

## PROJECT SUMMARY

SITE NAME:	GN INDY 1092	
SITE ADDRESS: (E-911 VERIFIED)	298 HILLENDALE DR GREENWOOD, IN 46142	
COUNTY:	JOHNSON	
JURISDICTION:	GREENWOOD	
<u>SITE COORDINATES:</u>	<u>1A</u>	
LATITUDE:	39° 37' 3.180" N	(NAD 83)
LATITUDE:	39.61755°	
LONGITUDE:	86° 10' 44.832" W	(NAD 83)
LONGITUDE:	-86.17912°	
ELEVATION:	±705'-9"	(NAVD 88)

PROPERTY DEFINITION:	R.O.W.
FUZE PROJECT ID:	16042229
PSLC CODE:	604428
EXISTING POLE HEIGHT:	N/A
PROPOSED POLE HEIGHT:	43'-0"
PROPOSED POLE CLASS:	N/A
HIGHEST APPURTENANCE:	43'-0"
STRUCTURE OWNER:	VERIZON
STRUCTURE TYPE:	NEW METAL(BLACK RAL9004) MODEL: 178 UTILITY
ENVIRONMENTAL REQ. :	N/A

## PROJECT DESCRIPTION

THESE DRAWINGS DEPICT A PORTION OF A PROPOSED SMALL CELL NETWORK BUILD INVOLVING INSTALLATION OF A NEW METAL (BLACK RAL9004) MODEL: 178 VERIZON OWNED UTILITY POLE, SETTING AN ANTENNA (OR ANTENNAS) ATOP THE POLE AND INSTALLING POLE MOUNTED EQUIPMENT ON THE POLE.

## STRUCTURAL REVIEW

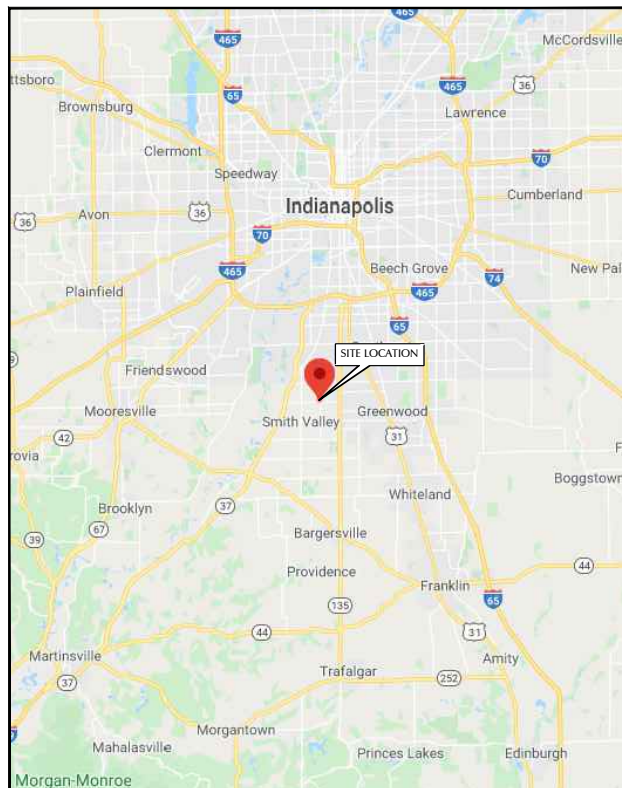
STRUCTURAL ANALYSIS PERFORMED BY OTHERS.



SITE NAME: GN INDY 1092

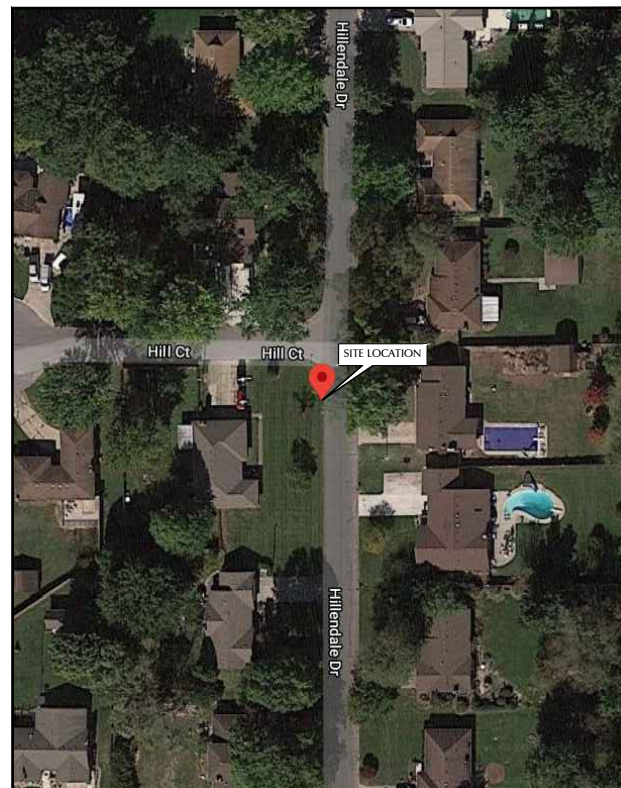
298 HILLENDALE DR  
GREENWOOD, IN 46142

## VICINITY MAP



NOT TO SCALE

## LOCATION MAP



NOT TO SCALE



**1 (800) 382-5544**  
[www.indiana811.com](http://www.indiana811.com)  
 CONTRACTOR TO CALL INDIANA  
 ONE-CALL SYSTEMS AT LEAST (2) WORKING  
 DAYS PRIOR TO DIGGING.

## SHEET INDEX

NO.	DESCRIPTION
T1	TITLE SHEET
GN1	GENERAL NOTES
C1	SITE LAYOUTS
C1A	SITE LAYOUT - AERIAL IMAGERY
C2	POLE ELEVATION
C3	ANTENNA LAYOUT
C4	SITE DETAILS
C5	SITE DETAILS
C6	EQUIPMENT DETAILS
E1	UTILITY SITE PLAN
E2	ELECTRICAL DETAILS
E3	SINGLE LINE DIAGRAM
S1	FOUNDATION DESIGN
S2	FOUNDATION DESIGN
S3	FOUNDATION DESIGN
S4	FOUNDATION DESIGN

## SCOPE OF WORK

- INSTALLING NEW METAL(BLACK RAL9004) MODEL: 178 UTILITY POLE
- INSTALLING EQUIPMENT
  - POLE MOUNTED FIBER CABINET
  - (2) ERICSSON ANTENNAS
  - (1) FIBER & (1) POWER CABLE PER ANTENNA
  - POWER METER & DISCONNECT
- RUN CONDUITS FOR POWER AND FIBER

## STATE COUNTY MAP



PREPARED FOR:



PREPARED BY:



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

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STC

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CTD

## REVISIONS

D	03/09/22	BRP	PRELIMINARY REVIEW
C	07/15/21	STC	PRELIMINARY REVIEW
B	03/22/21	BRP	PRELIMINARY REVIEW
A	02/26/20	BRP	PRELIMINARY REVIEW
NO.	DATE	BY	DESCRIPTION

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COUNTY: JOHNSON

LATITUDE: 39° 37' 3 180" N

LONGITUDE: 86° 10' 44.832" W

DESIGN TYPE:  
RAWLAND

SHEET TITLE:

TITLE SHEET

DRAWING NO.

T1

REVISION:

D

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: 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. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE AND ADDITIONAL DRAWINGS OR REQUIREMENTS FOR EACH BASE, INCLUDING ANY REQUIRED DESIGNATIONS IN THE TITLE BLOCK TO INDICATE THE SUBMITTAL OR PERMIT NUMBER.
3. 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.
4. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR 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. GC TO REMOVE / CLEAN ALL DEBRIS, NAILS, STAPLES, OR NON-USED VERTICALS OFF THE EXISTING POLE.
3. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH FEDERAL STANDARDS AND REGULATIONS AS WELL AS NEC.
4. CALL INDIANA ONE CALL AT LEAST 2 WORKING DAYS PRIOR TO EXCAVATING AT (800) 382-5544.
5. ALL LANDSCAPING TO BE RESTORED TO ORIGINAL CONDITION OR BETTER.
6. ALL EQUIPMENT TO BE BONDED.
7. 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 1-1/4" SDR-11 GRAY CONDUIT FOR UNDERGROUND POWER APPLICATIONS.
3. IF TRENCHING PLACE 1-1/4" PVC SCH 40 CONDUIT 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 46" MINIMUM COVER FOR ELECTRICAL CONDUIT.
2. MAINTAIN 46" 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 12" 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:

TeleCAD  
Wireless

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

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REVISIONS			
D	03/09/22	BRP	PRELIMINARY REVIEW
C	07/15/21	STC	PRELIMINARY REVIEW
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A	02/28/20	BRP	PRELIMINARY REVIEW
NO.	DATE	BY	DESCRIPTION

