

# TOTALLY COMMITTED.

June 25, 2021

Melanie A. Bachman Executive Director Connecticut Siting Council 10 Franklin Square New Britain, CT 06051

Notice of Exempt Modification Facility Address: 484 Meriden Road, Middlefield, CT Facility Coordinates: 41.535514, -72.732094

Dear Ms. Bachman,

American Tower (ATC) currently maintains an Existing Cellular Tower Facility (150' Monopole) at 484 Meriden Road, Middlefield, CT 06455. The property is owned by Land Management Inc. American Tower (ATC) now intends to install an 80kw Generator within the leased, fenced ground space area of the facility. The purpose of the generator installation is to allow for a shared back up emergency power option for its current (and future) wireless carrier tenants.

Because this proposed generator is within the existing, approved compound space, and the applicant is NOT requesting expansion of ground space beyond the approved conditions, 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 Edward Bailey, the First Selectman of the Town of Middlefield, Jerry Russ, Zoning Enforcement Officer, as well as the property owner and tower owner.





#### ATTACHMENT A

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 generator back up power facility will not increase radio frequency emissions at the facility to the 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 if the tower will be reenforced to support them. <<< NOTE This condition is N/A. The proposed Generator is based on the ground, and not associated or loaded onto the tower or foundation.

For the foregoing reasons, American Tower (ATC) 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).

If you have any questions, I can be reached at <a href="mailto:mweber@nbcllc.com">mweber@nbcllc.com</a> or 215.416.0363

Best Regards,

#### Margie Weber

**Attachments** 

cc: Edward Bailey
Jerry Russ
Land Management Inc.
American Tower (ATC)



#### LETTER OF AUTHORIZATION

ATC Site No./Name/Project: 411260 / Middlefield CT / 13351896 Site Address: Address: 484 Meriden Road, Middlefield, CT 06455

Licensee: T-Mobile Northeast LLC dba T-Mobile

I, Margaret Robinson, Senior Counsel for American Tower\*, operator of the tower facility located at the address identified above (the "Tower Facility"), do hereby authorize **T-Mobile Northeast LLC dba T-Mobile**, its successors and assigns, and/or its agent, (collectively, the "Licensee") to act as American Tower's non-exclusive agent for the sole purpose of filing and consummating any land-use or building permit application(s) as may be required by the applicable permitting authorities for Licensee's telecommunications' installation.

We understand that this application may be denied, modified or approved with conditions. The above authorization is limited to the acceptance by Licensee only of conditions related to Licensee's installation and any such conditions of approval or modifications will be Licensee's sole responsibility.

Signature:

Print Name: Margaret Robinson

Senior Counsel American Tower\*

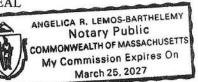
#### NOTARY BLOCK

Commonwealth of MASSACHUSETTS
County of Middlesex

This instrument was acknowledged before me by Margaret Robinson, Senior Counsel for American Tower\*, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same.

WITNESS my hand and official seal, this 14th of May 2021.

NOTARY SEAL



Notary Public My Commission Expires: March 25, 2027

<sup>\*</sup>American Tower includes all affiliates and subsidiaries of American Tower Corporation.

#### 484 MERIDEN RD & RT 66

Location 484 MERIDEN RD & RT 66 **Mblu** 4//5//

Acct# 00146700 Owner LAND MANAGMENT INC

PID Assessment \$386,500 1566

**Building Count** 3

#### **Current Value**

Assessment			
Valuation Year	Improvements	Land	Total
2016	\$152,900	\$233,600	\$386,500

#### **Owner of Record**

LAND MANAGMENT INC Sale Price \$0 Owner

Co-Owner Certificate

Address 482 RT 66 & MERIDEN RD Book & Page 0066/0682 MIDDLEFIELD, CT 06455 Sale Date 09/30/1988

Instrument UNKQ

#### **Ownership History**

Ownership History					
Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date
LAND MANAGMENT INC	\$0		0066/0682	UNKQ	09/30/1988

#### **Building Information**

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

Year Built: 1958 Living Area: 1,878 Replacement Cost: \$166,389 45

**Building Percent Good:** 

Replacement Cost **Less Depreciation:** \$74,900

Building Attributes		
Field	Description	
Style:	Restaurant	

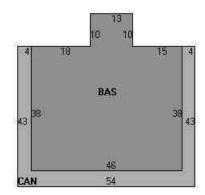
#### **Building Photo**

**Building Photo** 

(http://images.vgsi.com/photos/MiddlefieldCTPhotos/\01\00\21\73.jpg)

Model	Comm/Ind
Grade	Average
Stories:	1
Occupancy	1.00
Exterior Wall 1	Single Siding
Exterior Wall 2	
Roof Structure	Flat
Roof Cover	Rolled Compos
Interior Wall 1	Plywood Panel
Interior Wall 2	
Interior Floor 1	Concr-Finished
Interior Floor 2	Terrazzo Monol
Heating Fuel	Gas/Oil
Heating Type	Forced Air-Duc
AC Type	Heat Pump
Struct Class	
Bldg Use	REST/CLUBS
Total Rooms	
Total Bedrms	00
Total Baths	0
1st Floor Use:	3260
Heat/AC	HEAT/AC PKGS
Frame Type	WOOD FRAME
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	AVERAGE
Wall Height	9.00
% Comn Wall	

#### **Building Layout**



(http://images.vgsi.com/photos/MiddlefieldCTPhotos//Sketches/1566\_1566

Building Sub-Areas (sq ft)			<u>Legend</u>
Code	Description	Gross Area	Living Area
BAS	First Floor	1,878	1,878
CAN	Canopy	574	0
		2,452	1,878

#### **Building 2: Section 1**

Year Built: 1969
Living Area: 2,400
Replacement Cost: \$195,644
Building Percent Good: 52

Replacement Cost

Less Depreciation: \$101,700

Building Attributes : Bldg 2 of 3		
Field Description		
Style:	Store	
Model	Ind/Comm	
Grade	Average	
Stories:	1	

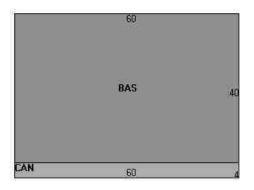
2.00
Concr/Cinder
Brick
Flat
Rolled Compos
Drywall
Concr-Finished
Carpet
Gas/Oil
Forced Air-Duc
None
STORE/SHOP
00
0
3220
NONE
MASONRY
AVERAGE
SUS-CEIL & WL
AVERAGE
9.00

#### **Building Photo**



(http://images.vgsi.com/photos/MiddlefieldCTPhotos/\01\00\17\36.jpg)

#### **Building Layout**



(http://images.vgsi.com/photos/MiddlefieldCTPhotos//Sketches/1566\_2204

Building Sub-Areas (sq ft)			<u>Legend</u>
Code	Description	Gross Area	Living Area
BAS	First Floor	2,400	2,400
CAN	Canopy	240	0
		2,640	2,400

#### Building 3 : Section 1

**Replacement Cost** 

Year Built: 1953 Living Area: 984 Replacement Cost: \$80,868 Building Percent Good: 30

Less Depreciation: \$24,300

Building Attributes : Bldg 3 of 3		
Field Description		
Style:	Ranch	
Model	Residential	
Grade:	Below Average	

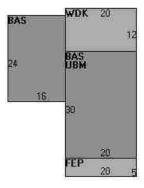
terior Wall 1  terior Wall 2  of Structure:	1 Aluminum Sidng Pre-Fab Wood Gable
oof Structure:	Pre-Fab Wood Gable
oof Structure:	Gable
pof Cover	
	Asshalt Chinal
erior Wall 1	Asphalt Shingl
	Drywall
erior Wall 2	
erior Flr 1	Linoleum
erior Flr 2	Carpet
eat Fuel	Electric
eat Type:	Electr Basebrd
C Type:	None
tal Bedrooms:	2 Bedrooms
tal Bthrms:	1
tal Half Baths:	0
tal Xtra Fixtrs:	
tal Rooms:	5 Rooms
th Style:	Average
chen Style:	Average
ım Kitchens	01
hirlpool	
ım Park	
replaces	
erior	
dtn Cndtn	
sement	

#### **Building Photo**



(http://images.vgsi.com/photos/MiddlefieldCTPhotos/\01\00\17\35.jpg)

#### **Building Layout**



(http://images.vgsi.com/photos/MiddlefieldCTPhotos//Sketches/1566\_2205

	Building Sub-Areas (sq ft	)	<u>Legend</u>
Code	Description	Gross Area	Living Area
BAS	First Floor	984	984
FEP	Porch, Enclosed	100	0
UBM	Basement, Unfinished	600	0
WDK	Deck, Wood	240	0
		1,924	984

#### **Extra Features**

Extra Features	<u>Legend</u>
No Data for Extra Features	

#### Land

Land Use

Use Code 3260

**Description** REST/CLUBS

Zone PC Neighborhood A ALL Land Appr No

Category

 Size (Acres)
 3.49

 Frontage
 605

Depth

Assessed Value \$233,600

#### Outbuildings

	Outbuildings <u>Legen</u>					
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
PAV1	PAVING-ASPHALT			20000.00 S.F.	\$17,500	1

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#### **Margie Weber**

From: TrackingUpdates@fedex.com
Sent: Tuesday, June 29, 2021 2:48 PM

To: Margie Weber

**Subject:** FedEx Shipment 774115505068: Your package has been delivered



# Hi. Your package was delivered Tue, 06/29/2021 at 2:44pm.



Delivered to 482 MERIDEN RD, MIDDLEFIELD, CT 06455 Received by D.ONNA

#### **OBTAIN PROOF OF DELIVERY**

**TRACKING NUMBER** <u>774115505068</u>

FROM NB+C

1777 Sentry Parkway West

Veva 17, Suite 400

BLUE BELL, PA, US, 19422

TO Land Management Inc.

