



SITE NAME:  
**NORTH OGDEN**

SITE NUMBER:  
**310320**

2367 N RULON WHITE BLVD  
ODGEN, UT 84404

EXISTING 147' MONOPOLE

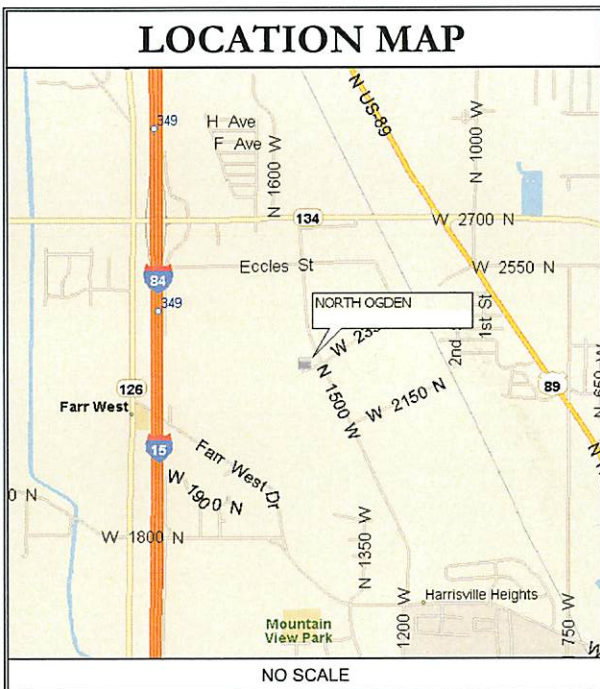
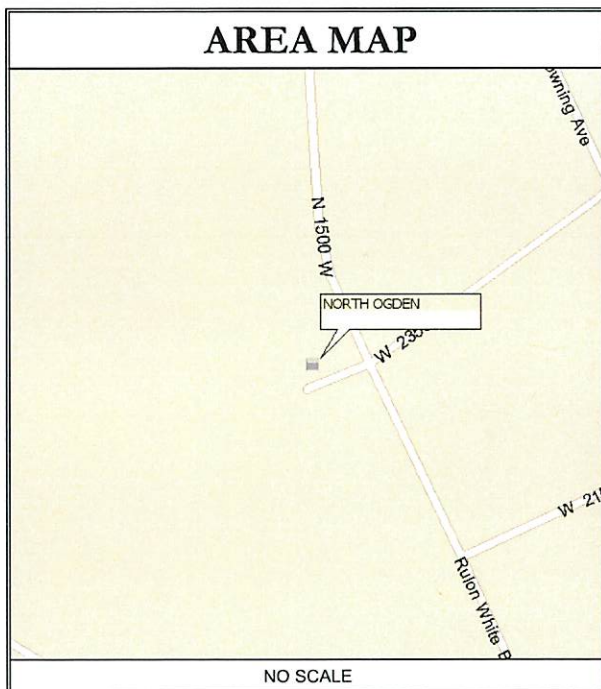


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**NORTH OGDEN**  
 2367 N RULON WHITE BLVD  
 ODGEN, UT 84404  
 EXISTING MONOPOLE

310320

PROJECT SUMMARY	
SITE NAME:	NORTH OGDEN
SITE NUMBER:	310320
SITE ADDRESS:	2367 N RULON WHITE BLVD ODGEN, UT 84404
JURISDICTION:	SALT LAKE CITY
TOWER OWNER:	AMERICAN TOWER CORPORATION 116 HUNTINGTON AVE, 11TH FLOOR BOSTON, MA 02116
PROPERTY OWNER:	CRAIG S & TERESA HOTCHKISS
NAD83	
LATITUDE:	41° 17' 56.20" N
LONGITUDE:	112° 00' 55.18" W
CUSTOMER/APPLICANT:	VIVINT WIRELESS 4931 NORTH 300 WEST PROVO, UTAH 84601 (801) 234-6359
OCCUPANCY TYPE:	UNMANNED
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION



DRAWING INDEX		
SHEET #	SHEET DESCRIPTION	REV. #
T-1	TITLE SHEET	0
GN-1	GENERAL NOTES	0
C-1	OVERALL SITE PLAN	0
C-2	ENLARGED SITE PLAN	0
C-3	TOWER ELEVATION & AZIMUTH PLAN	0
C-4	ANTENNA SPECS	0
C-5	ANTENNA ELEVATIONS	0
C-6	ANTENNA MOUNT SPECS	0
C-7	CABINET DETAILS	0
E-1	ELECTRICAL PLAN	0
G-1	ELECTRICAL/GROUNDING NOTES	0
G-2	GROUNDING DETAILS	0
G-3	GROUNDING DETAILS	0

CONTACT INFORMATION	
A&E FIRM:	B+T GROUP 3625 BROOKSIDE PARKWAY, SUITE 380 ALPHARETTA, GA 30022 PHONE: CAROLINE BLOUNT, P.E. (918) 587-4630
SITE ACQ.:	VIVINT WIRELESS 4931 NORTH 300 WEST PROVO, UTAH 84601 CONTACT: VINCE TANNER PHONE: (801) 229-6412
ELECTRIC PROVIDER:	ROCKY MOUNTAIN POWER
TELCO PROVIDER:	QWEST

**DRIVING DIRECTIONS**

DEPART SALT LAKE CITY INTERNATIONAL AIRPORT ONTO I-80, AT EXIT 117, TURN RIGHT ONTO RAMP. TAKE RAMP (LEFT) ONTO I-215, TAKE RAMP ONTO I-15. AT EXIT 349, TURN RIGHT ONTO RAMP, KEEP STRAIGHT TO STAY ON RAMP. TURN RIGHT ONTO UT-134 [W 2700 N], TURN RIGHT ONTO N 1500 W [N 15TH W]. KEEP STRAIGHT ONTO (N) 1500 (W) [RULON WHITE BLVD], TURN RIGHT ONTO W 2350 N. TURN RIGHT ONTO ACCESS ROAD AND ARRIVE AT NORTH OGDEN.

A/E DOCUMENT REVIEW STATUS		
TITLE	SIGNATURE	DATE
PROJECT MANAGER:		
R.F. ENGINEER:		
OPERATIONS MANAGER:		
CONSTRUCTION MANAGER:		
PROPERTY OWNER:		

CODE COMPLIANCE	
ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:	
CODE TYPE	CODE
BUILDING/DWELLING	IBC 2012
STRUCTURAL	IBC 2012
MECHANICAL	IMC 2012
ELECTRICAL	NEC 2011

**PROJECT DESCRIPTION**

THE PROPOSED PROJECT INCLUDES:

- INSTALL (5) ANTENNAS ON NEW MOUNT AT 120'.
- INSTALL (2) CAT5E CABLES.
- INSTALL (1) EQUIPMENT CABINET ON CONCRETE PAD.

**DO NOT SCALE DRAWINGS**

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR 11X17. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

SEE SHEET GN-1 & G-1 FOR  
ADDITIONAL CONSTRUCTION NOTES

THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND MAY IMPOSE CHANGES OR MODIFICATIONS.

CALL UTAH ONE CALL  
(800) 662-4111  
CALL 3 WORKING DAYS  
BEFORE YOU DIG!

PROJECT NO:	105242.001		
CHECKED BY:	CWB		
<b>ISSUED FOR:</b>			
REV	DATE	DRWN	DESCRIPTION
A	3/10/16	SMM	PRELIMINARY REVIEW
0	3/18/16	SMM	CONSTRUCTION

B&T ENGINEERING, INC.

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SHEET NUMBER:	REVISION:
<b>T-1</b>	<b>0</b>

105242.001\_310320\_North Ogdren ATC.dwg - Sheet T-1 - User: cblount - Mar 21, 2016 - 11:38am

