



Northeast Site Solutions
Victoria Masse
420 Main Street #2, Sturbridge, MA 01566
860-306-2326
victoria@northeastsitesolutions.com

September 2, 2021

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

RE: Notice of Exempt Modification
160 Sound Beach Ave (aka Arcadia Road), Greenwich CT 06870
Latitude: 41.03302600
Longitude: -73.56729100
T-Mobile Site#: CT11001B_NHP

Dear Ms. Bachman:

T-Mobile currently maintains nine (9) antennas at the 105-foot mount on the existing 95-foot Utility Lattice Tower, located at 160 Sound Beach Ave (aka Arcadia Road), Greenwich CT. The tower is owned by owned by CL&P and the property is owned by Connecticut Department of Transportation. T-Mobile now intends to add a 25Kw generator to an expanded 7' X 18' concrete pad within existing compound.

Planned Modifications:

Ground work only-Install New:

- (1) GENERAC RD 25 KW AC DIESEL GENERATOR – 240-gallon double walled self-contained tank with fuel sensor. Requires two (2) 12-minute run cycles by-weekly.
- (1) 7'x 18" Concrete pad
- (1) 3106 Cabinet (Remove)
- (1) S12000 Cabinet (Remove)



This facility was approved by the CT Siting Council. Per the attached Petition No. 526 – Dated October 3, 2001. T-Mobile (formerly Voicestream) received approval to install on the existing transmission tower, with a total height of 112.5”. Please see attached.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to the Honorable Fred Camillo, First Selectman of Greenwich, Katie DeLuca, AICP, Planning and Zoning Director and Eversource (CL&P) is the tower owner and property owner.

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,

Victoria Masse
Mobile: 860-306-2326
Fax: 413-521-0558
Office: 420 Main Street, Unit 2, Sturbridge MA 01566
Email: victoria@northeastssitesolutions.com



NSS

NORTHEAST
SITE SOLUTIONS

Turnkey Wireless Development

Attachments cc:

The Honorable Fred Camillo, First Selectman
101 Field Point Road
First Floor
Greenwich, CT 06830

Katie DeLuca, AICP, Planning and Zoning Director
101 Field Point Road
2nd Floor
Greenwich, CT 06830

John A. Vitale- as property owner
Transportation Rail Officer II
Connecticut Department of Transportation
Bureau of Public Transportation
Office of Rails-Property Management Unit
4 Brewery Street, 4th Floor
New Haven, Connecticut 06511

Eversource (CL&P)- as tower owner
107 Selden Street
Berlin, CT 06037

Exhibit A

Petition No. 526
VoiceStream Wireless
Greenwich, Connecticut
Staff Report
October 3, 2001

On October 1, 2001, Connecticut Siting Council (Council) member Edward S. Wilensky with Fred Cunliffe of Council staff met Voicestream Wireless (Voicestream) representatives Stephen Humes, Esq., Kurt Sheathelm, Haider Syed, and David Wicanpole for inspection of a Connecticut Light & Power Company (CL&P) electric transmission line structure (no. 1256) located at the Old Greenwich Metro North Railroad Station off Sound Beach Avenue, Greenwich. VoiceStream, with the agreement of CL&P, proposes to modify the structure by installing antennas and associated equipment for telecommunications use and is petitioning the Council for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need (Certificate) is required for the modification.

VoiceStream proposes to install 12 antennas on a platform attached to an 18-inch by 18-inch lattice extension to the top of the existing 95-foot high transmission structure. The extension with antennas would rise 17.5 feet above the existing structure (112.5 feet above ground level). Also, a microwave dish antenna would be mounted four feet below the 12-antenna array for telephone switching from an adjacent site. Voicestream has agreed to move its antennas five feet lower or 12.5 feet above the existing structure (107.5 feet above ground level). This adjustment complies with CL&P's design requiring a minimum of six feet above the shield wire.

An alternative structure located east of the proposed site contains dense vegetation that would require clearing and is adjacent to railroad tracks, which would create difficult construction access. An alternative structure located to the west is being used by AT&T, approved by the Council in Petition No. 467, and is not structurally sound for sharing. Use of flush-mounted antennas on a pipe extension at the proposed site would not provide sufficient capacity for demand in the area.

Equipment cabinets will be mounted on a 16.5-foot x 5-foot concrete slab within a 10.6-foot x 24-foot fenced compound at the base of the tower. An underground conduit from an adjacent utility pole will provide power to the site. This fence would be architecturally treated with plastic slats in the chain-link fence. In addition, no vegetation would be cleared at this site.

Voicestream would access the site via the parking lot at the Old Greenwich Metro North Railroad Station. Voice stream has an agreement with the Connecticut Department of Transportation for the lease area at the base of the structure and access.

The zoning designation of this site is R-12 (residential); however, a Local Retail Business zone is located south beyond the parking lot. In addition to the railroad tracks and the high-voltage transmission right-of-way, other land uses across the railroad tracks are a General Business zone with an Industrial Re-Use overlay containing multi-family residential units.

The worst-case power density for the telecommunications operations at the site has been calculated to be 5.7% of the applicable standard for uncontrolled environments.

VoiceStream contends that the proposed modification of the structure would not require a Certificate because the increase in height of this monopole structure will not result in a substantial environmental effect nor will there be damage to existing scenic, historical or recreational values, and the proposed project will prevent the construction of a new tower in the area.

Exhibit B

ADMINISTRATIVE INFORMATION

OWNERSHIP

Tax ID 440/039

Printed 01/12/2021 Card No. 1 of 1

PARCEL NUMBER 06-4687/S
Parent Parcel Number

TOWN OF GREENWICH C/O FINANCE DEPT
101 FIELD POINT RD
GREENWICH, CT 06830
LOT NO 11A 8A ARCADIA RD N5

TRANSFER OF OWNERSHIP

Table with columns: Date, Value. Row: 12/09/1954 NA \$0

Property Address ARCADIA ROAD 0000
Neighborhood 111060 DISTRICT 6 S OLD GREENWICH [1]
Property Class 299 Exempt Commercial

EXEMPT

TAXING DISTRICT INFORMATION

Jurisdiction 57 Greenwich, CT
Area 001
Corporation 057
District 06
Section & Plat 392
Routing Number 0220N0005

VALUATION RECORD

Table with columns: Assessment Year, Reason for Change, VALUATION, Market, 2015 Prelim, 2015 Final, 2016 List, 2017 List, 2018 List, 2019 List, 2020 List

Site Description

Topography:
Public Utilities: Sewer, Electric
Street or Road:

LAND DATA AND CALCULATIONS

Table with columns: Rating, Measured, Table, Prod. Factor, Soil ID, Acreage, Depth Factor, Neighborhood, Land Type, Actual Frontage, Effective Frontage, Effective Depth, Base Rate, Adjusted Rate, Extended Value, Influence Factor, Value

CKMP: 3484, 8701, 8702, 8725 & 8726
DBA: Railroad parking w/ access off Sound Beach Ave.
P: 213 spcs

Supplemental Cards

TRUE TAX VALUE 4654300

Permit Number FilingDate Est. Cost Field Visit
Type Est. SqFt

Supplemental Cards
TOTAL LAND VALUE

4654300

PHYSICAL CHARACTERISTICS

IMPROVEMENT DATA

Item Description Units Cost Total Pct

01

(LCM: 150.00)

SPECIAL FEATURES

SUMMARY OF IMPROVEMENTS

Description	Value	ID	Use	Stry Hgt	Const Type	Grade	Year Const	Eff Year	Cond	Base Rate	Feat-ures	Adj Rate	Size or Area	Computed Value	Phys Depr	Obsol Depr	Market Adj	% Comp	Value
		01	PAVING	0.00	85	Good	1990	2000	VG	2.90	N	6.53	69500	453840	0	0	100	100	453800

Data Collector/Date

Appraiser/Date

Neighborhood

Supplemental Cards

JB 09/07/1999

TOG 10/01/2015

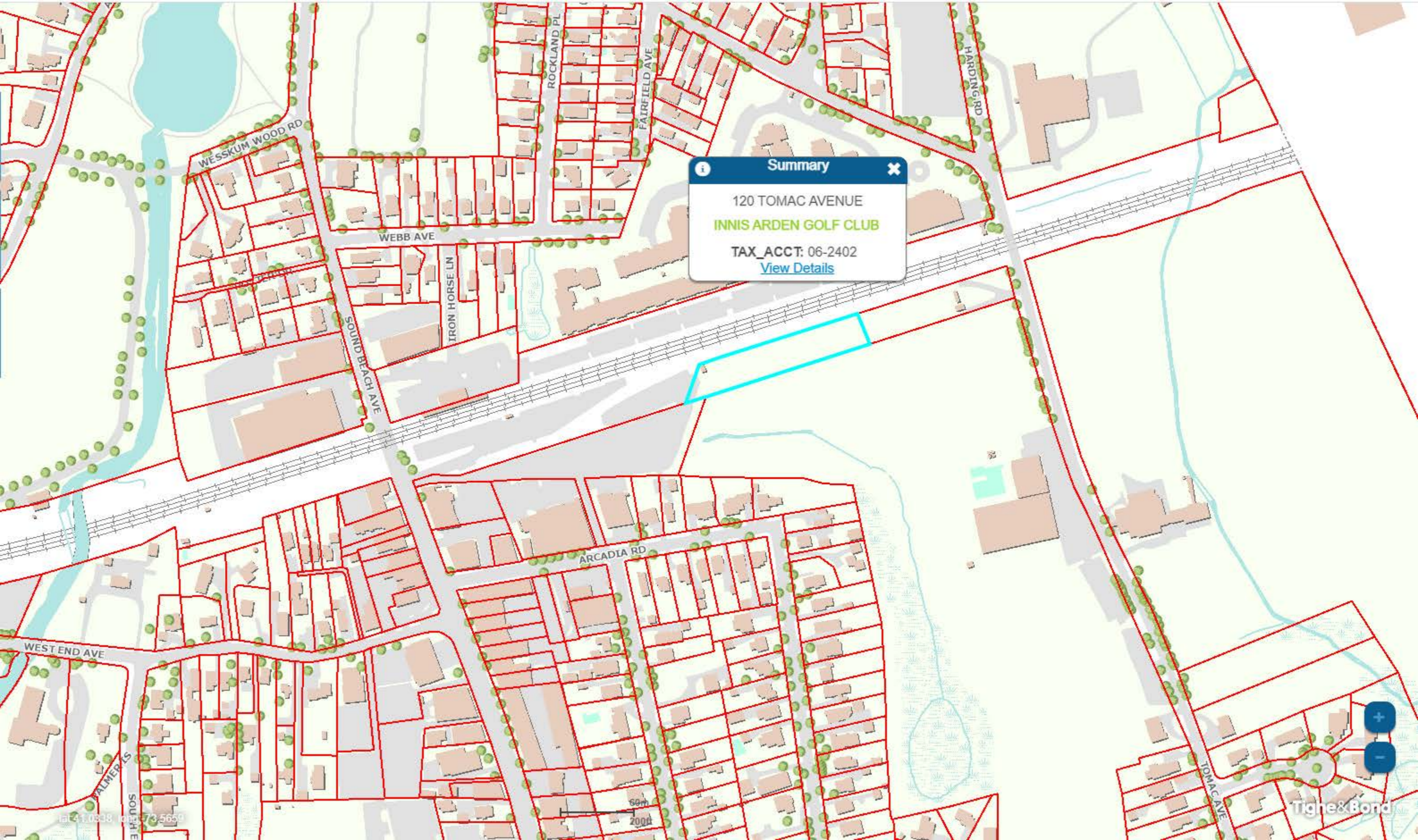
Neigh 111060 AV

TOTAL IMPROVEMENT VALUE

453800

Summary ✕

120 TOMAC AVENUE
INNIS ARDEN GOLF CLUB
TAX_ACCT: 06-2402
[View Details](#)





Victoria Masse <victoria@northeastsitesolutions.com>

T-Mobile Request for Property Record Card for 160 Sound Beach Ave, Greenwich CT

6 messages

Victoria Masse <victoria@northeastsitesolutions.com>

Wed, Aug 11, 2021 at 5:42 PM

To: prc@greenwichct.org

Cc: Denise Sabo <denise@northeastsitesolutions.com>, Deborah Chase <deborah@northeastsitesolutions.com>

Good Evening,

T-Mobile is looking to file an Exempt Modification with the Connecticut Siting Council for an antenna upgrade for an existing lattice tower located at 160 Sound Beach Ave, Greenwich CT. The Council requires that we provide a property card in our filing.

Can you please provide us with a copy of the property card for this address?

Address- 160 Sound Beach Ave, Greenwich CT
The Parcel ID is- 126833

Thank you

--

Victoria Masse

Zoning & Permitting Specialist

Notary Public

Mobile: 860-306-2326

Office: 420 Main Street Unit 1 Box 2 Sturbridge, MA 01566

Email: victoria@northeastsitesolutions.com

PRC <prc@greenwichct.org>

Thu, Aug 12, 2021 at 8:12 AM

To: Victoria Masse <victoria@northeastsitesolutions.com>

Cc: Denise Sabo <denise@northeastsitesolutions.com>, Deborah Chase <deborah@northeastsitesolutions.com>

Hi,

We do not have a [160 Sound Beach Avenue](#) in our system, I also could not locate the property on google, the parcel id you provided is also not any parcel id in our system. Would you have a property owner name or a map that illustrates where the tower is?

From: Victoria Masse <victoria@northeastsitesolutions.com>**Sent:** Wednesday, August 11, 2021 5:42 PM**To:** PRC <prc@greenwichct.org>

Cc: Denise Sabo <denise@northeastsitesolutions.com>; Deborah Chase <deborah@northeastsitesolutions.com>

Subject: T-Mobile Request for Property Record Card for [160 Sound Beach Ave, Greenwich CT](#)

[EXTERNAL]

[Quoted text hidden]

CAUTION: This email originated from outside the Town email system. Do not click links or open attachments unless you have verified the sender and know the content is safe.

Victoria Masse <victoria@northeastsitesolutions.com>

Thu, Aug 12, 2021 at 8:53 AM

To: PRC <prc@greenwichct.org>

Cc: Denise Sabo <denise@northeastsitesolutions.com>, Deborah Chase <deborah@northeastsitesolutions.com>

Good Morning,

I'm sorry the property itself is owned by Connecticut Department of Transportation Bureau of Public Transportation, I have attached to this email the parcel map that we have.

John A. Vitale

Transportation Rail Officer II

Connecticut Department of Transportation

Bureau of Public Transportation

Office of Rails-Property Management Unit

4 Brewery Street, 4th Floor

New Haven, Connecticut 06511

From google maps when I search by 160 Sound Beach Ave it takes me to this road and when I drop down for a closer look it looks like it shows it as 177 Sound Beach Ave-



I also tried to search the tax records to see if I could find a parcel ID when submitting my request and this is what I found for the 160 Sound Beach address-


BILL #	NAME/ADDRESS	PROPERTY/VEHICLE
2010-02-0003734 126833	T-MOBILE NORTHEAST LLC D/B/A T-MOBILE	160 SOUND BEACH AVENUE
(PERSONAL PROPERTY)		

Thank you!

[Quoted text hidden]

2 attachments

 **CT11001B-Parcel Map.pdf**
382K

 **2021-0805_21051.03 CT11001B - Rev1 CDs (S&S).pdf**
7651K

PRC <prc@greenwichct.org>

Thu, Aug 12, 2021 at 9:45 AM

To: Victoria Masse <victoria@northeastsitesolutions.com>

Cc: Denise Sabo <denise@northeastsitesolutions.com>, Deborah Chase <deborah@northeastsitesolutions.com>

If it is owned by the Connecticut Department of Transportation Bureau of Public Transportation then we would not have any parcel id or tax card for it. But if it fell within the boundaries depicted in the attached map, within the blue lines, then it would be [120 Tomac Avenue](#)(for our purposes) and I have attached their Field card. There simply isn't any kind of property card if it is located within the railroad row.

From: Victoria Masse <victoria@northeastsitesolutions.com>

Sent: Thursday, August 12, 2021 8:53 AM

To: PRC <prc@greenwichct.org>

Cc: Denise Sabo <denise@northeastsitesolutions.com>; Deborah Chase <deborah@northeastsitesolutions.com>


Subject: Re: T-Mobile Request for Property Record Card for [160 Sound Beach Ave, Greenwich CT](#)

[Quoted text hidden]

2 attachments



bgnsnth.PNG
364K

 **06-2402.pdf**
32K

PRC <prc@greenwichct.org>

Thu, Aug 12, 2021 at 10:28 AM

To: Victoria Masse <victoria@northeastsitesolutions.com>

Cc: Denise Sabo <denise@northeastsitesolutions.com>, Deborah Chase <deborah@northeastsitesolutions.com>

Hi,

I have been able to confirm that the correct property card is 0 Arcadia Road Parcel ID(06-4687) and I have attached it to this email.

Have a nice day!

From: Victoria Masse <victoria@northeastsitesolutions.com>


Sent: Thursday, August 12, 2021 8:53 AM

To: PRC <prc@greenwichct.org>

Cc: Denise Sabo <denise@northeastsitesolutions.com>; Deborah Chase <deborah@northeastsitesolutions.com>

Subject: Re: T-Mobile Request for Property Record Card for [160 Sound Beach Ave, Greenwich CT](#)

[Quoted text hidden]

 **06-4687_S.pdf**
36K

Victoria Masse <victoria@northeastsitesolutions.com>

Thu, Aug 12, 2021 at 10:29 AM

To: PRC <prc@greenwichct.org>

Cc: Denise Sabo <denise@northeastsitesolutions.com>, Deborah Chase <deborah@northeastsitesolutions.com>

Thank you so much for all your help!

