



Central Services Facility

313-267-8000 • detroitmi.gov/DWSD

Date:

- ☐ Outright Vacation
- ☐ Conversion to Easement

- ☐ Dedication
- ☐ Encroachment

☐ Berm Use

☐ Temporary Closing

☐ Approved Subject to Attached Provisions

☐ Not Approved

☐ Revise and Resubmit

--

	Name	Title	Signature	Date
Reviewed by:			<i>Mohammad Siddique</i>	
Approved by:			<i>Mohammad Siddique</i> For Syed Ali	

PROVISIONS FOR ENCROACHMENT

1. By approval of this petition the Detroit Water and Sewerage Department (DWSD) does not waive any of its rights to its facilities located in the right of way, and at all time, DWSD, its agents or employees, shall have the right to enter upon the right of way to maintain, repair, alter, service, inspect, or install its facilities. All costs incident to the damaging, dismantling, demolishing, removal and replacement of structures or other improvements herein permitted and incurred in gaining access to DWSD's facilities for maintenance, repairing, alteration, servicing, or inspection by DWSD shall be borne by the petitioner. All costs associated with gaining access to DWSD's facilities, which could normally be expected had the petitioner not encroached into the right of way shall be borne by DWSD.
2. All construction performed under this petition shall not be commenced until after five (5) days written notice to DWSD. Seventy-two (72) hour notice shall also be provided in accordance with P.A. 53 1974, as amended, utilizing the MISS DIG one call system.
3. Construction under this petition is subject to inspection and approval by DWSD. The cost of such inspection shall, at the discretion of DWSD, be borne by the petitioner.
4. DWSD prohibits the use of heavy construction equipment or the storage of building material directly over or near DWSD facilities. DWSD also prohibits the use of cranes and balls or hydraulic rams for pavement removal where DWSD facilities are involved. If the water main or sewer facilities are broken or damaged as a result of any action on the part of the contractor, the contractor shall be liable for all costs incidental to the repair of such broken or damaged water main or sewer facilities. If DWSD facilities located within the street shall break or be damaged as the result of any action on the part of the petitioner, then in such event the petitioner agrees to be liable for all costs incident to the repair, replacement or relocation of such broken or damaged DWSD facilities.
5. The petitioner shall hold DWSD harmless for any damage to the encroaching device constructed or installed under this petition, which may be caused by the failure of DWSD's facilities.
6. If at any time in the future the petitioner shall request removal and / or relocation of DWSD's facilities in the street being encroached upon, the petitioner agrees to pay all costs for such removal and/or relocation.
7. Prior to construction, Easement Encroachment Permit (EEP) should be obtained and the insurance required by the EEP should not expire until after completion of the construction.
8. For any proposed work that involves DWSD water mains and/or sewers, an approval and a permit is required from DWSD before commencement of work.
9. It is DWSD's requirement that any proposed utility crossing DWSD water mains and/or sewers perpendicularly must maintain a minimum of 18 inches vertical clearance. Any proposed utility running adjacent to DWSD water mains and/or sewers must maintain a minimum of 10 feet lateral clearance including any conduit and/or manholes walls. No utility is allowed to run along the top of the water main and/or sewer.
10. It is DWSD's requirement that no encroachment has a vertical clearance of less than 16 feet from the ground surface over DWSD water mains and/or sewers.

Telecad Wireless Site Design
1961 Northpoint Blvd., Ste. 130
Hixson, TN 37343
423-843-9500

03-13-2025

RE: Description and Proposal for Encroachment at 5207 Tireman St. (ENG-24-1617) (MAP-25-20)

To Whom It May Concern,

This letter is to notify you that Verizon Wireless is proposing to install 2 new bollards in the right-of-way. Thank you for your cooperation in this matter.

Thank you,

Penny Cox – Agent on behalf of Verizon Wireless

5207 Tireman St.



3/24/2025, 12:41:00 PM

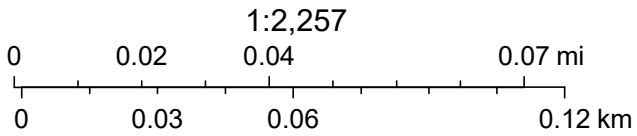
Wastewater GravityMain

- Active
- DWSD Wastewater Flow Direction
- Wastewater Lamp Hole

Wastewater Fitting

- Bend/Slope Change
- Blind Connection
- Material/Size Change

- Crown/Main Point
- Wastewater Manhole
- Wastewater Catch Basin


















Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, Maxar

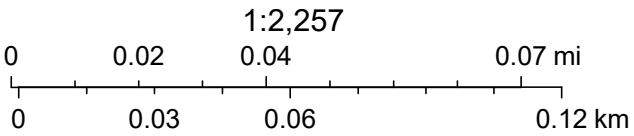
5207 Tireman St.



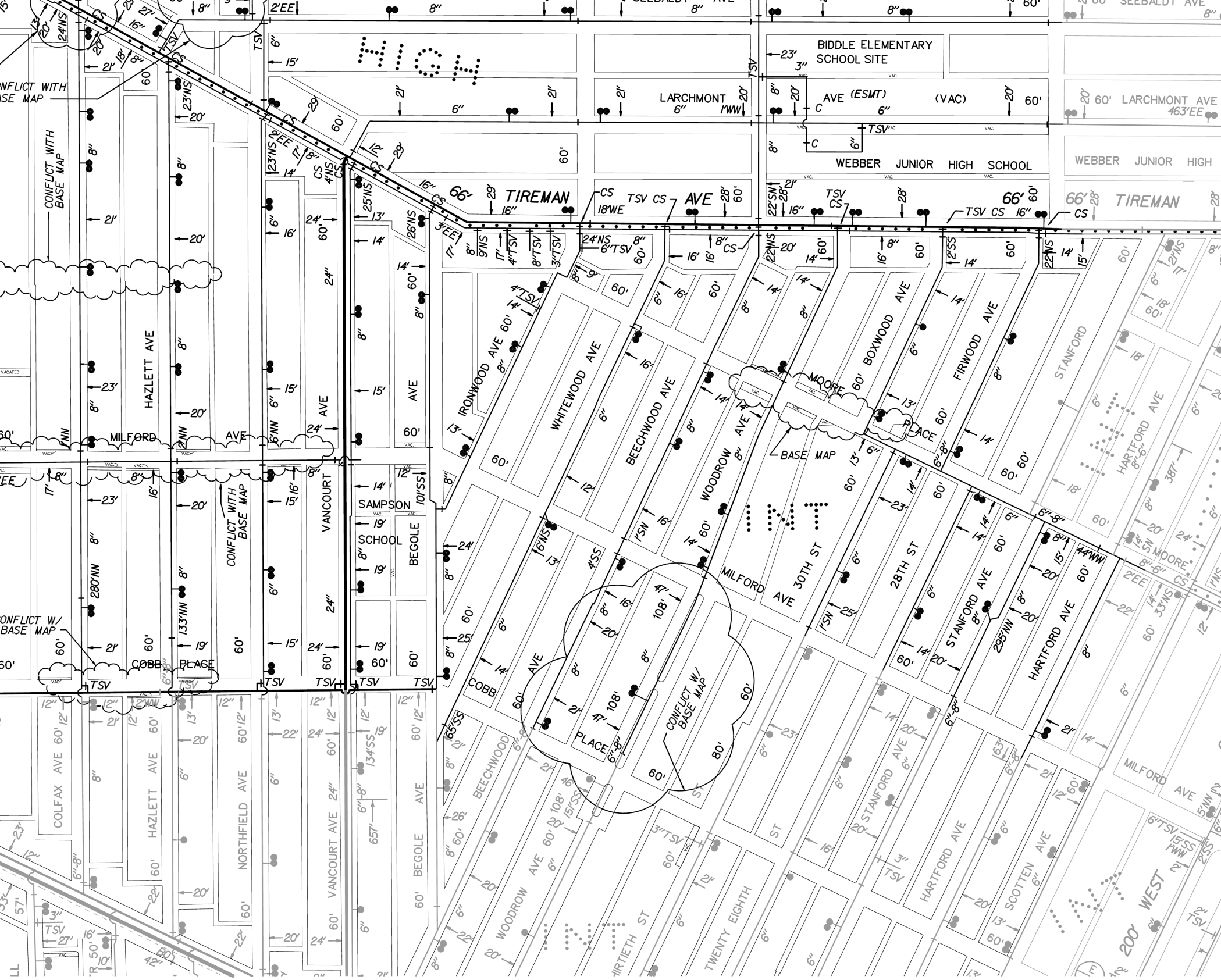
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Transmission System Valves - GLWA Distribution System Main

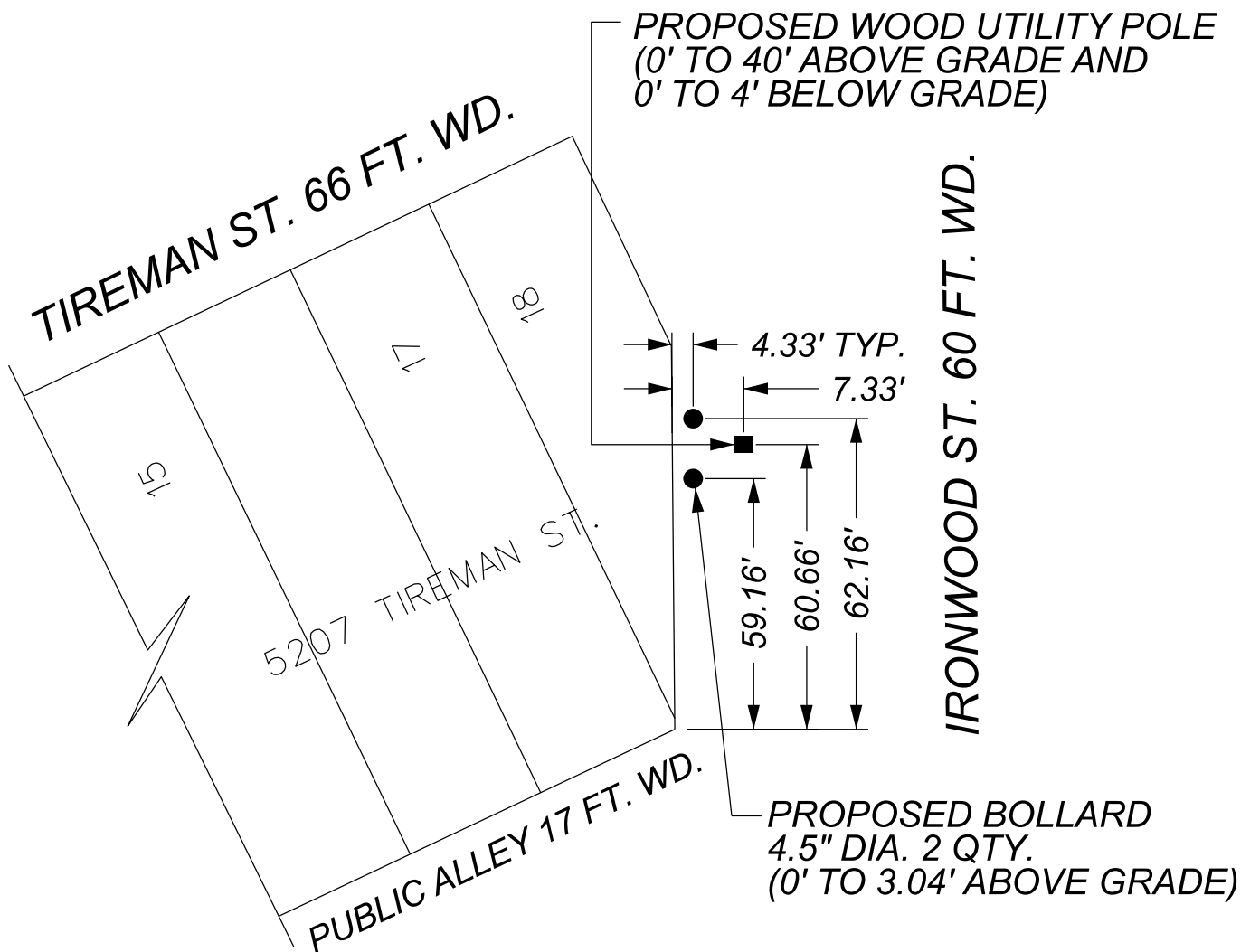
- | | | | |
|--|---|--|---|
|  Gate |  Active |  Coupling |  TSV |
|  Transmission System Mains - GLWA |  Distribution System Fitting |  Tee |  Hydrant |
|  Active Water Main |  Bend |  Distribution System Valve |  Distribution System Hydrant |
| |  Cross |  Gate |  DWSD |



DWSD, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, Maxar







NOTE:

PROPOSED BOLLARD HAS A
4 HOLE WEDGE ANCHOR BOLT
STEEL BASEPLATE, 2 QTY.
(0' TO 0.5' BELOW GRADE)
PROPOSED WOOD UTILITY POLE
HAS A 5/8" DIA. COPPER GROUND ROD
(0.25' TO 8' BELOW GRADE)



- REQUEST ENCROACHMENT
(For Wood Utility Pole)



- REQUEST ENCROACHMENT
(For Proposed Bollard)

(FOR OFFICE USE ONLY)

CARTO 14-15 F

B					
A					
DESCRIPTION	DRWN	CHKD	APPD	DATE	
REVISIONS					
DRAWN BY	AP	CHECKED	LC / TS		
DATE	03-13-2025	APPROVED	GE		

**REQUEST ENCROACHMENT
INTO IRONWOOD ST.
AT 5207 TIREMAN ST.**

CITY OF DETROIT
CITY ENGINEERING DIVISION
SURVEY BUREAU

JOB NO. 25-20

DRWG.NO.

PROJECT SUMMARY	
SITE NAME:	24265
SITE ADDRESS: (ESTIMATED)	5207 TIREMAN AVE DETROIT, MI 48204
COUNTY:	WAYNE
JURISDICTION:	CITY OF DETROIT
<u>SITE COORDINATES:</u>	
LATITUDE:	42° 21' 7.164" N
LATITUDE:	42.35199°
LONGITUDE:	83° 7' 16.824" W
LONGITUDE:	-83.12134°
ELEVATION:	±610'-5"
PROPERTY DEFINITION:	R.O.W.
FUZE PROJECT ID:	17119111
MDG LOCATION ID:	5000939279
PROPOSED POLE HEIGHT:	40'-0"
PROPOSED POLE CLASS:	TBD

verizon

SITE NAME: 24265

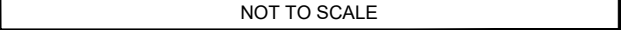
PROPOSED SMALL CELL EQUIPMENT
ON A NEW VERIZON POLE

VICINITY MAP



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

LOCATION MAP

[illegible]

SCOPE OF WORK

- INSTALLING NEW WOOD UTILITY POLE WITH (2) BOLLARD PROTECTION (CLASS TBD)
- INSTALLING EQUIPMENT
 - (3) ERICSSON 1672 ANTENNAS
 - (1) COMMScope NNV4S4-360S-F2
 - (1) ERICSSON 4890 RRU
 - (1) ERICSSON 6308 PSU
 - CFIT BOX
 - (1) FIBER & (1) POWER CABLE PER ANTENNA
 - DISCONNECT

STATE COUNTY MAP



2

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.
4. ALL SIDEWALK REMOVAL AND REPLACEMENT PREFORMED WITHIN THE ROW SHALL CONFORM TO THE COD STANDARD PLAN C-4462 ([HTTPS://DETROITMI.GOV/DEPARTMENTS/DEPARTMENT-PUBLIC-WORKS/RIGHT-WAY-PERMITS-AND-STANDARDS](https://detroitmi.gov/departments/departments-public-works/right-way-permits-and-standards)).

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:



PREPARED BY:



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

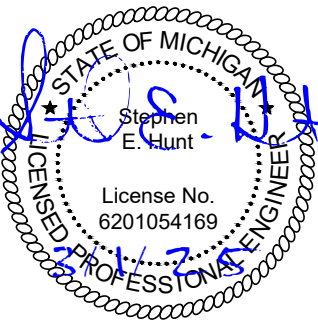
DRAWING NOTICE:

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO THE CLIENT IS STRICTLY PROHIBITED.

DRAWN BY:	JAF
CHECKED BY:	SEH

REVISIONS			
2	03/01/25	ZCK	CONSTRUCTION ISSUE
1	01/17/25	ZCK	CONSTRUCTION ISSUE
0	12/20/24	JAF	CONSTRUCTION ISSUE
A	11/15/24	JAF	PRELIMINARY REVIEW
NO.	DATE	BY	DESCRIPTION

ENGINEER'S STAMP:

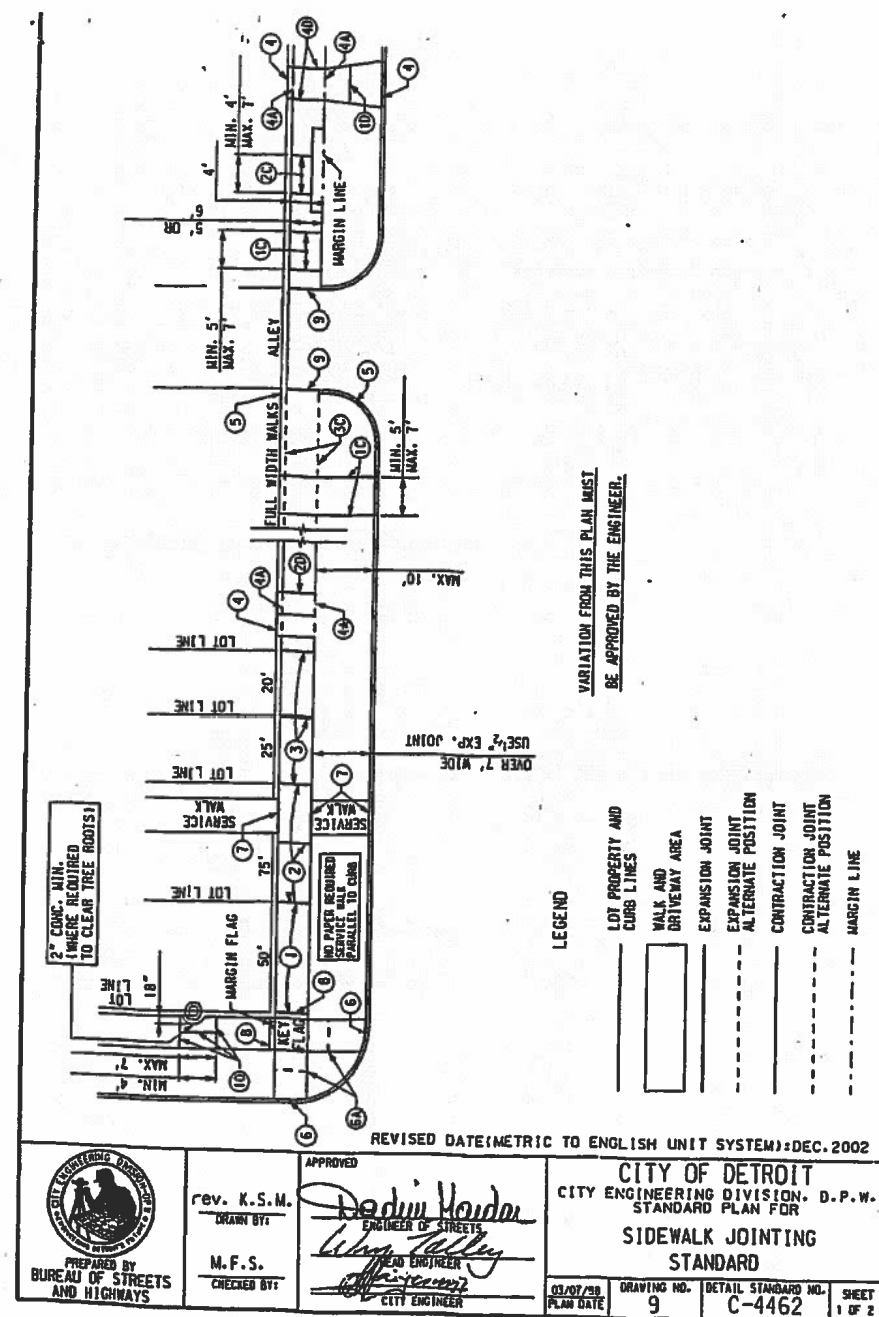


NOT VALID WITHOUT P.E. STAMP & SIGNATURE

SITE NAME:	24265
ADDRESS:	5207 TIREMAN AVE DETROIT, MI 48204
COUNTY:	WAYNE
LATITUDE:	42° 21' 7.164" N
LONGITUDE:	83° 7' 16.824" W
DESIGN TYPE:	RAWLAND

SHEET TITLE:	GENERAL NOTES
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DRAWING NO.	REVISION:
GN1	2



LEGEND

LOT PROPERTY AND CURB LINES	
WALK AND DRIVEWAY AREA	
EXPANSION JOINT	
EXPANSION JOINT ALTERNATE POSITION	
CONTRACTION JOINT	
CONTRACTION JOINT ALTERNATE POSITION	
MARGIN LINE	

REvised DATE (METRIC TO ENGLISH UNIT SYSTEM): DEC. 2002



PREPARED BY
BUREAU OF STREETS
AND HIGHWAYS

rev. K.S.M.

