



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

October 15, 2021

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

RE: Notice of Exempt Modification
297 North St., Plymouth, CT 06782
Latitude: 41.693297
Longitude: -73.053692
T-Mobile Site #: CT11366A_Hardening

Dear Ms. Bachman:

T-Mobile currently maintains six (6) antennas at the 175-foot level of the existing 195-foot Monopole Tower at **297 North St., Plymouth, CT**, CT. The tower is owned by SBA Towers, LLC. The property is owned by Raymond & Brenda Lagosz. T-Mobile now intends to add one (1) Generac RD025 Diesel generator to an existing 35' x 35' concrete pad, within a 65' 4" x 58' 10" fenced compound lease area. The proposed generator and concrete tower foundation and 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 RD0 25kw Diesel generator
- (1) 2" RGS conduit for Ethernet cable & Alarms from exist. Cabinet to prop. generator
- (1) 2" RGS conduit for emergency power from proposed ATS to existing PPC
- (1) 2" RGS conduit for emergency power from proposed generator to proposed ATS
- (1) 1-1/2" TGS conduit for generator heater & battery charger from exist. PPC to Prop. generator
- Generac 200A, 120/240v automatic transfer switch mounted to proposed H-Frame



Remaining:

- Exist. Emerson Nextend Compact 2416 fiber cabinet
- Existing RBS6201 ODE equip. cabinet
- Exist. Sprint Ice shield Post
- Existing T-Mobile Ice bridge
- Existing T-Mobile cables along exist. Ice bridge
- Existing 35' x 35' concrete tower foundation
- Exist. PTS 8003 battery cabinet
- Existing radios mounted to existing H-Frame
- Existing 200A power panel

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 RD025 25kw Diesel Generator. T-Mobile is currently in the middle of a National Hardening Project.

The proposed diesel generator measures 84.2" x 35" x 91.7" (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 RD025 25kw Diesel Generator carries up to 98 hours of run time with 100% load, 125 hours of run time with a 75% load and 161 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 RD025 25kw 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 RD025kw meets/exceeds the allowable noise emissions levels for the Town of Plymouth, Litchfield County, 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
Class C emitter to	70dBA	66dBA	61dBA	51dBA
Class B emitter to	62dBA	62dBA	55dBA	45dBA
Class A emitter to	62dBA	55dBA	55dBA	45dBA

The proposed modification will remain within the existing 65' 4" x 58' 10" fenced compound. The new generator and tank will be surrounded by the existing security fence and 12' wide 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 Plymouth's, Mayor, David V. Merchant and Planning & Zone Chairman, Carl Johnson, 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

Attachments

cc: Mayor David V. Merchant / with attachments
Town Hall, 80 Main St., Terryville, CT 06786
Carl Johnson, Planning & Zone Chairman / with attachments
Town Hall, 80 Main St., Terryville, CT 06786
Raymond & Brenda Lagosz / with attachments
297 North St., Plymouth, CT 06782 (SBA Address on file)

Exhibit List



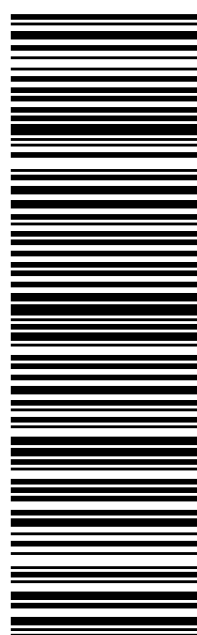
Exhibit 1	Check Copy	x
Exhibit 2	FedEx Labels	x
Exhibit 3	Property Card	x
Exhibit 4	Property Map	x
Exhibit 5	Zoning Documents	Plymouth P&Z Commission (9/8/99)
Exhibit 6	Construction Drawings	Chappell 10/7/21
Exhibit 7	Generator Specifications	x
Exhibit 8	Wetlands Map	x

EXHIBIT 1

Copy of Check for filing fee.

EXHIBIT 2

FedEx Labels

ORIGIN ID: BFA (508) 614-0389 RICK WOODS SBA COMMUNICATIONS CORPORATION 134 FLANDERS RD SUITE 125 WESTBOROUGH, MA 01581 UNITED STATES US		SHIP DATE: 15OCT21 ACTWGT: 2.00 LB CAD: 105843304/NET4400
TO MELANIE A. BACHMAN EXEC. DIR CONNECTICUT SITING COUNCIL TEN FRANKLIN SQUARE		
NEW BRITAIN CT 06051 (508) 251-0720 X 3807 REF: 1056-92009-6089 INV: DEPT:		
		
		
TRK# 2849 5730 2161 MON - 18 OCT 10:30A 0201 PRIORITY OVERNIGHT		
SEBDLA CT-US BDL 06051		
		

56DJ3/14BA/FE4A

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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 ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



TRACK ANOTHER SHIPMENT

284957302161

[ADD NICKNAME](#)

Delivered

**DELIVERED**

Signature release on file

[GET STATUS UPDATES](#)[OBTAIN PROOF OF DELIVERY](#)**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

Travel History

Shipment Facts

Travel History

TIME ZONE

Local Scan Time

**Monday, October 18, 2021**

8:41 AM

NEW BRITAIN, CT

Delivered

Package delivered to recipient address -
release authorized

7:13 AM

WINDSOR LOCKS, CT

On FedEx vehicle for delivery

6:09 AM

WINDSOR LOCKS, CT

At local FedEx facility

**Sunday, October 17,
2021**

8:53 PM

EAST GRANBY, CT

At destination sort facility


5:33 PM

MEMPHIS, TN



Departed FedEx hub

Saturday, October 16, 2021

11:28 AM	MEMPHIS, TN	Arrived at FedEx hub
Friday, October 15, 2021		
8:25 PM	FRAMINGHAM, MA	Left FedEx origin facility
5:16 PM	FRAMINGHAM, MA	Picked up
1:24 PM		Shipment information sent to FedEx

Expand History 

Shipment Facts

TRACKING NUMBER 284957302161	SERVICE FedEx Priority Overnight	WEIGHT 2 lbs / 0.91 kgs
DELIVERY ATTEMPTS 1	TOTAL PIECES 1	TOTAL SHIPMENT WEIGHT 2 lbs / 0.91 kgs
TERMS Shipper	SHIPPER REFERENCE 10-56-92009-6089	PACKAGING FedEx Pak
SPECIAL HANDLING SECTION Deliver Weekday	SHIP DATE 10/15/21 	STANDARD TRANSIT 10/18/21 before 10:30 am 
ACTUAL DELIVERY 10/18/21 at 8:41 am		

All (30)	Inbound (0)	Outbound (30)	Watch list (0)
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ORIGIN ID: BFA (508) 614-0389 RICK WOODS SBA COMMUNICATIONS CORPORATION 134 FLANDERS RD SUITE 125 WESTBOROUGH, MA 01581 UNITED STATES US		SHIP DATE: 15OCT21 ACTWGT: 1.00 LB CAD: 105843304/NET4400
TO MAYOR DAVID V. MERCHANT TOWN HALL 80 MAIN ST TERRYVILLE CT 06786 (508) 251-0720 X 3807 INV: REF: 105692009-6089 PO: DEPT:		BILL SENDER
  		
TRK# 0201 2849 5749 2195	MON - 18 OCT 10:30A PRIORITY OVERNIGHT	
SE HFDA CT-US BDL 06786		

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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 ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



TRACK ANOTHER SHIPMENT

284957492195

[ADD NICKNAME](#)

Delivered

**DELIVERED**

Signed for by: S.URBANSKI

[GET STATUS UPDATES](#)[OBTAIN PROOF OF DELIVERY](#)**FROM**

SBA COMMUNICATIONS CORPORATION

Rick Woods

134 Flanders Rd

Suite 125

WESTBOROUGH, MA US 01581

508-614-0389

TO

Mayor David V. Merchant

Town Hall

80 Main St

TERRYVILLE, CT US 06786

508-251-0720

Travel History

Shipment Facts

Travel History

TIME ZONE

Local Scan Time



Monday, October 18, 2021

10:06 AM	TERRYVILLE, CT	Delivered
7:49 AM	WATERTOWN, CT	On FedEx vehicle for delivery
7:07 AM	WATERTOWN, CT	At local FedEx facility

Sunday, October 17, 2021

8:53 PM	EAST GRANBY, CT	At destination sort facility
5:33 PM	MEMPHIS, TN	Departed FedEx hub

Saturday, October 16, 2021

11:28 AM

MEMPHIS, TN

Arrived at FedEx hub

Friday, October 15,
2021

8:25 PM

FRAMINGHAM, MA

Left FedEx origin facility

5:16 PM

FRAMINGHAM, MA



Picked up

1:26 PM

Shipment information sent to FedEx

Expand History 

Shipment Facts

TRACKING NUMBER 284957492195	SERVICE FedEx Priority Overnight	WEIGHT 1 lbs / 0.45 kgs
DELIVERY ATTEMPTS 1	DELIVERED TO Receptionist/Front Desk	TOTAL PIECES 1
TOTAL SHIPMENT WEIGHT 1 lbs / 0.45 kgs	TERMS Shipper	SHIPPER REFERENCE 10-56-92009-6089
PACKAGING FedEx Envelope	SPECIAL HANDLING SECTION Deliver Weekday	SHIP DATE 10/15/21 
STANDARD TRANSIT 10/18/21 before 10:30 am 	ACTUAL DELIVERY 10/18/21 at 10:06 am	

All (30)

Inbound (0)

Outbound (30)

Watch list (0)

ORIGIN ID: BFA (508) 614-0389 RICK WOODS SBA COMMUNICATIONS CORPORATION 134 FLANDERS RD SUITE 125 WESTBOROUGH, MA 01581 UNITED STATES US		SHIP DATE: 15OCT21 ACTWGT: 1.00 LB CAD: 105843304/NET4400
TO CARL JOHNSON TOWN HALL PLANNING & ZONE CHAIRMAN 80 MAIN ST. TERRYVILLE CT 06786 (508) 251-0720 X 3807 INV: REF: 1056-92009-6089 PO: DEPT:		BILL SENDER

TRK# 2849 5757 1866
 0201
SE HFDA
 CT-US BDL
 06786

MON - 18 OCT 10:30A
 PRIORITY OVERNIGHT




56DJ3/14BA/FE4A

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TRACK ANOTHER SHIPMENT

284957571866

[ADD NICKNAME](#)

Delivered

**DELIVERED**

Signed for by: S.URBANSKI

[GET STATUS UPDATES](#)[OBTAIN PROOF OF DELIVERY](#)**FROM**

SBA COMMUNICATIONS CORPORATION

Rick Woods

134 Flanders Rd

Suite 125

WESTBOROUGH, MA US 01581

508-614-0389

TO

Carl Johnson

Town Hall

Planning & Zone Chairman

80 Main St.

TERRYVILLE, CT US 06786

508-251-0720

Travel History

Shipment Facts

Travel History

TIME ZONE

Local Scan Time



Monday, October 18, 2021

10:06 AM

TERRYVILLE, CT

Delivered

7:49 AM

WATERTOWN, CT

On FedEx vehicle for delivery

7:04 AM

WATERTOWN, CT

At local FedEx facility

Sunday, October 17,
2021

8:53 PM

EAST GRANBY, CT

At destination sort facility

5:33 PM

MEMPHIS, TN


Departed FedEx hub

Saturday, October 16, 2021



11:28 AM	MEMPHIS, TN	Arrived at FedEx hub
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Friday, October 15, 2021

8:25 PM	FRAMINGHAM, MA	Left FedEx origin facility
5:16 PM	FRAMINGHAM, MA	Picked up
1:27 PM		Shipment information sent to FedEx

Expand History 

Shipment Facts

TRACKING NUMBER 284957571866	SERVICE FedEx Priority Overnight	WEIGHT 1 lbs / 0.45 kgs
DELIVERY ATTEMPTS 1	DELIVERED TO Receptionist/Front Desk	TOTAL PIECES 1
TOTAL SHIPMENT WEIGHT 1 lbs / 0.45 kgs	TERMS Shipper	SHIPPER REFERENCE 10-56-92009-6089
PACKAGING FedEx Envelope	SPECIAL HANDLING SECTION Deliver Weekday	SHIP DATE 10/15/21 
STANDARD TRANSIT 10/18/21 before 10:30 am 	ACTUAL DELIVERY 10/18/21 at 10:06 am	

