



Crown Castle
3 Corporate Park Drive, Suite 101
Clifton Park, NY 12065

January 18, 2019

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

RE: **TS-T-MOBILE-042-180611- T-Mobile request for an order to approve tower sharing at an existing telecommunications facility located at 94 East High Street, East Hampton, Connecticut.**

Dear Ms. Bachman:

On July 20, 2018, the Siting Council ("Council") approved the above-referenced tower share application. In an effort to mitigate the size of the compound expansion needed to accommodate T-Mobile's equipment, a redesign is proposed to locate T-Mobiles equipment on an existing pad inside the compound. An addition to the pad will be needed to accommodate the proposed T-Mobile equipment, this will require a smaller expansion to the compound that was originally proposed. T-Mobile respectfully submits that its new equipment location shown on the attached plans, will continue to satisfy the criteria for a tower share approval and asks for Council approval of the new equipment location.

Attached are three (3) sets of revised project plans for your files. We have also included (3) copies of the originally approved equipment layout for reference. If you have any questions or need any additional information regarding these proposed modifications please do not hesitate to contact me.

Sincerely,

William Stone

William Stone

Real Estate Specialist
Crown Castle
3 Corporate Park Drive, Suite 101
Clifton Park, NY 12065

The Foundation for a Wireless World.

CrownCastle.com

Melanie A. Bachman

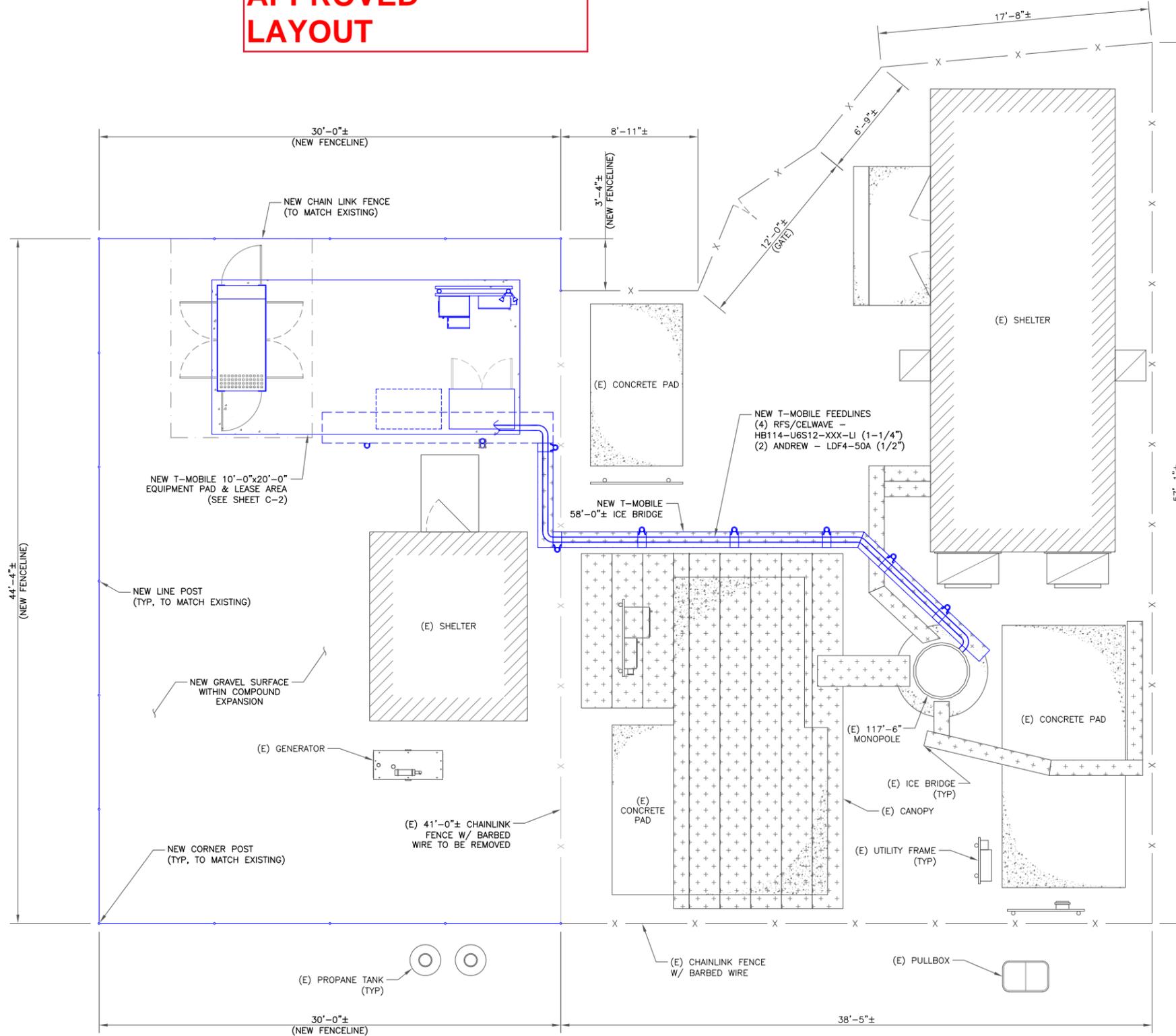
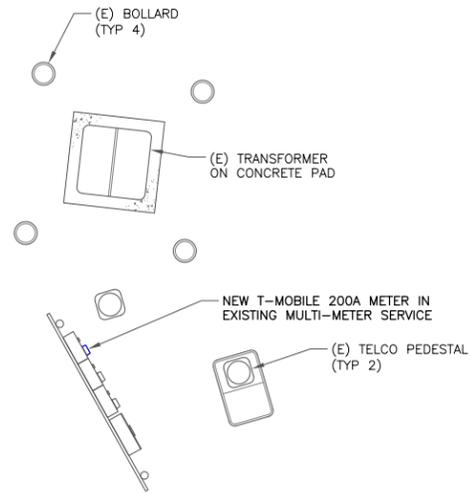
Page 2

518-373-3543 / william.stone@crowncastle.com

INSTALLER NOTE:

PROPOSED GRADE INSIDE THE COMPOUND EXPANSION TO BE MAXIMUM 5%. CONTRACTOR TO GRADE SITE AS NEEDED PRIOR TO INSTALLING GRAVEL BASE.

PREVIOUSLY APPROVED LAYOUT



T-Mobile
 12920 SE 38TH STREET
 BELLEVUE, WA 98006

CROWN CASTLE
 3 CORPORATE PARK DRIVE, SUITE 101
 CLIFTON PARK, NY 12065

T-MOBILE SITE NUMBER:
CTHA601A

BU #: **876352**
RICHARD WALL

94 EAST HIGH ST.
 EAST HAMPTON, CT 06424

EXISTING 117'-6" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	03/20/18	CWJ	PRELIMINARY	ZTK
B	03/28/18	CWJ	PRELIMINARY	ZTK
C	05/10/18	CWJ	PRELIMINARY	ZTK
0	05/29/18	CWJ	CONSTRUCTION	JPL

DocuSigned by:
Justin Duffett
 JUSTIN PETER LINETTE
 No. 31965
 LICENSED PROFESSIONAL ENGINEER
 5/30/2018 3:02:08 PM EDT

CROWN CASTLE USA INC. USA Inc.
 Certificate of Registration #PEC.0001101

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

1 FINAL SITE PLAN
 SCALE: 1/4"=1'-0" (FULL SIZE)
 1/8"=1'-0" (11x17)



T-Mobile

T-MOBILE SITE NUMBER: CTHA601A
T-MOBILE SITE NAME: LCTHA601A
SITE TYPE: MONOPOLE
TOWER HEIGHT: 117'-6"

BUSINESS UNIT #: 876352
SITE ADDRESS: 94 EAST HIGH ST.
 EAST HAMPTON, CT 06424
COUNTY: MIDDLESEX
JURISDICTION: TOWN OF EAST HAMPTON

T-MOBILE 2018 NSD

T-Mobile
 12920 SE 38TH STREET
 BELLEVUE, WA 98006

CROWN CASTLE
 3 CORPORATE PARK DRIVE, SUITE 101
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0	05/29/18	CWJ	CONSTRUCTION	JPL
1	07/03/18	CWJ	GROUND LAYOUT	JPL
2	07/30/18	CWJ	WORK LIGHT	JPL
3	09/06/18	CWJ	GROUND LAYOUT	JPL
4	01/08/19	CWJ	GROUND LAYOUT	JPL

SITE INFORMATION

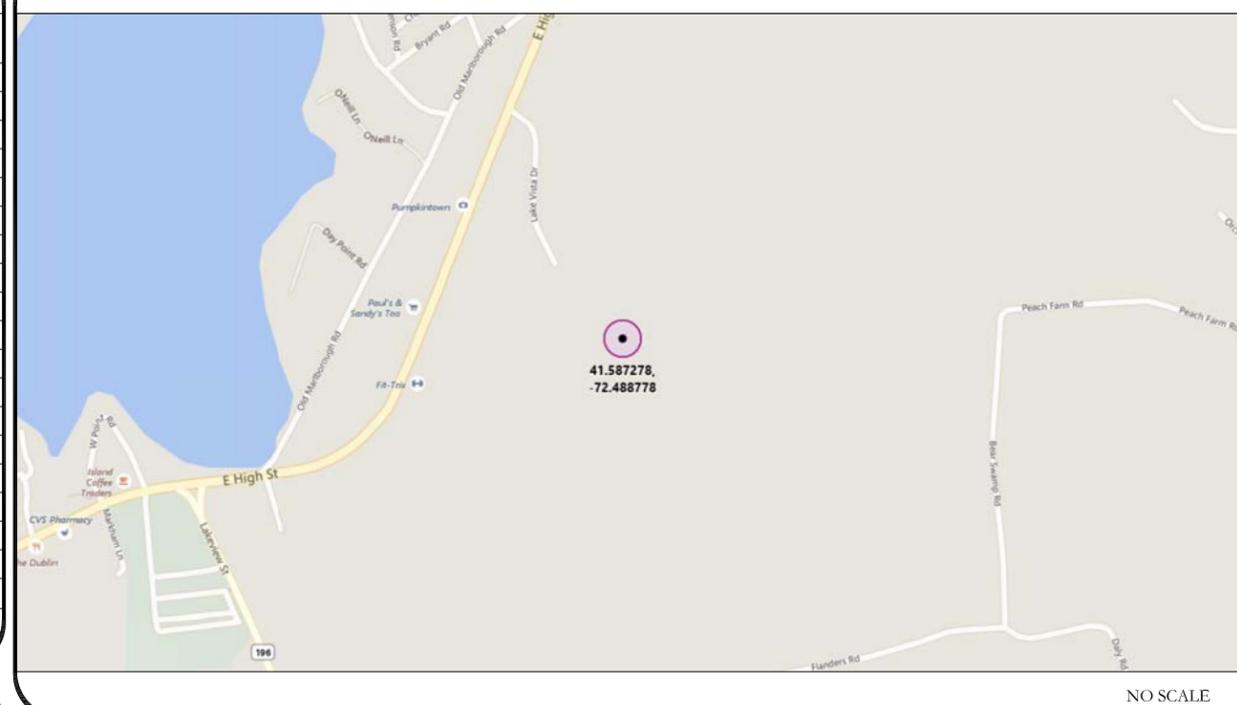
CROWN CASTLE USA INC. RICHARD WALL
 SITE NAME:
 SITE ADDRESS: 94 EAST HIGH ST.
 EAST HAMPTON, CT 06424
 COUNTY: MIDDLESEX
 MAP/PARCEL #: 26/85/16
 AREA OF CONSTRUCTION: EXISTING
 LATITUDE: 41° 35' 14.20"
 LONGITUDE: -72° 29' 19.60"
 LAT/LONG TYPE: NAD83
 GROUND ELEVATION: 668 FT.
 CURRENT ZONING: R-3S
 JURISDICTION: TOWN OF EAST HAMPTON
 OCCUPANCY CLASSIFICATION: U
 TYPE OF CONSTRUCTION: IIB
 A.D.A. COMPLIANCE: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
 PROPERTY OWNER: PAULS & SANDYS TOO INC
 93 EAST HIGH STREET
 EAST HAMPTON, CT 06424
 TOWER OWNER: GLOBAL SIGNAL ACQUISITIONS II LLC
 2000 CORPORATE DRIVE
 CANONSBURG, PA 15317
 CARRIER/APPLICANT: T-MOBILE
 12920 SE 38TH STREET
 BELLEVUE, WA 98006
 APPLICATION ID: 419731
 ELECTRIC PROVIDER: CONNECTICUT LIGHT & POWER CO.
 (800) 286-2000
 TELCO PROVIDER: FRONTIER
 (877) 600-1511

DRAWING INDEX

SHEET #	SHEET DESCRIPTION
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T-2	GENERAL NOTES
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C-2	EQUIPMENT PLAN
C-3	EQUIPMENT ELEVATIONS & DETAILS
C-4	TOWER ELEVATION & ANTENNA PLAN
C-5	EQUIPMENT DETAILS
C-6	EQUIPMENT DETAILS
C-7	EQUIPMENT DETAILS
E-1	ELECTRICAL SITE PLAN
E-2	UTILITY FRAME AND WIRING DETAILS
E-3	POWER DIAGRAM & ONE-LINE DIAGRAM
G-1	EQUIPMENT & ANTENNA GROUNDING PLANS
G-2	GROUNDING DETAILS
G-3	GROUNDING DETAILS

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.

LOCATION MAP



APPROVALS

APPROVAL	SIGNATURE	DATE
PROPERTY OWNER OR REP.	_____	_____
LAND USE PLANNER	_____	_____
T-MOBILE	_____	_____
OPERATIONS	_____	_____
RF	_____	_____
NETWORK	_____	_____
BACKHAUL	_____	_____
CONSTRUCTION MANAGER	_____	_____

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

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:

CODE TYPE	CODE
BUILDING	2016 CT STATE BUILDING CODE/2012 IBC W/ CT AMENDMENTS
MECHANICAL	2016 CT STATE BUILDING CODE/2012 IMC W/ CT AMENDMENTS
ELECTRICAL	2016 CT STATE BUILDING CODE/2014 NEC W/ CT AMENDMENTS

REFERENCE DOCUMENTS:

STRUCTURAL ANALYSIS: PAUL J. FORD & CO.
 DATED MAY 30, 2018

TOWER MODIFICATION: PAUL J. FORD & CO.
 DESIGN: DATED MARCH 14, 2018



CALL CONNECTICUT ONE CALL
 (800) 922-4455
 CALL 3 WORKING DAYS
 BEFORE YOU DIG!



PROJECT DESCRIPTION

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

TOWER SCOPE OF WORK:

- INSTALL (12) PANEL ANTENNAS ON NEW ANTENNA MOUNT
- INSATLL (1) MW DISH
- INSTALL (1) GPS
- INSTALL (12) RRU's
- INSTALL (8) DIPLEXERS
- INSTALL (4) HYBRID CABLE LINES
- INSTALL (2) COAX CABLE LINES

INSTALLER NOTE:

NO PROPOSED LOADING TO BE ADDED UNTIL TOWER MODIFICATIONS ARE INSTALLED PER TOWER MCATION DESIGNED BY PAUL J. FORD & CO. DATED MARCH 14, 2018.

GROUND SCOPE OF WORK:

- REMOVE EXISTING 15'-8" ± CHAINLINK FENCE & 12'-0" CHAINLINK GATE W/ BARBED WIRE
- REMOVE EXISTING 6'-0"x10'-6" CONCRETE PAD & UTILITY FRAME
- INSTALLATION OF NEW 10'-0"x20'-0" CONCRETE EQUIPMENT PAD & LEASE AREA WITHIN THE NEW 14'-6"x20'-10" FENCED COMPOUND EXPANSION W/ NEW 12'-0" GATE
- INSTALLATION OF NEW 25KW DIESEL GENERATOR (OPTIONAL STANDBY GENERATOR)
- INSTALLATION OF NEW ELECTRICAL SERVICE TO T-MOBILE EQUIPMENT
- INSTALLATION OF NEW FIBER SERVICE TO T-MOBILE EQUIPMENT

DESIGN PACKAGE BASED ON THE APPLICATION ID: 419731 REVISION: 2
 DESIGN PACKAGE BASED ON THE RFDS REVISION: 01 DATE: 11/28/17

PROJECT TEAM

A&E FIRM: CROWN CASTLE USA INC.
 2000 CORPORATE DRIVE
 CANONSBURG, PA 15317
 CROWN.AE.APPROVAL@CROWNCastle.COM
 CROWN CASTLE USA INC. CONTACTS:
 3 CORPORATE PARK DRIVE, SUITE 101
 CLIFTON PARK, NY 12065
 CHRISTINE TROTTA - PROJECT MANAGER
 (518) 373-3511
 JASON D'AMICO - CONSTRUCTION MANAGER
 (860) 209-0104
 AMANDA CORNWALL - A&E PROJECT MANAGER
 AMANDA.CORNWALL@CROWNCastle.COM
 (339) 205-7017

DocuSigned by:
 Justin J. Linette
 JUSTIN J. LINETTE
 PETER LINETTE
 No. 31965
 LICENSED PROFESSIONAL ENGINEER
 1/8/2019 1:17:56 PM EST
 CROWN CASTLE USA INC. USA Inc.
 Certificate of Registration #PEC.0001101

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SHEET NUMBER: **T-1** REVISION: **4**

SITE WORK GENERAL NOTES:

1. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
2. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION.
3. ALL SITE WORK TO COMPLY WITH QAS--STD--10068 "INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON CROWN CASTLE USA INC. TOWER SITE" AND LATEST VERSION OF TIA 1019 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS."
4. ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS.
5. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
6. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, OWNER AND/OR LOCAL UTILITIES.
7. THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE.
8. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
9. 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.
10. 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.
13. 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, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN AND SHALL MEET ANSI/ASSE A10.48 (LATEST EDITION); FEDERAL, STATE, AND LOCAL REGULATIONS; AND ANY APPLICABLE INDUSTRY CONSENSUS STANDARDS RELATED TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED. ALL RIGGING PLANS SHALL ADHERE TO ANSI/ASSE A10.48 (LATEST EDITION) AND CROWN CASTLE USA INC. STANDARD CED--STD--10253 INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH THE ANSI/TIA--322 (LATEST EDITION).

