

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

July 12, 2022

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

RE: Notice of Exempt Modification 53 Slater Street, Manchester, CT 06040

> Latitude: 41.804971 Longitude: -72.533585

T-Mobile Site#: CT11377C \_NHP

#### Dear Ms. Bachman:

T-Mobile currently maintains six (6) antennas at the 133-foot mount on the existing 155-foot monopole tower located at 53 Slater Street in Manchester. The property is owned by One Hundred Twenty-One Connecticut Ave Associates LLC and the tower is owned by Crown Castle. T-Mobile now intends to add a 48Kw generator on an existing concrete pad within the compound.

Planned Modifications:

Ground work only-Install New:

(1) GENERAC RD 48KW AC DIESEL GENERATOR – 233-gallon double walled self-contained tank with fuel sensor. Requires two (2) 12-minute run cycles bi-weekly.



The facility was approved by the Town of Manchester Planning & Zoning Commission on August 17, 1998. Please see attached

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Jay Moran, Mayor, and Gary Anderson, Director of Planning for the Town of Manchester. A copy is also being sent to the tower owner and property owner.

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

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

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

#### Sincerely,

Victoria Masse

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

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

Email: victoria@northeastsitesolutions.com



Attachments cc: Jay Moran, Mayor

41 Center Street Manchester, CT 06040

Gary Anderson, Director of Planning 41 Center Street Manchester, CT 06040

Crown Castle - Tower Owner

One Hundred Twenty-One Connecticut Ave Associates LLC – Property Owner 9 Lake Lane Ellington, CT 06029

# Exhibit A

## VOL 2013 PG 259

# TOWN OF MANCHESTER PLANNING AND ZONING COMMISSION



## CERTIFICATE OF APPROVAL OF SPECIAL EXCEPTION

Owner of record:	Raglin Associates, c/o Sullivan Tile Dist.		
Property Address:	53 Slater Street		
Applicant:	Sprint Spectrum LP		
Regulation(s) cited	Article IV, Section 19.05	<u> </u>	

#### SPECIAL EXCEPTION GRANTED:

with modifications and the condition that a caveat addressing co-location requirements be submitted for staff review and filed on the land records by the applicant prior to any construction.

- \* ALL SITE WORK APPROVED BY THIS SPECIAL EXCEPTION MUST BE COMPLETED BY AUGUST 17, 2003 (5 yrs. From approval date). FAILURE TO COMPLETE ALL WORK WITHIN THE SPECIFIED TIME PERIOD WILL RESULT IN AUTOMATIC EXPIRATION OF THE APPROVAL.
- \* THIS CERTIFICATE MUST BE RECORDED IN THE LAND RECORDS IN THE OFFICE OF THE TOWN CLERK BEFORE THE SPECIAL EXCEPTION IS LAWFULLY EFFECTIVE.

CERTIFIED:

\*DATE ADOPTED: August 17, 1998

FILE NO. S-147

Frank Caversa
Secretary

Secretary

Planning and Zoning Commission

Received for Record on

SEP 11 1998 at 2:43 PM

Joseph V. Camposeo, Town Clerk

\_6. 1998 3:17PM

PROVAL SIGNATURE

## SPRINT POS TOWN OF MANCHESTER 41 CENTER STREET - P.O. BOX 191 MANCHESTER, CT 06045-0191

CONING PERMIT	(860) 647-3052	FAX: (860) 64	7-3144	
ERTIFICATION OF ZONING	COMPLIANCE REC	UEST		
ERMIT/APPLICATION NBR: ERMIT TYPE: ZONE	99 00000638	's#	DATE APPLIED: PREPARED BY: DATE ISSUED:	PAT21
ROPERTY ADDRESS: 3 SLATER STREET			LEGAL DÉSCRIPT	CION:
ENANT: THER NAME/ADDRESS:			CONTRACTOR NAM	ie/address:
AGLIN ASSOCIATES O SULLIVAN TILE DIST RAILROAD AVE UST HAVEN CT	06516			
HER: RINT PCS	The state of the s	500		Section 2015 17 (1997) 1997 (1997)
LUATION: CUPANCY TYPE: mensions of structure SCRIPTION OF OTHER BU VDITIONS:	: 150'	Plan	s for building:	
OTNL APPROVAL:		ADDINL P	ERMITS:	
: ^			· · · · · · · · · · · · · · · · · · ·	·
	ITE DEVELOPMENT ND EQUIPMENT CA Y PZC ON 8/17/9	BINETS TO		
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nt				
IS IS TO CERTIFY TH	AT THE ABOVE ST	PATED INFO	RMATION IS A PE	RMITTED AND

ORIGINAL

INNECTICUT, UPON AUTHORIZED SIGNATURE OF THE ZONING ENFORCEMENT OFFICER.

# Exhibit B

#### **53 SLATER STREET**

**Location** 53 SLATER STREET **Mblu** 56/ 5140/ 53/ /

Acct# 514000053 Owner ONE HUNDRED TWENTY ONE

CONN-

**Assessment** \$1,690,200 **Appraisal** \$2,414,500

PID 14616 Building Count 4

#### **Current Value**

Appraisal			
Valuation Year	Improvements	Land	Total
2011	\$1,689,400	\$725,100	\$2,414,500
Assessment			
Valuation Year	Improvements	Land	Total
2011	\$1,182,600	\$507,600	\$1,690,200

#### **Owner of Record**

**Owner** ONE HUNDRED TWENTY ONE CONN- **Sale Price** \$1,180,000

ECTICUT AVENUE ASSOCIATES LLC Certificate

 Address
 9 LAKE LANE
 Book & Page
 2683/224

 ELLINGTON, CT 06029
 Sale Date
 07/17/2003

Instrument 33

#### **Ownership History**

	Owners	ship History			
Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date
ONE HUNDRED TWENTY ONE CONN-	\$1,180,000	С	2683/ 224	33	07/17/2003
RAGLIN ASSOCIATES LLC	\$0		2132/ 338		12/02/1999

#### **Building Information**

#### Building 1 : Section 1

 Year Built:
 1987

 Living Area:
 6333

 Replacement Cost:
 \$474,167

Replacement Cost

**Less Depreciation:** \$265,500

Building Attributes		
Field Description		
STYLE	Service Shop	
MODEL	Ind/Comm	

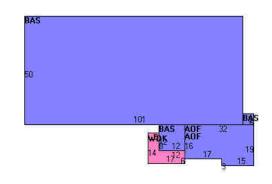
#### **Building Photo**

Grade	Average
Stories:	1
Occupancy	4
Exterior Wall 1	Pre-finsh Metl
Exterior Wall 2	Brick Veneer
Roof Structure	Gable/Hip
Roof Cover	Enam Mtl Shing
Interior Wall 1	Wall Brd/Wood
Interior Wall 2	Minim/Masonry
Interior Floor 1	Concr-Finished
Interior Floor 2	
Heating Fuel	Gas
Heating Type	Forced Air-Duc
AC Type	Partial
Bldg Use	Industrial 96
Total Rooms	
Total Bedrms	00
Total Baths	0
1st Floor Use:	300
Heat/AC	Heat/AC Packag
Frame Type	Steel
Baths/Plumbing	Average
Ceiling/Wall	Ceil & Min WI
Rooms/Prtns	Average
Wall Height	14
% Comn Wall	0



(http://images.vgsi.com/photos/ManchesterCTPhotos/ $\00\03\43/03.jpg$ )

#### **Building Layout**



Building Sub-Areas (sq ft) <u>Legen</u>			
Code	Description	Gross Area	Living Area
BAS	First Floor	5219	5219
AOF	Office, (Average)	1114	1114
WDK	Wood Deck	142	0
		6475	6333

**Building 2 : Section 1** 

 Year Built:
 1987

 Living Area:
 24306

 Replacement Cost:
 \$1,082,175

**Replacement Cost** 

**Less Depreciation:** \$606,000

<b>Building Attributes: Bldg 2 of 4</b>		
Field	Description	
STYLE	Pre-Eng Garage	
MODEL	Ind/Comm	
Grade	Average	
Stories:	1	
Occupancy	4	
Exterior Wall 1	Pre-finsh Metl	

