



Filed by:

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

October 29, 2021

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

RE: Notice of Exempt Modification
39 Nichols Rd., East Haddam, CT
Latitude: 41.521000
Longitude: -72.423200
T-Mobile Site #: CTHA603B_Hardening

Dear Ms. Bachman:

T-Mobile currently maintains ten (10) antennas at the 150-foot level of the existing 177-foot Monopole Tower at **39 Nichols Rd., East Haddam, CT**. The tower is owned by SBA Towers IX, LLC. The property is owned by the Town of East Haddam. T-Mobile now intends to add one (1) Generac RD048 Diesel generator to an existing concrete pad within an existing 101' 6" x 62' fenced in lease area with 12' wide double swing gate. The 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 25kw RD048 kw Diesel generator
- (1) RGS conduit for emergency power routed from prop. ATS to existing PPC
- (1) 2" RGS conduit for Ethernet cable for generator controls & Alarms
- (1) 2" RGS conduit for emergency power from prop. generator to proposed ATS
- (1) 1-1/2" RGS conduit for generator heater & Battery charger from existing PPC to prop. generator
- (1) Generac 200A, 120/240v automatic transfer switch to existing H-Frame (install additional unistrut, as required)

Remaining:

- T-Mobile Nextend compact 2416 fiber cabinet
- GPS Antenna on existing Ice bridge
- T-Mobile Ericsson 6102 equip. cabinet to existing concrete pad
- T-Mobile Ice Bridge
- T-Mobile cables routed along existing ice bridge

Remove:

- Existing T-Mobile generator mounted existing concrete pad

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 RD048kw 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" (w/fuel tank: 103.4" x 35" x 91.7"). It will sit fully within the leased area of the compound and will not require additional space for the supplementary tank.

Generac's RD048 kw 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 RD048kw 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 East Haddam, Middlesex County, which is as follows:

Maximum Continuous Noise Levels (measured in dBA):

The Planning and Zoning Commission, through the site plan review process, shall use the State's Noise Regulations as a guidance document in reviewing proposed U/Z/P&Z/POD/EHPOC&D 4/8/08 24 projects. The Commission should review the State standards and compare these standards to what is appropriate for a rural community.

Noise Pollution – The Connecticut General Statutes, under the Control of Noise Regulations (Title 22a Section 22a-69-1 to 22a-69-7.4), identify the limits of sounds that can be emitted from a specific premises, and what activities are exempt from the Noise Regulations.

Sec. 22a-69-3.5. Noise zone standards:

(a) No person in a Class C Noise Zone shall emit noise exceeding the levels stated herein and applicable to adjacent Noise Zones: Levels emitted in excess of the values listed above shall be considered excessive noise.

(b) No person in a Class B Noise Zone shall emit noise exceeding the levels stated herein and applicable to adjacent Noise Zones: Receptor Receptor C B A/Day A/Night Class C Emitter to 70 dBA 66 dBA 61 dBA 51 dBA.

The proposed modification will remain within the existing, fenced-in compound. The new generator and tank will be surrounded by the existing security fence and gate.

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 East Haddam's First Selectman, Robert R. Smith

and Chairman Planning & Zoning Commission, Crary H. Brownell and Linda Zemienski (SBA Town Payee contact on file). (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
508.868.6000 + C
GShepherd@sbasite.com

Attachments

cc: Robert R. Smith, First Selectman / with attachments
Municipal Office Complex, 1 Plains Rd., P.O. Box 385, Moodus, CT 06469
Crary H. Brownell, Chairman Planning & Zoning Commission / with attachments
Municipal Office Complex, 1 Plains Rd., P.O. Box 385, Moodus, CT 06469
Linda Zemienski (SBA Town Payee contact on file) / with attachments
Municipal Office Complex, 1 Plains Rd., P.O. Box 385, Moodus, CT 06469

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	CSC Docket No. 255 9/23/03
Exhibit 6	Construction Drawings	Chappell 10/15/21
Exhibit 7	Generator Specifications	x
Exhibit 8	Wetlands Map	x

EXHIBIT 1

Copy of Check for filing fee.

EXHIBIT 2

FedEx Labels

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

SHIP DATE: 29 OCT 21
 ACTWTG: 2.00 LB
 CAD: 105843304/NET14400
 BILL SENDER

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

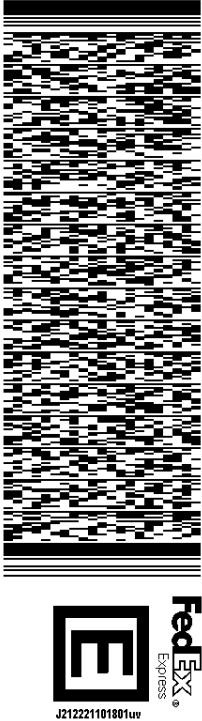
NEW BRITAIN CT 06051
 (508) 251-0720 X 3807

REF: 1056 92009 60099

PO

DEPT

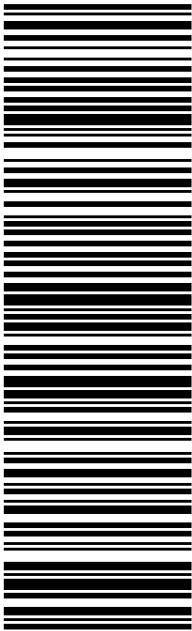
56DJ3/14BAFE4A



MON - 01 NOV 10:30A
PRIORITY OVERNIGHT

TRK# **7750 6725 4676**
 0201

SE BDLA
 06051
 CT-US
 BDL



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Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

[TRACK ANOTHER SHIPMENT](#)

775067254676

[ADD NICKNAME](#)[ON TIME](#)

Scheduled delivery:
Monday, 11/1/2021

**PICKED UP**

WESTBOROUGH, MA

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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

[Travel History](#)[Shipment Facts](#)

TIME ZONE
Local Scan Time



Friday, October 29,
2021

2:05 PM

WESTBOROUGH, MA

Picked up
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11:06 AM

Shipment information sent to FedEx

Shipment Facts

TRACKING NUMBER

775067254676

SERVICE

FedEx Priority Overnight

WEIGHT

2 lbs / 0.91 kgs

TOTAL PIECES

1

TOTAL SHIPMENT WEIGHT

0.91 lbs / 0.91 kgs

TERMS

Standard

ORIGIN ID:BBFA (508) 614-0389
 RICK WOODS ACTWTG: 1.00 LB
 SBA COMMUNICATIONS CORPORATION CAD: 105843304/NET4400
 SUITE 125
 WESTBOROUGH, MA 01581
 UNITED STATES US

SHIP DATE: 29 OCT 21
 ACTWTG: 1.00 LB
 CAD: 105843304/NET4400
 BILL SENDER

TO ROBERT R. SMITH

MUNICIPAL OFFICE COMPLEX

FIRST SELECTMAN

1 PLANIS RD.,

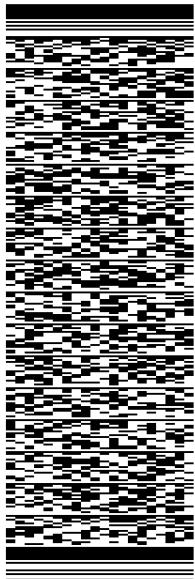
MOODUS CT 06469

(508) 251-0720 X 3807

INN

PO

REF: 1056 92009 60099
 DEPT:



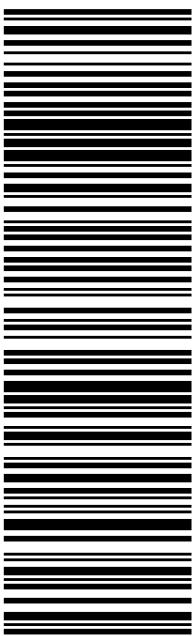
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MON - 01 NOV 12:00P
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FROM
SBA COMMUNICATIONS CORPORATION
Rick Woods
134 Flanders Rd
Suite 125
WESTBOROUGH, MA US 01581
508-614-0389

TO
Robert R. Smith
Municipal Office Complex
First Selectman
1 Planis Rd.,
MOODUS, CT US 06469
508-251-0720

[MANAGE DELIVERY](#)

Travel History

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TIME ZONE
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Friday, October 29,
2021

2:05 PM

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11:08 AM

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Shipment Facts

TRACKING NUMBER

775067288078

SERVICE

FedEx Priority Overnight

WEIGHT

0.5 lbs / 0.23 kgs

TOTAL PIECES

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TOTAL SHIPMENT WEIGHT

0.5 lbs / 0.23 kgs

TERMS

Standard

ORIGIN ID:BBFA (508) 614-0389
 RICK WOODS ACTWGT: 1.00 LB
 SBA COMMUNICATIONS CORPORATION CAD: 105843304/NET4400
 SUITE 125
 WESTBOROUGH, MA 01581
 UNITED STATES US

SHIP DATE: 29 OCT 21
 ACTWGT: 1.00 LB
 CAD: 105843304/NET4400
 BILL SENDER

To Crary H. Brownell

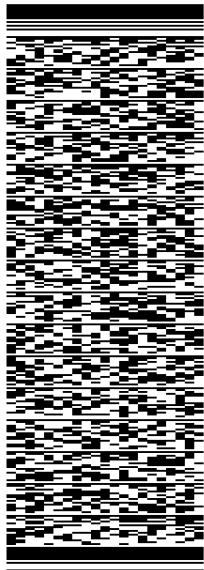
Municipal Office Complex

Chairman P & Z
 1 Planis Rd.,

Moodus CT 06469
 (508) 251-0720 X 3807

REF: 1056 92009 60099
 INV
 PO
 DEPT

56DJ3/14BAFE4A



J212221101901uv

MON - 01 NOV 12:00P
 PRIORITY OVERNIGHT

TRK#
 0201

7750 6730 2958

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06469
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 BDL

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775067302958

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Scheduled delivery:
Monday, 11/1/2021

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

TO
Crary H. Brownell
Municipal Office Complex
Chairman P & Z
1 Planis Rd.,
MOODUS, CT US 06469
508-251-0720

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Travel History

TIME ZONE
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Friday, October 29,
2021

2:05 PM

WESTBOROUGH, MA

Picked up
Tendered at FedEx Office

11:09 AM

Shipment information sent to FedEx

Shipment Facts

TRACKING NUMBER

775067302958

SERVICE

FedEx Priority Overnight

WEIGHT

0.5 lbs / 0.23 kgs

TOTAL PIECES

1

TOTAL SHIPMENT WEIGHT

0.5 lbs / 0.23 kgs

TERMS

Standard

ORIGIN ID:BBFA (508) 614-0389
 RICK WOODS ACTWGT: 1.00 LB
 SBA COMMUNICATIONS CORPORATION CAD: 105843304/NET4400
 134 FLANDERS RD
 SUITE 125
 WESTBOROUGH, MA 01581
 UNITED STATES US