All (30)

Inbound (0)

Outbound (30)

Watch list (0)

ORIGIN ID: BFFA (508) 614-0389 RICK WOODS SBA COMMUNICATIONS CORPORATION 134 FLANDERS RD SUITE 125 WESTBOROUGH, MA 01581 UNITED STATES US		SHIP DATE: 15OCT21 ACTWGT: 1.00 LB CAD: 105843304/NET4400
TO RAYMOND & BRENDA LAGOSZ 297 NORTH ST PLYMOUTH CT 06782 (508) 251-0720 X 3807 INV: REF: 1056-92009-6089 PO: DEPT:		BILL SENDER
		
		
TRK# 0201 2849 5765 9916		
MON - 18 OCT 10:30A PRIORITY OVERNIGHT		
SE HFDA		
CT-US 06782 BDL		
		

56DJ3/14BA/FE4A

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1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
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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 ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



TRACK ANOTHER SHIPMENT

284957659916

[ADD NICKNAME](#)

Delivered

**DELIVERED**

Signature not required

[GET STATUS UPDATES](#)[OBTAIN PROOF OF DELIVERY](#)**FROM**

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

TO

Raymond & Brenda Lagosz
297 North St
PLYMOUTH, CT US 06782
508-251-0720

Travel History

Shipment Facts

Travel History

TIME ZONE

Local Scan Time

**Monday, October 18, 2021**


9:40 AM	PLYMOUTH, CT	Delivered Left at garage. Package delivered to recipient address - release authorized
7:55 AM	WATERTOWN, CT	On FedEx vehicle for delivery
7:04 AM	WATERTOWN, CT	At local FedEx facility

Sunday, October 17, 2021



8:53 PM	EAST GRANBY, CT	At destination sort facility
5:33 PM	MEMPHIS, TN	Departed FedEx hub

Saturday, October 16, 2021

11:28 AM	MEMPHIS, TN	Arrived at FedEx hub
Friday, October 15, 2021		
8:25 PM	FRAMINGHAM, MA	Left FedEx origin facility
5:16 PM	FRAMINGHAM, MA	Picked up
1:28 PM		Shipment information sent to FedEx

Expand History 

Shipment Facts

TRACKING NUMBER 284957659916	SERVICE FedEx Priority Overnight	WEIGHT 1 lbs / 0.45 kgs
DELIVERY ATTEMPTS 1	DELIVERED TO Residence	TOTAL PIECES 1
TOTAL SHIPMENT WEIGHT 1 lbs / 0.45 kgs	TERMS Shipper	SHIPPER REFERENCE 10-56-92009-6089
PACKAGING FedEx Envelope	SPECIAL HANDLING SECTION Deliver Weekday, Residential Delivery	SHIP DATE 10/15/21 
STANDARD TRANSIT 10/18/21 before 12:00 pm 	ACTUAL DELIVERY 10/18/21 at 9:40 am	

All (30)	Inbound (0)	Outbound (30)	Watch list (0)
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EXHIBIT 3

Property Card



Town of Plymouth
Property Listing Report

Parcel ID 017-014-014D

Account

00074600

Property Information

Owner	LAGOSZ RAYMOND & BRENDA
Address	297 NORTH ST
Mailing Address	297 NORTH ST PLYMOUTH, CT 06782
Land Use	
Land Class	R

Census Tract	4253
Neighborhood	101
Zoning	RA1
Acreage	2.62
Utilities	
Lot Setting/ Desc	/ 1

Photo



PARCEL VALUATIONS (Assessed value = 70% of Appraised Value)

	Appraised	Assessed
Buildings	145040	
Outbuildings		
Improvements		
Extras		
Land	97800	
Total	242840	169990
Previous		

Construction Details

Year Built	
Stories	1.5
Building Style	CAPE
Building Use	
Building Condition	AVERAGE
Total Rooms	7
Bedrooms	4
Full Bathrooms	2/1
Half Bathrooms	
Bath Style	
Kitchen Style	
Roof Style	
Roof Cover	

EXTERIOR WALLS:

Primary	FRAME
Secondary	

INTERIOR WALLS:

Primary	
Secondary	

FLOORS:

Primary	
Secondary	

HEATING/AC:

Heating Type	
Heating Fuel	OIL
AC Type	WARM AIR

BUILDING AREA:

Effective Building Area	
Gross Building Area	
Total Living Area	

SALES HISTORY:

Sale Date	0
Sale Price	0
Book/ Page	163/1122

EXHIBIT 4

Property Map



Town of Plymouth, Connecticut. Assessment Parcel Map

GIS Link **017-014-014D**

Address: **297 NORTH ST**

542.70

229.13

014D

297

2.62 AC

369.30

278

316

015

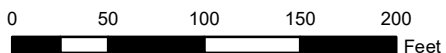
239

0.91 AC

421

014C

1 inch = 100 feet



Disclaimer: This map is for informational purposes only All information is subject to verification by any user. The Town of Plymouth and its mapping contractors assume no legal responsibility for the information contained herein.

Map Produced: October 2020

Google Maps 297 North St



Imagery ©2021 CNES / Airbus, Maxar Technologies, U.S. Geological Survey, USDA Farm Service Agency, Map data ©2021 500 ft

EXHIBIT 5

Zoning Documents

APPLICATION FOR SPECIAL PERMIT

Of

SBA COMMUNICATIONS INC.

For a

WIRELESS TELECOMMUNICATIONS FACILITY

At

297 NORTH STREET

PLYMOUTH, CT.

Submitted to:

PLYMOUTH PLANNING & ZONING COMMISSION

SEPTEMBER 8, 1999

Prepared by:

THOMAS F. FLYNN III
ZONING SPECIALIST
SBA COMMUNICATIONS, INC.

SITE # 4275-008

FILE TYPE

SECTION Zoning

I. INTRODUCTION

SBA Communications, Inc., the Applicant, submits this memorandum in support of its Application for a Special Permit and Site Plan Review to install a wireless telecommunications facility at 297 North Street, Plymouth, CT., on property owned by Raymond and Brenda Lagosz and Francis and Barbara Bart. A copy of the application and associated documents are included as Exhibit 1. The site is also known as Lots 014C, Block 14, Map 017 of the Plymouth Tax Assessor's Map. The parcel is located in the R (Residence) zone as designated by the Town Zoning Map. The proposed use is permitted by Special Permit in the R zone pursuant to Article III Section 3.11 and Article IV Section 4.32.S et seq. of the Plymouth Zoning Regulations.

The proposed facility will close a gap in the networks of several wireless telecommunication carriers, specifically Sprint PCS and Nextel Communication which are co-applicants for purposes this application, while at the same time providing additional opportunities for local emergency services to improve their communications services to the area. Moreover, the location at the North Street property is consistent with the Regulation's requirements. The Regulations encourage Applicants to place these facilities in areas that pose the least impact to the Town and to the surrounding properties, while at the same time serving the needs of the telecommunications carriers and the public's health safety and welfare. There already exists a telecommunications facility at this site. Therefore the area will not be degraded in any way. That facility is not capable of carrying any other PCS antennae at this time. The Regulations require that these facilities be of such a nature to encourage co-location opportunities and to prevent the multiplication of towers in Plymouth. This facility will provide space for up to 5 carriers on this pole. The Applicant has made every effort to place this facility in an area that satisfies the letter and spirit of the regulations. The proposed tower meets and exceeds all the standards contained in the Regulations. The Applicant has agreed to make this facility available to police, fire and emergency services, both municipal and volunteer, as needs dictate, at no cost to Plymouth. There are no towers or other tall structures in the area that would satisfy the needs of the carriers, because the existing pole is not

capable of carrying any other equipment. This property is isolated from surrounding properties, but is near a heavily traveled commercial corridor that has seen high level of new development. The coverage needs of the carriers are served because several of the carriers do not have service in the area and there is a definite need for a new facility in this location.

II. DESCRIPTION OF THE PROPOSED FACILITY

The facility will consist of a 195 foot monopole. The monopole will be constructed to accommodate up to five PCS\Cellular antenna arrays and associated equipment at the base of the pole. The area at the base of the facility will be fenced and secured. As the tenants locate at the site, they will construct their base equipment entirely within the fenced area. It will be landscaped appropriately. This will be an unmanned facility. No sanitary facilities or water will be provided. The site will generate very little traffic and will be visited infrequently after construction is complete. The Applicant has offered to allow the Town emergency services to locate its equipment as needed on the tower at no cost. The availability of this facility to the Town will markedly improve said services' ability to effectively serve the community. A copy of the site plan is attached as Exhibit 1.

III. NEED FOR THE FACILITY

A. FCC REQUIREMENTS

The Applicant provides services to the licensed wireless telecommunications carriers in Connecticut. Each of these carriers, such as Sprint PCS and Nextel are licensed by the FCC and are required as part of their license to provide service throughout the State of Connecticut. A copy of these licenses are attached as Exhibit 2. Each of these carriers are required to complete construction and build out of its wireless network and to fill coverage gaps in its federally licensed service area, which includes the Town of Plymouth. The Applicant provides a variety of services for the carriers. These include the location and leasing of appropriate sites, zoning and permitting, and the construction and ownership of sites that the licensed carriers will use. The Applicant makes a significant contribution to the carrier's ability to satisfy their licensing requirements by providing site like the one before this Commission in the application. Sprint PCS and Nextel Communications Inc. are interested in leasing space on this tower for its network and has agreed to support this application as co-applicants. See letter attached as Exhibit 3. The Commission has two radio frequency propagation studies that are part of this application. Exhibits 4 & 5. These studies are used to determine and analyze the need for sites that are part of each carrier's system. Each study demonstrates that neither carrier have an acceptable level of service in this area. This site will connect with other sites the carriers are currently using or planning to use in creating a complete network.

There is also a public need for the Applicant's service to the carriers, as evidenced by the granting of the carrier's licenses. The grant of the license to the various carriers constitutes a finding that the public interest will be served by the carriers' service. This is consistent with the public policy of the United States "to make available, so far as possible, to all the people of the United States a rapid, efficient, nationwide and world wide wire and radio communication service with adequate facilities at reasonable charges, for the purpose of a national defense, for the purpose of promoting safety of life and property through the use of wire and radio communication..." 47 U.S.C. Section 151. In fact, at the time the FCC granted the carrier's licenses, the FCC determined that the carrier's services furthered the FCC's statutory mandate and the public policy of the United States. A copy of Sprint's and Nextel's license is attached as Exhibit 2.

B. COVERAGE WITHIN THE TOWN OF PLYMOUTH

The Applicant has prepared a visual RF analysis to demonstrate the need to locate wireless telecommunications facility in this area of Plymouth. This analysis is called a signal propagation map and displays the geographical area that is served by wireless facilities within a certain area. A propagation map of the coverage in Plymouth without the proposed facility for each carrier is included as page 1 of Exhibits 4 and 5. As these maps demonstrate, there is a significant coverage gap in Plymouth for each carrier. As described above, the carriers must provide service to this cell. This cell does not currently receive service. The Applicant's proposed facility is designed to supply the necessary coverage.

In order to provide comprehensive service to this area, a wireless facility must be placed in a very specific region. That area within which a facility must be located to provide coverage is called the search area ring. The search area ring for this cell is attached as Exhibit 6. As the search ring demonstrates, the Applicant had a very small region within which it could locate a facility and satisfy the needs of the carriers. If the facility were located outside this search area ring, the facility would not provide coverage throughout this cell and coverage gaps would remain. This would result in unacceptable levels of service for the carriers.

With the proposed facility at 297 North Street, the Applicant is able to provide a site that will allow the carriers to provide coverage throughout the cell and the previous coverage gaps are eliminated. Exhibits 4 and 5, page 1 of each, displays the coverage currently available for Sprint and Nextel in the area from the surrounding facilities. This map demonstrates that there is a coverage gap that needs to be remedied. This site will do so. A propagation map showing the coverage provided by this site is attached as Exhibits 4 and 5, page 2. In addition, the radio coverage available to the emergency services of the town will be improved substantially. SBA has a policy of allowing, at no cost, local volunteer and municipal emergency services on these facilities. When the coverage provided by this site is merged with that of the surrounding facilities, the gap is closed and a seamless network is accomplished. See Exhibits 4 and 5, page 3.