[Quoted text hidden]

Exhibit C

MODIFICATION TO EXISTING WIRELESS FACILITY BY

T-Mobile
T-MOBILE NORTHEAST LLC
NATIONAL HARDENING PROJECT

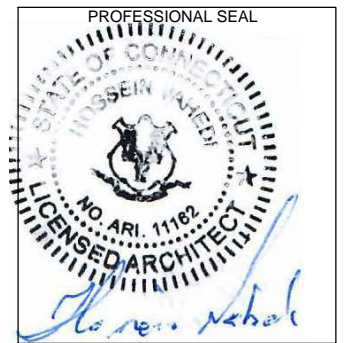
CL&P STRUCTURE #1256
SITE NUMBER: CT11001B
SITE NAME: CT11001B-GREENWICH RIVERSIDE
SITE ADDRESS: 160 SOUND BEACH AVENUE
GREENWICH, CT 06870

APPLICANT:
T-Mobile
T-MOBILE NORTHEAST LLC
 35 GRIFFIN ROAD SOUTH
 BLOOMFIELD, CT 06002
 860-692-7100

PROJECT MANAGER

 420 MAIN STREET, BLDG 4
 STURBRIDGE, MA 01566
 203-275-6669

CONSULTANT:
FORESITE LLC
Architects . Engineers . Surveyors
 462 WALNUT STREET
 NEWTON, MA 02460
 617-212-3123



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REV	DESCRIPTION	DATE
A	PRELIMINARY	04/19/21
B	REVISED PER COMMENTS	04/22/21

CL&P STRUCTURE #1256
 SITE NUMBER: CT11001B
 SITE NAME: CT11001B-GREENWICH RIVERSIDE
 SITE ADDRESS:
 160 SOUND BEACH AVENUE
 GREENWICH, CT 06870

SHEET TITLE:
T-1: TITLE SHEET

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PROJECT NOTES:

- THIS IS AN UNMANNED TELECOMMUNICATION FACILITY AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS IS NOT REQUIRED. POTABLE WATER OR SANITARY SERVICE IS NOT REQUIRED. NO OUTDOOR STORAGE OR ANY SOLID WASTE RECEPTACLES REQUIRED.
- CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS, AND CONDITIONS ON THE JOB SITE. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK. FAILURE TO NOTIFY THE ARCHITECT/ENGINEER PLACES THE RESPONSIBILITY ON THE CONTRACTOR TO CORRECT THE DISCREPANCIES AT THE CONTRACTOR'S EXPENSE.
- DEVELOPMENT AND USE OF THE SITE WILL CONFORM TO ALL APPLICABLE CODES, ORDINANCES AND SPECIFICATIONS.



PROJECT SCOPE:

THE PROPOSED PROJECT SCOPE WILL CONSIST OF INSTALLING A NEW GENERAC RD 25 KW AC DIESEL GENERATOR AND TANK FOR AN EXISTING TELECOM BASE STATION. NO SIGNIFICANT GRADING IS REQUIRED.

PROJECT INFORMATION:

SITE NUMBER: CT11001B
 SITE NAME: CT11001B-GREENWICH RIVERSIDE
 SITE ADDRESS: 160 SOUND BEACH AVENUE GREENWICH, CT 06870

STRUCTURE TYPE: UTILITY POLE
 COORDINATES: 41° 01' 58.73" N, 73° 34' 02.23" W
 GROUND ELEV: 24± (AMSL)

PROJECT TEAM:

APPLICANT: T-MOBILE NORTHEAST, LLC.
 35 GRIFFIN ROAD SOUTH
 BLOOMFIELD, CT 06002
 860-692-7100

TOWER OWNER: MCGUIRE ROAD ASSOCIATES LLC
 111 FARM BROOK LANE
 SOUTH WINDSOR, CT 06074

TOWER OWNER: THE CONNECTICUT LIGHT AND POWER COMPANY


PROJECT MANAGER: NORTHEAST SITE SOLUTIONS
 420 MAIN STREET, BLDG 4
 STURBRIDGE, MA 01566
 SHELDON FREINCLE
 SHELDON@NORTHEASTSITESOLUTIONS.COM
 TEL: 201-776-8521

ENGINEERING CONSULTANTS: FORESITE LLC
 462 WALNUT ST, SUITE 1
 NEWTON, MA 02460
 SAEED MOSSAVAT
 SMOSSAVAT@FORESITELLC.COM
 TEL: 617-212-3123

CODE COMPLIANCE:

ALL WORK SHALL COMPLY WITH THE CURRENT NATIONAL AND CONNECTICUT STATE BUILDING AND LIFE SAFETY CODES, SUPPLEMENTS AND AMENDMENTS INCLUDING BUT NOT LIMITED TO THE LATEST EDITION OF:

CONNECTICUT STATE BUILDING CODE (CSBC).
 ANSI/TIA-222-G STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS.
 NATIONAL ELECTRICAL CODE (NEC) FOR POWER AND GROUNDING REQUIREMENTS.
 OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA).
 NFPA - NATIONAL FIRE PROTECTION ASSOCIATION.



Advance Notice:
 Minimum of 2 working days in advance, no more than 30 days in advance



APPROVALS:

FSA CM	DATE
RF ENGINEER	DATE
FOPS	DATE
T-MOBILE ENGINEERING AND DEVELOPMENT	DATE
	DATE
	DATE

SHEET INDEX:

- T-1: TITLE SHEET
- N-1: GENERAL NOTES
- A-1: SITE POINT CLOUD
- A-2: SITE PLAN
- A-3: EQUIPMENT LAYOUT
- A-4: GENERATOR SPECIFICATIONS AND DETAILS
- A-5: GENERATOR SPECIFICATIONS AND DETAILS
- A-6: AUTOMATIC TRANSFER SWITCH SPECIFICATIONS
- A-7: UNDERGROUND CONDUIT AND CONCRETE PAD DETAILS
- E-1: ELECTRICAL DETAILS
- G-1: GROUNDING DETAILS

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1. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.
2. THE ARCHITECT/ENGINEER HAS MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. THE CONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.
3. THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE CLIENT'S REPRESENTATIVE OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK.
5. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS OR PERFORMING WORK TO FAMILIARIZE HIMSELF WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.
6. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S / VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
7. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS DURING CONSTRUCTION.
8. THE CONTRACTOR SHALL COMPLY WITH ALL PERTINENT SECTIONS OF THE BASIC STATE BUILDING CODE, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
9. THE CONTRACTOR SHALL NOTIFY THE CLIENT'S REPRESENTATIVE IN WRITING WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNTIL CONFLICT IS RESOLVED BY THE CLIENT'S REPRESENTATIVE.
10. THE WORK SHALL CONFORM TO THE CODES AND STANDARDS OF THE FOLLOWING AGENCIES AS FURTHER CITED HEREIN:
 - A. ASTM: AMERICAN SOCIETY FOR TESTING AND MATERIALS, AS PUBLISHED IN "COMPILATION OF ASTM STANDARDS BUILDING CODES" OR LATEST EDITION.
 - B. AWS: AMERICAN WELDING SOCIETY INC. AS PUBLISHED IN "STANDARD D1.1-08, STRUCTURAL WELDING CODE" OR LATEST EDITION.
 - C. AISC: AMERICAN INSTITUTE FOR STEEL CONSTRUCTION AS PUBLISHED IN "CODE FOR STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES"; "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" (LATEST EDITION).
11. BOLTING:
 - A. BOLTS SHALL BE CONFORMING TO ASTM A325 HIGH STRENGTH, HOT DIP GALVANIZED WITH ASTM A153 HEAVY HEX TYPE NUTS.
 - B. BOLTS SHALL BE 3/4"Ø MINIMUM (UNLESS OTHERWISE NOTED)
 - C. ALL CONNECTIONS SHALL BE 2 BOLTS MINIMUM.
12. FABRICATION:
 - A. FABRICATION OF STEEL SHALL CONFORM TO THE AISC AND AWS STANDARDS AND CODES (LATEST EDITION).
 - B. ALL STRUCTURAL STEEL SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 (LATEST EDITION), UNLESS OTHERWISE NOTED.
13. ERECTION OF STEEL:
 - A. PROVIDE ALL ERECTION EQUIPMENT, BRACING, PLANKING, FIELD BOLTS, NUTS, WASHERS, DRIFT PINS, AND SIMILAR MATERIALS WHICH DO NOT FORM A PART OF THE COMPLETED CONSTRUCTION BUT ARE NECESSARY FOR ITS PROPER ERECTION.
 - B. ERECT AND ANCHOR ALL STRUCTURAL STEEL IN ACCORDANCE WITH AISC REFERENCE STANDARDS. ALL WORK SHALL BE ACCURATELY SET TO ESTABLISHED LINES AND ELEVATIONS AND RIGIDLY FASTENED IN PLACE WITH SUITABLE ATTACHMENTS TO THE CONSTRUCTION OF THE BUILDING.
 - C. TEMPORARY BRACING, GUYING AND SUPPORT SHALL BE PROVIDED TO KEEP THE STRUCTURE SAFE AND ALIGNED AT ALL TIMES DURING CONSTRUCTION, AND TO PREVENT DANGER TO PERSONS AND PROPERTY. CHECK ALL TEMPORARY LOADS AND STAY WITHIN SAFE CAPACITY OF ALL BUILDING COMPONENTS.
14. ANTENNA INSTALLATION:
 - A. INSTALL ANTENNAS AS INDICATED ON DRAWINGS AND CLIENT'S REPRESENTATIVE SPECIFICATIONS.

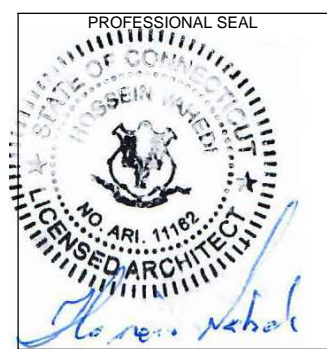
- B. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS.
- C. INSTALL COAXIAL / FIBER CABLES AND TERMINATIONS BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTORS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS.
15. ANTENNA AND COAXIAL / FIBER CABLE GROUNDING:
 - A. ALL EXTERIOR #6 GREEN GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH ANDREWS CONNECTOR/SPLICE WEATHERPROOFING KIT TYPE #221213 OR EQUAL.
 - B. ALL COAXIAL / FIBER CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL / FIBER CABLE (NOT WITHIN BENDS).
16. RELATED WORK, FURNISH THE FOLLOWING WORK AS SPECIFIED UNDER CONSTRUCTION DOCUMENTS, BUT COORDINATE WITH OTHER TRADES PRIOR TO BID:
 - A. FLASHING OF OPENING INTO OUTSIDE WALLS
 - B. SEALING AND CAULKING ALL OPENINGS
 - C. PAINTING
 - D. CUTTING AND PATCHING
17. REQUIREMENTS OF REGULATORY AGENCIES:
 - A. FURNISH U.L. LISTED EQUIPMENT WHERE SUCH LABEL IS AVAILABLE. INSTALL IN CONFORMANCE WITH U.L. STANDARDS WHERE APPLICABLE.
 - B. INSTALL ANTENNA, ANTENNA CABLES, GROUNDING SYSTEM IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION IN EFFECT AT PROJECT LOCATION AND RECOMMENDATIONS OF STATE AND LOCAL BUILDING CODES, AND SPECIAL CODES HAVING JURISDICTION OVER SPECIFIC PORTIONS OF WORK. THIS WORK INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:
 - C. TIA-EIA - 222 (LATEST EDITION). STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES.
 - D. FAA - FEDERAL AVIATION ADMINISTRATION ADVISORY CIRCULAR AC 70/7460-IH, OBSTRUCTION MARKING AND LIGHTING.
 - E. FCC - FEDERAL COMMUNICATIONS COMMISSION RULES AND REGULATIONS FORM 715, OBSTRUCTION MARKING AND LIGHTING SPECIFICATION FOR ANTENNA STRUCTURES AND FORM 715A, HIGH INTENSITY OBSTRUCTION LIGHTING SPECIFICATIONS FOR ANTENNA STRUCTURES.
 - F. AISC - AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 BOLTS (LATEST EDITION).
 - G. NEC - NATIONAL ELECTRICAL CODE - ON TOWER LIGHTING KITS.
 - H. UL - UNDERWRITER'S LABORATORIES APPROVED ELECTRICAL PRODUCTS.
 - I. IN ALL CASES, PART 77 OF THE FAA RULES AND PARTS 17 AND 22 OF THE FCC RULES ARE APPLICABLE AND IN THE EVENT OF CONFLICT, SUPERSEDE ANY OTHER STANDARDS OR SPECIFICATIONS.
 - J. 2018 LIFE SAFETY CODE NFPA - 101.

APPLICANT:
T-Mobile
T-MOBILE NORTHEAST LLC
 35 GRIFFIN ROAD SOUTH
 BLOOMFIELD, CT 06002
 860-692-7100

PROJECT MANAGER

 420 MAIN STREET, BLDG 4
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 203-275-6669

CONSULTANT:
FORESITE LLC
Architects . Engineers . Surveyors
 462 WALNUT STREET
 NEWTON, MA 02460
 617-212-3123



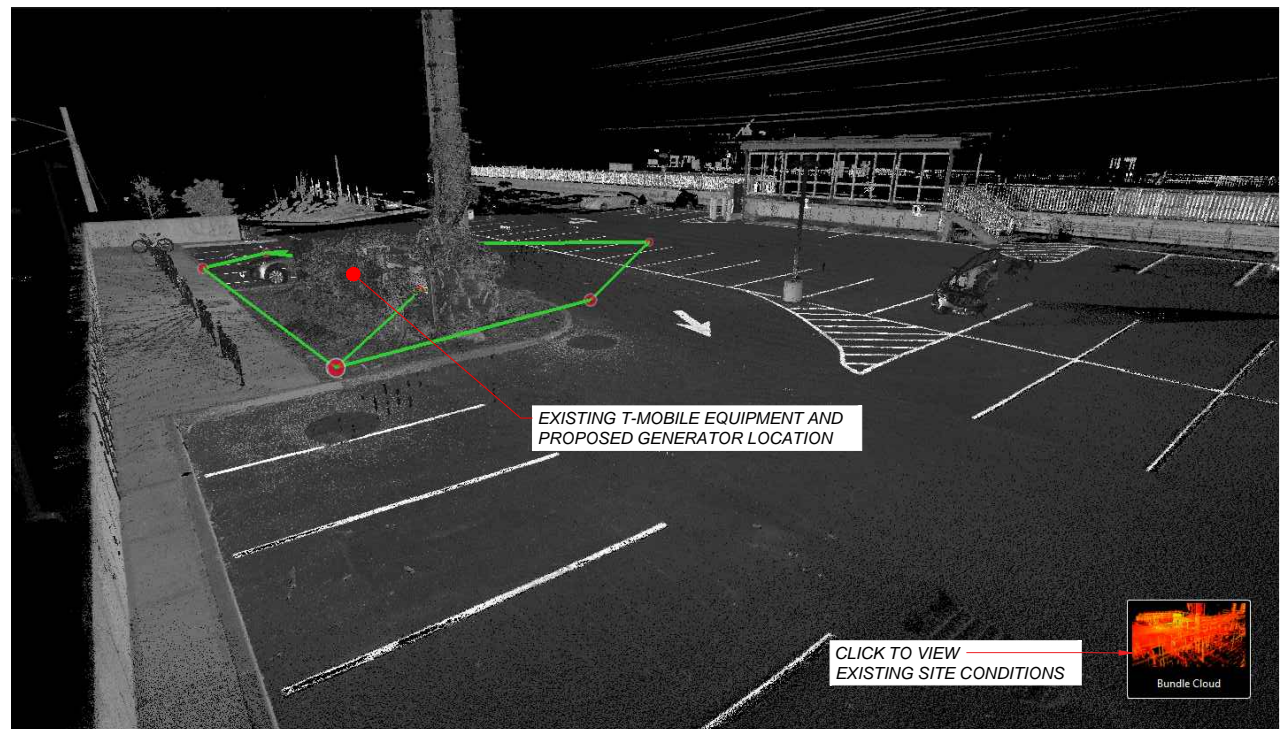
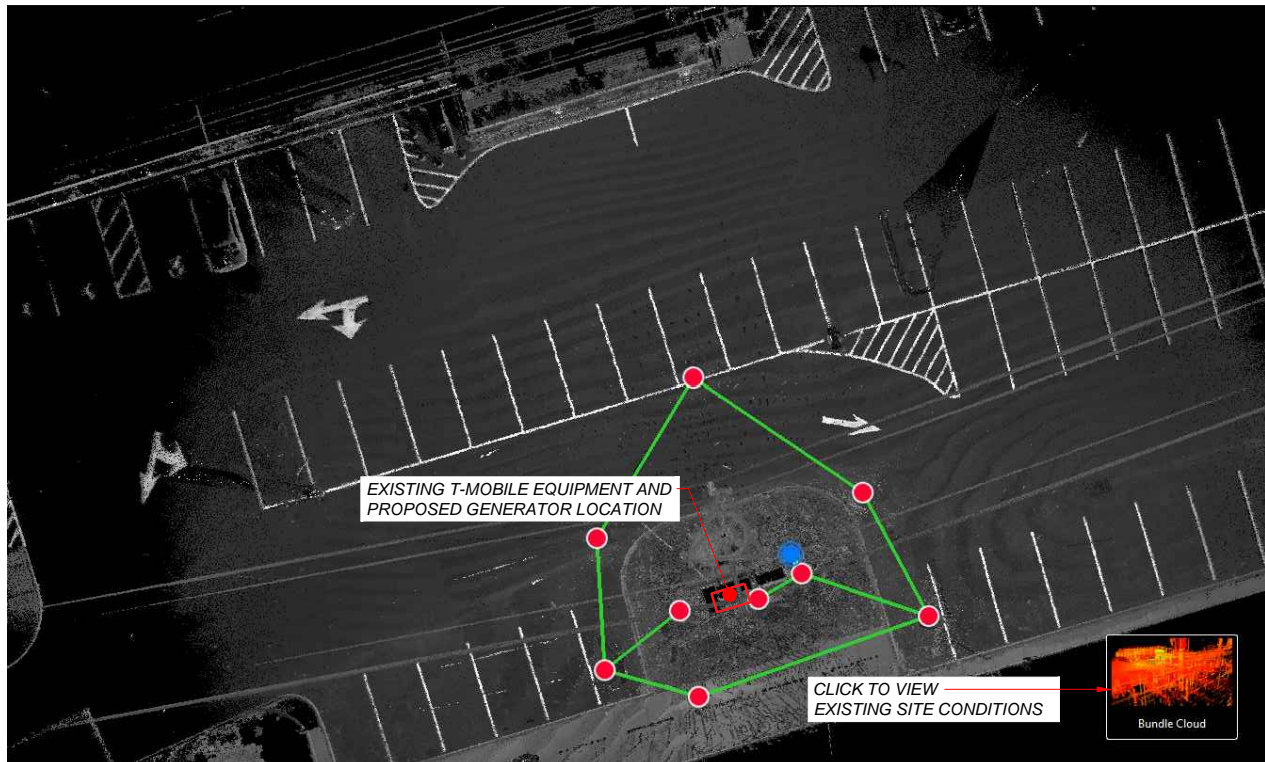
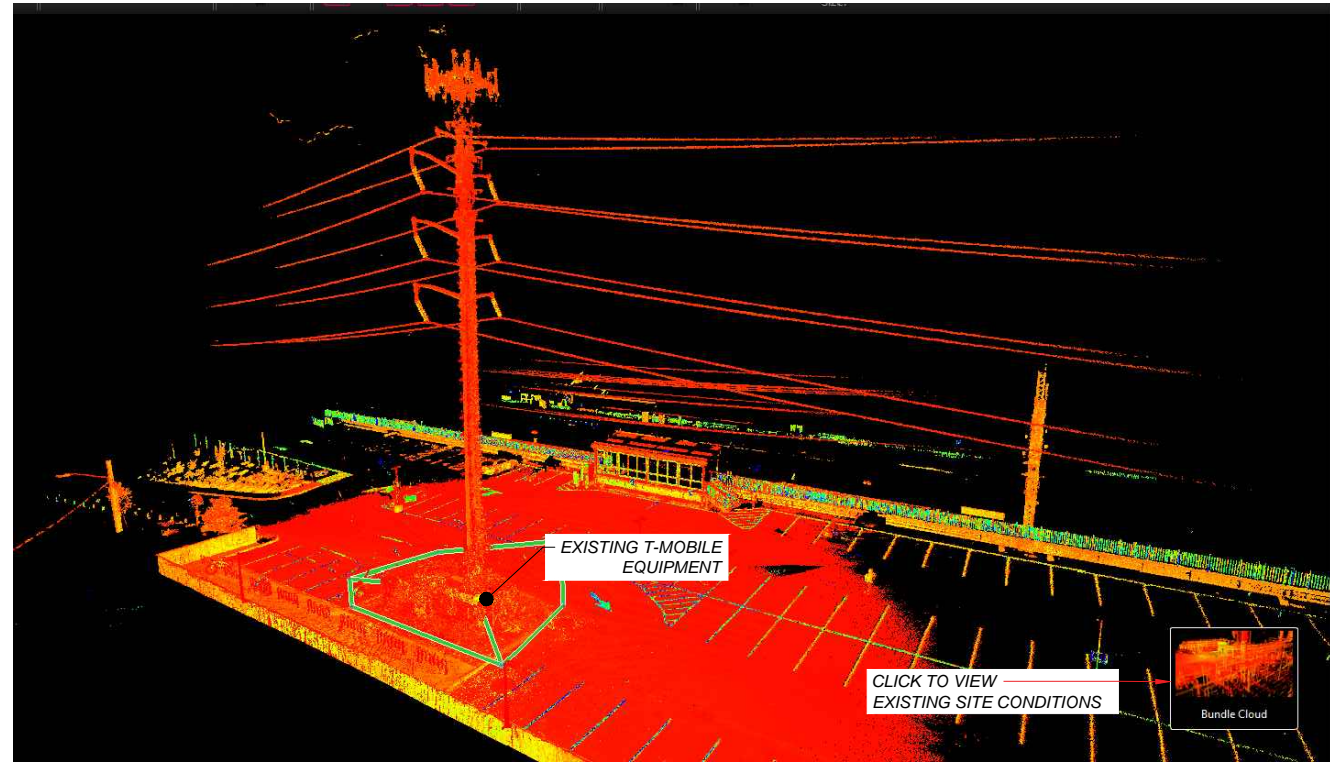
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 SITE NAME: CT11001B-GREENWICH RIVERSIDE
 SITE ADDRESS:
 160 SOUND BEACH AVENUE
 GREENWICH, CT 06870

