

STATE OF CONNECTICUT CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051
Phone: (860) 827-2935 Fax: (860) 827-2950
E-Mail: siting.council@ct.gov
Web Site: portal.ct.gov/csc

VIA ELECTRONIC MAIL

October 6, 2020

Anne Marie Zsamba Site Acquisition Specialist 3 Corporate Park Drive, Suite 101 Clifton Park, NY 12065

RE: **EM-AT&T-061-200909** – AT&T notice of intent to modify an existing telecommunications facility located at 65 Maple Avenue West, Haddam, Connecticut.

Dear Ms. Zsamba:

The Connecticut Siting Council (Council) is in receipt of your correspondence of October 2, 2020 submitted in response to the Council's September 24, 2020 notification of an incomplete request for exempt modification with regard to the above-referenced matter.

The submission renders the request for exempt modification complete and the Council will process the request in accordance with the Federal Communications Commission 60-day timeframe.

Thank you for your attention and cooperation.

Sincerely,

s/Melanie A. Bachman

Melanie A. Bachman Executive Director

MAB/IN/emr





October 2, 2020

Melanie A. Bachman Executive Director Connecticut Siting Council 10 Franklin Square New Britain, CT 06051

RE: **EM-AT&T-061-200909** – AT&T notice of intent to modify an existing telecommunications facility located at 65 Maple Avenue West, Haddam, Connecticut

Dear Ms. Bachman:

I am in receipt of your notice of incomplete correspondence dated September 24, 2020 for the above noted telecommunication filing. Enclosed please find the following:

- A) The property card for 65 Maple Avenue West
- B) Revised construction drawings which reflect the address for the telecommunications facility as 65 Maple Avenue West
- C) Fedex tracking as proof of service upon the underlying property owner for 65 Maple Avenue West

Please confirm this now renders the filing complete. Thank you.

Sincerely,

Anne Marie Zsamba

Anne Marie Zsamba Site Acquisition Specialist 3 Corporate Park Drive, Suite 101, Clifton Park, NY 12065 (201) 236-9224 annemarie.zsamba@crowncastle.com

Enclosure

The Assessor's office is responsible for the maintenance of records on the ownership of properties. Assessments are computed at 70% of the estimated market value of real property at the time of the last revaluation which was 2015.





Information on the Property Records for the Municipality of Haddam was last updated on 9/23/2020.

Parcel Information

Location:	65 MAPLE AVE WEST UNIT C	Property Use:	Vacant Land	Primary Use:	Cell Tower
Unique ID:	MT380800	Map Block Lot:	23 001 1 C	Acres:	1.25
490 Acres:	0.00	Zone:	R-2	Volume / Page:	0336/0559
Developers Map / Lot:		Census:	5901		

Value Information

	Appraised Value	Assessed Value
Land	187,500	131,250
Buildings	0	0
Detached Outbuildings	188,860	132,200
Total	376,360	263,450

Owner's Information

Owner's Data

DAMICO LOUIS W JR + DAMICO ENZO C/O CROWN ATLANTIC CO LLC PMB 3 4017 WASHINGTON RD MCMURRAY, PA 15317

Detached Outbuildings

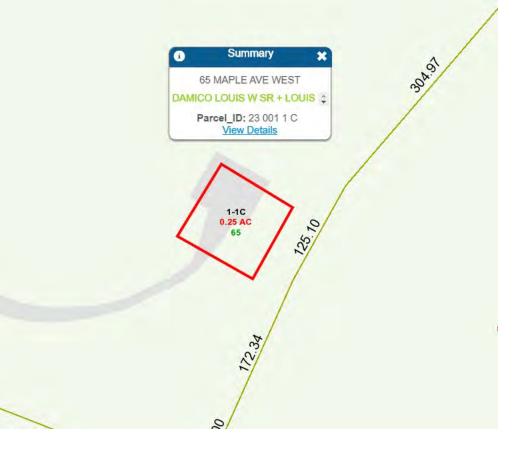
Турез	Year Built:	Length:	Width:	Areas
8 Ft Chain Fence	2007	0.00	0.00	2,240
Cell Shed	2007	0.00	0.00	580

Owner History - Sales

Owner Name	Volume	Page	Sale Date	Deed Type	Valid Sale	Sale Price
DAMICO LOUIS W JR + DAMICO ENZO	0336	0559	04/05/2010		No	\$0
DAMICO LOUIS W SR + LOUIS W JR	0305	0805	10/10/2006		No	\$0
DAMICO LOUIS W & MARJORY C DAMICO FAMILY	0256	0789	01/27/2003		No	\$0
DAMICO LOUIS W	0233	1040	12/21/2000		No	\$0

Building Permits

Permit Number	Permit Type	Date Opened	Date Closed	Permit Status	Reason
8980	Unknown	12/05/2007		Closed	MOUNT 2 ANTENNAS ON EXIST TOWE



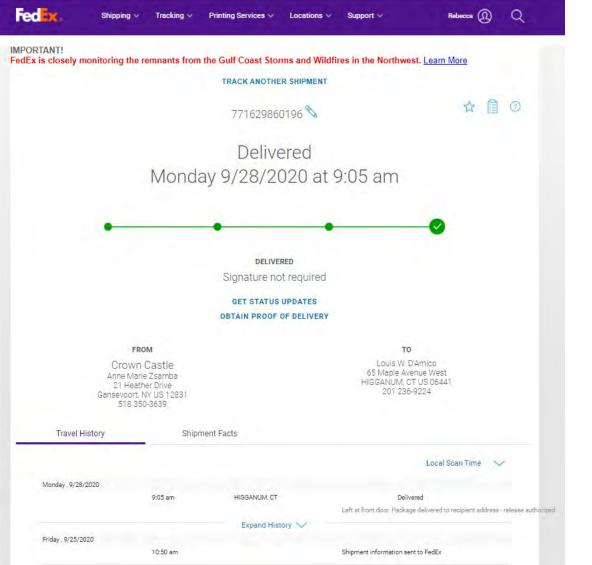


After printing this label:

- 1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
- 2. Fold the printed page along the horizontal line.
- 3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



AT&T SITE NUMBER: CT5386

AT&T SITE NAME: HADDAM NORTH CENTRAL

AT&T FA CODE: 10091802

SITE INFORMATION

MIDDLESEX

CROWN CASTLE

AT&T MOBILITY

2000 CORPORATE DRIVE CANONSBURG, PA 15317

ONE AT&T WAY BEDMINSTER, NJ 07921

EXISTING

41.484594

-72.572447

NAD83

IIB

65 MAPLE AVENUE WEST

FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION

HIGGANUM, CT 06441

CROWN CASTLE USA INC.

