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PROJECT NAME: MERCER ISLAND SMALL CELL - 5G UPGRADE

8215 SE 78th ST., MERCER ISLAND, WA 98040 PROJECT ADDRESS:

NEW REPLACEMENT PSE WOOD UTILITY POLE PROJECT TYPE:

CUSTOMER NODE ID #: 448280

CROWN NODE ID #: **MIV 43**

VZW MERCER ISLAND HUB HUB NAME:

CARRIER: VERIZON

LAT: 47.532933, LONG: -122.227306 COORDINATES:

APPLICANT:

CROWN CASTLE

SEATTLE. WA 98109

CROWN CASTLE BILLING / SCU#: 464893

PROJECT TEAM

ARCHITECT Company: SHIFT CONSULTING Address: 3334 N. 20TH ST. PHOENIX. AZ 85016

Phone Number: 480.448.2000 480.264.0163 Contact: CHRIS MYERS **OWNER INFO**

Company: CROWN CASTLE Address: 1505 WESTLAKE AVE. N., #800 SEATTLE, WA 98109 Phone Number: 253,302,9678

Fax Number: Contact: CHRIS KOCH **JURISDICTION:** MERCER ISLAND PUBLIC WORKS

9601 SE 36TH STREET MERCER ISLAND, WA 98040 PH: 206.275.7608

HANDICAPPED REQUIREMENTS: -FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION.

-HANDICAPPED ACCESS

REQUIREMENTS ARE NOT REQUIRED.

CODES: 2018 INTERNATIONAL BUILDING CODE

WASHINGTON CITIES ELECTRICAL CODE

1505 WESTLAKE AVE. N., #800

PLUMBING REQUIREMENTS: FACILITY HAS NO PLUMBING

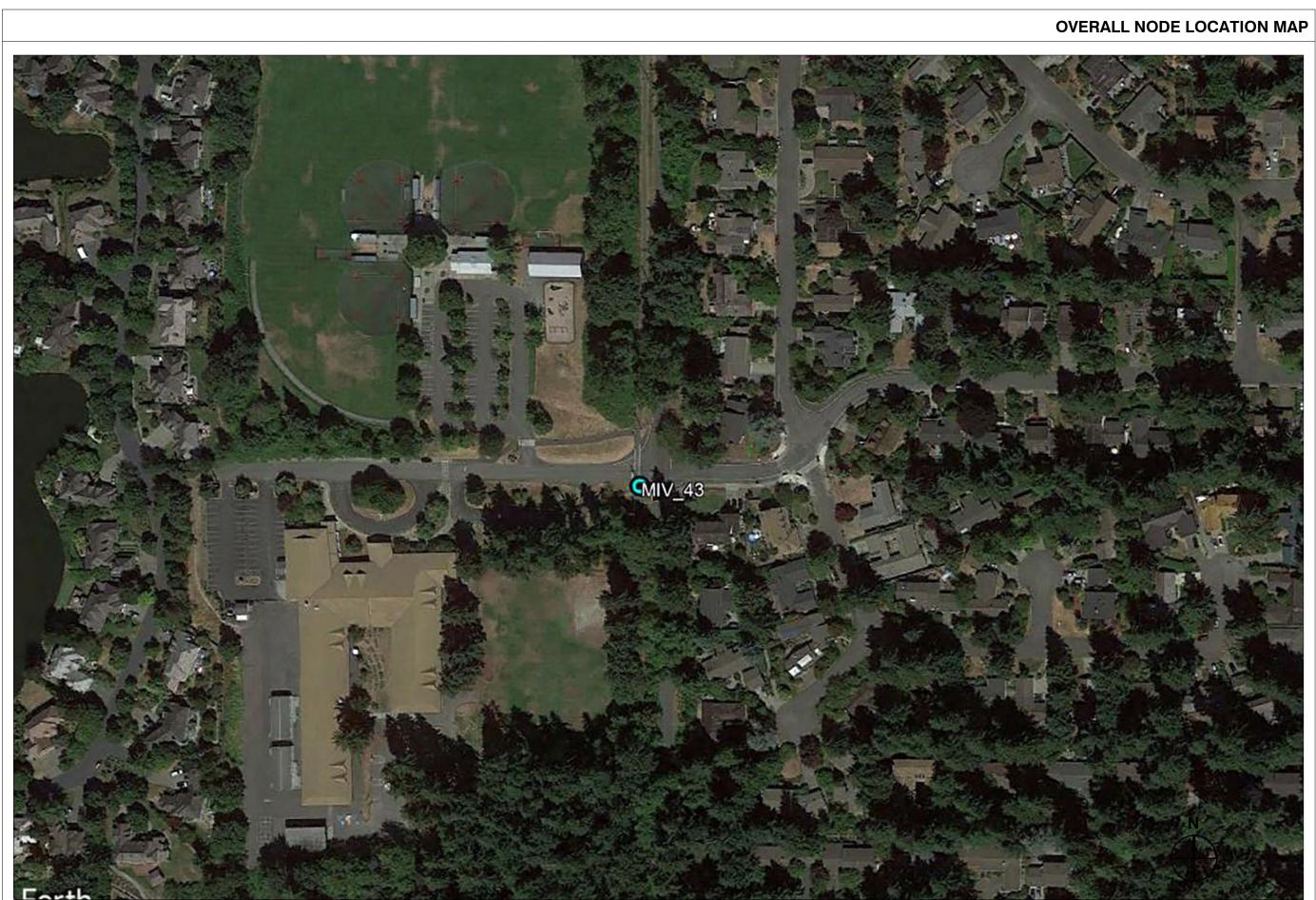
POWER COMPANY: PUGET SOUND ENERGY (PSE)

PROJECT DESCRIPTION

PROJECT SUMMARY

THIS PROJECT WILL CONSIST OF ADDING NEW POLE-TOP ANTENNA SHROUD, CONTAINING (1) 4G CANISTER ANTENNA TO NEW REPLACEMENT WOOD UTILITY

NEW POLE-MOUNTED EQUIPMENT: (1) 4G JMA WIRELESS CYL2Q24GR-1xyz ANTENNA



ONE PARK PLACE, STE. 300 **DUBLIN, CA 94568**

RECORD DRAWINGS ISSUE DATE:11.01.22

SHIFT Shift Companies, LLC PHOENIX, ARIZONA 85016 ph: 480.448.2000 fax: 480.264.0163

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PROJECT NAME MERCER ISLAND SMALL

