

750 West Center Street, Floor 3 / Suite 301
West Bridgewater, MA 02379 Corporate Headquarters

781.713.4725

617.249.0819

Centerline Communications Ryan Clark 750 West Center Street, 3rd Flr West Bridgewater, MA 02379 203-300-7310 rclark@clinellc.com

September 23, 2022

Members of the Siting Council Connecticut Siting Council Ten Franklin Square New Britain, CT 06051

Notice of Exempt Modification 41 Beckwith Road Montville, CT 06370

Latitude: 41.8564 Longitude:--72.5181

T-Mobile Site#: CTNH032H

Dear Ms. Bachman:

T-Mobile currently maintains nine (9) antennas at the 175-foot level of the existing 180-foot monopole tower at 41 Beckwith Road Montville, CT 06370. The 180-foot tower is owned by Crown Castle and property is owned by Bond Gladys J. Trustee. T-Mobile now intends to install/add a 48KW diesel generator to the their existing leased space within the existing compound.

Planned Modifications:

Install New:

(1) 48KW diesel generator

Existing to Remain:

- (4) Fiber lines
- (6) RRU
- (3) AIR6419 B41 Antennas
- (3) APXVAARR18 Antennas
- (3) VV-65A-R1 Antennas

Existing Ground Equipment:

(4) Cabinets



↑ 750 West Center Street, Floor 3 / Suite 301 West Bridgewater, MA 02379 Corporate Headquarters

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This facility was approved by the local jurisdiction planning & zoning commission on September 6, 2000, recorded in the public records Vol. 342, Page 391. We used the information from the previous filing. Please see attached.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies § 16- SOj-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.SA. § 16-SOj-73, a copy of this letter is being sent to Ronald K. McDaniel, chief elected official, Town of Montville and Marcia A. Vlaun, Town Planner, Town of Montville, as well as the property owner and the tower owner.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S;A. § 16-50j-72(b)(2).

- 1. The proposed modifications will not result in an increase in the height of the existing structure.
- 2. The proposed modifications will not require the extension of the site boundary.
- 3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
- 4. The operation of the replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard.
- 5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
- 6. The existing structure and its foundation can support the proposed loading.

For the foregoing reasons, T-Mobile respectfully submits that the proposed modifications to the above referenced telecommunications facility constitute an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,

Ryan Clark

Mobile: 203-300-7310 Fax: 508-819-3017

Office: 750 West Center Street, Floor 3 West Bridgewater, MA 02379

Email: rclark@clinellc.com



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617.249.0819

Attachments

cc: Ronald K. McDaniel, chief elected official, Town of Montville Marcia A. Vlaun, Town Planner, Town of Montville. Crown Castle- tower owner Bond Gladys J. Trustee- property owner

Exhibit A

Original Facility Approval

C. majert May 10,30 MIN

LEGAL NOTICE

The Montville Planning and Zoning Commission at its meeting held on, May 9,7 2000, took the following action:

Sprint PCS/Bond: An application for a special permit for telecommunucations tower located on the property located at 41 Beckwith Road, Montville, Ct. Shown on Assessor's Map 12, Lot 1. GRANTED with CONDITIONS.

Maps and documentation concerning the above applications are on file in the office of the Town Planner and Town Clerk, Town Hall Annex and Town Hall, respectively, Montville, Ct.

Dated at Montville, Ct. this 10th day of May, 2000.

MONTVILLE PLANNING AND ZONING COMMISSION

Gregory Majewski, Chairman

PUBLISH IN THE NEW LONDON DAY MAY 1/1, 2000

PLEASE REFERENCE PURCHASE ORDER 6100 I 1 ON INVOICE.

Note must be 48 hours in advance-per Judy @ the Day:

D:8605098501

PAGE 2/3 TEL: 848-8549 FAX: 848-2354

VOL. 342 PAGE 391

TOWN OF MONTVILLE PLANNING & ZONING COMMISSION

310 NORWICH-NEW LONDON TPKE. UNCASVILLE, CONNECTICUT 06382-2599

CERTIFICATE OF NOTICE OF DECISION

APPROVAL: APPROVED WICONDITIONS

LOCATION/DESCRIPTION: 41 BECKWITH ROAD

NATURE OF PROJECT: TELECOMMUNICATIONS TOWER

APPLICABLE ZONING REGULATION:

REGULATION

OWNER OF RECORD:

SPRINT PCS/BOND

PLANNING DIRECTOR

CLERICAL ASSISTANT

REMARKS:

Received for Record SEP 0 6 2000

At 11 h 58 m. A. M. and recorded by

Size Simons Town Clerk

AFTER RECORDING, PLEASE RETURN TO: Thomas J. Regan, Esquire Brown Rudnick Freed & Gesmer 185 Asylum Street, 38th Floor Hartford, CT 06103-3402

arded in MONTVILLE Land Records TOWN CLERK

Exhibit B

Property Card

Property Card: 41 BECKWITH RD Town of Montville, CT

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		Pal	Parcel Information			
Location:	41 BECKWITH RD	Property Use:	Residential	Primary Use:	Residential	
Unique ID:	B0046400	Map Block Lot:	012-001-000	Acres:	226	
		Zone:	WRP	Volume / Page:	9080/9090	
		Sale Date:	06/29/2015	Sale Price:	\$0	
	Value Information	ormation		Own	Owner's Information	

Building 1

614810 236740

1176900 338200

Detached Outbuildings

Total

Buildings

Land

BOND GLADYS J TRUSTEE 41 BECKWITH RD OAKDALE, CT 06370

Owner's Data

Assessed Value

Appraised Value

560200 278500

183120 194950

Category:	Residential	Siding:	Aluminum Siding	Total Rooms:	9
Stories:	1.00	Fuel:	Oil	Beds/Units:	က
GLA:	2054	Heating:	Forced Hot Air	Baths:	2
Year Built:	1963	Fireplace:	0		
Class:	†	Cooling Percent:	None	Half Baths:	_
Use:	Single Family	Floors:	Hardwood	Basement Garage: 0	0
Construction Style:	Split Level	Roof Material:	Asphalt	Finished	700
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Property Information - Montville, CT