SHIP DATE: 29 OCT 21
 PRIORITY OVERNIGHT
 PO ACTWGT: 1.00 LB
 DEPT: CAD: 105843304/NET4400
 BILL SENDER

TO LINDA ZEMIENSKI
 MUNICIPAL OFFICE COMPLEX
 1 PLANIS RD.,

MOODUS CT 06469

(508) 251-0720 X 3807

REF: 1056 92009 60099
 INW
 PO

56DJ3/14BAFE4A



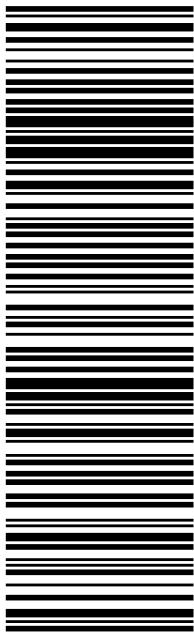
MON - 01 NOV 12:00P
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TRK#
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7750 6731 7858

06469
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Rick Woods
134 Flanders Rd
Suite 125
WESTBOROUGH, MA US 01581
508-614-0389

TO
Linda Zemienski
Municipal Office Complex
1 Planis Rd.,
MOODUS, CT US 06469
508-251-0720

[MANAGE DELIVERY](#)[Travel History](#)[Shipment Facts](#)

Travel History

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Friday, October 29,
2021

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11:10 AM

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Shipment Facts

TRACKING NUMBER

775067317858

SERVICE

FedEx Priority Overnight

WEIGHT

0.5 lbs / 0.23 kgs

TOTAL PIECES

1

TOTAL SHIPMENT WEIGHT

0.5 lbs / 0.23 kgs

TERMS

Standard

EXHIBIT 3

Property Card

39 NICHOLS RD

Location 39 NICHOLS RD

Mblu M75/ / L021/ /

Acct# 00416200

Owner EAST HADDAM TOWN OF

Assessment \$598,310

Appraisal \$854,720

PID 4621

Building Count 3

Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2017	\$191,700	\$663,020	\$854,720
Assessment			
Valuation Year	Improvements	Land	Total
2017	\$134,190	\$464,120	\$598,310

Owner of Record

Owner EAST HADDAM TOWN OF

Sale Price \$0

Co-Owner TRANSFER STATION-KENNEL

Certificate

Address PO BOX 385
MOODUS, CT 06469

Book & Page 91/ 80

Sale Date 05/09/1969

Ownership History

Ownership History				
Owner	Sale Price	Certificate	Book & Page	Sale Date
EAST HADDAM TOWN OF	\$0		91/ 80	05/09/1969

Building Information

Building 1 : Section 1

Year Built: 1982

Living Area: 798

Replacement Cost: \$44,903

Building Percent Good: 76

Replacement Cost

Less Depreciation: \$34,100

Building Attributes

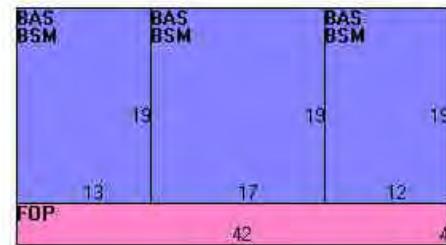
Field	Description
STYLE	Light Industrial
MODEL	Ind/Comm
Grade	C
Stories:	2
Occupancy	1
Exterior Wall 1	Vinyl Siding
Exterior Wall 2	
Roof Structure	Gable
Roof Cover	Asphalt
Interior Wall 1	Drywall
Interior Wall 2	
Interior Floor 1	Concrete
Interior Floor 2	
Heating Fuel	None
Heating Type	None
AC Percent	0
Foundation	N/A
Bldg Use	Exempt Ind
Total Rooms	0
Total Bedrms	0
Total Fixtures	6
% Sprinklers	0
Bsmt Area	0
1st Floor Use:	
Heat/AC	Typical
Frame Type	Wood Frame
Baths/Plumbing	Average
Ceiling/Wall	None
Rooms/Prtns	None / N/A
Wall Height	8
% Conn Wall	0

Building Photo



(http://images.vgsi.com/photos/EastHaddamCTPhotos//00\00\69\03.jpg)

Building Layout



(http://images.vgsi.com/photos/EastHaddamCTPhotos//Sketches/4621_46.

Building Sub-Areas (sq ft)		Legend	
Code	Description	Gross Area	Living Area
BAS	First Floor	798	798
BSM	Basement	798	0
FOP	Open Porch	168	0
		1,764	798

Building 2 : Section 1

Year Built:	2010
Living Area:	1,920
Replacement Cost:	\$69,696
Building Percent Good:	93
Replacement Cost	
Less Depreciation:	\$64,800

Building Attributes : Bldg 2 of 3

Field	Description

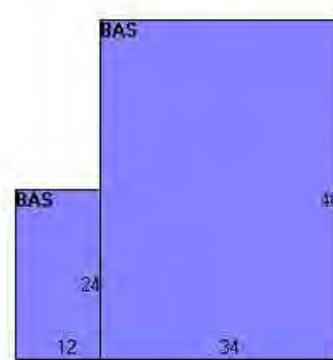
STYLE	Pre-Eng Warehs
MODEL	Ind/Comm
Grade	C
Stories:	1
Occupancy	1
Exterior Wall 1	Pre-Finish Metl
Exterior Wall 2	
Roof Structure	Shed
Roof Cover	Metal
Interior Wall 1	Minimum
Interior Wall 2	
Interior Floor 1	Concrete
Interior Floor 2	
Heating Fuel	None
Heating Type	None
AC Percent	0
Foundation	Slab
Bldg Use	Industrial
Total Rooms	
Total Bedrms	
Total Fixtures	
% Sprinklers	0
Bsmt Area	
1st Floor Use:	
Heat/AC	None
Frame Type	Steel
Baths/Plumbing	Average
Ceiling/Wall	None
Rooms/Prtns	Average
Wall Height	14
% Comm Wall	

Building Photo



(<http://images.vgsi.com/photos/EastHaddamCTPhotos//00\00\69\04.jpg>)

Building Layout



(http://images.vgsi.com/photos/EastHaddamCTPhotos//Sketches/4621_10)

Building Sub-Areas (sq ft)		Legend	
Code	Description	Gross Area	Living Area
BAS	First Floor	1,920	1,920
		1,920	1,920

Building 3 : Section 1

Year Built: 2012

Living Area: 336

Replacement Cost: \$24,157

Building Percent Good: 95

Replacement Cost

Less Depreciation: \$22,900

Building Attributes : Bldg 3 of 3

Field	Description
STYLE	Kennel

MODEL	Ind/Comm
Grade	C
Stories:	1
Occupancy	1
Exterior Wall 1	Concr/Cinder
Exterior Wall 2	Vinyl Siding
Roof Structure	Gable
Roof Cover	Asphalt
Interior Wall 1	Minimum
Interior Wall 2	
Interior Floor 1	Concrete
Interior Floor 2	
Heating Fuel	Propane
Heating Type	Space Heat
AC Percent	1
Foundation	
Bldg Use	Industrial
Total Rooms	
Total Bedrms	
Total Fixtures	
% Sprinklers	
Bsmt Area	
1st Floor Use:	
Heat/AC	None
Frame Type	Masonry
Baths/Plumbing	None
Ceiling/Wall	None
Rooms/Prtns	None / N/A
Wall Height	7
% Comm Wall	

Building Photo



(http://images.vgsi.com/photos/EastHaddamCTPhotos//default.jpg)

Building Layout



(http://images.vgsi.com/photos/EastHaddamCTPhotos//Sketches/4621_10)

Building Sub-Areas (sq ft)		<u>Legend</u>	
Code	Description	Gross Area	Living Area
BAS	First Floor	336	336
FOP	Open Porch	567	0
SLB	Slab	336	0
		1,239	336



Extra Features

Extra Features

Legend

No Data for Extra Features

Land

Land Use

Land Line Valuation

Use Code	301E	Size (Acres)	120.86
Description	Exempt Ind	Frontage	
Zone	R2	Depth	
Neighborhood		Assessed Value	\$464,120
Alt Land Appr	No	Appraised Value	\$663,020
Category			

Outbuildings

Outbuildings						Legend
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
PAV1	Paving			31080 S.F.	\$46,600	2
SHD1	Shed			200 S.F.	\$1,800	1
SHD1	Shed			80 S.F.	\$700	3
CNP	Canopy			200 S.F.	\$2,000	3
LNT	Lean To			210 S.F.	\$500	1
PAV1	Paving			8500 S.F.	\$7,700	2
SHD1	Shed			160 S.F.	\$1,500	1
SHD1	Shed			120 S.F.	\$800	1
SHP1	WorkShop Heated			200 S.F.	\$3,000	1
GAZ	Gazebo			250 S.F.	\$5,300	1

Valuation History

Appraisal			
Valuation Year	Improvements	Land	Total
2020	\$191,700	\$663,020	\$854,720
2018	\$191,700	\$663,020	\$854,720
2017	\$191,700	\$663,020	\$854,720

Assessment			
Valuation Year	Improvements	Land	Total
2020	\$134,190	\$464,120	\$598,310
2018	\$134,190	\$464,120	\$598,310
2017	\$134,190	\$464,120	\$598,310

EXHIBIT 4

Property Map

Google Maps

39 Nichols Rd



Imagery ©2021 Maxar Technologies, U.S. Geological Survey, USDA Farm Service Agency, Map data ©2021

100 ft



39 Nichols Rd



Directions



Save



Nearby



Send to your phone



Share



39 Nichols Rd, Moodus, CT 06469



GHCG+84 Moodus, East Haddam, CT

EXHIBIT 5

Zoning Documents

Connecticut Siting Council

Decisions

DOCKET NO. 255 - Message Center } Connecticut
Management application for a Certificate of
Environmental Compatibility and Public Need } Siting
for the construction, maintenance and
operation of a telecommunications facility in } Council
East Haddam, Connecticut.

September 23, 2003

Decision and Order

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council (Council) finds that the effects associated with the construction, operation, and maintenance of a telecommunications facility including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forests and parks; air and water purity; and fish and wildlife are not disproportionate either alone or cumulatively with other effects when compared to need, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application and therefore directs that a Certificate of Environmental Compatibility and Public Need, as provided by General Statutes § 16-50k, be issued to Message Center Management (MCM) for the construction, maintenance and operation of a wireless telecommunications facility at the proposed site located on Nichols Road, East Haddam, Connecticut.

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

1. The tower shall be constructed as a monopole, no taller than necessary to provide the proposed telecommunications services, sufficient to accommodate the antennas of AT&T and other entities, both public and private, but such tower shall not exceed a height of 175 feet above ground level.
2. The Certificate Holder shall prepare a Development and Management (D&M) Plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of Connecticut State Agencies. The D&M Plan shall be submitted to and approved by the Council prior to the commencement of facility construction and shall include:
 - a. a detailed site development plan that depicts the location of the access road, compound, tower, and utility line;

- b. specifications for the tower, tower foundation, antennas, equipment building, and security fence;
- c. construction plans for site clearing, water drainage, and erosion and sedimentation control consistent with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended.

3 The Certificate Holder shall, prior to the commencement of operation, provide the Council worst-case modeling of electromagnetic radio frequency power densities of all proposed entities' antennas at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin No. 65, August 1997. The Certificate Holder shall provide a recalculated report of electromagnetic radio frequency power density if and when circumstances in operation cause a change in power density above the levels calculated and provided pursuant to this Decision and Order.

4. Upon the establishment of any new state or federal radio frequency standards applicable to frequencies of this facility, the facility granted herein shall be brought into compliance with such standards.