CELL - 5G UPGRADE

NODE NUMBER

NODE ADDRESS

MIV 43

8215 SE 78th ST., MERCER ISLAND, WA 98040

HUB AREA

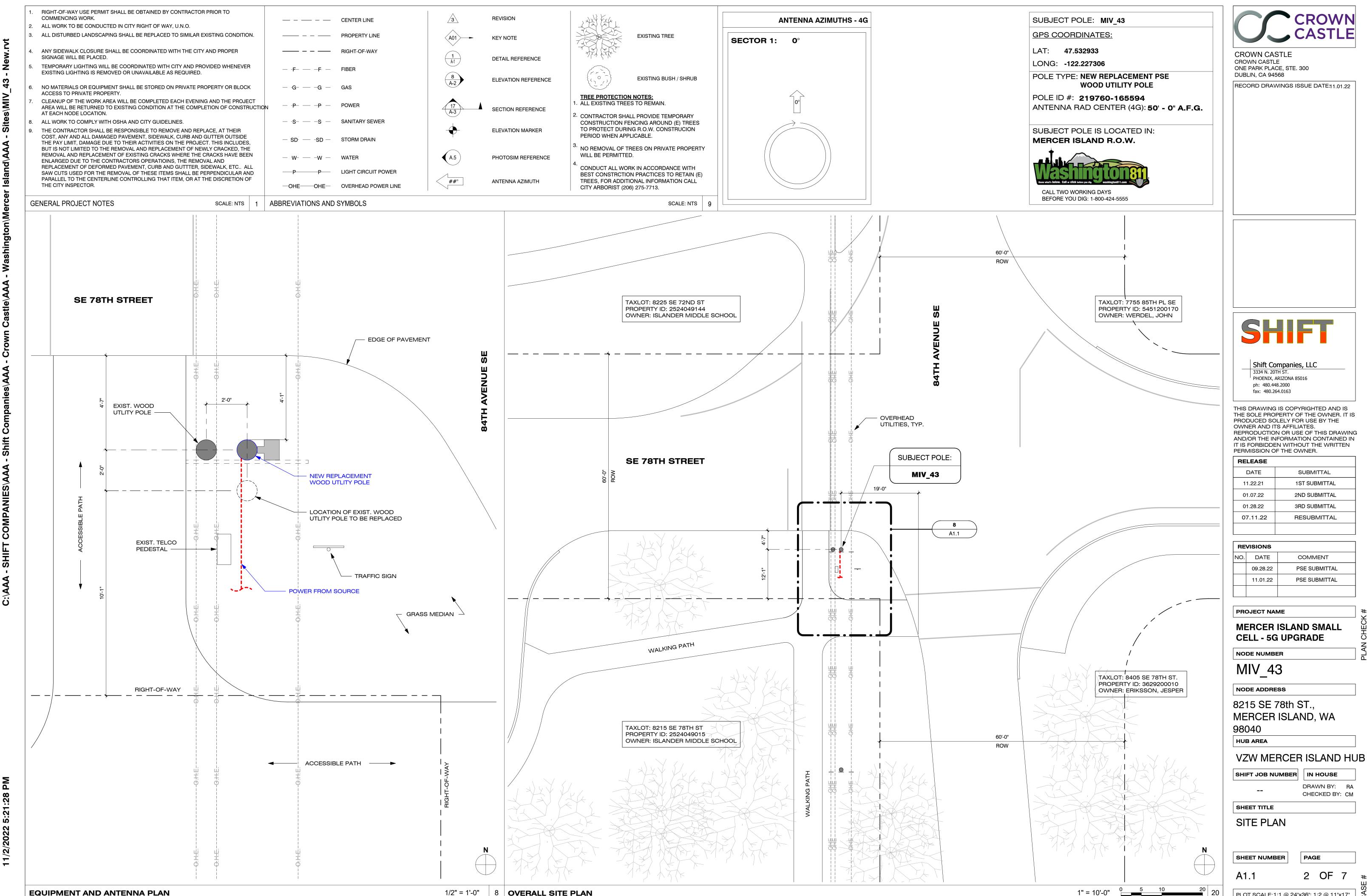
VZW MERCER ISLAND HUB

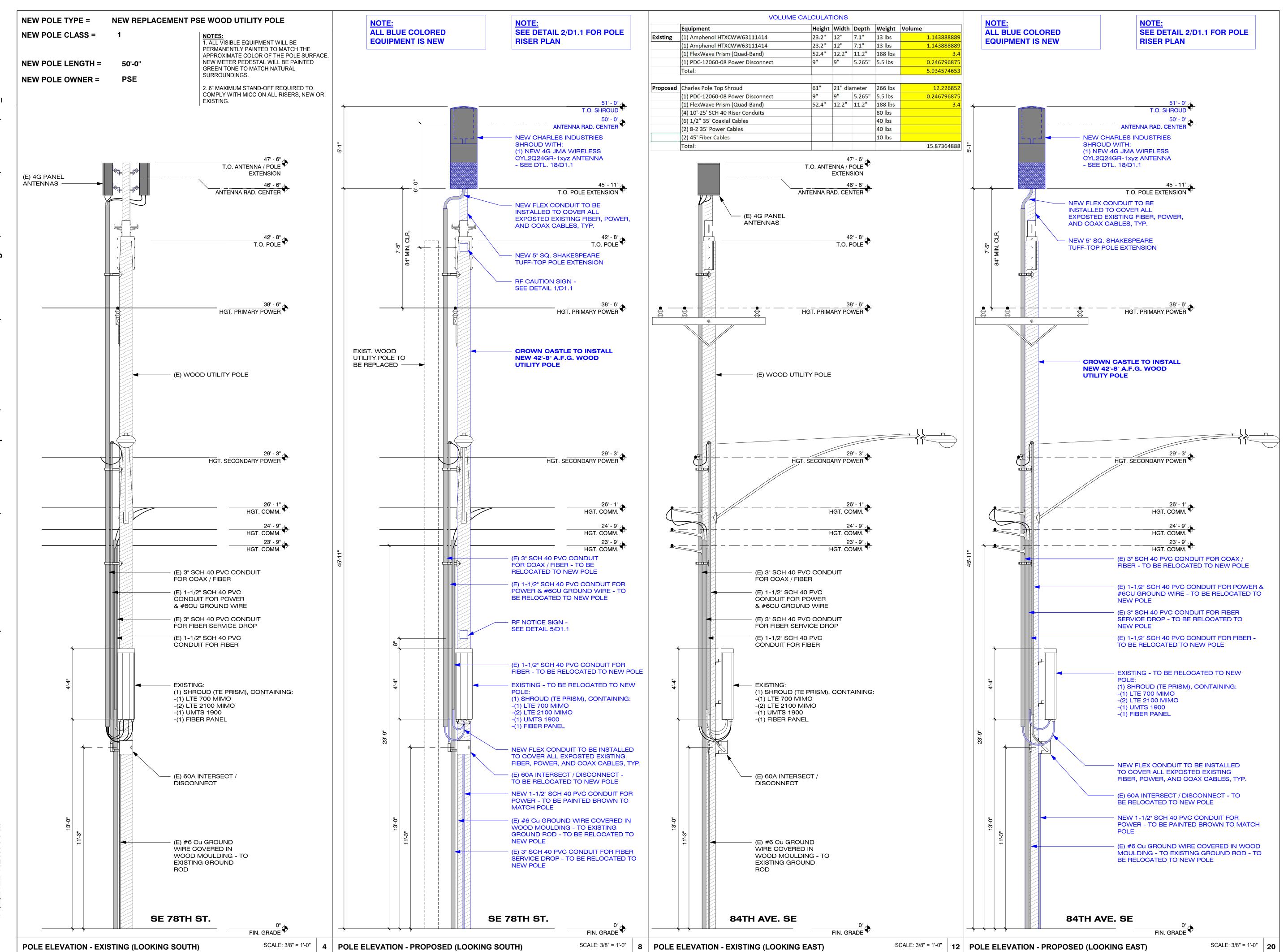
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SHEET TITLE