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SITE NAME:  
GN INDY 1092

ADDRESS:  
298 HILLENDALE DR  
GREENWOOD, IN 46142

COUNTY:  
JOHNSON

LATITUDE:  
39° 37' 3.180" N

LONGITUDE:  
86° 10' 44.832" W

DESIGN TYPE:  
RAWLAND

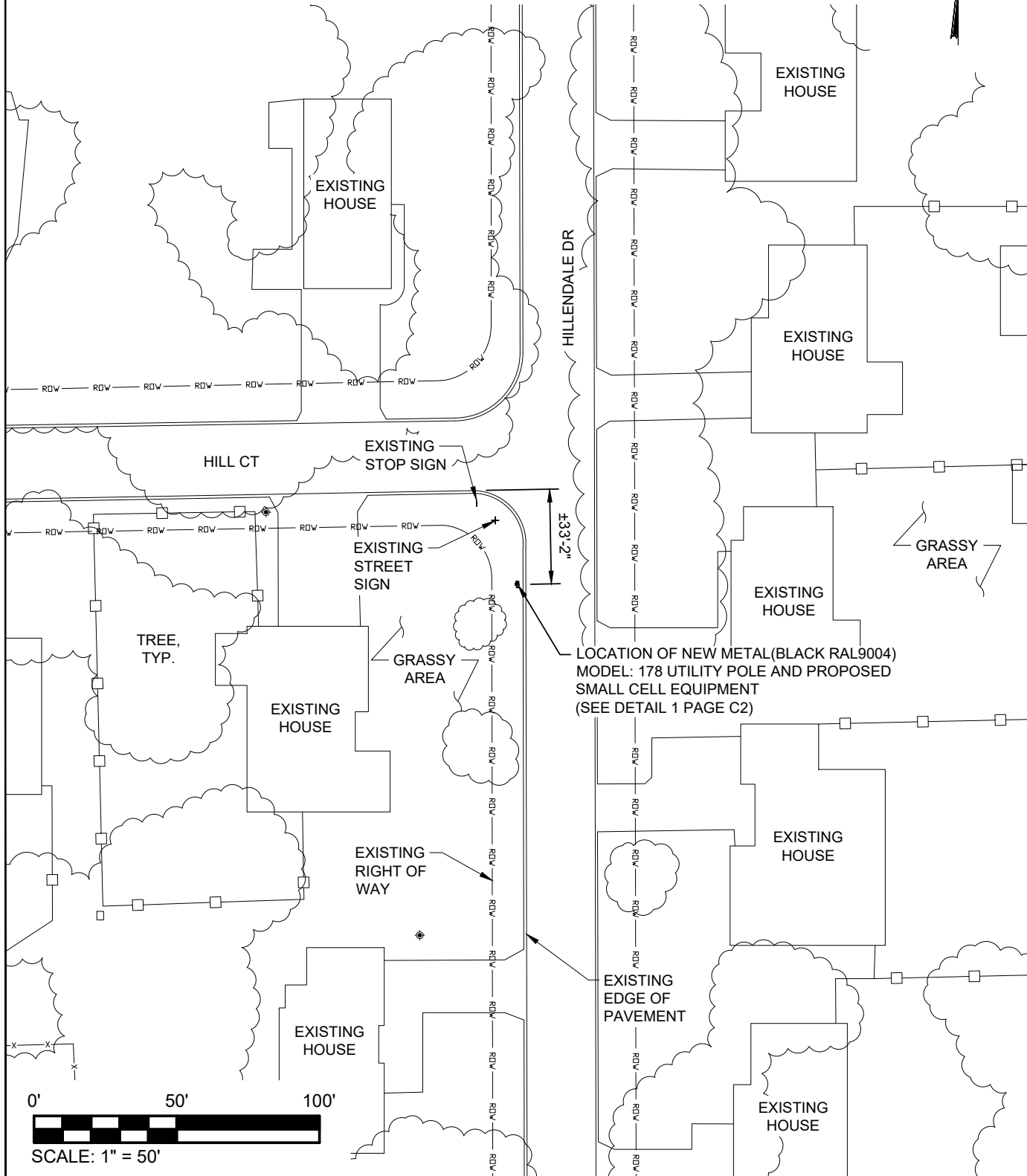
SHEET TITLE:  
GENERAL NOTES

DRAWING NO. GN1	REVISION: D
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NOTES:

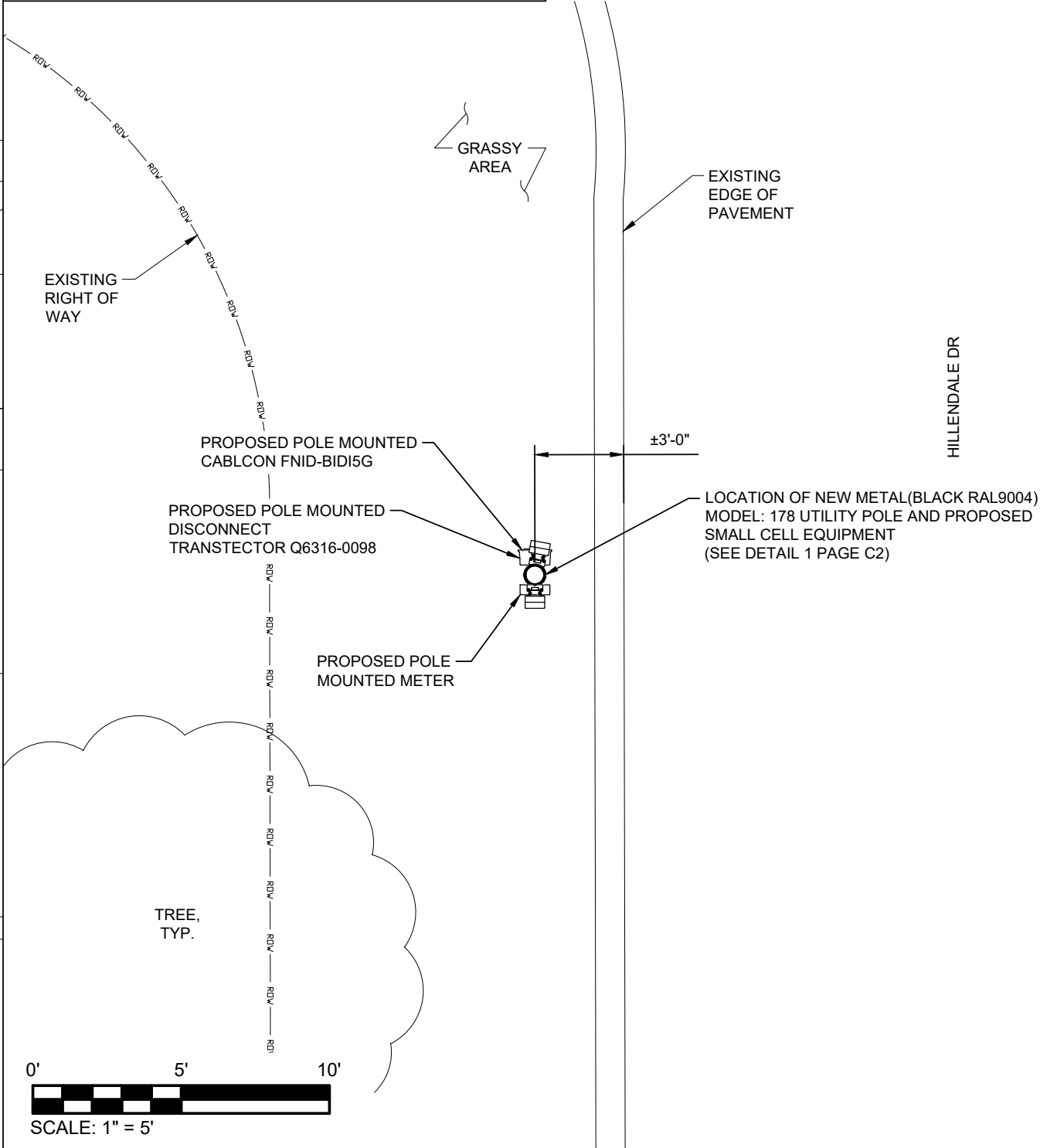
1. THIS DRAWING IS BASED ON AERIAL IMAGERY AND FIELD OBSERVATIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. THE PROPOSED USE DOES NOT REQUIRE FULL OR PART TIME EMPLOYEES AT THE SITE.
3. FOR GENERAL SITE WORK NOTES, SEE SHEET GN1.
4. ALL NORTH ARROWS ON SITE PLANS ARE TRUE NORTH, UNLESS OTHERWISE SPECIFIED.
5. OPEN CUT CONSTRUCTION THROUGH EXISTING PAVEMENT, I.E. ROADWAYS, PARKING AREAS, SIDEWALKS WILL NOT BE ALLOWED. CONSTRUCTION UNDER EXISTING PAVEMENTS WILL BE REQUIRED TO BE INSTALLED WITH DIRECTIONAL BORING TECHNIQUE.



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

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:

verizon

PREPARED BY:

TeleCAD  
Wireless

1961 NORTHPOINT BLVD, SUITE 130  
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FAX: 423-843-9509

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DESIGN TYPE:	RAWLAND

SHEET TITLE:

SITE LAYOUTS

DRAWING NO.	REVISION:
C1	D

1 OVERALL SITE LAYOUT

2 ENLARGED SITE LAYOUT





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SHEET TITLE:	SITE LAYOUT - AERIAL IMAGERY
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DRAWING NO.	REVISION:
C1A	D



CONTRACTOR TO OBTAIN  
LATEST RFDS FROM VERIZON  
PRIOR TO CONSTRUCTION.

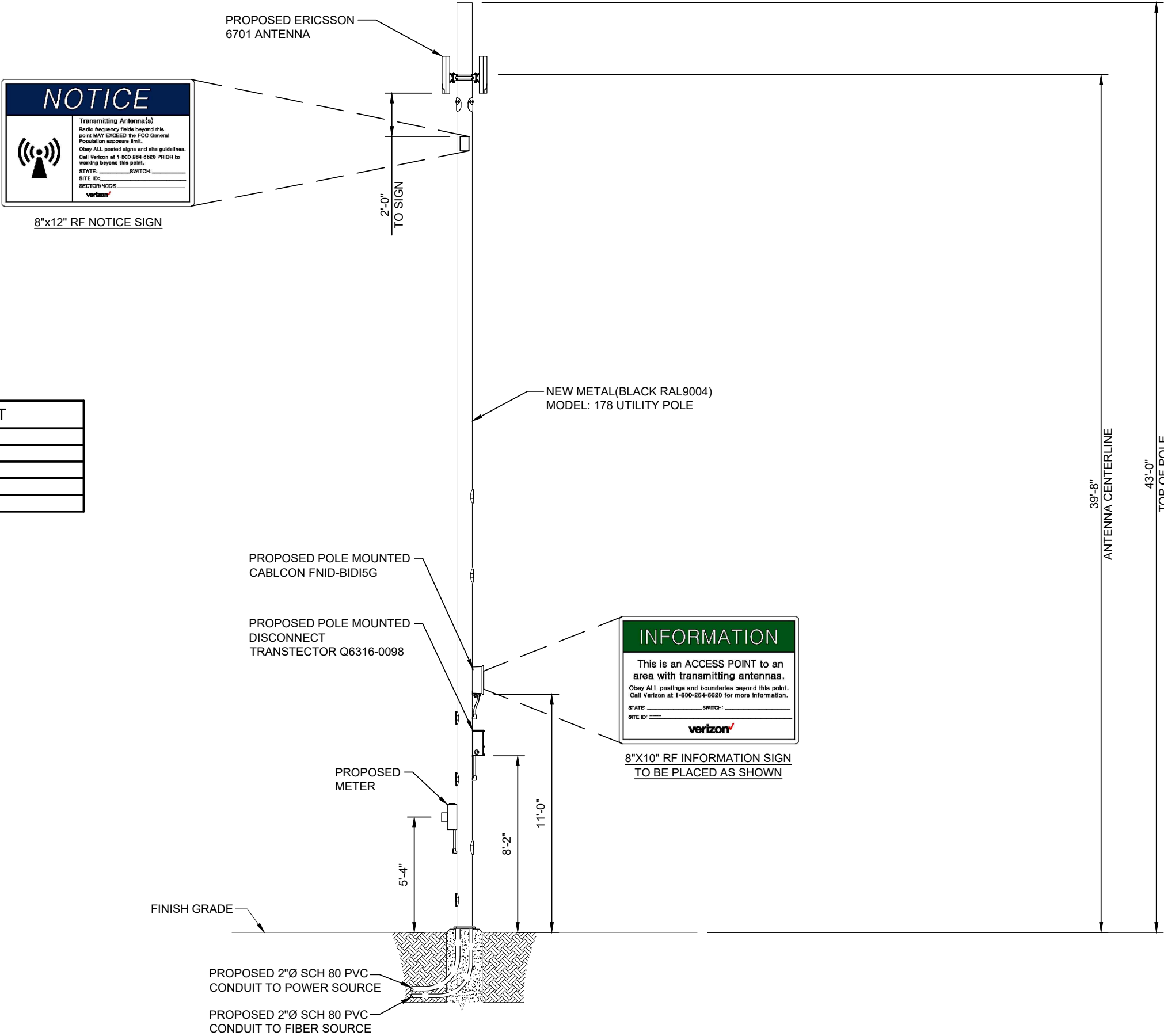
MAINTAIN A MIN. OF 3'-0"  
CLEARANCE BETWEEN  
DISCONNECT BOX AND  
ANY COMM LINES

40" MIN. CLEARANCE  
BELOW NEW TRIPLEX  
SERVICE

CONTRACTOR TO  
REINSTALL SIGNAGE  
AS REQUIRED.