**GENERAL CONSTRUCTION NOTES:**

1. DRAWINGS WERE PREPARED FROM STANDARDIZED DETAILS DEVELOPED AND PROVIDED BY VIVINT WIRELESS. STANDARDIZED DETAILS ARE TO BE CONFIRMED AND CORRELATED AT THE SITE BY THE CONTRACTOR. STANDARDIZES DETAILS THAT REQUIRE MODIFICATIONS DUE TO ACTUAL FIELD CONDITIONS AND REQUIREMENTS MUST BE SUBMITTED TO AND APPROVED BY, VIVINT WIRELESS PRIOR TO START OF WORK.
2. DRAWINGS ARE NOT TO BE SCALED. WRITTEN DIMENSIONS TAKE PRECEDENCE. THIS SET OF DOCUMENTS IS INTENDED TO BE USED FOR DIAGRAM PURPOSES ONLY, UNLESS NOTED OTHERWISE. THE CONTRACTOR IS RESPONSIBLE FOR ALL DIMENSIONS.
3. THE GENERAL CONTRACTOR'S SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND ANY REQUIREMENTS DEEMED NECESSARY TO COMPLETE INSTALLATION AS DESCRIBED IN THE DRAWINGS AND AS DISCUSSED ON THE SITE WALK.
4. PRIOR TO THE SUBMISSION OF BIDS, CONTRACTORS SHALL VISIT THE JOB SITE TO FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE PROPOSED PROJECT. CONTRACTORS SHALL VISIT THE CONSTRUCTION SITE WITH THE CONSTRUCTION DOCUMENTS TO VERIFY FIELD CONDITIONS AND CONFIRM THAT THE PROJECT WILL BE ACCOMPLISHED AS SHOWN. PRIOR TO PROCEEDING WITH CONSTRUCTION, AN ERRORS, OMISSIONS OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF VIVINT WIRELESS VERBALLY AND IN WRITING.
5. THE GENERAL CONTRACTOR SHALL RECEIVE WRITTEN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS.
6. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES SEQUENCES AND PROCEDURES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
7. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO MANUFACTURER'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
8. ALL WORK PERFORMED ON THE PROJECT AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODE REGULATIONS AND ORDINANCES. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCES OF THE WORK.
9. GENERAL CONTRACTOR SHALL PROVIDE, AT THE PROJECT SITE, A FULL SET OF CONSTRUCTION DOCUMENTS UPDATED WITH THE LATEST REVISIONS AND ADDENDA OR CLARIFICATIONS FOR USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.
10. THE STRUCTURAL COMPONENTS OF ADJACENT CONSTRUCTION OR FACILITIES ARE NOT TO BE ALTERS BY THIS CONSTRUCTION PROJECT UNLESS NOTED OTHERWISE.
11. CONTRACTOR TO SEAL ALL PENETRATIONS THROUGH FIRE-RATED AREAS WITH U.L. LISTED OR FIRE MARSHALL APPROVED MATERIALS IF APPLICABLE TO THIS FACILITY OR PROJECT SITE
12. CONTRACTOR TO PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A10BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF THE PROJECT AREA DURING CONSTRUCTION
13. CONTRACTOR SHALL MEET ALL OSHA REQUIREMENTS FOR ALL INSTALLATIONS
14. CONTRACTOR TO VERIFY LOCATION OF ALL BURIED UTILITIES PRIOR TO EXCAVATION
15. CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC. DURING CONSTRUCTION. UPON COMPLETION OF WORK, CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY
16. CONTRACTOR SHALL KEEP GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS AND RUBBISH. CONTRACTOR SHALL REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY OR PREMISES. SITE SHALL BE LEFT IN CLEAN CONDITION DAILY AND FREE FROM PAINT SPOT, DUST OR SMUDGES OF ANY NATURE.

17. THE ARCHTECTS/ENGINEERS HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. CONTRACTORS BIDDING THE JOB ARE NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOTE EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS. THE BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) VIVINT WIRELESS OF ANY CONFLICTS, ERROR OR OMISSIONS PRIOR TO SUBMISSION OF CONTRACTOR'S PROPOSAL. IN THE EVENT OF DISCREPANCIES, THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTREME WORK, UNLESS DIRECTED OTHERWISE
18. THE CONTRACTOR SHALL PERFORM WORK DURING OWNER'S PREFERRED HOURS TO AVOID DISTURBING NORMAL BUSINESS.
19. THE CONTRACTOR SHALL PROVIDE VIVINT WIRELESS PROPER INSURANCE CERTIFICATES NAMING VIVINT WIRELESS AS ADDITIONAL INSURED AND VIVINT WIRELESS PROOF OF LICENSE(S) AND PL & PD INSURANCE.



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ODGEN, UT 84404

EXISTING MONOPOLE

PROJECT NO: 105242.001  
CHECKED BY: CWB

ISSUED FOR:

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0	3/18/16	SMM	CONSTRUCTION

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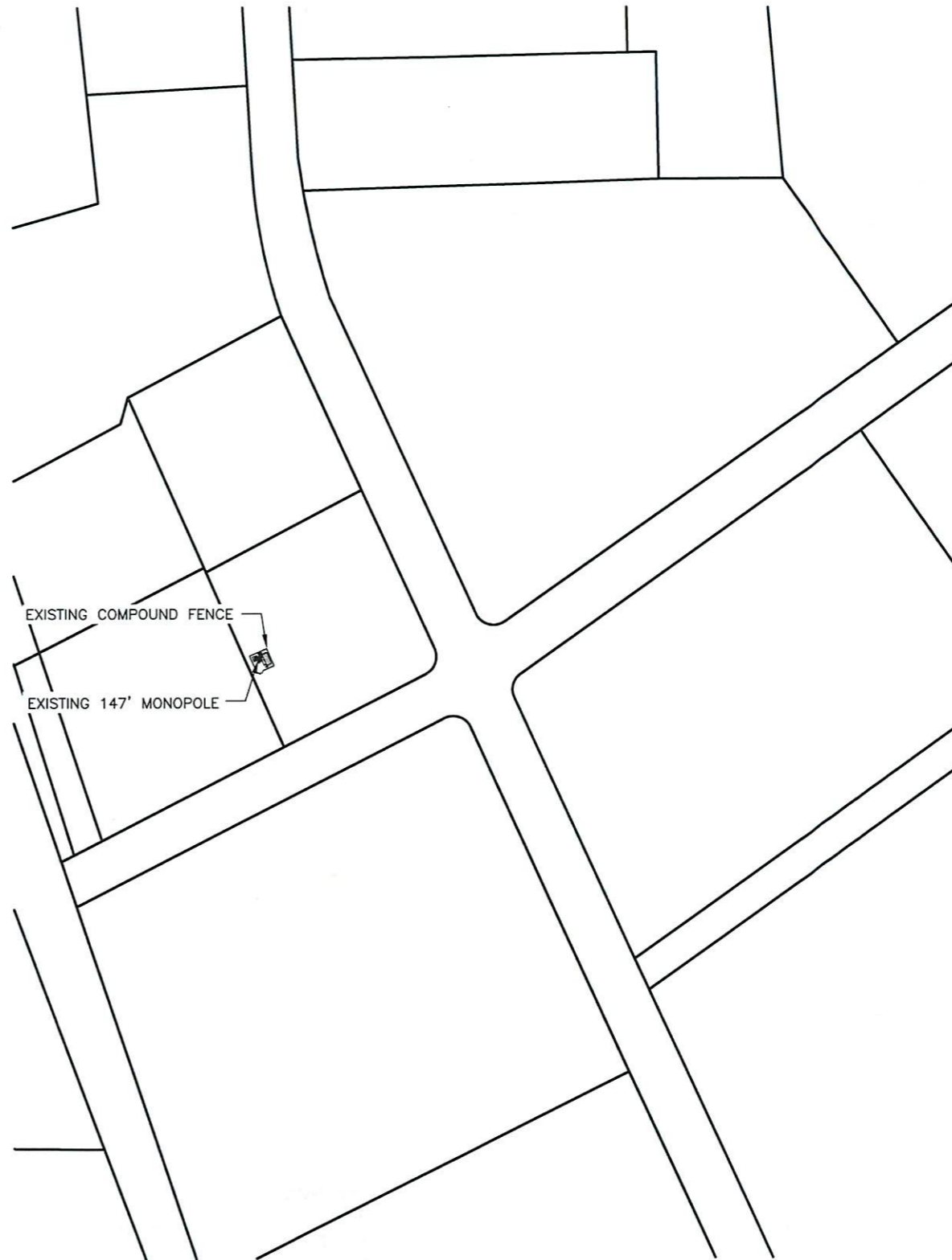
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

THE EXISTING CONDITIONS REPRESENTED HEREIN ARE BASED ON VISUAL OBSERVATIONS AND INFORMATION PROVIDED BY OTHERS. B+T GROUP CANNOT GUARANTEE THE CORRECTNESS NOR THE COMPLETENESS OF THE EXISTING CONDITIONS SHOWN AND ASSUMES NO RESPONSIBILITY THEREOF. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS AS REQUIRED FOR PROPER COMPLETION OF THE PROJECT.

