



NORTHEAST
SITE SOLUTIONS

Turnkey Wireless Development

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

January 6, 2020

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

RE: Notice of Exempt Modification
95 High Street, Portland CT 06010
Latitude: 41.581115
Longitude: -72.622217
T-Mobile Site#: CTHA242A_NHP18

Dear Ms. Bachman:

T-Mobile currently maintains six (6) antennas at the 110-foot level of the existing 120-foot monopole tower at 95 High Street, Portland CT. The 120-foot tower and property are both owned by The Town of Portland. T-Mobile now intends to add a 25Kw generator to the existing 11'-6"-0" x 19'-0" concrete pad within existing compound.

Planned Modifications:

Ground work only:

Install New:

- (1) Delta 25Kw DC Generator – 220 gallon double walled self-contained tank with fuel sensor.
Requires two (2) 20 minute run cycles monthly.

This facility was approved by the CT Siting Council: TS-T-MOBILE-113-060607–on June 29, 2006. This modification complies with this original approval.

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 Ms. Susan S. Bransfield, First Selectwoman and Dan Bourret, Zoning Enforcement Officer for the Town of Portland, as well as the property owner and the tower owner.

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

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

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

Sincerely,

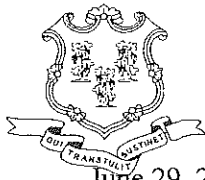
Victoria Masse
Mobile: 860-306-2326
Fax: 413-521-0558
Office: 420 Main Street, Unit 2, Sturbridge MA 01566
Email: Victoria@northeastsitesolutions.com

Attachments

cc: Ms. Susan S. Bransfield, First Selectwoman
Dan Bourret –Zoning Enforcement Officer
Town of Portland - as property and tower owner

Exhibit A

CTHA-242



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL
Ten Franklin Square, New Britain, CT 06051
Phone: (860) 827-2935 Fax: (860) 827-2950
E-Mail: siting.council@po.state.ct.us
www.ct.gov/csc

RECEIVED
JUN 29 2006

June 29, 2006

BY: _____

Karina Fournier
Zoning Department
T-Mobile
30 Cold Spring Road
Rocky Hill, CT 06067

RE: **TS-T-MOBILE-113-060607** - Omnipoint Communications, Inc. request for an order to approve tower sharing at an existing telecommunications facility located at 95 High Street, Portland, Connecticut.

Dear Ms. Fournier:

At a public meeting held June 27, 2006, the Connecticut Siting Council (Council) ruled that the shared use of this existing tower site is technically, legally, environmentally, and economically feasible and meets public safety concerns, and therefore, in compliance with General Statutes § 16-50aa, the Council has ordered the shared use of this facility to avoid the unnecessary proliferation of tower structures. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Any additional change to this facility may require an explicit request to this agency pursuant to General Statutes § 16-50aa or notice pursuant to Regulations of Connecticut State Agencies Section 16-50j-73, as applicable. Such request or notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

This decision applies only to this request for tower sharing and is not applicable to any other request or construction. Please be advised that the validity of this action shall expire one year from the date of this letter.

The proposed shared use is to be implemented as specified in your letter dated June 7, 2006, including the placement of all necessary equipment and shelters within the tower compound.

Thank you for your attention and cooperation.

Very truly yours,

Pamela B. Katz, P.E.
Chairman

PBK/laf

- c: The Honorable Susan S. Bransfield, First Selectman, Town of Portland
- Nancy Mueller, Town Planner, Town of Portland
- Donald Gates, Principal, Portland High School



Exhibit B

Portland, CT : Assessor Database

Property Search:

Parcel ID:	Alternate ID:	Owner 1 Name:	Street Number:	Street Name:
<input type="text"/>	<input type="text"/>	<input type="text"/>	95	HIGH ST ▼

Property Detail:

Parcel ID:	Alternate ID/Map Block Lot:	Card:	Card:	Street Name:	Street Number:	Zoning:	LUC:	Acres:
039-0059	00217600			HIGH ST	95	R15	Communication Towers	15.50

Owner Information:

Owner 1 Name:	PORTLAND TOWN OF
Owner 2 Name:	PORTLAND MIDDLE SCHOOL
Street 1:	PO BOX 71
Street 2:	
City:	PORTLAND
State:	CT
Zip:	06480
Volume:	84
Page:	141

Valuation:

Appraised Land:	\$1,536,000.00
Appraised Bldg:	\$108,000.00
Appraised Total:	\$1,644,000.00
Total Assessment:	\$1,150,800.00

Property Images:

Picture:



Sketch:

There is no sketch available.

Out-Buildings:

Code:	Description:	Units:	Year Built:	Size1:	Size2:	Area:	Grade:	Condition:
TT4	TOWER CELLULAR	4	2009	1	120	0	1	

enhanced service and convenience for citizens of Portland, CT.

The providers of this database: Tyler CLT, Big Room Studios, and Portland, CT assume no liability for any error or omission in the information provided here.

Comments regarding this service should be directed to: assessor@portlandct.org

Thu. December 26, 2019 : 11:00 AM : 0.06s : 10mb





Exhibit C

MODIFICATION OF EXISTING WIRELESS FACILITY BY



T-MOBILE NORTHEAST LLC

NATIONAL HARDENING PROJECT

SITE NUMBER: CTHA242A

SITE NAME: HA242/PORTLANDHS_SST

SITE ADDRESS: 95 HIGH ST

PORTLAND, CT 06480

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

PROJECT MANAGER
NSS NORTHEAST SITE SOLUTIONS
Turkey Wireless Development
 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

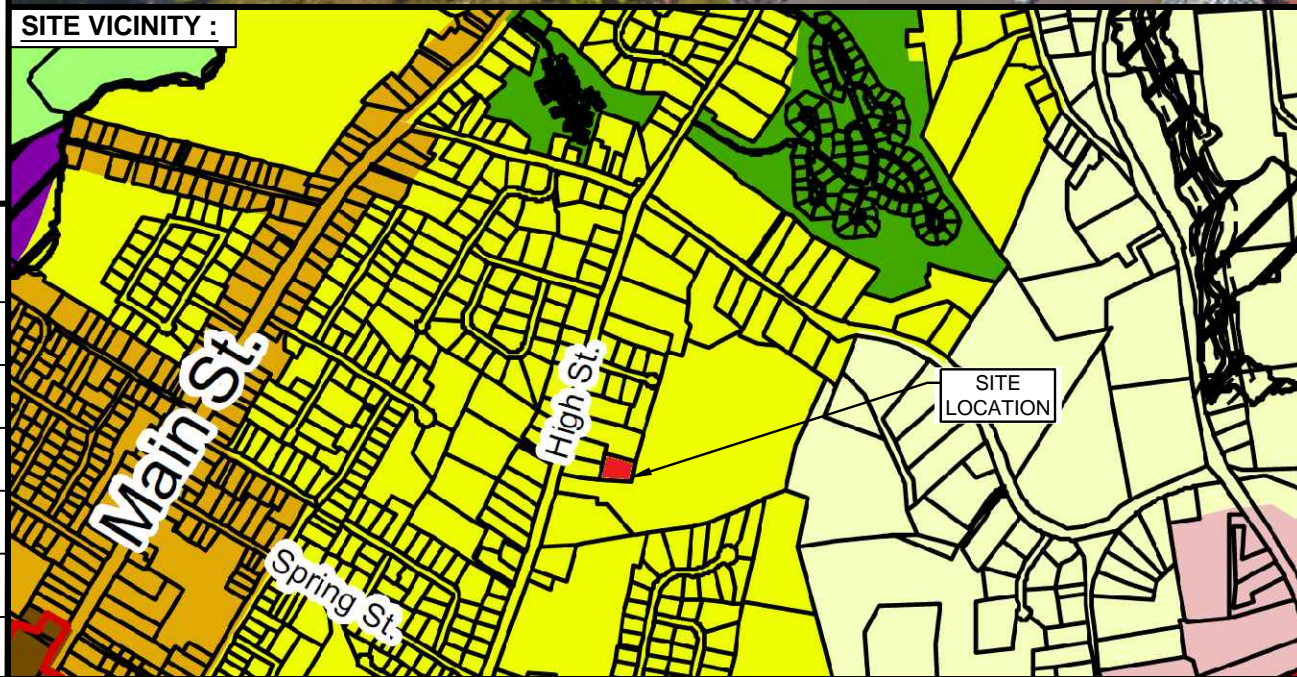


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B	ADD SITE SUPPORT CABINET	08/24/18
0	SIGNED AND SEALED	08/24/18
1	CHANGE TO DELTA GEN.	01/02/20

SITE NUMBER: CTHA242A
 SITE NAME: HA242/PORTLANDHS_SST
 CROWN CASTLE SITE ID: 807133
 SITE ADDRESS: 95 HIGH ST
 PORTLAND, CT 06480

SHEET TITLE:
 T-1: TITLE SHEET



PROJECT SCOPE:
 THE PROPOSED PROJECT SCOPE WILL CONSIST OF INSTALLING NEW 25 KW DC DIESEL GENERATOR AND TANK FOR AN EXISTING TELECOM BASE STATION. NO SIGNIFICANT GRADING IS REQUIRED. ALL PROPOSED CONSTRUCTION WILL BE CONTAINED WITHIN THE LIMITS OF THE EXISTING FENCED COMPOUND AND TOWER SITE LEASE AREA.

- PROJECT NOTES:**
1. 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.
 2. 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.
 3. DEVELOPMENT AND USE OF THE SITE WILL CONFORM TO ALL APPLICABLE CODES, ORDINANCES AND SPECIFICATIONS.

APPLICABLE CODES AND STANDARDS:

2018 CONNECTICUT STATE BUILDING CODE (CSBC).
 ANSII/TIA-222-G-2005 STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS.
 2017 NATIONAL ELECTRICAL CODE (NFPA 70) FOR POWER AND GROUNDING REQUIREMENTS.
 NEC - 2014 NATIONAL ELECTRICAL CODE OSHA - OCCUPATIONAL SAFETY AND HEALTH ACT
 NFPA - NATIONAL FIRE PROTECTION ASSOCIATION

811 Connecticut - Call Before You Dig
 811 or 1-800-927-4455
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

PROJECT INFORMATION:

ADDRESS: 95 HIGH ST
 PORTLAND, CT 06480

COORDINATES: N 41.581115 , W 72.622217

STRUCTURE TYPE: LATTICE TOWER

JURISDICTION: CITY OF PORTLAND, CT

PROJECT TEAM:

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

LANDLORD: TOWN OF PORTLAND, CT

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

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

SHEET INDEX:

T-1: TITLE SHEET
 N-1: GENERAL NOTES
 A-1: PLAN
 A-2: EXISTING & PROPOSED PLAN
 A-3: CONCRETE PAD DETAILS
 A-4: GENERATOR SPECIFICATIONS
 A-5: GENERATOR SPECIFICATIONS
 E-1: GROUNDING AND ELECTRICAL DETAILS

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GENERAL NOTES:

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 PROJEC
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. 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
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.
 - 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. 2009 LIFE SAFETY CODE NFPA - 101.

