



Filed by:

G. Scott Shepherd, Sr. Property Specialist - SBA Communications  
134 Flanders Rd., Suite 125, Westborough, MA 01581  
508.251.0720 x 3807 - GShepherd@sbsite.com

January 25, 2022

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

**RE: Notice of Exempt Modification**  
**229 Cheshire Rd., Prospect, CT**  
**Latitude: 41.5079**  
**Longitude: -72.9510**  
**T-Mobile Site #: CTNH303A\_Hardening**

Dear Ms. Bachman:

T-Mobile currently maintains nine (9) antennas currently installed at the 160-foot level of the existing 150-foot Monopole Tower at **229 Cheshire Rd., Prospect, CT**. The tower is owned by SBA Towers, LLC. The property is owned by the Kathan W. Boardman. T-Mobile now intends to add one (1) Generac RD048 Diesel generator and a 4' x 10' concrete pad, within a 61' x 69' fenced compound lease area. The proposed generator and concrete pad will sit fully within the leased area of the compound and will not require additional space for the supplementary tank.

## **Ground**

### Install New:

- (1) Generac RD048 48kw Diesel generator
- (1) 2" RGS conduit for Ethernet cable for generator controls & Alarms
- (1) 2" RGS conduit for emergency power
- (1) 1-1/2" RGS conduit for generator heater & Battery charger
- (1) 4' x 10' concrete pad
- (1) 2" RGS conduit for emergency power from proposed ATS to Existing PPC
- Generac 200A, 120/240v automatic transfer switch to proposed H-Frame



Remaining:

- T-Mobile GPS Antenna
- T-Mobile Ice Bridge
- Cables routed along Ice Bridge
- Existing 10' x 20' concrete pad
- Existing S12000 Cabinet
- Ericsson RBS 6131 Equip. Cabinet

**Reason for Request / Change in Generator Size and Fuel**

In an effort to further enhance network reliability, T-Mobile is proposing to install a diesel-based backup generator, the Generac RD048 48kw Diesel Generator. T-Mobile is currently in the middle of a National Hardening Project.

The proposed diesel generator measures 103.4" x 35" x 90" including tank. It will sit fully within the leased area of the compound and will not require additional space for the supplementary tank.

Generac's RD048 48kw Diesel Generator carries up to 52 hours of run time with 100% load, 67 hours of run time with a 75% load and 96 hours of run time with a 50% load. It can operate in temperatures of 122 degrees Fahrenheit.

**Monitoring, Prevention and Containment Measures**

It will be filled by a licensed fuel filling company. The Generac's RD048 48kw Diesel Generator is fuel efficient, rodent and corrosion resistant, and has a sound attenuated aluminum enclosure with a Rated Load Sound Output at 23ft. of -65dB. It further supports advanced, remote monitoring for diagnostics and control and is installed with a tank alarm system. The Sound Output from the Generac RD048kw meets/exceeds the allowable noise emissions levels for the Town of Prospect, CT, which is as follows:

**Maximum Continuous Noise Levels (measured in dBA):**

1. No person shall cause or allow the emission of excessive noise beyond the boundaries of his/her noise zone as measured at any point on a receptor's tract or parcel of land, so as to exceed the levels stated herein:



### Receptor Noise Zone Class

	C	B	A-Day	A- Night
Industrial	70dBA	66dBA	61dBA	51dBA
Business	62dBA	62dBA	55dBA	45dBA
Residential	62dBA	55dBA	55dBA	45dBA

The proposed modification will remain within the existing 61' x 69' fenced compound. The new generator and tank will be surrounded by the existing security fence and double swing gate and will be placed on a plinth secured to a proposed 4' x 10' concrete pad.

Additional safety specifications:

- Automatic Voltage Regulation with Over and Under Protection
- Overspeed Shutdown
- High Temperature Shutdown
- Meets ANSI/IEEE C62.41, SA CSA 22.2, SAE J1349, NFPA 37, 70 99

**Revised Construction Drawings and Full Spec Sheets referencing the above are attached herewith.**

The revised ground configuration continues to meet all requirements for a Notice of Exempt Modifications. The request remains technically, legally, environmentally, and economically feasible and meets public safety concerns per Connecticut General Statute Section 16-50aa.

There is no environmental impact associated with the revised ground configuration, including, but not limited to, visibility, wetlands and water resources, air quality or noise.

T-Mobile's revised ground configuration:

- Will not have any significant adverse visual impact on the surrounding areas
- Does not affect or alter the existing site with regard to wetlands, water resources or air quality
- The generator would only be used in cases of emergency and would provide backup time of approximately 60 hours in time of need.

The proposed work is not thought to have any substantial adverse environmental impact. Public Need for the additional coverage outweighs any minor environmental effects that would result from the construction, operation, and maintenance of the proposed collocation.

**A Map of the Site Showing Nearest Wetlands, depicted in feet, is attached herewith.**



Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. §16.50j-72(b)(2). In accordance with R.C.S.A. § 16.50j-73, a copy of this letter is being sent to the Town of Prospect's Mayor, Robert J. Chatfield, Building Inspector, Seth Flynn, as well as to the property owner. (Separate notice is not being sent to tower owner, as it belongs to SBA.)

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 modification 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 modification 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 telecommunication facility constitute an exempt modifications under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,

G. Scott Shepherd  
Sr. Property Specialist  
SBA COMMUNICATIONS CORPORATION  
134 Flanders Rd., Suite 125  
Westborough, MA 01581  
508.251.0720 x3807 + T  
508.366.2610 + F  
508.868.6000 + C  
[GShepherd@sbsite.com](mailto:GShepherd@sbsite.com)

#### Attachments

cc: Robert J. Chatfield, Mayor / with attachments  
Town of Prospect, 36 Center St., Prospect, CT 06712  
Seth Flynn, Building Inspector/ with attachments  
Town of Prospect, 36 Center St., Prospect, CT 06712  
Kathan W. Boardman / with attachments  
229 Cheshire Rd., Prospect, CT 06712-1746 (SBA address on file)



Exhibit List

Exhibit 1	Check Copy	x
Exhibit 2	FedEx Labels	x
Exhibit 3	Property Card	x
Exhibit 4	Property Map	x
Exhibit 5	Zoning Documents	Town of Prospect Special Permit 10/20/99, zoning approval 10/22/99
Exhibit 6	Construction Drawings	Chappell 10/24/22
Exhibit 7	Generator Specifications	x
Exhibit 8	Wetlands Map	x

# EXHIBIT 1

Copy of Check for filing fee.

# EXHIBIT 2

## FedEx Labels

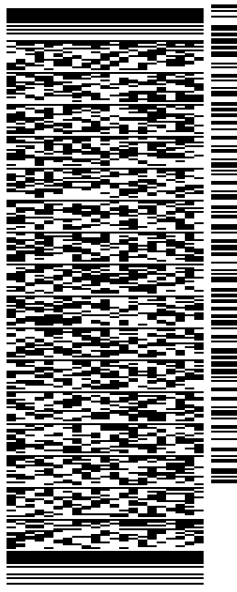
ORIGIN ID:BFBA (508) 614-0389  
RICK WOODS  
SBA COMMUNICATIONS CORPORATION  
134 FLANDERS RD  
SUITE 125  
WESTBOROUGH, MA 01581  
UNITED STATES US

SHIP DATE: 25 JAN 22  
ACTWGT: 2.00 LB  
CAD: 105843304/NET4460  
BILL SENDER

TO MELANIE A. BACHMAN EXEC. DIR  
CONNECTICUT SITING COUNCIL  
TEN FRANKLIN SQUARE

NEW BRITAIN CT 06051

(508) 251-0720 X 3807 REF: 105692009-6089  
INV. PO. DEPT:

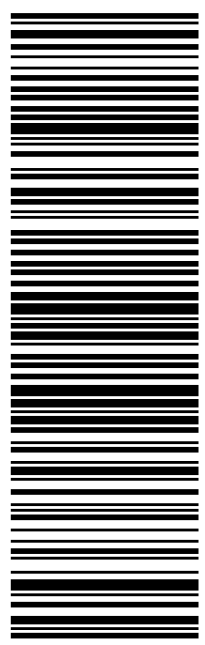


J221022010501uv

TRK# 7758 5038 3671  
0201

WED - 26 JAN 10:30A  
PRIORITY OVERNIGHT

EBBDLA 06051  
CT-US BDL



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TRACK ANOTHER SHIPMENT

775850383671



[ADD NICKNAME](#)

ON TIME

Scheduled delivery:  
Wednesday, 1/26/2022 before 10:30 am



**PICKED UP**  
FRAMINGHAM, MA

[GET STATUS UPDATES](#)

**FROM**  
SBA COMMUNICATIONS CORPORATION  
Rick Woods  
134 Flanders Rd  
Suite 125  
WESTBOROUGH, MA US 01581  
508-614-0389

**TO**  
Melanie A. Bachman Exec. Dir  
Connecticut Siting Council  
Ten Franklin Square  
NEW BRITAIN, CT US 06051  
508-251-0720

[MANAGE DELIVERY](#)

Travel History

Shipment Facts

### Travel History

**TIME ZONE**  
Local Scan Time



Tuesday, January 25,  
2022

3:27 PM	FRAMINGHAM, MA	Picked up
3:20 PM	WESTBOROUGH, MA	Picked up Tendered at FedEx Office
11:38 AM		Shipment information sent to FedEx

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### Shipment Facts

<b>TRACKING NUMBER</b> 775850383671	<b>SERVICE</b> FedEx Priority Overnight	<b>WEIGHT</b> 2 lbs / 0.91 kgs
<b>TOTAL PIECES</b> 1	<b>TOTAL SHIPMENT WEIGHT</b> 2 lbs / 0.91 kgs	<b>TERMS</b> Shipper
<b>SHIPPER REFERENCE</b> 10-56-92009-6089	<b>PACKAGING</b> FedEx Pak	<b>SPECIAL HANDLING SECTION</b> Deliver Weekday
<b>ACTUAL PICK UP</b> 1/25/22 <a href="#">?</a>	<b>STANDARD TRANSIT</b> 1/26/22 before 10:30 am <a href="#">?</a>	<b>SCHEDULED DELIVERY</b> 1/26/22 before 10:30 am

- All (30)
- Inbound (11)
- Outbound (19)
- Watch list (0)

ORIGIN ID:BFBA (508) 614-0389  
RICK WOODS  
SBA COMMUNICATIONS CORPORATION  
134 FLANDERS RD  
SUITE 125  
WESTBOROUGH, MA 01581  
UNITED STATES US

SHIP DATE: 25 JAN 22  
ACTWGT: 1.00 LB  
CAD: 105843304/NET4460  
BILL SENDER

TO  
**ROBERT J. CHATFIELD**  
**TOWN OF PROSPECT**  
**MAYOR**  
**36 CENETR ST**  
**PROSPECT CT 06712**  
(508) 251-0720 X 3807  
INV#  
PO:  
DEPT:

REF: 1056-92009-6089

56DJ4/F289/FE4A



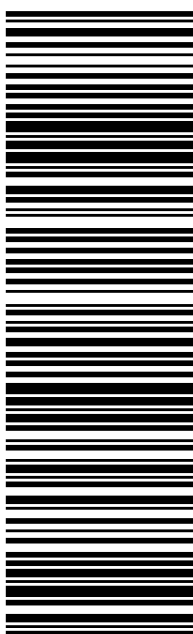
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TRK#  
0201  
**7758 5043 0832**

**WED - 26 JAN 10:30A**  
**PRIORITY OVERNIGHT**

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775850430832



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Wednesday, 1/26/2022 before 10:30 am



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**FROM**  
SBA COMMUNICATIONS CORPORATION  
Rick Woods  
134 Flanders Rd  
Suite 125  
WESTBOROUGH, MA US 01581  
508-614-0389

**TO**  
Robert J. Chatfield  
Town of Prospect  
Mayor  
36 Cenertr St  
PROSPECT, CT US 06712  
508-251-0720

[MANAGE DELIVERY](#)

Travel History

Shipment Facts

### Travel History

**TIME ZONE**  
Local Scan Time



Tuesday, January 25,  
2022

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3:20 PM	WESTBOROUGH, MA	Picked up Tendered at FedEx Office
11:41 AM		Shipment information sent to FedEx

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### Shipment Facts

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<b>TOTAL PIECES</b> 1	<b>TOTAL SHIPMENT WEIGHT</b> 0.5 lbs / 0.23 kgs	<b>TERMS</b> Shipper
<b>SHIPPER REFERENCE</b> 10-56-92009-6089	<b>PACKAGING</b> FedEx Envelope	<b>SPECIAL HANDLING SECTION</b> Deliver Weekday
<b>ACTUAL PICK UP</b> 1/25/22 <a href="#">?</a>	<b>STANDARD TRANSIT</b> 1/26/22 before 10:30 am <a href="#">?</a>	<b>SCHEDULED DELIVERY</b> 1/26/22 before 10:30 am

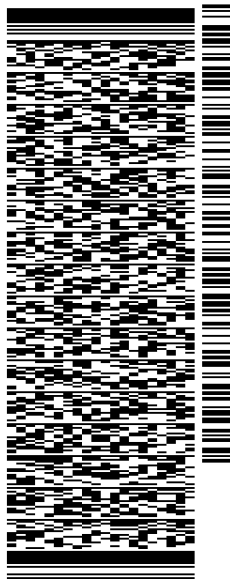
- All (30)
- Inbound (11)
- Outbound (19)
- Watch list (0)

ORIGIN ID:BFBA (508) 614-0389  
RICK WOODS  
SBA COMMUNICATIONS CORPORATION  
134 FLANDERS RD  
SUITE 125  
WESTBOROUGH, MA 01581  
UNITED STATES US

SHIP DATE: 25 JAN 22  
ACTWGT: 1.00 LB  
CAD: 105843304/NET4460  
BILL SENDER

TO  
**SETH FLYNN**  
**TOWN OF PROSPECT**  
**BUILDING INSPECTOR**  
**36 CENETR ST**  
**PROSPECT CT 06712**  
(508) 251-0720 X 3807  
REF: 105692009-6089  
PO: DEPT:

56DJ4/F289/FE4A



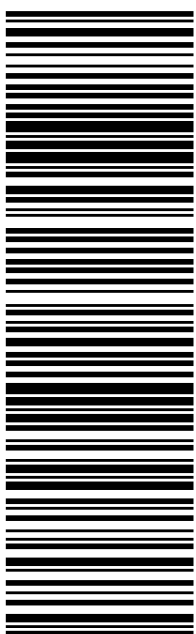
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TRK# 7758 5046 0743  
0201

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PRIORITY OVERNIGHT

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06712  
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775850460743



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Wednesday, 1/26/2022 before 10:30 am



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SBA COMMUNICATIONS CORPORATION  
Rick Woods  
134 Flanders Rd  
Suite 125  
WESTBOROUGH, MA US 01581  
508-614-0389

**TO**  
Seth Flynn  
Town of Prospect  
Building Inspector  
36 Cenertr St  
PROSPECT, CT US 06712  
508-251-0720

[MANAGE DELIVERY](#)

Travel History

Shipment Facts

### Travel History

**TIME ZONE**  
Local Scan Time



Tuesday, January 25,  
2022

3:27 PM	FRAMINGHAM, MA	Picked up
3:20 PM	WESTBOROUGH, MA	Picked up Tendered at FedEx Office
11:42 AM		Shipment information sent to FedEx

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### Shipment Facts

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<b>TOTAL PIECES</b> 1	<b>TOTAL SHIPMENT WEIGHT</b> 0.5 lbs / 0.23 kgs	<b>TERMS</b> Shipper
<b>SHIPPER REFERENCE</b> 10-56-92009-6089	<b>PACKAGING</b> FedEx Envelope	<b>SPECIAL HANDLING SECTION</b> Deliver Weekday
<b>ACTUAL PICK UP</b> 1/25/22 <a href="#">?</a>	<b>STANDARD TRANSIT</b> 1/26/22 before 10:30 am <a href="#">?</a>	<b>SCHEDULED DELIVERY</b> 1/26/22 before 10:30 am

- All (30)
- Inbound (11)
- Outbound (19)
- Watch list (0)



ORIGIN ID:BFBA (508) 614-0389  
RICK WOODS  
SBA COMMUNICATIONS CORPORATION  
134 FLANDERS RD  
SUITE 125  
WESTBOROUGH, MA 01581  
UNITED STATES US

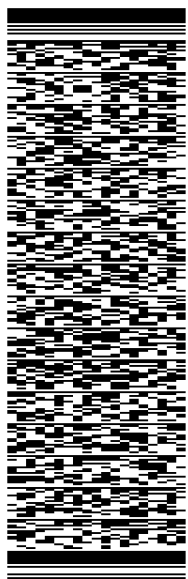
SHIP DATE: 25 JAN 22  
ACTWGT: 1.00 LB  
CAD: 105843304/NET4460  
BILL SENDER

TO **KATHAN W. BOARDMAN**

**229 CHESHIRE RD**

**PROSPECT CT 06712**

(508) 251-0720 X 3807 REF: 105692009-6089  
INV/ PO: DEPT:



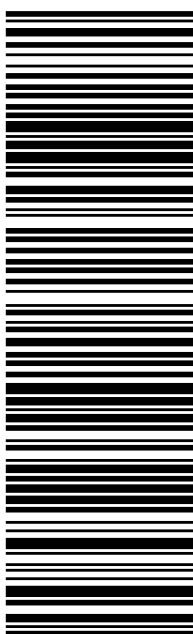
J221022010501uv

TRK# 7758 5053 1198  
0201

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PRIORITY OVERNIGHT

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TRACK ANOTHER SHIPMENT

775850531198



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Scheduled delivery:  
Wednesday, 1/26/2022 before 12:00 pm



**PICKED UP**  
FRAMINGHAM, MA

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**FROM**  
SBA COMMUNICATIONS CORPORATION  
Rick Woods  
134 Flanders Rd  
Suite 125  
WESTBOROUGH, MA US 01581  
508-614-0389

**TO**  
Kathan W. Boardman  
229 Cheshire Rd  
PROSPECT, CT US 06712  
508-251-0720

[MANAGE DELIVERY](#)

Travel History

Shipment Facts

### Travel History

**TIME ZONE**  
Local Scan Time



Tuesday, January 25,  
2022

3:26 PM	FRAMINGHAM, MA	Picked up
3:20 PM	WESTBOROUGH, MA	Picked up Tendered at FedEx Office
11:46 AM		Shipment information sent to FedEx

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<b>TRACKING NUMBER</b> 775850531198	<b>SERVICE</b> FedEx Priority Overnight	<b>WEIGHT</b> 0.5 lbs / 0.23 kgs
<b>TOTAL PIECES</b> 1	<b>TOTAL SHIPMENT WEIGHT</b> 0.5 lbs / 0.23 kgs	<b>TERMS</b> Shipper
<b>SHIPPER REFERENCE</b> 10-56-92009-6089	<b>PACKAGING</b> FedEx Envelope	<b>SPECIAL HANDLING SECTION</b> Deliver Weekday
<b>ACTUAL PICK UP</b> 1/25/22 <a href="#">?</a>	<b>STANDARD TRANSIT</b> 1/26/22 before 12:00 pm <a href="#">?</a>	<b>SCHEDULED DELIVERY</b> 1/26/22 before 12:00 pm

- All (30)
- Inbound (11)
- Outbound (19)
- Watch list (0)

## EXHIBIT 3

# Property Card

The Assessor's office is responsible for the maintenance of records on the ownership of properties. Assessments are computed at 70% of the estimated market value of real property at the time of the last revaluation which was 2020.



[www.townofprospect.org](http://www.townofprospect.org)

Information on the Property Records for the Municipality of Prospect was last updated on 1/22/2022.



