



CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERING DIVISION

COLEMAN A. YOUNG MUNICIPAL CENTER
2 WOODWARD AVE. SUITE 601
DETROIT, MICHIGAN 48226
PHONE: (313) 224-3949 TTY: 711
WWW.DETROITMI.GOV

10/07/2025

HOUSE NUMBER CERTIFICATE

10735

Applicant:

Telecad Wireless on behalf of Verizon Wireless
Email/Phone: traci.morgan@telecadeng.com

City of Detroit – City Engineering Division of the Department of Public Works in accordance with City Code section 43-2-13 hereby assign and following addresses to the nearby parcel:

Address	Type	Status
3191 Alter Road	Primary	Active

Nearby Parcel Legal Description:

S MACK LOTS 125 THRU 139; 277 THRU 310; 449 THRU 474 C B SHERRARD SUB L32 P58, WCR; ALSO VAC ASHLAND & MANISTIQUE AVES (60 FT WD) & VAC ALLEYS ADJ ALL DES AS BEG AT SW COR MACK AVE (120 FT WD) & ALTER RD (66 FT WD);

TH S 26D 18M 09S, E 274.67 FT ALG SD W LINE OF ALTER RD TO SE COR OF LOT 474; TH S 64D 38M 18S, W 116.98 FT TO THE NE COR OF LOT 451; TH S 26D 04M 36S E 90.00 FT ALG THE E LINE OF SD LOTS 449 THRU 451 TO THE SE COR OF LOT 449; TH S 64D 38M 18S W, 436.02 FT TO A PTE ON THE W LINE OF MANISTIQUE AVE (60 FT WD); TH S 26D 04M 36S E, 30.00 FT TO THE SE COR OF LOT 139; TH S 64D 38M 18S W, 100.00 FT TO THE SW COR OF SD LOT 139 TO E LINE OF PUBLIC ALLEY 16 FT WD; TH N 26D 04M 36S W, 478.05 FT ALG SD E LINE TO N LINE OF A 18.00 FT WD VAC PUBLIC ALLEY; TH N 78D 00M 34S E, 103.09 FT ALG SD N LINE TO THE SE COR OF LOT 124 TO A PTE ON THE W LINE OF MANISTIQUE AVE (60 FT WD); TH N 26D 04M 36S W, 70.84 FT ALG SD W LINE TO S LINE OF SD MACK AVE; TH N 77D 53M 32S E, 568.69 FT ALG SD S LINE TO POB AND CONTAINING 268,151.8 S.F.

Parcel Number: 21001009-17

Summary:

3191 Alter Rd is assigned as the primary address for Verizon Wireless small cell pole near the parcel which has the legal address of **14632 MACK Ave.**



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Prepared by:
Maps and Records Bureau
City Engineering – DPW
Phone: 313-224-3970

PROJECT SUMMARY

SITE NAME: 24210
 SITE ADDRESS: 14838 MACK AVE
 (ESTIMATED) DETROIT, MI 48215
 COUNTY: WAYNE
 JURISDICTION: CITY OF DETROIT
 SITE COORDINATES:
 LATITUDE: 42° 23' 13.164" N
 LATITUDE: 42.38699°
 LONGITUDE: 82° 56' 51.396" W
 LONGITUDE: -82.94761°
 ELEVATION: ±590'-10"
 PROPERTY DEFINITION: R.O.W.
 FUZE PROJECT ID: 17119191
 MDG LOCATION ID: 5000939329
 PROPOSED POLE HEIGHT: 40'-0"
 PROPOSED POLE CLASS: 2



SITE NAME: 24210

**PROPOSED SMALL CELL EQUIPMENT
 ON A NEW VERIZON POLE**

SHEET INDEX

NO.	DESCRIPTION
T1	TITLE SHEET
GN1	GENERAL NOTES
C1	SITE LAYOUTS
C1A	SITE LAYOUT - AERIAL IMAGERY
C2	POLE ELEVATION
C3	SITE DETAILS
C4	SITE DETAILS
C5	EQUIPMENT DETAILS
E1	UTILITY SITE PLAN
E2	ELECTRICAL DETAILS
E3	SINGLE LINE DIAGRAM
E3A	SINGLE LINE DIAGRAM

PREPARED FOR:



PREPARED BY:



1961 NORTHPOINT BLVD, SUITE 130
 HIXSON, TN 37343
 PH: 423-843-9500
 FAX: 423-843-9509

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DRAWN BY: TMJ
 CHECKED BY: SEH

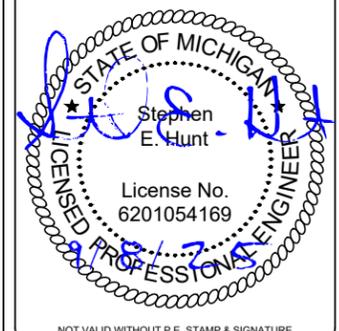
REVISIONS

NO.	DATE	BY	DESCRIPTION
1	09/12/25	ZCK	CONSTRUCTION ISSUE
0	09/08/25	JAF	CONSTRUCTION ISSUE
A	08/11/25	TMJ	PRELIMINARY REVIEW

SCOPE OF WORK

- INSTALLING NEW WOOD UTILITY POLE (CLASS 2)
- INSTALLING EQUIPMENT
 - (1) JMA CX08OHG236-1C2 CANTENNA
 - (3) ERICSSON 1672 ANTENNAS
 - (1) ERICSSON 4890 RRU
 - (1) ERICSSON 6308 PSU
 - CFIT BOX
 - (1) FIBER & (1) POWER CABLE PER ANTENNA
 - DISCONNECT

ENGINEER'S STAMP:



NOT VALID WITHOUT P.E. STAMP & SIGNATURE

STATE COUNTY MAP

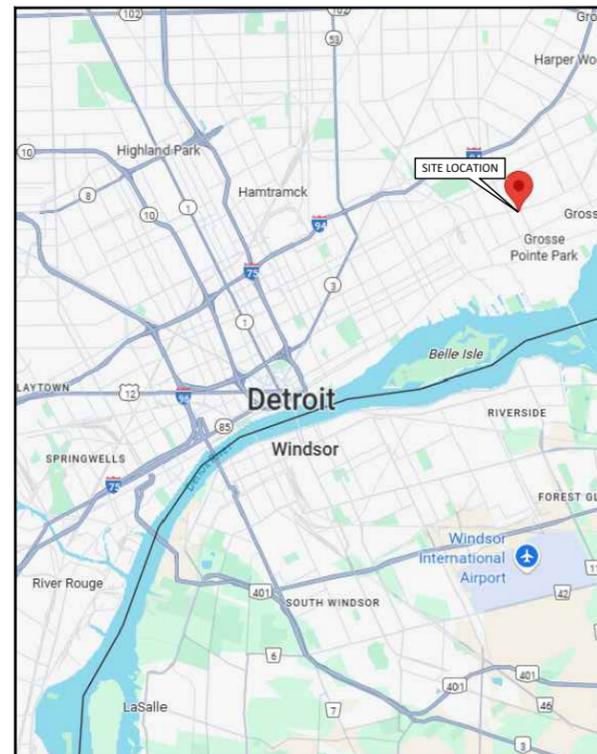


SITE NAME: 24210
 ADDRESS: 14838 MACK AVE
 DETROIT, MI 48215
 COUNTY: WAYNE
 LATITUDE: 42° 23' 13.164" N
 LONGITUDE: 82° 56' 51.396" W
 DESIGN TYPE: RAWLAND

SHEET TITLE:
TITLE SHEET

DRAWING NO. **T1** REVISION: **1**

VICINITY MAP



NOT TO SCALE

LOCATION MAP



NOT TO SCALE

STRUCTURAL REVIEW

STRUCTURAL ANALYSIS PERFORMED BY OTHERS.

SHEET SCALE FACTOR:
 PLOT SIZE:
 11" x 17": TO SCALE



1 (800) 482-7171
 www.missdig.com
 CONTRACTOR TO CALL MICHIGAN
 ONE-CALL SYSTEMS AT LEAST 72 HOURS
 PRIOR TO DIGGING.