482 Route 66

MIDDLEFIELD, CT, US, 06455

REFERENCE 100510

SHIPPER REFERENCE 100510

**SHIP DATE** Mon 6/28/2021 03:48 PM

**DELIVERED TO** Receptionist/Front Desk

PACKAGING TYPE FedEx Envelope

**ORIGIN** BLUE BELL, PA, US, 19422

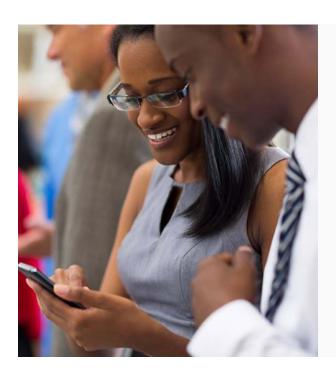
**DESTINATION** MIDDLEFIELD, CT, US, 06455

SPECIAL HANDLING Deliver Weekday

NUMBER OF PIECES 1

TOTAL SHIPMENT WEIGHT 0.50 LB

**SERVICE TYPE** FedEx Standard Overnight



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All weights are estimated.

#### **Margie Weber**

From: TrackingUpdates@fedex.com
Sent: Tuesday, June 29, 2021 10:21 AM

To: Margie Weber

**Subject:** FedEx Shipment 774115488819: Your package has been delivered



# Hi. Your package was delivered Tue, 06/29/2021 at 10:19am.



Delivered to 393 JACKSON HILL RD, MIDDLEFIELD, CT 06455 Received by D.GOLUB

#### **OBTAIN PROOF OF DELIVERY**

**TRACKING NUMBER** <u>774115488819</u>

FROM NB+C

1777 Sentry Parkway West

Veva 17, Suite 400

BLUE BELL, PA, US, 19422

**TO** Town of Middlefield

Jerry Russ, ZEO

393 Jackson Hill Road

MIDDLEFIELD, CT, US, 06455

REFERENCE 100510

1

SHIPPER REFERENCE 100510

**SHIP DATE** Mon 6/28/2021 03:48 PM

**DELIVERED TO** Receptionist/Front Desk

PACKAGING TYPE FedEx Envelope

**ORIGIN** BLUE BELL, PA, US, 19422

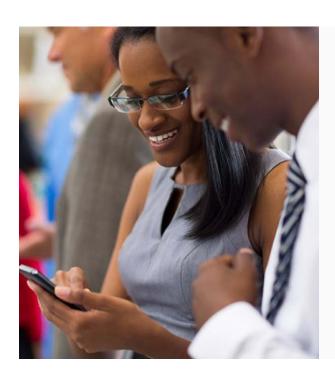
**DESTINATION** MIDDLEFIELD, CT, US, 06455

SPECIAL HANDLING Deliver Weekday

NUMBER OF PIECES 1

TOTAL SHIPMENT WEIGHT 0.50 LB

SERVICE TYPE FedEx Standard Overnight



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#### **Margie Weber**

From: TrackingUpdates@fedex.com
Sent: Tuesday, June 29, 2021 10:23 AM

To: Margie Weber

**Subject:** FedEx Shipment 774115479711: Your package has been delivered



# Hi. Your package was delivered Tue, 06/29/2021 at 10:19am.



Delivered to 393 JACKSON HILL RD, MIDDLEFIELD, CT 06455 Received by D.GOLUB

#### **OBTAIN PROOF OF DELIVERY**

**TRACKING NUMBER** <u>774115479711</u>

FROM NB+C

1777 Sentry Parkway West

Veva 17, Suite 400

BLUE BELL, PA, US, 19422

TO Town of Middlefield

Edward Bailey, First Selectman

393 Jackson Hill Road

MIDDLEFIELD, CT, US, 06455

REFERENCE 100510

1

SHIPPER REFERENCE 100510

**SHIP DATE** Mon 6/28/2021 03:48 PM

**DELIVERED TO** Receptionist/Front Desk

PACKAGING TYPE FedEx Envelope

**ORIGIN** BLUE BELL, PA, US, 19422

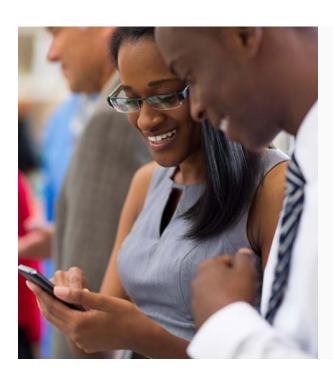
**DESTINATION** MIDDLEFIELD, CT, US, 06455

SPECIAL HANDLING Deliver Weekday

NUMBER OF PIECES 1

TOTAL SHIPMENT WEIGHT 0.50 LB

SERVICE TYPE FedEx Standard Overnight



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ATC SITE NAME: MIDDLEFIELD CT

SITE NUMBER: 411260

SITE ADDRESS: 484 MERIDEN RD.

MIDDLEFIELD, CT 06455



**LOCATION MAP** 

### SHARED GENERATOR PROGRAM ANCHOR TENANT

COMPLIANCE CODE	PROJECT SUMMARY	PROJECT DESCRIPTION		SHEET INDEX			
ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE	SITE ADDRESS:	THE PROPOSED PROJECT INSTALLS AN OPTIONAL STANDBY GENERATOR SYSTEM. AUTOMATIC TRANSFER SWITCH.	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS	484 MERIDEN RD. MIDDLEFIELD, CT 06455	GENERATOR AUXILIARY POWER DISTRIBUTION, AND REMOTE MONITORING COMMUNICATIONS CIRCUITRY FOR A	G-001	TITLE SHEET	0	03/30/21	AB
TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.	COUNTY: MIDDLESEX	COMMUNICATION TOWER TENANT.	G-002	GENERAL NOTES	0	03/30/21	AB
INTERNATIONAL BUILDING CODE (IBC)	GEOGRAPHIC COORDINATES:	PROJECT NOTES	C-101	SITE PLAN	0	03/30/21	AB
NATIONAL ELECTRIC CODE (NEC)     LOCAL BUILDING CODE	LATITUDE: 41.535514 LONGITUDE: -72.732094	THE FACILITY IS UNMANNED.	C-501	CONCRETE PAD DETAILS	0	03/30/21	AB
4. CITY/COUNTY ORDINANCES	GROUND ELEVATION: 427' AMSL		E-601	ELECTRICAL ONE-LINE AND WIRING DETAILS	0	03/30/21	AB
	ZONING INFORMATION:	A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE     A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE.	R-601	SUPPLEMENTAL			
	JURISDICTION: MIDDLESEX PARCEL NUMBER: 06-1245177	THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE.      NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED.					
	PROJECT TEAM	5. HANDICAP ACCESS IS NOT REQUIRED.					
	ATC REGIONAL NETWORK DEVELOPMENT PROJECT MANAGER: MICHAEL FLINT (843) 416-7168						
UTILITY COMPANIES	ATC NETWORK OPERATIONS CENTER: (877) 518-6937						
POWER COMPANY: NORTHEAST UTLITIES PHONE: (800) 286-2000	TOWER OWNER:	PROJECT LOCATION DIRECTIONS					
TELEPHONE COMPANY: AT&T PHONE: (800) 288-2020	AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801						
Know what's below. Call before you dig.	PROPERTY OWNER:  LAND MANAGEMENT INC.  482 ROUTE 66  MIDDLEFIELD CT 06455  ENGINEERED BY:  ATC TOWER SERVICES  3500 REGENCY PARKWAY SUITE 100  CARY, NC 27518	FROM WALLINGFORD TAKE RT 91 NORTH TO EXIT 16 (E. MAIN ST) TAKE A RIGHT ONTO EAST MAIN STREET FOLLOW TO RT. 66 AT 1ST TRAFFIC LIGHT ON 66 TAKE A LEFT INTO GUIDA'S DAIRY BAR SITE IS IN LEFT CORNER OF REAR PARKING LOT. GATE COMBO IS 2370					



A.T. ENGINEERING SERVICE, PLLC
3500 REGENCY PARKWAY

500 REGENCY PARKWAY SUITE 100 CARY, NC 27518 PHONE: (919) 468-0112 COA: PEC.0001553

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OR SERVICE ARE THE EXCLUSIVE PROPERTY OF AMERICAN TOWER. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF AMERICAN TOWER WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIEY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER.