APPLICANT:

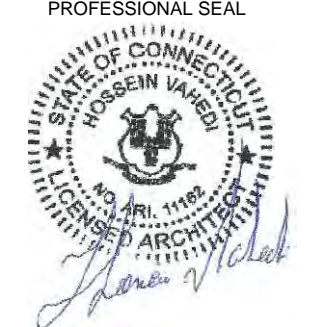
T-MOBILE NORTHEAST LLC
 35 GRIFFIN ROAD SOUTH
 BLOOMFIELD, CT 06002
 860-692-7100

PROJECT MANAGER

NSS NORTHEAST
Turnkey Wireless Development
 420 MAIN STREET, BLDG 4
 STURBRIDGE, MA 01566
 203-275-6669

CONSULTANT:

FORESITE LLC
Architects . Engineers . Surveyors
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PROFESSIONAL SEAL



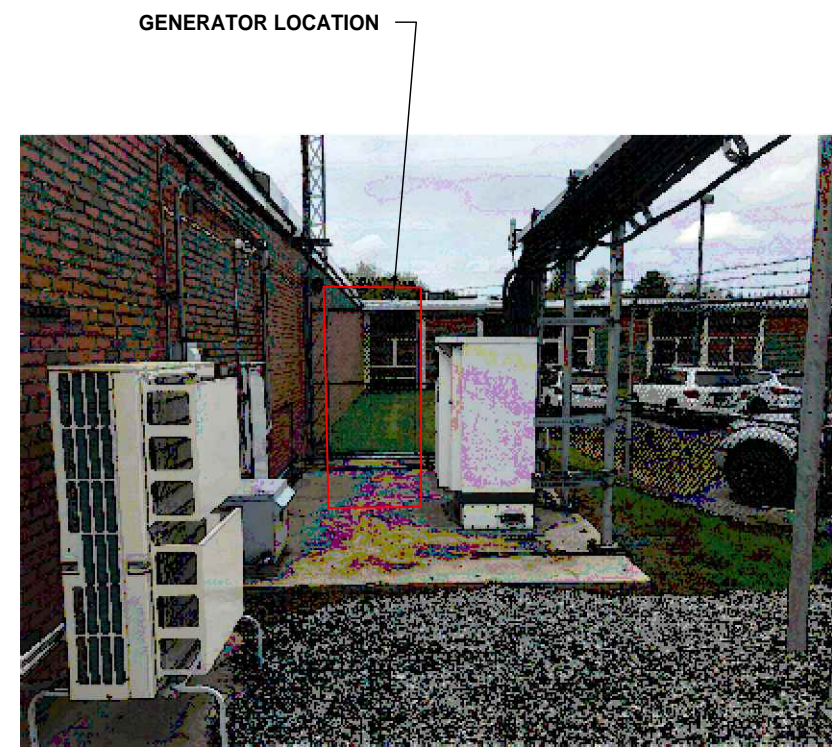
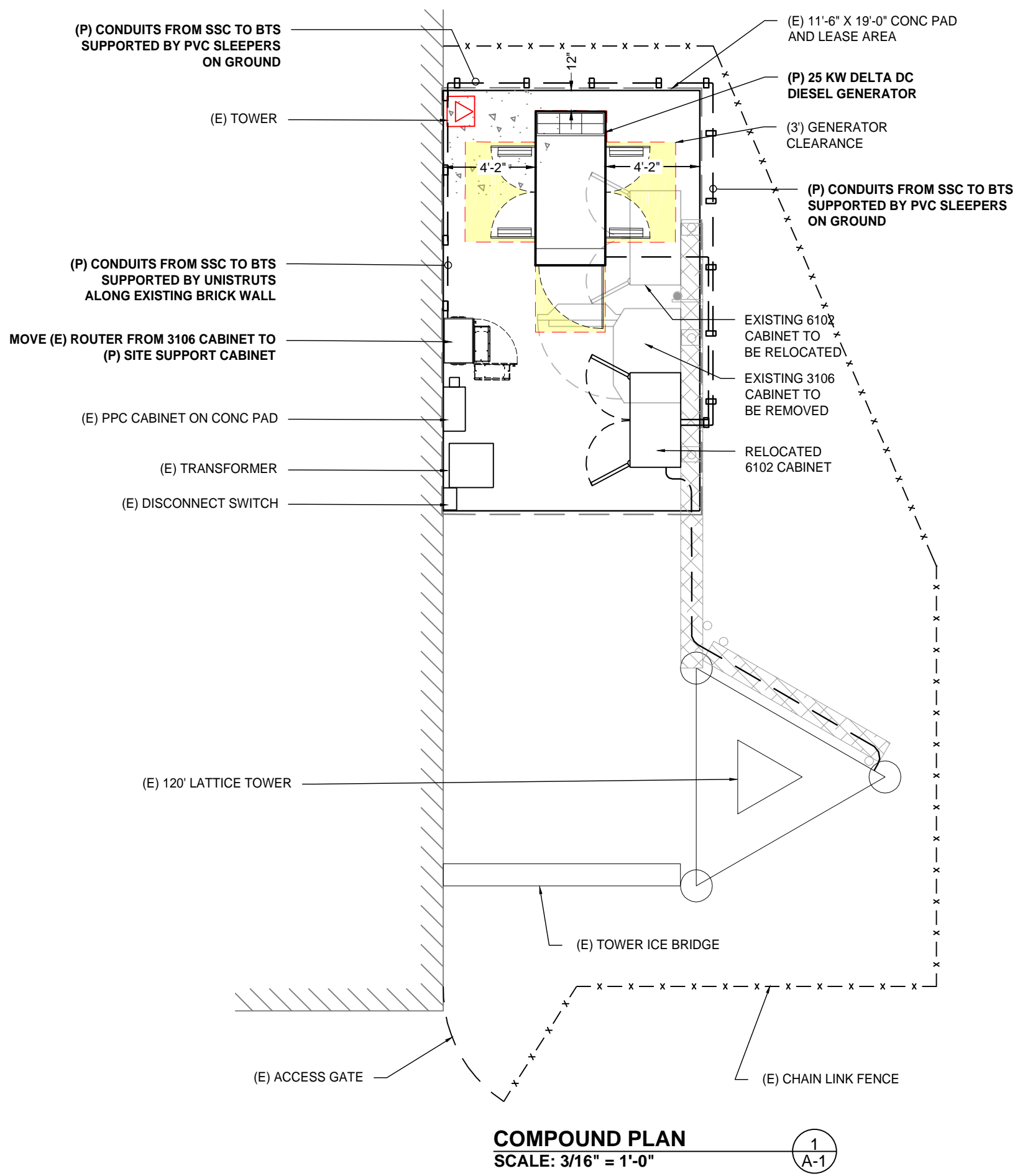
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B	ADD SITE SUPPORT CABINET	08/24/18
0	SIGNED AND SEALED	08/24/18
1	CHANGE TO DELTA GEN.	01/02/20

SITE NUMBER: CTHA242A
 SITE NAME: HA242/PORTLANDHS_SST
 CROWN CASTLE SITE ID: 807133
 SITE ADDRESS: 95 HIGH ST
 PORTLAND, CT 06480

SHEET TITLE:
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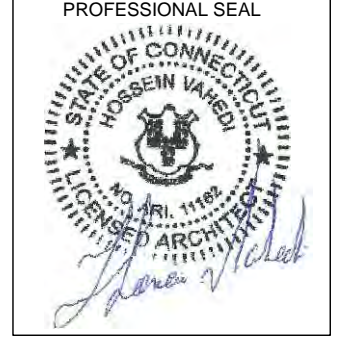
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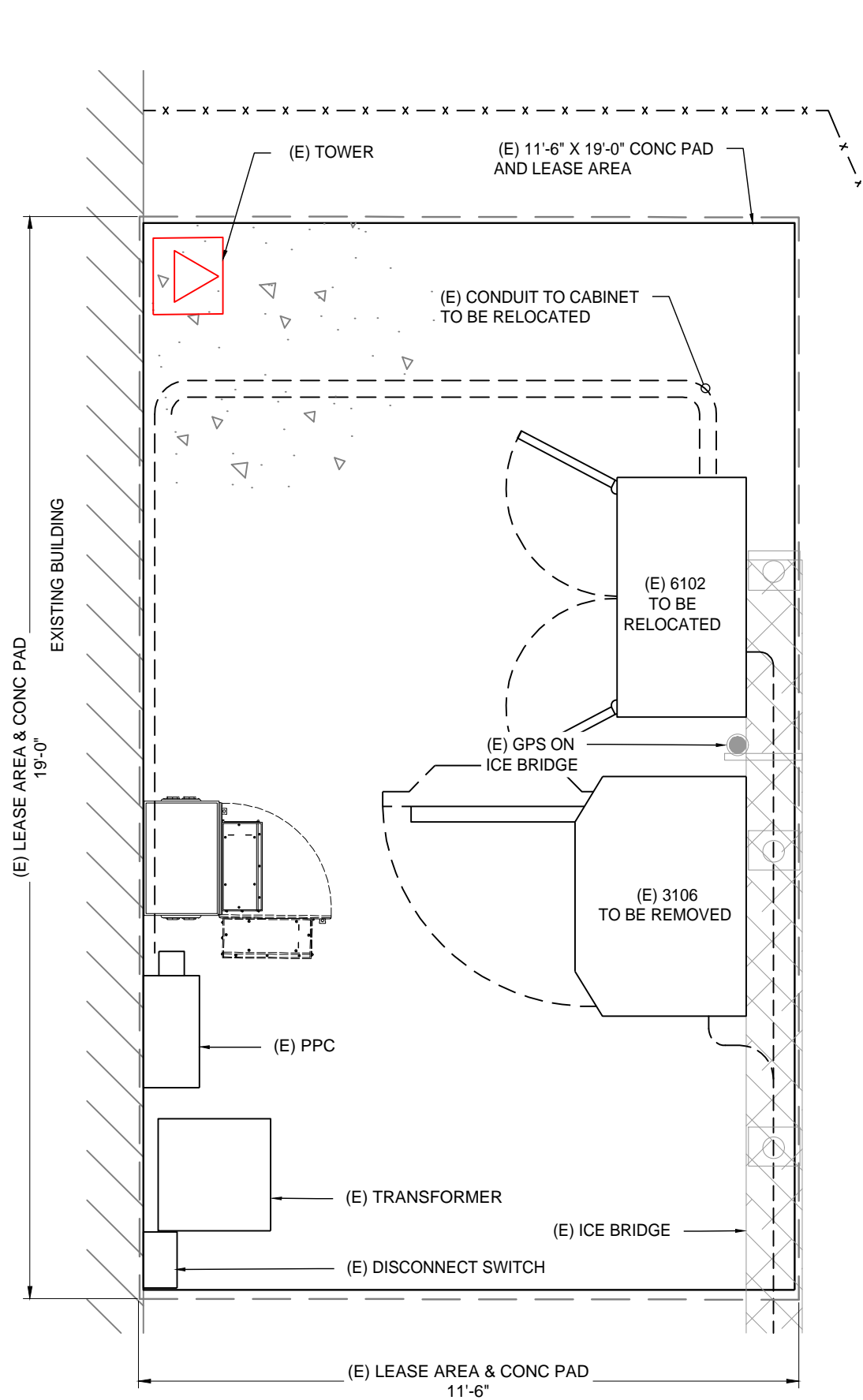
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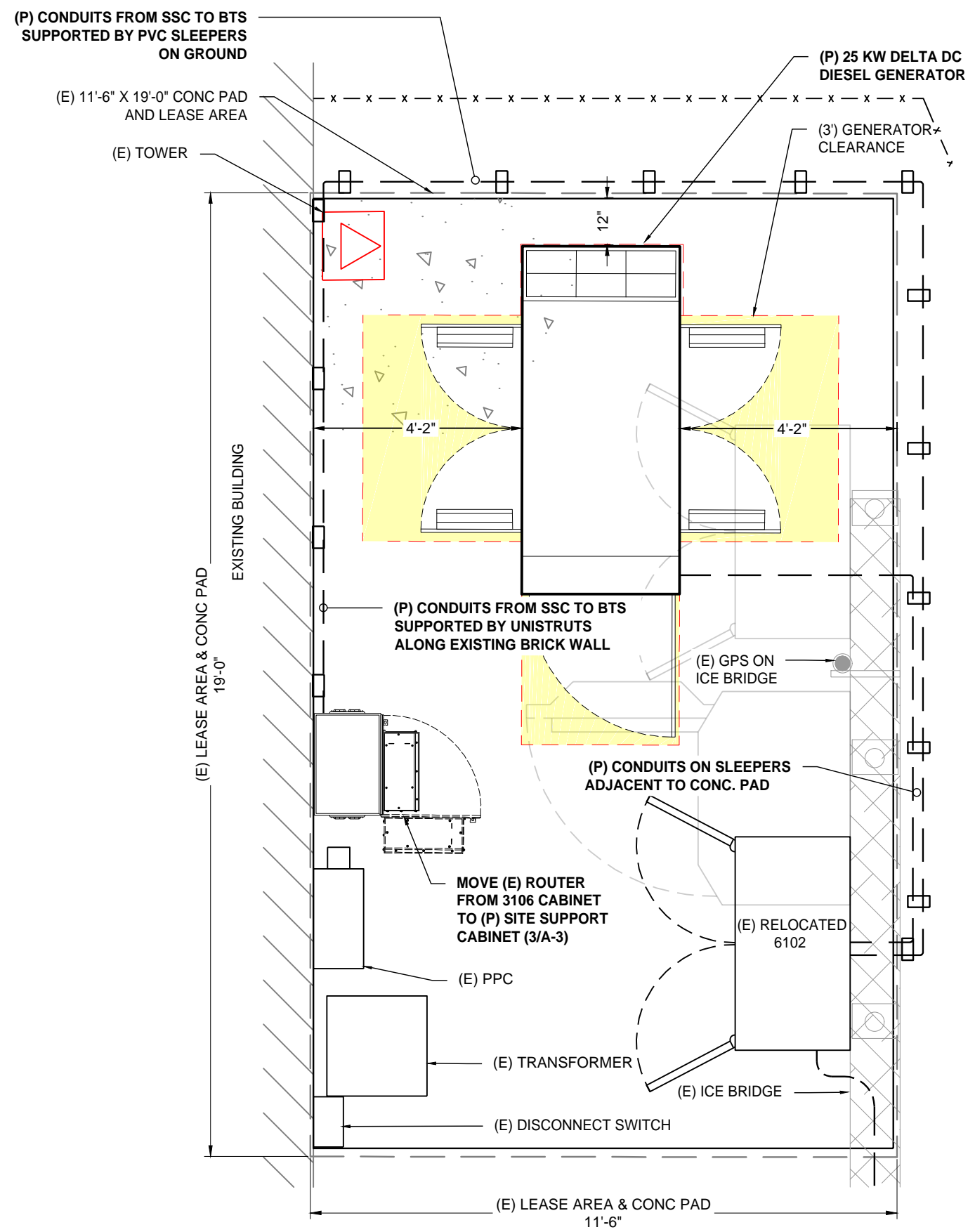
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SHEET TITLE:
A-1: PLAN