### Parcel Information

Location:	229 CHESHIRE RD	Property Use:	Residential	Primary Use:	Residential
Unique ID:	K0150100	Map Block Lot:	118 33 229	Acres:	64.76
490 Acres:	63.84	Zone:	RA-1	Volume / Page:	0070/0767
Developers Map / Lot:		Census:	3471		

### Value Information

	Appraised Value	Assessed Value
Land	231,084	85,340
Buildings	180,605	126,420
Detached Outbuildings	311,383	217,970

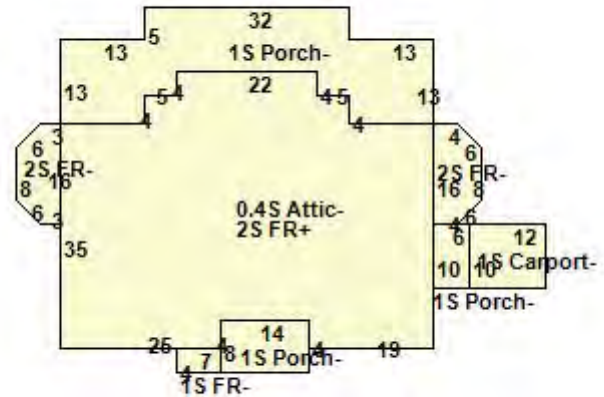
	Appraised Value	Assessed Value
Total	723,072	429,730

## Owner's Information

### Owner's Data

KATHAN BOARDMAN W  
 229 CHESHIRE RD  
 PROSPECT, CT 06712

## Building 1



Building Use:	Single Family	Style:	Colonial	Living Area:	4,824
Stories:	2.00	Construction:	Wood Frame	Year Built:	1906
Total Rooms:	12	Bedrooms:	4	Full Baths:	2
Half Baths:	2	Fireplaces:	0	Heating:	Hot Water
Fuel:	Oil	Cooling Percent:	0	Basement Area:	2,190
Basement Finished Area:	0	Basement Garages:	0	Roof Material:	
Siding:	Wood Shingles	Units:	w/ Accessory Apt		

## Special Features

Fireplace	2
-----------	---

## Attached Components

Type:	Year Built:	Area:
Unfinished Attic	1906	876
Frame Carport	1906	120
Open Porch	1906	112
Open Porch	1906	60

## Detached Outbuildings

Type:	Year Built:	Length:	Width:	Area:
Frame Garage	1907	0.00	0.00	315
Frame Garage	1907	0.00	0.00	1,152
Cell Tower	1990	0.00	0.00	1

## Building Permits

Permit Number	Permit Type	Date Opened	Reason
7589	Commercial	06/09/2016	REINFORCING TOWER TO BASE
7570	Commercial	05/18/2016	INSTALL 6 NEWER CELL ANTENNAS REMOVE 3 OLD ONES
6869	Electrical	07/19/2013	REPLACE 6 EXISTING CELL ANNTENNAS WITH 3 NEWER TECH ANTENNAE & EQUIP
6844	Electrical	06/19/2013	REINFORCEMENT OF EXISTING COMMUNICATION TOWER
6678	Residential	09/25/2012	REMOVE /REPLACE (6) ANTENNAS WITH 6 NEW ADD'L EQUIP EXSTNG SHEIT
6051		03/12/2010	REMOVE 10 ANTENNAE REPLACE WITH;10 ANTENNAE;

Permit Number	Permit Type	Date Opened	Reason
4847		04/05/2005	INSTALLATION OF VERIZON WIRELESS 12X20 COMMUNICATIONS EQUIP SHELTER & ANTENNAS AT EXIST COMM FAC.;C
4847		04/05/2005	INSTALLATION OF VERIZON WIRELESS 12X20 COMMUNICATIONS EQUIP SHELTER & ANTENNAS AT EXIST COMM FAC.;
3776		10/09/1999	CONSTRUCTED A 150' TELECOMMUNICATION TOWER; 1 ACRE PRICED AS INCOME INTENSIVE WITH TOWER. 150000 ADD

Information Published With Permission From The Assessor



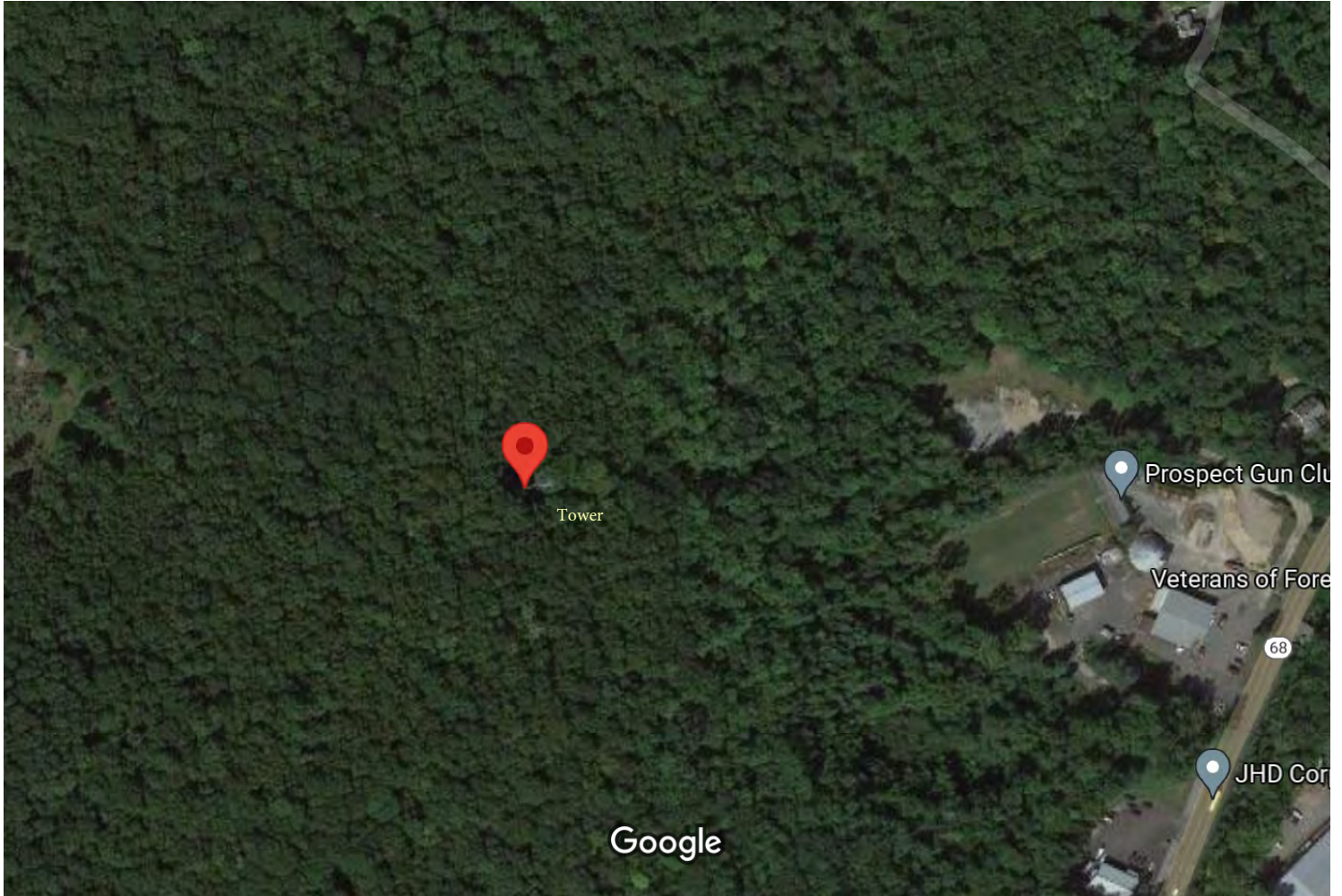
**EXHIBIT 4**  
**Property Map**

Google Maps 229 Cheshire Rd



Map data ©2022 1000 ft

Google Maps 41°30'28.4"N 72°57'03.7"W



Imagery ©2022 Maxar Technologies, U.S. Geological Survey, USDA Farm Service Agency, Map data ©2022 200 ft

# EXHIBIT 5

## Zoning Documents

SITE NAME: E-Prospect SITE ID: CT02694-B

Transaction: \_\_\_\_\_

**ZONING/PERMITTING COMPLETION FORM**

Address: 229 Cheshire Road, Prospect, CT 06712-1746

Jurisdiction: Town of Prospect Zoning District: Residential

Zoning Approval Type: Special Permit Case #: \_\_\_\_\_

Approval Date: 10/20/1999 Approved Height: 150

<b>Conditions of Approval:</b>	<b>Yes</b>
Removal Bond _____	<input type="checkbox"/>
Site Plan Submittal _____	<input type="checkbox"/>
Fall Zone <u>at least equal to the tower's height</u>	<input checked="" type="checkbox"/>
Periodic Inspections _____	<input type="checkbox"/>
Periodic Reporting _____	<input type="checkbox"/>
Approval Renewal _____	<input type="checkbox"/>
Additional Conditions <u>See Approval for all Conditions</u>	<input checked="" type="checkbox"/>

Height of monopole & accessory antennas will not exceed 150 ft. AGL & located a distance from the property line at least equal to the tower's height. No structures other than those associated with this installation shall be placed within the fall radius of the monopole & attachments. Utility connections to be above ground. All future tenants must apply for a Zoning Permit.

\*Per Brenda Richard, Town of Prospect 203-753-4461 - No Final Inspections were located.

**JURISDICTION POC/DEPT.**

Planning/Zoning: \_\_\_\_\_

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

Bldg./Code Enforcement: Brenda Richard

Phone: 203-753-4461 Email: \_\_\_\_\_

Submitted by: \_\_\_\_\_ Date: \_\_\_\_\_

Zoning Compliance

**TO BE COMPLETED BY CORPORATE**

	<u>Yes</u>	<u>No</u>	<u>N/A</u>	
Zoning Approval Attached (required)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Building Permit Attached (required)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>Date Recd</u>
<u>3776</u>				<u>12/9/1999</u>
Certificate of Occupancy or Compliance (CO) attached (required)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>*No Finals Located</u>

Zoning Manager Approval: \_\_\_\_\_ Date \_\_\_\_\_

Ashley Masuda, Zoning & Compliance Supervisor

# Memorandum

To: Tom Flynn  
CC: Paul McGinn, Eric Pearson *JFT*  
From: Joe Tassone  
Date: 12/20/99  
Re: 10125-036/ E. Prospect / Wetlands / Utilities

---

## Background

Wetlands approval on 10/14/99 (SPRINT) (see attached). Wetlands approval calls for overhead utilities.

Zoning Approval on 10/22/99 (SPRINT) (see attached). Zoning approval also indicates that utilities are to be installed over head.

12/99 ???= E. Prospect site assigned to SBA

12/15/99 ??? Building Permit issued (SBA)

12/17/99 = meeting with Land Owner **Boardman (Barney) Kathan** = Mr. Kathan will not permit SBA to install overhead utilities due to the fact that it will cause a number of his trees to be cut down. Sprint indicated on their plans that they submitted to zoning that the overhead utilities can be installed above ground with out removing any trees. These plans are unrealistic. Eric Pearson met with Mr. Kathan on his property on Friday 12/17 and tried to work out a compromise. Mr. Kathan was obstinate, and insists that the utilities be installed below ground. He feels that he was misled by Sprint and will not cooperate with SBA. Pursuant with my conversation with Paul and Eric on Friday, we decided to oblige Mr. Kathan and pursue the possibilities of installing the utilities underground. Mr. Kathan is good friends with Bill Donovan (Land Use Inspector, Town of Prospect....see attached). Mr. Kathan insists that he can have the Wetlands permit changed to indicate that utilities can be installed underground. I spoke with Mr. Kathan on Friday and told him that we would like to assist him with this process.

## Action

Tom, contact Mr. Kathan (203.758.0658) and Bill Donovan and let me know what has to be done. Sprint's Wetland Application and/or the minutes from the Wetlands meeting(s) are not in the file. This site was originally planned to be a 4<sup>th</sup> Quarter build. Please see me if you have any questions. Thank you



**BILL DONOVAN**  
**LAND USE INSPECTOR**  
 TOWN OF PROSPECT

SPRING  
 Application date  
 9/10  
 Hearing 10/6

36 CENTER ST.  
 PROSPECT, CT 06712

TOWN HALL 758-4461  
 RESIDENCE 284-2971

- 229 Cheshire Rd.

- HAVE zoning & wetlands APPROVAL

\$40K Bond APPROVED by P&Z

→ (11/17) WAITING For Bond to be Secured  
 (ATT: TOM REGAN, SPRINT)



**WILLIAM B. SCARPATI**  
 BUILDING OFFICIAL  
 TOWN OF PROSPECT, CONN.

TOWN HALL  
 758-4461

RESIDENCE  
 758-4048

MON., TUE., WED. & THUR. AFTERNOON 2:30 - 5:00

→ NOTICE of APPROVAL filed  
 - 15 day appeal period is ended

- NEXT STEP IS  
 GETTING PERMIT

Recent APPROVAL in OXFORD  
 (kelly) 2600

SITE # 10125-036

FILE TYPE \_\_\_\_\_

SECTION Zoning



**INLAND WETLANDS COMMISSION**

36 CENTER STREET  
PROSPECT, CONNECTICUT 06712-1699

October 14, 1999

**NOTICE OF GRANTING PERMIT**

On Monday, September 27, 1999 the Prospect Inland Wetlands Commission approved an application from Boardman W. Kathan, 229 Cheshire Road, Prospect, CT for a permit to construct a 12-foot wide gravel and access drive within regulated areas to a proposed 150-foot telecommunications monopole located at 229 Cheshire Road. Regulated activities also consist of crossing and redirecting an intermittent watercourse, upgrading an existing culvert and installing overhead utilities within the 75-foot regulated upland review area. No filling or excavating of wetlands is approved.

The legal description of this property is set forth in Schedule "A" attached hereto and made part thereof and appears in Volume 15, Pages 193-196 of the Prospect Land Records. (See Vol. 70 Page 767).

*Arnold Koehler*  
Arnold Koehler  
Chairman

SITE # 10125-036

FILE TYPE \_\_\_\_\_

SECTION Zoning





**PROSPECT PLANNING & ZONING COMMISSION**

36 CENTER STREET  
PROSPECT, CONNECTICUT 06712-1699

**NOTICE OF APPROVAL**

SITE # 1025-036

FILE TYPE \_\_\_\_\_

SECTION Zoning

Property Owner: Boardman W. Kathan  
Property Location: 229 Cheshire Road  
Date of Approval: October 20, 1999  
Date of Notice: October 22, 1999

**RESOLVED TO APPROVE**, request for Special Permit under Section 300 for a Telecommunications Monopole and supporting equipment within a 100' x 100' parcel of land on property located at **229 Cheshire Road** in a residential zone and accessed from Cheshire Road. Owner: Boardman W. Kathan. Authorized agent: Sprint Spectrum L.P., 9 Barnes Industrial Road, Wallingford, CT 06492

**PROVIDED THAT:**

1. Construction of the access road and telecommunications facility will conform to drawings and detail sheets submitted by URS Greiner Woodward Clyde, 500 Enterprise Drive, Suite 3B, Rocky Hill, CT 06067, included in plans entitled "Sprint PCS, Site I.D. # CT33XC512, Kathan Parcel, 229 Cheshire Road, Prospect, Connecticut" with the latest revision date of 10/19/99.
2. The applicant will adhere to any and all requirements or conditions described in the permit granted to Boardman W. Kathan by Inland Wetlands on September 27, 1999 to construct an access road and install overhead utilities to this telecommunications monopole and facility.
3. The height of the monopole and accessory antennas will not exceed 150 feet above ground level. The monopole must be located a distance from the property line at least equal to the tower's height. No structure, other than those associated with this installation, shall be placed within the fall radius of the monopole and monopole attachments.
4. Utility connections from the property line to the proposed installation will be above ground.

5. The monopole will meet the design standards of the National Standards Institute and meet all pertinent FCC and OSHA requirements. A Geotechnical Study submitted to URS Greiner Woodward Clyde on the proposed telecommunications tower site dated October 14, 1999 and performed by Dr. Clarence Welti, P.E., P.C. offers acceptable alternate methods for installing the building and pole foundation over existing soil and bedrock conditions. The Land Use Office shall be advised as to the method utilized relative to this referenced report.
6. Prior to the initiation of any construction activity all erosion and sedimentation control measures shall be properly installed and fully functioning, and said measures shall be maintained in effective condition throughout the construction process.
7. The site supervisor and/or Project Manager shall ensure that no additional water runoff or increased water velocity will flow into the abutting Town of Prospect's Public Works property as a result of proposed roadway and drainage improvements, utility or facility installations. The Assistant Director of Public Works for Prospect is to be contacted by the Project Manager prior to initial construction and it is required that URS Greiner Woodward Clyde will accommodate any reasonable request or suggestion by the Town of Prospect to help prevent or divert increased water runoff from entering onto Town property.
8. It is advised that a gate and/or other means be installed at the beginning of the access road to restrict or alert incoming traffic to the presence of on site vehicles and thus prevent the situation where one or more vehicles must drive off the access road to allow other traffic to pass by. Town officials must have a means to access the property in the event of an emergency.
9. No public or private thoroughfare or driveway is to be blocked during any phase of this project by construction equipment or vehicles.
10. On-site storage of fuel or chemicals for any reason is prohibited.
11. All future tenant occupants must apply for and receive a Zoning Permit from the Land Use Inspector prior to their installation of equipment cabinets and antennas. Installation plans must also be submitted to Prospect's Building Official for approval.
12. The above-listed agent will be responsible for, and ensure his facility and his tenants comply with all FCC standards and guidelines for wireless facilities. Upon termination of the lease, or should the agent abandon use of the facility, Sprint Spectrum, L.P. as agent, shall remove all apparatus and aboveground structures from the site and restore the leased space to its original condition.
13. A performance bond in an amount to be determined by staff and in such form acceptable to the Town Attorney shall be posted with the Town of Prospect. The bond shall not be released until sufficient time (normally one year after completion) has elapsed to assure that all site stabilization and restoration requirements have been met.

14. **Reasons:** In granting the above Special Permit, the Planning & Zoning Commission of the Town of Prospect wishes to state upon its records that in the Commission's judgement, the subject project complies with Prospect's zoning regulations, provides an acceptable facility for wireless communications providers to utilize and will not exert a detrimental effect on the development of the area nor on the value of nearby properties.

*Edward Miller* (W)

*Edward Miller*

Edward Miller, Chairman  
Planning & Zoning Commission

# EXHIBIT 6

## Construction Drawings

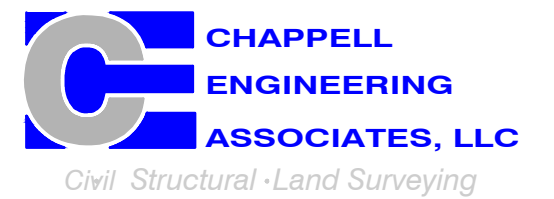
# CTNH303/EAST PROSPECT

## T-MOBILE NORTHEAST LLC

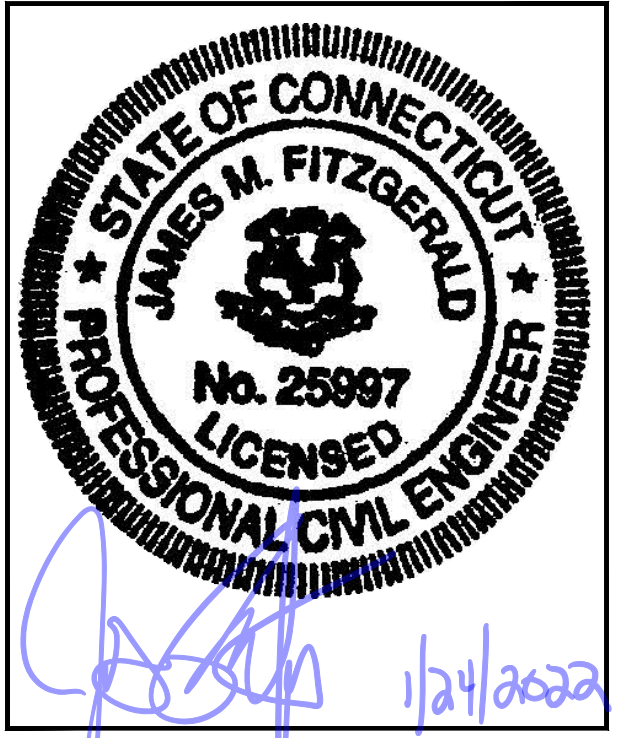
15 COMMERCE WAY, SUITE B  
NORTON, MA 02766  
(508) 286-2700



SBA COMMUNICATIONS CORP.  
134 FLANDERS ROAD, SUITE 125  
WESTBOROUGH, MA 01581  
(508) 251-0720



R.K. EXECUTIVE CENTRE  
201 BOSTON POST ROAD WEST, SUITE 101  
MARLBOROUGH, MA 01752  
(508) 481-7400  
www.chappellengineering.com



CHECKED BY: JMT

APPROVED BY: JMT

SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
1	01/21/22	ISSUED FOR CONSTRUCTION	BDJ
0	12/22/21	ISSUED FOR REVIEW	BDJ

SITE NUMBER:  
**CTNH303A**

SITE ADDRESS:  
229 CHESHIRE ROAD  
PROSPECT, CT 06712

SHEET TITLE  
**TITLE SHEET**

SHEET NUMBER  
**T-1**

APPROVALS			
PROJECT MANAGER:	DATE:	ZONING/SITE ACQ.:	DATE:
CONSTRUCTION:	DATE:	OPERATIONS:	DATE:
RF ENGINEERING:	DATE:	TOWER OWNER:	DATE:

229 CHESHIRE ROAD  
PROSPECT, CT 06712  
NEW HAVEN COUNTY

SITE NO.: CTNH303A

SITE TYPE: 150'± MONOPOLE

PROJECT TYPE: NATIONAL HARDENING PROJECT

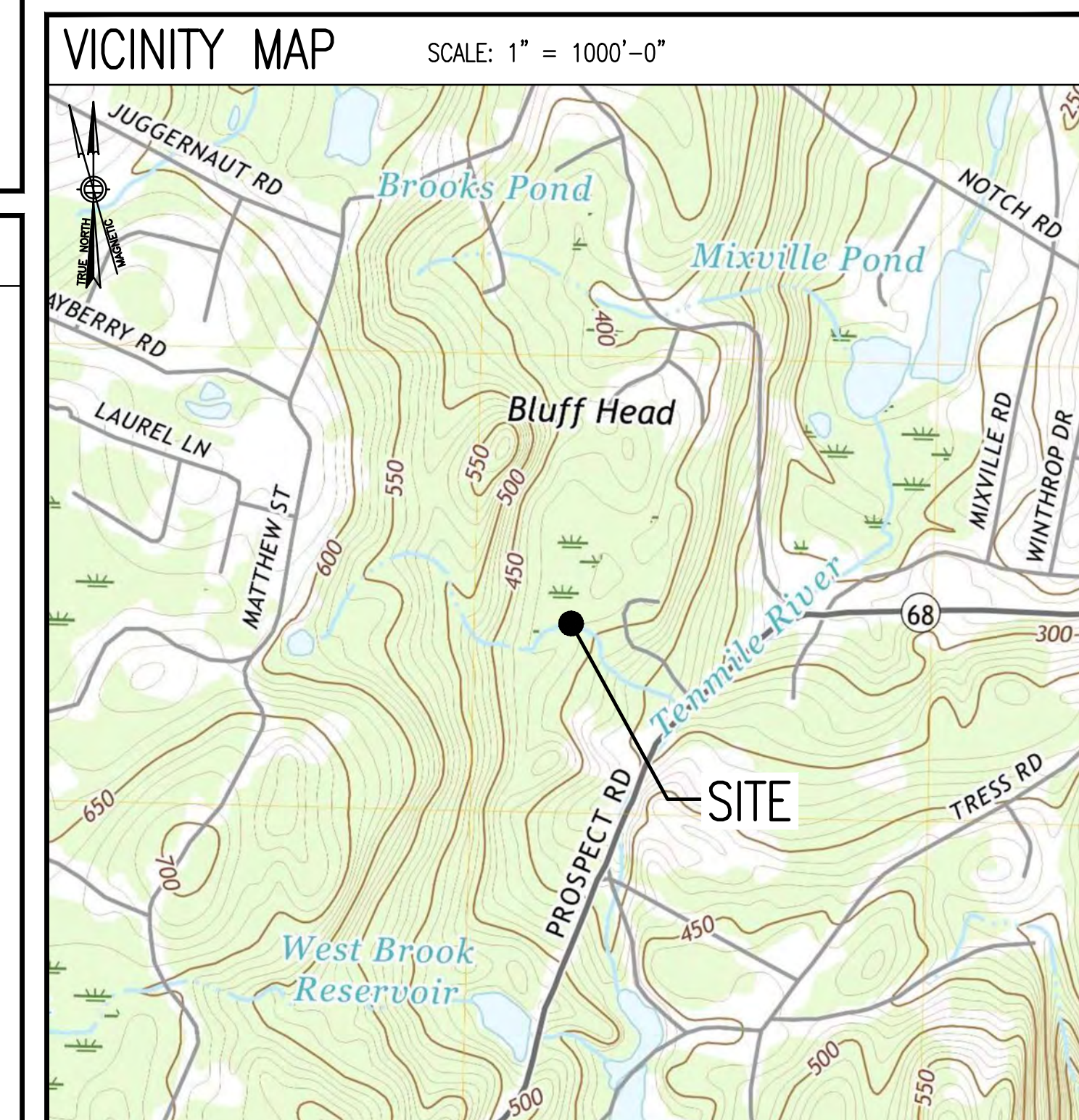
SCOPE OF WORK	
REMOVE:	INSTALL:
• NONE	• 1 GENERATOR • 1 AUTOMATIC TRANSFER SWITCH • 2 20A-1P BREAKERS

SITE NOTES	
1.	THIS IS AN UNMANNED AND RESTRICTED ACCESS TELECOMMUNICATION FACILITY, AND IS NOT FOR HUMAN HABITATION. IT WILL BE USED FOR THE TRANSMISSION OF RADIO SIGNAL FOR THE PURPOSE OF PROVIDING PUBLIC CELLULAR SERVICE. • ADA COMPLIANCE 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 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 PLACE THE RESPONSIBILITY ON THE CONTRACTOR TO CORRECT THE DISCREPANCIES AT THE CONTRACTOR'S EXPENSE.
3.	NEW CONSTRUCTION WILL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES. • BUILDING CODE: 2018 CONNECTICUT STATE BUILDING CODE • ELECTRICAL CODE: 2017 NATIONAL ELECTRICAL CODE • STRUCTURAL CODE: TIA/EIA-222-G STRUCTURAL STANDARDS FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS.

T-MOBILE TECHNICIAN SITE SAFETY NOTES	
LOCATION	SPECIAL RESTRICTIONS
SECTOR A:	ACCESS BY CERTIFIED CLIMBER
SECTOR B:	ACCESS BY CERTIFIED CLIMBER
SECTOR C:	ACCESS BY CERTIFIED CLIMBER
SECTOR D:	ACCESS BY CERTIFIED CLIMBER
GPS/LMU:	UNRESTRICTED
RADIO CABINETS:	UNRESTRICTED
PPC DISCONNECT:	UNRESTRICTED
MAIN CIRCUIT D/C:	UNRESTRICTED
NIU/T DEMARC:	UNRESTRICTED
OTHER/SPECIAL:	NONE

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.	11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY.
2. THE ARCHITECT/ENGINEER HAVE 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.	12. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC. DURING CONSTRUCTION. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.
3. THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE OMNIPOT REPRESENTATIVE OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK. IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED IN WRITING OTHERWISE.	13. THE CONTRACTOR SHALL KEEP THE GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.
4. THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND ALL OTHER MATERIALS AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN.	14. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
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 CONTRACT DOCUMENTS.	15. THE CONTRACTOR SHALL NOTIFY THE PROJECT OWNER'S REPRESENTATIVE 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 LESSEE/LICENSEE REPRESENTATIVE.
6. THE CONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS.	16. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
7. 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.	17. ALL UNDERGROUND UTILITY INFORMATION WAS DETERMINED FROM SURFACE INVESTIGATIONS AND EXISTING PLANS OF RECORD. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO ANY SITE WORK.
8. THE CONTRACTOR SHALL PROVIDE A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE UPDATED WITH THE LATEST REVISIONS AND ADDENDUMS OR CLARIFICATIONS AVAILABLE FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.	
9. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.	
10. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY CONSTRUCTION CONTROL SURVEYS, ESTABLISHING AND MAINTAINING ALL LINES AND GRADES REQUIRED TO CONSTRUCT ALL IMPROVEMENTS AS SHOWN HEREIN.	

AT LEAST 72 HOURS PRIOR TO DIGGING, THE CONTRACTOR IS REQUIRED TO CALL DIG SAFE AT 811



**DIRECTIONS**

MERGE ONTO I-495 NORTH TOWARD MANSFIELD/MARLBORO. TAKE EXIT 3 TAKE EXIT 58 TOWARD I-90 W. KEEP LEFT AT THE FORK, FOLLOW SIGNS FOR I-90 W/SPRINGFIELD/ALBANY AND MERGE ONTO I-90 W TAKE EXIT 78 TOWARD I-84. CONTINUE ONTO I-84. TAKE EXIT 26 FOR CT-70 TOWARD CHESHIRE/PROSPECT. CONTINUE ON CT-70 E. DRIVE TO CT-68 W IN PROSPECT. TURN LEFT ONTO CT-70 E/STATE HWY 801. CONTINUE TO FOLLOW CT-70 E. TURN RIGHT ONTO CT-68 W. DESTINATION WILL BE ON THE RIGHT.

SHEET INDEX		
SHEET NO.	DESCRIPTION	REV. NO.
T-1	TITLE SHEET	1
GN-1	GENERAL NOTES	1
A-1	COMPOUND & EQUIPMENT PLANS	1
A-2	GENERATOR DETAILS	1
A-3	GENERATOR SPECIFICATIONS 1	1
A-4	GENERATOR SPECIFICATIONS 2	1
E-1	ELECTRIC & GROUNDING DETAILS	1

**DO NOT SCALE DRAWINGS**

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE PROJECT OWNER'S REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

PROJECT SUMMARY	
SITE NUMBER:	CTNH303A
SITE NAME:	CTNH303/EAST PROSPECT
SBA SITE NUMBER:	CT02694-B
SBA SITE NAME:	E-PROSPECT
SITE ADDRESS:	229 CHESHIRE ROAD PROSPECT, CT 06712
PROPERTY OWNER:	BOARDMAN W. KATHAN 229 CHESHIRE ROAD PROSPECT, CT 06712-1746
TOWER OWNER:	SBA TOWERS, LLC 8501 CONGRESS AVENUE BOCA RATON, FL 33487 PHONE: 561-226-9523
COUNTY:	NEW HAVEN
ZONING DISTRICT:	RA-1, RESIDENTIAL 1 ACRE
STRUCTURE TYPE:	MONOPOLE
STRUCTURE HEIGHT:	150'±
APPLICANT:	T-MOBILE NORTHEAST LLC 15 COMMERCE WAY, SUITE B NORTON, MA 02766
ARCHITECT:	CHAPPELL ENGINEERING ASSOCIATES, LLC. 201 BOSTON POST ROAD WEST, SUITE 101 MARLBOROUGH, MA 01752
STRUCTURAL ENGINEER:	CHAPPELL ENGINEERING ASSOCIATES, LLC. 201 BOSTON POST ROAD WEST, SUITE 101 MARLBOROUGH, MA 01752
SITE CONTROL POINT:	LATITUDE: 41.5079° N41°30'28.37" LONGITUDE: -72.9510° W72°57'03.69"

**SPECIAL ZONING NOTE:**  
BASED ON INFORMATION PROVIDED BY T-MOBILE REGULATORY COMPLIANCE PROFESSIONALS AND LEGAL COUNSEL, THIS TELECOMMUNICATIONS EQUIPMENT DEPLOYMENT IS CONSIDERED AN ELIGIBLE FACILITY UNDER THE MIDDLE CLASS TAX RELIEF AND JOB CREATION ACT OF 2012, 47 USC 1455(A), SECTION 6409(A), AND IS SUBJECT TO AN ELIGIBLE FACILITY REQUEST, EXPEDITED REVIEW, AND LIMITED/PARTIAL ZONING PRE-EMPTION FOR LOCAL DISCRETIONARY PERMITS (VARIANCE, SPECIAL PERMIT, SITE PLAN REVIEW, OR ADMINISTRATIVE REVIEW).

**GENERAL NOTES:**

- FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:  
CONTRACTOR – T-MOBILE  
SUBCONTRACTOR – GENERAL CONTRACTOR (CONSTRUCTION)  
OWNER – T-MOBILE  
OEM – ORIGINAL EQUIPMENT MANUFACTURER
- PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.
- ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL, STATE AND FEDERAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR.
- SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER, T1 CABLES AND GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR AND/OR LANDLORD PRIOR TO CONSTRUCTION.
- THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY.
- SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION AND RETURN DISTURBED AREAS TO ORIGINAL CONDITIONS.
- THE SUBCONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE SUBCONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- SUBCONTRACTOR SHALL NOTIFY CHAPPELL ENGINEERING ASSOCIATES, LLC 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING TRENCHES, SEALING ROOF AND WALL PENETRATIONS AND POST DOWNS, FINISHING NEW WALLS OR FINAL ELECTRICAL CONNECTIONS FOR ENGINEERING REVIEW.
- CONSTRUCTION SHALL COMPLY WITH ALL T-MOBILE STANDARDS AND SPECIFICATIONS.
- SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- THE EXISTING CELL SITES ARE IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
- IF THE EXISTING CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.

**SITE WORK GENERAL NOTES:**

- THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION.
- ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
- IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
- NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
- THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
- ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF ENGINEERING, OWNER AND/OR LOCAL UTILITIES.
- THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE AND STABILIZED TO PREVENT EROSION AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
- SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
- THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE T-MOBILE SPECIFICATION FOR SITE SIGNAGE.

**CONCRETE AND REINFORCING STEEL NOTES:**

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE. A HIGHER STRENGTH (400PSI) MAY BE USED. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 381 CODE REQUIREMENTS
- REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO.
- THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:  
CONCRETE CAST AGAINST EARTH.....3 IN.  
CONCRETE EXPOSED TO EARTH OR WEATHER:  
#6 AND LARGER .....2 IN.  
#5 AND SMALLER & WWF .....1½ IN.  
CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:  
SLAB AND WALL .....¾ IN.  
BEAMS AND COLUMNS .....½ IN.
- A CHAMFER ¾" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
- INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHORS SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO THE MANUFACTURERS RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR CONTRACTOR APPROVAL WHEN DRILLING HOLES IN CONCRETE. SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS. ALL EXPANSION/WEDGE ANCHORS SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED. EXPANSION BOLTS SHALL BE PROVIDED BY SIMPSON OR APPROVED EQUAL.
- CONCRETE CYLINDER TIES ARE NOT REQUIRED FOR SLAB ON GRADE WHEN CONCRETE IS LESS THAN 50 CUBIC YARDS (IBC1905.6.2.3) IN THAT EVENT THE FOLLOWING RECORDS SHALL BE PROVIDED BY THE CONCRETE SUPPLIER:  
(A) RESULTS OF CONCRETE CYLINDER TEST PERFORMED AT THE SUPPLIERS PLANT.  
(B) CERTIFICATION OF MINIMUM COMPRESSIVE STRENGTH FOR THE CONCRETE GRADE SUPPLIED.  
FOR GREATER THAN 50 CUBIC YARDS THE GC SHALL PERFORM THE CONCRETE CYLINDER TEST.
- AS AN ALTERNATIVE TO ITEM 7. TEST CYLINDERS SHALL BE TAKEN INITIALLY AND THEREAFTER FOR EVERY 50 YARDS OF CONCRETE FROM EACH DIFFERENT BATCH PLANT.
- EQUIPMENT SHALL NOT BE PLACED ON NEW PADS FOR SEVEN DAYS AFTER PAD IS POURED, UNLESS IT IS VERIFIED BY CYLINDER TESTS THAT COMPRESSIVE STRENGTH HAS BEEN ATTAINED.

**STRUCTURAL STEEL NOTES:**

- ALL STEEL WORK SHALL BE PAINTED OR GALVANIZED IN ACCORDANCE WITH THE DRAWINGS AND T-MOBILE SPECIFICATIONS UNLESS OTHERWISE NOTED. STRUCTURAL STEEL SHALL BE ASTM-A-36 UNLESS OTHERWISE NOTED ON THE SITE SPECIFIC DRAWINGS. STEEL DESIGN, INSTALLATION AND BOLTING SHALL BE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "MANUAL OF STEEL CONSTRUCTION".
- ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND AWS D1.1. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION", 9TH EDITION. PAINTED SURFACES SHALL BE TOUCHED UP.
- BOLTED CONNECTIONS SHALL USE BEARING TYPE ASTM A325 BOLTS (¾") AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE. ALL BOLTS SHALL BE GALVANIZED OR STAINLESS STEEL.
- NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE ¾" DIA. ASTM A 307 BOLTS (GALV) UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER REVIEW & APPROVAL ON PROJECTS REQUIRING STRUCTURAL STEEL
- ALL STRUCTURAL STEEL WORK SHALL BE DONE IN ACCORDANCE WITH AISC SPECIFICATIONS.

**SOIL COMPACTION NOTES FOR SLAB ON GRADE:**

- EXCAVATE AS REQUIRED TO REMOVE VEGETATION AND TOPSOIL TO EXPOSE NATURAL SUBGRADE AND PLACE CRUSHED STONE AS REQUIRED.
- COMPACTION CERTIFICATION: AN INSPECTION AND WRITTEN CERTIFICATION BY A QUALIFIED GEOTECHNICAL TECHNICIAN OR ENGINEER IS ACCEPTABLE.
- AS AN ALTERNATE TO INSPECTION AND WRITTEN CERTIFICATION, THE "UNDISTURBED SOIL" BASE SHALL BE COMPACTED WITH "COMPACTION EQUIPMENT", LISTED BELOW, TO AT LEAST 90% MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM D 1557 METHOD C.
- COMPACTED SUBBASE SHALL BE UNIFORM AND LEVELLED. PROVIDE 6" MINIMUM CRUSHED STONE OR GRAVEL COMPACTED IN 3" LIFTS ABOVE COMPACTED SOIL. GRAVEL SHALL BE NATURAL OR CRUSHED WITH 100% PASSING #1 SIEVE.
- AS AN ALTERNATE TO ITEMS 2 AND 3, THE SUBGRADE SOILS WITH 5 PASSES OR A MEDIUM SIZED VIBRATORY PLATE COMPACTOR (SUCH AS BOMAG BPR 30/38) OR HAND-OPERATED SINGLE DRUM VIBRATORY ROLLER (SUCH AS BOMAG BW 55E), AND SOFT AREAS THAT ARE ENCOUNTERED SHOULD BE REMOVED AND REPLACED WITH A WELL-GRADED GRANULAR FILL AND COMPACTED AS STATED ABOVE.

**COMPACTION EQUIPMENT:**

- HAND OPERATED DOUBLE DRUM, VIBRATORY ROLLER, VIBRATORY PLATE COMPACTOR OR JUMPING JACK COMPACTOR.

**CONSTRUCTION NOTES:**

- FIELD VERIFICATION: SUBCONTRACTOR SHALL FIELD VERIFY SCOPE OF WORK, T-MOBILE ANTENNA PLATFORM LOCATION AND UTILITY TRENCHWORK.
- COORDINATION OF WORK: SUBCONTRACTOR SHALL COORDINATE RF WORK AND PROCEDURES WITH CONTRACTOR.
- CABLE LADDER RACK: SUBCONTRACTOR SHALL FURNISH AND INSTALL CABLE LADDER RACK, CABLE TRAY AND/OR ICE BRIDGE, AND CONDUIT AS REQUIRED TO SUPPORT CABLES TO THE NEW BTS LOCATION.

**ELECTRICAL INSTALLATION NOTES:**

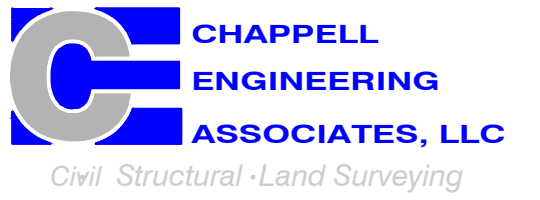
- WIRING, RACEWAY, AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC AND TELCORDIA.
- SUBCONTRACTOR SHALL MODIFY OR INSTALL CABLE TRAY SYSTEM AS REQUIRED TO SUPPORT RF AND TRANSPORT CABLING TO THE NEW BTS EQUIPMENT. SUBCONTRACTOR SHALL SUBMIT MODIFICATIONS TO CONTRACTOR FOR APPROVAL.
- ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC AND TELCORDIA.
- CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
- EACH END OF EVERY POWER, GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA, AND MATCH INSTALLATION REQUIREMENTS.
- POWER PHASE CONDUCTORS (I.E., HOTS) SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, ½ INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). PHASE CONDUCTOR COLOR CODES SHALL CONFORM WITH THE NEC AND OSHA.
- ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATINGS, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E., PANELBOARD AND CIRCUIT ID'S).
- PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS.
- ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
- POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#34 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
- SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
- SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED OUTDOORS, OR BELOW GRADE, SHALL BE SINGLE CONDUCTOR #2 AWG SOLID TINNED COPPER CABLE, UNLESS OTHERWISE SPECIFIED.
- POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#34 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.
- ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRENUTS BY HARGER (OR EQUAL). LUGS AND WIRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C (90°C IF AVAILABLE).
- RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEE AND NEC.
- NEW RACEWAY OR CABLE TRAY WILL MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
- ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
- ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
- GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.
- RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
- LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
- CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE.
- CABINETS, BOXES AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEE AND NEC.
- CABINETS, BOXES AND WIREWAYS TO MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
- WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
- EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
- METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- NONMETALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
- THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.
- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.
- CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.