REV.	DESCRIPTION	BY	DATE
$\triangle$ _	FOR CONSTRUCTION	<u>AB</u> _	03/30/21
$\triangle$ _			
$\overline{\wedge}$			
$\square$			
$\square$			
-			

ATC SITE NUMBER:

411260

ATC SITE NAME:

#### MIDDLEFIELD CT

SITE ADDRESS: 484 MERIDEN RD. MIDDLEFIELD, CT 06455

SEAL



### T··Mobile

DRAWN BY:	AB
APPROVED BY:	PB
DATE DRAWN:	03/30/21
ATC JOB NO:	13348356_M4

TITLE SHEET

SHEET NUMBER

REVISION:

G-001

0

#### **GENERAL CONSTRUCTION NOTES:**

- ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSI/EIA/TIA-222. AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS.
- CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES
  PRIOR TO START OF CONSTRUCTION.
- 3. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
- ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
- 5. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
- 6. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 8. CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS FTC.
- 9. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
- INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE ATC CM PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE ATC CM PRIOR TO PROCEEDING.
- 11. EACH CONTRACTOR SHALL COOPERATE WITH THE ATC CM, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
- 12. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE ATC CONSTRUCTION MANAGER
- ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
- 14. WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE ATC CONSTRUCTION MANAGER IMMEDIATELY.
- 15. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
- CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
- 17. CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH LANDLORD AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
- CONTRACTOR SHALL FURNISH ATC WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
- 19. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH ATC CM TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL ALL ITEMS PROVIDED.
- 20. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH ATC CONSTRUCTION MANAGER TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY ATC. ALL REQUIRED PERMITS NOT OBTAINED BY ATC MUST BE OBTAINED. AND PAID FOR. BY THE CONTRACTOR.
- 21. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH ATC SPECIFICATIONS AND REQUIREMENTS.
- 22. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO ATC FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- 23. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO ATC SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
- 24. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- 25. CONTRACTOR SHALL NOTIFY ATC CM A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND APPROVAL.
- 26. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.
- 27. THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE, ALL EXISTING FACILITIES AND SUCH OF HIS NEW WORK LIABLE TO INJURY DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS

- REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR. SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION
- 28. ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE ATC CM. ANY WORK FOUND BY THE ATC CM TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
- 29. IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS AS SPECIFIED.

#### CONCRETE AND REINFORCING STEEL NOTES:

- DESIGN AND CONSTRUCTION OF ALL CONCRETE ELEMENTS SHALL CONFORM TO THE LATEST EDITIONS OF ALL APPLICABLE CODES INCLUDING: ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", ACI 117 "SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS", AND ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"
- 2. MIX DESIGN SHALL BE APPROVED BY ATC CM PRIOR TO PLACING CONCRETE.
- CONCRETE SHALL BE NORMAL WEIGHT, 6 % AIR ENTRAINED (+/- 1.5%) WITH A SLUMP RANGE OF 3-5" AND HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI UNLESS OTHERWISE NOTED.
- 4. THE FOLLOWING MATERIALS SHALL BE USED:

PORTLAND CEMENT: ASTM C150, TYPE 2

REINFORCEMENT: ASTM A185, PLAIN STEEL WELDED WIRE FABRIC

REINFORCEMENT BARS: ASTM A615, GRADE 60, DEFORMED

NORMAL WEIGHT AGGREGATE: ASTM C33
WATER: ASTM C 94/C 94M

ADMIXTURES

-WATER-REDUCING AGENT: ASTM C 494/C 494M, TYPE A

-AIR-ENTERING AGENT: ASTM C 260/C 260M

-SUPERPLASTICIZER: ASTM C494, TYPE F OR TYPE G

-RETARDING: ASTM C 494/C 494M, TYPE B

- 5. MINIMUM CONCRETE COVER FOR REINFORCING STEEL SHALL BE NO LESS THAN 3".
- 6. A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE IN ACCORDANCE WITH ACI 301 SECTION 4.2.4, UNLESS NOTED OTHERWISE.
- 7. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL, OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR ATC CM APPROVAL WHEN DRILLING HOLES IN CONCRETE.
- ADMIXTURES SHALL CONFORM TO THE APPROPRIATE ASTM STANDARD AS REFERENCED IN "METHOD 1" OF ACI 301.
- DO NOT WELD OR TACK WELD REINFORCING STEEL.
- 10. ALL DOWELS, ANCHOR BOLTS, EMBEDDED STEEL, ELECTRICAL CONDUITS, PIPE SLEEVES, GROUNDS AND ALL OTHER EMBEDDED ITEMS AND FORMED DETAILS SHALL BE IN PLACE BEFORE START OF CONCRETE PLACEMENT.
- 11. REINFORCEMENT SHALL BE COLD BENT WHENEVER BENDING IS REQUIRED.
- 12. DO NOT PLACE CONCRETE IN WATER, ICE, OR ON FROZEN GROUND.
- 13. DO NOT ALLOW REINFORCEMENT, CONCRETE OR SUBBASE TO FREEZE DURING CONCRETE CURING AND SETTING PERIOD, OR FOR A MINIMUM OF 3 DAYS AFTER PLACEMENT.
- 14. FOR COLD-WEATHER(ACI 306) AND HOT-WEATHER(ACI 301M) CONCRETE PLACEMENT, CONFORM TO APPLICABLE ACI CODES AND RECOMMENDATIONS. IN EITHER CASE, MATERIALS CONTAINING CHLORIDE, CALCIUM, SALTS, ETC. SHALL NOT BE USED. PROTECT FRESH CONCRETE FROM WEATHER FOR 7 DAYS, MINIMUM.
- 15. ALL CONCRETE SHALL HAVE A "SMOOTH FORM FINISH."
- 16. UNLESS OTHERWISE NOTED:
  - ALL REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615/A 615M/A-996, GRADE 60.
  - B. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
- 17. SPLICING OF REINFORCEMENT IS PERMITTED ONLY AT LOCATIONS SHOWN IN THE CONTRACT DRAWINGS OR AS ACCEPTED BY THE ENGINEER. UNLESS OTHERWISE SHOWN OR NOTED REINFORCING STEEL SHALL BE SPLICED TO DEVELOP ITS FULL TENSILE CAPACITY (CLASS A) IN ACCORDANCE WITH ACI 318.
- 18. REINFORCING BAR DEVELOPMENT LENGTHS, AS COMPUTED IN ACCORDANCE WITH ACI 318, FORM THE BASIS FOR BAR EMBEDMENT LENGTHS AND BAR SPLICED LENGTHS SHOWN IN THE

- DRAWINGS. APPLY APPROPRIATE MODIFICATION FACTORS FOR TOP STEEL, BAR SPACING, COVER AND THE LIKE.
- DETAILING OF REINFORCING STEEL SHALL CONFORM TO "ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" (ACI 315).
- 20. ALL SLAB CONSTRUCTION SHALL BE CAST MONOLITHICALLY WITHOUT HORIZONTAL CONSTRUCTION JOINTS. UNLESS SHOWN IN THE CONTRACT DRAWINGS.
- LOCATION OF ALL CONSTRUCTION JOINTS ARE SUBJECT TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, CONFORMANCE WITH ACI 318, AND ACCEPTANCE OF THE ENGINEER. DRAWINGS SHOWING LOCATION OF DETAILS OF THE PROPOSED CONSTRUCTION JOINTS SHALL BE SUBMITTED WITH REINFORCING STEEL PLACEMENT DRAWINGS.
- 22. SPLICES OF WWF, AT ALL SPLICED EDGES, SHALL BE SUCH THAT THE OVERLAP MEASURED BETWEEN OUTERMOST CROSS WIRES OF EACH FABRIC SHEET IS NOT LESS THAN THE SPACING OF THE CROSS WIRE PLUS 2 INCHES, NOR LESS THAN 6".
- BAR SUPPORTS SHALL BE ALL-GALVINIZED METAL WITH PLASTIC TIPS.
- 24. ALL REINFORCEMENT SHALL BE SECURELY TIED IN PLACE TO PREVENT DISPLACEMENT BY CONSTRUCTION TRAFFIC OR CONCRETE. TIE WIRE SHALL BE OF SUFFICIENT STRENGTH FOR INTENDED PURPOSE. BUT NOT LESS THAN NO. 18 GAUGE.
- 25. SLAB ON GROUND:
  - A. COMPACT SUBGRADE AND ENSURE THERE IS PLACE 6" GRAVEL BENEATH SLAB.
  - B. PROVIDE VAPOR BARRIER BENEATH SLAB ON GROUND.

