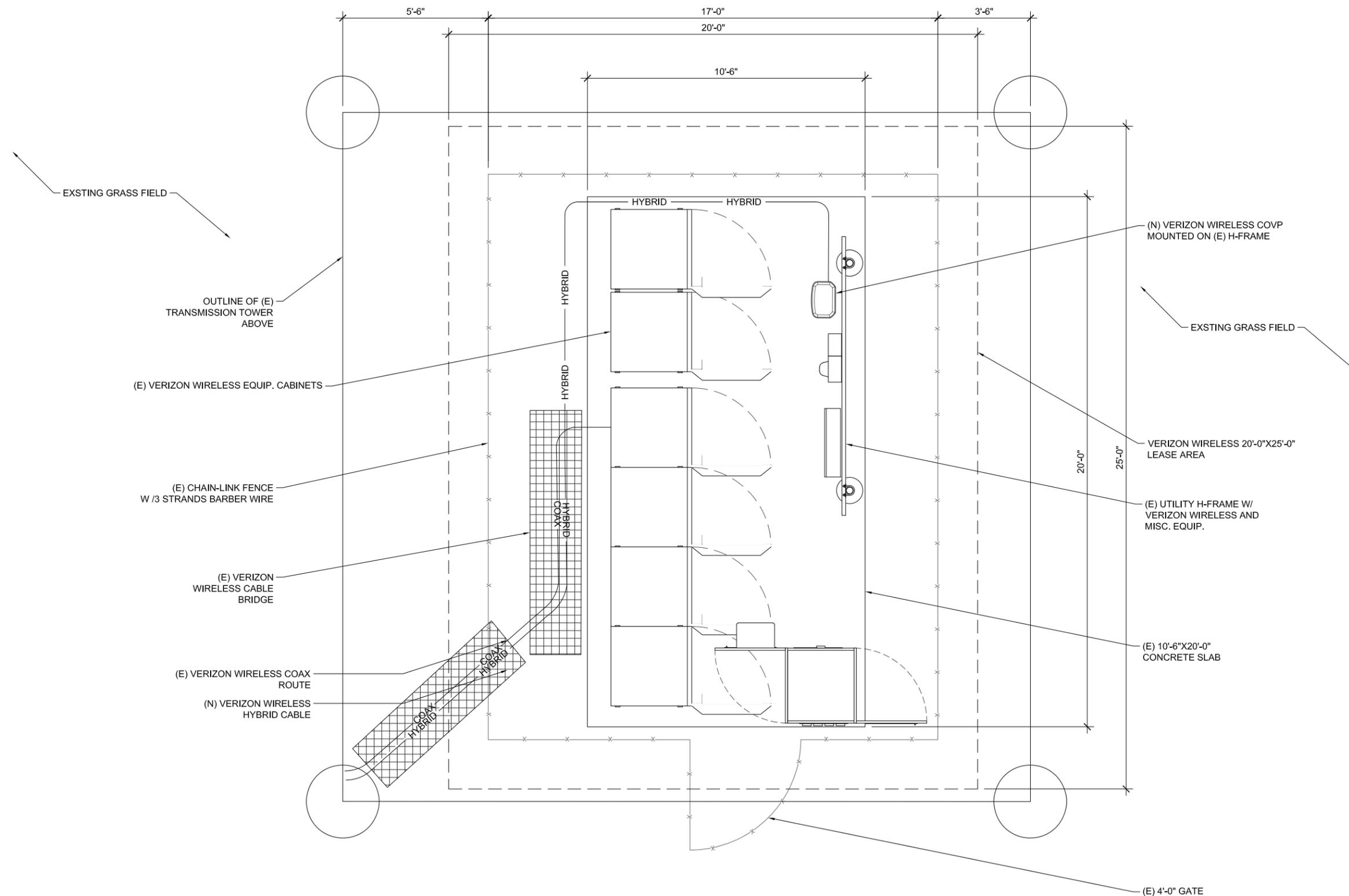
**SITE NAME:**  
PTL ROCKY FLAT

**SITE ADDRESS:**  
20 BALCH ROAD  
LYLE, WASHINGTON 98635

**SHEET TITLE**  
ENLARGED  
SITE PLAN

**SHEET NO.**

**A1.1**





12/06/2018

CP PROJECT NO.: VER-18-0022-9

PRELIMINARY

NO.	DATE	D/C	DESCRIPTION
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SUBMITTAL