GENERAL NOTES

1. THESE NOTES SHALL BE CONSIDERED A PART OF THE WRITTEN SPECIFICATIONS.
2. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED IN THE CONTRACT DOCUMENTS.
3. PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTOR(S) SHALL VISIT THE JOB SITE(S) AND BE RESPONSIBLE FOR ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED PER THE CONTRACT DOCUMENTS. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE IMPLEMENTATION ENGINEER AND ARCHITECT/ENGINEER.
4. THE CONTRACTOR SHALL RECEIVE WRITTEN AUTHORIZATION TO PROCEED ON ANY WORK NOT CLEARLY DEFINED OR IDENTIFIED IN THE CONSTRUCTION DOCUMENTS BEFORE STARTING ANY WORK.
5. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES INCLUDING APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS.
6. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH THE MANUFACTURER RECOMMENDATIONS. IF THESE RECOMMENDATIONS ARE IN CONFLICT WITH THE CONTRACT DOCUMENTS AND/OR APPLICABLE CODES OR REGULATIONS, REVIEW THE CONFLICT FOR DIRECTION WITH THE IMPLEMENTATION ENGINEER AND ARCHITECT/ENGINEER PRIOR TO PROCEEDING.
7. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES AND FOR COORDINATION OF ALL PORTIONS OF THE WORK UNDER THE CONTRACT INCLUDING CONTACT AND COORDINATION WITH THE IMPLEMENTATION TEAM AND WITH THE AUTHORIZED REPRESENTATIVE OF ANY OUTSIDE POLE OR PROPERTY OWNER. (BASE COMMANDER OR AUTHORIZED AGENT)
8. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, PAVING, CURBS, VEGETATION, GALVANIZED SURFACE OR OTHER EXISTING ELEMENTS AND UPON COMPLETION OF THE WORK, REPAIR ANY DAMAGE THAT OCCURRED DURING CONSTRUCTION TO THE SATISFACTION OF EXTENT.
9. KEEP THE 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 DAILY.
10. PLANS ARE INTENDED TO BE DIAGRAMMATIC ONLY AND SHOULD NOT BE SCALED UNLESS OTHERWISE NOTED. RELY ONLY ON ANNOTATED DIMENSIONS AND REQUEST INFORMATION IF ADDITIONAL DIMENSIONS ARE REQUIRED.
11. THE EXISTENCE AND LOCATION OF UTILITIES AND OTHER AGENCY'S FACILITIES ARE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. OTHER FACILITIES MAY EXIST BEYOND WHAT IS NOTED. CONTRACTOR SHALL VERIFY LOCATIONS PRIOR TO START OF CONSTRUCTION AND USE EXTREME CARE AND PROTECTIVE MEASURES TO PREVENT DAMAGE TO THESE FACILITIES. CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF UTILITIES OR OTHER AGENCY'S FACILITIES WITHIN THE LIMITS OF THE WORK, WHETHER THEY ARE IDENTIFIED IN THE CONTRACT DOCUMENTS OR NOT.
12. ALL MOUNTING HARDWARE SUCH AS BOLTS, NUTS, LAG SCREWS, CLEVIS, CONDUIT STRAPS, STAPLES, (ANYTHING EXPOSED AND CONNECTING EQUIPMENT TO THE POLE SHALL BE HOT DIPPED GALVANIZED, UNLESS OTHERWISE STATED)

DEFINITIONS

1. "TYPICAL" OR "TYP." MEANS THAT THIS ITEM IS VIRTUALLY IDENTICAL ACROSS SIMILAR CONDITIONS. "TYP." SHALL BE UNDERSTOOD TO MEAN "TYPICAL WHERE OCCURS" AND SHALL NOT BE CONSIDERED AS WITHOUT EXCEPTION OR CONSIDERATION OF SPECIFIC CONDITIONS.
2. "SIMILAR" MEANS COMPARABLE TO CHARACTERISTICS FOR CONDITION NOTED. VERIFY DIMENSIONS AND ORIENTATION ON PLAN.
3. "AS REQUIRED" MEANS AS REQUIRED BY REGULATORY REQUIREMENTS BY REFERENCED STANDARDS, BY EXISTING CONDITIONS, BY GENERALLY ACCEPTED CONSTRUCTION PRACTICE OR BY THE CONTRACT DOCUMENTS.
4. "ALIGN" MEANS ACCURATELY LOCATE FINISH FACES OF MATERIALS IN THE SAME PLANE.
5. THE TERM "VERIFY" OR "V.I.F" SHALL BE UNDERSTOOD TO MEAN VERIFY IN FIELD WITH ARCHITECT AND REQUIRES THAT THE CONTRACTOR CONFIRM INTENTION REGARDING NOTED CONDITION AND PROCEED ONLY AFTER RECEIVING DIRECTION.
6. WHERE THE WORDS "OR EQUAL" OR WORDS OF SIMILAR INTENT FOLLOW A MATERIAL SPECIFICATION, THEY SHALL BE UNDERSTOOD TO REQUIRE SIGNED APPROVAL OF ANY DEVIATION TO SAID SPECIFICATION PRIOR TO CONTRACTOR'S ORDERING OR INSTALLATION OF SUCH PROPOSED EQUAL PRODUCT.
7. FURNISH: SUPPLY ONLY, OTHERS TO INSTALL. INSTALL: INSTALL ITEMS FURNISHED BY OTHERS. PROVIDE: FURNISH AND INSTALL.

PROJECT SPECIFIC NOTES

1. THIS SET IS PROVIDED TO ILLUSTRATE THE EXPECTED SCOPE OF DRAWINGS, QUALITY OF DRAWINGS AND EXTENT GRAPHIC STANDARDS. NOTES ARE FOR A&E CONTRACTOR REFERENCE TO HELP CLARIFY THE SCOPE. ADDITIONAL DRAWINGS MAY BE REQUIRED TO MEET THE REQUIREMENTS OF A GIVEN BASE. ALL EXAMPLES SHOWN ARE FOR REFERENCE ONLY AND ANY NOTES, DETAILS, CALCULATIONS OR OTHER WORK NEEDS TO BE COMPLETED OR CONFIRMED BY THE CONTRACTOR GENERATING THE DRAWINGS IN CONSTRUCTION DOCUMENTS.
2. THIS SET IS TO BE PRINTED AT 11" x 17". IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONFIRM THIS SIZE IS ACCEPTABLE BY THE BASE AND TO PROVIDE A LARGER STANDARD SIZE IF REQUIRED.
3. IT IS THE RESPONSIBILITY OF THE ENGINEER TO CONFIRM ALL WORK SHOWN IS IN COMPLIANCE WITH BASE AND FEDERAL CODES. DRAWINGS SHOWN WITHIN THIS SET ARE SAMPLES AND MAY NOT REFLECT ALL OF THE REQUIRED ELEMENTS, CLEARANCES OR OTHER ITEMS OF ASSEMBLIES NEEDED TO BE CODE COMPLIANT IN THE PARTICULAR MUNICIPALITY THE NODE IS LOCATED WITHIN.

GROUND CONSTRUCTION NOTES:

1. 120/240V POWER REQUIRED FOR 3-WIRE SERVICE.
2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH FEDERAL STANDARDS AND REGULATIONS AS WELL AS NEC.
3. CALL MICHIGAN ONE CALL 72 HOURS PRIOR TO EXCAVATING AT (800) 482-7171.
4. ALL LANDSCAPING TO BE RESTORED TO ORIGINAL CONDITION OR BETTER.
5. ALL EQUIPMENT TO BE BONDED.
6. METERING CABINET (IF INSTALLED) REQUIRES 3' CLEARANCE AT DOOR OPENING.

STANDARD GROUNDING NOTES:

1. GROUND TESTED AT 25 OHMS OR LESS.
2. 5/8" x 8' RODS, CAD WELD OR UL LISTED DIRECT BURY CLAMP BELOW GRADE.
3. #6 GROUND AND BOND WIRE.
4. MOLDING, STAPLED EVERY 1' AND AT EACH END.
5. GROUND RODS 18" FROM POLE.

STANDARD CONDUIT NOTES:

1. FOR UNDERGROUND CONDUIT AND ABOVE GRADE RISERS USE SCHEDULE 40.
2. IF DIRECTIONAL BORING PLACE 2" CONDUIT FOR UNDERGROUND POWER APPLICATIONS.
3. IF TRENCHING, PLACE PVC SCH 40 CONDUIT PER TABLE ON SHEET E1 FOR UNDERGROUND POWER APPLICATIONS.
4. RISERS TO BE ATTACHED TO POLE WITH STANDARD STRAPS AND LAG SCREWS.
5. RISER STRAPS TO BE INSTALLED EVERY 5'.
6. CONDUIT UNDER 1" MAY BE ATTACHED WITH GROUND WIRE MOLDING STAPLES.
7. ALL CONDUIT WILL BE PROOFED WITH A MANDREL AND EQUIPPED WITH PULL ROPE OR MULE TAPE.

STANDARD TRENCHING NOTES:

1. MAINTAIN 42" MINIMUM COVER FOR ELECTRICAL CONDUIT.
2. MAINTAIN 42" MINIMUM COVER FOR COMMUNICATION CONDUIT.
3. IN STREET SLURRY TO GRADE AND MILL DOWN 1-1/2" FOR AC CAP.
4. IN DIRT SLURRY 18" FROM GRADE AND FILL WITH 95% COMPACTION NATIVE SOIL FOR BALANCE.
5. PLACE WARNING TAPE IN TRENCH 18" ABOVE ALL CONDUITS AND #18 WARNING TAPE ABOVE GROUND EQUIPMENT.

