

Northeast Site Solutions Victoria Masse 420 Main St Unit 1 Box 2 Sturbridge, MA 01566 victoria@northeastsitesolutions.com

February 24, 2022

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

RE: Notice of Exempt Modification

63-80 Woodland St. Glastonbury, CT 06073

Latitude: 41.66418800 Longitude: -72.57172500

T-Mobile Site#: CTHA026A NHP

### Dear Ms. Bachman:

T-Mobile currently has nine (9) antennas at the 146-foot level of the existing 150-foot tower. The property is owned by Paul L Cavanna and the Tower is owned by T-Mobile. T-Mobile now intends to add a 48Kw generator to an existing concrete pad within a fenced compound.

# Planned Modifications:

Ground work only-Install New:

(1) GENERAC RD 48KW AC DIESEL GENERATOR – 233-gallon double walled self-contained tank with fuel sensor. Requires two

(2) 12-minute run cycles bi-weekly.

This facility was approved by the Connecticut Siting Council, Docket No. 478 on March 29, 2018. This modification complies with this original approval. 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.S.C.A. § 16-50j-73, a copy of this letter is being sent to Mr. Richard J. Johnson, Town Manager, Rebecca Augur, Director of Planning & Land Use Services for the Town of Glastonbury, as well as the property 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,

Victoria Masse

Mobile: 860-306-2326 Fax: 413-521-0558

Victoria Masse

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

Email: victoria@northeastsitesolutions.com

Attachments cc: Mr. Richard J. Johnson, Town Manager Town of Glastonbury 2155 Main Street Glastonbury, CT 06033

Rebecca Augur, Director of Planning & Land Use Services Town of Glastonbury 2155 Main Street Glastonbury, CT 06033

Paul L Cavanna- property owner 80 Woodland St. S Glastonbury, CT 06073

# Exhibit A

#### **Decision and Order**

Pursuant to Connecticut General Statutes §16-50p, and the foregoing Findings of Fact and Opinion, the Connecticut Siting Council (Council) finds that the effects associated with the construction, maintenance, and operation of a telecommunications facility, including effects on the natural environment, ecological balance, public health and safety, scenic, historic, and recreational values, agriculture, forests and parks, air and water purity, and fish, aquaculture and wildlife are not disproportionate, either alone or cumulatively with other effects, when compared to need, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application, and therefore directs that a Certificate of Environmental Compatibility and Public Need, as provided by General Statutes § 16-50k, be issued to Eco-Site, Inc., hereinafter referred to as the Certificate Holder, for a telecommunications facility at 63 Woodland Street, Glastonbury, Connecticut.

Unless otherwise approved by the Council, the facility shall be constructed, operated, and maintained substantially as specified in the Council's record in this matter, and subject to the following conditions:

- 1. The tower shall be constructed either as a monopine or monopole at a height of 150 feet above ground level (excluding faux monopine branches) to provide the proposed wireless services, sufficient to accommodate the antennas of T-Mobile Northeast, LLC, the Town of Glastonbury, and other entities, both public and private. The height of the tower may be extended after the date of this Decision and Order pursuant to regulations of the Federal Communications Commission. Prior to submission of the Development and Management Plan to the Council, the Certificate Holder shall consult with the Town of Glastonbury in regards to the Town's emergency communication equipment needs and the appropriateness of a monopine design based on those needs. The final tower design, either a monopole or monopine, shall be determined after this consultation.
- 2. The Certificate Holder shall prepare a Development and Management (D&M) Plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of Connecticut State Agencies. The D&M Plan shall be served on the Town of Glastonbury for comment, and all parties and intervenors as listed in the service list, and submitted to and approved by the Council prior to the commencement of facility construction and shall include:
  - a) final site plan(s) for development of the facility that employ the governing standard in the State of Connecticut for tower design in accordance with the currently adopted International Building Code and include specifications for the tower, tower foundation, antennas, and equipment compound including, but not limited to, fencing, radio equipment, access road, utility line, and emergency backup power source;
  - b) construction plans for site clearing, grading, utility installation, water drainage and stormwater control, and erosion and sedimentation controls consistent with the <u>2002 Connecticut</u> Guidelines for Soil Erosion and Sediment Control, as amended;
  - c) schedule for deployment of T-Mobile Northeast LLC's, and the Town of Glastonbury's equipment; and
  - d) hours of construction.

- 3. Prior to the commencement of operation, the Certificate Holder shall provide the Council worst-case modeling of the electromagnetic radio frequency power density of all proposed entities' antennas at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin No. 65, August 1997. The Certificate Holder shall ensure a recalculated report of the electromagnetic radio frequency power density be submitted to the Council if and when circumstances in operation cause a change in power density above the levels calculated and provided pursuant to this Decision and Order.
- 4. Upon the establishment of any new federal radio frequency standards applicable to frequencies of this facility, the facility granted herein shall be brought into compliance with such standards.
- 5. The Certificate Holder shall permit public or private entities to share space on the proposed tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing.
- 6. Unless otherwise approved by the Council, if the facility authorized herein is not fully constructed with at least one fully operational wireless telecommunications carrier providing wireless service within eighteen months from the date of the mailing of the Council's Findings of Fact, Opinion, and Decision and Order (collectively called "Final Decision"), this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made. The time between the filing and resolution of any appeals of the Council's Final Decision shall not be counted in calculating this deadline. Authority to monitor and modify this schedule, as necessary, is delegated to the Executive Director. The Certificate Holder shall provide written notice to the Executive Director of any schedule changes as soon as is practicable.
- 7. Any request for extension of the time period referred to in Condition 6 shall be filed with the Council not later than 60 days prior to the expiration date of this Certificate and shall be served on all parties and intervenors, as listed in the service list, and the Town of Glastonbury.
- 8. If the facility ceases to provide wireless services for a period of one year, this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council within 90 days from the one year period of cessation of service. The Certificate Holder may submit a written request to the Council for an extension of the 90 day period not later than 60 days prior to the expiration of the 90 day period.
- 9. Any nonfunctioning antenna, and associated antenna mounting equipment, on this facility shall be removed within 60 days of the date the antenna ceased to function.
- 10. In accordance with Section 16-50j-77 of the Regulations of Connecticut State Agencies, the Certificate Holder shall provide the Council with written notice two weeks prior to the commencement of site construction activities. In addition, the Certificate Holder shall provide the Council with written notice of the completion of site construction, and the commencement of site operation.
- 11. The Certificate Holder shall remit timely payments associated with annual assessments and invoices submitted by the Council for expenses attributable to the facility under Conn. Gen. Stat. §16-50v.

- 12. This Certificate may be transferred in accordance with Conn. Gen. Stat. §16-50k(b), provided both the Certificate Holder/transferor and the transferee are current with payments to the Council for their respective annual assessments and invoices under Conn. Gen. Stat. §16-50v. In addition, both the Certificate Holder/transferor and the transferee shall provide the Council a written agreement as to the entity responsible for any quarterly assessment charges under Conn. Gen. Stat. §16-50v(b)(2) that may be associated with this facility.
- 13. The Certificate Holder shall maintain the facility and associated equipment, including but not limited to, the tower, tower foundation, antennas, equipment compound, radio equipment, access road, and utility line in a reasonable physical and operational condition that is consistent with this Decision and Order and a Development and Management Plan to be approved by the Council.
- 14. If the Certificate Holder is a wholly-owned subsidiary of a corporation or other entity and is sold/transferred to another corporation or other entity, the Council shall be notified of such sale and/or transfer and of any change in contact information for the individual or representative responsible for management and operations of the Certificate Holder within 30 days of the sale and/or transfer.
- 15. This Certificate may be surrendered by the Certificate Holder upon written notification and approval by the Council.

We hereby direct that a copy of the Findings of Fact, Opinion, and Decision and Order be served on each person listed in the Service List, dated October 26, 2017, and notice of issuance published in the <u>Hartford Courant</u>.

By this Decision and Order, the Council disposes of the legal rights, duties, and privileges of each party named or admitted to the proceeding in accordance with Section 16-50j-17 of the Regulations of Connecticut State Agencies.