NO.	DATE	D/C	DESCRIPTION
0	12-05-18	VP/AT	BP SUBMITTAL

SITE NAME:  
PTL ROCKY FLAT

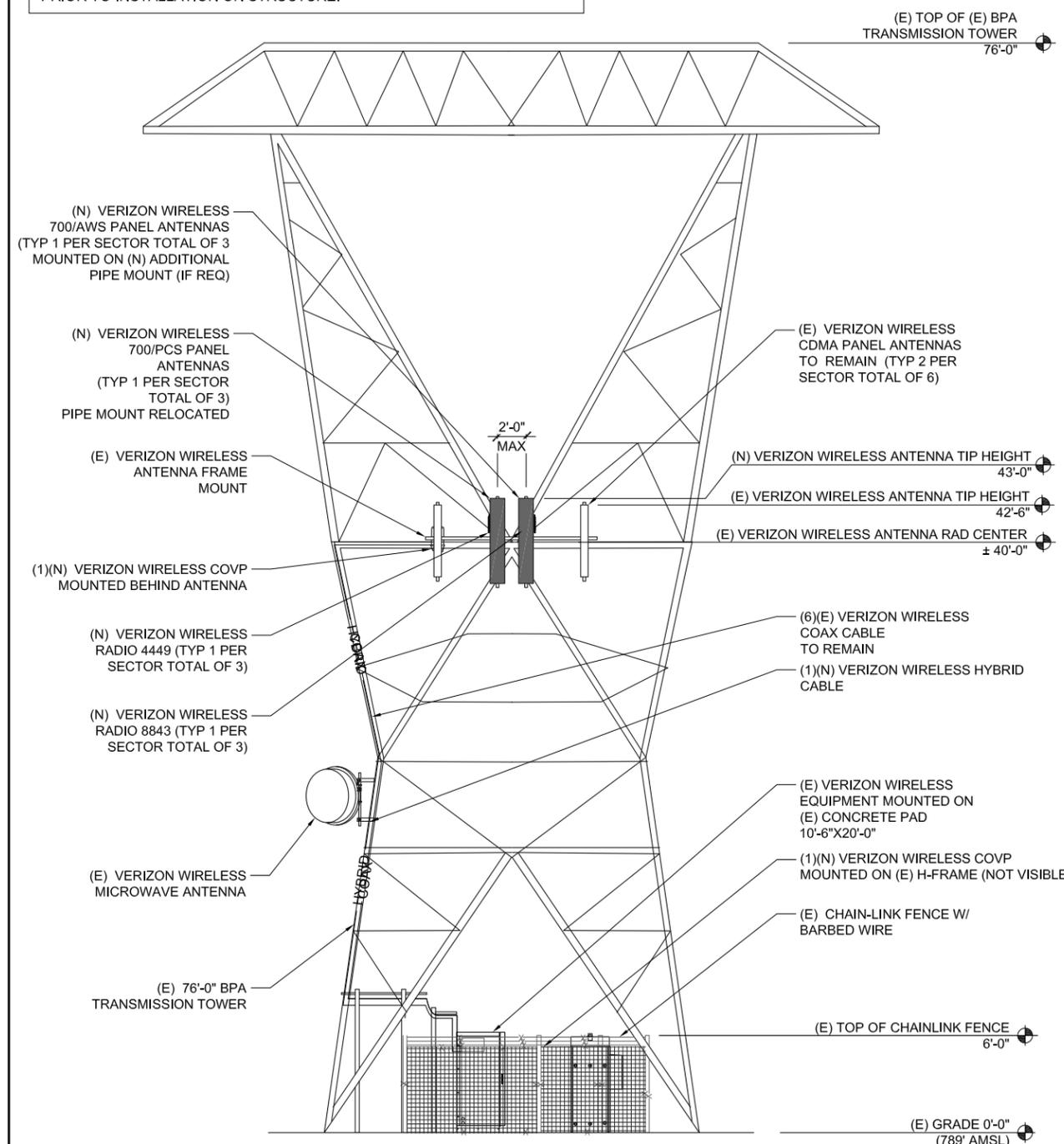
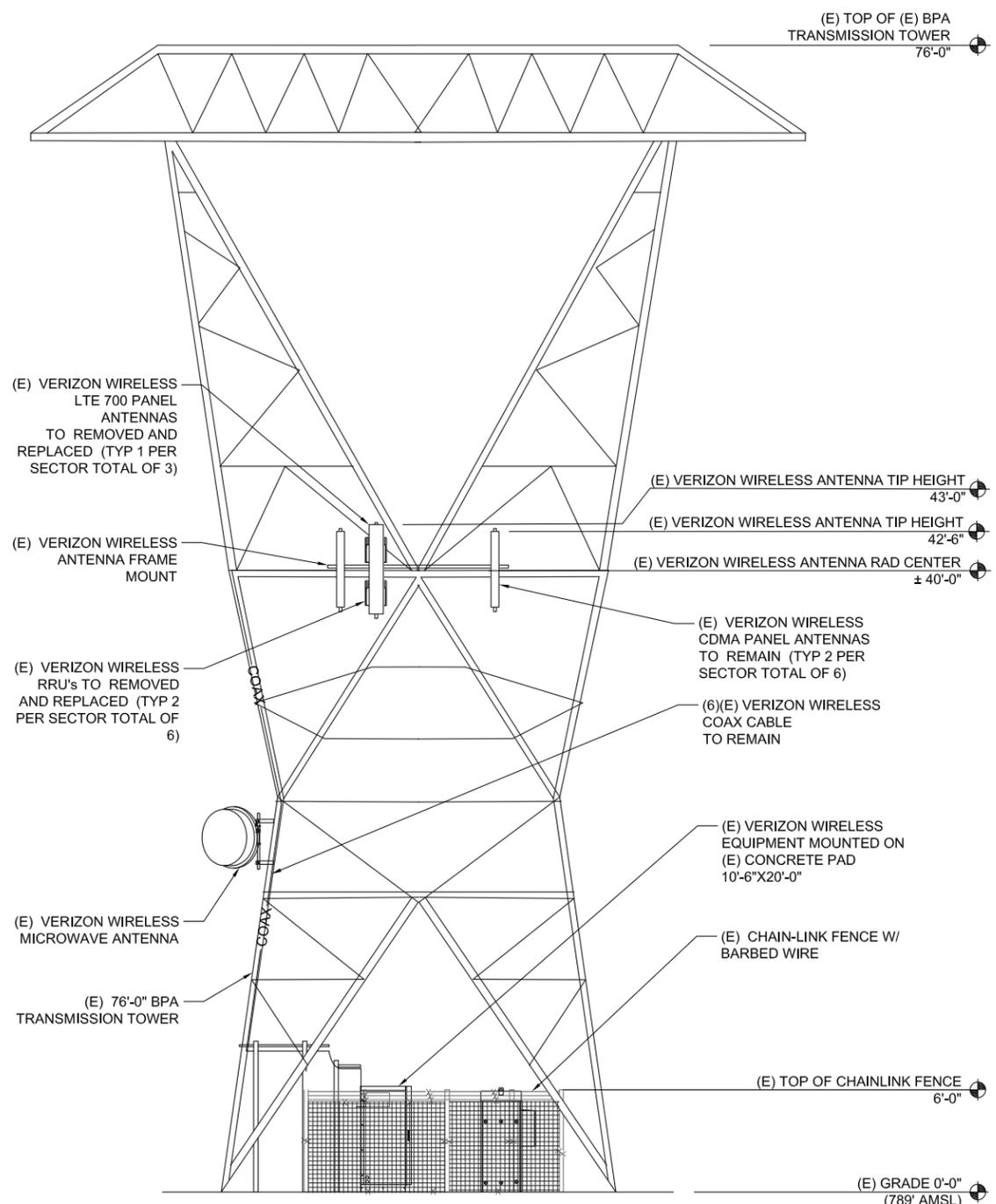
SITE ADDRESS:  
20 BALCH ROAD  
LYLE, WASHINGTON 98635

SHEET TITLE  
ELEVATION &  
DETAILS

SHEET NO.

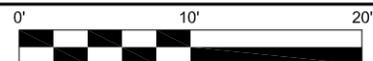
A2.0

**STRUCTURAL NOTES / VERIZON**  
**STRUCTURAL SERVICES COMPLIANCE NOTE:**  
 NO WORK SHALL COMMENCE WITHOUT THE APPROVED STRUCTURAL TOWER/ANTENNA/ MOUNT ANALYSIS REPORT (SIGNED AND SEALED) TO BE PROVIDED UNDER SEPARATE COVER. CONTRACTOR PRIOR TO CONSTRUCTION SHALL REVIEW THE APPROVED TOWER/ANTENNA/MOUNT ANALYSIS REPORT SUPPLIED BY VERIZON AND MODIFY IF REQUIRED ALL APPLICABLE MEMBERS AS INDICATED IN CERTIFIED STRUCTURAL REPORT PRIOR TO INSTALLATION ON STRUCTURE.