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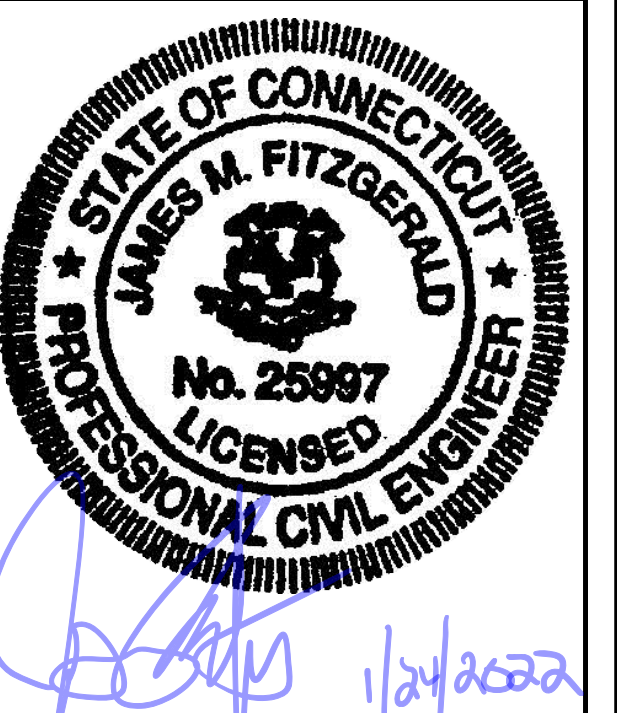
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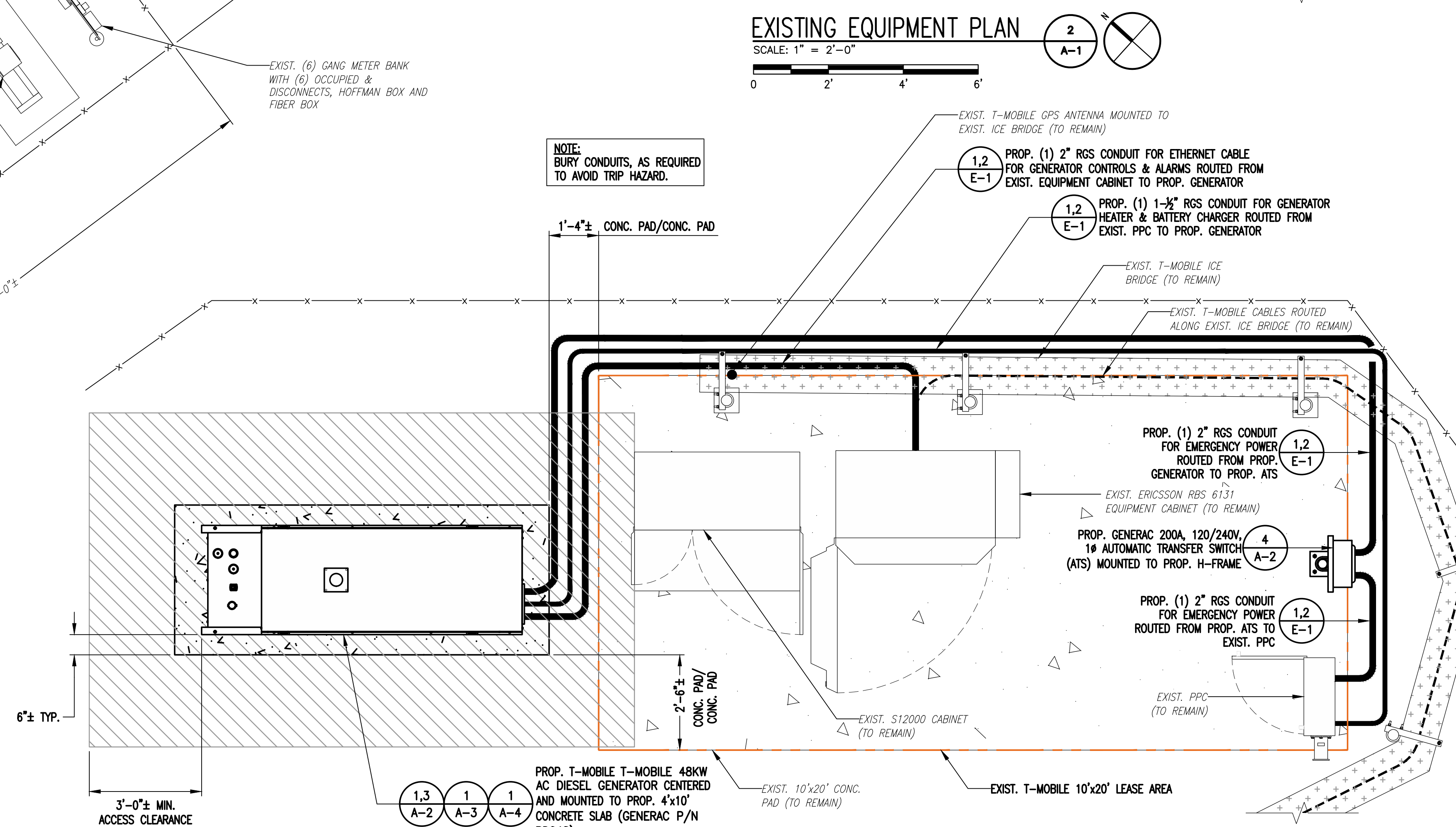
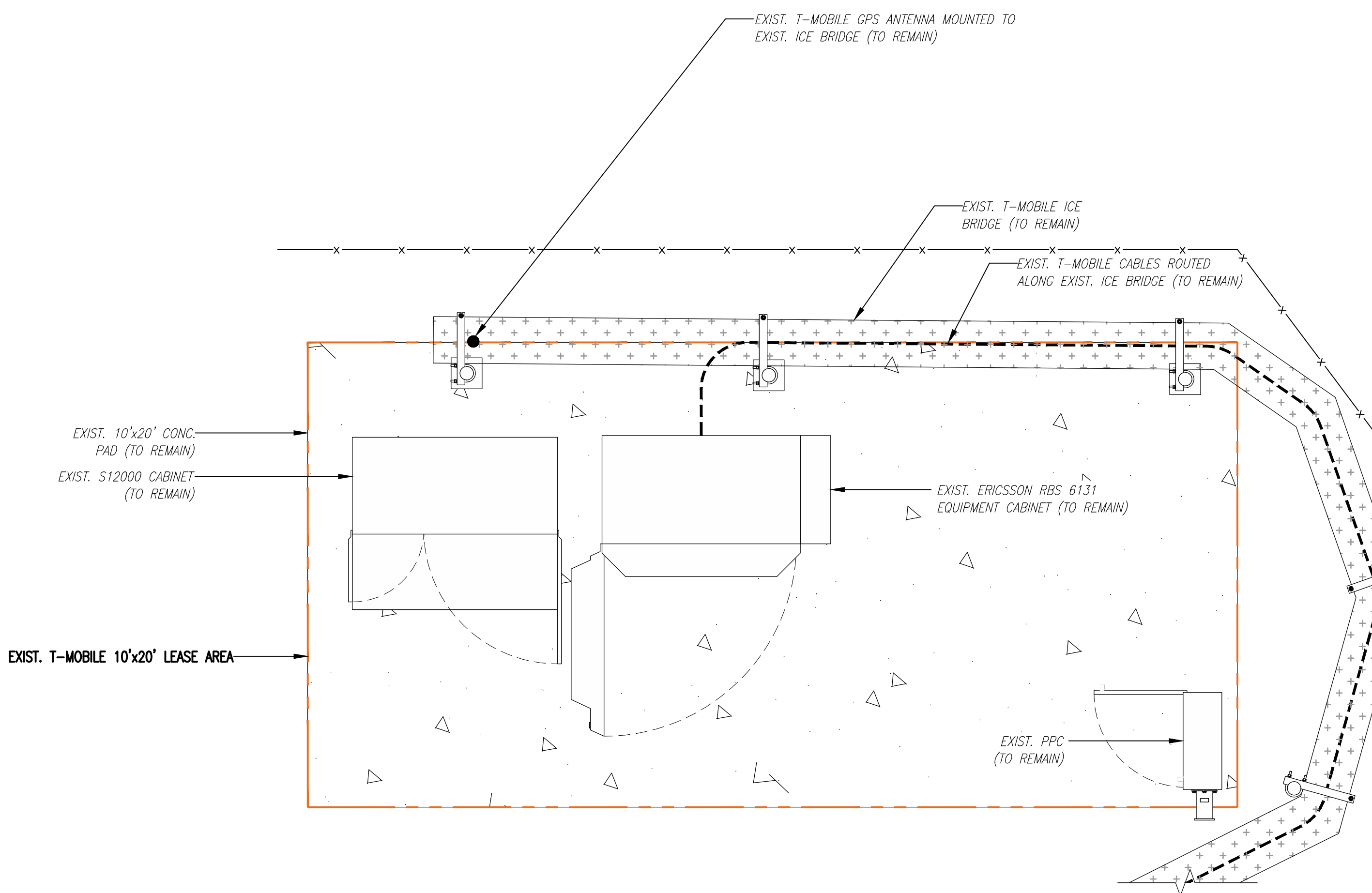
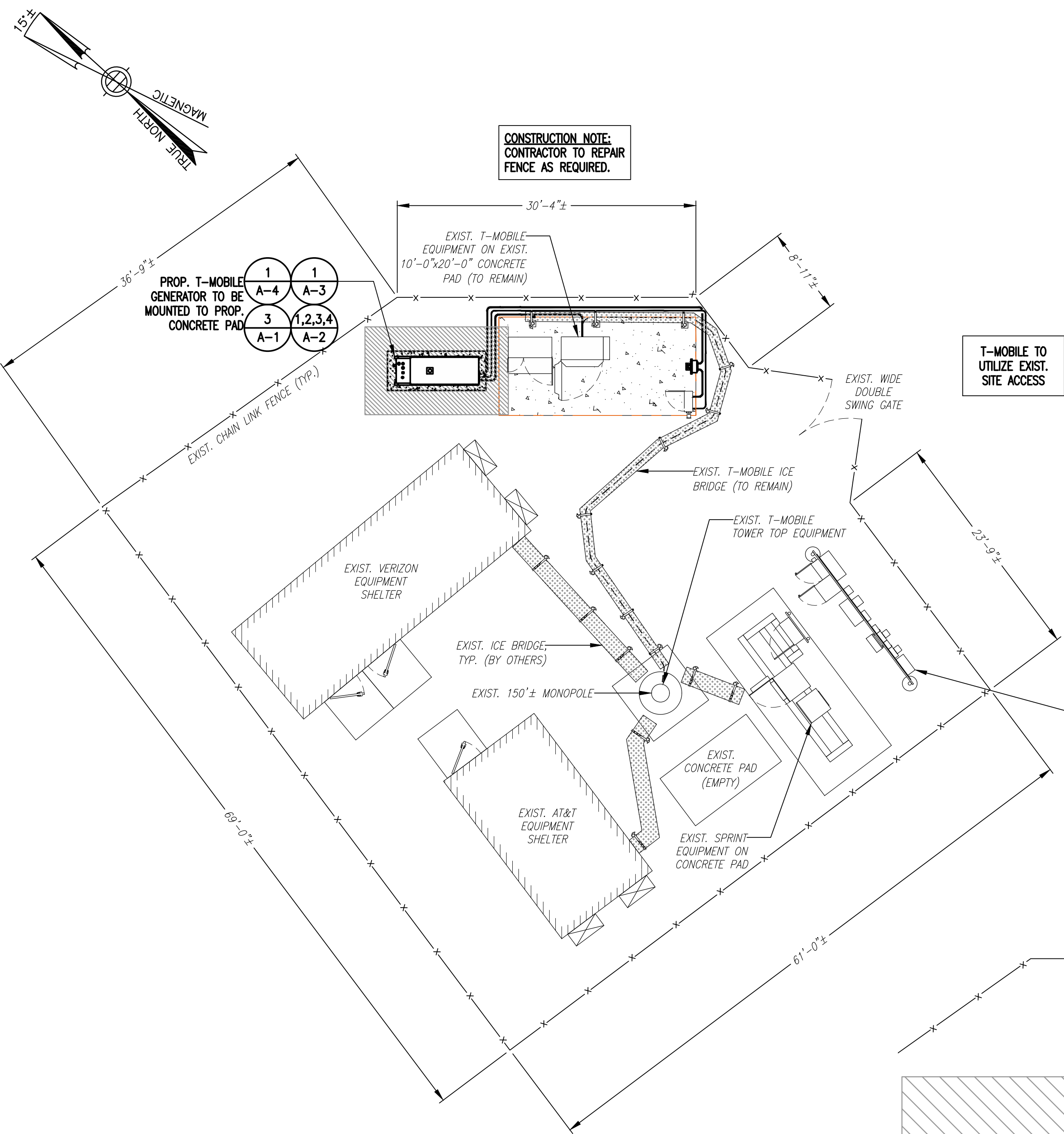
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REV.	DATE	DESCRIPTION	BY
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0	12/22/21	ISSUED FOR REVIEW	BDJ

SITE NUMBER:  
**CTNH303A**  
  
SITE ADDRESS:  
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SHEET TITLE  
  
GENERAL NOTES

SHEET NUMBER  
**GN-1**

**SPECIAL CONSTRUCTION WORK NOTE (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 OR AS DIRECTED/REQUIRED BY SBA REGIONAL SITE MANAGER SHALL HAND-EXCAVATE ALL PROPOSED UNDERGROUND UTILITY TRENCHES. GENERAL CONTRACTOR RESPONSIBLE FOR ANY REQUIRED SPECIAL TEMPORARY PROTECTION OF EXISTING UNDERGROUND UTILITIES, PHYSICAL DAMAGE REPAIR, AND SERVICE RESTORATION.

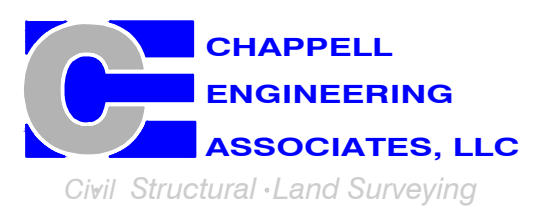


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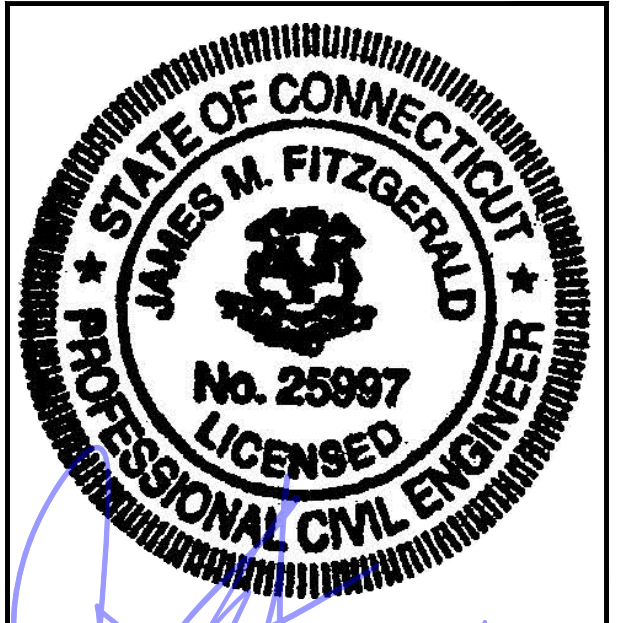
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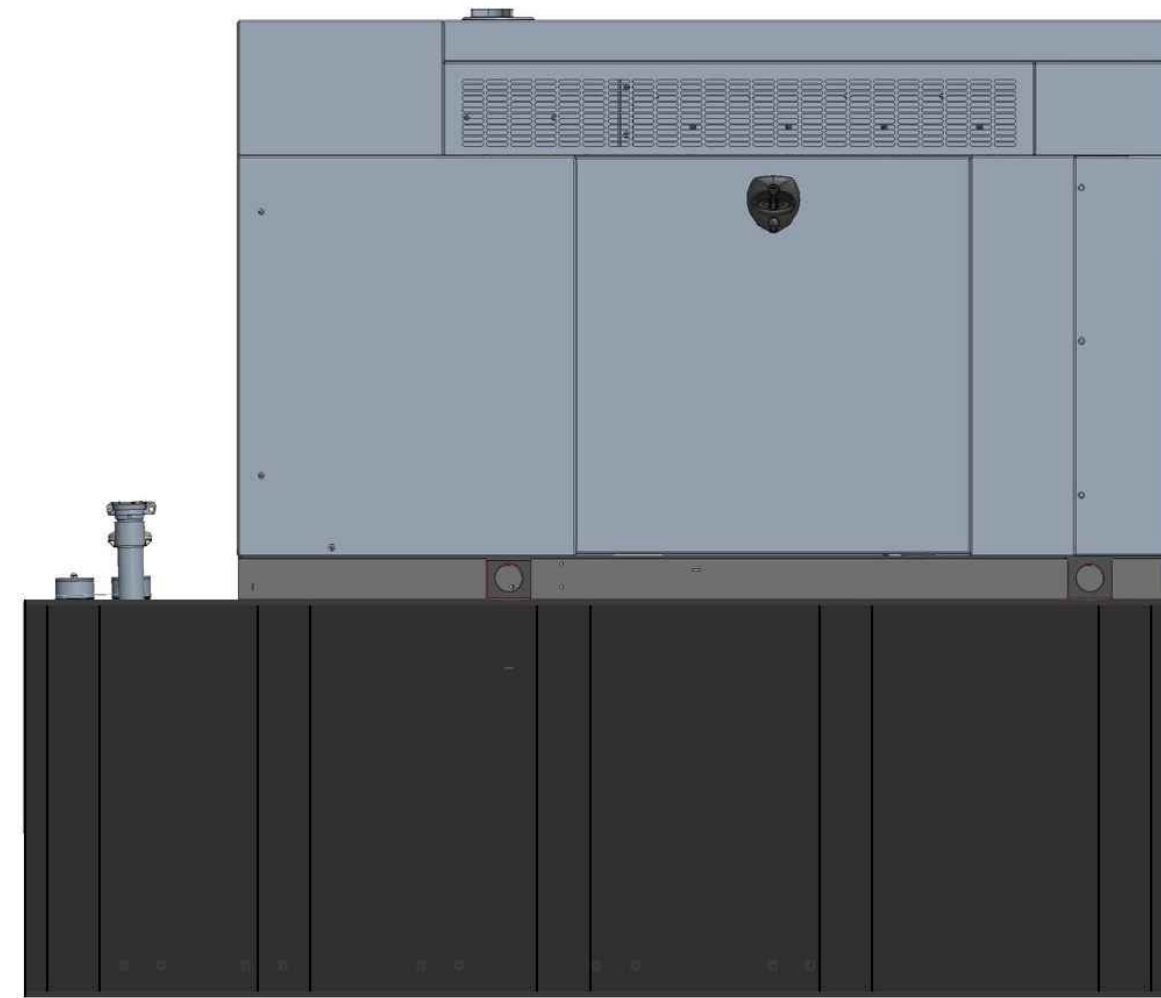
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SHEET TITLE  
**COMPOUND &  
 EQUIPMENT PLANS**