#### STRUCTURAL STEEL NOTES:

- STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS."
- STRUCTURAL STEEL ROLLED SHAPES, PLATES AND BARS SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS:
  - A. ASTM A-572, GRADE 50 ALL W SHAPES, UNLESS NOTED OR A992 OTHERWISE
  - B. ASTM A-36 ALL OTHER ROLLED SHAPES, PLATES AND BARS UNLESS NOTED OTHERWISE.
  - C. ASTM A-500, GRADE B HSS SECTION (SQUARE, RECTANGULAR, AND ROUND)
  - D. ASTM A-325, TYPE SC OR N ALL BOLTS FOR CONNECTING STRUCTURAL MEMBERS
  - E. ASTM F-1554 07 ALL ANCHOR BOLTS, UNLESS NOTED OTHERWISE
- ALL EXPOSED STRUCTURAL STEEL MEMBERS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A123. EXPOSED STEEL HARDWARE AND ANCHOR BOLTS SHALL BE GALVANIZED PER ASTM A153 OR B695
- 4. ALL FIELD CUT SURFACES, FIELD DRILLED HOLES AND GROUND SURFACES WHERE EXISTING PAINT OR GALVANIZATION REMOVAL WAS REQUIRED SHALL BE REPAIRED WITH (2) BRUSHED COATS OF ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURER'S RECOMMENDATIONS.
- DO NOT DRILL HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.
- 6. CONNECTIONS:
  - A. ALL WELDING TO BE PERFORMED BY AWS CERTIFIED WELDERS AND CONDUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS WELDING CODE D1.1.
  - B. ALL WELDS SHALL BE INSPECTED VISUALLY. 25% OF WELDS SHALL BE INSPECTED WITH DYE PENETRANT OR MAGNETIC PARTICLE TO MEET THE ACCEPTANCE CRITERIA OF AWS D1.1. REPAIR ALL WELDS AS NECESSARY.
  - C. INSPECTION SHALL BE PERFORMED BY AN AWS CERTIFIED WELD INSPECTOR.
  - D. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE BURNING/WELDING PERMITS AS REQUIRED BY LOCAL GOVERNING AUTHORITY AND IF REQUIRED SHALL HAVE FIRE DEPARTMENT DETAIL FOR ANY WELDING ACTIVITY.
  - E. ALL ELECTRODES TO BE LOW HYDROGEN, MATCHING FILLER METAL, PER AWS D1.1, UNLESS NOTED OTHERWISE.
  - F. MINIMUM WELD SIZE TO BE 0.1875 INCH FILLET WELDS, UNLESS NOTED OTHERWISE.
  - G. PRIOR TO FIELD WELDING GALVANIZING MATERIAL, CONTRACTOR SHALL GRIND OFF GALVANIZING ½" BEYOND ALL FIELD WELD SURFACES. AFTER WELD AND WELD INSPECTION IS COMPLETE, REPAIR ALL GROUND AND WELDED SURFACES WITH ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.



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OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR
THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. TITLE TO
THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF
AMERICAN TOWER WHETHER OR NOT THE PROJECT IS
EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL
BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS
PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND
ADVISE AMERICAN TOWER OF ANY DISCREPANCIES. ANY PRIOR
ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST
VERSION OR HE WITH AMERICAN TOWER

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ATC SITE NUMBER:

411260

ATC SITE NAME

#### MIDDLEFIELD CT

SITE ADDRESS: 484 MERIDEN RD. MIDDLEFIELD. CT 06455

SEAL:



T··Mobile

 DRAWN BY:
 AB

 APPROVED BY:
 PB

 DATE DRAWN:
 03/30/21

 ATC JOB NO:
 13348356\_M4

**GENERAL NOTES** 

SHEET NUMBER:

G-002

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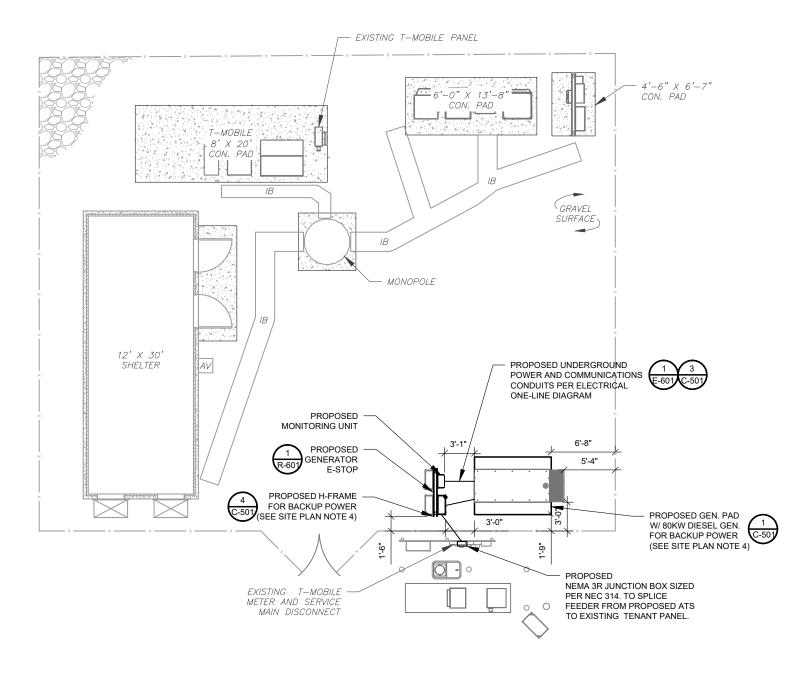
REVISION

#### SITE PLAN NOTES:

- THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
- 2. ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.
- 3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE ATC CONSTRUCTION MANAGER AND LOCAL UTILITY COMPANY FOR THE INSTALLATION OF CONDUITS, CONDUCTORS, BREAKERS, DISCONNECTS, OR ANY OTHER EQUIPMENT REQUIRED FOR ELECTRICAL SERVICE. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF THE STATE AND NATIONAL CODES, ORDINANCES AND REGULATIONS APPLICABLE TO THIS PROJECT.
- 4. CONTRACTOR SHALL INSURE THAT ALL WORKING SPACE REQUIREMENTS ARE MET PER APPLICABLE CODES AND MANUFACTURER SPECIFICATIONS.
- ABOVE GROUND CONDUITS NEED TO BE SUPPORTED/FASTENED PER NEC 344, NEC 352, AND PER ATC CONSTRUCTION SPECIFICATIONS.
- 6. THE FOLLOWING SIGNS SHALL BE INSTALLED AT TENANT SERVICE MAIN DISCONNECT PER NEC 702.7.
- 6.1. "CAUTION: TWO SOURCES OF SUPPLY STANDBY GENERATOR LOCATED OUTDOORS"
- 6.2. "WARNING: SHOCK HAZARD EXISTS IF GROUNDING ELECTRODE CONDUCTOR OR BONDING JUMPER CONNECTION IN THIS EQUIPMENT IS REMOVED WHILE ALTERNATE SOURCE IS ENERGIZED"

#### RODENT CONTROL AROUND GENERATOR ENVELOPE:

- INSTALL ALL PROVIDED SEALS, PLUGS, COVERS, ETC. IN GENERATOR AND FUEL TANK ENVELOPE. SEAL ALL REMAINING OPENINGS (EXCEPT NORMAL VENTING) WITH RODENT FOAM SEALANT. NO OPENING SHALL BE LARGER THAN 1/4 INCH ANY DIMENSION
- SEAL ALL CONDUITS INCLUDING CONDUITS ENTERING GENERATOR EQUIPMENT, BOXES, ATTACHMENTS, ETC. WITH RODENT FOAM SEALANT.
- SEAL ALL CONDUIT ACCESS OPENINGS THROUGH CONCRETE PAD WITH CONCRETE.
- 4. SLOPE GRAVEL BASE AT CONCRETE PAD PERIMETER FROM ABOVE PAD BASE TO EXISTING GRADE LEVEL TYPICAL ALL PERIMETER SIDES.