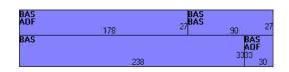
#### **Building Photo**

Exterior Wall 2  Roof Structure  Roof Cover  Enam Mtl Shing  Interior Wall 1  Interior Wall 2  Interior Floor 1  Interior Floor 2  Heating Fuel  Heating Type  AC Type  Bldg Use  Total Rooms  Total Baths  O  1st Floor Use:  Heat/AC  Heat/AC  Frame Type  Baths/Plumbing  Ceilling/Wall  Rooms/Prtns  Wall Height  Parkial  Brick Veneer  Bank Veneer  Gable/Hip  Minim/Masonry  Interior Floor  Concr-Finished  Concr-Finished  Forced Air-Duc  Ach Type  Partial  Industrial 96  Total Rooms  O  Total Rooms  Total Baths  O  Steel  Baths/Plumbing  Average  Wall Height  22  % Comn Wall		
Roof Cover Enam Mtl Shing Interior Wall 1 Minim/Masonry Interior Wall 2 Interior Floor 1 Concr-Finished Interior Floor 2 Heating Fuel Gas Heating Type Forced Air-Duc AC Type Partial Bldg Use Industrial 96 Total Rooms Total Bedrms 00 Total Baths 0 1st Floor Use: 300 Heat/AC Heat AC Split Frame Type Steel Baths/Plumbing Average Ceiling/Wall Rooms/Prtns Average Wall Height 22	Exterior Wall 2	Brick Veneer
Interior Wall 1  Interior Wall 2  Interior Floor 1  Interior Floor 2  Heating Fuel  Heating Type  AC Type  Bldg Use  Total Rooms  Total Bedrms  Total Baths  0  1st Floor Use:  Heat/AC  Heat AC Split  Frame Type  Baths/Plumbing  Ceiling/Wall  Rooms/Prtns  Wall Height  Minim/Masonry  Interior Blow  Forced Air-Duc  Assumed Air-Duc  Arrada  Bath Judge  Forced Air-Duc  Alim Judge  Forced Air-Duc  Assumed Air-Duc  Act Type  Steel  Baths/Plumbing  Average  Vall Height	Roof Structure	Gable/Hip
Interior Wall 2  Interior Floor 1  Concr-Finished  Interior Floor 2  Heating Fuel  Gas  Heating Type  Forced Air-Duc  AC Type  Partial  Bldg Use  Industrial 96  Total Rooms  Total Bedrms  00  Total Baths  0  1st Floor Use:  300  Heat/AC  Heat AC Split  Frame Type  Baths/Plumbing  Average  Ceiling/Wall  Rooms/Prtns  Wall Height  Concr-Finished  Concr-Finished  Industrial 96  Forced Air-Duc  Partial  Industrial 96  Forced Air-Duc  Partial  Industrial 96  Fotal Rooms  Undustrial 96  Susp Ceil & WI  Average	Roof Cover	Enam Mtl Shing
Interior Floor 1  Concr-Finished  Interior Floor 2  Heating Fuel  Gas  Heating Type  Forced Air-Duc  AC Type  Partial  Bldg Use  Industrial 96  Total Rooms  Total Bedrms  00  Total Baths  0  1st Floor Use:  300  Heat/AC  Heat AC Split  Frame Type  Baths/Plumbing  Average  Ceiling/Wall  Rooms/Prtns  Wall Height  Cas  Concr-Finished  Concr-Finished  Concr-Finished  Cas  Leas  Ass  Ass  Ass  Ass  Concr-Finished  Cas  Ass  Average  Susp Ceil & WI  Average  Wall Height  22	Interior Wall 1	Minim/Masonry
Interior Floor 2  Heating Fuel Gas  Heating Type Forced Air-Duc  AC Type Partial  Bldg Use Industrial 96  Total Rooms  Total Bedrms 00  Total Baths 0  1st Floor Use: 300  Heat/AC Heat AC Split  Frame Type Steel  Baths/Plumbing Average  Ceiling/Wall Susp Ceil & WI  Rooms/Prtns Average  Wall Height 22	Interior Wall 2	
Heating Fuel Gas  Heating Type Forced Air-Duc  AC Type Partial  Bldg Use Industrial 96  Total Rooms  Total Bedrms 00  Total Baths 0  1st Floor Use: 300  Heat/AC Heat AC Split  Frame Type Steel  Baths/Plumbing Average  Ceiling/Wall Susp Ceil & WI  Rooms/Prtns Average  Wall Height 22	Interior Floor 1	Concr-Finished
Heating Type Forced Air-Duc  AC Type Partial  Bldg Use Industrial 96  Total Rooms  Total Bedrms 00  Total Baths 0  1st Floor Use: 300  Heat/AC Heat AC Split  Frame Type Steel  Baths/Plumbing Average  Ceiling/Wall Susp Ceil & WI  Rooms/Prtns Average  Wall Height 22	Interior Floor 2	
AC Type Partial  Bldg Use Industrial 96  Total Rooms  Total Bedrms 00  Total Baths 0  1st Floor Use: 300  Heat/AC Heat AC Split  Frame Type Steel  Baths/Plumbing Average  Ceiling/Wall Susp Ceil & WI  Rooms/Prtns Average  Wall Height 22	Heating Fuel	Gas
Bldg Use Industrial 96  Total Rooms  Total Bedrms 00  Total Baths 0  1st Floor Use: 300  Heat/AC Heat AC Split  Frame Type Steel  Baths/Plumbing Average  Ceiling/Wall Susp Ceil & WI  Rooms/Prtns Average  Wall Height 22	Heating Type	Forced Air-Duc
Total Rooms  Total Bedrms  00  Total Baths  0  1st Floor Use:  Heat/AC  Heat AC Split  Frame Type  Steel  Baths/Plumbing  Average  Ceiling/Wall  Rooms/Prtns  Average  Wall Height  22	AC Type	Partial
Total Bedrms  00  Total Baths  0  1st Floor Use:  300  Heat/AC  Heat AC Split  Frame Type  Steel  Baths/Plumbing  Average  Ceiling/Wall  Rooms/Prtns  Average  Wall Height  22	Bldg Use	Industrial 96
Total Baths 0  1st Floor Use: 300  Heat/AC Heat AC Split  Frame Type Steel  Baths/Plumbing Average  Ceiling/Wall Susp Ceil & WI  Rooms/Prtns Average  Wall Height 22	Total Rooms	
1st Floor Use: 300  Heat/AC Heat AC Split  Frame Type Steel  Baths/Plumbing Average  Ceiling/Wall Susp Ceil & WI  Rooms/Prtns Average  Wall Height 22	Total Bedrms	00
Heat/AC Heat AC Split  Frame Type Steel  Baths/Plumbing Average  Ceiling/Wall Susp Ceil & WI  Rooms/Prtns Average  Wall Height 22	Total Baths	0
Frame Type Steel  Baths/Plumbing Average  Ceiling/Wall Susp Ceil & WI  Rooms/Prtns Average  Wall Height 22	1st Floor Use:	300
Baths/Plumbing Average  Ceiling/Wall Susp Ceil & WI  Rooms/Prtns Average  Wall Height 22	Heat/AC	Heat AC Split
Ceiling/Wall Susp Ceil & WI  Rooms/Prtns Average  Wall Height 22	Frame Type	Steel
Rooms/Prtns Average Wall Height 22	Baths/Plumbing	Average
Wall Height 22	Ceiling/Wall	Susp Ceil & WI
	Rooms/Prtns	Average
% Comn Wall 0	Wall Height	22
	% Comn Wall	0



(http://images.vgsi.com/photos/ManchesterCTPhotos/ $\00\03\43/04.jpg$ )

#### **Building Layout**



Building Sub-Areas (sq ft) <u>Legen</u>			
Code	Description	Gross Area	Living Area
BAS	First Floor	18510	18510
AOF	Office, (Average)	5796	5796
		24306	24306

#### **Building 3: Section 1**

 Year Built:
 1987

 Living Area:
 10320

 Replacement Cost:
 \$433,337

Replacement Cost

**Less Depreciation:** \$242,700

Less Depreciation: \$242,700				
Building Att	Building Attributes : Bldg 3 of 4			
Field Description				
STYLE	Pre-Eng Garage			
MODEL	Ind/Comm			
Grade	Average			
Stories:	1			
Occupancy	12			
Exterior Wall 1	Pre-finsh Metl			
Exterior Wall 2	Brick Veneer			

#### **Building Photo**



(http://images.vgsi.com/photos/ManchesterCTPhotos/ $\00\03\43/05.jpg$ )

Roof Structure	Gable/Hip
Roof Cover	Enam Mtl Shing
Interior Wall 1	Minim/Masonry
Interior Wall 2	
Interior Floor 1	Concr-Finished
Interior Floor 2	
Heating Fuel	Electric
Heating Type	Hot Air-no Duc
AC Type	None
Bldg Use	Industrial 96
Total Rooms	
Total Bedrms	00
Total Baths	0
1st Floor Use:	300
Heat/AC	None
Frame Type	Steel
Baths/Plumbing	Average
Ceiling/Wall	Ceil & Min WI
Rooms/Prtns	Average
Wall Height	18
% Comn Wall	0

#### **Building Layout**



ı	<u>Legend</u>			
Code	Description	Gross Area	Living Area	
BAS	First Floor	10320	10320	
		10320	10320	

#### **Building 4 : Section 1**

 Year Built:
 2008

 Living Area:
 12000

 Replacement Cost:
 \$479,640

**Replacement Cost** 

**Less Depreciation:** \$465,300

Building Attributes : Bldg 4 of 4				
Field	Description			
STYLE	Pre-Eng Garage			
MODEL	Ind/Comm			
Grade	Average			
Stories:	1			
Occupancy	8			
Exterior Wall 1	Pre-finsh Metl			
Exterior Wall 2	Concr/Cinder			
Roof Structure	Gable/Hip			
Roof Cover	Enam Mtl Shing			
Interior Wall 1	Minim/Masonry			
Interior Wall 2				
Interior Floor 1	Concr-Finished			
Interior Floor 2				
Heating Fuel	Gas			

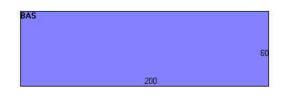
#### **Building Photo**



 $\label{lem:mages.vgsi.com/photos/ManchesterCTPhotos/} $$ \aligned $$ (43/06.jpg) $$$ 