STRUCTURAL STEEL NOTES:

1. ALL STEEL WORK SHALL BE PAINTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND IN ACCORDANCE WITH ASTM A36 UNLESS OTHERWISE NOTED.
2. BOLTED CONNECTIONS SHALL BE ASTM A325 BEARING TYPE (3/4") CONNECTIONS AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
3. NON--STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" ASTM A307 BOLTS UNLESS NOTED OTHERWISE.
4. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR CONTRACTOR APPROVAL WHEN DRILLING HOLES IN CONCRETE. SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS.

CONCRETE AND REINFORCING STEEL NOTES:

1. 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.
2. 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.
3. 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 "B" AND ALL HOOKS SHALL BE STANDARD, UNO.
4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
 CONCRETE CAST AGAINST EARTH.....3 IN.
 CONCRETE EXPOSED TO EARTH OR WEATHER:
 #6 AND LARGER.....2 IN.
 #5 AND SMALLER & WWF.....1 1/2 IN.
 CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:
 SLAB AND WALLS.....3/4 IN.
 BEAMS AND COLUMNS.....1 1/2 IN.
5. 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:

1. 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.
2. 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.
3. 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.
5. 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:
 CONTRACTOR-- GENERAL CONTRACTOR (CONSTRUCTION)
 SUBCONTRACTOR-- T--MOBILE
 CARRIER-- CROWN CASTLE USA INC.
 TOWER OWNER-- CROWN CASTLE USA INC.
 OEM-- ORIGINAL EQUIPMENT MANUFACTURER
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING 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 CROWN CASTLE USA INC.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
4. DRAWINGS PROVIDED HERE ARE NOT TO SCALE AND ARE INTENDED TO SHOW OUTLINE ONLY.
5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
6. "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.
7. 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 PRODUCE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR AND CROWN CASTLE USA INC. PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWINGS.
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 TRANSCIEVER STATION
- (E) EXISTING
- MIN. MINIMUM
- REF. REFERENCE
- RF RADIO FREQUENCY
- T.B.D. TO BE DETERMINED
- T.B.R. TO BE RESOLVED
- TYP TYPICAL
- REQ REQUIRED
- EGR EQUIPMENT GROUND RING
- AWG AMERICAN WIRE GAUGE
- MGB MASTER GROUND BAR
- EG EQUIPMENT GROUND
- BCW BARE COPPER WIRE
- SIAD SMART INTEGRATED ACCESS DEVICE
- GEN GENERATOR
- IGR INTERIOR GROUND RING (HALO)
- RBS RADIO BASE STATION

SYMBOLS:

- SOLID GROUND BUS BAR
- SOLID NEUTRAL BUS BAR
- SUPPLEMENTAL GROUND CONDUCTOR
- 2--POLE THERMAL--MAGNETIC CIRCUIT BREAKER
- SINGLE--POLE THERMAL--MAGNETIC CIRCUIT BREAKER
- CHEMICAL GROUND ROD
- TEST WELL
- DISCONNECT SWITCH
- METER
- EXOTHERMIC WELD (CADWELD) (UNLESS OTHERWISE NOTED)
- MECHANICAL CONNECTION
- GROUNDING WIRE

ELECTRICAL INSTALLATION NOTES:

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.
2. CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED.
3. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC. HILTI EPOXY ANCHORS ARE REQUIRED BY CROWN CASTLE USA INC.
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 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.
7. 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).
8. 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 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.
11. 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.
12. 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.
13. 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).
14. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
15. 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.
18. LIQUID--TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID--TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
19. 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 NEMA 1 (OR BETTER).
22. 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.
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 3R (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 "T--MOBILE".
29. ALL CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.

GREENFIELD GROUNDING NOTES:

1. 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.
2. 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.
3. 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.
4. METAL CONDUIT AND TRAY SHALL BE GROUNDEND 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.
5. 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.
7. 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.
8. 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.
10. USE OF 90' BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45' BENDS CAN BE ADEQUATELY SUPPORTED.
11. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
12. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
13. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
14. 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.
16. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
17. MISCELLANEOUS ELECTRICAL AND NON--ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
18. BOND ALL METALLIC OBJECTS WITHIN 6 FT. OF MAIN GROUND WIRES WITH 1--#2 AWG TIN--PLATED COPPER GROUND CONDUCTOR.
19. 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.
20. 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).

NEC INSULATOR COLOR CODE		
DESCRIPTION	PHASE/CODE LETTER	WIRE COLOR
240/120 1Ø	LEG 1	BLACK
	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
240V OR 208V, 3Ø	PHASE A	BLACK
	PHASE B	RED(ORG. IF HI LEG)
	PHASE C	BLUE
480V, 3Ø	PHASE A	BROWN
	PHASE B	ORANGE
	PHASE C	YELLOW

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



12920 SE 38TH STREET
BELLEVUE, WA 98006



3 CORPORATE PARK DRIVE, SUITE 101
CLIFTON PARK, NY 12065

T-MOBILE SITE NUMBER:
CTHA601A

BU #: 876352
RICHARD WALL

94 EAST HIGH ST.
EAST HAMPTON, CT 06424

EXISTING 117'-6" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	03/20/18	CWJ	PRELIMINARY	ZTK
B	03/28/18	CWJ	PRELIMINARY	ZTK
C	05/10/18	CWJ	PRELIMINARY	ZTK
0	05/29/18	CWJ	CONSTRUCTION	JPL
1	07/03/18	CWJ	GROUND LAYOUT	JPL
2	07/30/18	CWJ	WORK LIGHT	JPL
3	09/06/18	CWJ	GROUND LAYOUT	JPL
4	01/08/19	CWJ	GROUND LAYOUT	JPL



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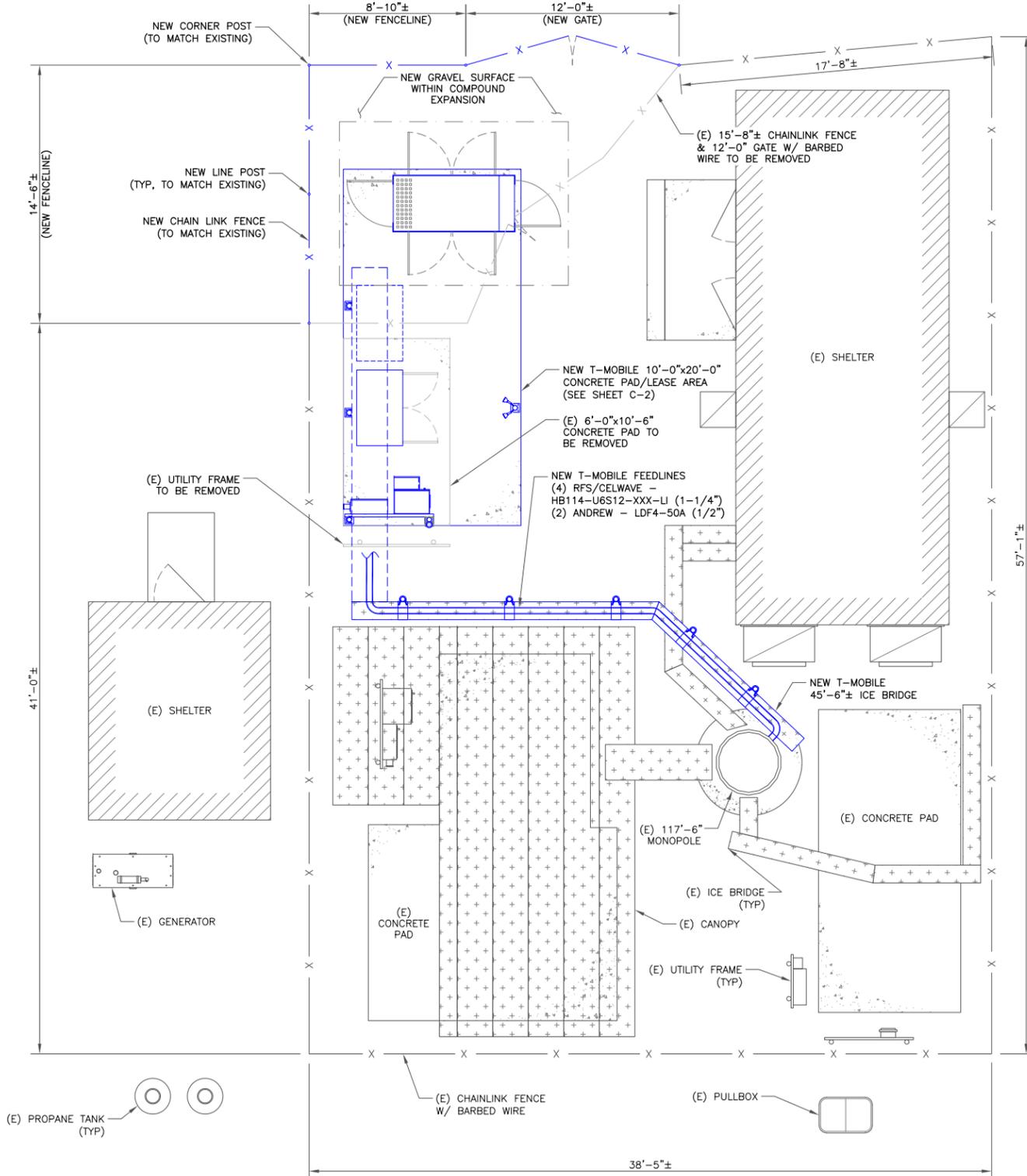
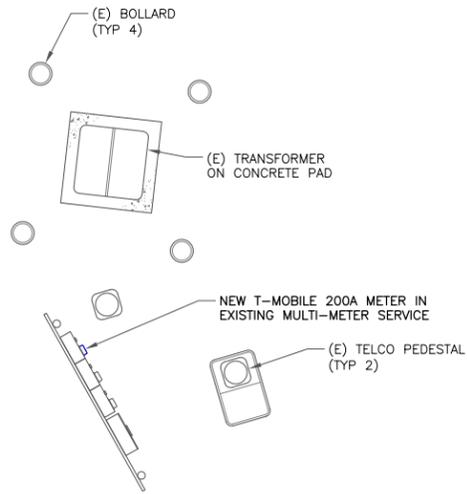
SHEET NUMBER:

T-2

REVISION:

4

INSTALLER NOTE:
 PROPOSED GRADE INSIDE THE COMPOUND EXPANSION TO BE MAXIMUM 5%. CONTRACTOR TO GRADE SITE AS NEEDED PRIOR TO INSTALLING GRAVEL BASE.



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 EAST HAMPTON, CT 06424
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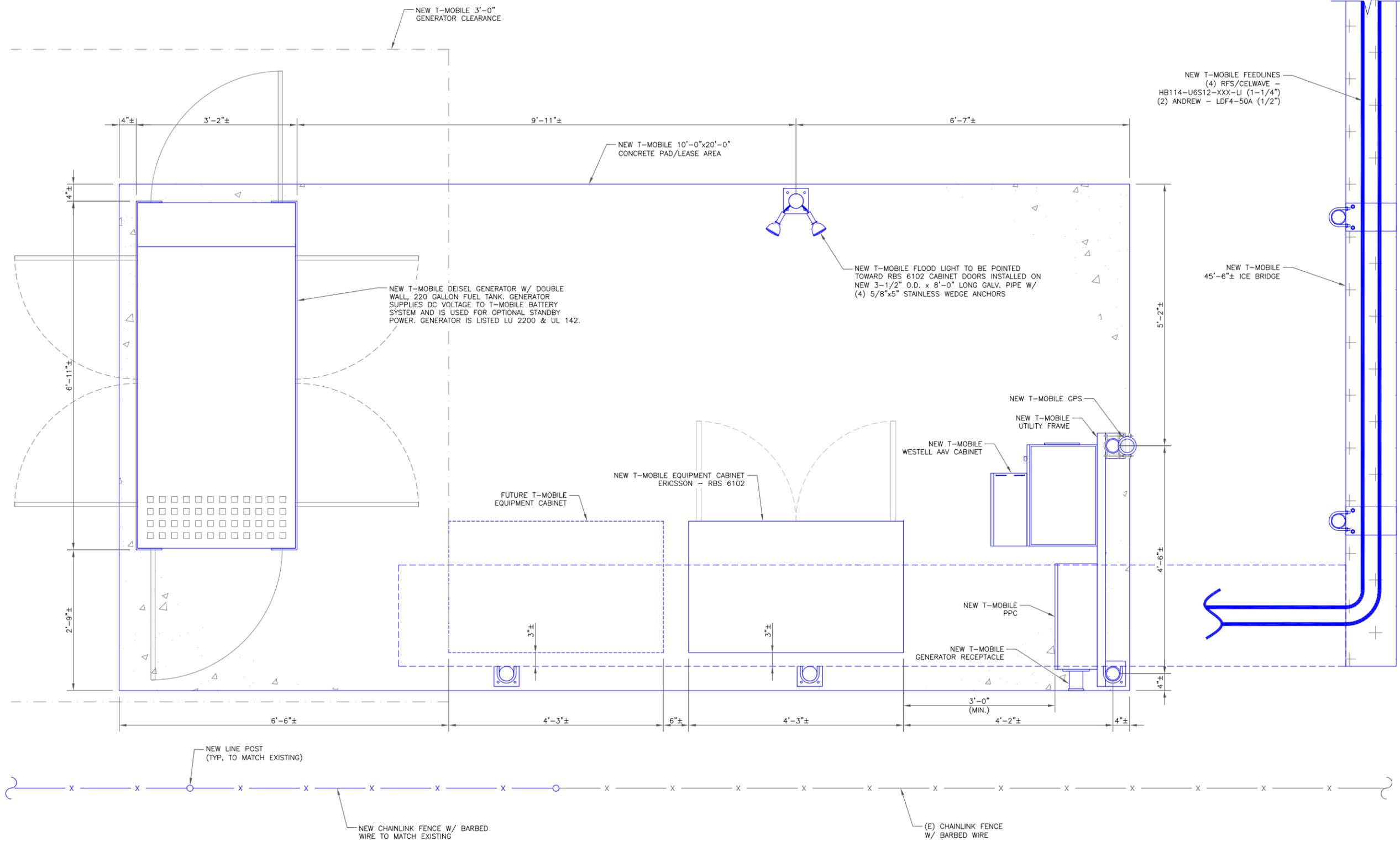
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Justin Linette
 JUSTIN LINETTE
 840852547C41D
 No. 31965
 LICENSED PROFESSIONAL ENGINEER
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BU #: 876352
RICHARD WALL