5. The Certificate Holder shall permit public or private entities to share space on the proposed tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing. Upon request, the Certificate Holder shall provide space on its tower for Town of East Haddam antennas at no cost to the Town.

6. If the facility does not initially provide wireless services within one year of completion of construction or ceases to provide wireless services for a period of one year, this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made.

7. Any antenna that becomes obsolete and ceases to function shall be removed within 60 days after such antennas become obsolete and cease to function.

8. Unless otherwise approved by the Council, this Decision and Order shall be void if the facility authorized herein is not operational within one year of the effective date of this Decision and Order or within one year after all appeals to this Decision and Order have been resolved.

Pursuant to General Statutes § 16-50p, we hereby direct that a copy of the Findings of Fact, Opinion, and Decision and Order be served on each person listed below, and notice of issuance shall be published in The Hartford Courant.

By this Decision and Order, the Council disposes of the legal rights, duties, and privileges of each party named or admitted to the proceeding in accordance with



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@pd.state.ct.us

Web Site: www.pslc.ed.ac.uk/csc/index.htm

November 10, 2003

Peter J. Tyrrell
Levy & Droney, P.C.
Pond View Corporate Center
74 Batterson Park Road
Farmington, CT 06032

Re: DOCKET NO. 255 - Message Center Management application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a telecommunications facility in East Haddam, Connecticut.

Dear Attorney Tyrrell:

At a public meeting held on October 29, 2003, the Connecticut Siting Council (Council) considered and approved the Development and Management Plan (D&M Plan) for the East Haddam facility.

This approval applies only to the D&M Plan as submitted October 22, 2003. Any other changes to this D&M Plan require advance Council notification and approval. Failure to obtain Council approval before implementing any changes to this D&M plan 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.

Please notify the Council two weeks prior to the commencement of construction.

Enclosed is a copy of the staff report on the D&M Plan, dated October 29, 2003.

Very truly yours,

Pamela B. Katz, P.E.
Chairman

Pamela B. Katz, P.E.
Chairman

SDP/af

c: Parties and Intervenors

Enclosure (1)

**Docket 255: Message Center Management
169 Trowbridge Road
East Haddam, Connecticut
Development & Management Plan
Staff Report
October 29, 2003**

On September 23, 2003, the Council issued a Certificate of Environmental Compatibility and Public Need to Message Center Management (MCM) for the construction, maintenance, and operation of a cellular telecommunications facility at 169 Trowbridge Road, East Haddam, Connecticut. As required in the Council's Decision and Order, MCM submitted a Development and Management (D&M) Plan for this facility on October 23, 2003.

The site to be developed is on a 127-acre parcel owned by the Town of East Haddam. The property is used for various town purposes including a recycling center, a bulky waste transfer station, and a dog pound. A portion of the property was formerly used as a bulky waste landfill.

The facility compound would consist of a 60-foot by 100-foot area with a gravel surface enclosed by an 8-foot high chain link fence. Electric and telephone services would be brought to the compound via underground conduits that would originate at existing CL&P pole #4771. The facility would share a portion of the dog pound's graveled driveway. A small parking area off this driveway would be created within which the transformer and meter board would be located.

The tower would be built to a height of 175 feet and would be expandable to 195 feet. Because of the possibility of contamination, soil excavated at the site would be stockpiled within a silt fence barrier and tested for proper disposal.

All of the elements of the Council's D&M Plan requirements appear to be in compliance. Staff recommends approval of this Plan.

TOWN OF EAST HADDAM

ZONING AND BUILDING APPLICATION

Your application can not be reviewed until all required information is provided.

Permit # 0601-0404

Location 3 Nichols Rd (Transfer Station)

No.

Street

Map # 75

Lot # 19

Lot Size 60'X100' Zone _____

Owner's Name Message Center Management, Inc.

Mailing Address 40 Woodland St.

No. _____ Street _____

P.O. Box _____

Hartford

CT

06105

Town _____

State _____

Zip _____

Phone # (860) 547-1444

Contractor Nelson Communications

Mailing Address P.O. Box 1936

No. _____ Street _____

P.O. Box _____

Conway

NH

03818

Town _____

State _____

Zip _____

License # 901254

Phone # (603) 447-8879

CONSTRUCTION: New Alteration Addition Repair Demolition Estimated Cost \$132,000

BRIEF DESCRIPTION OF PROPOSED WORK: Installation of Telecommunications Tower at

Transfer Station as certified by Connecticut Siting Council

PROPOSED	Total Sq. Ft.	No. of	Building	# Existing	Total #
NEW WORK:	of New Work	Stories	Height	Bedrooms	Bedrooms
	<u>6000</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>

SEPARATE PERMITS ARE REQUIRED FOR ELECTRICAL, HEATING, PLUMBING, WELL, WELL PUMP AND SEPTIC SYSTEMS

OTHER APPROVALS OR REVIEWS REQUIRED/RECEIVED

Tax Collector J. P. Stebbins

Historic Comm. _____

Variance _____

Inland Wetlands _____

Driveway Permit _____

Chatham Health District 4/15/04

Fire Marshal _____

Other Connecticut Siting Council

PROPOSED WORK

Is any work being done in Historical District? Yes No

Is any work being done within 75 feet of a lake, pond, river, perennial stream and/or soil types designated as poorly drained, very poorly drained, alluvial and floodplain? Yes No

Virginia King
Owner

4-15-04

Date

Agent

Date

OFFICE USE ONLY

APPROVED DISAPPROVED Permit Fee Pd 300 Ck# 521232

Zoning Official J. P. Stebbins

Date 4/15/04

Comments _____

APPROVED DISAPPROVED Permit Fee Pd 1325⁰⁰ Ck# 205168

Building Official John

Date 6/1/04

Comments See Plan Review - Comply with
1999 CT STATE BUILDING CODE -

Gold: Applicant

W/C on file CYP 2/10/04

EXHIBIT 6

Construction Drawings



By Stephen Roth at 3:12:08 PM, 10/15/2021

CTHA603B

APPROVALS

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

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

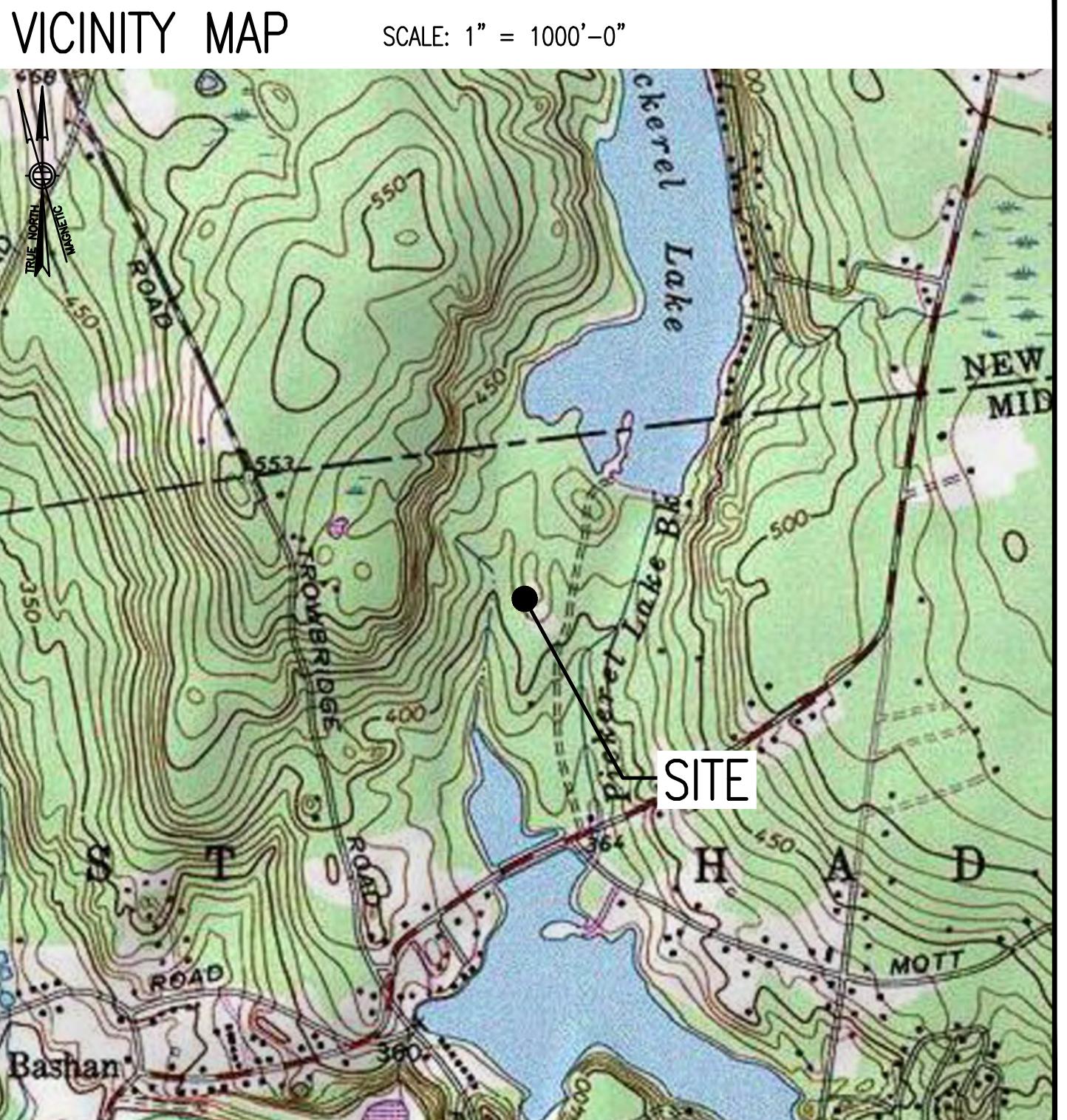
GENERAL NOTES

- THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.
- THE ARCHITECT/ENGINEER 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.
- THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE OWNPOINT 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.
- 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.
- 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.
- 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.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S/VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
- THE CONTRACTOR SHALL 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.
- 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.
- 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.
- 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.
- THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC. DURING CONSTRUCTION. UPON COMPLETION OF WORK, THE CONTRACTOR

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



VICINITY MAP



DIRECTIONS

MERGE ONTO I-495 NORTH TOWARD MANSFIELD/MARLBORO. TAKE EXIT 33B FOR I-95 SOUTH TOWARD PROVIDENCE RI. TAKE EXIT 6 FOR I-295 SOUTH TOWARD WOONSOCKET/WARWICK. CONTINUE ONTO I-295 SOUTH. USE RIGHT LANE FOR EXIT 9C-A FOR US-6 WEST TOWARD HARTFORD CT. KEEP RIGHT AT FORK & FOLLOW SIGNS FOR JOHNSTON/SCITUATE/FOSTER. MERGE ONTO US-6 WEST. CONTINUE STRAIGHT TO STAY ON US-6 WEST. TAKE SLIGHT LEFT ONTO CONNECTICUT TURNPIKE/GOVERNOR JOHN DAVIS LODGE TURNPIKE & FOLLOW SIGNS FOR I-395 SOUTH/NORWICH. TAKE EXIT ON LEFT FOR I-395 SOUTH. TAKE EXIT 14 TOWARD CT-2 WEST/CT-32 NORTH/HARTFORD/COLCHESTER. TURN RIGHT ONTO WEST TOWN STREET. CONTINUE ONTO FITCHVILLE ROAD/FRANKLIN TURNPIKE/NORWICH-COLCHESTER TURNPIKE. TURN LEFT TO MERGE ONTO CT-2 WEST TOWARD HARTFORD. TAKE EXIT 18 FOR CT-16 TOWARD COLCHESTER/MIDDLETOWN. TURN LEFT ONTO CT-16 WEST/MIDDLETOWN ROAD. TURN LEFT ONTO CT-149 SOUTH. TURN RIGHT ONTO NICHOLS ROAD. SITE IS LOCATED ON THE LEFT HAND SIDE.



