



VERIZON WIRELESS - PROPOSED SMALL CELL COLOCATION | SC_WOODSTOCK_13

Located between the lot lines of: 163 & 165 Walnut Hall Circle, Woodstock, GA 30189

Lat & Long: 34.1390240, -84.5378660





10300 OLD ALABAMA ROAD CONNECTOR
ALPHARETTA, GA 30022

SITE NAME: SC_WOODSTOCK_13D

SITE ADDRESS:

163 WALLNUT HALL CIR
WOODSTOCK, GA 30189
COBB COUNTY

LOCATION NUMBER:

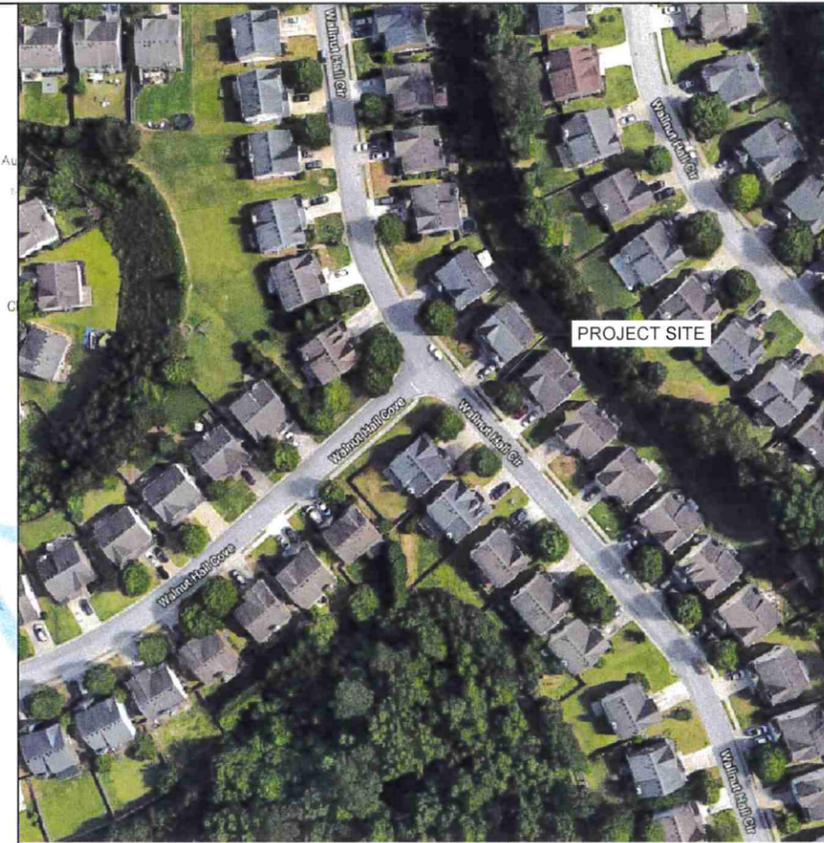
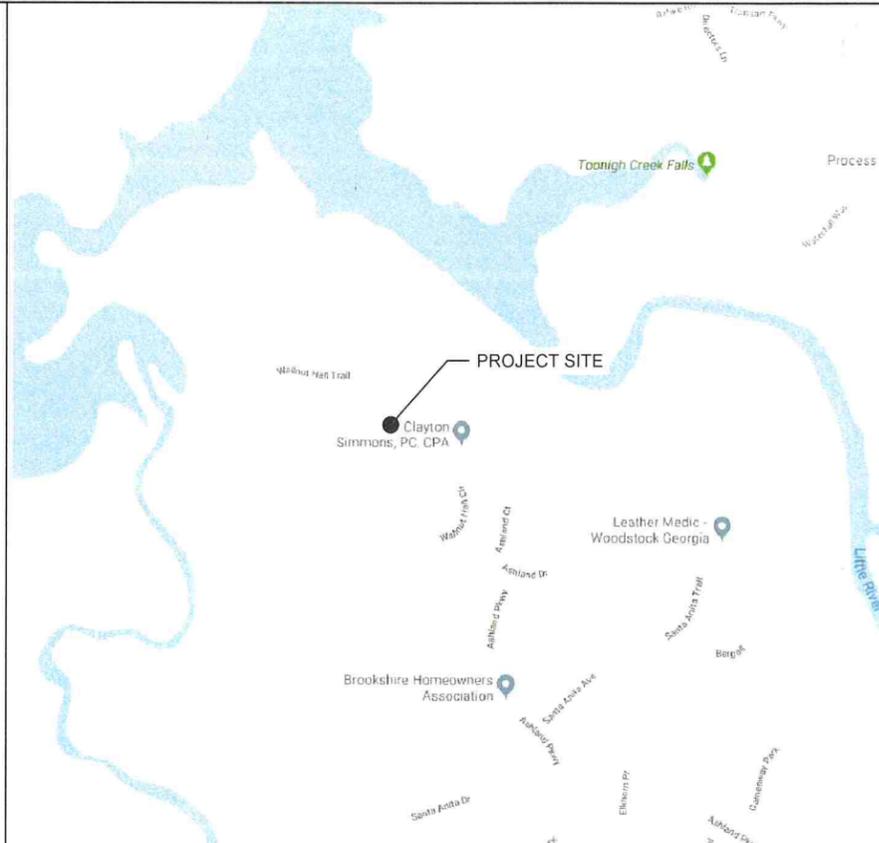
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POLE OWNER:

GEORGIA POWER ODL

SITE DATA:

LATITUDE: 34.1390240
LONGITUDE: -84.5378660
GROUND ELEVATION: 952.0' A.M.S.L.
34°08'20.49"N 84°32'16.32"W



SITE IDENTIFICATION

VICINITY MAP

LOCATION MAP



VERIZON WIRELESS
10300 OLD ALABAMA ROAD CONN.
ALPHARETTA, GA 30022
PHONE: (678) 277-3651
ATTN.: KRISTEN PLUMMER



KIMLEY-HORN AND ASSOCIATES, INC.
11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GA 30009
PHONE: (678) 274-5032
ATTN.: DAVID COUSINS, P.E.

THIS PROJECT CONSISTS OF THE REMOVAL OF AN EXISTING DECORATIVE METAL LIGHT POLE, OWNED BY GEORGIA POWER ODL, THE INSTALLATION OF A PROPOSED DECORATIVE METAL LIGHT POLE, BY GEORGIA POWER ODL, AND PROPOSED SMALL CELL EQUIPMENT ALONG WITH ASSOCIATED ELECTRICAL COMPONENTS, MOUNTING HARDWARE AS NEEDED AND ALL ASSOCIATED WORK.

FIBER TO BE BROUGHT TO A HANDHOLE AT BASE OF POLE.
POWER ROUTE TO BE DETERMINED.

PROJECT TEAM

PROJECT SUMMARY

ELECTRIC: COBB EMC

FIBER: VERIZON ONE FIBER

PROPERTY/ROW OWNER: CITY OF WOODSTOCK

APPLICANT: VERIZON WIRELESS
10300 OLD ALABAMA ROAD CONN.
ALPHARETTA, GA 30022
PHONE: (678) 277-3651
ATTN.: KRISTEN PLUMMER

SHEET NO.	SHEET TITLE
T1	TITLE SHEET
N1	GENERAL NOTES
C1	OVERALL SITE PLAN
C2	SITE PLAN & EXISTING POLE PHOTO
C3	POLE ELEVATIONS
C4	EQUIPMENT SPECIFICATIONS
C5	EQUIPMENT SPECIFICATIONS
E1	ELECTRICAL NOTES
E2	PANEL SCHEDULE & RISER DIAGRAM
E3	GROUNDING DETAILS

PROJECT INFORMATION

SHEET INDEX



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PLANS PREPARED BY:



11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GA 30009
PHONE: 770-619-4280
WWW.KIMLEY-HORN.COM

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KHA PROJECT NUMBER:

018985803

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BNA TRN

SHEET TITLE:

TITLE SHEET

SHEET NUMBER:

T1

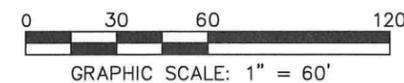


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1 OVERALL SITE PLAN
C1 SCALE: 1" = 60'



NOTE:
 INFORMATION SHOWN ABOVE WAS REPRODUCED FROM COBB COUNTY GIS APPLICATION INFORMATION AND GOOGLE EARTH, AND IS PROVIDED HERE FOR ILLUSTRATIVE PURPOSES ONLY.