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EXISTING EQUIPMENT PLAN 1
SCALE: 3/8" = 1'-0"
A-2

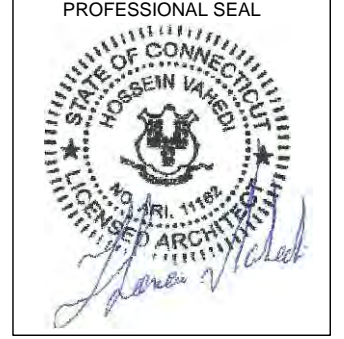


PROPOSED EQUIPMENT PLAN 2
SCALE: 3/8" = 1'-0"
A-2

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

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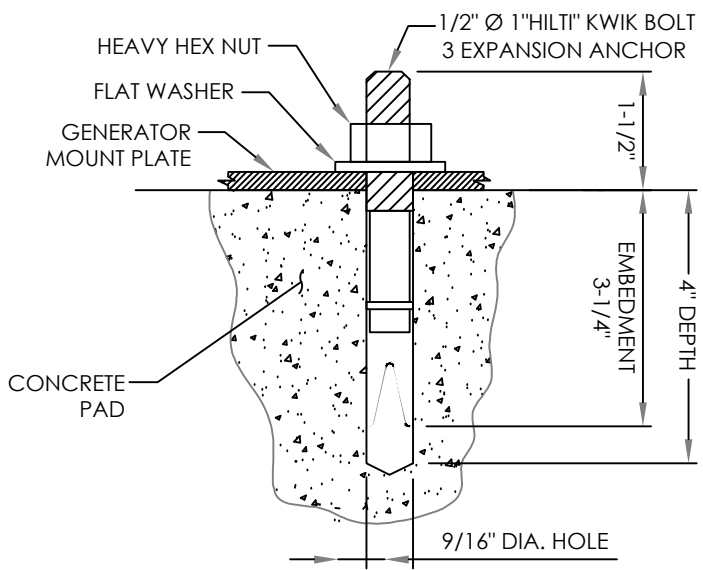
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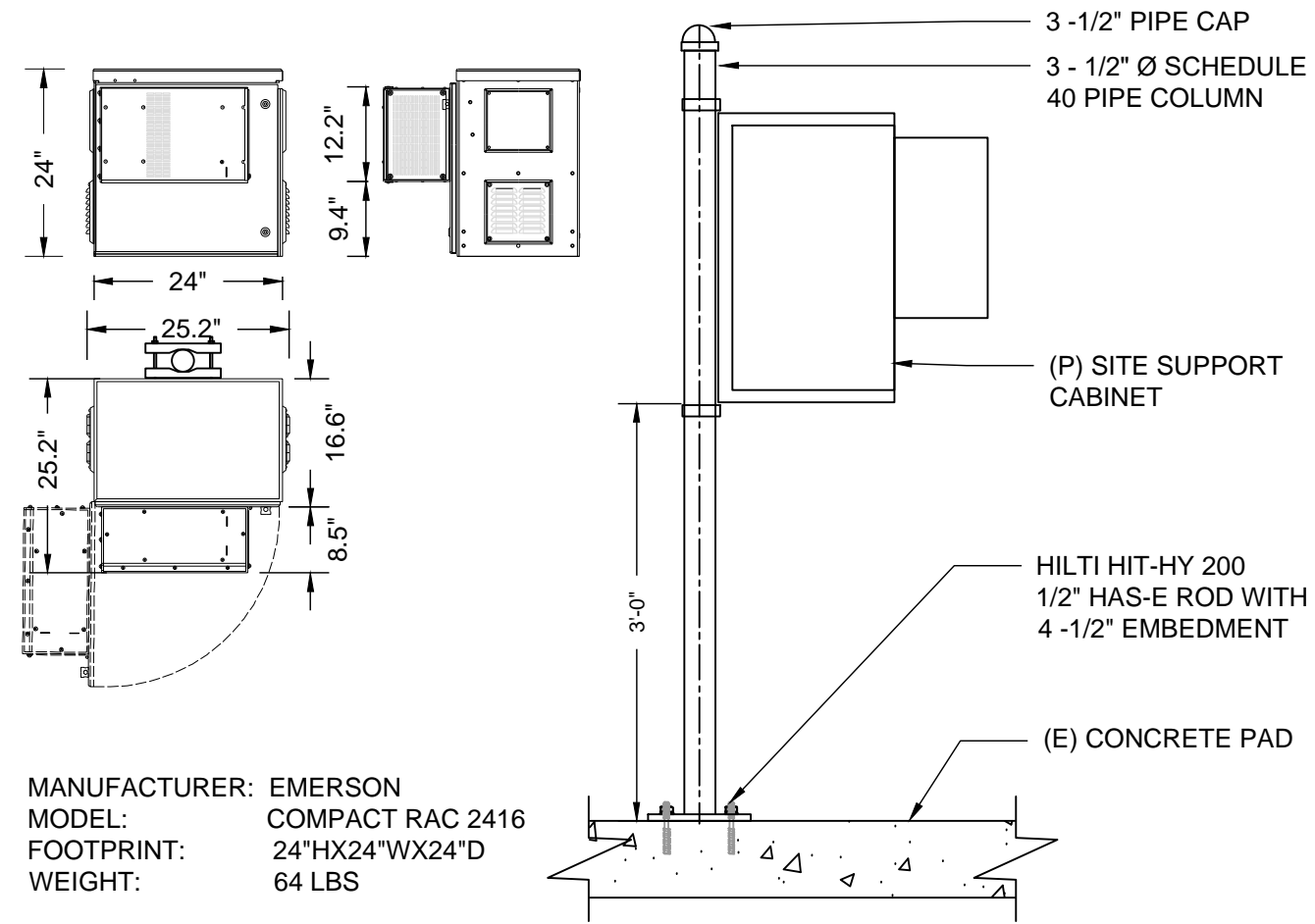
SHEET TITLE:
A-2: EXISTING & PROPOSED PLAN

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- 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.



ANCHORAGE DETAIL
SCALE: N.T.S.



MANUFACTURER: EMERSON
MODEL: COMPACT RAC 2416
FOOTPRINT: 24"X24"WX24"D
WEIGHT: 64 LBS

SITE SUPPORT CABINET DETAILS
SCALE: N.T.S.

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

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SITE SOLUTIONS
Turnkey Wireless Development
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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A	PRELIMINARY	08/22/18
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0	SIGNED AND SEALED	08/24/18
1	CHANGE TO DELTA GEN.	01/02/20

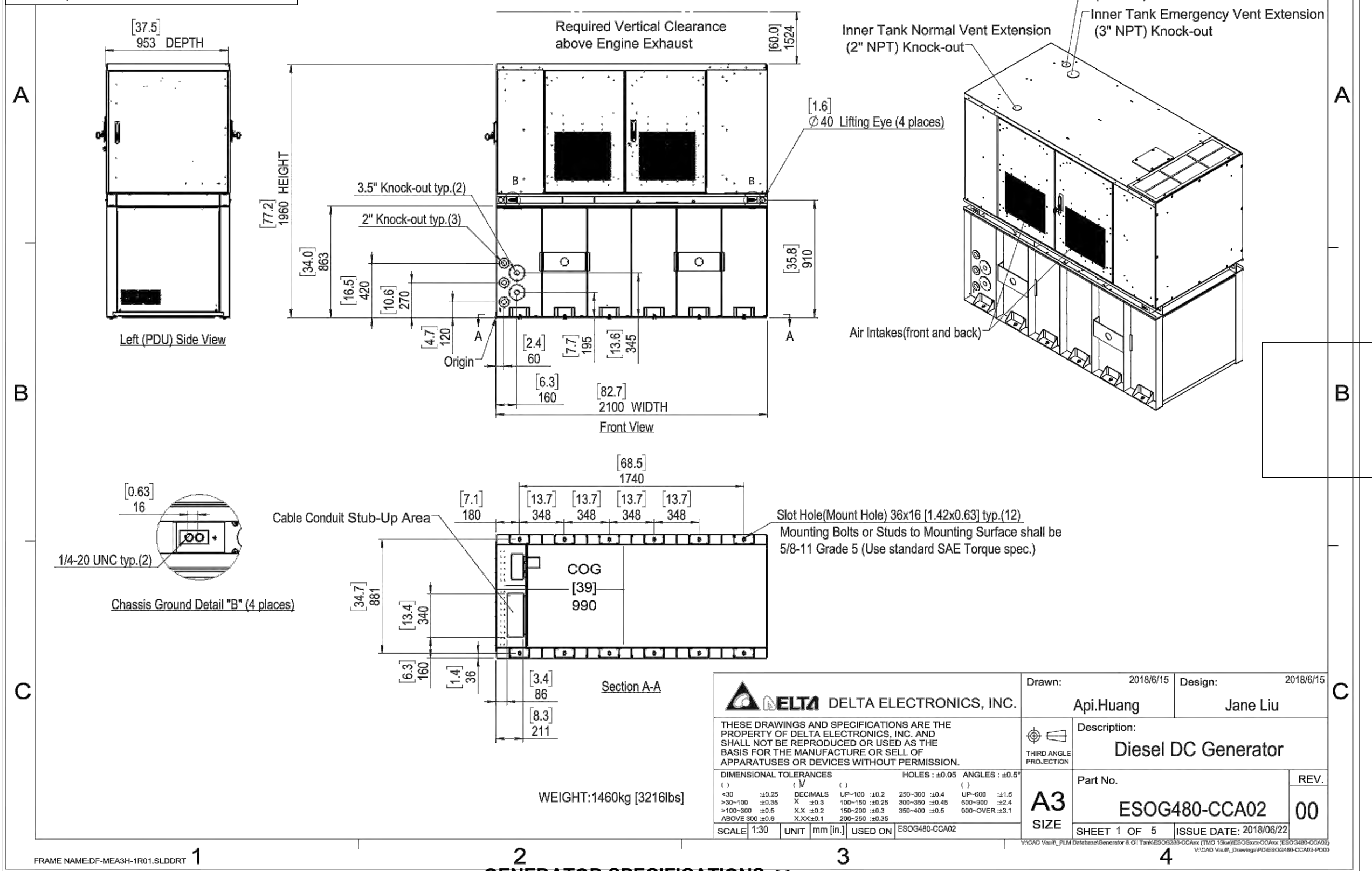
SITE NUMBER: CTHA242A
SITE NAME: HA242/PORTLANDHS_SST
CROWN CASTLE SITE ID: 807133
SITE ADDRESS: 95 HIGH ST
PORTLAND, CT 06480

SHEET TITLE:
A-3: CONCRETE PAD DETAILS

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DELTA 25 KW DC GENERATOR

GENERATOR SPECIFICATIONS
 MANUF.: POWERGEN 25000 (25 KW DC)
 HEIGHT: 77.2"
 WIDTH: 82.7"
 DEPTH: 37.5"
 WEIGHT: 3,220 LBS



FRAME NAME:DF-MEA3H-1R01.SLDDRT 1

GENERATOR SPECIFICATIONS
 SCALE: N.T.S.