Page 1 of 1

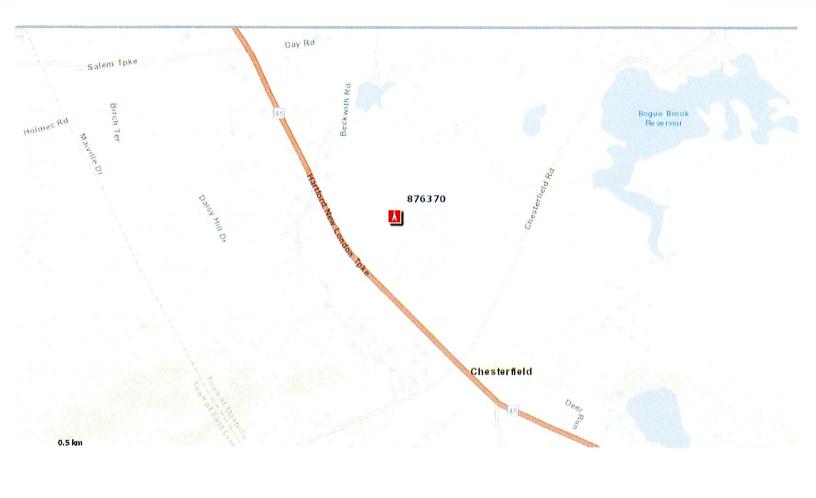


Exhibit C

Construction Drawings

PROJECT INFORMATION

TOWER OWNER: CONNECTICUT WATER COMPANY

93 WEST MAIN STREET CLINTON .CT 06413

CTNH032H

SITE NAME: CTNH032H

SITE NUMBER

SITE ADDRESS: 41 BECKWITH RD

MONTVILLE, CT 06370

LATITUDE: N 41°26'7.65" (41.8564°) (NAD83)

LONGITUDE: W 72°13'15.07" (-72.5181°) (NAD83)

ZONING JURISDICTION: TOWN OF MONTVILLE

COUNTY: NEW LONDON

DESCRIPTION OF WORK: HARDENING



ENGINEERING FIRM: CENTERLINE ENGINEERING SERVICES, PA 750 WEST CENTER ST, SUITE 301 WEST BRIDGEWATER, MA 02379 DEREK CREASER (617) 306-3034

CARRIER

T-MOBILE NORTHEAST, LLC. 35 GRIFFIN RD S BLOOMFIELD, CT 06002 PHONE: (860) 692-1700





T - Mobile NORTHEAST LLC

SITE NAME: CTNH032H

41 BECKWITH RD

MONTVILLE, CT 06370

SITE ID: CTNH032H MODIFICATION: HARDENING



GENERAL NOTES

1. THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF T-MOBILE. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSE OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.

2. THE FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY ACCESSED BY TRAINED TECHNICIANS FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE DOES NOT REQUIRE ANY WATER OR SANITARY SEWER SERVICE. THE FACILITY IS NOT GOVERNED BY REGULATIONS REQUIRING PUBLIC ACCESS PER ADA REQUIREMENTS.

3. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE T-MOBILE REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

SCOPE OF WORK

- INSTALL NEW DIESEL GENERATOR WITHIN T-MOBILE LEASE AREA
- INSTALL NEW AUTOMATIC TRANSFER SWITCH (ATS) ON PROPOSED UNISTRUT

	DRAWING INDEX			
NO.	DESCRIPTION			
T-1	TITLE SHEET			
GN-1	GENERAL NOTES			
A-1	COMPOUND & EQUIPMENT PLAN			
A-2	GENERATOR DETAIL			
A-3	ATS SPEC SHEET			
E-1	ELECTRICAL PLAN & DETAILS			
G-1	GROUNDING PLAN			

T - Mobile

T-MOBILE NORTHEAST, LLC. 35 GRIFFIN RD S BLOOMFIELD, CT 06002 PHONE: (860) 629-1700



750 W CENTER ST, SUITE 301 WEST BRIDGEWATER, MA 02379 PHONE: 781.713.4725

REVISIONS			
0	09/22/22	ISSUED FOR CONSTRUCTION	SS
Α	09/12/22	ISSUED FOR REVIEW	RL
REV	DATE	DESCRIPTION	BY
DESIGNED BY:		APPROVED BY:	٦

DESIGNED BY: RL	WRD
	ONNECTOR ASSESSMENT OF THE PROPERTY OF THE PRO
77,711111	AL ENGILLIA

DATE: 09/22/2022

IT IS A VIOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTING UNDER T DIRECTION OF A LICENSED PROFESSIONAL ENGINEER TO ALTER THIS DOCUME! UNLESS EXPLICITLY AGREED TO BY THE ENGINEER IN WRITING, THE ENGINEER DISCLAIMS ALL LIABILITY ASSOCIATED WITH THE REUSE, ALTERATION OR

ITE	NAME:	

CTNH032H

SITE ID: CTNH032H

SITE ADDRESS:

41 BECKWITH RD MONTVILLE, CT 06370 NEW LONDON COUNTY

SHEET TITLE:

TITLE SHEET

DRAWING:

T-1

GENERAL NOTES

- 1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
 - CONTRACTOR CENTERLINE COMMUNICATIONS
 SUBCONTRACTOR GENERAL CONTRACTOR (CONSTRUCTION)
 OWNER T-MOBILE MOBILITY
- 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.
- 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 REGUL ATIONS.
- 4. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED 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 CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE CONTRACTOR.
- 9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR.
- 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.
- 13. ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.
- 14. ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL BE AIR-ENTRAINED AND SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.

- 15. ALL STRUCTURAL STEEL WORK SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS. ALL STRUCTURAL STEEL SHALL BE ASTM A36 (Fy = 36 ksi). UNLESS OTHERWISE NOTED. PIPES SHALL BE ASTM A53 TYPE E (Fy = 36 ksi). ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED. TOUCHUP ALL SCRATCHES AND OTHER MARKS IN THE FIELD AFTER STEEL IS ERECTED USING A COMPATIBLE ZINC RICH PAINT.
- 16. CONSTRUCTION SHALL COMPLY WITH SPECIFICATIONS AND "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF T-MOBILE MOBILITY SITES."
- 17. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- 18. THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
- 19. SINCE THE CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL REEXPOSURE MONITORS ARE ADVISED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.
- 20. APPLICABLE BUILDING CODES:

SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN

BUILDING CODE: IBC 2015 & CONNECTICUT STATE BUILDING CODE 2018 ELECTRICAL CODE: 2017 NATIONAL ELECTRICAL CODE LIGHTNING CODE: NFPA 70-2017

SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE

AMERICAN CONCRETE INSTITUTE (ACI) 318; BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE:

AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)

MANUAL OF STEEL CONSTRUCTION, ASD, FOURTEENTH EDITION;

TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-G, STRUCTURAL STANDARDS FOR STEEL

ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES; REFER TO ELECTRICAL DRAWINGS FOR SPECIFIC ELECTRICAL STANDARDS.