AREA OF CONSTRUCTION:

TYPE OF CONSTRUCTION:

A.D.A. COMPLIANCE:

CARRIER/APPLICANT:

CROWN CASTLE USA INC. APPLICATION ID:

OCCUPANCY CLASSIFICATION: U

SITE NAME: SITE ADDRESS:

COUNTY:

LATITUDE:

LONGITUDE:

LAT/LONG TYPE:

TOWER OWNER

AT&T PACE NUMBER: MRCTB047307

MONOPOLE SITE TYPE:

BUSINESS UNIT #: 806367

SITE ADDRESS: 65 MAPLE AVENUE WEST

LOCATION MAP

HIGGANUM, CT 06441

MIDDLESEX

115'-6" **TOWER HEIGHT:**

COUNTY:

3200 HORIZON DRIVE, SUITE 150 KING OF PRUSSIA, PA 19406 B+T GRP

> AT&T SITE NUMBER: CT5386

ONE AT&T WAY BEDMINSTER, NJ 07921

CROWN

1717 S. BOULDER SUITE 300 TULSA, OK 74119 PH: (918) 587-4630

BU #: 806367 HRT 046 943209

65 MAPLE AVENUE WEST HIGGANUM, CT 06441

> EXISTING 115'-6" MONOPOLE

	ISSUED FOR:								
REV	DATE	DRWN	DESCRIPTION	DES./QA					
0	6/17/20	STH	CONSTRUCTION	FWP					
1	7/11/20	GEH	CONSTRUCTION	GEH					
2	9/29/20	MLC	CONSTRUCTION	MIJ					

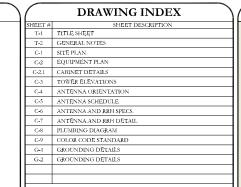


B&T ENGINEERING, INC. PEC.0001564 Expires 2/10/21

IT IS A VIOLATION OF LAW FOR ANY PERSON, NLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROPESSIONAL ENGINEER.

SHEET NUMBER:

PROJECT: AT&T LTE 5C



ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR 11x17. CONTRACTOR SHALL VERIEV ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIF THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME

PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT IS TO PROPOSE AN ANTENNA MODIFICATION ON AN EXISTING WIRELESS SITE.

TOWER SCOPE OF WORK RELOCATE (3) ERICSSON 8843 B2/B66A RRHS

GROUND SCOPE OF WORK

INSTALL (3) ERICSSON 4478 B14 RRHS
 INSTALL (1) IDLe

INSTALL (1) IDLE
 INSTALL (1) PURCELL FLX12-2420 CABINET

(918) 217-8574 3200 HORIZON SRIVE, SUITE 150

PROJECT TEAM

B+T GROUP 1717 SOUTH BOULDER, SUITE 300 TULSA, OK 74119

CROWN CASTLE USA INC. DISTRICT CONTACTS: KING OF PRUSSIA, PA 19406

> DESIGN PACKAGE BASED DESIGN PACKAGE BASED ON THE REDS DATE: 3/25/20

ON THE APPLICATION REVISION: 0

APPLICABLE CODES/REFERENCE DOCUMENTS

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:

MECHANICAL ELECTRICAL

REFERENCE DOCUMENTS STRUCTURAL ANALYSIS:

> MOUNT ANALYSIS: TOWER ENGINEERING PROFESSIONALS

CALL CONNECTICUT ONE CALL (800) 922-4455 CALL 3 WORKING DAYS

PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN NOC AT (800) 788-7011 & CROWN CONSTRUCTION

BEFORE YOU DIG!



A&E FIRM:

- ALL SUSTING ACTIVE SEME, WATER, CAS. ELECTRIC AND UTHER UTILITIES WHERE EXCOUNTEDED BY THE WORK, SVALL BE PROTECTED AT ALL THUS AND WHERE EXCURED CONTRACTOR, EXTERNE CAUTION SHALL BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRIVEN CHARLES AND WIND RESEARCH WHEN EXCAVATING OR DRIVEN PIERS AROUND OR NEAR UTILITIES, SUBCONTRACTOR SHALL PROVIDE SAFETY BILLING FOR THE WORKING CORE, IT HIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING
- ALL SITE WORK TO COMPLY WITH OAS-STD-10068 "INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON CROWN CASTLE USA INC. TOWER SITE." AND LATEST VERSION OF TAIL 1019 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS."
- ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS.
- IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- ALL EXISTING INACTIVE SEWER, WATER, GAS, LECENTIC AND OTHER UTILITIES, WHICH INTERFER WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWIS ENSORMINED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, OWNER AND/OR LOCAL UTILITIES.
- THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE.
- THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
- NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
- THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
- 11. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE PROJECT SPECIFICATIONS.
- 12. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL. MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
- NOTICE TO PROCEED- NO WORK TO COMMENCE PRIOR TO COMPANY'S WRITTEN NOTICE TO PROCEED AND THE ISSUANCE OF A PURCHASE ORDER.
- 14. ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLUBING PLANS, AND RESCUE PLANS SHALL BET HE WORK CONTAINED HERBEN AND SHALL MEET HE WORK CONTAINED HERBEN AND SHALL MEET HAS ASSESSED AND A MICHAEL STATE, AND LOCAL REQULATIONS; AND ANY APPLICABLE MOUSTRY CONSENSUS STANDARDS RELATED TO THE CONSTRUCTION ACTURITIES BEING PERFORMED. ALL REGIONS PLANS SHALL ADHERE TO ANS/ASSE A10.48 (LATEST EDITION) AND CROWN STANDARD CED-STD-10253 MICLUIDNOT THE REQUIRED MANGER FOR GLASS IT. CONSTRUCTION TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH THE ANSI/TIA-322 (LATEST EDITION).

STRUCTURAL STEEL NOTES:

- ALL STEEL WORK SHALL BE PAINTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND IN ACCORDANCE WITH ASTM A36 UNLESS OTHERWISE NOTED.
- BOLTED CONNECTIONS SHALL BE ASTM A325 BEARING TYPE (3/4"ø) CONNECTIONS AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
- NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8"Ø ASTM A307 BOLTS UNLESS NOTED OTHERWISE.
- INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER INSTALLATION OF CONCRETE EXPANSION/RELIGE. ANOTHER, SMALL BE FIRST OR RECOMMENDED PROCEDURE. THE ANOTHER BOLL TOWN OF THE PROPERTY OF AS SHOWN ON THE DRAWNESS. NO REBAR SHALL BE CUT WITHOUT PRICE CONTRACTOR APPROVAL HERE OR DRILLING HOLDER OCKRETE. SPECIAL INSPECTIONS, REQUIRED BY GOVERNOR CODES, SHOWN OF THE DRAWNESS. OF CONCRETE SPECIAL INSPECTIONS, REQUIRED BY GOVERNOR CODES SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS.