SBA Communications has conducted an exhaustive survey of the sites in the search area ring to identify any existing structure that could be used to fill this gap in coverage for the carriers. Because there

are no buildings or other facilities of sufficient height and because the existing pole at the site is not capable of holding other antennae, the carriers had to turn to the Applicant for an appropriate site for a monopole. The site selected by the Applicant is in R zone. This is a heavily traveled area because of Route 8, but this is an isolated property. The site itself consists of two properties owned by the same owners with a residential structure and some farm buildings and equipment. There are residential developments to the south and east of the site. There is also a commercial property to the north and west. The area is a mixture of uses. There is low residential density in the area. Emergency services may also be able to improve their services by using this facility. This is an ideal site for this type of facility because it can fill the needs of the various emergency services, the surrounding community serviced by them, and the wireless carriers.

IV. COMPLIANCE WITH THE PLYMOUTH ZONING REGULATIONS

The Applicant seeks a Special Permit under Article IV, Section 4.32.S of the Plymouth Zoning regulations. Section 4.32.S details the requirements for this type of facility. The Applicant has satisfied all the criteria outlined in the regulations as follows:

SECTION 4.32.S.1 PURPOSE

This Section outlines the goals of this Commission regarding telecommunication facilities. The Applicant believes that it has satisfied these goals with the selection of this site. Although there is a facility at the site already, the addition of another, especially one that will accommodate the needs of up to 5 telecommunications carriers, will ensure that there will be no further proliferation of towers in this area. The Applicant has reviewed the "Guide Plan for the Central Connecticut Region" and believes that it has satisfied the criteria contained therein. See Exhibit 7

SECTION 4.32.S.2 LOCATIONAL PREFERENCES

The site selected by the Applicant is number 6 on the list of preferences. However, this site was selected because of the need of the carriers to provide service in particular areas. That need is driven by the technology of the wireless industry, the real limitations imposed by the topography of the area, and the relationship of this site to the surrounding coverage areas.

SECTION 4.32.S.3 SPECIAL STANDARDS

- (i) This facility is not within 200 feet of a residence. It is 213 feet from the residence of the owners of the property.
- (ii) No lighting is required at this facility. See Exhibit 8.
- (iii) The Tower is galvanized steel that will quickly weather to a mat grey color.
- (iv) No signage or advertising will be placed on the tower.
- (v) This tower will accommodate up to 5 PCS type antennae array.

- (vi) The facility is setback from all property lines in excess of 215 feet.
- (vii) Not applicable. The individual carriers will make application to this Commission for all the approvals necessary to locate their antennae and base station equipment. This Applicant does not make any proposal for buildings at this time.
- (viii) Not applicable. No dish type antennae are proposed.
- (ix) Not applicable.
- (x) The applicant has proposed an 8 foot fence to enclose the tower and an area sufficient for future location of the carrier's ground equipment.
- (xi) Each carrier is obligated by its license to comply with all FCC standards, which include non-interference with all existing telecommunications systems.
- (xii) This facility, and all carriers that locate on it, will comply with all FCC standards.
- (xiii) The utilities will be underground.
- (xiv) Not applicable at this time.

SECTION 4.32.S.4 APPLICATION REQUIREMENTS

- (i) Provided as Exhibits 4&5
- (ii) Attached as Exhibit 9
- (iii) See Exhibit 1 Site Plan Sheet C-4
- (iv) Not Applicable at this time.

This site complies with all the regulations. In fact this site is exactly the type of property that the designers of the current regulation sought to encourage. As indicated above, without the proposed facility, SBA Communications on behalf of Sprint PCS and Nextel, federally licensed carriers, will be unable to provide service to this area and improve emergency services communications. The public's safety will not be compromised by the location of the facility. In addition to providing a fall zone in which there are no other structures, these towers are extremely sturdy. In the very unlikely event that the tower might be damaged, the tower will fold in upon itself. See attached Exhibit 10. In addition to the opinion of the

structural engineer, attached is a study that indicates that there have been no reported monopole failures.

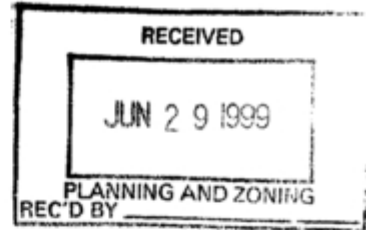
Exhibit 11. This facility will be built to meet or exceed all building code standards and is an extremely safe facility.

The facility will be an integral part of the PCS carrier's network of facilities in the area. The FCC requires Sprint, Nextel and the other carriers to provide coverage and to complete construction of the networks in the federally licensed areas and to fill coverage gaps in the network, which includes Plymouth. Without this Special Permit, the carriers will be unable to fulfill their license requirements and provide coverage.

V. CONCLUSION

The Applicant respectfully submits that the Plymouth Planning and Zoning Commission should grant the requested Special Permit because the Applicant has complied with all the pertinent regulations and provided the Commission with all the necessary information on which to grant the Special Permit. By granting the requested Special Permit, the Commission will permit the Applicant and the licensed carriers to comply with the FCC mandate to build out the wireless system and provide reliable wireless communications. Many people will be concerned by unsubstantiated claims that property values are effected by tower construction. There are also fears of the health impacts of these towers. Although these issues are not part of the responsibilities of this Commission, the Applicant would like to address the issues briefly. There are no studies and no evidence that property values decline as a result of tower construction , despite the anecdotal comments to the contrary. Properties continue to appreciate in value at the same rate as other similar properties, and to sell at comparable rates and prices. With regard to health issues, all carriers that occupy space on this facility are required by their licenses to comply with all current and future FCC standards for EMF radiation. The 1996 Telecommunications Act prohibits a regulatory authority from denying an application based on the perceived health impact of radio emissions if the carrier is in compliance with FCC regulations. A copy is attached as Exhibit 16. This Commission is prohibited by federal law from basing its decision on the issue of the health impact of the tower.

In any event, this Commission has the opportunity to substantially increase the public health, safety and welfare by approving this application



June 29, 1999

Planning & Zoning Commission
Town of Plymouth
19 East Main Street
Terryville, CT. 06786

Re: Special Permit Application
297 North Street

Dear Sir,

Enclosed please find an application for a Special Permit, the appropriate number of drawings and the filing fee. Please receipt this at your next meeting and schedule the public hearing for the month of August.

Please call me at the number below if I can answer any questions or provide you with any further information.

Very truly yours,



THOMAS F. ELYNN III
ZONING SPECIALIST
SBA COMMUNICATIONS INC.

TOWN OF PLYMOUTH
PLANNING AND ZONING COMMISSION
APPLICATION FOR ZONING PERMIT

EST. VALUE _____
FEE PAID _____

DATE OF APPLICATION June 22, 1999
APPLICATION IS HEREBY MADE TO THE PLANNING AND ZONING COMMISSION
OF THE TOWN OF PLYMOUTH FOR A PERMIT FOR: **Special Permit**

New construction ☒ swimming pool ☐ sign ☐
addition ☐ accessory bldg. ☐ renovation ☐
parking lot ☐ other ☐

LOCATION OF PROPERTY 297 North Street

MAP # 017 BLOCK# 014 LOT# 014C

APPLICANT: SBA Communications Inc. Attn: Thomas F. Flynn III

OWNER (IF DIFFERENT): Raymond & Brenda Lagosz, Francis & Barbara Bqut

ADDRESS (IF DIFFERENT): _____

PHONE (HOME): _____ (WORK): Applicant 203-578-3697

ZONE R LOT AREA 10,000 sq. feet LOT FRONTAGE Na

WIDTH OF LOT Na AVERAGE DEPTH OF LOT _____

PROPOSED STRUCTURE Telecommunications tower EXISTING STRUCTURE _____

DIMENSIONS _____ 195' (LxWxH)

DISTANCE FROM: SIDE YARDS na FRONT YARD na REAR LOT na

FLOOR AREA: na SQ.FT.

STRUCTURE WILL BE SERVICED BY private well ☐ on site septic _____

No water or sanitary service at site ☐ sewer ☐ public water ☐

HEALTH DEPARTMENT SIGNATURE: _____ DATE: _____

W.P.C.A. SIGNATURE: _____ DATE: _____

INLAND WETLAND COMMISSION APPLICATION REQUIRED. YES ☐ NO ☒

PROPERTY USE: single family residence ☐ commercial ☒

multifamily ☐ manufacturing ☐ other ☐

PLOT PLAN ATTACHED ☒ A-2 FOUNDATION AS BUILT REQUIRED _____

EXCAVATION PERMIT _____

CONFORMING ALL ASPECTS ☒ EXISTING NON CONFORMING _____

DOES NOT CONFORM _____ CONFORMS THROUGH VARIANCE _____

VARIANCE GRANTED TO: _____

DATE OF VARIANCE: _____ FOR _____

I HEREBY AGREE TO CONFORM TO ALL REQUIREMENTS OF THE LAWS OF THE STATE OF CONNECTICUT AND THE TOWN ORDINANCES OF THE TOWN OF PLYMOUTH AND TO NOTIFY THE PLANNING AND ZONING COMMISSION OF ANY ALTERATIONS IN THE PLANS FOR WHICH THIS PERMIT IS BEING ASKED. I FURTHERMORE AGREE THAT THIS BUILDING IS TO BE LOCATED AT THE PROPER DISTANCE FROM ALL STREET AND LOT LINES REQUIRED BY THE ZONING REGULATIONS OF ANY OTHER APPLICABLE LOCAL AND STATE ORDINANCES AND REGULATIONS AND IT IS UNDERSTOOD THAT THE FACILITY UPON COMPLETION WILL BE USED IN FULL COMPLIANCE WITH THE ZONING REGULATIONS OF THE TOWN OF PLYMOUTH. I HEREBY APPLY FOR A CERTIFICATE OF USE AND COMPLIANCE FOR THE ABOVE DESCRIBED BUILDING OR USE AS DESCRIBED IN THE ABOVE APPLICATION FOR A PERMIT. IT IS MY UNDERSTANDING THAT THE FACILITY CAN NOT BE OCCUPIED UNTIL A CERTIFICATE OF USE AND COMPLIANCE HAS BEEN ISSUED BY THE PLANNING AND ZONING COMMISSION.

SIGNATURE OF APPLICANT _____

SIGNATURE OF OWNER (IF DIFFERENT) _____

FOR OFFICE USE ONLY

PERMIT IS HEREBY: GRANTED _____ PERMIT # _____ DATE: _____

DENIED _____ REASON FOR DENIAL _____

LAND USE ENFORCEMENT OFFICER

FORM EFFECTIVE: 5/20/94

EXHIBIT 6

Construction Drawings

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

1. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.

2. THE ARCHITECT/ENGINEER 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.

3. THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE OMMPOINT 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.

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.

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.

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.

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.

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.

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.

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.

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.

14. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.

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.

16. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.

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.

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

VICINITY MAP

SCALE: 1" = 1000'-0"

DIRECTIONS

MERGE ONTO I-495 NORTH TOWARD MANSFIELD/MARLBORO. TAKE EXIT 58 FOR I-90 WEST TOWARD ALBANY. USE RIGHT 2 LANES FOR EXIT 78 FOR I-84 TOWARD HARTFORD CT/NEW YORK CITY. CONTINUE ONTO I-84. KEEP LEFT TO STAY ON I-84 (2x). KEEP RIGHT TO STAY ON I-84 & FOLLOW SIGNS FOR I-91 NORTH/HARTFORD. KEEP RIGHT TO STAY ON I-84. TAKE EXIT 33 FOR CT-72 WEST/NEW BRITAIN AVENUE TOWARD BRISTOL/PLAINVILLE. KEEP LEFT TO CONTINUE ON CT-72 WEST. TURN RIGHT ONTO CT-72. CONTINUE STRAIGHT ONTO MEMORIAL BOULEVARD. CONTINUE ONTO SCHOOL STREET. CONTINUE ONTO DIVINITY STREET. TURN RIGHT ONTO PARK STREET. CONTINUE ONTO CT-72/TERRYVILLE ROAD. TURN LEFT ONTO US-6 WEST/MAIN STREET. TURN RIGHT ONTO NORTH STREET. SITE IS LOCATED ON THE LEFT HAND SIDE.