M.F.S.
CHECKED BY:

APPROVED

Bedwin Hardon

ENGINEER OF STREETS
Wm. T. Talley
HEAD ENGINEER

[Signature]
CITY ENGINEER

CITY OF DETROIT
CITY ENGINEERING DIVISION, D.P.W.
STANDARD PLAN FOR
SIDEWALK JOINTING
STANDARD

03/07/98 PLAN DATE	DRAWING NO. 9	DETAIL STANDARD NO. C-4462	SHEET 1 OF 1
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EXPANSION JOINTS

- ① PLACE 1/2" PAPER EXPANSION JOINTS AT LOT LINES WHEN LOT LINES ARE BETWEEN 25' AND 50' APART.
- ② PLACE ADDITIONAL 1/2" PAPER EXPANSION JOINTS SO THAT THE DISTANCE BETWEEN JOINTS DOES NOT EXCEED 15.2 m WHEN LOT LINES ARE OVER 15.240 m APART.
- ③ PLACE 1/2" PAPER EXPANSION JOINTS AT EVERY SECOND LOT LINE AND CONTRACTION JOINT AT INTERVENING LOT LINE WHEN LOT LINES ARE LESS THAN 25' APART.
- ④ PLACE 1" PAPER EXPANSION JOINTS AT CURB AND BUILDING OR PROPERTY LINE OR AT ALTERNATE POSITION (1A) AS SHOWN FOR DRIVEWAY.
- ⑤ PLACE 1" PAPER EXPANSION JOINTS AT CURB AND BUILDING OR PROPERTY LINE FOR FULL WIDTH SIDEWALK EXCEEDING 7' IN WIDTH.
- ⑥ PLACE 1" PAPER EXPANSION JOINTS AT CURB CIRCLES OR AT ALTERNATE POSITION (6A) AS SHOWN.
- ⑦ PLACE 1" PAPER EXPANSION JOINTS AT INTERSECTIONS OF SERVICE WALKS AND SIDEWALKS AND SERVICE WALKS AND CURBS.
- ⑧ PLACE 1" PAPER EXPANSION JOINTS AT MARGIN FLAGS AT CROSSWALKS.
- ⑨ PLACE 1" PAPER EXPANSION JOINTS AT ALLEY APRONS.
- ⑩ PLACE 1/2" PAPER EXPANSION JOINT BOTH SIDES OF SIDEWALK FLAG ABUTTING TREE AND ON CENTERLINE JOINT.

- 1C PLACE CONTRACTION JOINTS AT INTERVALS OF NOT LESS THAN 5' NOR MORE THAN 7' ON WALKS 5' WIDE OR WIDER, INCLUDING FULL WIDTH WALKS.
- 2C PLACE CONTRACTION JOINTS AT INTERVALS OF NOT LESS THAN 4' NOR MORE THAN 7' ON WALKS 4' WIDE.
- 3C PLACE CONTRACTION JOINTS AT THE MARGIN LINE ON FULL WIDTH WALKS (OPTIONAL).

- ⑩ PLACE CONTRACTION JOINTS IN DRIVEWAYS SO THAT NO SLAB WILL EXCEED THE DIMENSIONS OF 15' BY 15'.
- ⑪ PLACE 1" PAPER EXPANSION JOINTS ON ALL SIDES OF COMMERCIAL DRIVES.
- ⑫ PLACE CONSTRUCTION OR CONTRACTION JOINT ON CENTERLINE WHEN WIDTH OF DRIVEWAY EXCEEDS 15'.
- ⑬ PLACE 1/2" PAPER EXPANSION JOINTS ON BOTH SIDES OF RESIDENTIAL DRIVEWAYS. IF DRIVEWAY EDGE IS WITHIN 2' OF LOT LINE, PLACE THIS EXPANSION PAPER AT PROPERTY LINE.
- CITY OF
CITY ENGINEERING
STANDARD
SIDEWALK

REvised DATE (METRIC TO ENGLISH UNIT SYSTEM): DEC. 2002

CITY OF DETROIT
CITY ENGINEERING DIVISION, D.P.W.
STANDARD PLAN FOR
SIDEWALK JOINTING
STANDARD

03/07/08 PLAN DATE	DRAWING NO. 9	DETAIL STANDARD NO. C-4462	SHEET 2 OF 2
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PREPARED FOR:



PREPARED BY:



TeleCAD Wireless

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

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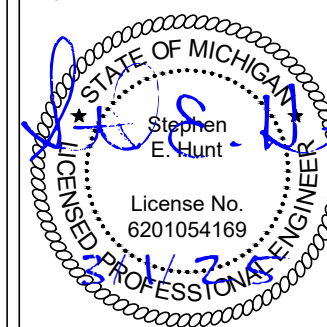
DRAWN BY:	JAF
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CHECKED BY:	SEH
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REVISIONS

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DETROIT, MI 48204

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GENERAL NOTES

DRAWING NO.

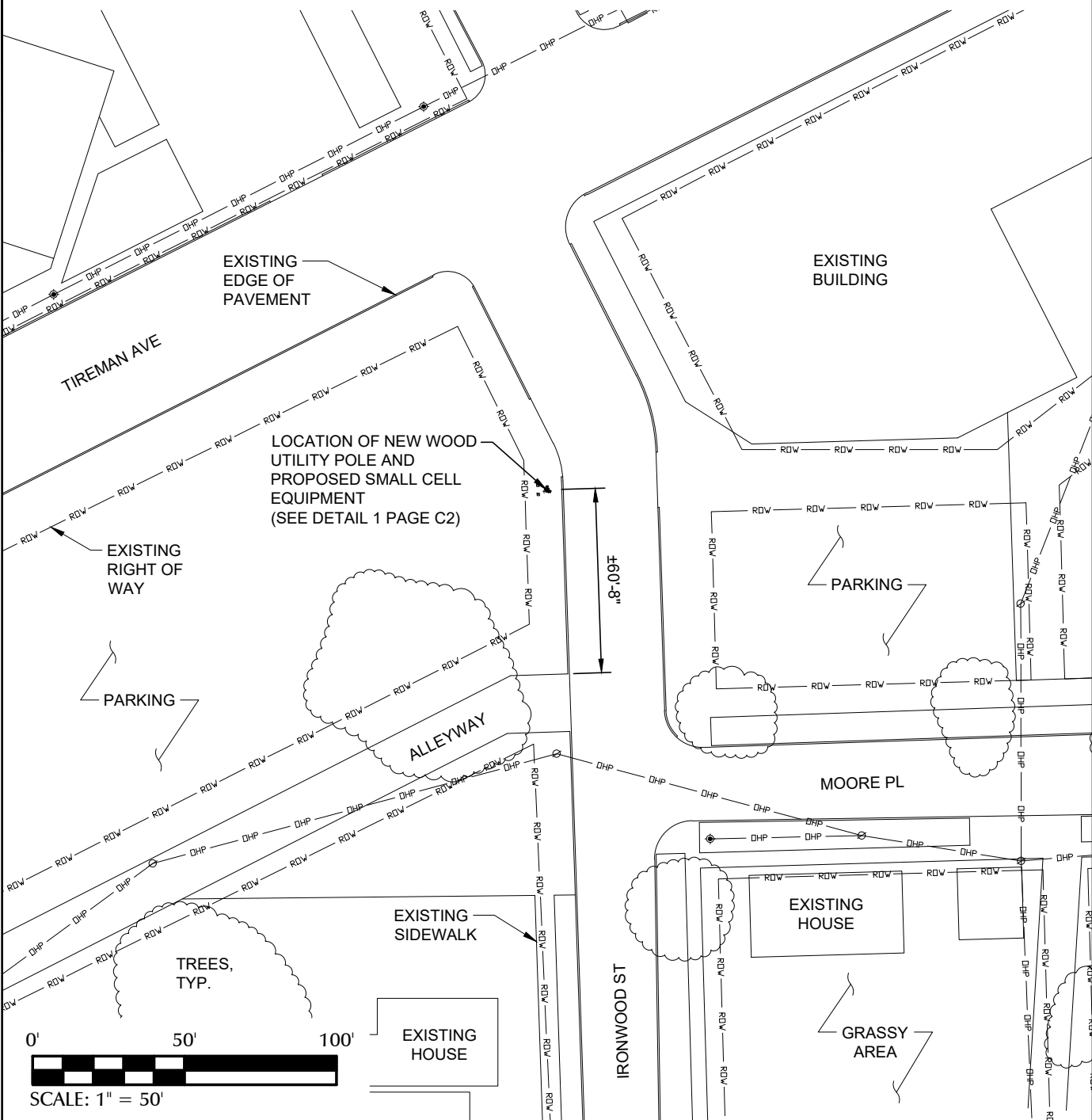
GN2

REVISION:

2

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.



1 OVERALL SITE LAYOUT

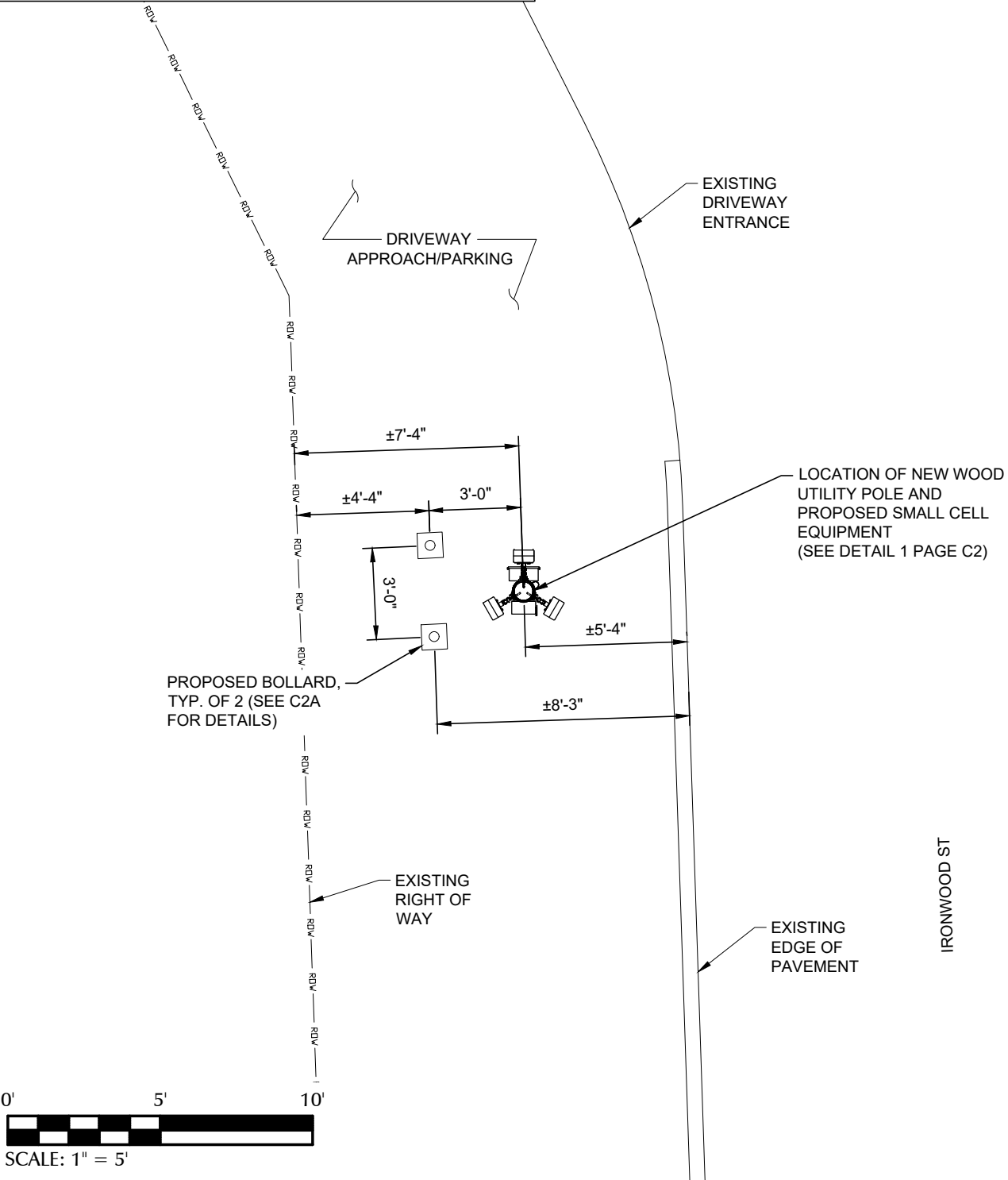
LEGEND

OVERHEAD UTILITIES	DHU	CATCH BASIN	CB
UNDERGROUND POWER	UGP	STREET SIGN	SS
OVERHEAD POWER	DHP	4 WAY STREET SIGN	4WS
UNDERGROUND TELCO	UGT	UTILITY POLE	UP
OVERHEAD TELCO	DHT	LIGHT POLE	LP
GAS LINE	GAS	WATER VALVE	WV
FENCE	F	MANHOLE	M
WOOD FENCE	WF	GAS VALVE	GV
SEWER LINE	SWR	FIRE HYDRANT	FH
WATER LINE	WTR	TELCO PEDESTAL	TP
HYBRID CABLE	HYB	ELECTRICAL BOX	EB
HIGH VOLTAGE POWER	HVP		
FIBER	FBR		
RIGHT-OF-WAY	RDW		
PROPERTY LINE	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.

MISSDIG DID NOT
REPORT ANY UTILITIES
AT NODE LOCATION.



2 ENLARGED SITE LAYOUT

PREPARED FOR:

verizon

PREPARED BY:

TeleCAD
Wireless

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

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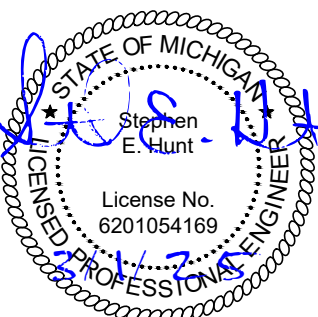
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SEH

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1	01/17/25	ZCK	CONSTRUCTION ISSUE
0	12/20/24	JAF	CONSTRUCTION ISSUE
A	11/15/24	JAF	PRELIMINARY REVIEW

ENGINEER'S STAMP:



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SITE NAME:

24265

ADDRESS:

5207 TIREMAN AVE
DETROIT, MI 48204

COUNTY:

WAYNE

LATITUDE:

42° 21' 7.164" N

LONGITUDE:

83° 7' 16.824" W

DESIGN TYPE:

RAWLAND

SHEET TITLE:

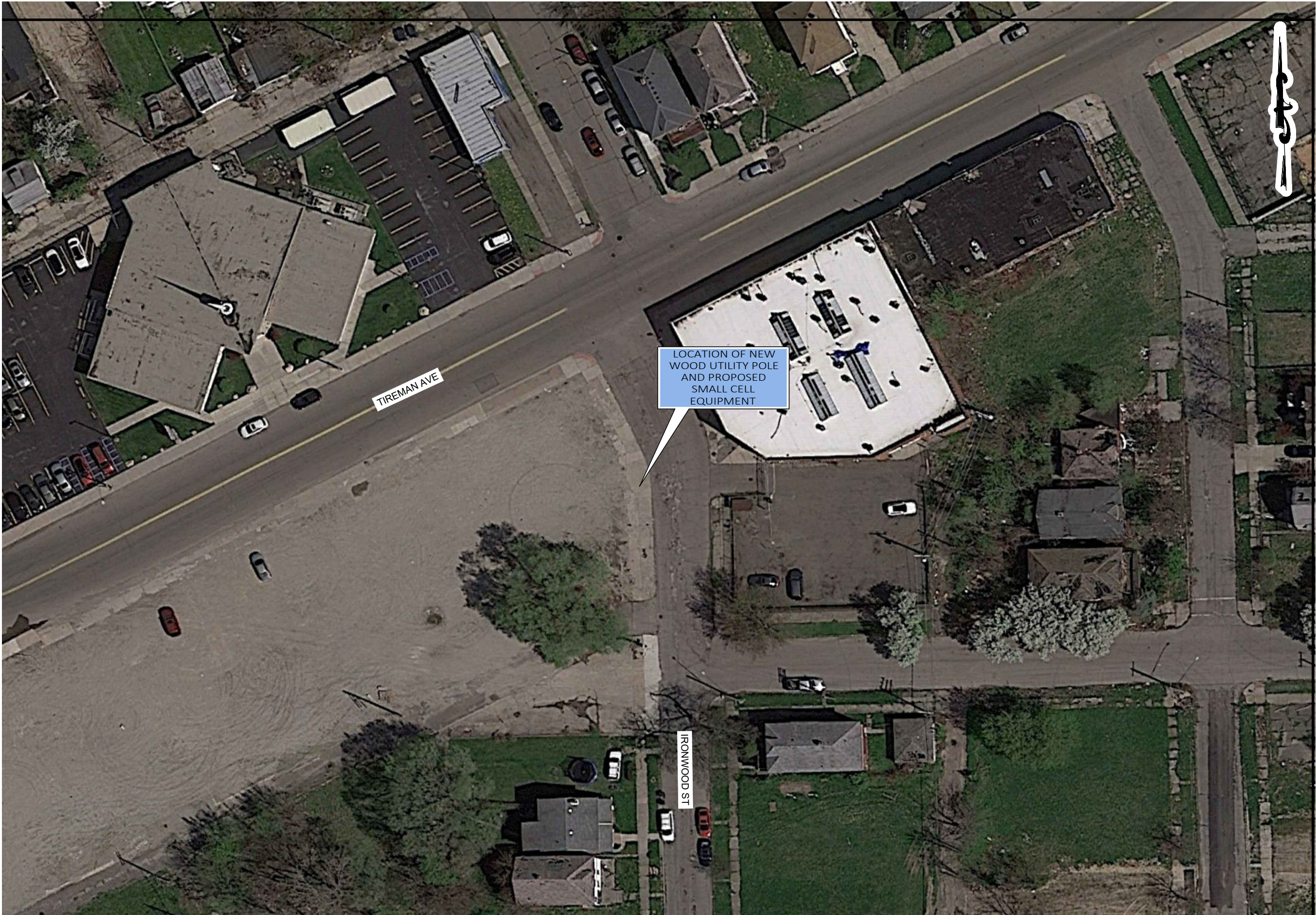
SITE LAYOUTS

DRAWING NO.

C1

REVISION:

2



PREPARED FOR:



PREPARED BY:



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Stephen E. Hunt
License No. 6201054169

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ADDRESS:	5207 TIREMAN AVE DETROIT, MI 48204
COUNTY:	WAYNE
LATITUDE:	42° 21' 7.164" N
LONGITUDE:	83° 7' 16.824" W
DESIGN TYPE:	RAWLAND

SHEET TITLE:
SITE LAYOUT -
AERIAL IMAGERY

DRAWING NO.	REVISION:
C1A	2

CONTRACTOR TO OBTAIN
LATEST RFDS FROM VERIZON
PRIOR TO CONSTRUCTION.

MAINTAIN A MIN. OF 3'-0"
CLEARANCE BETWEEN
DISCONNECT BOX AND ANY
COMM LINES

40" MIN. CLEARANCE
BELOW NEW TRIPLEX
SERVICE

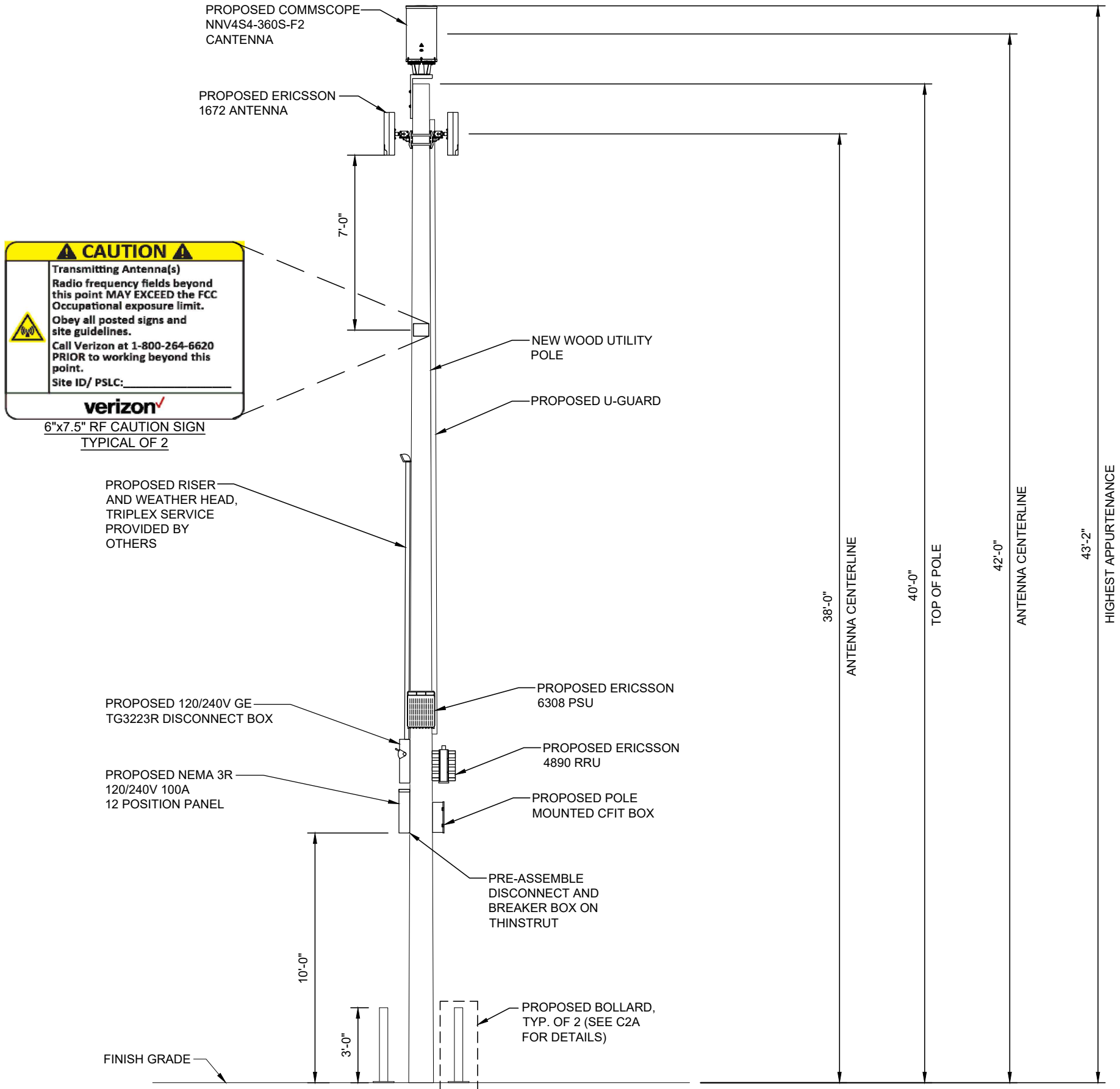
REFER TO RFDS FOR SMALL
CELL AZIMUTHS



**IN CASE OF EMERGENCY
CALL 1-800-852-2671**

SITE DESIGNATION: 24265

INSTALL ON BREAKER PANEL



PREPARED FOR:



PREPARED BY:



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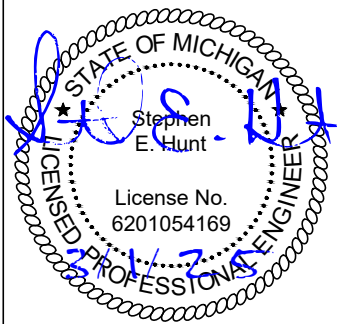
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SITE NAME: 24265

ADDRESS:
5207 TIREMAN AVE
DETROIT, MI 48204

COUNTY:
WAYNE

LATITUDE:
42° 21' 7.164" N

LONGITUDE:
83° 7' 16.824" W

DESIGN TYPE:
RAWLAND

SHEET TITLE:
POLE ELEVATION

DRAWING NO.