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN

RF NOTES

- ACTUAL LENGTHS SHALL BE DETERMINED PER SITE CONDITION BY SUBCONTRACTOR
- 2. THE DESIGN IS BASED ON RF DATA SHEETS, SIGNED AND APPROVED.
- RADIO SIGNAL CABLE AND RACEWAY SHALL COMPLY WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC, NFPA 70), CHAPTER 8.
- ALL SPECIFIED MATERIAL FOR EACH LOCATION (E.G. OUT DOORS-OCCUPIED, INDOORS-UNOCCUPIED, PLENUMS, RISER SHAFTS, ETC.) SHALL BE APPROVED, LISTED, OR LABELED AS REQUIRED BY THE NEC.
- RADIO SIGNAL CABLE SHALL BE SUPPORTED AT MINIMUM OF EVERY THREE (3)
 FEET EXCEPT INSIDE MONOPOLES OR MONOPOLES WHERE CABLE AND
 CONNECTOR MANUFACTURERS SUPPORT RECOMMENDATIONS SHALL BE
 FOLLOWED. MANUFACTURER RECOMMENDATION CABLES SUPPORT
 ACCESSORIES SHALL BE USED.
- 5. THE OUTDOOR CABLE SUPPORT SYSTEM SHALL BE PROVIDED WITH AN ICE SHIELD TO SUPPORT AND PROTECT ANTENNA CABLE RUNS.
- 7. DRIP LOOPS SHALL BE REQUIRED ON ALL OUTSIDE CABLES. CABLES SHALL BE SLOPED AWAY FROM BUILDING OR OUTDOOR BTS CABINETS TO PREVENT WATER FROM ENTERING THROUGH THE COAXIAL CABLE PORT.
- 8. ALL FEEDER LINE AND JUMPER CONNECTORS SHALL BE 7/16 DIN CABLE CONNECTORS THAT MEET IP68 STANDARDS
- 7/16 DIN CONNECTORS REQUIRE NO ADDITIONAL WEATHER PROOFING IN INDOOR APPLICATIONS IF INSTALLED AND TORQUED PROPERLY. IN OUTDOOR APPLICATIONS WEATHER PROOFING IS REQUIRED AND THE FOLLOWING PROCEDURE SHOULD BE FOLLOWED.
- 10. USING WEATHERPROOFING KIT APPROVED BY CABLE MANUFACTURER AND CONTRACTOR START TAPE APPROXIMATELY 5 INCHES FROM THE CONNECTOR, AND WRAP 2 INCHES TOWARD THE CONNECTOR, THEN REVERSE THE TAPE SO THAT THE STICKY SIDE IS UP. TAPE OVER THE CONNECTOR OR SURGE ARRESTOR UNTIL THREE (3) TO FOUR (4) INCHES BEYOND THE CONNECTOR AND REVERSE AGAIN WITH THE STICKY SIDE DOWN FOR ANOTHER INCH OR TWO. PASS THE BUTYL RUBBER AND FINISH WITH A FINAL LAYER OF TAPE.
- 11. ANTENNAS SHALL BE PAINTED, WHEN REQUIRED, BY THE LANDLORD OR AUTHORITY OF HAVING JURISDICTION IN ACCORDANCE WITH ANTENNA MANUFACTURERS' SURFACES PREPARATION AND PAINTING REQUIREMENTS.
- 12. CABLE SHIELDS AND TOWER CONDUITS SHALL BE GROUNDED AT THE TOP OF THE TOWER WITHIN 10 FEET OF THEIR CONNECTORS, AND AT THE BOTTOM OF THE TOWER ABOUT 6 INCHES BEFORE THEY TURN TOWARD THE FACILITY. THEY SHALL BE GROUNDED AT THE MIDPOINT OF THE TOWERS THAT ARE BETWEEN 60 FEET AND 200 FEET HIGH, AND AT INTERVALS OF 60 FEET OR LESS ON TOWERS THAT ARE HIGHER THAN 200 FEET.

ANTENNA CABLE AND SCHEDULING NOTES

- SUBCONTRACTOR SHALL VERIFY THE ACTUAL LENGTH IN THE FIELD BEFORE
 INSTALLATION
- 2. TAG AND COLOR CODE ALL MAIN CABLES AT LOCATIONS PER T-MOBILE ANTENNA CABLE MARKING STANDARD:
- TOP OF TOWER FND OF MAIN COAX
- BOTTOM OF TOWER END OF MAIN COAX
- DIRECTLY BEFORE AND AFTER RF EQUIPMENT
 END OF JUMPERS AT BTS EQUIPMENT
- ANTENNAS SHALL BE PROCURED AND INSTALLED WITH DOWN TILT MOUNTING BRACKETS SUPPLIED BY ANTENNA MANUFACTURER.
- PRIOR APPROVAL IS REQUIRED BEFORE PERFORMING ANY WORK ON EXISTING CELL SITE EQUIPMENT.

T - Mobile

T-MOBILE NORTHEAST, LLC. 35 GRIFFIN RD S BLOOMFIELD, CT 06002 PHONE: (860) 629-1700



750 W CENTER ST, SUITE 301 WEST BRIDGEWATER, MA 02379 PHONE: 781.713.4725

REVISIONS			
0	09/22/22	ISSUED FOR CONSTRUCTION	SS
Α	09/12/22	ISSUED FOR REVIEW	RL
REV	DATE	DESCRIPTION	BY
DE	SIGNED BY:	APPROVED BY:	\neg

DESIGNED BY:

APPROVED BY:

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OF CONNEC

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DATE: 09/22/2022

IT IS A VIOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTING UNDE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER TO ALTER THIS DOCUL UNLESS EXPLICITLY AGREED TO BY THE REGINEER IN WRITING, THE ENGIN DISCLAMS ALL LIABILITY ASSOCIATED WITH THE REUSE, ALTERATION OF

E NAME:

CTNH032H

SITE ID:

CTNH032H

SITE ADDRESS:

41 BECKWITH RD MONTVILLE, CT 06370 NEW LONDON COUNTY

SHEET TITLE:

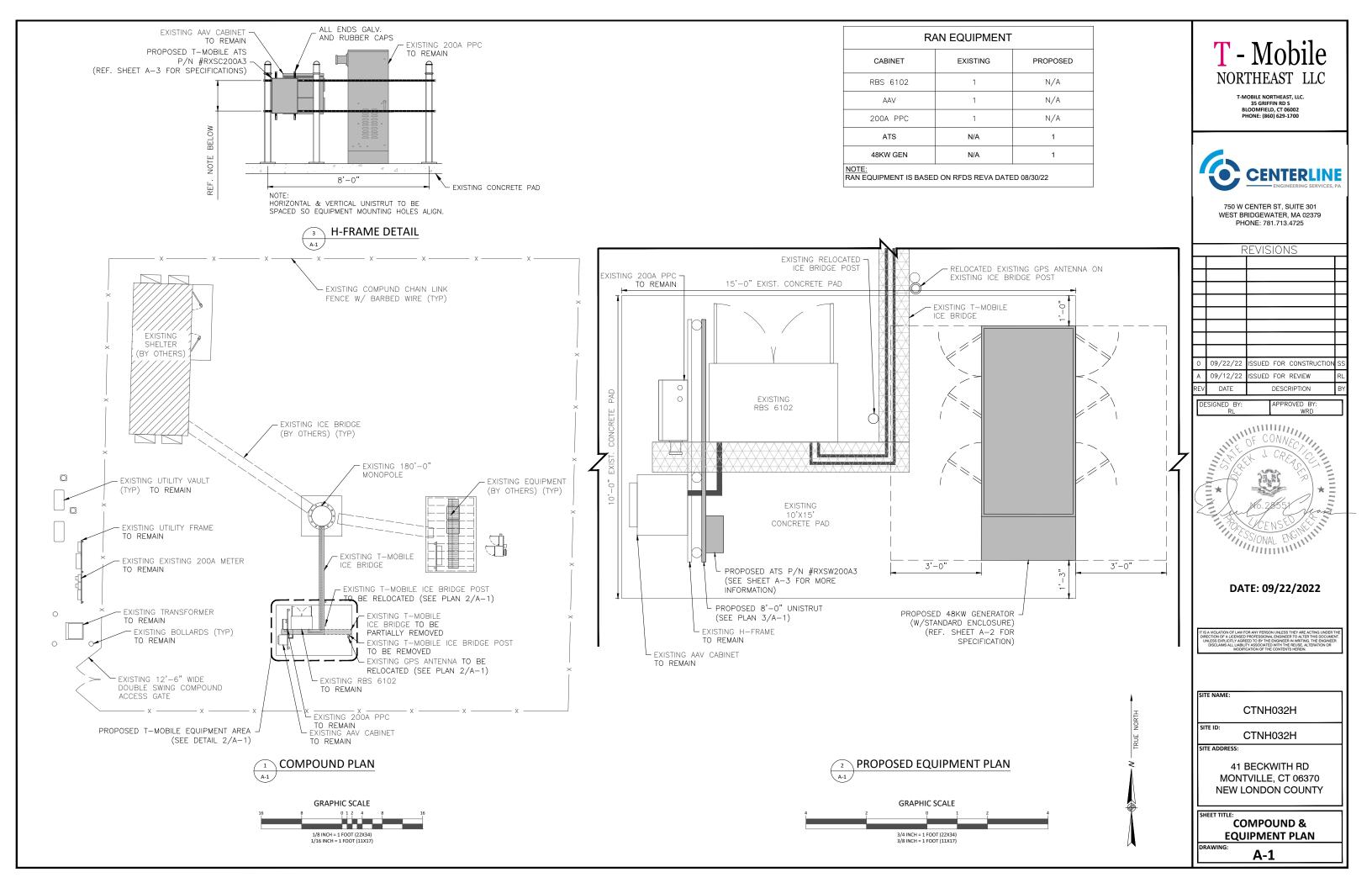
GENERAL NOTES

DRAWING:

<u>GN-1</u>

ABBREVIATIONS

ABOVE GRADE LEVEL G.C. GENERAL CONTRACTOR RADIO FREQUENCY AGL AWG AMERICAN WIRE GAUGE MGB MASTER GROUND BUS BCW BARE COPPER WIRE MIN MINIMUM TBD TO BE DETERMINED BTS BASE TRANSCEIVER STATION PROPOSED NEW TBR TO BE REMOVED **TBRR** TO BE REMOVED **EXISTING EXISTING** N.T.S NOT TO SCALE AND REPLACED FG FOLIPMENT GROUND RFF REFERENCE TYPICAL TYP EGR **EQUIPMENT GROUND RING** REQ REQUIRED



RD048 | 3.4L | 48kW



INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

ake	Generac
ylinder#	4
уре	In-Line
isplacement - i(13)	207.48 (3.4)
ore - in (mm)	3.86 (98)
troke - in (mm)	4.45 (113)
ompression Ratio	18.5:1
take Air Method	Turbocharged/Aftercooled
ylinder Head	Cast Iron OHV
ston Type	Aluminum

Lubrication System

Oil Pump Type	Gear
Oil Filter Type	Full Flow Spin-On Canister
Crankcase Capacity - L (qts)	7.0 (7.4)

Electronic

Cooling System

Cooling System Type	Pressurized Closed Recovery
Fan Type	Pusher
Fan Speed (rpm)	2,029
Fan Diameter - mm (in)	22 (559)

Fuel System

Fuel Type	Ultra Low Sulfur Diesel Fuel
Fuel Specification	ASTM
Fuel Pump Type	Mechanical Engine Driven Gear
Injector Type	Mechanical
Fuel Supply Line (mm/in)	7.94 (0.31) ID
Fuel Return Line (mm/in)	7.94 (0.31) ID
Fuel Filtering (microns)	10

Engine Electrical System

Standard Excitation

System Voltage	12 VDC
Battery Charger Alternator	Standard
Battery Size	Group 27F
Battery Voltage	12 VDC
Ground Polarity	Negative

Direct

ALTERNATOR SPECIFICATIONS

Telephone Interference Factor (TIF) <50

Frequency Regulation (Steady State)±0.25%

Standard Model	Generac
Poles	4
Field Type	Rotating
Insulation Class - Rotor	F
Insulation Class - Stator	Н
Total Harmonic Distortion	<5%

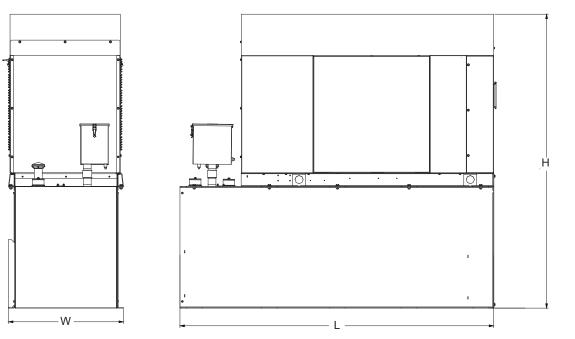
Bearings	Sealed Ball
 Coupling	Flexible Disc
 Prototype Short Circuit Test	Yes
Voltage Regulator Type	Full Digital
Population Accuracy (Steady State)	±1 0%

RD048 | 3.4L | 48kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

DIMENSIONS AND WEIGHTS*



Weights and Dimensions

Unit Weight - Ibs	Unit Weight with Skid - Ibs	Dimensions (L x W x H) - in
2,915	2,954	103.4 (2,625) x 35.0 (888) x 90.0 (2,286)

48kW Fuel Consumption	
Fuel Tank Gross Total Capacity	240
Fuel Tank Gross Usable Capacity	229
Fuel Tank Net Usable Capacity (Run Hours Based on Net Usable Capa	206 icity)
Run Hours 100% Load	52
Run Hours 75% Load	67
Run Hours 50% Load	96

Sound Emission Data

Rated Load Sound Output at 23ft - dB(A65

 * All measurements are approximate and for estimation purposes only.

YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER

Specification characteristics may change without notice. Dimensions and weights are for preliminary purposes only. Please consult a Generac Power Systems Industrial Dealer for detailed installation drawings.

Part No 1000032700

T-MOBILE NORTHEAST, LLC. 35 GRIFFIN RD S BLOOMFIELD, CT 06002 PHONE: (860) 629-1700



750 W CENTER ST, SUITE 301 WEST BRIDGEWATER, MA 02379 PHONE: 781.713.4725

	F	REVISIONS	
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חב	SIGNED BY:	APPROVED BY:	$\overline{}$

RL	WRD
* AGO	ONNECTICE **
THE STONE	NSE MERITIES

DATE: 09/22/2022

SHEET

CTNH032H

CTNH032H

41 BECKWITH RD MONTVILLE, CT 06370 NEW LONDON COUNTY

GENERATOR DETAIL

A-2

Generac Power Systems, Inc. | P.O.Box 8 | Waukesha, WI 53189 P: (262) 544-4811 ©2018Generac Power Systems, Inc. All rights reserved. All specifications are subject to change without notice.