CONCRETE AND REINFORCING STEEL NOTES:

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST—IN-PLACE CONCRETE.
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE. SLAB FOUNDATION DESIGN ASSUMING ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF.
- REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "8" AND ALL HOOKS SHALL BE STANDARD, UND.
- THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:

A CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE. IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

MASONRY NOTES:

- HOLLOW CONCRETE MASONRY UNITS SHALL MEET A.S.T.M. SPECIFICATION C90, GRADE N. TYPE 1. THE SPECIFIED DESIGN COMPRESSIVE STRENGTH OF CONCRETE MASONRY (F'm) SHALL BE 1500 PSI.
- MORTAR SHALL MEET THE PROPERTY SPECIFICATION OF A.S.T.M. C270 TYP. "S" MORTAR AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
- GROUT SHALL MEET A.S.T.M. SPECIFICATION C475 AND HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2000 PSI.
- 4. CONCRETE MASONRY SHALL BE LAID IN RUNNING (COMMON) BOND.
- WALL SHALL RECEIVE TEMPORARY BRACING, TEMPORARY BRACING SHALL NOT BE REMOVED UNTIL GROUT IS FULLY CURED.

GENERAL NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY: SUPPORT OF THE PURPOSE OF TH

- PRIOR TO THE SUBMISSION OF BIOS, THE BIDDING SUBCONTRACTOR SHALL WSIT THE CELL SITE TO FAMILIARIZE WITH THE ENSTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR AND GROWN CASTLE USA INC.
- ALL MATERIAS PURPOSHED AND INSTALES SHALL BE IN STRET ECCOPROMOC WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES, GIRCONTROCTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY RECORDING THE PERFORMANCE OF THE WORK, ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPIA. AND UTILITY COMPANY SPECIFICATIONS AND LOCAL VIRSISSICITIONAL CODES, ORDINANCES AND
- DRAWINGS PROVIDED HERE ARE NOT TO SCALE AND ARE INTENDED TO SHOW OUTLINE ONLY.
- "KITTING LIST" SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE SUBCONTRACTOR.
- THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- 8. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR AND CROWN CASTLE USA INC. PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
- 10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
- 11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
- 12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.

ABBREVIATIONS AND SYMBOLS:

ABBREVIATIONS:

AGL ABOVE GRADE LEVEL BTS BASE TRANSCRIVER STATION EXISTING WINNING MIN. MININUM REF REFERENCE RADIO FREQUENCY RADIO FREQUENCY T.B.R. TO BE RESOLVED TYPY TYPICAL. T.B.D.
T.B.R.
TYP
REQ
EGR
AWG
MGB
EG
BCW
SIAD
GEN
IGR
RBS TYPICAL RESULTED TYPICAL RESULTED REQUIRED EQUIPMENT GROUND RING AMERICAN WIRE GAUGE MASTER GROUND BAR BARE COPPER WIRE SMART INTEGRATED ACCESS DEVICE GENERATOR INTERIOR GROUND RING (HALO) RADIO BASE STATON

SYMBOLS:

-S/G- SOLID GROUND BUS BAR -S/N- SOLID NEUTRAL BUS BAR SUPPLEMENTAL GROUND CONDUCTOR 2-POLE THERMAL-MAGNETIC CIRCUIT BREAKER

SINGLE-POLE THERMAL-MAGNETIC CIRCUIT BREAKER

0 CHEMICAL GROUND ROD

 \otimes TEST WELL

□→ DISCONNECT SWITCH

EXOTHERMIC WELD (CADWELD) (UNLESS OTHERWISE NOTED)

9 MECHANICAL CONNECTION

ELECTRICAL INSTALLATION NOTES:

- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.
- CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED.
- 4. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
- 5. CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
- 6. EACH END OF EVERY POWER, POWER PHASE CONDUCTOR (I.E., HOTS), GROUNDING AND TI CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-COOED 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, DWER CONFIGURATION, DWER OR AMAPACTIY 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.
- 9. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
- 10. POWER, CONTROL AND EQUIPMENT GROUND WIRNS IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (§14 AWG OR LARGER), 600 V, OIL RESISTANT THINN OR THINN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET A MY) OPERATION USED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED UNLESS OTHERWISE SPECIFIED.
- 11. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AMG OR LARGER), BOOV, OIL RESISTANT THHIN OR THWH-Z GREEN INSULATION LOLASS 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.
- 12. POWER AND CONTROL WRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TO CABLE (\$\frac{1}{4}\) AND OR LARGER), 600 V, OIL RESISTANT THEN OR THAN-2, CLASS B STRANGED COPPER GABLE RATED FOR 90° C (WET AND DRY) OFERATION WITH OUTER JACKET LISTED OR LABELED FOR THE LOCATION USED UNLESS OTHERWISES SPECIFICAL.
- 1.3. 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
- 14. 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.
- 16. ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT) OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
- 17. SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT.
- CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION—TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
- 20. CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
- 21. 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
- REAM 1 (UK BELIEK).

 2. CORDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED MON-PERFORATED STAPPS AND HANCERS. DPPLOSIVE DEVICES FOR ATTACHING HANCERS TO STRUCTURE, MILL NOT BE PREMITTED. CLOSEL FORLOW THE LINES OF THE STRUCTURE AMINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDITS IN TIGHT ENVELOPES. CHANCES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE AMOST MIT COMBER. PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CELING LINES, ALL CONDUIT SHALL BE FISHED TO CLEAR OSSTRUCTURE WALL AND CELING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OSSTRUCTIONS ENDS OF CONDUITS SHALL BE TEMPORABILY CAPPED FLUSH TO PRINCE ORDAY OF PREVENT CONCRETE, PLASTER OR CALVANIZED MALLEAGER (FOR DISHN) ON INSIDE AND GALVANIZED MALLEABLE RON LOCKINT ON OUTSIDE AMO INSIDE.
- 23. 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 7 (OR BETTER) OUTDOORS.
- 24. 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.
- 25. 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.
- 26. THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
- 27. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY.
- 28, INSTALL PLASTIC LABEL ON THE METER CENTER TO SHOW "AT&T".
- 29. ALL CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.