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EXISTING 117'-6" MONOPOLE

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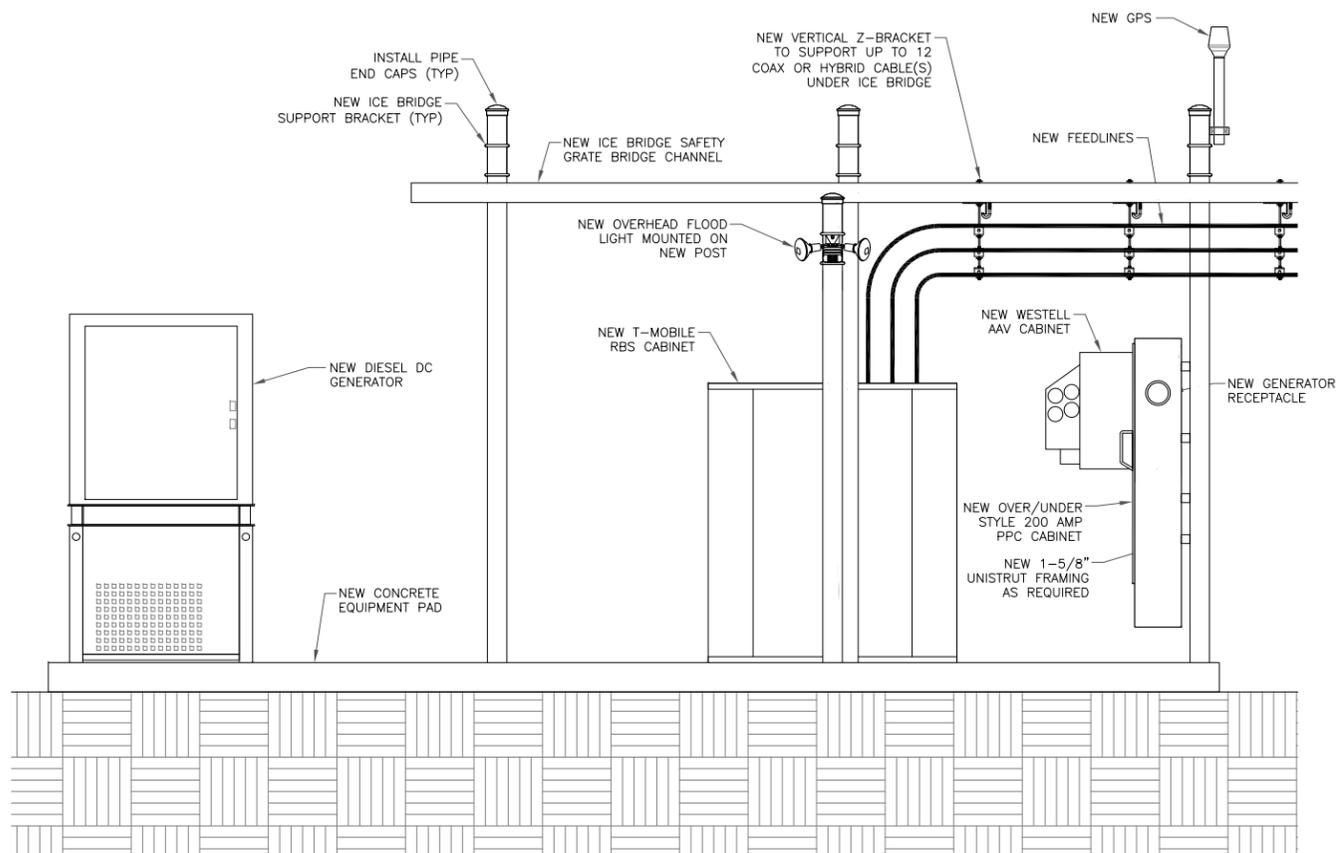
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 1/8/2019 1:11:17 PM EST

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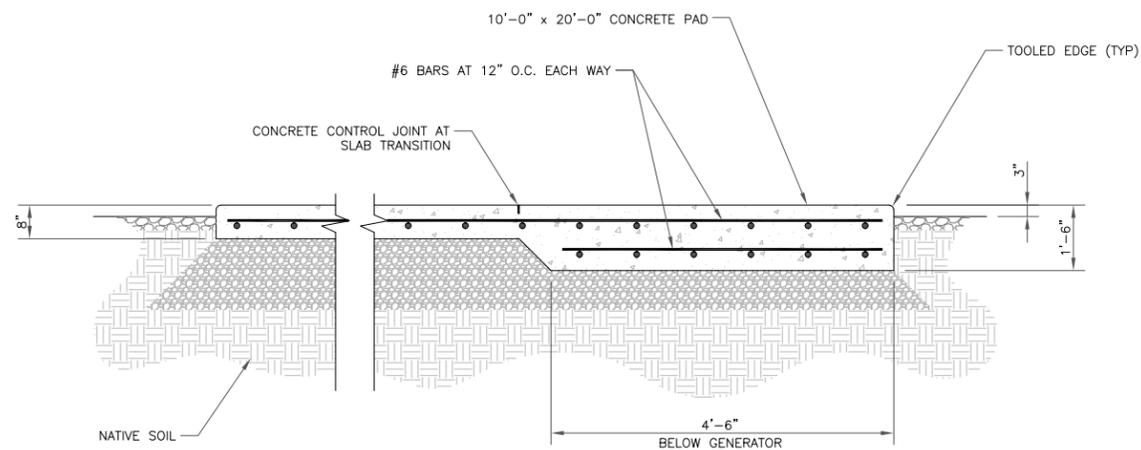
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1 EQUIPMENT PLAN
 SCALE: 1"=1'-0" (FULL SIZE)
 1/2"=1'-0" (11x17)



1 EQUIPMENT ELEVATION – GROUND LEVEL
 SCALE: NOT TO SCALE



NOTES:

- 1) MINIMUM CONCRETE STRENGTH (f'c) TO BE 4,500 psi UNLESS NOTED OTHERWISE. CONCRETE MIX SHALL BE DESIGNED BY A CERTIFIED LABORATORY. CONCRETE EXPOSED TO FREEZE-THAW CYCLES TO CONTAIN AIR ENTRAINING ADMIXTURES. AMOUNT OF AIR ENTRAINMENT TO BE BASED ON SIZE OF AGGREGATE AND F3 CLASS EXPOSURE (VERY SEVERE). CEMENT USED TO BE TYPE II PORTLAND CEMENT WITH A WATER-TO-CEMENT RATIO (W/C) NOT TO EXCEED 0.45.
- 2) CONCRETE PAD SHALL BEAR ON A MINIMUM OF 8" OF AGGREGATE BASE COURSE (ABC) MATERIAL COMPACTED TO 98% OF MAXIMUM DENSITY DETERMINED BY ASTM D1557 (MODIFIED PROCTOR). MATERIAL SHOULD BE WITHIN 3% OF OPTIMUM MOISTURE AT TIME OF COMPACTION.
- 3) ALL REINFORCING TO MAINTAIN 3" COVER WHEN CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH.

2 CONCRETE PAD DETAILS
 SCALE: NOT TO SCALE

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CROWN CASTLE
 3 CORPORATE PARK DRIVE, SUITE 101
 CLIFTON PARK, NY 12065

T-MOBILE SITE NUMBER:
CTHA601A

BU #: **876352**
RICHARD WALL

94 EAST HIGH ST.
 EAST HAMPTON, CT 06424

EXISTING 117'-6" MONOPOLE

ISSUED FOR:

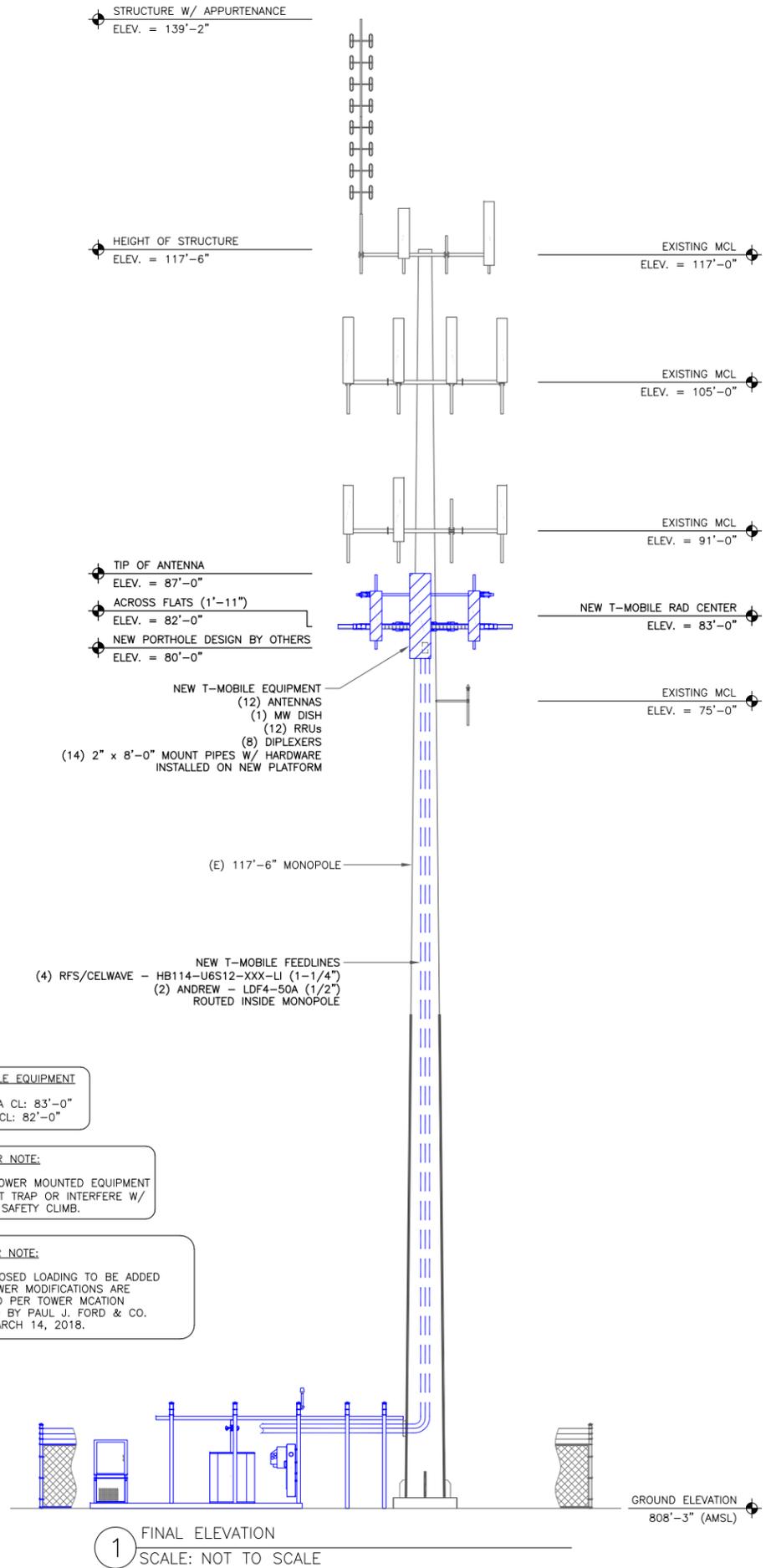
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4	01/08/19	CWJ	GROUND LAYOUT	JPL

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Justin Linette
 JUSTIN LINETTE
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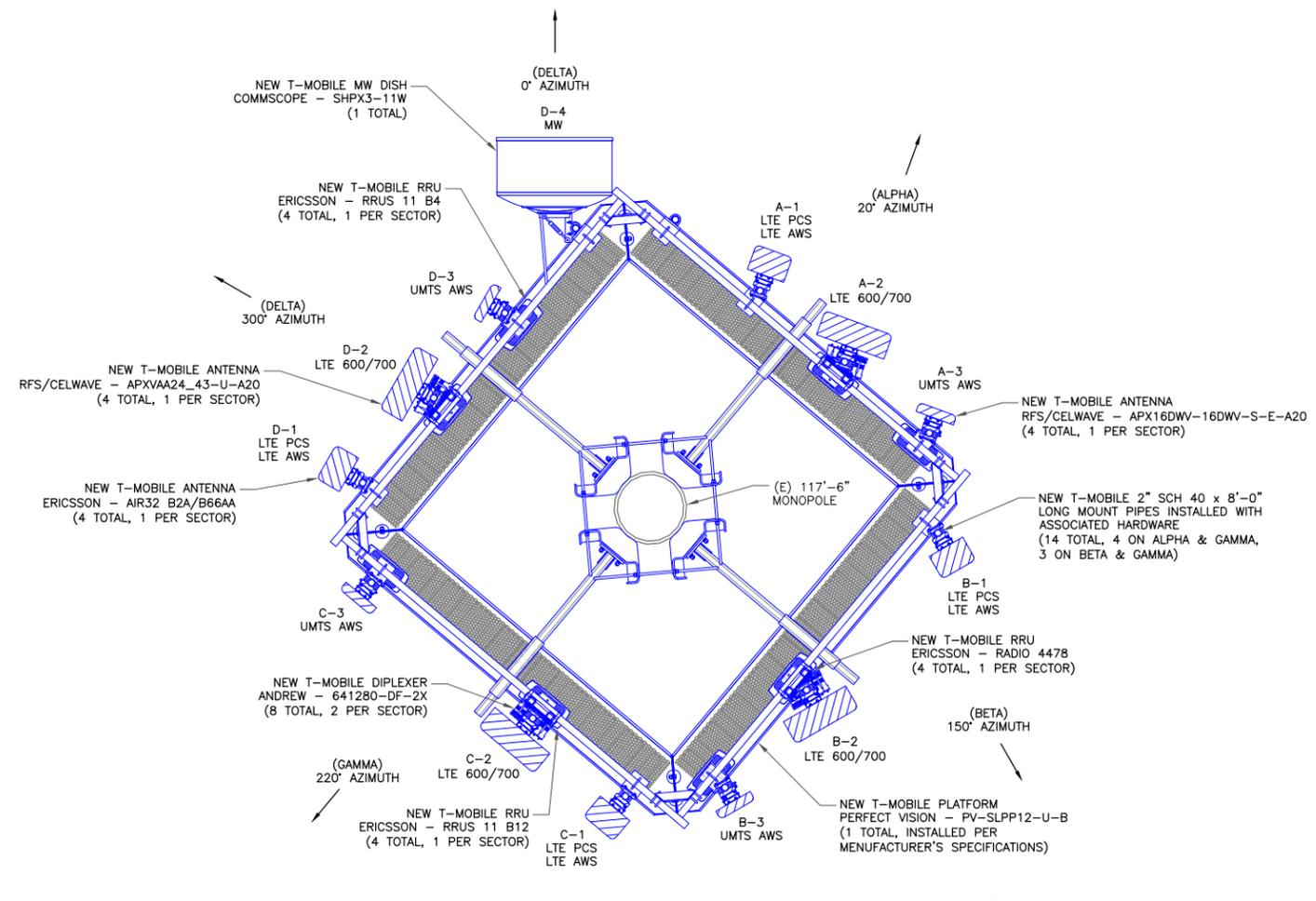
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1 FINAL ELEVATION
SCALE: NOT TO SCALE

ANTENNA SCHEDULE										
SECTOR	POS.	TECHNOLOGY	RAD CENTER	AZIMUTH	ANTENNA MANUFACTURER	ANTENNA MODEL	MECH. TILT	ELECT. TILT	TOWER MOUNTED EQUIPMENT	FEEDLINE TYPE
ALPHA	A-1	LTE PCS LTE AWS	83'-0"	20°	ERICSSON	AIR 32 B2A/B66AA	0'	2'/2'	-	HYBRID (1-1/4")
ALPHA	A-2	LTE 600/700	83'-0"	20°	RFS/CELWAVE	APXVAA24_43-U-A20	0'	2'/2'	(1) RRUS 11 B12, (1) RADIO 4478, (2) ANDREW - 641280-DF-2X	SHARED
ALPHA	A-3	UMTS AWS	83'-0"	20°	RFS/CELWAVE	APX16DWV-16DWV-S-E-A20	0'	2'/-	(1) RRUS 11 B4	SHARED
BETA	B-1	LTE PCS LTE AWS	83'-0"	150°	ERICSSON	AIR 32 B2A/B66AA	0'	2'/2'	-	HYBRID (1-1/4")
BETA	B-2	LTE 600/700	83'-0"	150°	RFS/CELWAVE	APXVAA24_43-U-A20	0'	2'/2'	(1) RRUS 11 B12, (1) RADIO 4478, (2) ANDREW - 641280-DF-2X	SHARED
BETA	B-3	UMTS AWS	83'-0"	150°	RFS/CELWAVE	APX16DWV-16DWV-S-E-A20	0'	2'/-	(1) RRUS 11 B4	SHARED
GAMMA	C-1	LTE PCS LTE AWS	83'-0"	220°	ERICSSON	AIR 32 B2A/B66AA	0'	2'/2'	-	HYBRID (1-1/4")
GAMMA	C-2	LTE 600/700	83'-0"	220°	RFS/CELWAVE	APXVAA24_43-U-A20	0'	2'/2'	(1) RRUS 11 B12, (1) RADIO 4478, (2) ANDREW - 641280-DF-2X	SHARED
GAMMA	C-3	UMTS AWS	83'-0"	220°	RFS/CELWAVE	APX16DWV-16DWV-S-E-A20	0'	2'/-	(1) RRUS 11 B4	SHARED
GAMMA	D-1	LTE PCS LTE AWS	83'-0"	300°	ERICSSON	AIR 32 B2A/B66AA	0'	2'/2'	-	HYBRID (1-1/4")
GAMMA	D-2	LTE 600/700	83'-0"	300°	RFS/CELWAVE	APXVAA24_43-U-A20	0'	2'/2'	(1) RRUS 11 B12, (1) RADIO 4478, (2) ANDREW - 641280-DF-2X	SHARED
GAMMA	D-3	UMTS AWS	83'-0"	300°	RFS/CELWAVE	APX16DWV-16DWV-S-E-A20	0'	2'/-	(1) RRUS 11 B4	SHARED
GAMMA	D-4	MW	83'-0"	0°	COMMSCOPE	SHPX3-11W	0'	0'	-	COAX (1/2")

2 ANTENNA SCHEDULE
SCALE: NOT TO SCALE



3 FINAL ANTENNA LAYOUT
SCALE: NOT TO SCALE

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BU #: **876352**
RICHARD WALL