SHEET TITLE:
N-1: GENERAL NOTES

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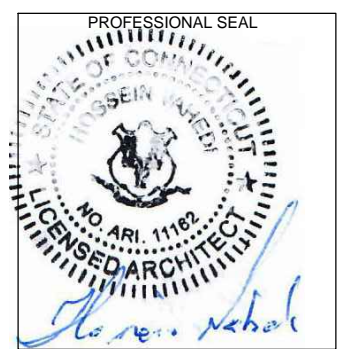
SITE POINT CLOUD
NTS

1
A-1

APPLICANT:
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T-MOBILE NORTHEAST LLC
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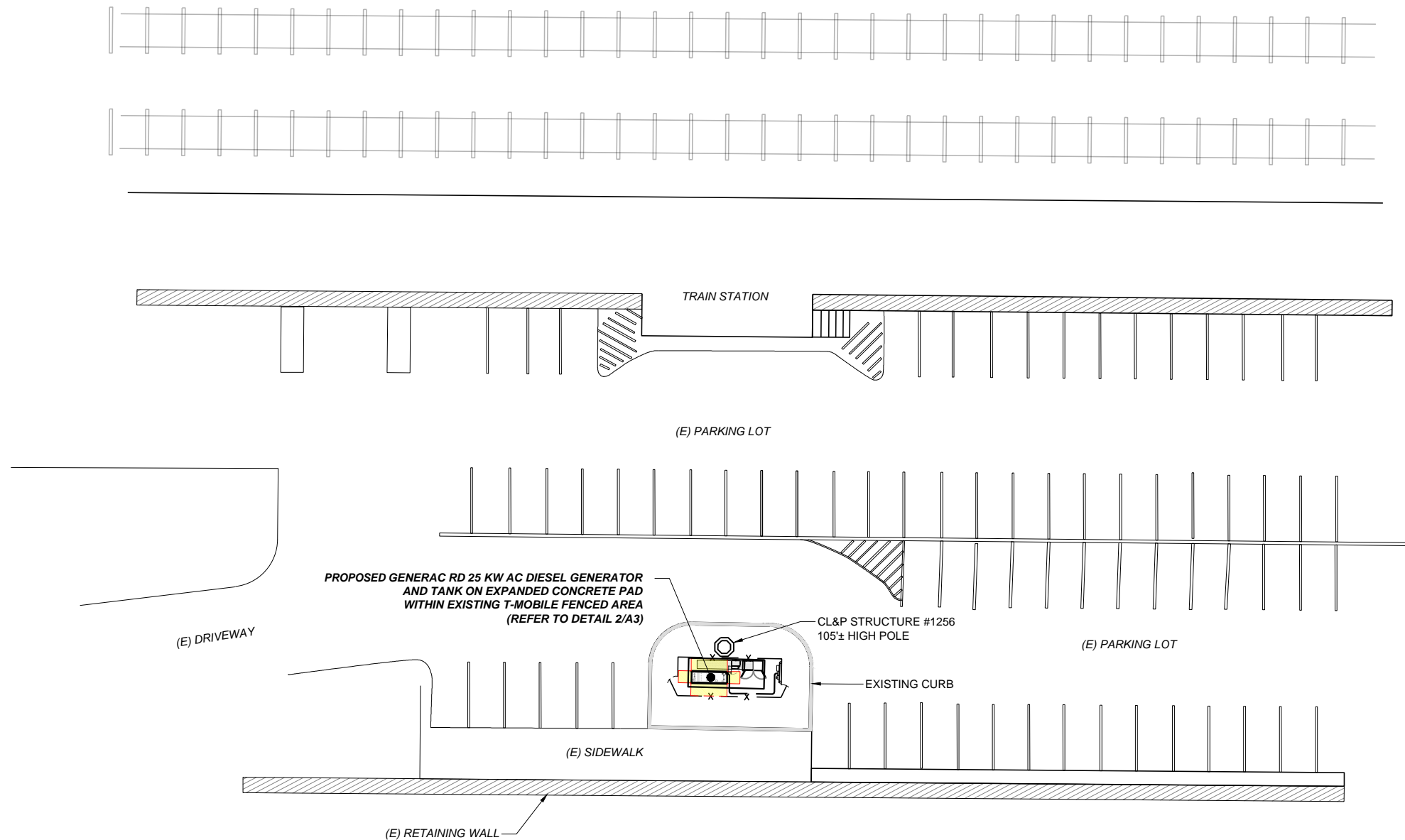
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SHEET TITLE:
A-1: SITE POINT CLOUD

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SITE PLAN
SCALE: 1/32"=1'-0"

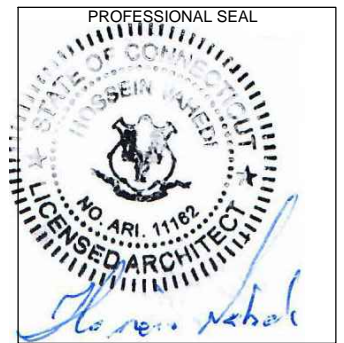
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A-2

APPLICANT:
T-Mobile
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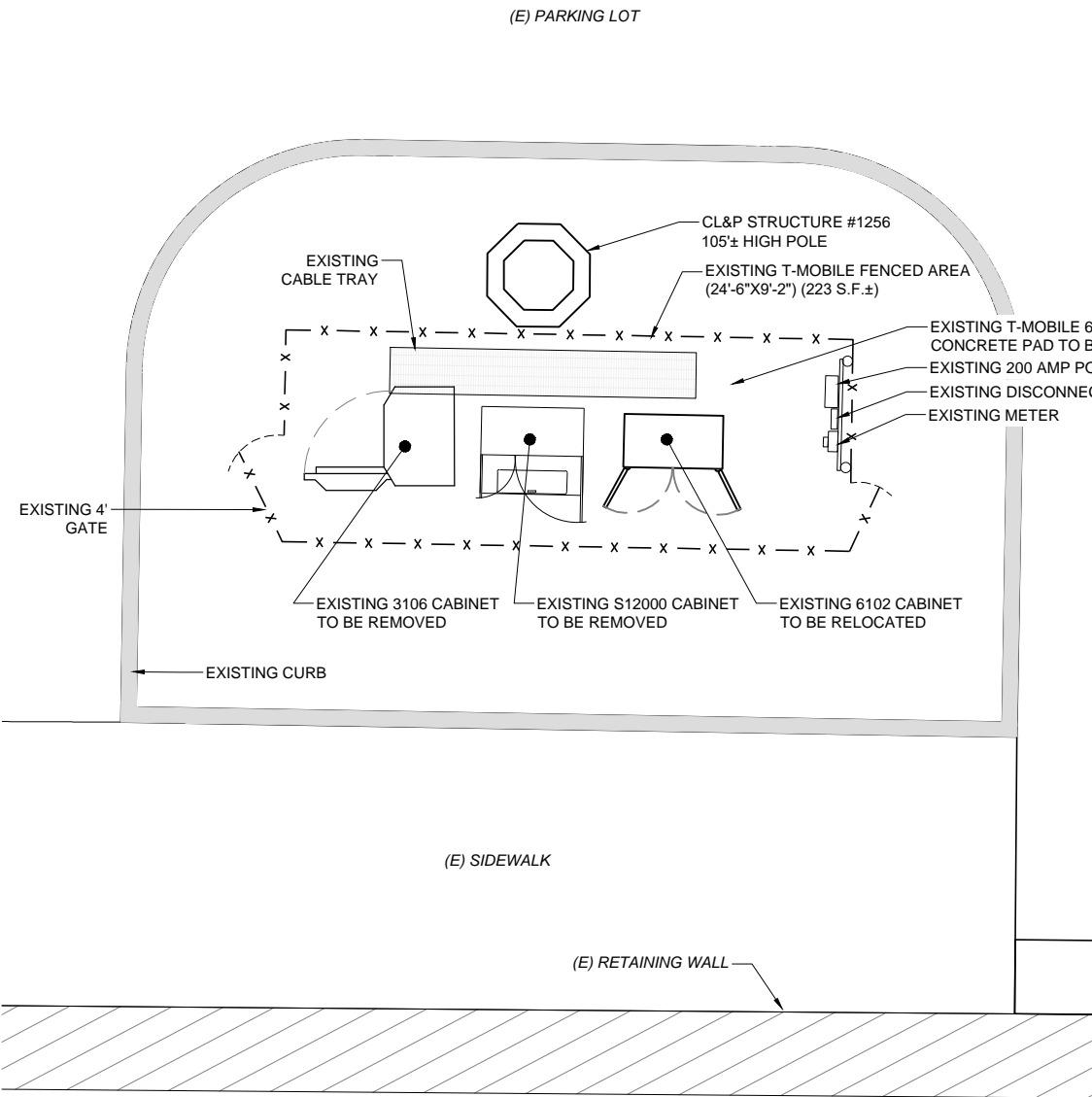
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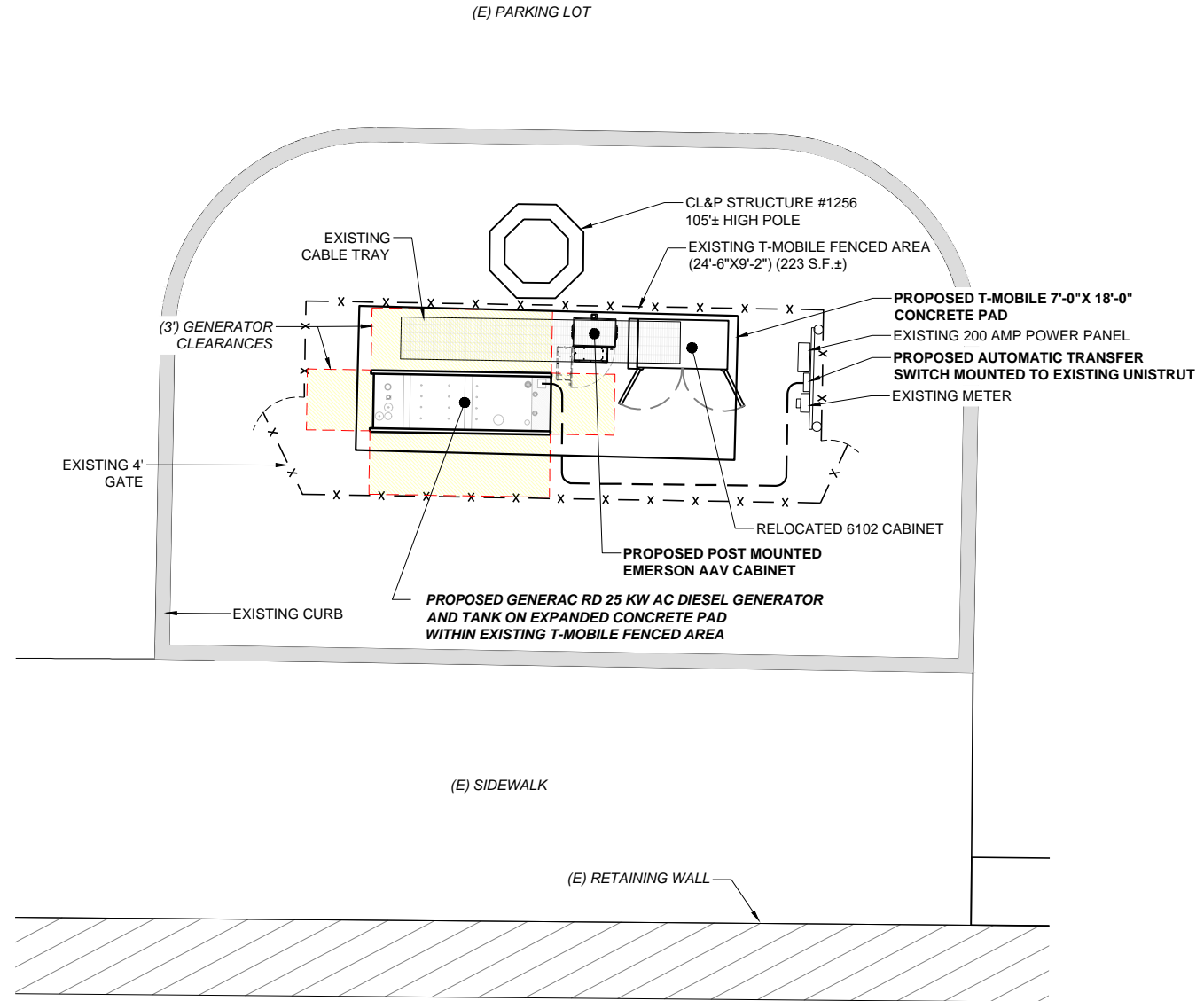
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SHEET TITLE:
A-2: SITE PLAN

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EXISTING EQUIPMENT LAYOUT 1
SCALE: 1/8"=1'-0" A-3



PROPOSED EQUIPMENT LAYOUT 2
SCALE: 1/8"=1'-0" A-3

APPLICANT:
T-Mobile
T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD SOUTH
BLOOMFIELD, CT 06002
860-692-7100

PROJECT MANAGER

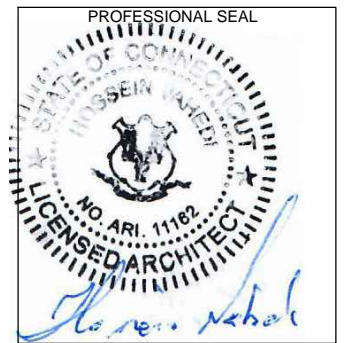


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CONSULTANT:



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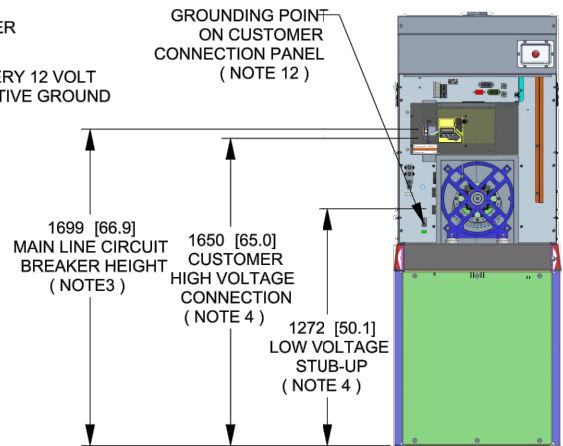
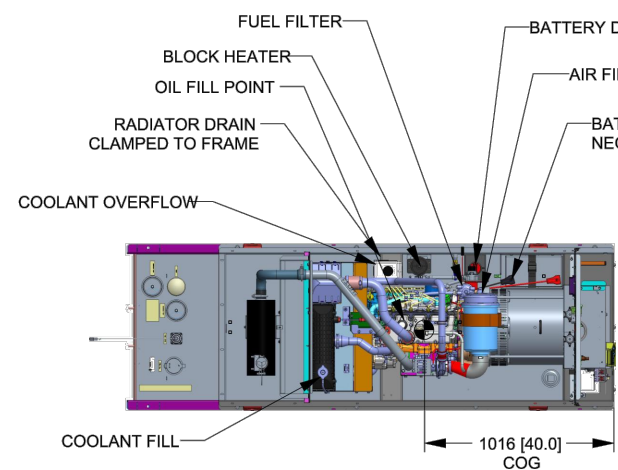
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SHEET TITLE:
A-3: EQUIPMENT LAYOUT PLAN