#### **Building Layout**

Heating Type	Hot Air-no Duc
AC Type	None
Bldg Use	Industrial 96
Total Rooms	00
Total Bedrms	00
Total Baths	0
1st Floor Use:	
Heat/AC	None
Frame Type	Steel
Baths/Plumbing	Average
Ceiling/Wall	Ceil & Min WI
Rooms/Prtns	Average
Wall Height	18
% Comn Wall	0



	<u>Legend</u>			
Code Description		Gross Area	Living Area	
BAS	First Floor	12000	12000	
		12000	12000	

#### **Extra Features**

Extra Features <u>I</u>					<u>Legend</u>
Code Description		Description	Size	Value	Bldg #
	A/C	Partial AC	5796 S.F.	\$6,500	2

#### Land

Land Use		Land Line Valua	Land Line Valuation	
Use Code	300	Size (Acres)	4.96	
Description	Industrial 96	Frontage	0	
Zone	IND	Depth	0	
Neighborhood	5000	Assessed Value	\$507,600	
Alt Land Appr	No	Appraised Value	\$725,100	
Category				

#### Outbuildings

	Outbuildings <u>Le</u>					
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
PAV1	Paving Asphalt			13350 S.F.	\$19,200	4
PAV1	Paving Asphalt			37000 S.F.	\$17,800	1
FN3	Fence 6' Chain			300 L.F.	\$2,000	1
PAV2	Paving Concrete			96 S.F.	\$300	4
SHDT	Telephone Shed			319 S.F.	\$31,600	1
FN4	Fence 8' Chain			54 L.F.	\$900	1
SHDT	Telephone Shed			319 S.F.	\$31,600	1

#### **Valuation History**

Δnnraisal
Αργιαίσαι

Valuation Year	Valuation Year Improvements		Total	
2010	\$1,766,600	\$760,300	\$2,526,900	
2005	\$871,200	\$540,700	\$1,411,900	
2000	\$1,082,500	\$540,700	\$1,623,200	

Assessment						
Valuation Year	Improvements	Land	Total			
2010	\$1,236,700	\$532,300	\$1,769,000			
2005	\$609,900	\$378,500	\$988,400			
2000	\$757,800	\$378,500	\$1,136,300			

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# Exhibit C

# T--Mobile

## T-MOBILE NORTHEAST LLC

## **UPGRADE:**

GENERATOR ADD

# **LOCATION MAP**

#### APPLICABLE CODES/REFERENCE DOCUMENTS

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

2015 IMC MECHANICAL ELECTRICAL. 2015 NEC



#### **GENERAL NOTES**

OCCUPANCY CLASSIFICATION:

TYPE OF CONSTRUCTION:

A.D.A. COMPLIANCE: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION

PLUMBING REQUIREMENTS: FACILITY HAS NO SANITARY OR POTABLE WATER.

## **SITE NAME:**

SPRINT MANCHESTER/SLATER

## **SITE NUMBER:**

CT11377C

## **SITE ADDRESS:**

53 SLATER STREET MANCHESTER. CT 06040

#### SCOPE OF WORK

#### SCOPE OF WORK:

- INSTALL (1) NEW 48KW GENERATORINSTALL (1) NEW ATS

PROPERTY OWNER

## **APPROVALS** T-MOBILE CONSTRUCTION MANAGER T-MOBILE RF ENGINEER LAND USE PLANNER NETWORK OPERATION

CONTRACTOR

## PROJECT INFORMATION

-72° 32' 1.00'' W

14616

53 SLATER STREET MANCHESTER, CT 06040 SITE ADDRESS:

COUNTY HARTFORD CONTY

JURISDICTION: CONNECTICUT SITING COUNCIL

LATITUDE: 41° 48' 18.00'' N

PARCEL/APN #

LONGITUDE:

ZONING INDUSTRIAL

GROUND ELEVATION: 205 FT

TOWER TYPE: MONOPOLE

TOWER HEIGHT 155'-0'

PROPERTY OWNER: ONE HUNDRED TWENTY ONE CONNECTICUT AVENUE ASSOCIATES LLC 9 LAKE LANE

ELLINGTON, CT 06029

APPLICANT:

T-MOBILE 35 GRIFFIN ROAD BLOOMFIELD, CT 06002

TRYLON TSF 1825 W. WALNUT HILL LANE, SUITE 302 ENGINEER:

IRVING, TX 75038 MIKE MOORE

CONTACT: MIKE.MOORE@TRYLON.COM FMAII:

PROJECT MANAGER: NORTHEAST SITE SOLUTIONS

420 MAIN STREET, BLDG 4 STURBRIDGE, MA 01566

CONTACT:

EPROULX@NORTHEASTSITESOLUTIONS.COM EMAIL:

	SHEET INDEX	`
SHEET #	DESCRIPTION	REVISION #
T-1	TITLE SHEET	0
T-2	GENERAL NOTES	0
C-1.1	OVERALL SITE PLAN	0
C-1.2	EXISTING PLAN	0
C-1.3	PROPOSED PLAN	0
C-2	GENERATOR SPECS	0
C-4	CONCRETE PAD SPEC	0
E-1	AC PANEL SCHEDULES & ONE LINE DIAGRAM	0
G-1	GROUNDING DETAILS	0

# Γ-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD BLOOMFIELD, CT 06002



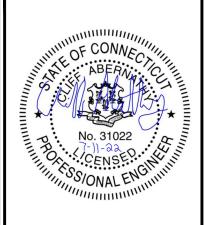


T-MOBILE SITE NUMBER: CTNH513A

53 SLATER STREET MANCHESTER, CT 06040

EXISTING 155'-0' MONOPOLE

ISSUED FOR:					
REV	DATE	DRWN	DESCRIPTION	DES./QA	
Α	06/22/2022	SHA	PRELIMINARY		
0	07/08/2022	RC	ISSUE FOR CONSTRUCTION		



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SHEET NUMBER:



A. PURPOSE AND INTENT

EXPLANATORY AND SUPPLEMENTARY, HOWEVER, SHOULD ANYTHING BE SHOWN, INDICATED, OR SPECIFIED ON ONE AND NOT THE OTHER, IT SHOWN IN BOTH, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.

2. THE INTENTION OF THE DOCUMENT IS TO INCLUDE ALL LABOR.

AND COMPLETION OF THE WORK AS STIPULATED IN THE CONTRACT.

OR DOING ANY WORK, NO EXTRA CHARGE OR COMPENSATION WILL BE ALLOWED DUE TO DIFFERENCES BETWEEN ACTUAL DIMENSIONS OR

DIFFICULTIES OR CONDITIONS THAT MAY BE ENCOUNTERED, OR OF ANY WILL BE ACCEPTED AS AN EXCUSE FOR ANY FAILURE OF OMISSION ON THE PART OF THE CONTRACTOR TO FULFILL EVERY DETAIL OF ALL THE

CAUSED BY EMPLOYEES AT THE COMPLETION OF THE WORK, REMOVE ALL WASTE AND NON-CONSTRUCTION MATERIAL INCLUDING ALL CONTRACT

AUTHORITIES WITH JURISDICTION OVER THE SALTIER. THIS RESPONSIBILITY IS IN EFFECT REGARDLESS OF WEATHER THE LAW, ORDINANCE,

#### A LICENSING

FOR JURISDICTIONS THAT LICENSE INDIVIDUAL TRADES, THE TRADESMAN OR

FOLLOW ALL APPLICABLE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATIONS AND STATE LAWS BASED IN THE FEDERAL OCCUPATION SAFETY AND HEALTH ACT. THESE REGULATIONS INCLUDE, BUT ARE NOT LIMITED TO, REGULATIONS DEALING WITH TOWER CONSTRUCTION AND SAFETY, EXCAVATION AND TRENCHING, AND WORK IN CONFINED SPACES. ENSURE THAT EMPLOYEES AND SUBCONTRACTORS WEAR HARD HATS AT ALL TIMES DURING CONSTRUCTION.

#### A. BUILDING PERMITS

1. CONTRACTOR WILL SUBMIT CONSTRUCTION DOCUMENTS TO THE JURISDICTIONAL AUTHORITY FOR PLAN CHECK AND REVIEW. CONTRACTOR WILL SUBMIT LICENSING AND WORKMAN'S COMPENSATION INFORMATION TO THE JURISDICTION AS REQUIRED TO OBTAIN THE BUILDING PERMIT, CONTRACTOR SHALL COORDINATE AND SCHEDULE REQUIRED INSPECTIONS AND POST REQUIRED PERMITS AT THE JOB SITE COMPLY WITH SPECIFIC PROJECT RELATED REQUESTS AND SUGGESTIONS MADE BY BUILDING THAT MAY BE BEYOND THE SCOPE OF THE CONTRACT OR DEVIATE FROM THE CONSTRUCTION DOCUMENT, T-MOBILE WILL REIMBURSE THE

CONTRACTOR WILL SUBMIT ALL ZONING AND CONDITIONAL USE HOURS OF WORK, ACCESS LIMITATIONS, ETC. THE CONSTRUCTION MANAGER WILL INFORM THE CONTRACTOR OF THESE REQUIREMENTS AT THE

#### A TOWER SECURITY

PERMANENTLY WITHIN 24 HOURS OF ERECTION. DO NOT ALLOW THE GATE ACCESSING THE TOWER AREA TO REMAIN OPEN OR UNATTENDED ANY TIME

2. THE CONTRACTOR IS TO MAINTAIN ADEQUATE DRAINAGE AT ALL TIMES. DO NOT ALLOW WATER TO STAND OR POND. ANY DAMAGE TO STRUCTURES OR WORK ON THE SITE CAUSED BY INADEQUATE MAINTENANCE OF DRAINAGE PROVISIONS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND ANY COST ASSOCIATED WITH REPAIRS FOR SUCH DAMAGE WILL BE AT THE CONTRACTOR'S EXPENSE.