SHEET INDEX

SHEET NO.	DESCRIPTION	REV. NO.
T-1	TITLE SHEET	0
GN-1	GENERAL NOTES	0
A-1	COMPOUND & EQUIPMENT PLANS	0
A-2	GENERATOR DETAILS	0
A-3	GENERATOR SPECIFICATIONS 1	0
A-4	GENERATOR SPECIFICATIONS 2	0
E-1	ELECTRIC & GROUNDING DETAILS	0

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.

SCOPE OF WORK

REMOVE:	INSTALL:
• 1 GENERATOR	• 1 GENERATOR
• 1 AUTOMATIC TRANSFER SWITCH	• 1 AUTOMATIC TRANSFER SWITCH
• 2 20A-1P BREAKERS	• 2 20A-1P BREAKERS

SITE NOTES

- 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.
- 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.
- 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
NORTHEAST LLC

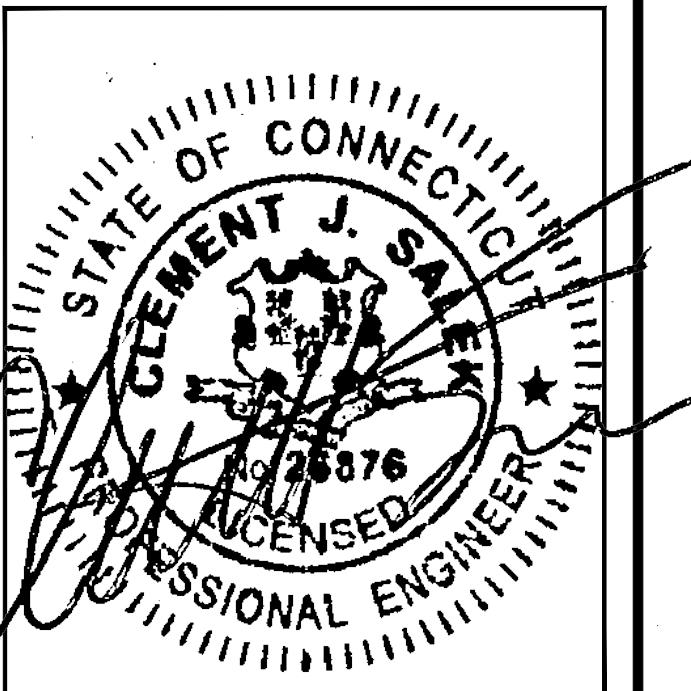
15 COMMERCE WAY, SUITE B
NORTON, MA 02766
(508) 286-2700



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

C CHAPPELL
ENGINEERING
ASSOCIATES, LLC
Civil Structural-Land Surveying

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



PROJECT SUMMARY

SITE NUMBER: CTHA603B

SITE NAME: CTHA603B

SBA SITE NUMBER: CT22076-A

SBA SITE NAME: EAST HADDAM (TROWBRIDGE)

SITE ADDRESS: 39 NICHOLS ROAD

EAST HADDAM, CT 06469

PROPERTY OWNER: TOWN OF EAST HADDAM
TRANSFER STATION-KENNEL
P.O. BOX 385
MOODUS, CT 06469

TOWER OWNER: SBA TOWERS IX, LLC
8501 CONGRESS AVENUE
BOCA RATON, FL 33487
PHONE: 561-226-9523

COUNTY: MIDDLESEX

ZONING DISTRICT: INDUSTRIAL/COMMERCIAL

STRUCTURE TYPE: MONOPOLE

STRUCTURE HEIGHT: 177±

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: 41.52100° N41°31'15.60" LONGITUDE: -72.42320° W72°25'23.52"

SITE NUMBER: CTHA603B

SITE ADDRESS: 39 NICHOLS ROAD
EAST HADDAM, CT 06469

SHEET TITLE: TITLE SHEET

TITLE SHEET

SHEET NUMBER: T-1

T-1

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).

T-MOBILE
NORTHEAST LLC

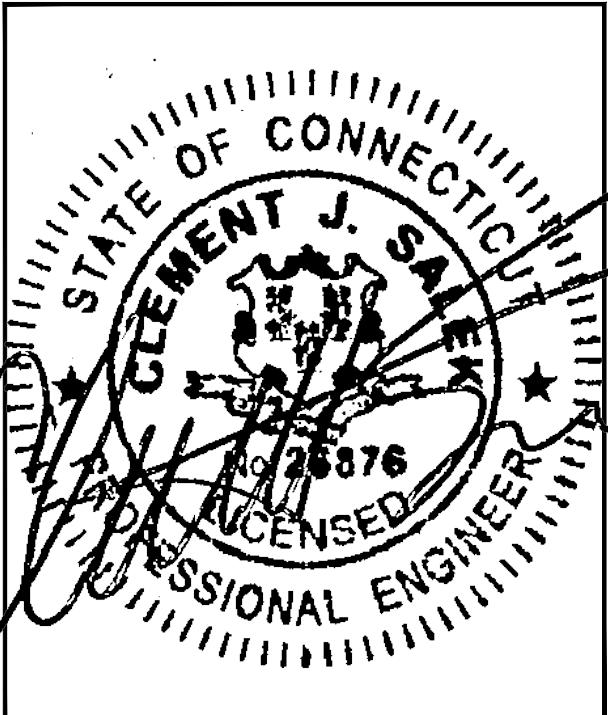
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201 BOSTON POST ROAD WEST, SUITE 101
MARLBOROUGH, MA 01752
(508) 481-7400
www.chappelleengineering.com



CHECKED BY: JMT

APPROVED BY: JMT

SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
0	10/15/21	ISSUED FOR CONSTRUCTION	CMC