SHEET NUMBER: **GN-1** REVISION: **0**



**1** AERIAL IMAGE  
SCALE: N.T.S.



**2** OVERALL SITE PLAN  
SCALE: N.T.S.



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2367 N RULON WHITE BLVD  
ODGEN, UT 84404  
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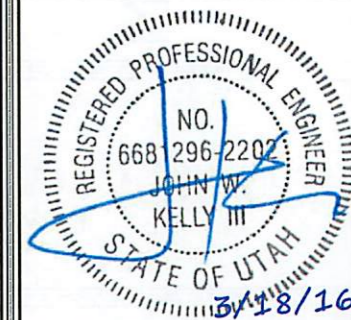
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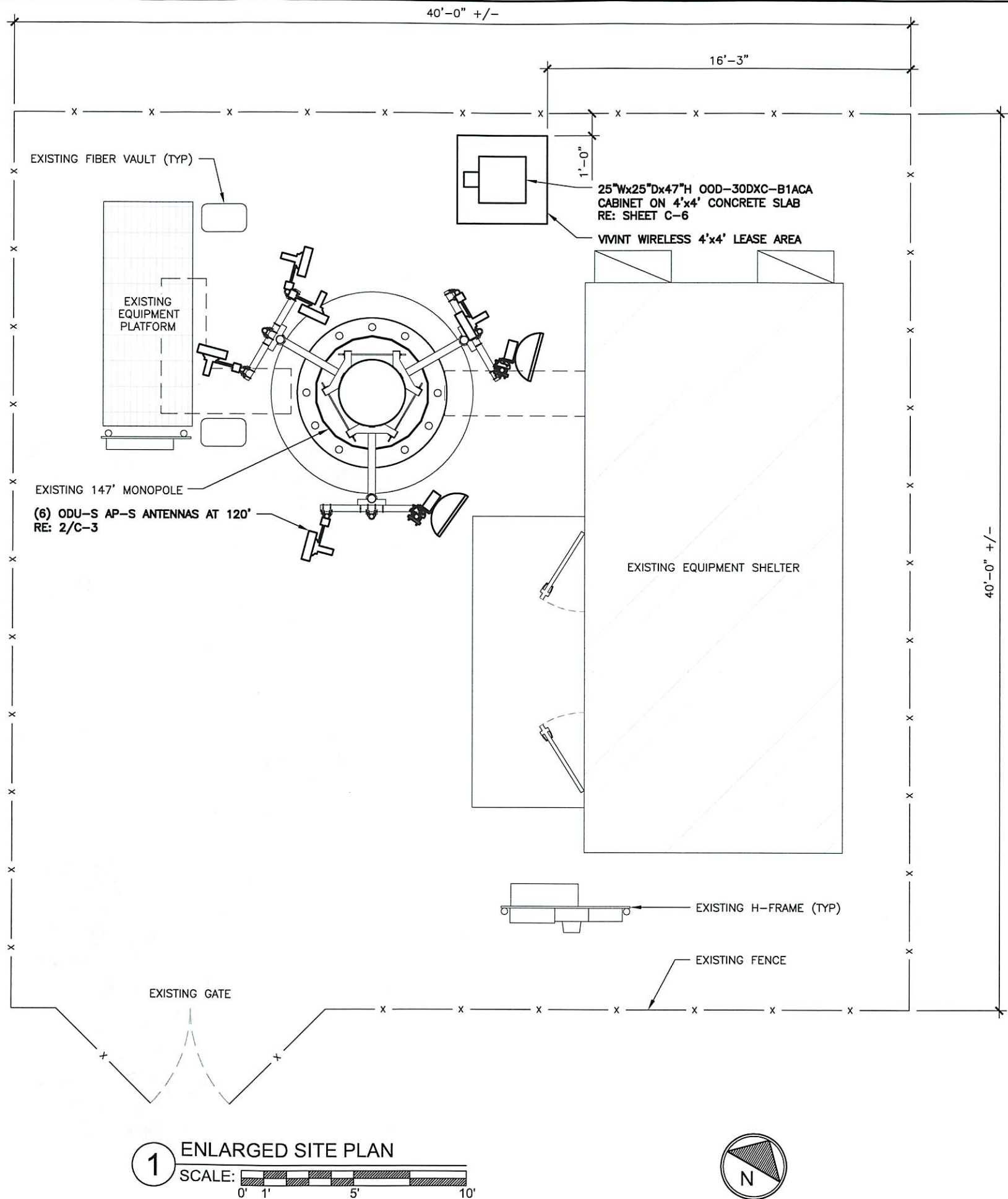


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SHEET NUMBER: REVISION:

**C-1** **0**

105242.001\_310320\_North Ogdan A1C.dwg - SheetC-2 - User: cblount - Mar 21, 2016 - 11:38am



CONTRACTOR SHALL REPAIR  
EXISTING SURFACES DISTURBED  
DURING CONSTRUCTION

CONTRACTOR TO FIELD  
VERIFY ALL DIMENSIONS  
PRIOR TO CONSTRUCTION



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310320

**NORTH OGDEN**

2367 N RULON WHITE BLVD  
ODGEN, UT 84404

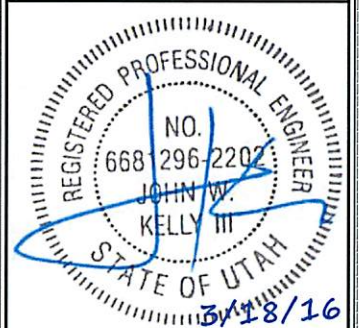
EXISTING MONOPOLE

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1 ENLARGED SITE PLAN  
SCALE: 0' 1' 5' 10'



SHEET NUMBER: C-2  
REVISION: 0

# Product Specifications

COMMSCOPE®



VHL1-80-xxx  
0.3 m | 1 ft ValuLine® High Performance Low Profile Antenna, single-polarized, 71.000–86.000 GHz, custom flange and color, polymer radome without flash, standard pack—one-piece reflector

## General Specifications

Antenna Type	VHLP - ValuLine® High Performance Low Profile Antenna, single-polarized
Diameter, nominal	0.3 m   1 ft
Packing	Standard pack
Radome Color	Custom
Radome Material	Polymer
Reflector Construction	One-piece reflector
Antenna Input	Custom
Antenna Color	White
Antenna Type	VHLP - ValuLine® High Performance Low Profile Antenna, single-polarized
Diameter, nominal	0.3 m   1 ft
Flash Included	No
Polarization	Single

## Electrical Specifications

Operating Frequency Band	71.000 - 86.000 GHz
Beamwidth, Horizontal	0.9 °
Beamwidth, Vertical	0.9 °
Cross Polarization Discrimination (XPD)	25 dB
Electrical Compliance	ETSI 302 217 Class 3
Front-to-Back Ratio	61 dB
Gain, Low Band	43.0 dBi
Gain, Mid Band	43.5 dBi
Gain, Top Band	44.0 dBi
Operating Frequency Band	71.000 - 86.000 GHz
Radiation Pattern Envelope Reference (RPE)	7287
Return Loss	14.0 dB
VSWR	1.50

## Mechanical Specifications

Fine Azimuth Adjustment	±15°
Fine Elevation Adjustment	±15°
Mounting Pipe Diameter	50 mm–115 mm   2.0 in–4.5 in
Net Weight	7 kg   14 lb
Side Struts, Included	0
Side Struts, Optional	0
Wind Velocity Operational	200 km/h   124 mph
Wind Velocity Survival Rating	250 km/h   155 mph

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page 1 of 5  
February 19, 2016

1 VHL1-80-XXX SPECS  
SCALE: N.T.S.

# Product Specifications

COMMSCOPE®



VHL2-80-xxx  
0.6 m | 2 ft ValuLine® High Performance Low Profile Antenna, single-polarized, 71.000–86.000 GHz, custom flange and color, polymer radome without flash, standard pack—one-piece reflector

## General Specifications

Antenna Type	VHLP - ValuLine® High Performance Low Profile Antenna, single-polarized
Diameter, nominal	0.6 m   2 ft
Packing	Standard pack
Radome Color	Custom
Radome Material	Polymer
Reflector Construction	One-piece reflector
Antenna Input	Custom
Antenna Color	Custom
Antenna Type	VHLP - ValuLine® High Performance Low Profile Antenna, single-polarized
Diameter, nominal	0.6 m   2 ft
Flash Included	No
Polarization	Single

## Electrical Specifications

Operating Frequency Band	71.000 - 86.000 GHz
Beamwidth, Horizontal	0.5 °
Beamwidth, Vertical	0.5 °
Cross Polarization Discrimination (XPD)	25 dB
Electrical Compliance	ETSI 302 217 Class 3   US FCC Part 101.115
Front-to-Back Ratio	68 dB
Gain, Low Band	50.0 dBi
Gain, Mid Band	50.5 dBi
Gain, Top Band	51.0 dBi
Operating Frequency Band	71.000 - 86.000 GHz
Radiation Pattern Envelope Reference (RPE)	7288
Return Loss	14.0 dB
VSWR	1.50

## Mechanical Specifications

Fine Azimuth Adjustment	±15°
Fine Elevation Adjustment	±15°
Mounting Pipe Diameter	50 mm–115 mm   2.0 in–4.5 in
Net Weight	9 kg   20 lb
Side Struts, Included	0

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page 1 of 5  
February 19, 2016

1 VHL2-80-XXX SPECS  
SCALE: N.T.S.



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310320  
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2367 N RULON WHITE BLVD  
ODGEN, UT 84404  
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PROJECT NO: 105242.001  
CHECKED BY: CWB

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0	3/18/16	SMM	CONSTRUCTION

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SHEET NUMBER: C-4  
REVISION: 0



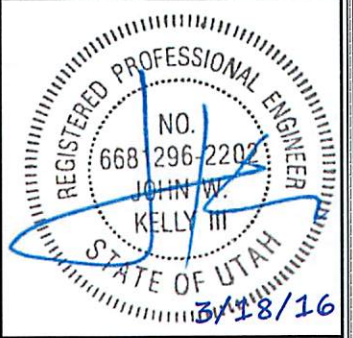
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SHEET NUMBER: **C-3** REVISION: **0**