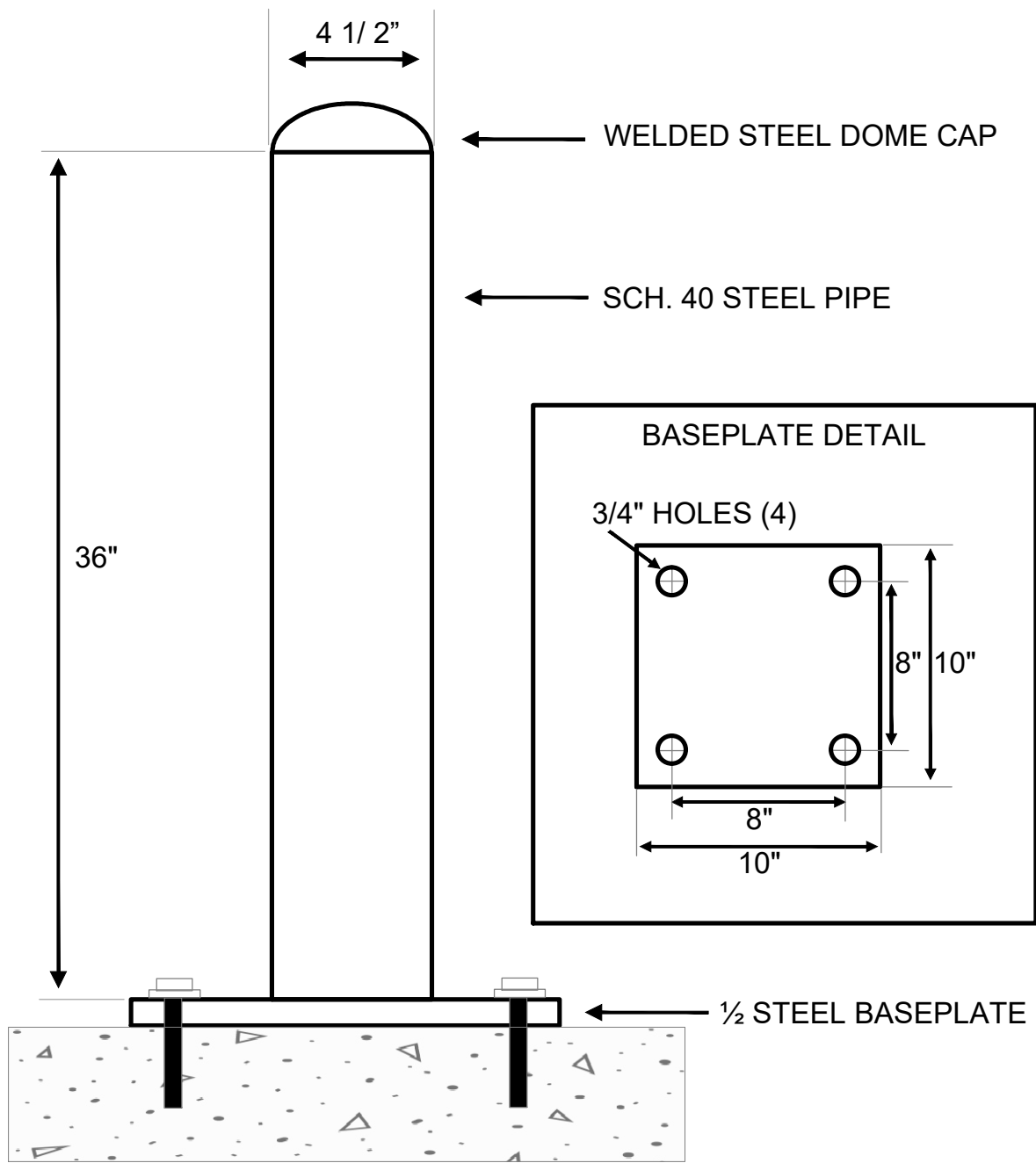
C2

REVISION:

2

N.T.S.

4" Bolt-Down Bollard, 36"Height



ITEM NUMBER: SMB4X36(PP)

 **RECOMMENDED ANCHOR:**
CONCRETE WITH 5/8"X6"
WEDGE ANCHOR BOLTS

PREPARED FOR:



PREPARED BY:

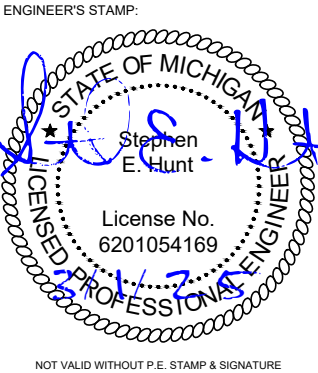


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COUNTY:	WAYNE
LATITUDE:	42° 21' 7.164" N
LONGITUDE:	83° 7' 16.824" W
DESIGN TYPE:	RAWLAND

SHEET TITLE:	BOLLARD DETAIL
--------------	----------------

DRAWING NO.	REVISION:
C2A	2

POLE ATTACHED EQUIPMENT	
EQUIPMENT	VOLUME (CU-FT)
1672 ANTENNA	0.62
1672 ANTENNA	0.62
1672 ANTENNA	0.62
COMMSCOPE NNV4S4-360S-F2	2.60
TOTAL IN CU-FT	4.46

POLE ANCILLARY EQUIPMENT	
EQUIPMENT	VOLUME (CU-FT)
12 POSITION PANEL	0.80
DISCONNECT	0.57
CFIT BOX	0.60
ERICSSON 4890 RRU	1.07
6308 PSU	0.63
TOTAL IN CU-FT	3.67

PREPARED FOR:



PREPARED BY:



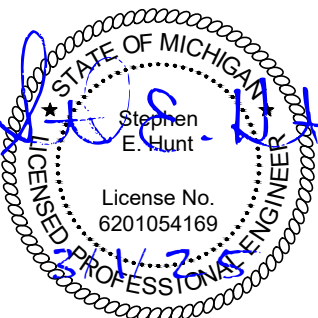
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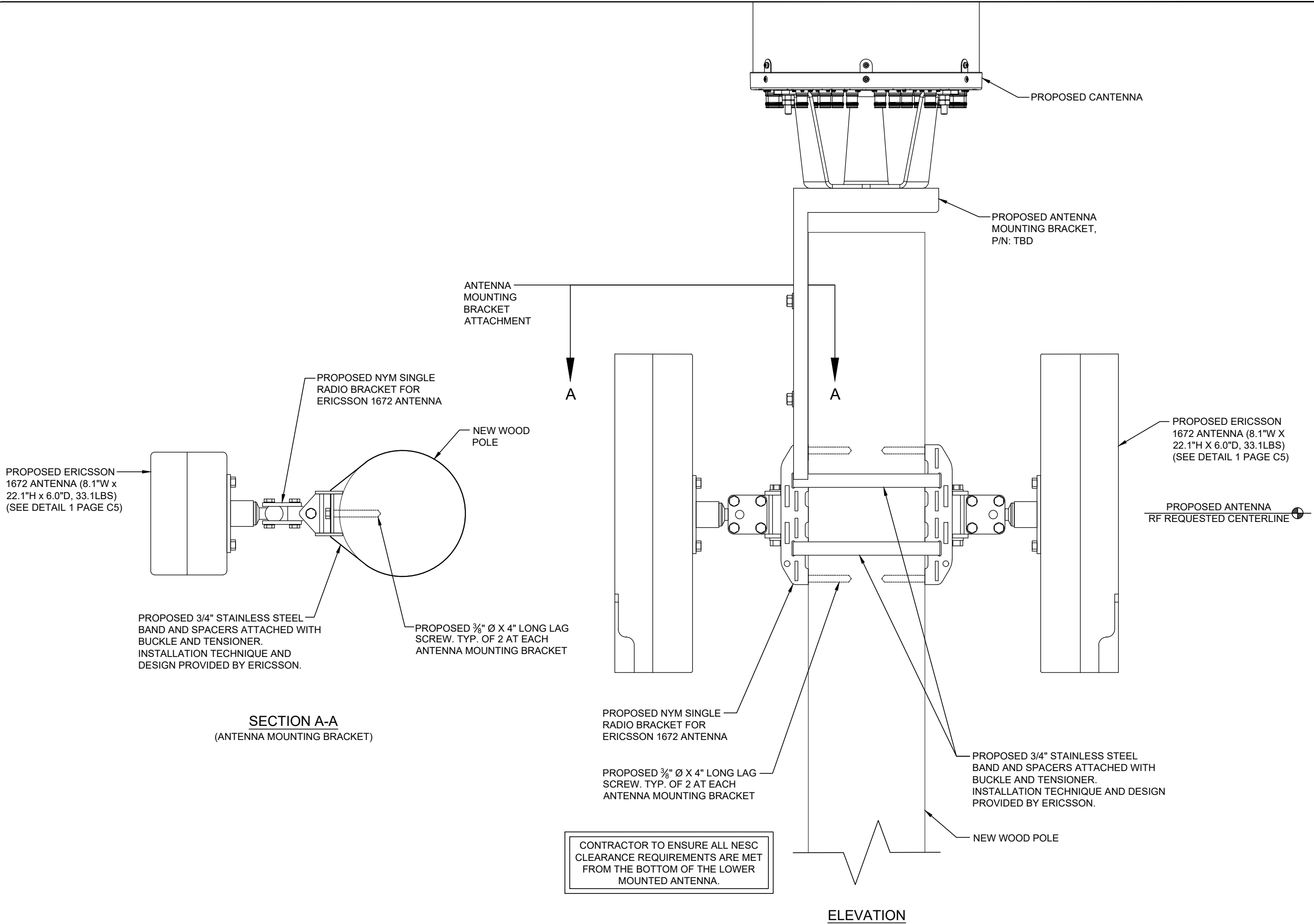


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ADDRESS:	5207 TIREMAN AVE DETROIT, MI 48204
COUNTY:	WAYNE
LATITUDE:	42° 21' 7.164" N
LONGITUDE:	83° 7' 16.824" W
DESIGN TYPE:	RAWLAND

SHEET TITLE:	SITE DETAILS
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C3	2



PREPARED FOR:



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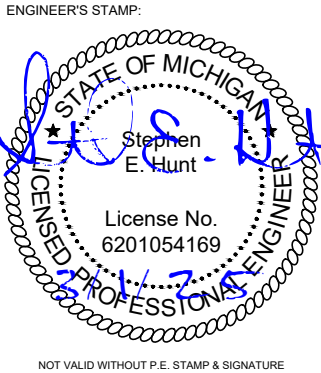


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LATITUDE:	42° 21' 7.164" N
LONGITUDE:	83° 7' 16.824" W
DESIGN TYPE:	RAWLAND

SHEET TITLE:
SITE DETAILS

DRAWING NO. C4	REVISION: 2
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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

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

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

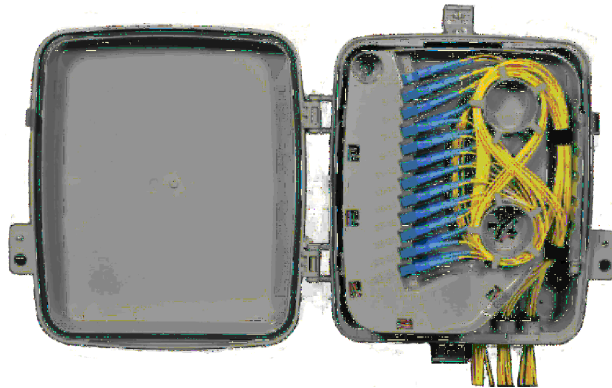
| 2023-01-09 | Commercial In Confidence | Page 53

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:

verizon

PREPARED BY:

TeleCAD
Wireless

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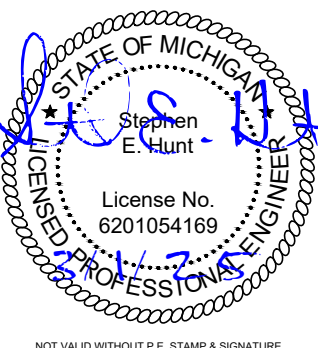
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ADDRESS:	5207 TIREMAN AVE DETROIT, MI 48204
COUNTY:	WAYNE
LATITUDE:	42° 21' 7.164" N
LONGITUDE:	83° 7' 16.824" W
DESIGN TYPE:	RAWLAND

SHEET TITLE:
EQUIPMENT DETAILS

DRAWING NO.	REVISION:
C5	2

1 ERICSSON 1672 ANTENNA

N.T.S.

2 C-FIT

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
wo 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)	

- 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

| 2023-03-29 | Commercial In Confidence | Page 1

Pending Commercial Agreements



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

3.1 Technical Data Summary

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

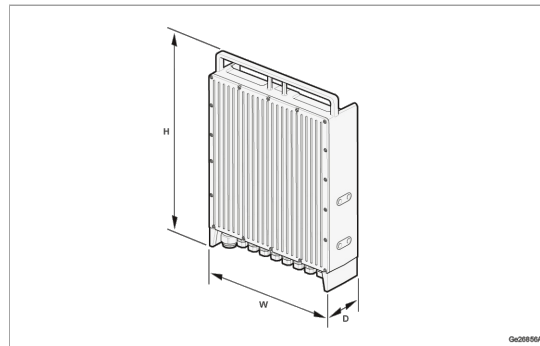


Figure 1 Unit Dimensions

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 6308	14 kg
Color	Value
Gray	NCS S 1002-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.

3 ERICSSON 4890 RRU

N.T.S.

4 ERICSSON 6308 PSU

N.T.S.

NNV4S4-360S-F2



20-port small cell antenna, 4x 698-896, 8x 1695–2690, 8x 3300-4200, 360° Horizontal Beamwidth, fixed tilt.

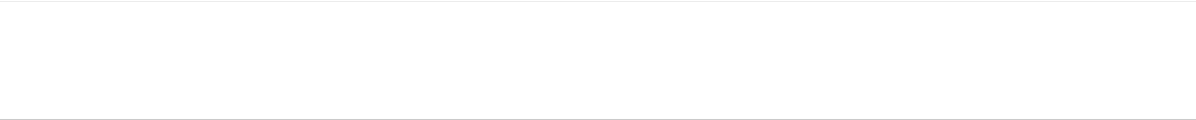
General Specifications

Antenna Type	Omni
Band	Multiband
Color	Light Gray (RAL 7035)
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage
Radome Material	ASA
Radiator Material	Aluminum Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, high band	8
RF Connector Quantity, mid band	8
RF Connector Quantity, low band	4
RF Connector Quantity, total	20

Dimensions

Length	610 mm 24.016 in
Net Weight, antenna only	14.6 kg 32.187 lb
Outer Diameter	370 mm 14.567 in

Port Configuration



Page 1 of 4

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NNV4S4-360S-F2



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz 3300 – 4200 MHz 698 – 896 MHz
Polarization	±45°
Total Input Power, maximum	900 W @ 50 °C

Electrical Specifications

	R1,R2	R1,R2	Y1-Y4	Y1-Y4	Y1-Y4	Y1-Y4	P1-P4	P1-P4	P1-P4
Frequency Band, MHz	698–806	806–896	1695–1920	1920–2180	2300–2360	2360–2690	3300–3550	3550–3700	3700–4200
RF Port	1~4	1~4	5~12	5~12	5~12	5~12	13~20	13~20	13~20
Gain, dBi	4.9	5.2	7.4	8.3	8.7	8.9	6.3	6.3	6.2
Beamwidth, Horizontal,	360	360	360	360	360	360	360	360	360

Page 2 of 4

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PREPARED BY:



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NO.	DATE	BY	DESCRIPTION

ENGINEER'S STAMP:

STATE OF MICHIGAN

Stephen E. Hunt

License No. 6201054169

PROFESSIONAL ENGINEER

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SITE NAME:	24265
ADDRESS:	5207 TIREMAN AVE DETROIT, MI 48204
COUNTY:	WAYNE
LATITUDE:	42° 21' 7.164" N
LONGITUDE:	83° 7' 16.824" W
DESIGN TYPE:	RAWLAND

SHEET TITLE:
EQUIPMENT DETAILS

DRAWING NO.	REVISION:
C6	2

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.

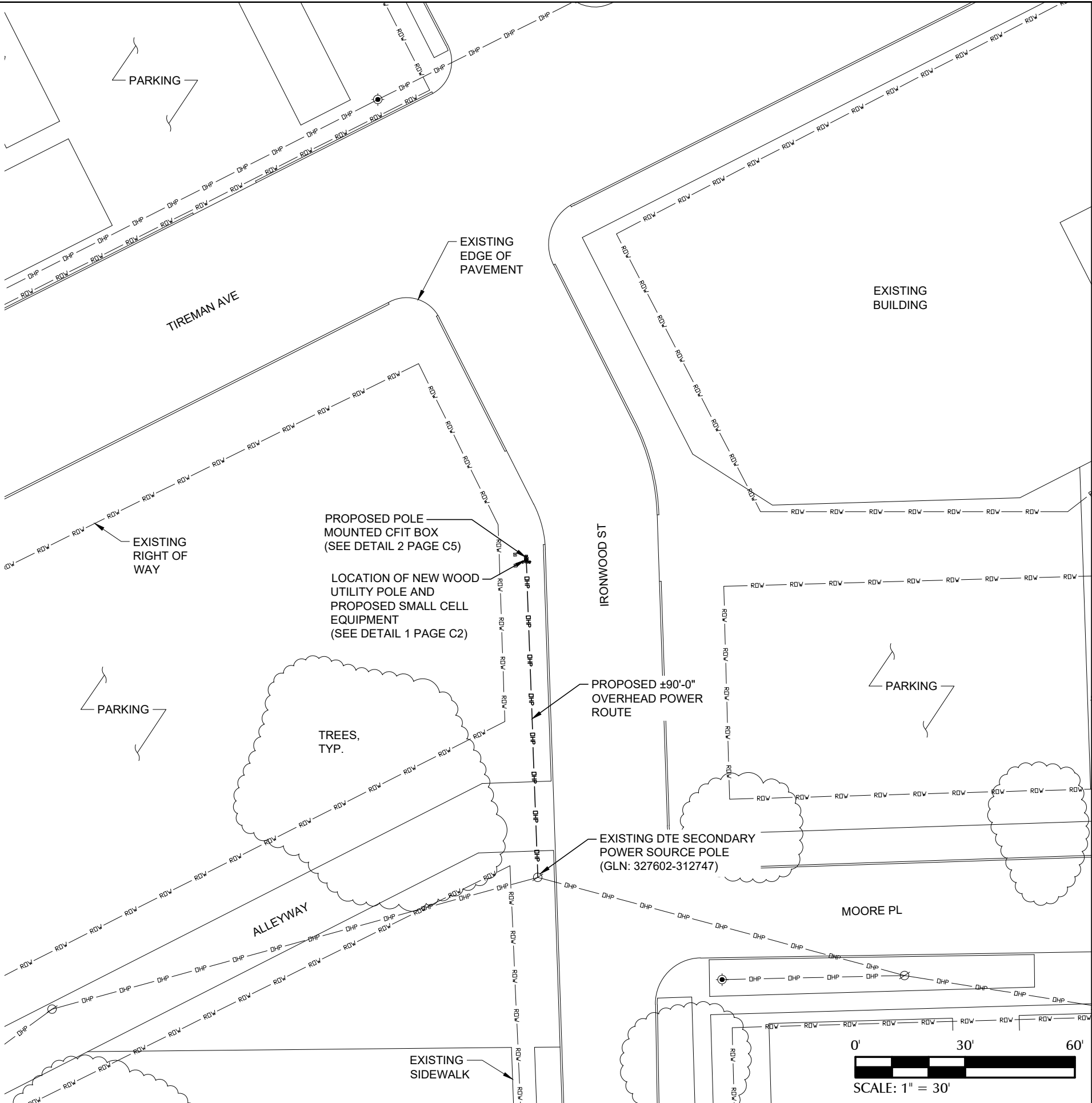
STANDARD POWER SUPPLY FOR THE SMALL CELL NODES IS A 100 AMP 120/208 OR 240 VOLT SINGLE PHASE SERVICE