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**OVERALL
 SITE PLAN**

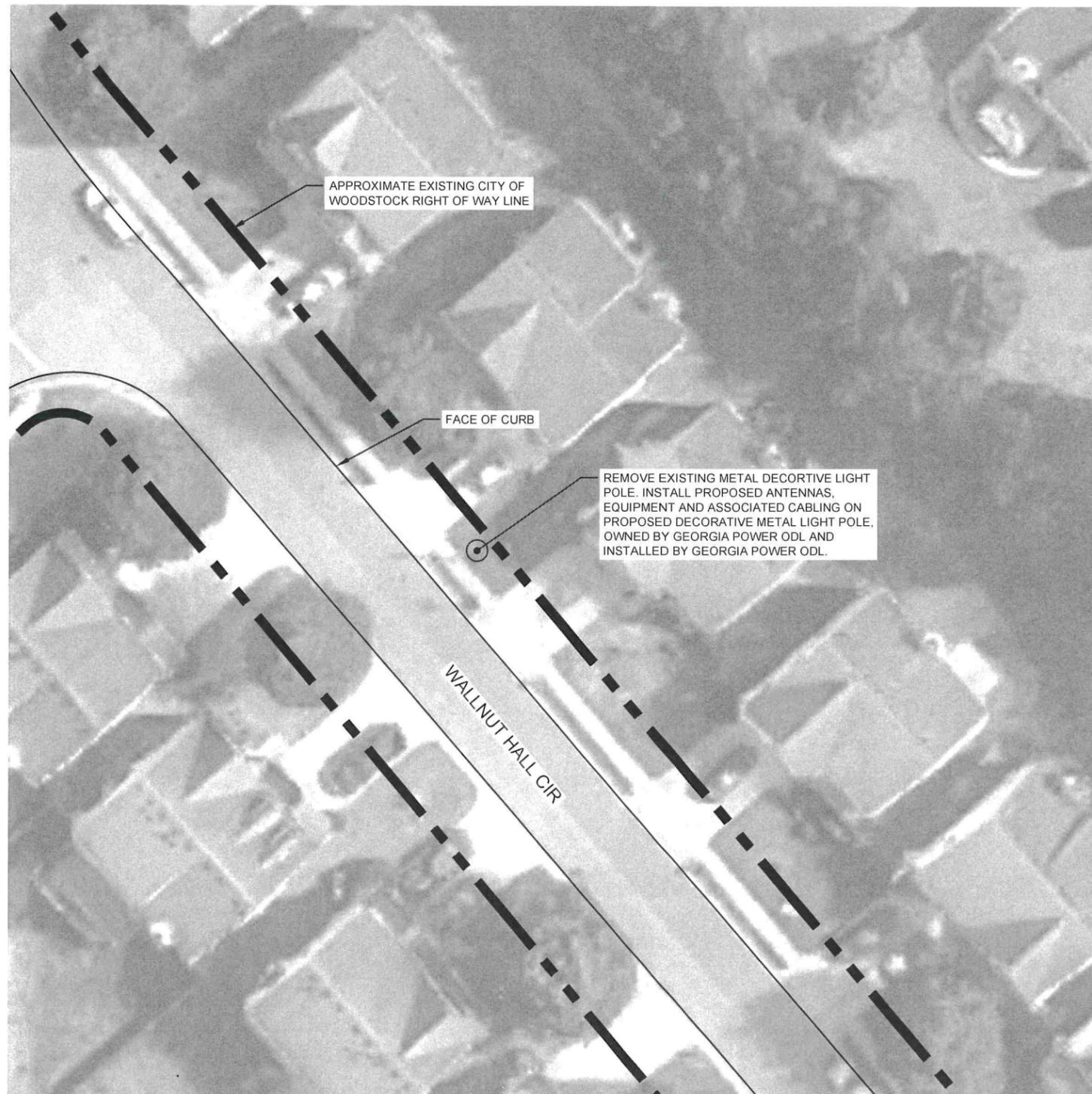
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C1

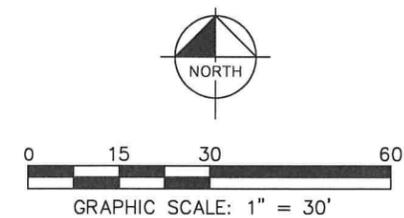
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1 EXISTING POLE PHOTO
C2 NOT TO SCALE