METAL POLE PART# CHART	
POLE MANUFACTURER	COMPTEK
POLE MODEL	178
POLE COLOR	BLACK RAL9004
LIGHT MODEL	N/A
LIGHT ARM MODEL	N/A

CONTRACTOR TO WRAP THE  
ANTENNAS AND PAINT THE  
EQUIPMENT TO MATCH THE POLE



PREPARED FOR:

**verizon**

PREPARED BY:

**TeleCAD** Wireless

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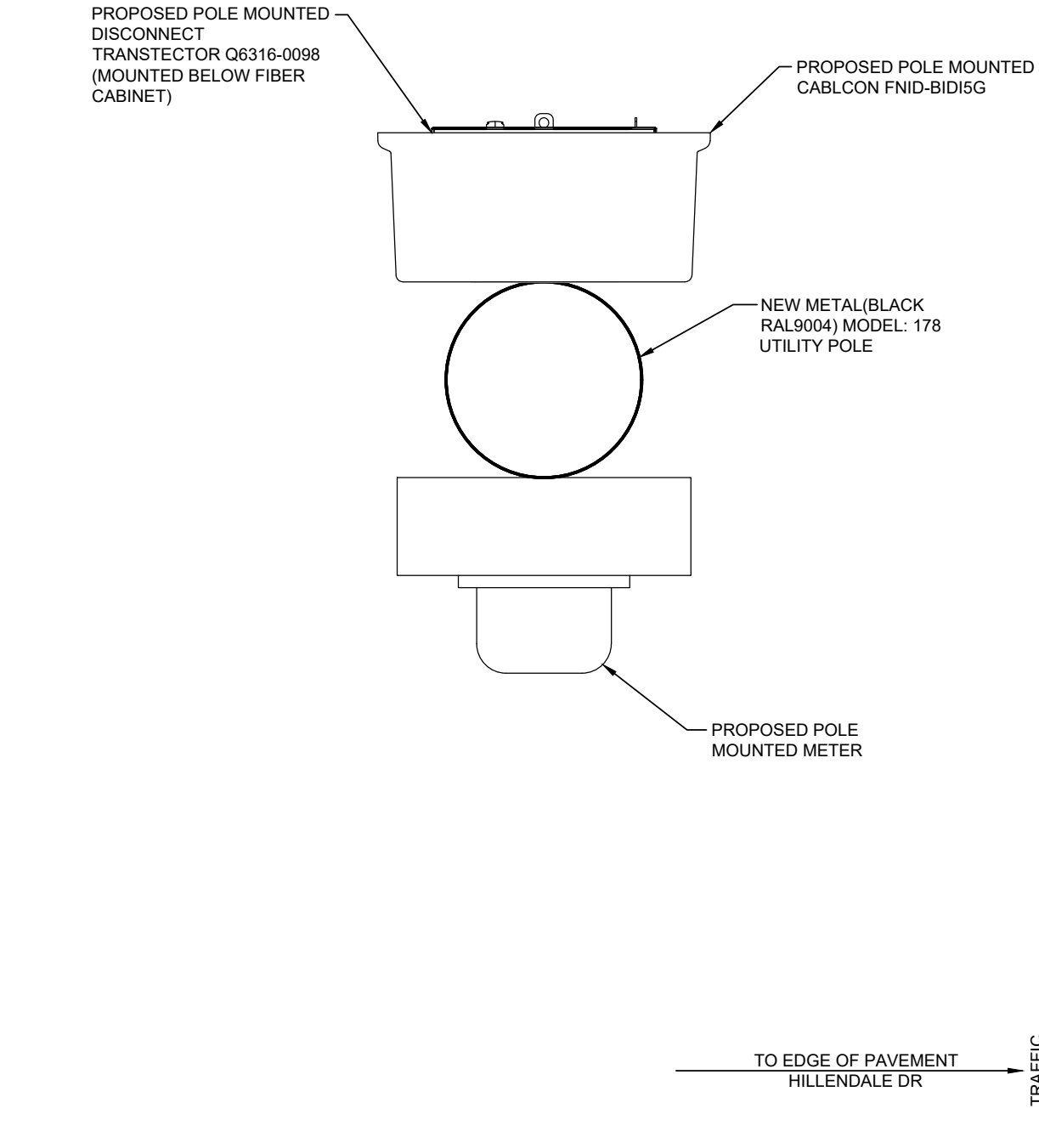
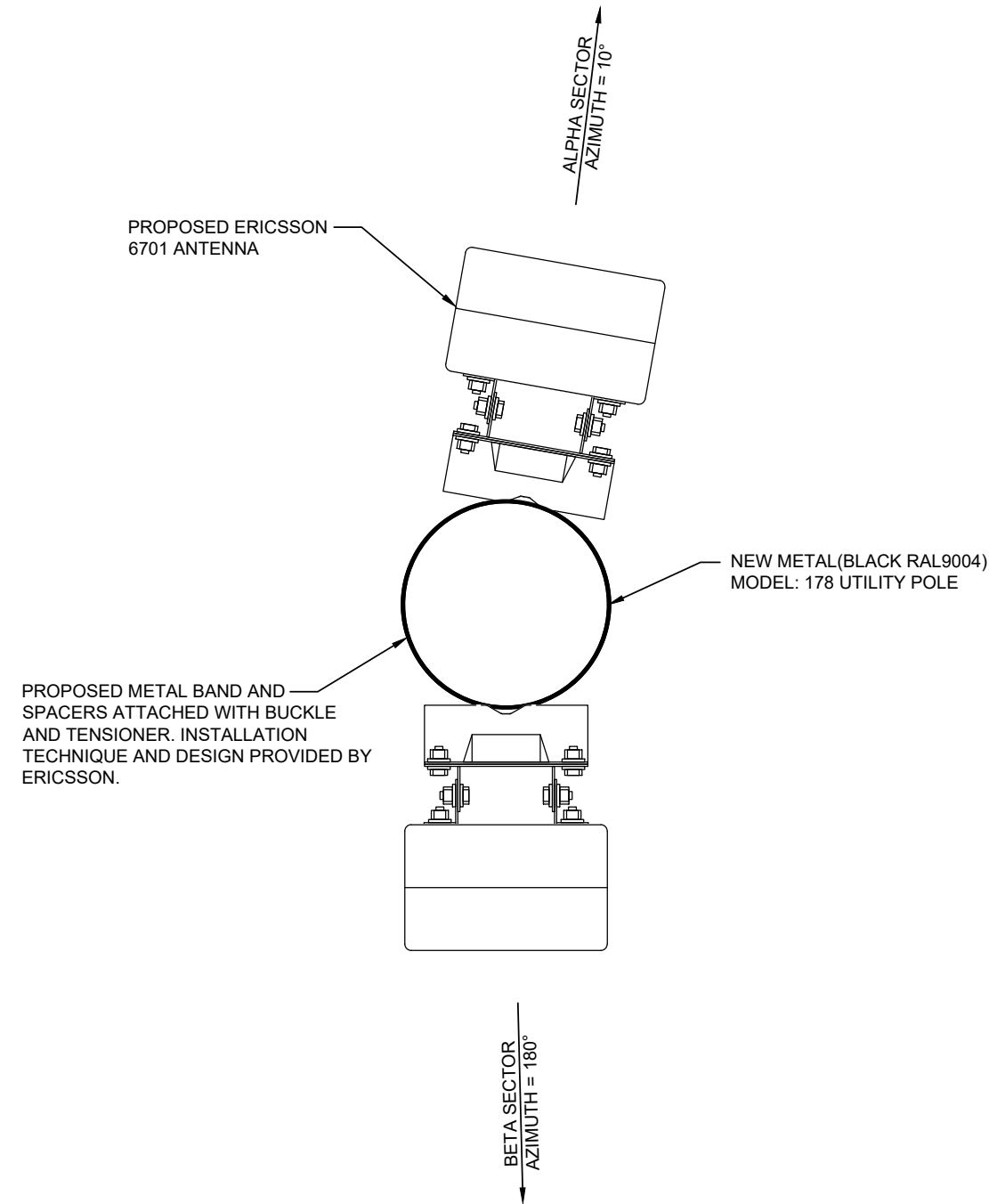
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SHEET TITLE:

**POLE ELEVATION**

DRAWING NO.	REVISION:
<b>C2</b>	<b>D</b>

AZIMUTHS ARE SUBJECT TO CHANGE.  
CONTRACTOR TO VERIFY AZIMUTHS  
FROM FINAL RFDS FROM VERIZON.  
ANTENNA MOUNT TO BE SUPPLIED  
AND INSTALLED BY ERICSSON.