WIRE SIZE	ALUMINUM		COPPER		CONDUIT SIZE
	208V	240V	208V	240V	
3 AWG	85'	100'	130'	155'	1 1/4" MIN
2 AWG	105'	120'	170'	200'	1 1/4" MIN
1 AWG	130'	150'	210'	240'	1 1/2" MIN
1/0 AWG	150'	170'	240'	280'	1 1/2" MIN
2/0 AWG	190'	220'	290'	330'	1 1/2" MIN
3/0 AWG	230'	265'	355'	410'	2" MIN
4/0 AWG	265'	310'	425'	490'	2" MIN
250 KCMIL	315'	365'	480'	555'	2 1/2" MIN
300 KCMIL	360'	415'	540'	625'	2 1/2" MIN
350 KCMIL	405'	470'	605'	700'	2 1/2" MIN
400 KCMIL	440'	510'	660'	760'	3" MIN
500 KCMIL	520'	600'	755'	870'	3" MIN



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 —	MANHOLE	(M)
WOOD FENCE	— o — o — o — o —	GAS VALVE	⋈
SEWER LINE	— SWR — SWR —	FIRE HYDRANT	⊙
WATER LINE	— WTR —	TELCO PEDESTAL	T
HYBRID CABLE	— HYB —	ELECTRICAL BOX	E
HIGH VOLTAGE POWER	— HVP —		
FIBER	— FBR —		
RIGHT-OF-WAY	— RDW — RDW —		
PROPERTY LINE	— PL — PL —		



PREPARED FOR:



PREPARED BY:



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HIXSON, TN 37343
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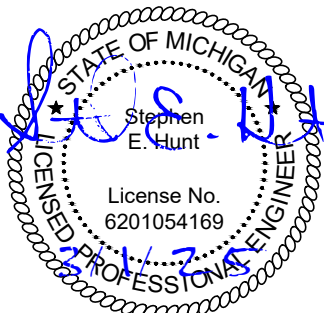
DRAWN BY: JAF

CHECKED BY: SEH

REVISIONS

NO.	DATE	BY	DESCRIPTION
2	03/01/25	ZCK	CONSTRUCTION ISSUE
1	01/17/25	ZCK	CONSTRUCTION ISSUE
0	12/20/24	JAF	CONSTRUCTION ISSUE
A	11/15/24	JAF	PRELIMINARY REVIEW

ENGINEER'S STAMP:



NOT VALID WITHOUT P.E. STAMP & SIGNATURE

SITE NAME: 24265

ADDRESS:
5207 TIREMAN AVE
DETROIT, MI 48204

COUNTY:
WAYNE

LATITUDE:
42° 21' 7.164" N

LONGITUDE:
83° 7' 16.824" W

DESIGN TYPE:
RAWLAND

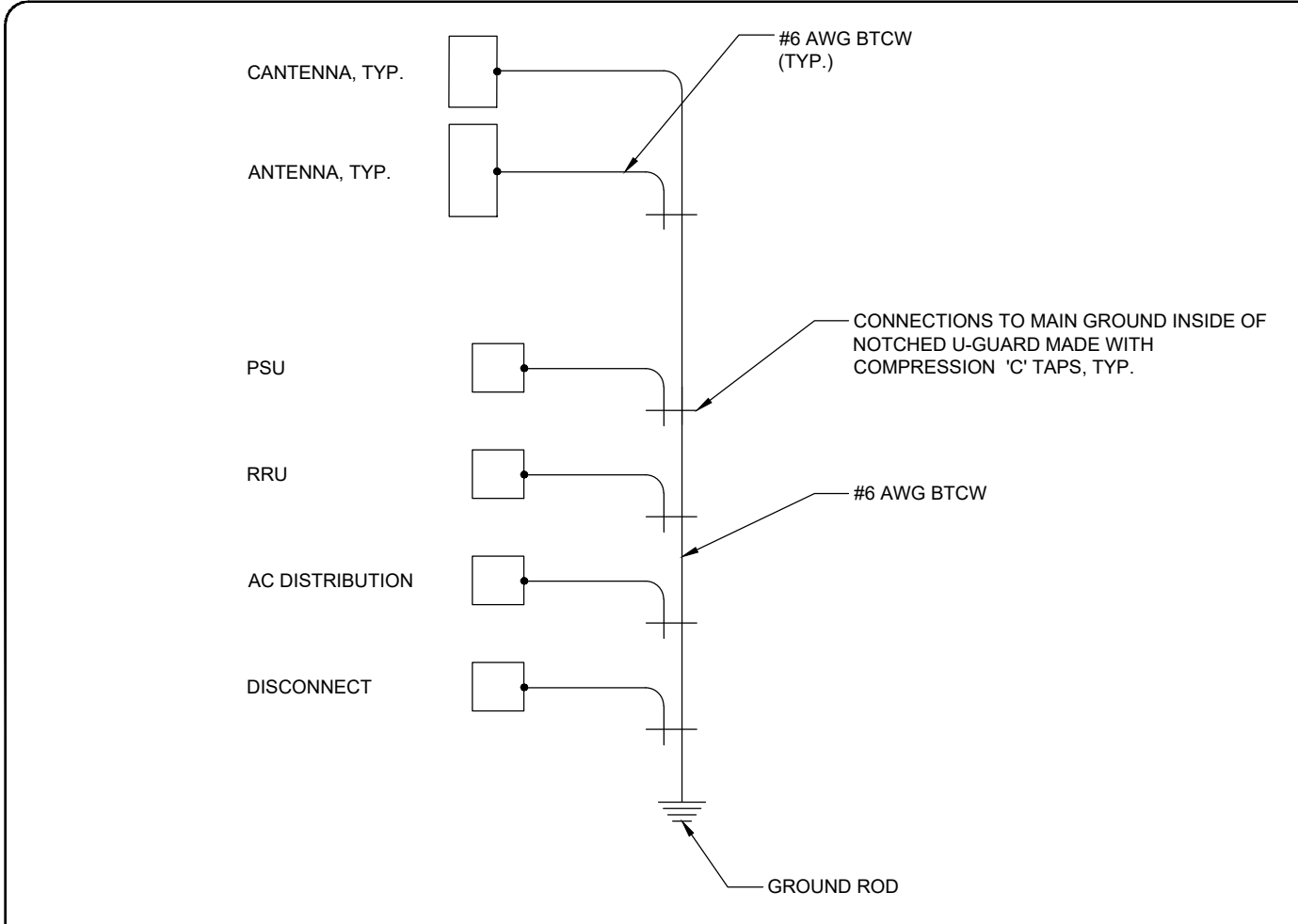
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UTILITY SITE PLAN

DRAWING NO.

E1

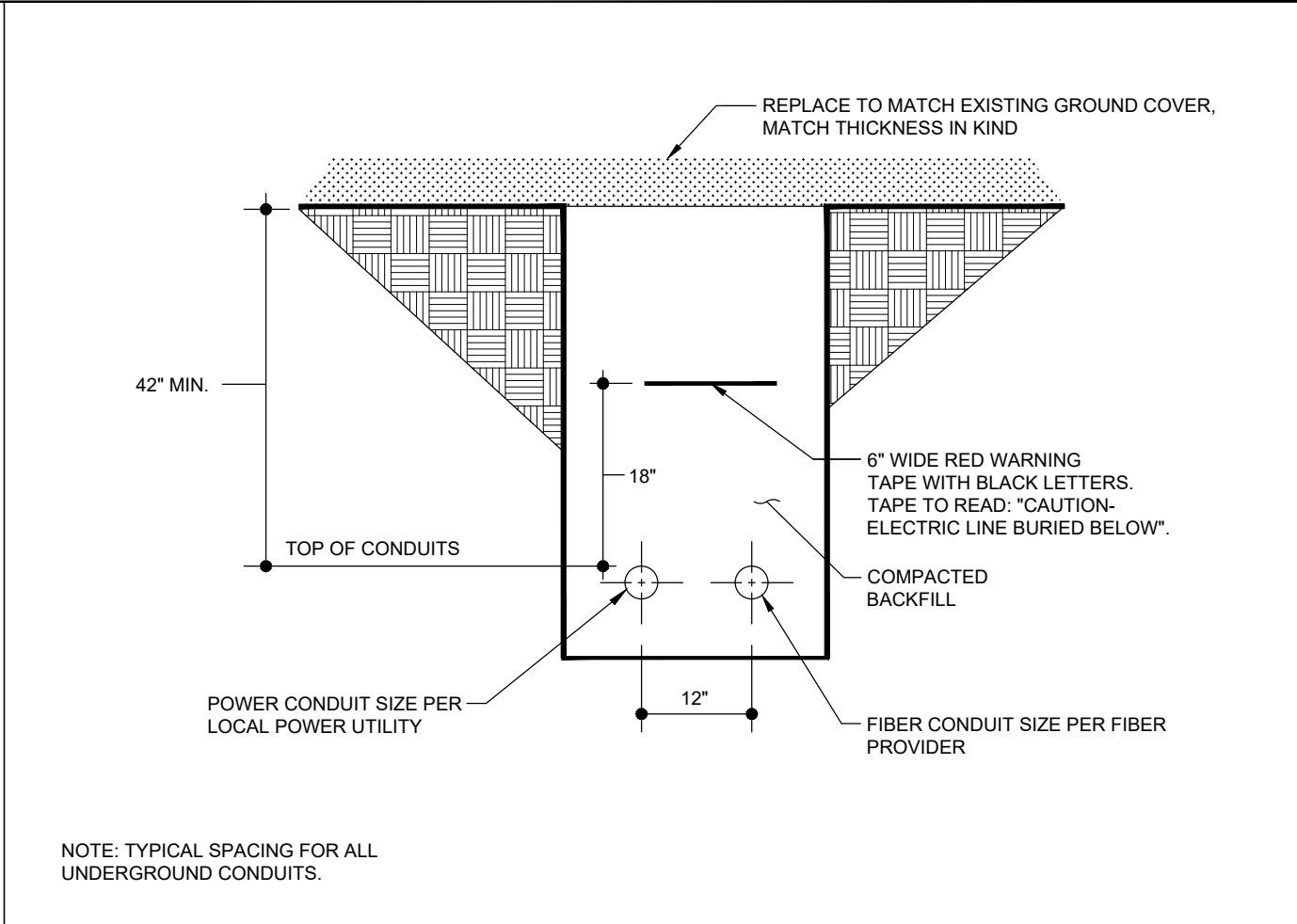
REVISION:

2



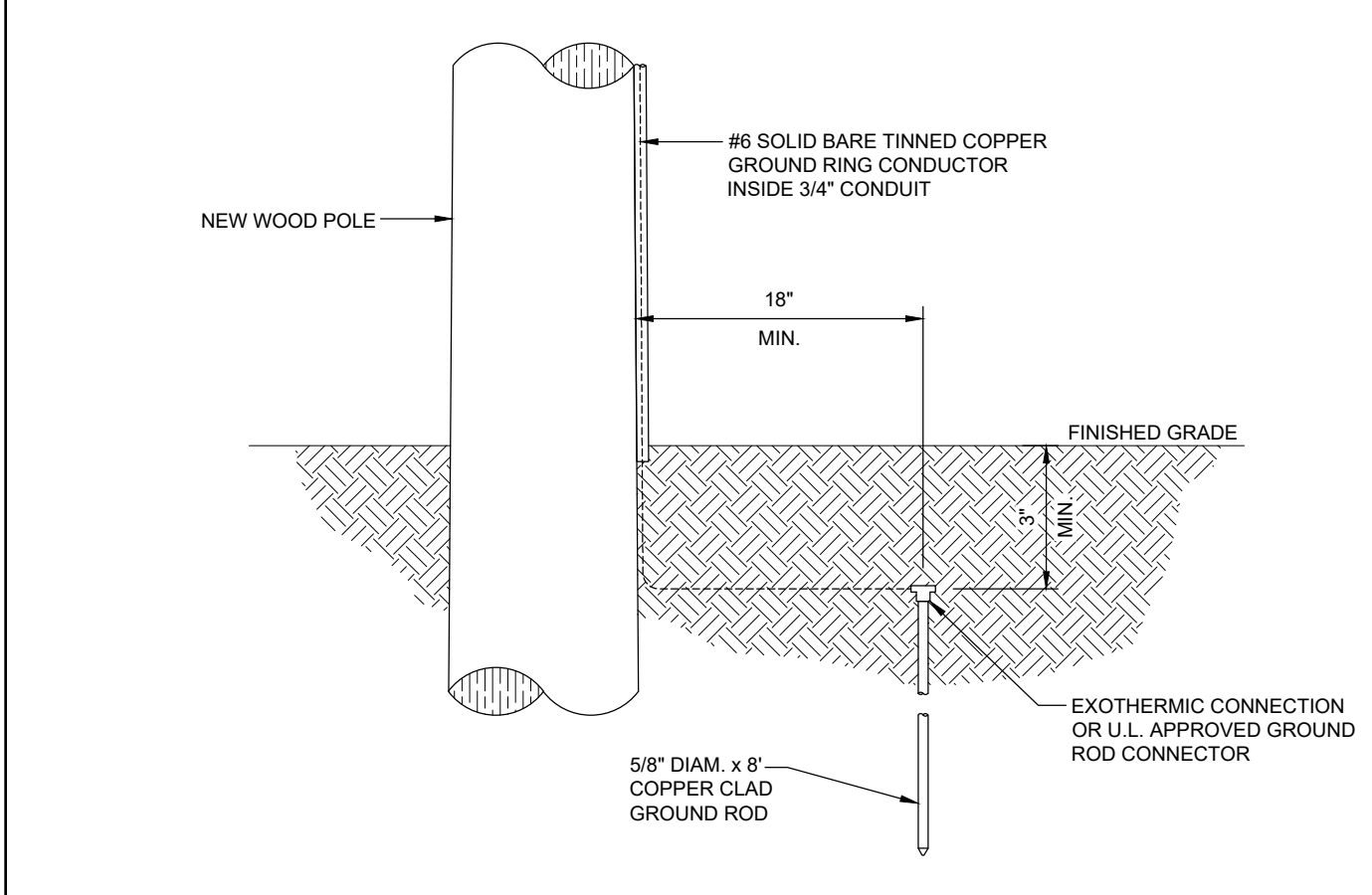
1 SINGLE POINT RADIAL GROUND DETAIL

N.T.S.



2 TRENCH DETAIL (IF REQUIRED)

N.T.S.



3 GROUND ROD DETAIL

N.T.S.



4 DETAIL NOT IN USE

PREPARED FOR:

PREPARED BY:

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

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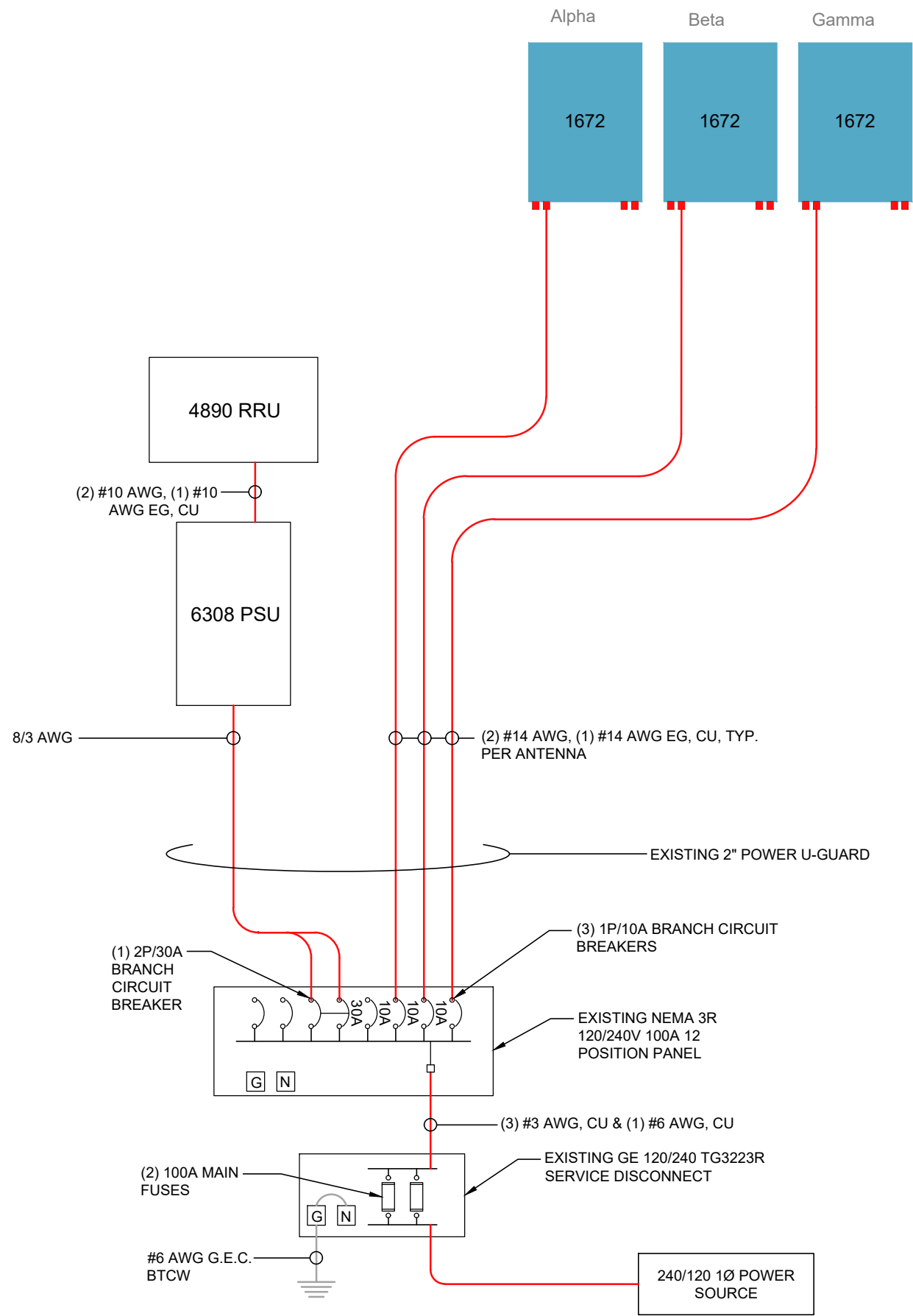
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ADDRESS:	5207 TIREMAN AVE DETROIT, MI 48204
COUNTY:	WAYNE
LATITUDE:	42° 21' 7.164" N
LONGITUDE:	83° 7' 16.824" W
DESIGN TYPE:	RAWLAND

SHEET TITLE:

ELECTRICAL DETAILS

DRAWING NO.	REVISION:
E2	2



PREPARED FOR:



PREPARED BY:



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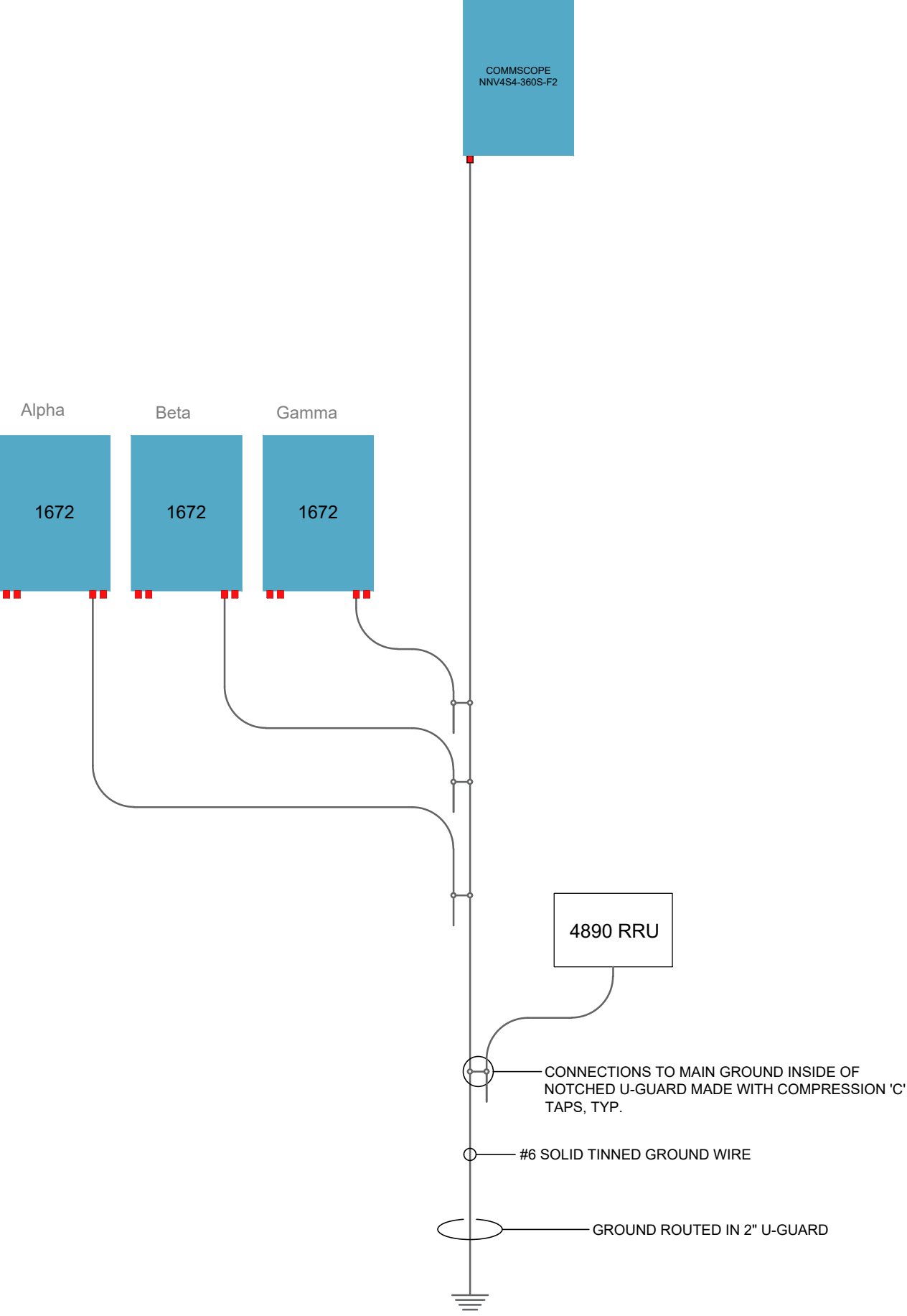
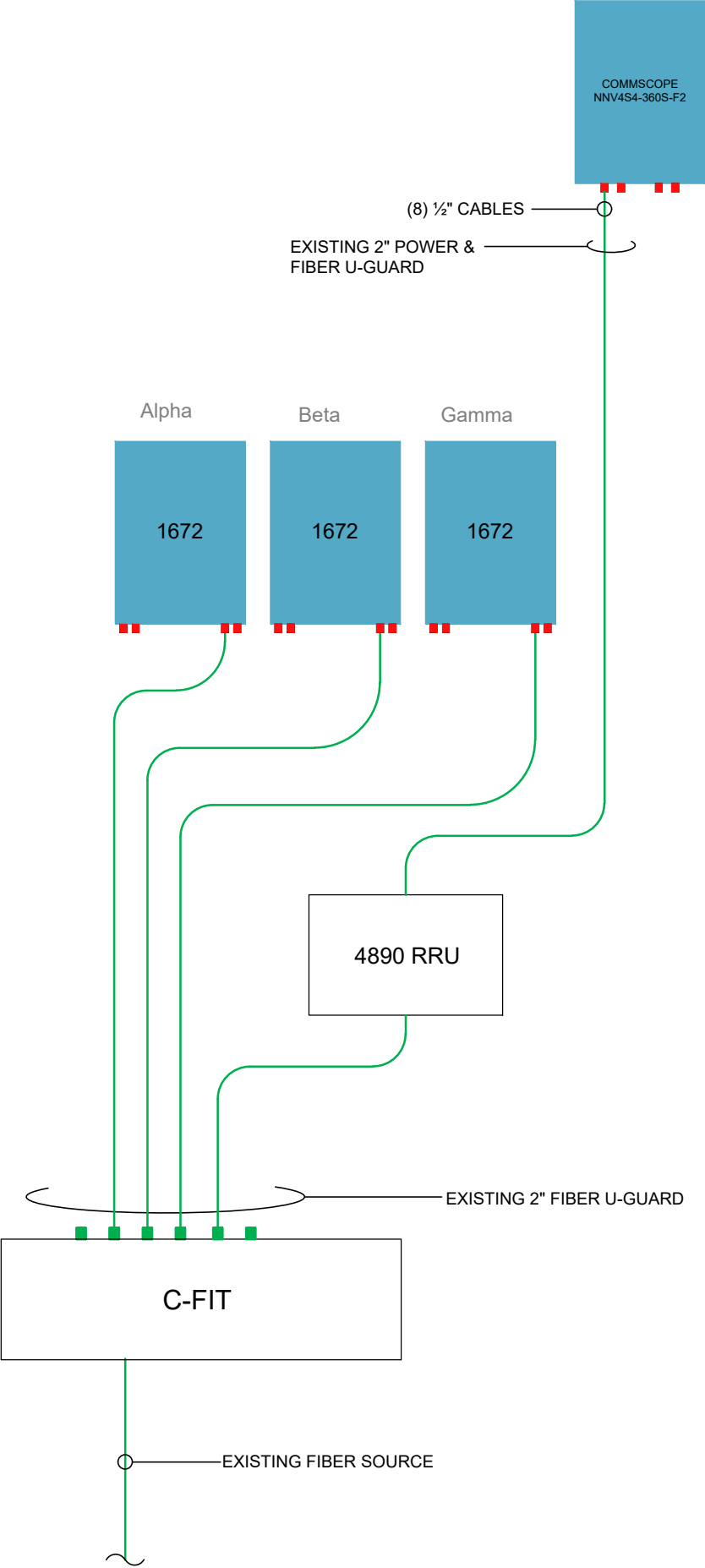
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A	11/15/24	JAF	PRELIMINARY REVIEW
NO.	DATE	BY	DESCRIPTION



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COUNTY:	WAYNE
LATITUDE:	42° 21' 7.164" N
LONGITUDE:	83° 7' 16.824" W
DESIGN TYPE:	RAWLAND

SHEET TITLE:
SINGLE LINE DIAGRAM

DRAWING NO. E3	REVISION: 2
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PREPARED BY:

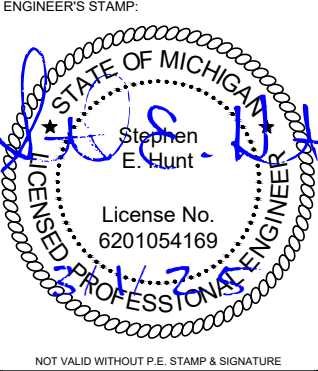


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DETROIT, MI 48204
COUNTY: WAYNE
LATITUDE: 42° 21' 7.164" N
LONGITUDE: 83° 7' 16.824" W
DESIGN TYPE: RAWLAND

SHEET TITLE:
SINGLE LINE DIAGRAM

DRAWING NO. E3A	REVISION: 2
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PROJECT SUMMARY	
SITE NAME:	24265
SITE ADDRESS: (ESTIMATED)	5207 TIREMAN AVE DETROIT, MI 48204
COUNTY:	WAYNE
JURISDICTION:	CITY OF DETROIT
<u>SITE COORDINATES:</u>	
LATITUDE:	42° 21' 7.164" N
LATITUDE:	42.35199°
LONGITUDE:	83° 7' 16.824" W
LONGITUDE:	-83.12134°
ELEVATION:	±610'-5"
PROPERTY DEFINITION:	R.O.W.
FUZE PROJECT ID:	17119111
MDG LOCATION ID:	5000939279
PROPOSED POLE HEIGHT:	40'-0"
PROPOSED POLE CLASS:	TBD

verizon

SITE NAME: 24265

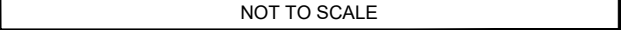
PROPOSED SMALL CELL EQUIPMENT
ON A NEW VERIZON POLE

VICINITY MAP



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

LOCATION MAP

[illegible]

SCOPE OF WORK

- INSTALLING NEW WOOD UTILITY POLE WITH (2) BOLLARD PROTECTION (CLASS TBD)
- INSTALLING EQUIPMENT
 - (3) ERICSSON 1672 ANTENNAS
 - (1) COMMScope NNV4S4-360S-F2
 - (1) ERICSSON 4890 RRU
 - (1) ERICSSON 6308 PSU
 - CFIT BOX
 - (1) FIBER & (1) POWER CABLE PER ANTENNA
 - DISCONNECT

STATE COUNTY MAP



SITE NAME:	24265
ADDRESS:	5207 TIREMAN AVE DETROIT, MI 48204
COUNTY:	WAYNE
LATITUDE:	42° 21' 7.164" N
LONGITUDE:	83° 7' 16.824" W
DESIGN TYPE:	RAWLAND

DRAWING NO.	REVISION:
T1	2

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.
4. ALL SIDEWALK REMOVAL AND REPLACEMENT PREFORMED WITHIN THE ROW SHALL CONFORM TO THE COD STANDARD PLAN C-4462 ([HTTPS://DETROITMI.GOV/DEPARTMENTS/DEPARTMENT-PUBLIC-WORKS/RIGHT-WAY-PERMITS-AND-STANDARDS](https://detroitmi.gov/departments/departments-public-works/right-way-permits-and-standards)).

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:



PREPARED BY:

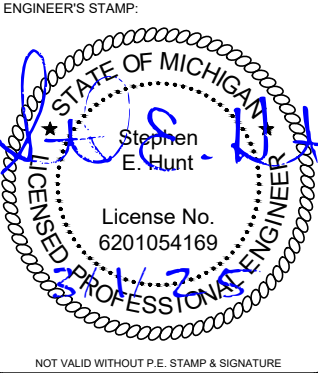


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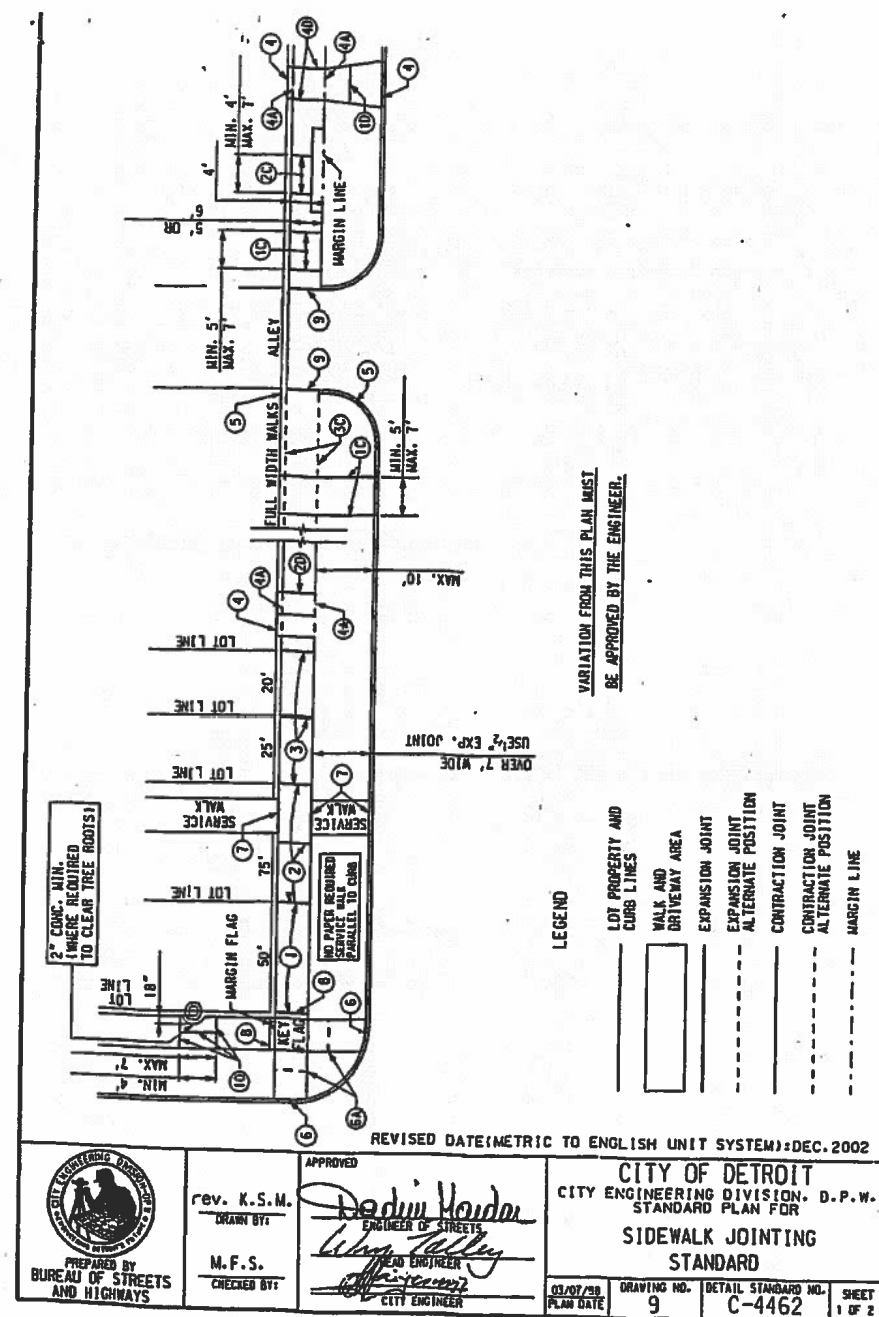
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SHEET TITLE:	GENERAL NOTES
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DRAWING NO.	REVISION:
GN1	2



LEGEND

LOT PROPERTY AND CURB LINES	
WALK AND DRIVEWAY AREA	
EXPANSION JOINT	
EXPANSION JOINT ALTERNATE POSITION	
CONTRACTION JOINT	
CONTRACTION JOINT ALTERNATE POSITION	
MARGIN LINE	

REvised DATE (METRIC TO ENGLISH UNIT SYSTEM): DEC. 2002



PREPARED BY
BUREAU OF STREETS
AND HIGHWAYS

rev. K.S.M

M.F.S.
CHECKED BY:

APPROVED

Bodin Moida

ENGINEER OF STREETS
Wm. Talley
HEAD ENGINEER
1913

CITY OF DETROIT
CITY ENGINEERING DIVISION. D. P. W.
STANDARD PLAN FOR
SIDEWALK JOINTING
STANDARD

03/07/98 PLAN DATE	DRAWING NO. 9	DETAIL STANDARD NO. C-4462	SHEET 1 OF 2
-----------------------	------------------	-------------------------------	-----------------

EXPANSION JOINTS

- ① PLACE 1/2" PAPER EXPANSION JOINTS AT LOT LINES WHEN LOT LINES ARE BETWEEN 25' AND 50' APART.
- ② PLACE ADDITIONAL 1/2" PAPER EXPANSION JOINTS SO THAT THE DISTANCE BETWEEN JOINTS DOES NOT EXCEED 15.2 m WHEN LOT LINES ARE OVER 15.240 m APART.
- ③ PLACE 1/2" PAPER EXPANSION JOINTS AT EVERY SECOND LOT LINE AND CONTRACTION JOINT AT INTERVENING LOT LINE WHEN LOT LINES ARE LESS THAN 25' APART.
- ④ PLACE 1" PAPER EXPANSION JOINTS AT CURB AND BUILDING OR PROPERTY LINE OR AT ALTERNATE POSITION (1A) AS SHOWN FOR DRIVEWAY.
- ⑤ PLACE 1" PAPER EXPANSION JOINTS AT CURB AND BUILDING OR PROPERTY LINE FOR FULL WIDTH SIDEWALK EXCEEDING 7' IN WIDTH.
- ⑥ PLACE 1" PAPER EXPANSION JOINTS AT CURB CIRCLES OR AT ALTERNATE POSITION (6A) AS SHOWN.
- ⑦ PLACE 1" PAPER EXPANSION JOINTS AT INTERSECTIONS OF SERVICE WALKS AND SIDEWALKS AND SERVICE WALKS AND CURBS.
- ⑧ PLACE 1" PAPER EXPANSION JOINTS AT MARGIN FLAGS AT CROSSWALKS.
- ⑨ PLACE 1" PAPER EXPANSION JOINTS AT ALLEY APRONS.
- ⑩ PLACE 1/2" PAPER EXPANSION JOINT BOTH SIDES OF SIDEWALK FLAG ABUTTING TREE AND ON CENTERLINE JOINT.

- 1C PLACE CONTRACTION JOINTS AT INTERVALS OF NOT LESS THAN 5' NOR MORE THAN 7' ON WALKS 5' WIDE OR WIDER, INCLUDING FULL WIDTH WALKS.
- 2C PLACE CONTRACTION JOINTS AT INTERVALS OF NOT LESS THAN 4' NOR MORE THAN 7' ON WALKS 4' WIDE.
- 3C PLACE CONTRACTION JOINTS AT THE MARGIN LINE ON FULL WIDTH WALKS (OPTIONAL).

- (1D) PLACE CONTRACTION JOINTS IN DRIVEWAYS SUCH THAT NO SLAB WILL EXCEED THE DIMENSIONS OF 15' BY 15'.
 (2D) PLACE 1" PAPER EXPANSION JOINTS ON ALL SIDES OF COMMERCIAL DRIVES.
 (3D) PLACE CONSTRUCTION OR CONTRACTION JOINT ON CENTERLINE WHEN WIDTH OF DRIVEWAY EXCEEDS 15'.
 (4D) PLACE 1" PAPER EXPANSION JOINTS ON BOTH SIDES OF RESIDENTIAL DRIVEWAYS. IF DRIVEWAY EDGE IS WITHIN 2' OF LOT LINE, PLACE THIS EXPANSION PAPER AT PROPERTY LINE.
- CITY OF
 CITY ENGINEERING
 STANDARD
 SIDEWALK

REVISED DATE (METRIC TO ENGLISH UNIT SYSTEM): DEC. 2002

CITY OF DETROIT
CITY ENGINEERING DIVISION, D.P.W.
STANDARD PLAN FOR
SIDEWALK JOINTING
STANDARD

03/27/28 PLAN DATE	DRAWING NO. 9	DETAIL STANDARD NO. C-4462	SHEET 2 OF 2
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PREPARED FOR:



PREPARED BY:



TeleCAD Wireless

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

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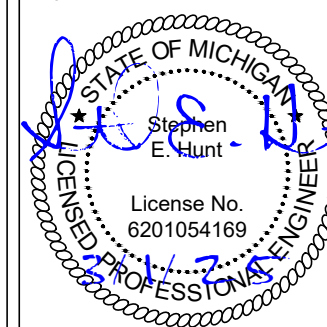
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CHECKED BY:	SEH
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REVISIONS

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DESIGN TYPE: RAWLAND

SHEET TITLE:

GENERAL NOTES

DRAWING NO.

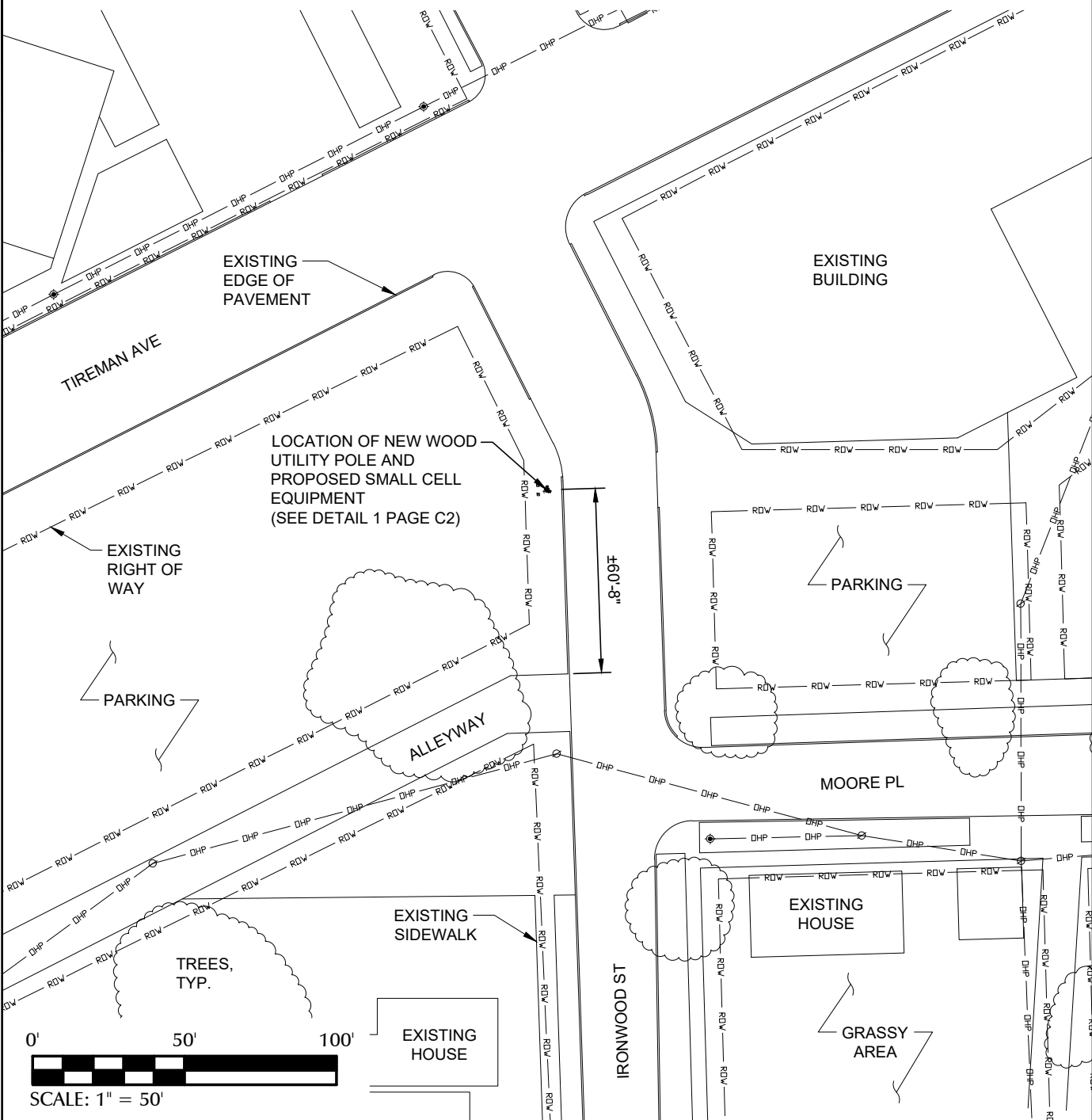
GN2

REVISION:

2

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.