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GENERAC RD 25 KW AC DIESEL GENERATOR AND TANK

SH	1/2	REV	2	WINDCHILL VERSION	2.12
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WEIGHT DATA WITH EMPTY BASE TANK (SEE NOTE 6)

GENERATOR AS SHOWN	1336 [2946]
WITH WOODEN SHIPPING SKID	1354 [2984]

WEIGHT: KG [LBS]
DIMENSIONS: MM [INCHES]

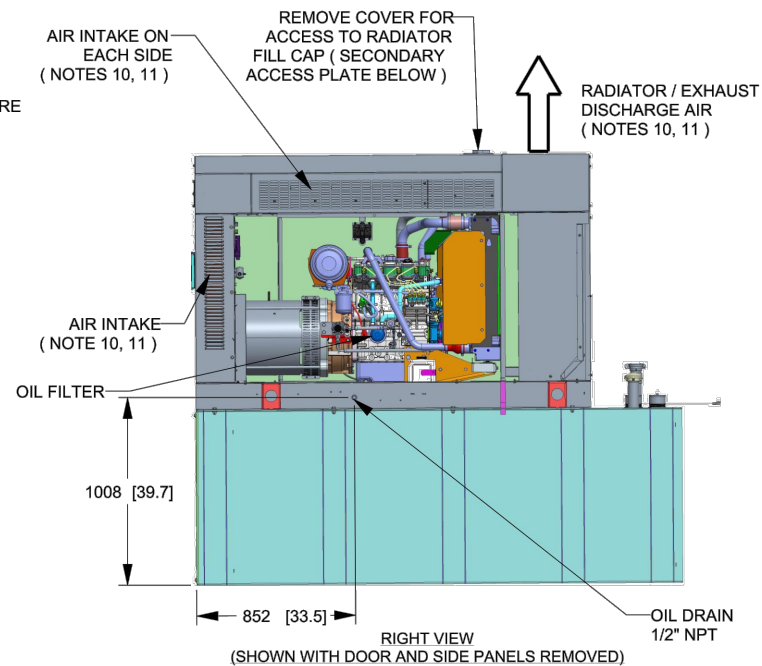
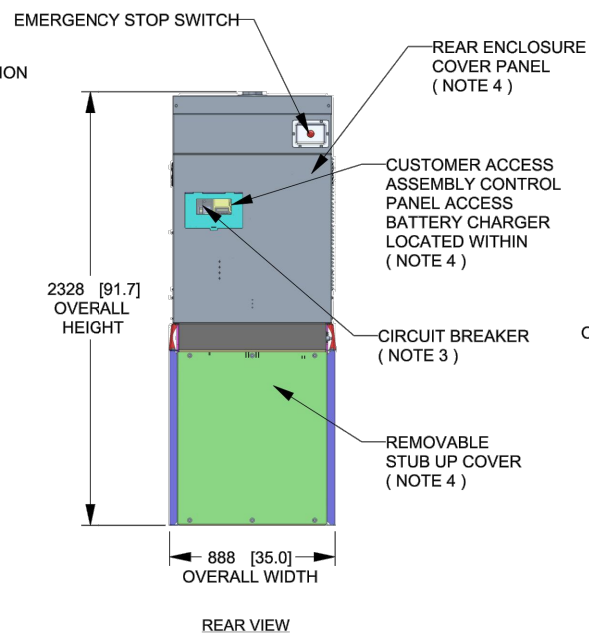
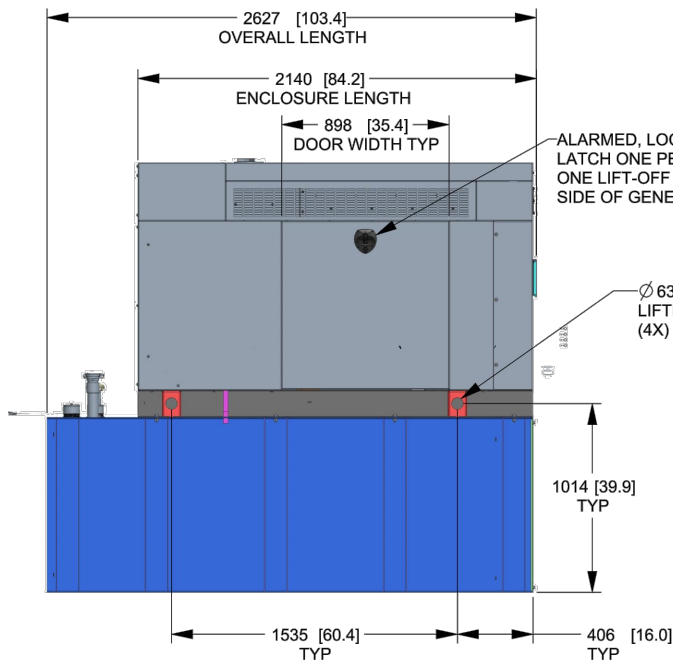
- NOTES:**
- THIS UNIT MUST BE INSTALLED IN ACCORDANCE WITH CURRENT APPLICABLE NFPA 37 AND NFPA 70 STANDARDS AS WELL AS ANY OTHER FEDERAL, STATE, AND LOCAL CODES.
 - BATTERY (12 VOLT NEGATIVE GROUND SYSTEM).
 - CONTROL PANEL / CIRCUIT BREAKER INFORMATION:
 - MAIN LINE CIRCUIT BREAKER 125 AMPS
 - SEE SPECIFICATION SHEET OR OWNERS MANUAL
 - ACCESSIBLE THROUGH CUSTOMER ACCESS ASSEMBLY DOOR ON REAR OF GENERATOR.
 - CONTROL PANEL INCLUDES INTEGRATED BATTERY CHARGER
 - REMOVE THE REAR STUB-UP AND REAR ENCLOSURE COVER PANEL TO ACCESS THE STUB-UP AREAS AS FOLLOWS:
 - HIGH VOLTAGE CONNECTION INCLUDING AC LOAD LEAD CONDUIT CONNECTION, NEUTRAL CONNECTION, AND BATTERY CHARGER 120 VOLT AC (0.5 AMP MAX) CONNECTION.
 - LOW VOLTAGE CONNECTION INCLUDING TRANSFER SWITCH CONTROL WIRES
 - ENGINE SERVICE CONNECTIONS
OIL DRAIN: 1/2" NPT
RADIATOR DRAIN : HOSE CLAMPED TO FRAME
 - CENTER OF GRAVITY AND WEIGHT MAY CHANGE DUE TO UNIT OPTIONS.
 - BOTTOM OF GENERATOR SET MUST BE ENCLOSED TO PREVENT PEST INTRUSION AND RECIRCULATION OF DISCHARGE AIR AND/OR IMPROPER COOLING AIR FLOW.
 - REFERENCE OWNERS MANUAL FOR LIFTING WARNINGS.
 - MOUNTING BOLTS OR STUDS TO MOUNTING SURFACE SHALL BE 5/8-11 GRADE 5 (USE STANDARD SAE TORQUE SPECS)
 - MUST ALLOW FREE FLOW OF INTAKE AIR, DISCHARGE AIR AND EXHAUST. SEE SPEC SHEET FOR MINIMUM AIR FLOW AND MAXIMUM RESTRICTION REQUIREMENTS.
 - GENERATOR MUST BE INSTALLED SUCH THAT FRESH COOLING AIR IS AVAILABLE AND THAT DISCHARGE AIR FROM RADIATOR IS NOT RECIRCULATED. RECOMMENDED MINIMUM PERIMETER(3FT) AND VERTICAL OVER EXHAUST (5FT) CLEARANCE FOR SITE LOCATION.
 - GENERATOR MUST BE GROUNDED.

B

B

TOP VIEW (SHOWN WITH ENCLOSURE REMOVED)

REAR VIEW (SHOWN WITH REAR COVER PANEL REMOVED)



A

A

DRAWING CREATED FROM PRO/ENGINEER 3D FILE. ECO MODIFICATION TO BE APPLIED TO SOLID MODEL ONLY.

INSTALLATION DRAWING

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ELECTRONICALLY APPROVED INSIDE WINDCHILL



TITLE			
INSTALLATION D2.2L 25KW Y06 PD			
ISSUE DATE: 5/10/18			
SIZE	CAGE NO	DWG NO	REV
B	N/A	10000036728	2
SCALE	WT-KG	SEE ABOVE	SHEET
0.031			1 of 2

4

3

2

1

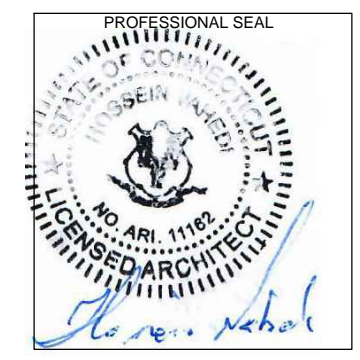
GENERATOR SPECIFICATIONS
N.T.S.

1
A-4

APPLICANT:
T-Mobile
T-MOBILE NORTHEAST LLC
35 GRIFFIN ROAD SOUTH
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203-275-6669

CONSULTANT:
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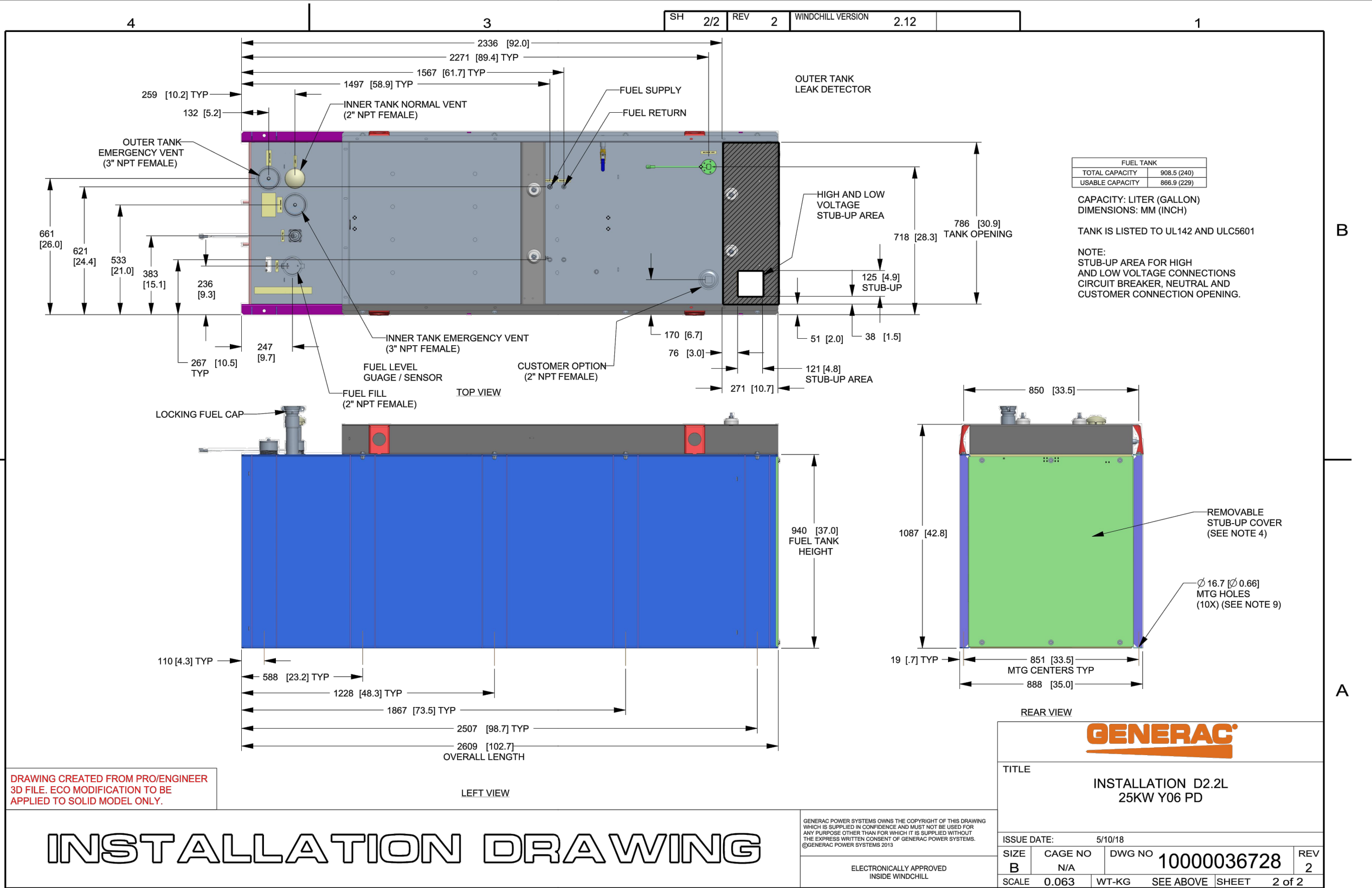
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CL&P STRUCTURE #1256
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SITE NAME: CT11001B-GREENWICH RIVERSIDE
SITE ADDRESS:
160 SOUND BEACH AVENUE
GREENWICH, CT 06870

SHEET TITLE:
A-4: GENERATOR SPECIFICATIONS

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SH 2/2 REV 2 WINDCHILL VERSION 2.12



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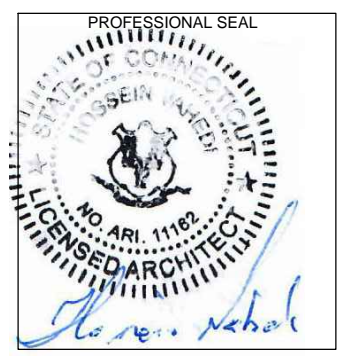
INSTALLATION DRAWING

GENERATOR SPECIFICATIONS 1 A-5

APPLICANT:
T-Mobile
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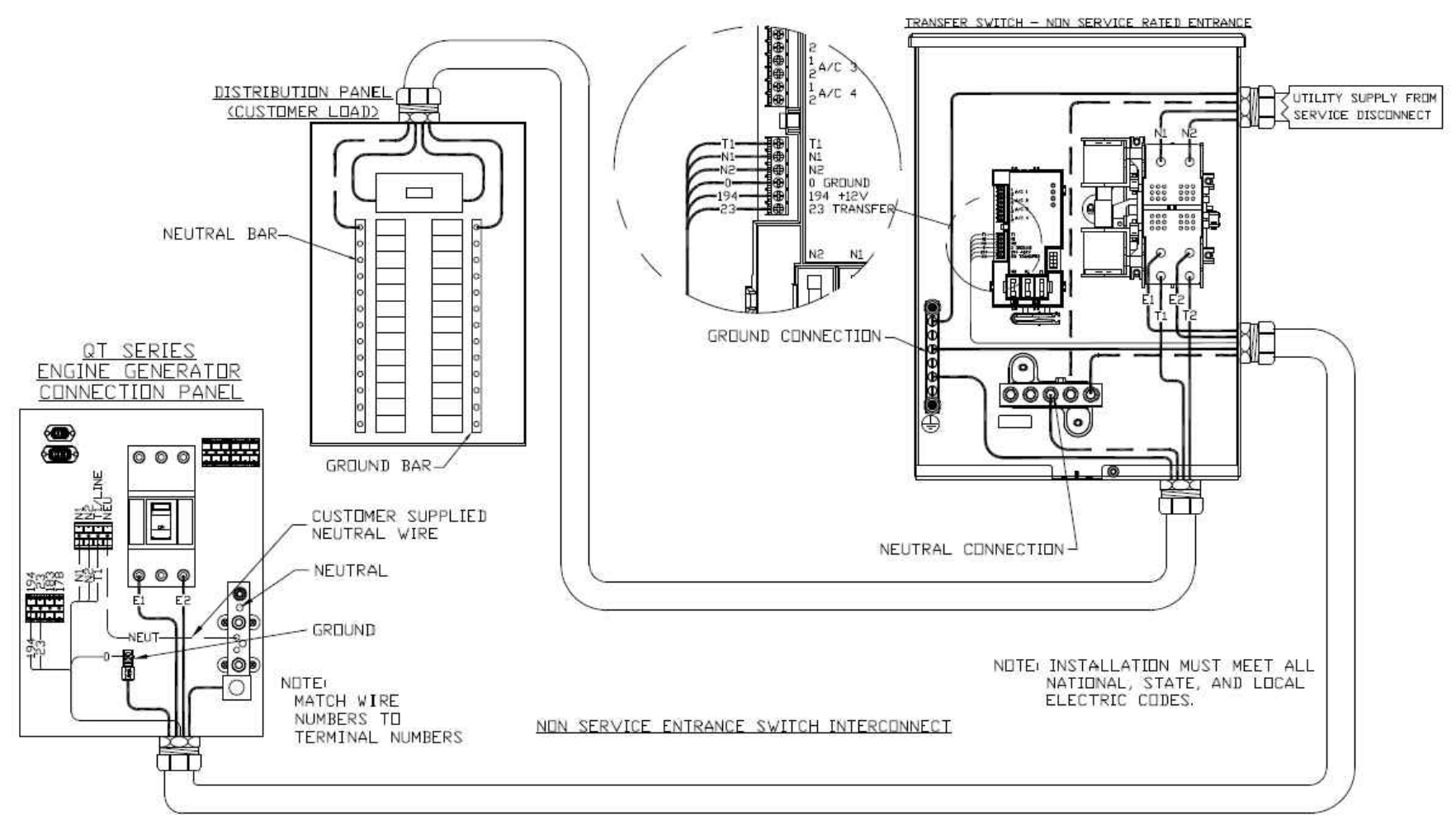
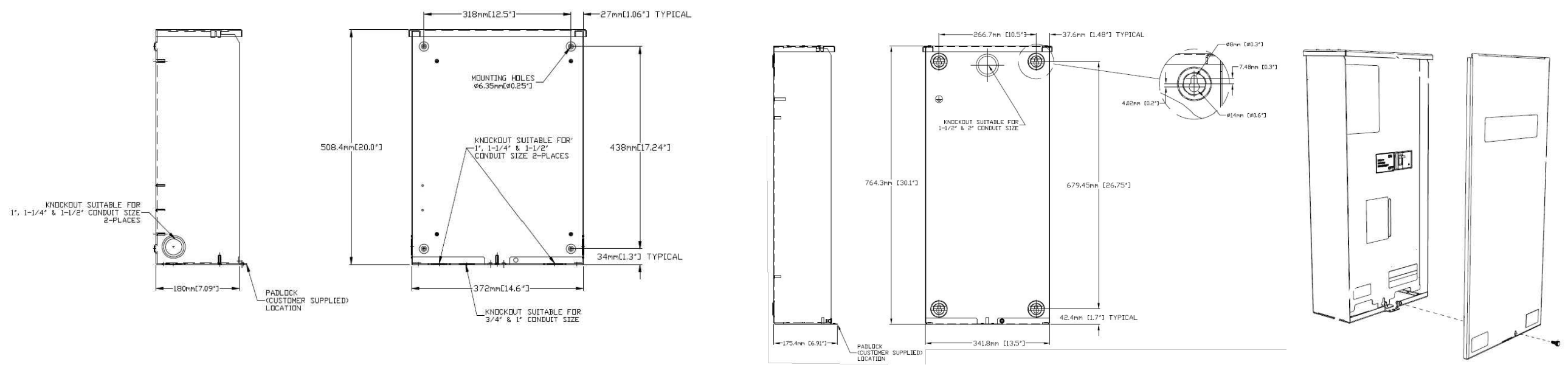
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SHEET TITLE:
A-5: GENERATOR SPECIFICATIONS