PREPARED FOR:

**verizon**

PREPARED BY:

**TeleCAD**  
Wireless

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DESIGN TYPE:  
RAWLAND

SHEET TITLE:  
ANTENNA LAYOUT

DRAWING NO. <b>C3</b>	REVISION: <b>D</b>
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POLE ATTACHED EQUIPMENT	
EQUIPMENT	VOLUME (CU-FT)
ERICSSON 6701 ANTENNA	0.46
ERICSSON 6701 ANTENNA	0.46
TOTAL IN CU-FT	0.92

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C	07/15/21	STC	PRELIMINARY REVIEW
B	03/22/21	BRP	PRELIMINARY REVIEW
A	02/28/20	BRP	PRELIMINARY REVIEW
NO.	DATE	BY	DESCRIPTION

ENGINEER'S STAMP:

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SITE NAME:  
GN INDY 1092

ADDRESS:  
298 HILLENDALE DR  
GREENWOOD, IN 46142

COUNTY:  
JOHNSON

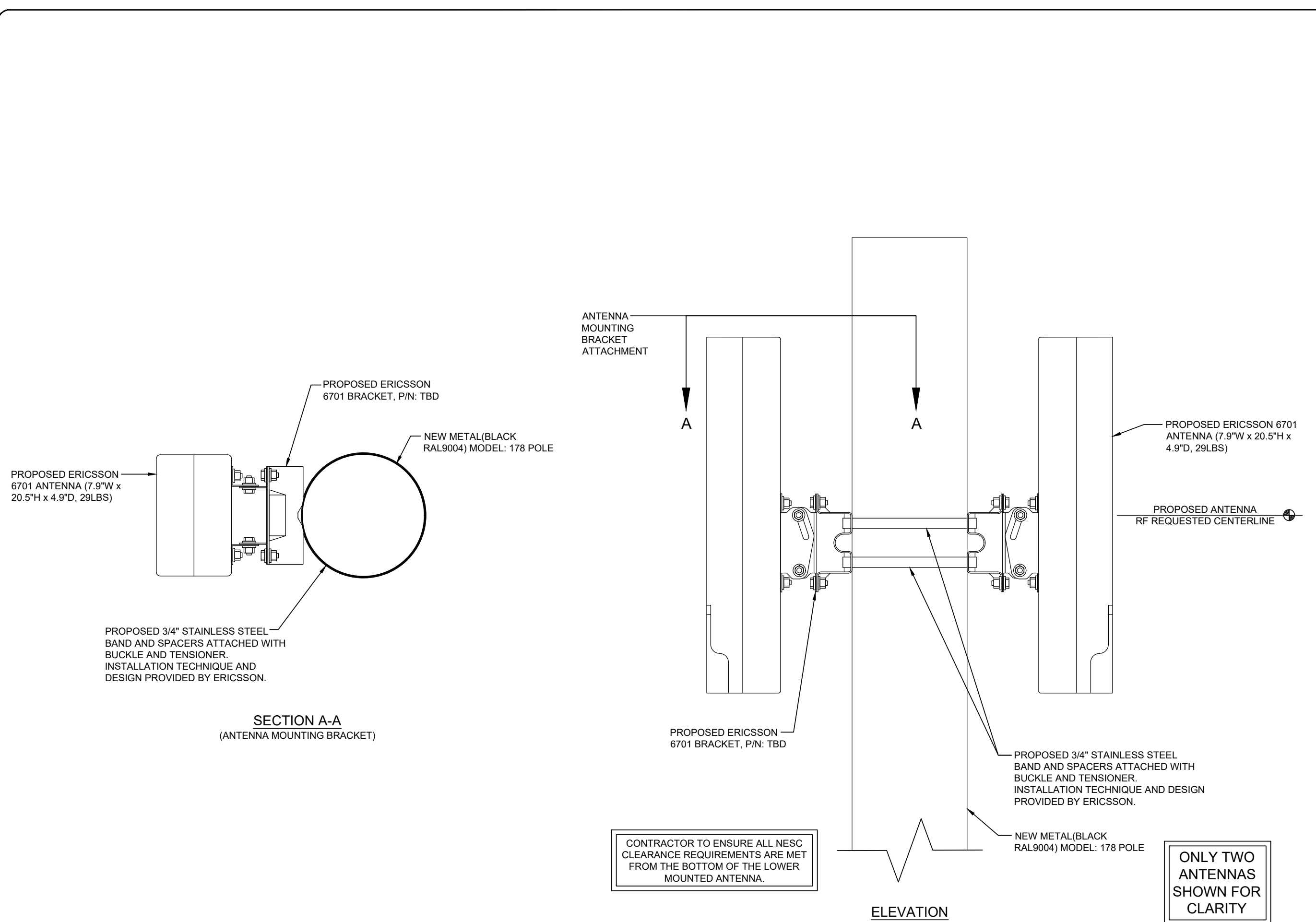
LATITUDE:  
39° 37' 3.180" N

LONGITUDE:  
86° 10' 44.832" W

DESIGN TYPE:  
RAWLAND

SHEET TITLE:  
SITE DETAILS

DRAWING NO. C4	REVISION: D
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PREPARED FOR:

PREPARED BY:

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

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GREENWOOD, IN 46142

COUNTY:

JOHNSON

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39° 37' 3.180" N

LONGITUDE:

86° 10' 44.832" W

DESIGN TYPE:

RAWLAND

SHEET TITLE:

SITE DETAILS

DRAWING NO.

C5

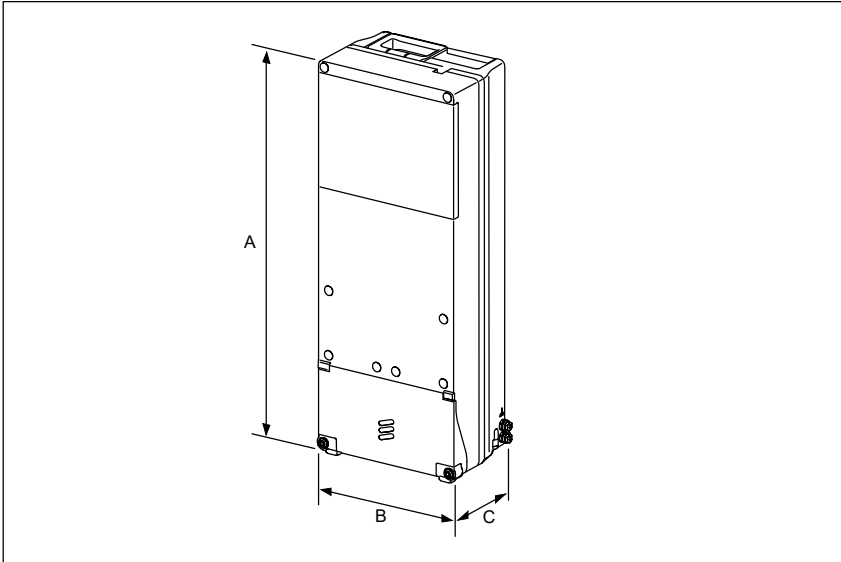
REVISION:

D



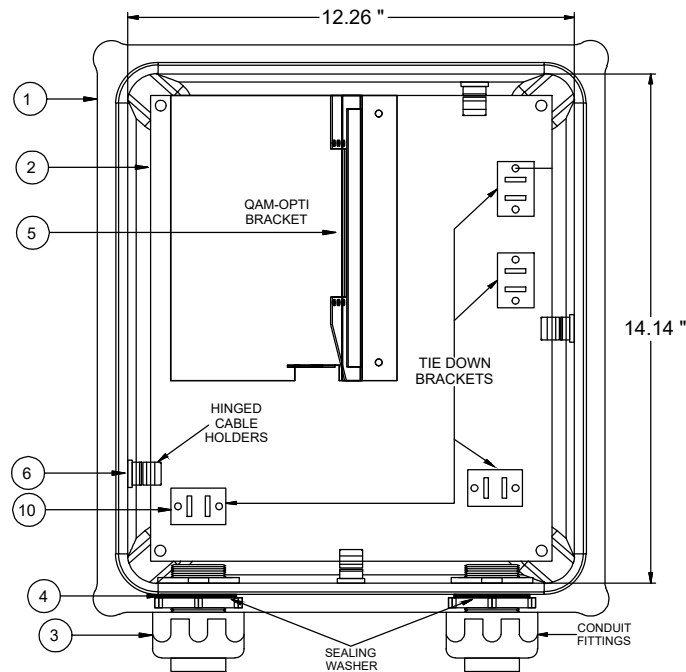
Technical Data	
Description	Value
Frequency	N261 (27.5–28.35 GHz)
Number of carriers	Config mode 2: Up to 8 Config mode 1: Up to 16
Operating bandwidth	Config mode 2: 800 MHz Config mode 1: 1600 MHz
Component carrier bandwidth	50MHz, 100 MHz
EIRP <sup>(1)</sup>	Config mode 2: 53 dBm per RF beam in boresight , 56 dBm per radio Config mode 1: 47 dBm per RF beam in boresight , 53 dBm per radio
EIS <sub>REFSENS_50M</sub>	Config mode 2: -109 dBm Config mode 1: -106 dBm

(1) The MaxTxPower can be configured up to 10 dB lower than the stated EIRP without product performance being degraded. If the MaxTxPower is configured lower than the given power limit here, significant performance degradation will occur.

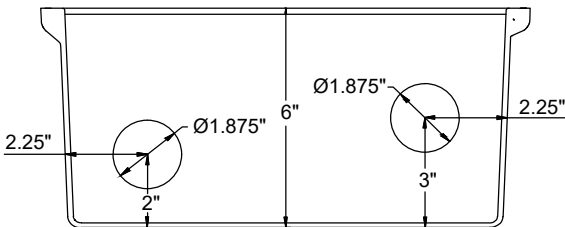


Dimensions, Weight, and Color	
Dimensions	
Height (A)	511 mm
Width (B)	200 mm
Depth (C)	125 mm
Weight	14 kg
Color	Gray Reference number: NCS S 1002-B

ASSEMBLY BILL OF MATERIALS		
ITEM	QTY	CABLCON PART NUMBER
1	1	Q6316-0026
2	1	Q6316-0001
3	2	Q6914-0340
4	2	Q6914-0365
5	1	Q6313-9934
6	4	Q6914-0309
7	10	Q9009-0229
8	29	THT-75-427-3
9	1	Q6313-9930
10	4	Q6313-9936
11	2	Q6914-0012
12	4	Q6914-0171
13	4	Q6914-0182
14	2	Q6914-0011
15	4	Q6920-2015
16	1	Q9003-5168
17	1	Q9007-0018
18	1	Q9007-0000



FRONT VIEW



Total Weight: 16 pounds  
Dimensions: 14.14" x 12.26" x 6"

BOTTOM VIEW

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PREPARED BY:

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DESIGN TYPE:	RAWLAND

SHEET TITLE:  
EQUIPMENT DETAILS

DRAWING NO.	REVISION:
C6	D

ELECTRICAL NOTES:

- 1. PROVIDE AND INSTALL WARNING TAPE FOR ELECTRIC SERVICE CONDUIT 12" BELOW GRADE.
- 2. CONTRACTOR TO PAY FOR THE SERVICE AS DIRECTED BY THE MUNICIPALITY.
- 3. CONTRACTOR TO USE RIGID METAL CONDUIT WHERE CONDUITS CROSS ACCESS ROADS. CONTRACTOR TO BOND RGS CONDUIT WITH GROUNDING CLAMP TO THE GROUND RADIAL IN TRENCH IF REQUIRED.
- 4. CONTRACTOR SHALL COORDINATE WITH ELECTRIC AND TELEPHONE UTILITY COMPANIES 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. OPEN CUT CONSTRUCTION THROUGH EXISTING PAVEMENT, I.E. ROADWAYS, PARKING AREAS, SIDEWALKS WILL NOT BE ALLOWED. CONSTRUCTION UNDER EXISTING PAVEMENTS WILL BE REQUIRED TO BE INSTALLED WITH DIRECTIONAL BORING TECHNIQUE.