#### APPROXIMATE TRENCH DISTANCES

LEGEND

BOLLARD

DISCONNECT

ELECTRICAL

**GENERATOR** 

ICE BRIDGE

METER

TELCO

PULL BOX

KENTROX BOX

POWER POLE

TRANSFORMER

CHAINLINK FENCE

FIBER

ATS

CSC

GEN

HH. V

G

LC

ΡВ

PP

TRN

D

GROUNDING TEST WELL

GENERATOR RECEPTACAL

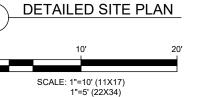
CELL SITE CABINET

HAND HOLE, VAULT

LIGHTING CONTROL

AUTOMATIC TRANSFER SWITCH

7' POWER CONDUIT TRENCH







**AMERICAN TOWER®**A.T. ENGINEERING SERVICE, PLLC

3500 REGENCY PARKWAY SUITE 100 CARY, NC 27518 PHONE: (919) 468-0112 COA: PEC.0001553

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ATC SITE NUMBER:

411260

ATC SITE NAME:

#### MIDDLEFIELD CT

SITE ADDRESS: 484 MERIDEN RD. MIDDLEFIELD. CT 06455

SEAL:



## T··Mobile

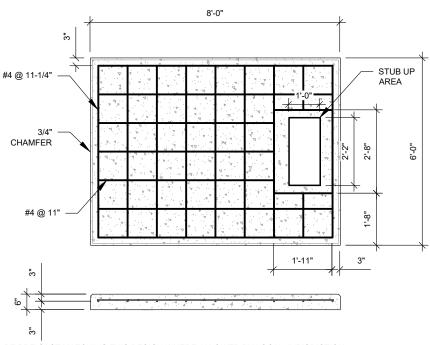
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APPROVED BY:	РВ
DATE DRAWN:	03/30/21
ATC JOB NO:	13348356_M4

SITE PLAN

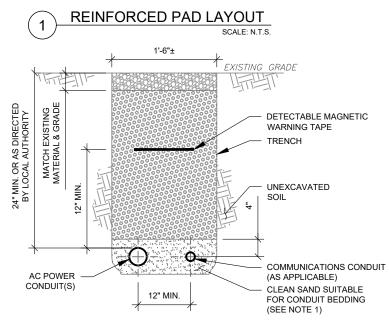
SHEET NUMBER:

C-101

REVISION



- PADS SHALL BE PRE-CAST MATCHING THIS DESIGN WHERE ALLOWED BY LOCAL JURISDICTION.
   PADS SHALL HAVE A MIN 28 DAY COMPRESSIVE STRENGTH AS SPECIFIED ON G-002, CONCRETE AND REINFORCING STEEL NOTES #3
- REFER TO CONCRETE & REINFORCED STEEL NOTES ON SHEET G-002 & ATC CONSTRUCTION SPECIFICATION 033000 FOR
- STUB UP AREA SHALL BE FILLED WITH QUIKRETE, OR APPROVED EQUAL, PRIOR TO FINAL SET OF GENERATOR ON PAD.
- AFTER FINAL SET OF GENERATOR ON PAD, GROUT ALL EXTERIOR OPENINGS AT PAD INTERFACE SO THAT FINISHED MAXIMUM
- 6. GROUT SHALL BE PER ATC CONSTRUCTION SPECIFICATION DIVISION 03, CONCRETE.

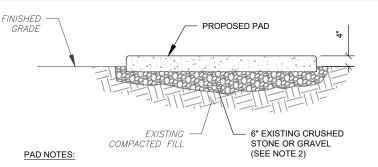


#### TRENCH NOTES:

PAD NOTES:

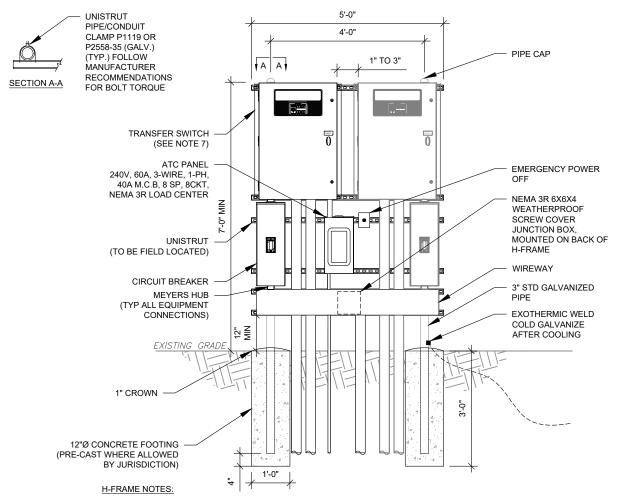
- IF FREE OF ORGANIC OR OTHER DELETERIOUS MATERIAL, EXCAVATED MATERIAL MAY BE USED FOR BACKFILL. IF NOT, PROVIDE CLEAN, COMPACTIBLE MATERIAL.
- COMPACT IN 8" LIFTS USING A MECHANICAL PLATE TAMPER, MIN 3 PASSES. REMOVE ANY LARGE ROCKS PRIOR TO BACKFILLING. CONTRACTOR TO VERIFY LOCATION OF EXISTING U/G UTILITIES PRIOR TO DIGGING. SEE ATC CONSTRUCTION SPECIFICATION 312000 SECTION 3.15.
- IF CURRENT AS-BUILT DRAWINGS ARE NOT AVAILABLE CONTRACTOR SHALL HAND DIG U/G TRENCHING. CONFIRM SPACING AND DEPTH WITH NEC OR LOCAL CODE REQUIREMENTS



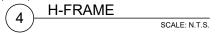


- SUBGRADE AND FILL SHALL CONSIST OF CLEAN SOIL. DELETRIOUS MATERIAL AND ORGANICS SHALL BE REMOVED.
- MECHANICALLY COMPACT FOOTPRINT OF PAD PLUS 2' PERIMETER USING A MECHANICAL PLATE TAMPER, MIN 3 PASSES. SEE ATC CONSTRUCTION SPECIFICATION 312000 ACCESS ROAD AND FARTH WORK
- 3. USE GALVANIZED HILTI EXPANSION ANCHORS OR, APPROVED EQUAL, FOR
- FOR SIZE AND LOCATION OF ANCHORS AND OTHER REQUIREMENT, SEE EQUIPMENT VENDOR DRAWINGS.

**GRAVEL PREPARATION** SCALE: N.T.S.



- IF IT IS NECESSARY TO EXTEND THE H-FRAME, AN ADDITIONAL POST SHALL BE REQUIRED.
- PROPOSED UNISTRUTS TO BE FIELD CUT AND SHALL NOT EXTEND MORE THAN 6 INCHES BEYOND THE LAST POST. SPRAY ENDS OF UNISTRUT WITH COLD GALVANIZING SPRAY PAINT, ALLOW TO DRY, THEN COVER WITH RUBBER
- PROTECTIVE CAPS FOR SAFETY.
- UNISTRUT TO BE CUT FLUSH WITH NO SHARP OR JAGGED EDGES.
- ALL PROPOSED HARDWARE TO BE MOUNTED AND GROUNDED PER MANUFACTURERS SPECS
- ALL ITEMS ARE PROPOSED UNLESS OTHERWISE NOTED.
- LAYOUT H-FRAME & PROPOSED EQUIPMENT EXACTLY AS SHOWN TO ALLOW FOR FUTURE EQUIPMENT. ANY DEVIATIONS MUST BE APPROVED BY ATC CM, IN WRITING, NO EXCEPTIONS.
- FOOTINGS SHALL BE ONE OF THE FOLLOWING: USS POLECRETE STABILIZER SYSTEM, PRECAST CONCRETE (WHERE ALLOWED BY JURISDICTION) OR CAST IN PLACE. FOR PRECAST FOOTINGS, CONTRACTORS SHALL THOROUGHLY COMPACT THE PERIMETER (2' MIN) OF FOOTING WITH MECHANICAL PLATE TAMPER.