DELTA ELECTRONICS, INC.		Drawn: 2018/6/15 Api.Huang	Design: 2018/6/15 Jane Liu
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DIMENSIONAL TOLERANCES () () () () <30 ±0.25 DECIMALS UP-100 ±0.2 250-300 ±0.4 UP-600 ±1.5 >30-100 ±0.35 X ±0.3 100-150 ±0.25 300-350 ±0.45 600-900 ±2.4 >100-300 ±0.5 XX ±0.2 150-200 ±0.3 350-400 ±0.5 900-OVER ±3.1 ABOVE 300 ±0.6 XXX±0.1 200-250 ±0.35		Part No. ESOG480-CCA02	REV. 00
SCALE 1:30	UNIT mm [in.]	SHEET 1 OF 5	ISSUE DATE: 2018/06/22

APPLICANT:

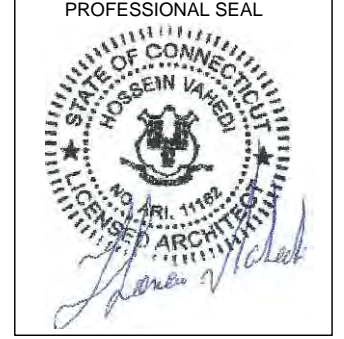
T-MOBILE NORTHEAST LLC
 35 GRIFFIN ROAD SOUTH
 BLOOMFIELD, CT 06002
 860-692-7100

PROJECT MANAGER

NSS NORTHEAST SITE SOLUTIONS
 Turnkey Wireless Development
 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



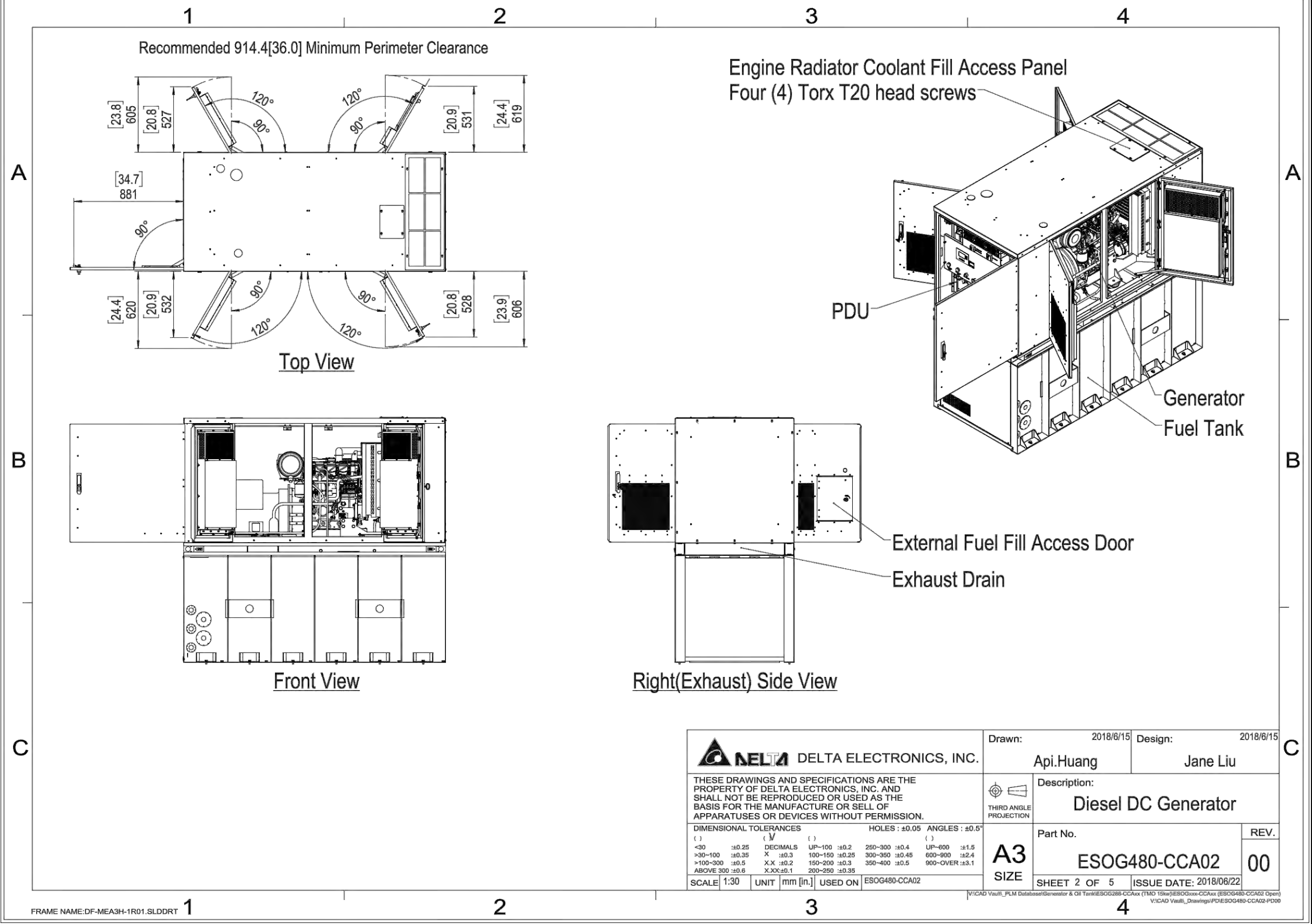
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 SITE NAME: HA242/PORTLANDHS_SST
 CROWN CASTLE SITE ID: 807133
 SITE ADDRESS: 95 HIGH ST
 PORTLAND, CT 06480

SHEET TITLE:
 A-4: GENERATOR SPECIFICATIONS

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		Drawn: 2018/6/15 Api.Huang	Design: 2018/6/15 Jane Liu
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SCALE 1:30	UNIT mm [in.]	USED ON ESOG480-CCA02	REV. 00
SHEET 2 OF 5		ISSUE DATE: 2018/06/22	

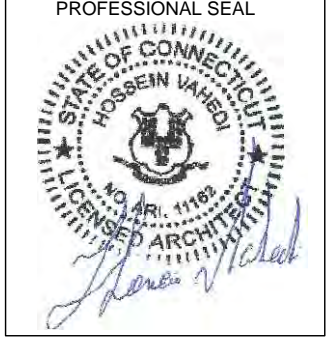
GENERATOR SPECIFICATIONS
 SCALE: N.T.S.

1
A-5

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

PROJECT MANAGER
NSS NORTHEAST
 SITE SOLUTIONS
 Turnkey Wireless Development
 420 MAIN STREET, BLDG 4
 STURBRIDGE, MA 01566
 203-275-6669

CONSULTANT:
FORESITE LLC
 Architects . Engineers . Surveyors
 462 WALNUT STREET
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SHEET TITLE:
 A-5: GENERATOR SPECIFICATIONS

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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 - 2014 NATIONAL ELECTRICAL CODE NEMA - NATIONAL ELECTRIC MANUFACTURERS ASSOCIATION
 OSHA - OCCUPATIONAL SAFETY AND HEALTH ACT
 IBC - 2009 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) AND 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.
- GROUNING SHALL COMPLY WITH NEC ART. 250.
- GROUNING COAX CABLE SHIELDS MINIMUM AT BOTH ENDS USING MANUFACTURERS COAX CABLE GROUNING KITS SUPPLIED BY PROJECT OWNER.
- USE #6 COPPER STRANDED WIRE WITH GREEN COLOR INSTALLATION FOR ABOVE GRADE GROUNING (UNLESS OTHERWISE SPECIFIED) AND #2 SOLID TINNED BARE COPPER WIRE FOR BELOW GRADE GROUNING 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 GROUNING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNING 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); (GROUNING 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.

GROUNING NOTES:

- GROUNING SHALL COMPLY WITH NEC ART. 250 AND MANUFACTURER'S RECOMMENDATIONS. TIE INTO THE EXISTING GROUNING SYSTEM.
- CONTRACTOR SHALL INSTALL GROUND RODS ON ALL UNDERGROUND GROUNING 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 GROUNING SYSTEM IS COMPLETE. THE CONSTRUCTION MANAGER SHALL INSPECT THE GROUNING SYSTEM PRIOR TO BACKFILLING.
- CONTRACTOR MY USE EXISTING CONDUITS AND CONDUCTORS PROVIDED THEY ARE IN GOOD CONDITION AND ARE SUFFICIENTLY RATED.

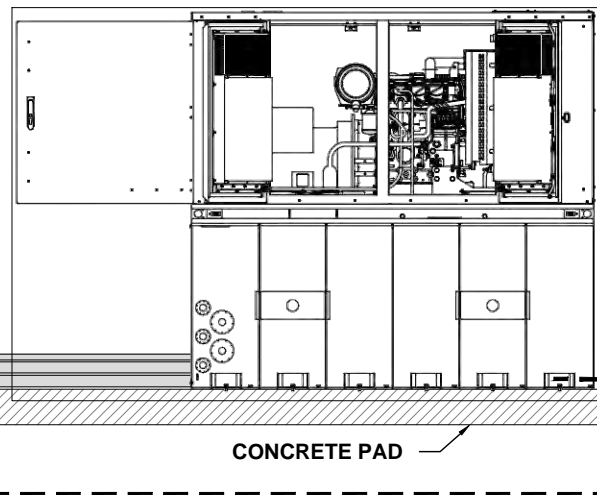
CONSTRUCTION NOTES:

(HAND-DUG UTILITY TRENCH EXCAVATION REQUIRED):

EXISTING UNDERGROUND UTILITY LOCATIONS ARE UNKNOWN. GENERAL CONTRACTOR SHALL HAND-EXCAVATE TO REQUIRED SUB-GRADE DEPTH, SUFFICIENT TEST HOLES. 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.

- (1) CAT5 ALARM CABLE IN 1" LIQUATIGHT (AG) CONDUIT PER MANUFACTURER SPECIFICATIONS TO CABINET
- 2" LIQUATIGHT (AG) CONDUITS WITH CONDUCTORS PER NEC AND MANUFACTURER TO CABINET



PROPOSED (1) 1" NON-METALLIC FLEX CONDUIT W/ #2 AWG BARE TINNED SOLID COPPER CONDUCTOR FROM PROPOSED GENERATOR TO EXISTING GROUND RING.

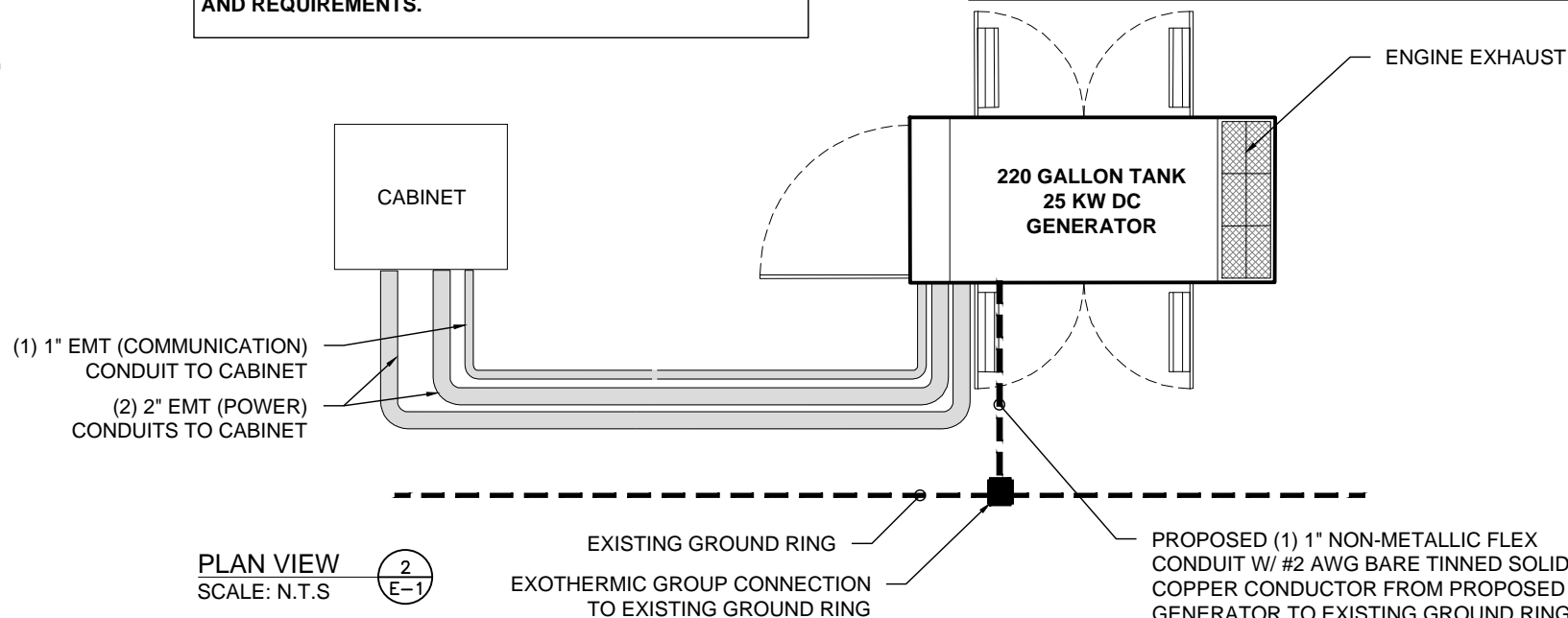
GROUNING AND ELECTRIC RISER DIAGRAM 1
SCALE: N.T.S. E-1

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 GUIDES AS WELL AS ALL APPLICABLE LOCAL AND NATIONAL CODES AND REQUIREMENTS.