1 OVERALL SITE LAYOUT

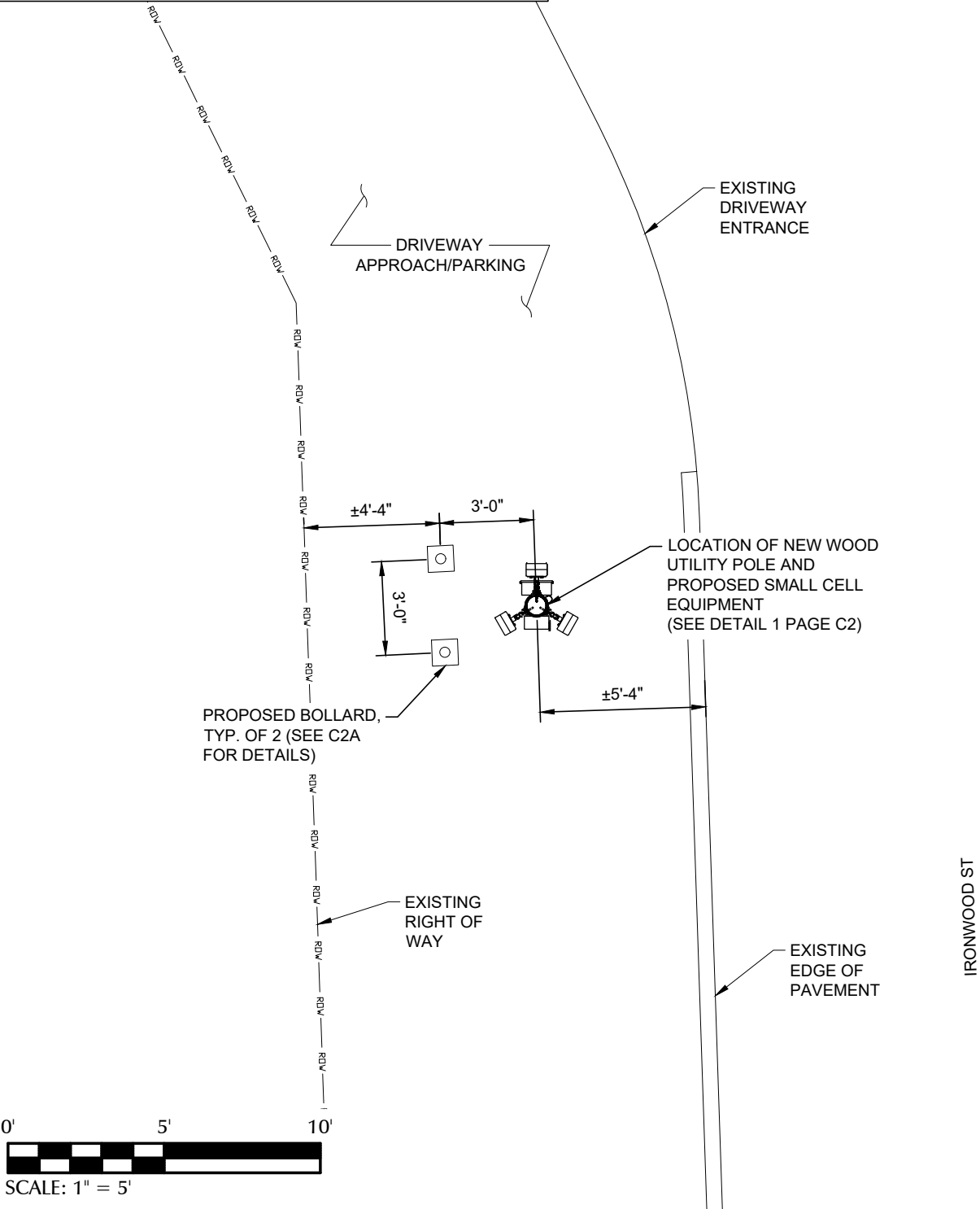
LEGEND

OVERHEAD UTILITIES	DHU	CATCH BASIN	Grid Symbol
UNDERGROUND POWER	UGP	STREET SIGN	Line with Arrow
OVERHEAD POWER	DHP	4 WAY STREET SIGN	Plus Symbol
UNDERGROUND TELCO	UGT	UTILITY POLE	Circle with Cross
OVERHEAD TELCO	DHT	LIGHT POLE	Circle with Dot
GAS LINE	GAS	WATER VALVE	Valve Symbol
FENCE	X-X-X-X-X	MANHOLE	M in Circle
WOOD FENCE	O-O-O-O-O	GAS VALVE	G in Circle
SEWER LINE	SWR	FIRE HYDRANT	Hydrant Symbol
WATER LINE	WTR	TELCO PEDESTAL	T in Square
HYBRID CABLE	HYB	ELECTRICAL BOX	E in Square
HIGH VOLTAGE POWER	HVP		
FIBER	FBR		
RIGHT-OF-WAY	RDW		
PROPERTY LINE	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.

MISSDIG DID NOT
REPORT ANY UTILITIES
AT NODE LOCATION.



2 ENLARGED SITE LAYOUT

PREPARED FOR:

verizon

PREPARED BY:

TeleCAD
Wireless

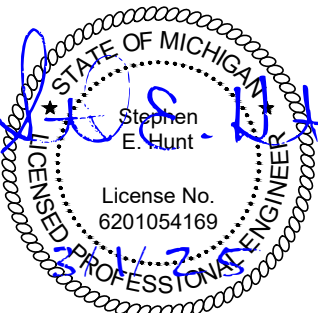
1961 NORTHPOINT BLVD, SUITE 130
HIXSON, TN 37343
PH: 423-843-9500
FAX: 423-843-9509

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1	01/17/25	ZCK	CONSTRUCTION ISSUE
0	12/20/24	JAF	CONSTRUCTION ISSUE
A	11/15/24	JAF	PRELIMINARY REVIEW

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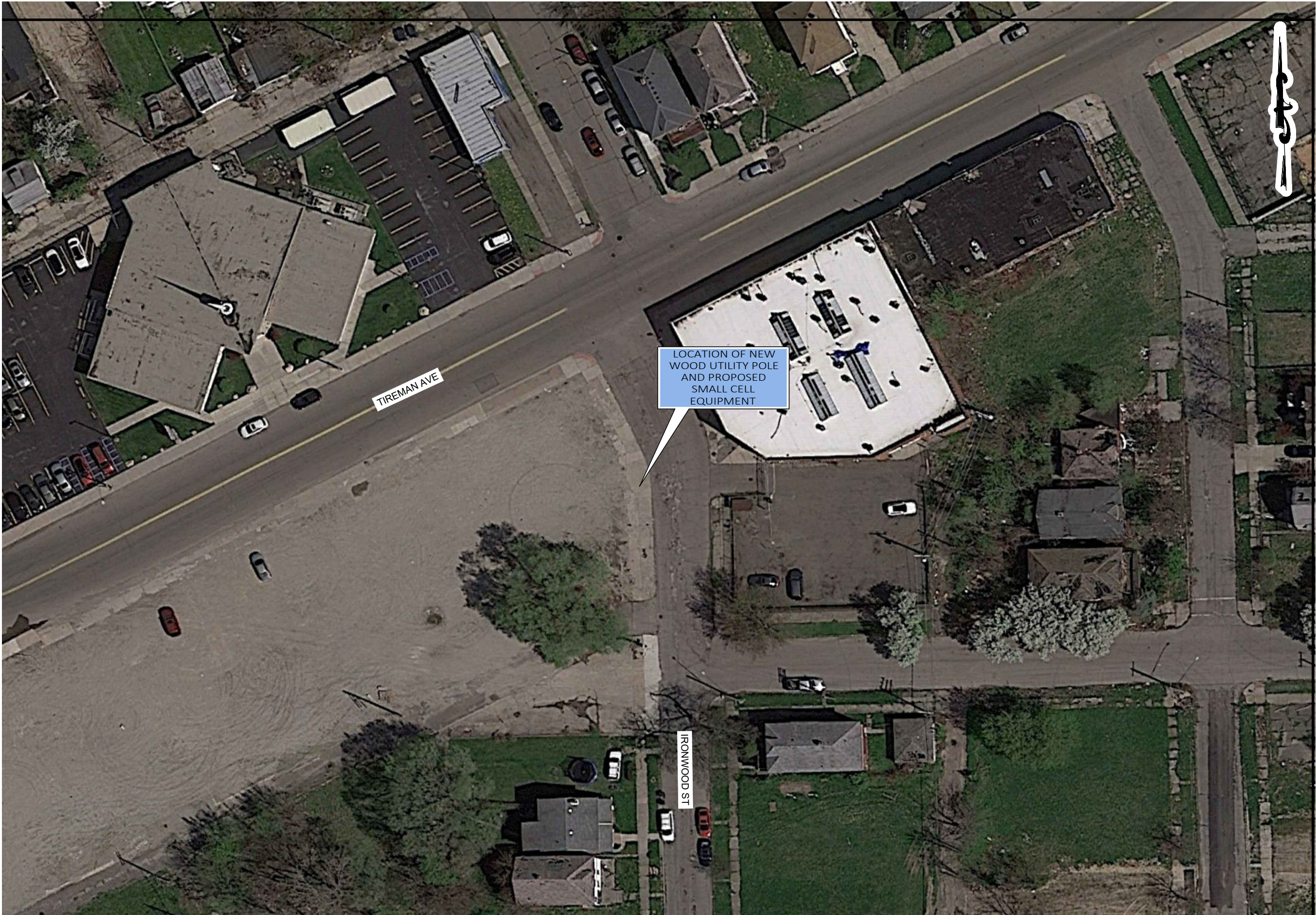


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ADDRESS:	5207 TIREMAN AVE DETROIT, MI 48204
COUNTY:	WAYNE
LATITUDE:	42° 21' 7.164" N
LONGITUDE:	83° 7' 16.824" W
DESIGN TYPE:	RAWLAND

SHEET TITLE:	SITE LAYOUTS
--------------	--------------

DRAWING NO.	REVISION:
C1	2



PREPARED FOR:



PREPARED BY:



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HIXSON, TN 37343
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Stephen E. Hunt
License No. 6201054169

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COUNTY:	WAYNE
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LONGITUDE:	83° 7' 16.824" W
DESIGN TYPE:	RAWLAND

SHEET TITLE:
SITE LAYOUT -
AERIAL IMAGERY

DRAWING NO.	REVISION:
C1A	2

CONTRACTOR TO OBTAIN
LATEST RFDS FROM VERIZON
PRIOR TO CONSTRUCTION.

MAINTAIN A MIN. OF 3'-0"
CLEARANCE BETWEEN
DISCONNECT BOX AND ANY
COMM LINES

40" MIN. CLEARANCE
BELOW NEW TRIPLEX
SERVICE

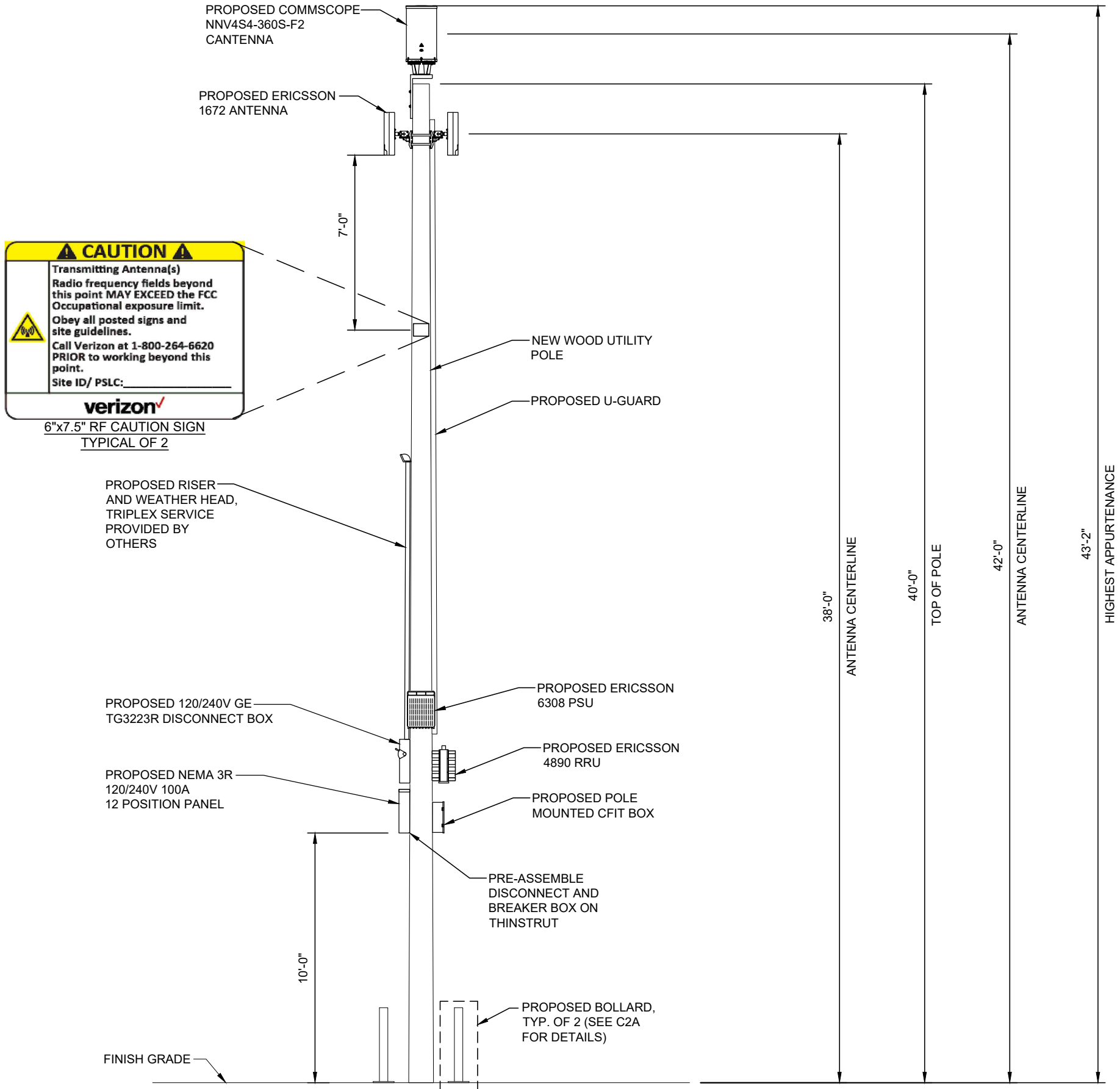
REFER TO RFDS FOR SMALL
CELL AZIMUTHS



**IN CASE OF EMERGENCY
CALL 1-800-852-2671**

SITE DESIGNATION: 24265

INSTALL ON BREAKER PANEL



PREPARED FOR:



PREPARED BY:



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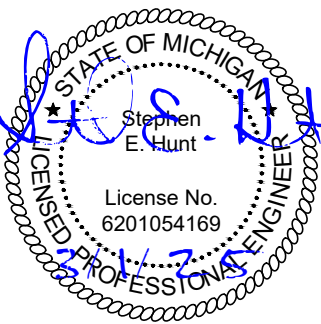
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SITE NAME: 24265

ADDRESS:
5207 TIREMAN AVE
DETROIT, MI 48204

COUNTY:
WAYNE

LATITUDE:
42° 21' 7.164" N

LONGITUDE:
83° 7' 16.824" W

DESIGN TYPE:
RAWLAND

SHEET TITLE:
POLE ELEVATION

DRAWING NO.

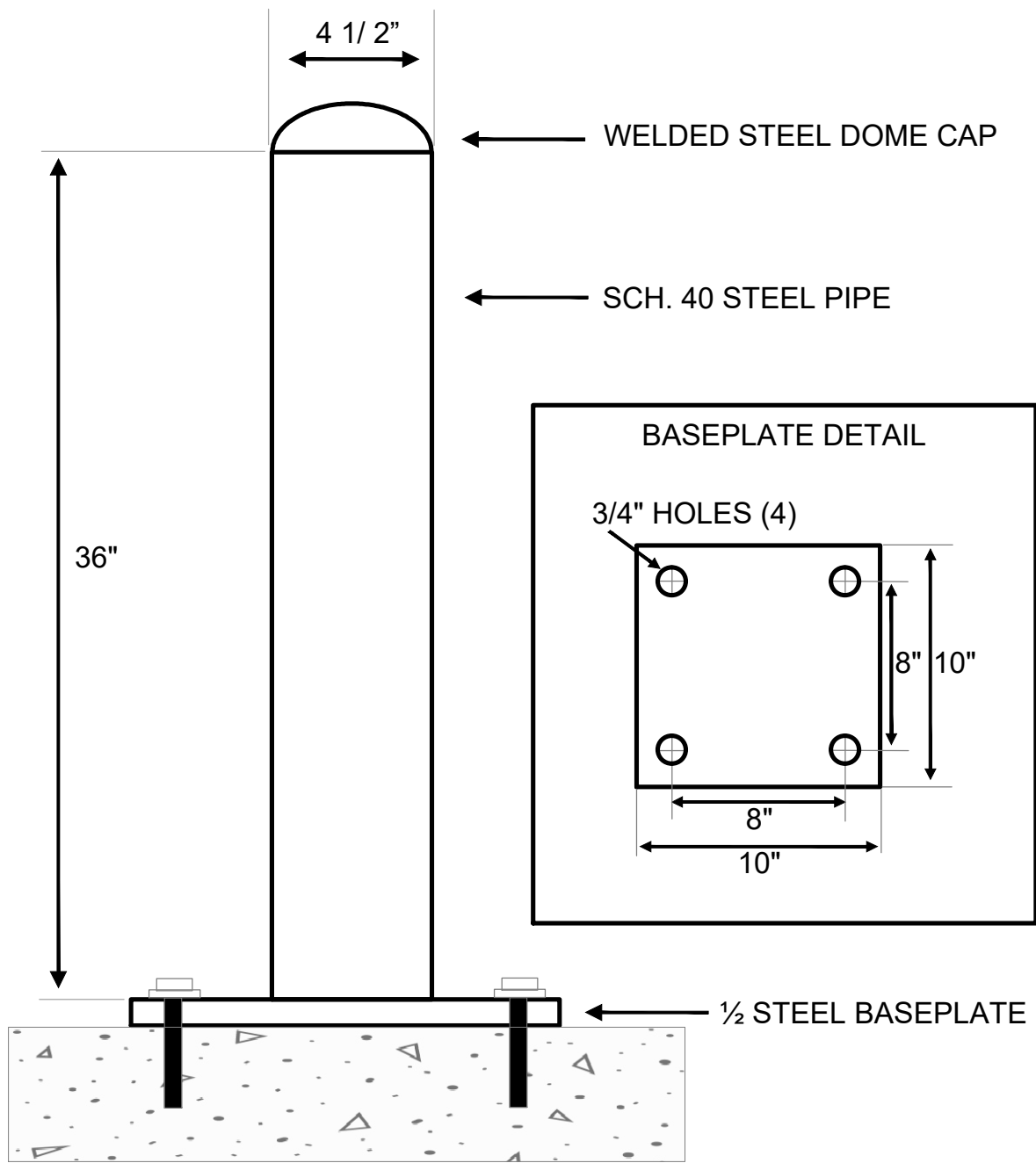
C2

REVISION:

2

N.T.S.