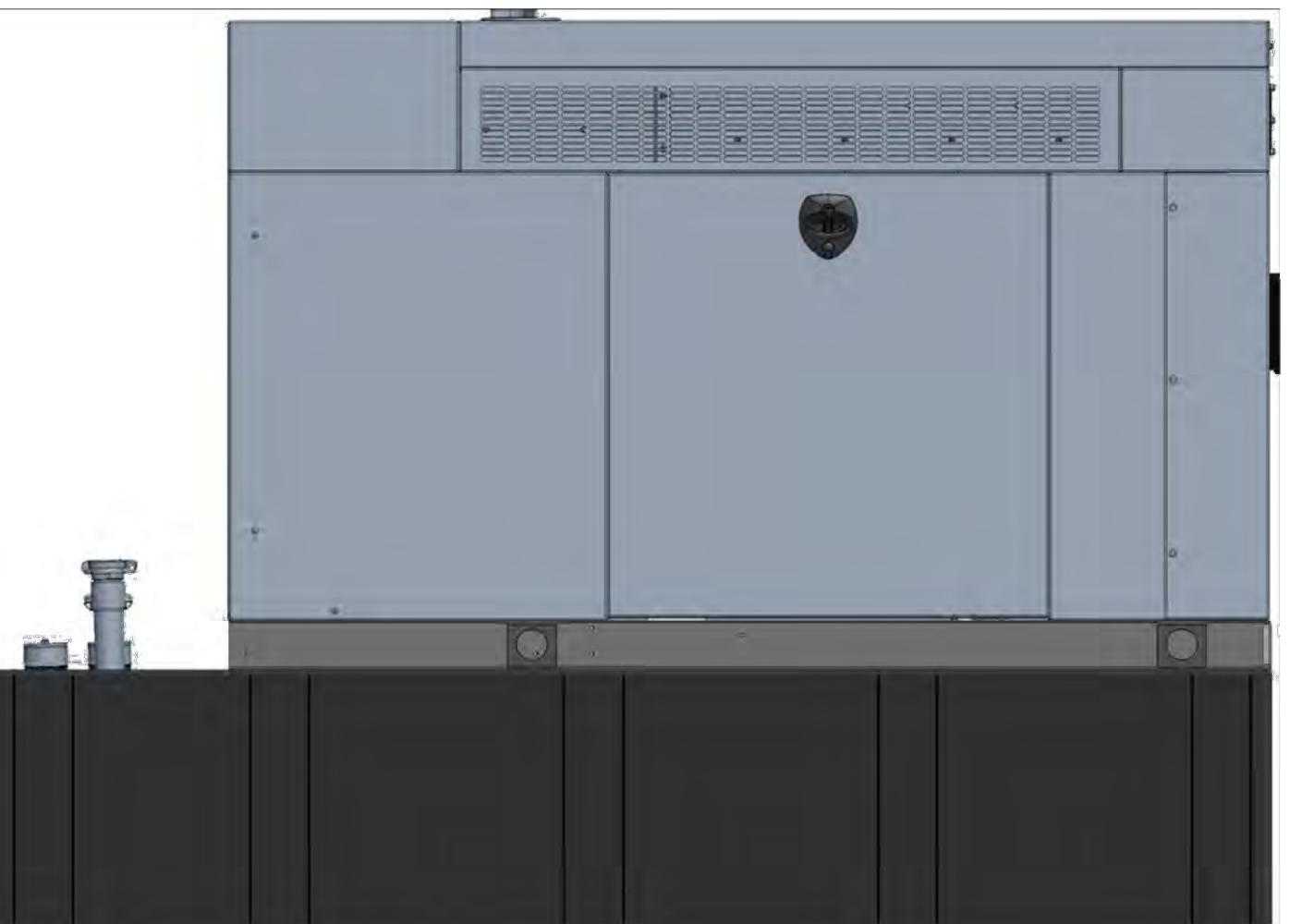
SITE NUMBER:
CTHA603B

SITE ADDRESS:
39 NICHOLS ROAD
EAST HADDAM, CT 06469

SHEET TITLE
GENERATOR DETAILS

SHEET NUMBER
A-2

NOTE:
GENERATOR DIESEL TANK TO
BE FILLED BY CONTRACTOR

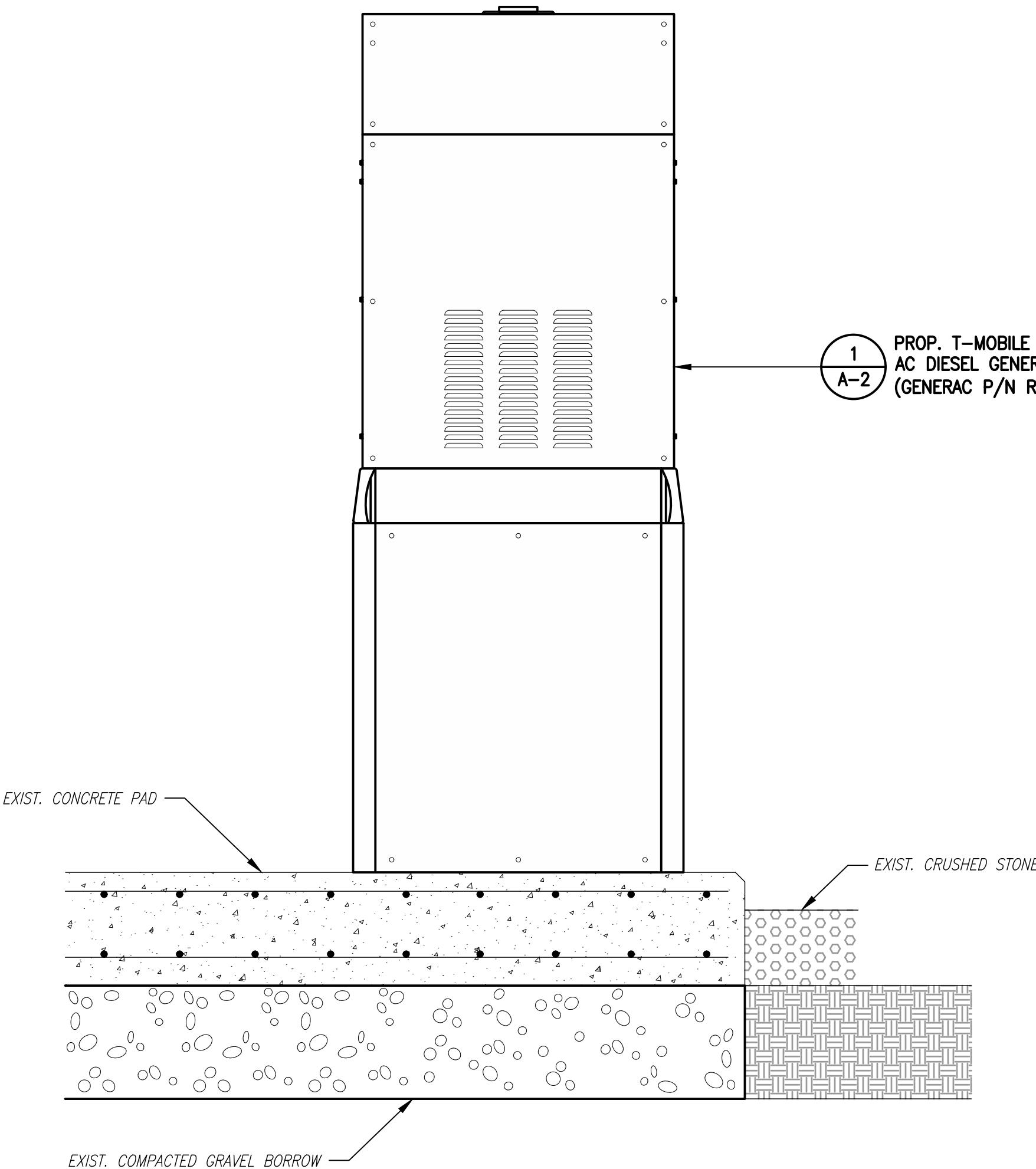


GENERAC RD025 25kW AC DIESEL GENERATOR

DIMENSIONS: 103.4" L x 35.0" W x 91.7" H
WEIGHT: 2,946 lbs
QUANTITY: TOTAL OF 1

GENERATOR DETAIL

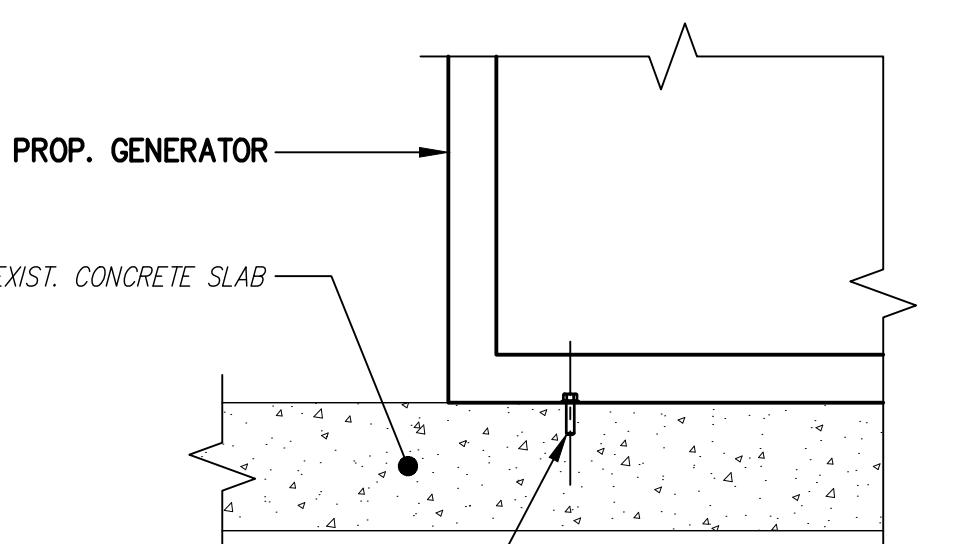
1
A-2



GENERATOR PAD DETAIL

SCALE: NTS

2
A-2



PROP. $\frac{1}{2}$ " HILTI KWIK BOLT TZ STAINLESS
STEEL ANCHOR BOLT WITH 2" MIN.
EMBEDMENT IN CONCRETE 1CC-ESR-1917,
LARR 25701, EACH CORNER PER
MANUFACTURER'S SPECIFICATIONS (TYP.)
(SPECIAL INSPECTION REQUIRED)

NOTE:
CONTRACTOR TO VERIFY 3"
MIN. FROM EDGE OF CONCRETE
TO NEW MOUNTING BOLT.

GENERATOR MOUNTING DETAIL

SCALE: N.T.S.

3
A-2

T-MOBILE
NORTHEAST LLC

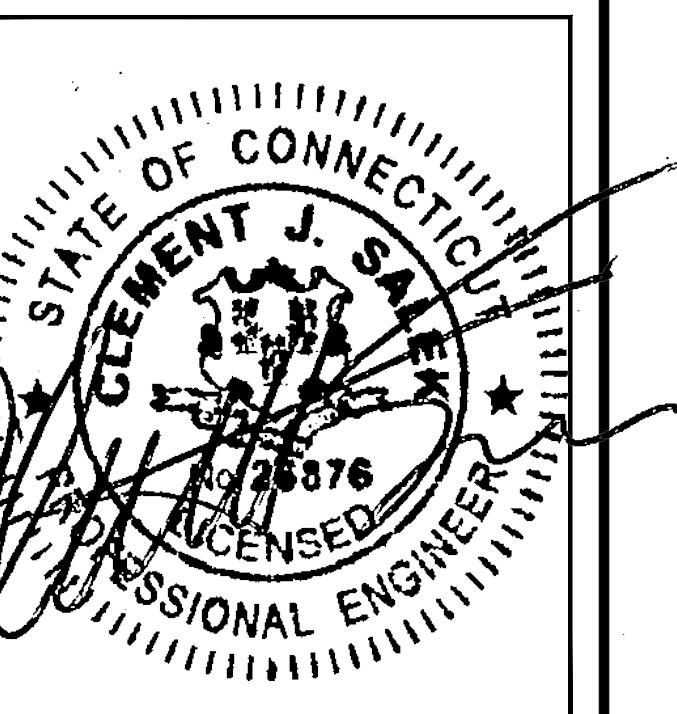
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CHECKED BY: JMT

APPROVED BY: JMT

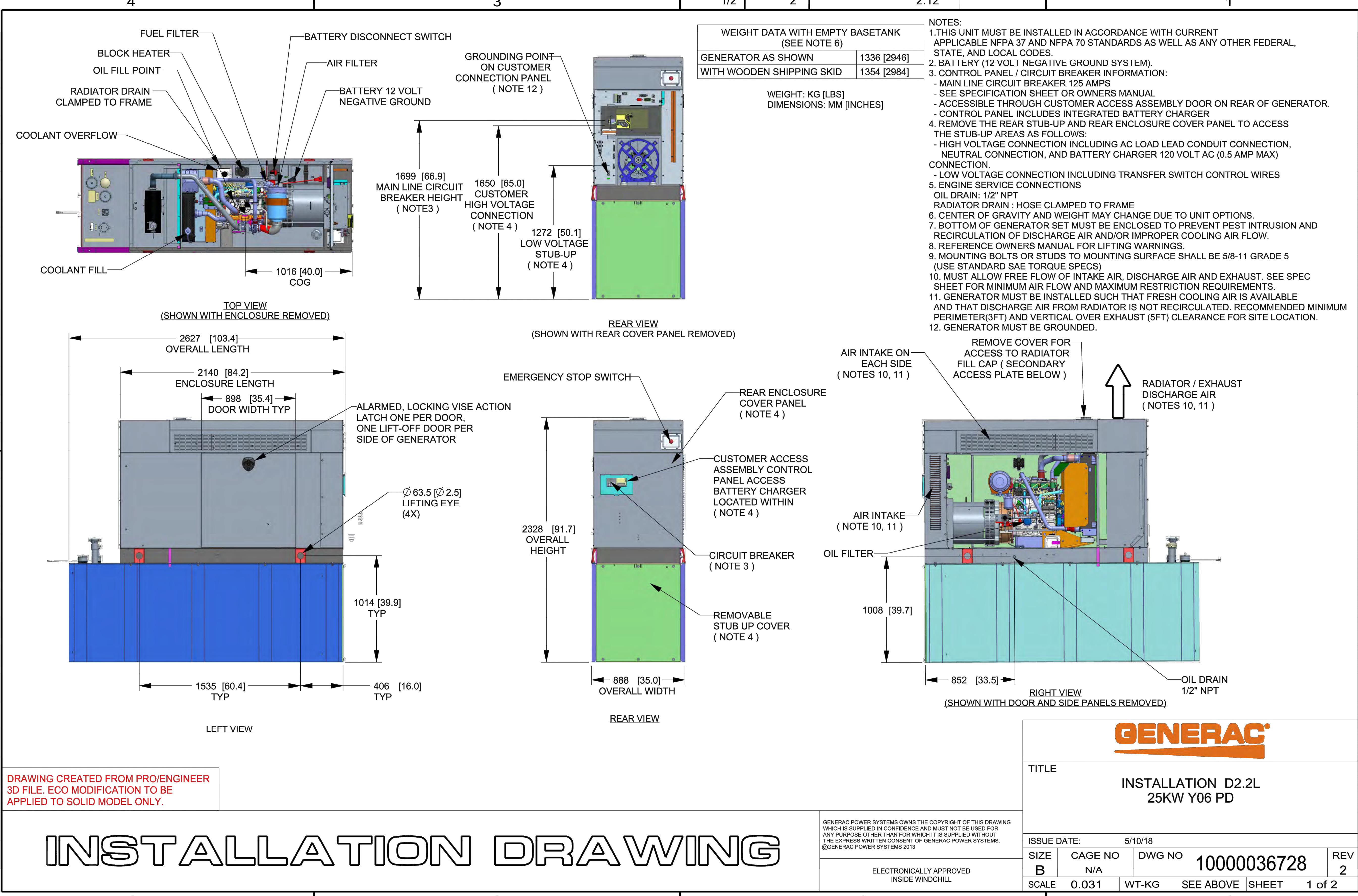
SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
0	10/15/21	ISSUED FOR CONSTRUCTION	CMC