UTILITY NOTES:

- 1. ALL POWER CONDUITS ABOVE GRADE, SWEEPS, & ELBOWS TO BE RIGID GALVANIZED STEEL CONDUIT UNLESS OTHERWISE SPECIFIED.
- 2. INSTALL PULL STRING IN TELCO CONDUIT.

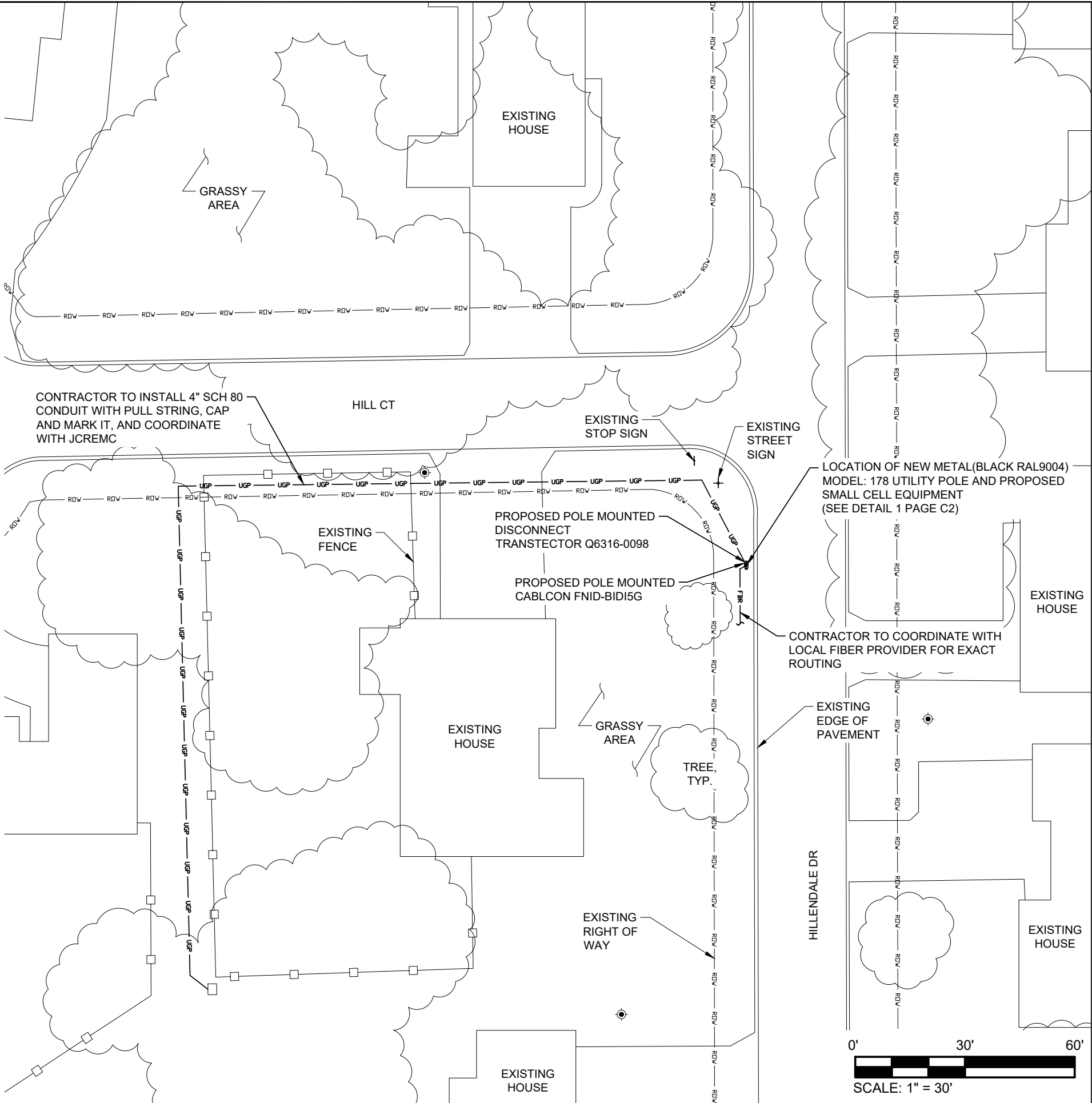
STANDARD POWER SUPPLY FOR THE SMALL CELL NODES IS A 100 AMP 120 VOLT SINGLE PHASE SERVICE

SERVICE CONDUCTOR MAXIMUM DISTANCE CHART (BASED ON 80 AMP MAX. CONTINUOUS LOAD)			
WIRE SIZE	ALUMINUM	COPPER	CONDUIT SIZE
	120V	120V	
3 AWG	55'	90'	1" MIN
2 AWG	70'	115'	1 1/4" MIN
1 AWG	85'	145'	1 1/4" MIN
1/0 AWG	110'	180'	1 1/2" MIN
2/0 AWG	140'	230'	1 1/2" MIN
3/0 AWG	175'	290'	2" MIN
4/0 AWG	220'	365'	2" MIN
250 KCMIL	265'	435'	2" MIN
300 KCMIL	315'	520'	2 1/2" MIN
350 KCMIL	370'	610'	2 1/2" MIN
400 KCMIL	420'	695'	2 1/2" MIN
500 KCMIL	530'	870'	3" MIN



LEGEND

OVERHEAD UTILITIES	DHU	CATCH BASIN	Grid symbol
UNDERGROUND POWER	UGP	STREET SIGN	Circle with cross
OVERHEAD POWER	DHP	4 WAY STREET SIGN	Circle with cross and dots
UNDERGROUND TELCO	UGT	UTILITY POLE	Circle with dot
OVERHEAD TELCO	DHT	LIGHT POLE	Circle with dot and cross
GAS LINE	GAS	TRAFFIC LIGHT POLE	Circle with dot and cross and dot
FENCE	X	WATER VALVE	Circle with cross and dot
WOOD FENCE	W	MANHOLE	Circle with M
SEWER LINE	SWR	GAS VALVE	Circle with cross and dot
WATER LINE	WTR	FIRE HYDRANT	Circle with dot and cross
STORM WATER	SW	TELCO PEDESTAL	Circle with T
HIGH VOLTAGE POWER	HVP	ELECTRICAL BOX	Circle with E
FIBER	FBR		
RIGHT-OF-WAY	RDW		
PROPERTY LINE	PL		



PREPARED FOR:



PREPARED BY:

TeleCAD  
Wireless

1961 NORTHPOINT BLVD, SUITE 130  
HIXSON, TN 37343  
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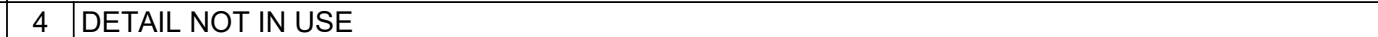
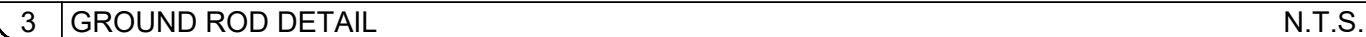
SITE NAME:	GN INDY 1092
ADDRESS:	298 HILLENDALE DR GREENWOOD, IN 46142
COUNTY:	JOHNSON
LATITUDE:	39° 37' 3.180" N
LONGITUDE:	86° 10' 44.832" W
DESIGN TYPE:	RAWLAND