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ATC SITE NUMBER:

411260

ATC SITE NAME:

#### MIDDLEFIELD CT

SITE ADDRESS: 484 MERIDEN RD. MIDDLEFIELD, CT 06455



### T·Mobile

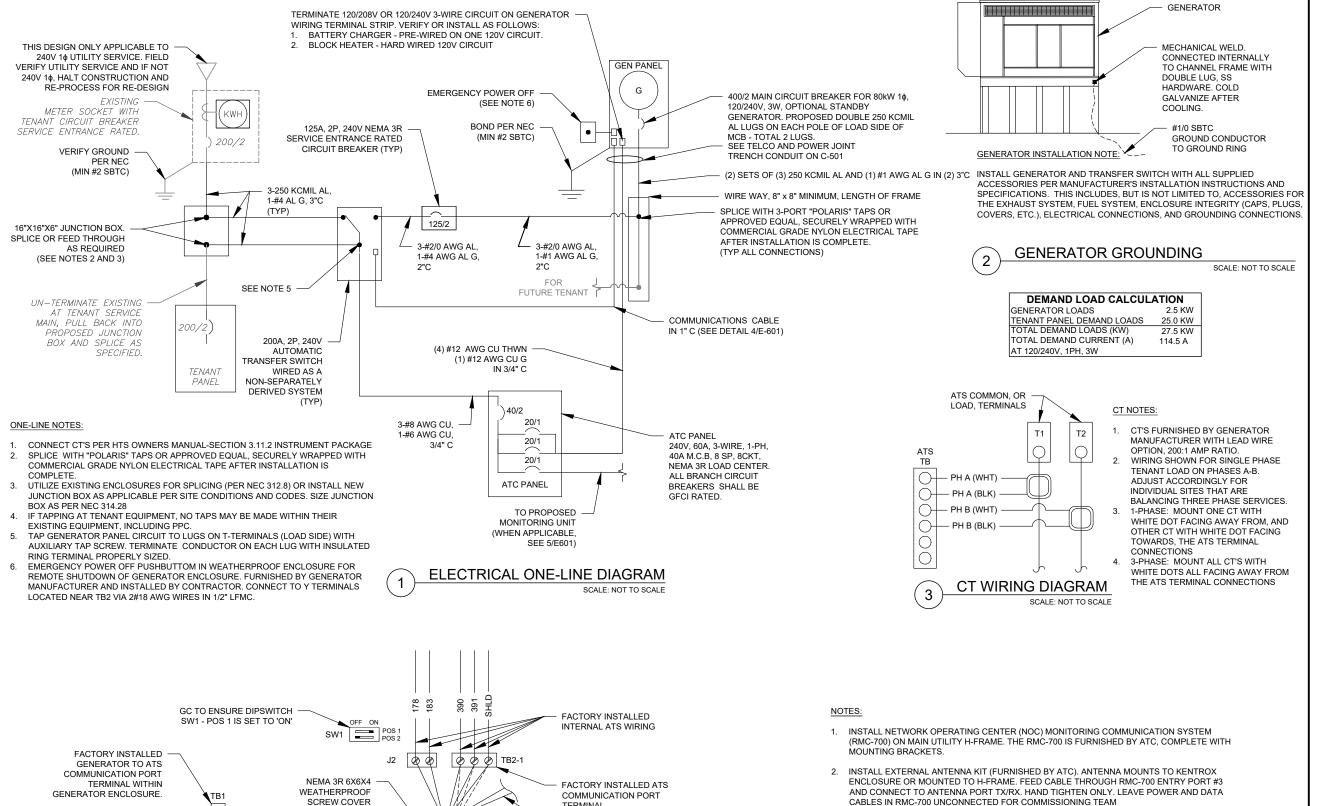
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DATE DRAWN:	03/30/21
ATC JOB NO:	13348356_M4

#### **CONCRETE PAD DETAILS**

SHEET NUMBER:

C-501

REVISION



CONNECT TO E-STOP BUTTON

MOUNTED ON ATS H-FRAME

WIRING CONNECTION TO NEXT FUTURE ATS

KNOCK OUT REMOVED FOR

CONDUIT TO FUTURE ATS

1 - 0

2 - 183

15A/220A

15A1/220A1

4 - 390/485+ 5 - 391/485-6 - SHLD

0 8

JUNCTION BOX

2-#14 AWG CU

2 WIRE ENGINE START

2 WIRE E-STOP

TO GENERATOR PANEL. CONNECT PER

SCALE: NOT TO SCALE

MANUFACTURER'S SPECIFICATIONS (DO NOT CONNECT "SHLD" AT GENERATOR)

COMMUNICATIONS CABLE DETAIL

2#18 AWG CU

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ATC SITE NUMBER:

411260

ATC SITE NAME:

#### MIDDLEFIELD CT

SITE ADDRESS: 484 MERIDEN RD. MIDDLEFIELD, CT 06455

3. BRANCH CIRCUIT WIRING FOR MONITORING DEVICE SHALL BE 2-#12 AWG CU. 1-#12 AWG CU

PROPOSED MONITORING

SCALE: NOT TO SCALE

G IN 3/4" C



## T·Mobile

DRAWN BY:	AB
APPROVED BY:	PB
DATE DRAWN:	03/30/21
ATC JOB NO:	13348356_M4

**ELECTRICAL ONE-LINE** AND WIRING DETAILS

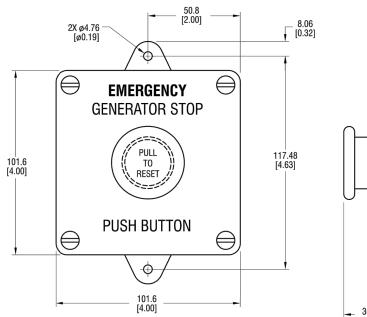
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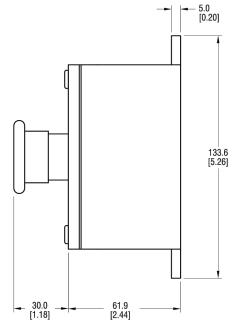
REVISION

E-601

#### GENERAC INDUSTRIAL

## REMOTE EMERGENCY STOP SWITCH SURFACE MOUNT, H-PANEL





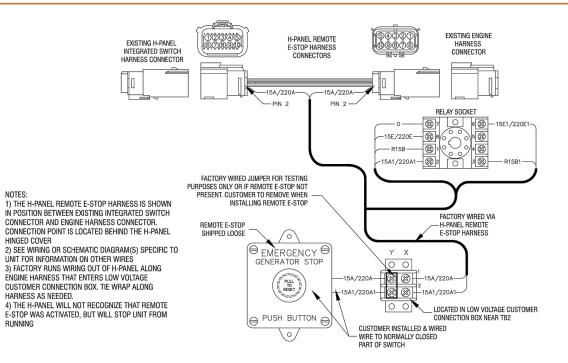
• MANUFACTURER: PILLA ELECTRICAL PRODUCTS, INC.

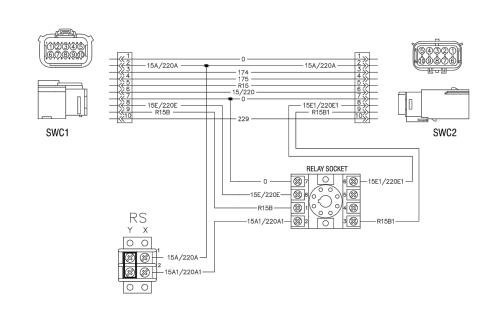
- MODEL SG120
- GENERAC PART NUMBER 061129E
- SURFACE MOUNT, NEMA 4X
- NONMETALLIC BACKBOX

DIMENSIONS: mm[INCHES]

### GENERAC INDUSTRIAL POWER

# REMOTE EMERGENCY STOP SWITCH SURFACE MOUNT, H-PANEL





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Part No. 0L6260 Rev A 10/15/15 GENSET CONTROLS

**SUPPLEMENTAL** 

SHEET NUMBER:

R-601

REVISION:

E-STOP SWITCH

1 OF 2

#### **STANDBY POWER RATING**

80 kW, 100 kVA, 60 Hz

#### **PRIME POWER RATING\***

72 kW, 90 kVA, 60 Hz





\*Built in the USA using domestic and foreign parts

<sup>\*\*</sup>Certain options or customization may not hold certification valid.

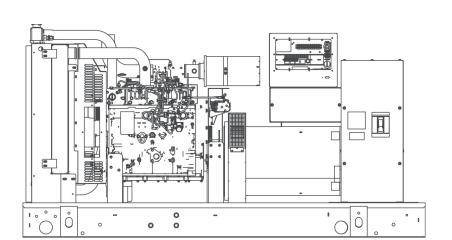


Image used for illustration purposes only

#### **CODES AND STANDARDS**

Generac products are designed to the following standards:



UL2200, UL508, UL142, UL498



NFPA70, 99, 110, 37



NEC700, 701, 702, 708



ISO9001, 8528, 3046, 7637, Pluses #2b, 4



NEMA ICS10, MG1, 250, ICS6, AB1



ANSI 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.

<sup>\*</sup>EPA Certified Prime ratings are not available in the U.S. or its Territories.