94 EAST HIGH ST.
EAST HAMPTON, CT 06424

EXISTING 117'-6" MONOPOLE

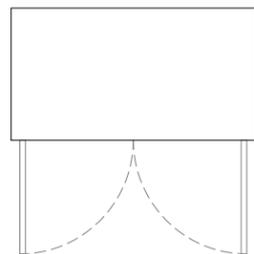
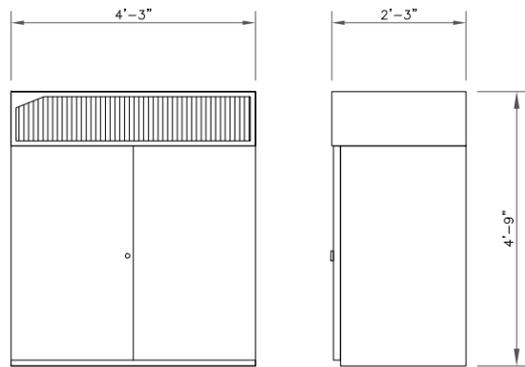
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JUSTIN LINETTE
PETER LINETTE
840852547C41D
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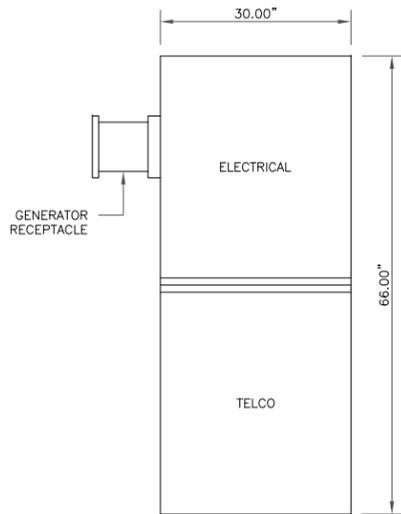
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EQUIPMENT NOTES:
 HEIGHTxWIDTHxDEPTH: 57.08" x 51.00" x 27.55"
 (1450.0mm x 1300.0mm x 700.0mm)
 APPROX. MAX. WEIGHT: 859 LBS (390 kg)

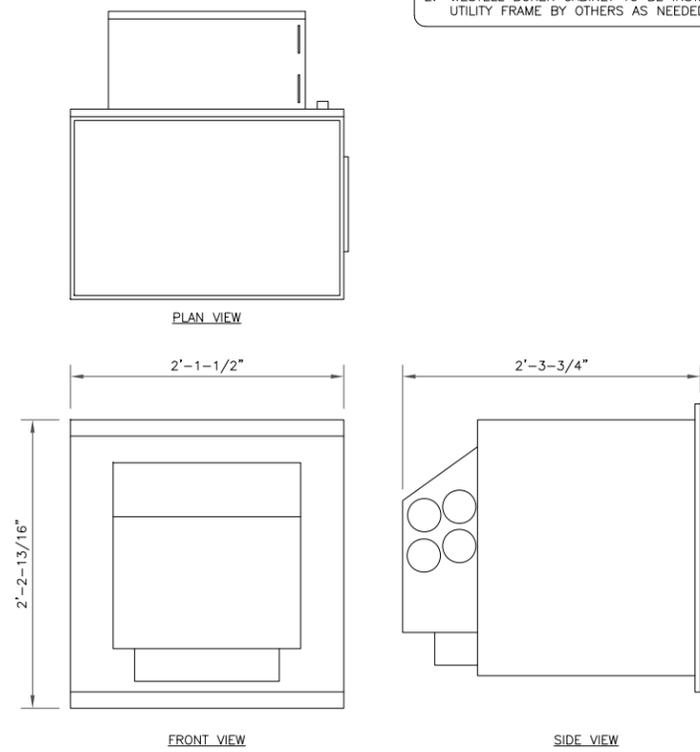
1 ERICSSON - RBS 6102
 SCALE: NOT TO SCALE

EMERSON SPECIFICATIONS (CS2S2-W736 PPC)
 DIMENSIONS (WxHxD): 66.00" x 30.00" x 10.00"
 WEIGHT: APPROXIMATELY 150 LBS
 VOLTAGE: 240/120 VAC, SINGLE PHASE
 AMPERAGE: 200A
 FAULT CURRENT RATING: 65kAIC
 MAIN BREAKERS: 200A SQUARE D, QG TYPE
 TRANSFER TYPE: SLIDE BAR MECHANICAL INTERLOCK
 DISTRIBUTION: 24 POSITION, 200A LOAD CENTER
 BRANCH BREAKERS: 60A, 240VAC, SQUARE D (TVSS)
 20A, 120VAC, SQUARE D (CONVENIENCE OUTLETS)
 10A, 120VAC, SQUARE D (COOLING FAN)
 GENERATOR RECEPTACLE: 200A APPLETON (LEFT OR RIGHT MOUNT)



2 EMERSON - CS2S2-W736
 SCALE: NOT TO SCALE

EQUIPMENT NOTES:
 1. MOUNT PER MANUFACTURER'S SPECIFICATIONS.
 2. WESTELL BOXER CABINET TO BE INSTALLED ON UTILITY FRAME BY OTHERS AS NEEDED.



3 WESTELL BOXER CABINET
 SCALE: NOT TO SCALE

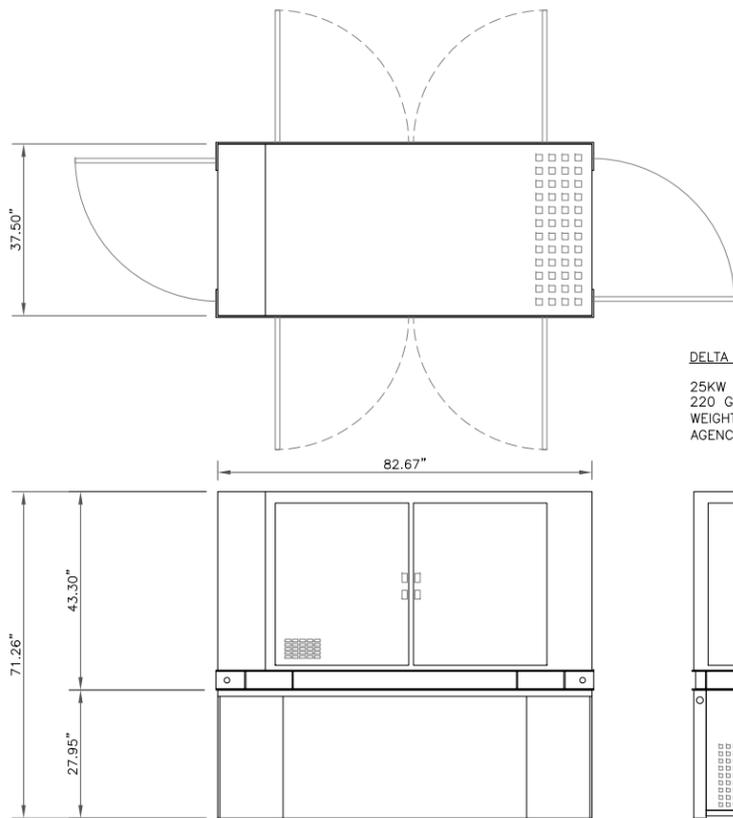
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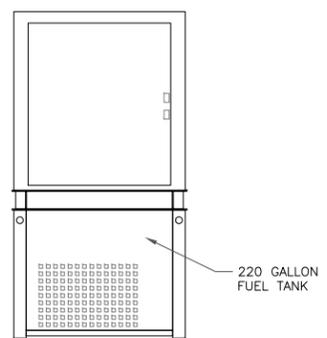
T-MOBILE SITE NUMBER:
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 BU #: 876352
RICHARD WALL
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 EXISTING 117'-6" MONOPOLE

ISSUED FOR:

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4	01/08/19	CWJ	GROUND LAYOUT	JPL



DELTA - ESOG150-PCA01:
 25KW DIESEL DC GENERATOR
 220 GALLON FUEL TANK
 WEIGHT: 5,000 LBS MAX (APPROXIMATE)
 AGENCY LISTINGS: UL 2200/UL 142



4 DIESEL DC GENSET 25 KW (ESOG150-PCA01)
 SCALE: NOT TO SCALE

NEPA 704 HAZARD IDENTIFICATION SYSTEM 15" DIAMOND



HAZARD RATINGS:
 NINE O'CLOCK - HEALTH (BLUE BACKGROUND, BLACK LETTERING)
 TWELVE O'CLOCK - FLAMMABILITY (RED BACKGROUND, BLACK LETTERING)
 THREE O'CLOCK - INSTABILITY (YELLOW BACKGROUND, BLACK LETTERING)
 SIX O'CLOCK - SPECIAL (WHITE BACKGROUND, BLACK LETTERING)

5 GENERATOR SIGN DETAIL
 SCALE: NOT TO SCALE

DIESEL FUEL
 COMBUSTIBLE
 NO SMOKING
 NO OPEN FLAMES
 FUEL TANK CAPACITY 110 GALS

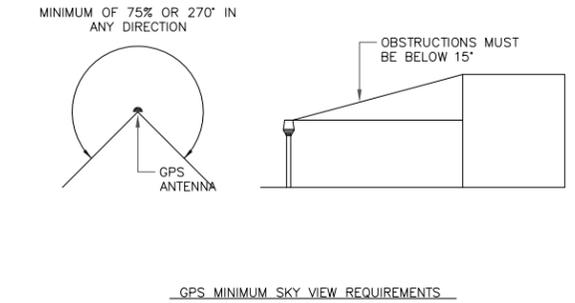
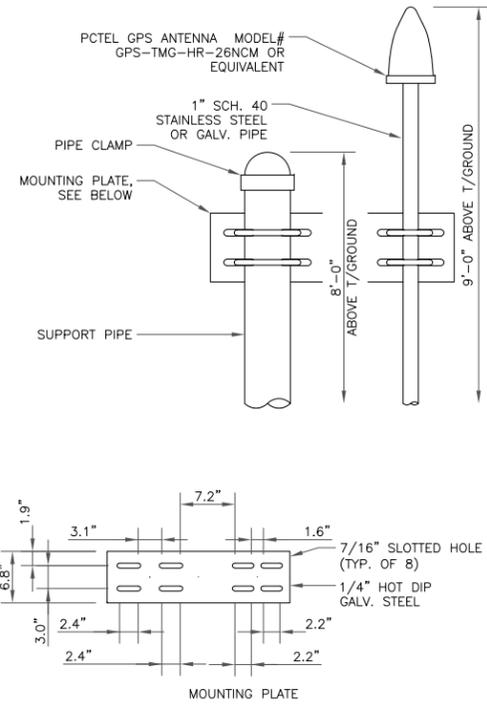
DIESEL (WHITE LETTERING W/ RED BACKGROUND)
COMBUSTIBLE (BLACK LETTERING W/ WHITE BACKGROUND)
FLAMMABLE (BLACK LETTERING W/ WHITE BACKGROUND)
NO SMOKING (BLACK LETTERING W/ WHITE BACKGROUND)

NOTE:
 1. SIGNS MUST BE MADE OF DURABLE MATERIAL.
 2. LETTERS SHALL NOT BE LESS THAN 3" (76.2mm) MIN. IN HEIGHT & 1/2" (12.7mm) IN STROKE.
 3. SIGNS SHALL NOT BE OBSCURED OR REMOVED & SHALL BE IN ENGLISH AS A PRIMARY LANGUAGE.
 4. SIGNS TO BE PLACED ON GENERATOR/FUEL TANK PER NEPA 704.
 5. CONTRACTOR TO PROVIDE ALL REQUIRED SIGNAGE.

DocuSigned by:
 Justin Linette
 JUSTIN LINETTE
 STATE OF CONNECTICUT
 PETER LINETTE
 080852547C41D
 No. 31965
 LICENSED PROFESSIONAL ENGINEER
 1/8/2019 1:11:17 PM EST
 CROWN CASTLE USA INC. USA Inc.
 Certificate of Registration #PEC.0001101

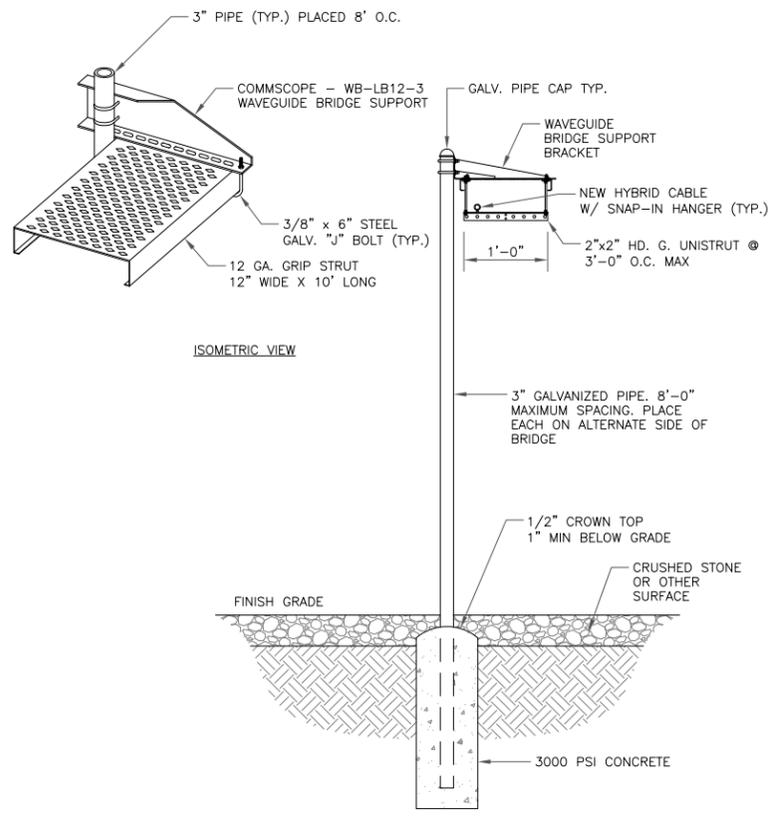
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SHEET NUMBER: **C-5** REVISION: **4**

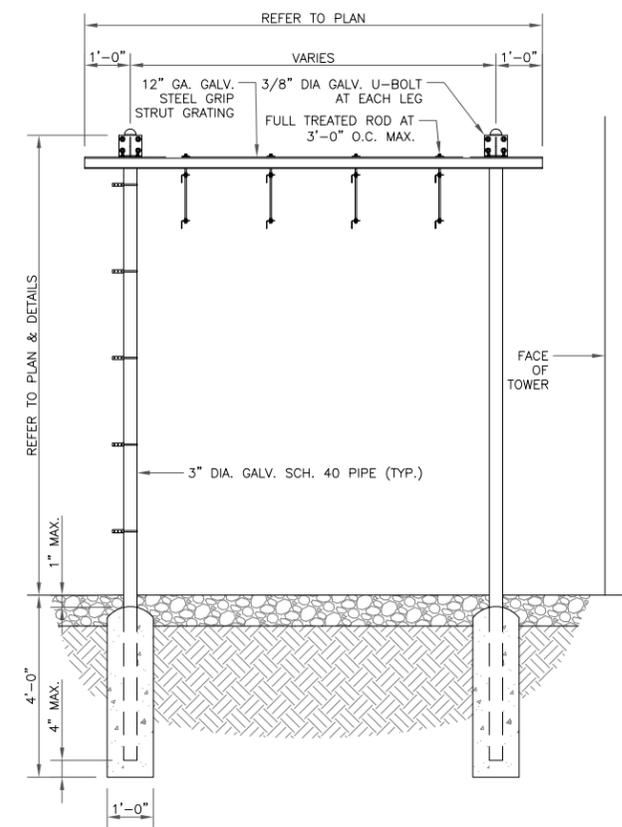


- NOTES:**
1. THE ELEVATION AND LOCATION OF THE GPS ANTENNA SHALL BE IN ACCORDANCE WITH THE FINAL RF REPORT.
 2. THE GPS ANTENNA MOUNT IS DESIGNED TO FASTEN TO A STANDARD 1-1/4" O.D. SCHEDULE 40, GALVANIZED STEEL OR STAINLESS STEEL PIPE. THE PIPE MUST NOT BE THREADED AT THE ANTENNA MOUNT. THE PIPE SHALL BE CUT TO THE REQUIRED LENGTH (MINIMUM OF 18 INCHES) USING A HAND OR ROTARY PIPE CUTTER TO ASSURE A SMOOTH AND PERPENDICULAR CUT. A HACK SAW SHALL NOT BE USED. THE CUT PIPE END SHALL BE DEBARRED AND SMOOTH IN ORDER TO SEAL AGAINST THE NEOPRENE GASKET ATTACHED TO THE ANTENNA MOUNT.
 3. IT IS CRITICAL THAT THE GPS ANTENNA IS MOUNTED SUCH THAT IT IS WITHIN 2 DEGREES OF VERTICAL AND THE BASE OF THE ANTENNA IS WITHIN 2 DEGREES OF LEVEL.
 4. DO NOT SWEEP TEST GPS ANTENNA.