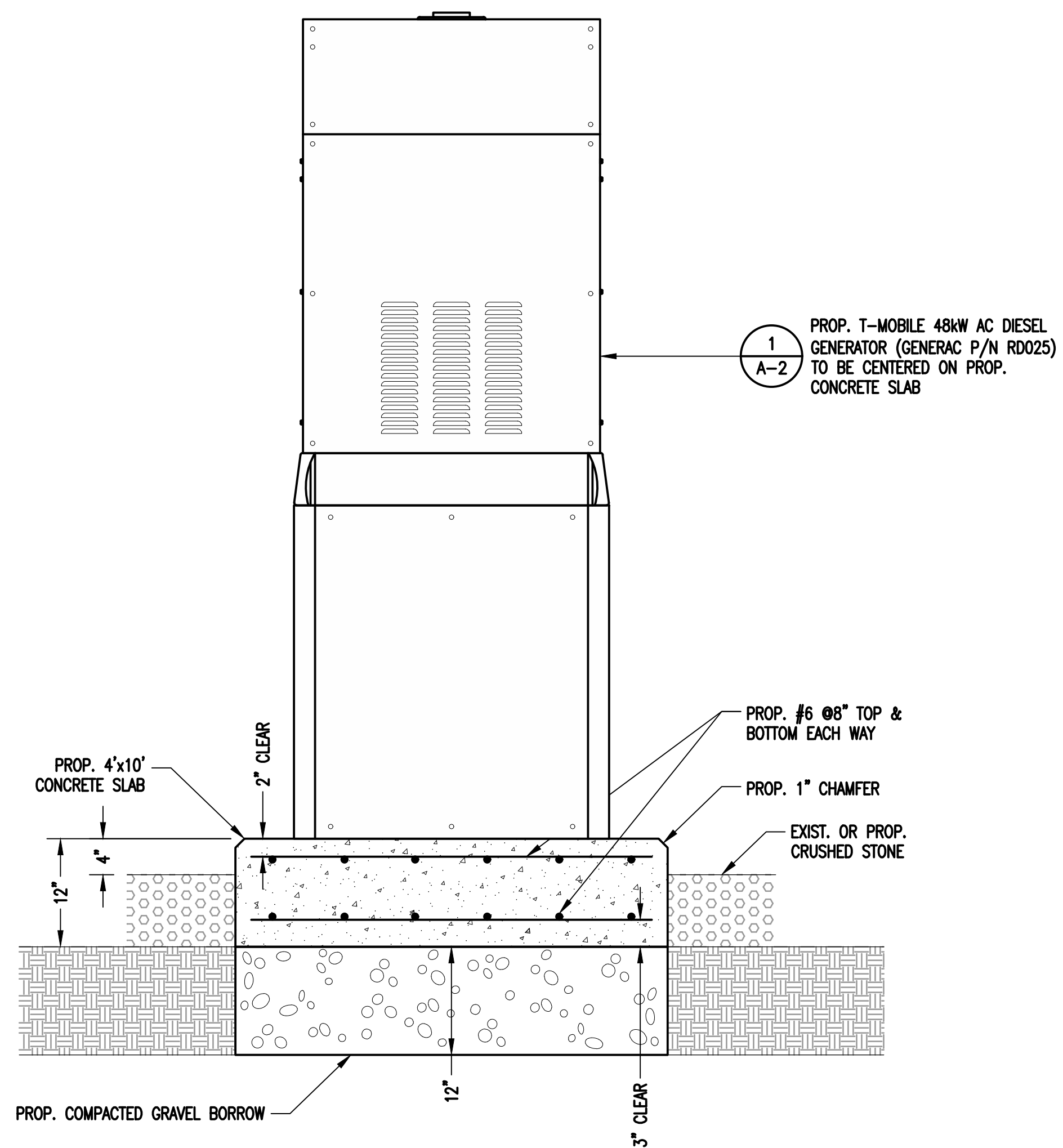
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**A-1**

NOTE:  
GENERATOR DIESEL TANK TO BE  
FILLED BY CONTRACTOR

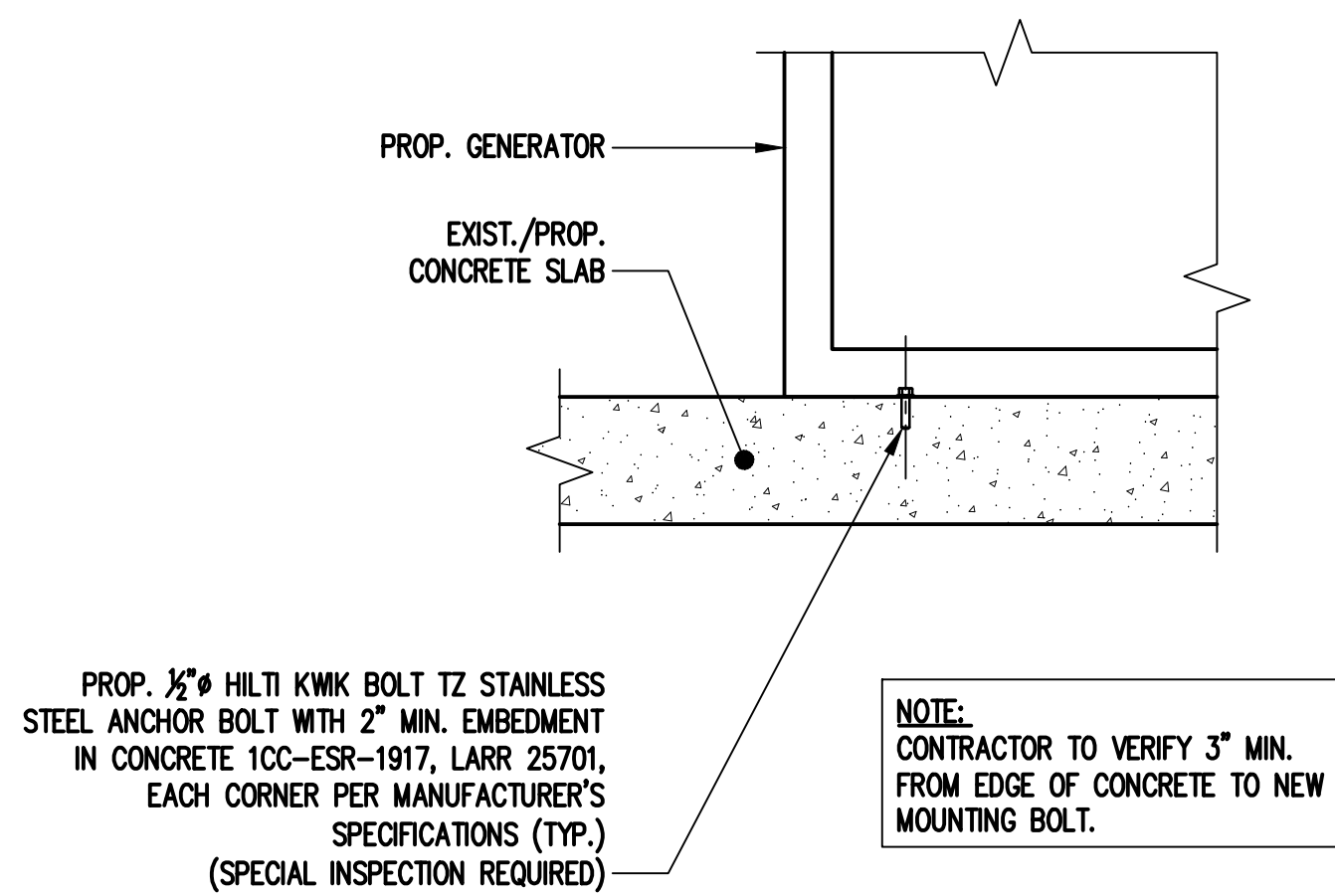


**GENERAC RD048 48kW AC DIESEL GENERATOR**  
 DIMENSIONS: 103.4"L x 35.0"W x 90.0"H  
 WEIGHT: 2,954 lbs  
 QUANTITY: TOTAL OF 1

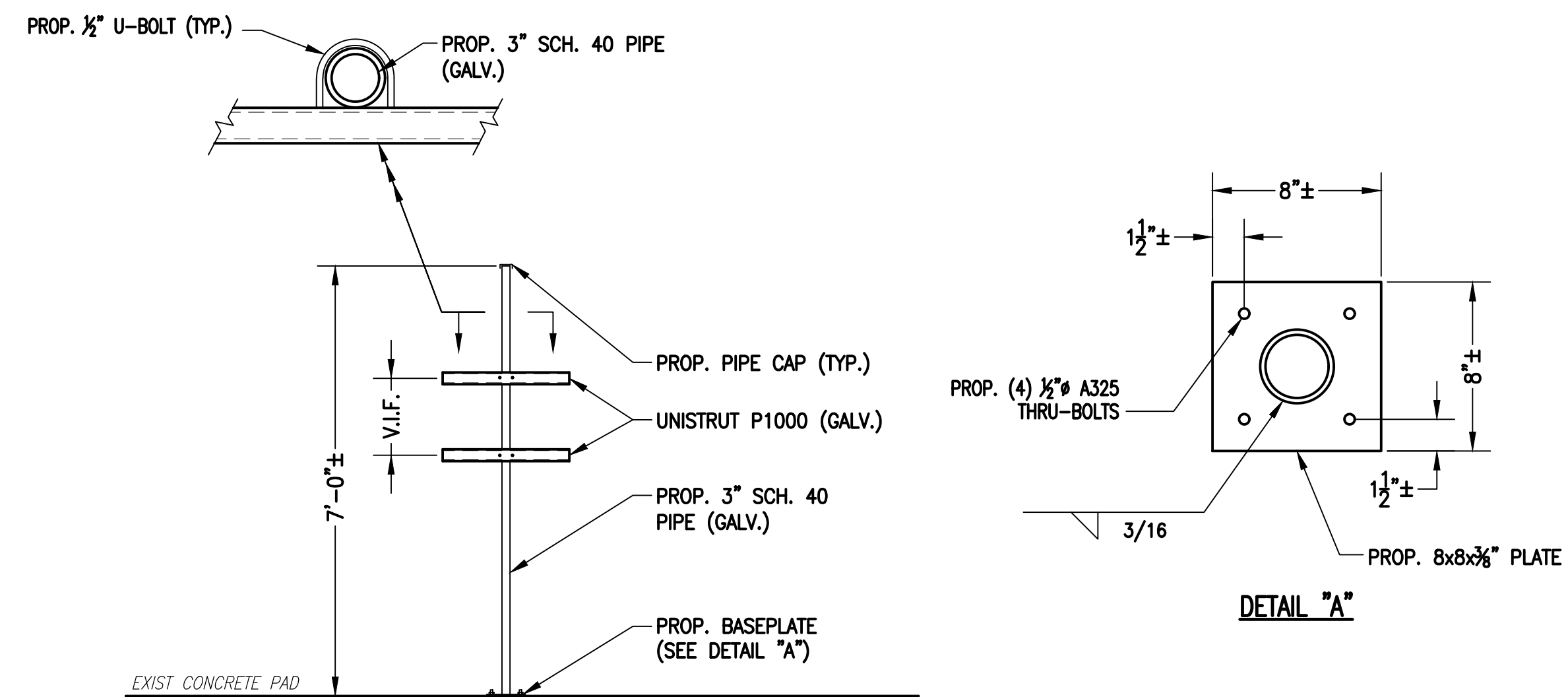
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 SCALE: N.T.S.



**GENERATOR PAD DETAIL** (2/A-2)  
 SCALE: NTS



**GENERATOR MOUNTING DETAIL** (3/A-2)  
 SCALE: N.T.S.



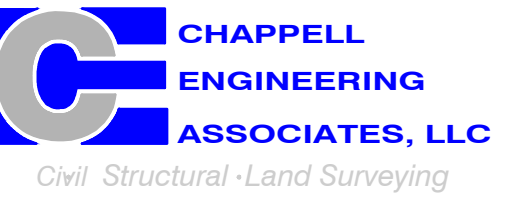
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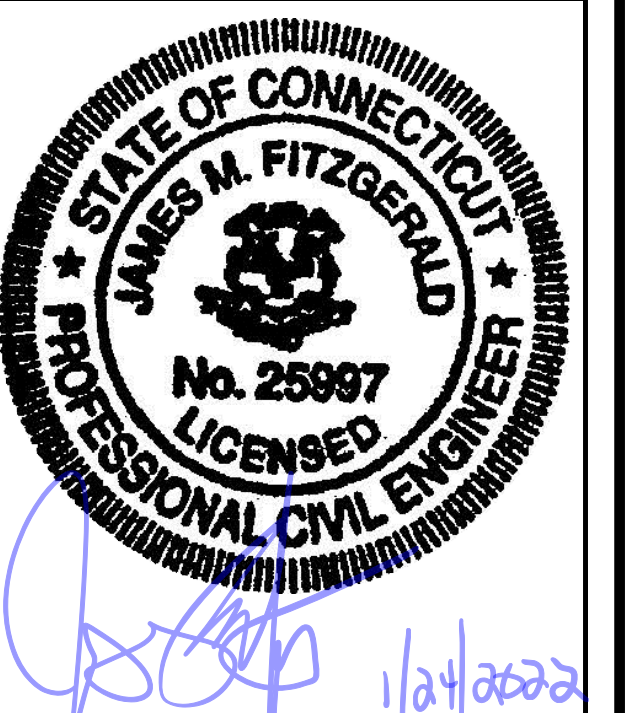
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SHEET TITLE:  
**GENERATOR DETAILS**

SHEET NUMBER:  
**A-2**

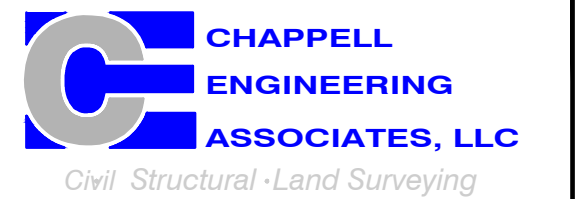


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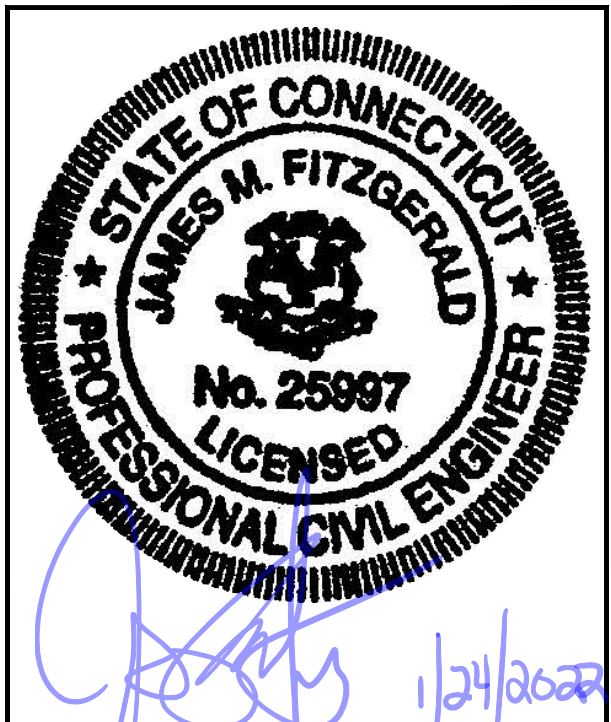
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SHEET TITLE  
GENERATOR SPECIFICATIONS 1