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



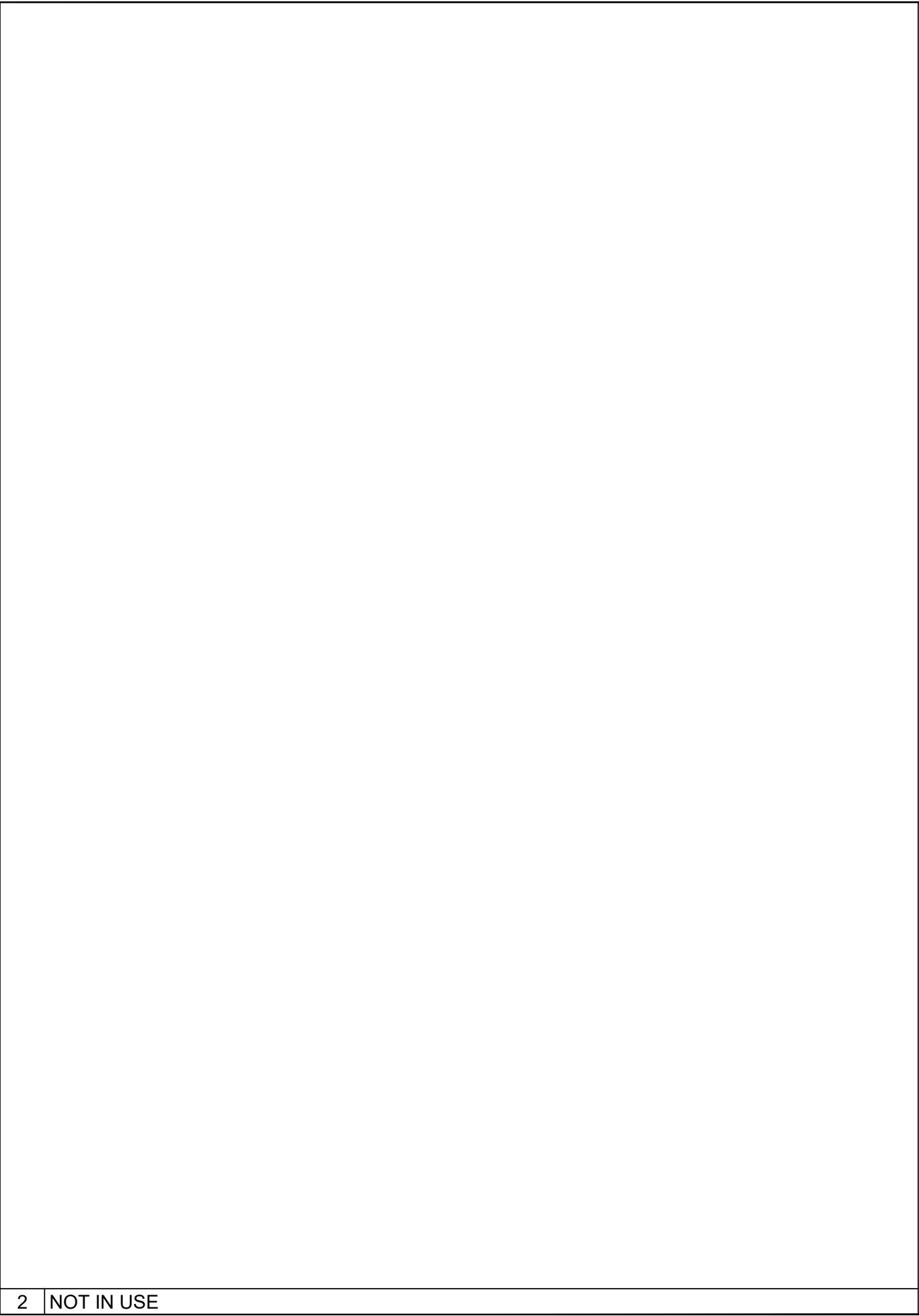
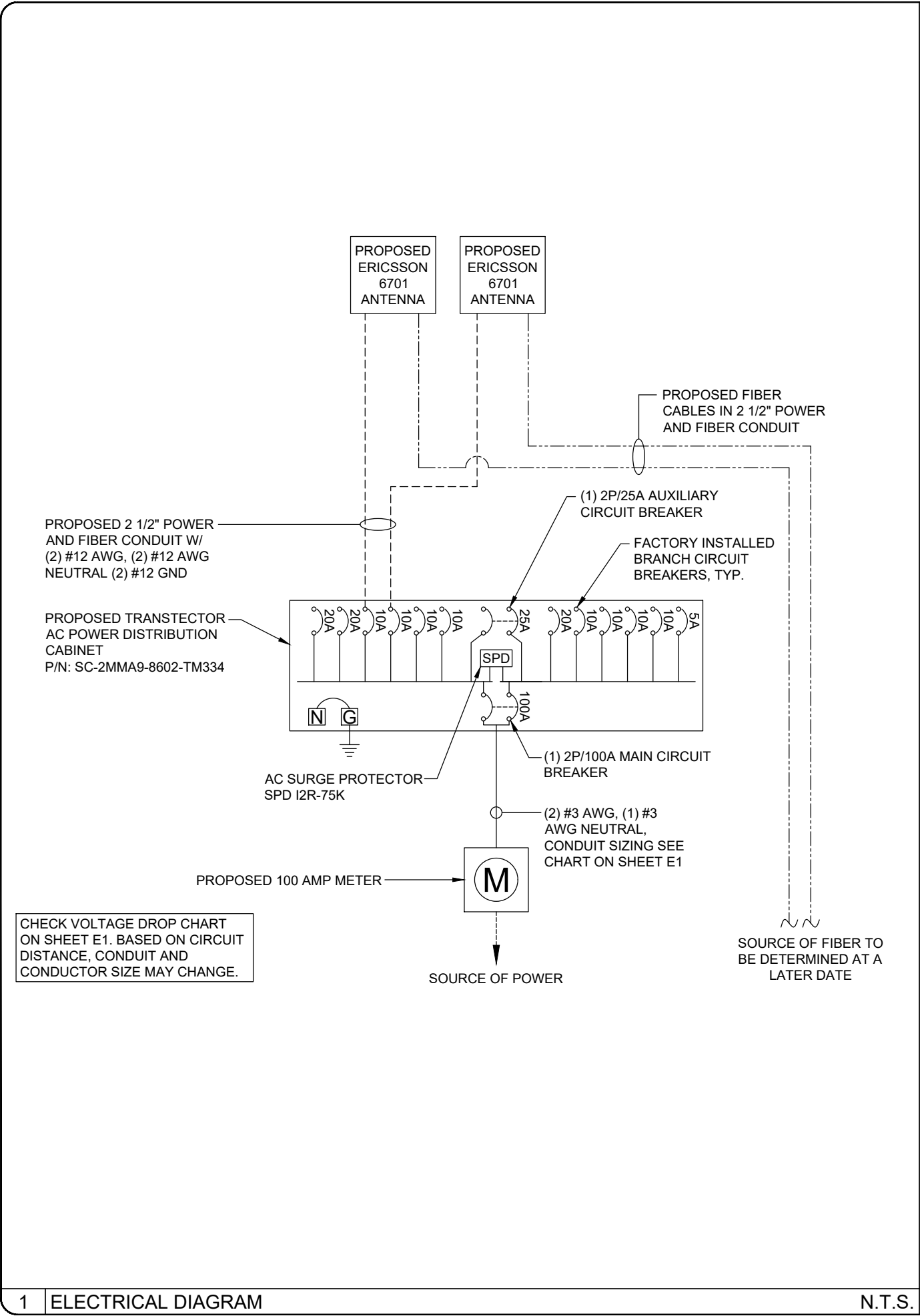
1. ALL POWER CONDUITS ABOVE GRADE TO BE RIGID GALVANIZED STEEL CONDUIT.



L2	D
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E2	D
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PREPARED FOR:



PREPARED BY:

**TeleCAD**  
Wireless

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HIKSON, TN 37343  
PH: 423-843-9500  
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JOHNSON

LATITUDE:  
39° 37' 3.180" N

LONGITUDE:  
86° 10' 44.832" W

DESIGN TYPE:  
RAWLAND

SHEET TITLE:  
SINGLE LINE DIAGRAM

DRAWING NO. <b>E3</b>	REVISION: <b>D</b>
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GENERAL STRUCTURAL NOTES:

1. DESIGN INFORMATION AND GENERAL REQUIREMENTS:

- 1.1 CODES: DESIGN CONFORMS TO  
a. 2012 INTERNATIONAL BUILDING CODE, W/ LOCAL AMENDMENTS.  
b. 2014 INDIANA BUILDING CODE.  
c. TIA-222-G, STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS.  
d. AMERICAN CONCRETE INSTITUTE (ACI), BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE 318-14.

1.2 LOADS

- a. GROUND SNOW LOAD FOR PROJECT SHALL BE 30 PSF.  
b. WIND LOAD SHALL BE 115 MPH ULTIMATE BASED ON ASCE 7-10 SPECIAL WIND REGION.

1.3 MISCELLANEOUS

- a. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS PRIOR TO PROCEEDING WITH THE WORK.

2. FOUNDATION NOTES:

2.1 EARTHWORK FOR FOUNDATIONS

- a. FOUNDATIONS HAVE BEEN DESIGNED TO BEAR ON UNDISTURBED SOILS OR COMPACTED STRUCTURAL FILL CAPABLE OF SUPPORTING A NET ALLOWABLE BEARING PRESSURE OF 1500 PSF.  
b. DESIGN, FURNISH, AND LEVEL ALL TEMPORARY SHEETING, SHORING, AND DRAINAGE TO MAINTAIN THE EXCAVATION AND PROTECT SURROUNDING STRUCTURES AND UTILITIES.  
c. THOROUGHLY COMPACT BOTTOM OF FOOTINGS PRIOR TO PLACING ANY CONCRETE.  
d. BACKFILL SHALL BE COMPACTED TO 95% STANDARD PROCTOR.  
e. IT IS RECOMMENDED THAT THE EXCAVATION IS COMPLETED BY DRILLING INTO THE SOIL AT A DIAMETER EQUAL TO THE FINAL OUTER DIAMETER OF THE CAISSON. IT IS RECOMMENDED THAT THE CAISSON IS CAST-IN-PLACE DIRECTLY AGAINST THE EXISTING SOIL SURROUNDING THE DRILLED HOLE.  
f. OVER EXCAVATION SHALL BE LIMITED TO A HOLE APPROXIMATELY 12 INCHES IN DIAMETER GREATER THAN THE SPECIFIED OUTER CAISSON DIAMETER.  
g. OVER EXCAVATED AREAS SHALL BE BACKFILLED USING A LEAN CONCRETE SLURRY (FLOWABLE FILL) WITH A MINIMUM COMPRESSIVE STRENGTH OF 200 PSI. FLOWABLE FILL SHALL ONLY BE PLACED AFTER CONCRETE FORMS ARE REMOVED

2.2 GEOTECHNICAL

- a. THE FOUNDATIONS SHALL NOT BEAR ON ORGANIC SOILS, VOIDS, DELETERIOUS SOILS, CONDUITS, LOOSE SOILS OR FULLY SATURATED SOILS. IF ANY OF THESE OR OTHER COMPROMISED SOIL CONDITIONS ARE PRESENT DURING CONSTRUCTION, ACTIVITIES SHOULD SIEZE IMMEDIATELY UNTIL THE ISSUE IS RESOLVED BY THE ENGINEER OF RECORD.

2.3 CONCRETE FORMWORK

- a. CONCRETE CONSTRUCTION SHALL CONFORM TO "SPECIFICATIONS FOR STRUCTURAL CONCRETE," ACI 301-10  
b. FORMWORK SHALL CONFORM TO "SPECIFICATIONS FOR STRUCTURAL CONCRETE," ACI 301-10  
c. ANY FORMS UTILIZED TO CAST THE FOUNDATION SHALL BE FULLY REMOVED PRIOR TO PLACING FLOWABLE FILL, AND PRIOR TO PLACING THE POLE ATOP THE FOUNDATION.