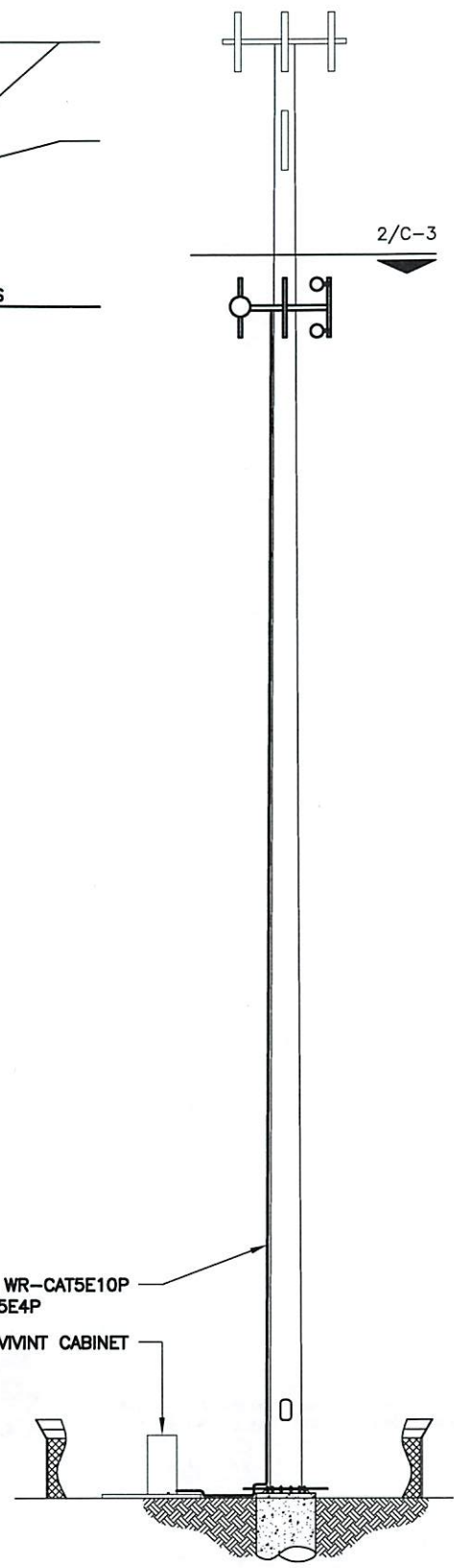
- TOP OF TOWER  
ELEV. = 147'
- (E) ANTENNAS  
ELEV. = 147'
- (E) ANTENNAS  
ELEV. = 137'
- NEW VIVINT ANTENNAS  
ELEV. = 120'

**STRUCTURAL ANALYSIS NOTE:**  
 REFER TO STRUCTURAL ANALYSIS OR STRUCTURAL LETTER FOR APPROVAL OF ADDITIONAL NEW APPURTENANCES.

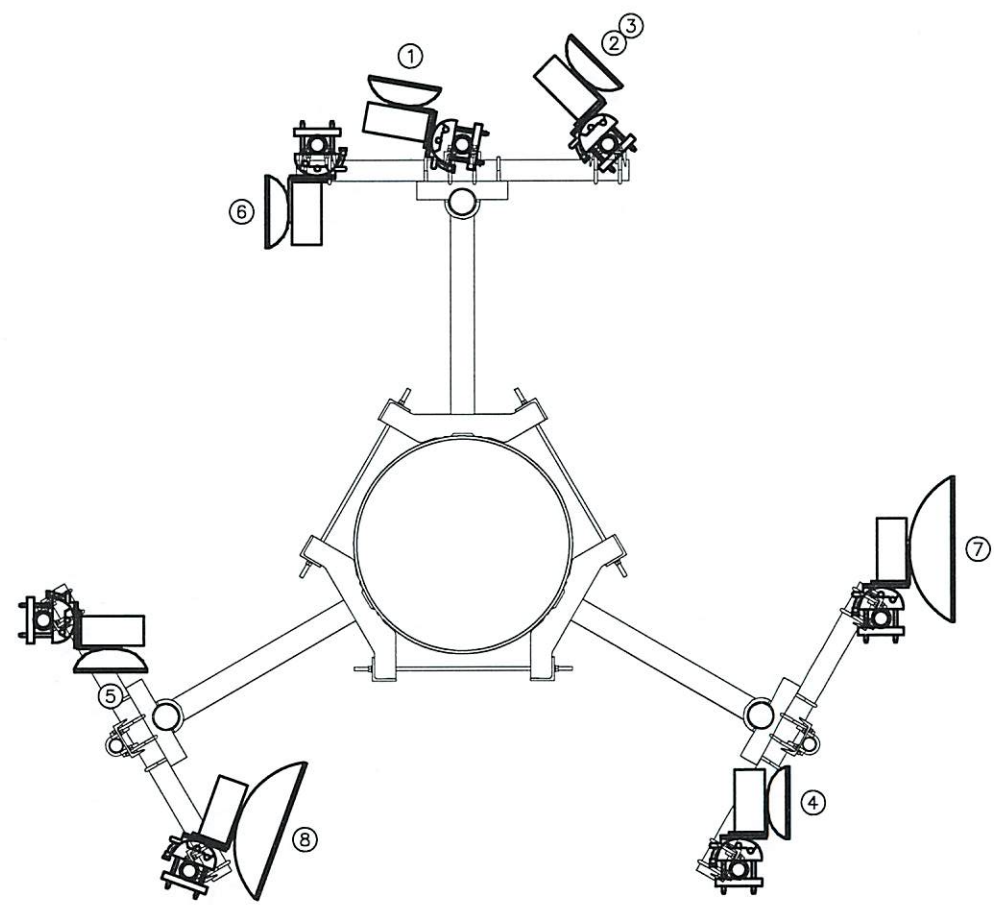
THESE DRAWINGS ARE NOT INTENDED TO REFLECT THE STRUCTURAL INTEGRITY OF THE TOWER. THE PROPOSED ANTENNAS AND TRANSMISSION LINES SHOWN ARE REPRESENTATIVE IN NATURE AND DO NOT REFLECT THE ACTUAL CONFIGURATIONS REQUIRED. THE CONTRACTOR SHALL REFER TO THE ORIGINAL TOWER DRAWINGS FOR THIS TOWER SITE TO DETERMINE ACTUAL TOWER CONDITIONS AND SPECIFICATIONS.

ANTENNA CHART				
ANTENNA	AZIMUTH	FREQUENCY	POLARIZATION	CENTERLINE
1	10°	UNK	UNK	119'
2	45°	UNK	UNK	121'
3	45°	UNK	UNK	119'
4	90°	UNK	UNK	121'
5	180°	UNK	UNK	121'
6	270°	UNK	UNK	121'
7	90°	UNK	UNK	120'
8	110°	UNK	UNK	120'

PROPOSED (1) ROSENBERGER WR-CAT5E10P & (1) ROSENBERGER WR-CAT5E4P  
 PROPOSED VIVINT CABINET



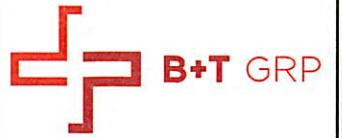
**1** TOWER ELEVATION  
 SCALE: N.T.S.



**2** PROPOSED ANTENNA AZIMUTH PLAN  
 SCALE: N.T.S.



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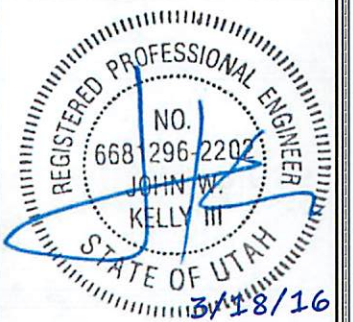
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SHEET NUMBER: REVISION:

**C-5**      **0**

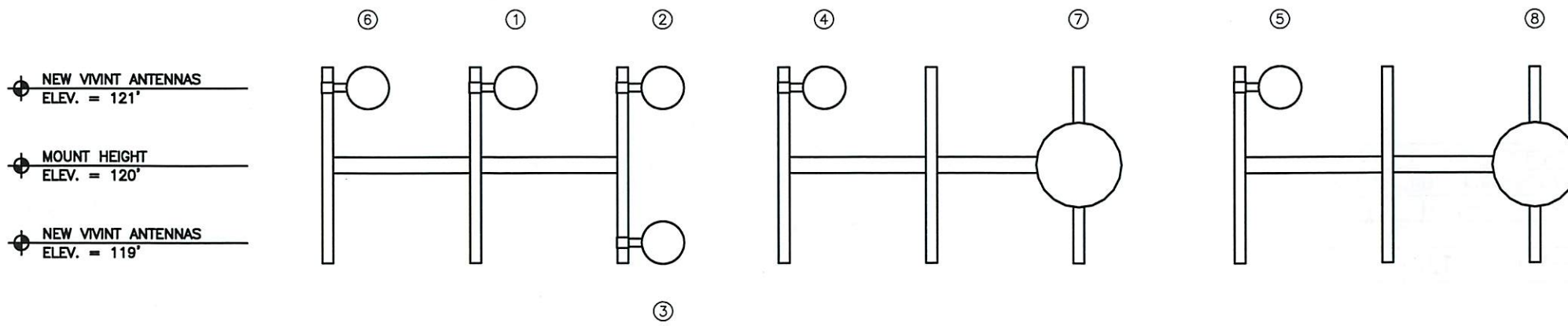
ANTENNA CHART				
ANTENNA	AZIMUTH	FREQUENCY	POLARIZATION	CENTERLINE
1	10°	UNK	UNK	121'
2	45°	UNK	UNK	121'
3	45°	UNK	UNK	119'
4	90°	UNK	UNK	121'
5	180°	UNK	UNK	121'
6	270°	UNK	UNK	121'
7	90°	UNK	UNK	120'
8	110°	UNK	UNK	120'