# Exhibit B



# Owner of Record

GIS ID: 78000063

Owner: CAVANNA PAUL J

Co-Owner:

Address: 80 WOODLAND ST

City, State ZIP: S GLASTONBURY, CT 06073-2715

Parcel Information

Map/Street/Lot G11 / 7800 / W0002 **Property ID:** 1451 **Developer Lot ID:** Water: Well Parcel Acreage: 177.10 Sewer: Septic **Zoning Code:** RR **Census:** 5205.02

**Valuation Summary** 

Item	Appraised Value	Assessed Value
Buildings	251100	175700
Land	3470000	694500
Appurtenances	93900	65700
Total	3815000	935900

Account Number: 78000063

Property Address: 63-65 WOODLAND ST



Property highlighted in blue



Owner of Record	Deed / Page	Sale Date	Sale Price
CAVANNA PAUL J	0973/0350	1995-11-20	0
CAVANNA GEORGE A ESTATE	0894/0253	1994-08-25	0
CAVANNA GEORGE A	0071/0372	1943-08-08	0





Report Generated 9/28/2021 9:50:38 AM

Building Information

Year Constructed: 1800

Number of Rooms: 7

Building Type: Residential

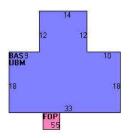
Style: Century+

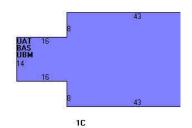
Occupany: Single Family

Number of Half-Baths: 0

Style: Occupany: Stories: **Exterior Wall:** Vinyl **Building Zone:** Interior Wall: RR Drywall **Interior Floor: Roof Type:** Carpet Gable **Roof Material:** Asphalt Shingl Interior Floor #2: No entry Est. Gross S.F.: Air Conditioning Type: None 2614 Est. Living S.F.: **Heat Type:** 1628 Hot Water Fuel Type: Oil







Subarea Type	Est. Gross S.F.	Est. Living S.F.	Outbuilding Type	Est. Gross S.F. Comments
First Floor	814	814	Barn 1story	375.00
Porch, Enclosed	32	0	Barn 1story	960.00
Porch, Open	140	0	Barn 1story	4000.00
Upper Story, Finished	814	814	Barn w/Loft	1250.00
Slab	264	0	Lean-to	864.00
Basement	550	0	Patio-Concrete	66.00
First Floor	762	762	Shed-Wood/Comp	117.00

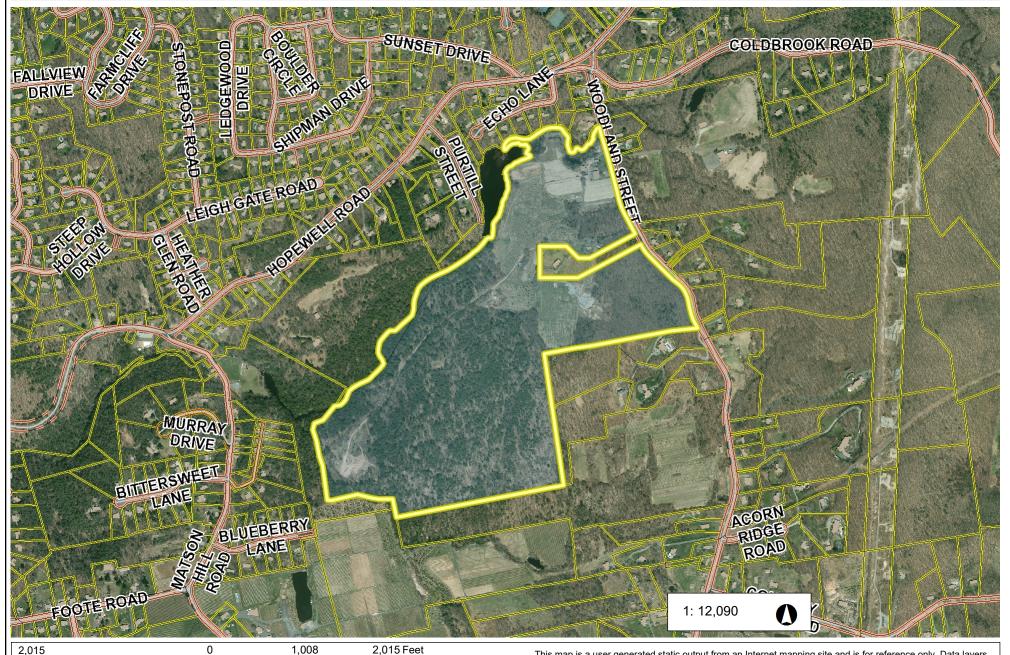


# Town of Glastonbury GIS Parcel Report

Report Generated 9/28/2021 9:50:38 AM 25 0 Shed-Wood/Comp Porch, Open 48.00 Basement 762 0 Shed-Wood/Comp 176.00 First Floor 1514 1514 Shed-Wood/Comp 192.00 Attic, Unfinished 1514 0 Wood Deck 192.00 Basement 1514 0



# Town of Glastonbury GIS



NAD\_1983\_StatePlane\_Connecticut\_FIPS\_0600\_Feet © Town of Glastonbury GIS

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. The Town of Glastonbury and the mapping companies assume no legal responsibility for the information contained in this data.

# Exhibit C

# UPGRADE OF EXISTING WIRELESS FACILITY BY:

# T··Mobile·

T-MOBILE NORTHEAST LLC

PROJECT TITLE: NATIONAL HARDENING

**SITE NUMBER: CTHA026A** 

SITE ADDRESS: 63-80 WOODLAND STREET GLASTONBURY, CT 06073

ECO-SITE: GLASTONBURY CT-0007A

# **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.

DEVELOPMENT AND USE OF THE SITE WILL CONFORM TO ALL APPLICABLE CODES, ORDINANCES AND SPECIFICATIONS.

### **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

NATIONAL ELECTRICAL CODE (NEC) FOR POWER AND GROUNDING REQUIREMENTS.

OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA).

NFPA - NATIONAL FIRE PROTECTION ASSOCIATION



1-800-922-4455

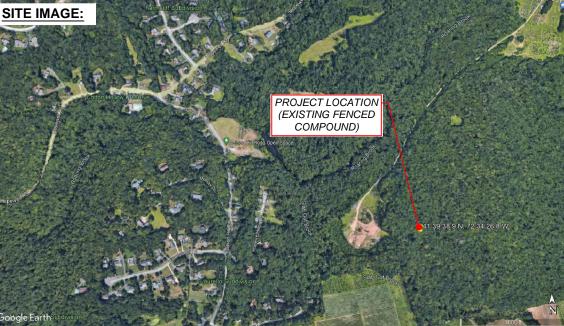
Advance Notice: Minimum of 2 working days in advance, no more than 30 days in advance

#### CONTRACTOR'S NOTES:

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.

# **APPROVALS:**

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



# SITE MAP PROJECT LOCATION (EXISTING FENCED COMPOUND)

# PROJECT SCOPE:

THE PROPOSED PROJECT SCOPE CONSISTS OF INSTALLATION OF A NEW GENERAC 48 KW AC DIESEL GENERATOR AND TANK FOR AN EXISTING TELECOM BASE STATION. NO SIGNIFICANT GRADING IS REQUIRED AND ALL PROPOSED CONSTRUCTION WILL BE CONTAINED WITHIN THE LIMITS OF THE EXISTING TOWER SITE LEASE AREA.

# PROJECT INFORMATION:

ADDRESS: 63-80 WOODLAND STREET

GLASTONBURY, CT 06073

ZONING DISTRICT: RURAL RESIDENCE - AGRICULTURAL PARCEL ID: PRIMARY USE: G11/7800/W0002 PID 1451 EXISTING TELECOMMUNICATIONS TOWER

COORDINATES 41° 39' 38.9" N, 72° 34' 26.8" W

GROUND FLEV 319'± (AMSL)

# **PROJECT TEAM:**

APPLICANT: T-MOBILE NORTHEAST, LLC.

35 GRIFFIN ROAD SOUTH BLOOMFIELD, CT 06002

860-692-7100

PROPERTY OWNER PAUL CAVANNA 80 WOODI AND STREET

GLASTONBURY, CT 06073

TOWER OWNER

ECO-SITE 240 LEIGH FARM ROAD DURHAM, NC 27707

NORTHEAST SITE SOLUTIONS 420 MAIN STREET, BLDG 4 PROJECT MANAGER

SHELDON FREINCLE SHELDON@NORTHEASTSITESOLUTIONS.COM

201-776-8521

**ENGINEERING CONSULTANTS:** FORESITE LLC

462 WAI NUT ST NEWTON MA 02460 SAEED MOSSAVAT

SMOSSAVAT@FORESITELLC.COM

617-212-3123

# **SHEET INDEX:**

TITLE SHEET

GENERAL NOTES SITE LOCATION MAP

A-2

SITE PLAN

**GENERATOR SPECIFICATIONS** 

GENERATOR SPECIFICATIONS AUTOMATIC TRANSFER SWITCH SPECIFICATIONS

ELECTRICAL DETAILS

APPLICANT:

# T - Mobile T-MOBILE NORTHEAST LLC

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



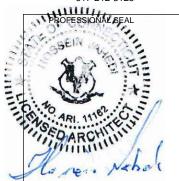


STURBRIDGE, MA 01566 203-275-6669

#### CONSULTANT:



462 WALNUT STREET, SUITE 1 NEWTON, MA 02460 617-212-3123



THIS DOCUMENT IS THE DESIGN PROPERTY AND COPYRIGHT OF FORESITE, LLC, AND FOR THE EXCLUSIVE USE BY THE TITLE CLIENT. DUPLICATION OR USE WITHOUT THE EXPRESS WRITTEN CONSENT OF THE CREATOR IS STRICTLY ROHIBITED, DRAWING SCALES ARE INTENDED FOR 11"x17" SIZE PRINTED MEDIA ONLY. ALL OTHER PRINTED SIZES ARE DEEMED "NOT TO SCALE".