Service and non-Service rated Automatic Smart Transfer Switches Automatic Transfer Switches

Automatic Transfer Switches

100-400 Amps, Single Phase



GENERAC

Functions

All timing and sensing functions originate in the generator controller

Į	lity voltage drop-out
٦	ner to generator start
E	gine warm up delay
5	ndby voltage sensor
l	lity voltage pickup>80%
	transfer time delay
E	gine cool-down timer
E	erdiser

The transfer switch can be operated manually without power applied.

*When used in conjunction with units utilizing Evolution™ controls **Adjustable via the controller

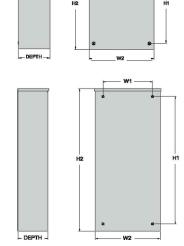
Specifications

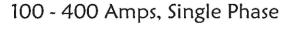
Specification

Model	RXSC100A3	RXSC200A3
Amps	100	200
Voltage	120/240, 1ø	120/240, 1ø
Load Transition Type (Automatic)	Open Transition	Open Transition
Endosure Type	NEMA/UL3R	NEMA/UL3R
UL Rating	UL/CUL	UL/CUL
Withstand Rating (Amps)	10,000	10,000
Lug Range	1/0 - #14	250 MCM -#6

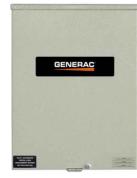
Dimensions

Model		RXSC100A3	RXSC200A3
Height	н	17.24/437.9	17.24/437.9
(in./mm)	H2	20/508	20/508
Width (in./mm)	WI	12.5/317.5	12.5/317.5
	W2	14.6/370.8	14.6/370.8
Depth (in./mm) Weight (lbs./kilos)		7.09/180.1	7.09/180.1
		20/9.07	20/9.07













*CUL only applies to non-service rated switches

Description

Generac Automatic Transfer Switches are designed for use with single phase generators that utilize an Evolution™ or Nexus™ Controller. The 100, 200, and 400 amp open transition switches are available in single phase in both service equipment rated and non-service equipment rated configurations. The 150 and 300 amp open transition switches are only available in a service rated equipment configuration.

Standard Features

Service rated (RXSW) Generac Automatic Transfer Switches are housed in an aluminum NEMA/UL Type 3R enclosure*, with electrostatically applied and baked powder paint. The Heavy Duty Generac Contactor is a UL recognized device, designed for years of service. The controller at the generator handles all the timing, sensing, exercising functions, and transfer commands. All switches are covered by a 5 year limited warranty.

*Non-service rated (RXSC) switches are housed in a steel enclosure.

DPM Technology

Through the use of digital power technology (DPM), these switches have the capability to manage up to 4 individual HVAC (24 VAC controlled) loads with no additional hardware. When used in tandem with S mart Management Modules, up to 8 more loads can be managed as well, providing the most installation efficient power management options available.





Generac Power Systems, Inc. • \$45 W29290 HWY.59, Waukesha, WI 53189 • generac.com

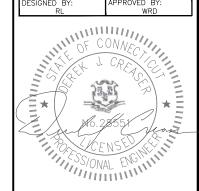
T - Mobile

T-MOBILE NORTHEAST, LLC. 35 GRIFFIN RD S BLOOMFIELD, CT 06002 PHONE: (860) 629-1700



750 W CENTER ST, SUITE 301 WEST BRIDGEWATER, MA 02379 PHONE: 781.713.4725

REVISIONS				
0	09/22/22	ISSUED FOR CONSTRUCTION	SS	
Α	09/12/22	ISSUED FOR REVIEW	RL	
REV	DATE	DESCRIPTION	BY	



DATE: 09/22/2022

IT IS A VIOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTING UNDER T DIRECTION OF A LICENSED PROFESSIONAL ENGINEER TO ALTER THIS DOCUMEN UNLESS EXPLICITLY AGREED TO BY THE ENGINEER IN WRITING, THE ENGINEER DISCLAIMS ALL LIABILITY ASSOCIATED WITH THE REUSE, ALTERATION OR

SITE NAMI

CTNH032H

SITE ID: CTNH032H

SITE ADDRESS

41 BECKWITH RD MONTVILLE, CT 06370 NEW LONDON COUNTY

SHEET TITLE:

ATS SPEC SHEET

DRAWING:

A-3

ELECTRICAL NOTES

- SUBMITTAL OF BID INDICATES THAT THE CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT
- CONTRACTOR SHALL PERFORM ALL VERIFICATIONS, OBSERVATION TESTS, AND 7 EXAMINATION WORK PRIOR TO ORDERING OF ANY FOLIPMENT AND THE ACTUAL CONSTRUCTION, CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE PROJECT MANAGER LISTING ALL MALFUNCTIONS, FAULTY EQUIPMENT AND
- THESE PLANS ARE DIAGRAMMATIC ONLY, FOLLOW AS CLOSELY AS POSSIBLE.
- CONTRACTOR SHALL COORDINATE ALL WORK BETWEEN TRADES AND ALL OTHER SCHEDULING AND PROVISIONARY CIRCUMSTANCES SURROUNDING THE
- CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION CONSTRUCTION TOOLS, TRANSPORTATION, ETC., FOR COMPLETE AND FUNCTIONALLY OPERATING SYSTEMS ENERGIZED AND READY FOR USE THROUGHOUT AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED
- ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT ELECTRICAL MATERIALS SHALL BE LISTED AND APPROVED BY UNDERWRITER'S LABORATORIES AND SHALL BEAR THE INSPECTION LABEL "J" WHERE SUBJECT TO

SUCH APPROVAL. MATERIALS SHALL MEET WITH APPROVAL OF ALL GOVERNING BODIES HAVING JURISDICTION OVER THE CONSTRUCTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH ALL CURRENT APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA AND NBFU. ALL MATERIALS AND EQUIPMENT SHALL BE WITH THE NATIONAL ELECTRICAL CODE; ARTICLES 250 & 810 AND THE UTILITY APPROVED FOR THEIR INTENDED USE AND LOCATION.