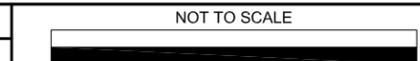
1 (E) SOUTHEAST ELEVATION

SCALE: 3/32" = 1'-0" (11X17)  
SCALE: 3/16" = 1'-0" (22X34)



2 (P) SOUTHEAST ELEVATION

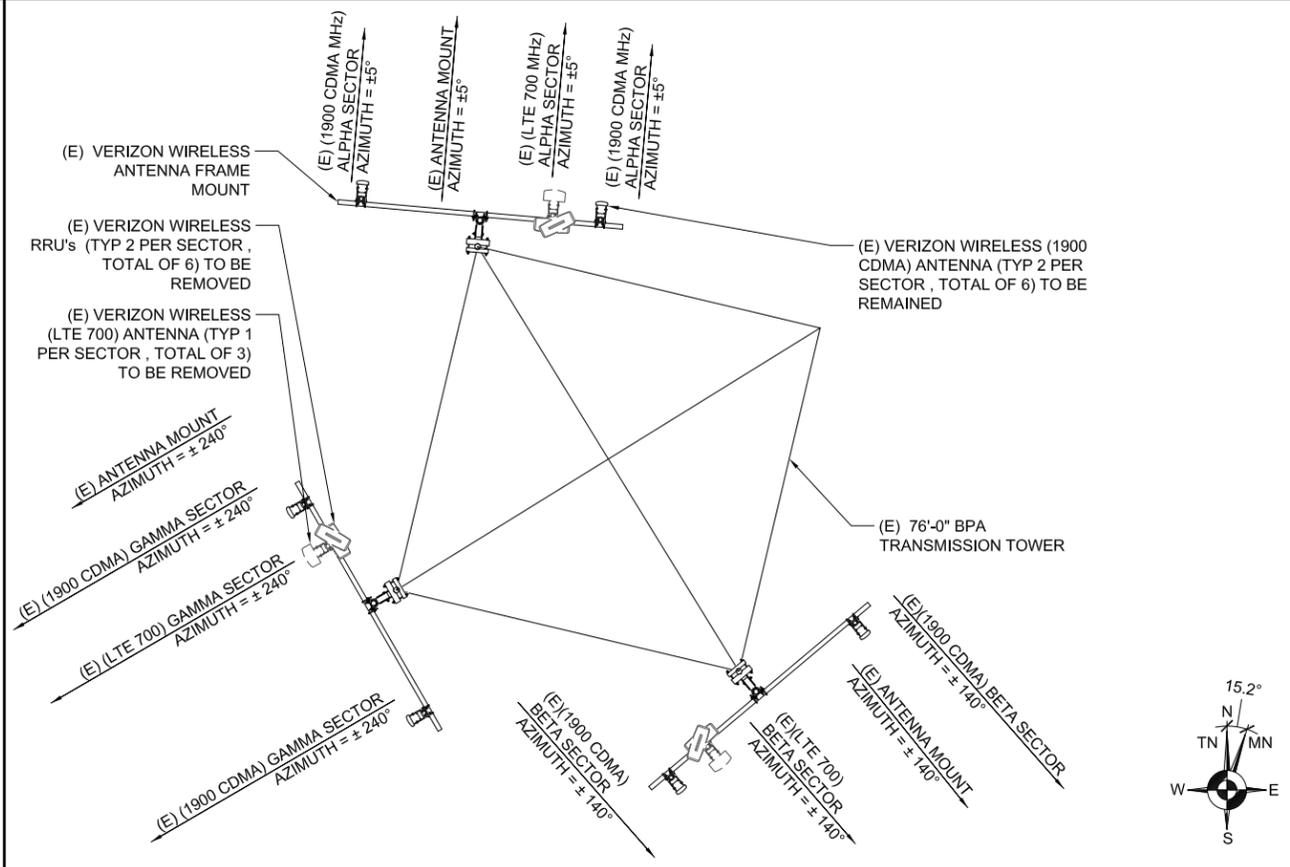
SCALE: NTS  
SCALE: NTS



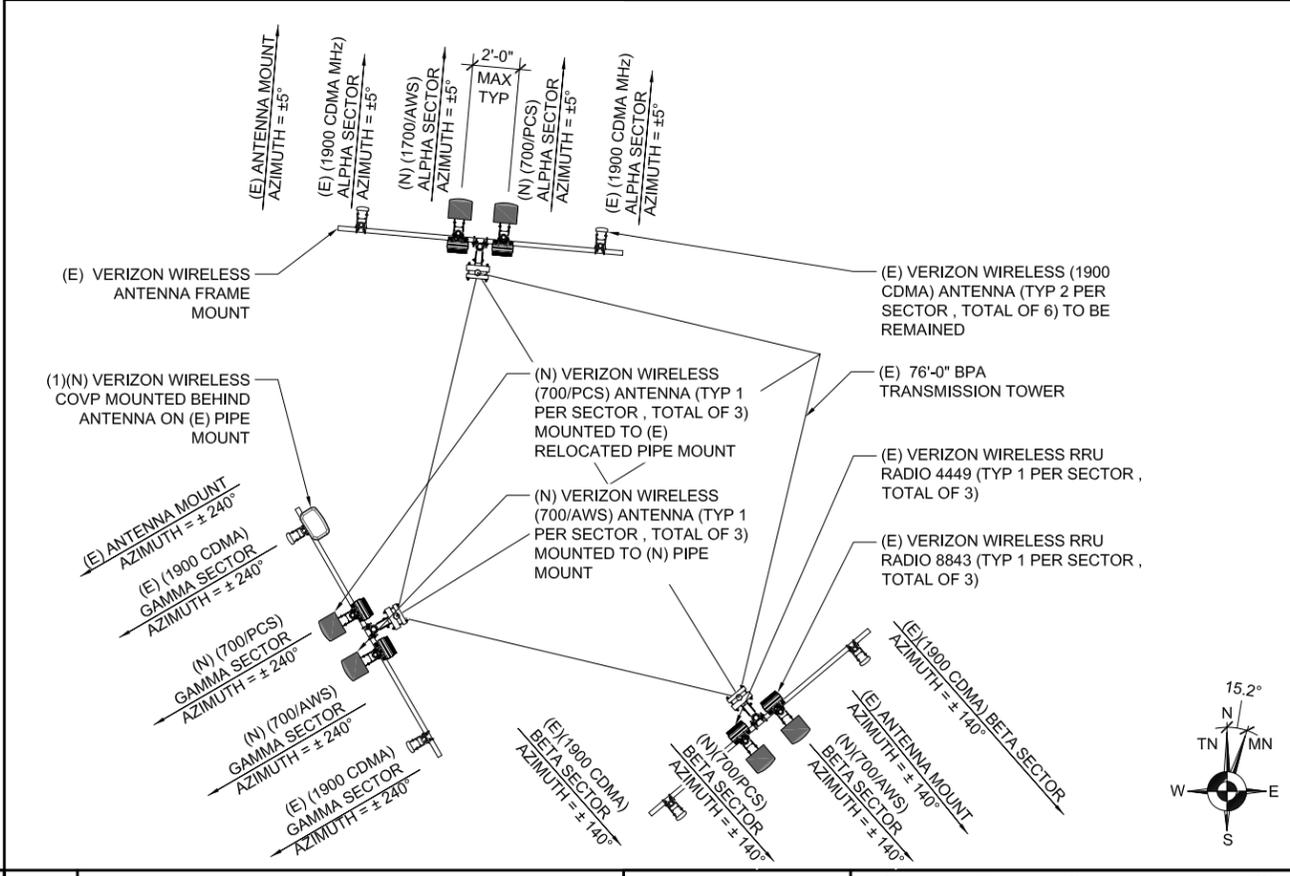
# ANTENNA AND ANCILLARY EQUIPMENT SCHEDULE