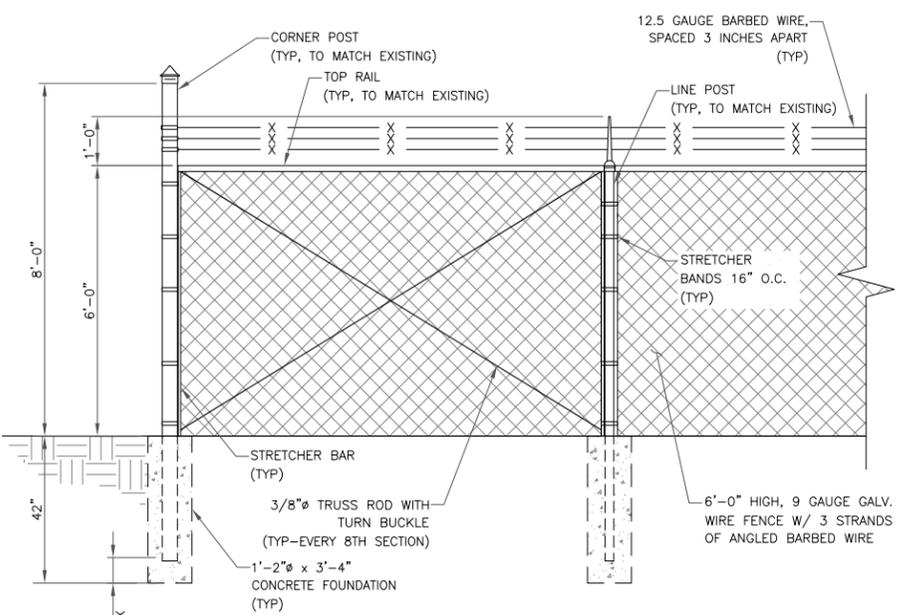
1 GPS ANTENNA DETAIL
SCALE: NOT TO SCALE



2 ICE BRIDGE DETAIL
SCALE: NOT TO SCALE

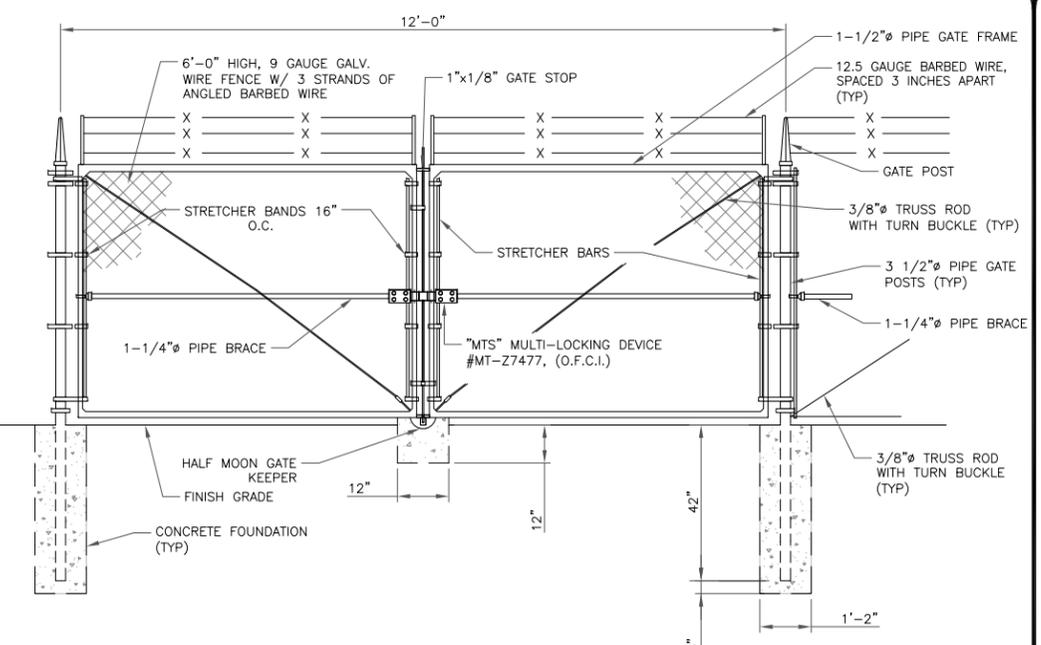


5 SECTION THROUGH COMPOUND
SCALE: NOT TO SCALE

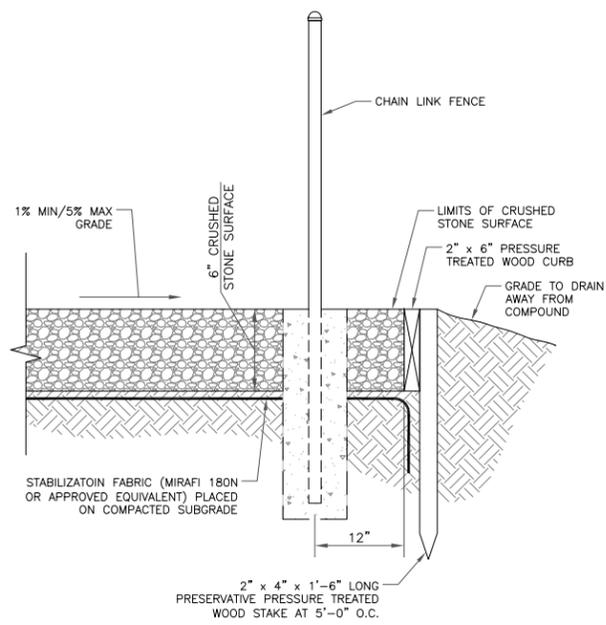


CHAIN LINK FENCING:
CHAIN LINK FENCE FABRIC TO BE GALVANIZED, 9 GAGE WIRE. FENCE FABRIC TO HAVE 2-INCH OPENINGS. SELVAGE TO BE KNUCKLED BOTH ENDS (UNLESS NOTED OTHERWISE). ZINC COATING TO BE CLASS 2 WITH MINIMUM 2 OUNCES OF ZINC PER SQUARE FOOT OF COATING - SEE ASTM A392. FENCE TO BE INSTALLED PER ASTM F567 AND THE STANDARD GUIDE FROM THE CHAIN LINK FENCE MANUFACTURER'S INSTITUTE. WHERE OCCURS, CHAIN LINK SWING GATES TO BE INSTALLED PER ASTM F900 AND CHAIN LINK HORIZONTAL SLIDING GATES TO BE INSTALLED PER ASTM F1184.

3 CHAIN LINK FENCE DETAIL
SCALE: NOT TO SCALE



4 12'-0" WIDE DOUBLE SWING GATE
SCALE: NOT TO SCALE



T-Mobile
12920 SE 38TH STREET
BELLEVUE, WA 98006

CROWN CASTLE
3 CORPORATE PARK DRIVE, SUITE 101
CLIFTON PARK, NY 12065

T-MOBILE SITE NUMBER:
CTHA601A

BU #: 876352
RICHARD WALL

94 EAST HIGH ST.
EAST HAMPTON, CT 06424

EXISTING 117'-6" MONOPOLE

ISSUED FOR:

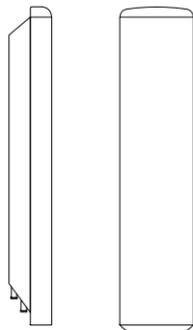
REV	DATE	DRWN	DESCRIPTION	DES./QA
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B	03/28/18	CWJ	PRELIMINARY	ZTK
C	05/10/18	CWJ	PRELIMINARY	ZTK
0	05/29/18	CWJ	CONSTRUCTION	JPL
1	07/03/18	CWJ	GROUND LAYOUT	JPL
2	07/30/18	CWJ	WORK LIGHT	JPL
3	09/06/18	CWJ	GROUND LAYOUT	JPL
4	01/08/19	CWJ	GROUND LAYOUT	JPL

DocuSigned by:
PETER LINETTE
840852547C41D...
No. 31965
LICENSED PROFESSIONAL ENGINEER
1/8/2019 1:11:17 PM EST

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Certificate of Registration #PEC.0001101

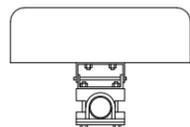
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SHEET NUMBER: **C-6** REVISION: **4**



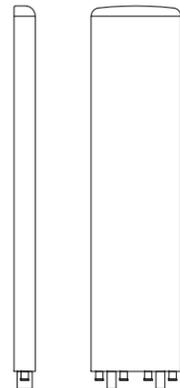
ERICSSON - AIR 32 B2A/B66AA
 WEIGHT (WITHOUT MOUNTING HARDWARE): 132.2 LBS
 SIZE (HxWxD): 56.6x12.9x8.7 IN.
 RATED WIND VELOCITY: 150.0 MPH

1 ERICSSON - AIR 32 B2A/B66AA
 SCALE: NOT TO SCALE



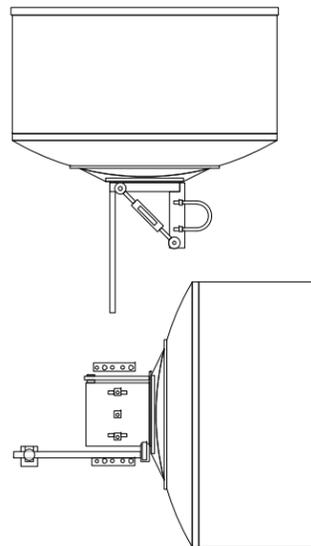
RFS/CELWAVE - APXVAA24_43-U-A20
 WEIGHT (WITHOUT MOUNTING HARDWARE): 101.4 LBS
 SIZE (HxWxD): 96.0x24.0x8.5 IN.

2 RFS/CELWAVE - APXVAA24_43-U-A20
 SCALE: NOT TO SCALE



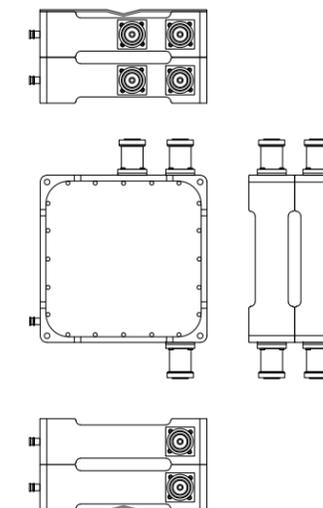
RFS/CELWAVE - APX16DW-16DW-S-E-A20
 WEIGHT (WITHOUT MOUNTING HARDWARE): 40.7 LBS
 SIZE (HxWxD): 55.9x13.3x3.15 IN.
 MOUNTING HARDWARE P/N: APM40-2 + APM40-E2
 RATED WIND VELOCITY: 160 MPH

3 RFS/CELWAVE - APX16DW-16DW-S-E-A20
 SCALE: NOT TO SCALE



COMMSCOPE - SHPX3-11W
 WEIGHT: 67.0 LBS
 SIZE (HxWxD): 39.0x39.0x35.0 IN.

4 COMMSCOPE - SHPX3-11W
 SCALE: NOT TO SCALE



ANDREW - 641280-DF-2X
 WEIGHT: 11.0 LBS
 SIZE (HxWxD): 7.3x7.3x3.9 IN.

5 ANDREW - 641280-DF-2X
 SCALE: NOT TO SCALE

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 CLIFTON PARK, NY 12065

T-MOBILE SITE NUMBER:
CTHA601A

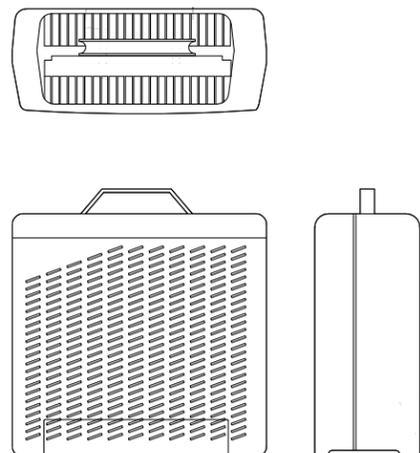
BU #: **876352**
RICHARD WALL

94 EAST HIGH ST.
 EAST HAMPTON, CT 06424

EXISTING 117'-6" MONOPOLE

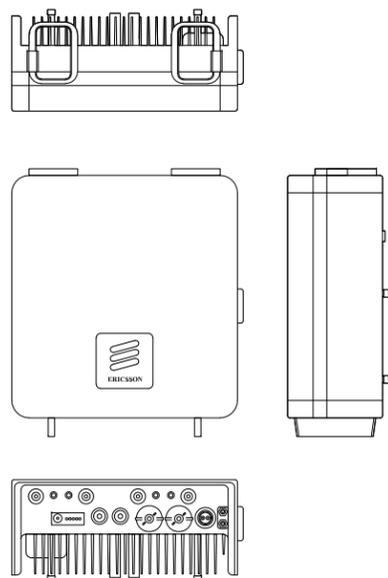
ISSUED FOR:

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B	03/28/18	CWJ	PRELIMINARY	ZTK
C	05/10/18	CWJ	PRELIMINARY	ZTK
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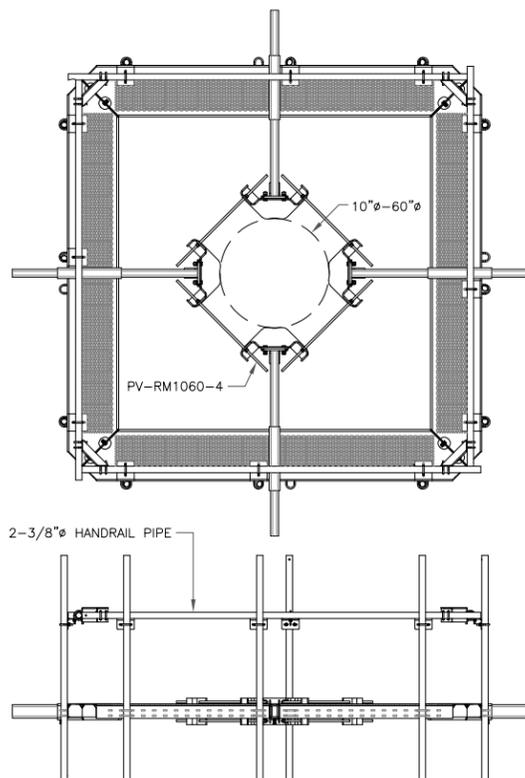
ERICSSON - RRUS 11
 WEIGHT (FULLY EQUIPPED): 50.7 LBS
 SIZE (HxWxD): 19.7x17.0x7.2 IN.

6 ERICSSON - RRUS 11
 SCALE: NOT TO SCALE

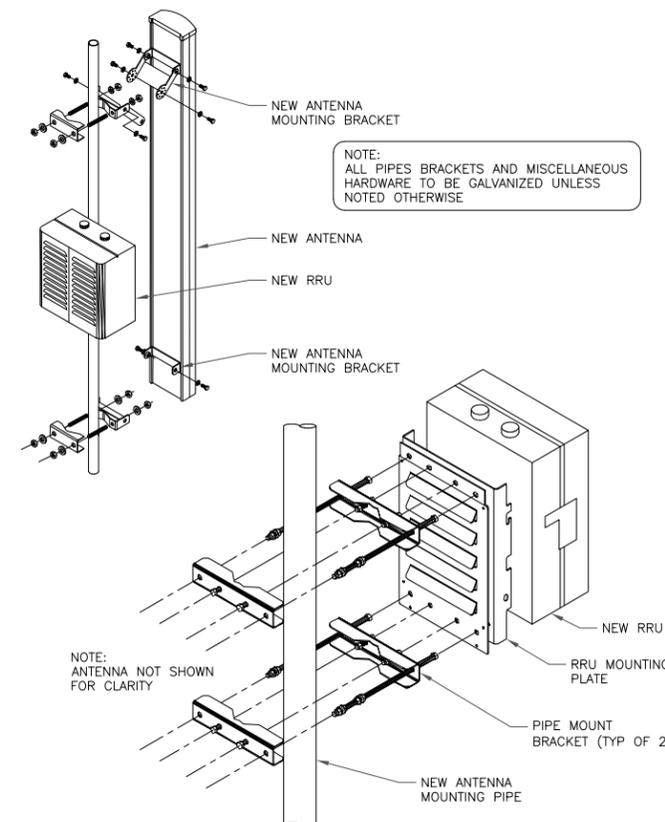


ERICSSON - RADIO 4478
 WEIGHT: 60.0 LBS
 SIZE (HxWxD): 15.0x13.0x8.0 IN.