- ALL WORK SHALL COMPLY WITH ALL APPLICABLE GOVERNING STATE, COUNTY 14. CONDUIT: AND CITY CODES AND OSHA, NFPA, NEC & ASHRAE REQUIREMENTS.
- ENTIRE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF JOB ACCEPTANCE, ALL WORK, MATERIAL AND EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE CONTRACTOR.
- PROPERLY SEAL ALL PENETRATIONS. PROVIDE UL LISTED FIRE-STOPS WHERE PENETRATIONS ARE MADE THROUGH FIRE-RATED ASSEMBLIES. WATER-TIGHT USING SILICONE SEALANT
- 10. DELIVER ALL BROCHURES, OPERATING MANUALS, CATALOGS AND SHOP DRAWINGS TO THE PROJECT MANAGER AT JOB COMPLETION, PROVIDE MAINTENANCE MANUALS FOR MECHANICAL EQUIPMENT. AFFIX MAINTENANCE LABELS TO MECHANICAL EQUIPMENT.
- ALL CONDUCTORS SHALL BE COPPER. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG., UNLESS OTHERWISE NOTED. CONDUCTORS SHALL BE TYPE THHW, RATED IN ACCORDANCE WITH NEC 110-14(C).
- 12 ALL CIRCUIT BREAKERS FUSES AND FLECTRICAL FOUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THE MAXIMUM INTERRUPTING CURRENT TO WHICH

THEY MAY BE SUBJECTED.

13. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED IN ACCORDANCE COMPANY STANDARDS.

- RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH ZINC REQUIRED BY CODE TO FOLLOW A DIFFERENT SCHEME. INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS. IN CONTACT WITH THE EARTH. UNDER PUBLIC ROADWAYS. IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR, RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP
- ELECTRICAL METALLIC TUBING SHALL HAVE U.L. LABEL, FITTINGS SHALL BE GLAND RING COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR 19.
- C. LIQUID-TIGHT FLEXIBLE METAL CONDUIT SHALL BE U.L. LISTED AND SHALL BE USED AT FINAL CONNECTIONS TO MECHANICAL EQUIPMENT & RECTIFIERS AND WHERE PERMITTED BY CODE. ALL CONDUIT IN EXCESS OF SIX FEET IN LENGTH SHALL CONTAIN A FULL-SIZE GROUND CONDUCTOR.
- CONDUIT RUNS SHALL BE SURFACE MOUNTED ON CEILINGS OR WALLS UNLESS NOTED OTHERWISE. ALL CONDUIT SHALL RUN PARALLEL OR PERPENDICULAR TO WALLS, FLOOR, CEILING, OR BEAMS, VERIEV EXACT. ROUTING OF ALL EXPOSED CONDUIT WITH THE PROJECT MANAGER PRIOR TO INSTALLING

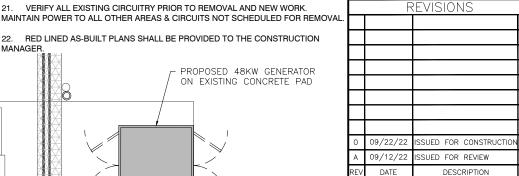
- E. PVC CONDUIT MAY BE PROVIDED ONLY WHERE SHOWN, OR IN UNDERGROUND INSTALLATIONS, PROVIDE UV-RESISTANT CONDUIT WHERE EXPOSED TO THE ATMOSPHERE, PROVIDE GROUND CONDUCTOR IN ALL PVC RUNS: EXCEPT WHERE PERMITTED BY CODE TO OMIT
- 17. ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS. BACKGROUND SHALL BE BLACK WITH WHITE LETTERS; EXCEPT AS
- UPON COMPLETION OF WORK, CONDUCT CONTINUITY, SHORT CIRCUIT, AND FALL OF POTENTIAL GROUNDING TESTS FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER, GROUNDING SYSTEM RESISTANCE SHALL NOT EXCEED 5 OHMS IF THE RESISTANCE VALUE IS EXCEEDED, NOTIFY THE PROJECT MANAGER FOR FURTHER INSTRUCTION ON METHODS FOR REDUCING THE RESISTANCE VALUE.
- CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK I A COMPLETE AND UNDAMAGED CONDITION. LEGALLY DISPOSE OF ALL REMOVED, UNUSED AND EXCESS MATERIAL GENERATED BY THE WORK OF THIS CONTRACT. DELIVER ITEMS INDICATED ON THE DRAWINGS TO THE OWNER IN GOOD CONDITION OBTAIN SIGNED RECEIPT UPON DELIVERY.
- COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOKUP COSTS SHALL BE PAID BY THE CONTRACTOR
- VERIFY ALL EXISTING CIRCUITRY PRIOR TO REMOVAL AND NEW WORK MAINTAIN POWER TO ALL OTHER AREAS & CIRCUITS NOT SCHEDULED FOR REMOVAL

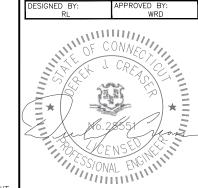
GROUND BAR

GROUND BAR DETAIL

(site pro 1 P/N MG41860-K

OR APPROVED EQUAL)





T-MOBILE NORTHEAST, LLC. 35 GRIFFIN RD S BLOOMFIELD, CT 06002 PHONE: (860) 629-1700

750 W CENTER ST, SUITE 301

WEST BRIDGEWATER MA 02379

PHONE: 781.713.4725

DATE: 09/22/2022

SITE	NA	ME

CTNH032H

SITE ID: CTNH032H

SITE ADDRESS

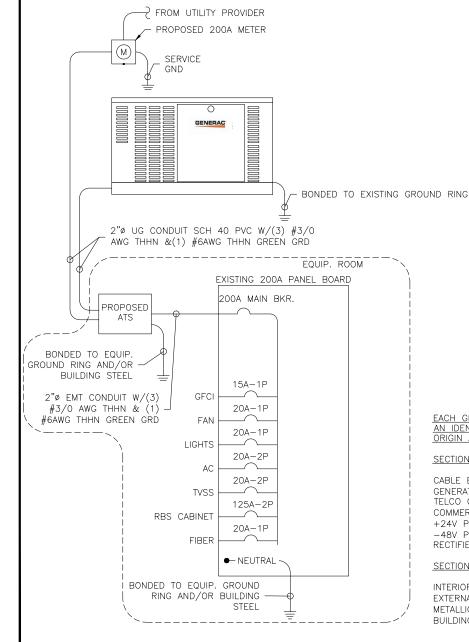
41 BECKWITH RD MONTVILLE, CT 06370 **NEW LONDON COUNTY**

SHEET TITLE:

ELECTRICAL PLAN & DETAILS

E-1

EXISTING T-MOBILE 200A PPC BREAK POWER CONDUIT TO THE PPC AND RE-ROUTE PROPOSED T-MOBILE AUTOMATIC TRANSFER SWITCH ON NEW UNISTRUT PROPOSED 2" POWER CONDUIT 9999 WITH (3)3/0 + (1)#6GPROPOSED 2" POWER CONDUIT WITH (3)3/0 + (1)#6GPROPOSED 1" ALARM CONDUIT WITH CAT5 CABLE PROPOSED 1" REMOTE START WITH RELAY CONDUIT PROPOSED 1" HEATER BLOCK AND BATTERY CHARGER CONDUIT **GRAPHIC SCALE** § ELECTRICAL PLAN E-1 1/2 INCH = 1 FOOT (22X34 1/4 INCH = 1 FOOT (11X17) TOP SOIL BACKFILL TO MEET EXISTING FINISH GRADE SEED TOPSOIL AND MULCH WITH STRAW FINISHED GRADE MOUNTING BRACKET (INCLUDED FROM MFG.) -UNDISTURBED SOIL WARNING TAPE FOR (TYP. OF (2)) CERAMIC ISOLATOR UNDERGROUND UTILITIES (INCLUDED FROM MFG.) (TYP. OF (2)) SELECT GRANIILAR - BACKFILL — COMPACTED TO 85% PVC CARRYING FI FCTRIC SERVICE 3" PVC CARRYING TELCO SERVICE



EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS

SECTION "P" - SURGE PRODUCERS

CABLE ENTRY PORTS (HATCH PLATES) (#2) GENERATOR FRAMEWORK (IF AVAILABLE) (#2) TELCO GROUND BAR COMMERCIAL POWER COMMON NEUTRAL/GROUND BOND (#2) +24V POWER SUPPLY RETURN BAR (#2) -48V POWER SUPPLY RETURN BAR (#2) RECTIFIER FRAMES.