TITLE SHEET

PAGE SHEET NUMBER OF 7 T1.1







CROWN CASTLE
CROWN CASTLE
ONE PARK PLACE, STE. 300

ONE PARK PLACE, STE. 300 DUBLIN, CA 94568 RECORD DRAWINGS ISSUE DATE:11.01.22



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MERCER ISLAND SMALL
CELL - 5G UPGRADE

MIV_43

NODE ADDRESS

NODE NUMBER

8215 SE 78th ST., MERCER ISLAND, WA 98040

HUB AREA

VZW MERCER ISLAND HUB

SHIFT JOB NUMBER

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SHEET TITLE

POLE ELEVATIONS

A1.2 3 OF 7

PLOT SCALE: 1:1 @ 24"x36"; 1:2 @ 11"x17"

PHOTO SIMULATION - VIEW LOOKING SOUTHWEST ON SE 78TH STREET (EXISTING)

SCALE: N.T.S. PHOTO SIMULATION - VIEW LOOKING EAST ON SE 78TH STREET (EXISTING)

SCALE: N.T.S. PHOTO SIMULATION - VIEW LOOKING EAST ON SE 78TH STREET (PROPOSED)

SCALE: N.T.S. 20

MERCER ISLAND, WA 98040

HUB AREA

VZW MERCER ISLAND HUB

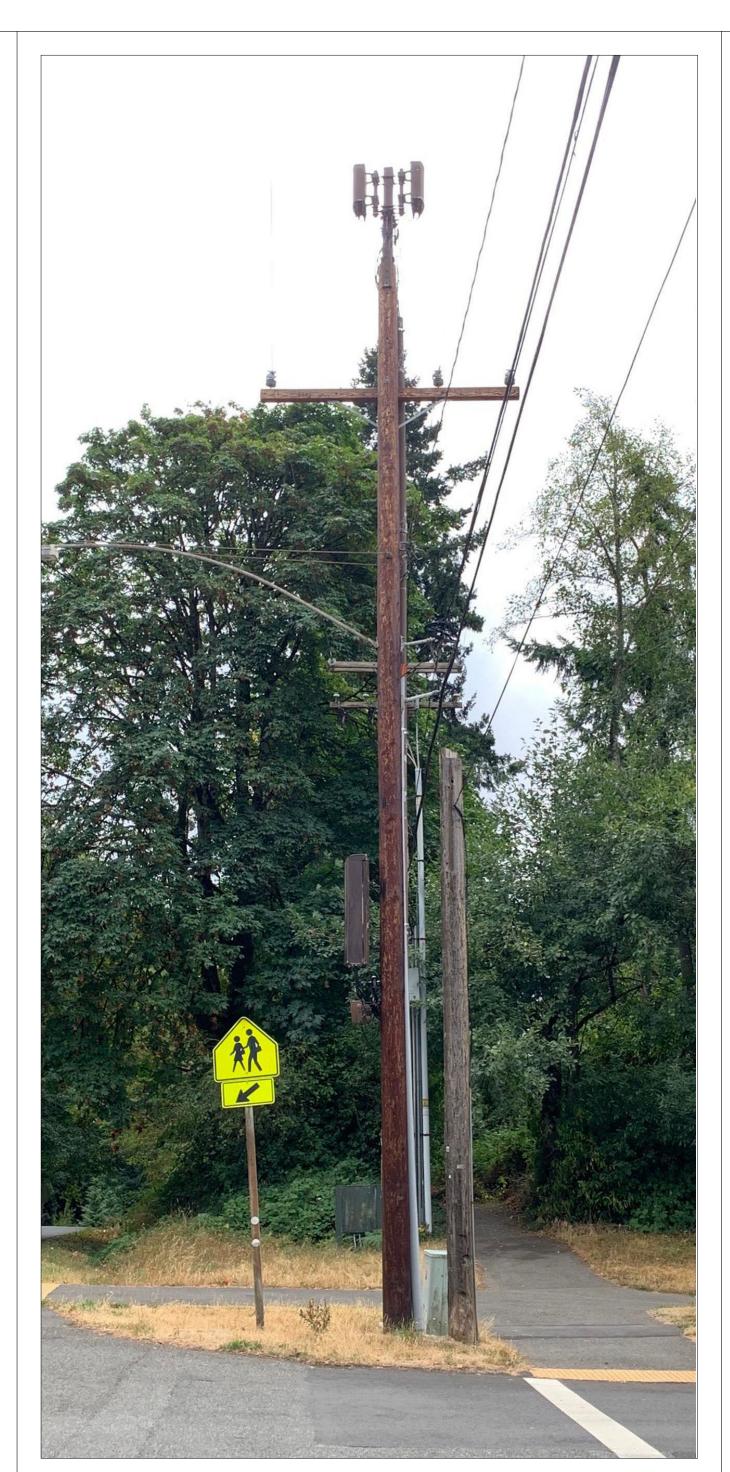
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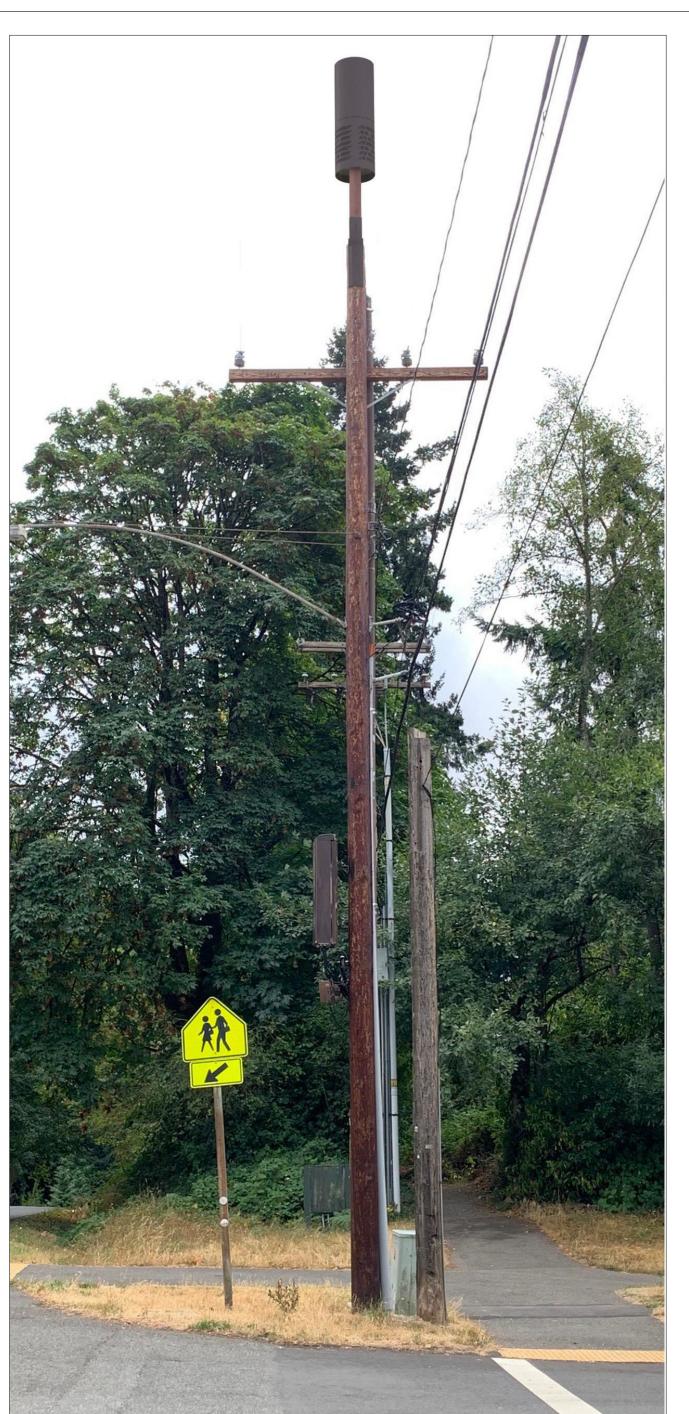
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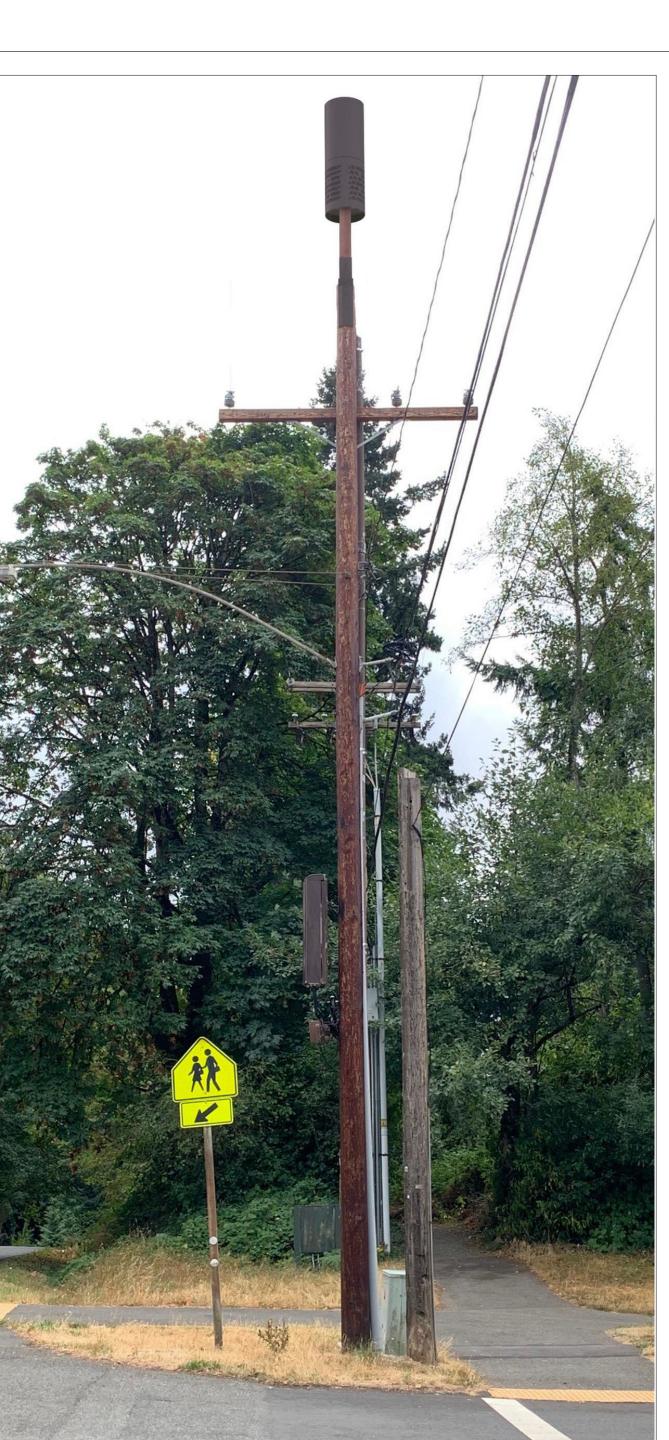
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PHOTO SIMULATIONS