SITE NUMBER:
CTHA603B

SITE ADDRESS:
39 NICHOLS ROAD
EAST HADDAM, CT 06469

SHEET TITLE			
GENERATOR SPECIFICATIONS 1			

SHEET NUMBER			
A-3			



T-MOBILE
NORTHEAST LLC

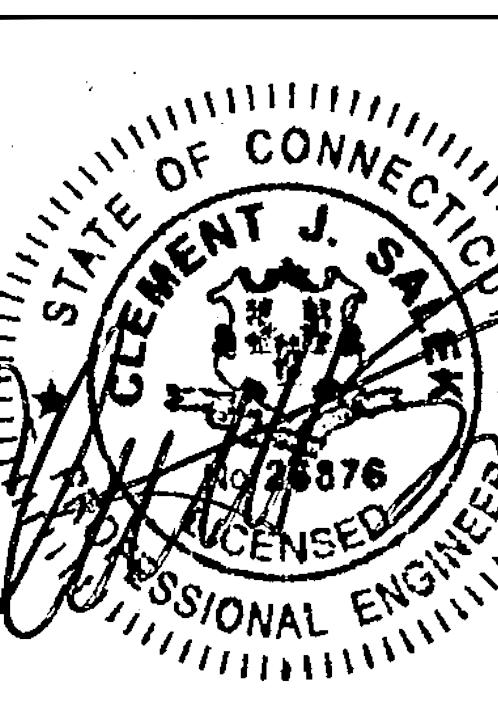
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CHEKED BY: JMT

APPROVED BY: JMT

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
0	10/15/21	ISSUED FOR CONSTRUCTION	CMC

SITE NUMBER:
CTHA603B

SITE ADDRESS:
39 NICHOLS ROAD
EAST HADDAM, CT 06469

SHEET TITLE
GENERATOR SPECIFICATIONS 2

SHEET NUMBER
A-4

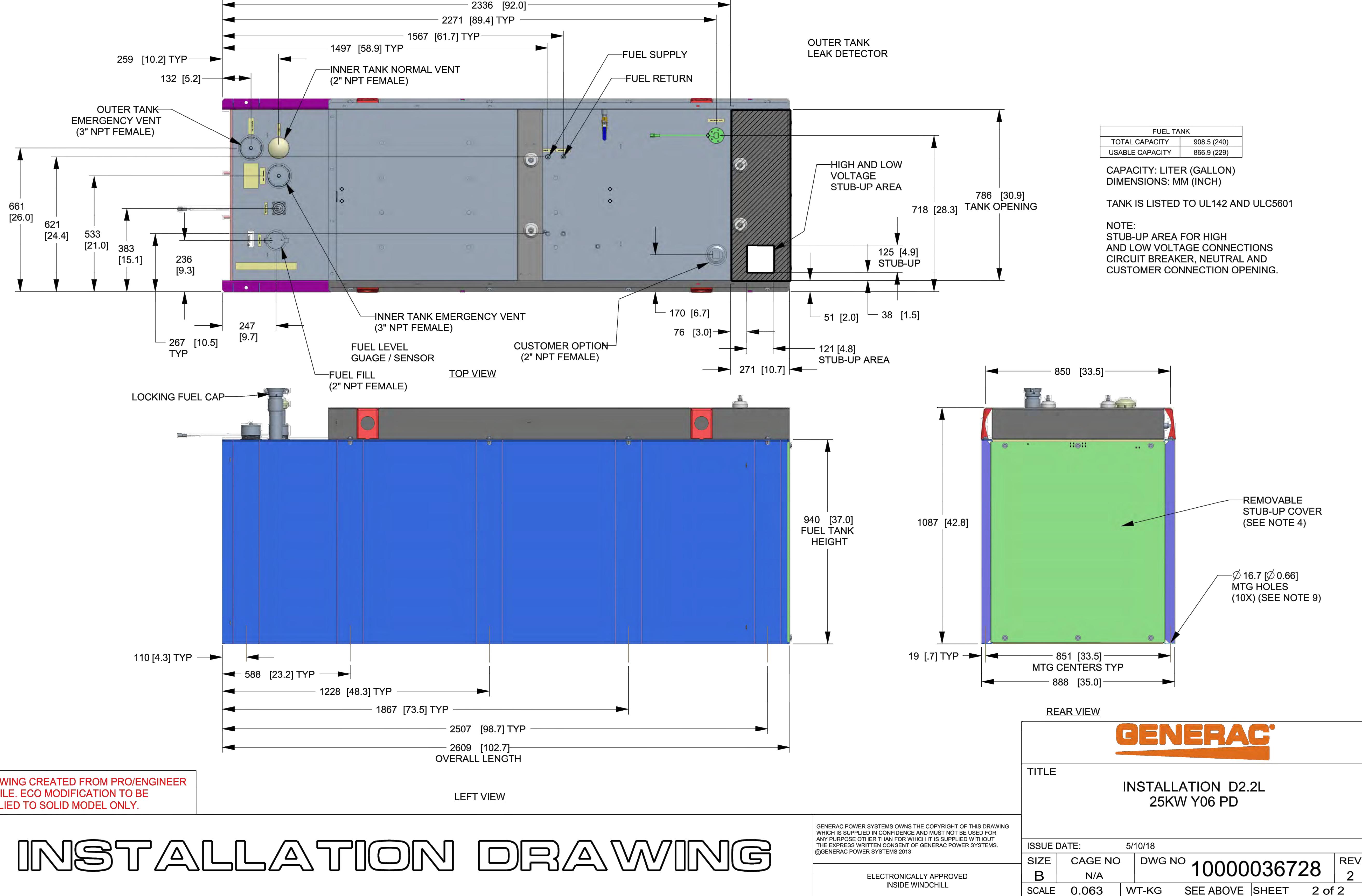
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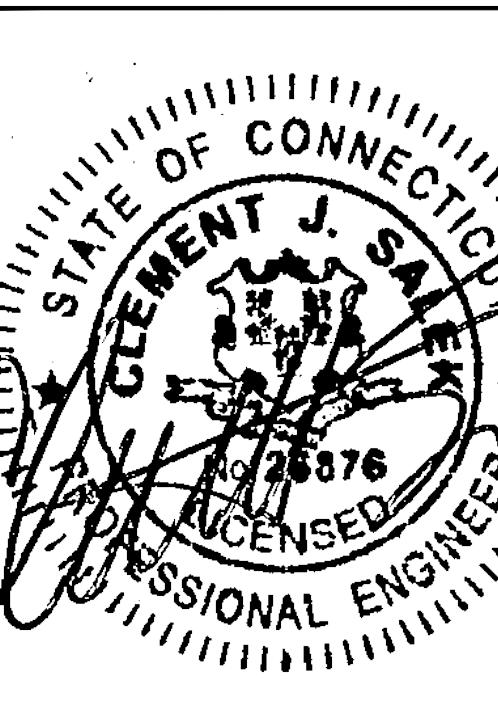
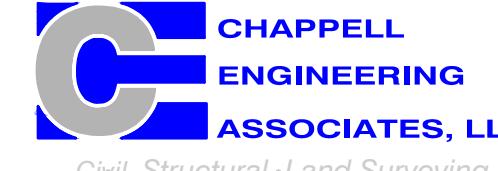
4