NOTES:

G.C. TO VERIFY THAT THE EXISTING AND PROPOSED CONDUITS AND WIRE SIZES ARE ADEQUATE FOR THE PROPOSED SCOPE IN ACCORDANCE WITH NEC AND INCLUDE ELECTRICAL UPGRADES IN THE SCOPE OF WORK AS REQUIRED.



PLAN VIEW 2
SCALE: N.T.S. E-1

APPLICANT:
T-Mobile
T-MOBILE NORTHEAST LLC

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

PROJECT MANAGER
NSS NORTHEAST
SITE SOLUTIONS
Turnkey Wireless Development
420 MAIN STREET, BLDG 4
STURBRIDGE, MA 01566
203-275-6669

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Architects . Engineers . Surveyors
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CROWN CASTLE SITE ID: 807133
SITE ADDRESS: 95 HIGH ST
PORTLAND, CT 06480

SHEET TITLE:
E-1: GROUNING AND ELECTRICAL DETAILS

Exhibit D

T-Mobile DC Diesel Generators 15kW and 25kW





Contents

1

Overview & General Specifications

2

Block Diagrams

3

Dimensions & Layouts

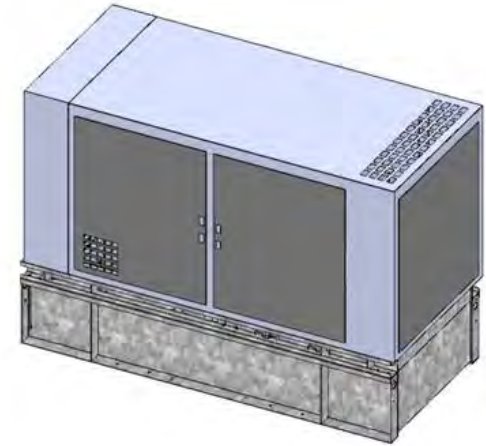


Features

- Intelligent and Friendly Monitoring by Remote Control (via SNMP)
- Longer Service Interval: >500hrs
- Low Acoustic Noise: <75dBA @ 7 meters
 - Optional Upgrades: <65dBA @ 7 meters

Longer Backup Time:	Tank	15kW @ 75% Load	25kW @ 75% Load
Standard	130 gallon	94 hours	72 hours
Upgraded	220 gallon	155 hours	120 hours

- Output Ripple < 250mV
- Battery Management – Temperature compensation,
Life management,
Precise Battery Current Limitation
- Corrosion Resistant
- Rodent Resistant



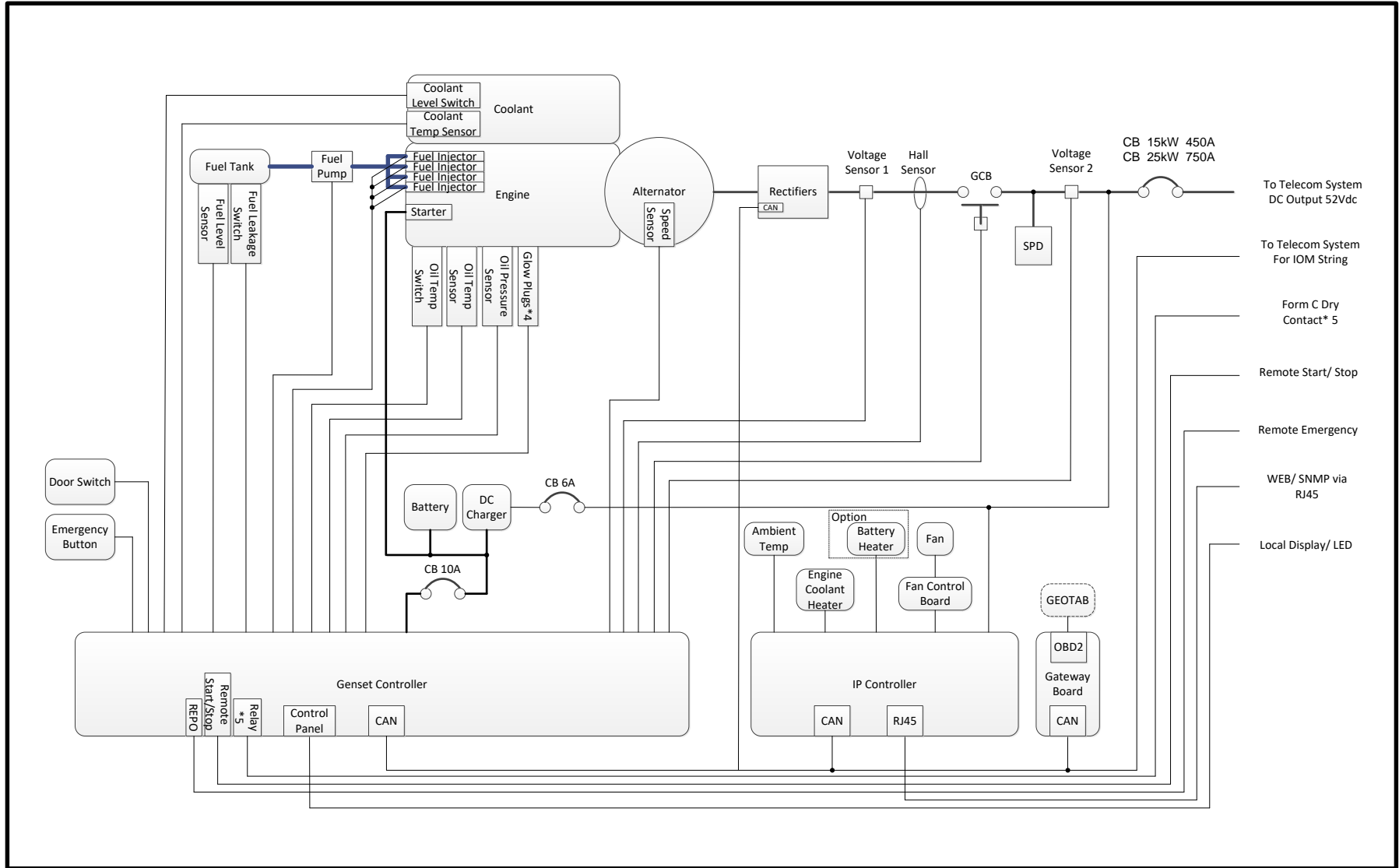


General Specification

Model	15kW DC	25kW DC
DC Output	52Vdc at 100% load	
Engine Model	Perkins Tier 4 Interim	
Engine Speed	1800rpm	
Weight (estimated)	1120kg (2470lb)	1320kg (2910lb)
Operating Temperature	-25°C to +45°C	
Safety	UL2200 / UL142	

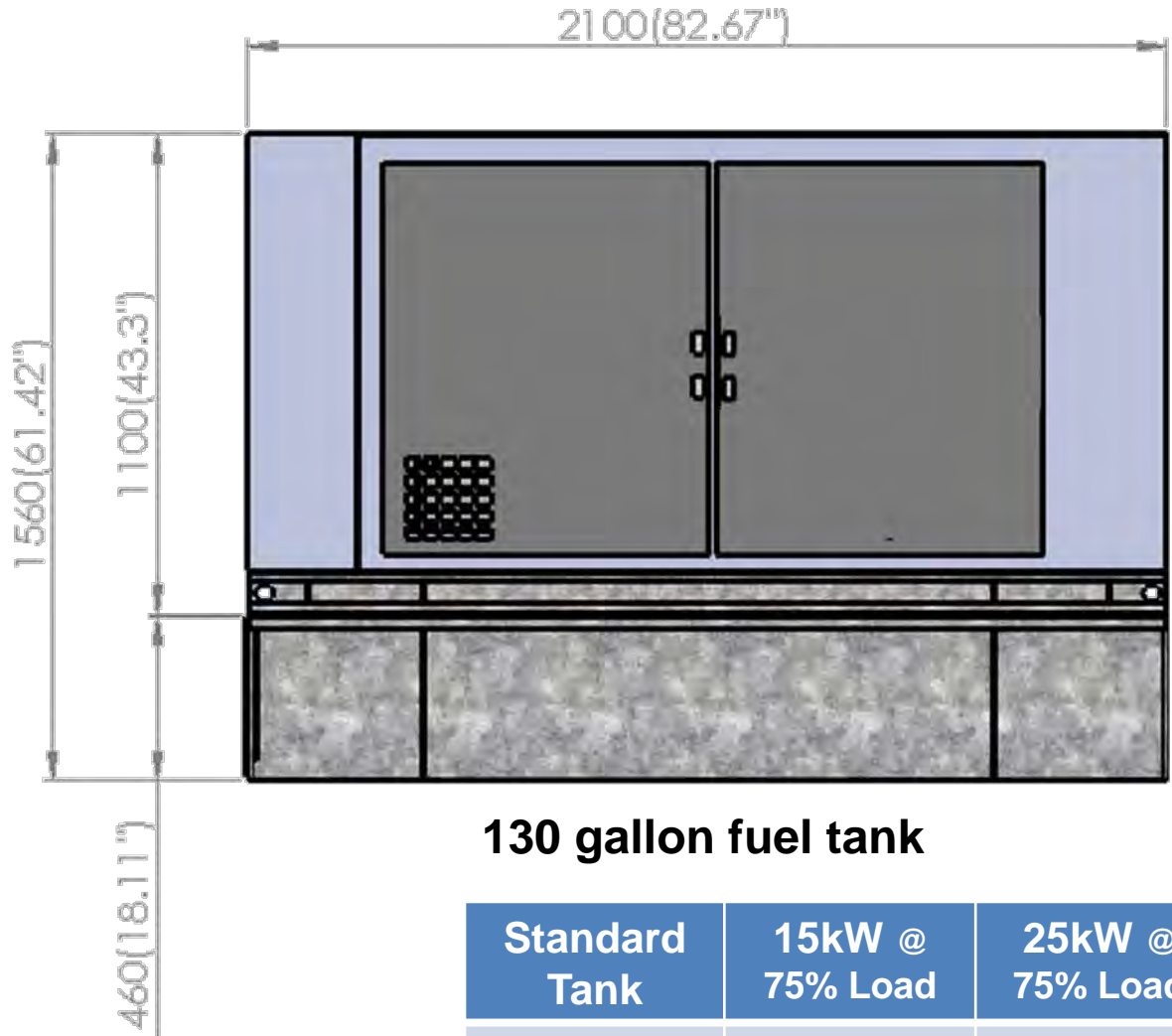
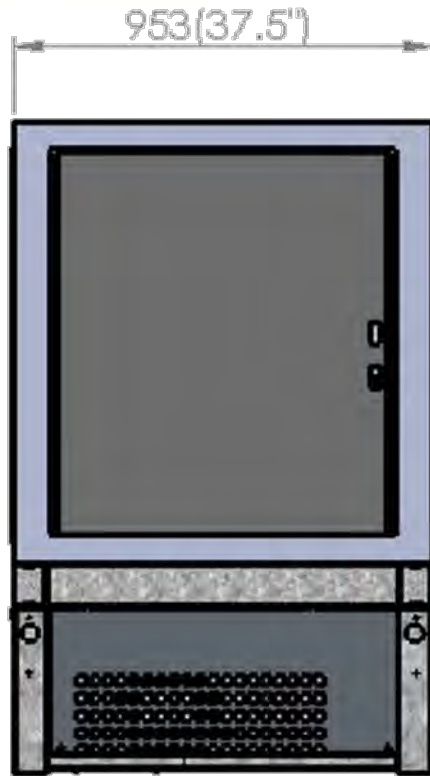