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CROWN CASTLE CROWN CASTLE ONE PARK PLACE, STE. 300 DUBLIN, CA 94568

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	PROJECT	NA

MERCER ISLAND SMALL **CELL - 5G UPGRADE**

NODE NUMBER

MIV_43

NODE ADDRESS

8215 SE 78th ST.,

SHEET TITLE

PAGE SHEET NUMBER



Keep Back ____ FT From this Antenna. FCC RF Public Exposure Limits May Be **Exceeded Within This Distance.** Call 888-632-0931 for Instructions. Qualified Workers: FCC Occupational Limits May Be **Exceeded Within This Distance.**

Site ID #

RF CAUTION SIGNAGE

SCALE: N.T.S. 1

-(1) 3" SCH 40 PVC CONDUIT FOR

-(1) 1-1/2" SCH 40 PVC FOR PRIMARY

COMM. SERVICE DROP

SERVICE DROP

PROPOSED ANTENNAS ABOVE -EXIST. RADIO 12:00 SHROUD **NEW WOOD** UTILITY POLE FACE OF CURB **EXISTING STANDOFF FOR** CONDUITS:
-(1) 3" SCH 40 PVC CONDUIT FOR COAX / FIBER -(1) 1-1/2" SCH 40 PVC CONDUIT FOR POWER & #6CU GROUND WIRE

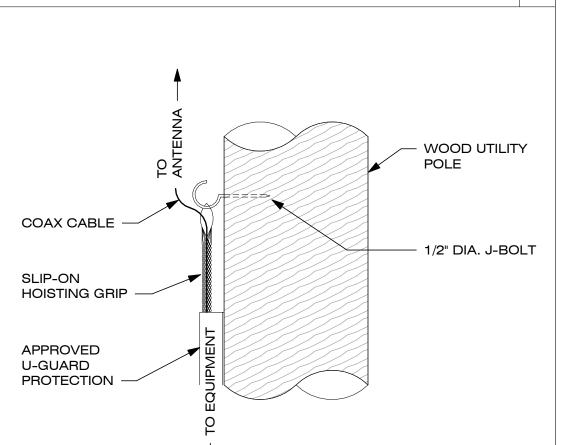
SCALE: N.T.S. 2 COAX HANGER DETAIL **POLE RISER PLAN**

POLE WORKERS There is an antenna operation

high on this pole. Please follow guidance on signs near the antenna or call the number below.