GREENFIELD GROUNDING NOTES:

- ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELLOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
- THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTAL THE SUBCONTRACTOR STALL PERFORM HELE PALL—OF—POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUNE 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.
- 6. EACH 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. 9. 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.
- 15. 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 WITH 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.
- 16. GROUND CONDUCTORE USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION STETALS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUCTS, METALLIC CONDUCTS, WELL SUPPORT CLUES OR SLEEPES THROUGH OF THE CONDUCT SHALL SHAL 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.
- 20. ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE MUST BE \$2 TINNED SOLID IN 3,74" LIQUID TIGHT COMDUIT 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

NEC INSULATOR COLOR CODE							
DESCRIPTION	PHASE/CODE LETTER	WIRE COLOR					
240/120 1Ø	LEG 1	BLACK					
240/120 19	LEG 2	RED					
AC NEUTRAL	N	WHITE					
GROUND (EGC)	G	GREEN					
VDC POS	+	*RED-POLARITY MARK AT TERMINATION					
VDC NEG	-	*BLACK-POLARITY MARK AT TERMINATION					
	PHASE A	BLACK					
240V OR 208V, 3Ø	PHASE B	RED(ORG. IF HI LEG)					
	PHASE C	BLUE					
	PHASE A	BROWN					
480V, 3Ø	PHASE B	ORANGE OR PURPLE					
	PHASE C	YELLOW					

* SEE NEC 210.5(C)(1) AND (2)



BEDMINSTER, NJ 07921



KING OF PRUSSIA, PA 19406



AT&T SITE NUMBER: CT5386

> BU #: 806367 HRT 046 943209

65 MAPLE AVENUE WEST HIGGANUM, CT 06441

> EXISTING 115'-6" MONOPOLE

		1		
REV	DATE	DRWN	DESCRIPTION	DES./QA
0	6/17/20	STH	CONSTRUCTION	FWP
1	7/11/20	GEH	CONSTRUCTION	GEH
2	9/29/20	MLC	CONSTRUCTION	MIJ
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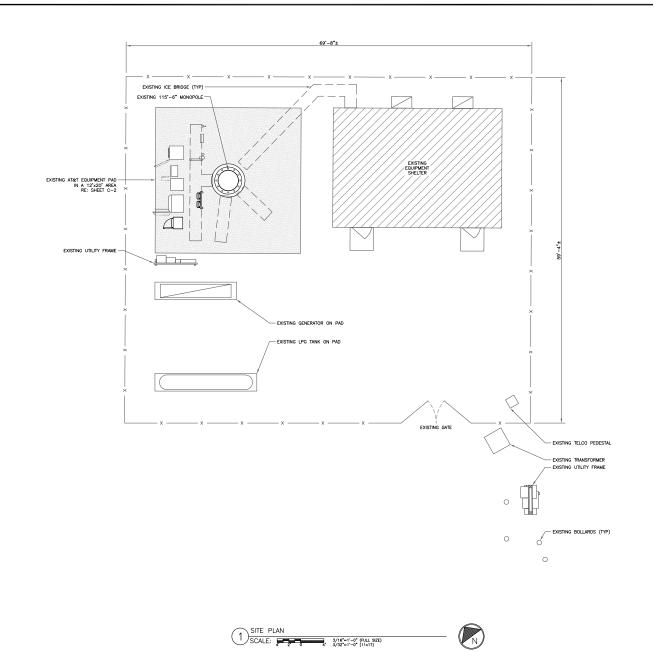


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3200 HORIZON DRIVE, SUITE 150 KING OF PRUSSIA, PA 19406



AT&T SITE NUMBER: CT5386

BU #: 806367 HRT 046 943209

65 MAPLE AVENUE WEST HIGGANUM, CT 06441

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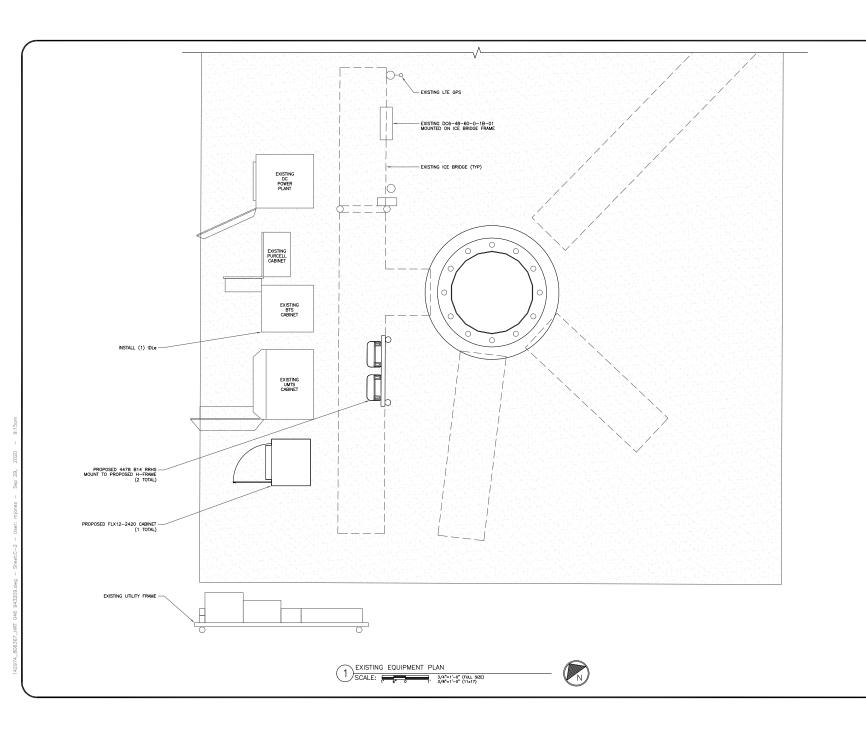


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FlexSure® FLX12-2420

Power and Equipment Enclosure Solutions

Purcell System's Flexible EncloSure (FlexSure®) solution architecture allows the rapid creation and growth of virtually any outdoor cabinet configuration by leveraging pre-engineered common interchangeable components. The FlexSure® series is available in 12, 16, 20, 25, and 36 RU equipment bay options.

FlexSure® enclosures are UL 508 Listed, and certified by independent third-party Nationally Recognized Testing Laboratories to Telcordia GR-487. A wide range of thermal management system technologies and capacities ensures that the equipment you deploy in the cabinet will operate within its design parameters with the highest reliability and lowest Total Cost of Ownership. Options include battery backup, AC/IDC power termination and distribution, cross connect and line protection, equipment and enclosure mounting features.

Applications

Provides a secure, thermally-controlled environment for any electronic equipment supporting a wide-range of Cable/MSO, Energy/Utility, Land Mobile Radio, Transportation, U.S. Government/Military, and Wireless and Wireline Telecommunication applications.