3. ALL WASTE MATERIAL SHALL BE PROPERLY DISPOSED OF OFF-SITE OR AS DIRECTED BY CONSTRUCTION MANAGER AND IN ACCORDANCE WITH

1. PROTECT AND SECURE LIVESTOCK. MAINTAIN AND SECURE EXISTING

A SCOPE OF WORK INCLUDES

MATERIALS WHICH MIGHT BE DAMAGED BY CONSTRUCTION ACTIVITIES

MANAGER OR AS NOTED IN CONSTRUCTION DOCUMENTS)

1. MATERIALS USED FOR TREE PROTECTION, EROSION CONTROL.

SUPPLY OF ADDITIONAL MATERIALS FOR OFFSITE AS REQUIRED. 5. REMOVAL AND LEGDK DISPOSAL OF EXCAVATED MATERIAL AS

WALKWAYS WILL OBTAIN A 95% COMPACTION AT A MINIMUM DRY DENSITY AS DETERMINED BY ASTM 0-1557 OR WITH PLUS OR MINUS 3% OF THE

LAWNS, UNPAVED AREAS AND WALKS PLUS OR MINUS 1

B. UNDER PAVEMENTS PLUS OR MINUS  $\frac{1}{2}$  INCH. 3. GRADING TOLERANCES FOR FILL UNDER CONCRETE APPLICATIONS

A. PLUS OR MINUS  $\frac{1}{2}$  INCH MEASURED WITH 10 FOOT STRAIGHT

MANAGER OR AS NOTED IN CONSTRUCTION DOCUMENTS)

SUB-BASE MATERIAL: GRADED MIXTURE OF NATURAL OR CRUSHED 2. WASHED MATERIAL, EVENLY GRADED MIXTURE OF CRUSHED STONE

OR GRAVEL WITH 95% PASSING A 1-1/2 INCH SIEVE 3. GRADING MATERIAL WILL CONSIST OF SATISFACTORY NATIVE OR IMPORTED SOIL MATERIALS FREE OF CLAY, ROCK OR GRAVEL NOT LARGER THAN 2 INCHES IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS

4. GRAVEL MATERIAL: EVENLY GRADED MIXTURE OF CRUSHED STONE

. REMOVE ALL VEGETATION AND MATERIALS AS REQUIRED. REMOVE

THAT WILL UNDERLAY GRAVEL, PAVEMENT, NEW STRUCTURES OR EMBANKMENTS. STOCKPILE STRIPPING ON—SITE FOR RE—USE AND FINAL

CONSTRUCT EMBANKMENT FROM ON-SITE EXCAVATION MATERIAL WHEN JITABLE. USE IMPORTED BACKFILL ONLY AFTER AVAILABLE ON-SITE

DEPTH. THE FULL WIDTH OF THE CROSS SECTION SHALL BE BROUGHT

THE LAYERS MAY BE REQUIRED. SUCH OPERATIONS SHALL BE INCLUDED IN THE APPROPRIATE BID ITEM. SHOULD THE MATERIAL BE TOO WET TO PERMIT PROPER COMPACTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UTILIZE MATERIAL WITH AN ACCEPTABLE MOISTURE CONTENT

PLACE EMBANKMENT MATERIAL UPON FROZEN MATERIAL.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF EMBANKMENTS AND THE REPLACEMENT OF ANY PORTION WHICH HAS

ROUTE EQUIPMENT BOTH LOADED AND EMPTY, OVER THE FULL WIDTH OF THE EMBANKMENT TO ENSURE UNIFORMITY OF MATERIAL PLACEMENT. 9. COMPACT EMBANKMENT UNDERLYING NEW GRAVEL PAVING, FLOOR DENSITY AS DETERMINED BY ASTM 0-1557 OR WITHIN PLUS OR MINUS 3% OF OPTIMUM MOISTURE CONTENT. COMPACT NON-STRUCTURAL AREA

4. COMPACT AREAS OF UNDERLYING NEW GRAVEL, PAVING, FLOOR SLABS AND STRUCTURES TO BE AT 95% COMPACTION AT A MAXIMUM DRY DENSITY AS DETERMINED BY THE ASTM 0-1557 OR WITHIN PLUS OR CONSTRUCT FINISH SURFACE OF SITE GRADING AREAS WITHIN 1 INCH

1. SHAPE TOP OF SUBGRADE TO THE LINES AND GRADES SHOWN ON

COMPACT THE TOP 12 INCHES OF SUBGRADE TO A 95% COMPACTION AT A MAXIMUM DRY DENSITY AS DETERMINED BY ASTM 0-1557 OR WITHIN PLUS OR MINUS 3% OF THE OPTIMUM MOISTURE CONTENT.

5. CONSTRUCT TOP OF SUBGRADE WITHIN 1 INCH OF ESTABLISHED

ALL JOINTS TO A MINIMUM OF 36 INCHES.

SPREAD GRAVEL AND RAKE TO OBTAIN A UNIFORM SURFACE AREA.

AND/OR REQUIRED WITHIN THE CONSTRUCTION DOCUMENTS OR AS

#### M CONCRETE FORM WORK

RECEIVE A  $\frac{3}{4}$  INCH BY  $\frac{3}{4}$  INCH 45 DEGREE CHAMFER. OTHER EXPOSED EDGES SHALL RECEIVE A TOOLED RADIUS FINISH.

4. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.

SHEETS AND SPECIFICATIONS AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS TO ENSURE THAT WORK

4. GENERAL NOTES

REMOVE AND DISPOSE OFF SITE ALL RUBBISH, WASTE MATERIAL LITTER AND ALL FOREIGN SUBSTANCES. REMOVE PETROCHEMICAL

THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURF AROVE WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SHALL BE HIS RESPONSIBILITY TO PROCEED WITH GREAT 48 HOURS BEFORE YOU DIG, DRILL OR BLAST CALL LOCAL

WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN OF THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED APPROVAL OF THE OWNER

OR THE OWNER'S REPRESENTATIVE.
THE CONTRACTOR IS INSTRUCTED TO COOPERATE WITH ANY AND ALL OTHER CONTRACTORS PERFORMING WORK ON THE SITE

THE CONTRACTOR SHALL COMPLY WITH ALL REQUIRED PERMITS.

11. ALL UTILITY WORK INVOLVING CONNECTIONS TO EXISTING SYSTEMS SHALL BE COORDINATED WITH THE OWNER OR OWNER'S

12. MAINTAIN FLOW FOR ALL EXISTING UTILITIES
13. ALL SITE FILL SHALL MEET SELECTED FILL STANDARDS AS

14. CONTRACTOR TO GRADE ALL AREAS OF THE SITE TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE BUILDING OR EQUIPMENT PAD

AND REGRADING ROADWAY AND ANY DISTURBED AREAS FOLLOWING

17. WATER AND SEWER SERVICES ARE NOT REQUIRED FOR THE

18. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIAL

19. ELECTRICAL DRAWINGS HAVE BEEN REVIEWED AND SEALED FOR

#### SITE LEGENDS

----- CENTERLINE

----- GROUND CONDUCTOR ----- A----- COAXIAL CABLE ----X---- CHAIN LINK FENCING ----- E ------ POWER RUN ——F/P —— FIBER/POWER RUN T/E- POWER/TELCO RUN ---- GROUNDING CONDUCTOR ----- SPARK ZONE AND WORKING CLEARANCE