3

SH 2/2 REV 2 WINDCHILL VERSION 2.12

1





CHECKED BY: JMT

APPROVED BY: JMT

REV.	DATE	DESCRIPTION	BY
0	10/15/21	ISSUED FOR CONSTRUCTION	CMC

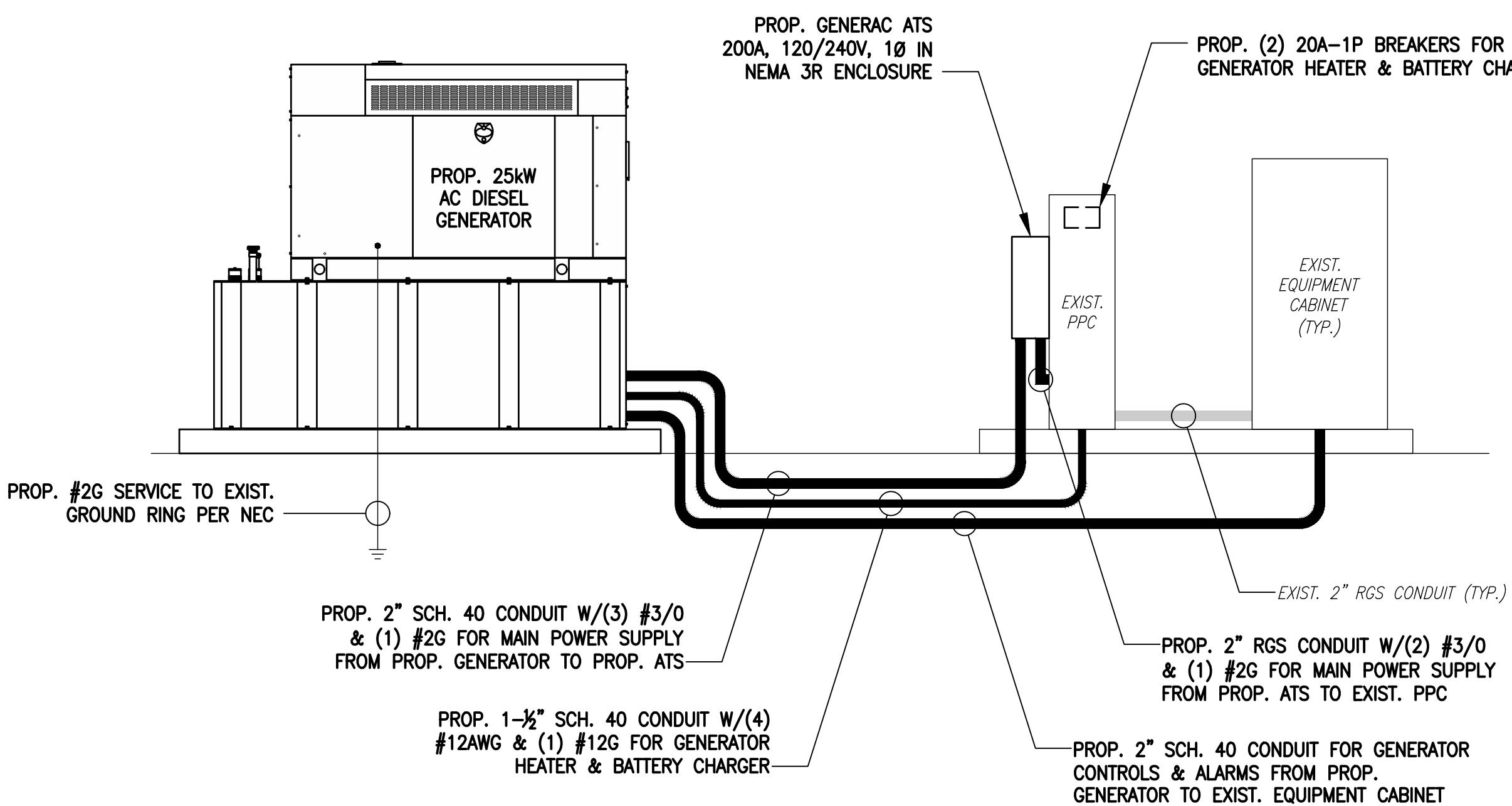
SITE NUMBER:
CTHA603B

SITE ADDRESS:
39 NICHOLS ROAD
EAST HADDAM, CT 06469

SHEET TITLE
ELECTRIC & GROUNDING DETAILS

SHEET NUMBER
E-1

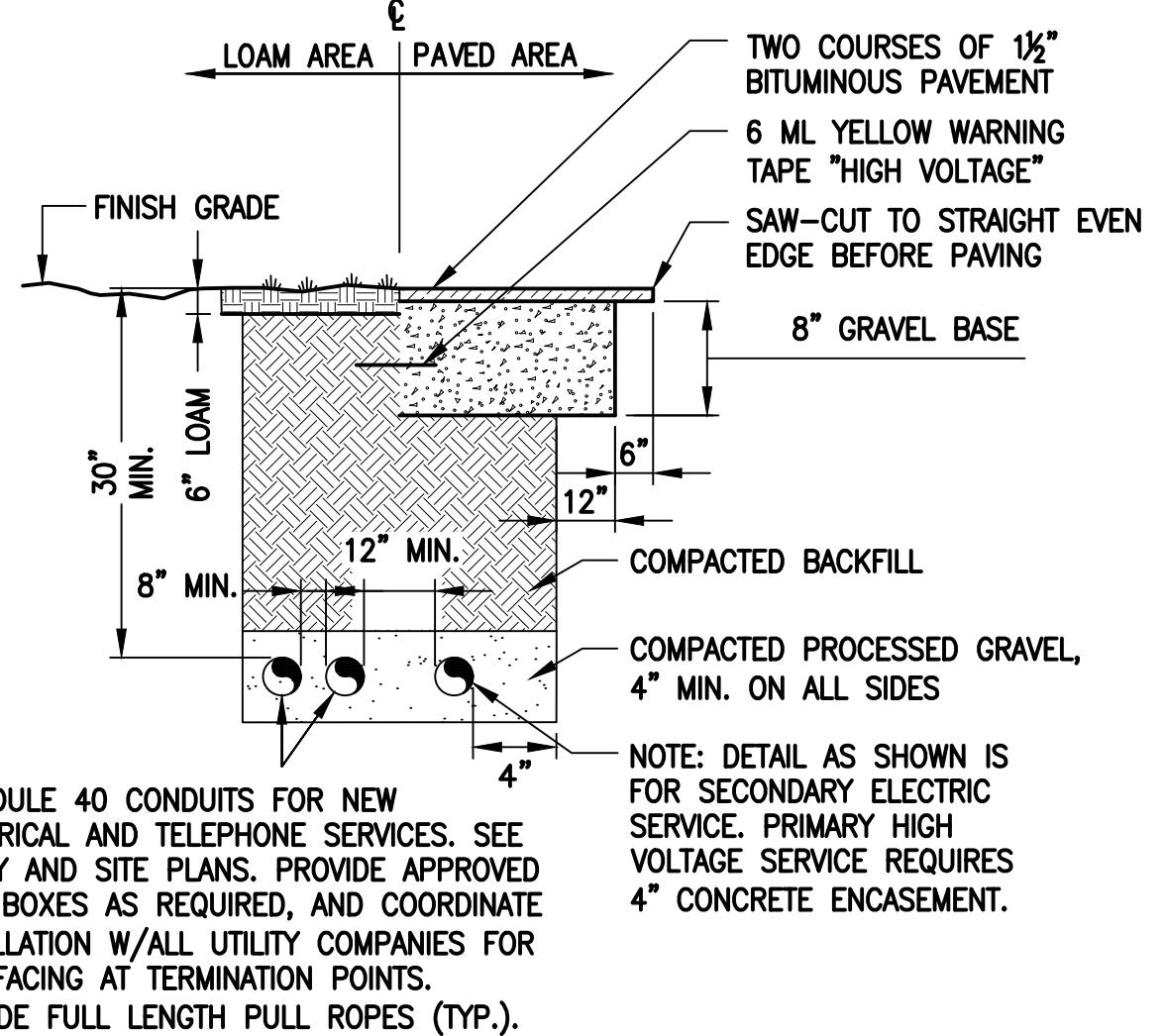
NOTE:
CUT BACK (E) MAIN POWER CONDUIT, AS
REQUIRED, & RECONNECT TO (P) ATS.



ONE-LINE POWER DIAGRAM

SCALE: NOT TO SCALE

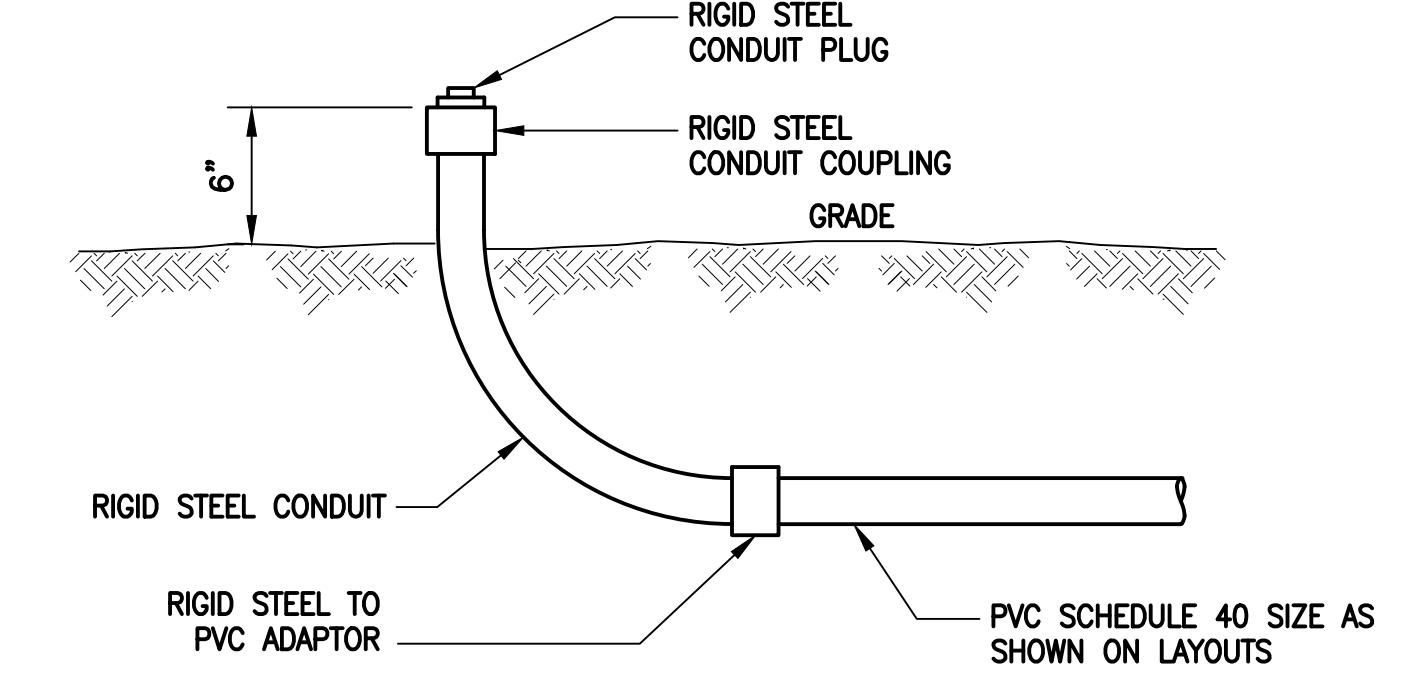
1 E-1



BURIED CONDUIT DETAIL

SCALE: NOT TO SCALE

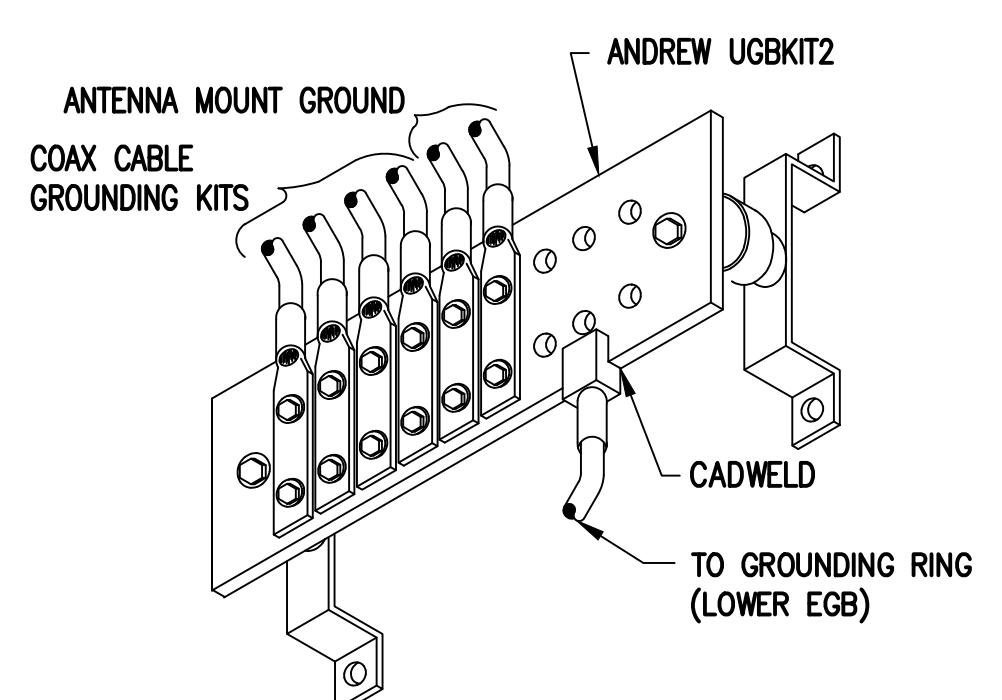
2 E-1



Typical Conduit Stub-up Detail

SCALE: NONE

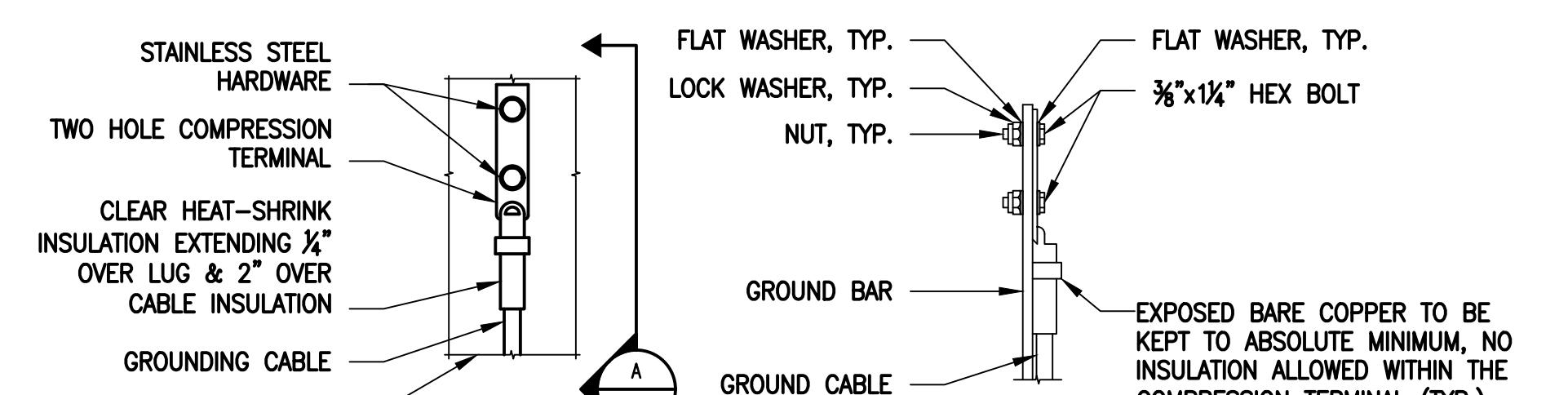
3 E-1



GROUND BAR (EGB)

SCALE: NOT TO SCALE

4 E-1



TYPICAL GROUND BAR CONNECTIONS DETAIL

SCALE: NOT TO SCALE

5 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 UL 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, THWN, OR THHN INSULATION.
- RUN ELECTRICAL CONDUIT OR CABLE BETWEEN ELECTRICAL UTILITY DEMARCTION 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 DEMARCTION 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.