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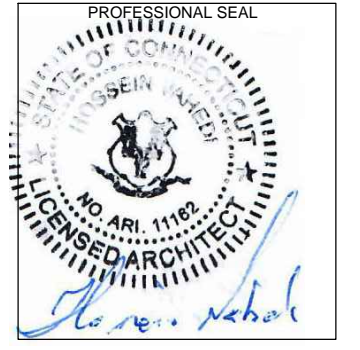
AUTOMATIC TRANSFER SWITCH DETAILS
 SCALE: N.T.S. 1
A-6

APPLICANT:
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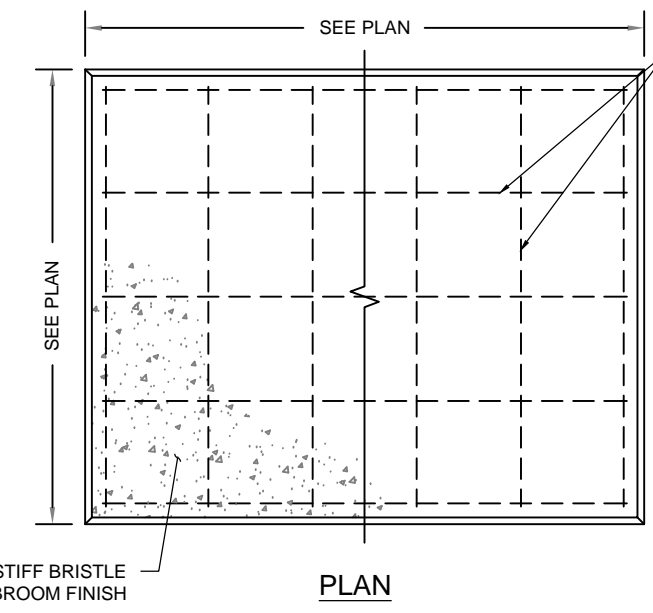
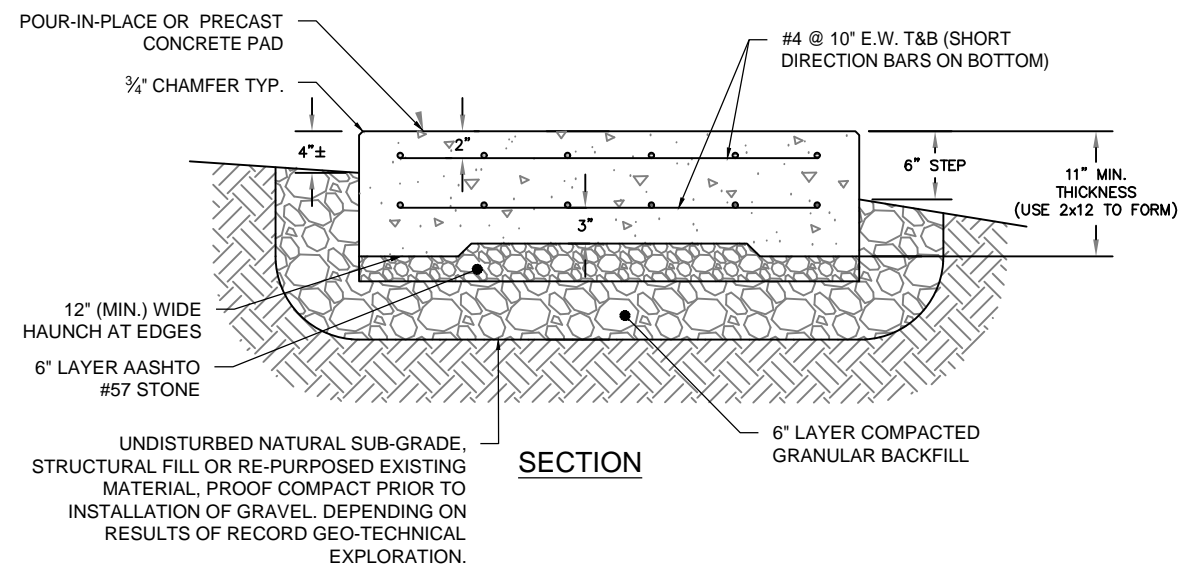
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 GREENWICH, CT 06870

SHEET TITLE:
 A-6: AUTOMATIC TRANSFER SWITCH
 DETAILS AND SPECIFICATIONS

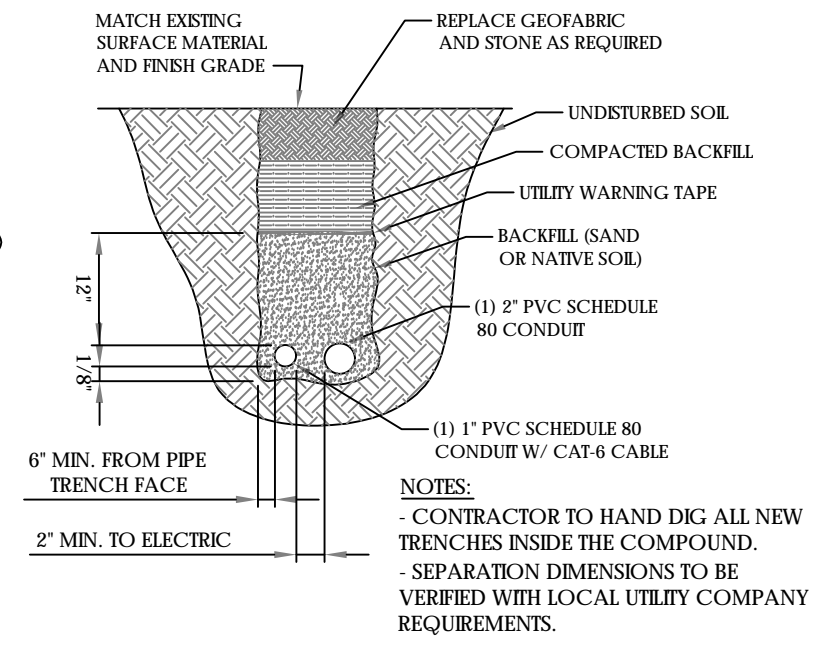
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- NOTES:**
1. BEARING STRATA MEDIUM TO DENSE INSET GRANULAR MATERIAL OR COMPACTED FILL. 95% COMPACTION.
 2. SUBGRADE AND FILL SHALL CONSIST OF CLEAN SOIL. NO DELETERIOUS MATERIALS OR ORGANICS TO BE USED.
 3. CONCRETE FORM WORK SHALL BE CONSTRUCTED USING MINIMUM 2"x8" NOMINAL SIZE LUMBER. STRIP AND REMOVE UPON COMPLETION.
 4. CONCRETE SHALL HAVE 4000PSI 28-DAY COMPRESSIVE STRENGTH WITH 5(±1)% AIR ENTRAINMENT, 4(±1)" SLUMP AND BRISTLE BROOM FINISH.

CONCRETE PAD DETAILS
 SCALE: N.T.S.

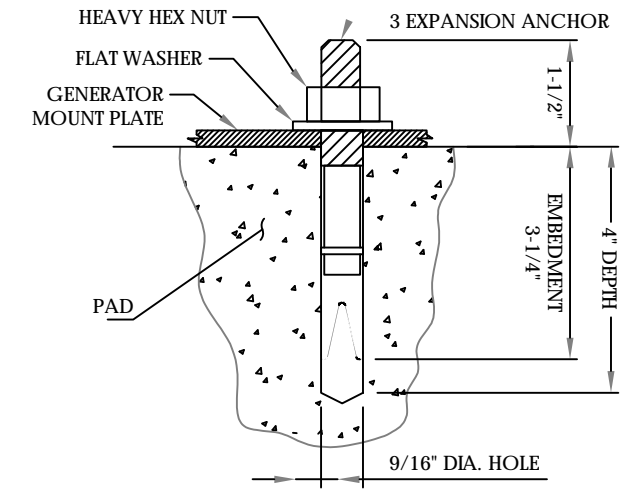
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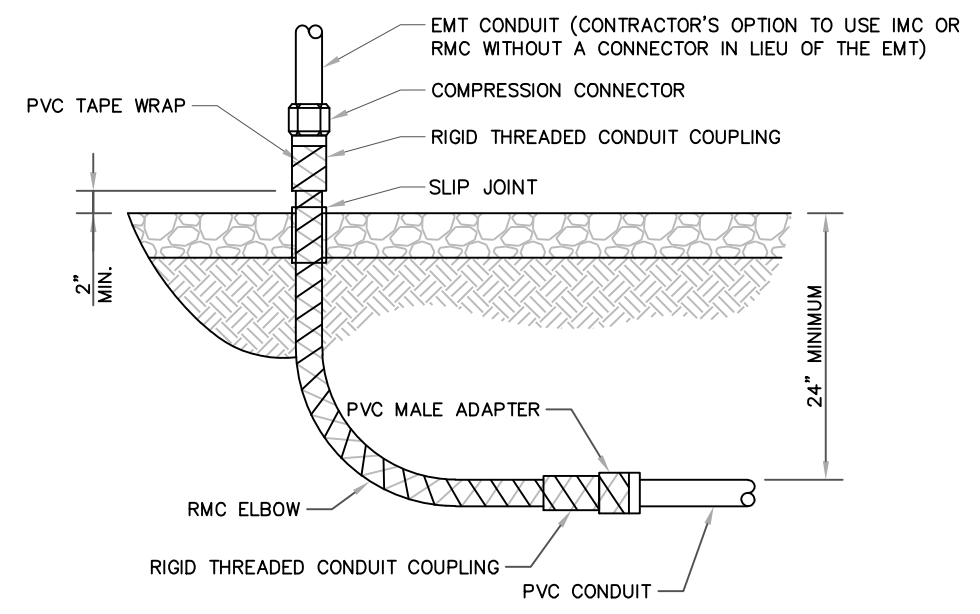
- NOTES:**
- CONTRACTOR TO HAND DIG ALL NEW TRENCHES INSIDE THE COMPOUND.
 - SEPARATION DIMENSIONS TO BE VERIFIED WITH LOCAL UTILITY COMPANY REQUIREMENTS.

UNDERGROUND CONDUIT STUB UP
 SCALE: N.T.S.

3
 A-7



- NOTES:**
1. BOLTS CAN BE INSTALLED 2 DAYS AFTER POURING CONCRETE PROVIDED THE KWIK BOLTS ARE ONLY TIGHTENED TO A SNUG TIGHT CONDITION.
 2. APPLY "HILTI" HIT-RE 500-SD EPOXY TO ALL GAPS TO PREVENT WATER/MOISTURE BUILD-UP.
 3. PROVIDE 6 (SEE MANUFACTURERS INSTALLATION DRAWINGS) ANCHOR BOLTS PER SIDE.



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.

APPLICANT:
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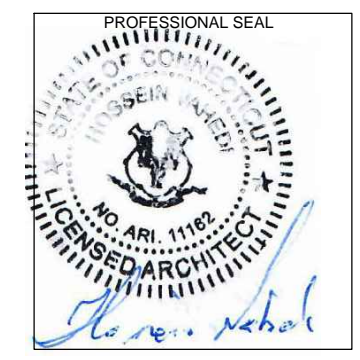
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A-7: CONCRETE PAD AND UNDERGROUND CONDUIT DETAILS

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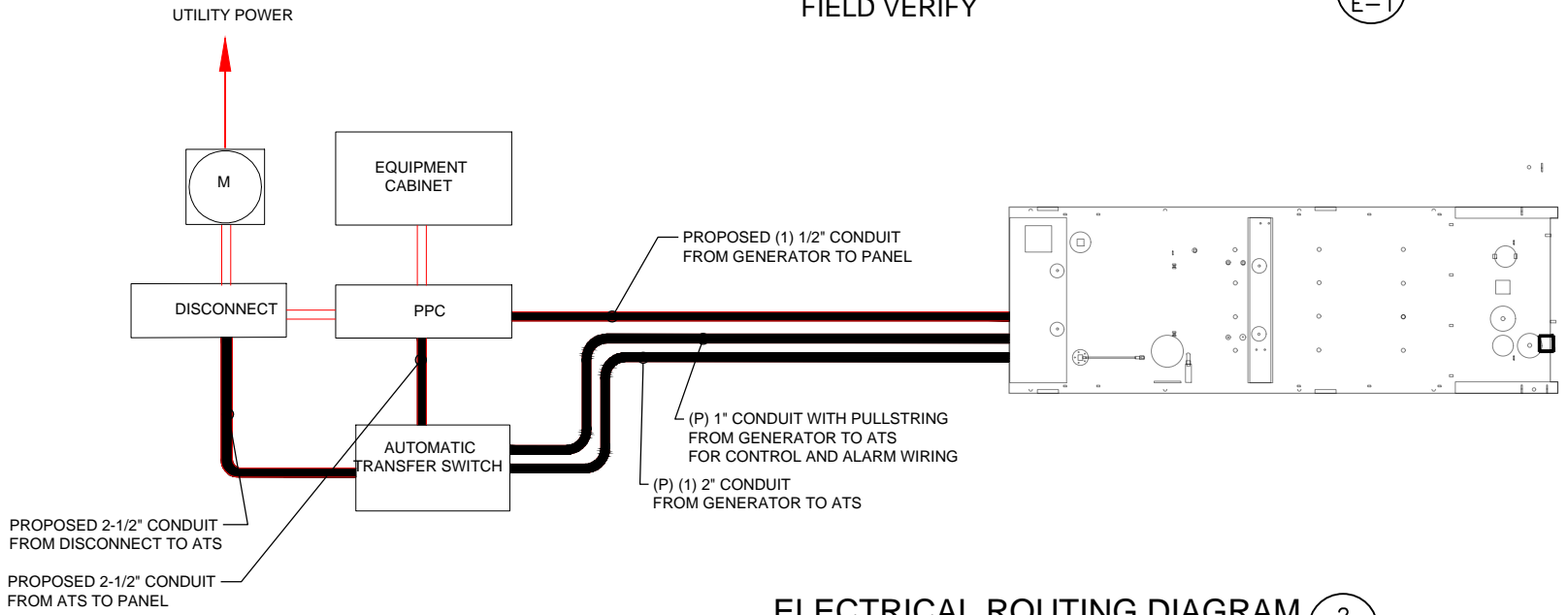
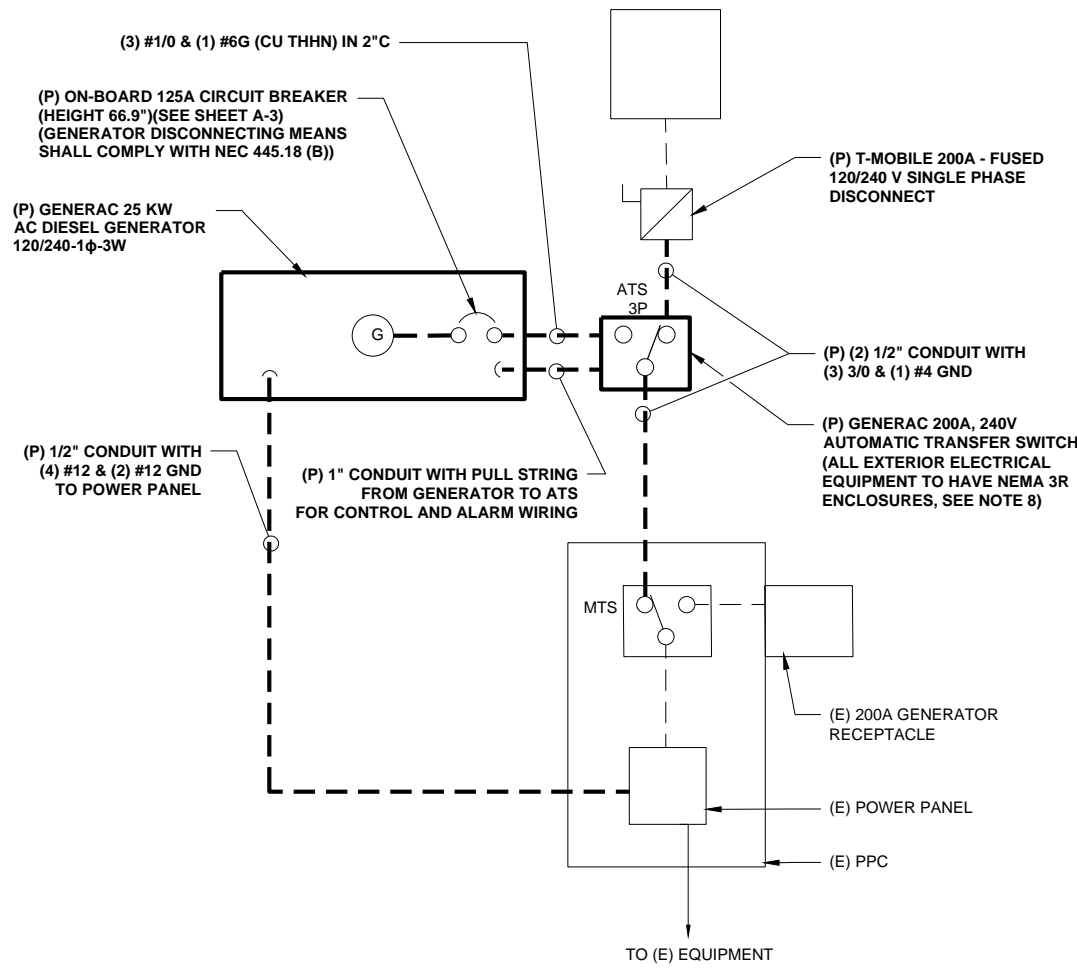
GENERAL ELECTRICAL NOTES

- ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES INCLUDING LATEST EDITIONS OF:
 NFPA - NATIONAL FIRE PROTECTION ASSOCIATION
 UL - UNDERWRITERS LABORATORIES
 NEC - 2017 NATIONAL ELECTRICAL CODE NEMA - NATIONAL ELECTRIC MANUFACTURERS ASSOCIATION
 OSHA - OCCUPATIONAL SAFETY AND HEALTH ACT
 IBC - 2015 INTERNATIONAL BUILDING CODE
- ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PRODUCED 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 SHALL PAY FEES FOR PERMITS, AND RESPONSIBLE FOR OBTAINING SAID PERMITS AND COORDINATION OF INSPECTIONS.
- ELECTRICAL AND TELCO WIRING OUTSIDE A BUILDING AND EXPOSED TO WEATHER SHALL BE IN WATER TIGHT GALVANIZED RIGID STEEL CONDUITS OR SCHEDULE 80 PVC (AS PERMITTED BY CODE) ND WHERE REQUIRED IN LIQUID TIGHT FLEXIBLE METAL OR NONMETALLIC CONDUITS.
- RIGID STEEL CONDUITS SHALL BE GROUNDED AT BOTH ENDS.
- ELECTRICAL WIRING SHALL BE COPPER WITH TYPE XHHW, THWN, OR THIN INSULATION.
- ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NAME 3R ENCLOSURE.
- GROUNDED SHALL COMPLY WITH NEC ART. 250.
- GROUNDED COAX CABLE SHIELDS MINIMUM AT BOTH ENDS USING MANUFACTURES COAX CABLE GROUNDED KITS SUPPLIED BY PROJECT OWNER.
- USE #6 COPPER STRANDED WIRE WITH GREEN COLOR INSTALLATION FOR ABOVE GRADE GROUNDED (UNLESS OTHERWISE SPECIFIED) AND #2 SOLID TINNED BARE COPPER WIRE FOR BELOW GRADE GROUNDED AS INDICATED ON THE GROUND.
- ALL GROUND CONNECTION TO BE BURNDY HYGROUND COMPRESSION TYPE CONNECTORS OR CADWELD EXOTHERMIC WELD. DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.
- ROUTE GROUNDED CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDED LEADS SHOULD NEVER BE BENT AS RIGHT ANGLE. ALWAYS MAKE AT LEAST 12" RADIUS BENDS. #6 WIRE CAN BE BENT AT 6" RADIUS WHEN NECESSARY BOND ANY METER OBJECTS WITHIN 7 FEET OF PROPOSED EQUIPMENT OR CABINET TO MASTER GROUND BAR.
- CONNECTIONS TO MGB SHALL BE ARRANGED IN THREE MAIN GROUPS: SURGE PROCEDURES (COAXIAL CABLE GROUND KITS, TELCO AND POWER PANEL GROUND); (GROUNDING ELECTRODE RING OR BUILDING STEEL); NON-SURGING OBJECTS (EGB GROUND IN RBS UNIT).
- CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.
- APPLY OXIDE INHIBITING COMPOUND TO ALL COMPRESSION TYPE GROUND CONNECTION.
- TEST COMPLETED GROUND SYSTEM AND RECORD RESULTS FOR PROJECT CLOSE-OUT DOCUMENTATION.
- BOND ANY METAL OBJECTS WITHIN 7 FEET OF PROPOSED EQUIPMENT OR CABINET TO MASTER GROUND BAR.
- VERIFY PROPOSED SERVICE UPGRADE WITH LOCAL UTILITY COMPANY PRIOR TO CONSTRUCTION.
- EXISTING UNDERGROUND UTILITY LOCATIONS ARE UNKNOWN. GENERAL CONTRACTOR SHALL HAND-EXCAVATE TO REQUIRED SUB-GRADE DEPTH, SUFFICIENT TEST HOLES OR AS DIRECTED / REQUIRED BY CONSTRUCTION MANAGER. ALL PROPOSED UNDERGROUND UTILITY TRENCHES SHALL BE HAND-EXCAVATE AS REQUIRED. GENERAL CONTRACTOR IS RESPONSIBLE FOR ANY REQUIRED SPECIAL TEMPORARY PROTECTION OF, PHYSICAL DAMAGE TO, OR REPAIR OF EXISTING UNDERGROUND CONDUIT INCLUDING RESTORATION OF SERVICE.
- PROVIDE SLIP JOINS WHERE CONDUITS TRANSITION FROM UNDERGROUND TO ABOVE GROUND.

NOTES:
 DIAGRAM AS SHOWN, IS A GENERIC ROUTING SCHEMATIC BASED ON AVAILABLE INFORMATION AND MAY NOT REPRESENT ACTUAL FIELD CONDITIONS. CONTRACTOR SHOULD INSTALL THE GENERATOR, EQUIPMENT AND CONNECTIONS BASED ON VERIFIED ELECTRICAL AUDITS AND PER MANUFACTURER'S INSTALLATION GUIDELINES AS WELL AS ALL APPLICABLE LOCAL AND NATIONAL CODES AND REQUIREMENTS.

GROUNDED NOTES:

- GROUNDED SHALL COMPLY WITH NEC ART. 250 AND MANUFACTURER'S RECOMMENDATIONS. TIE INTO THE EXISTING GROUNDED SYSTEM.
- CONTRACTOR SHALL INSTALL GROUND RODS ON ALL UNDERGROUND GROUNDED RUNS LONGER THAN 10'. GROUND RODS WILL BE INSTALLED ON 20' CENTERS MAXIMUM.
- ALL DOWN CONDUCTORS MUST GO DOWN PER NFPA 780.
- CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER WHEN THE GROUNDED SYSTEM IS COMPLETE. THE CONSTRUCTION MANAGER SHALL INSPECT THE GROUNDED SYSTEM PRIOR TO BACKFILLING.
- CONTRACTOR MY USE EXISTING CONDUITS AND CONDUCTORS PROVIDED THEY ARE IN GOOD CONDITION AND ARE SUFFICIENTLY RATED.



APPLICANT:
T-Mobile
T-MOBILE NORTHEAST LLC
 35 GRIFFIN ROAD SOUTH
 BLOOMFIELD, CT 06002
 860-692-7100

PROJECT MANAGER

 420 MAIN STREET, BLDG 4
 STURBRIDGE, MA 01566
 203-275-6669

CONSULTANT:
FORESITE LLC
 Architects . Engineers . Surveyors
 462 WALNUT STREET
 NEWTON, MA 02460
 617-212-3123

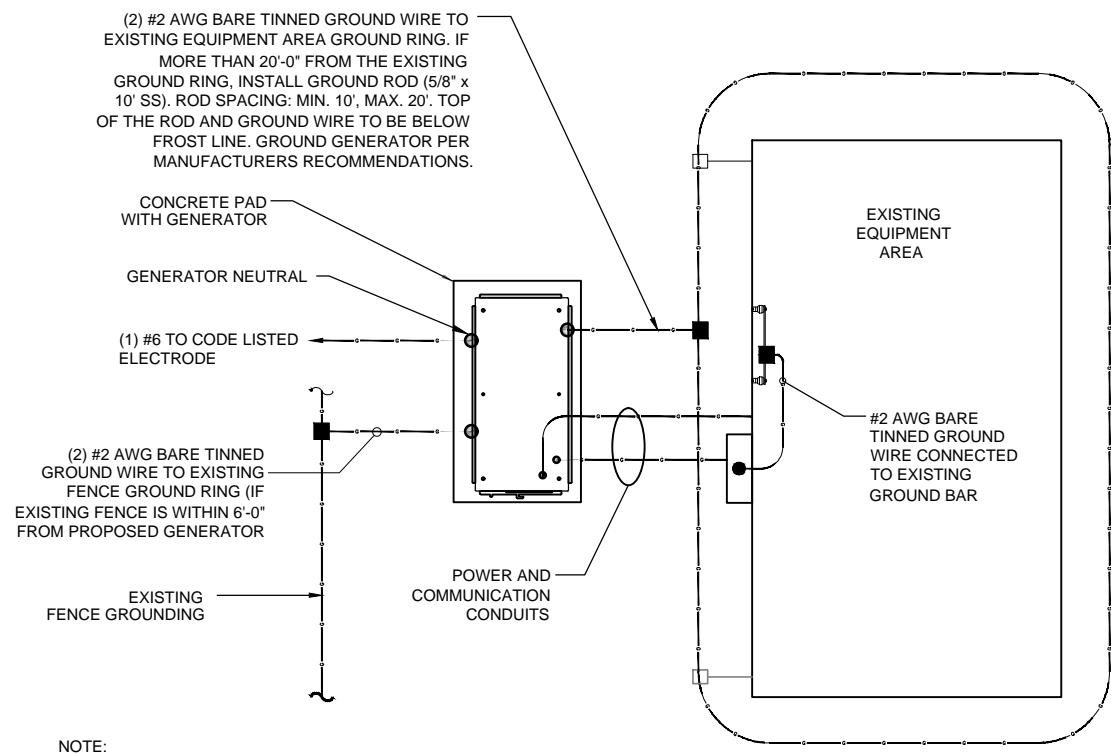
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REV	DESCRIPTION	DATE
A	PRELIMINARY	04/19/21
B	REVISED PER COMMENTS	04/22/21

CL&P STRUCTURE #1256
 SITE NUMBER: CT11001B
 SITE NAME: CT11001B-GREENWICH RIVERSIDE
 SITE ADDRESS:
 160 SOUND BEACH AVENUE
 GREENWICH, CT 06870

SHEET TITLE:
 E-1: ELECTRICAL DETAILS

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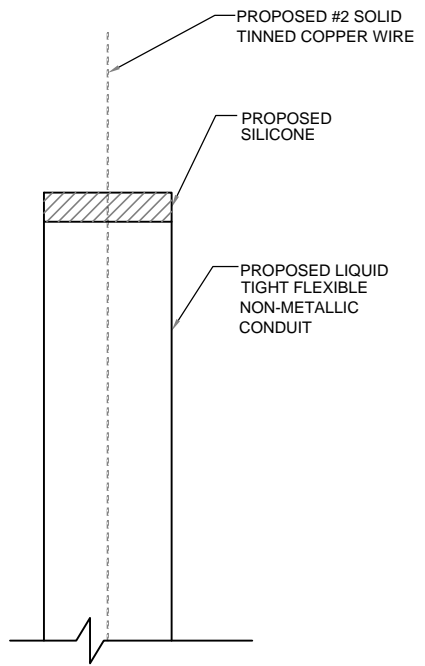


NOTE:
 1- PROVIDE GENERATOR NEUTRAL GROUND AS A SEPARATELY- DERIVED SYSTEM PER NEC / NFPA 70 - 250.30A.
 2- FOR ACTUAL ORIENTATION OF GENERATOR, PAD, FENCE, TOWER & UNDER GROUND POWER/TELCO SEE PAGE A-1.

NOTE:
 VERIFY QTY., LENGTH, TYPE & CONFIGURATION OF GROUND RODS TO ENSURE SYSTEM PROVIDES GROUND RESISTANCE OF 5 OHMS OR LESS

GROUND PLAN 1
 NTS G-1

NOTE:
 CONTRACTOR TO USE CLEAR OR GRAY SILICONE AS NECESSARY TO SEAL LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT.



GROUND WIRE WEATHERPROOFING 2
 NTS G-1

APPLICANT:
T-Mobile
T-MOBILE NORTHEAST LLC
 35 GRIFFIN ROAD SOUTH
 BLOOMFIELD, CT 06002
 860-692-7100

PROJECT MANAGER

 420 MAIN STREET, BLDG 4
 STURBRIDGE, MA 01566
 203-275-6669

CONSULTANT:
FORESITE LLC
Architects . Engineers . Surveyors
 462 WALNUT STREET
 NEWTON, MA 02460
 617-212-3123



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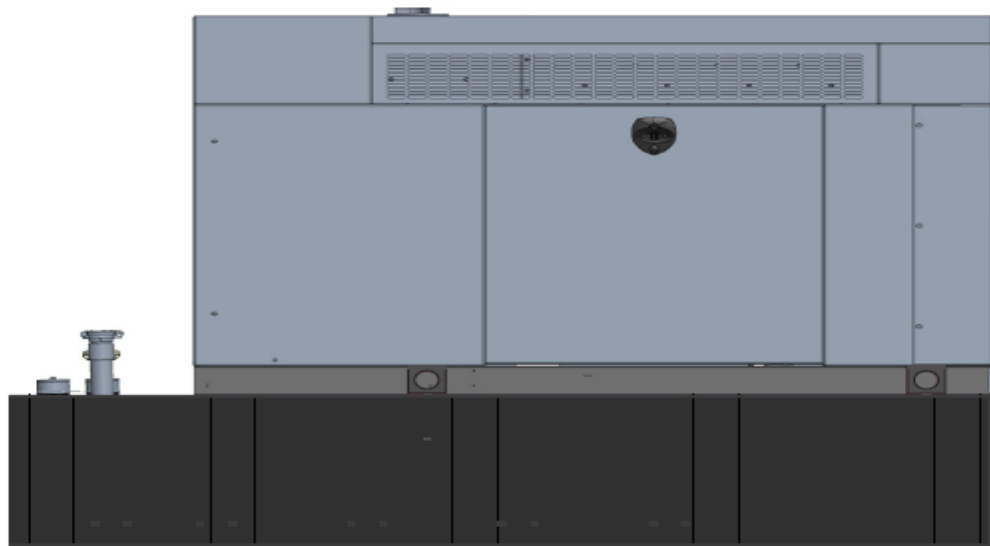
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 SITE NUMBER: CT11001B
 SITE NAME: CT11001B-GREENWICH RIVERSIDE
 SITE ADDRESS:
 160 SOUND BEACH AVENUE
 GREENWICH, CT 06870

SHEET TITLE:
 G-1: GROUNDING DETAILS

Exhibit D

Generac RD025 Design Document

Diesel, AC, 25kW External Fill Tank Model#7192-0 SKU#33651



The following are responsible for this project document:

Kevin Smith

SR. Engineer (770) 256-3594

Project Design Spec Revision	1.0	Last Date:08/23/2018	5/14/2018
Final doc URL (~Dnnnnn):			
Location	Use the InfoRouter Search (Advanced) putting the Document ID (nnnnnn without the D) to find the location of the master document.		
Template URL:	http://docs.eng.t-mobile.com/InfoRouter/docs/~D423750 Slightly updated 1/2011		

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1 Introduction / Project Summary

1.1 Purpose of Project

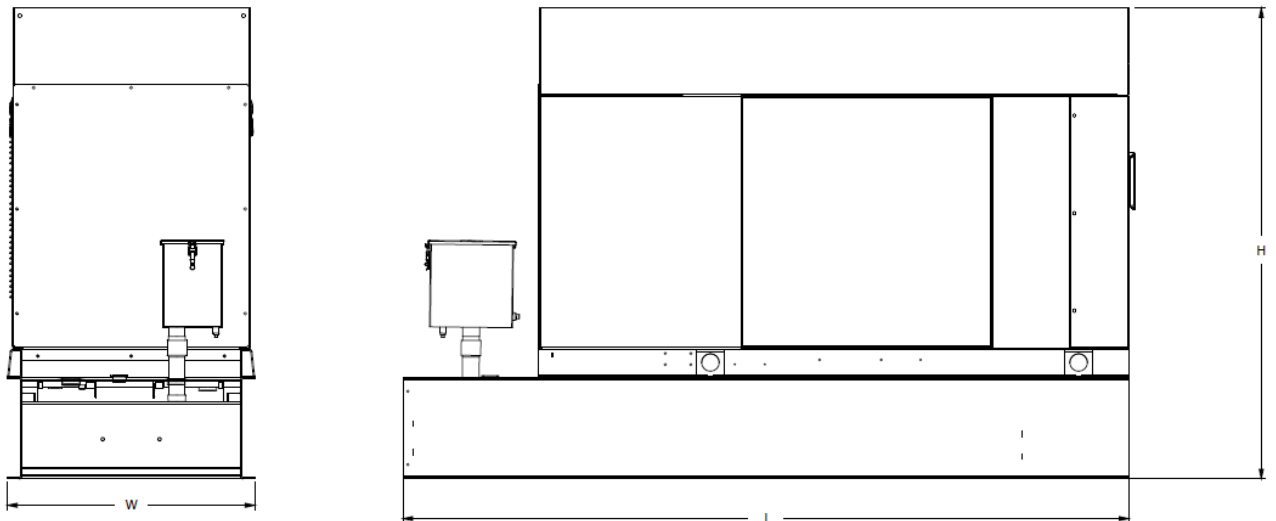
T-Mobile’s nationwide cell site hardening plan is providing a refuellable backup power system capable of powering a site for a minimum of 48 hours before refueling is required. The purpose of this project is to give T-Mobile customers reliable service during power outages and provide a sufficient layer of coverage. This design document is for Generac’s RD025 model#7192-0, which is a Diesel AC generator with a capacity of 25kW.