COLOR CODE	
BAND 1: SECTION	
ALPHA	= RED
BETA	= BLUE
GAMMA	= GREEN
BAND 2: POSITION	
1	= RED
2	= BLUE
3	= GREEN
BAND 3: POLARITY	
H	= RED
V	= BLUE
BAND 4:	
AP	= RED
RT	= BLUE

ALPHA SECTOR

BETA SECTOR

GAMMA SECTOR



**1** ANTENNA PROFILE DETAIL  
 SCALE: N.T.S.



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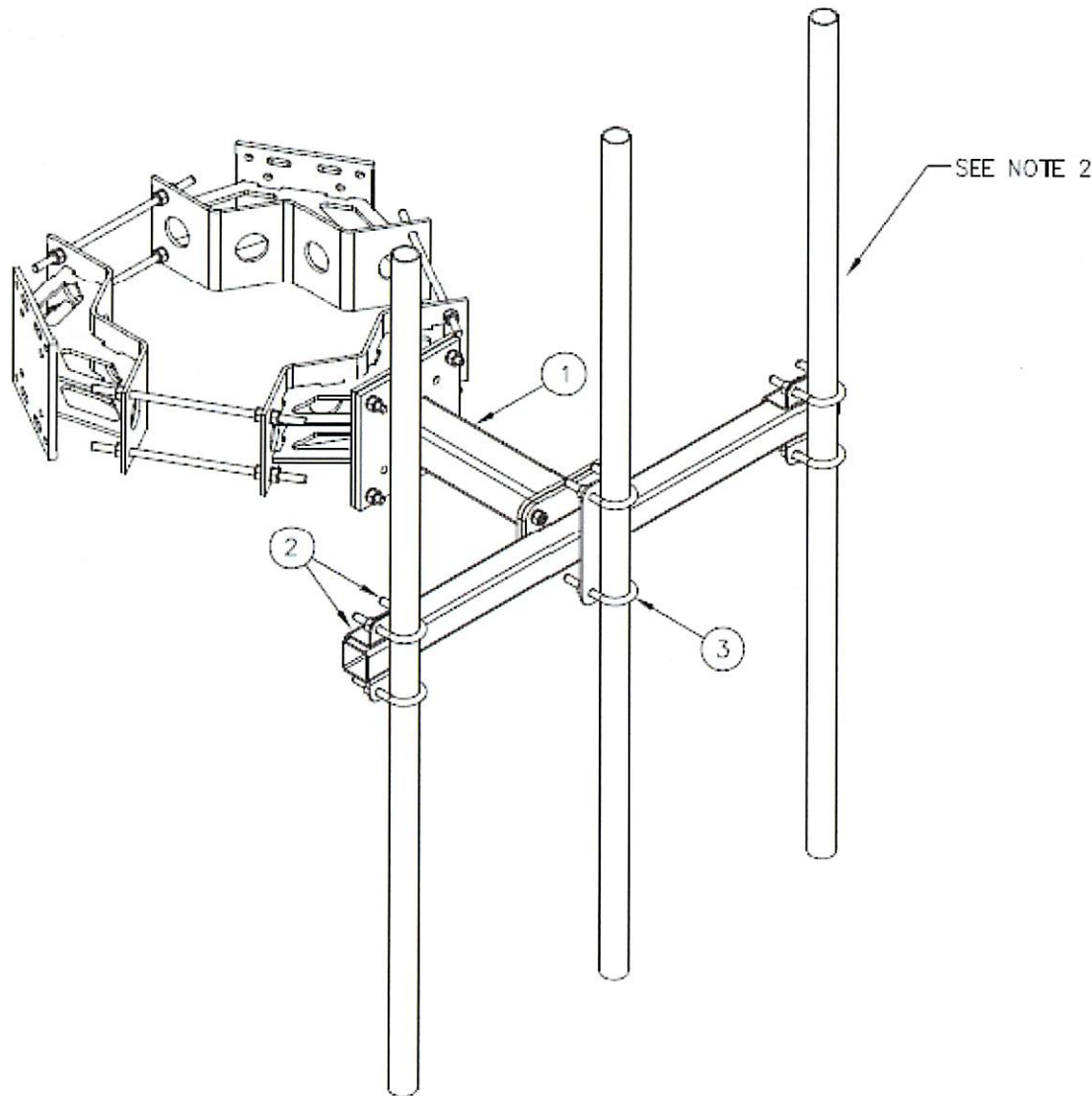


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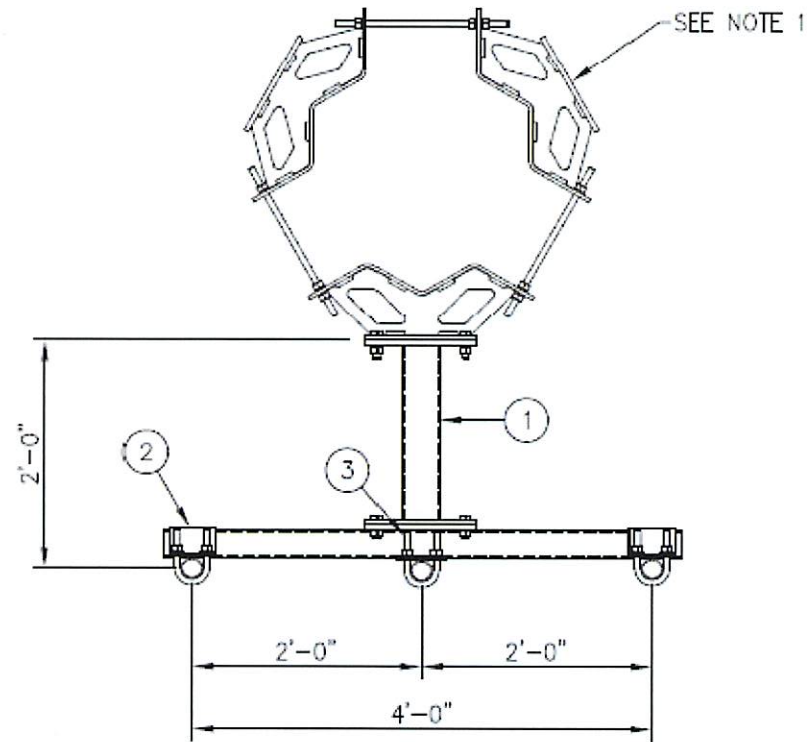
SHEET NUMBER: **C-6** REVISION: **0**

C10113465 T-ARM ASSEMBLY

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT
1.	1	C10113405	KIT, 4'-6" T-ARM	93
2.	2	C40207001	KIT, PIPE MOUNT (CLAMP + 2 U-BOLTS)	12
3.	2	C10031023	U-BOLT ASSEMBLY, 5/8 # X 3 1/16 C-C	3
TOTAL WEIGHT				108



ISOMETRIC VIEW



PLAN VIEW

**1** ANTENNA MOUNT SPECS  
 SCALE: N.T.S.

105242.001\_310320\_North Ogdren ATC.dwg - Sheet: C-6 - User: cblount - Mar 21, 2016 - 11:39am



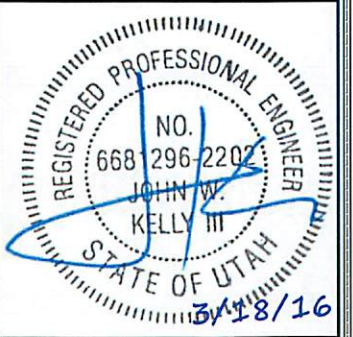
PROJECT NO: 105242.001

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ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
A	3/10/16	SMM	PRELIMINARY REVIEW
0	3/18/16	SMM	CONSTRUCTION