#### SYMBOLS & MATERIAL



DETAIL REFERENCE

FLEVATION REFERENCE



SECTION REFERENCE

T · · Mobile · · · T-MOBILE NORTHEAST LLC

> 35 GRIFFIN ROAD BLOOMFIELD, CT 06002





IRVING, TEXAS 75038

T-MOBILE SITE NUMBER: CTNH513A

53 SLATER STREET MANCHESTER, CT 06040

EXISTING 155'-0' MONOPOLE

ISSUED FOR:				
REV	DATE	DRWN	DESCRIPTION	DES./Q
Α	06/22/2022	SHA	PRELIMINARY	
0	07/08/2022	RC	ISSUE FOR CONSTRUCTION	
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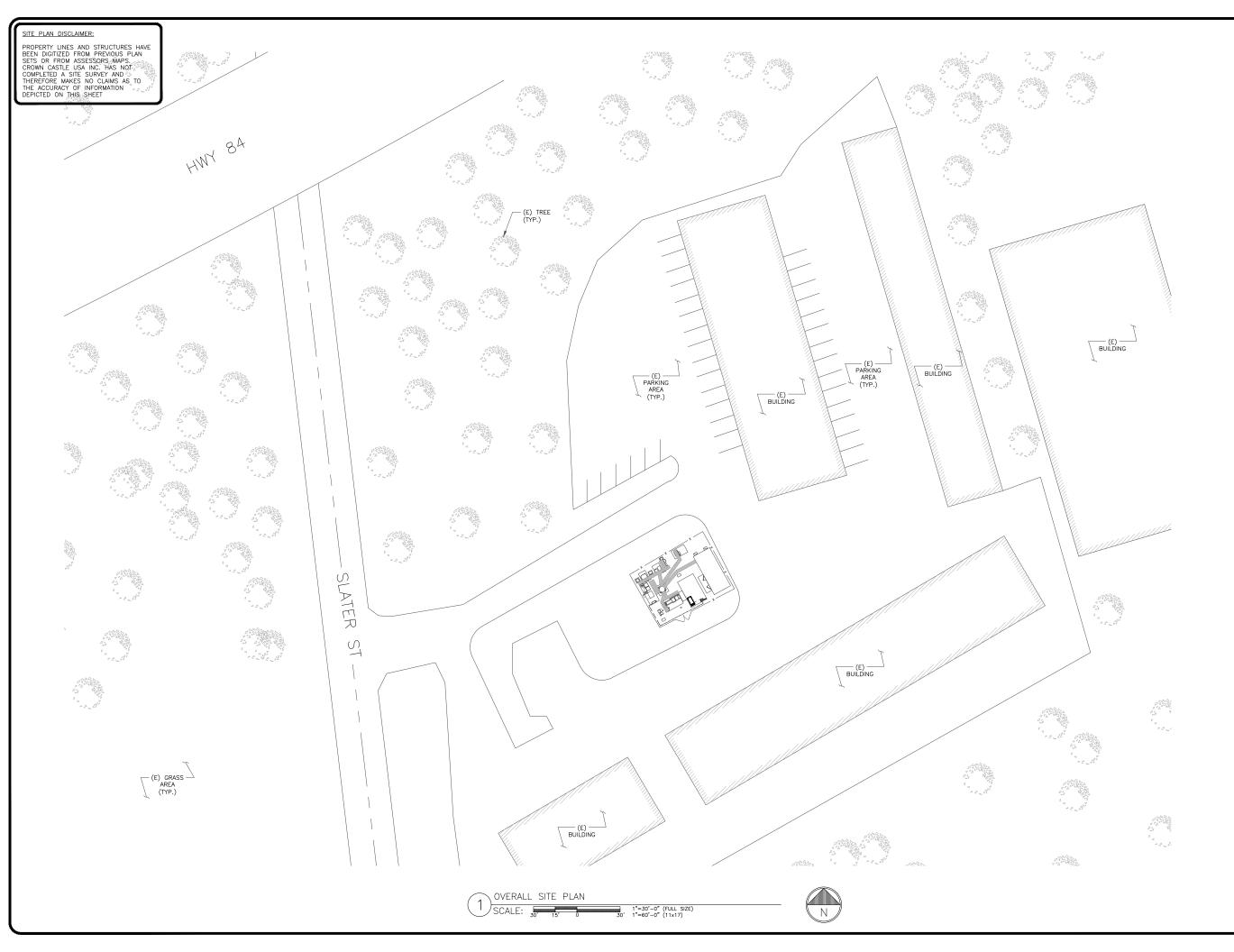


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T-2

REVISION



T--Mobile--T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD BLOOMFIELD, CT 06002



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

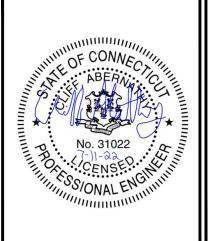


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53 SLATER STREET MANCHESTER, CT 06040

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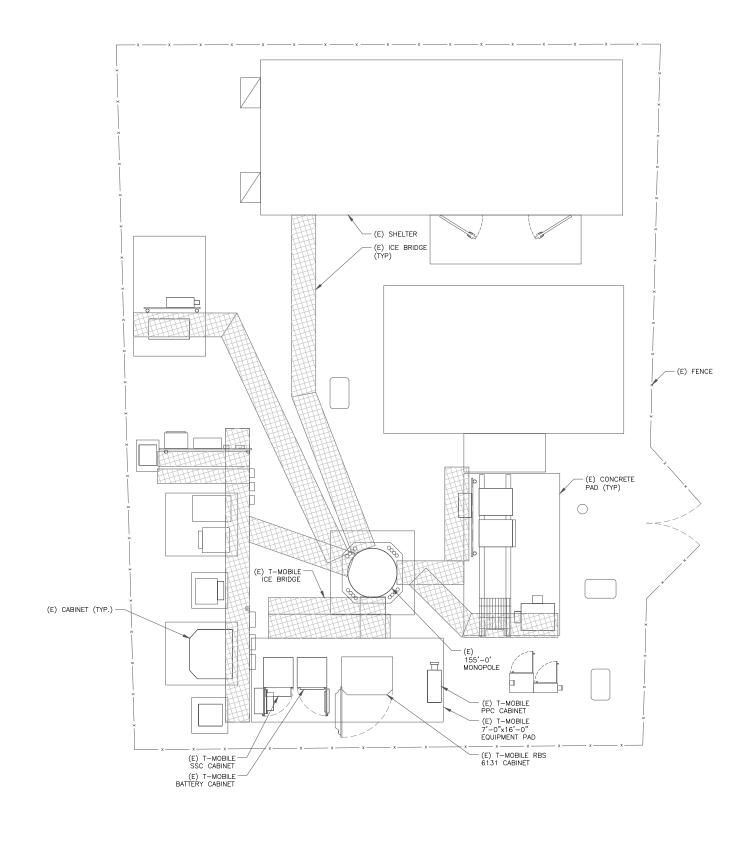


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C-1.1

REVISION:









35 GRIFFIN ROAD BLOOMFIELD, CT 06002





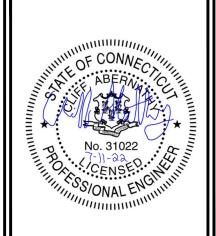
1825 W. WALNUT HILL LANE, SUITE 120 IRVING, TEXAS 75038

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53 SLATER STREET MANCHESTER, CT 06040

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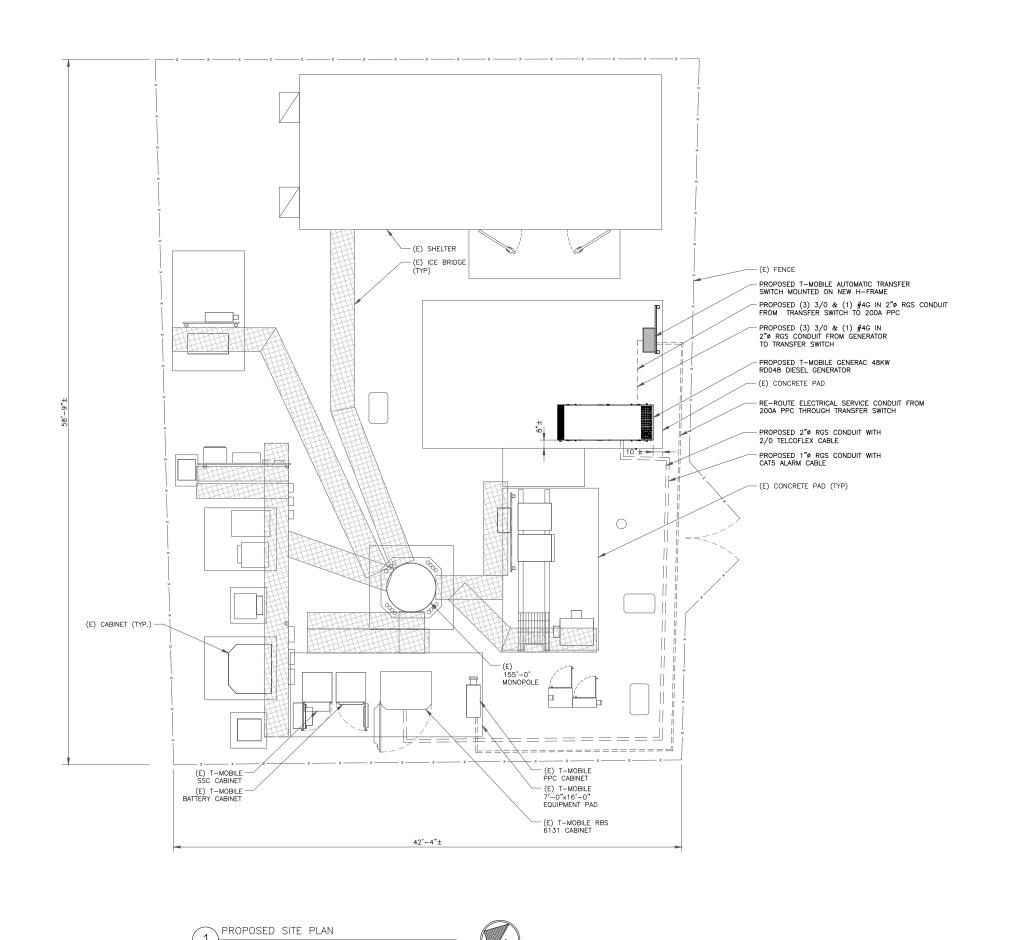
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REVISION:





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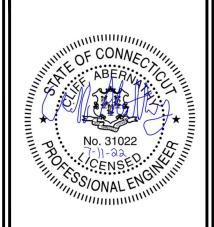


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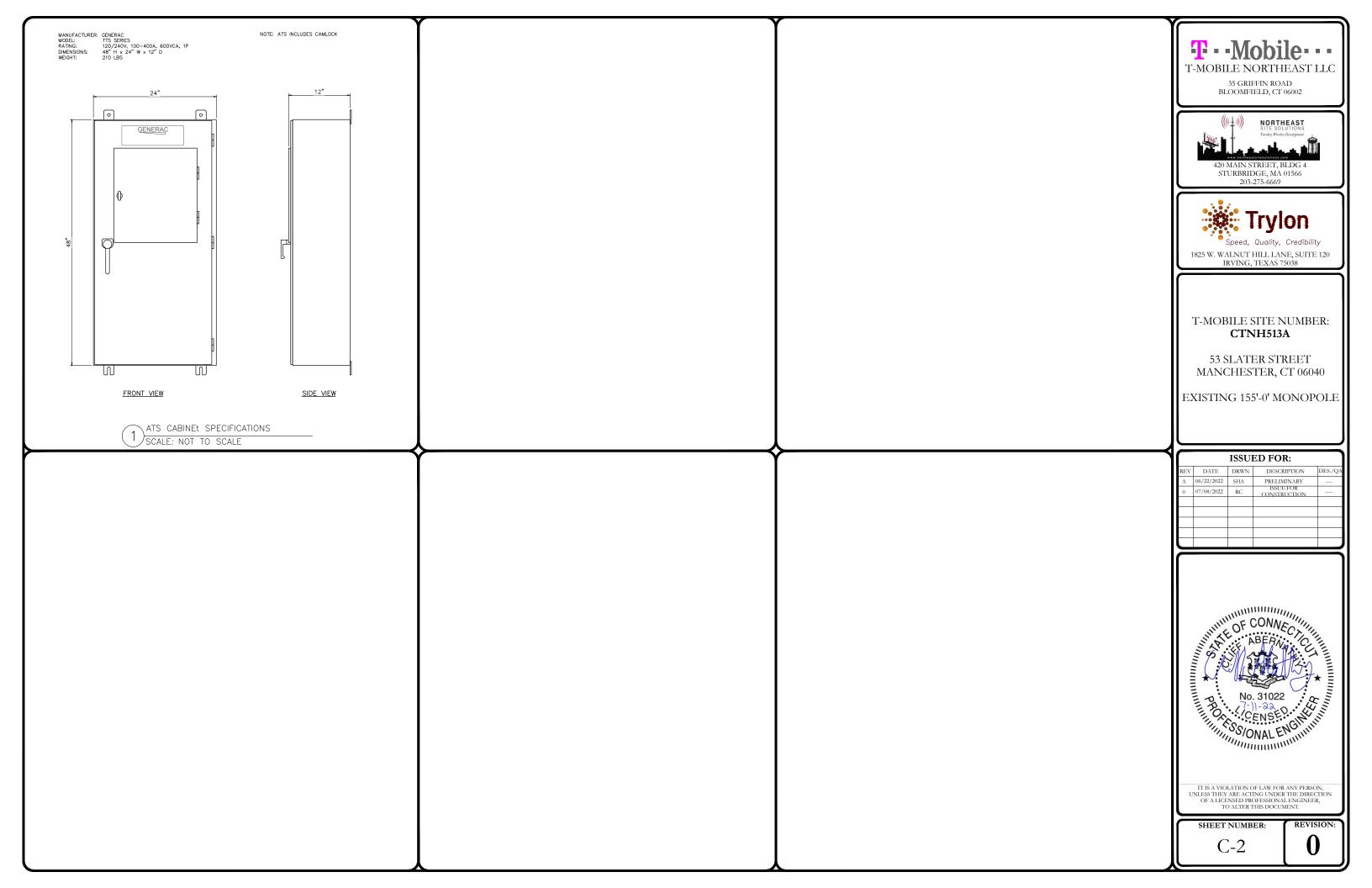
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SHEET NUMBER:

C-1.3

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REVISION:



INDUSTRIAL DIESEL GENERATOR SET

RD048 | 3.4L | 48 kW

GENERAC' INDUSTRIAL

**EPA Certified Stationary Emergency** 

Standby Power Rating 48 kW, 60 kVA, 60 Hz







#### **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





NFPA 37, 70, 99



ISO 3046, 8528, 9001



NEMA ICS1, ICS10, MG1, 250, ICS6,



ANSI/IEEE C62.41

## **Powering Ahead**

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

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

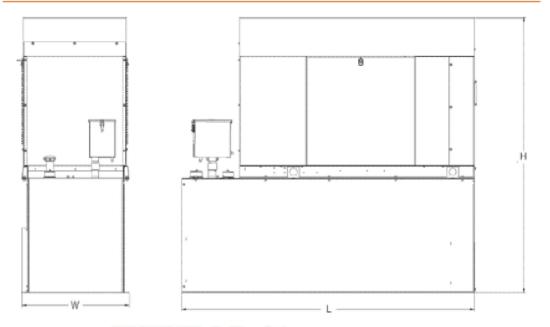
Generac's gensets utilize a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application.

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

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

RD048 | 3.4L | 48 kW INDUSTRIAL DIESEL GENERATOR SET **EPA Certified Stationary Emergency** 

#### **DIMENSIONS AND WEIGHTS\***



GENERAC INDUSTRIAL

#### **ENCLOUSED UNIT with 48hour Tank**

L x W x H in (mm)	95.4 (2,422) x 35.0 (880) x 89.3 (2,269)
Sound output in dB(A) at 23ft with generator operating at normal Load	85





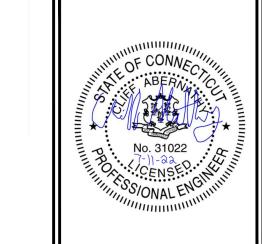


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53 SLATER STREET MANCHESTER, CT 06040

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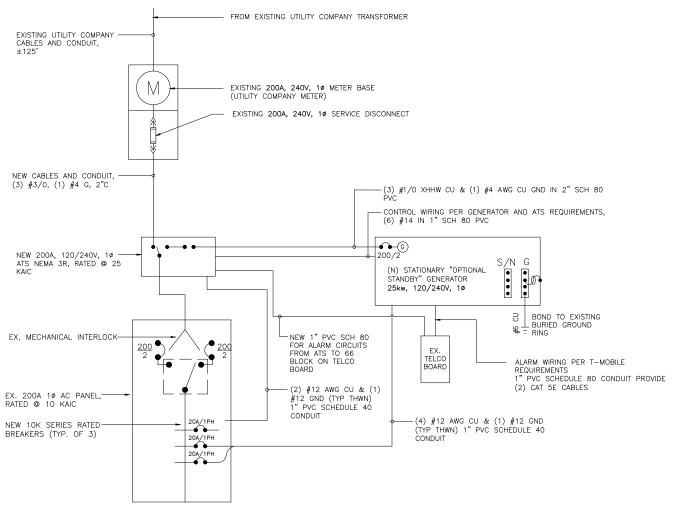
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GENERATOR SPECIFICATIONS SCALE: NOT TO SCALE

PENDING







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

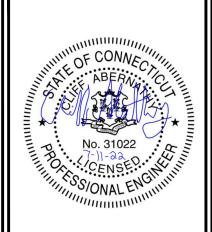


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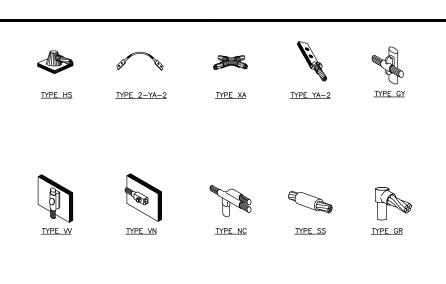
-1 **I** 

REVISION:

E-1

1) AC PANEL SCHEDULE SCALE: NOT TO SCALE

ONE LINE DIAGRAM
SCALE: NOT TO SCALE



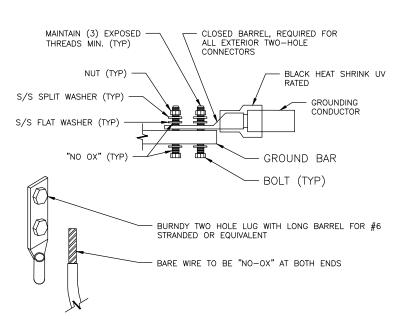


- 1. ERICO EXOTHERMIC "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH CONSTRUCTION MANAGER FOR SPECIFIC
- MOLDS TO BE USED FOR THIS PROJECT.