SECTOR	QTY.	(N)(E)	SERVICE TYPE	ANTENNA MODEL # OR EQUIPMENT SPECIFICATION	DIMENSIONS	WEIGHT	TIP HEIGHT	AZIMUTH	MECH. DOWNTILT	ELEC. DOWNTILT	CABLE QUANTITY	CABLE TYPE
ALPHA	1	(N)	AWS/700	JMA MX06FIT665-02	12.2"W X 10.7"D X 71.3"L	51 LBS	43.0'	5°	0°	0°/2°	1 (N)	1.56" HYBRID
	1	(N)	700/PCS	JMA MX06FIT665-02	12.2"W X 10.7"D X 71.3"L	51 LBS	43.0'	5°	0°	0°		
	2	(E)	1900 CDMA	ANTEL BSA-185090/10	3.9"W X 2.0"D X 60.2"L	7.5 LBS	42.5'	5°	0°	0°		
	1	(N)	700/850	ERICSSON RADIO 4449	15.0"W X 9.3"D X 13.2"L	70 LBS					12 (E)	7/8" COAX
	1	(N)	AWS/PCS	ERICSSON RADIO 8843	15.0"W X 9.3"D X 13.2"L	70 LBS						
	1	(N)		SURGE PTCTR. OVP BOX (RCMDC-6627-PF-48)	16.5"W X 12.6"D X 29.5"L	32 LBS						
BETA	1	(N)	AWS/700	JMA MX06FIT665-02	12.2"W X 10.7"D X 71.3"L	51 LBS	43.0'	140°	1°	2°/1°		
	1	(N)	700/PCS	JMA MX06FIT665-02	12.2"W X 10.7"D X 71.3"L	51 LBS	43.0'	140°	1°	2°/1°		
	2	(E)	1900 CDMA	ANTEL BSA-185065/10	6.3"W X 2.0"D X 60.2"L	9.1 LBS	42.5'	140°	1°	2°		
	1	(N)	700/850	ERICSSON RADIO 4449	15.0"W X 9.3"D X 13.2"L	70 LBS						
	1	(N)	AWS/PCS	ERICSSON RADIO 8843	15.0"W X 9.3"D X 13.2"L	70 LBS						
GAMMA	1	(N)	AWS/700	JMA MX06FIT665-02	12.2"W X 10.7"D X 71.3"L	51 LBS	43.0'	240°	1°	2°/1°		
	1	(N)	700/PCS	JMA MX06FIT665-02	12.2"W X 10.7"D X 71.3"L	51 LBS	43.0'	240°	1°	2°/1°		
	2	(E)	1900 CDMA	ANTEL BSA-185065/10	6.3"W X 2.0"D X 60.2"L	9.1 LBS	42.5'	240°	1°	2°		
	1	(N)	700/850	ERICSSON RADIO 4449	15.0"W X 9.3"D X 13.2"L	70 LBS						
	1	(N)	AWS/PCS	ERICSSON RADIO 8843	15.0"W X 9.3"D X 13.2"L	70 LBS						
GROUND	1	(N)		SURGE PTCTR. OVP BOX (RCMDC-6627-PF-48)	16.5"W X 12.6"D X 29.5"L	32 LBS						

- NOTES:**
- PM/GC TO VERIFY PAINTING REQUIREMENTS WITH JURISDICTION PRIOR TO ORDERING SUPPORT STRUCTURES, ATTACHMENTS, ANTENNAS, AND OTHER APPURTENANCES.
  - TOWER AND ANTENNA MOUNT PLATFORM / ASSEMBLY STRUCTURAL ANALYSIS TO BE PERFORMED BY OTHERS. VERIZON WIRELESS INSTALLATION SHALL NOT START UNTIL GC RECEIVES COPY OF APPROVED STRUCTURAL ANALYSIS OR ASSESSMENT.
  - CONTRACTOR RESPONSIBLE FOR PROVIDING TOWER RIGGING PLANS, SUBJECT TO OWNER APPROVAL.
  - REFER TO STRUCTURAL ANALYSIS FOR APPROVED HYBRID COAX CABLE PLACEMENT.



**2 ANTENNA PLAN - EXISTING**  
 SCALE: 1/8" = 1'-0" (11X17)  
 SCALE: 1/4" = 1'-0" (22X34)  
 0' 4' 8' 16'



**3 ANTENNA PLAN - PROPOSED**  
 SCALE: 1/8" = 1'-0" (11X17)  
 SCALE: 1/4" = 1'-0" (22X34)  
 0' 4' 8' 16'

**1 ANTENNA AND COAX/FIBER SCHEDULES**  
 SCALE: NTS  
 SCALE: NTS



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PRELIMINARY			
NO.	DATE	D/C	DESCRIPTION
0	11-26-18	VP/APT	90% CD REVIEW
SUBMITTAL			
NO.	DATE	D/C	DESCRIPTION
0	12-05-18	VP/AT	BP SUBMITTAL

**SITE NAME:**  
**PTL ROCKY FLAT**

**SITE ADDRESS:**  
 20 BALCH ROAD  
 LYLE, WASHINGTON 98635

**SHEET TITLE**  
**ANTENNA PLANS & EQUIP. SCHEDULE**

**SHEET NO.**  
**A3.0**

# Product Specifications

COMMSCOPE®



**RCMDC-6627-PF-48**  
Raycap OVP box for 12 RRUs, 12 strikesorb modules, voltage indicator, large box, UL

## Product Classification

Portfolio	CommScope®
Product Type	Outdoor junction box
Regional Availability	North America

## Construction Materials

Material Type	High-impact polycarbonate, UV resistant
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## Dimensions

Depth	320.04 mm   12.60 in
Height	749.30 mm   29.50 in
Width	419.10 mm   16.50 in
Weight	14.51 kg   32.00 lb

## Environmental Specifications

Environmental Space	Indoor   Outdoor
Qualification Standards	IEC 60529:2001, IP67

## General Specifications

Application	Used as a fiber/power junction box
Color	Gray
Includes	Mounting kit
Mount Type	Pipe, 44-114 mm (1.75-4.5 in) OD   Wall

## Mechanical Specifications

Cable Entry, quantity, maximum, bottom 6

## Regulatory Compliance/Certifications

Agency	Classification
UL/ETL Certification	Compliant
RoHS 2011/65/EU	Designed, manufactured and/or distributed under this quality management system
ISO 9001:2008	

## RADIO 4449 – B13 + B5 4TX 4RX PER BAND

- 4 antenna ports, 4TX/4RX for 2 bands with common RF ports
- Up to 320W RF Power shared between 2 bands
  - Examples:
    - 4x40W on each band or
    - 2x60W each band on two high-power RF ports