4" Bolt-Down Bollard, 36"Height



ITEM NUMBER: SMB4X36(PP)

 **RECOMMENDED ANCHOR:**
CONCRETE WITH 5/8"X6"
WEDGE ANCHOR BOLTS

PREPARED FOR:



PREPARED BY:

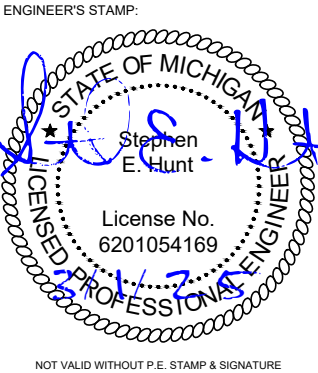


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COUNTY:	WAYNE
LATITUDE:	42° 21' 7.164" N
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DESIGN TYPE:	RAWLAND

SHEET TITLE:	BOLLARD DETAIL
--------------	----------------

DRAWING NO.	REVISION:
C2A	2

POLE ATTACHED EQUIPMENT	
EQUIPMENT	VOLUME (CU-FT)
1672 ANTENNA	0.62
1672 ANTENNA	0.62
1672 ANTENNA	0.62
COMMSCOPE NNV4S4-360S-F2	2.60
TOTAL IN CU-FT	4.46

POLE ANCILLARY EQUIPMENT	
EQUIPMENT	VOLUME (CU-FT)
12 POSITION PANEL	0.80
DISCONNECT	0.57
CFIT BOX	0.60
ERICSSON 4890 RRU	1.07
6308 PSU	0.63
TOTAL IN CU-FT	3.67

PREPARED FOR:



PREPARED BY:



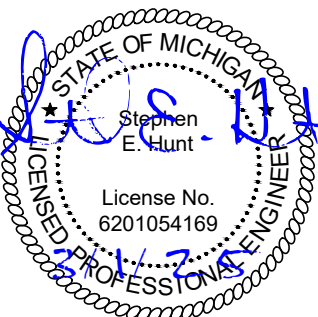
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42° 21' 7.164" N

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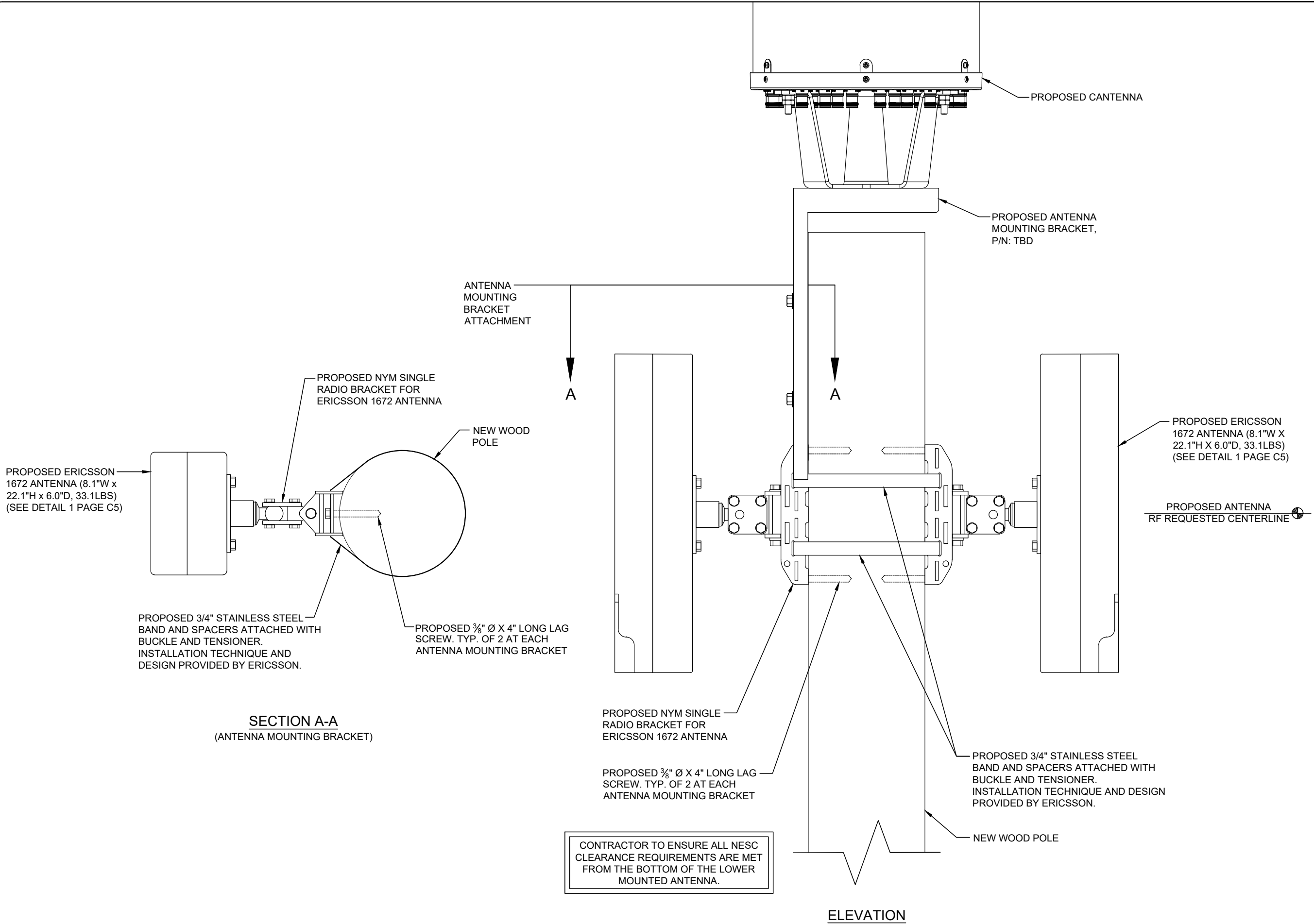
DESIGN TYPE:

RAWLAND

SHEET TITLE:

SITE DETAILS

DRAWING NO.	REVISION:
C3	2



PREPARED FOR:



PREPARED BY:

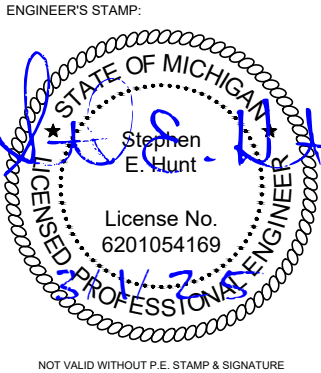


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DESIGN TYPE:	RAWLAND

SHEET TITLE:
SITE DETAILS

DRAWING NO. C4	REVISION: 2
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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

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

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

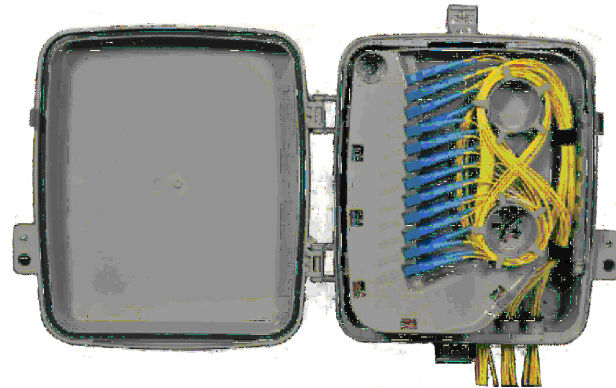
2023-01-09 | Commercial In Confidence | Page 53

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:

verizon

PREPARED BY:

TeleCAD
Wireless

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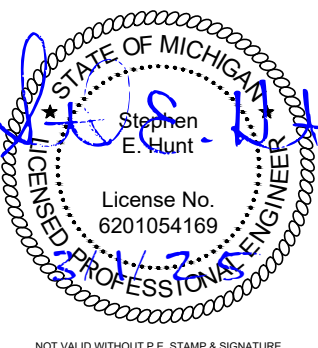
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DESIGN TYPE:	RAWLAND

SHEET TITLE:
EQUIPMENT DETAILS

DRAWING NO.	REVISION:
C5	2

1 ERICSSON 1672 ANTENNA

N.T.S.

2 C-FIT

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
wo 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)	

- 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

2023-03-29 | Commercial In Confidence | Page 1

Pending Commercial Agreements



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

3.1 Technical Data Summary

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

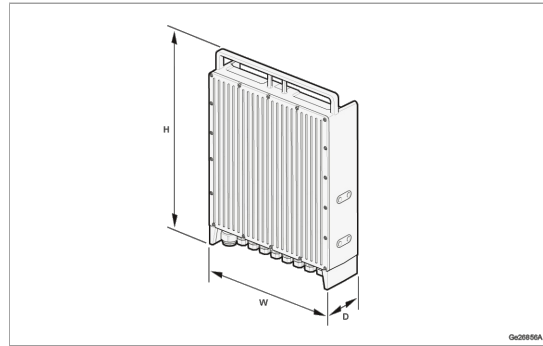


Figure 1 Unit Dimensions

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 6308	14 kg
Color	Value
Gray	NCS S 1002-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.

3 ERICSSON 4890 RRU

N.T.S.

4 ERICSSON 6308 PSU

N.T.S.

NNV4S4-360S-F2



20-port small cell antenna, 4x 698-896, 8x 1695–2690, 8x 3300-4200, 360° Horizontal Beamwidth, fixed tilt.

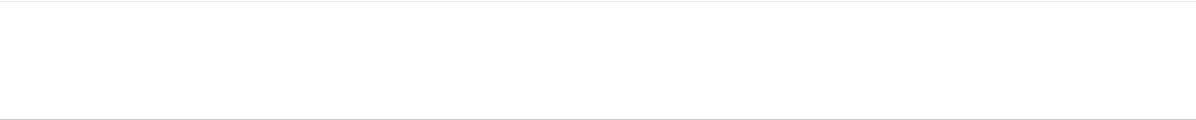
General Specifications

Antenna Type	Omni
Band	Multiband
Color	Light Gray (RAL 7035)
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage
Radome Material	ASA
Radiator Material	Aluminum Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, high band	8
RF Connector Quantity, mid band	8
RF Connector Quantity, low band	4
RF Connector Quantity, total	20

Dimensions

Length	610 mm 24.016 in
Net Weight, antenna only	14.6 kg 32.187 lb
Outer Diameter	370 mm 14.567 in

Port Configuration



Page 1 of 4

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NNV4S4-360S-F2



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz 3300 – 4200 MHz 698 – 896 MHz
Polarization	±45°
Total Input Power, maximum	900 W @ 50 °C

Electrical Specifications

	R1,R2	R1,R2	Y1-Y4	Y1-Y4	Y1-Y4	Y1-Y4	P1-P4	P1-P4	P1-P4
Frequency Band, MHz	698–806	806–896	1695–1920	1920–2180	2300–2360	2360–2690	3300–3550	3550–3700	3700–4200
RF Port	1~4	1~4	5~12	5~12	5~12	5~12	13~20	13~20	13~20
Gain, dBi	4.9	5.2	7.4	8.3	8.7	8.9	6.3	6.3	6.2
Beamwidth, Horizontal,	360	360	360	360	360	360	360	360	360

Page 2 of 4

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PREPARED FOR:

verizon

PREPARED BY:

TeleCAD
Wireless

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ENGINEER'S STAMP:

STATE OF MICHIGAN

Stephen E. Hunt

License No. 6201054169

PROFESSIONAL ENGINEER

NOT VALID WITHOUT P.E. STAMP & SIGNATURE

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COUNTY:	WAYNE
LATITUDE:	42° 21' 7.164" N
LONGITUDE:	83° 7' 16.824" W
DESIGN TYPE:	RAWLAND

SHEET TITLE:
EQUIPMENT DETAILS

DRAWING NO.	REVISION:
C6	2

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.

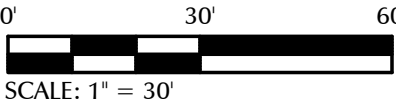
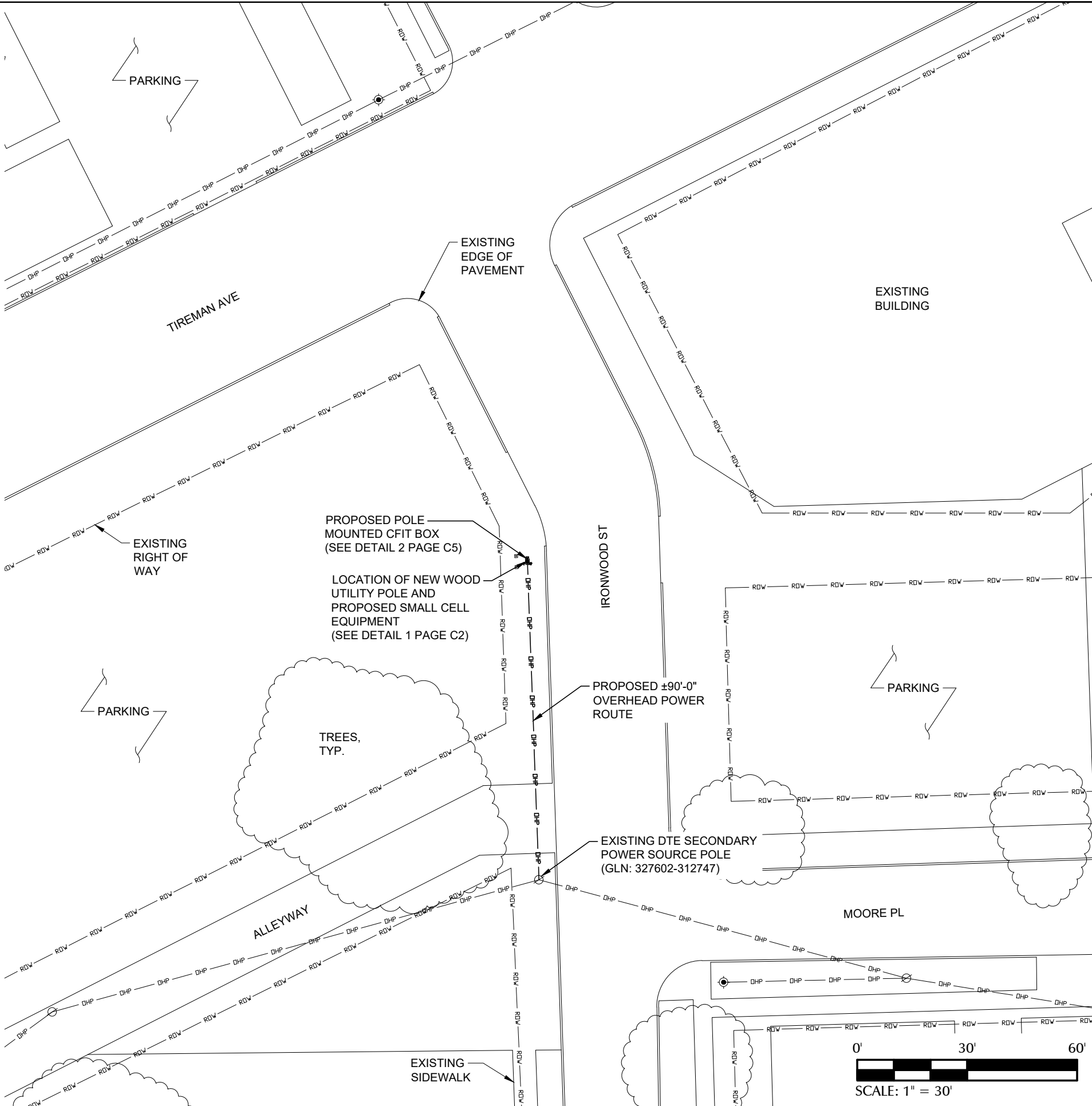
UTILITY NOTES:

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

STANDARD POWER SUPPLY FOR THE SMALL CELL NODES IS A 100 AMP 120/208 OR 240 VOLT SINGLE PHASE SERVICE

WIRE SIZE	ALUMINUM		COPPER		CONDUIT SIZE
	208V	240V	208V	240V	
3 AWG	85'	100'	130'	155'	1 1/4" MIN
2 AWG	105'	120'	170'	200'	1 1/4" MIN
1 AWG	130'	150'	210'	240'	1 1/2" MIN
1/0 AWG	150'	170'	240'	280'	1 1/2" MIN
2/0 AWG	190'	220'	290'	330'	1 1/2" MIN
3/0 AWG	230'	265'	355'	410'	2" MIN
4/0 AWG	265'	310'	425'	490'	2" MIN
250 KCMIL	315'	365'	480'	555'	2 1/2" MIN
300 KCMIL	360'	415'	540'	625'	2 1/2" MIN
350 KCMIL	405'	470'	605'	700'	2 1/2" MIN
400 KCMIL	440'	510'	660'	760'	3" MIN
500 KCMIL	520'	600'	755'	870'	3" MIN

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



PREPARED FOR:



PREPARED BY:

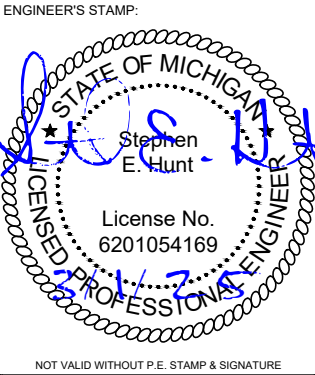


1961 NORTHPOINT BLVD, SUITE 130
HIXSON, TN 37343
PH: 423-843-9500
FAX: 423-843-9509

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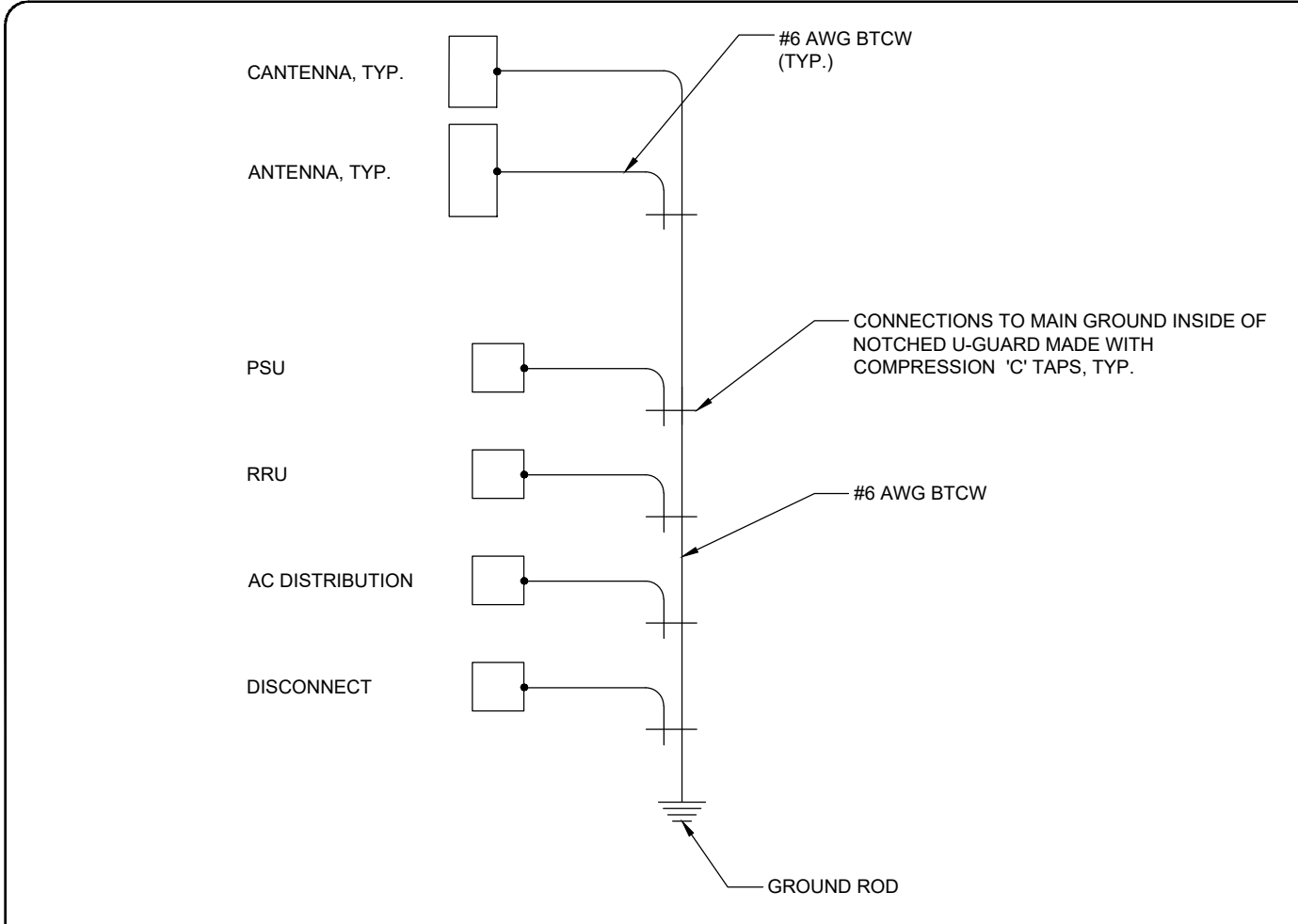
DRAWN BY:	JAF
CHECKED BY:	SEH

REVISIONS			
2	03/01/25	ZCK	CONSTRUCTION ISSUE
1	01/17/25	ZCK	CONSTRUCTION ISSUE
0	12/20/24	JAF	CONSTRUCTION ISSUE
A	11/15/24	JAF	PRELIMINARY REVIEW
NO.	DATE	BY	DESCRIPTION



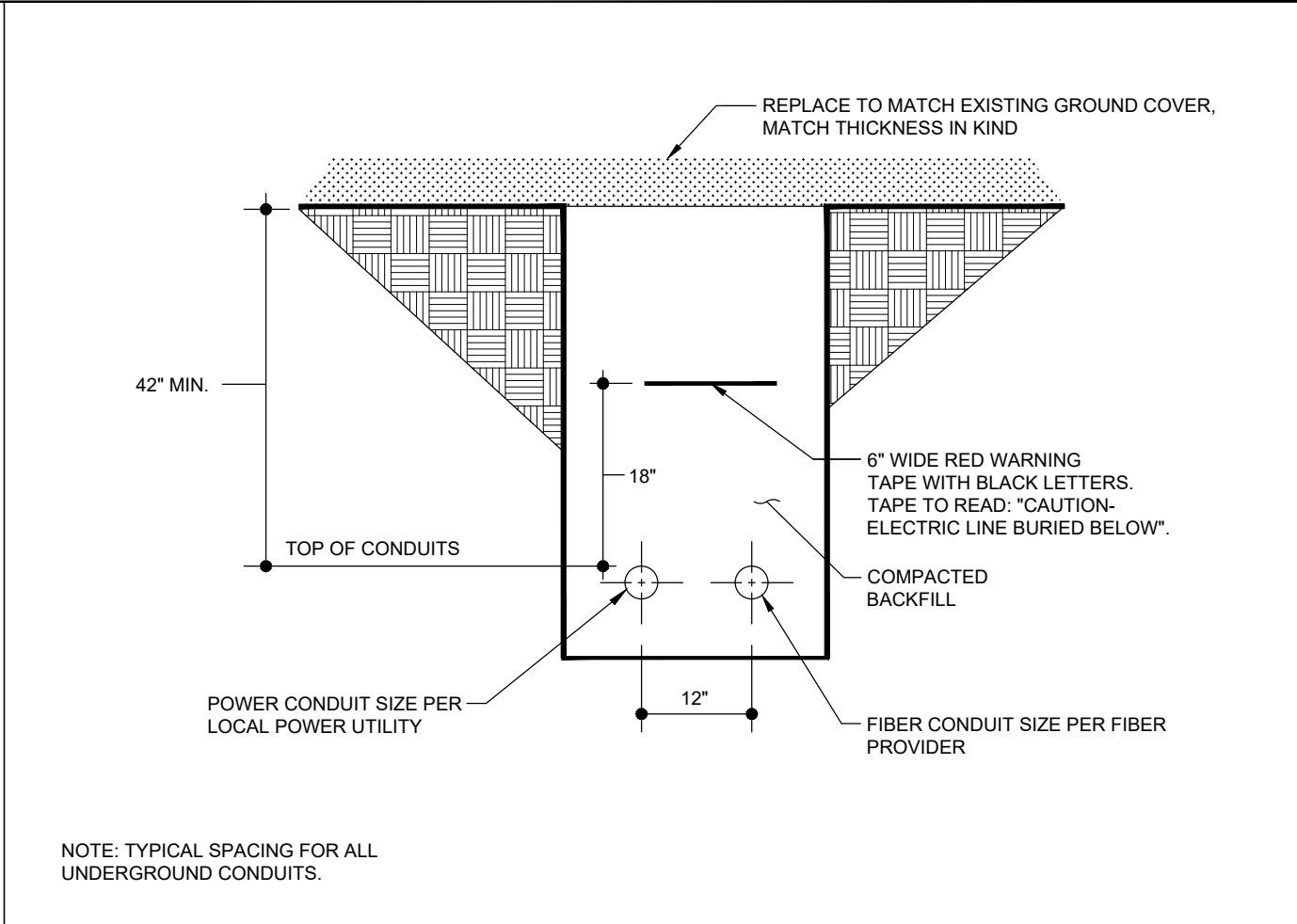
SITE NAME:	24265
ADDRESS:	5207 TIREMAN AVE DETROIT, MI 48204
COUNTY:	WAYNE
LATITUDE:	42° 21' 7.164" N
LONGITUDE:	83° 7' 16.824" W
DESIGN TYPE:	RAWLAND