EXHIBIT 7

Generac RD025 25 KW
25kw Diesel Specifications

Standby Power Rating

25 kW, 31.25 kVA, 60 Hz



*Built in the USA using domestic and foreign parts



Image used for illustration purposes only

Codes and Standards

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



UL2200, UL508, UL489, UL142



CSA 22.2



BS5514 and DIN 6271



SAE J1349



NFPA 37, 70, 99



ISO 3046, 8528, 9001



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



American National Standards Institute

ANSI/IEEE C62.41

Powering Ahead

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

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

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

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

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

RD025 | 2.2L | 25 kW
INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

GENERAC | INDUSTRIAL
POWER

Standard Features

ENGINE SYSTEM

- Cold Weather Kit
- Oil Drain Extension
- Heavy Duty Air Cleaner
- Fan Guard
- Stainless Steel Flexible Exhaust Connection
- Factory Filled Oil & Coolant
- Critical Exhaust Silencer

GENERATOR SET

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

Electrical System

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

ALTERNATOR SYSTEM

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

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

- Fuel Lockoff Solenoid
- Primary Fuel Filter
- Stainless Steel Fuel Lines

TANKS

- 24 Hour Run Time Tank
- UL142 Listed Tank

CONTROL SYSTEM



Evolution™ Controller

- Two-Line Plain Text LCD Display
- Programmable Start Delay Between 10-30 seconds
- 10 second Engine Start Sequence
- 5 second Engine Warm Up
- 1 minute Engine Cool-Down
- Starter Lock-Out
- Smart Battery Charger
- Automatic Voltage Regulation with Over and Under Protection
- Automatic Low Oil Pressure Shutdown
- Overspeed Shutdown
- High Temperature Shutdown
- Overcrank Protection
- Safety Fused
- Failure to Transfer Protection
- Low Battery Protection
- 50 Even Run Log
- Future Set Capable Exerciser
- Incorrect Wiring Protection
- Internal Fault Protection
- Common External Fault Capability
- Governor Failure Protection

Optional Shipped Loose and Field Install Kits

ENGINE SYSTEM

- Base Plug Kit

GENERATOR SET

- Paint Kit
- Scheduled Maintenance Kit

CONTROL SYSTEM

- Mobile Link™ and Adapter Kit

TANKS

- Spill Box
- 90% Fuel Alarm
- Tank Risers
- Spill Box Drainback Kit
- Vent Extension Support Kit
- 5 Day Run Time Tank

RD025 | 2.2L | 25 kW
INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

GENERAC INDUSTRIAL POWER

APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General

Make	Perkins
EPA Emission Compliance	Tier 4 Interim
Cylinder #	4
Type	In-Line
Displacement - in ³ (L)	2.22 (135)
Bore - in (mm)	3.3 (84.0)
Stroke - in (mm)	3.9 (100.0)
Compression Ratio	23.3:1
Intake Air Method	Turbocharged/Aftercooled
Piston Type	Aluminum
Crankshaft Type	Forged Steel
Engine Block Type	Cast Iron

Engine Governing

Governor	Electronic
Frequency Regulation (Steady State)	±0.25%

Lubrication System

Oil Pump Type	Gear
Oil Filter Type	Full Flow Cartridge
Crankcase Capacity with Filters- qt (L)	11.2 (10.6)

Cooling System

Cooling System Type	Closed Recovery
Fan Type	Pusher
Fan Speed- rpm	1,980
Fan Diameter - in (mm)	18.0 (457.2)
Fuel System	
Fuel Type	Ultra Low Sulfur Diesel Fuel
Fuel Specification	ASTM
Fuel Pump Type	Mechanical Engine Driven Gear
Injector Type	Mechanical
Fuel Supply Lin (mm/in)	7.94/0.31 (ID)
Fuel Return Line (mm/in)	4.76/.19 (ID)
Fuel Filtering (microns)	25

Engine Electrical System

System Voltage	12 VDC
Battery Charger Alternator	Standard
Battery Size	See Battery Index 0161970SBY
Battery Voltage	12 VDC
Ground Polarity	Negative

ALTERNATOR SPECIFICATIONS

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

Standard Excitation	Direct
Bearings	Single Sealed
Coupling	Flexible Disc
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Full Digital
Number of Sensed Phases	2
Regulation Accuracy (Steady State)	±1%

RD025 | 2.2L | 25 kW
INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

GENERAC® | INDUSTRIAL POWER

OPERATING DATA

POWER RATINGS

	Standby
Single-Phase 120/480 VAC @0.1pf	25 kW
Three-Phase 120/208 VAC @0.8pf	25 kW
Three-Phase 120/240 VAC @0.8pf	25 kW
Three-Phase 277/480 VAC @0.8pf	25 kW
	Amps: 104
	Amps: 87
	Amps: 75
	Amps: 37

MOTOR STARTING CAPABILITIES (sKVA)

sKVA vs. Voltage Dip at 30%

120/240 V, Single-Phase at 0.4pf	168
120/208 V, Three-Phase at 0.4pf	144
120/240 V, Three-Phase at 0.4pf	125
120/240 V, Three-Phase at 0.4pf	64

FUEL CONSUMPTION RATES*

Percent Load	Diesel gal/hr (L/hr)
25%	0.97 (3.67)
50%	1.37 (5.19)
75%	1.97 (7.46)
100%	2.77 (10.49)

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

COOLING

	Standby
Air Flow (Radiator and Alternator)	ft ³ /min (m ³ /min)
Coolant System Capacity	gal (L)
Heat Rejection to Coolant	BTU/hr (MJ/hr)
Max. Operating Ambient Temperature	°F (°C)
Maximum Operating Ambient Temperature (Before Derate)	See Bulletin No. 0199270SSD
Maximum Radiator Backpressure	in H ₂ O (kPa)
	0.50 (0.12)

COMBUSTION AIR REQUIREMENTS

	Standby
Flow at Rated Power ft ³ /min (m ³ /min)	88 (2.5)

ENGINE

EXHAUST

	Standby
Rated Engine Speed rpm	1,800
Exhaust Flow (Rated Output)	ft ³ /min (m ³ /min)
Exhaust Temp (Rated Output - Post Silencer)	°F (°C)
	296.6 (8.4)
	930 (499)

Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions.
Please consult a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528 and DIN6271 standards.
Standby - See Bulletin 018750SSB

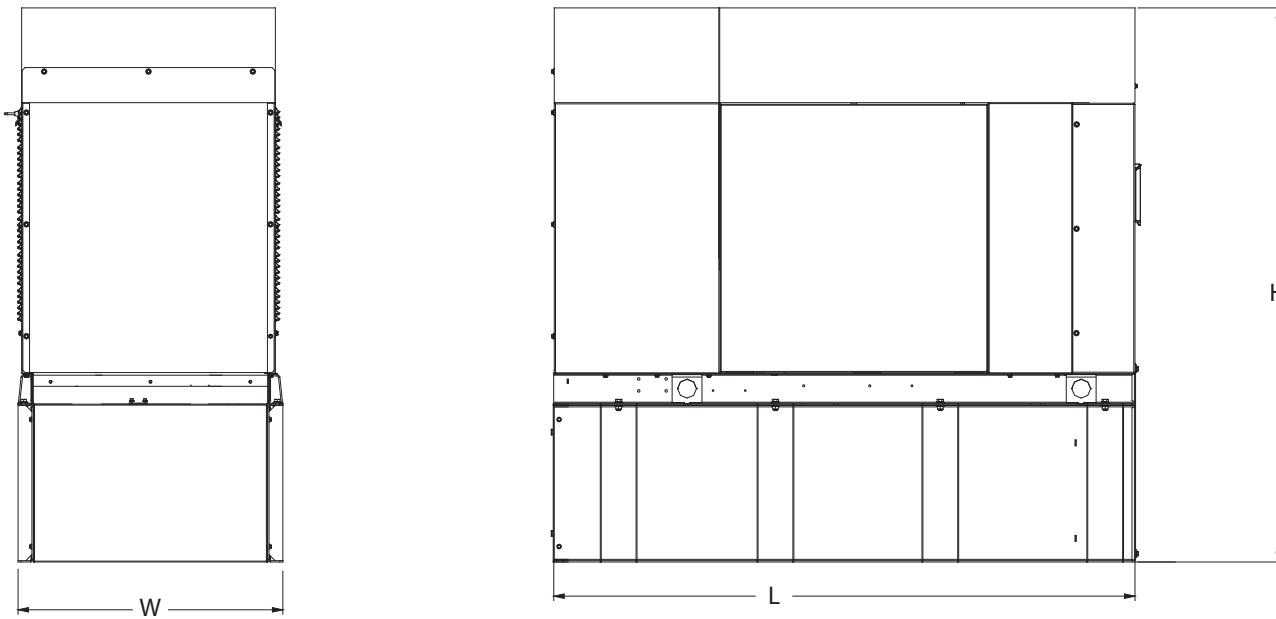
RD025 | 2.2L | 25kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

GENERAC® | INDUSTRIAL POWER

DIMENSIONS AND WEIGHTS*



Weights and Dimensions

Unit Weight - lbs	Unit Weight with Skid - lbs	Dimensions (L x W x H) in
2,811	2,849	84.2 x 35.0 x 91.7

25kW Fuel Consumption

with fuel tank
103.4" 35" x 91.7"

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 98

Run Hours 75% Load 125

Run Hours 50% Load 161

Sound Emission Data

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

* All measurements are approximate and for estimation purposes only.
Drawing is for illustration purposes only, not to scale.

YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER

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

EXHIBIT 8

Map showing nearest wetlands

 National Wetlands Inventory
surface waters and wetlands

BASEMAPS > + - Measure Feet (US) **275.1 Feet (US)**

MAP LAYERS >

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

Legend



1:4,514
41.520 | -72.430

U.S. Fish and Wildlife Service, National Standards and Support Team, wetlands_team@fws.gov | Esri, HER...

POWERED BY 