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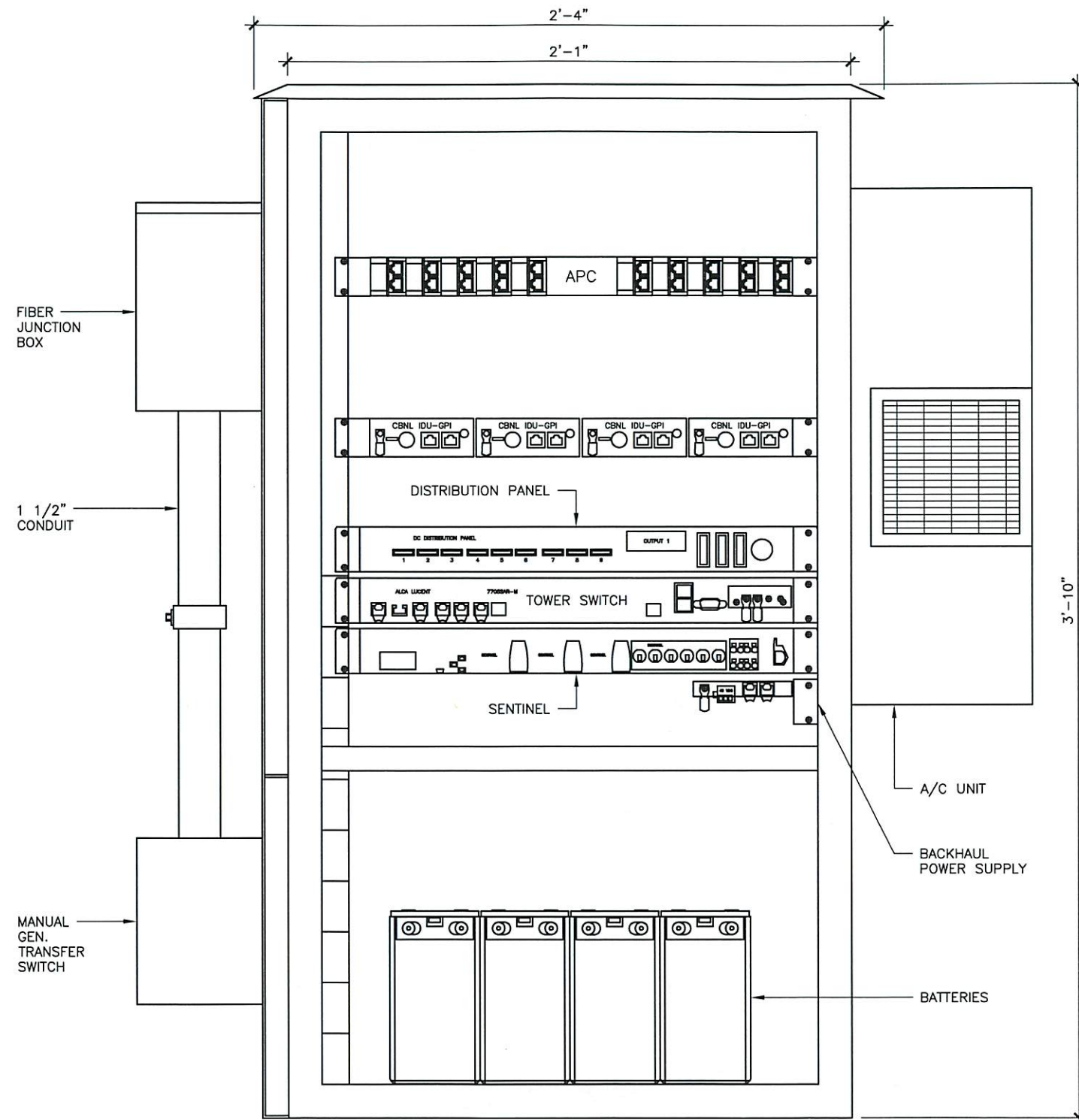
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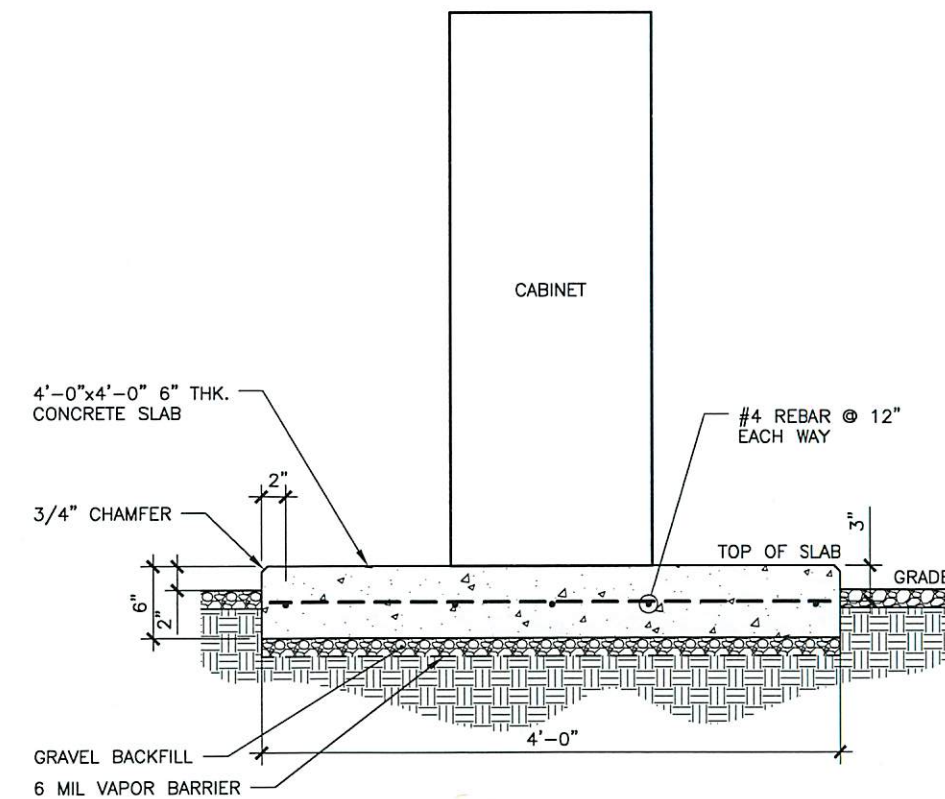
**C-7** **0**



2 EQUIPMENT CABINET  
 SCALE: N.T.S.



1 CABINET DETAIL  
 SCALE: N.T.S.



3 EQUIPMENT MOUNTING DETAIL  
 SCALE: N.T.S.



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310320  
**NORTH OGDEN**  
 2367 N RULON WHITE BLVD  
 OGDEN, UT 84404  
 EXISTING MONOPOLE

PROJECT NO: 105242.001  
 CHECKED BY: CWB

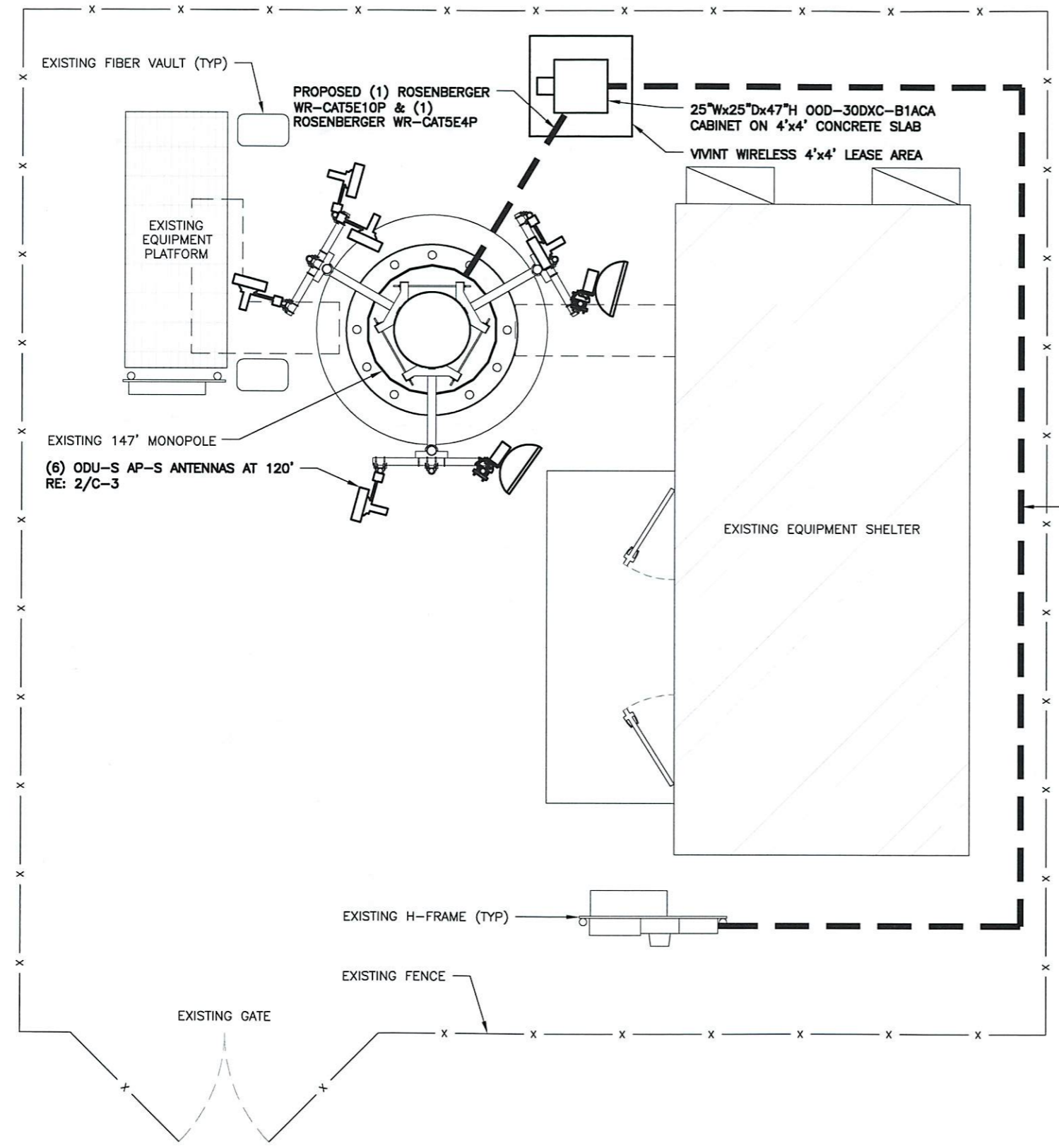
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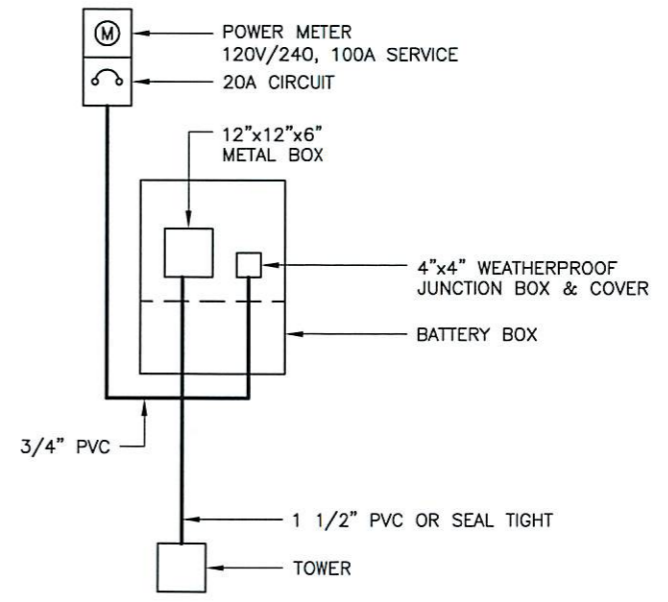