2 SITE PLAN
C2 SCALE: 1" = 30'



verizon
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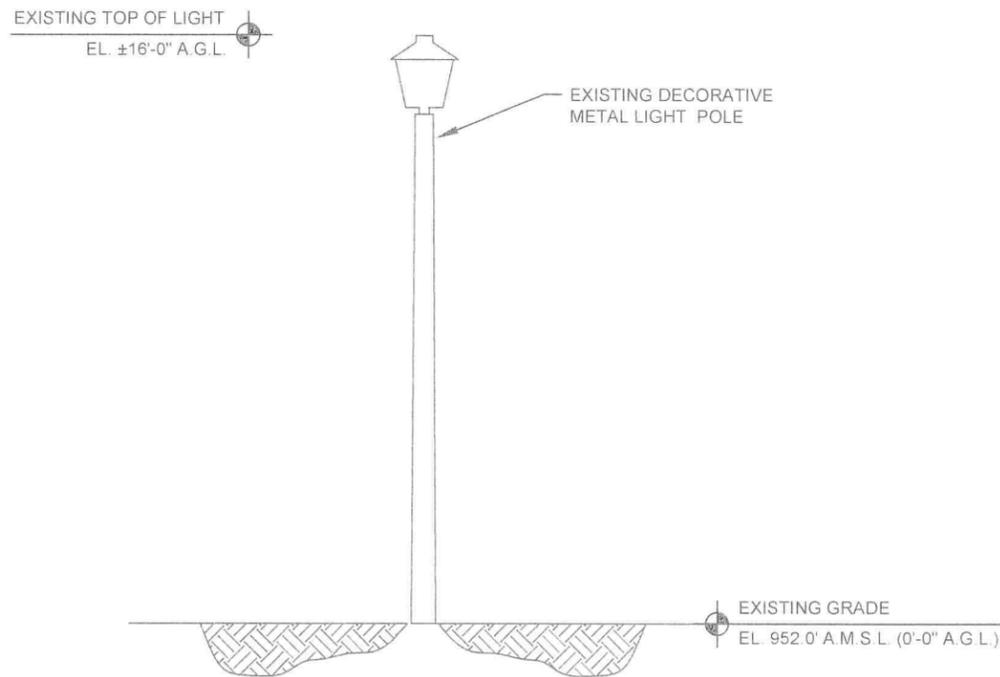
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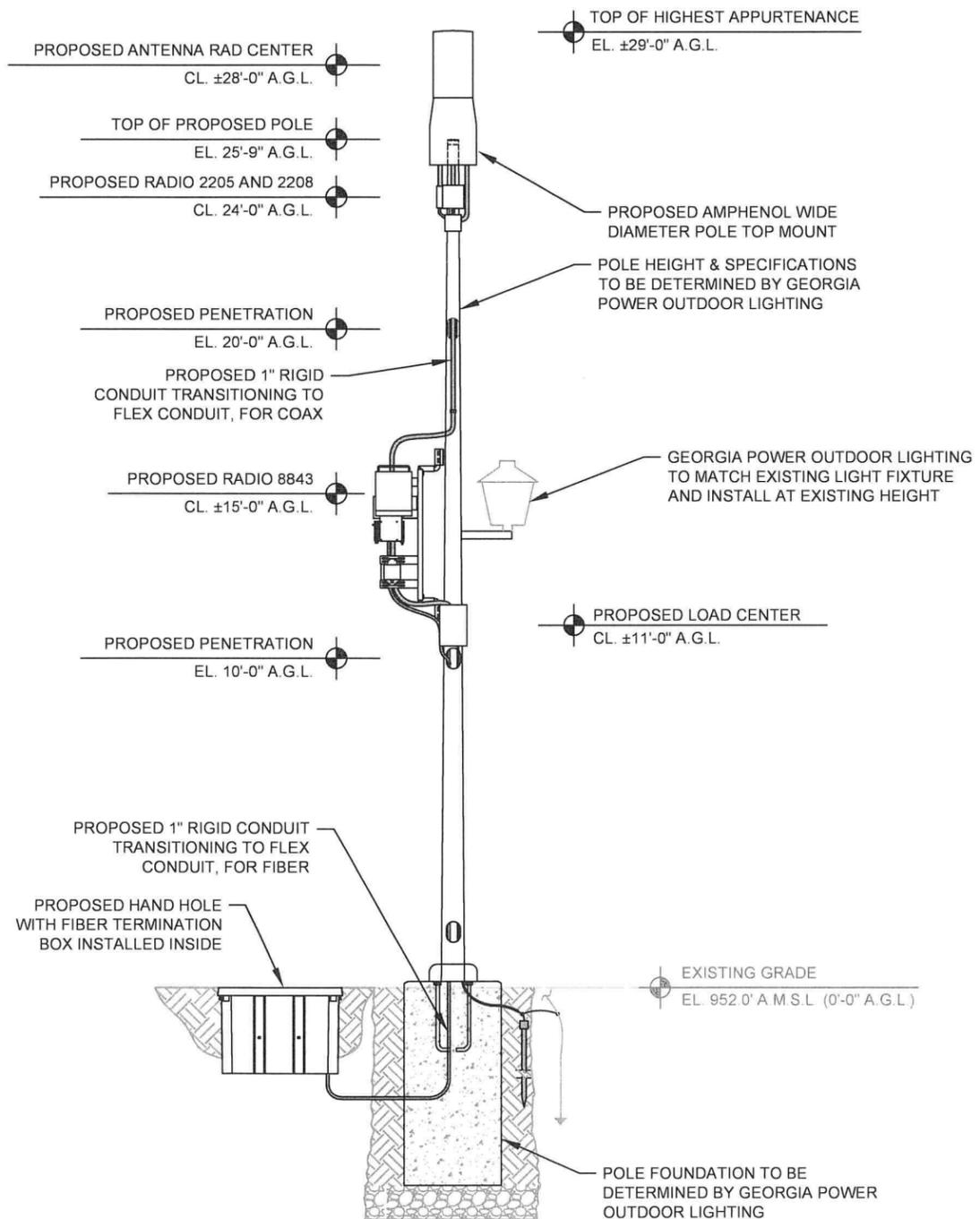
SHEET TITLE:
**SITE PLAN &
EXISTING POLE
PHOTO**

SHEET NUMBER:
C2

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1 EXISTING POLE ELEVATION
C3 SCALE: 1" = 5'



2 PROPOSED POLE ELEVATION
C3 SCALE: 1" = 5'

NOTE: SEE FINAL RFDS FOR FINAL AZIMUTHS, FINAL SECTOR COUNT, AND ANY TILTS.

NOTE: SEE REGULATORY MITIGATION DOCUMENTS FOR APPROPRIATE MITIGATION REQUIREMENTS.



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POLE ELEVATIONS

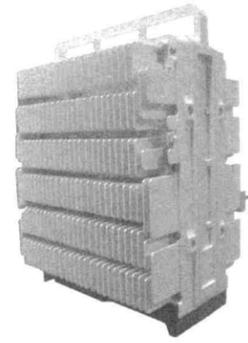
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C3

RADIO 8843 – B2 & B66A 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 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
- 2 x 10 Gbps CPRI
- Size and Weight:

Radio 8843 - B2 & B66A	Height	Width	Depth	Weight
wo protruding items	15 in (380 mm)	13.2 in (335 mm)	11.1 in (282 mm)	75 lbs (34.02 Kg)
w protruding items	18 in (455 mm)	13.2 in (335 mm)	11.3 in (287 mm)	