UTILITY POLE CONSTRUCTION NOTES:

1. NO BOLT THREADS TO PROTRUDE MORE THAN 1/2".
2. FILL ALL HOLES LEFT IN POLE FROM REARRANGEMENT OF CLIMBERS.
3. ALL CLIMB STEPS NEXT TO CONDUIT SHALL HAVE EXTENDED STEPS.
4. CABLE NOT TO IMPEDE 15" CLEAR SPACE OFF POLE FACE.
5. 90° SHORT SWEEP UNDER ANTENNA ARM. ALL CABLES MUST ONLY TRANSITION ON THE INSIDE OR BOTTOM OF ARMS (NO CABLE ON TOP OF ARMS).
6. USE CABLE CLAMPS TO SECURE CABLE TO ARMS; PLACE 2" CARRIER ID TAGS ON BOTH SIDE OF ARMS.
7. USE 90° CONNECTOR AT CABLE CONNECTION TO ANTENNAS.
8. USE 1/2" CABLE ON ANTENNAS UNLESS OTHERWISE SPECIFIED.
9. FILL VOID AROUND CABLES AT CONDUIT OPENING WITH FOAM SEALANT TO PREVENT WATER INTRUSION.

VERIZON WIRELESS CONSTRUCTION NOTES:

1. CONTRACTOR IS TO FOLLOW THE MOST CURRENT VZW STANDARDS DOCUMENTS PROVIDED TO COMPLETE THIS INSTALLATION.
2. CONTRACTOR SHALL COMPLETE VZW PROVIDED "SMALL CELL SWEEP REPORT" WITH ALL INFORMATION FILLED IN ACCURATELY AND COMPLETELY.
3. CONTRACTOR TO REFER TO THE MOST CURRENT VZW STANDARDS FOR APPROVED "PIM" TEST EQUIPMENT AND GUIDELINES.
4. CONTRACTOR IS TO USE BATTERY POWERED "PIM" EQUIPMENT TO VALIDATE THE FINAL LOCATION OF THE JUMPER AND ANTENNA ARE FREE OF INTERNAL AND EXTERNAL "PIM" SOURCES.
5. CONTRACTOR SHALL PROVIDE AT LEAST ONE TECHNICAL LEAD THAT IS CERTIFIED AND PROFICIENT IN EXECUTING, INTERPRETING AND RECORDING "PIM" MEASUREMENTS.

PREPARED FOR:

verizon

PREPARED BY:

TeleCAD
Wireless

1961 NORTHPOINT BLVD, SUITE 130
HIXSON, TN 37343
PH: 423-843-9500
FAX: 423-843-9509

DRAWING NOTICE:
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DRAWN BY:	TMJ
CHECKED BY:	SEH

REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	09/12/25	ZCK	CONSTRUCTION ISSUE
0	09/08/25	JAF	CONSTRUCTION ISSUE
A	08/11/25	TMJ	PRELIMINARY REVIEW



SITE NAME:	24210
ADDRESS:	14838 MACK AVE DETROIT, MI 48215
COUNTY:	WAYNE
LATITUDE:	42° 23' 13.164" N
LONGITUDE:	82° 56' 51.396" W
DESIGN TYPE:	RAWLAND

SHEET TITLE:
GENERAL NOTES

DRAWING NO.	REVISION:
GN1	1

NOTES:

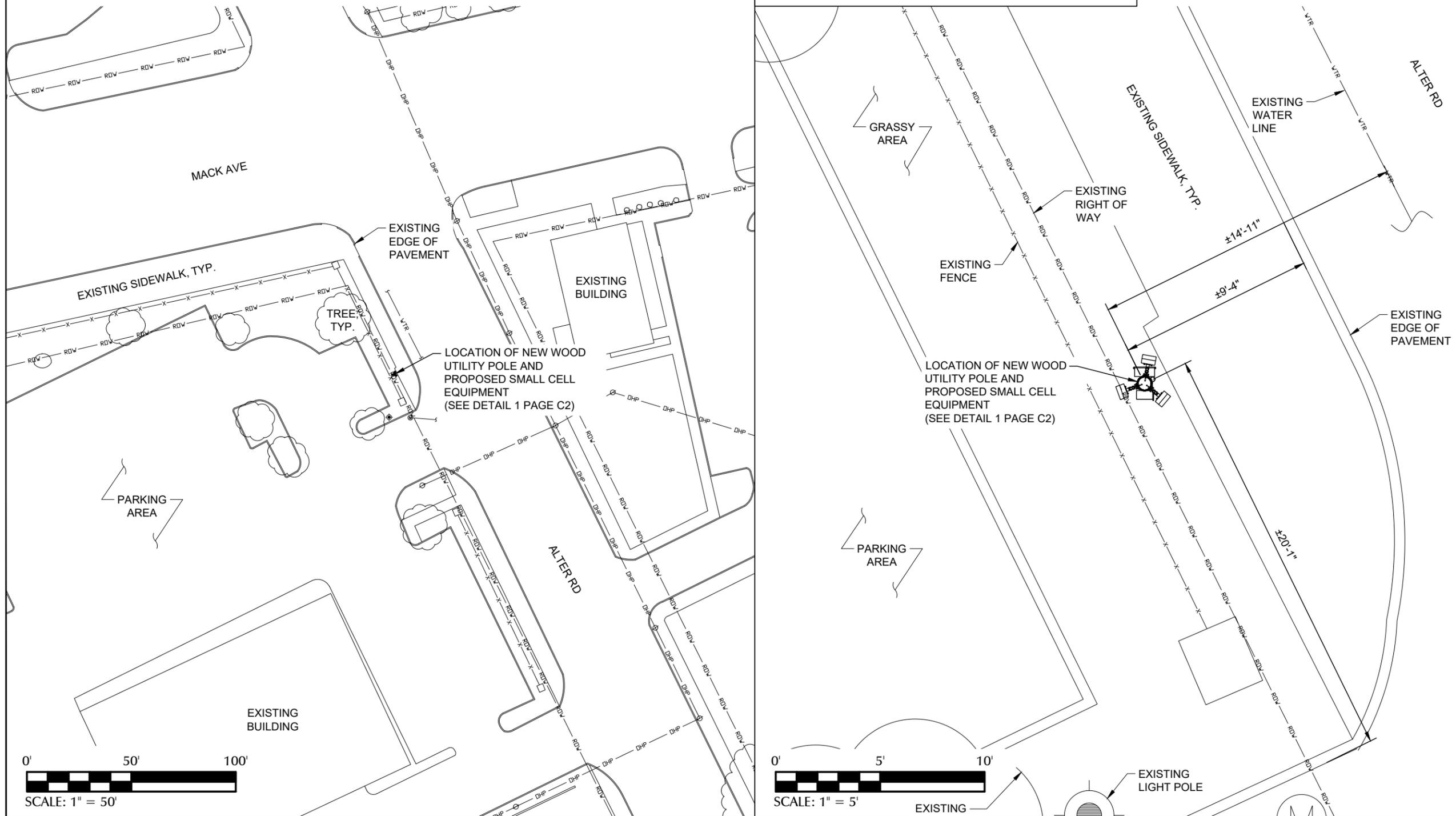
1. THIS DRAWING IS BASED ON AERIAL IMAGERY AND FIELD OBSERVATIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. THE PROPOSED USE DOES NOT REQUIRE FULL OR PART TIME EMPLOYEES AT THE SITE.
3. FOR GENERAL SITE WORK NOTES, SEE SHEET GN1.
4. ALL NORTH ARROWS ON SITE PLANS ARE TRUE NORTH, UNLESS OTHERWISE SPECIFIED.
5. CONSTRUCTION UNDER EXISTING PAVEMENTS WILL BE REQUIRED TO BE INSTALLED WITH DIRECTIONAL BORING TECHNIQUE. NO OPEN CUT CONSTRUCTION THROUGH EXISTING PAVEMENT, I.E. ROADWAYS, PARKING AREAS, SIDEWALKS WILL BE ALLOWED.
6. RIGHT OF WAY INFORMATION ACQUIRED FROM GIS.

LEGEND

OVERHEAD UTILITIES	— DHU —	CATCH BASIN	⊞
UNDERGROUND POWER	— UGP —	STREET SIGN	—
OVERHEAD POWER	— DHP — DHP —	4 WAY STREET SIGN	+
UNDERGROUND TELCO	— UGT —	UTILITY POLE	⊙
OVERHEAD TELCO	— DHT —	LIGHT POLE	⊙
GAS LINE	— GAS — GAS —	WATER VALVE	⊗
FENCE	- x - x - x - x - x -	MANHOLE	⊕
WOOD FENCE	- o - o - o - o - o -	GAS VALVE	⊗
SEWER LINE	— SWR — SWR —	FIRE HYDRANT	⊕
WATER LINE	— WTR —	TELCO PEDESTAL	⊞
HYBRID CABLE	— HYB —	ELECTRICAL BOX	⊞
HIGH VOLTAGE POWER	— HVP —		
FIBER	— FBR —		
RIGHT-OF-WAY	— RDW — RDW —		
PROPERTY LINE	— PL — PL —		

UTILITY NOTE:

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES HAVE NOT BEEN VERIFIED. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.