Block Diagram





130 Gallon Tank Dimensions 15kW or 25kW DC Genset

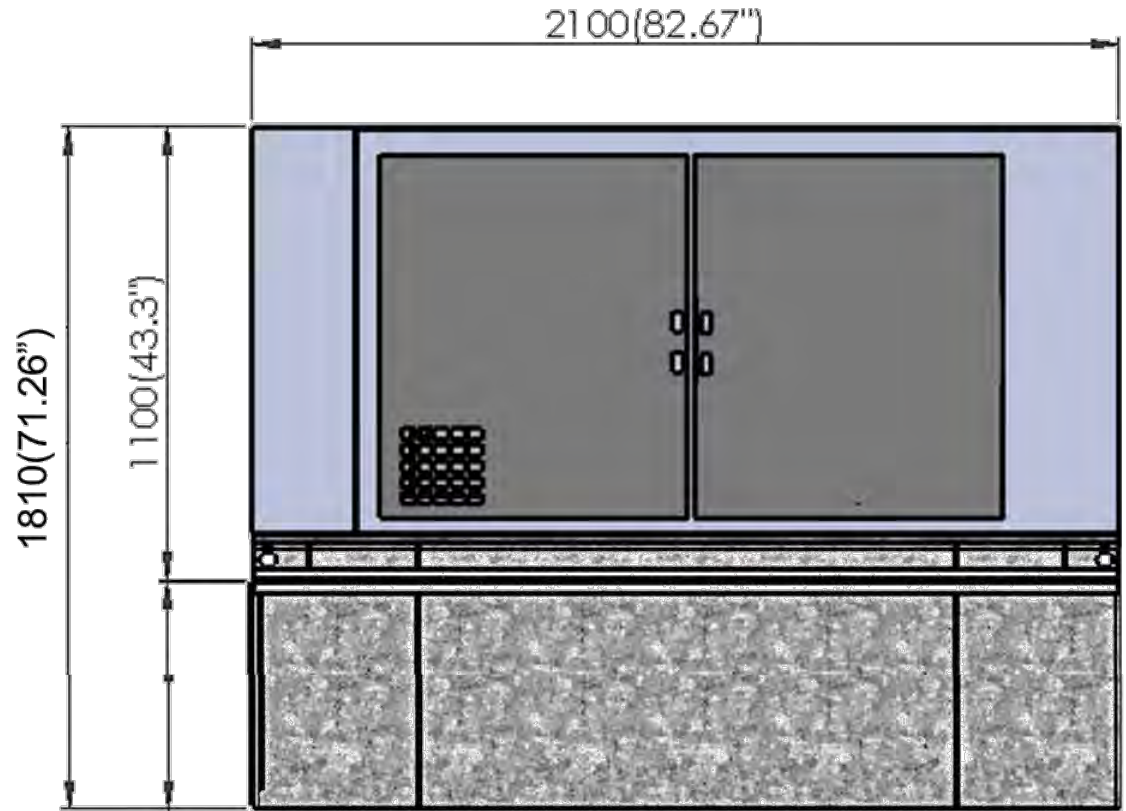


130 gallon fuel tank

Standard Tank	15kW @ 75% Load	25kW @ 75% Load
130 gallon	94 hours	72 hours



220 Gallon Tank Dimensions 15kW or 25kW DC Genset

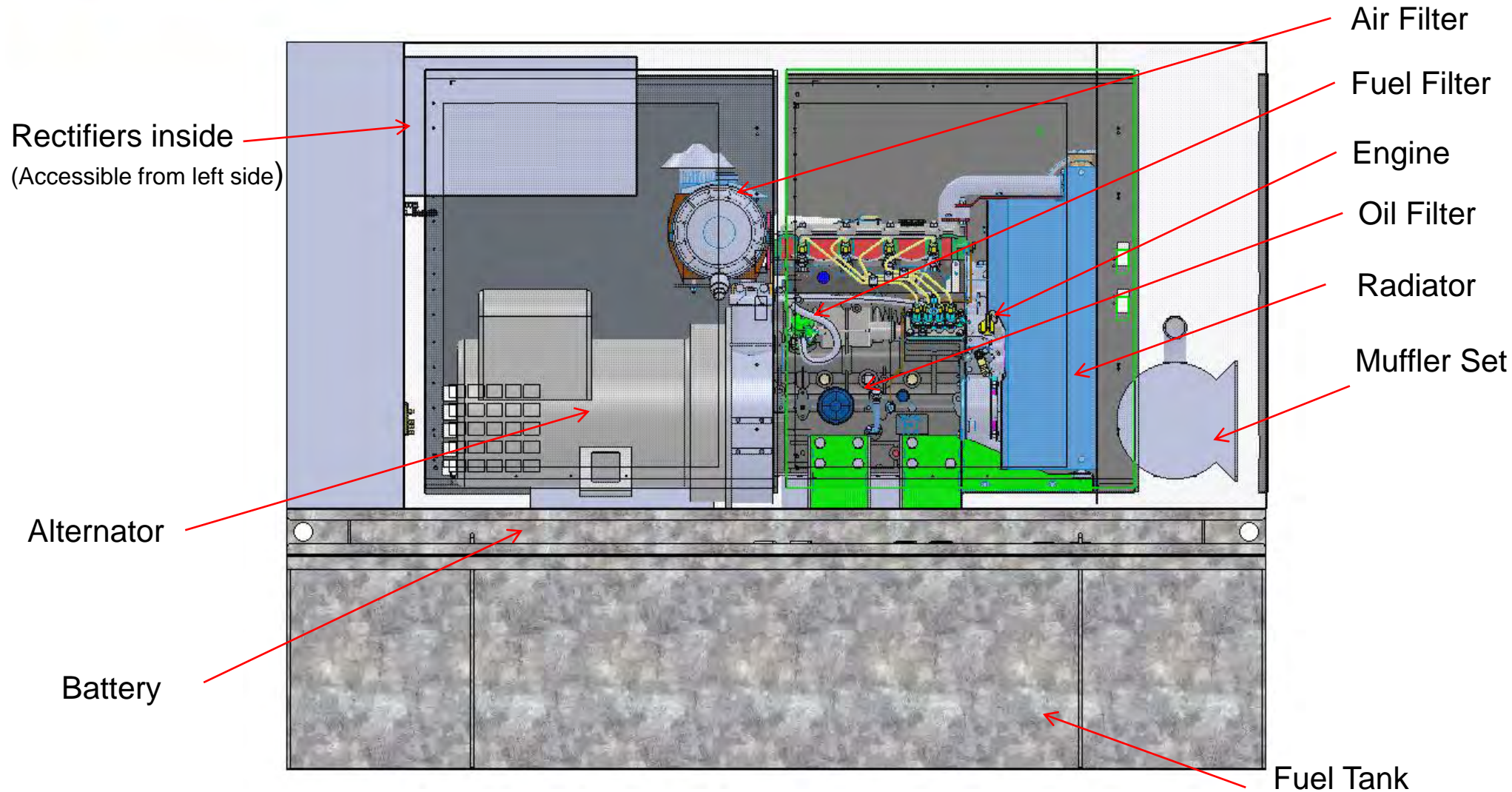


220 gallon fuel tank

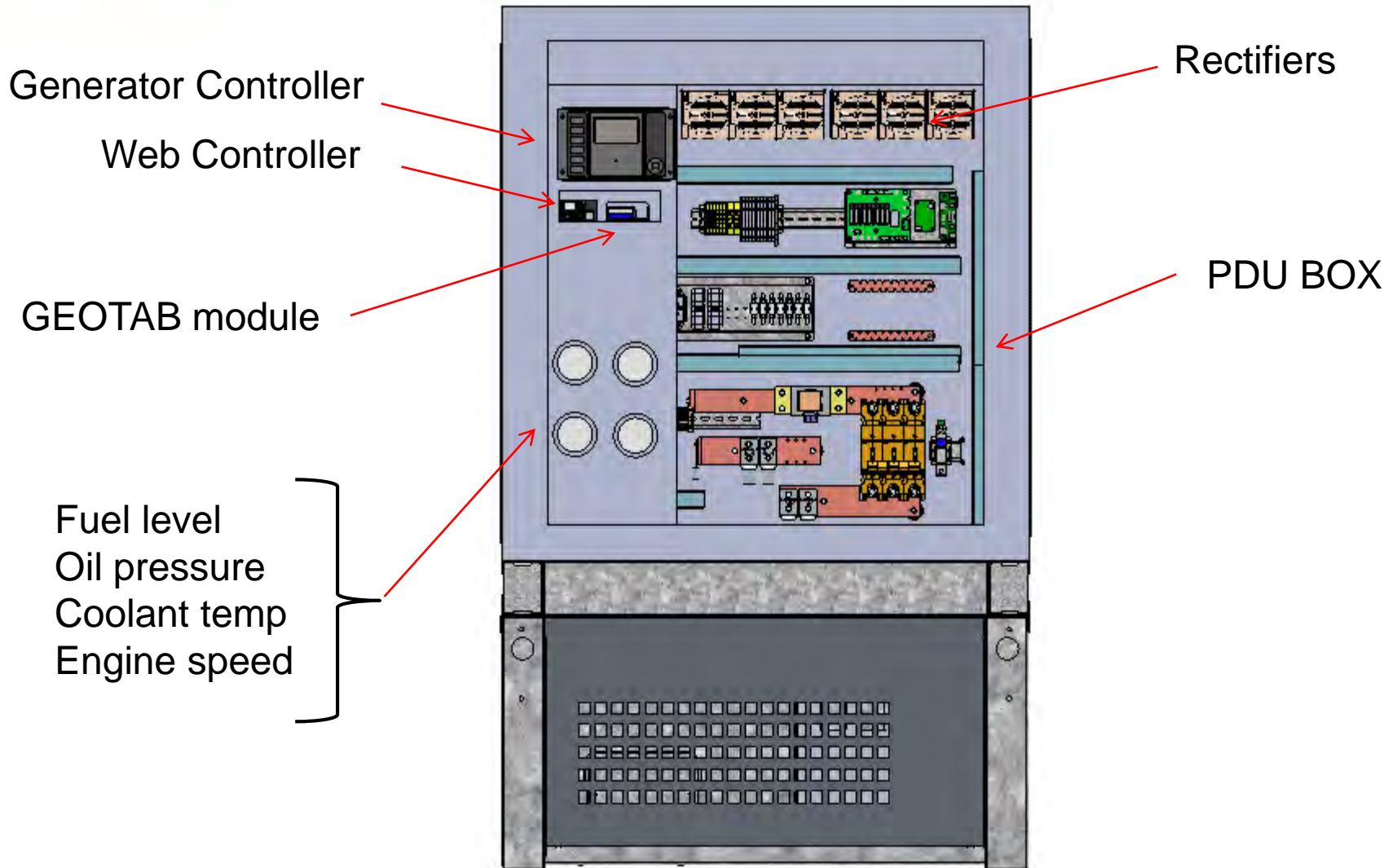
Upgraded Tank	15kW @ 75% Load	25kW @ 75% Load
220 gallon	155 hours	120 hours