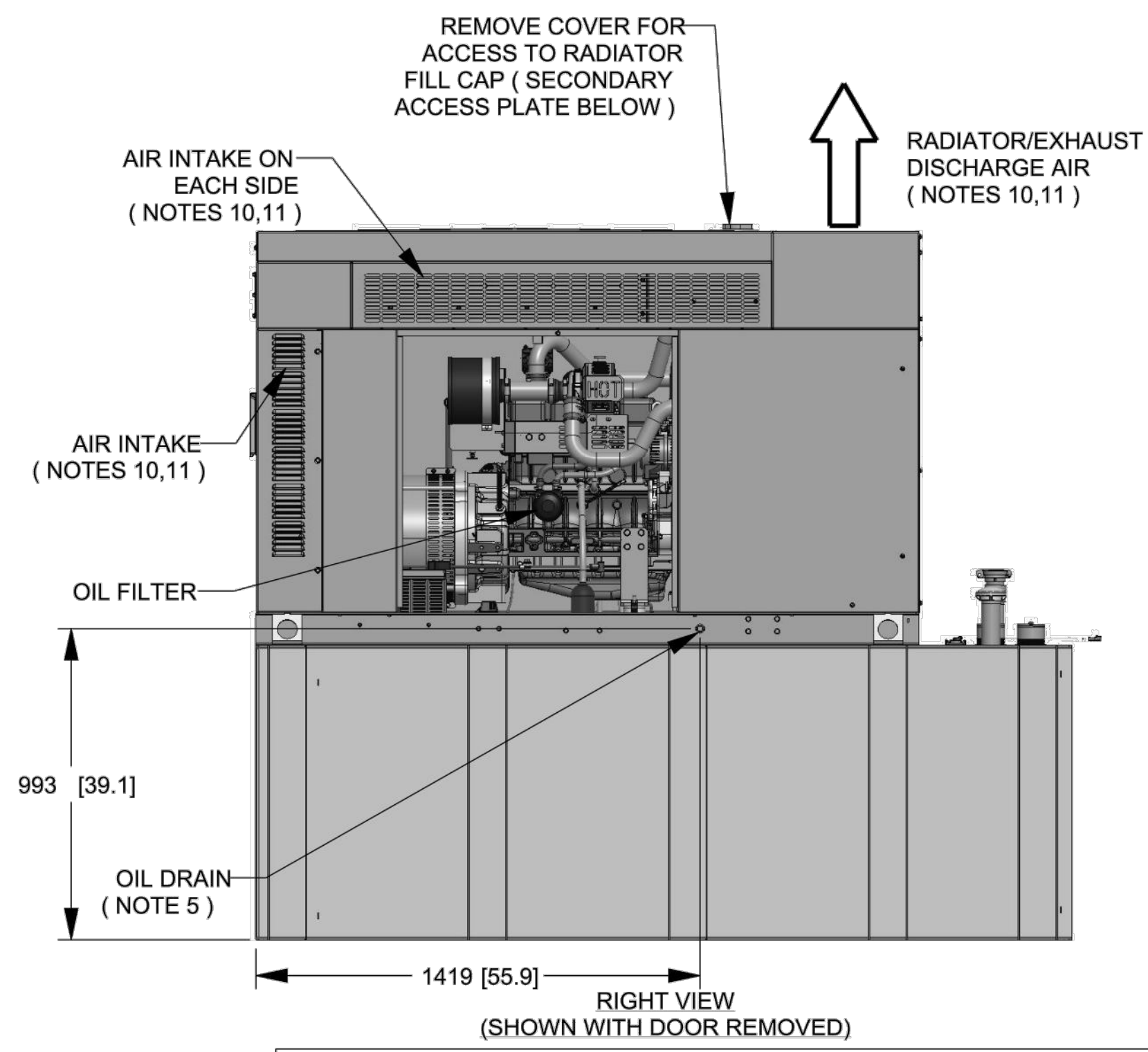
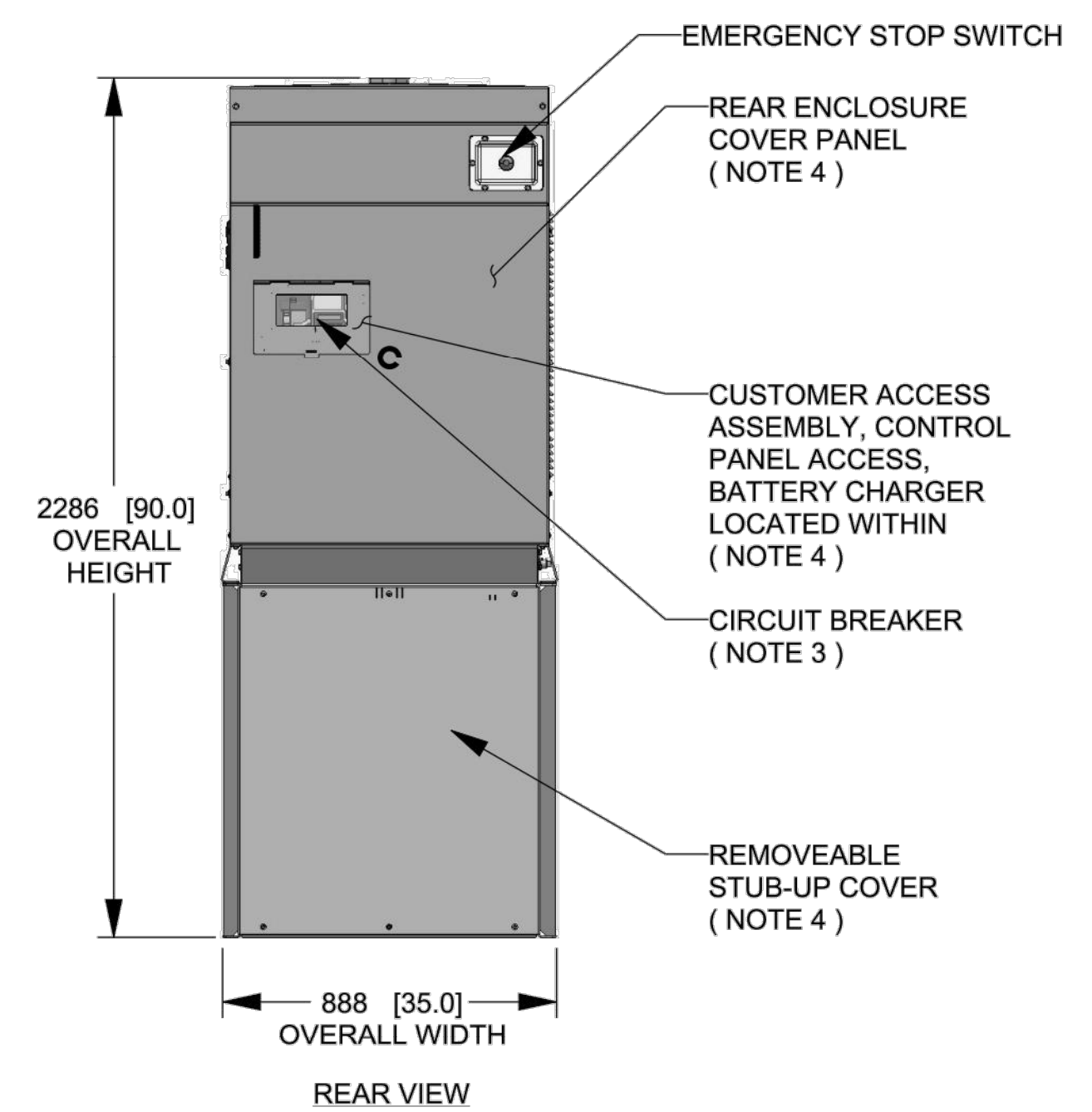
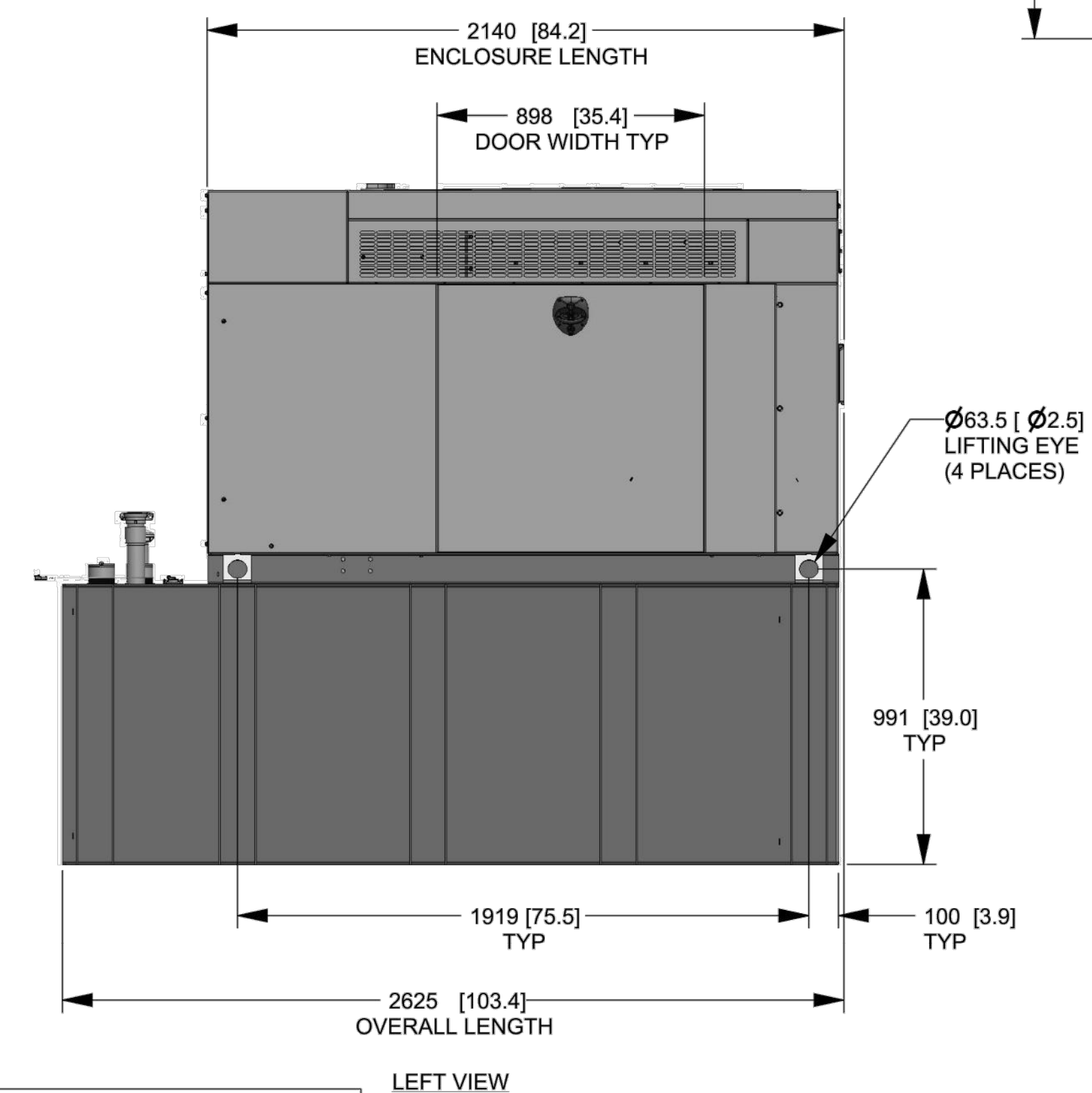
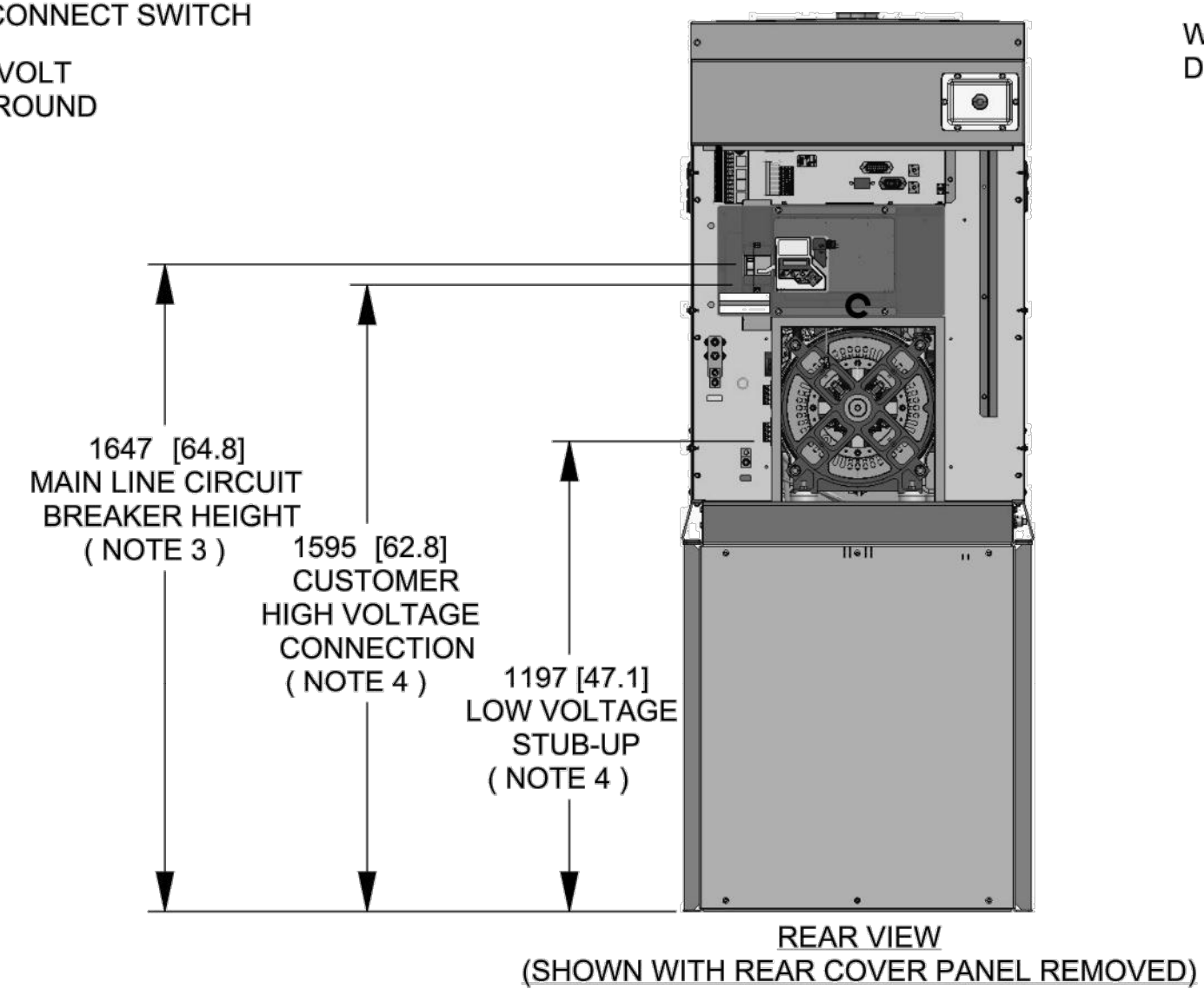
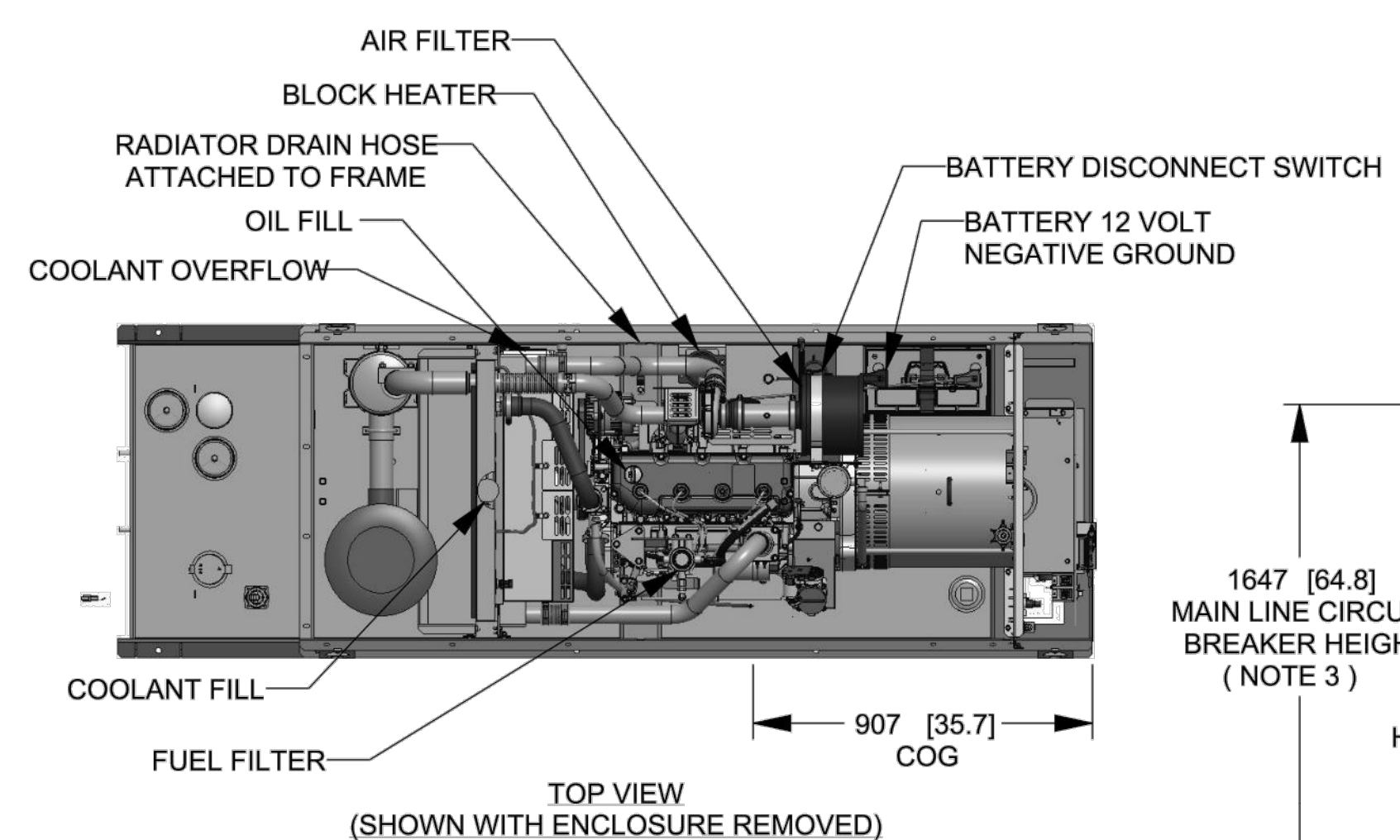
SHEET NUMBER  
**A-3**

SH	1/2	REV	A	WINDCHILL VERSION	A.1
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WEIGHT DATA WITH EMPTY BASETANK (SEE NOTE 6)	
GENERATOR AS SHOWN	1,322 [2,915]
WITH WOODEN SHIPPING SKID	1,340 [2,954]

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

- NOTES:
- THIS UNIT MUST BE INSTALLED IN ACCORDANCE WITH CURRENT APPLICABLE NFPA 37 AND NFPA 70 STANDARDS AS WELL AS ANY OTHER FEDERAL, STATE, AND LOCAL CODES.
  - BATTERY (12 VOLT NEGATIVE GROUND SYSTEM).
  - CONTROL PANEL / CIRCUIT BREAKER INFORMATION:
    - MAIN LINE CIRCUIT BREAKER 200 AMPS.
    - SEE SPECIFICATION SHEET OR OWNERS MANUAL.
    - ACCESSIBLE THROUGH CUSTOMER ACCESS ASSEMBLY DOOR ON REAR OF GENERATOR.
    - CONTROL PANEL INCLUDES INTEGRATED BATTERY CHARGER.
  - REMOVE THE REAR STUB-UP AND REAR ENCLOSURE COVER PANEL TO ACCESS THE STUB-UP AREAS AS FOLLOWS:
    - HIGH VOLTAGE CONNECTION INCLUDING AC LOAD LEAD CONDUIT CONNECTION, NEUTRAL CONNECTION, AND BATTERY CHARGER 120 VOLT AC (0.5 AMP MAX) CONNECTION.
    - LOW VOLTAGE CONNECTION INCLUDING TRANSFER SWITCH CONTROL WIRES.
  - ENGINE SERVICE CONNECTIONS:
    - OIL DRAIN = 1/2" NPT
    - RADIATOR DRAIN = HOSE CLAMPED TO FRAME
  - CENTER OF GRAVITY AND WEIGHT MAY CHANGE DUE TO UNIT OPTIONS.
  - BOTTOM OF GENERATOR SET MUST BE ENCLOSED TO PREVENT PEST INTRUSION AND RECIRCULATION OF DISCHARGE AIR AND/OR IMPROPER COOLING AIR FLOW.
  - REFERENCE OWNERS MANUAL FOR LIFTING WARNINGS.
  - MOUNTING BOLTS OR STUDS TO MOUNTING SURFACE SHALL BE 5/8-11 GRADE 5 (USE STANDARD SAE TORQUE SPECS)
  - MUST ALLOW FREE FLOW OF INTAKE AIR, DISCHARGE AIR AND EXHAUST. SEE SPEC SHEET FOR MINIMUM AIR FLOW AND MAXIMUM RESTRICTION REQUIREMENTS.
  - GENERATOR MUST BE INSTALLED SUCH THAT FRESH COOLING AIR IS AVAILABLE AND THAT DISCHARGE AIR FROM RADIATOR IS NOT RECIRCULATED. RECOMMENDED MINIMUM PERIMETER (3FT) AND VERTICAL OVER EXHAUST (5FT) CLEARANCE FOR SITE LOCATION.
  - GENERATOR MUST BE GROUNDED.



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

# INSTALLATION DRAWING

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ELECTRONICALLY APPROVED INSIDE WINDCHILL

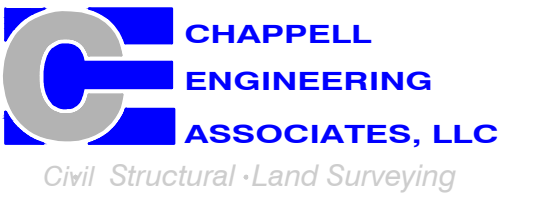
<b>GENERAC</b>			
TITLE INSTALL D3.4L G16 48KW Y06 EXT			
ISSUE DATE: 8/8/18			
SIZE B	CAGE NO N/A	DWG NO 10000041950	REV A
SCALE 0.035	WT-KG SEE ABOVE	SHEET 1 of 2	

T-MOBILE  
NORTHEAST LLC

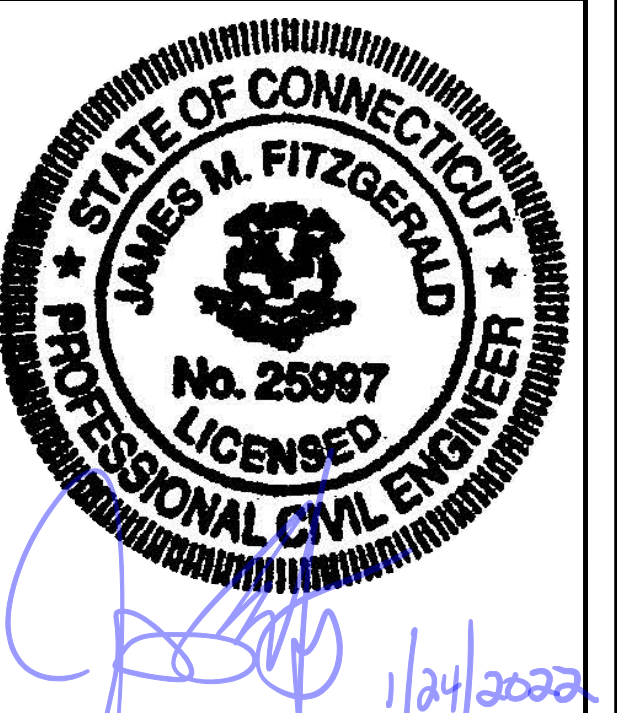
15 COMMERCE WAY, SUITE B  
NORTON, MA 02766  
(508) 286-2700



SBA COMMUNICATIONS CORP.  
134 FLANDERS ROAD, SUITE 125  
WESTBOROUGH, MA 01581  
(508) 251-0720



R.K. EXECUTIVE CENTRE  
201 BOSTON POST ROAD WEST, SUITE 101  
MARLBOROUGH, MA 01752  
(508) 481-7400  
www.chappellengineering.com



CHECKED BY: JMT

APPROVED BY: JMT

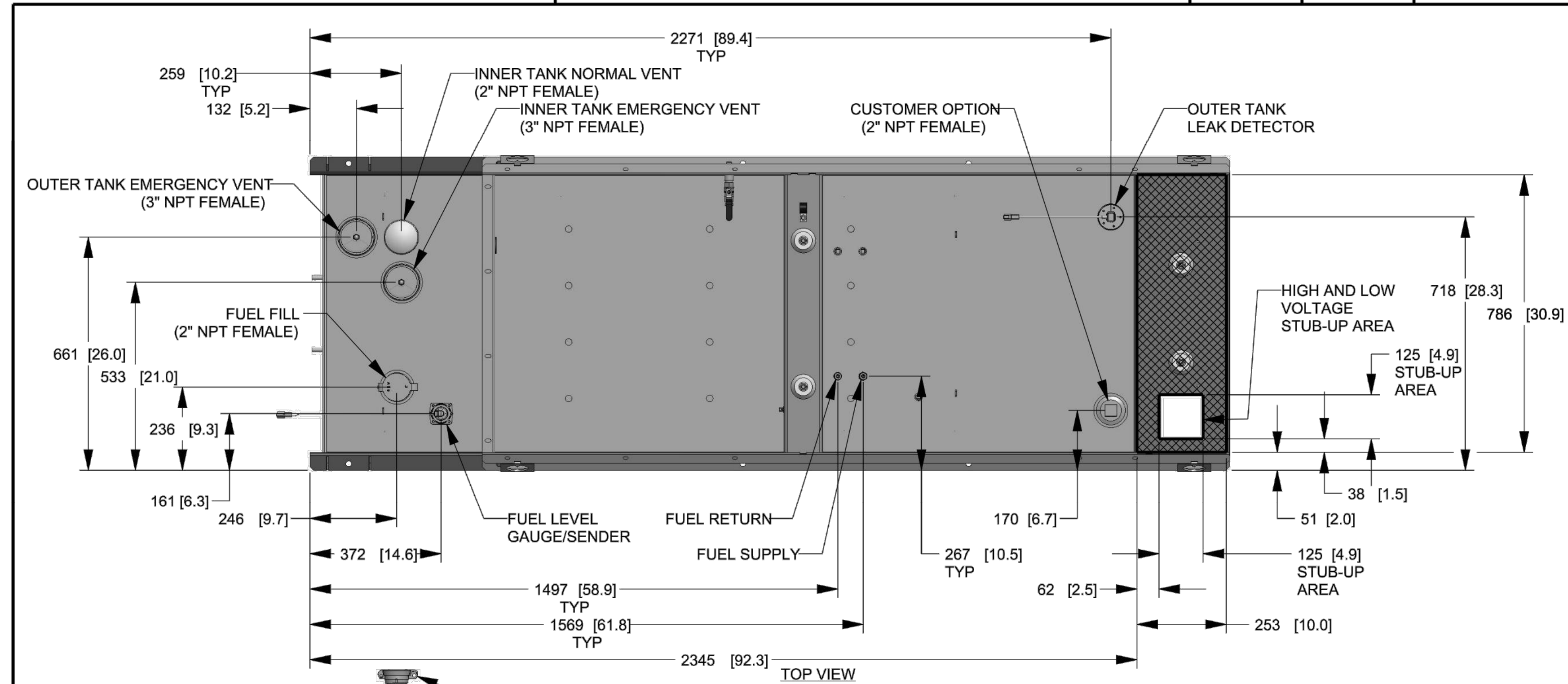
SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
1	01/21/22	ISSUED FOR CONSTRUCTION	BDJ
0	12/22/21	ISSUED FOR REVIEW	BDJ