PREPARED FOR:



PREPARED BY:



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NOT VALID WITHOUT P.E. STAMP & SIGNATURE

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SHEET TITLE:
SITE LAYOUTS

DRAWING NO.	REVISION:
C1	1



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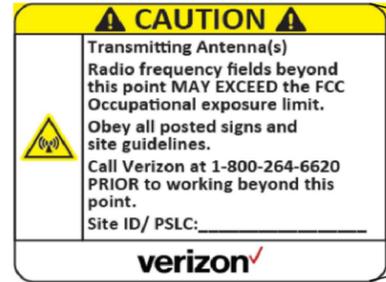
SHEET TITLE:
 SITE LAYOUT -
 AERIAL IMAGERY

DRAWING NO. C1A
 REVISION: 1

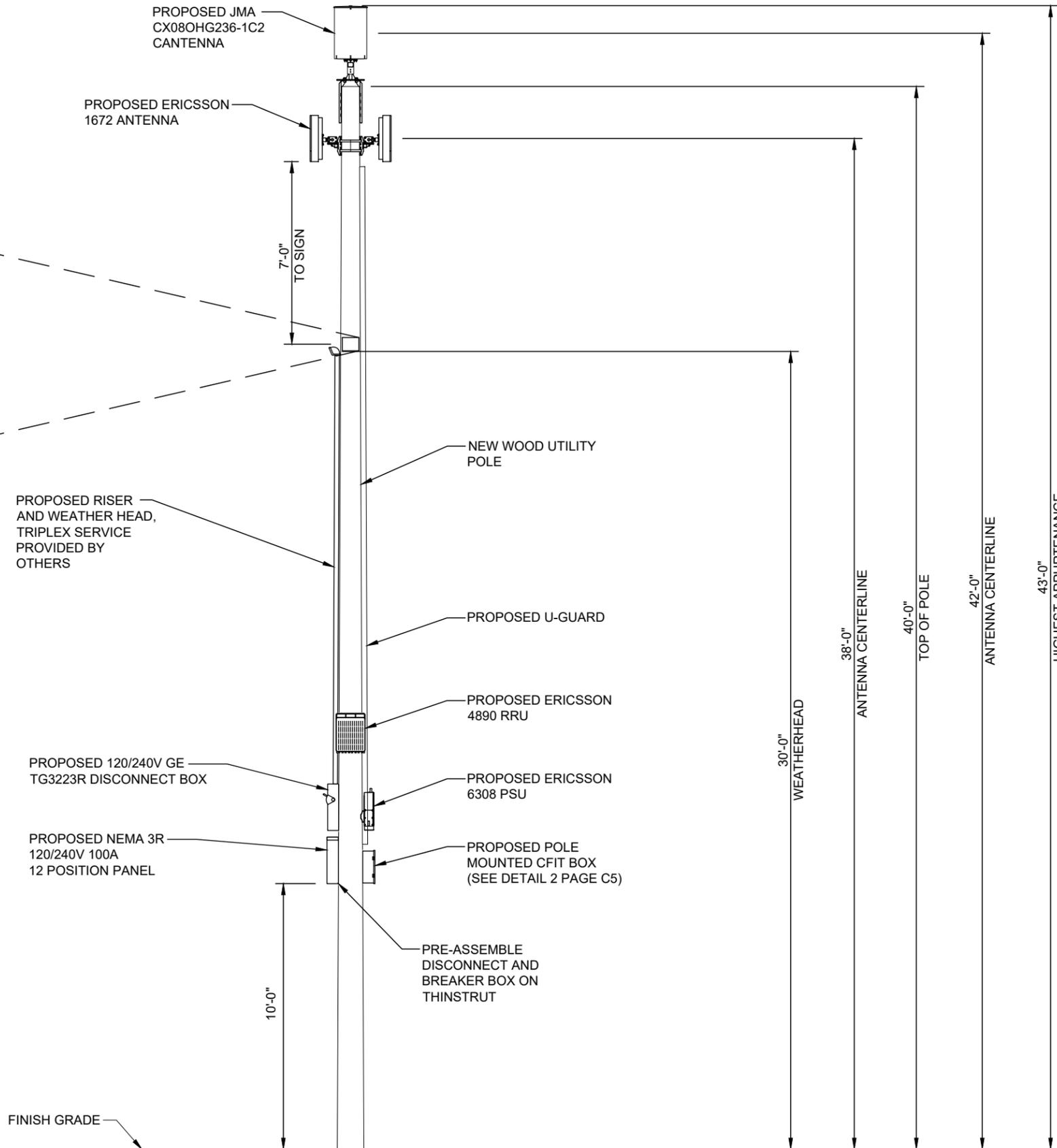
CONTRACTOR TO OBTAIN LATEST RFDS FROM VERIZON PRIOR TO CONSTRUCTION.

40" MIN. CLEARANCE BELOW NEW TRIPLEX SERVICE

REFER TO RFDS FOR SMALL CELL AZIMUTHS



6"x7.5" RF CAUTION SIGN TYPICAL OF 2



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 DESIGN TYPE: RAWLAND

SHEET TITLE: POLE ELEVATION

DRAWING NO. C2 REVISION: 1



SITE DESIGNATION: 24210
 INSTALL ON BREAKER PANEL

PREPARED FOR:



PREPARED BY:



1961 NORTHPOINT BLVD, SUITE 130
HIKSON, TN 37343
PH: 423-843-9500
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DESIGN TYPE: RAWLAND

SHEET TITLE: SITE DETAILS

DRAWING NO. C3
REVISION: 1

POLE ATTACHED EQUIPMENT	
EQUIPMENT	VOLUME (CU-FT)
JMA CX08OHG236-1C2	2.44
1672 ANTENNA	0.52
1672 ANTENNA	0.52
1672 ANTENNA	0.52
TOTAL IN CU-FT	4.00

POLE ANCILLARY EQUIPMENT	
EQUIPMENT	VOLUME (CU-FT)
12 POSITION PANEL	0.80
DISCONNECT	0.57
CFIT BOX	0.60
ERICSSON 4890 RRU	1.06
ERICSSON 6308 PSU	0.63
TOTAL IN CU-FT	3.66

JMA
CX08OHG236-1Cx
 NWATM Cylinder Antenna

8-port cylinder antenna 1695-2690 MHz

- High gain, high efficiency cylinder antenna to compliment 16T16R C-Band radios
- Eliminates the need to combine AWS/PCS
- 4T4R (or) 4T8R MIMO-capable
- Symmetrical pattern performance across all ports
- Excellent cross-polar discrimination for superior MIMO performance
- Array architecture optimized to provide maximum gain for 1695-2200 MHz



Electrical specification (min/max)	Ports 1, 2, 3, 4, 5, 6, 7, 8			
	1695-1880	1850-1990	1920-2200	2300-2690
Frequency bands, MHz	1695-1880	1850-1990	1920-2200	2300-2690
Polarization	± 45°			
Gain, dBi (max)	10.9	11.5	12.7	12.5
Gain, dBi (average)	10.4 ± 0.5	11.1 ± 0.4	12.2 ± 0.5	12.1 ± 0.4
Horizontal beamwidth (HBW), degrees ¹	360°			
Vertical beamwidth (VBW), degrees ¹	14.5	13.5	12.0	11.1
Cross-polar discrimination over 360° ¹	18.0	19.0	19.0	18.0
Electrical downtilt (EDT), degrees	2° or 5° or 8°			
Cross-polar isolation, dB ¹	25			
Max VSWR / return loss, dB	1.5:1 / -14.0			
Max PIM, 3rd order 2x20W carrier, dBc	-153			
Maximum input power port, watts	125			

¹ Typical value over frequency and tilt.