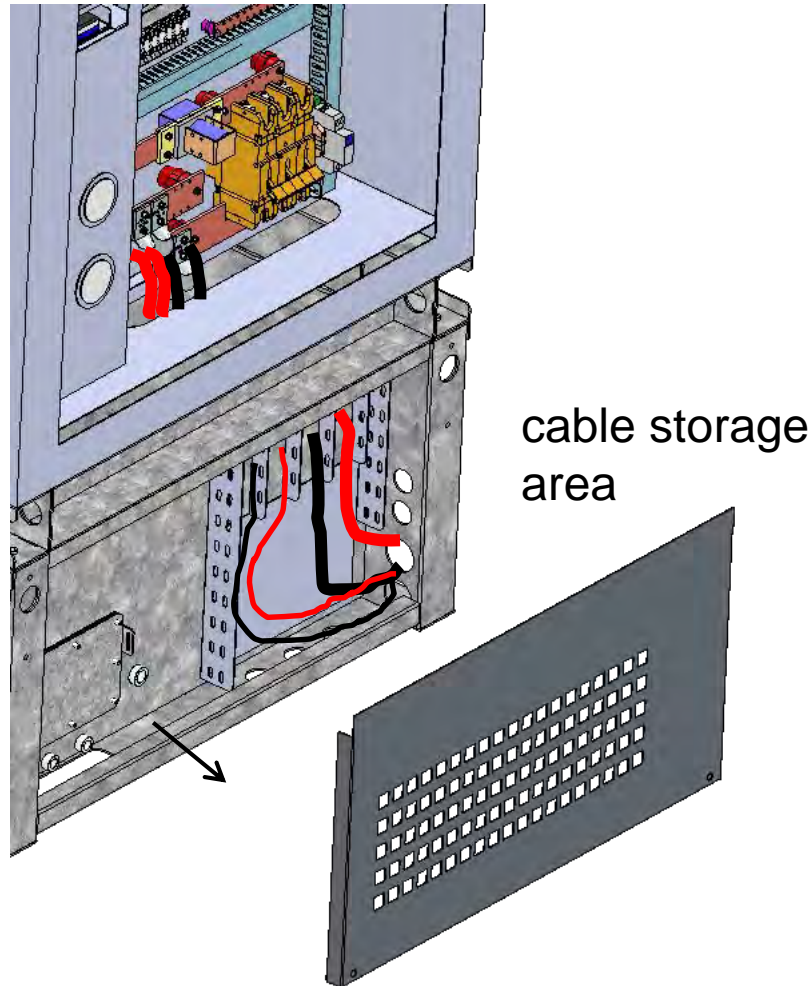
Generator Layout Front View



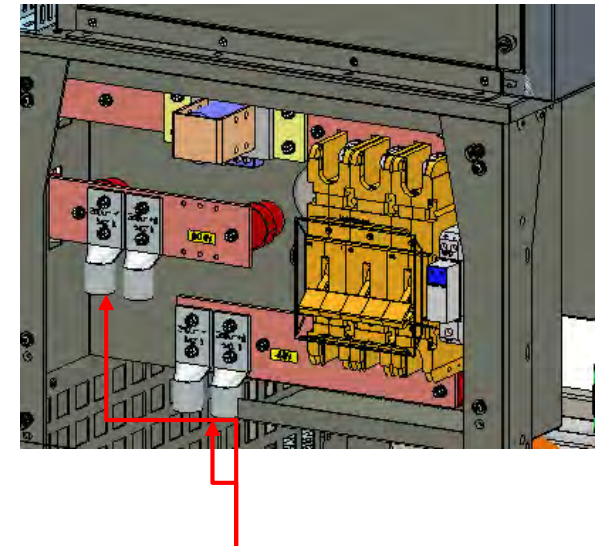
Left Side View



Cable Connections

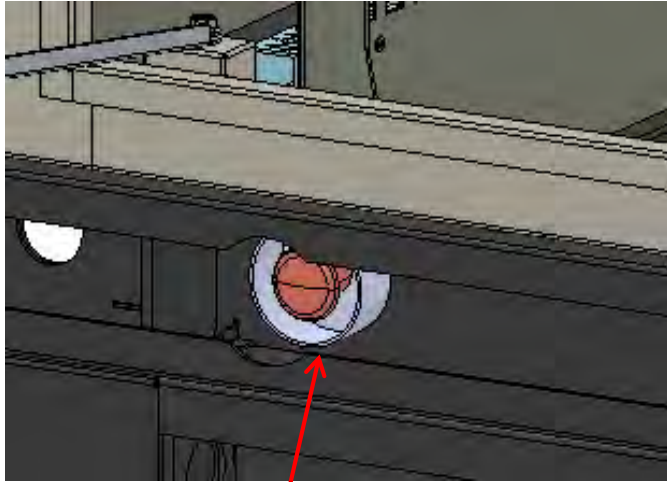


DC output busbar and breaker



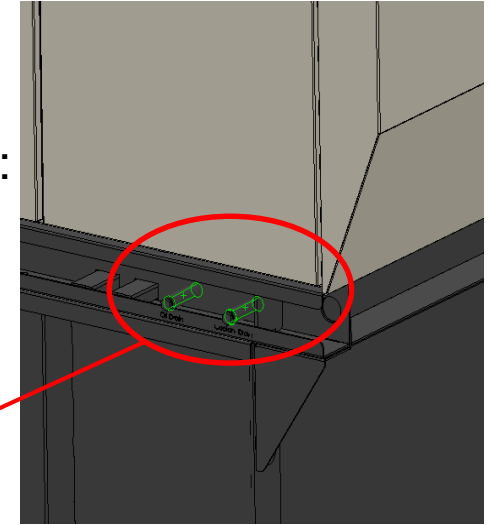
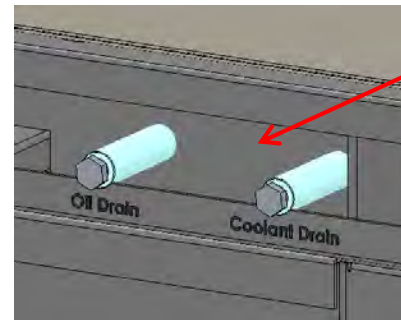
redundant landings for portable generator connection

External Detail

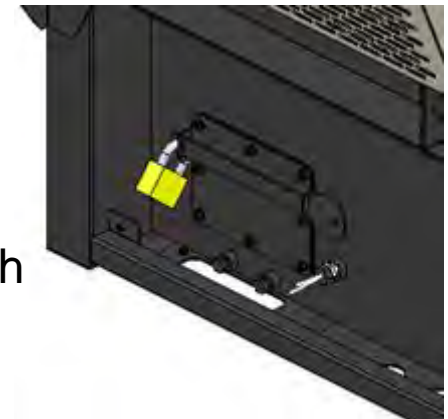


Front Bottom Left Side:
Emergency shutdown
switch externally mounted

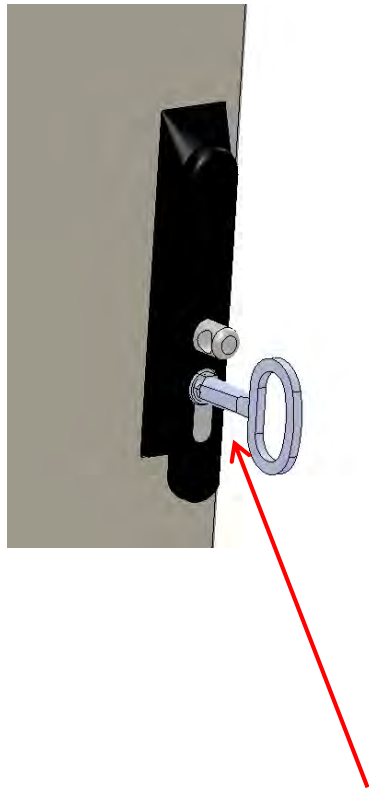
Front Bottom Right Side:
External coolant, and
oil drains with plugs



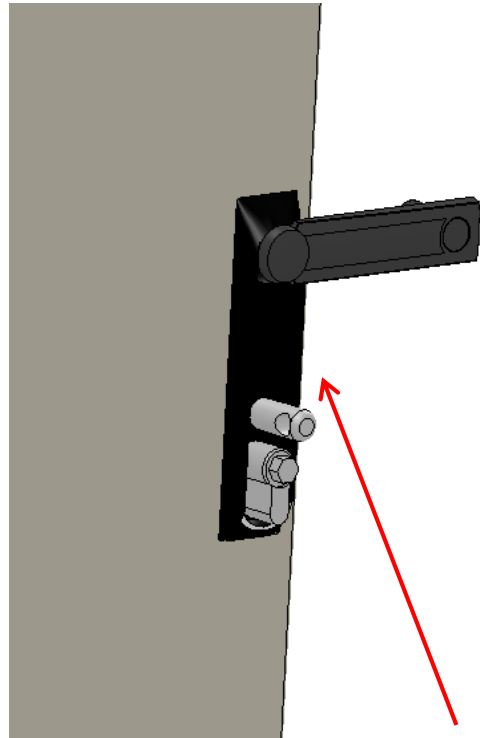
Right Side Panel:
Ball valve drain switch
inside with a padlock



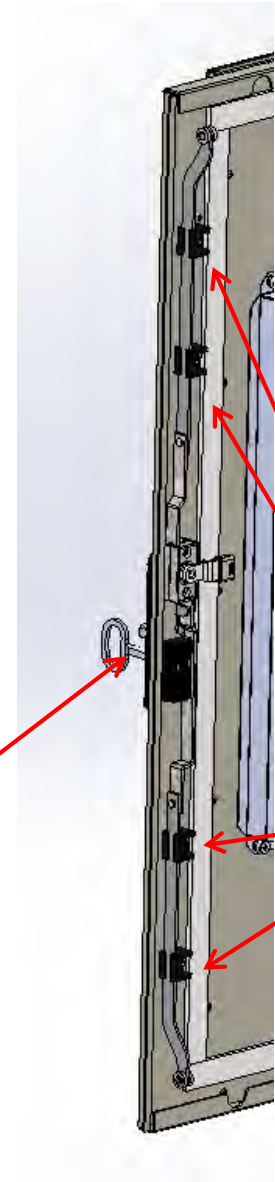
Higher Locking Method



twist key to release handle

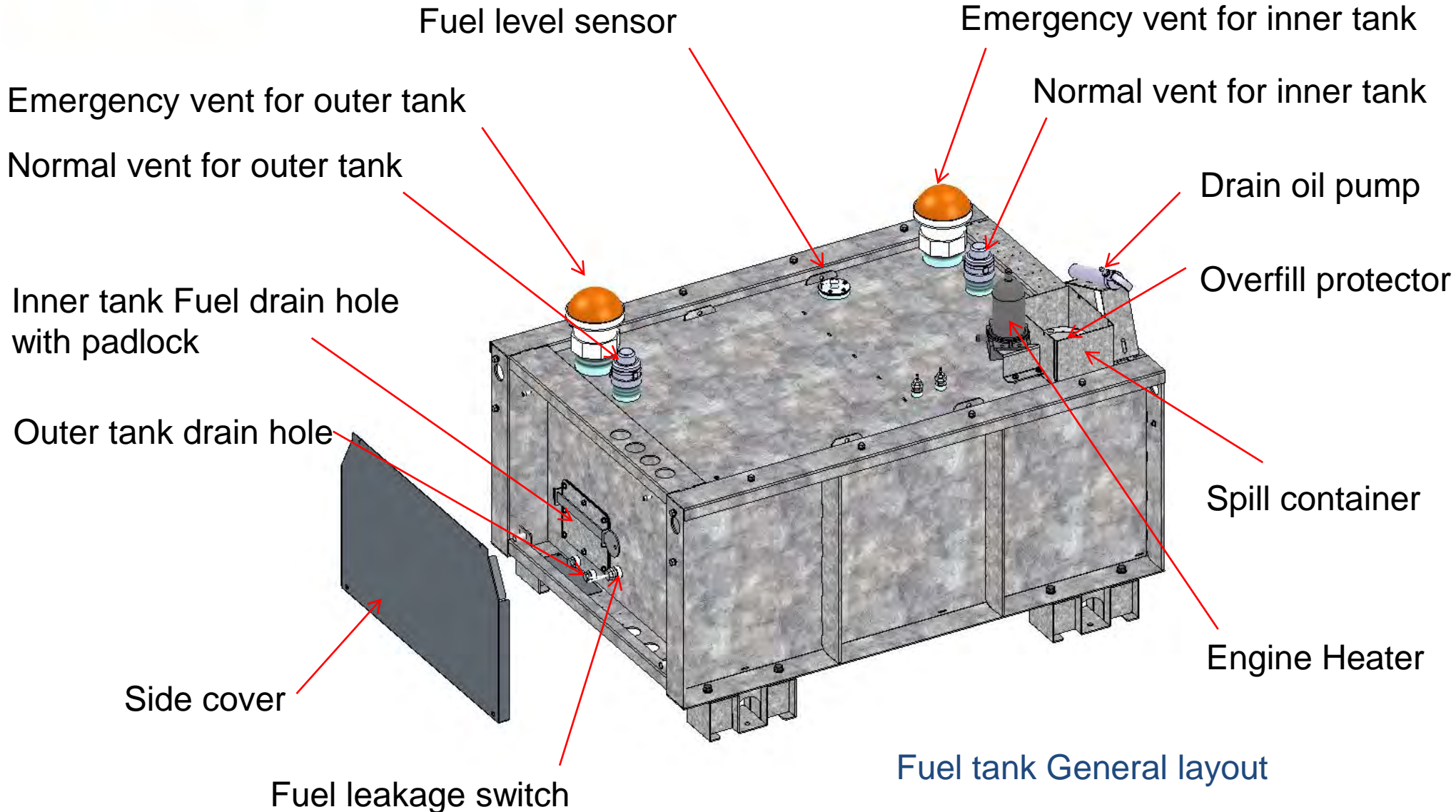


twist handle to release connecting bar



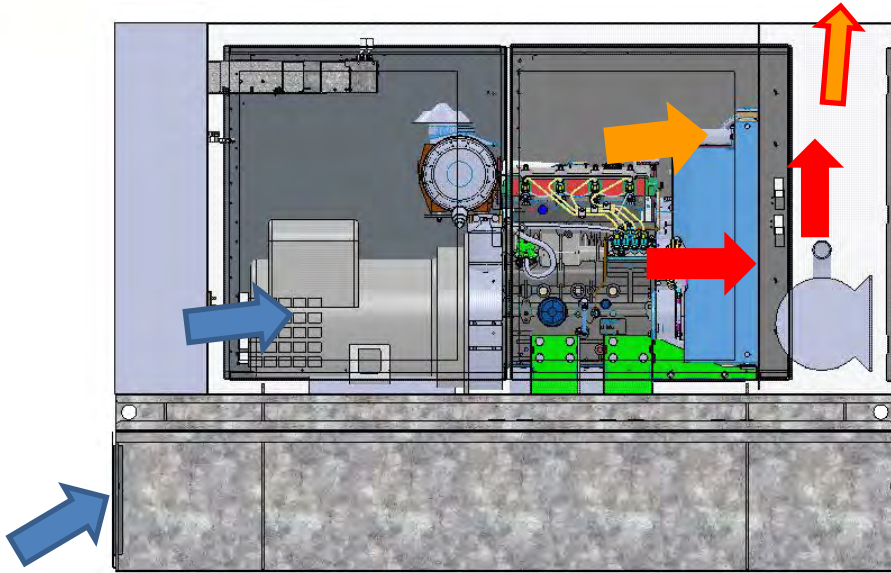
4 positions to lock the door

Fuel Tank Detail

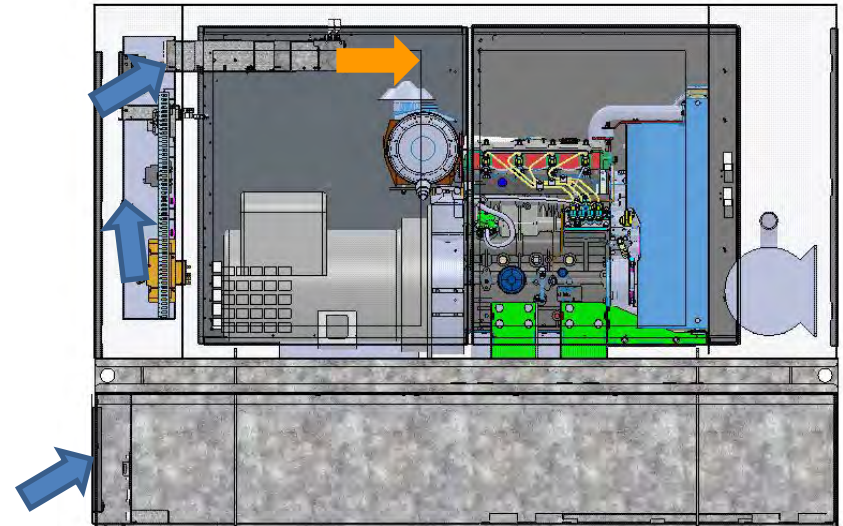


Fuel tank General layout





Air Flow



**Front View
Air flow for engine**



**Front View
Air flow for Rectifier**

-  Cool air intake
-  Warm air exhaust
-  Hot air exhaust
-  Mixed cooler exhaust air