REV	DESCRIPTION	DATE
А	PRELIMINARY	01/19/22
В	REVISED PER COMMENTS	02/08/22
0	FINAL ISSUED	02/24/22
		J

SITE NUMBER: CTHA026A

ECO-SITE: GLASTONBURY CT-0007A

SITE ADDRESS: 63-80 WOODLAND STREET GLASTONBURY, CT 06073

SHEET TITLE:

T-1: TITLE SHEET

# **GENERAL NOTES:**

- 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.
- 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.
- 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
- 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.
- THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS DURING CONSTRUCTION.
- 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 PROJEC
- 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:
- ASTM: AMERICAN SOCIETY FOR TESTING AND MATERIALS, AS PUBLISHED IN "COMPILATION OF ASTM STANDARDS
- B. AWS: AMERICAN WELDING SOCIETY INC. AS PUBLISHED IN "STANDARD D1.1-08, STRUCTURAL WELDING CODE" OR LATEST EDITION.
- 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:
- BOLTS SHALL BE CONFORMING TO ASTM A325 HIGH STRENGTH, HOT DIP GALVANIZED WITH ASTM A153 HEAVY HEX TYPE NUTS.
- BOLTS SHALL BE 3/4" MINIMUM (UNLESS OTHERWISE NOTED)
- ALL CONNECTIONS SHALL BE 2 BOLTS MINIMUM.
- 12. FABRICATION:
- FABRICATION OF STEEL SHALL CONFORM TO THE AISC AND AWS STANDARDS AND CODES (LATEST EDITION).
- ALL STRUCTURAL STEEL SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 (LATEST EDITION), UNLESS OTHERWISE NOTED
- 13. ERECTION OF STEEL:
- 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.
- 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.
- 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. 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

- SEALING AND CAULKING ALL OPENINGS
- C. PAINTING
- D. CUTTING AND PATCHING
- 15. REQUIREMENTS OF REGULATORY AGENCIES:
- A. FURNISH U.L. LISTED EQUIPMENT WHERE SUCH LABEL IS AVAILABLE. INSTALL IN CONFORMANCE WITH U.L. STANDARDS WHERE APPLICABLE.
- 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.
- 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.
- 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 NORTHEAST LLC

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

#### PROJECT MANAGER

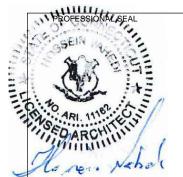


420 MAIN STREET BLDG 4 STURBRIDGE MA 01566 203-275-6669

#### **CONSULTANT:**



462 WAI NUT STREET SUITE 1 NEWTON, MA 02460 617-212-3123



THIS DOCUMENT IS THE DESIGN PROPERTY AND COPYRIGHT OF FORESITE, LLC, AND FOR THE EXCLUSIVE USE BY THE TITLE CLIENT. DUPLICATION OR USE WITHOUT THE EXPRESS WRITTEN CONSENT OF THE CREATOR IS STRICTLY PROHIBITED. DRAWING SCALES ARE INTENDED FOR 11"x17" SIZE PRINTED MEDIA ONLY. ALL OTHER PRINTED SIZES ARE DEEMED "NOT TO SCALE".

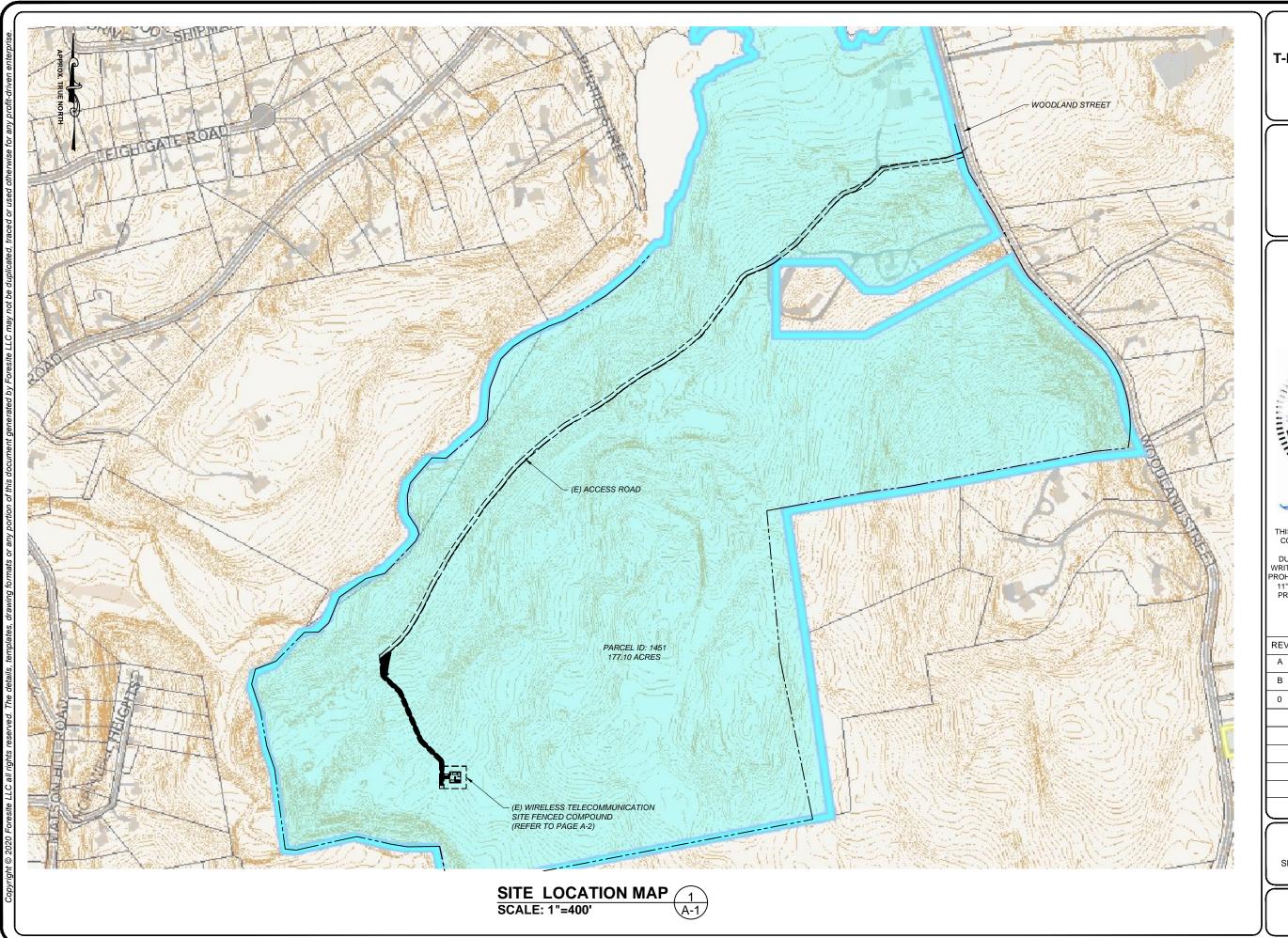
	REV	DESCRIPTION	DATE
	Α	PRELIMINARY	01/19/22
	В	REVISED PER COMMENTS	02/08/22
	0	FINAL ISSUED	02/24/22
ŀ			∣ J

SITE NUMBER: CTHA0264

ECO-SITE: GLASTONBURY CT-0007A

SITE ADDRESS: 63-80 WOODLAND STREET GLASTONBURY, CT 06073

> SHEET TITLE: N-1: GENERAL NOTES



APPLICANT:

# T - Mobile - 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:



462 WALNUT STREET, SUITE 1 NEWTON, MA 02460 617-212-3123



THIS DOCUMENT IS THE DESIGN PROPERTY AND COPYRIGHT OF FORESITE, LLC. AND FOR THE EXCLUSIVE USE BY THE TITLE CLIENT.