JMA **CX08OHG236-1Cx**
 NWATM Cylinder Antenna

Mechanical specifications	
Dimensions height/diameter, inches (mm)	24.0' 14.6 (609.6/ 370.8)
Antenna volume (cubic feet)	2.91
No. of RF input ports, connector type, and location	8 x 4.3-10 female, bottom
RF connector torque	96 lbf-in (10.85 N-m or 8 lbf-ft)
Net antenna weight, lb (kg)	21 (9.53)
Rated wind survival speed, mph (km/h)	150 (241)
Frontal wind loading @ 160 km/h, lbf (N)	47.6 (211)

Front view	End view
	<p>The 0 degree reference arrow corresponds to the 0 degree position in the antenna pattern file. Each antenna pattern file uses a top down orientation view (the patterns are viewed from the top of the antenna looking down).</p> <p>End view details: 6 stud bolts for direct mount to the Universal Sleeve (SC-BKT-SLA)</p>

Ordering information	
Antenna model	Description
CX08OHG236-1Cx (x represents the fixed down tilt value per 8 ports for 1695-2690 MHz)	2R 8 Port OMNI antenna 8MB x= 2, 5, or 8 deg FET per 8 ports (Y1, Y2, Y3, Y4) (1695-2690 MHz) value

PREPARED FOR:



PREPARED BY:



1961 NORTHPOINT BLVD, SUITE 130
 HIXSON, TN 37343
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COUNTY:	WAYNE
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LONGITUDE:	82° 56' 51.396" W
DESIGN TYPE:	RAWLAND

SHEET TITLE:
SITE DETAILS

DRAWING NO.	REVISION:
C4	1

AIR 1672 – AAS Street Product Dual Band - CBRS + B77

TRX Branches	16T16R
Antenna Elements	48
Antenna configuration	(3x1)x(2x4)
Operation band	3550 ~3980 MHz, CBRS+B77
IBW	350 MHz
Occupied BW (TCBW)	Up to 200 MHz with 8/4 DL/UL layers
EIRP	68 dBm in peak on band 37dBm/MHz/layer on CBRS*
Total Output Power (TRP)	80 W
Supported RAT	NR only



AIR 1672 (n48/B77)	Height	Width	Depth	Weight
w/ protruding items	22.1 In (560 mm)	8.1 In (204 mm)	6.0 In (150 mm)	~33.1 lbs (~15 Kg)

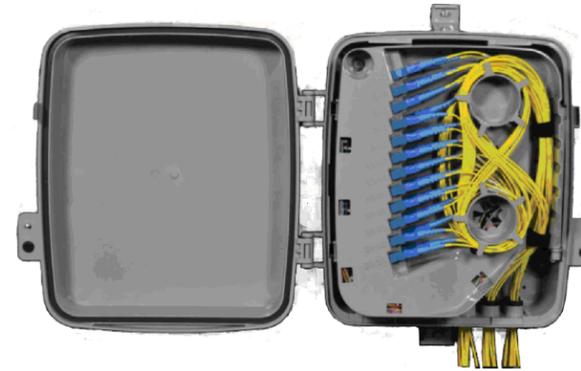
eCPRI link 2*25G
 Operating temperature 40 to +55°C, with natural convection cooling
 Power Supply AC
 Power Consumption @full load Tentative 460W (100% traffic, 75% DL & 25% UL TDD)
 Ext.alarm support NA

**Now confirmed
max measurements/ will not exceed**

*Per the current FCC rules. The 80W Rf Power can be shared between both bands according to FCC rules.

CFIT BOX

PART CODE: CFIT-C48D4LHXVZ
DESIGNED BY CHARLES INDUSTRIES



PRODUCT SPECIFICATIONS

TECHNICAL SPECIFICATIONS	
HEIGHT (PANEL ONLY)	15 in.
DEPTH, BASE (FRONT TO BACK)	5.5 in.
WIDTH	12 in.
WEIGHT	4 lbs.
CONSTRUCTION	RUGGED UL94-5VA GRAY POLYCARBONATE
SUPPORTED FIBER CONNECTOR TYPES	SC, LC or MPO
COMPLIANCE	DESIGNED TO MEET GR-950, GR2898, NEMA 4, IP66
SPLICING CAPACITY	UP TO THREE (3) 4"x6" HINGED SPLICE TRAYS ON FEED FIBER SIDE.
BULKHEAD CAPACITY	24 SC ADAPTERS

PREPARED FOR:



PREPARED BY:



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1 ERICSSON 1672 ANTENNA

N.T.S.

2 CFIT BOX

N.T.S.

Radio 4890HP 48B2 48B66 S

- 8 RF ports, 4T8R per band (S for TX)
- B2: 4x60W, B66: 4x60W
- Up to 480W in total RF power
- L, NR, NB-IoT
- 2x 2.5/4.9/9.8/10.1/24.3 Gbps CPRI/eCPRI

Radio 4890HP 48B2 48B66 S	Height	Width	Depth	Weight
w/ protruding items	17.5 In (444 mm)	15.2 In (384 mm)	7.0 In (176 mm)	~69.5 lbs (~31.5 Kg)
w protruding items	20.6 In (522 mm)	15.7 In (397 mm)	7.2 In (182 mm)	



B2/B25 TX: 4 ports
 B66 TX: 4 ports
 B2/B25 & B66 RX: 8 ports

Same order as Radio 8843

**Now confirmed
max measurements/ will not exceed**

- 48 VDC 2-wire (single DC-connector),
- AISG v3.0 TMA & RET support via RS-485 or RF connectors
- Type 4.3-10 RF + connectors
- 2 external alarm
- Convectional cooling
- Optional fan for increased site flexibility
- Power consumption with 100% Load @ 25C
 - Output Power 480W: 1370W
 - Output Power 320W: 970W
- IP 65, -40 to +55°C

3.1 Technical Data Summary

Figure 1 shows the dimensions of the unit, and Table 1 gives a summary of the technical data.

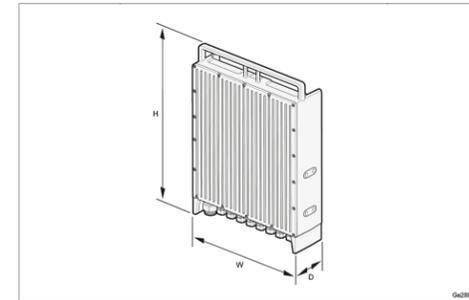


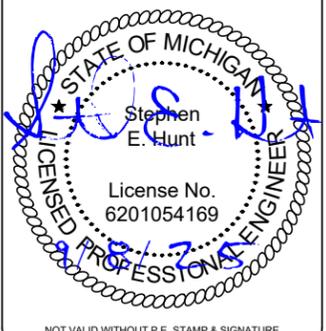
Figure 1 Unit Dimensions

Table 1 Technical Data

Description	Value
Power input	100-127 V AC or 200-240 V AC (Line-Neutral or Line-Line) ⁽¹⁾
Total power output at 100-127 V AC	3500 W peak 3000 W average ⁽²⁾
Total power output at 200-240 V AC	6000 W
Maximum current on one output port	50 A
Maximum power on one output port	2000 W
Dimensions	Value
Height	477 mm
Width	343 mm
Depth	110 mm
Weight	Value
Power 6300	14 kg
Color	Value
Gray	NCS S1002-B

⁽¹⁾ When connecting Line-Line, the N/L connector pin is not allowed to be connected to the High Leg Delta.
⁽²⁾ The total output power is divided across seven output ports.

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ADDRESS:
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DETROIT, MI 48215

COUNTY: WAYNE

LATITUDE: 42° 23' 13.164" N

LONGITUDE: 82° 56' 51.396" W

DESIGN TYPE: RAWLAND

SHEET TITLE: EQUIPMENT DETAILS

DRAWING NO. REVISION:

C5

1

3 ERICSSON 4890 RRU

N.T.S.