7 ERICSSON - RADIO 4478
 SCALE: NOT TO SCALE



8 PERFECT VISION - PV-SLPP12U-HR-B
 SCALE: NOT TO SCALE



9 ANTENNA & RRU MOUNTING DETAIL
 SCALE: NOT TO SCALE

DocuSigned by:
 Justin Linette
 JUSTIN LINETTE
 STATE OF CONNECTICUT
 PETER LINETTE
 840852547C41D
 No. 31965
 LICENSED PROFESSIONAL ENGINEER
 1/8/2019 1:17:56 PM EST

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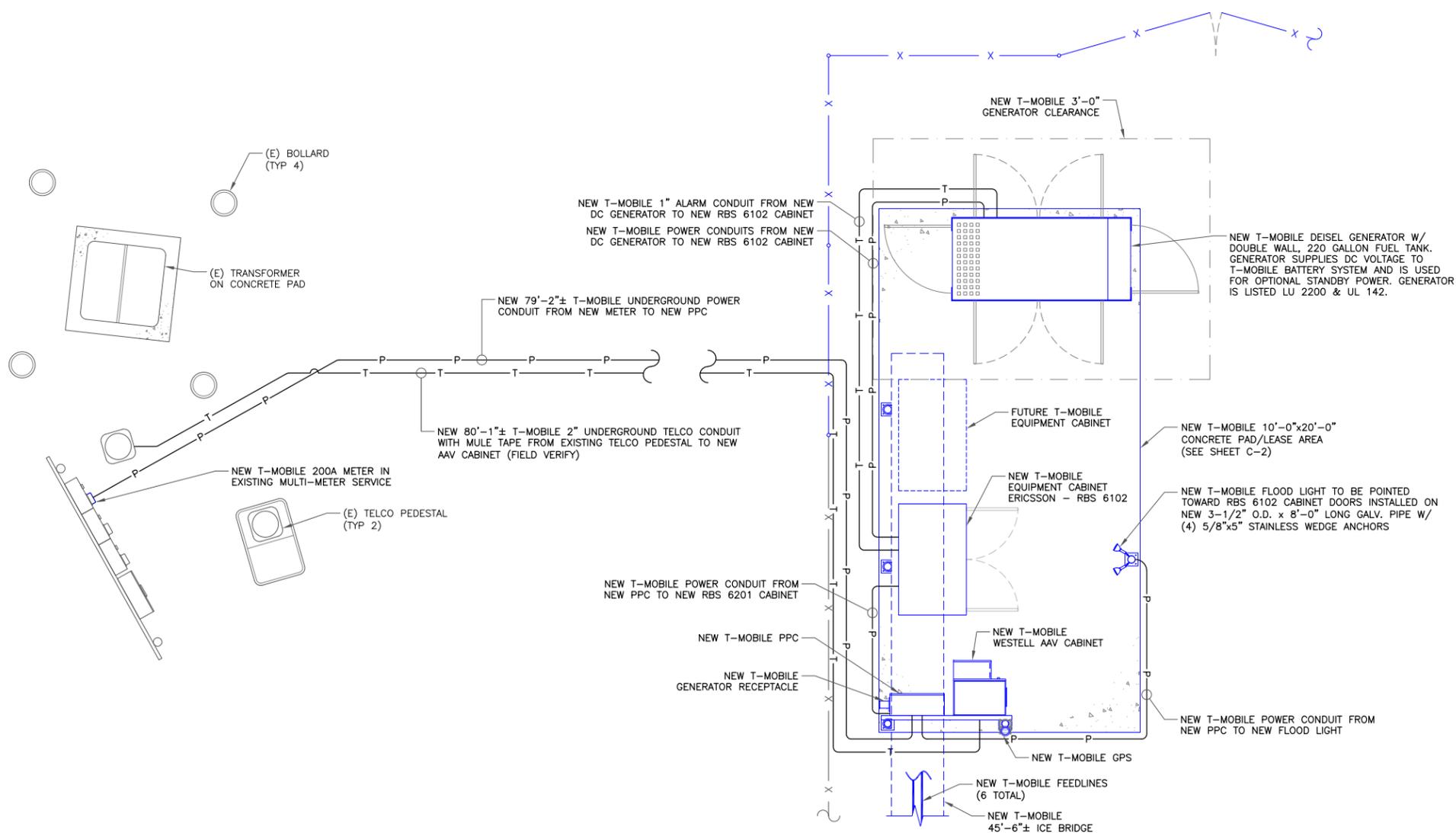
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SHEET NUMBER: **C-7** REVISION: **4**

ELECTRICAL NOTES:

- ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.
- ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER SPECIFICATION REQUIREMENTS.
- THE ELECTRICAL WORK INCLUDES ALL LABOR AND MATERIAL DESCRIBED BY DRAWINGS AND SPECIFICATION INCLUDING INCIDENTAL WORK TO PROVIDE COMPLETE OPERATING AND APPROVED ELECTRICAL SYSTEM.
- GENERAL CONTRACTOR SHOULD PAY FEES FOR PERMITS, AND IS RESPONSIBLE FOR OBTAINING SAID PERMITS AND COORDINATION OF INSPECTIONS.
- ELECTRICAL AND TELCO WIRING AT EXPOSED INDOOR LOCATIONS SHALL BE IN ELECTRICAL METALLIC TUBING OR RIGID NONMETALLIC TUBING (RIGID SCHEDULE 40 PVC OR RIGID SCHEDULE 80 PVC FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) (AS PERMITTED BY CODE).
- ELECTRICAL AND TELCO WIRING AT CONCEALED INDOOR LOCATIONS SHALL BE IN ELECTRICAL METALLIC TUBING, ELECTRICAL NONMETALLIC TUBING OR RIGID MONOMETALLIC TUBING (RIGID SCHEDULE 40 PVC (AS PERMITTED BY CODE)).
- ELECTRICAL AND TELCO WIRING OUTSIDE A BUILDING, ABOVE GRADE AND EXPOSED TO WEATHER SHALL BE IN WATER TIGHT GALVANIZED RIGID STEEL CONDUCTS (RGS) AND WHERE REQUIRED IN LIQUID TIGHT FLEXIBLE METAL OR NONMETALLIC CONDUCTS.
- BURIED CONDUIT SHALL BE RIGID NONMETALLIC CONDUIT (RIGID SCHEDULE 40 PVC); DIRECT BURIED IN AREAS OF OCCASIONAL LIGHT TRAFFIC, ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY TRAFFIC.
- LIQUIDTIGHT FLEXIBLE METAL LMFC CONDUIT SHALL BE USED INDOORS AND OUTDOORS IN AREAS WHERE VIBRATION OCCURS AND FLEXIBILITY IS NEEDED.
- RUN ELECTRICAL CONDUIT OR CABLE BETWEEN ELECTRICAL UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE PPC AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPE. COORDINATE INSTALLATION WITH UTILITY COMPANY.
- RUN TELCO CONDUIT OR CABLE BETWEEN TELEPHONE UTILITY DEMARCATION POINT (AT UTILITY POLE) AND CELL SITE TELCO CABINET AND BTS CABINET AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPE INSTALLED TELCO CONDUIT. PROVIDE GREENLEE CONDUIT MEASURING TAPE AT EACH END.

- ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NEMA 3R ENCLOSURE.
- PPC SUPPLIED BY PROJECT OWNER.
- GROUNDING SHALL COMPLY WITH NEC ART. 250. ADDITIONALLY, GROUNDING, BONDING, AND LIGHTING PROTECTION SHALL BE DONE IN ACCORDANCE WITH METRO MOD CELL SITE GROUNDING STANDARDS.
- GROUND CABLE SHIELD MINIMUM AT BOTH ENDS USING MANUFACTURERS CABLE GROUNDING KITS SUPPLIED BY T-MOBILE.
- USE #6 COPPER STRANDED WIRE WITH GREEN COLOR INSULATION FOR ABOVE GRADE GROUNDING (UNLESS OTHERWISE SPECIFIED) AND #2 SOLID TINNED BARE COPPER WIRE FOR BELOW GRADE GROUNDING AS INDICATED ON THE DRAWING.
- ALL POWER AND GROUND CONNECTIONS TO BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY HARGER (OR APPROVED EQUAL) RATED FOR OPERATION AT NO LESS THAN 75°C OR CADWELD EXOTHERMIC WELD. DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.
- ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT OTHERWISE INDICATED. GROUNDING LEADS SHOULD NEVER BE BENT AT RIGHT ANGLE. ALWAYS MAKE AT LEAST 12" RADIUS BENDS. #6 WIRE CAN BE BENT AT 6" RADIUS WHEN NECESSARY. BOND ANY METAL OBJECTS WITHIN 6 FEET OF PROJECT OWNER EQUIPMENT OR CABINET TO MASTER GROUND BAR OR GROUNDING RING.
- CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHABITING COMPOUND TO ALL LOCATIONS.
- APPLY OXIDE INHABITING COMPOUND TO ALL MECHANICAL GROUND CONNECTIONS.
- CONTRACTOR SHALL TEST COMPLETED GROUND SYSTEM AND RECORD RESULTS FOR PROJECT CLOSE-OUT DOCUMENTATION. 5 OHMS MINIMUM RESISTANCE REQUIRED.
- CONTRACTOR SHALL CONDUCT ANTENNA, CABLE, AND LNA RETURN-LOSS AND DISTANCE-TO-FAULT MEASUREMENTS (SWEEP TESTS) AND RECORD RESULTS FOR PROJECT CLOSE-OUT.
- THE T-MOBILE ELECTRICAL EQUIPMENT INCLUDING PANEL, SWITCH GEAR AND DISCONNECT ARE TO BE LABELED WITH ENGRAVED BAKELITE LABELS.



1 ELECTRICAL SITE PLAN
 SCALE: 3/8"=1'-0" (FULL SIZE)
 3/16"=1'-0" (11x17)



T-Mobile
 12920 SE 38TH STREET
 BELLEVUE, WA 98006

CROWN CASTLE
 3 CORPORATE PARK DRIVE, SUITE 101
 CLIFTON PARK, NY 12065

T-MOBILE SITE NUMBER:
CTHA601A

BU #: 876352
RICHARD WALL

94 EAST HIGH ST.
 EAST HAMPTON, CT 06424

EXISTING 117'-6" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	03/20/18	CWJ	PRELIMINARY	ZTK
B	03/28/18	CWJ	PRELIMINARY	ZTK
C	05/10/18	CWJ	PRELIMINARY	ZTK
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3	09/06/18	CWJ	GROUND LAYOUT	JPL
4	01/08/19	CWJ	GROUND LAYOUT	JPL

DocuSigned by:
 JUSTIN WESTELL
 JUSTIN WESTELL
 PETER LINETTE
 840852547C41D
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SHEET NUMBER: **E-1** REVISION: **4**

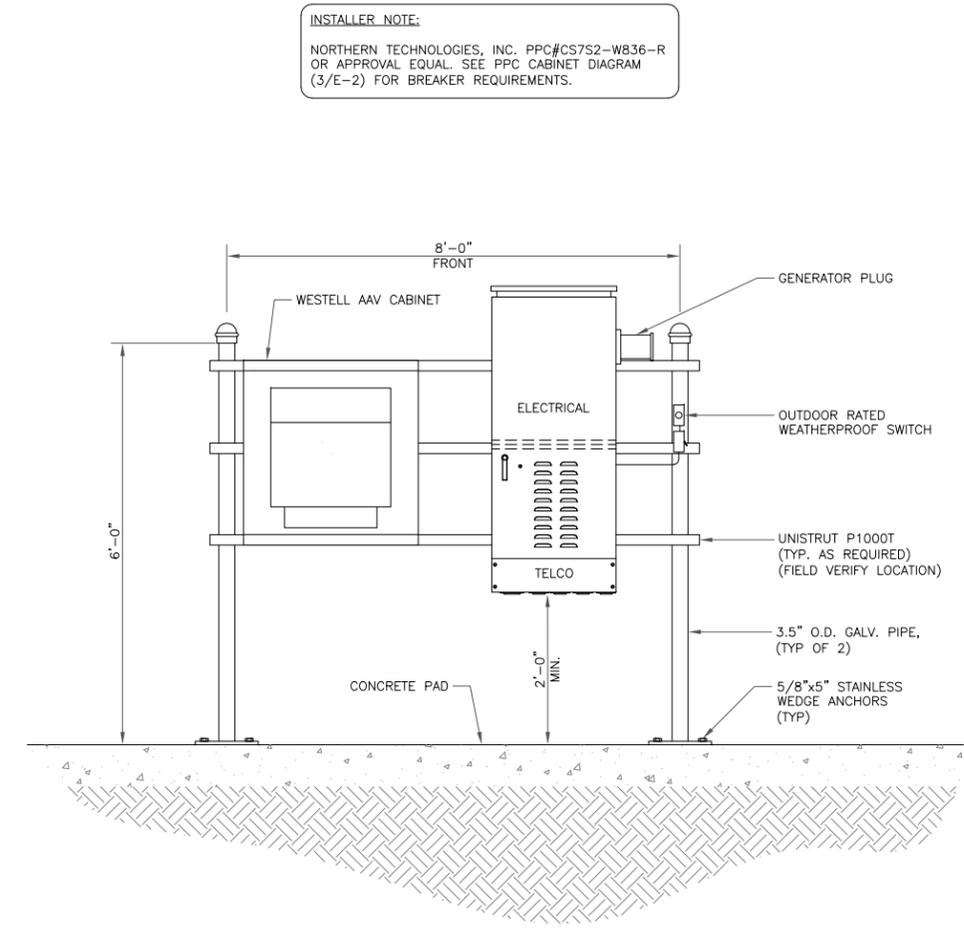
T-MOBILE PPC PANEL SCHEDULE

MAIN: 200 AMP MAIN BREAKER		VOLTAGE/PHASE: 120/240V, 1-PHASE, 3-WIRE										SHORT CIRCUIT CURRENT RATING: 65,000 AMPS							
MOUNTING: INSIDE PPC ENCLOSURE		ENCLOSURE: NEMA 3R										SURGE PROTECTION DEVICE: YES							
SERVICE FROM: N/A		MANUFACTURER: SCHNEIDER ELECTRIC (SQUARE D)										MODEL NUMBER: QO PANEL							
DESCRIPTION	CONDUCTORS & CONDUIT				LOAD (VA)	C or NC	C/B	CIR No.	LOAD (VA)		CIR No.	C/B	C or NC	LOAD (VA)	CONDUCTORS & CONDUIT				DESCRIPTION
	HOT	NEUTRAL	GROUND	CONDUIT					A-PHASE	B-PHASE					HOT	NEUTRAL	GROUND	CONDUIT	
SURGE PROTECTION DEVICE **	--	--	--	--	0	NC	60	1	4800	2	100	C	4800	2	2	8	1-1/4"	RBS 6102 CABINET	
GFCI RECEPTACLE **	--	--	--	--	180	NC	20	5	430	6	20	NC	250	12	12	12	1/2"	LED LIGHT & GFCI RECEPTACLE	
COOLING FAN **	--	--	--	--	100	NC	10	7											
BLANK								9	0									BLANK	
								11	0										
								13	0										
								15	0										
								17	0										
								19	0										
								21	0										
								23	0										
								24	0										
BASE LOAD (VA) =								5230	4900										
25% OF CONTINUOUS LOAD (VA) =								1200	1200										
TOTAL LOAD (VA) =								6430	6100										
TOTAL LOAD (A) =								54	51										