2.4 REINFORCEMENT

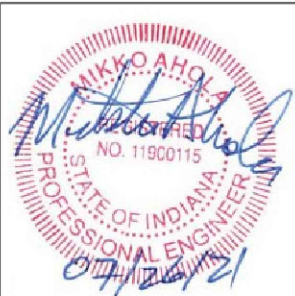
- a. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. WELDED WIRE SHALL CONFORM TO ASTM A185 (FLAT SHEET). MINIMUM LAP SPLICE LENGTH SHALL BE 40 BAR DIAMETERS U.N.O.  
b. BARS SHALL BE SECURELY HELD IN ACCURATE POSITION BY SUITABLE ACCESSORIES, TIE BARS, SUPPORT BARS, ETC. HOOK LENGTHS SHALL BE 12 BAR DIAMETERS.  
c. CONCRETE COVER FOR REINFORCING BARS SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED.  
FOOTINGS & SLABS CAST AGAINST GROUND ..... 3"  
CONCRETE TO BE IN CONTACT WITH GROUND OR WEATHER AT BARS GREATER THAN #5 ..... 2"  
AT BARS #5 OR LESS. .... 1 1/2"

2.5 CAST IN PLACE CONCRETE NOTES



- a. MINIMUM 28 DAY COMPRESSIVE STRENGTH FOR CONCRETE SHALL BE 4500 psi.  
b. MAXIMUM SLUMP, PRIOR TO ADDITION OF SUPER PLASTICIZERS, AS FOLLOWS: SLUMP  
FOOTINGS AND DRILLED SHAFTS..... 3"  
LEAN CONCRETE FOR OVER-EXCAVATION OF FOUNDATIONS..... N/A  
c. MIX DESIGN TO BE IN ACCORDANCE WITH ACI 318, CHAPTER 26. NO CALCIUM CHLORIDE ADMIXTURE OR OTHER ADMIXTURE CONTAINING CHLORIDES SHALL BE USED IN ANY CONCRETE.  
d. COARSE AGGREGATE FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C33 SIZE #57. COARSE AGGREGATE FOR LIGHT WEIGHT CONCRETE SHALL CONFORM TO ASTM C330 GRADED 3/4" TO 1/4".  
e. COLD WEATHER PLACEMENT SHALL COMPLY WITH ACI 306.1  
f. HOT WEATHER PLACEMENT SHALL COMPLY WITH ACI 305 R.  
g. ALL PROJECTIONS ABOVE GRADE TO BE CHAMFERED 1:1 FOR THE ENTIRE HEIGHT OF THE PROJECTION.  
h. THE MAXIMUM TEMPERATURE OF ALL CONCRETE AT DELIVERY TO THE SITE SHALL BE 85°F.  
i. TOTAL DELIVERY TIME SHALL BE LESS THAN 75 MINUTES.  
j. CEMENT TYPE SHALL BE TYPE II. WATER CEMENT RATIO SHALL BE 0.45 MAXIMUM.  
k. AIR ENTRAINMENT TO BE 5% (±1%)

SITE ADDRESSES

State of Indiana



MIKKO P. AHOLA, P.E.  
ININDIANA PROFESSIONAL ENGINEER  
LICENSE #PE11900115 (EXP. 07/31/2020)

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							BOULDER CO. 80301								
							PH: 303.531.5758								
							FAX: 303.531.5595								
FINISH			UNIT FORMAT		DESCRIPTION										
			FT-IN-LBS		BIN SMALL CELL POLE FND										
DRW BY		APPR BY		ENG. BY											
DAC		MPA		MS		PART NO.									
PROJECT. NO.															
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FOUNDATION DESIGN

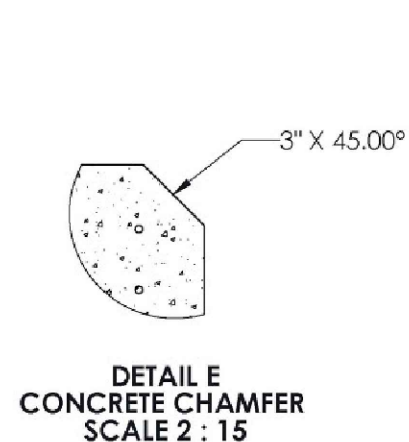
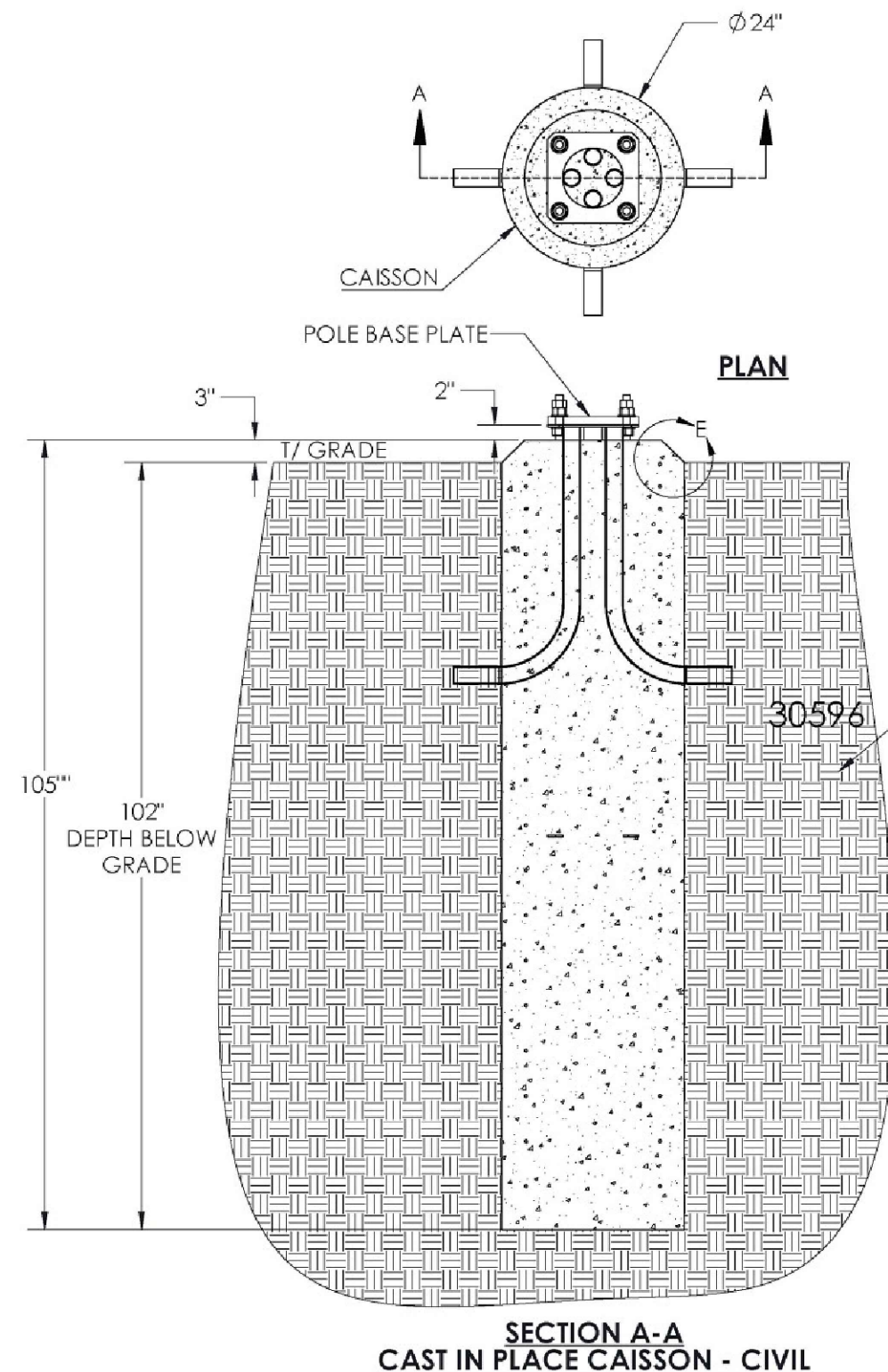
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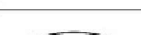

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D





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							REV.	BY
			01	DAC	10/16/19	MPA	INITIAL RELEASE	
			02	DAC	7/27/20	MPA	UPDATED NOTES	
FINISH		UNIT FORMAT FT-IN-LBS	DESCRIPTION					
			8IN SMALL CELL POLE FND					
DRW BY	APPR BY	ENG. BY						
DAC	MPA	MS	PART NO.					
PROJECT. NO.								
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**verizon**✓

PREPARED BY:

**TeleCAD**  
Wireless

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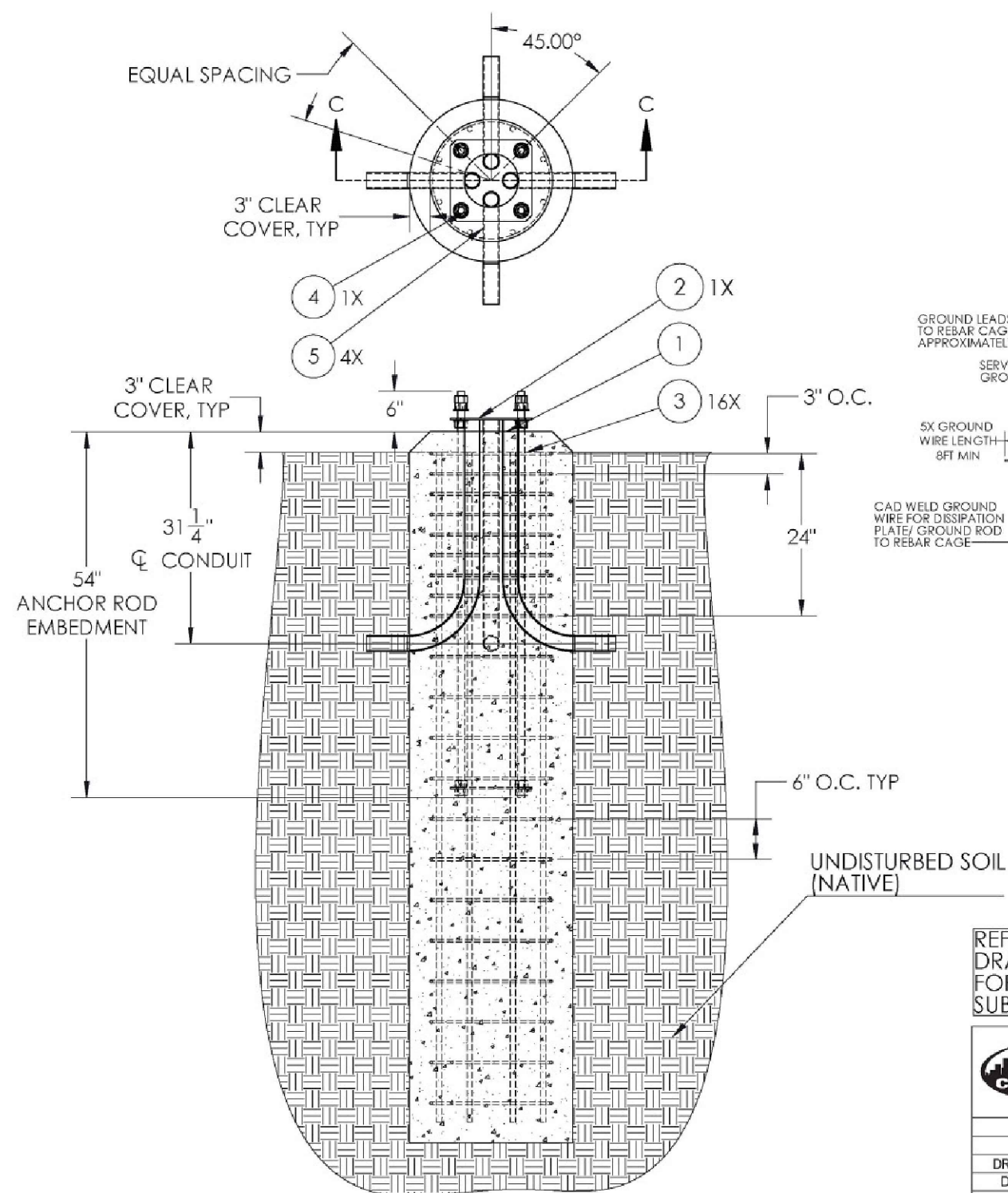
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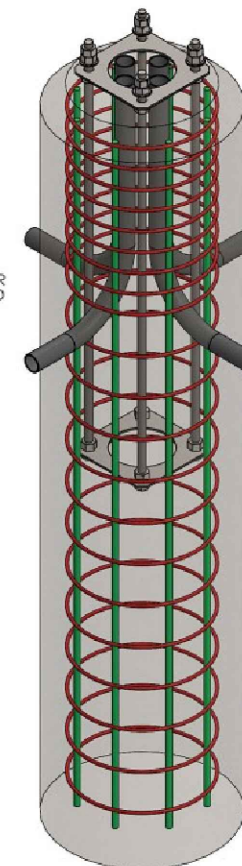
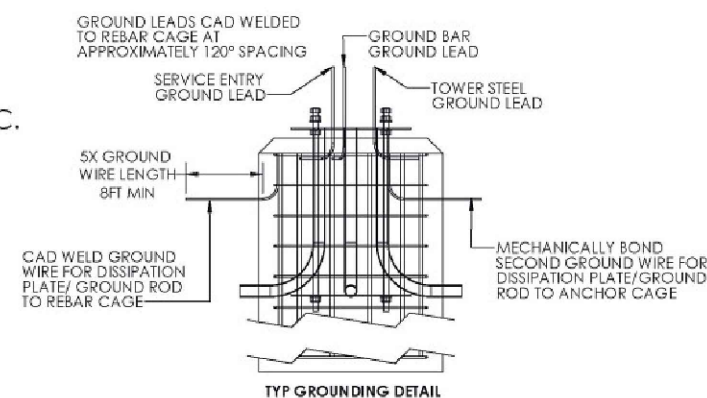
FOUNDATION DESIGN