Product Features:

- Telcordia GR-487 certified, UL508 Listed
- Highly flexible and scalable
- · Energy efficient advanced thermal solutions
- Field upgradeable
- AC and DC power options
- · Pad, pole, wall, H-frame mounting options

The Purcell Advantage

Purcell Systems designs and manufactures thermally-managed outdoor enclosures that meet the exact needs of the enclosed equipment for network operators and utilities. Our enclosures provide comparable solutions to prefabricated buildings, containers and shetters at a fraction of the cost. Both standard and custom enclosures are delivered with the following capabilities:

Choice of Options: Pre-engineered and interchangeable modules provide optimal configurations with minimal cost and lead time.

Thermal Management: The industry's widest selection of heating and cooling systems ensures the most efficient thermal management solution with the lowest energy consumption.

Lowest Total Cost of Ownership: Engineering analysis and modeling ensures your enclosure configuration minimizes installation, maintenance, repair, capital, and operational

Equipment Integration and Staging: Electronic equipment can be staged and installed in our enclosures prior to final deployment and installation.

Fanatical Service®: A national service organization with 24/7/365 access means procurement, installation, support, and warranty requests are addressed immediately.

FlexSure® FLX12-2420

	ensions and Expansion (эрнопа		Thermal Management Systems			
Ex.	erior Dimensions		Rack Units	Air Conditioner	Heat Exchanger	Thermoelectric Coole	
No plinth	24"W x 20"D x 2 610mm x 508mm x	584mm					
4" plinth		24"W x 20"D x 27"H 610mm x 508mm x 686mm		2K BTU/585W with 500W	30 W/50	170W with lander	
14' yurth	24°W±20°D x 3 610mm x 508mm x	77H 940mm	1200				
13" Battery Base	24°W x 20°D x 36°H 610mm x 568mm x 914mm						
Specifications							
EXTERIOR		Mountin	Options .		Other Options		
Construction		• Anchor	Plate Kir for Co	ncrete Pad Mounting	Convenience Guriers:	15 or 20A, GFCI or	
• Frame: 0.125" Corrosio	n Resistant Aluminum;	• Polc Mo	ount Kit.		standard		
single wall construction		• Wall or	H Frame Moun	l Kit	Bonding and Grounding	ng: Copper isolated or	
· Finish: (//tra-fight gray	polyester powder coat	• Plinth: 4	l" or 14" (leight	, standard footprint	integrated, up to 15 positions		
· Weight (Base Configura	tion): 82 lbs	Corrosion inhibiting pad gasket		Alarm Blocks: Up to 16 positions (includes)			
Door/Side/Top Panels		Stack on FLX16-2520 or FLX12-2420 for		intrusion and thermal alarms)			
. Doors: Front and rear doors, left or right open;		increased capacity in same footprint		400 Watts -48VDC Fleater : 240 Watts +24VDC			
rear halch		INTERIOR			healer		
Door Handles: Pad-lock	able	Equipment Mounting		6" high demark box			
Door Hinges: Hidden hi	nges	■ 19" equipment rails, configurable locations		Cable access box (with battery pedestal)			
Cable Entry		front-to-back		Side chamber optional (left side)			
 Ingress/Egress: Knocko 	uts on bottom/sides	Second set of 19" 12RU equipment rails optional		Accessories: Optical fiber storage, Service light ,			
Battery Pedestal		AC Power Termination and Distribution		document holder, equipment security partitions			
 Ventilated compartment 		Load Center Location: internal to equipment bay		OTHER			
 13" Height: Supports ut 	to (4) 100Ahr 12 Volt	6 12 position internal toad centers		Agency Compliance			
batteries		Up to 30 Amp Main Breaker		Telcordia GR-487 Issue 2, Issue 3 Optional			
Battery heater mat. 130	Watts	Surge Protection Device (SPD)		◆ UL Listed — UL508A			
· Compatible with pad, p	ole, or wall/H frame	Generator Cable 15 Amp		mp	NEMA 3R		
mount		DC Powe	r Systems an	d Distribution	Environmental		
Side Chamber		Muftiple	suppliers and	configurations available	 IP Protection: Designe 	ed to IP 54	
 Side chamber: left side, 	12" depth	DC Dist	ribation: Up to:	20 positions	Maximum Farthouake	Risk 7one-4 (as per	
					Telcordia GP-63)		
					Warranty	-	
					• 5 Years on Enchance	1 Year on Thermal System	



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KING OF PRUSSIA, PA 19406



AT&T SITE NUMBER: CT5386

> BU #: 806367 HRT 046 943209

65 MAPLE AVENUE WEST HIGGANUM, CT 06441

> EXISTING 115'-6" MONOPOLE

	ISSUED FOR:							
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2	9/29/20	MLC	CONSTRUCTION	MIJ				

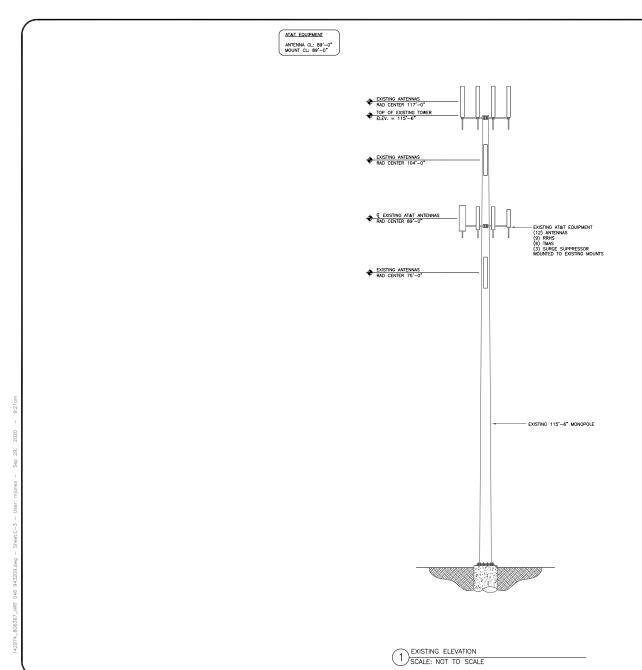


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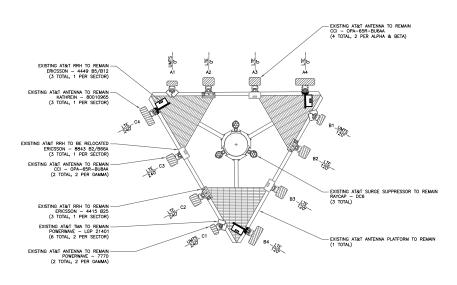


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SHEET NUMBER:



EXISTING ANTENNA LAYOUT

SCALE: 2 1 3/8"-1"-0" (FULL SIZE)

3/16"-1"-0" (11x17)

— N

EXISTING AT&T REPL
ENCISTING AT&T REPL
ENCISTING AT&T ANTENNA
KATHERIN - BOOTIONS
CI - OPA-65R-BUBAA
(2 TOTAL, 2 PER ALPHA & BETA)

POSTING AT&T ANTENNA
KATHERIN - BOOTIONS
(3 TOTAL, 1 PER SECTOR)

EXISTING AT&T ANTENNA
CI - OPA-65R-BUBAA
(2 TOTAL, 2 PER ALPHA & BETA)

EXISTING AT&T ANTENNA
CI - OPA-65R-BUBAA
(2 TOTAL, 2 PER CAMMA)

EXISTING AT&T REPL
ENCISSON - 4415 B25
(3 TOTAL, 1 PER SECTOR)

EXISTING AT&T REPL
ENCISSON - 4415 B25
(3 TOTAL, 1 PER SECTOR)

EXISTING AT&T TRA
POWERWAVE - CSP 2 1401
(6 TOTAL, 2 PER SECTOR)

FINAL ANTENNA LAYOUT

SCALE:

| 3/6"=1"-0" (FULL SIZE) | 3/6"=1"-0" (11x17) | 3/6"=1" (11

EXISTING AT&T ANTENNA POWERWAVE - 7770 (2 TOTAL, 2 PER GAMMA)







KING OF PRUSSIA, PA 19406



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						FINA	L ANTE	NNA Al	ND COA	XIAI	CABLE	SCHEDUL	E			
POS.	ТЕСН	STATUS	AZIMUTH	ANTENNA TÝPE	ANTENNA RAD CENTER	MECHANICAL DOWNTILT	ELECTRICAL DOWNTILT	MAIN COAX SIZE	MAIN COAX LENGTH	COAX QTY	TMA QTY AND MODEL	RAYCAP	DC (WR-VG86ST-BRD) FIBER CABLES (FB-L98B-034-XXXXXX)	RRHS	DIPLEXER	RET CABLE
ALPH4	SECTOR															
A1	UMTS	EXISTING	0,	POWERWAVE 7770	89'-0"	0,	6*	7/8"	100'-0"	4	(2) LGP 21401			-	-	-
A2	LTE	EXISTING	0,	CCI HPA-65R-BU6AA	89'-0"	0,	2.	-	-	-	-	DC6-48-60-18-8F	(1) FIBER	(1) 4415 B25	-	-
А3	LTE	EXISTING	o.	CCI HPA-65R-BU6AA	89'-0"	0*	3*/2*	-	-	-	-	1000-48-60-18-86	(2) DC LINES	(1) 4478 B14 (GROUND)	-	-
A4	LTE	EXISTING	0,	KATHREIN 80010965	89'-0"	0*	3'/3'/3'/3'	=	-	-	-			(1) 4449 B5/B12 (1) 8843 B2/B66A	-	-
BETA	SECTOR															
В1	UMTS	EXISTING	120*	POWERWAVE 7770	89'-0"	0*	4*	7/8"	100'-0"	4	(2) LGP 21401			-	-	-
B2	LTE	EXISTING	120°	CCI HPA-65R-BU6AA	89'-0"	0.	6.	-	-	-	-	DC6-48-60-18-8F	(1) FIBER	(1) 4415 B25	-	-
В3	LTE	EXISTING	120*	CCI HPA-65R-BU6AA	89'-0"	0,	6./6.	-	-	-	-	DC6-46-60-16-6F	(2) DC LINES	(1) 4478 B14 (GROUND)	-	-
В4	LTE	EXISTING	120*	KATHREIN 80010965	89'-0"	0*	6, \6, \6, \6.	-	-	-	-			(1) 4449 B5/B12 (1) 8843 B2/B66A	-	-
GAMM	SECTOR	•														
C1	UMTS	EXISTING	240°	POWERWAVE 7770	89'-0"	0.	2*	7/8"	100'-0"	4	(2) LGP 21401			=	-	-
C2	LTE	EXISTING	240°	CCI HPA-65R-BU8AA	89'-0"	0.	2.	-		-	-	DC6-48-60-18-8F (1) FIBER (2) DC LINES		(1) 4415 B25	-	-
С3	LTE	EXISTING	240°	CCI HPA-65R-BU8AA	89'-0"	0*	2*/2*	=	-	-	-		(1) 4478 B14 (GROUND)	-	-	
C4	LTE	EXISTING	240°	KATHREIN 80010965	89'-0"	0.	1'/2'/3'/2'	-		-	-	1		(1) 4449 B5/B12 (1) 8843 B2/B66A	-	-







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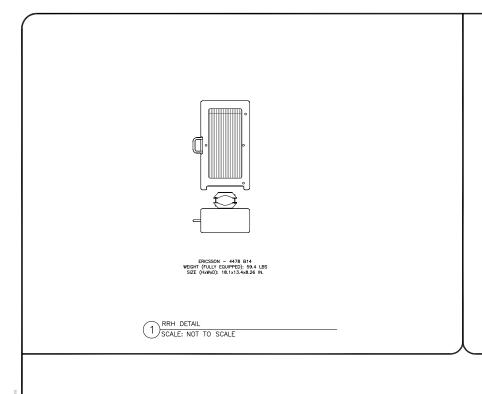
> EXISTING 115'-6" MONOPOLE

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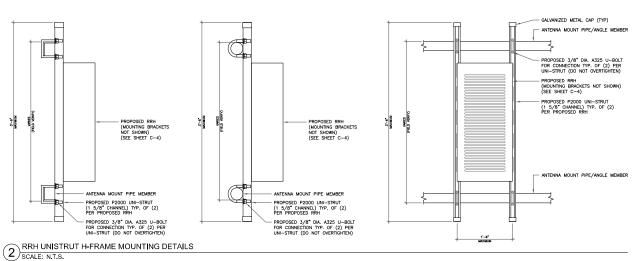
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TO ALTER THIS DOCUMENT.