SITE NUMBER:  
**CTNH303A**  
SITE ADDRESS:  
229 CHESHIRE ROAD  
PROSPECT, CT 06712

SHEET TITLE  
**GENERATOR SPECIFICATIONS 2**

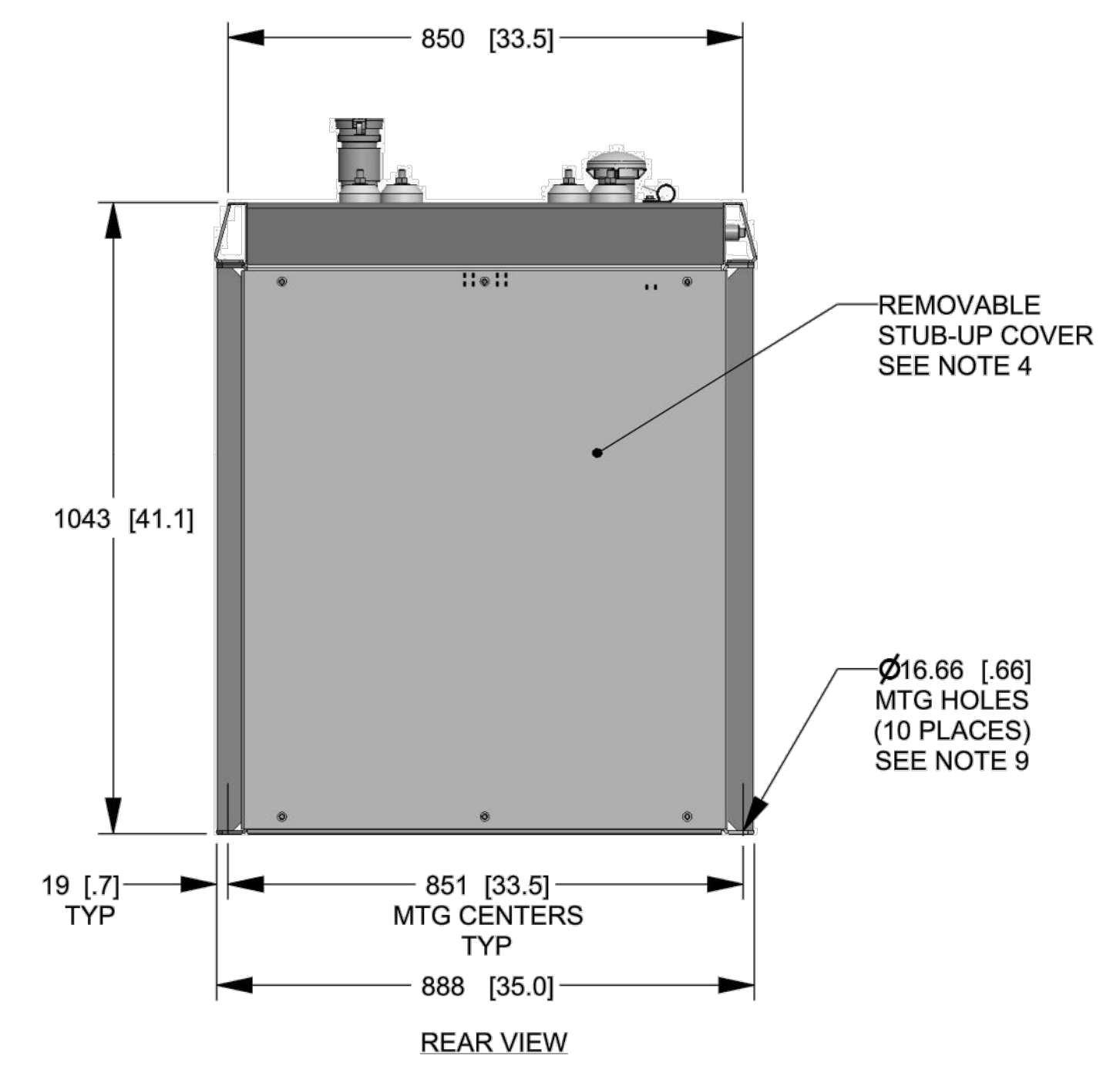
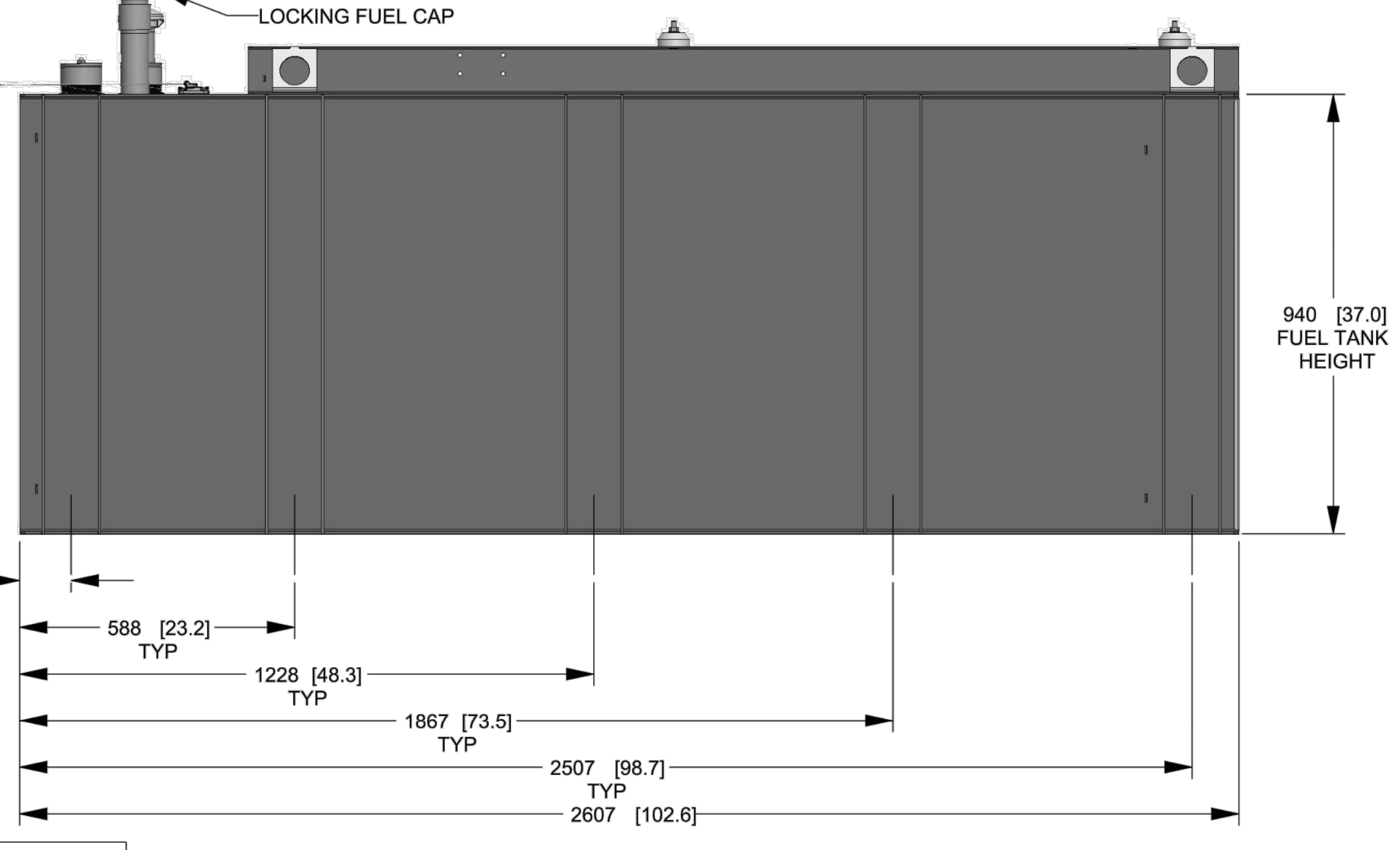
SHEET NUMBER  
**A-4**

SH	2/2	REV	A	WINDCHILL VERSION	A.1
----	-----	-----	---	-------------------	-----



FUEL TANK	
TOTAL CAPACITY	908 [240]
USABLE CAPACITY	867 [229]

CAPACITY: LITER [GALLON]  
DIMENSIONS: MM [INCH]  
TANK IS LISTED TO UL142 AND ULC5601  
NOTE: STUB-UP AREA FOR HIGH AND LOW VOLTAGE CONNECTIONS, CIRCUIT BREAKER, NEUTRAL AND CUSTOMER CONNECTION OPENING.



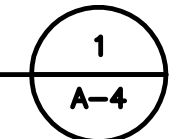
TITLE			
INSTALL D3.4L G16 48KW Y06 EXT			
ISSUE DATE: 8/8/18			
SIZE	CAGE NO	DWG NO	REV
B	N/A	10000041950	A
SCALE	0.060	WT-KG	SEE ABOVE SHEET 2 of 2

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

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ELECTRONICALLY APPROVED  
INSIDE WINDCHILL

# INSTALLATION DRAWING

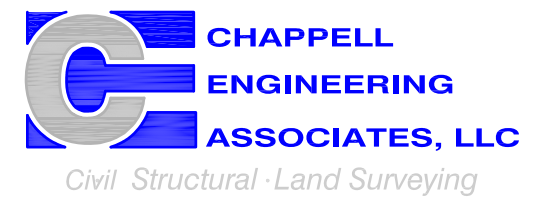


# T-MOBILE NORTHEAST LLC

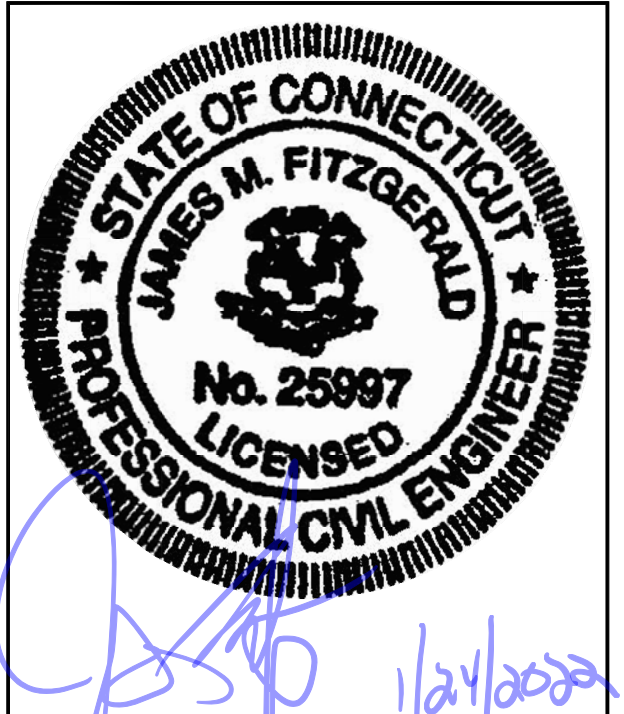
15 COMMERCE WAY, SUITE B  
NORTON, MA 02766  
(508) 286-2700



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www.chappellengineering.com



CHECKED BY: JMT

APPROVED BY: JMT

## SUBMITTALS

REV.	DATE	DESCRIPTION	BY
1	01/21/22	ISSUED FOR CONSTRUCTION	BDJ
0	12/22/21	ISSUED FOR REVIEW	BDJ

SITE NUMBER:

## CTNH303A

SITE ADDRESS:  
229 CHESHIRE ROAD  
PROSPECT, CT 06712

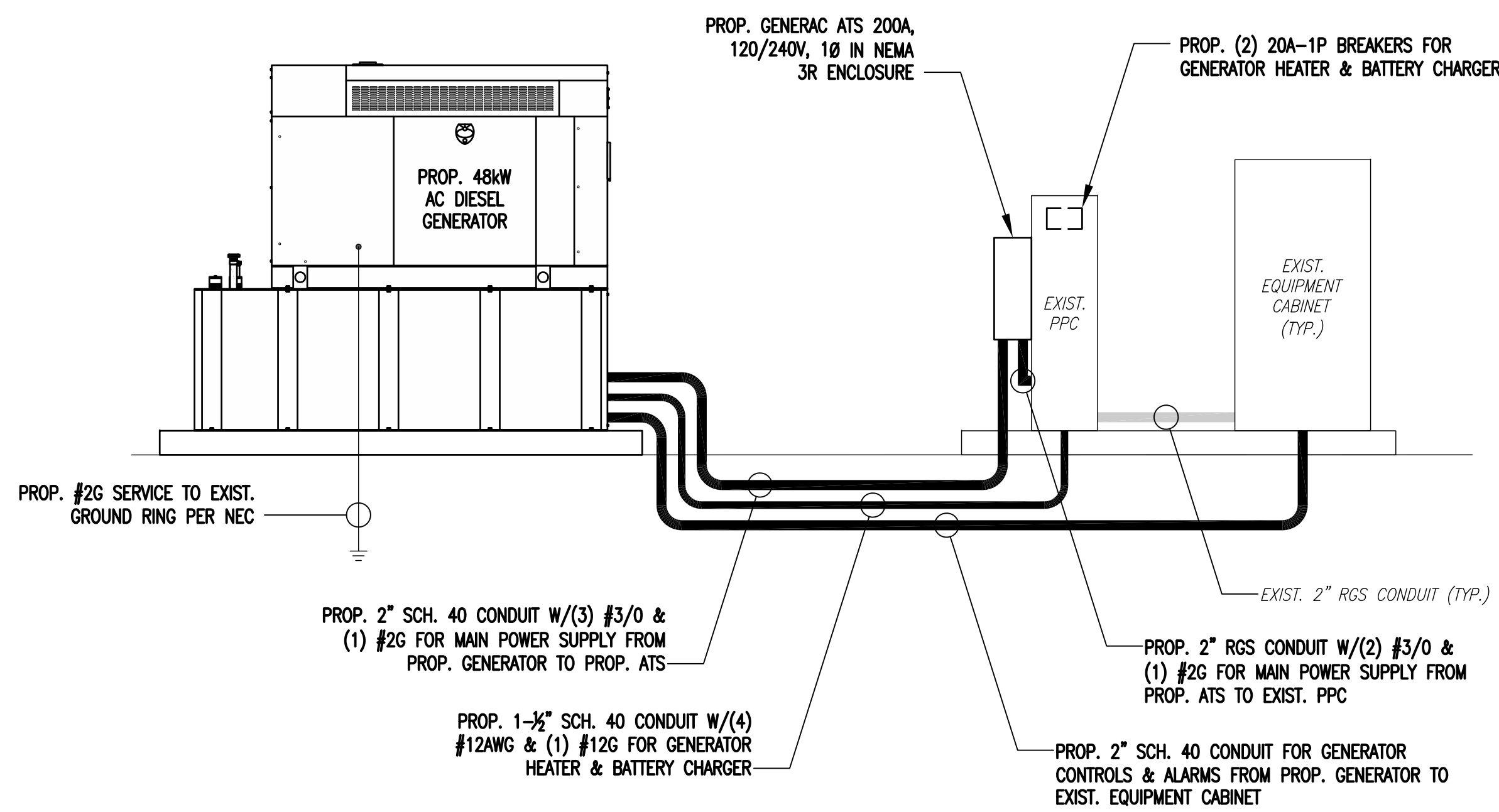
SHEET TITLE

### ELECTRIC & GROUNDING DETAILS

SHEET NUMBER

# E-1

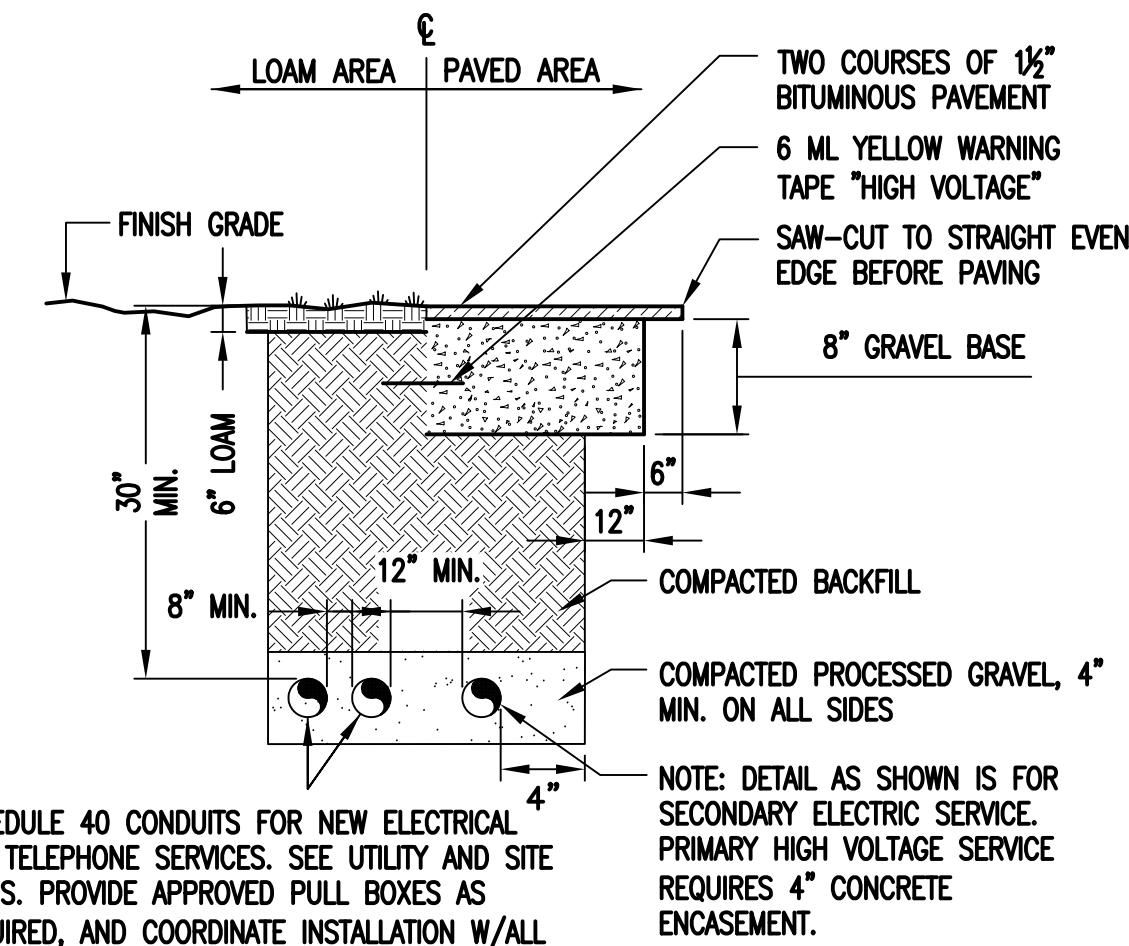
NOTE:  
CUT BACK (E) MAIN POWER CONDUIT, AS  
REQUIRED, & RECONNECT TO (P) ATS.