Site ID #

CC SESTILE 888-632-0931



RF NOTICE SIGNAGE SCALE: N.T.S. TEMPLATE **KEYED JOINT** 1/8" RADIUS -

SCALE: N.T.S. 6 CONCRETE JOINT DETAILS

CONTROL JOINT MAX.— FORM W/ TEMPLATE OR SAWCUT JOINTS. SAWCUT JOINTS, IF USED, SHALL BEGIN AS SOON AS CONC. IS HARDENED SUFFICIENTLY TO PERMIT SAWING WITHOUT EXCESSIVE RAVELING AND BEFORE UNCONTROLLED CRACKING OCCURS. MIN DISTANCE = 5' FILL W/ JOINT SEALER KEYWAY FORMED BY FASTENING METAL KEY TO FORM

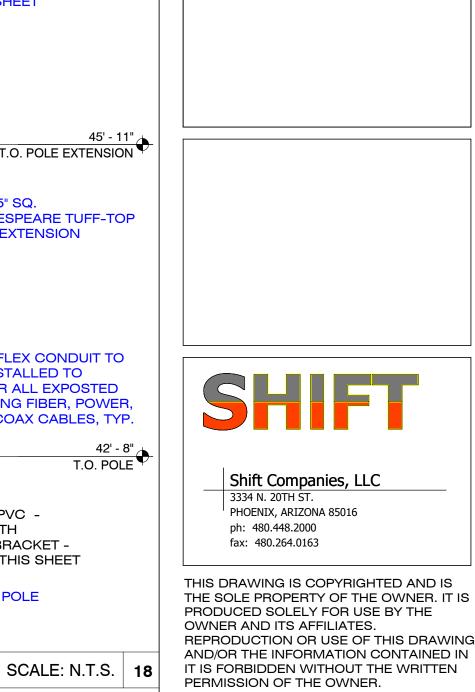
EXPANSION JOINT

MAX DISTANCE BETWEEN JOINTS = 10';

1/2" PREMOLDED NON-EXTRUDING **EXPANSION JOINT MATERIAL TO MEET** AASH TO SPEC. M-59. *EXPANSION JOINTS SHALL BE INSTALLED WHEN ABUTTING EXISTING CONCRETE OR FIXED STRUCTURES SUCH AS INLETS AND DRIVEWAYS, AND EVERY 300' ON LONG STRAIGT CONCRETE STRETCHES 3. ALL VISIBLE EQUIPMENT WILL BE PERMANENTLY PAINTED TO MATCH THE APPROXIMATE COLOR OF THE POLE SURFACE.

51' - 0" T.O. SHROUD DIA. ANTENNA RAD. CENTER (4G) (1) NEW 4G JMA WIRELESS CYL2Q24GR-1xyz ANTENNA NEW CHARLES INDUSTRIES SHROUD 61" High x Ø20" Diameter - SEE SPEC. DTL. 20 / Shroud Size Shroud Construction Steel mast structure Aluminum radio shroudin **Shroud Color** Red character in P/N designates color: G = National Park Brown Pole Top Shroud has bottom plate with mounting holes to mount to top of Shakespeare extension Mounting brackets for (1) Ericsson 8843 radio and (2) Ericsson AC-08 45' - 11" T.O. POLE EXTENSION 4G Antenna Shroud Mounting for 24"H JMA canister antenna FRP Composite Antenna Radome Vented Intake and Exhaust (Top and Bottom) NEW 5" SQ. (2) 120VAC powered fans SHAKESPEARE TUFF-TOP 2 Row, 8 Position Ground bar in bottom of shroud Bonding/Grounding POLE EXTENSION Cable Entrance Open top and bottom for cables from the pole to the antenna NEW FLEX CONDUIT TO BE INSTALLED TO **COVER ALL EXPOSTED** EXISTING FIBER, POWER, AND COAX CABLES, TYP. 42' - 8" T.O. POLE NOTES:

1. CONTRACTOR TO INSTALL WEATHERPROOF WRAP AT ALL EXISTING 3" PVC -CONDUIT WITH CONNECTORS. WRAP TO BE APPROVED BY CROWN CASTLE STANDOFF BRACKET -SEE DTL. 8 / THIS SHEET 2. COLOR CODE COAX CABLES PER CROWN CASTLE WIRING **NEW WOOD POLE**

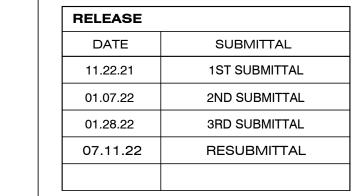


CROWN CASTLE

DUBLIN, CA 94568

ONE PARK PLACE, STE. 300

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PROJECT NAME
MERCER ISLAND SMALL CELL - 5G UPGRADE

NODE NUMBER

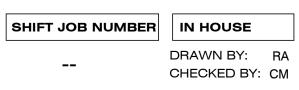
MIV 43

NODE ADDRESS

8215 SE 78th ST., MERCER ISLAND, WA 98040

HUB AREA

VZW MERCER ISLAND HUB

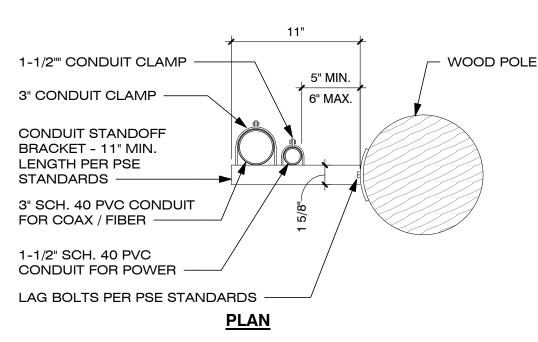


SHEET TITLE

CONSTRUCTION **DETAILS**

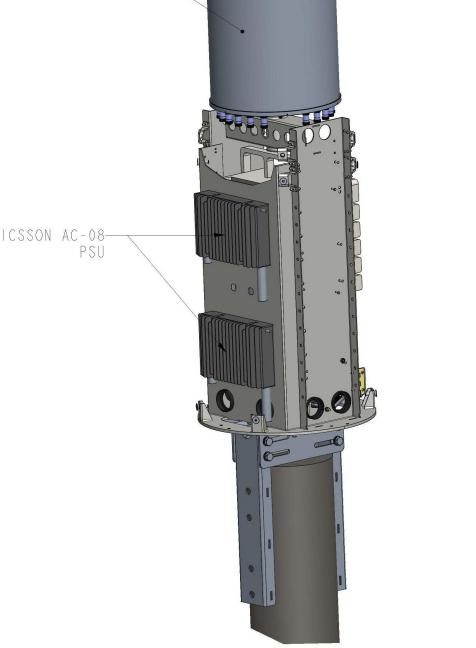
PAGE SHEET NUMBER 5 OF 7 PLOT SCALE:1:1 @ 24"x36"; 1:2 @ 11"x17"