DUPLICATION OR USE WITHOUT THE EXPRESS WRITTEN CONSENT OF THE CREATOR IS STRICTLY PROHIBITED. DRAWING SCALES ARE INTENDED FOR 11"x17" SIZE PRINTED MEDIA ONLY. ALL OTHER PRINTED SIZES ARE DEEMED "NOT TO SCALE".

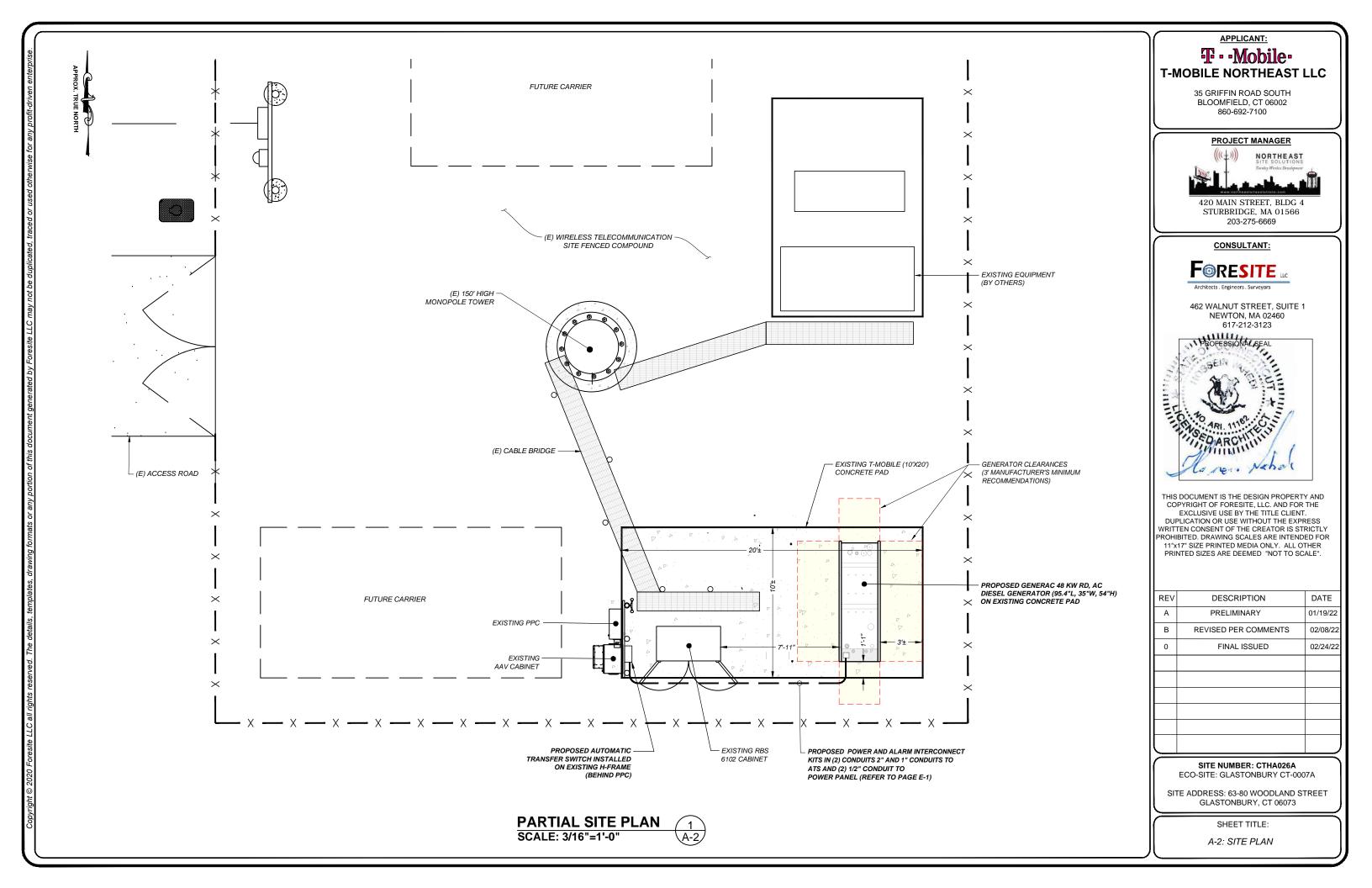
REV	DESCRIPTION	DATE
Α	PRELIMINARY	01/19/22
В	REVISED PER COMMENTS	02/08/22
0	FINAL ISSUED	02/24/22

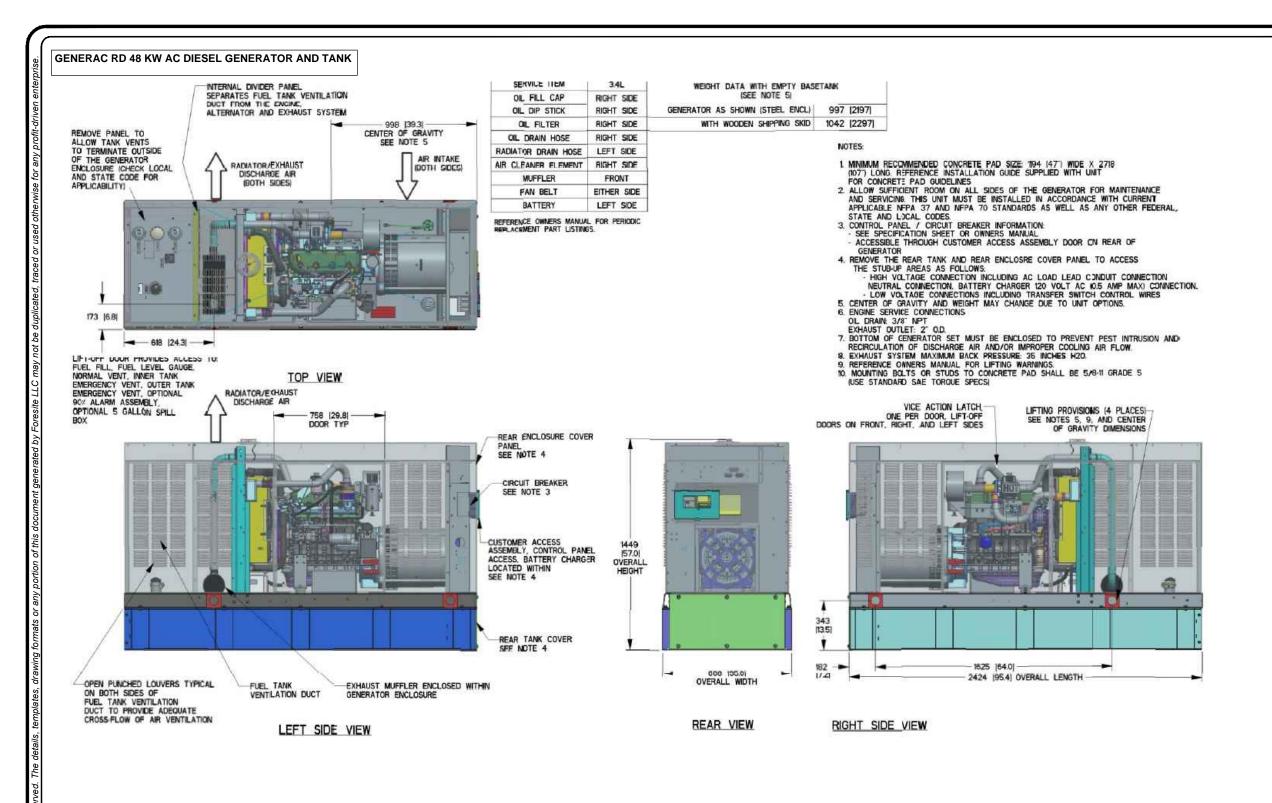
SITE NUMBER: CTHA026A ECO-SITE: GLASTONBURY CT-0007A

SITE ADDRESS: 63-80 WOODLAND STREET GLASTONBURY, CT 06073

SHEET TITLE:

A-1: SITE PLAN





APPLICANT:

# T - Mobile -

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

#### **PROJECT MANAGER**



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

#### **CONSULTANT:**



462 WALNUT STREET, SUITE 1 NEWTON, MA 02460 617-212-3123



THIS DOCUMENT IS THE DESIGN PROPERTY AND COPYRIGHT OF FORESITE, LLC. AND FOR THE EXCLUSIVE USE BY THE TITLE CLIENT. DUPLICATION OR USE WITHOUT THE EXPRESS WRITTEN CONSENT OF THE CREATOR IS STRICTLY PROHIBITED. DRAWING SCALES ARE INTENDED FOR 11"x17" SIZE PRINTED MEDIA ONLY. ALL OTHER PRINTED SIZES ARE DEEMED "NOT TO SCALE".