Portrait Mount Only

- 48 VDC
- 2x26A fuse (2 power connectors, 2 or 3 wire) (26A for 4x60W)
- AISG TMA & RET support (2 Bias-T, 1 ALD port) **Now confirmed max measurements/ will not exceed**
- Type 4.3-10 RF connectors
- 2 external alarms
- IP 65, -40 to +55°C

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1 RADIO SPECIFICATIONS C5 NOT TO SCALE

RADIO 2208 B48 - CBR5

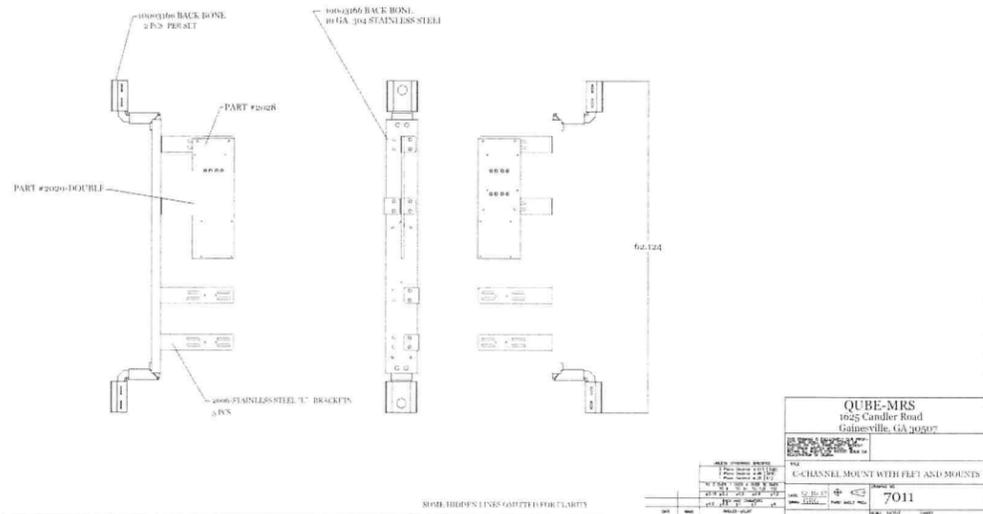
Capacity and Specifications	
- 3GPP: B48	- 3 LTE carriers
- 2TX/2RX	- Output Power 2x10 W
- 4TX/4RX by use of 2x2208	
- 60 MHz IBW	

Other Specifications	
- AC or -48 VDC	- 2 external alarm
- Integrated or external antenna	- IP 65, -40 to +55°C
- 3.5 GHz	- 2x 10Gbps CPRI

Size and Weight				
Radio 2208 (1 unit)	Height	Width	Depth	Weight
With Integrated Antenna	8.43 In	7.88 In	4.8 In	12.1 lbs

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2 RADIO SPECIFICATIONS C5 NOT TO SCALE



3 RADIO MOUNT SPECIFICATIONS C5 NOT TO SCALE

HW ready for 5G NR SW upgrade

1 x Radio 2208
2 TXR 60 MHz OBW

2 x Radio 2208
2 TXR 120 MHz OBW
4 TXR 60 MHz OBW



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EQUIPMENT SPECIFICATIONS

SHEET NUMBER:
C5

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CODES, STANDARDS, AND SPECIFICATIONS

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL MATERIALS AND LABOR RELATED DIRECTLY OR INDIRECTLY TO ALL ELECTRICAL WORK DOCUMENTED IN THESE DRAWINGS SHALL BE PROVIDED AND PERFORMED IN CONFORMANCE WITH ALL CURRENT GOVERNING CODES, STANDARDS, AND PROFESSIONAL STANDARD OF CARE TO INCLUDE THE AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM), UNDERWRITERS LABORATORY (UL), NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA), AMERICAN STANDARDS ASSOCIATION (ASA), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), AND THE NATIONAL ELECTRICAL CODE (NEC).
- MATERIALS SHALL BE NEW AND SHALL CONFORM TO ALL APPLICABLE CURRENT GOVERNING STANDARDS ESTABLISHED FOR EACH ITEM BY ASTM, UL, NEMA, ASA, AND NFPA.
- ALL ELECTRICAL WORK SHALL COMPLY WITH ALL APPLICABLE STATE, COUNTY, AND MUNICIPAL CODES AND ORDINANCES, AS WELL AS ALL CURRENT GOVERNING STANDARDS AND PRACTICES AS REQUIRED BY NEC, NEMA, ANSI, NFPA, UBC, UL, IEEE, AND THE LOCAL UTILITY COMPANY.
- ALL ELECTRICAL GROUNDING SHALL COMPLY WITH THE CURRENT EDITION OF THE NEC.
- CONTRACTOR SHALL MAINTAIN UL LISTED FIRE RATINGS OF ANY WALL PENETRATIONS.
- CONTRACTOR SHALL MAINTAIN A MINIMUM CLEARANCE OF 36" IN FRONT OF ALL ELECTRICAL EQUIPMENT AS REQUIRED BY NEC.