6" MAX. 1-1/2" CONDUIT CLAMP 3" CONDUIT CLAMP — CONDUIT STANDOFF BRACKET - 11" MIN. LENGTH PER PSE STANDARDS -LAG BOLTS PER PSE STANDARDS -3" SCH. 40 PVC CONDUIT FOR COAX / FIBER -1-1/2" SCH. 40 PVC CONDUIT FOR POWER **ELEVATION**

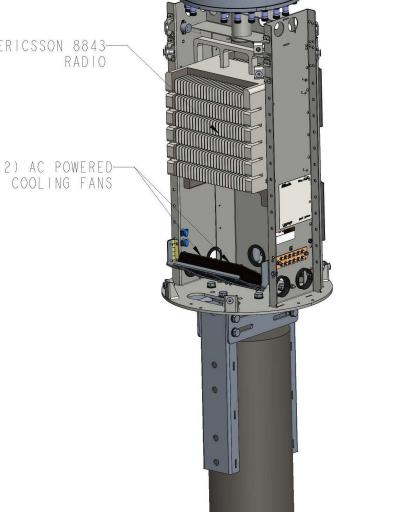


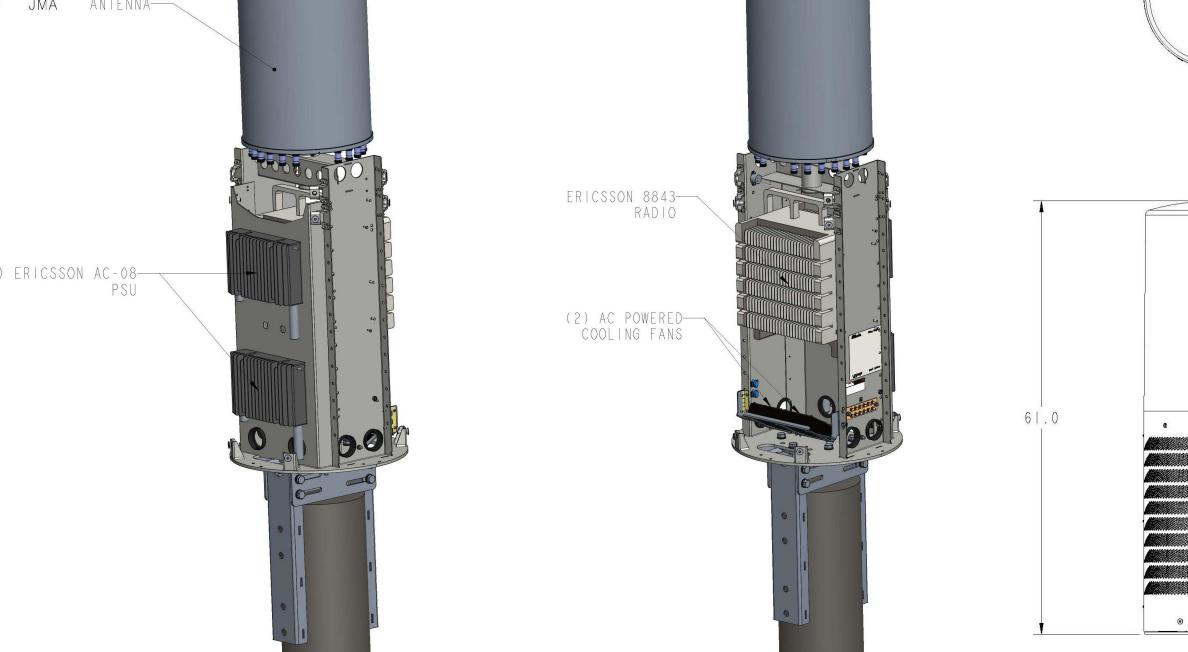
1. CONTRACTOR TO COORDINATE CONDUIT INSTALLATION WITH PUGET SOUND ENERGY (PSE) 2. POLE MOUNTED ANTENNAS ARE NOT SHOWN FOR CLARITY 3. MOUNT STANDOFFS ON POLE FACE PER DETAIL 2 / THIS SHEET. THIS DETAIL IS FOR STANDOFF BRACKET INFORMATION ONLY 4. USE PRE-DRILLED HOLES WHEN AVAILABLE 5. FOR FIELD-DRILLED HOLES, WHEN APPROVED BY PSE, SHALL BE TREATED WITH A 2% COPPER NAPHTHENATE SOLUTION OR OTHER PSE-APPROVED PRESERVATIVE CONDUIT ATTACHMENT DETAIL

4G JMA ANTENNA-(2) ERICSSON AC-08



SCALE: N.T.S. 10 ANTENNA MOUNTING DETAIL (5G)