SHEET INDEX

SHEET NO.	DESCRIPTION	REV. NO.
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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:	CT11366A
SITE NAME:	THOMASTON3/RT 8
SBA SITE NUMBER:	CT01497-S
SBA SITE NAME:	PLYMOUTH 2 CT
SITE ADDRESS:	297 NORTH STREET PLYMOUTH, CT 06782
PROPERTY OWNER:	F & B BART & R & B LAGOSZ PTR DBA PINE CREST FARM 297 NORTH STREET PLYMOUTH, CT 06782
TOWER OWNER:	SBA TOWERS, LLC 8501 CONGRESS AVENUE BOCA RATON, FL 33487 PHONE: 561-226-9523
COUNTY:	LITCHFIELD
ZONING DISTRICT:	RA1 (RESIDENTIAL)
STRUCTURE TYPE:	MONOPOLE
STRUCTURE HEIGHT:	195'±
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: 41.693297° N41°41'35.87" LONGITUDE: -73.053692° W73°03'13.29"

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

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

SBA

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

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

STATE OF CONNECTICUT
JAMES M. FITZGERALD
No. 25997
LICENSED
PROFESSIONAL CIVIL ENGINEER

CHECKED BY: JMT

APPROVED BY: JMT

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
1	10/07/21	ISSUED FOR CONSTRUCTION	CMC
0	09/21/21	ISSUED FOR REVIEW	CMC

SITE NUMBER:
CT11366A

SITE ADDRESS:
297 NORTH STREET
PLYMOUTH, CT 06782

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1

1815.289

GENERAL NOTES:

1. 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
2. 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.
3. 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.
4. 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.
5. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
6. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
8. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR.
9. 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.
10. 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.
11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY.
12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION AND RETURN DISTURBED AREAS TO ORIGINAL CONDITIONS.
13. 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.
14. 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.
15. CONSTRUCTION SHALL COMPLY WITH ALL T-MOBILE STANDARDS AND SPECIFICATIONS.
16. 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.
17. 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.
18. 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:

1. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
2. 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.
3. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
4. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
5. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
6. 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.
7. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
8. 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.
9. 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.
10. 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.
11. THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE T-MOBILE SPECIFICATION FOR SITE SIGNAGE.

CONCRETE AND REINFORCING STEEL NOTES:

1. 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.
2. 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
3. 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.
4. 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 LARGER2 IN.
#5 AND SMALLER & WWF1½ IN.
CONCRETE NOT EXPOSED TO EARTH OR WEATHER
OR NOT CAST AGAINST THE GROUND:
SLAB AND WALL¾ IN.
BEAMS AND COLUMNS½ IN.
5. A CHAMFER ¾" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
6. 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.
7. 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.
8. 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.
9. 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:

1. 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".
2. 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.
3. 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.
4. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE ¾" DIA. ASTM A 307 BOLTS (GALV) UNLESS NOTED OTHERWISE.
5. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER REVIEW & APPROVAL ON PROJECTS REQUIRING STRUCTURAL STEEL
6. ALL STRUCTURAL STEEL WORK SHALL BE DONE IN ACCORDANCE WITH AISC SPECIFICATIONS.

SOIL COMPACTION NOTES FOR SLAB ON GRADE:

1. EXCAVATE AS REQUIRED TO REMOVE VEGETATION AND TOPSOIL TO EXPOSE NATURAL SUBGRADE AND PLACE CRUSHED STONE AS REQUIRED.
2. COMPACTION CERTIFICATION: AN INSPECTION AND WRITTEN CERTIFICATION BY A QUALIFIED GEOTECHNICAL TECHNICIAN OR ENGINEER IS ACCEPTABLE.
3. 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.
4. COMPACTED SUBBASE SHALL BE UNIFORM AND LEVELED. 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.
5. 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:

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

CONSTRUCTION NOTES:

1. FIELD VERIFICATION:
SUBCONTRACTOR SHALL FIELD VERIFY SCOPE OF WORK, T-MOBILE ANTENNA PLATFORM LOCATION AND UTILITY TRENCHWORK.
2. COORDINATION OF WORK:
SUBCONTRACTOR SHALL COORDINATE RF WORK AND PROCEDURES WITH CONTRACTOR.
3. 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:

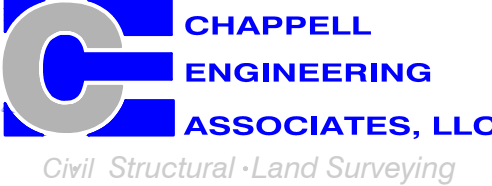
1. WIRING, RACEWAY, AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC AND TELCORDIA.
2. SUBCONTRACTOR SHALL MODIFY OR INSTALL CABLE TRAY SYSTEM AS REQUIRED TO SUPPORT RF AND TRANSPORT CABLEING TO THE NEW BTS EQUIPMENT. SUBCONTRACTOR SHALL SUBMIT MODIFICATIONS TO CONTRACTOR FOR APPROVAL.
3. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC AND TELCORDIA.
4. CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
5. 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.
6. 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.
7. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E., PANELBOARD AND CIRCUIT ID'S).
8. PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS.
9. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
10. 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.
11. 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.
12. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED OUTDOORS, OR BELOW GRADE, SHALL BE SINGLE CONDUCTOR #2 AWG SOLID TINNED COPPER CABLE, UNLESS OTHERWISE SPECIFIED.
13. 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.
14. 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).
15. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
16. NEW RACEWAY OR CABLE TRAY WILL MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
17. 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.
18. ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
19. GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.
20. 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.
21. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
22. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE.
23. CABINETS, BOXES AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
24. CABINETS, BOXES AND WIREWAYS TO MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
25. 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.
26. 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.
27. 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.
28. 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.
29. THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
30. 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.
31. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.
32. CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.

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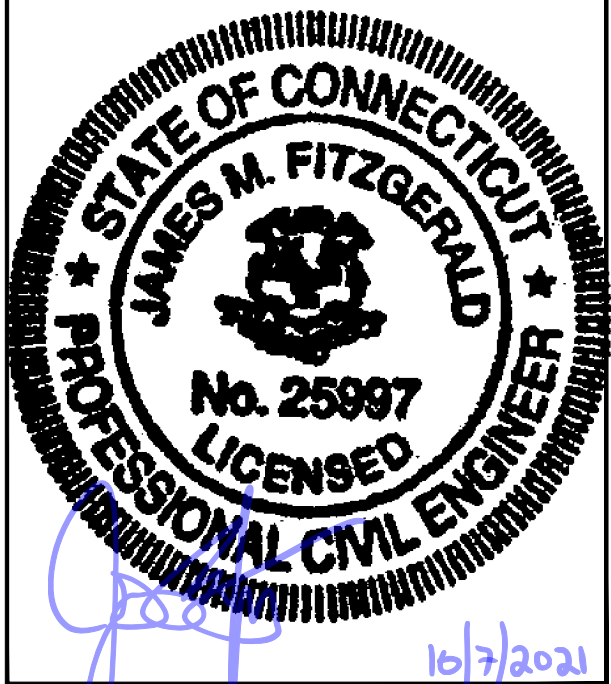
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CHECKED BY: JMT

APPROVED BY: JMT

SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
1	10/07/21	ISSUED FOR CONSTRUCTION	CMC
0	08/21/21	ISSUED FOR REVIEW	CMC

SITE NUMBER:
CT11366A

SITE ADDRESS:
297 NORTH STREET
PLYMOUTH, CT 06782

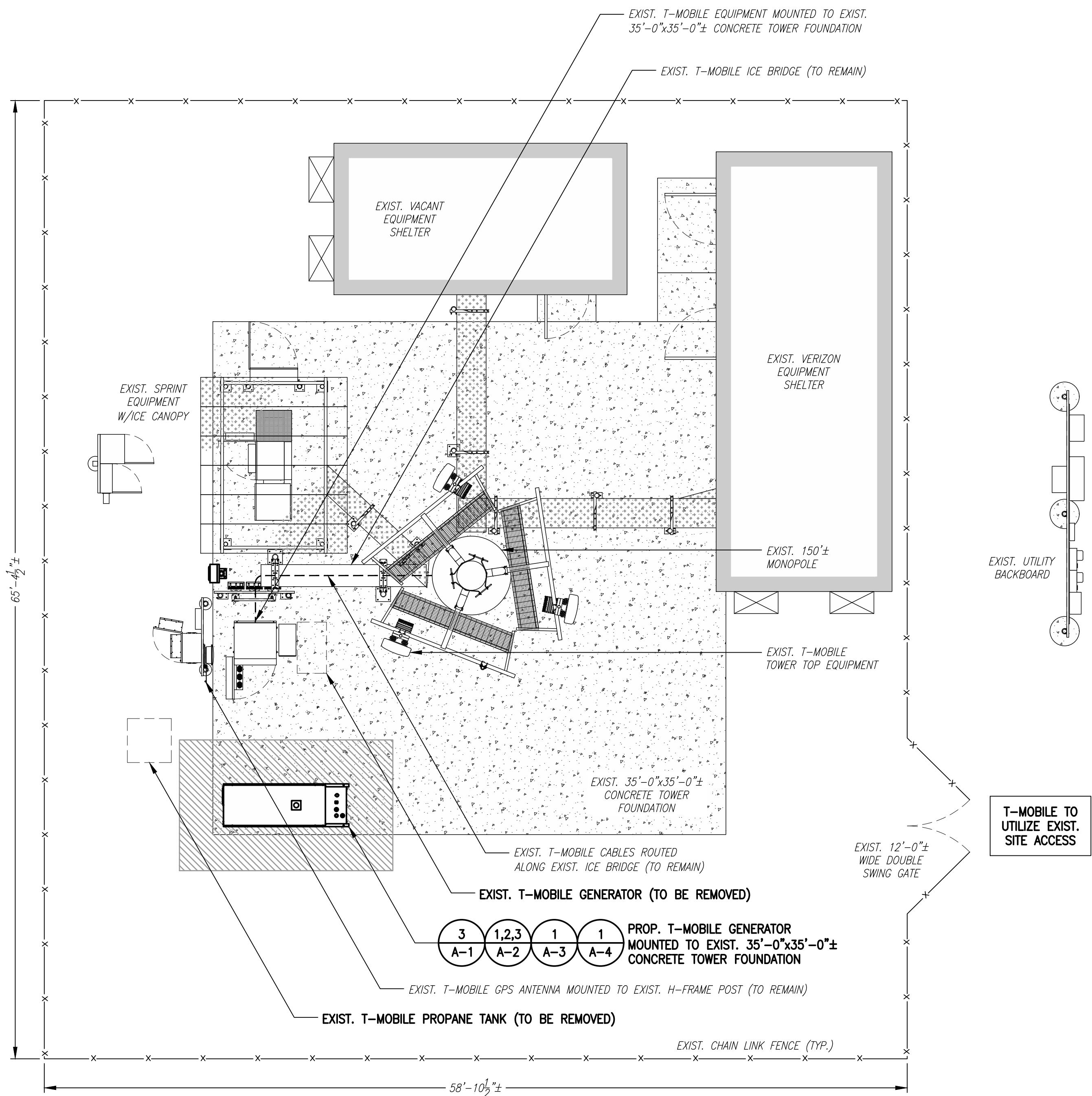
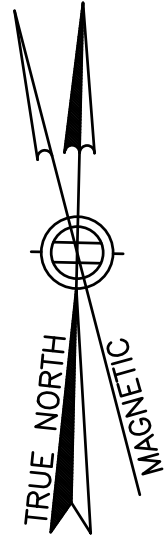
SHEET TITLE