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SHEET NUMBER: **E-1** REVISION: **0**



**1** ELECTRICAL PLAN  
 SCALE: 0' 1' 5' 10'



**2** ONE LINE DIAGRAM  
 SCALE: N.T.S.

105242.001\_310320\_North Ogdren ATC.dwg - Sheet: E-1 - User: cblount - Mar 21, 2016 - 11:39am

ELECTRICAL INSTALLATION NOTES:

ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.

CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED.

WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC. HILTI EPOXY ANCHORS ARE REQUIRED BY CROWN CASTLE.

ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.

CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.

EACH END OF EVERY POWER, POWER PHASE CONDUCTOR (I.E., HOTS), GROUNDING AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA.

ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH PLASTIC TAPE PER COLOR SCHEDULE. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (I.E. PANEL BOARD AND CIRCUIT ID'S).

PANEL BOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.

ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.

POWER, CONTROL AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET & DRY) OPERATION LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED UNLESS OTHERWISE SPECIFIED.

SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET AND DRY) OPERATION LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED UNLESS OTHERWISE SPECIFIED.

POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET AND DRY) OPERATION WITH OUTER JACKET LISTED OR LABELED FOR THE LOCATION USED UNLESS OTHERWISE SPECIFIED.

ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75° C (90° C IF AVAILABLE).

RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.

ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E. RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.

ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT) OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.

SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT.

LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.

CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.

CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.

WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER).

CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED FLUSH TO FINISH GRADE TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHIN ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKNUT ON OUTSIDE AND INSIDE.

ELECTRICAL INSTALLATION NOTES (CONT.):

EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL. SHALL MEET OR EXCEED UL 50 AND RATED NEMA 1 (OR BETTER) INDOORS OR NEMA 3R (OR BETTER) OUTDOORS.

METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.

NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.

THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.

THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.

INSTALL PLASTIC LABEL ON THE METER CENTER TO SHOW "VIVINT WIRELESS".

ALL CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.

ELECTRICAL/TELEPHONE/SITE NOTES:

- PERFORM DETAILED VERIFICATION OF WORK PRIOR TO ORDERING THE ELECTRICAL EQUIPMENT AND COMMENCING CONSTRUCTION. NOTIFY VIVINT WIRELESS OF ANY DISCREPANCIES.
- PRIOR TO BEGINNING WORK, COORDINATE ALL POWER AND TELCO WORK WITH THE LOCAL UTILITY COMPANY AS IT MAY APPLY TO THIS SITE. ALL WORK TO COMPLY WITH THE RULES AND REGULATIONS OF THE UTILITIES INVOLVED.
- RUN TELEPHONE FROM EXISTING PEDESTAL OR TELEPHONE BOARD TO PPC LOCATION. CONTRACTOR SHALL FIELD VERIFY EXACT ROUTING OF POWER AND TELCO. FOLLOW ALL APPLICABLE LOCAL CODES AND UTILITY REQUIREMENTS.
- FABRICATION AND INSTALLATION OF THE COMPLETE ELECTRICAL SYSTEM SHALL BE DONE IN A FIRST CLASS WORKSHOP BY QUALIFIED PERSONNEL EXPERIENCED IN SUCH WORK.
- PROVIDE 2" CONDUIT EQUIPPED WITH ONE PULL STRING AND ONE 1" INNERDUCT. ALL TELEPHONE CONDUITS AND TELEPHONE WIRING MUST MAINTAIN A MINIMUM SEPARATION DISTANCE OF 18" AWAY FROM ALL A/C POWER CONDUITS AND WIRING.
- CONTRACTOR TO PROVIDE 1" CONDUIT FOR POWER ROUTING TO CABINET.
- ALL ELECTRICAL WORK SHALL CONFORM TO THE EDITION OF THE NEC ACCEPTED BY THE LOCAL JURISDICTION AND TO THE APPLICABLE LOCAL CODES AND REGULATIONS.
- SCHEDULE THE WORK IN AN ORDERLY MANNER SO AS NOT TO IMPEDE PROGRESS OF THE PROJECT.
- CONTRACTOR TO VERIFY AZIMUTHS WITH FINAL RF DATA SHEET FROM RF ENGINEER.

GREENFIELD GROUNDING NOTES:

ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.

THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS, THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.

THE SUBCONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS.

METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.

METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.

EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS; #2 AWG SOLID TINNED COPPER FOR OUTDOOR BTS.

CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE PERMITTED.

ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 AWG SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.

ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.

USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.

EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.

ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.

COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.

ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.

APPROVED ANTIOXIDANT COATINGS (I.E. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.

ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WIT A CORROSION RESISTANT MATERIAL.

MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.

BOND ALL METALLIC OBJECTS WITHIN 6 FT. OF MAIN GROUND WIRES WITH 1-#2 AWG TIN-PLATED COPPER GROUND CONDUCTOR.

GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS, WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (E.G., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.

ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE MUST BE #2 TINNED SOLID IN 3/4" LIQUID TIGHT CONDUIT FROM 24" BELOW GRADE TO WITHIN 3" TO 6" OF CAD-WELD TERMINATION POINT. THE EXPOSED END OF THE LIQUID TIGHT CONDUIT MUST BE SEALED WITH SILICONE CAULK. (ADD TRANSITIONING GROUND STANDARD DETAIL AS WELL).



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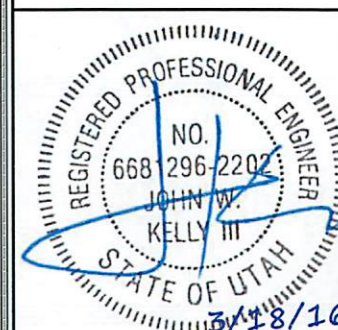
310320  
**NORTH OGDEN**  
 2367 N RULON WHITE BLVD  
 OGDEN, UT 84404  
 EXISTING MONOPOLE

PROJECT NO: 105242.001

CHECKED BY: CWB

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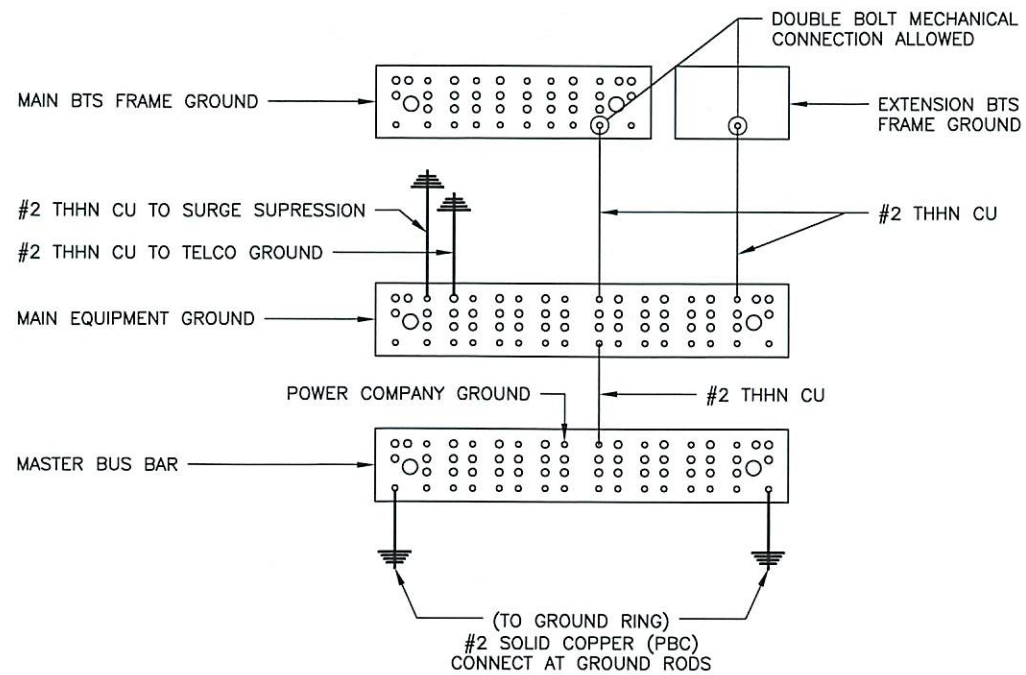