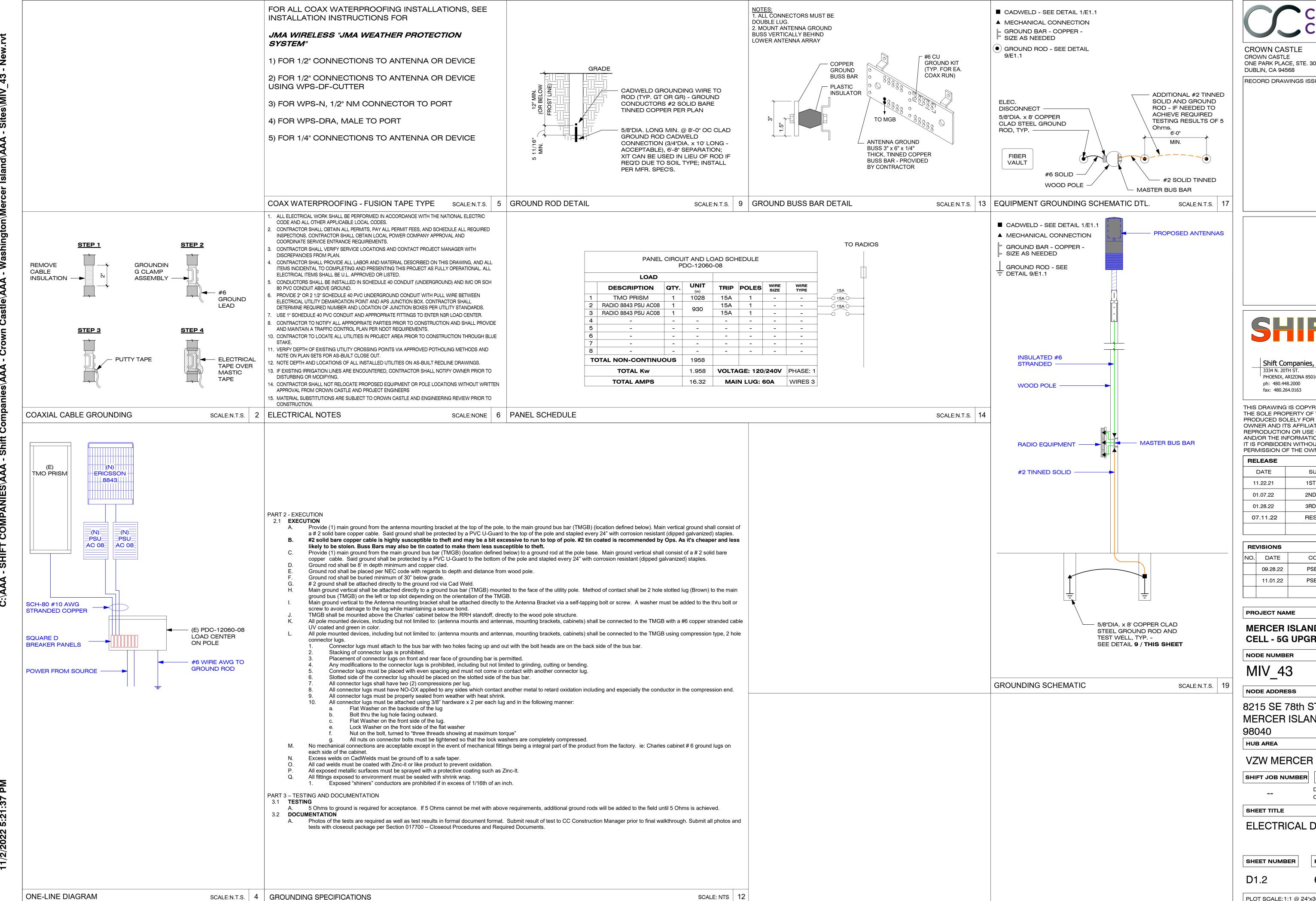


Sharlos

SHRD1-6120AAUxP

SCALE: $1 \frac{1}{2} = \frac{1}{0}$ 8 POLE-TOP SHROUD SPEC.

SCALE: N.T.S. | 20 |



ONE PARK PLACE, STE. 300

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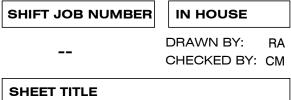
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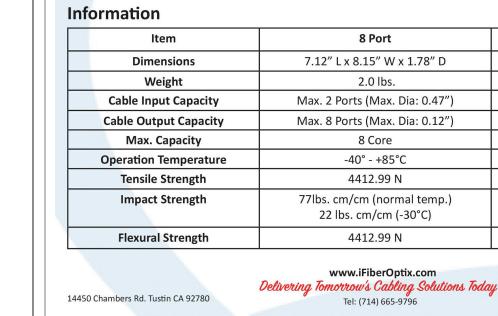


8215 SE 78th ST., MERCER ISLAND, WA

VZW MERCER ISLAND HUB



ELECTRICAL DETAILS



Features

Compact size

adapter types

16 optical fibers

- Bottom cable entry

- Locking available on front panel

- Sealed for moisture and dust resistance

- Accommodates standard SC connector and

- Compact interconnect and splice housing for up to



Fronthaul 6587

SERVICES PER PORT (Up 18 clien	t ports are supported)
CPRI service types:	CPRI Option 1 (614.4 Mbit/s) CPRI Option 2 (1,228.8 Mbit/s) CPRI Option 3 (2,457.6 Mbit/s) CPRI Option 4 (3,072.0 Mbit/s) CPRI Option 5 (4,915.2 Mbit/s) CPRI Option 6 (6,144.0 Mbit/s) CPRI Option 7 (9,830.4 Mbit/s) CPRI Option 8 (10,137.6 Mbit/s)
eCPRI service types:	eCPRI (10,312.5 Mbit/s)
OBSAI service types:	OBSAI 1x (768.0 Mbit/s) OBSAI 2x (1,536.0 Mbit/s) OBSAI 4x (3,072.0 Mbit/s) OBSAI 8x (6,144.0 Mbit/s)
Ethernet service types:	GbE (1,225.0 Mbit/s) 10GE (10,312.5 Mbit/s)
MECHANICAL / ENVIRONMENTA	L
System components*:	IP68 WDM Filter: IP68 Passive enclosure for up to 4xLGX optical filters OAD-3-S: Indoor/Outdoor 6-ch x 100 GHz OAD SFW Unit - Variant A to H OAD-9-S: Indoor/Outdoor 18-ch x 100 GHz OAD SFW Unit - Variants LB and H OAD-1-C: Indoor/Outdoor 2-ch x 100 GHz CWDM SFW OAD Unit - Variant 1 to OAD-4-C: Indoor/Outdoor 8-ch x 100 GHz CWDM SFW OAD Unit SPL-2-S-2: Indoor/Outdoor 2x2 Optical Power Splitter/Coupler Unit SPL-2-S-4: Indoor/Outdoor 2x4 Optical Power Splitter/Coupler Unit BMD-8-S: Indoor/Outdoor 8-bond SFW Mux/DeMux Unit GCF-1: Indoor/Outdoor G-PON Coexistence Optical Filter Unit
Dimension (H x W x D):	234x184x69 mm
Weight:	1.2. Kg
Operating temperature	-40°C to + 65°C
STANDARDS AND SPECIFICATIO	NS
Environmental (ENV):	EN 300 019-2-1 EN 300 019-2-2 EN 300 019-2-4
Safety:	EN/IEC 60825-2 EN/IEC 60950-1 (applicable parts)
International Protection:	IP68

JMA CYL2Q24GR-1xyz NWAV™ Cylinder Antenna

24-port cylinder antenna 698-4200 MHz: 4 ports 698-960, 12 ports 1695-2690 MHz, and 8 ports 3400-4200 MHz

Small Cell Omni antenna with integrated GPS unit

 Supports multi-carrier deployments with 4x4 MIMO capability with all bands Excellent cross-polar discrimination for enhanced MIMO performance