- Carrier Capacity:**
  - Up to 24 carrier and up to 10+25 MHz OBW for LTE

- 2x 10Gbps CPRI

- Size and Weight:**

Radio 4449 - B13B5	Height	Width	Depth	Weight
wo protruding items	15 in (380 mm)	13.2 in (335 mm)	9.3 in (235 mm)	70 lbs (31.7 Kg)
w protruding items	18 in (455 mm)	13.2 in (335 mm)	9.4 in (240 mm)	

- 48 VDC
- 2x20A fuse (2 power connectors, 2 or 3 wire)
- AISG TMA & RET support (2 Bias-T, 1 ALD port)
- Type 4.3-10 RF connectors
- 2 external alarms
- IP 65, -40 to +55 °C

Commercial in confidence | Anders OTTD | 2018-02-16 | Page 8

RADIO 4449



Portrait Mount Only



HIGH POWER RADIOS

BACK TO [QUAD](#) / [MAIN](#)

verizon

CENTERLINE SOLUTIONS



12/06/2018

CP PROJECT NO.: VER-18-0022-9

## 2 RRH ERICSSON 4449 SPECIFICATION

SCALE: NTS

SCALE: NTS

### PRELIMINARY

NO.	DATE	D/C	DESCRIPTION
0	11-26-18	VP/APT	90% CD REVIEW

### SUBMITTAL

NO.	DATE	D/C	DESCRIPTION
0	12-05-18	VP/AT	BP SUBMITTAL

**SITE NAME:**  
PTL ROCKY FLAT

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20 BALCH ROAD  
LYLE, WASHINGTON 98635

**SHEET TITLE**  
EQUIPMENT  
DETAILS

**SHEET NO.**

A4.0

## Radio 8843 – B2 + B66A (prev 4443) 4Tx 4RX per band

- 8 antenna ports, 4TX/4RX for 2 bands with separate RF ports
- Up to 320W RF Power shared between 2 bands
  - Examples:
    - 4x40W on each band or
    - 4x20W on Band 2 and 4x60W on Band 66A
    - 2x60W on Band 2 and 2x80W on Band 66A

- Carrier Capacity:**
  - Up to 24 carrier and up to 60+70 MHz OBW for LTE

- 2x 10Gbps CPRI

- Size and Weight:**

Radio 8843 - B2 & B66A	Height	Width	Depth	Weight
wo protruding items	15 in (380 mm)	13.2 in (335 mm)	9.3 in (235 mm)	70 lbs (31.7 Kg)
w protruding items	18 in (455 mm)	13.2 in (335 mm)	9.4 in (240 mm)	

- 48 VDC
- 2x20A fuse (2 power connectors, 2 or 3 wire)
- AISG TMA & RET support (2 Bias-T, 1 ALD port)
- Type 4.3-10 RF connectors
- 2 external alarms
- IP 65, -40 to +55 °C

Preliminary

RADIO 8843



Portrait Mount Only

## 3 RRH ERICSSON 8843 SPECIFICATION

SCALE: NTS

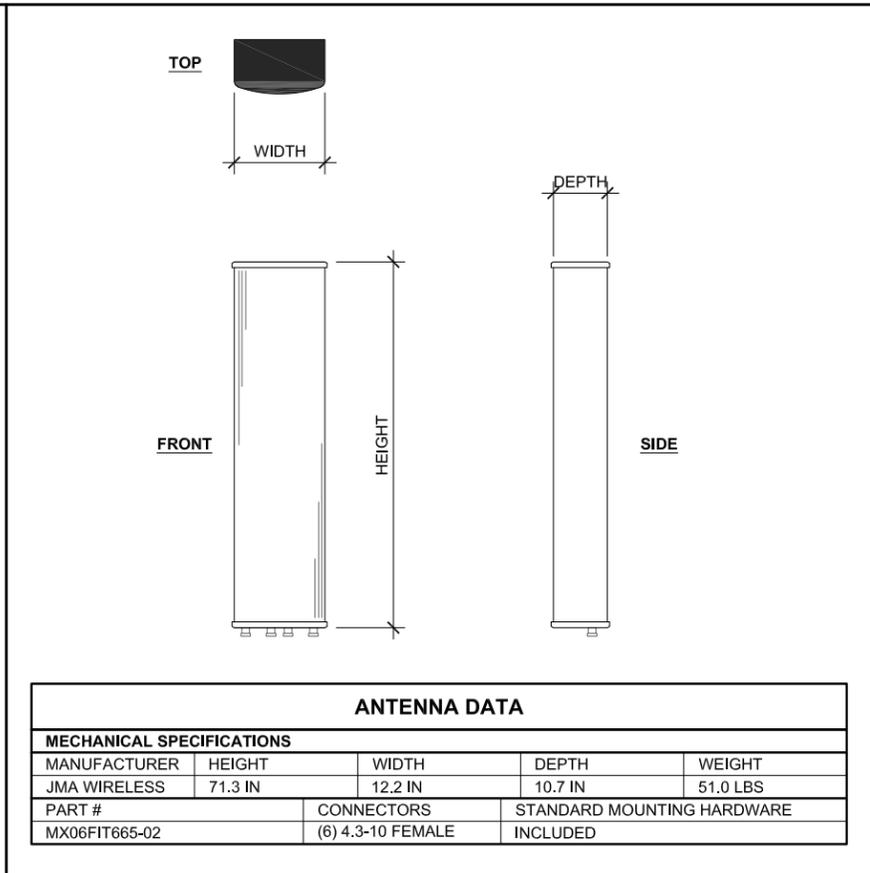
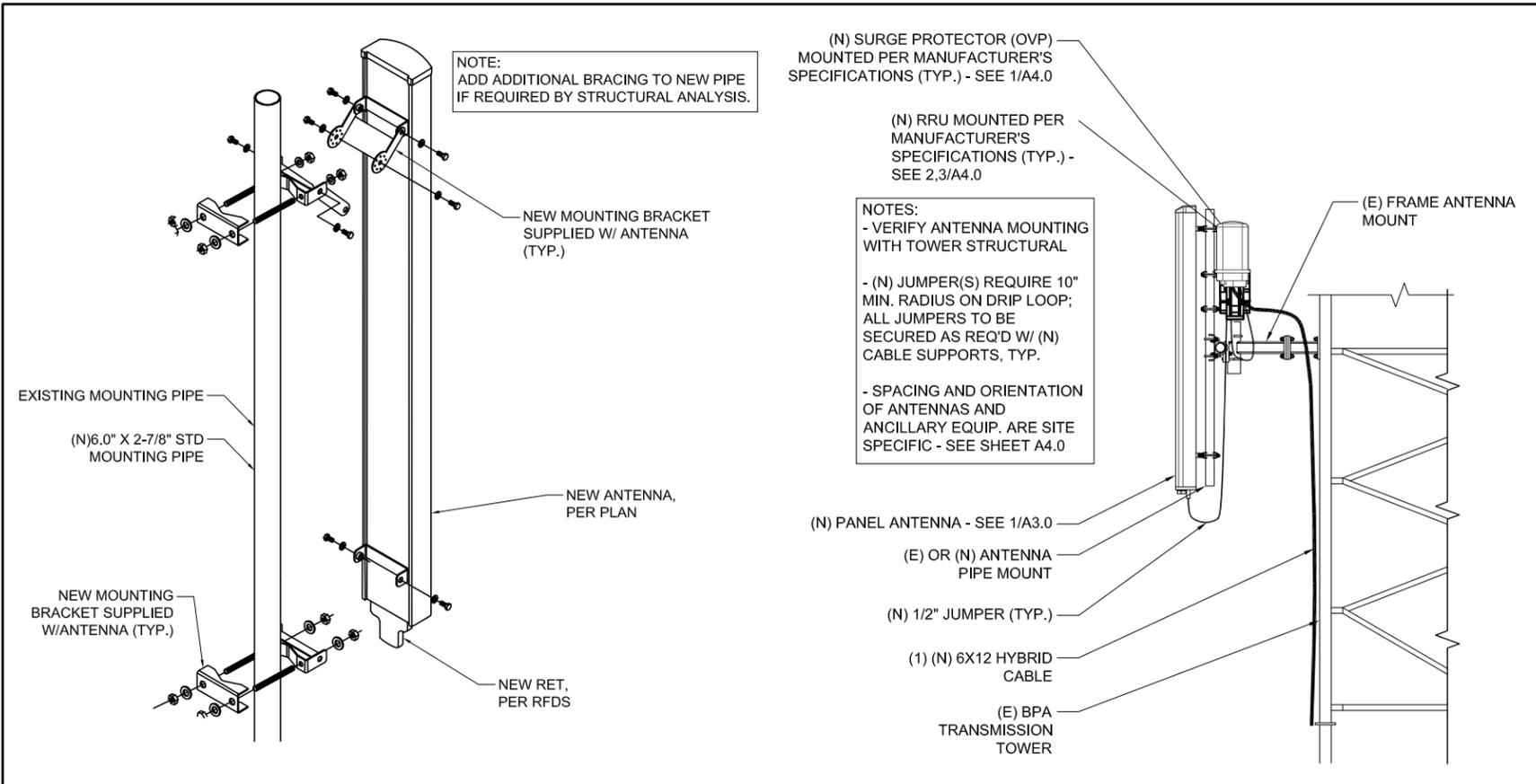
SCALE: NTS