REV	DESCRIPTION	DATE
Α	PRELIMINARY	01/19/22
В	REVISED PER COMMENTS	02/08/22
0	FINAL ISSUED	02/24/22

SITE NUMBER: CTHA026A ECO-SITE: GLASTONBURY CT-0007A

SITE ADDRESS: 63-80 WOODLAND STREET GLASTONBURY, CT 06073

SHEET TITLE:

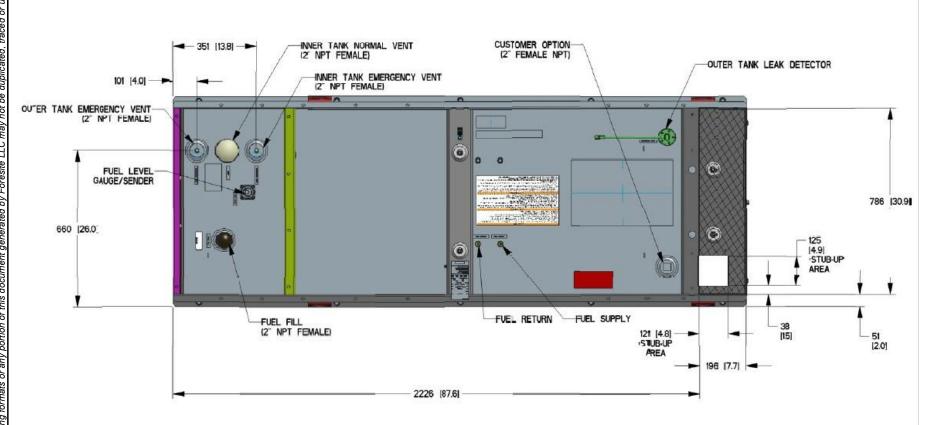
A-3: GENERATOR SPECIFICATIONS

GENERATOR SPECIFICATIONS 1 N.T.S. A-3

CAPACITY: LITER [GALLONS] DIMENSIONS: MM INCH]

THIS TANK IS LISTED TO UL142 AND ULC5801

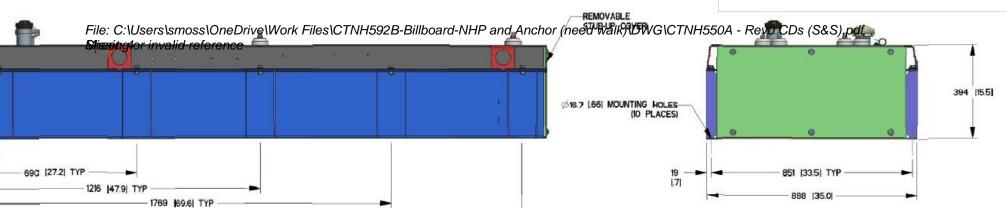
'NOTE - STUB-UP AREA FOR HISH AND LOW VOLTAGE CONNECTIONS. CIRCUIT BREAKER, NEUTRAL AND CUSTOMER CONNECTION OPENING.



2322 [314] TYP

110 [4.3] TYP

NFPA 704 SIGNAGE 2
A-4



GENERATOR SPECIFICATIONS 1 N.T.S. A-4 APPLICANT:

# T - Mobile - T-Mobile - T-Mobile NORTHEAST LLC

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



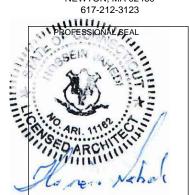


420 MAIN STREET, BLDG 4 STURBRIDGE, MA 01566 203-275-6669

### CONSULTANT:



462 WALNUT STREET, SUITE 1 NEWTON, MA 02460 617-212-3123



THIS DOCUMENT IS THE DESIGN PROPERTY AND COPYRIGHT OF FORESITE, LLC. AND FOR THE EXCLUSIVE USE BY THE TITLE CLIENT.

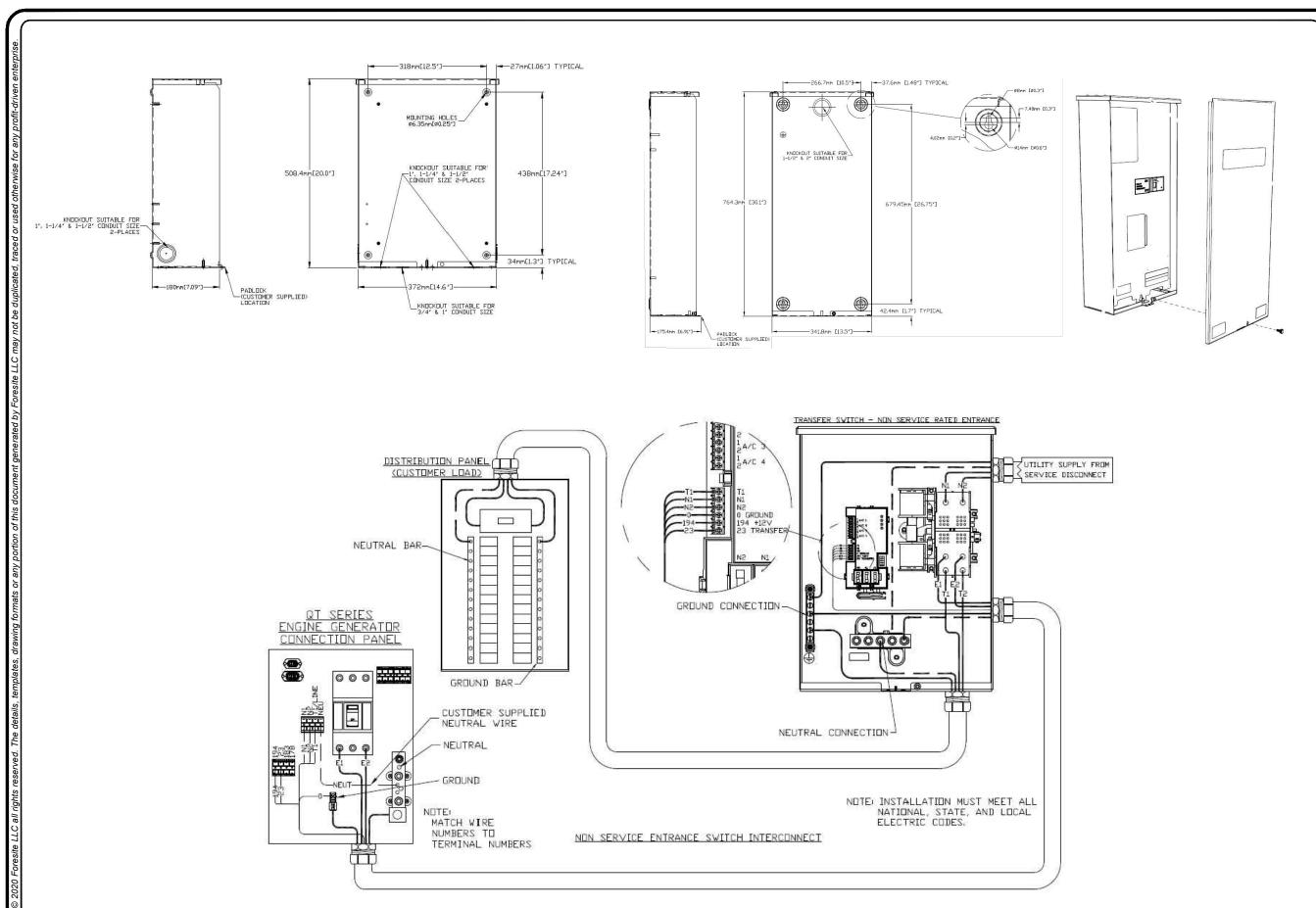
DUPLICATION OR USE WITHOUT THE EXPRESS WRITTEN CONSENT OF THE CREATOR IS STRICTLY PROHIBITED. DRAWING SCALES ARE INTENDED FOR 11"x17" SIZE PRINTED MEDIA ONLY. ALL OTHER PRINTED SIZES ARE DEEMED "NOT TO SCALE".

RE	٧	DESCRIPTION	DATE
А		PRELIMINARY	01/19/22
В		REVISED PER COMMENTS	02/08/22
0		FINAL ISSUED	02/24/22
$\ $			

SITE NUMBER: CTHA026A ECO-SITE: GLASTONBURY CT-0007A

SITE ADDRESS: 63-80 WOODLAND STREET GLASTONBURY, CT 06073

SHEET TITLE:
A-4: GENERATOR SPECIFICATIONS



AUTOMATIC TRANSFER SWITCH DETAILS SCALE: N.T.S.