4 ERICSSON 6308 PSU

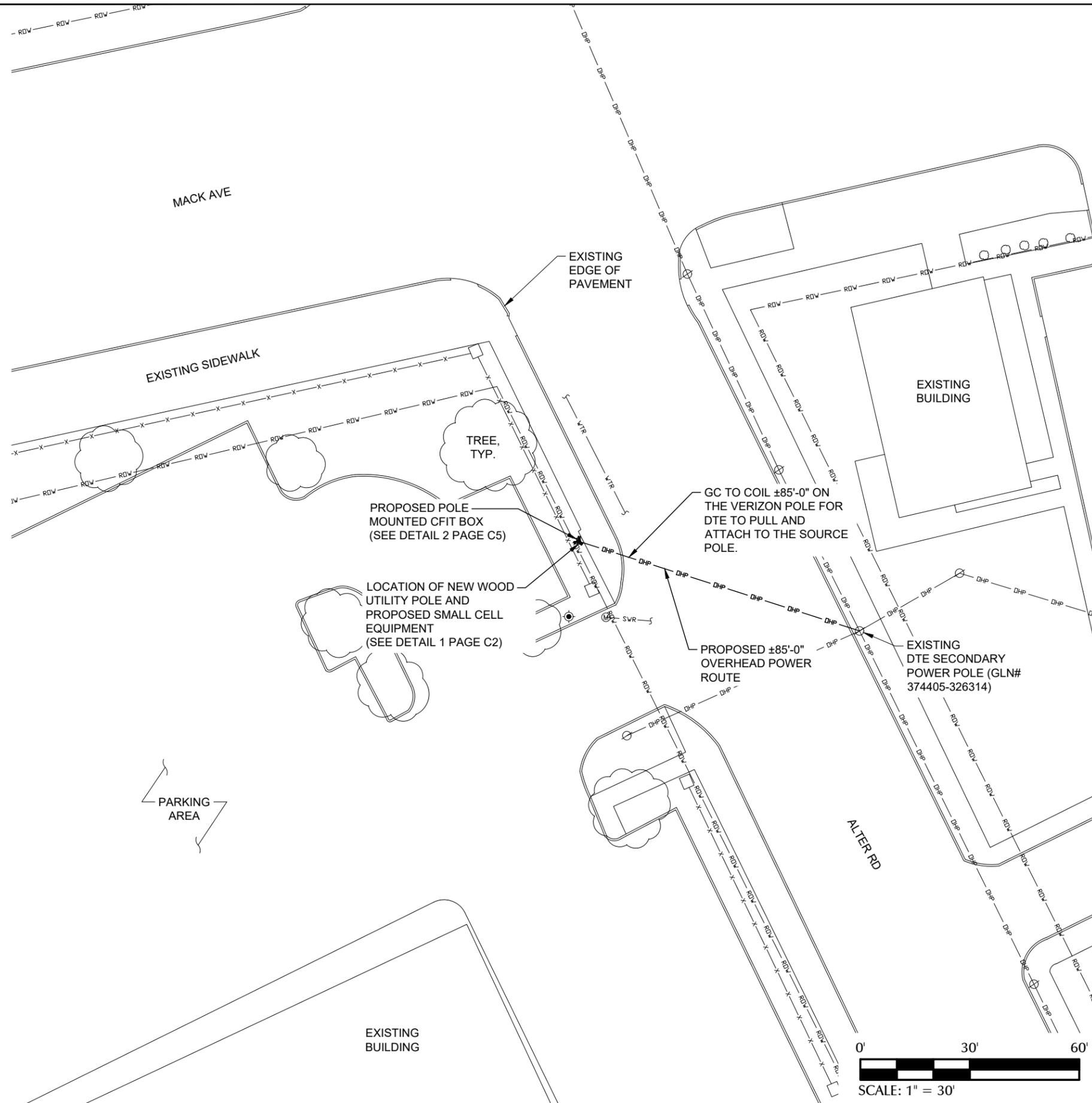
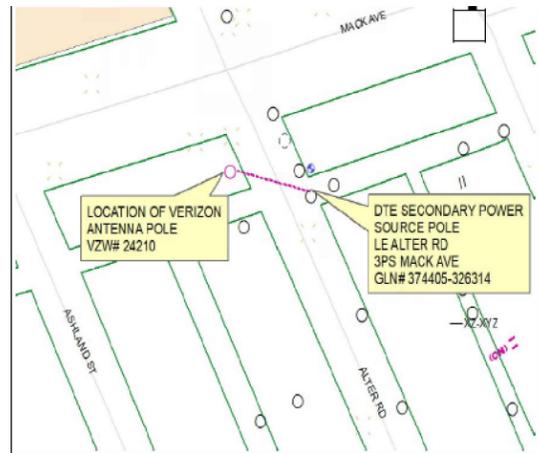
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ELECTRICAL NOTES:

1. PROVIDE AND INSTALL WARNING TAPE FOR ELECTRIC SERVICE CONDUIT 18" ABOVE CONDUITS.
2. CONTRACTOR TO PAY FOR THE SERVICE AS DIRECTED BY THE MUNICIPALITY.
3. CONTRACTOR TO USE PVC SCH 80 CONDUIT WHERE CONDUITS CROSS ACCESS ROADS.
4. CONTRACTOR SHALL COORDINATE WITH ELECTRIC COMPANY FOR SERVICES.
5. CONTRACTOR TO PAY ALL FEES FOR SERVICES REQUIRED.
6. CONTRACTOR TO BE ADVISED THAT EXISTING UNDERGROUND CONDUITS, GROUND CABLES EXIST. DIG WITH CAUTION.
7. CONTRACTOR TO VERIFY POWER AND TELCO LB LOCATIONS AND FLEX CONDUIT SIZE AND ROUTING TO THE EQUIPMENT WITH MANUFACTURER'S DRAWINGS.
8. CONSTRUCTION UNDER EXISTING PAVEMENTS WILL BE REQUIRED TO BE INSTALLED WITH DIRECTIONAL BORING TECHNIQUE. NO OPEN CUT CONSTRUCTION THROUGH EXISTING PAVEMENT, I.E. ROADWAYS, PARKING AREAS, SIDEWALKS WILL BE ALLOWED.

UTILITY NOTES:

1. ALL POWER CONDUITS ABOVE GRADE, SWEEPS, & ELBOWS TO BE PVC SCH 40.



LEGEND

OVERHEAD UTILITIES	— DHU —	CATCH BASIN	▣
UNDERGROUND POWER	— UGP —	STREET SIGN	—
OVERHEAD POWER	— DHP — DHP —	4 WAY STREET SIGN	+
UNDERGROUND TELCO	— UGT —	UTILITY POLE	○
OVERHEAD TELCO	— DHT —	LIGHT POLE	⊙
GAS LINE	— GAS — GAS —	WATER VALVE	⊗
FENCE	— x — x — x — x — x —	MANHOLE	⊙
WOOD FENCE	— o — o — o — o — o —	GAS VALVE	⊗
SEWER LINE	— SWR — SWR —	FIRE HYDRANT	⊙
WATER LINE	— WTR —	TELCO PEDESTAL	⊥
HYBRID CABLE	— HYB —	ELECTRICAL BOX	⊥
HIGH VOLTAGE POWER	— HVP —		
FIBER	— FBR —		
RIGHT-OF-WAY	— RDW — RDW —		
PROPERTY LINE	— PL — PL —		

PREPARED FOR:

PREPARED BY:

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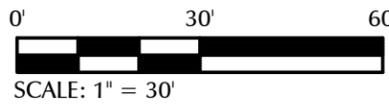
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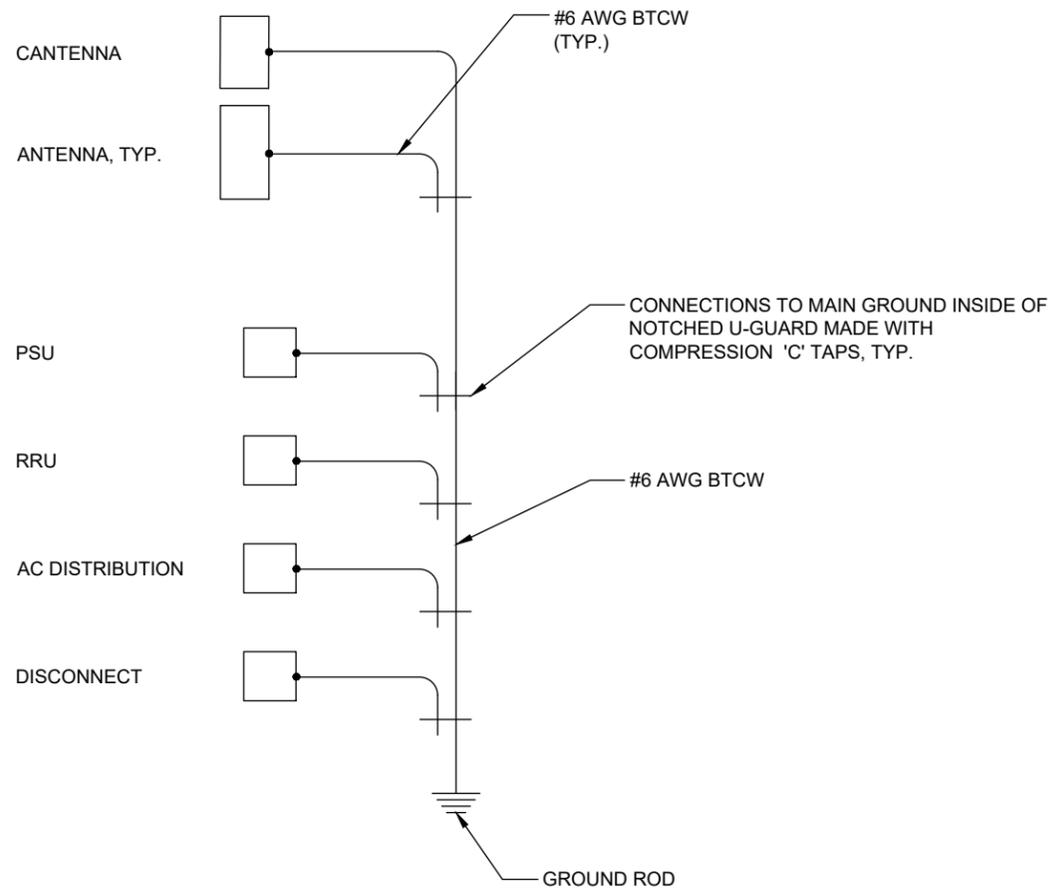
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LONGITUDE:	82° 56' 51.396" W
DESIGN TYPE:	RAWLAND