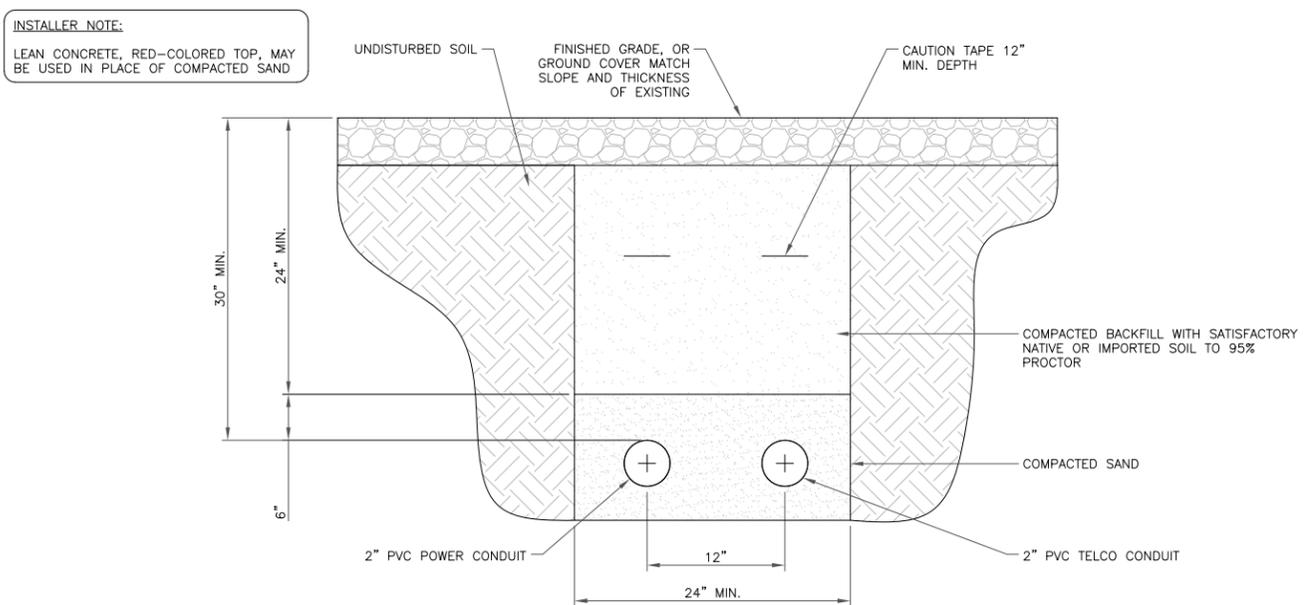
** FACTORY WIRED

*C AND *NC IDENTIFIES WHETHER CONTINUOUS OR NON-CONTINUOUS LOAD

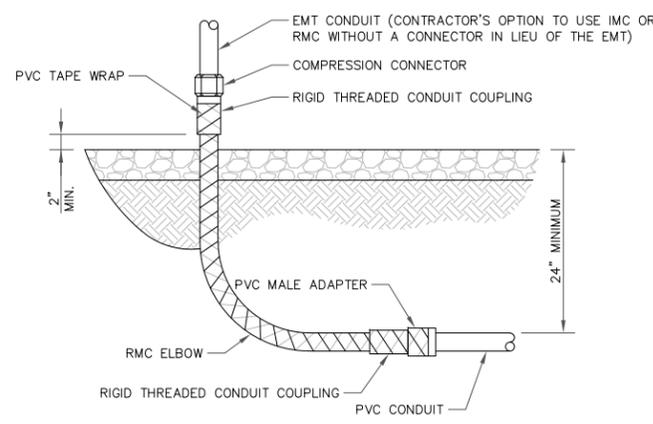
1 ELECTRICAL PANEL
SCALE: NOT TO SCALE



2 H-FRAME DETAIL
SCALE: NOT TO SCALE



3 TYPICAL ELECTRIC & TELCO TRENCH DETAIL
SCALE: NOT TO SCALE



4 UNDERGROUND CONDUIT STUB UP
SCALE: NOT TO SCALE

ALL METAL CONDUIT INSTALLED IN DIRECT CONTACT WITH THE EARTH SHALL BE CONSIDERED TO BE INSTALLED IN A SEVERELY CORROSIVE ENVIRONMENT AND IS REQUIRED TO HAVE SUPPLEMENTAL PROTECTION AGAINST CORROSION (NEC ARTICLE 342.10(B) & 344.10(B)(1)). THIS PROTECTION SHALL EITHER BE AN APPROVED MANUFACTURER INSTALLED PROTECTIVE COATING ON THE CONDUIT OR SHALL BE (2) LAYERS OF 10 MIL PVC PIPE WRAP TAPE INSTALLED USING OPPOSING SPIRAL WRAPS. ON VERTICAL PIPE THE OUTSIDE LAYER OF TAPE SHALL BE WRAPPED SO AS TO PROVIDE SHEDDING OF WATER (i.e. TAPE SHOULD WRAP IN AN UPWARD DIRECTION WITH LOWER WRAP BEING BENEATH THE WRAP ABOVE). SPIRAL WRAPS SHALL HAVE A MINIMUM OF 1/4" OVERLAP WITH THE PRECEDING TAPE WRAP. ANY OTHER METHODS OF CORROSION PROTECTION SHALL REQUIRE APPROVAL BY THE ENGINEER OF RECORD PRIOR TO BEING USED.



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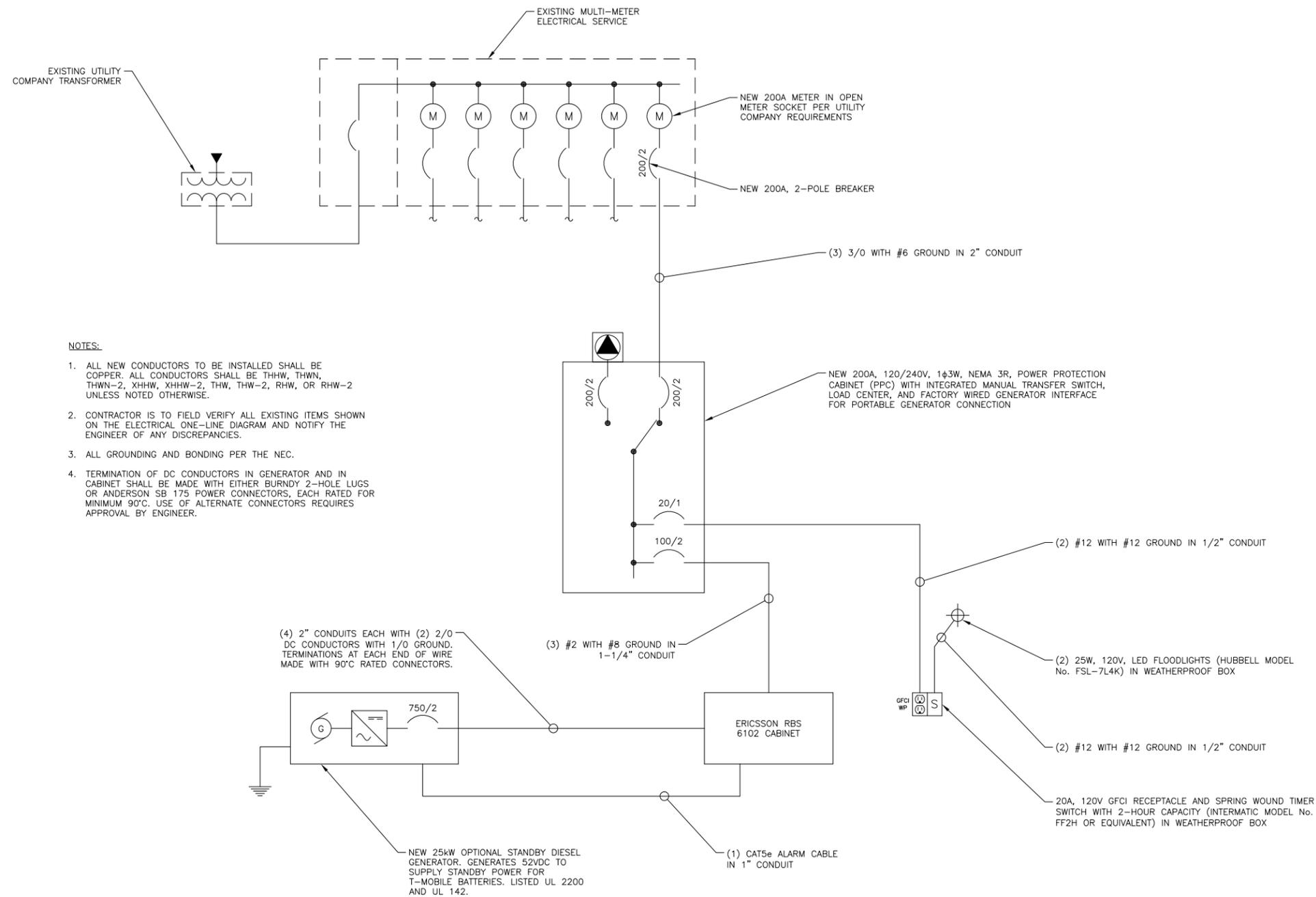
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SHEET NUMBER: **E-2** REVISION: **4**



NOTES:

1. ALL NEW CONDUCTORS TO BE INSTALLED SHALL BE COPPER. ALL CONDUCTORS SHALL BE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 UNLESS NOTED OTHERWISE.
2. CONTRACTOR IS TO FIELD VERIFY ALL EXISTING ITEMS SHOWN ON THE ELECTRICAL ONE-LINE DIAGRAM AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
3. ALL GROUNDING AND BONDING PER THE NEC.
4. TERMINATION OF DC CONDUCTORS IN GENERATOR AND IN CABINET SHALL BE MADE WITH EITHER BURNDY 2-HOLE LUGS OR ANDERSON SB 175 POWER CONNECTORS, EACH RATED FOR MINIMUM 90°C. USE OF ALTERNATE CONNECTORS REQUIRES APPROVAL BY ENGINEER.

1 ONE-LINE DIAGRAM
SCALE: NOT TO SCALE

T-Mobile
12920 SE 38TH STREET
BELLEVUE, WA 98006

CROWN CASTLE
3 CORPORATE PARK DRIVE, SUITE 101
CLIFTON PARK, NY 12065

T-MOBILE SITE NUMBER:
CTHA601A

BU #: **876352**
RICHARD WALL

94 EAST HIGH ST.
EAST HAMPTON, CT 06424

EXISTING 117'-6" MONOPOLE

ISSUED FOR:

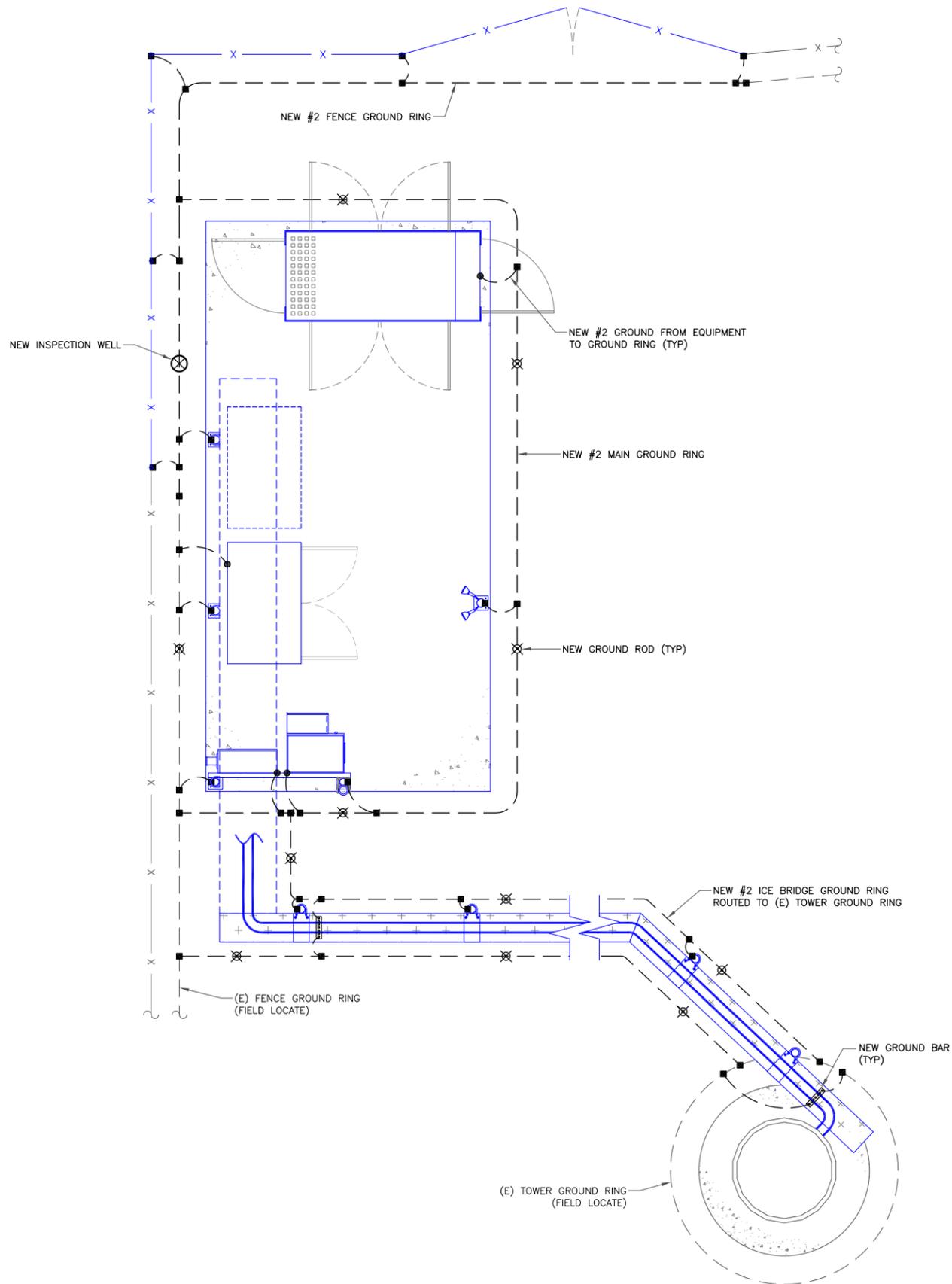
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A	03/20/18	CWJ	PRELIMINARY	ZTK
B	03/28/18	CWJ	PRELIMINARY	ZTK
C	05/10/18	CWJ	PRELIMINARY	ZTK
0	05/29/18	CWJ	CONSTRUCTION	JPL
1	07/03/18	CWJ	GROUND LAYOUT	JPL
2	07/30/18	CWJ	WORK LIGHT	JPL
3	09/06/18	CWJ	GROUND LAYOUT	JPL
4	01/08/19	CWJ	GROUND LAYOUT	JPL

DocuSigned by:
Justin Linette
JUSTIN LINETTE
PETER LINETTE
840852547C41D
No. 31965
LICENSED PROFESSIONAL ENGINEER
1/8/2019 1:11:17 PM EST

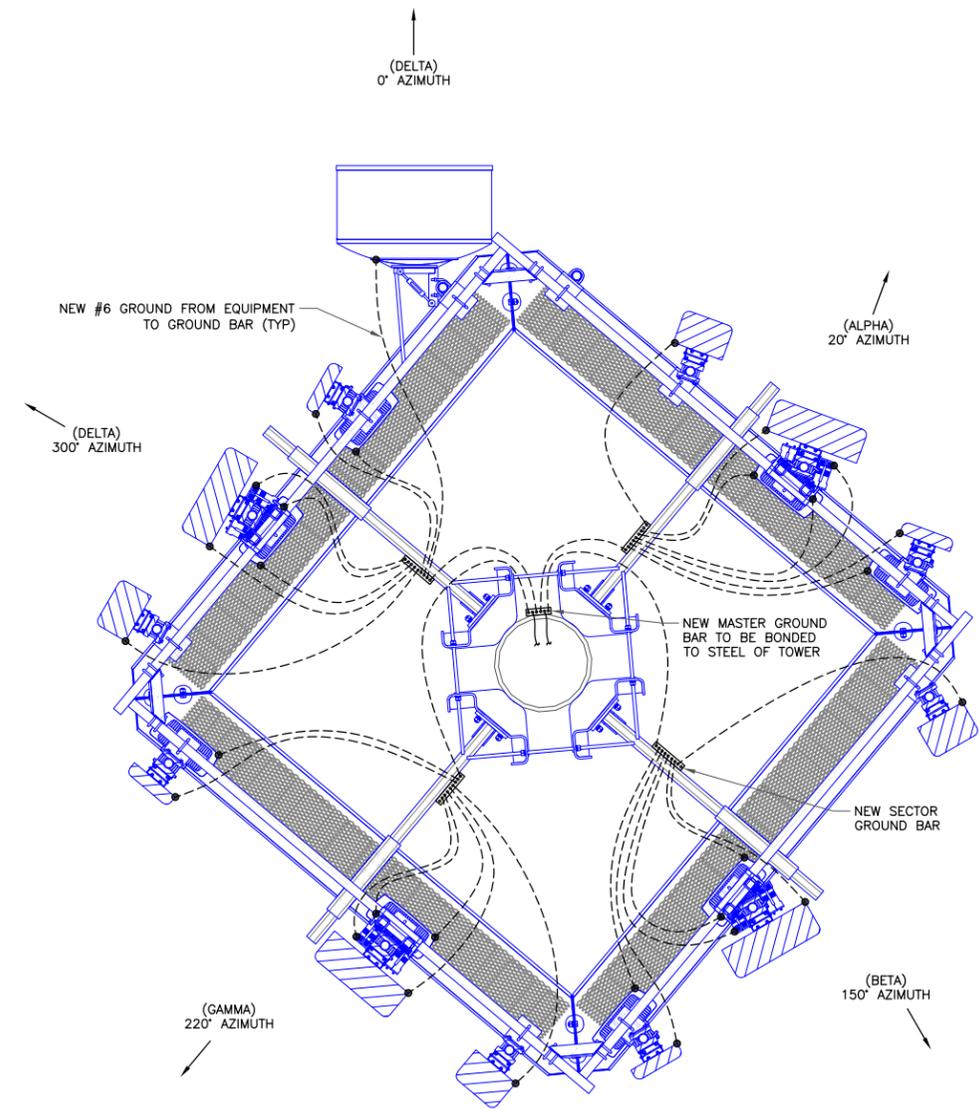
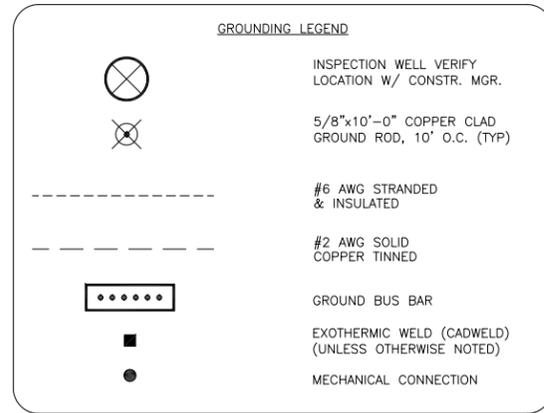
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SHEET NUMBER: **E-3** REVISION: **4**