SHEET TITLE: UTILITY SITE PLAN	
DRAWING NO. E1	REVISION: 2



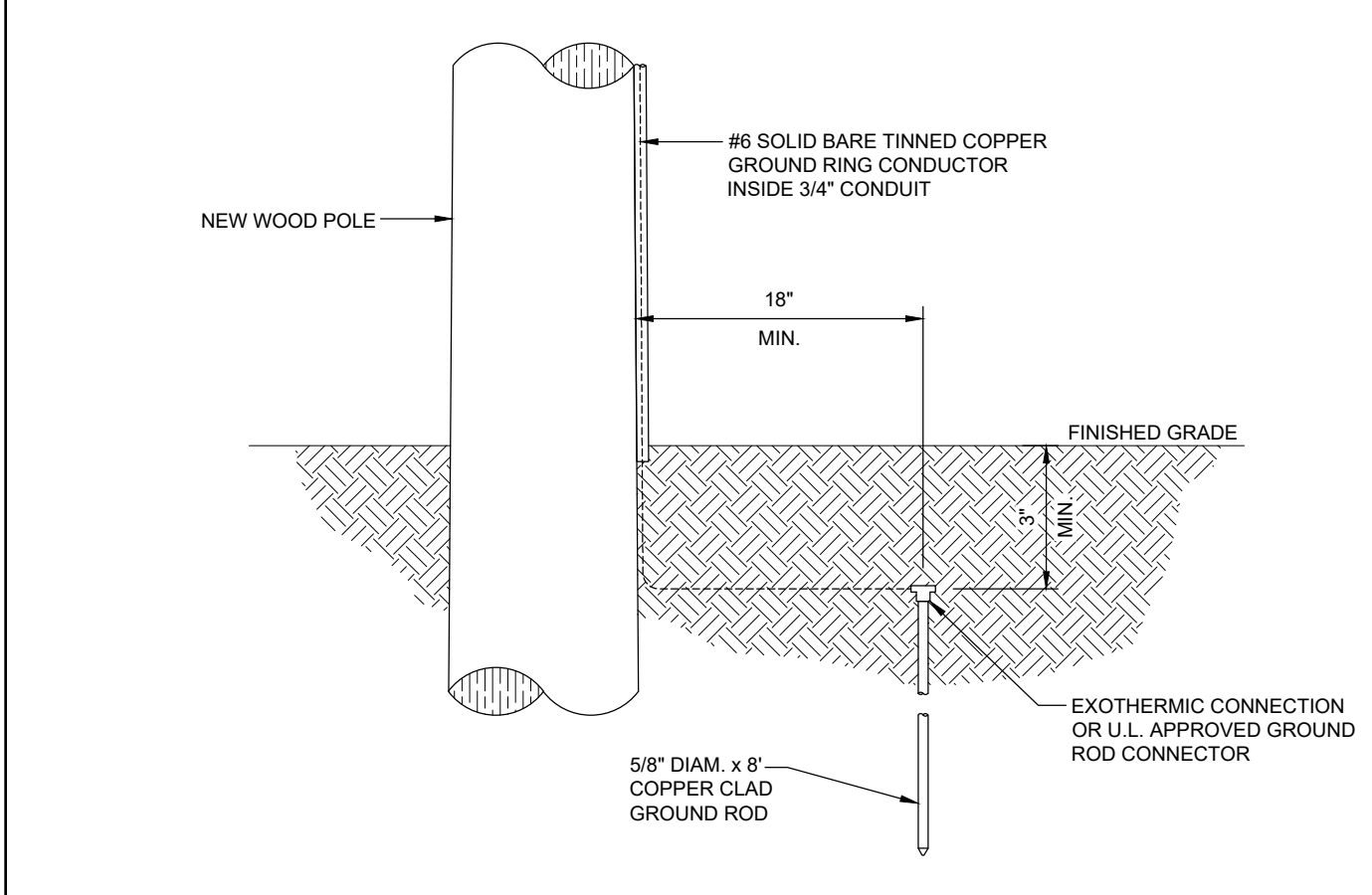
1 SINGLE POINT RADIAL GROUND DETAIL

N.T.S.



2 TRENCH DETAIL (IF REQUIRED)

N.T.S.



3 GROUND ROD DETAIL

N.T.S.



4 DETAIL NOT IN USE

PREPARED FOR:

PREPARED BY:

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HIXSON, TN 37343
PH: 423-843-9500
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REVISIONS			
NO.	DATE	BY	DESCRIPTION
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1	01/17/25	ZCK	CONSTRUCTION ISSUE
0	12/20/24	JAF	CONSTRUCTION ISSUE
A	11/15/24	JAF	PRELIMINARY REVIEW

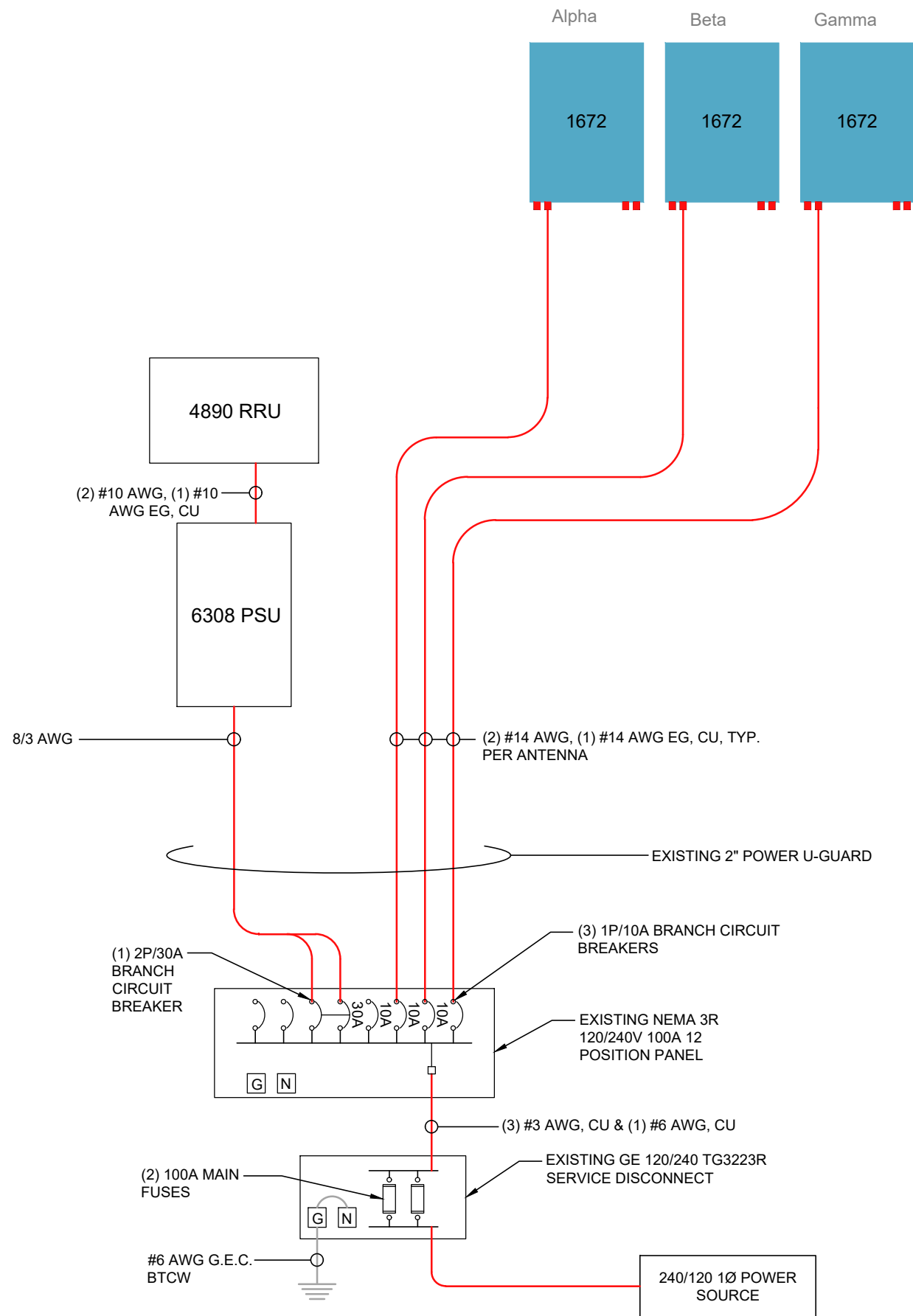
ENGINEER'S STAMP:

SITE NAME:	24265
ADDRESS:	5207 TIREMAN AVE DETROIT, MI 48204
COUNTY:	WAYNE
LATITUDE:	42° 21' 7.164" N
LONGITUDE:	83° 7' 16.824" W
DESIGN TYPE:	RAWLAND

SHEET TITLE:

ELECTRICAL DETAILS

DRAWING NO.	REVISION:
E2	2



PREPARED FOR:



PREPARED BY:

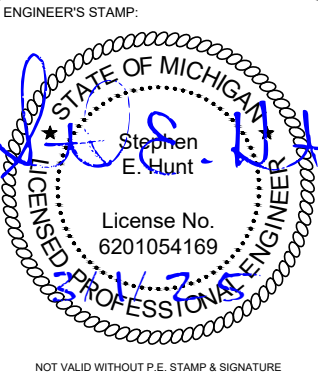


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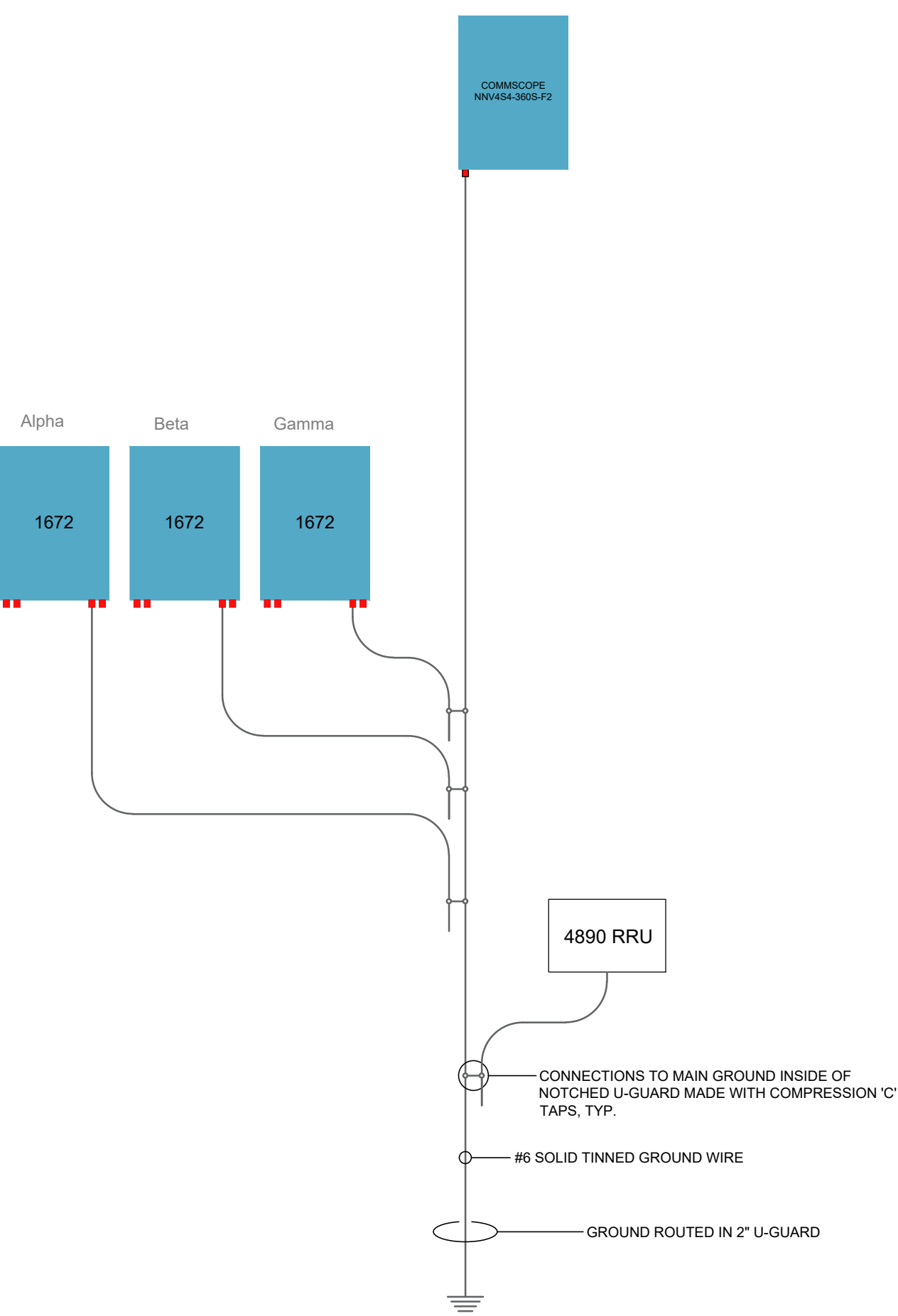
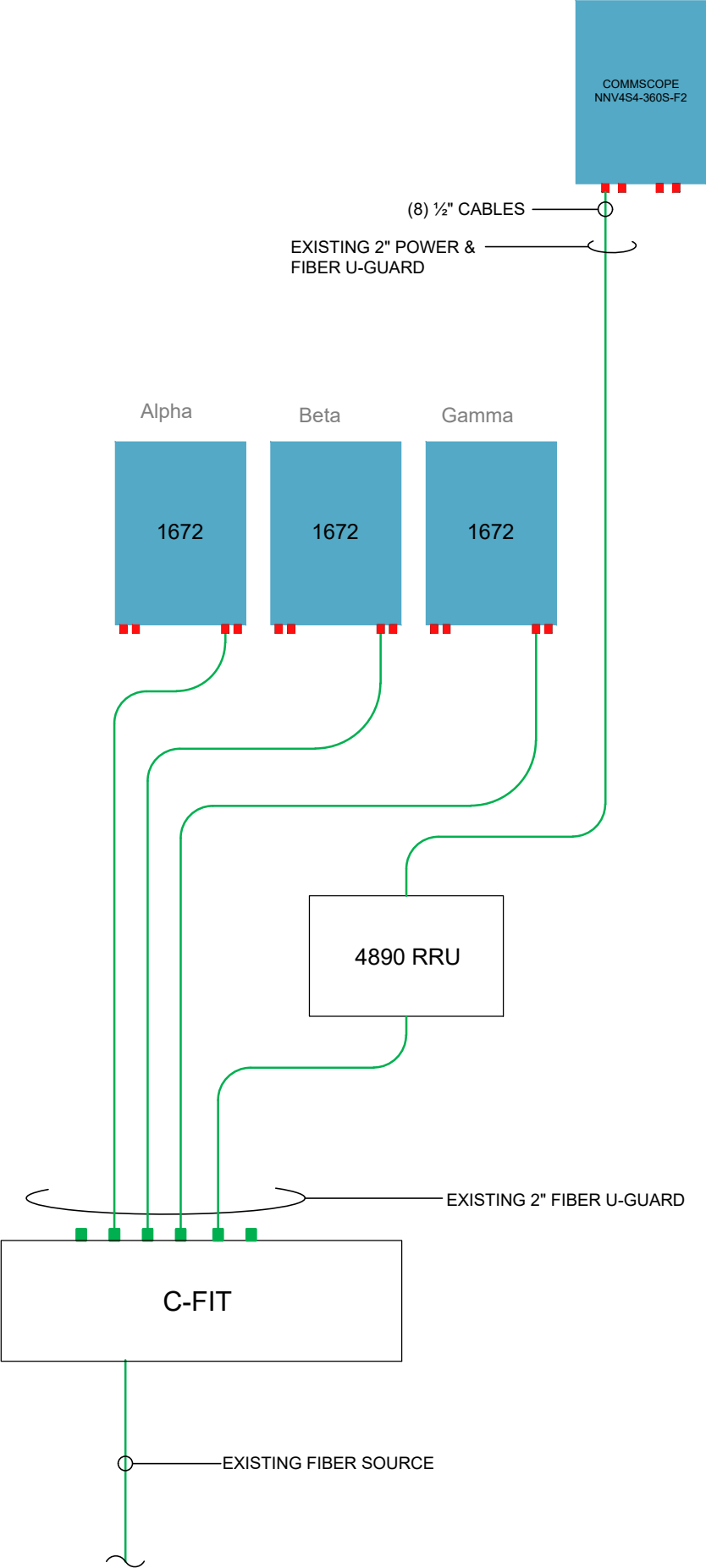
REVISIONS			
NO.	DATE	BY	DESCRIPTION
2	03/01/25	ZCK	CONSTRUCTION ISSUE
1	01/17/25	ZCK	CONSTRUCTION ISSUE
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A	11/15/24	JAF	PRELIMINARY REVIEW



SITE NAME: 24265
ADDRESS: 5207 TIREMAN AVE
DETROIT, MI 48204
COUNTY: WAYNE
LATITUDE: 42° 21' 7.164" N
LONGITUDE: 83° 7' 16.824" W
DESIGN TYPE: RAWLAND

SHEET TITLE:
SINGLE LINE DIAGRAM

DRAWING NO. E3
REVISION: 2



PREPARED FOR:



PREPARED BY:

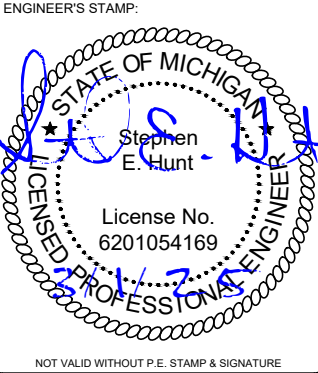


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DRAWN BY:	JAF
CHECKED BY:	SEH

REVISIONS			
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0	12/20/24	JAF	CONSTRUCTION ISSUE
A	11/15/24	JAF	PRELIMINARY REVIEW
NO.	DATE	BY	DESCRIPTION



SITE NAME: 24265
ADDRESS: 5207 TIREMAN AVE
DETROIT, MI 48204
COUNTY: WAYNE
LATITUDE: 42° 21' 7.164" N
LONGITUDE: 83° 7' 16.824" W
DESIGN TYPE: RAWLAND

SHEET TITLE:
SINGLE LINE DIAGRAM

DRAWING NO. E3A	REVISION: 2
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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

WRITTEN ACCEPTANCE OF THE TERMS AND CONDITIONS OF
DETROIT CITY COUNCIL RESOLUTION
PETITION NUMBER, ADOPTED

David Haslinger, whose address is
24242 Northwestern Hwy

(hereinafter referred to as the "Permittee") do hereby accept the terms and conditions of the City Council Resolution granting Petition Number , and agrees to comply with its requirements; and further, that pursuant to the said Resolution, Permittee does hereby agree to defend, indemnify and save harmless the City of Detroit from any and all claims, liabilities, obligations, penalties, costs, charges, demands, losses, damages, or expenses (including without limitation, fees, and expenses of attorneys, expert witness and other consultants) that may be imposed upon, incurred by or asserted against the City of Detroit or its departments, officers, employees, or agents by reason of the issuance of said permit(s), or the performance or non-performance by the Permittee of the terms of the permit(s) hereof, or that may rise out of its activities described in said Resolution by Permittee and its personnel, agents, representatives and employees.

Permittee agrees to waive, release and discharge the City of Detroit or its departments, officers, employees, or agents from any and all liability, claims, demands, and causes of action whatsoever, legal and equitable, because of damages, losses, or injuries to Permittee or Permittee's property or both, arising from or related to Permittee's activities described in said Resolution. Permittee agrees and covenants not to sue the City of Detroit or its departments, officers, employees, or agents, and to refrain from instituting, continuing, presenting, subrogating, collecting or in any way aiding or proceeding upon any claims, judgments, debts, causes of action, suits and proceedings of any kind at law or in equity arising from or related to Permittee's activities described in said Resolution.

Date March 20, 2025

Permittee Signature: [Signature]