SHEET TITLE:
UTILITY SITE PLAN

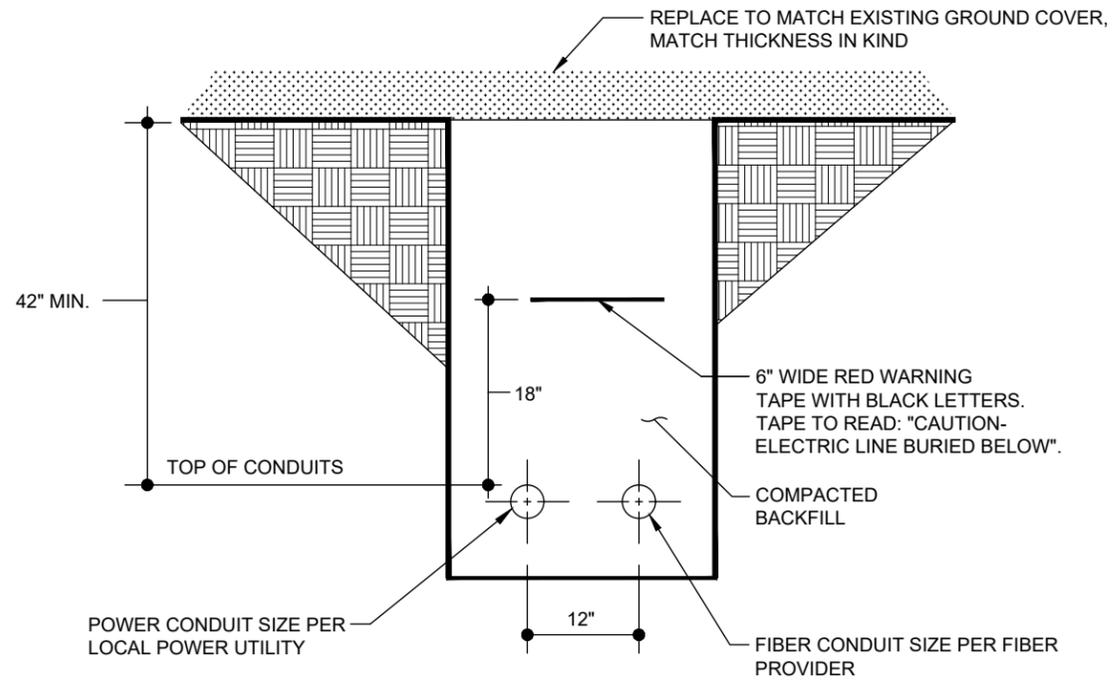
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E1	1





1 SINGLE POINT RADIAL GROUND DETAIL

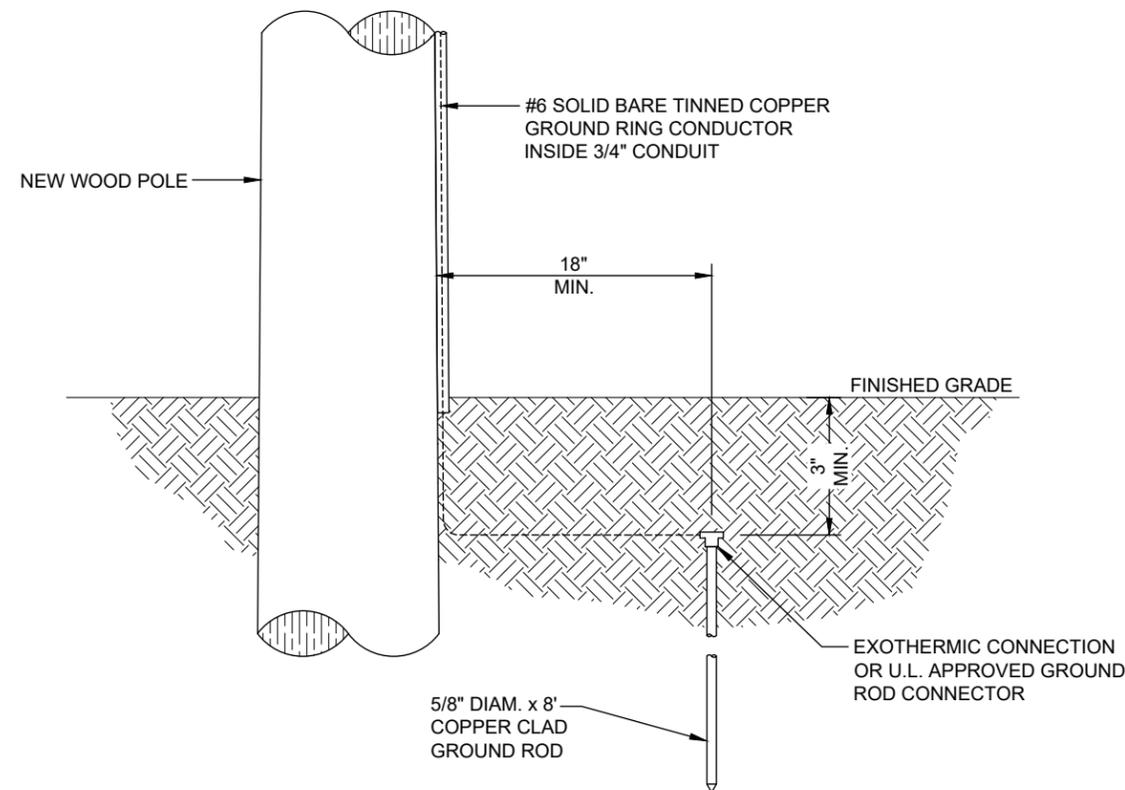
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NOTE: TYPICAL SPACING FOR ALL UNDERGROUND CONDUITS.

2 TRENCH DETAIL (IF REQUIRED)

N.T.S.



3 GROUND ROD DETAIL

N.T.S.

4 DETAIL NOT IN USE

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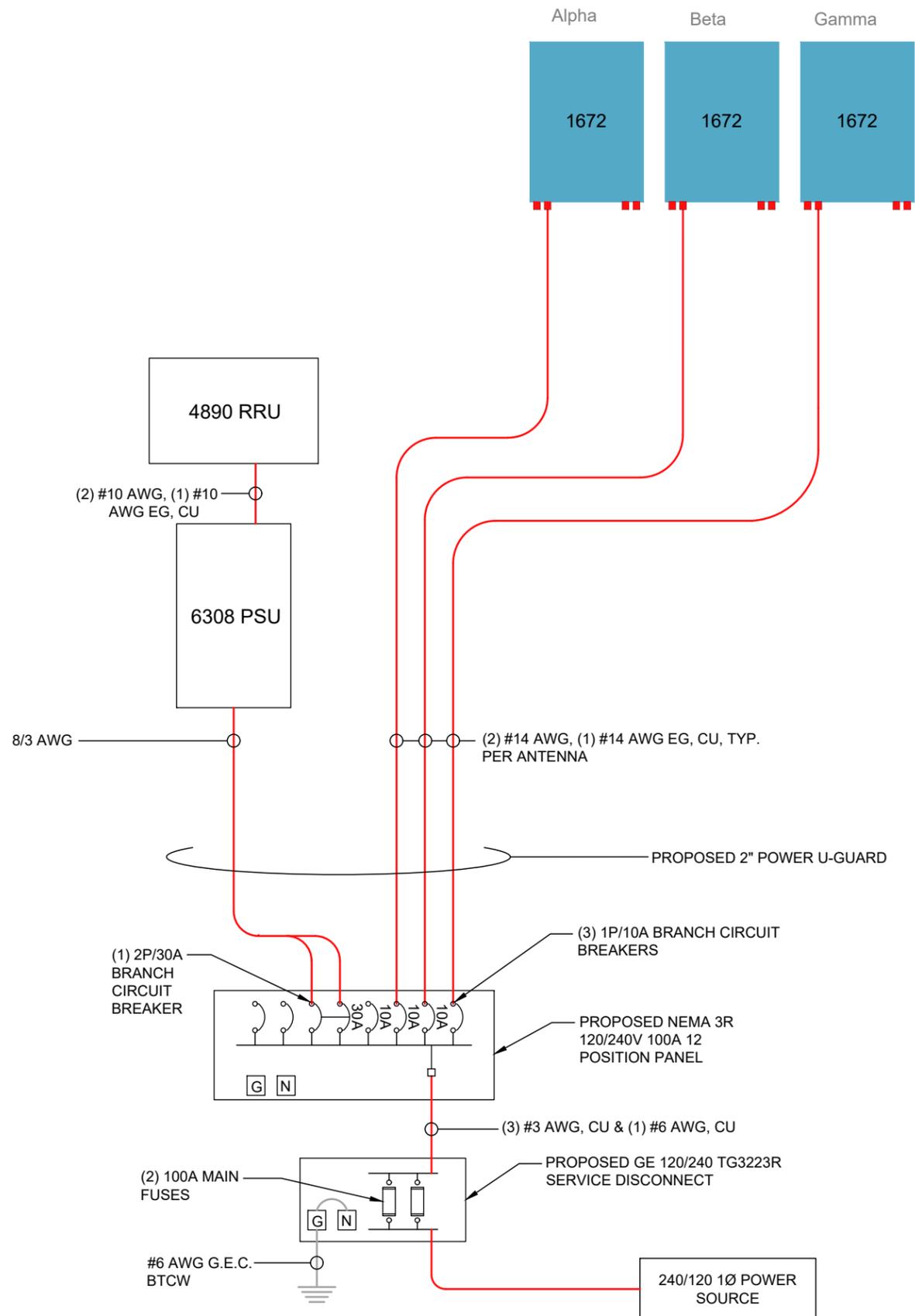
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SHEET TITLE:
ELECTRICAL DETAILS