Center-mounted lift ring for easy installations

Future-proof design to support up to 4200 MHz for C-Band spectrum

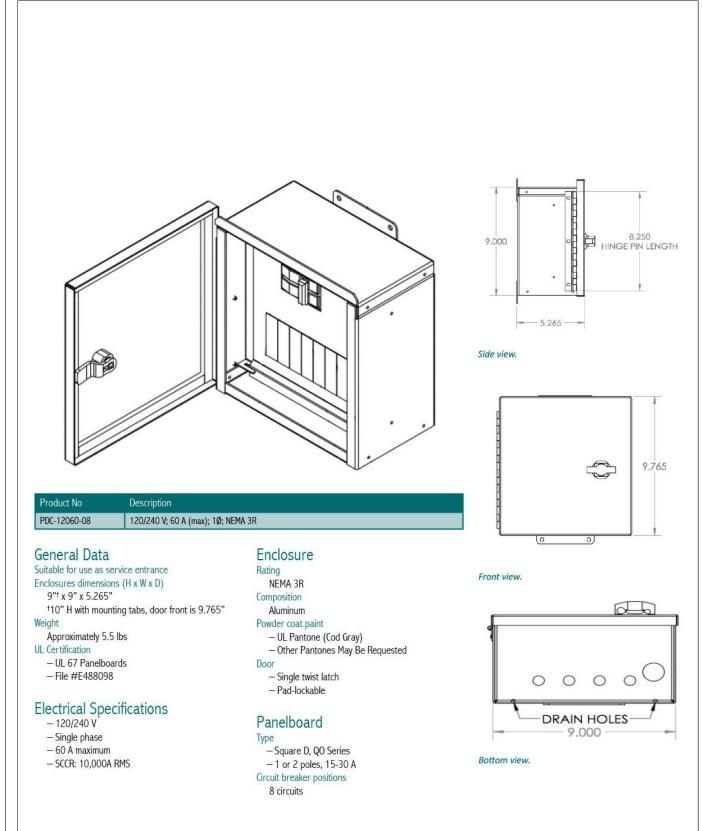
. Optimal 3400-4200 MHz gain to realize EiRP limit

	GPS band	Low	band	Mid band (6x) 1695-2700					CBRS/C-band (4x) 3400-4200				
Frequency bands, MHz	1575.42	(2x) 6	96-960										
Array		■ R1	■R2	¥1	Y2	1 Y3	¥4	Y5	Y6	■P1	■P2	■P3	■ P4
Connector	1 PORT	4 PC	ORTS	rs 12 PORTS			8 PORTS						
Polarization	RH CIR.	XPOL		XPOL					XPOL				
Horizontal beam- width (HBW), degrees ¹	-	360		360					360				
Electrical downtilt (EDT), degrees ¹	-	0		2, 4, 6					0				
Configuration		Omni antenna with integrated GPS unit											
Connector type		(24x) 4.3-10 female and (1x) N-type female for GPS											
Dimensions, in. (mm)		24.0/ 14.6 (609.6/ 370.8)											
Radome color		Gray (Pantone 420C), Brown (Pantone 476C), or Black (RAL 9011)											
Maximum composite													

NAV

Dimensions height/diameter, inches (mm)	24.0/ 14.6 (609.6/ 370.8)
Antenna volume (cubic feet)	2.32
No. of RF input ports, connector type, and location	24 x 4.3-10 RF, 1 x N-type GPS female, bottom
RF connector torque	96 lbf·in (10.85 N·m or 8 lbf·ft)
Net antenna weight, lb (kg)	36 (16.32)
Rated wind survival speed, mph (km/h)	150 (241)
Frontal wind loading @ 160 km/h, lbf (N)	30 (133)
Equivalent flat plate @ 100 mph and Cd=2, sq ft	1.17/0.69

ANTENNA SPEC. (4G) SCALE: N.T.S. 14



SCALE: N.T.S. **18 ELECT. DISCONNECT SPEC.**



FRONTHAUL SPEC.

FlexWave Prism

Termination Panel

Indoor/Outdoor Wall Mount

Applications

- CATV Networks

- Instrumentation

- Local Area Networks

Telecommunication Networks

- Data Communication Networks

Flexible Outdoor Wireless Coverage and Capacity



Remote Unit Environmental Specifications

power, watts (all

Outside Ambient

SCALE: N.T.S. 10

Temp Rating: -40° C to +50° C (-40° F to +122° F) Storage Temperature: -40° C to +70° C (-40° F to +158° F) Humidity: 10% to 90% non-condensing 20kA IEC 1000-45 8/30 μs Waveform Lightning Protection:

Remote Unit

IP-65, (Fan IP-55) **Enclosure:** Wall, Pole, Inside Pole, and Vault Mounting: Fan (external only) Cooling:

Sealed HMFOC (Multi-fi ber connector - 8 fi bers) or pass-through **Optical Connectors:**

Dimensions:

	Dimensions			Weight	Weight		
		(H x W x D)		(Chassis Only)	(With RF Modules)	Volume	
Ouad Dand	52.4"	12.2"	11.2"	116 lbs.	188 lbs.	3.40 cubic ft	
Quad-Band	133.10 cm	30.99 cm	28.45 cm	53 kg	85 kg	.096 cubic M	

19-inch rack Mounting: Dimensions (H x W x D): 5.25" x 19" x 8.43" (13.34 cm x 48.26 cm x 21.41 cm) (3 RUs)

21 to 60 VDC

Yes (optional external UPS)

<25 Pounds (<11 kg) Weight: **Remote Unit Power Requirements**

100-240 VAC, 50-60 Hz Power Supply: 48 VDC (OPTIONAL)

Battery Backup: **Host Unit Power Requirements**

Power Source: **Element Management**

Embedded EMS: SNMP Based Management

Note: Unless noted otherwise specifications are typical and subject to change. Fully Populated.



> 8 antenna ports, 4TX/4RX for 2 bands with separate RF ports > Up to 320W RF Power shared between 2 bands

> 4x40W on each band or > 4x20W on B2 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 wo protruding items

w protruding items > -48 VDC

2x26A fuse (2 power connectors, 2 or 3 wire) (26A for 4x60W)

AISG TMA & RET support (2 Bias-T, 1 ALD port) Type 4.3-10 RF connectors

2 external alarms > IP 65, -40 to +55 ℃



Portrait Mount Only

NODE ADDRESS

HUB AREA



SHEET TITLE

EQUIPMENT SPECIFICATIONS

SHEET NUMBER

FIBER TERMINATION PANEL SPEC. SCALE: N.T.S. 8

16 Port

8.86" L x 11.89" W x 2.8" D

Max. 2 Ports (Max. Dia: 0.47")

Max. 16 Ports (Max. Dia: 0.12")

16 Core

-40° - +85°C

4412.99 N

77lbs. cm/cm (normal temp.)

22 lbs. cm/cm (-30°C)

4412.99 N

2.9 lbs.

EXISTING EQUIPMENT SHROUD SPEC.

SCALE: N.T.S. | **16** | |

RADIO SPEC.

SCALE: N.T.S. | **20** |

SUBMITTAL 1ST SUBMITTAL 11.22.21 2ND SUBMITTAL 01.07.22 01.28.22 3RD SUBMITTAL 07.11.22 RESUBMITTAL

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DUBLIN, CA 94568

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CELL - 5G UPGRADE

PROJECT NAME MERCER ISLAND SMALL

NODE NUMBER

MIV 43

8215 SE 78th ST., MERCER ISLAND, WA 98040

VZW MERCER ISLAND HUB

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