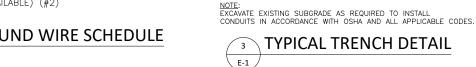
SECTION "A" - SURGE ABSORBERS

ONE LINE DIAGRAM

E-1

INTERIOR GROUND RING (#2) EXTERNAL EARTH GROUND FIELD (BURIED GROUND RING) (#2) METALLIC COLD WATER PIPE (IF AVAILABLE) (#2) BUILDING STEEL (IF AVAILABLE) (#2)

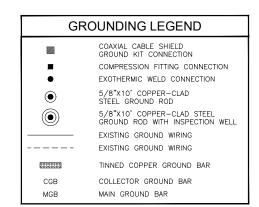


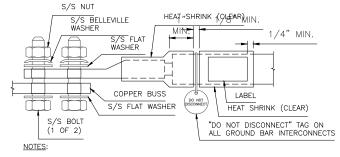


SAND BEDDING

GROUNDING NOTES:

- GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- ALL GROUNDING DEVICES SHALL BE U.L. APPROVED OR LISTED FOR THEIR INTENDED USE.
- ALL WIRES SHALL BE AWG THHN/THWN COPPER UNLESS NOTED OTHERWISE.
- GROUNDING CONNECTIONS TO GROUND RODS, GROUND RING WIRE, TOWER BASE AND FENCE POSTS SHALL BE EXOTHERMIC ("CADWELDS") UNLESS NOTED OTHERWISE. CLEAN SURFACES TO SHINY METAL. WHERE GROUND WIRES ARE CADWELDED TO GALVANIZED SURFACES. SPRAY CADWELD WITH GAI VANIZING PAINT
- GROUNDING CONNECTIONS TO GROUND BARS ARE TO BE TWO-HOLE BRASS MECHANICAL CONNECTORS WITH STAINLESS STEEL HARDWARE (INCLUDING SCREW SET) CLEAN GROUND BAR TO SHINY METAL. AFTER MECHANICAL CONNECTION, TREAT WITH PROTECTIVE ANTIOXIDANT COATING.
- GROUND COAXIAL CABLE SHIELDS AT BOTH ENDS WITH MANUFACTURER'S GROUNDING KITS
- ROUTE GROUNDING CONDUCTORS THE SHORTEST AND STRAIGHTEST PATH POSSIBLE. BEND GROUNDING LEADS WITH A MINIMUM 12" RADIUS.
- INSTALL #2 AWG GREEN-INSULATED STRANDED WIRE FOR ABOVE GRADE GROUNDING AND #2 TINNED SOLID COPPER WIRE FOR BELOW GRADE GROUNDING UNI ESS OTHERWISE NOTED





- ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING BELLEVILLES COAT ALL SURFACES WITH ANTI-OXIDATION COMPOUND BEFORE MATING.
- FOR GROUND BOND TO STEEL ONLY: INSERT A DRAGON TOOTH WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH ANTI-OXIDATION
- 3. COAT ALL BARRELS WITH ANTI-OXIDATION COMPOUND BEFORE CRIMPING.



- REFER TO GROUNDING PLAN FOR GROUND BAR LOCATIONS. GROUNDING CONNECTIONS SHALL BE EXOTHERMIC TYPE ("CADWELDS") TO ANTENNA MOUNTS AND GROUND RING. REMAINING GROUNDING CONNECTIONS SHALL BE COMPRESSION FITTINGS. CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO-HOLE LUGS.
- 10. THE GROUND ELECTRODE SYSTEM SHALL CONSIST OF DRIVEN GROUND RODS POSITION ACCORDING TO GROUNDING PLAN. THE GROUND RODS SHALL BE 5/8"X10'-0" COPPER CLAD STEEL INTERCONNECTED WITH #2 TINNED SOLID COPPER WIRE BURIED 36" BELOW GRADE. BURY GROUND RODS A MAXIMUM OF 15' APART, AND A MINIMUM OF 8' APART.
- 11. IF ROCK IS ENCOUNTERED GROUND RODS SHALL BE PLACED AT AN OBLIQUE ANGLE NOT TO EXCEED 45°.
- 13. CONSTRUCTION OF GROUND RING AND CONNECTIONS TO EXISTING GROUND RING SYSTEM SHALL BE DOCUMENTED WITH PHOTOGRAPHS PRIOR TO BACKFILLING SITE, PROVIDE PHOTOS TO THE CONSTRUCTION MANAGER
- 14 ALL GROUND LEADS EXCEPT THOSE TO THE FOUIPMENT ARE TO BE #2 TINNED SOLID COPPER WIRE. ALL EXTERIOR GROUND BARS TINNED COPPER
- 15. PRIOR TO INSTALLING LUGS ON GROUND WIRES, APPLY THOMAS & BETTS KOPR-SHIELD (TM OF JET LUBE INC.). PRIOR TO BOLTING GROUND WIRE LUGS TO GROUND BARS, APPLY KOPR-SHIELD OR EQUAL.
- 16. ENGAGE AN INDEPENDENT ELECTRICAL TESTING FIRM TO TEST AND VERIFY THAT IMPEDANCE DOES NOT EXCEED FIVE OHMS TO GROUND BY MEANS OF "FALL OF POTENTIAL TEST". TEST SHALL BE WITNESSED BY A T-MOBILE REPRESENTATIVE, AND RECORDED ON THE "GROUND RESISTANCE TEST"
- WHERE BARE COPPER GROUND WIRES ARE ROUTED FROM ANY CONNECTION ABOVE GRADE TO GROUND RING, INSTALL WIRE IN 3/4" PVC SLEEVE, FROM 1' BELOW GRADE AND SEAL TOP WITH SILICONE MATERIAL
- 18. PREPARE ALL BONDING SURFACES FOR GROUNDING CONNECTIONS BY REMOVING ALL PAINT AND CORROSION DOWN TO SHINY METAL. FOLLOWING CONNECTION, APPLY APPROPRIATE ANTI-OXIDIZATION PAINT.
- 19. ANY SITE WHERE THE EQUIPMENT (BTS, CABLE BRIDGE, PPC, GENERATOR, ETC.) IS LOCATED WITHIN 6 FEET OF METAL FENCING, THE GROUND RING SHALL BE BONDED TO THE NEAREST FENCE POST USING (3) RUNS OF #2 BARE TINNED COPPER WIRE.