SCALE: NTS

SCALE: NTS

## 1 COVP SPECIFICATION

1



CP PROJECT NO.: VER-18-0022-9

1 ANTENNA MOUNTING DETAIL

2 ANTENNA SPECIFICATION

3 NOT USED

4 NOT USED

PRELIMINARY			
NO.	DATE	D/C	DESCRIPTION
0	11-26-18	VP/APT	90% CD REVIEW
SUBMITTAL			
NO.	DATE	D/C	DESCRIPTION
0	12-05-18	VP/AT	BP SUBMITTAL

**SITE NAME:**  
PTL ROCKY FLAT

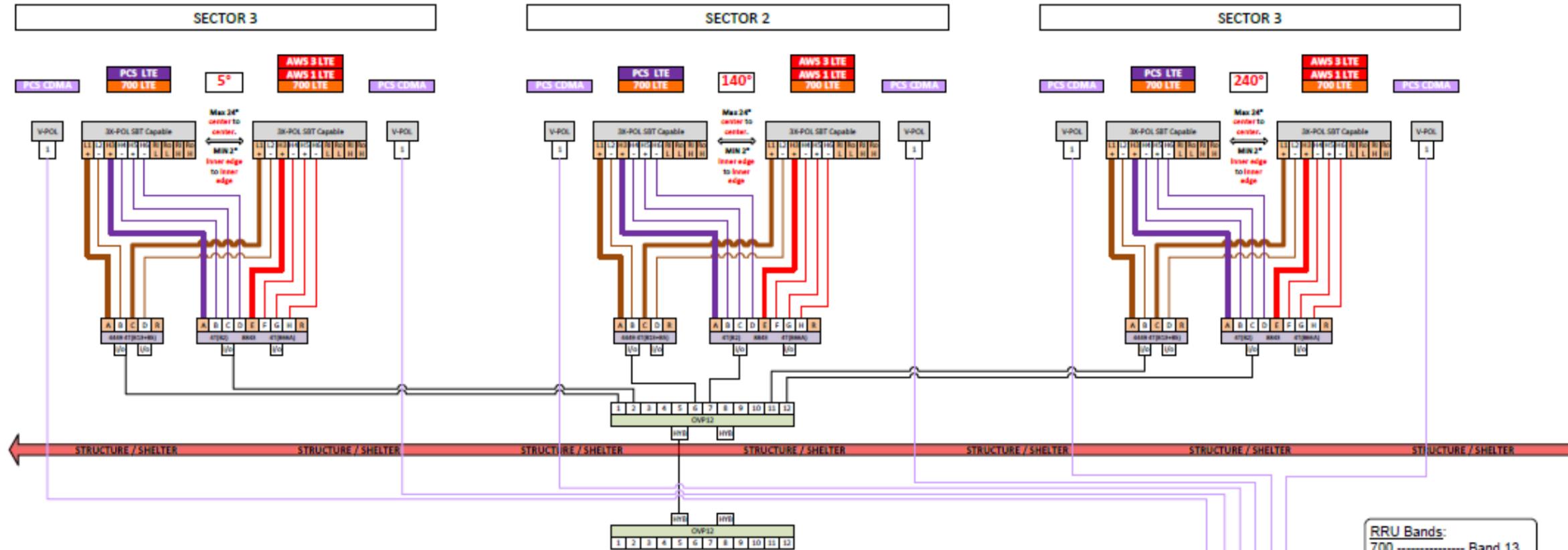
**SITE ADDRESS:**  
20 BALCH ROAD  
LYLE, WASHINGTON 98635

**SHEET TITLE**  
EQUIPMENT  
DETAILS

**SHEET NO.**  
A4.1

POR – ROCKY FLAT \_ANTENNA 20171017 [ 3 Sector – 4x4 RET RRH (700, PCS, AWS1, AWS3) + CDMA (1900) ]

October 29, 2018



12/06/2018

CP PROJECT NO.: VER-18-0022-9

PRELIMINARY			
NO.	DATE	D/C	DESCRIPTION
0	11-26-18	VP/APT	90% CD REVIEW
SUBMITTAL			
NO.	DATE	D/C	DESCRIPTION
0	12-05-18	VP/AT	BP SUBMITTAL

6630DB-4-3-1; AWS1 shown as split; both AWS1 & PCS split increase branches to 72 and cells to 18; other variation possible

from 6630 tab (6630-4-3-1)  
or from 6630 tab (6630-4-3-5)