A-5/

APPLICANT:

# T - Mobile - 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:



462 WALNUT STREET, SUITE 1 NEWTON, MA 02460 617-212-3123



THIS DOCUMENT IS THE DESIGN PROPERTY AND COPYRIGHT OF FORESITE, LLC. AND FOR THE EXCLUSIVE USE BY THE TITLE CLIENT.

DUPLICATION OR USE WITHOUT THE EXPRESS WRITTEN CONSENT OF THE CREATOR IS STRICTLY PROHIBITED. DRAWING SCALES ARE INTENDED FOR 11"x17" SIZE PRINTED MEDIA ONLY. ALL OTHER PRINTED SIZES ARE DEEMED "NOT TO SCALE".

REV	DESCRIPTION	DATE
Α	PRELIMINARY	01/19/22
В	REVISED PER COMMENTS	02/08/22
0	FINAL ISSUED	02/24/22

SITE NUMBER: CTHA026A ECO-SITE: GLASTONBURY CT-0007A

SITE ADDRESS: 63-80 WOODLAND STREET GLASTONBURY, CT 06073

> SHEET TITLE: A-5: AUTOMATIC TRANSFER SWITCH DETAILS

#### **GENERAL ELECTRICAL NOTES**

1. 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:

NEPA - 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

- 2. ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PRODUCED PER SPECIFICATION REQUIREMENTS.
- 3. THE ELECTRICAL WORK INCLUDES ALL LABOR AND MATERIAL DESCRIBED BY DRAWINGS AND SPECIFICATION INCLUDING INCIDENTAL WORK TO PROVIDE COMPLETE OPERATING AND APPROVED ELECTRICAL SYSTEM.
- 4. GENERAL CONTRACTOR SHALL PAY FEES FOR PERMITS, AND RESPONSIBLE FOR OBTAINING SAID PERMITS AND COORDINATION OF INSPECTIONS
- 5. 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.
- 6. RIGID STEEL CONDUITS SHALL BE GROUNDED AT BOTH ENDS.
- 7. ELECTRICAL WIRING SHALL BE COPPER WITH TYPE XHHW, THWN, OR THIN INSULATION.
- 8. ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NAME 3R ENCLOSURE.
- 9. GROUNDING SHALL COMPLY WITH NEC ART. 250.
- 10. GROUNDING COAX CABLE SHIELDS MINIMUM AT BOTH ENDS USING MANUFACTURES COAX CARLE GROUNDING KITS SUPPLIED BY PROJECT OWNER
- 11. USE #6 COPPER STRANDED WIRE WITH GREEN COLOR INSTALLATION FOR ABOVE GRADE GROUNDING (UNLESS OTHERWISE SPECIFIED) AND #2 SOLID TINNED BARE COPPER WIRE FOR BELOW GRADE GROUNDING AS INDICATED ON THE GROUND
- 12. 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.
- 13. ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING 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.
- 14. 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).
- 15. CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS
- 16. APPLY OXIDE INHIBITING COMPOUND TO ALL COMPRESSION TYPE GROUND CONNECTION.
- 17. TEST COMPLETED GROUND SYSTEM AND RECORD RESULTS FOR PROJECT CLOSE-OUT DOCUMENTATION.
- 18. BOND ANY METAL OBJECTS WITHIN 7 FEET OF PROPOSED EQUIPMENT OR CABINET TO MASTER GROUND BAR.
- 19. VERIFY PROPOSED SERVICE UPGRADE WITH LOCAL UTILITY COMPANY PRIOR TO CONSTRUCTION
- 20. 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
- 21. PROVIDE SLIP JOINS WHERE CONDUITS TRANSITION FROM UNDERGROUND TO ABOVE GROUND.

# NOTES:

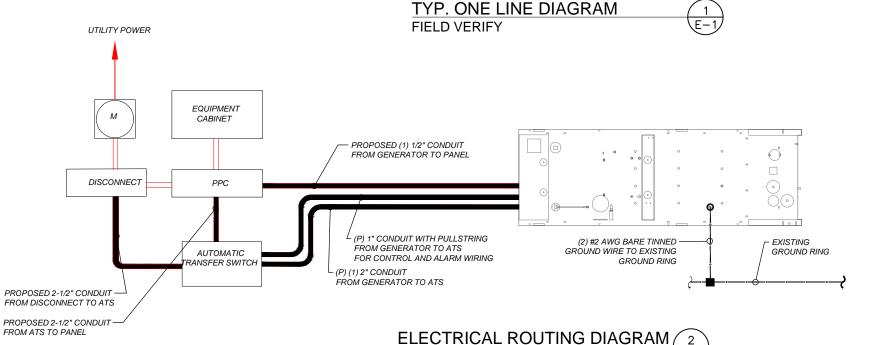
DIAGRAM AS SHOWN, IS A GENERIC ROUTING SCHEMATIC BASED ON AVAILABLE INFORMATION AND MAY NOT REPRESENT ACTUAL FIELD CONDITIONS. CONTRACTOR SHOULD INSTALL THE GENERATOR, **EQUIPMENT AND CONNECTIONS BASED ON VERIFIED ELECTRICAL** AUDITS AND PER MANUFACTURER'S INSTALLATION GUIDELINES AS WELL AS ALL APPLICABLE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

#### **GROUNDING NOTES**

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

# (3) #1/0 & (1) #6G (CU THHN) IN 2"C (P) ON-BOARD 200A CIRCUIT BREAKER (HEIGHT 66.9")(SEE SHEET A-3) (GENERATOR DISCONNECTING MEANS SHALL COMPLY WITH NEC 445.18 (B)) (E) T-MOBILE 200A - FUSED 120/240 V SINGLE PHASE DISCONNECT (P) GENERAC 25 KW AC DIESEL GENERATOR 120/240-1φ-3W (P) (2) 1/2" CONDUIT WITH (3) 3/0 & (1) #4 GND (P) GENERAC 200A, 240V AUTOMATIC TRANSFER SWITCH (P) 1/2" CONDUIT WITH (ALL EXTERIOR ELECTRICAL (P) 1" CONDUIT WITH PULL STRING (4) #12 & (2) #12 GND **EQUIPMENT TO HAVE NEMA 3R** TO POWER PANEL FROM GENERATOR TO ATS **ENCLOSURES. SEE NOTE 8)** FOR CONTROL AND ALARM WIRING MTS 0-(E) 200A GENERATOR RECEPTACLE (E) POWER PANEL (F) PPC

TO (E) EQUIPMENT



SCALE: N.T.S

APPLICANT:

# T. Mobile. T-MOBILE NORTHEAST LLC

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

# PROJECT MANAGER

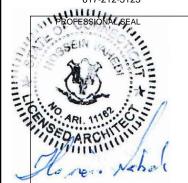


420 MAIN STREET BLDG 4 STURBRIDGE, MA 01566 203-275-6669

#### **CONSULTANT:**



462 WALNUT STREET, SUITE 1 NEWTON, MA 02460 617-212-3123



THIS DOCUMENT IS THE DESIGN PROPERTY AND COPYRIGHT OF FORESITE, LLC, AND FOR THE EXCLUSIVE USE BY THE TITLE CLIENT. DUPLICATION OR USE WITHOUT THE EXPRESS WRITTEN CONSENT OF THE CREATOR IS STRICTLY PROHIBITED. DRAWING SCALES ARE INTENDED FOR 11"x17" SIZE PRINTED MEDIA ONLY. ALL OTHER PRINTED SIZES ARE DEEMED "NOT TO SCALE".