GENERAL NOTES

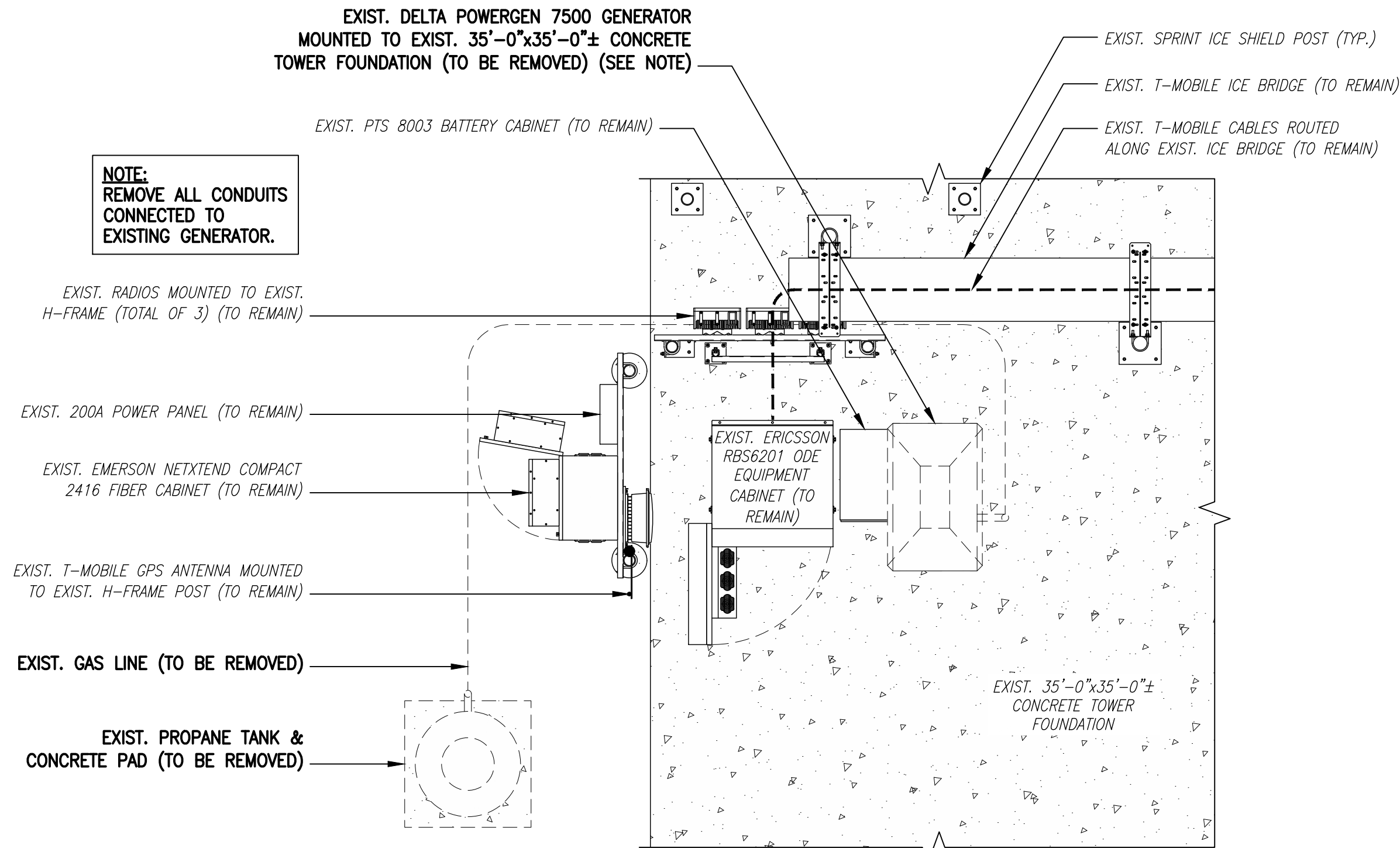
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GN-1

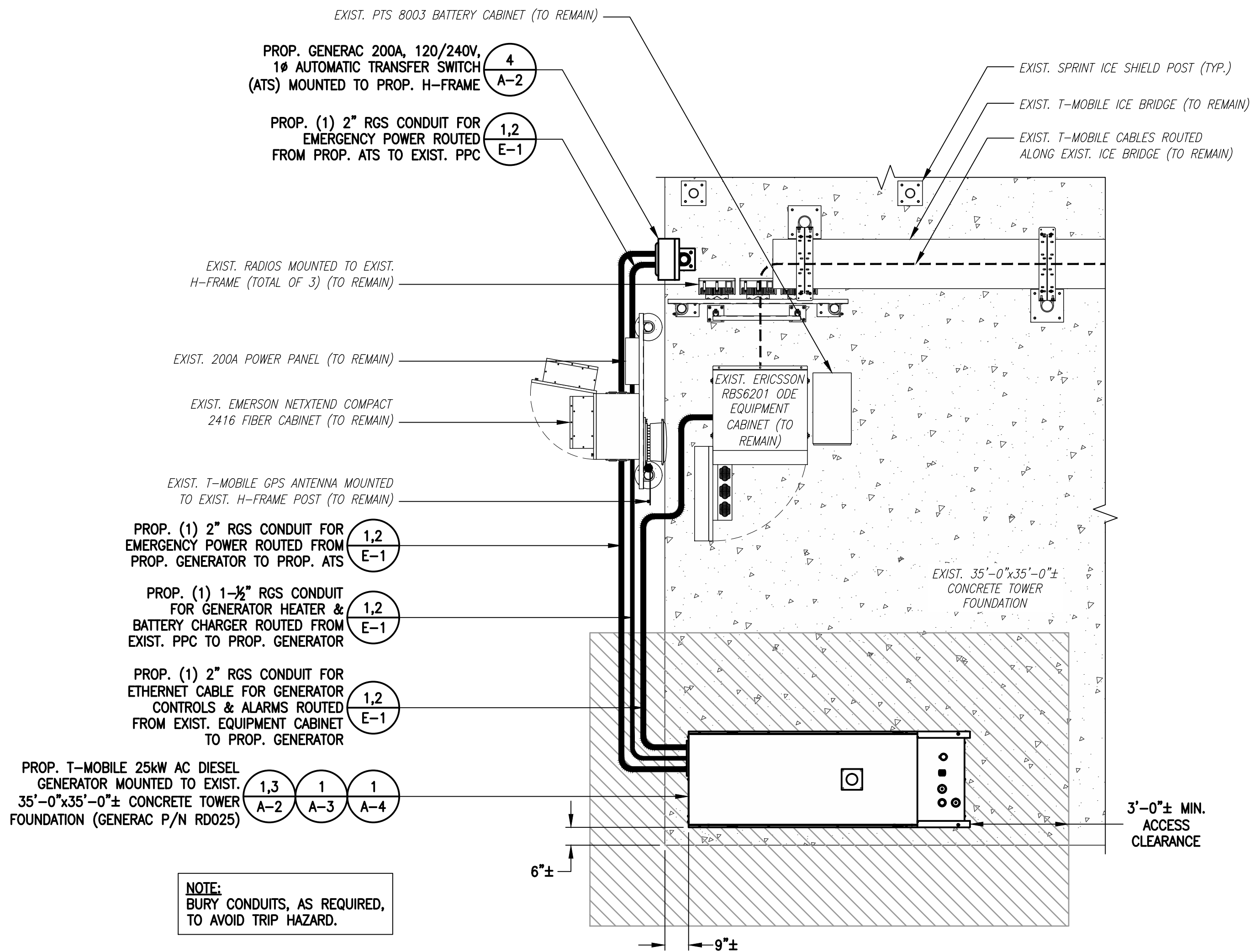
SPECIAL CONSTRUCTION WORK NOTE (HAND DUG UTILITY TRENCH EXCAVATION REQUIRED):
EXISTING UNDERGROUND UTILITY LOCATIONS ARE UNKNOWN. GENERAL CONTRACTOR SHALL HAND-EXCAVATE TO REQUIRED SUB-GRADE DEPTH SUFFICIENT TEST HOLES
OR AS DIRECTED/REQUIRED BY SBA REGIONAL SITE MANAGER SHALL HAND-EXCAVATE ALL PROPOSED UNDERGROUND UTILITY TRENCHES. GENERAL CONTRACTOR
RESPONSIBLE FOR ANY REQUIRED SPECIAL TEMPORARY PROTECTION OF EXISTING UNDERGROUND UTILITIES, PHYSICAL DAMAGE REPAIR, AND SERVICE RESTORATION.



COMPOUND PLAN
SCALE: 3/16" = 1'-0"
1
A-1



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



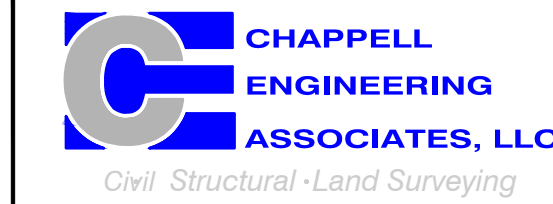
PROPOSED EQUIPMENT PLAN
SCALE: 3/8" = 1'-0"
3
A-1

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SHEET TITLE
**COMPOUND &
EQUIPMENT PLAN**

SHEET NUMBER
A-1

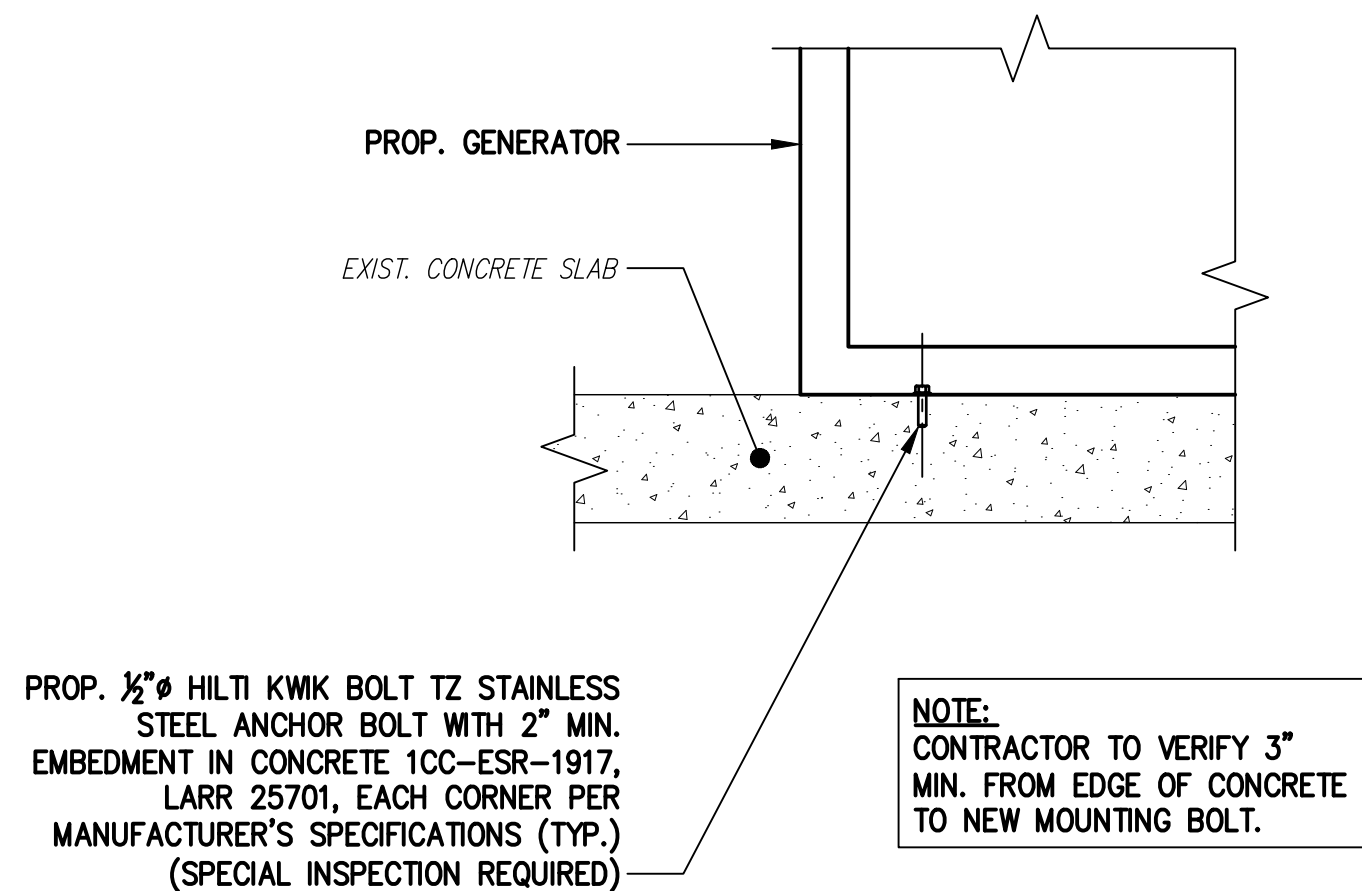
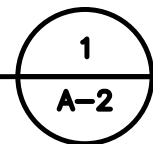


GENERAC RD025 25kW AC DIESEL GENERATOR

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

GENERATOR DETAIL

SCALE: N.T.S.