#### **SD080** | 4.5L | 80 kW

#### INDUSTRIAL DIESEL GENERATOR SET

**EPA Certified Stationary Emergency** 

#### STANDARD FEATURES

#### **ENGINE SYSTEM**

#### General

- · Oil Drain Extension
- Air Cleaner
- · Fan Guard
- · Stainless Steel flexible exhaust connection
- · Critical Exhaust Silencer (enclosed only)
- · Factory Filled Oil
- · Radiator Duct Adapter (open set only)

#### **Fuel System**

- · Fuel lockoff solenoid
- · Primary fuel filter

#### **Cooling System**

- · Closed Coolant Recovery System
- · UV/Ozone resistant hoses
- · Factory-Installed Radiator
- · Radiator Drain Extension
- 50/50 Ethylene glycol antifreeze
- 120 VAC Coolant Heater

#### **Engine Electrical System**

- · Battery charging alternator
- Battery cables
- · Battery tray
- · Solenoid activated starter motor
- Rubber-booted engine electrical connections

#### **ALTERNATOR SYSTEM**

- UL2200 GENprotect™
- 12 leads (3-phase, non 600 V)
- · Class H insulation material
- Vented rotor
- 2/3 pitch
- · Skewed stator
- · Auxiliary voltage regulator power winding
- · Amortisseur winding
- · Brushless Excitation
- · Sealed Bearings
- Automated manufacturing (winding, insertion, lacing, varnishing)
- Rotor dynamically spin balanced
- · Full load capacity alternator
- · Protective thermal switch

#### **GENERATOR SET**

- · Internal Genset Vibration Isolation
- · Separation of circuits high/low voltage
- · Separation of circuits multiple breakers
- · Silencer Heat Shield
- · Wrapped Exhaust Piping
- · Silencer housed in discharge hood (enclosed only)
- · Standard Factory Testing
- · 2 Year Limited Warranty (Standby rated Units)
- 1 Year Limited Warranty (Prime rated Units)
- · Silencer mounted in the discharge hood (enclosed only)

#### **ENCLOSURE (IF SELECTED)**

- Rust-proof fasteners with nylon washers to protect finish
- · High performance sound-absorbing material
- · Gasketed doors
- · Stamped air-intake louvers
- · Air discharge hoods for radiator-upward pointing
- · Stainless steel lift off door hinges
- · Stainless steel lockable handles
- Rhino Coat<sup>™</sup> Textured polyester powder coat

#### TANKS (IF SELECTED)

- UL 142
- · Double wall
- Vents
- Sloped top
- Sloped bottom
- · Factory pressure tested (2 psi)
- Rupture basin alarm
- Fuel level
- · Check valve in supply and return lines
- Rhino Coat<sup>™</sup>- Textured polyester powder coat
- Stainless hardware

#### **CONTROL SYSTEM**



#### **Control Panel**

- Digital H Control Panel Dual 4x20 Display
- · Programmable Crank Limiter
- 7-Day Programmable Exerciser
- · Special Applications Programmable PLC
- RS-232/485
- · All-Phase Sensing DVR
- · Full System Status
- · Utility Monitoring
- · Low Fuel Pressure Indication
- 2-Wire Start Compatible
- · Power Output (kW)

- Power Factor
- kW Hours, Total & Last Run
- · Real/Reactive/Apparent Power
- All Phase AC Voltage
- · All Phase Currents
- Oil Pressure
- · Coolant Temperature
- · Coolant Level
- Engine Speed
- Battery VoltageFrequency
- Date/Time Fault History (Event Log)
- Isochronous Governor Control
- · Waterproof/sealed Connectors
- Audible Alarms and Shutdowns
- Not in Auto (Flashing Light)Auto/Off/Manual Switch
- E-Stop (Red Mushroom-Type)
- NFPA110 Level I and II (Programmable)
- Customizable Alarms, Warnings, and Events
- Modbus protocol
- Predictive Maintenance algorithm
- Sealed Boards
- Password parameter adjustment protection

- Single point ground
- 15 channel data logging
- 0.2 msec high speed data logging
- Alarm information automatically comes up on the display

#### Alarms

- Oil Pressure (Pre-programmable Low Pressure Shutdown)
- Coolant Temperature (Pre-programmed High Temp Shutdown)
- Coolant Level (Pre-programmed Low Level Shutdown)
- Low Fuel Pressure Alarm
- Engine Speed (Pre-programmed Over speed Shutdown)
- Battery Voltage Warning
- Alarms & warnings time and date stamped
- Alarms & warnings for transient and steady state conditions
- Snap shots of key operation parameters during alarms & warnings
- Alarms and warnings spelled out (no alarm codes)

#### SD080

#### | 4.5L | 80 kW

INDUSTRIAL GENERAC

#### INDUSTRIAL DIESEL GENERATOR SET

**EPA Certified Stationary Emergency** 

#### **CONFIGURABLE OPTIONS**

#### **ENGINE SYSTEM**

#### General

- O Oil Heater
- O Industrial Exhaust Silencer

#### **Fuel System**

- O Flexible fuel lines
- O Primary fuel filter

#### **Engine Electrical System**

- O 10A UL battery charger
- O 2.5A UL battery charger
- O Battery Warmer

#### ALTERNATOR SYSTEM

- O Alternator Upsizing
- O Anti-Condensation Heater
- O Tropical coating
- O Permanent Magnet Excitation

#### **ENGINEERED OPTIONS**

#### **ENGINE SYSTEM**

- O Coolant heater ball valves
- O Block Heaters
- O Fluid containment pans

#### **ALTERNATOR SYSTEM**

O 3rd Breaker Systems

#### **CONTROL SYSTEM**

- O Spare inputs (x4) / outputs (x4) H Panel Only
- O Battery Disconnect Switch

#### **CIRCUIT BREAKER OPTIONS**

- O Main Line Circuit Breaker
- O 2nd Main Line Circuit Breaker
- O Shunt Trip and Auxiliary Contact
- O Electronic Trip Breaker

#### **GENERATOR SET**

- O Gen-Link Communications Software (English Only)
- O IBC Seismic Certification
- O 8 Position Load Center
- O 2 Year Extended Warranty
- O 5 Year Warranty
- O 5 Year Extended Warranty

#### **ENCLOSURE**

- O Weather Protected
- O Level 1 Sound Attenuation
- O Level 2 Sound Attenuation
- O Steel Enclosure
- O Aluminum Enclosure
- O 150 MPH Wind Kit
- O 12 VDC Enclosure Lighting Kit
- O 120 VAC Enclosure Lighting Kit
- O AC/DC Enclosure Lighting Kit
- O Door Alarm Switch

#### TANKS (Size on last page)

- O Electrical Fuel Level
- O Mechanical Fuel Level
- O 8" Fill Extension
- O 13" Fill Extension
- O 19" Fill Extension

#### **CONTROL SYSTEM**

- O 21-Light Remote Annunciator
- O Remote Relay Panel (8 or 16)
- O Oil Temperature Sender with Indication Alarm
- O Remote E-Stop (Break Glass-Type, Surface Mount)
- O Remote E-Stop (Red Mushroom-Type, Surface Mount)
- O Remote E-Stop (Red Mushroom-Type, Flush Mount)
- O Remote Communication Modem
- O Remote Communication Ethernet
- O 10A Run Relay
- O Ground Fault Indication and Protection Functions

#### **GENERATOR SET**

O Special Testing

#### **ENCLOSURE**

- O Motorized Dampers
- O Door switched for intrusion alert
- O Enclosure ambient heaters

#### TANKS

- O Overfill Protection Valve
- O UL2085 Tank
- O ULC S-601 Tank
- O Stainless Steel Tank
- O Special Fuel Tanks (MIDEQ and FL DEP/DERM, etc.)
- O Vent Extensions

#### **RATING DEFINITIONS**

Standby - Applicable for a varying emergency load for the duration of a utility power outage with no overload capability.