1.2 Feature Description

The Generac RD025 is a 25kW AC, diesel generator is one of the generators selected as part of the T-Mobile RFP in support of the nationwide cell site hardening plan. The RD025 has a Level 2 acoustic enclosure, 3 phase sensing, and +/-0.25% digital voltage regulation. It is equipped with RS232, RS485 and canbus remote ports and Evolution control panel. It is also equipped with a automatic transfer switch, the RXSC200A3 (Automatic Transfer Switch) Controls the process of transferring commercial AC power and generator power. The RXSC200A3 is a 200Amp, switch that is programmed to perform engine test runs and also has adjustable engine run time capabilities. For RXSC200A3 Owners Manual and full feature descriptions [LINK](#).

1.3 Dimensions

The dimensions of a level 2 Acoustic Enclosure L x W x H in inches 103.4 x 35 x 91.7. T-Mobile requires a 36-inch radius around the generator that will cover the 18” door swing on the generator.

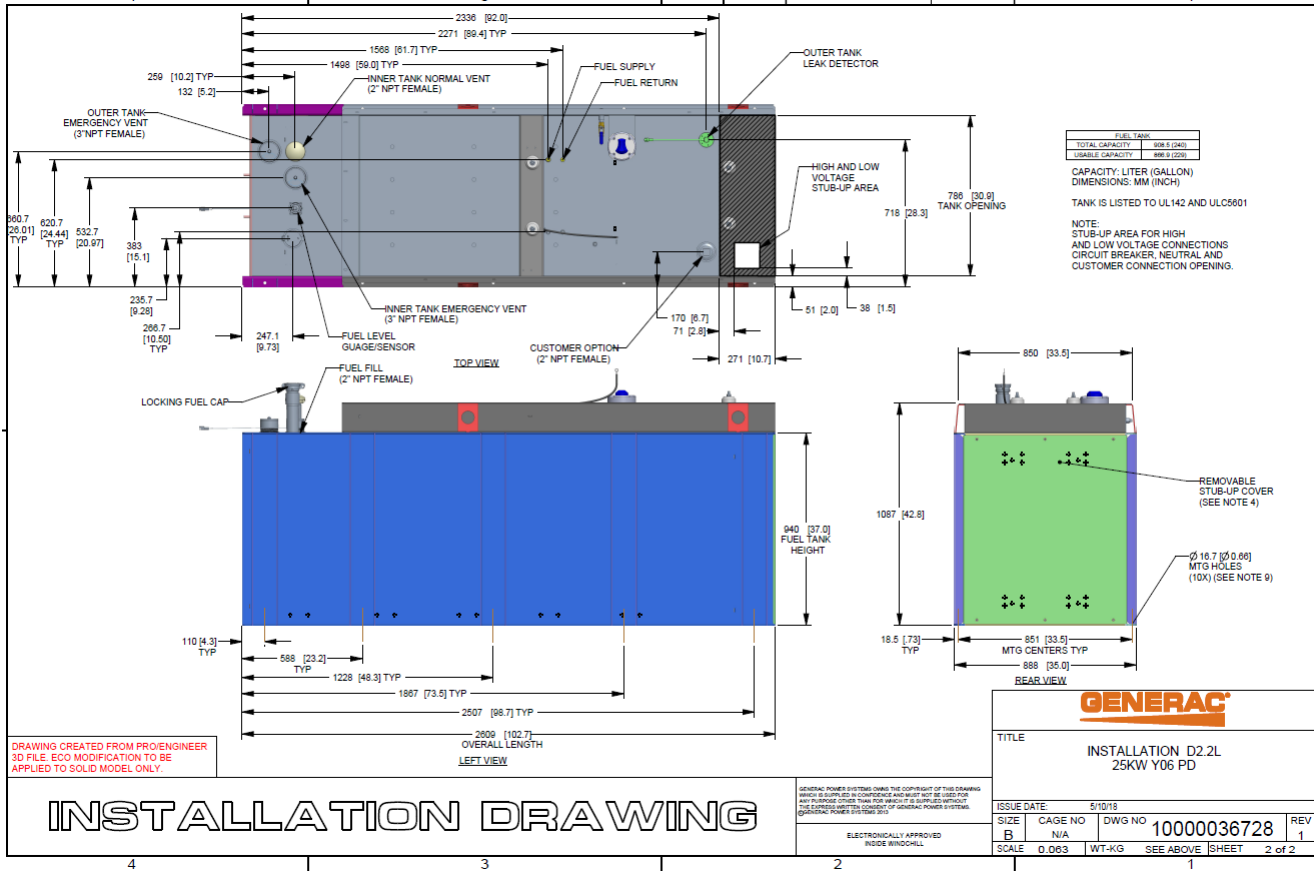


Weights and Dimensions

Unit Weight - lbs	Unit Weight with Skid - lbs	Dimensions (L x W x H) - in
2,123	2,161	103.4 x 35.0 x 73.8

2 Fuel Tanks

The RD025 has a 102.7" 240 Gallon Double-Wall UL142 Base tank to provide 98 hours of backup power at full load deployed on site. Below is the Install drawing for the 240-gallon tank for the RD025kW.



3 RXSC200A3 ATS/ Controller

3.1 Hardware

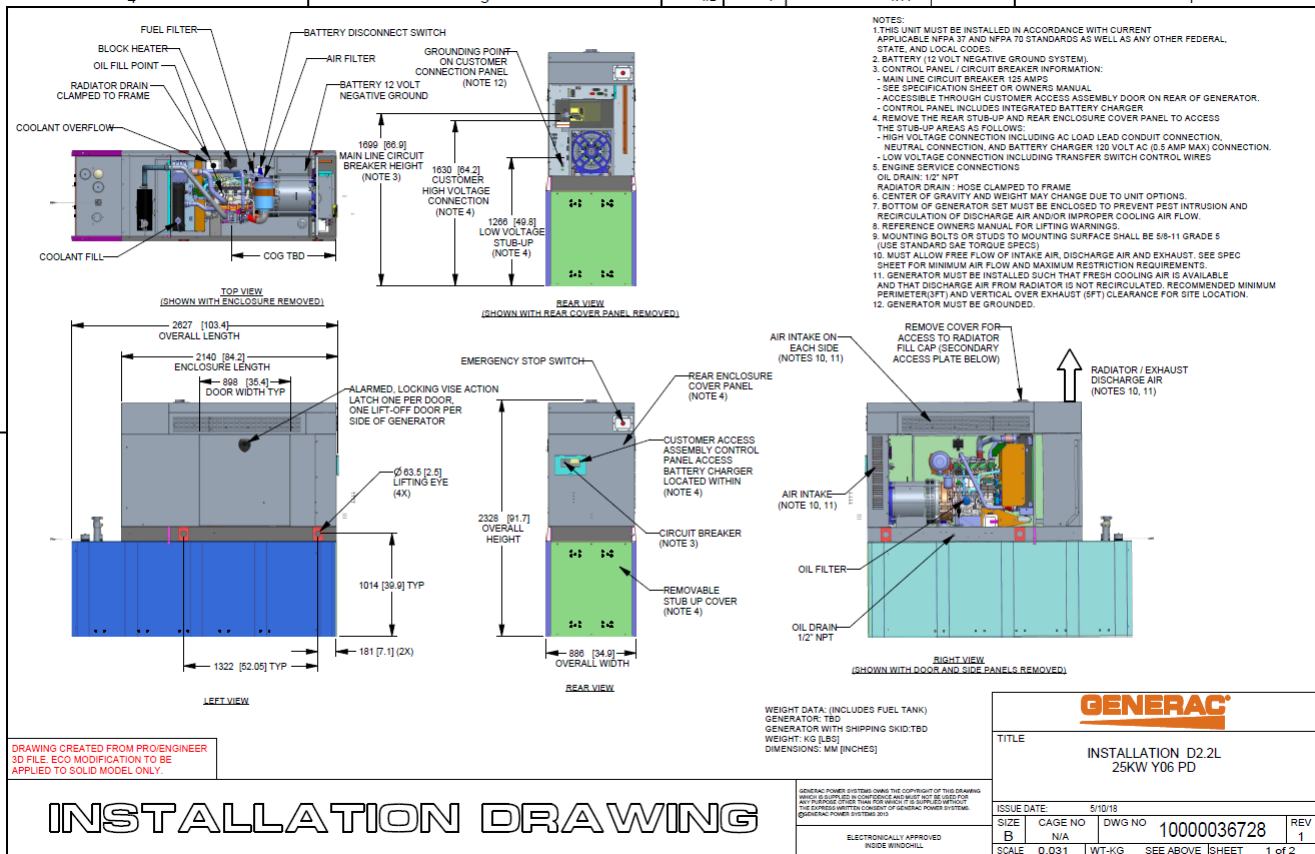
The RD025 will come with a RXSC200A3 and an Evollution controller. The sites considered for the RD025 should not have a DC power consumption above 20kW

RXSC200A3 [Link](#)

RXSC200A3 install drawing [Link](#)

Evolution controller spec sheet [Link](#)

RD025 installation drawings and supporting documentation [Link](#)

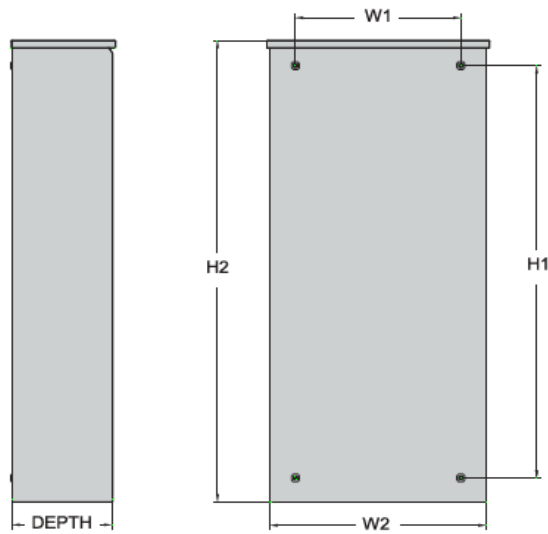


3.2 RXSC200A3 Automatic Transfer Switch

The RXSC200A3 (Automatic Transfer Switch) is equipped with the following functions. Utility voltage drop-out <65%. Timer to Generator start: 10 second factory set, adjustable between 2-1500 seconds. Engine Warm up delay: 5 seconds. Standby Voltage Sensor: 65% for 5 seconds. Utility Voltage Pickup >80%. Re-Transfer Time Delay: 15 seconds. Engine Cool-Down Timer: 60 seconds. Exerciser: 5 or 12 minute adjustable weekly/by-weekly/monthly. The transfer switch can also be operated manually without power applied

RXSC200A3 Dimensions

Model		RXSC200A3
Height (in./mm)	H1	17.24/437.9
	H2	20/508
Width (in./mm)	W1	12.5/317.5
	W2	14.6/370.8
Depth (in./mm)		7.09/180.1
Weight (lbs./kilos)		20/9.07



4 Architecture/Alarms

4.1 Interfaces and Alarming

The generator will be monitored by external alarms, conduit and cat five cables have to be installed from the Evolution Controllers Low Voltage Box located in the Generac generator to the appropriate cell site equipment. Nokia FSEB or FSEE and in Ericsson the SAU.

At a Nokia site, this connection is at the FSEB or an FSEE module. For the wiring diagram and instructions for the FSEB click the [Link](#). (The FSEE is the Nokia module that will be replacing the FSEB. For details on the FSEE contact: HQNokiaCellsiteDesigns@T-Mobile.com)

Ericsson sites will connect to the SAU module via OVP Expansion Kit for 8 External Alarms. Product number: UTOVP-ALM8EXP. For the wiring diagram and instructions for this click the [link](#).

The RXSC200A3 has auxiliary contacts that will facilitate the *ATS in Emergency position* alarm and will be a Normally Closed contact. Below is the wiring schematic for this contact and it can be found in the RXSC200A3 owners manual.

Auxiliary Contact

See [Figure 3-4](#). If desired, there is one normally-closed Auxiliary Contact (A) on the transfer switch to operate customer accessories, remote advisory lights, or remote annunciator devices. A suitable power source must be connected to the common terminal. If needed, an extra auxiliary contact can be added.

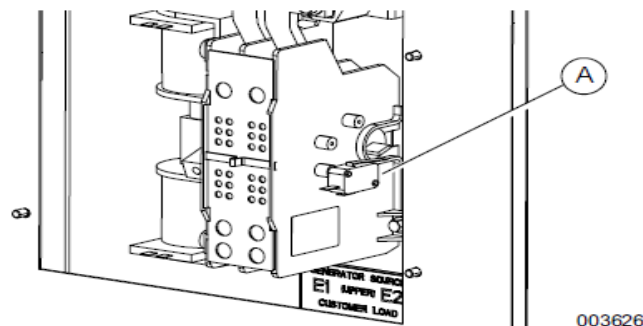


Figure 3-4. Auxiliary Contact

The auxiliary contact is normally closed when the transfer switch is in utility mode. The contacts will open when the transfer switch is in the standby power mode.

NOTE: Auxiliary Contact is rated 10 amps at 125 or 250 volts AC, and 0.6 amps at 125 volts DC.

CAUTION

Equipment damage. Exceeding rated voltage and current will damage the auxiliary contacts. Verify that voltage and current are within specification before energizing this equipment.

(000134a)

Evolution Controller Customer Connections	Nokia FSEB Alarm Connections 13-24	T-Mobile Standard Alarms
NC#8-Gen Running	NC 4110 grd 4111 pin 13	Generator Running
NC#11-Not In Auto	NC 4110 grd 4111 pin 14	Generator Alarm Critical
NC#2-Door Alarm	NC 4110 grd 4111 pin 15	Generator Alarm NSI
NC#5-Low Fuel	NC 4110 grd 4111 pin 16	Low Fuel
RXSC200A3-Auxiliary Contacts	NC 4110 grd 4111 pin 17	ATS in Emergency Position

Evolution Controller Customer Connections	Ericsson Alarm 8expConnections	T-Mobile Standard Alarms
NC#8- Gen. Running	NC - A5	Generator Running
NC#11-Not In Auto	NC - A6	Generator Alarm Critical
NC#2-Door Alarm	NC - A7	Generator Alarm NSI
NC#5-Low Fuel	NC - A8	Low Fuel
RXSC200A3-Auxiliary Contacts	NC - A9	ATS in Emergency Position