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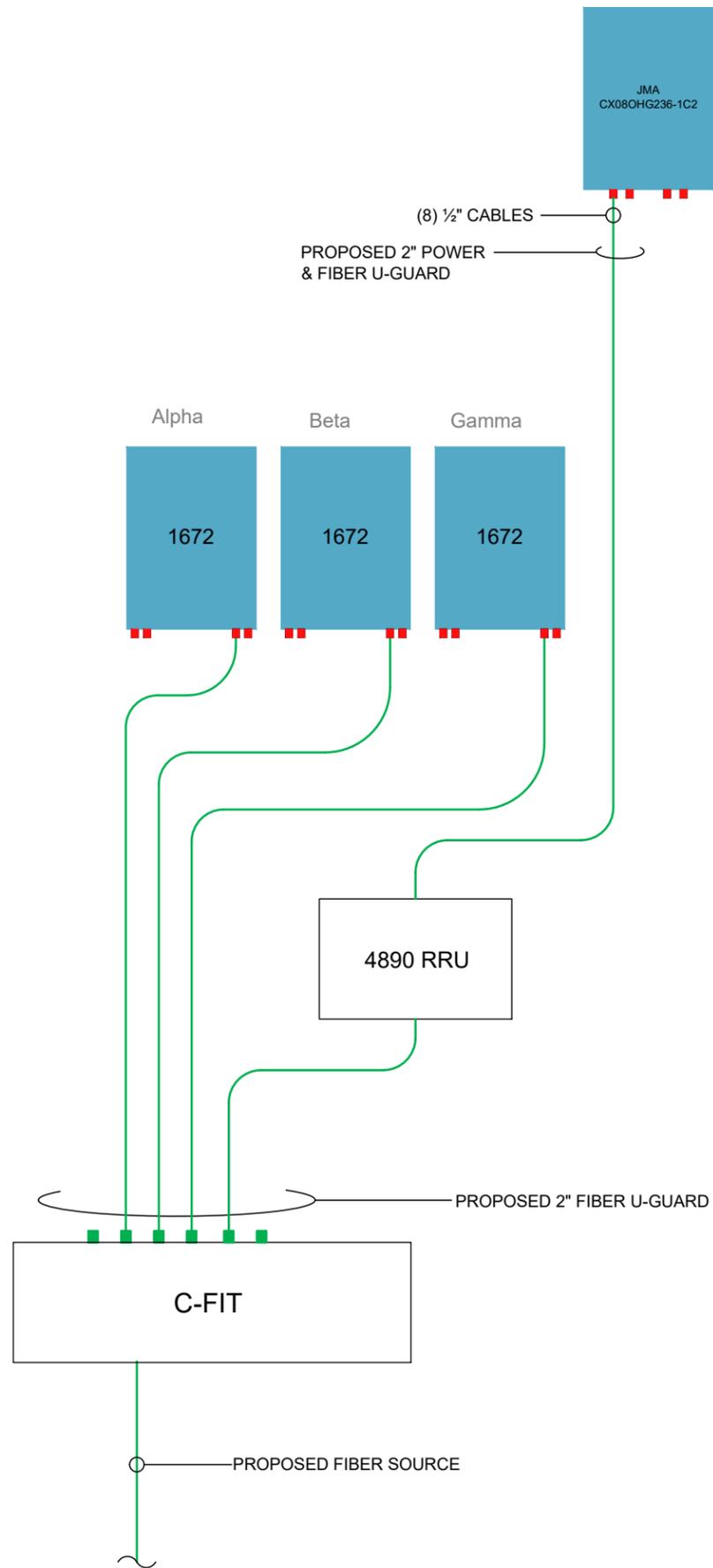
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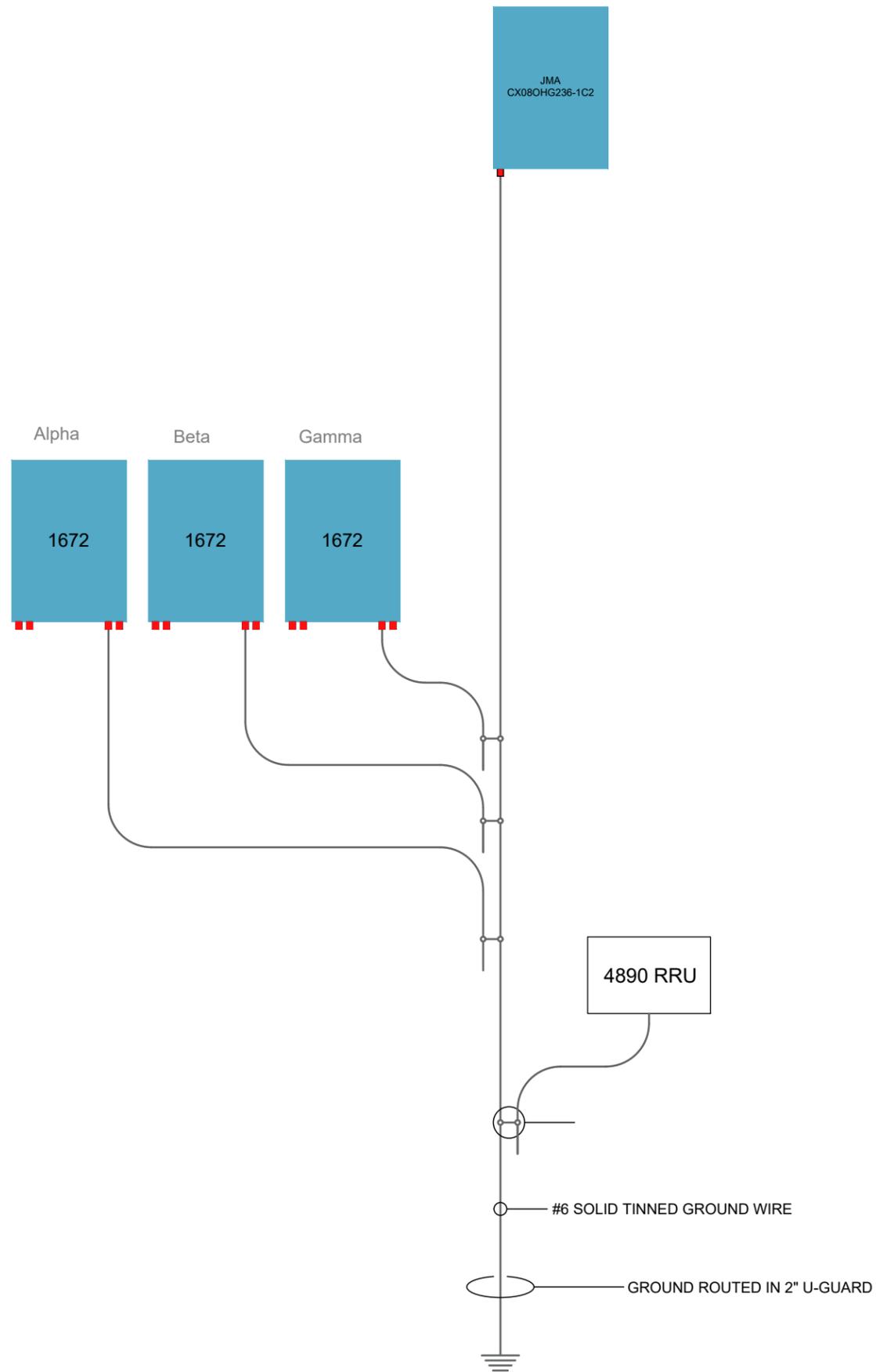
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SHEET TITLE:
SINGLE LINE DIAGRAM

DRAWING NO. **E3** REVISION: **1**



1 ELECTRICAL DIAGRAM - FIBER ROUTE



2 ELECTRICAL DIAGRAM - GROUND ROUTE

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