6630DB-4-3-1	B13	B4	B66	B2
Bandwidth (MHz)	10	up to 20	up to 10	up to 20
Tx or Rx	4	4	4	4

	BB1	ABW	Branches		Cells	
			cont	split	cont	split
port A	700 alpha	40	4	4	1	1
port B	AWS/PCS alpha	200	12	16	3	4
port C						
port D						
port E						
port F	700 beta	40	4	4	1	1
port G	AWS/PCS beta	200	12	16	3	4
port H						
port J						
port K						
port L	700 gamma	40	4	4	1	1
port M	AWS/PCS gamma	200	12	16	3	4
port N						
port P						
port Q						
	<b>Total ABW</b>	<b>720</b>	<b>48</b>	<b>60</b>	<b>12</b>	<b>15</b>

- RRU Bands:**
- 700 ----- Band 13
  - AWS ----- Band 4
  - PCS ----- Band 2
  - 850 ----- Band 5
  - AWS-1/3 ----- Band 66A
  - CBRS ----- Band 48
  - LAA ----- Band 48

**RET Control Path Note:**  
All Smart BiasT's (SBT)/Internal BiasT's, or External AISG RET Controllers are driven by the BOLD coax/jumper pathways.

Example:  
Antenna port '1' driven by RRH port 'A'

**SITE NAME:**  
PTL ROCKY FLAT

**SITE ADDRESS:**  
20 BALCH ROAD  
LYLE, WASHINGTON 98635

**SHEET TITLE**  
RF DETAILS

**SHEET NO.**  
RF1.0

## GENERAL NOTES

1. THE FACILITY IS AN UNOCCUPIED SPECIALIZED MOBILE RADIO FACILITY.
2. PLANS ARE NOT TO BE SCALED AND ARE INTENDED TO BE A GRAPHIC REPRESENTATION OF THE FINAL INSTALLATION. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
3. PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTOR SHALL VISIT THE JOB SITE AND BE RESPONSIBLE FOR ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, AND DIMENSIONS AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER.
4. THE CONTRACTOR SHALL RECEIVE, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK.
5. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY OTHERWISE INDICATED OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
6. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY BEARING ON THE PERFORMANCE OF THE WORK. MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL AND STATE JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS.
7. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING BEST SKILLS AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT INCLUDING CONTACT AND COORDINATION WITH THE PROJECT MANAGER AND WITH LANDLORD'S AUTHORIZED REPRESENTATIVE.
8. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A10BC WITHIN 5 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF THE PROJECT AREA DURING CONSTRUCTION.
9. THE CONTRACTOR SHALL PROVIDE SITE FOREMAN WITH A CELLULAR PHONE, AND KEEP SAME ON SITE WHENEVER ANY PERSONNEL ARE ON SITE.
10. DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
11. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, PAVING, CURBS, GALVANIZED SURFACES, ETC., AND UPON COMPLETION OF WORK, REPAIR ANY DAMAGE THAT OCCURRED DURING CONSTRUCTION TO THE SATISFACTION OF THE PROJECT MANAGER AND/OR LANDLORD.
12. ON A DAILY BASIS: KEEP GENERAL AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH, AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. LEAVE PREMISES IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST OR SMUDGES OF ANY NATURE.
13. CONTRACTOR TO PROVIDE COMPLETE SET OF AS-BUILT DRAWINGS WITHIN 10 WORKING DAYS OF PROJECT COMPLETION.
14. WHERE A CONSTRUCTION DETAIL IS NOT SHOWN OR NOTED, THE DETAIL SHALL BE THE SAME AS FOR OTHER SIMILAR WORK.
15. ASTM SPECIFICATIONS NOTED ON THE DRAWINGS SHALL BE OF THE LATEST REVISION.
16. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HERON OR NOT AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT IN CONJUNCTION WITH THE PROSECUTION OF THIS WORK.
17. ALL ITEMS REMOVED OR DAMAGED DURING CONSTRUCTION WORK WILL BE REPLACED OR REPAIRED TO MATCH EXISTING.
18. ALL ELEMENTS OF EXISTING STRUCTURE TO REMAIN UNDISTURBED, UNLESS NOTED OTHERWISE. EXISTING STRUCTURE IS ASSUMED TO BE IN GOOD CONDITION, FREE OF DAMAGE OR DETERIORATION. CONTRACTOR TO VERIFY ALL ELEMENTS OF EXISTING STRUCTURE AFFECTED BY THIS MODIFICATION AND NOTIFY ENGINEER OF RECORD IF ANY DAMAGE, DETERIORATION OR DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THOSE DEPICTED ON THESE CONSTRUCTION DRAWINGS ARE FOUND.

## SPECIAL INSPECTION

1. IF REQUIRED, SPECIAL INSPECTIONS SHALL BE PERFORMED BY AN INDEPENDENT SPECIAL INSPECTOR.
2. THE SPECIAL INSPECTOR SHALL PROVIDE A COPY OF THEIR REPORT TO THE OWNER, ARCHITECT, STRUCTURAL ENGINEER, CONTRACTOR, AND BUILDING OFFICIAL AS EACH TEST IS COMPLETED.
3. ANY MATERIAL WHICH FAILS TO MEET THE PROJECT SPECIFICATIONS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE STRUCTURAL ENGINEER. SPECIAL INSPECTOR TESTING REQUIREMENTS APPLY EQUALLY TO ALL BIDDER DESIGNED COMPONENTS.
4. INSPECTION FOR PREFABRICATED CONSTRUCTION SHALL BE THE SAME AS FOR THE MATERIAL USED IF THE CONSTRUCTION TOOK PLACE ON SITE. CONTINUOUS INSPECTION WILL NOT BE REQUIRED DURING PREFABRICATION IF THE APPROVED AGENCY CERTIFIES THE CONSTRUCTION AND FURNISHES EVIDENCE OF COMPLIANCE.
5. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT CERTIFYING THAT ALL WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE SPECIAL INSPECTOR'S KNOWLEDGE IN CONFORMANCE WITH THE APPROVED PERMIT PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS.

## STRUCTURAL NOTES

### GENERAL STRUCTURAL NOTES:

1. WHERE A CONSTRUCTION DETAIL IS NOT SHOWN OR NOTED, THE DETAIL SHALL BE THE SAME AS FOR OTHER SIMILAR WORK.
2. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES.
3. NO PIPES, DUCTS, SLEEVES, CHASES, ETC., SHALL BE PLACED IN SLABS, BEAMS, OR WALLS UNLESS SPECIFICALLY SHOWN OR NOTED, NOR SHALL ANY STRUCTURAL MEMBER BE CUT FOR PIPES, DUCTS, ETC., UNLESS OTHERWISE NOTED. CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FOR INSTALLATION OF ANY ADDITIONAL PIPES, DUCTS, ETC.
4. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD VERIZON WIRELESS AND THE ARCHITECT/ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF VERIZON WIRELESS OR THE ARCHITECT/ENGINEER.
5. THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKERS, AND PEDESTRIANS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, TEMPORARY STRUCTURES, AND PARTIALLY COMPLETED WORK, ETC. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT/ENGINEER SHALL NOT INCLUDE INSPECTION OF SUCH ITEMS.
6. ASTM SPECIFICATIONS NOTED ON THE DRAWINGS SHALL BE OF THE LATEST REVISION.
7. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOOR OR ROOF. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. PROVIDE ADEQUATE SHORING/BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH.
8. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT IN CONJUNCTION WITH THE PROSECUTION OF THIS WORK.
9. DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALES SHOWN ON DRAWINGS.
10. THESE NOTES SHALL BE CONSIDERED A PART OF THE WRITTEN SPECIFICATIONS.
11. ALL ITEMS REMOVED DURING CONSTRUCTION WORK (I.E., DRYWALL, PLYWOOD, CEILING PANELS, ETC.) SHALL BE REPLACED TO MATCH EXISTING.