  2. MOLD TYPE ONLY TO BE USED BELOW GRADE WHEN CONNECTING GROUND RING TO GROUND ROD.

#### CADWELD GROUNDING CONNECTIONS SCALE: NOT TO SCALE

	CONDUIT SCHEDULE
KEY	DESCRIPTION
1	1" CONDUIT W/PULLSTRINGS FOR ALARM CABLES (FROM GENERATOR TO BTS)
2	2" CONDUIT W/PULLSTRING (FROM GENERATOR TO PPC FOR BLOCK HEATER/BATTERY CHARGER))
3	2" CONDUIT W/ PULLSTRING (FROM ATS TO PPC, FOR POWER FEEDERS)
4	2" CONDUIT W/ PULLSTRING (FROM GENERATOR TO ATS FOR EMERGENCY POWER FEEDERS)
5	1" CONDUIT W/ PULLSTRING (FROM GENERATOR TO ATS, FOR CONTROL CABLE)
	<u> </u>



NOTES:

1. ALL HARDWARE SHALL BE 18–8
STAINLESS STEEL. COAT ALL SURFACES WITH
ANTIOXIDANT COMPOUND BEFORE ALL EXPOSED EASILY ACCESSIBLE GROUND BAI SHALL BE TAGGED "DO NOT DISCONNECT".

4. COAT ALL BARRELS WITH

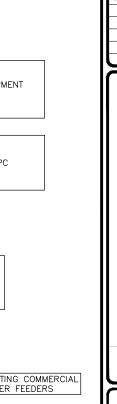
> EXTERIOR GROUND BAR LUG SCALE: NOT TO SCALE

ANTIOXIDANT BEFORE CRIMPING.

#### NOTES:

- 1. BOND PPC AND EQUIPMENT ENCLOSURES TO BURIED GROUNDING CONDUCTOR. USE A NEMA DRILLING, TWO—HOLE CONNECTOR FOR BONDS TO EQUIPMENT ENCLOSURES; USE AN APPROVED CONDUIT CLAMP FOR CONNECTIONS TO SERVICE CONDUITS. EXOTHERMICALLY WELD CONNECTIONS TO GROUNDING
- 2. BOND ALL EXTERIOR CONDUITS, PIPES, AND CYLINDRICAL METALLIC OBJECTS WITH A PENN-UNION GT SERIES CLAMP, BLACKBURN GUV SERIES CLAMP, OR A BURNDY GAR 3900BU SERIES CLAMP ONLY. NO SUBSTITUTES ACCEPTED.
- 3. AFTER INSTALLATION IS COMPLETED IN CONFORMANCE WITH THESE DRAWINGS AND THE STANDARD SPECIFICATIONS, THE CONTRACTOR SHALL CONFIRM THE IMPEDANCE (GROUND RESISTANCE) TO EARTH AND BETWEEN GROUNDING CIRCUITS. THE GROUNDING SYSTEM IS EXPECTED TO PROVIDE FOR A MAXIMUM EARTH RESISTANCE OF 6 OHMS. THE CONTRACTOR SHALL NOTIFY T-MOBILE PRIOR TO ALL TESTING AND SHALL FURTHER NOTIFY T-MOBILE IN THE EVENT THE EARTH RESISTANCE IS GREATER THAN 5 OHMS.
- 4. ALL GROUNDING INSTALLATION IS TO BE IN ACCORDANCE WITH THE T-MOBILE WIRELESS STANDARDS AND SUPPLEMENTS PROVIDED BY THE PROJECT
- 5. ALL BENDS ON THE GROUND CONDUCTOR TO BE MADE WITH A MINIMUM 24"
- 6. ALL GROUND LEADS MUST TERMINATE AT MGB, NOT HALO.
- 7. MUST USE INSPECTION HOLE LUGS FOR GROUNDING
- 8. NO OVERLAPPING GROUND HARDWARE.
- 9. WHERE MECHANICAL CONNECTIONS ARE USED (TWO HOLE OR CRIMP), APPLY A LIBERAL PROTECTIVE COATING OF A CONDUCTIVE ANTI-OXIDE COMPOUND ON ALL CONNECTORS SUCH AS NO-OX OR APPROVED EQUAL.

GENERAL GROUNDING NOTES SCALE: NOT TO SCALE







203-275-6669

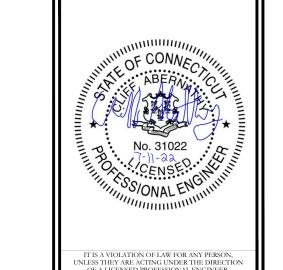


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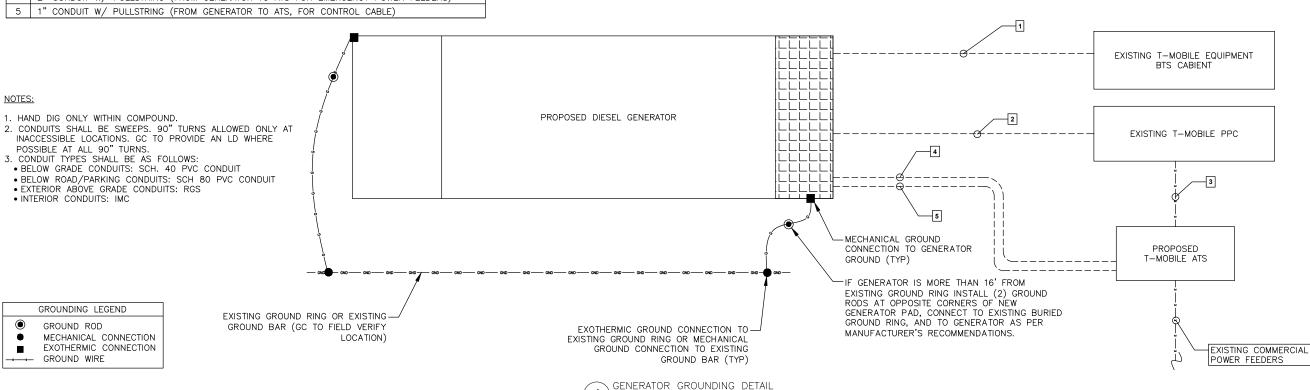
53 SLATER STREET MANCHESTER, CT 06040

EXISTING 155'-0' MONOPOLE

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UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT. REVISION: SHEET NUMBER: G-1



SCALE: NOT TO SCALE

# Exhibit D

**EPA Certified Stationary Emergency** 



Standby Power Rating 48 kW, 60 kVA, 60 Hz







Image used for illustration purposes only

## **Codes and Standards**

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



UL2200, UL508, UL489, UL142



CSA 22.2





BS5514 and DIN 6271



**SAE J1349** 



NFPA 37, 70, 99



ISO 3046, 8528, 9001



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



an National Standards Institute ANSI/IEEE C62.41

## **Powering Ahead**

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## RD048 | 3.4L | 48 kW

#### INDUSTRIAL DIESEL GENERATOR SET

**EPA Certified Stationary Emergency** 

#### **Standard Features**

#### **ENGINE SYSTEM**

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

#### **Fuel System**

Primary Fuel Filter

#### **Cooling System**

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

#### **Electrical System**

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

#### **ALTERNATOR SYSTEM**

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

#### **GENERATOR SET**

GENERAC

Sound Attenuated Aluminum Enclosure

**INDUSTRIAL** 

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

#### **TANKS**

- 48 Hour Run Time Tank
- UL 142 Listed Tank

#### **CONTROL SYSTEM**



#### **Evolution ™ Controller**

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

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

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

#### **GENERATOR SET**

- O Paint Kit
- O Scheduled Maintance Kit

#### **CONTROL SYSTEM**

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

#### **TANKS**

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

## RD048 | 3.4L | 48 kW

#### INDUSTRIAL DIESEL GENERATOR SET

**EPA Certified Stationary Emergency** 



#### **APPLICATION AND ENGINEERING DATA**

### **ENGINE SPECIFICATIONS**

General

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

Cast Iron OHV

Aluminum

#### **Engine Governing**

Cylinder Head

Piston Type

Governor	Electronic
Frequency Regulation (Steady State)	±0.25%

#### Lubrication System

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

#### Cooling System

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

#### Fuel System

Fuel Type	Ultra Low Sulfur Diesel Fuel
Fuel Specification	ASTM
Fuel Pump Type	Mechanical Engine Driven Gear
Injector Type	Mechanical
Fuel Supply Lin (mm/in)	7.94/0.31 (ID)
Fuel Return Line (mm/in)	7.94/0.31 (ID)
Fuel Filtering (microns)	25

#### Engine Electrical System

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

#### **ALTERNATOR SPECIFICATIONS**

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

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

## RD048 | 3.4L | 48 kW

#### INDUSTRIAL DIESEL GENERATOR SET

**EPA Certified Stationary Emergency** 



#### **OPERATING DATA**

#### **POWER RATINGS**

Standby

Single-Phase 120/480 VAC @0.1pf

48 kW

Amps: 200

#### **MOTOR STARTING CAPABILITIES (SKVA)**

sKVA vs. Voltage Dip at 30%

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

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

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

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

#### **COOLING**

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

#### **COMBUSTION AIR REQUIREMENTS**

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

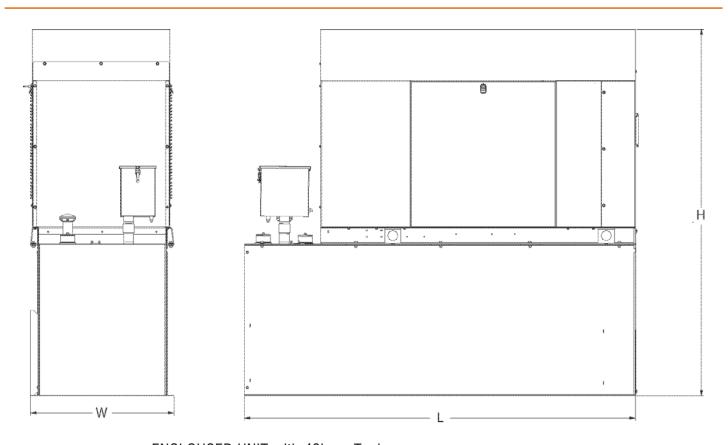
ENGINE			EXHAUST		
		Standby			Standby
Rated Engine Speed	rpm	1,800	Exhaust Flow (Rated Output)	ft³/min (m³/min)	448 (12.7)
Horsepower at rated kW	HP	85	Exhaust Temp (Rated Output - Post Silencer)	°F (°C)	1120 (604.4)