ONE-LINE POWER DIAGRAM

SCALE: NOT TO SCALE

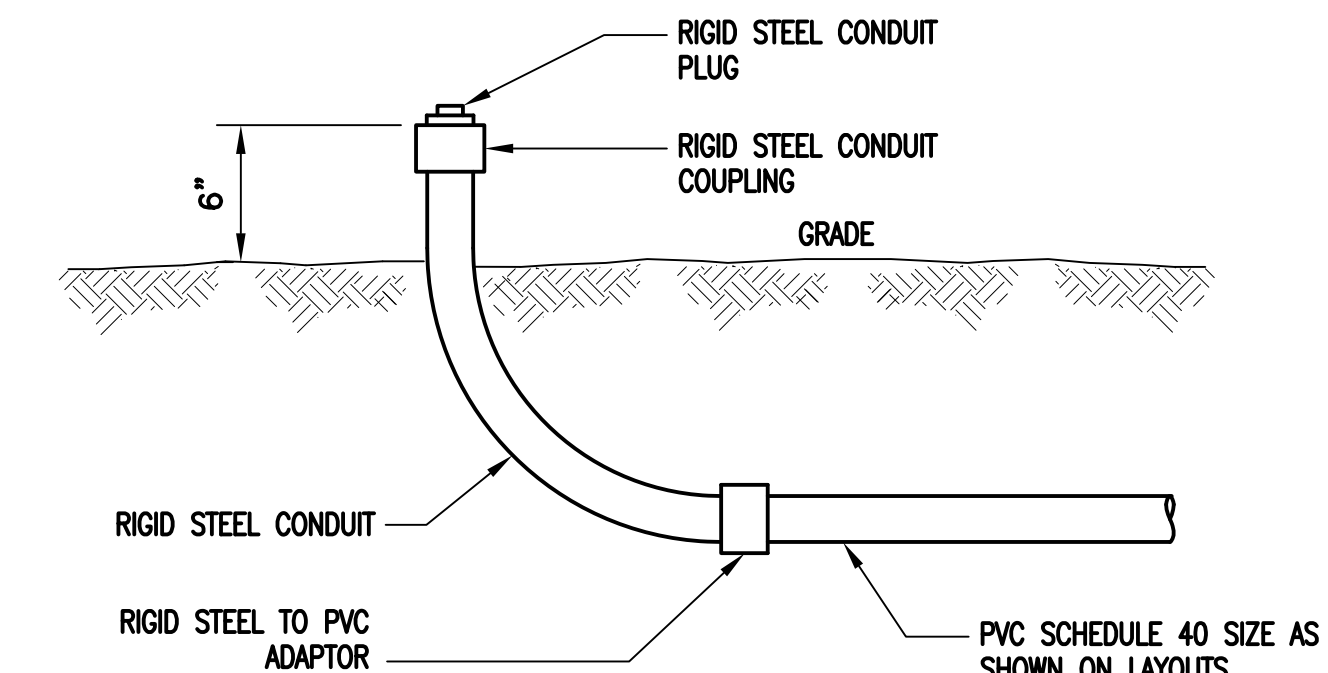
1  
E-1



BURIED CONDUIT DETAIL

SCALE: NOT TO SCALE

2  
E-1



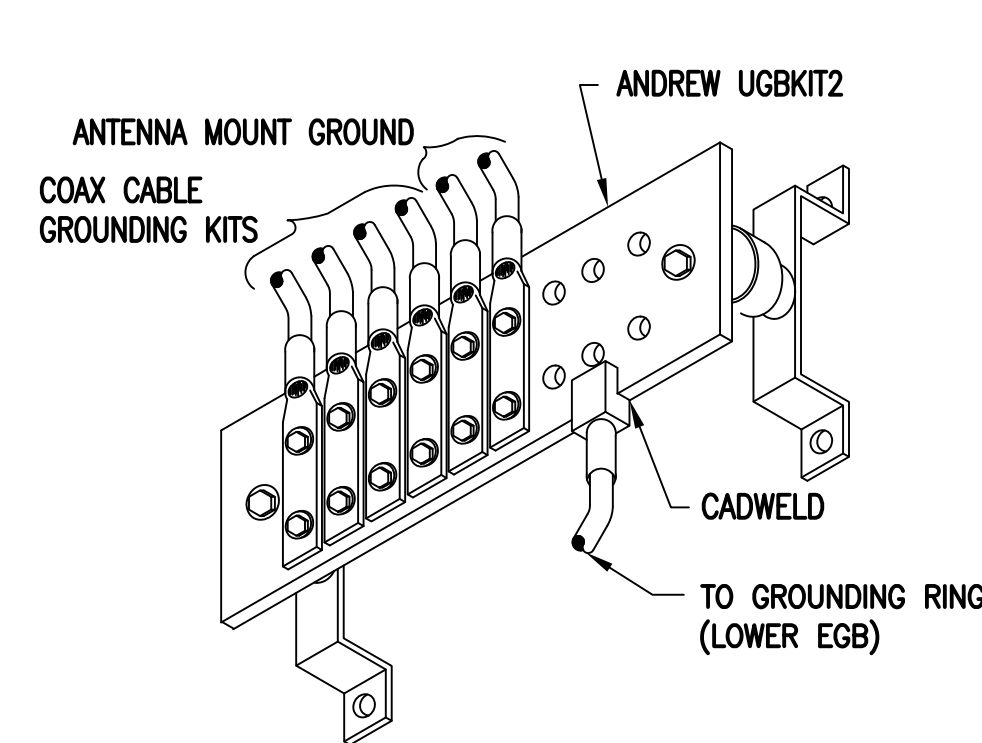
TYPICAL CONDUIT STUB-UP DETAIL

SCALE: NONE

3  
E-1

## ELECTRICAL AND GROUNDING NOTES

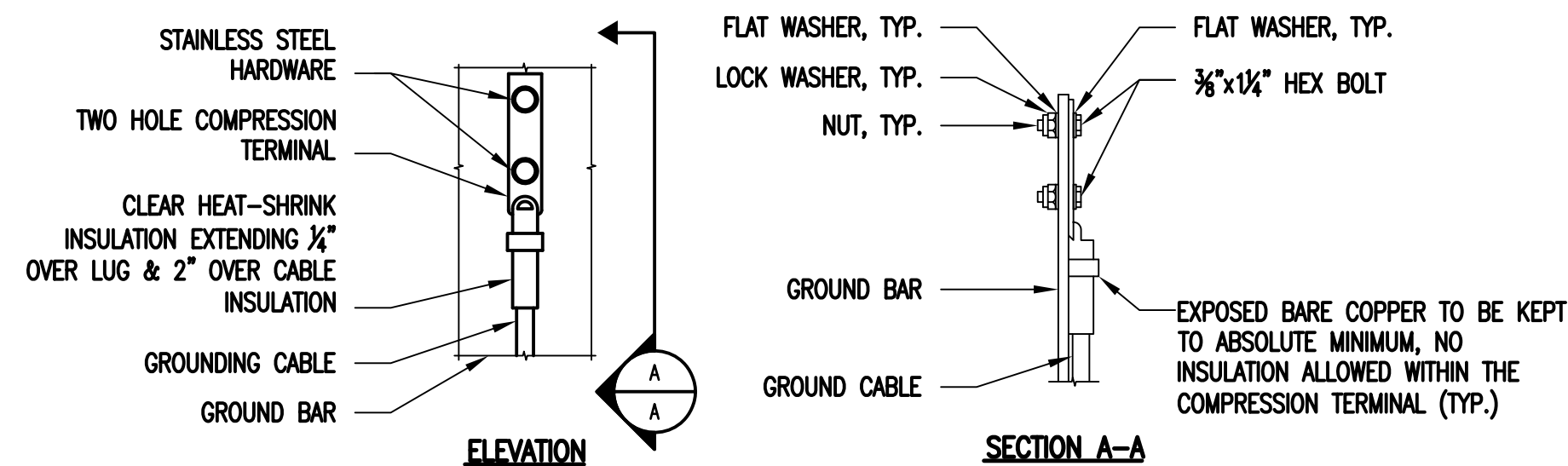
- ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.
- ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER SPECIFICATION REQUIREMENTS.
- THE ELECTRICAL WORK INCLUDES ALL LABOR AND MATERIAL DESCRIBED BY DRAWINGS AND SPECIFICATION INCLUDING INCIDENTAL WORK TO PROVIDE COMPLETE OPERATING AND APPROVED ELECTRICAL SYSTEM.
- GENERAL CONTRACTOR SHALL PAY FEES FOR PERMITS, AND IS 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.
- BURIED CONDUIT SHALL BE SCHEDULE 40 PVC.
- ELECTRICAL WIRING SHALL BE COPPER WITH TYPE XHHW, THHN, OR THHNSULATION.
- RUN ELECTRICAL CONDUIT OR CABLE BETWEEN ELECTRICAL UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE PPC AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPE. COORDINATE INSTALLATION WITH UTILITY COMPANY.
- RUN TELCO CONDUIT OR CABLE BETWEEN TELEPHONE UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE TELCO CABINET AND BTS CABINET AS INDICATED ON THIS DRAWING PROVIDE FULL LENGTH PULL ROPE IN INSTALLED TELCO CONDUIT. PROVIDE GREENLEE CONDUIT MEASURING TAPE AT EACH END.
- WHERE CONDUIT BETWEEN BTS AND PROJECT OWNER CELL SITE PPC AND BETWEEN BTS AND PROJECT OWNER CELL SITE TELCO SERVICE CABINET ARE UNDERGROUND USE PVC, SCHEDULE 40 CONDUIT. ABOVE THE GROUND PORTION OF THESE CONDUITS SHALL BE PVC CONDUIT.
- ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NEMA 3R ENCLOSURE.
- PPC SUPPLIED BY PROJECT OWNER.
- GROUNDING SHALL COMPLY WITH NEC ART. 250. ADDITIONALLY, GROUNDING, BONDING AND LIGHTNING PROTECTION SHALL BE DONE IN ACCORDANCE WITH "T-MOBILE BTS SITE GROUNDING STANDARDS".
- GROUND COAXIAL CABLE SHIELDS MINIMUM AT BOTH ENDS USING MANUFACTURERS COAX CABLE GROUNDING KITS SUPPLIED BY PROJECT OWNER.
- USE #6 COPPER STRANDED WIRE WITH GREEN COLOR INSULATION FOR ABOVE GRADE GROUNDING (UNLESS OTHERWISE SPECIFIED) AND #2 SOLID TINNED BARE COPPER WIRE FOR BELOW GRADE GROUNDING AS INDICATED ON THE DRAWING.
- ALL GROUND CONNECTIONS 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 GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NEVER BE BENT AT RIGHT ANGLE. ALWAYS MAKE AT LEAST 12" RADIUS BENDS. #6 WIRE CAN BE BENT AT 6" RADIUS WHEN NECESSARY. BOND ANY METAL OBJECTS WITHIN 6 FEET OF PROJECT OWNER EQUIPMENT OR CABINET TO MASTER GROUND BAR OR GROUNDING RING.
- CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.
- APPLY OXIDE INHIBITING COMPOUND TO ALL COMPRESSION TYPE GROUND CONNECTIONS.
- CONTRACTOR SHALL PROVIDE AND INSTALL OMNI DIRECTIONAL ELECTRONIC MARKER SYSTEM (EMS) BALLS OVER EACH GROUND ROD AND BONDING POINT BETWEEN EXIST. TOWER/ MONOPOLE GROUNDING RING AND EQUIPMENT GROUNDING RING.
- CONTRACTOR SHALL TEST COMPLETED GROUND SYSTEM AND RECORD RESULTS FOR PROJECT CLOSE-OUT DOCUMENTATION. 5 OHMS MINIMUM RESISTANCE REQUIRED.
- CONTRACTOR SHALL CONDUCT ANTENNA, COAX, AND LNA RETURN-LOSS AND DISTANCE- TO-FAULT MEASUREMENTS (SWEEP TESTS) AND RECORD RESULTS FOR PROJECT CLOSE OUT.



GROUND BAR (EGB)

SCALE: NOT TO SCALE

4  
E-1



### NOTES:

- "DOUBLING UP" OR "STACKING" OF CONNECTION IS NOT PERMITTED.
- OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.
- CADWELD DOWNLEADS FROM UPPER EGB, LOWER EGB AND MGB.

TYPICAL GROUND BAR  
CONNECTIONS DETAIL

SCALE: NOT TO SCALE

5  
E-1

# EXHIBIT 7

Generac RD048 48 KW  
48kw Diesel Specifications

RD048 | 3.4L | 48kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

Model Number  
48kW: G0071940

### Standby Power Rating

48 kW, 60 Hz

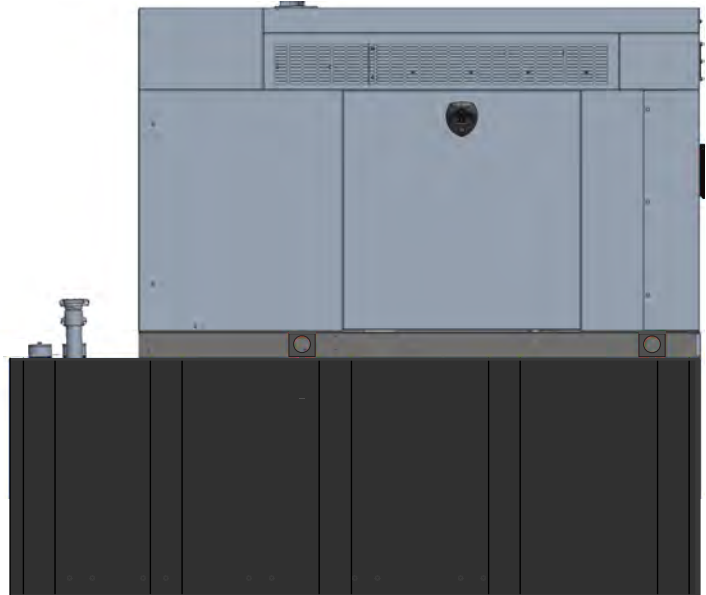


Image used for illustration purposes only



\*Built in the USA using domestic and foreign parts

## CODES AND STANDARDS

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



UL2200, UL508, UL489, UL142



CSA C22.2



BS5514 and DIN 6271



SAE J1349



NFPA 37, 70, 99



ISO 3046, 8528, 9001



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



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.

## INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

## STANDARD FEATURES

## ENGINE SYSTEM

- Block Heater
- Oil Drain Extension
- Fan Guard
- Factory Filled Oil & Coolant

## GENERATOR SET

- Sound Attenuated Aluminum Enclosure
- Internal Genset Vibration Isolation
- Separation of Circuits - High/Low Voltage
- Wrapped Exhaust Piping
- Standard Factory Testing
- Ready to Accept Full Load in <10 Seconds
- External Emergency Stop Push Button

## ENCLOSURE

- Lockable Doors- Keyed Lock with Padlock Hasp
- Rust Proof Hardware
- RhinoCoat™ Textured Polyester Powder Coat

## Electrical System

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

## ALTERNATOR SYSTEM

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

## 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

## Fuel System

- Primary Fuel Filter
- Stainless Steel Fuel Lines

## FUEL TANKS

- 48 Minimum Hour Run Time
- UL142 Listed
- Lockable Fuel Cap

## 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 Event Run Log
- Future Set Capable Exerciser
- Incorrect Wiring Protection
- Internal Fault Protection

- Common External Fault Capability
- Governor Failure Protection
- OBD2 Diagnostic Port

## Alarms

- Door Open
- Fuel Level
  - 90% Full
  - 50% Low Fuel
  - 10% Shutdown
- Generator Running
- Not in Auto
- Common Shutdown

## OPTIONAL SHIPPED LOOSE AND FIELD INSTALL KITS

## GENERATOR SET

- Paint Kit
- Scheduled Maintenance Kit

## FUEL TANK

- Fuel Fill Drop Tube
- Spill Box
- 90% Fuel Audible Alarm
- Tank Risers
- Spill Box Drainback Kit
- Vent Extension Support Kit
- Overfill Prevention Valve

**INDUSTRIAL DIESEL GENERATOR SET**

EPA Certified Stationary Emergency

**APPLICATION AND ENGINEERING DATA**

**ENGINE SPECIFICATIONS**

General	
Make	Generac
Cylinder #	4
Type	In-Line
Displacement - in <sup>3</sup> (L)	207.48 (3.4)
Bore - in (mm)	3.86 (98)
Stroke - in (mm)	4.45 (113)
Compression Ratio	18.5:1
Intake Air Method	Turbocharged/Aftercooled
Cylinder Head	Cast Iron OHV
Piston Type	Aluminum
Engine Governing	
Governor	Electronic
Frequency Regulation (Steady State)	±0.25%
Lubrication System	
Oil Pump Type	Gear
Oil Filter Type	Full Flow Spin-On Canister
Crankcase Capacity - L (qts)	7.0 (7.4)

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

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

Engine Electrical System	
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	F
Insulation Class - Stator	H
Total Harmonic Distortion	<5%
Telephone Interference Factor (TIF)	<50

Standard Excitation	Direct
Bearings	Sealed Ball
Coupling	Flexible Disc
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Full Digital
Regulation Accuracy (Steady State)	±1.0%

**INDUSTRIAL DIESEL GENERATOR SET**

EPA Certified Stationary Emergency

**OPERATING DATA**

**POWER RATINGS**

		Standby	
Single-Phase 120/240 VAC @1.0pf	48 kW	Amps: 200	Circuit Breaker Size Amps: 200

**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)

\* Fuel supply installation must accommodate fuel consumption rates at 100% load.

**COOLING**

		Standby
Air Flow (Radiator and Alternator)	cfm (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% for every 1000 ft over 3000 ft	
Maximum Ambient Temperature Operating Range	°F (°C)	-20 - 122 (-28 - 50)
Maximum Radiator Backpressure	in H <sub>2</sub> O	0.5

**COMBUSTION AIR REQUIREMENTS**

	Standby
Flow at Rated Power cfm (m³/min)	190 (5.38)

**ENGINE**

		Standby
Rated Engine Speed	rpm	1800

**EXHAUST**

		Standby
Exhaust Flow (Rated Output)	cfm (m³/min)	448 (12.7)
Exhaust Temp (Rated Output - Post Silencer)	°F (°C)	1120 (604.4)

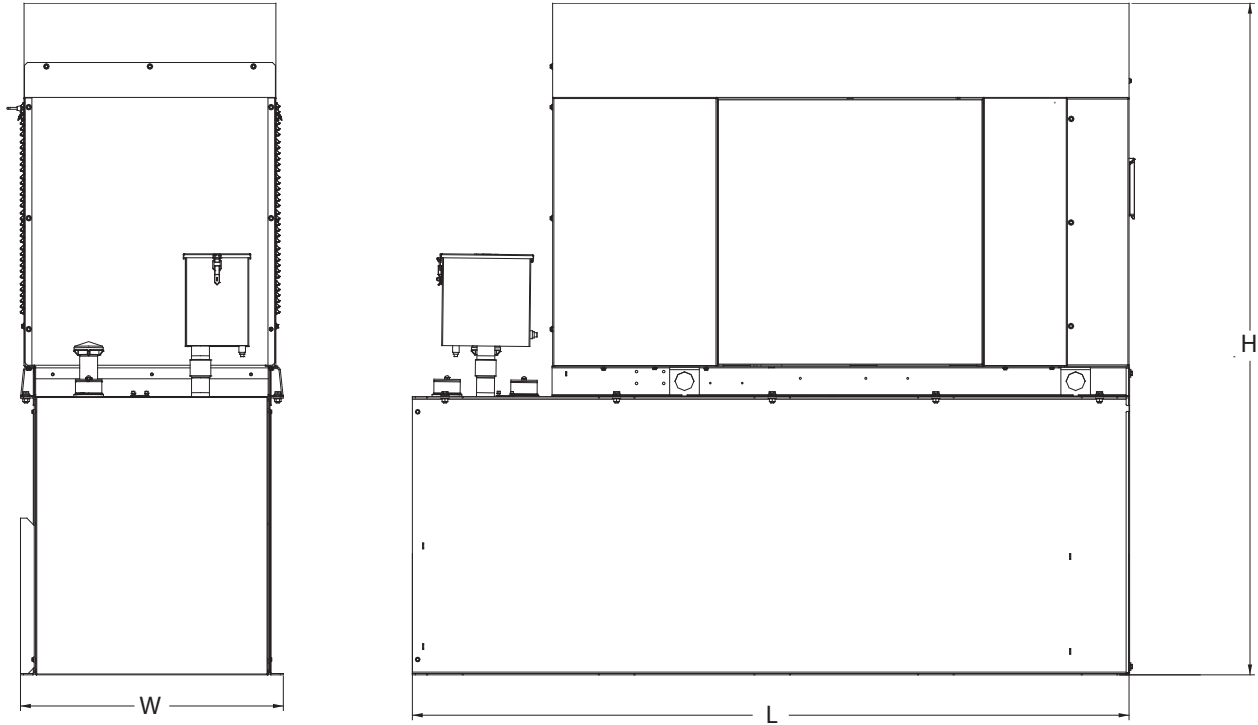
Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions. Please consult a Generac Power Systems Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528 and DIN6271 standards.



**INDUSTRIAL DIESEL GENERATOR SET**

EPA Certified Stationary Emergency

**DIMENSIONS AND WEIGHTS\***



**Weights and Dimensions**

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

**48kW Fuel Consumption**

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

\* All measurements are approximate and for estimation purposes only.

**Sound Emission Data**

Rated Load Sound Output at 23ft - dB(A)	65
---	----

<b>YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER</b>

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 8

Map showing nearest wetlands

- BASEMAPS >
- MAP LAYERS >
- Wetlands
  - Riparian
  - Riparian Mapping Areas
  - Data Source
    - Source Type
    - Image Scale
    - Image Year
  - Areas of Interest
  - FWS Managed Lands
  - Historic Wetland Data