### THE FOLLOWING REQUIREMENTS SHALL BE MET FOR SPECIAL INSPECTION:

- A. THE SPECIAL INSPECTOR SHALL BE UNDER THE SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER.
- B. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE ARCHITECT/ENGINEER, AND OTHER DESIGNATED PERSONS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION; THEN, IF UNCORRECTED, TO THE PROPER DESIGN AUTHORITY AND THE BUILDING OFFICIAL.
- C. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT SIGNED BY BOTH HE AND HIS SUPERVISOR STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CODE.
- D. COMPLY WITH ALL CITY SPECIAL INSPECTION REQUIREMENTS.

### STANDARD STRUCTURAL STEEL NOTES:

1. ALL METAL WORK SHALL BE IN ACCORDANCE WITH THE SPECIFICATION GALVANIZED ASTM A123-A123M-02 UNLESS NOTED OTHERWISE.
2. STRUCTURAL TUBING MEMBERS SHALL CONFORM TO ASTM A500, GRADE A OR A501.
3. ALL WELDING SHALL BE DONE USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND AWS D1.1 WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION", 14TH EDITION.
4. BOLTED CONNECTIONS SHALL USE BEARING TYPE GALV. ASTM F3125 GRADE A325 BOLTS (5/8" DIA. UNO), GALV. PER ASTM F2329, AND SHALL HAVE A MINIMUM OF TWO BOLTS U.N.O AND SHALL INCLUDE HEAVY-HEX NUTS AND STANDARD CUT WASHERS.
5. NON-STRUCTURAL CONNECTIONS FOR HANDRAIL, LADDERS AND STEEL GRATING MAY USE 5/8" DIA GALVANIZED ASTM A307 BOLTS U.N.O.
6. ALL STRUCTURAL PIPE ASTM A53, TYPE E OR S, GRADE B.

### SPECIAL INSPECTION:

1. IF REQUIRED, SPECIAL INSPECTIONS SHALL BE PERFORMED BY AN INDEPENDENT SPECIAL INSPECTOR PER CODE FOR THE FOLLOWING ITEMS.
- A. CONTINUOUS DURING THE INSTALLATION OF EXPANSION AND/OR ADHESIVE ANCHORS: INSPECT HOLE SIZE, DEPTH, CLEANLINESS, AND INSTALLATION PER ICC REPORT.

## DRAWING ABBREVIATIONS

AFF	ABOVE FINISH FLOOR	LF	LINEAR FEET
AGL	ABOVE GRADE LEVEL	MAX	MAXIMUM
AWG	AMERICAN WIRE GAUGE	MECH	MECHANICAL
AC	AIR CONDITIONING	MFR	MANUFACTURER
ADJ	ADJUSTABLE	MGR	MANAGER
APPROX	APPROXIMATELY	MIN	MINIMUM
AZ	AZIMUTH	MISC	MISCELLANEOUS
BLDG	BUILDING	MTL	METAL
CM	CONSTRUCTION MANAGER	MTZL	METALIZE(D)
CAB	CABINET	MW	MICROWAVE
CL	CENTERLINE	NEC	NATIONAL ELECTRICAL CODE
CLG	CEILING	NIC	NOT IN CONTRACT
CLR	CLEAR	NTS	NOT TO SCALE
CO	COPPER	N/A	NOT APPLICABLE
CONC	CONCRETE	OC	ON CENTER
COND	CONDUIT	OD	OUTSIDE DIAMETER
CONST	CONSTRUCTION	OP	OVERHEAD POWER
CONT	CONTINUOUS	OT	OVERHEAD FIBER
CPM	CASCADIA PM	OPP	OPPOSITE
D/C	DRAFTER/CHECKER	PL	PROPERTY LINE
DEMO	DEMOLISH	PLYWD	PLYWOOD
DIA	DIAMETER	PM	PROJECT MANAGER
DIM	DIMENSION	PROJ	PROJECT
DN	DOWN	PROP	PROPERTY
DTL	DETAIL	PT	PRESSURE TREATED
DWG	DRAWING	RO	ROUGH OPENING
EA	EACH	ROW	RIGHT OF WAY
ELECT	ELECTRICAL	RRU	REMOTE RADIO UNIT
ELEV	ELEVATION	REQ	REQUIRED
EQ	EQUAL	SBTC	SOLID BARE TINNED COPPER
EQUIP	EQUIPMENT	SF	SQUARE FEET
EXT	EXTERIOR	SHT	SHEET
FIN	FINISH	SPEC	SPECIFICATION
FLR	FLOOR	SQ	SQUARE
FT	FOOT, FEET	SS	STAINLESS STEEL
GA	GAUGE	STL	STEEL
GALV	GALVANIZED	STRUCT	STRUCTURE, STRUCTURAL
GC	GENERAL CONTRACTOR	TOC	TOP OF CONCRETE
GWB	GYPSUM WALL BOARD	TOM	TOP OF MASONRY
GR	GRADE	THRU	THROUGH
GRND	GROUND	TNND	TINNED
HVAC	HEATING, VENTING & AIR CONDITIONING	UBC	UNIFORM BUILDING CODE
HORIZ	HORIZONTAL	UG	UNDERGROUND
HT	HEIGHT	UNO	UNLESS NOTED OTHERWISE
IBC	INTERNATIONAL BUILDING CODE	UP	UNDERGROUND POWER
ID	INSIDE DIAMETER	UF	UNDERGROUND FIBER
IN	INCH	VIF	VERIFY IN FIELD
INSUL	INSULATION	VERT	VERTICAL
INT	INTERIOR	WP	WATERPROOF
JBOX	JUNCTION BOX	W/	WITH
LB(S)	POUND(S)	W/O	WITHOUT

**verizon**

**CENTERLINE SOLUTIONS**



CP PROJECT NO.: VER-18-0022-9

PRELIMINARY			
NO.	DATE	D/C	DESCRIPTION
0	11-26-18	VP/APT	90% CD REVIEW
SUBMITTAL			
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PTL ROCKY FLAT

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**SHEET TITLE**  
GENERAL  
NOTES

**SHEET NO.**  
GN1.0