1 EQUIPMENT GROUNDING PLAN
SCALE: NOT TO SCALE



2 ANTENNA GROUNDING PLAN
SCALE: NOT TO SCALE

T-Mobile
12920 SE 38TH STREET
BELLEVUE, WA 98006

CROWN CASTLE
3 CORPORATE PARK DRIVE, SUITE 101
CLIFTON PARK, NY 12065

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BU #: 876352
RICHARD WALL

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EAST HAMPTON, CT 06424

EXISTING 117'-6" MONOPOLE

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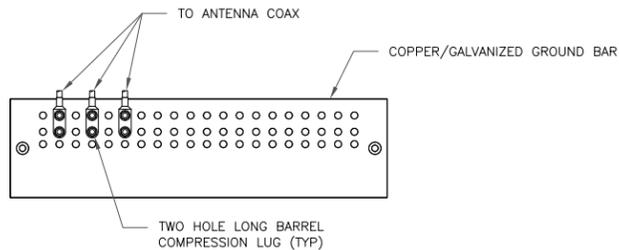
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JUSTIN LINETTE
PETER LINETTE
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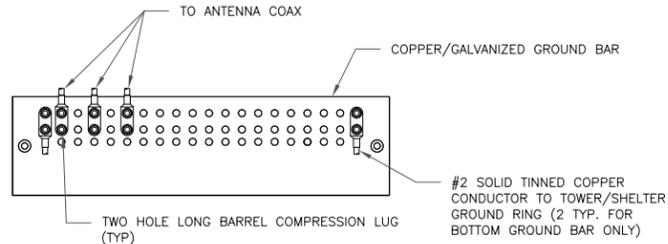
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SHEET NUMBER: **G-1** REVISION: **4**



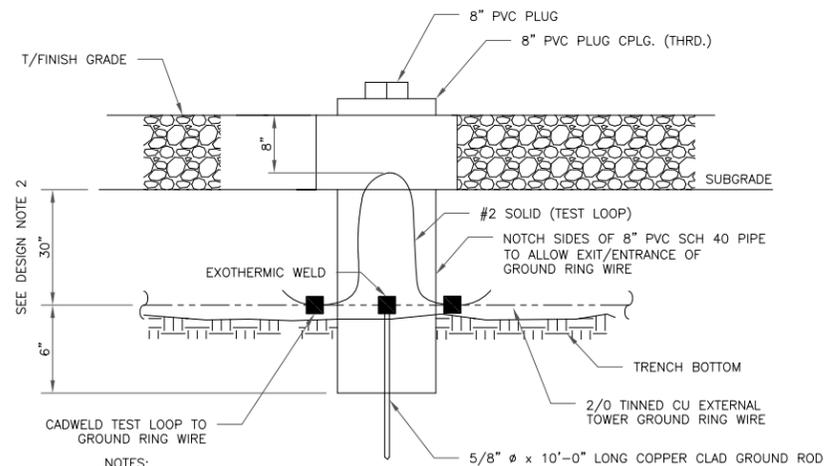
- NOTES:
1. DOUBLING UP "OR STACKING" OF CONNECTIONS IS NOT PERMITTED.
 2. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
 3. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL.

1 ANTENNA GROUND BAR DETAIL
SCALE: NOT TO SCALE



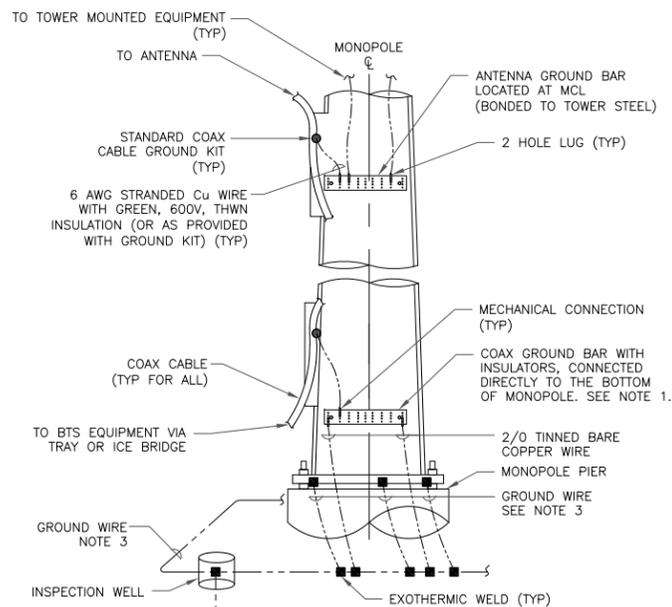
- NOTES:
1. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
 2. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL (TOWER ONLY).
 3. GROUND BAR SHALL BE ISOLATED FROM BUILDING OR SHELTER.

2 TOWER/SHELTER GROUND BAR DETAIL
SCALE: NOT TO SCALE



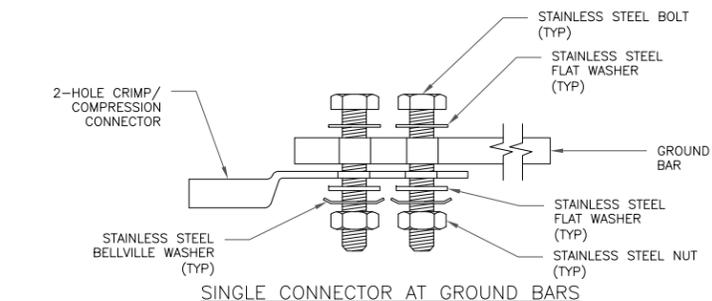
- NOTES:
1. GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE VERTICAL
 2. GROUND WIRE SHALL BE MIN. 30" BELOW GRADE OR 6" BELOW FROST LINE. (WHICH EVER IS GREATER) AS PER N.E.C. ARTICLE 250-50(D)

3 INSPECTION WELL DETAIL
SCALE: NOT TO SCALE

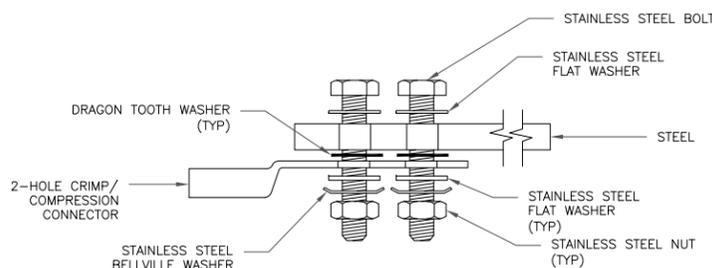


- NOTES:
1. NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATIONS AND CONNECTION ORIENTATION. COAXIAL CABLES EXCEEDING 200 FEET ON THE TOWER SHALL HAVE GROUND KITS AT THE MIDPOINT. PROVIDE AS REQUIRED.
 2. ONLY MECHANICAL CONNECTIONS ARE ALLOWED TO BE MADE TO CROWN CASTLE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

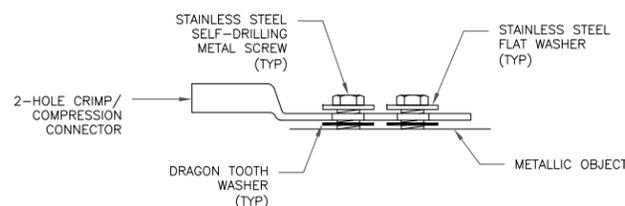
4 TYPICAL ANTENNA CABLE GROUNDING
SCALE: NOT TO SCALE



SINGLE CONNECTOR AT GROUND BARS

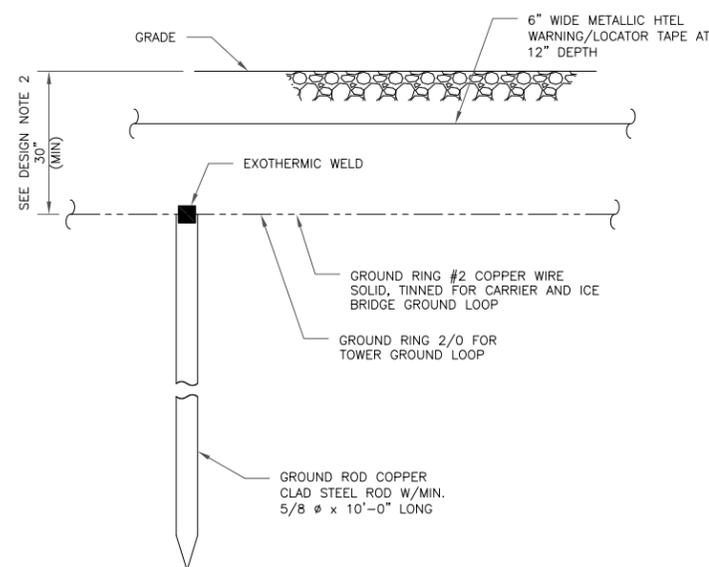


SINGLE CONNECTOR AT STEEL OBJECTS



SINGLE CONNECTOR AT METALLIC/STEEL OBJECTS

5 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE



- NOTES:
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)

6 GROUND ROD DETAIL
SCALE: NOT TO SCALE

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CROWN CASTLE

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CLIFTON PARK, NY 12065

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EXISTING 117'-6" MONOPOLE

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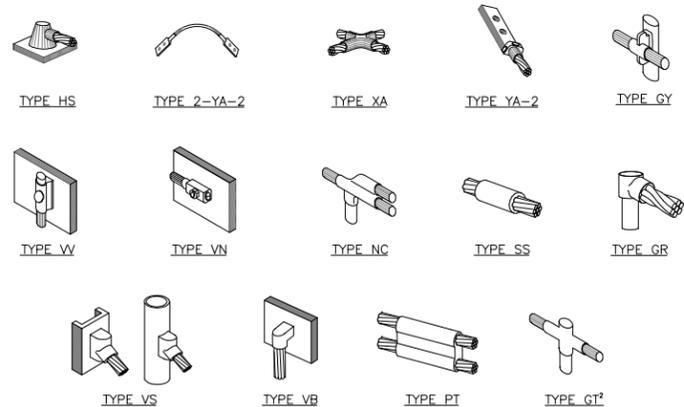
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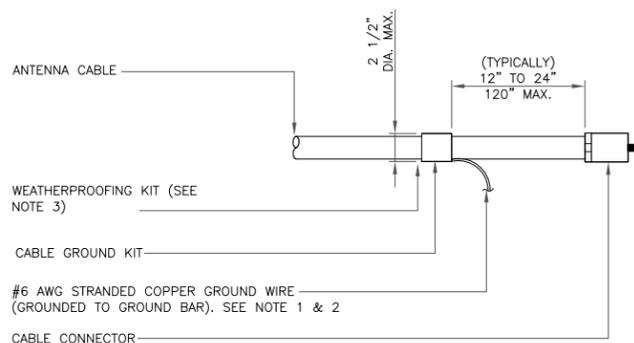
SHEET NUMBER: **G-2** REVISION: **4**



NOTE:

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

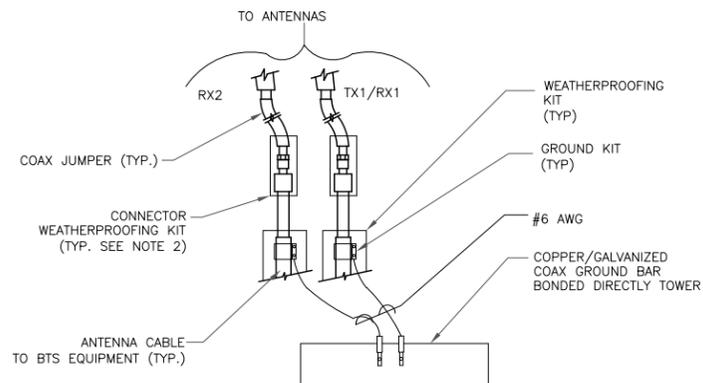
1 CADWELD GROUNDING CONNECTIONS
SCALE: NOT TO SCALE



NOTES:

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

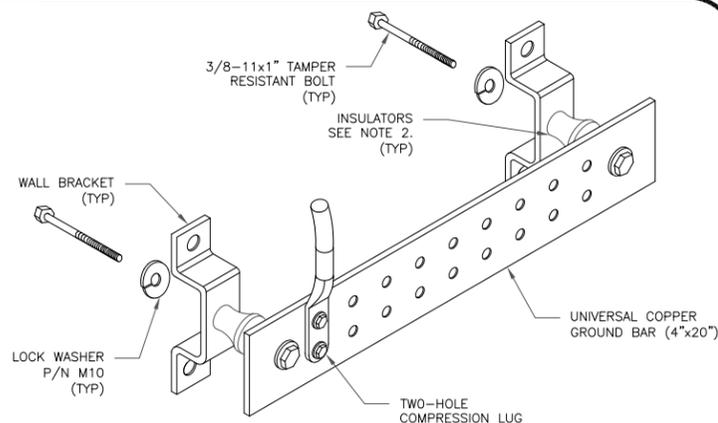
3 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



NOTES:

1. 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 USED.

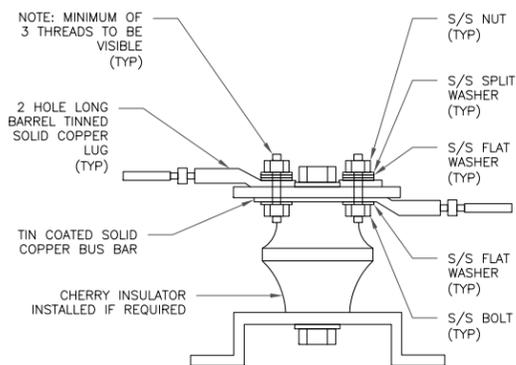
4 GROUND CABLE CONNECTION
SCALE: NOT TO SCALE



NOTES:

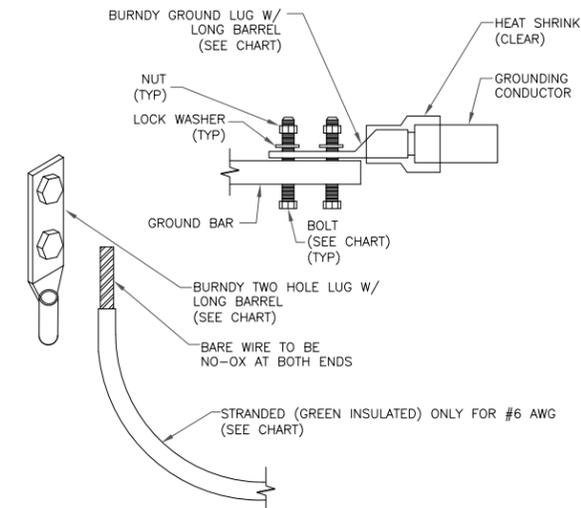
1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY QAS-STG-10091. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION, CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.
2. OMIT INSULATOR WHEN MOUNTING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

6 GROUND BAR DETAIL
SCALE: NOT TO SCALE



7 LUG DETAIL
SCALE: NOT TO SCALE

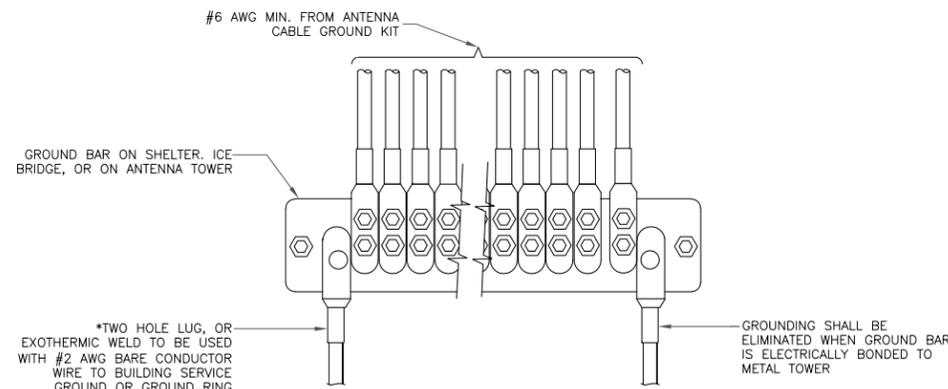
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG SOLID TINNED	YA3C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG STRANDED	YA2C-2TC38	3/8" - 16 NC S 2 BOLT
#2/0 AWG STRANDED	YA26-2TC38	3/8" - 16 NC S 2 BOLT
#4/0 AWG STRANDED	YA28-2N	1/2" - 16 NC S 2 BOLT



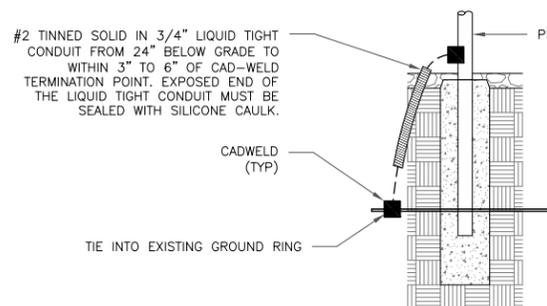
NOTES:

1. 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.

2 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE



5 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE



8 TRANSITIONING GROUND DETAIL
SCALE: NOT TO SCALE



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