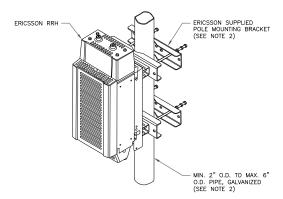
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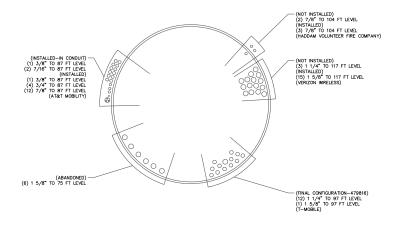


- FOR POLE DIAMETERS FROM 6" TO 15", ERICSSON CAN SUPPLY A PAIR OF POLE MOUNTING METAL BANDS WITH BOLTING WELDMENT.
- 3. NO PAINTING OF THE RRH OR SOLAR SHIELD IS ALLOWED



RRH MOUNTING DETAIL
SCALE: NOT TO SCALE

ANTENNA MOUNTING DETAIL
SCALE: NOT TO SCALE



BASE LEVEL DRAWING SCALE: NOT TO SCALE







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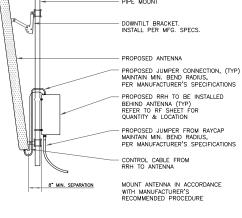
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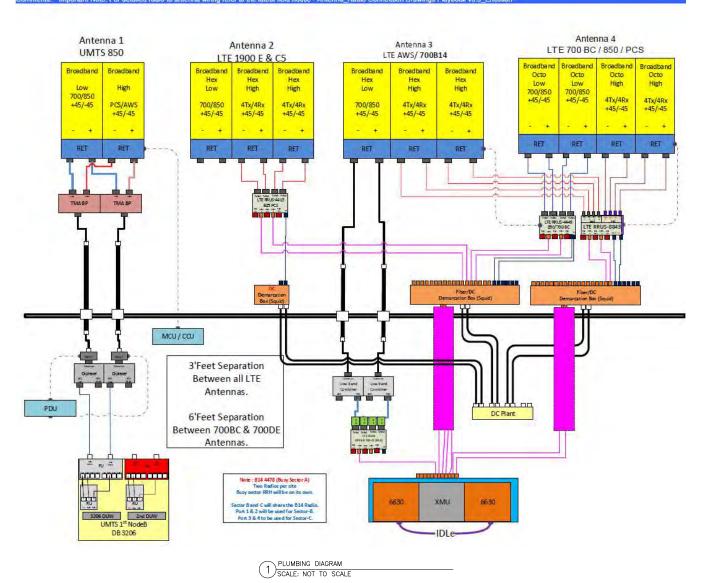
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Afoil Site Name - CT5386 Location Name - CENTRAL Market - CONNECTICUT Market Cluster - NEW ENGLAND

comments: "Important Note: For detailed radio to antenna wiring refer to the latest field notice - Antenna_Radio Connection Drawings Playbook v6.0_Ericsson"







KING OF PRUSSIA, PA 19406



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- NOTE 1: PRODUCTS ARE ONLY TO BE USED WHEN ADEQUATE PHYSICAL SPACE EXISTS FOR PROPER INSTALLATION.
- NOTE 2: HEAT SHRINK MAY ONLY BE USED AT GROUND LEVEL OR ROOFTOP SITES WHEN APPLIED WITH A HEAT GUN. USE ON TOWERS OR INSTALLING WITH AN OPEN FLAME DEVICE, SUCH AS A TORCH, IS PROHIBITED DUE TO POTENTIAL DAMAGE TO CONNECTORS AND CABLES. HEAT SHRINK IS NOT ALLOWED ON CONNECTIONS TO TOWER TOP EQUIPMENT EVEN IF THE HEAT SHRINK IS APPLIED ON THE GROUND PRIOR TO INSTALLING THE EQUIPMENT ON THE TOWER TOP.
- NOTE 3: HEAT SHRINK IS NOT TO BE USED ON RET/AISG CONNECTORS FOUND ON RF DEVICES (RRH/RRU, ANTENNAS, ETC.), DUE TO POSSIBLE DAMAGE BEING CAUSED TO THE DEVICE. IT MAY BE USED ON CONNECTORS ATTACHED TO RET SURGE PROTECTORS.
- NOTE 4: WHEN GAMMA ELECTRONICS COLD SHRINK IS USED ON FULLY THREADED DIN CONNECTORS THE THREADS MUST HAVE EITHER ROSENBERGER THREAD ADAPTER OR BUTYL APPLIED PRIOR TO THE COLD SHRINK BEING INSTALLED. REFER TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS INCLUDED WITH THE PRODUCT FOR DETAILS.

TAB	X COLOR C	ODE				
	ALPHA		GREEN			
	A-SPLIT	GREEN	ORANGE	BLANK		
	BETA		BLUE			
SECTOR	B-SPLIT	BROWN	BROWN	BLANK		
C.C.	GAMMA		WHITE			
2,	C-SPLIT	WHITE	VIOLET	BLANK		
	D E		ORANGE BROWN			
	t.		VIOLET			
	7 70 1100 1100	/ 51007 5				
D	C TRUCNK / DC JUMPEF	R / FIRST FIBER JUMPER				
	700 (B/C)					
	850		YELLOW			
	850 - 2ND BLOCK	YELLOW	YELLOW	BLANK		
	1900 (PCS)		RED TED			
	1900 (PCS) - 2ND BLOCK	RED	RED	BLANK		
Okta,	2100 (AWS)	ORANGE				
⁷ ⊗ı.	2100 (AWS) - 2ND BLOCK	ORANGE	ORANGE	BLANK		
recollect days	2300 (WCS)		BROWN			
COLUR	2300 (WCS) - 2ND BLOCK	BROWN	BROWN	BLANK		
ERE.	2300 (WCS) - SXM REPEATER	BROWN	BROWN	BROWN		
	700 (D/E)		SLATE			
	700 FIRSTNET	VIOLET	BLUE	BLANK		
	700 (B/C) / 700 FIRSTNET (DUAL RRH)		VIOLET VIOLET	BLUE BLUE		
	1900 (PCS) / 2100 (AWS) (DUAL RRH)	RED	ORANGE	BLANK		
	8500 / 700 D/E (DUAL RRH)	YELLOW	SLATE	BLANK		

WEATHERPROOFING PRODUCT APPLICATION TABLE									
		APPLICATION							
PRODUCT	HARDLINE TO JUMPER CONNECTION	7-16 DIN RF CONNECTOR	4.3-10 RF CONNECTOR	RRH/RRU DC CONNECTOR	RRH/RRU FIBER CONNECTOR	RET/AISG			
TAPE & BUTYL	YES	YES (1)	YES (1)	NO	NO	NO			
SELF-FUSING TAPE	YES	YES (1)	YES (1)	YES	NO	YES			
JUMPER BOOT	NO	YES	YES	NO	NO	NO			

TORQUE VALUES FOR CONNECTORS						
CONNECTOR TYPE	TORQUE Ft-lbs	TORQUE In-lbs				
7-16 DIN	7-16 DIN 19-22					
4.3-10	3.67	44				
N	1.25	15				
SMA	0.42	5				
TNC	0.42	5				
RET/AISG	HAND TIGHTEN	HAND TIGHTEN				