GENERAL

- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND ASSOCIATED FEES RELATED TO THE PROJECT AND SHALL DELIVER A COPY OF ALL PERMITS TO THE VERIZON REPRESENTATIVE.
- CONTRACTOR SHALL SCHEDULE AND SHOULD ATTEND ALL INSPECTIONS REQUIRED BY THE JURISDICTION HAVING AUTHORITY.
- CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS, ACCESSORIES, ETC., FOR A COMPLETE WORKING ELECTRICAL INSTALLATION.
- ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH APPLICABLE BUILDING CODES AND LOCAL ORDINANCES, INSTALLED IN A NEAT MANNER, AND SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER.
- CONTRACTOR SHALL PROTECT ADJACENT EQUIPMENT AND FINISHES FROM DAMAGE AND SHALL REPAIR TO ORIGINAL CONDITION ANY ITEMS DAMAGED AS A RESULT OF THE WORK
- IF CONDUIT RUNS HAVE MORE THAN THREE (3) CONSECUTIVE 90 DEGREE TURNS, THEN CONTRACTOR SHALL INSTALL PULL BOXES AS REQUIRED BY NEC.
- WHEN INSTALLING A NEW GROUND ROD, MAINTAIN 6' MINIMUM DISTANCE FROM EXISTING GROUND RODS.

MATERIALS

- ALL EQUIPMENT AND MATERIALS SHOWN SHALL BE CONSIDERED NEW UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS.
- FINAL CONNECTIONS OF EQUIPMENT SHALL BE PER MANUFACTURER'S APPROVED WIRING DIAGRAMS, DETAILS, AND INSTRUCTIONS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT SUPPLIED BY VERIZON.
- CONTRACTOR SHALL SEAL ALL CONDUITS ENTERING AN ENCLOSURE WITH CONDUIT SEALANT THAT IS COMPATIBLE WITH THE INSULATION OF THE CONDUCTORS IN THE CONDUIT.
- CONDUIT RUNS SHALL HAVE A CONTINUOUS DOWNWARD SLOPE AWAY FROM ALL EQUIPMENT TO PREVENT WATER INFILTRATION.
- CONTRACTOR SHALL FIELD DETERMINE ACTUAL CONDUIT ROUTING AND SHALL OBTAIN APPROVAL FROM VERIZON AND AHJ OF THE PROPOSED ROUTING PRIOR TO CONDUIT INSTALLATION.
- ALL CONDUCTORS SHALL BE COPPER WITH THWN INSULATION AND ALL TERMINATIONS SHALL BE RATED FOR AT LEAST 75 DEGREES CELSIUS. INSULATION TO BE RATED SUNLIGHT RESISTANT WHERE EXPOSED.
- ALL NEUTRAL CONDUCTORS SHALL HAVE WHITE INSULATION. ALL GROUND CONDUCTORS SHALL HAVE GREEN INSULATION. COLOR TAPE IDENTIFICATION OF THESE CONDUCTORS IS NOT PERMITTED.

PRE-CONSTRUCTION COORDINATION

- CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID AND NOTE EXISTING CONDITIONS THAT MIGHT AFFECT THEIR WORK. ALL SUCH CONDITIONS SHALL BE REPORTED TO THE ENGINEER PRIOR TO BID.
- CONTRACTOR SHALL PROVIDE A UTILITY LOCATOR AND SHALL VERIFY THE ACTUAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL VERIFY, PRIOR TO ROUGH-IN, THAT SITE CONDITIONS ALLOW FOR THE PLACEMENT OF THE ELECTRICAL EQUIPMENT AS SHOWN ON THE PLANS.
- ALL OUTAGES SHALL BE CONDUCTED AT A TIME AGREED UPON IN WRITING WITH THE BUILDING OWNER. POWER OUTAGE DURATION SHALL BE PRE-APPROVED IN WRITING BY THE BUILDING OWNER.
- CONTRACTOR SHALL PERFORM AN ARC FLASH ANALYSIS AT THE LOAD CENTER ON THE VERIZON TELECOMMUNICATIONS CABINET AND PROVIDE ARC FLASH LABEL PER NEC.
- WHEN A NEW ELECTRICAL SERVICE IS REQUIRED, CONTRACTOR SHALL COORDINATE WITH LOCAL ELECTRICAL UTILITY REGARDING THE EXACT LOCATION OF THE TRANSFORMER, ALL METERING REQUIREMENTS, AND CONDUIT ROUTING BETWEEN TRANSFORMER AND METER.
- ALL CIRCUIT BREAKERS AND EQUIPMENT SHALL HAVE A MINIMUM AIC RATING OF 10,000 AMPS. IF THE RATING OF THE UTILITY TRANSFORMER PROVIDING THE ELECTRICAL SERVICE IS GREATER THAN 75 KVA, THE CONTRACTOR SHALL PERFORM A SHORT CIRCUIT CURRENT ANALYSIS TO DETERMINE THE REQUIRED AIC RATING FOR THE CIRCUIT BREAKERS AND THE EQUIPMENT. PRIOR TO PURCHASING EQUIPMENT, THE CONTRACTOR SHALL CONTACT THE ELECTRIC UTILITY AND OBTAIN IN WRITING THE MAXIMUM AVAILABLE FAULT CURRENT (AFC) AT THE UTILITY SERVICE POINT. PROVIDE MAX. AFC SIGNAGE AS REQUIRED PER NEC 110.24. THE CONTRACTOR SHALL ENSURE ALL ELECTRICAL EQUIPMENT, CIRCUIT BREAKERS, DISCONNECTS, FUSES, AND PANELBOARDS HAVE A FAULT CURRENT INTERRUPTING RATING GREATER THAN THE AVAILABLE FAULT CURRENT.