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

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



#### **DIMENSIONS AND WEIGHTS\***



#### **ENCLOUSED UNIT with 48hour Tank**

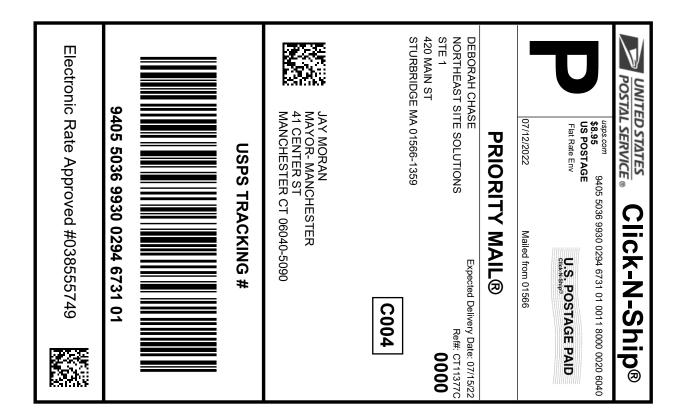
L x W x H in (mm)	95.4 (2,422) x 35.0 (880) x 89.3 (2,269)
Sound output in dB(A) at 23ft with generator operating at normal Load	65

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

YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER				

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

# Exhibit E





#### Instructions

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- 2. Place your label so it does not wrap around the edge of the package.
- 3. Adhere your label to the package. A self-adhesive label is recommended. If tape or glue is used, DO NOT TAPE OVER BARCODE. Be sure all edges are secure.
- 4. To mail your package with PC Postage®, you may schedule a Package Pickup online, hand to your letter carrier, take to a Post Office™, or drop in a USPS collection box.
- 5. Mail your package on the "Ship Date" you selected when creating this label.

## Click-N-Ship® Label Record

#### **USPS TRACKING #:** 9405 5036 9930 0294 6731 01

Trans. #: 567435471 Print Date: 07/12/2022 07/12/2022 07/15/2022 Delivery Date:

Priority Mail® Postage: Total:

\$8.95

\$8.95

From: **DEBORAH CHASE** Ref#: CT11377C

NORTHEAST SITE SOLUTIONS

STE 1

420 MAIN ST

STURBRIDGE MA 01566-1359

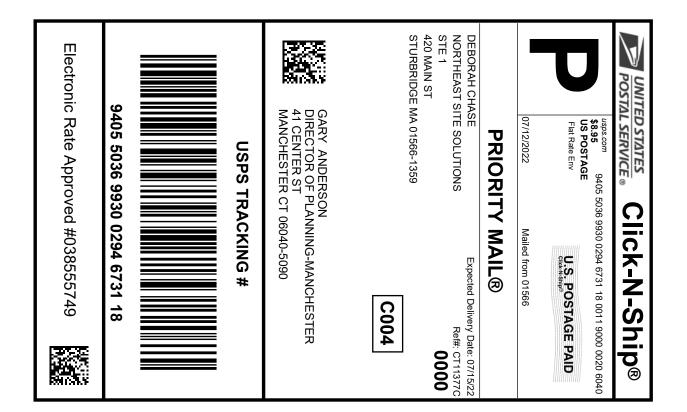
JAY MORAN

MAYOR- MANCHESTER

41 CENTER ST

MANCHESTER CT 06040-5090

\* Retail Pricing Priority Mail rates apply. There is no fee for USPS Tracking® service on Priority Mail service with use of this electronic rate shipping label. Refunds for unused postage paid labels can be requested online 30 days from the print date.





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## Click-N-Ship® Label Record

#### **USPS TRACKING #:** 9405 5036 9930 0294 6731 18

Trans. #: 567435471 Print Date: 07/12/2022 07/12/2022 07/15/2022 Delivery Date:

Priority Mail® Postage: Total:

\$8.95 \$8.95

From: **DEBORAH CHASE**  Ref#: CT11377C

NORTHEAST SITE SOLUTIONS

STE 1

420 MAIN ST

STURBRIDGE MA 01566-1359

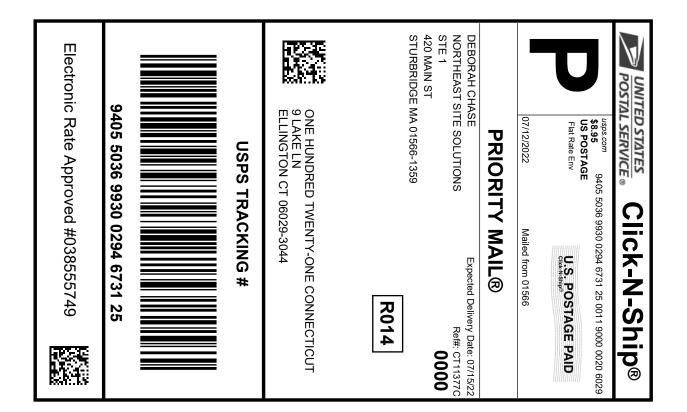
GARY ANDERSON

DIRECTOR OF PLANNING-MANCHESTER

41 CENTER ST

MANCHESTER CT 06040-5090

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## Click-N-Ship® Label Record

#### **USPS TRACKING #:** 9405 5036 9930 0294 6731 25

Trans. #: 567435471 Print Date: 07/12/2022 07/12/2022 07/15/2022 Delivery Date:

Priority Mail® Postage: Total:

\$8.95 \$8.95

From: **DEBORAH CHASE** 

Ref#: CT11377C

NORTHEAST SITE SOLUTIONS

STE 1

420 MAIN ST

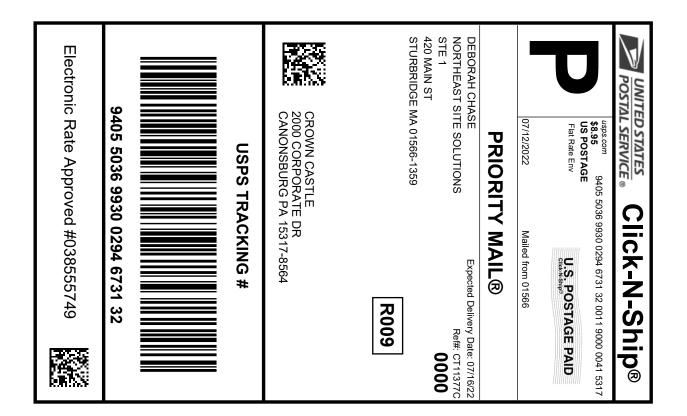
STURBRIDGE MA 01566-1359

ONE HUNDRED TWENTY-ONE CONNECTICUT AVE

ASSOC. LLC 9 LAKE LN

**ELLINGTON CT 06029-3044** 

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## Click-N-Ship® Label Record

#### **USPS TRACKING #:** 9405 5036 9930 0294 6731 32

Trans. #: 567435471 Print Date: 07/12/2022 07/12/2022 07/16/2022 Delivery Date:

Priority Mail® Postage: Total:

\$8.95 \$8.95

Ref#: CT11377C

From: **DEBORAH CHASE** 

NORTHEAST SITE SOLUTIONS

STE 1

420 MAIN ST

STURBRIDGE MA 01566-1359

**CROWN CASTLE** 

2000 CORPORATE DR

**CANONSBURG PA 15317-8564** 

Retail Pricing Priority Mail rates apply. There is no fee for USPS Tracking® service on Priority Mail service with use of this electronic rate shipping label. Refunds for unused postage paid labels can be requested online 30 days from the print date.



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

07/13/2022

04:02 PM

Product

Qty

Price Unit Price

Prepaid Mail

\$0.00

\$0.00

\$0.00

\$0.00

Canonsburg, PA 15317 Weight: O lb 1.90 oz

Acceptance Date: Wed 07/13/2022

Tracking #: 9405 5036 9930 0294 6731 32

Prepaid Mail

Manchester, CT 06040 Weight: 0 1b 4.40 oz Acceptance Date:

Wed 07/13/2022

Tracking #: 9405 5036 9930 0294 6731 01

Prepaid Mail

Manchester, CT 06040 Weight: 0 1b 4.40 oz Acceptance Date:

Wed 07/13/2022

Tracking #: 9405 5036 9930 0294 6731 18

Prepaid Mail

Ellington, CT 06029 Weight: 0 1b 4.40 oz

Acceptance Date:

Wed 07/13/2022

Tracking #: 9405 5036 9930 0294 6731 25

Grand Total:

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