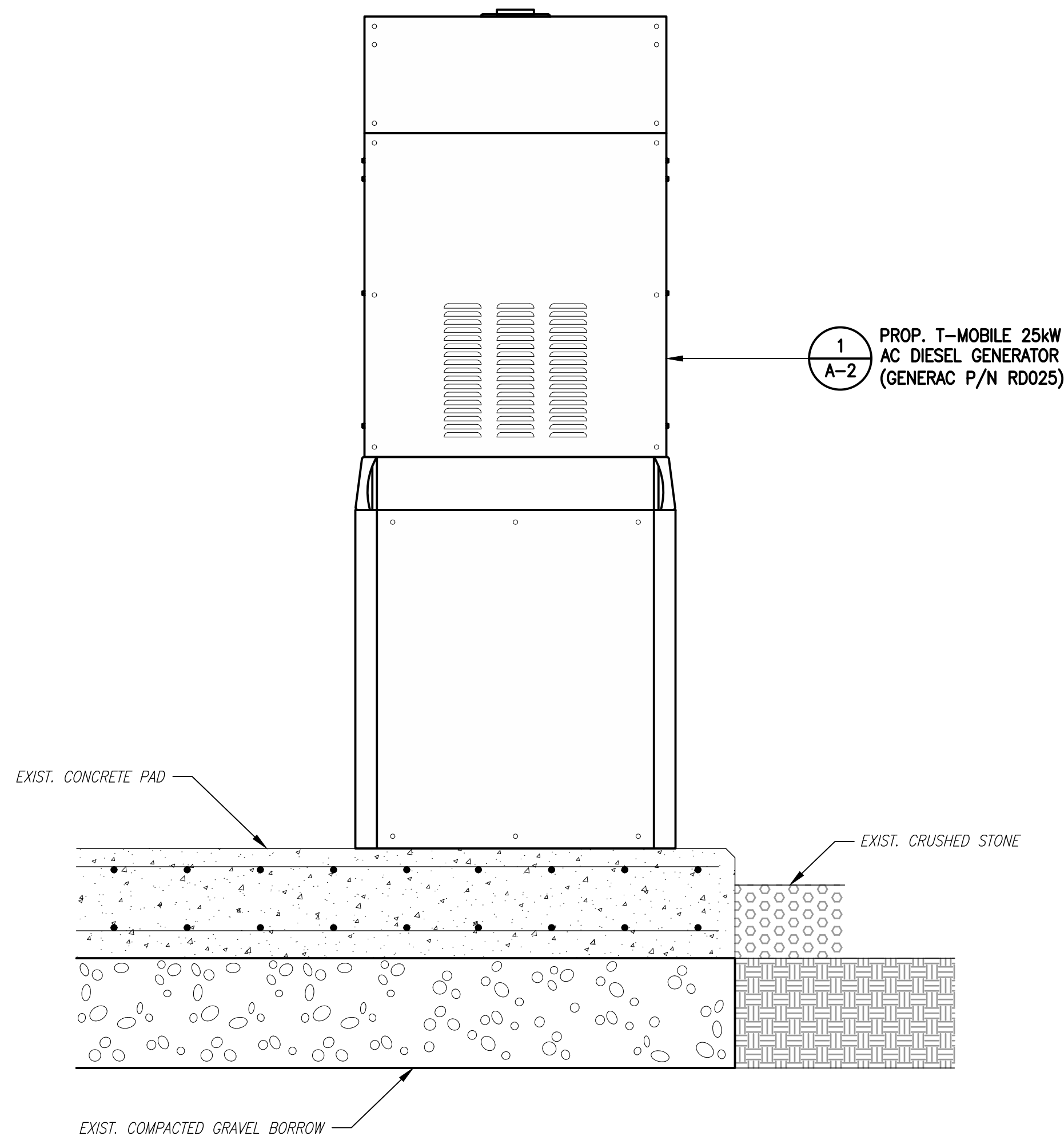
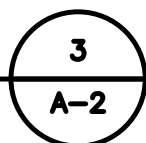


PROP. 1/2" HILTI KWIK BOLT TZ STAINLESS STEEL ANCHOR BOLT WITH 2" MIN. EMBEDMENT IN CONCRETE 1CC-ESR-1917, LARR 25701, EACH CORNER PER MANUFACTURER'S SPECIFICATIONS (TYP.) (SPECIAL INSPECTION REQUIRED)

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

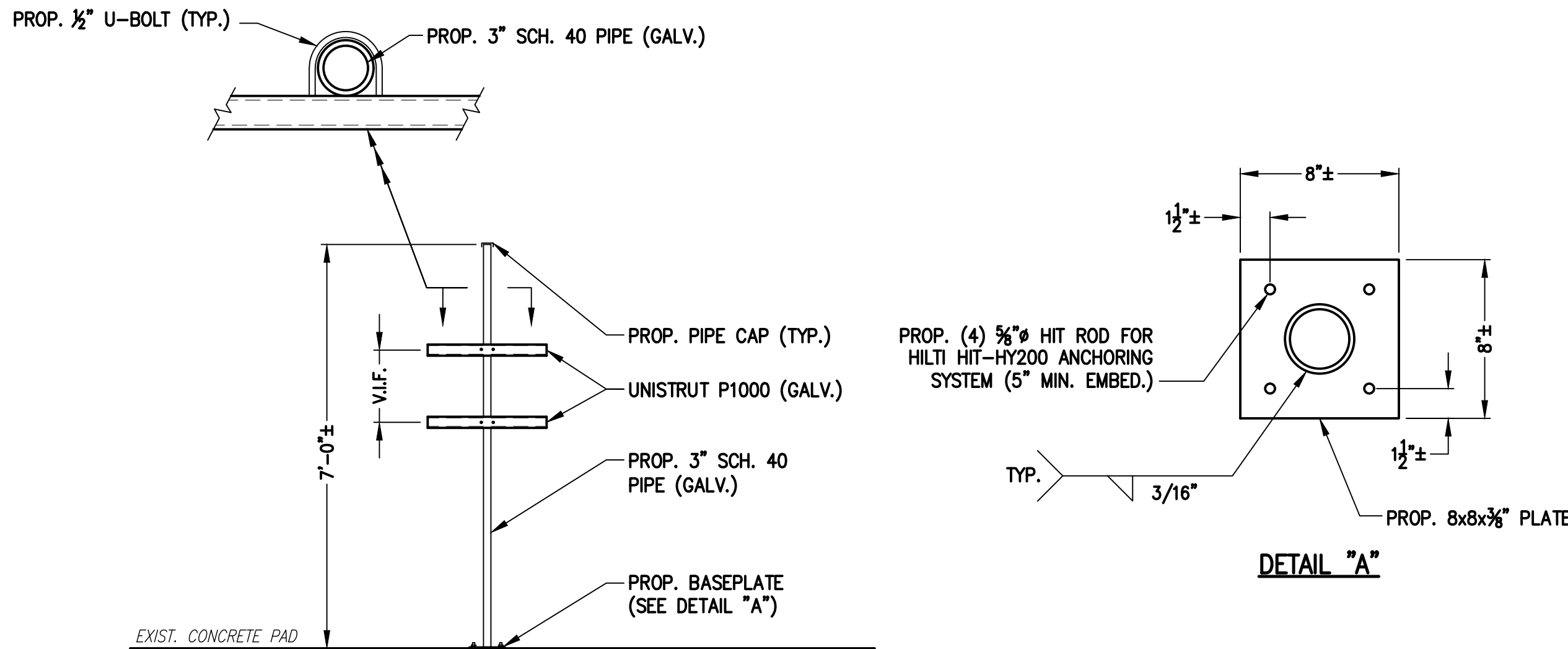
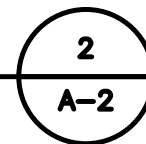
GENERATOR MOUNTING DETAIL

SCALE: N.T.S.



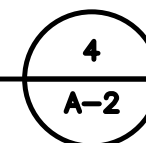
GENERATOR PAD DETAIL

SCALE: N.T.S.



H-FRAME DETAIL

SCALE: N.T.S.

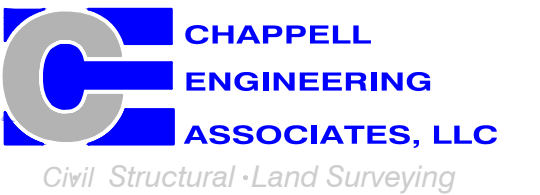


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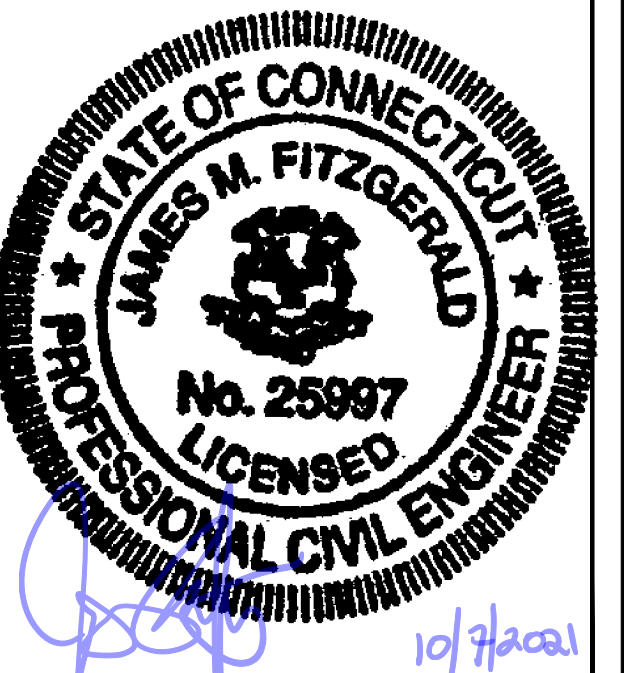
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SITE NUMBER:
CT11366A

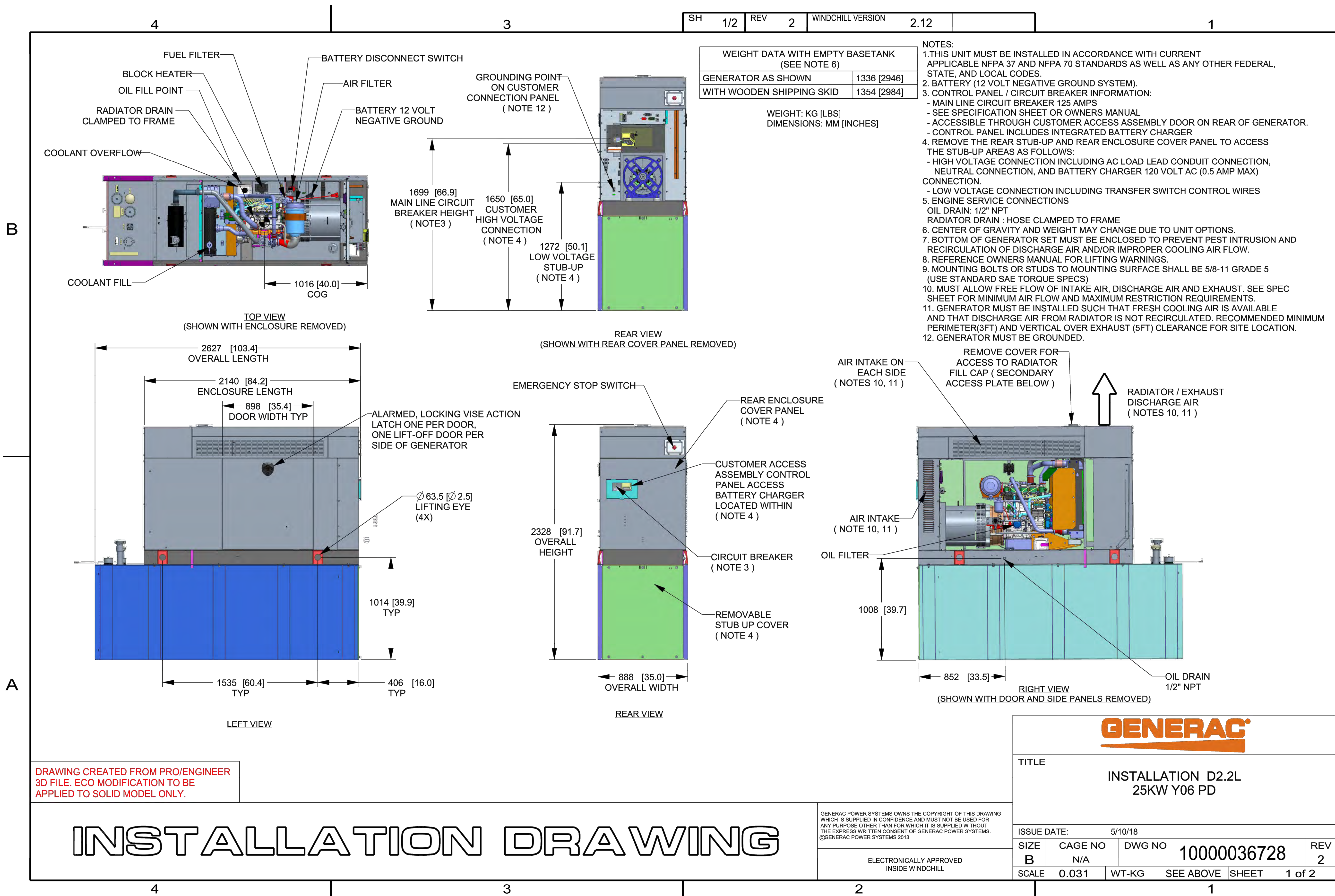
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297 NORTH STREET
PLYMOUTH, CT 06782