1 INCH = 1 FOOT (22X34)



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DATE: 09/22/2022

CTNH032H

SITE ID: CTNH032H

SITE ADDRESS

41 BECKWITH RD MONTVILLE, CT 06370 **NEW LONDON COUNTY**

GROUNDING PLAN

G-1

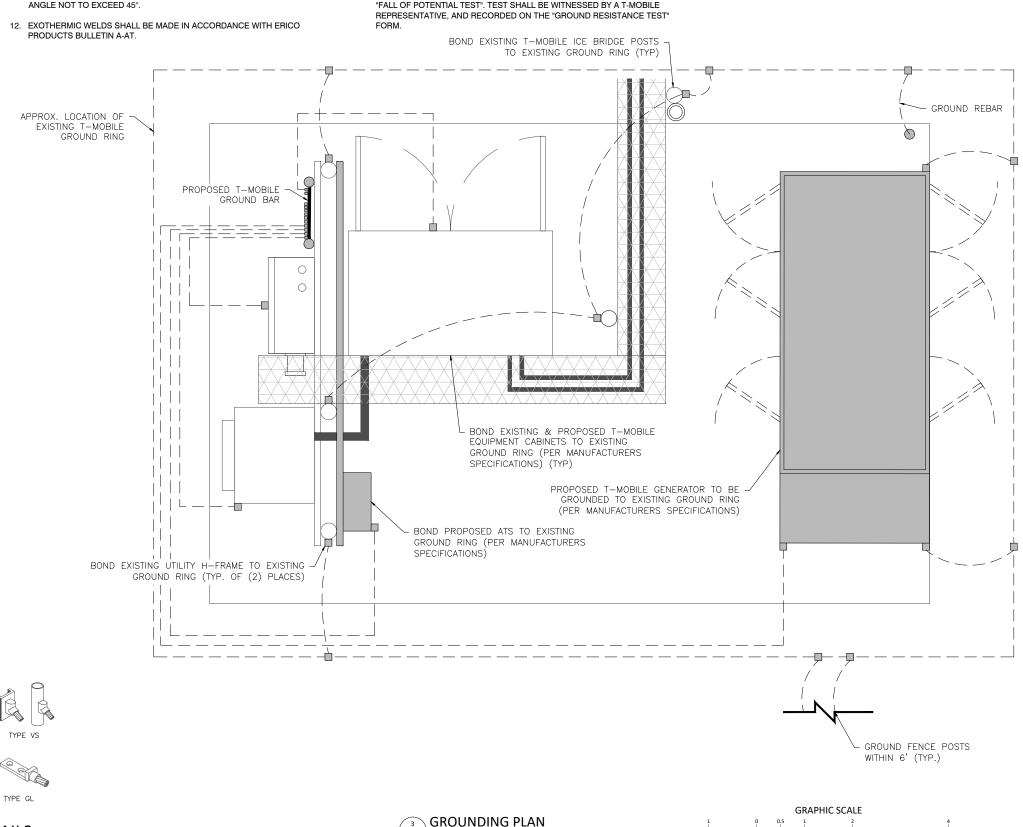


Exhibit D

Mailing Receipts/Proof of Notice

- 1. Ensure there are no other shipping or tracking labels attached to your package. Select the Print button on the print dialog box that appears. Note: If your browser does not support this function select Print from the File menu to print the label.
- 2. **Fold the printed label at the solid line below.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.

3. GETTING YOUR SHIPMENT TO UPS

Customers with a Daily Pickup

Your driver will pickup your shipment(s) as usual.

Customers without a Daily Pickup

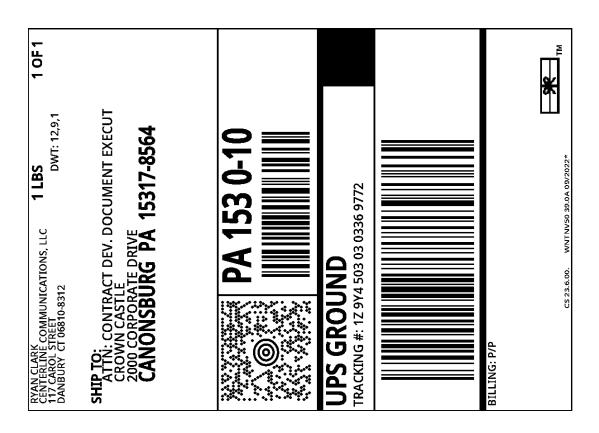
Take your package to any location of The UPS Store®, UPS Access Point(TM) location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. Items sent via UPS Return Services(SM) (including via Ground) are also accepted at Drop Boxes. To find the location nearest you, please visit the Resources area of CampusShip and select UPS Locations.

Schedule a same day or future day Pickup to have a UPS driver pickup all your CampusShip packages. Hand the package to any UPS driver in your area.

UPS Access PointTM
CVS STORE # 629
146 SOUTH ST
DANBURY ,CT 06810

UPS Access PointTM TIENDA ECUADOR 72 LAKE AVE DANBURY ,CT 06810

UPS Access PointTM
THE UPS STORE
42 LAKE AVENUE EXT
DANBURY ,CT 06811



- 1. Ensure there are no other shipping or tracking labels attached to your package. Select the Print button on the print dialog box that appears. Note: If your browser does not support this function select Print from the File menu to print the label.
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3. GETTING YOUR SHIPMENT TO UPS

Customers with a Daily Pickup

Your driver will pickup your shipment(s) as usual.

Customers without a Daily Pickup

Take your package to any location of The UPS Store®, UPS Access Point(TM) location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. Items sent via UPS Return Services(SM) (including via Ground) are also accepted at Drop Boxes. To find the location nearest you, please visit the Resources area of CampusShip and select UPS Locations.

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CVS STORE # 629
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DANBURY ,CT 06810

UPS Access PointTM TIENDA ECUADOR 72 LAKE AVE DANBURY ,CT 06810 UPS Access PointTM
THE UPS STORE
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UPS Access PointTM
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DANBURY ,CT 06810

UPS Access PointTM TIENDA ECUADOR 72 LAKE AVE DANBURY ,CT 06810

UPS Access PointTM
THE UPS STORE
42 LAKE AVENUE EXT
DANBURY ,CT 06811



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1 of 1

Service Alert due to Situation in Ukraine ...More (/us/en/service-alerts.page?id=alert1)



Last Updated: 09/26/2022 11:37 A.M. EST

Back to	09/26/2022 10:58 A.M.	On the Way Drop-Off Brookfield, CT, United States	
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⊘ Label Created

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Close			

1 of 1

Service Alert due to Situation in Ukraine ...More (/us/en/service-alerts.page?id=alert1)



Last Updated: 09/26/2022 11:39 A.M. EST

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Label Created

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Delivery

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