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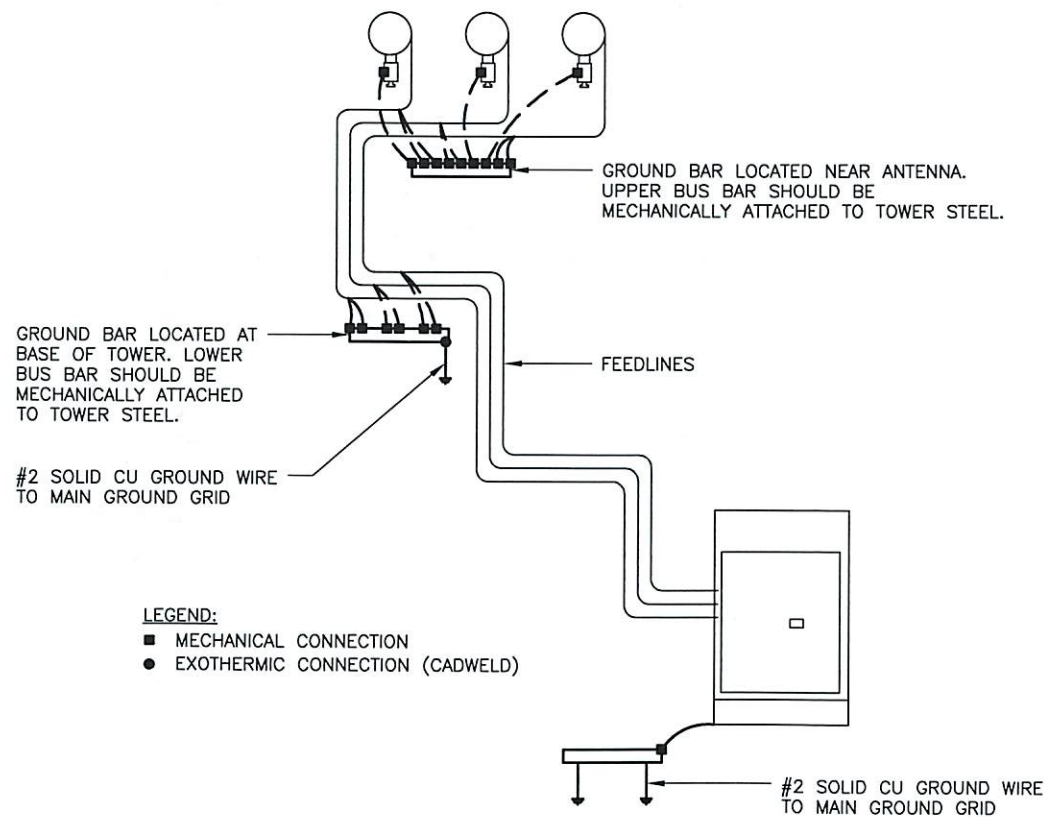
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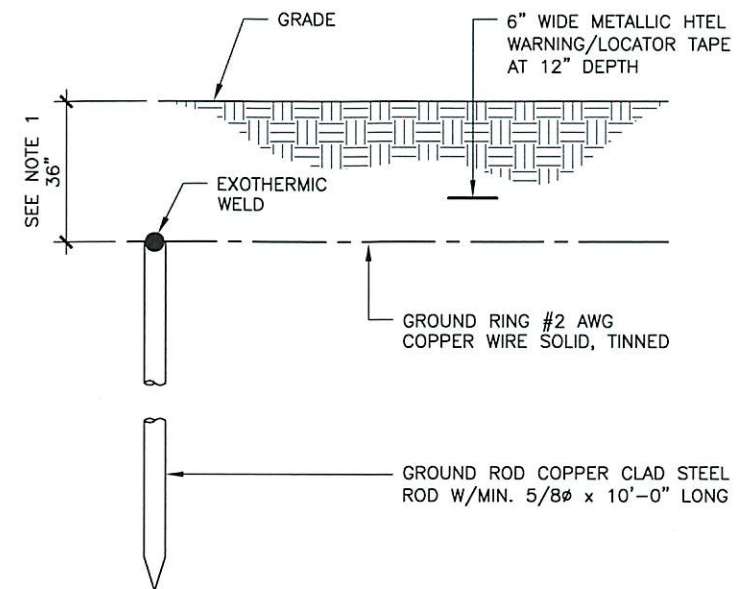
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**1** ANTENNA GROUNDING DIAGRAM  
SCALE: N.T.S.

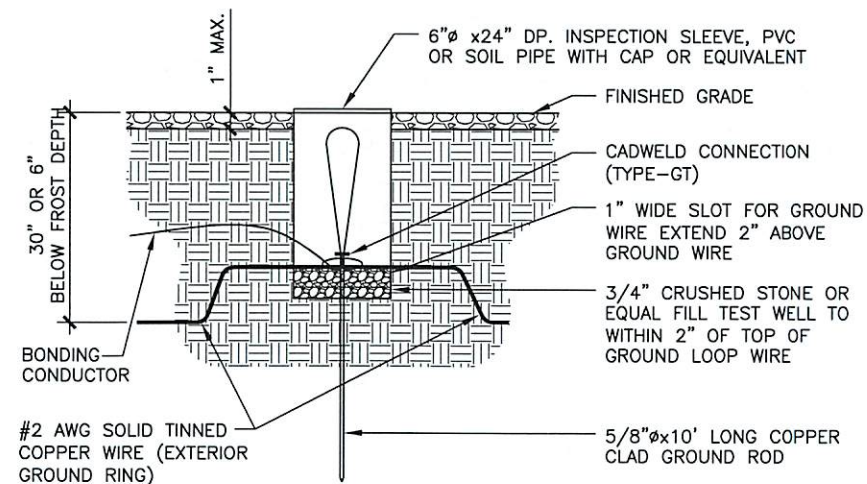


**2** GROUNDING SCHEMATIC  
SCALE: N.T.S.



**NOTE:**  
1. GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE VERTICAL.

**3** GROUND ROD DETAIL  
SCALE: N.T.S.



**4** INSPECTION WELL DETAIL  
SCALE: N.T.S.



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2367 N RULON WHITE BLVD  
ODGEN, UT 84404  
EXISTING MONOPOLE

PROJECT NO: 105242.001  
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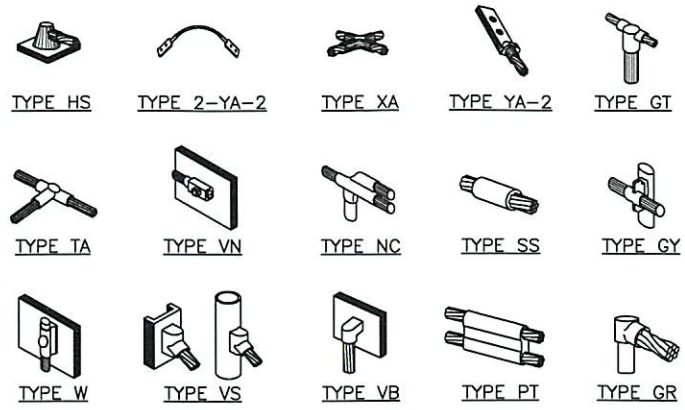
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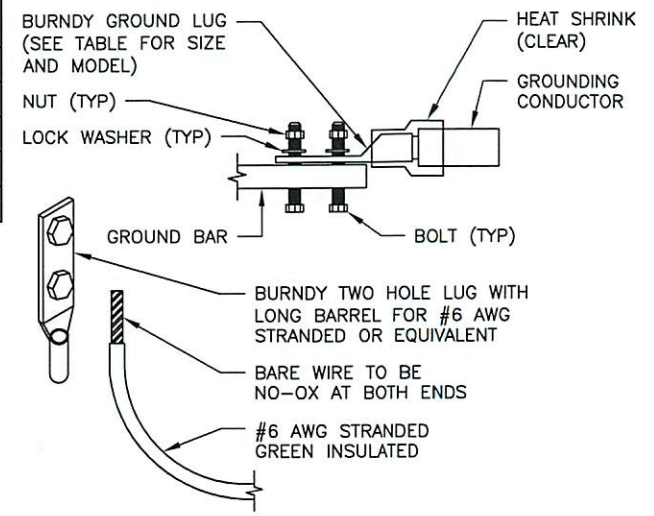


**NOTE:**  
 ERICO EXOTHERMIC "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH PROJECT MANAGER FOR SPECIFIC MOLDS TO BE USED FOR THIS PROJECT.

**1 CADWELD GROUNDING CONNECTIONS**  
 SCALE: N.T.S.

WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG SOLID TINNED	YA3C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG STRANDED	YA2C-2TC38	3/8" - 16 NC S 2 BOLT
#2/0 AWG STRANDED	YA26-2TC38	3/8" - 16 NC S 2 BOLT
#4/0 AWG STRANDED	YA28-2N	1/2" - 16 NC S 2 BOLT

- NOTES:**
- ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER, GROUND BAR, GROUND LUG, FLAT WASHER AND NUT.
  - COPPER SHIELD, ANTIOX, CR NO-OX OR EQUIVALENT SHALL BE PLACE WHERE ALL DISSIMILAR METALS CONNECT.
  - ALL LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.



**2 MECHANICAL LUG CONNECTION**  
 SCALE: N.T.S.



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