Controllers

Generator controller provides local user interface



IP controller provides WEB and SNMP via RJ45




Local User Interface

1 See next page for Screen shot



1. Controller LCD Display
2. Stop Button
3. Start Button
4. Manual Button ON/OFF DC Output Contactor
LED Indication – Run and Output connected.
5. Alarm reset
6. Skip Buzzer Button
7. Menu Button
8. Up/Down and Left/Right Direct Button
9. Enter Button

Local User Interface Screen

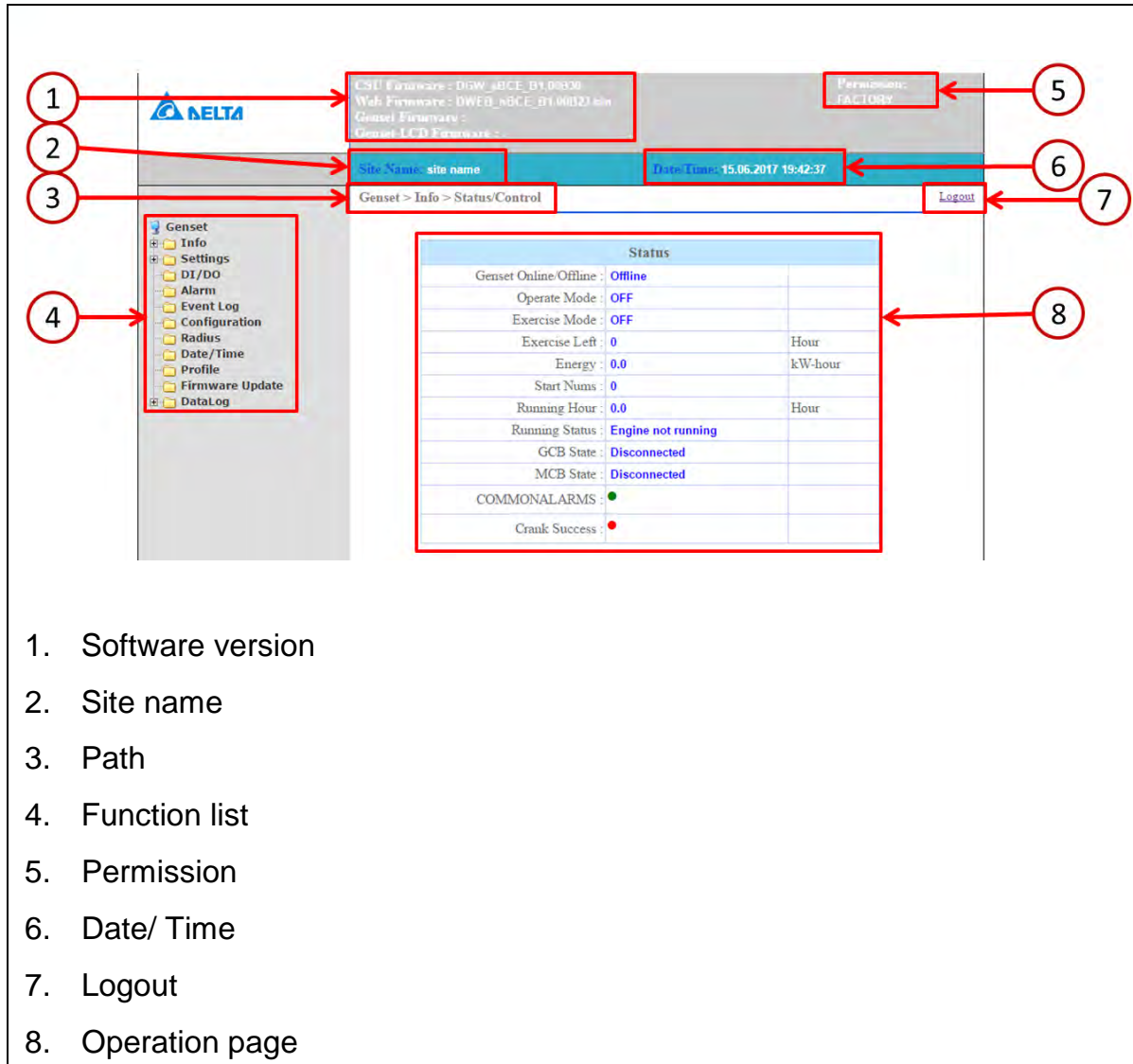


The screenshot displays a green LCD screen with the following information:

- 1. Generator output power: 0.0kW
- 2. Generator output voltage: 0.0V
- 3. Generator output current: 0.0A
- 4. Alternator output voltage: 0.0V
- 5. Operative mode: MANUAL
- 6. Running status: Brks Off, Not ready
- 7. Counter: Timer 0s
- 8. Speed: RPM 0

1. Generator output power
2. Generator output voltage
3. Generator output current
4. Alternator output voltage
5. Operative mode
6. Running status
7. Counter
8. Speed

WEB Interface



The screenshot shows the DELTA web interface for a Genset. The interface includes a header with software versions, a navigation menu on the left, a breadcrumb trail, and a main content area displaying the 'Status' page. Eight numbered callouts (1-8) point to specific elements:

- 1: Software version information (CSU Firmware, Web Firmware, Genset Firmware, Genset LCD Firmware)
- 2: Site name field (Site Name: site name)
- 3: Breadcrumb path (Genset > Info > Status/Control)
- 4: Function list (Navigation menu: Info, Settings, DI/DO, Alarm, Event Log, Configuration, Radius, Date/Time, Profile, Firmware Update, DataLog)
- 5: Permission field (Permission: FACTORY)
- 6: Date/Time field (Date/Time: 15.06.2017 19:42:37)
- 7: Logout button
- 8: Operation page (Status table)

Status	
Genset Online/Offline :	Offline
Operate Mode :	OFF
Exercise Mode :	OFF
Exercise Left :	0 Hour
Energy :	0.0 kW-hour
Start Num :	0
Running Hour :	0.0 Hour
Running Status :	Engine not running
GCB State :	Disconnected
MCB State :	Disconnected
COMMONALARMS :	●
Crank Success :	●


1. Software version
2. Site name
3. Path
4. Function list
5. Permission
6. Date/ Time
7. Logout
8. Operation page

Smarter. Greener. Together.

To learn more about Delta, please visit www.deltaww.com



Exhibit E




**UNITED STATES
POSTAL SERVICE®**

Click-N-Ship®

P

usps.com
US POSTAGE
Flat Rate Env

9405 5036 9930 0223 4457 31 0073 5000 0010 6480



01/07/2020

Mailed from 06002 062S0000000313

PRIORITY MAIL 1-DAY™

Expected Delivery Date: 01/08/20
 Ref#: HA242-NHP
0024

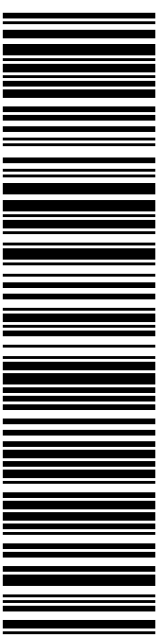
DEBORAH CHASE
 T-MOBILE USA- NSS
 35 GRIFFIN RD S
 BLOOMFIELD CT 06002-4600

Carrier -- Leave if No Response

B001

SHIP TO: DAN BOURETT
 ZONING ENFORCEMENT OFFICER
 PO BOX 71
 PORTLAND CT 06480-0071

USPS TRACKING #



9405 5036 9930 0223 4457 31

Electronic Rate Approved #038555749



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 0223 4457 31

Trans. #: 481397134	Priority Mail® Postage: \$7.35
Print Date: 01/07/2020	Total: \$7.35
Ship Date: 01/07/2020	
Expected Delivery Date: 01/08/2020	

From: DEBORAH CHASE
 T-MOBILE USA- NSS
 35 GRIFFIN RD S
 BLOOMFIELD CT 06002-4600


Ref#: HA242-NHP

To: DAN BOURETT
 ZONING ENFORCEMENT OFFICER
 PO BOX 71
 PORTLAND CT 06480-0071

* 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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 Flat Rate Env
 \$7.35

9405 5036 9930 0223 4457 55 0073 5000 0010 6480



01/07/2020 Mailed from 06002 062S0000000309

PRIORITY MAIL 1-DAY™

Expected Delivery Date: 01/08/20
Ref#: HA242-NHP
0024

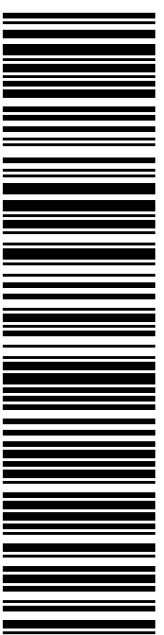
DEBORAH CHASE
T-MOBILE/NSS
35 GRIFFIN RD S
BLOOMFIELD CT 06002-4600

Carrier -- Leave if No Response

B001

SHIP TO: SUSAN S BRANSFIELD
FIRST SELECTWOMAN-PORTLAND
PO BOX 71
PORTLAND CT 06480-0071

USPS TRACKING #



9405 5036 9930 0223 4457 55

Electronic Rate Approved #038555749



Cut on dotted line.

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Click-N-Ship® Label Record

USPS TRACKING # :
9405 5036 9930 0223 4457 55

Trans. #: 481397134	Priority Mail® Postage: \$7.35
Print Date: 01/07/2020	Total: \$7.35
Ship Date: 01/07/2020	
Expected Delivery Date: 01/08/2020	

From: DEBORAH CHASE
T-MOBILE/NSS
35 GRIFFIN RD S
BLOOMFIELD CT 06002-4600


Ref#: HA242-NHP

To: SUSAN S BRANSFIELD
FIRST SELECTWOMAN-PORTLAND
PO BOX 71
PORTLAND CT 06480-0071

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 \$7.35

9405 5036 9930 0223 4457 62 0073 5000 0010 6480



01/07/2020

Mailed from 06002 062S0000000314

PRIORITY MAIL 1-DAY™

Expected Delivery Date: 01/08/20

DEBORAH CHASE
 T-MOBILE/NSS
 35 GRIFFIN RD S
 BLOOMFIELD CT 06002-4600

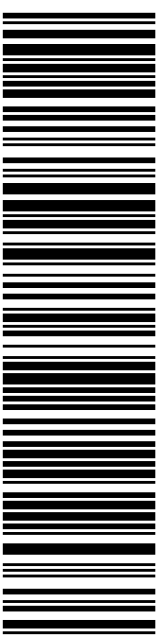
0024

Carrier -- Leave if No Response

B001

SHIP
 TO: ASHLEY MAJOROWSKI
 TOWN OF PORTLAND, CT
 PO BOX 71
 PORTLAND CT 06480-0071

USPS TRACKING #



9405 5036 9930 0223 4457 62

Electronic Rate Approved #038555749



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Instructions

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From: DEBORAH CHASE
 T-MOBILE/NSS
 35 GRIFFIN RD S
 BLOOMFIELD CT 06002-4600

To: ASHLEY MAJOROWSKI
 TOWN OF PORTLAND, CT
 PO BOX 71
 PORTLAND CT 06480-0071

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