MINIMUM BENDING RADIUS FOR GROUNDING CONDUCTORS					
GROUNDING CONDUCTOR SIZE	MINIMUM BENDING RADIUS (INCHES)				
6 AWG	2				
4 AWG	3				
2 AWG	3				
1/0 AWG	4				
4/0 AWG	4				
750 KCML	7				







AT&T SITE NUMBER: CT5386

> BU #: 806367 HRT 046 943209

65 MAPLE AVENUE WEST HIGGANUM, CT 06441

> EXISTING 115'-6" MONOPOLE

REV	DATE	DRWN	DESCRIPTION	DES./Q
0	6/17/20	STH	CONSTRUCTION	FWP
1	7/11/20	GEH	CONSTRUCTION	GEH
2	9/29/20	MLC	CONSTRUCTION	MIJ



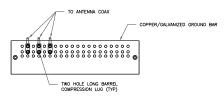
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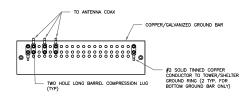
REVISION 2

COLOR CODE STANDARD SCALE: NOT TO SCALE



NOTES:

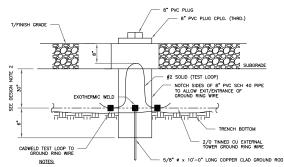
- 1. DOUBLING UP "OR STACKING" OF CONNECTIONS IS NOT PERMITTED.
- 2. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
- 3. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER, MOUNT DIRECTLY TO TOWER STEEL.
- ANTENNA GROUND BAR DETAIL (1) SCALE: NOT TO SCALE



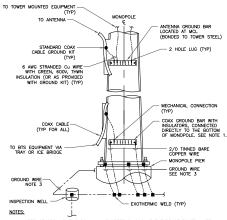
NOTES:

- 1. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
- 2. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL (TOWER ONLY).
- 3. GROUND BAR SHALL BE ISOLATED FROM BUILDING OR SHELTER.

TOWER/SHELTER GROUND BAR DETAIL SCALE: NOT TO SCALE

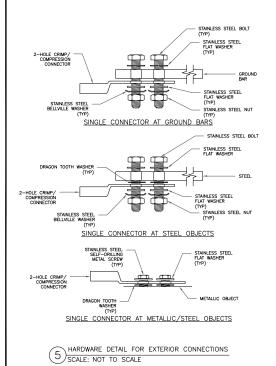


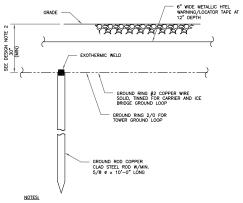
- GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE VERTICAL
- GROUND WIRE SHALL BE MIN. 30" BELOW GRADE OR 6" BELOW FROST LINE. (WHICH EVER IS GREATER) AS PER N.E.C. ARTICLE 250-50(D)
- INSPECTION WELL DETAIL 3 SCALE: NOT TO SCALE



- NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATIONS AND CONNECTION ORIENTATION. COAXIAL CABLES EXCEEDING 200 FEET ON THE TOWER SHALL HAVE GROUND KITS AT THE MIDPOINT. PROVIDE AS REQUIRED.
- ONLY MECHANICAL CONNECTIONS ARE ALLOWED TO BE MADE TO CROWN CASTLE USA INC. TOWERS. ALL MECHANICAL CONNECTIONS SHALL BE TREATED WITH AN ANTI-OXIDANT COATING.
- ALL TOWER GROUNDING SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF THE RECOGNIZED EDITION OF ANSI/TIA 222 AND NFPA 780.

TYPICAL ANTENNA CABLE GROUNDING (4) SCALE: NOT TO SCALE





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

 2. GROUND WIRE SHALL BE MIN. 30" BELOW GRADE OR 6" BELOW FROST LINE.

 (WHICH EVER IS GREATER) AS PER N.E.C. ARTICLE 250-50(D)

GROUND ROD DETAIL (6) SCALE: NOT TO SCALE







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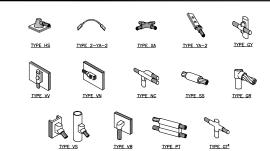
REV	DATE	DRWN	DESCRIPTION	DES./Q.
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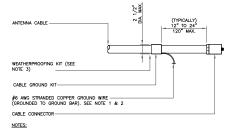
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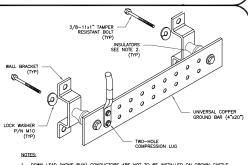


- ERICO EXCITERMIC "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH CONSTRUCTION MANAGER FOR SPECIFIC MOLDS TO BE USED FOR THIS PROJECT.
 MOLD TYPE ONLY TO BE USED BELOW GRADE WHEN CONNECTING GROUND RING TO GROUND ROD.

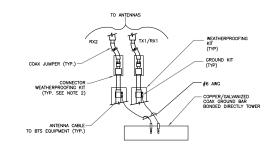
CADWELD GROUNDING CONNECTIONS (1) SCALE: NOT TO SCALE



- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
- GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
- WEATHER PROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.
- CABLE GROUND KIT CONNECTION
 SCALE: NOT TO SCALE

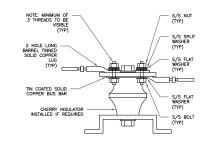


- DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY QAS-STD-10091. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION, CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.
- 2. OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL USE INSULATORS WHEN ATTACHING TO BUILDING OR SHELTERS.
- GROUND BAR DETAIL (6) SCALE: NOT TO SCALE



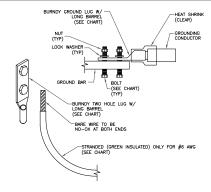
NOTES:

- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.
- 2. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT. COLD SHRINK SHALL NOT BE
- GROUND CABLE CONNECTION (4) SCALE: NOT TO SCALE



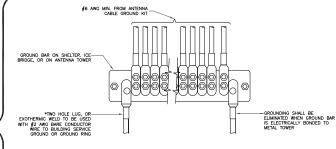
7 LUG DETAIL SCALE: NOT TO SCALE

WIRE SIZE	BURNDY LUG	URNDY 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	

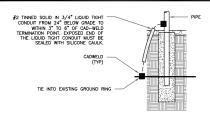


NOTES:

- ALL GROUNDING LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
 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.
- MECHANICAL LUG CONNECTION 2 MECHANICAL LUG CONI



5 GROUNDWIRE INSTALLATION SCALE: NOT TO SCALE



TRANSITIONING GROUND DETAIL 8 SCALE: NOT TO SCALE







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