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ELECTRICAL
NOTES

SHEET NUMBER:

E1

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**PANEL SCHEDULE
& RISER DIAGRAM**

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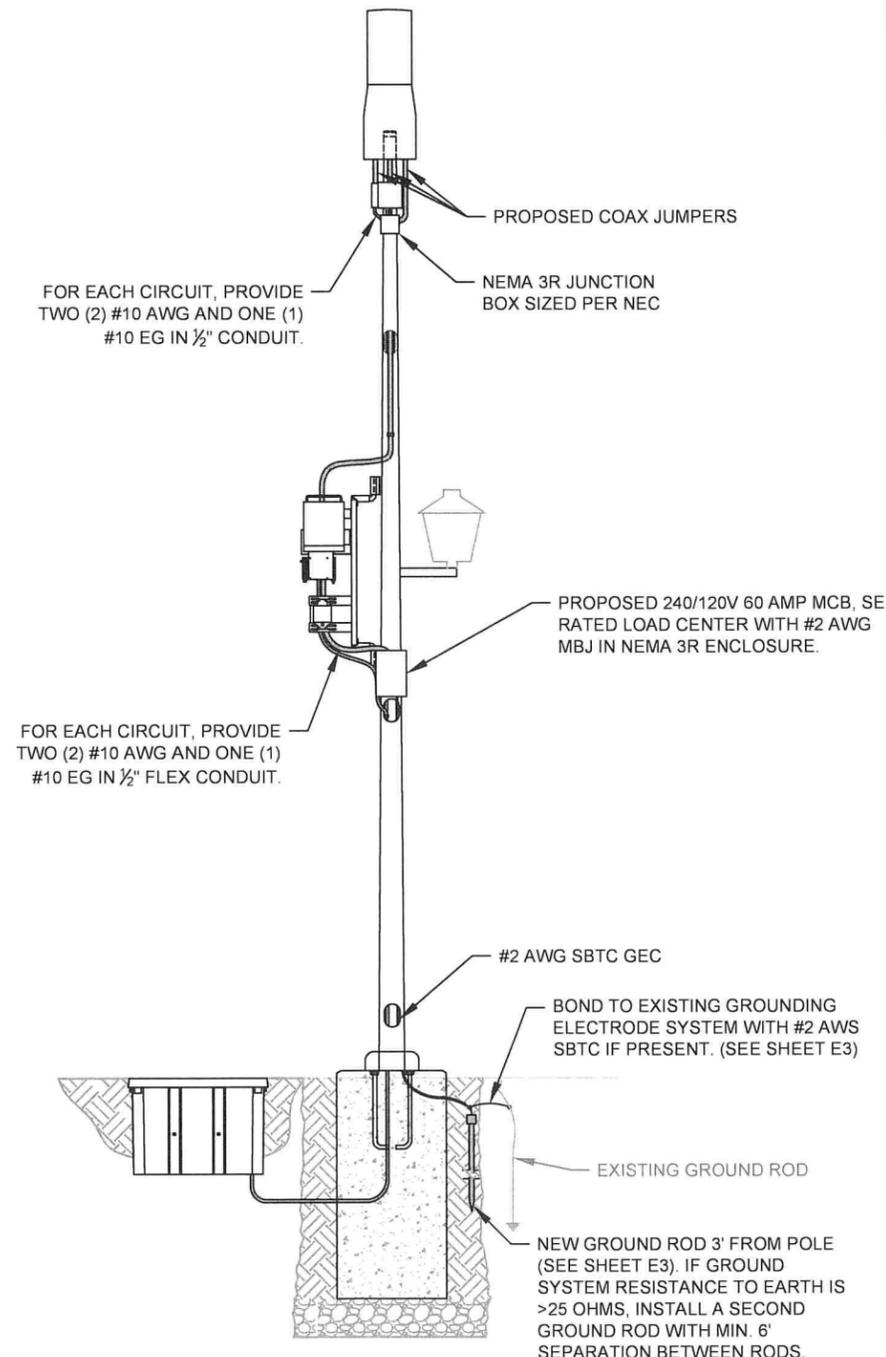
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PANEL SCHEDULE											
Voltage: 240/120 Volts						MCB Size: 100 Amps					
Phase, Wires: Single Phase, 3 Wire						AIC Rating: 10,000 Amps min					
Mounting Type: Surface						Bus Rating: 100 Amps					
Enclosure Type: NEMA 3R						Neutral Rating: 100%					
Load Served	Load (kVA)		Circuit Bkr Size	Ckt Nbr	Phase		Ckt Nbr	Circuit Bkr Size	Load (kVA)		Load Served
	A	B			A	B			A	B	
PSU AC08-1	1.05		1P-20	1	*		2	1P-20	1.05		PSU AC08-3
PSU AC08-2		1.05	1P-20	3		*	4	1P-20		1.05	PSU AC08-4
				5	*		6	1P-20	1.05		PSU AC08-5
				7		*	8	1P-20		1.05	PSU AC08-6
Sub-Total (kVA)	1.05	1.05							2.10	2.10	Sub-Total (kVA)