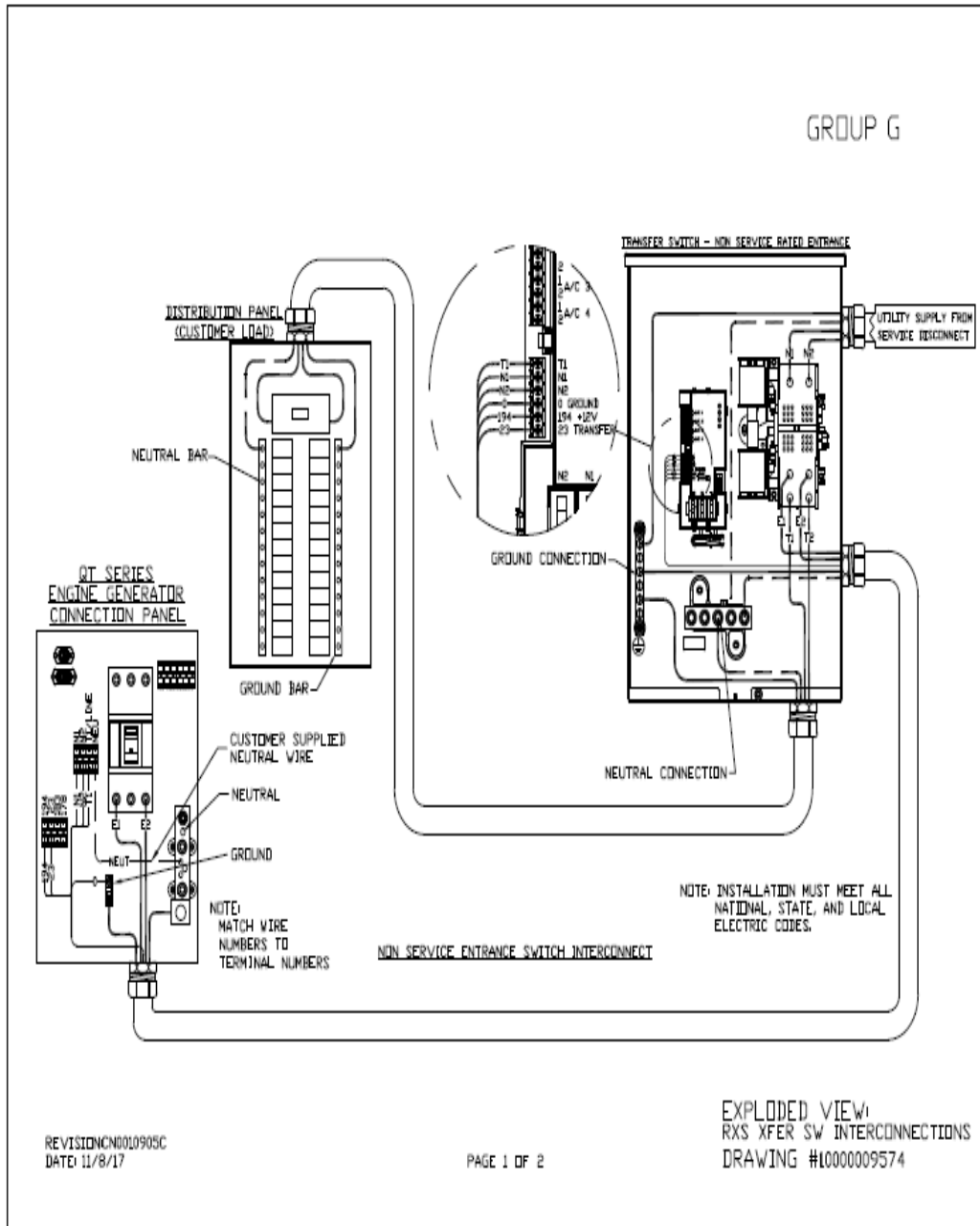
5 Regulatory Requirements

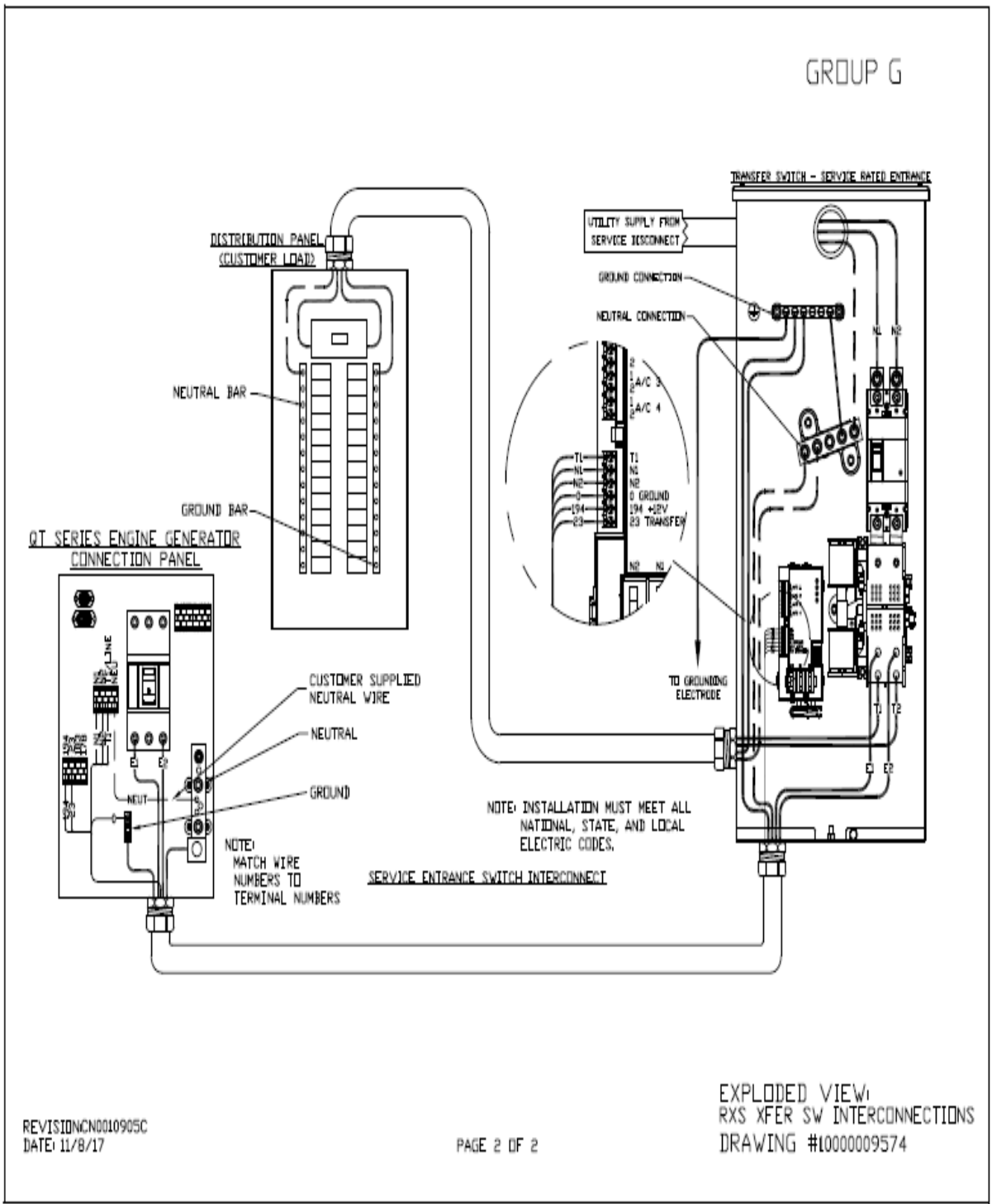
Level 2 Acoustic Enclosure provides a noise level of 67.5dBA. It is EPA certified and meets NFPA 99 and 110 requirements(NFPA National Fire Protection Association). The RD025 generator engines is a tier 4 engine and meets the EPA final standards.

6 Configuration/Diagrams

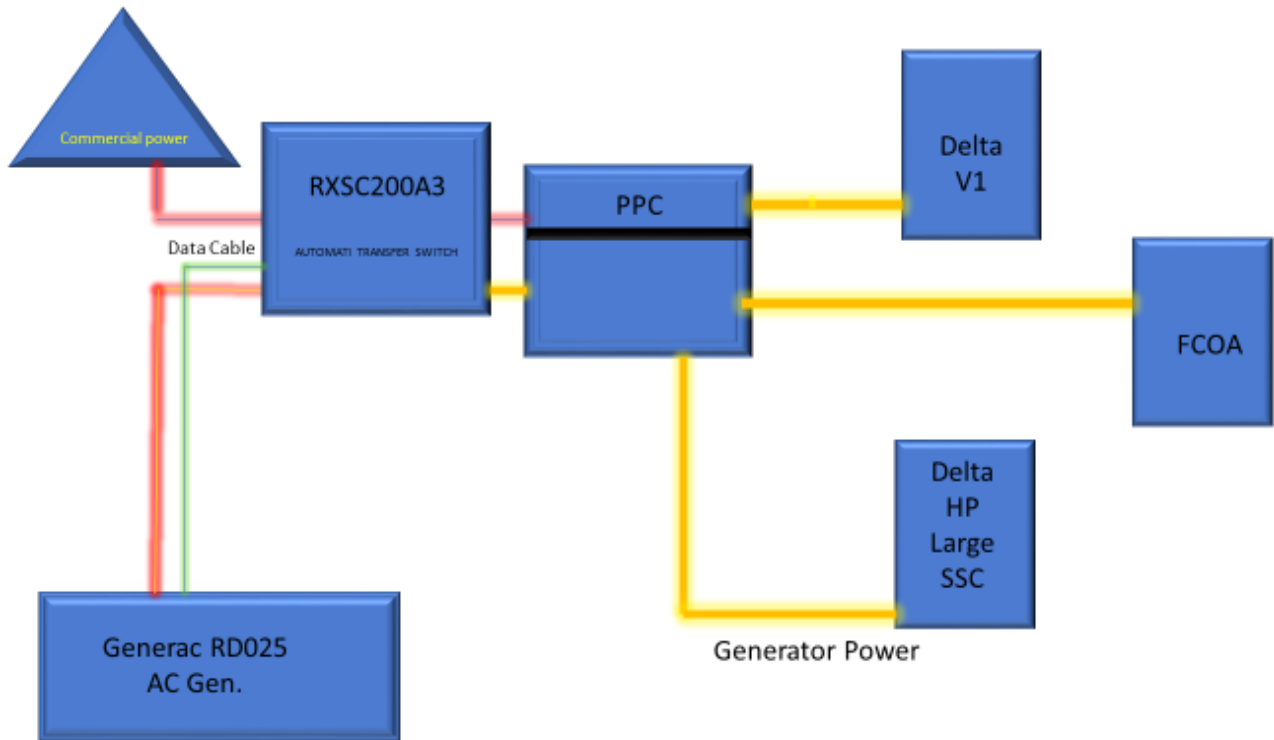
The physical configuration of the Generator and the RXSC200A3 is, ATS before the PPC to ensure overcurrent protection when commercial power is restored. The RD025 and the RXSC200A3 has to be wired to Commercial AC power.

Commercial Power Connection Points
On The RXSC200A3





Compound Diagram:



7 Maintenance

T-Mobile is recommending preventive maintenance to be performed every 250 hours of run-time or every 12 months, whichever comes first.


T-Mobile requires this minimum service checklist for the generator engine:

- Check engine mounts and support. Tighten fasteners.
- Check all the engine hoses and clamps for proper fit, and any signs of cracking and fatigue from wear.
- Inspect all belts for signs of cracking and fatigue from wear and adjust for proper tension.
- Inspect the exhaust system for leaks, burns and wet stacking. Drain exhaust line and tighten any clamps and flange bolts.
- Inspect silencer and plumbing for leaks, cracks or any other signs of wear.
- Inspect the system for fuel, oil and coolant leaks and signs of corrosion.
- Replace water separator.
- Replace water filter/ conditioner.
- Check Anti-Freeze (Spector-Analysis).
- Check coolant level and add, if needed.
- Inspect radiator mounting for signs or wear and cracking.
- Inspect/ clean air filter and change per manufacturer specifications.
- Inspect air intakes and outlets and tighten clamps and brackets, if applicable.
- Replace fuel filter.
- Inspect the carburetor fuel injection system, fuel injection pump and choke, if equipped. Adjust to manufacturers specifications.
- Change engine oil, oil filter and record the date on the filter casing.
- Check engine heater operation, if equipped.
- Check and adjust the battery charger operations, and charge rate within the manufacturer's recommended operating specifications.

- Inspect the battery housing, hardware connections, and cables for corrosion and wear.
- Check the battery electrolyte levels and specific gravity levels.
- Load test generator battery.
- Check, adjust and record generator output voltage, as necessary.
- Check and record the alternator charge rate.
- During inspection run the generator for 30 minutes under load. During this time, and after the engine is at full operational speed and has reached engine operating temperature; determine and record the condition of all inspection points: oil pressure, water/ coolant temperature, Fuel pressure, generator gauge, indicator operations, generator battery.
- Check the engine timing and adjust to manufacturers specifications, if necessary.
- Inspect, adjust and record governor and frequency, if necessary.
- Verify that the low fuel alarm is operational and configured correctly to trigger when the fuel tank reaches 50% of fuel tank capacity.

Check fuel level and refuel the generator during the preventive/ corrective maintenance visit.

Exhibit E



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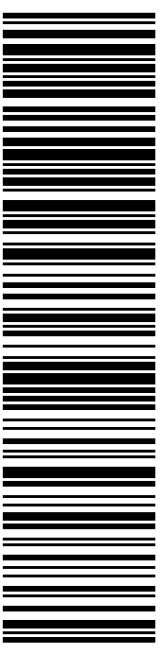
PRIORITY MAIL 2-DAY™

Expected Delivery Date: 09/07/21
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C006

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 CT SITING COUNCIL
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Ship Date: 09/03/2021	
Expected Delivery Date: 09/07/2021	

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 NORTHEAST SITE SOLUTIONS
 420 MAIN ST
 STE 1
 STURBRIDGE MA 01566-1359

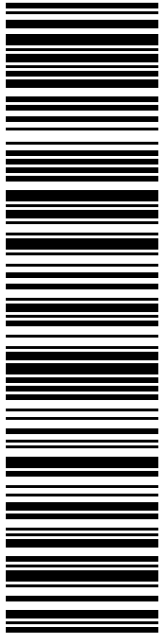
To: LISA MATTHEWS
 CT SITING COUNCIL
 10 FRANKLIN SQ
 NEW BRITAIN CT 06051-2655

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 FIRST SELECTMAN-GREENWICH
 101 FIELD POINT RD
 GREENWICH CT 06830-6463

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 Flat Rate Env
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usps.com
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5. Mail your package on the "Ship Date" you selected when creating this label.

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Trans. #: 542704895	Priority Mail® Postage: \$7.95
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Ship Date: 09/03/2021	
Expected Delivery Date: 09/07/2021	

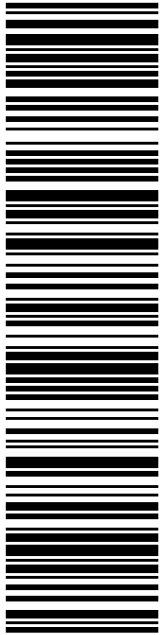
From: DEBORAH CHASE Ref#: 1001B-NHP
 NORTHEAST SITE SOLUTIONS
 420 MAIN ST
 STE 1
 STURBRIDGE MA 01566-1359

To: FRED CAMILLO
 FIRST SELECTMAN-GREENWICH
 101 FIELD POINT RD
 GREENWICH CT 06830-6463

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Electronic Rate Approved #038555749

SHIP TO: KATIE DELUCA
 PLANNING & ZONING-ZEO-TOWN PLANNER
 101 FIELD POINT RD
 GREENWICH CT 06830-6463

DEBORAH CHASE
 NORTHEAST SITE SOLUTIONS
 420 MAIN ST
 STE 1
 STURBRIDGE MA 01566-1359

Expected Delivery Date: 09/07/21
 Ref#: 1001B-NHP
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C027

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1. Each Click-N-Ship® label is unique. Labels are to be used as printed and used only once. DO NOT PHOTO COPY OR ALTER LABEL.
2. Place your label so it does not wrap around the edge of the package.
3. Adhere your label to the package. A self-adhesive label is recommended. If tape or glue is used, DO NOT TAPE OVER BARCODE. Be sure all edges are secure.
4. To mail your package with PC Postage®, you may schedule a Package Pickup online, hand to your letter carrier, take to a Post Office™, or drop in a USPS collection box.
5. Mail your package on the "Ship Date" you selected when creating this label.

Click-N-Ship® Label Record

USPS TRACKING # :
9405 5036 9930 0493 1158 60

Trans. #: 542704895	Priority Mail® Postage: \$7.95
Print Date: 09/02/2021	Total: \$7.95
Ship Date: 09/03/2021	
Expected Delivery Date: 09/07/2021	

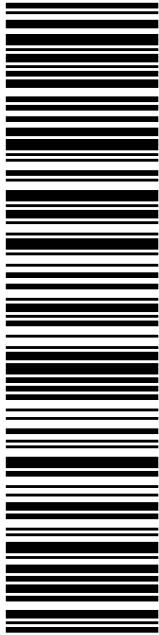
From: DEBORAH CHASE Ref#: 1001B-NHP
 NORTHEAST SITE SOLUTIONS
 420 MAIN ST
 STE 1
 STURBRIDGE MA 01566-1359

To: KATIE DELUCA
 PLANNING & ZONING-ZEO-TOWN PLANNER
 101 FIELD POINT RD
 GREENWICH CT 06830-6463

* Retail Pricing Priority Mail rates apply. There is no fee for USPS Tracking® service on Priority Mail service with use of this electronic rate shipping label. Refunds for unused postage paid labels can be requested online 30 days from the print date.



Thank you for shipping with the United States Postal Service!
 Check the status of your shipment on the USPS Tracking® page at usps.com



USPS TRACKING #

9405 5036 9930 0493 1158 84

Electronic Rate Approved #038555749

SHIP

TO: CHRIS GELINAS
EVERSOURCE
107 SELDEN ST
BERLIN CT 06037-1616


P

PRIORITY MAIL 2-DAY™

DEBORAH CHASE
NORTHEAST SITE SOLUTIONS
420 MAIN ST
STE 1
STURBRIDGE MA 01566-1359

Expected Delivery Date: 09/07/21
Ref#: 1001B-NHP
0000

C015



Click-N-Ship®

U.S. POSTAGE PAID
click-n-ship®

usps.com 9405 5036 9930 0493 1158 84 0079 5000 0010 6037
US POSTAGE \$7.95
Flat Rate Env
09/03/2021 Mailed from 01566



Cut on dotted line.

Instructions

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USPS TRACKING # :
9405 5036 9930 0493 1158 84

Trans. #: 542704895	Priority Mail® Postage: \$7.95
Print Date: 09/02/2021	Total: \$7.95
Ship Date: 09/03/2021	
Expected Delivery Date: 09/07/2021	

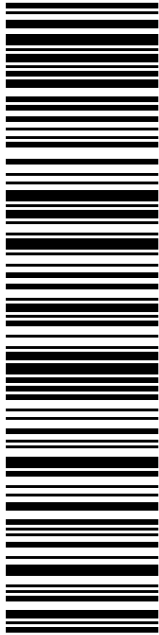
From: DEBORAH CHASE Ref#: 1001B-NHP
NORTHEAST SITE SOLUTIONS
420 MAIN ST
STE 1
STURBRIDGE MA 01566-1359

To: CHRIS GELINAS
EVERSOURCE
107 SELDEN ST
BERLIN CT 06037-1616

* Retail Pricing Priority Mail rates apply. There is no fee for USPS Tracking® service on Priority Mail service with use of this electronic rate shipping label. Refunds for unused postage paid labels can be requested online 30 days from the print date.



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USPS TRACKING #

9405 5036 9930 0493 1159 07

Electronic Rate Approved #038555749

SHIP TO: JOHN A VITALE
CT DEPT OF TRANSPORTATION
4 BREWERY ST
NEW HAVEN CT 06511-5957

P

usps.com 9405 5036 9930 0493 1159 07 0079 5000 0010 6511
US POSTAGE
 Flat Rate Envoy

09/03/2021 Mailed from 01566


U.S. POSTAGE PAID
click-n-ship®

PRIORITY MAIL 2-DAY™

DEBORAH CHASE
NORTHEAST SITE SOLUTIONS
420 MAIN ST
STE 1
STURBRIDGE MA 01566-1359

Expected Delivery Date: 09/07/21
Ref#: 1001B-NHP
0000

C046



Click-N-Ship®



Cut on dotted line.

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Click-N-Ship® Label Record

USPS TRACKING # :
9405 5036 9930 0493 1159 07

Trans. #: 542704895	Priority Mail® Postage: \$7.95
Print Date: 09/02/2021	Total: \$7.95
Ship Date: 09/03/2021	
Expected Delivery Date: 09/07/2021	

From: DEBORAH CHASE Ref#: 1001B-NHP
 NORTHEAST SITE SOLUTIONS
 420 MAIN ST
 STE 1
 STURBRIDGE MA 01566-1359

To: JOHN A VITALE
 CT DEPT OF TRANSPORTATION
 4 BREWERY ST
 NEW HAVEN CT 06511-5957

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10013-NHP



FISKDALE
458 MAIN ST
FISKDALE, MA 01518-9998
(800)275-8777

09/10/2021 10:55 AM

Product Qty Unit Price

Prepaid Mail 1 \$0.00
Berlin, CT 06037
Weight: 0 lb 8.30 oz
Acceptance Date:
Fri 09/10/2021
Tracking #:
9405 5036 9930 0493 1158 84

Prepaid Mail 1 \$0.00
Greenwich, CT 06830
Weight: 0 lb 8.10 oz
Acceptance Date:
Fri 09/10/2021
Tracking #:
9405 5036 9930 0493 1158 60

Prepaid Mail 1 \$0.00
New Haven, CT 06511
Weight: 0 lb 8.10 oz
Acceptance Date:
Fri 09/10/2021
Tracking #:
9405 5036 9930 0493 1159 07

Prepaid Mail 1 \$0.00
Greenwich, CT 06830
Weight: 0 lb 8.10 oz
Acceptance Date:
Fri 09/10/2021
Tracking #:
9405 5036 9930 0493 1158 46

Grand Total: \$0.00