DRAWING NO.	REVISION:
S2	D







ITEM NO.	QTY.	Description	Weight (lbs)
1	1	4500 psi Concrete Caisson	4091.6
2	8	#6 Grade 60 Vertical Steel Reinforcement Bar	12.3
3	16	#3 Grade 60 Steel Ties	1.7
4	1	Anchor Cage	68.15
5	4	2in PVC Conduit	2.22



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PROJECT. NO.								
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MIKKO P. AHOLA, P.E.  
IN INDIANA PROFESSIONAL ENGINEER  
LICENSE #PE11900115 (EXP. 07/31/2020)

PREPARED FOR:



PREPARED BY:



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

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REVISIONS			
D	03/09/22	BRP	PRELIMINARY REVIEW
C	07/15/21	STC	PRELIMINARY REVIEW
B	03/22/21	BRP	PRELIMINARY REVIEW
A	02/26/20	BRP	PRELIMINARY REVIEW
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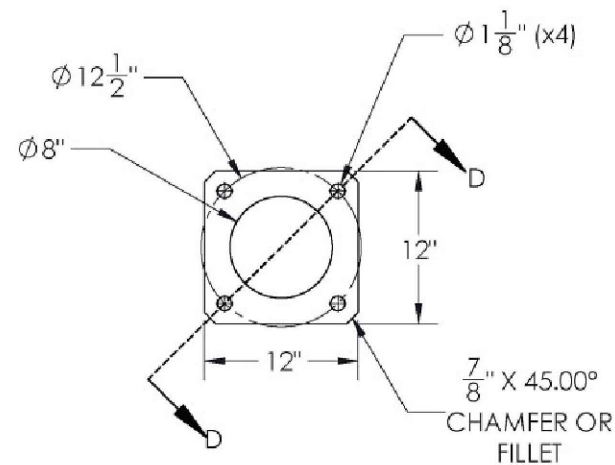
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SITE NAME:	GN INDY 1092
ADDRESS:	298 HILLEDALE DR GREENWOOD, IN 46142
COUNTY:	JOHNSON
LATITUDE:	39° 37' 3.180" N
LONGITUDE:	86° 10' 44.832" W
DESIGN TYPE:	RAWLAND

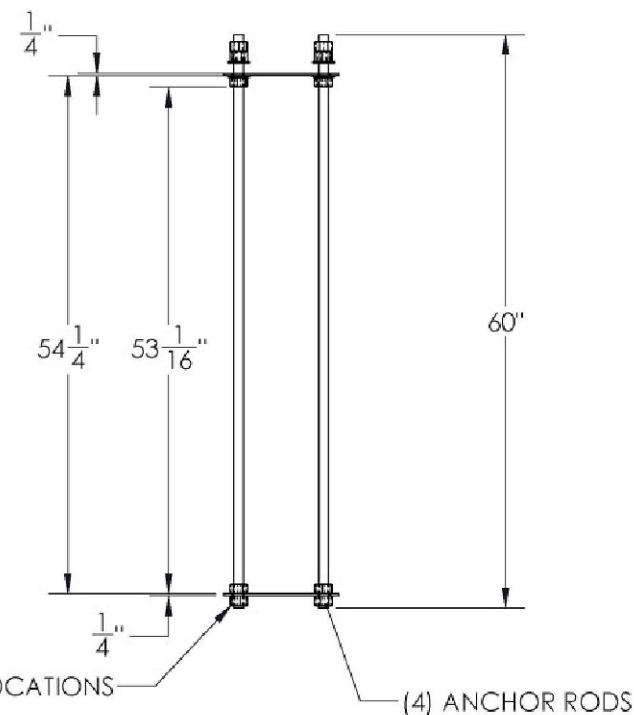
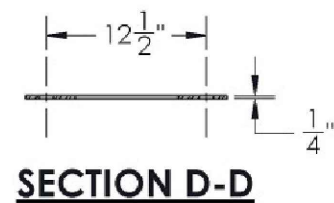
SHEET TITLE:

FOUNDATION DESIGN

DRAWING NO.	REVISION:
S3	D

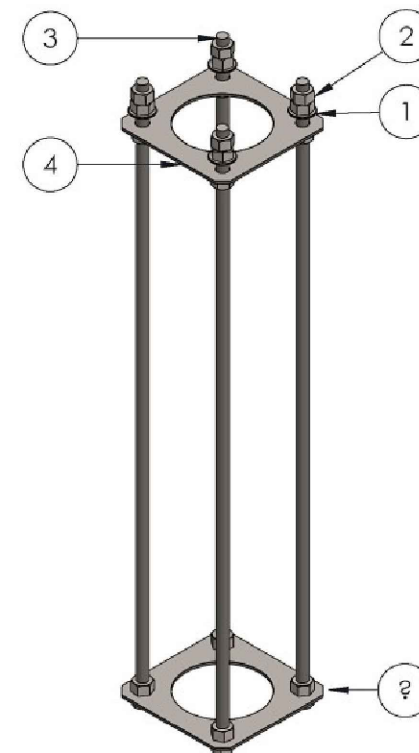


TEMPLATE RING PLAN

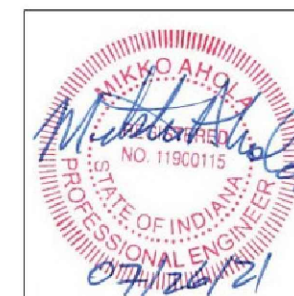


ANCHOR CAGE ASSEMBLY ELEVATION



ITEM NO.	DESCRIPTION	QTY.	SITE ADDRESSES
1	HARDENED WASHERS 436 HDG	8	State of Indiana
2	1" HEX NUT HDG	20	
3	1"x60" A193 B7 threaded Rods HDG	4	
4	8IN POLE TEMPLATE RING	2	



ANCHOR CAGE ASSEMBLY ISOMETRIC



MIKKO P. AHOLA, P.E.  
IN INDIANA PROFESSIONAL ENGINEER  
LICENSE #PE11900115 (EXP. 07/31/2020)

						<a href="http://www.comptektechnologies.com">www.comptektechnologies.com</a> 5555 CENTRAL AVE, SUITE 100 BOULDER CO. 80301 PH: 303.531.5758 FAX: 303.531.5595			<div>REVISION</div> <table><thead><tr><th>REV.</th><th>BY</th><th>DATE</th><th>APPR.</th><th>REVISION DESCRIPTION</th></tr></thead><tbody><tr><td>01</td><td>DAC</td><td>10/16/19</td><td>MPA</td><td>INITIAL RELEASE</td></tr><tr><td>02</td><td>DAC</td><td>7/27/20</td><td>MPA</td><td>UPDATED NOTES</td></tr></tbody></table>			REV.	BY	DATE	APPR.	REVISION DESCRIPTION	01	DAC	10/16/19	MPA	INITIAL RELEASE	02	DAC	7/27/20	MPA	UPDATED NOTES
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01	DAC	10/16/19	MPA	INITIAL RELEASE																						
02	DAC	7/27/20	MPA	UPDATED NOTES																						
FINISH		UNIT FORMAT		DESCRIPTION																						
		FT-IN-LBS		8IN SMALL CELL POLE FND																						
DRW BY	APPR BY	ENG. BY																								
DAC	MPA	MS		PART NO.																						
PROJECT. NO.																										
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				REV. 02																						

PREPARED FOR:

**verizon**

PREPARED BY:

**TeleCAD**  
Wireless

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

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REVISIONS

NO.	DATE	BY	DESCRIPTION
D	03/09/22	BRP	PRELIMINARY REVIEW
C	07/15/21	STC	PRELIMINARY REVIEW
B	03/22/21	BRP	PRELIMINARY REVIEW
A	02/28/20	BRP	PRELIMINARY REVIEW

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LONGITUDE:	86° 10' 44.832" W
DESIGN TYPE:	RAWLAND

SHEET TITLE:  
FOUNDATION DESIGN

DRAWING NO. S4  
REVISION: D