Load Description	Connected Load (kVA)		Demand Factor	Demand Load (kVA)		
	A	B		A	B	
RADIO EQUIPMENT	3.15	3.15	1.25	3.94	3.94	
LIGHTING			1.25	0.00	0.00	
DUPLEX RECEPTACLES			1.00	0.00	0.00	
TOTAL MISCELLANEOUS			1.25	0.00	0.00	
Total Power per Phase				3.94	3.94	kVA
Total Demand Current per Phase				32.81	32.81	Amps
Total Demand Power				7.88		kVA

LOAD SUMMARY		Total Connected (kVA)	
Load Description	Demand Load (kVA)	A	B
		3.15	3.15
		6.30	

1 PANEL SCHEDULE
E2 NOT TO SCALE



2 RISER DIAGRAM
E2 NOT TO SCALE



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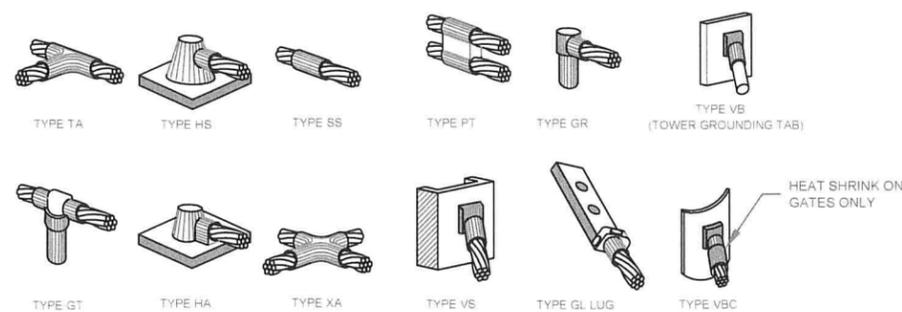
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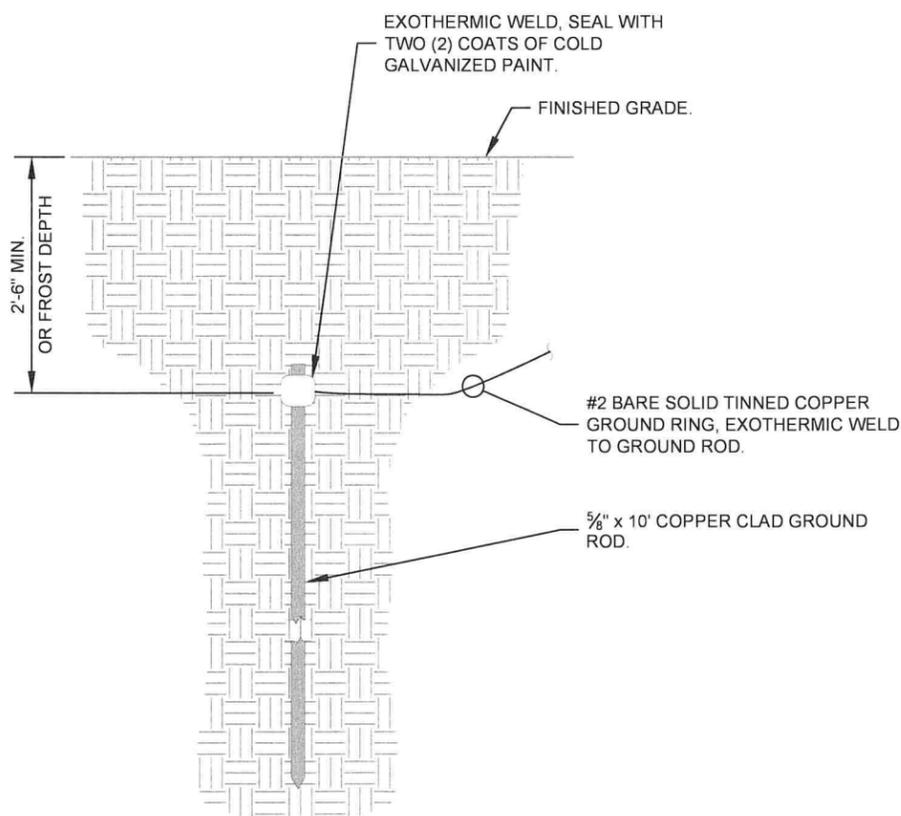


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NOTE:
CADWELD "TYPES" SHOWN ABOVE ARE EXAMPLES.
PROVIDE APPROPRIATE TYPES AS REQUIRED.

1 TYPICAL CAD WELDS
E3 NOT TO SCALE



2 GROUND ROD DETAIL
E3 NOT TO SCALE

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SHEET TITLE:

GROUNDING
DETAILS

SHEET NUMBER:

E3

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