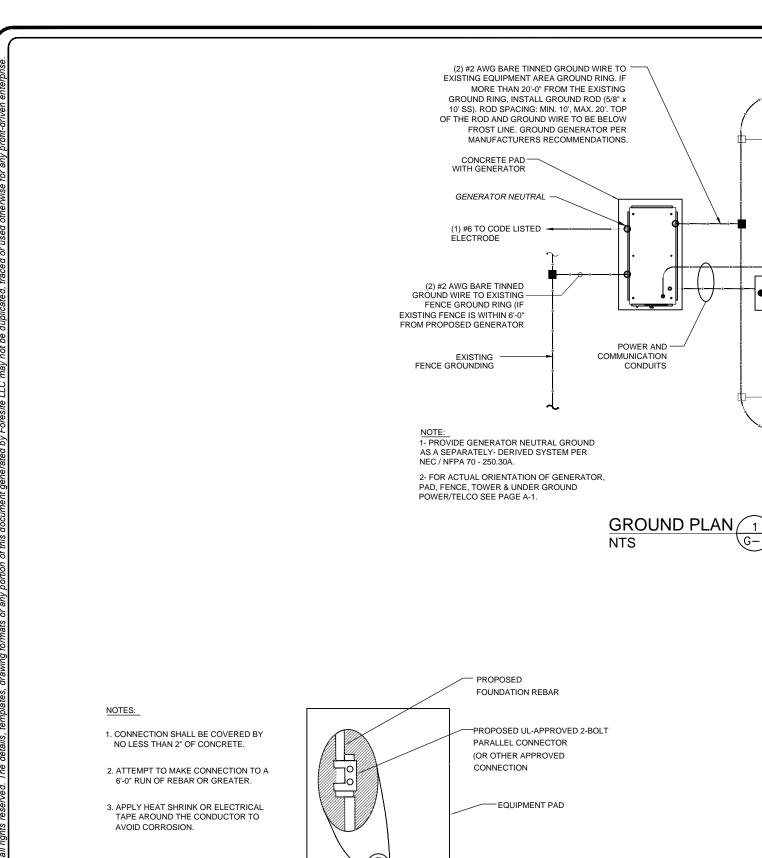
l	REV	DESCRIPTION	DATE
l	Α	PRELIMINARY	01/19/22
l	В	REVISED PER COMMENTS	02/08/22
l	0	FINAL ISSUED	02/24/22
l			
l			
l			
l			
l			
l			

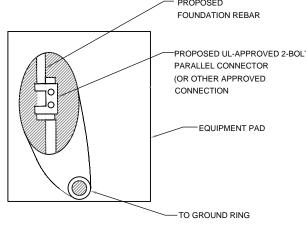
SITE NUMBER: CTHA026A ECO-SITE: GLASTONBURY CT-0007A

SITE ADDRESS: 63-80 WOODLAND STREET GLASTONBURY, CT 06073

SHEET TITLE:

E-1: ELECTRICAL DETAILS





**EQUIPMENT PAD GROUNDING** NTS

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

**EXISTING** 

**EQUIPMENT** ARFA

#2 AWG BARE TINNED GROUND WIRE CONNECTED

GROUND BAR

VERIFY QTY., LENGTH, TYPE &

CONFIGURATION OF GROUND RODS TO

ENSURE SYSTEM PROVIDES GROUND RESISTANCE OF 5 OHMS OR LESS

NOTE:

NOTE:

GROUND WIRE WEATHERPROOFING 3

PROPOSED #2 SOLID

PROPOSED SILICONE

TINNED COPPER WIRE

**APPLICANT:** 

# T - Mobile T-MOBILE NORTHEAST LLC

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

#### PROJECT MANAGER

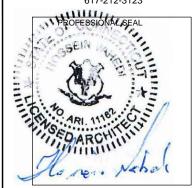


420 MAIN STREET, BLDG 4 STURBRIDGE, MA 01566 203-275-6669

#### **CONSULTANT:**



462 WALNUT STREET, SUITE 1 NEWTON, MA 02460 617-212-3123



THIS DOCUMENT IS THE DESIGN PROPERTY AND COPYRIGHT OF FORESITE, LLC. AND FOR THE EXCLUSIVE USE BY THE TITLE CLIENT. DUPLICATION OR USE WITHOUT THE EXPRESS WRITTEN CONSENT OF THE CREATOR IS STRICTLY PROHIBITED. DRAWING SCALES ARE INTENDED FOR 11"x17" SIZE PRINTED MEDIA ONLY. ALL OTHER PRINTED SIZES ARE DEEMED "NOT TO SCALE".

l	REV	DESCRIPTION	DATE
l	Α	PRELIMINARY	01/19/22
l	В	REVISED PER COMMENTS	02/08/22
l	0	FINAL ISSUED	02/24/22
l			
l			
l			
l			
l			
l			

SITE NUMBER: CTHA026A ECO-SITE: GLASTONBURY CT-0007A

SITE ADDRESS: 63-80 WOODLAND STREET GLASTONBURY, CT 06073

> SHEET TITLE: G-1: GROUNDING DETAILS

# Exhibit D

**EPA Certified Stationary Emergency** 



Standby Power Rating 48 kW, 60 kVA, 60 Hz







Image used for illustration purposes only

# **Codes and Standards**

Not all codes and standards apply to all configurations. Contact factory for details.



UL2200, UL508, UL489, UL142



CSA 22.2





BS5514 and DIN 6271



**SAE J1349** 



NFPA 37, 70, 99



ISO 3046, 8528, 9001



NEMA ICS1, ICS10, MG1, 250, ICS6, AB1



an National Standards Institute ANSI/IEEE C62.41

# **Powering Ahead**

For over 50 years, Generac has led the industry with innovative design and superior manufacturing.

Generac ensures superior quality by designing and manufacturing most of its generator components, including alternators, enclosures and base tanks, control systems and communications software.

Generac's gensets utilize a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application.

Generac searched globally to ensure the most reliable engines power our generators. We choose only engines that have already been proven in heavy-duty industrial application under adverse conditions.

Generac is committed to ensuring our customers' service support continues after their generator purchase.

# RD048 | 3.4L | 48 kW

### INDUSTRIAL DIESEL GENERATOR SET

**EPA Certified Stationary Emergency** 

# **Standard Features**

## **ENGINE SYSTEM**

- Cold Weather Kit
- Oil Drain Extension
- Fan Guard
- Stainless Steel Flexible Exhaust Connection
- · Factory Filled Oil & Coolant

# **Fuel System**

Primary Fuel Filter

### **Cooling System**

- Closed Coolant Recovery System
- Factory-Installed Radiator
- 50/50 Ethylene Glycol Antifreeze
- Radiator Drain Extension
- Can Operate at up to 122°F (50°C) Ambient Temperature

# **Electrical System**

- Battery Charging Alternator
- Battery Cables
- Battery Tray
- Rubber-Booted Engine Electrical Connections
- Solenoid Activated Starter Motor
- Smart Battery Charger

#### **ALTERNATOR SYSTEM**

- Class H Insulation Material
- 2/3 Pitch
- Skewed Stator
- Sealed Bearings
- Low Temperature Rise (<120°C)
- Low THD (<5%)

# **GENERATOR SET**

GENERAC

Sound Attenuated Aluminum Enclosure

**INDUSTRIAL** 

- Internal Genset Vibration Isolation
- Separation of Circuits High/Low Voltage
- Wrapped Exhaust Piping
- Standard Factory Testing
- 5 Year Limited Warranty
- Ready to Accept Full Load in <10 Seconds</li>
- E-Stop

### **TANKS**

- 48 Hour Run Time Tank
- UL 142 Listed Tank

# **CONTROL SYSTEM**



# **Evolution ™ Controller**

- Two-Line Plain Text LCD Display
- Programmable Start Delay Between 10-30 seconds
- 10 second Engine Start Sequence
- 5 second Engine Warm Up
- 1 minute Engine Cool-Down
- Starter Lock-Out
- Smart Battery Charger
- Automatic Voltage Regulation with Over and Under Protection
- Automatic Low Oil Pressure Shutdown
- Overspeed Shutdown
- High Temperature Shutdown

- Overcrank Protection
- · Safety Fused
- · Failure to Transfer Protection
- Low Battery Protection
- 50 Even Run Log
- Future Set Capable Exerciser
- Incorrect Wiring Protection
- Internal Fault Protection
- · Common External Fault Capability
- · Governor Failure Protection

# **Optional Shipped Loose and Field Install Kits**

### **GENERATOR SET**

- O Paint Kit
- O Scheduled Maintance Kit

### **CONTROL SYSTEM**

○ Mobile Link <sup>TM</sup> and Adapter Kit

#### **TANKS**

- O Spill Box
- O 90% Fuel Alarm
- Tank Risers
- O Spill Box Drainback Kit
- O Vent Extension Support Kit
- 5 Day Run Time Tank
- Overfill Prevention Valve
- O Fuel Fill Drop Tube
- Lockable Fuel Cap

# RD048 | 3.4L | 48 kW

# INDUSTRIAL DIESEL GENERATOR SET

**EPA Certified Stationary Emergency** 



# **APPLICATION AND ENGINEERING DATA**

# **ENGINE SPECIFICATIONS**

General

Make	Generac
Cylinder #	4
Туре	In-Line
Displacement - in <sup>3</sup> (L)	3.4 (207.48)
Bore - in (mm)	3.86 (98)
Stroke - in (mm)	4.45 (113)
Compression Ratio	18.5:1
Intake Air Method	Turbocharged/Aftercooled