SHEET TITLE

GENERATOR DETAILS

SHEET NUMBER

A-2

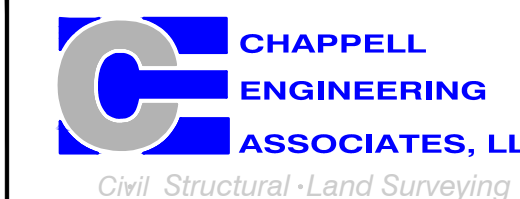


T-MOBILE
NORTHEAST LLC

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



SBA COMMUNICATIONS CORP.
134 FLANDERS ROAD, SUITE 125
WESTBOROUGH, MA 01581
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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	10/07/21	ISSUED FOR CONSTRUCTION	CMC
0	09/21/21	ISSUED FOR REVIEW	CMC

SITE NUMBER:
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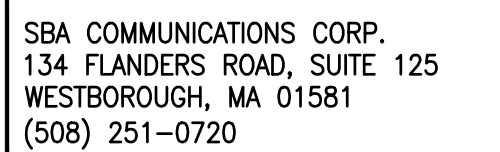
SITE ADDRESS:
297 NORTH STREET
PLYMOUTH, CT 06782

SHEET TITLE
GENERATOR
SPECIFICATIONS 1

SHEET NUMBER

A-3

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(508) 286-2700



APPROVED BY: JMT

SITE NUMBER:
CT11366A

SITE ADDRESS:
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PLYMOUTH, CT 06782

SHEET TITLE

GENERATOR SPECIFICATIONS 2

SHEET NUMBER

A-4



INSTALLATION DRAWING

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ANY PURPOSE OTHER THAN FOR WHICH IT IS SUPPLIED WITHOUT
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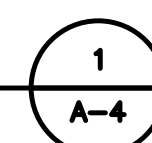
TITLE	INSTALLATION D2.2L 25KW Y06 PD
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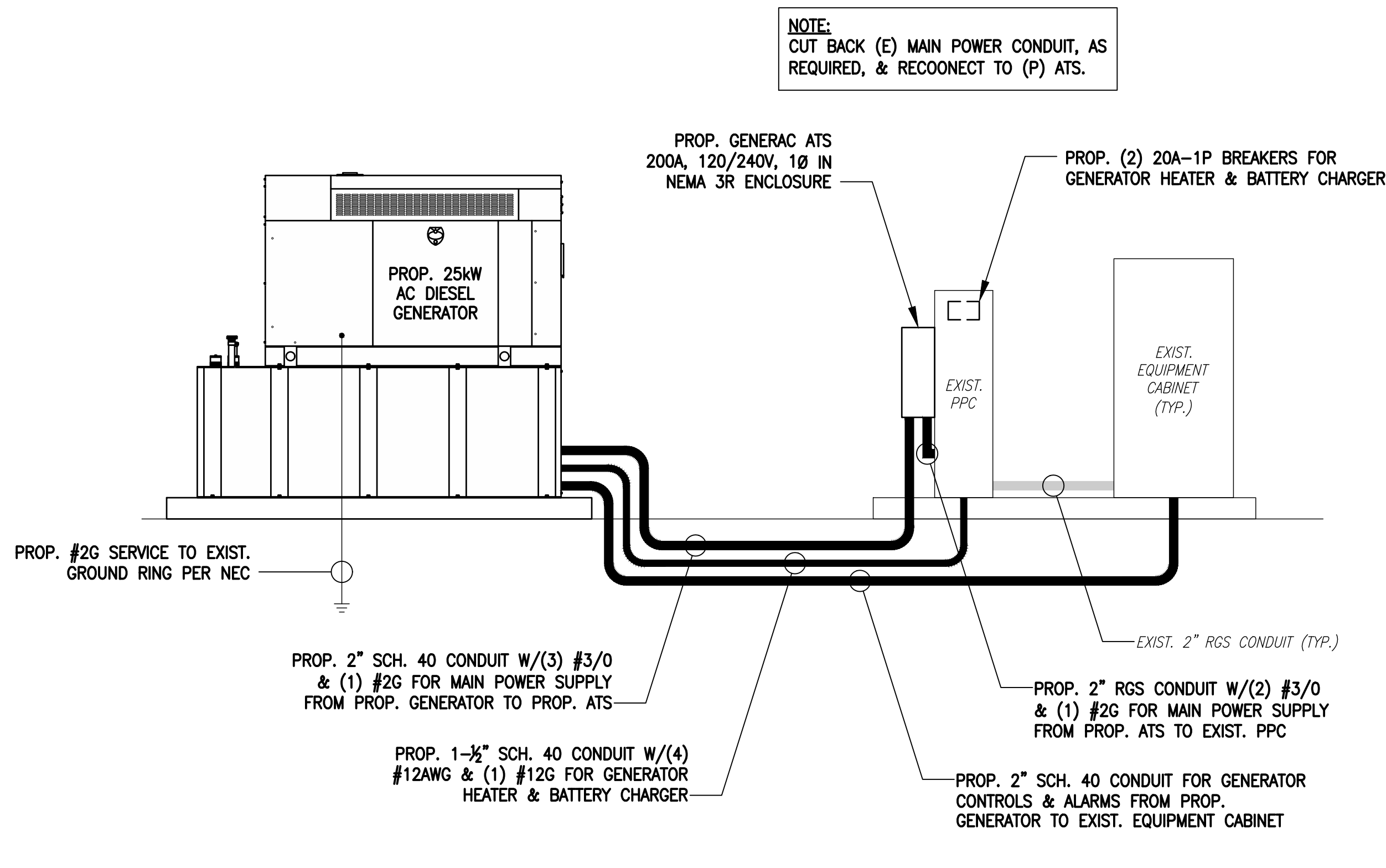
ISSUE DATE:	5/10/18
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SIZE B	CAGE NO N/A	DWG NO 10000036728	REV 2
SCALE 0.063	WT-KG	SEE ABOVE	SHEET 2 of 2

GENERATOR SPECIFICATIONS

SCALE: N.T.S.