Cast Iron OHV

Aluminum

# **Engine Governing**

Cylinder Head

Piston Type

Governor	Electronic
Frequency Regulation (Steady State)	±0.25%

# Lubrication System

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

# Cooling System

Cooling System Type	Closed Recovery
Fan Type	Pusher
Fan Speed- rpm	2,029
Fan Diameter - in (mm)	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 Lin (mm/in)	7.94/0.31 (ID)	
Fuel Return Line (mm/in)	7.94/0.31 (ID)	
Fuel Filtering (microns)	25	

# Engine Electrical System

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

# **ALTERNATOR SPECIFICATIONS**

Standard Model	Generac
Poles	4
Field Type	Rotating
Insulation Class - Rotor	Н
Insulation Class - Stator	Н
Total Harmonic Distortion	<5%
Telephone Interference Factor (TIF)	<50

Standard Excitation	Direct
Bearings	Single Sealed
Coupling	Flexible Disc
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Full Digital
Number of Sensed Phases	2
Regulation Accuracy (Steady State)	±1.0%

# RD048 | 3.4L | 48 kW

# INDUSTRIAL DIESEL GENERATOR SET

**EPA Certified Stationary Emergency** 



# **OPERATING DATA**

#### **POWER RATINGS**

Standby

Single-Phase 120/480 VAC @0.1pf

48 kW

Amps: 200

# **MOTOR STARTING CAPABILITIES (SKVA)**

sKVA vs. Voltage Dip at 30%

120/240 V, Single-Phase at 0.4pf	189
----------------------------------	-----

#### **FUEL CONSUMPTION RATES\***

Percent Load	Diesel gal/hr (L/hr)
25%	1.35 (5.11)
50%	2.15 (8.14)
75%	3.06 (11.58)
100%	3.98 (15.07)

<sup>\*</sup> Fuel supply installation must accommodate fuel consumption rates at 100% load.

# **COOLING**

		Standby
Air Flow (Radiator and Alternator)	ft³/min (m³/min)	2824 (80)
Coolant System Capacity	gal (L)	2.8 (10.6)
Heat Rejection to Coolant	BTU/hr (MJ/hr)	135,900 (143.4)
Temperature Deration	3% for every 5°C above 25°C or 1	.7% for every 5°F over 77°F
Altitude Deration	1% for every 100 m above 915 or 3% fo	r every 1000 ft over 3000 ft
Maximum Radiator Backpressure	in H <sub>2</sub> O (kPa)	0.50 (0.12)

# **COMBUSTION AIR REQUIREMENTS**

	Standby
Flow at Rated Power ft <sup>3</sup> /min (m <sup>3</sup> /min)	190 (5.38)

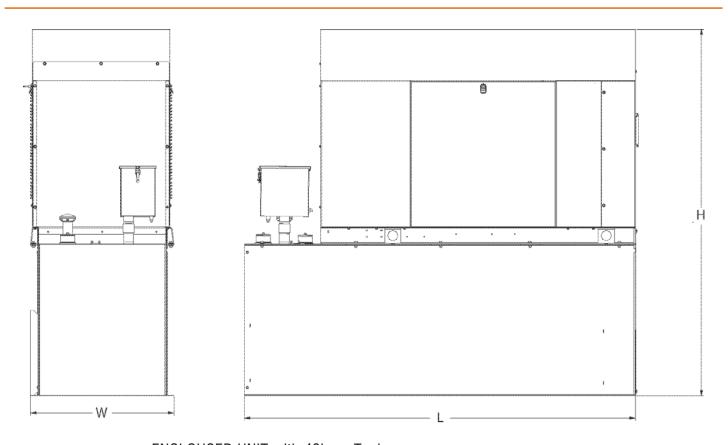
ENGINE			EXHAUST		
		Standby			Standby
Rated Engine Speed	rpm	1,800	Exhaust Flow (Rated Output)	ft³/min (m³/min)	448 (12.7)
Horsepower at rated kW	HP	85	Exhaust Temp (Rated Output - Post Silencer)	°F (°C)	1120 (604.4)

Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions.

Please consult a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528 and DIN6271 standards. Standby - See Bulletin 0187500SSB



# **DIMENSIONS AND WEIGHTS\***



# **ENCLOUSED UNIT with 48hour Tank**

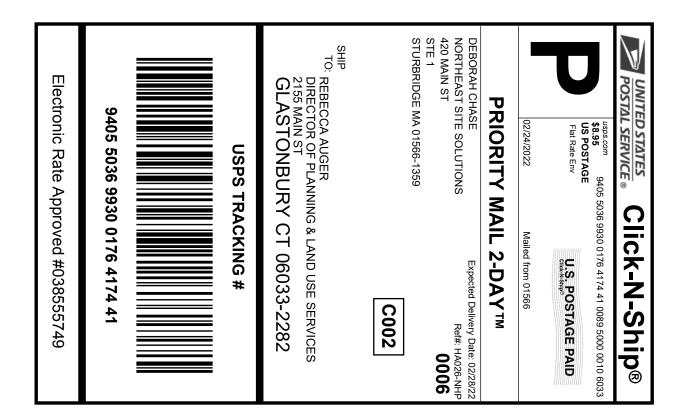
L x W x H in (mm)	95.4 (2,422) x 35.0 (880) x 89.3 (2,269)
Sound output in dB(A) at 23ft with generator operating at normal Load	65

\* 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.

# Exhibit E





Cut on dotted line.

# Instructions

- 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 0176 4174 41

557437191 02/24/2022 Trans. #: Print Date: Ship Date: 02/24/2022 02/28/2022 Delivery Date:

Priority Mail® Postage: Total:

\$8.95 \$8.95

From: DEBORAH CHASE Ref#: HA026-NHP

NORTHEAST SITE SOLUTIONS

420 MAIN ST

STE 1

STURBRIDGE MA 01566-1359

REBECCA AUGER

DIRECTOR OF PLANNING & LAND USE SERVICES

**2155 MAIN ST** 

GLASTONBURY CT 06033-2282

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.





Cut on dotted line.

# Instructions

- 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 0176 4174 58

557437191 02/24/2022 Trans. #: Print Date: Ship Date: 02/24/2022 02/28/2022 Delivery Date:

Priority Mail® Postage: \$8.95 Total:

\$8.95

Ref#: HA026-NHP

From: DEBORAH CHASE

NORTHEAST SITE SOLUTIONS

420 MAIN ST

STE 1

**STURBRIDGE MA 01566-1359** 

RICHARD J JOHNSON

TOWN MANAGER **2155 MAIN ST** 

GLASTONBURY CT 06033-2282

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.





Cut on dotted line.

# Instructions

- 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 0176 4174 65

557437191 02/24/2022 Trans. #: Print Date: Ship Date: 02/24/2022 02/28/2022 Delivery Date:

Total:

Priority Mail® Postage:

\$8.95 \$8.95

Ref#: HA026-NHP

From: DEBORAH CHASE

NORTHEAST SITE SOLUTIONS

420 MAIN ST

STE 1

STURBRIDGE MA 01566-1359

PAUL J CAVANNA

80 WOODLAND ST

S GLASTONBURY CT 06073-2715

\* 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.



**FARMINGTON** 210 MAIN ST FARMINGTON, CT 06032-9998 (800)275-8777

02/28/2022

01:02 PM

Price

\$0.00

\$0.00

\$0.00

Product

Qty

Unit Price

Prepaid Mail

Glastonbury, CT 06033 Weight: 0 lb 6.60 oz Acceptance Date:

Mon 02/28/2022

Tracking #: 9405 5036 9930 0176 4174 41

Prepaid Mail

Glastonbury, CT 06033 Weight: 0 lb 6.60 oz

Acceptance Date:

Mon 02/28/2022

Tracking #: 9405 5036 9930 0176 4174 58

Prepaid Mail

South Glastonbury, CT 06073 Weight: 0 lb 6.60 oz

Acceptance Date: Mon 02/28/2022

Tracking #: 9405 5036 9930 0176 4174 65

Grand Total:

\$0.00

\* USPS is experiencing unprecedented volume increases and limited employee

availability due to the impacts of COVID-19. We appreciate your patience. 

Preview your Mail Track your Packages Sign up for FREE @ https://informeddelivery.usps.com

All sales final on stamps and postage. Refunds for guaranteed services only. Thank you for your business.

Jell us about your experience. Go to: https://postalexperience.com/Pos or scan this code with your mobile device,



or call 1-800-410-7420