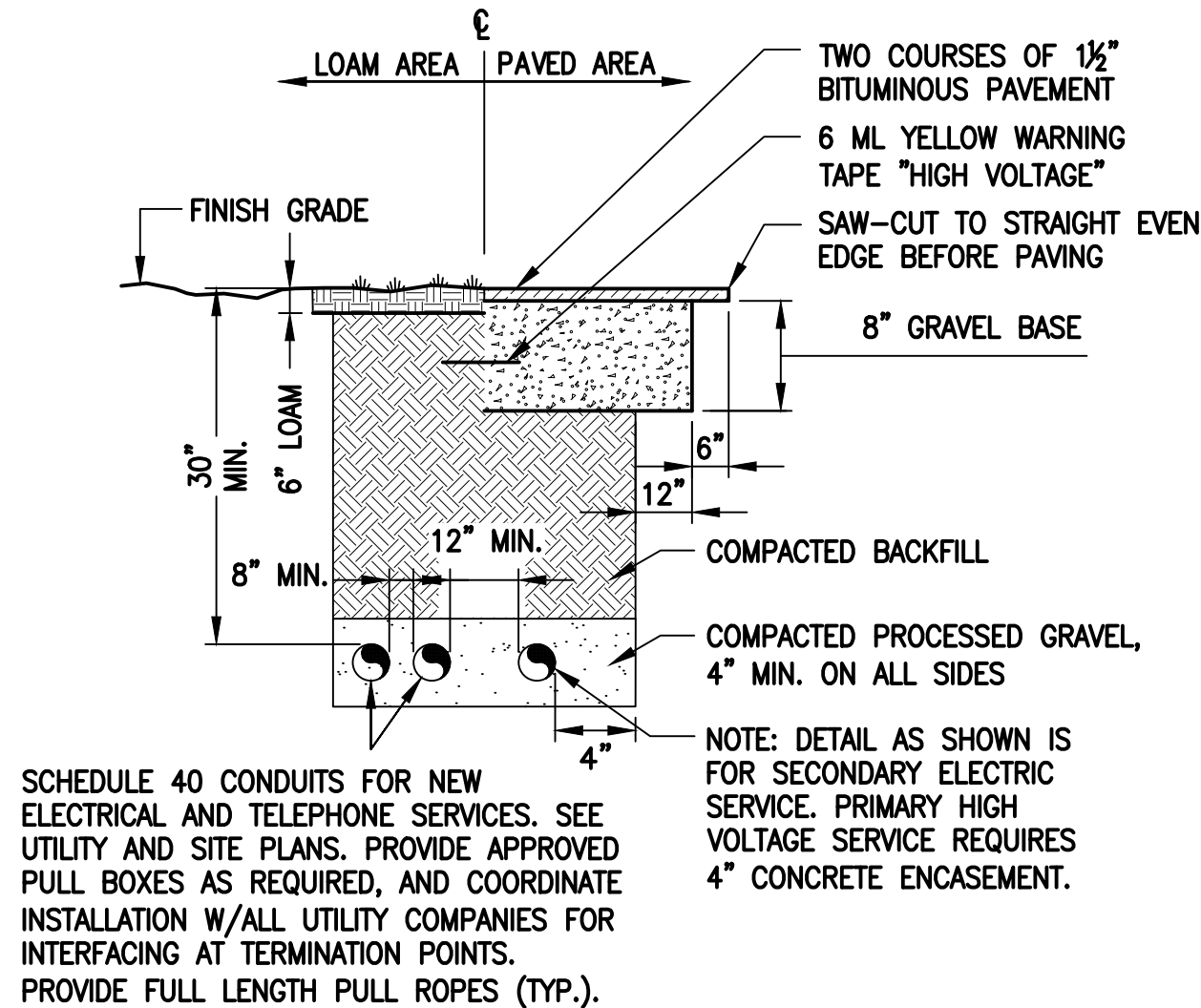




ONE-LINE POWER DIAGRAM

SCALE: NOT TO SCALE

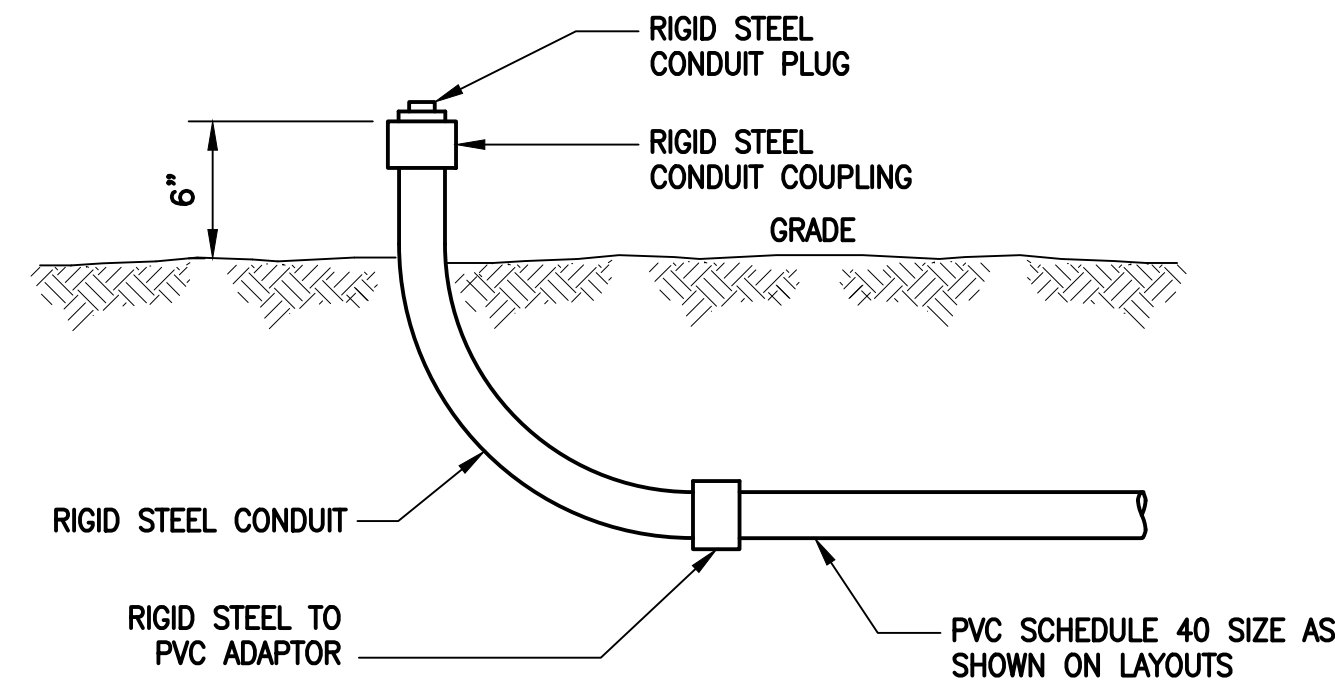
1
E-1



BURIED CONDUIT DETAIL

SCALE: NOT TO SCALE

2
E-1



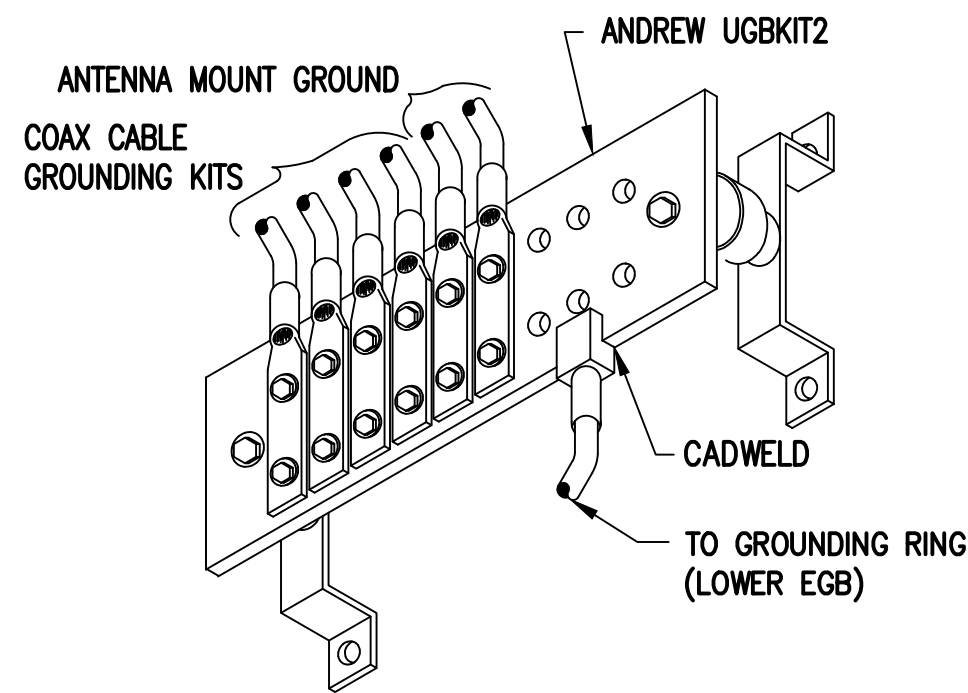
TYPICAL CONDUIT STUB-UP DETAIL

SCALE: NONE

3
E-1

ELECTRICAL AND GROUNDING NOTES

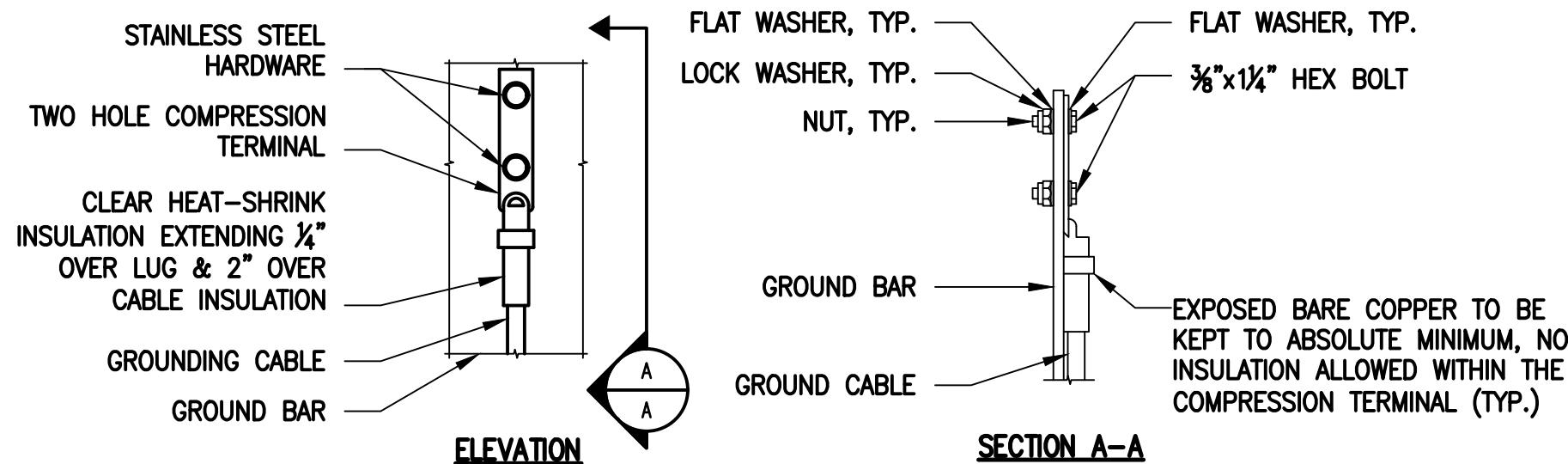
- ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.
- ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER SPECIFICATION REQUIREMENTS.
- THE ELECTRICAL WORK INCLUDES ALL LABOR AND MATERIAL DESCRIBED 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, THWN, OR THININSULATION.
- 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 HYSGROUND 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

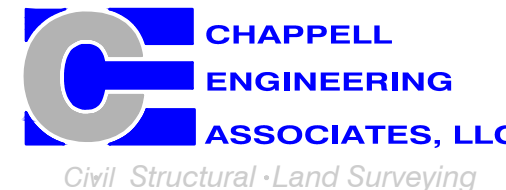
5
E-1

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SUBMITTALS

REV.	DATE	DESCRIPTION	BY
1	10/07/21	ISSUED FOR CONSTRUCTION	CMC
0	08/21/21	ISSUED FOR REVIEW	CMC

SITE NUMBER:
CT11366A

SITE ADDRESS:
297 NORTH STREET
PLYMOUTH, CT 06782

SHEET TITLE

ELECTRIC & GROUNDING
DETAILS

SHEET NUMBER

E-1

EXHIBIT 7

Generac RD025 25 KW
25kw Diesel Specifications

RD025 | 2.2L | 25 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

GENERAC® | **INDUSTRIAL
POWER**

Standby Power Rating

25 kW, 31.25 kVA, 60 Hz



Image used for illustration purposes only

Codes and Standards

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



UL2200, UL508, UL489, UL142



CSA 22.2



BS5514 and DIN 6271



SAE J1349



NFPA 37, 70, 99



ISO 3046, 8528, 9001



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



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

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

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



OPERATING DATA

POWER RATINGS

		Standby
Single-Phase 120/480 VAC @0.1pf	25 kW	Amps: 104
Three-Phase 120/208 VAC @0.8pf	25 kW	Amps: 87
Three-Phase 120/240 VAC @0.8pf	25 kW	Amps: 75
Three-Phase 277/480 VAC @0.8pf	25 kW	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)	ft³/min (m³/min)	2800 (79)
Coolant System Capacity	gal (L)	2.5 (9.5)
Heat Rejection to Coolant	BTU/hr (MJ/hr)	128,638 (135.7)
Max. Operating Ambient Temperature	°F (°C)	122 (50)
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 ft³/min (m³/min)	88 (2.5)

ENGINE

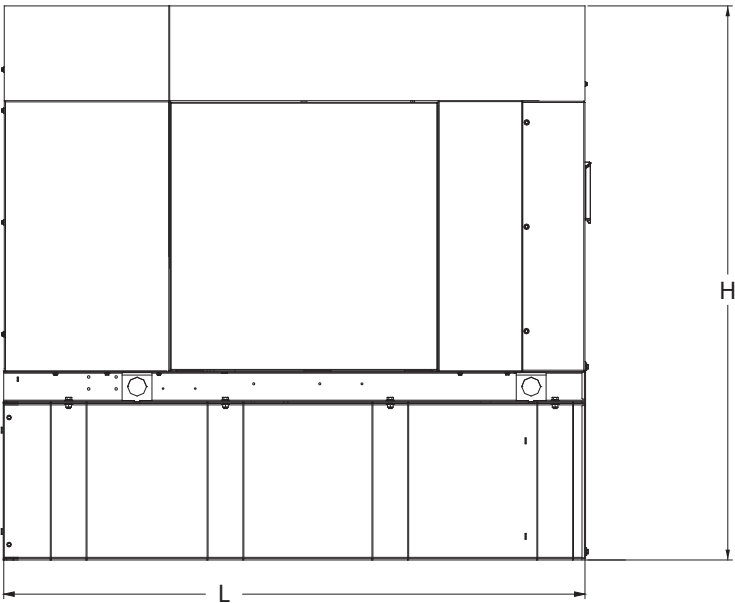
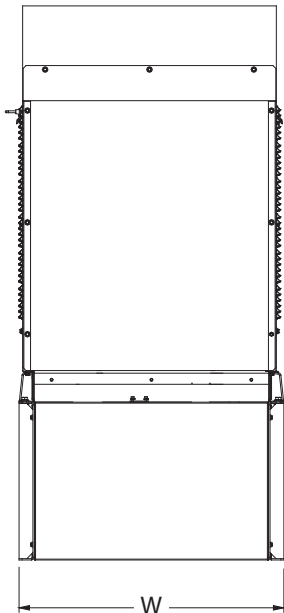
		Standby
Rated Engine Speed	rpm	1,800

EXHAUST

		Standby
Exhaust Flow (Rated Output)	ft³/min (m³/min)	296.6 (8.4)
Exhaust Temp (Rated Output - Post Silencer)	°F (°C)	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 0187500SSB

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

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

with fuel tank
103.4" 35" x 91.7"

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

ABOUT

GET DATA

PRINT

FIND LOCATION

BASEMAPS >

MAP LAYERS >

- ☒ Wetlands 1 2
- ☒ Riparian 1 2
- ☐ Riparian Mapping Areas 1 2
- ☒ Data Source 1 2
 - ☐ Source Type
 - ☐ Image Scale
 - ☐ Image Year
- ☐ Areas of Interest 2
- ☐ FWS Managed Lands 1 2
- ☐ Historic Wetland Data 1 2

Measure

Feet

Measurement Result

1,297.7 Feet

1:4,514
41,692 | -73.058

Tower

PSS1E

PF01E

Esri, HERE, Garmin, IPC | State of Connecticut, State of Connecticut, Maxar | U.S. Fish and Wildlife Service...

POWERED BY
esri