Prime - Applicable for supplying power to a varying load in lieu of utility for an unlimited amount of running time. A 10% overload capacity is available for 1 out of every 12 hours. The Prime Power option is only available on International applications. Power ratings in accordance with ISO 8528-1, Second Edition

| **4.5L** | 80 kW INDUSTRIAL DIESEL GENERATOR SET

**EPA Certified Stationary Emergency** 

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

General		Cooling System	
Make	Iveco/FPT	Cooling System Type	Closed
EPA Emissions Compliance	Stationary Emergency	Water Pump	Belt Driven Centrifugal
EPA Emissions Reference	See Emissions Data Sheet	Fan Type	Pusher
Cylinder #	4	Fan Speed (rpm)	2538
Туре	In-Line	Fan Diameter mm (in)	660.4 (26)
Displacement - L (cu ln)	4.5 (274.6)	Coolant Heater Wattage	1500
Bore - mm (in)	105 (4.1)	Coolant Heater Standard Voltage	120 V /240 V
Stroke - mm (in)	132 (5.2)		
Compression Ratio	17.5:1		
Intake Air Method	Turbocharged/Aftercooled	Fuel System	
Cylinder Head Type	2 Valve	Fuel Type	Ultra Low Sulfur Diesel Fue
Piston Type	Aluminium	Fuel Specifications	ASTM
Crankshaft Type	Forged Steel	Fuel Filtering (microns)	5
		Fuel Injection	Stanadyne
Engine Governing		Fuel Pump Type	Engine Driven Gear
Governor	Electronic Isochronous	Injector Type	Mechanical
Frequency Regulation (Steady State)	+/- 0.25%	Fuel Supply Line mm (in)	12.7 (0.5) NPT
Lubrication System		Fuel Return Line mm (in)	12.7 (0.5) NPT
Oil Pump Type	Gear	- · · · · · · · · · · · · · · · · ·	
Oil Filter Type	Full Flow	Engine Electrical System	
Crankcase Capacity - L (qts)	13.6 (14.4)	System Voltage	12 VDC
		Battery Charging Alternator	20 A
		Battery Size	See Battery Index 0161970SBY
		Battery Voltage	12 VDC
		Ground Polarity	Negative

#### **ALTERNATOR SPECIFICATIONS**

Standard Model	390
Poles	4
Field Type	Revolving
Insulation Class - Rotor	Н
Insulation Class - Stator	Н
Total Harmonic Distortion	<3%
Telephone Interference Factor (TIF)	< 50

Standard Excitation	Synchronous Brushless
Bearings	One-Pre Lubed & Sealed
Coupling	Direct, Flexible Disc
Load Capacity - Standby	100%
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Digital
Number of Sensed Phases	3
Regulation Accuracy (Steady State)	±0.25%

#### **OPERATING DATA**

#### **POWER RATINGS**

	Standby		
Single-Phase 120/240 VAC @1.0pf	80 kW	Amps:	333
Three-Phase 120/208 VAC @0.8pf	80 kW	Amps:	278
Three-Phase 120/240 VAC @0.8pf	80 kW	Amps:	241
Three-Phase 277/480 VAC @0.8pf	80 kW	Amps:	120
Three-Phase 346/600 VAC @0.8pf	80 kW	Amps:	96

#### STARTING CAPABILITIES (sKVA)

sKVA vs. Voltage Dip

		480 VAC						208/24	10 VAC				
<u>Alternator</u>	<u>kW</u>	10%	15%	20%	25%	30%	35%	10%	15%	20%	25%	30%	35%
Standard	80	59	88	117	147	176	205	44	66	88	110	132	154
Upsize 1	100	79	118	157	197	236	275	59	89	118	148	177	206
Upsize 2	130	116	174	232	290	348	406	87	131	174	218	261	305

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

Diesel - gal/hr (l/hr)

INDUSTRIAL

Fuel Pump Lift - ft (m)	Percent Load	Standby
3 (1)	25%	2.1 (7.9)
	50%	3.7 (14.0)
Total Fuel Pump Flow (Combustion + Return)	75%	5.2 (19.7)
13.6 gal/hr	100%	6.3 (23.8)

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

#### COOLING

		Standby
Coolant Flow per Minute	gal/min (l/min)	32.7 (123.8)
Coolant System Capacity	gal (L)	4.5 (17.44)
Heat Rejection to Coolant	BTU/hr	232,270
Inlet Air	cfm (m³/hr)	6360 (180)
Max. Operating Radiator Air Temp	Fo (Co)	122 (50)
Max. Ambient Temperature (before derate)	Fo (Co)	104 (40)
Maximum Radiator Backpressure	in H <sub>2</sub> O	0.5

#### **COMBUSTION AIR REQUIREMENTS**

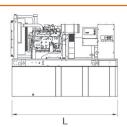
		Standby
Flow at Rated Power	cfm (m³/min)	306 (8.67)

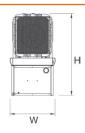
ENGINE			EXHAUST		
		Standby			Standby
Rated Engine Speed	rpm	1800	Exhaust Flow (Rated Output)	cfm (m³/min)	782 (22.14)
Horsepower at Rated kW**	hp	131	Max. Backpressure (Post Silencer)	inHg (Kpa)	1.5 (5.1)
Piston Speed	ft/min (m/min)	1559 (475)	Exhaust Temp (Rated Output)	°F (°C)	887 (475)
BMEP	psi	210	Exhaust Outlet Size (Open Set)	mm (in)	76.2 (3.0)

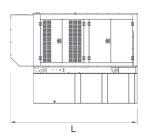
<sup>\*\*</sup> Refer to "Emissions Data Sheet" for maximum bHP for EPA and SCAQMD permitting purposes.

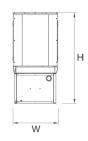
#### **DIMENSIONS AND WEIGHTS\***

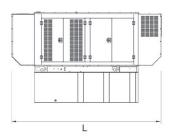
**EPA Certified Stationary Emergency** 

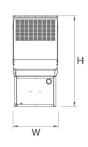


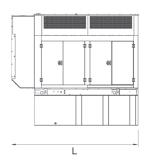


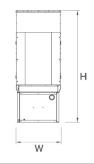












YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER

#### **OPEN SET**

RUN TIME HOURS	USABLE CAPACITY GAL (L)	L x W x H in (mm)	WT lbs (kg) - Tank & Open Set
NO TANK	-	93 (2362.2) x 40 (1016) x 49 (1244.6)	2425 (1100)
13	79 (299)	93 (2362.2) x 40 (1016) x 62 (1574.8)	2947 (1201)
30	189 (715.4)	93 (2362.2) x 40 (1016) x 74 (1879.6)	3183 (1444)
48	300 (1135.6)	93 (2362.2) x 40 (1016) x 86 (2184.4)	3407 (1545)
56	350 (1325)	110 (2794) x 40 (1016) x 86 (2184.4)	NA
81	510 (1930.5)	117 (2971.8) x 47 (1193.8) x 86 (2184.4)	3790 (1719)
93	589 (2229.6)	128 (3251.2) x 49 (1244.6) x 86 (2184.4)	4269 (1936)

#### STANDARD ENCLOSURE

RUN TIME	USABLE CAPACITY	L x W x H in (mm)	WT lbs (kg) -	Enclosure Only
HOURS	GAL (L)	L X W X I I III (I I II II)	Steel	Aluminum
NO TANK	-	112 (2844.8) x 41 (1041.4) x 56 (1422.4)	_	
13	79 (299)	112 (2844.8) x 41 (1041.4) x 69 (1752.6)		
30	189 (715.4)	112 (2844.8) x 41 (1041.4)x 81 (2057.4)		
48	300 (1135.6)	112 (2844.8) x 41 (1041.4) x 93 (2362.2)	425 (193)	155 (70)
56	350 (1325)	112 (2844.8) x 41 (1041.4) x 93 (2362.2)	_	
81	510 (1930.5)	117 (2971.8) x 47 (1193.8) x 93 (2362.2)	_	
93	589 (2229.6)	128 (3251.2) x 49 (1244.6) x 93 (2362.2)		

#### **LEVEL 1 ACOUSTIC ENCLOSURE**

RUN TIME	USABLE CAPACITY	L v W v H in /mm\	WT lbs (kg) -	Enclosure Only
HOURS	GAL (L)	L x W x H in (mm)	Steel	Aluminum
NO TANK	-	130 (3302) x 41 (1041.4) x 56 (1422.4)	_	
13	79 (299)	130 (3302) x 41 (1041.4) x 69 (1752.6)	_	
30	189 (715.4)	130 (3302) x 41 (1041.4) x 81 (2057.4)		
48	300 (1135.6)	130 (3302) x 41 (1041.4) x 93 (2362.2)	450 (204)	285 (129)
56	350 (1325)	130 (3302) x 41 (1041.4) x 93 (2362.2)		
81	510 (1930.5)	130 (3302) x 47 (1193.8) x 93 (2362.2)		
93	589 (2229.6)	130 (3302) x 49 (1244.6) x 93 (2362.2)	_	

#### **LEVEL 2 ACOUSTIC ENCLOSURE**

RUN TIME HOURS	USABLE CAPACITY GAL (L)	L x W x H in (mm)	WT lbs (kg) - Enclosure Only	
			Steel	Aluminum
NO TANK	-	112 (2844.8) x 41 (1041.4) x 69 (1752.6)		
13	79 (299)	112 (2844.8) x 41 (1041.4) x 82 (2082.8)		
30	189 (715.4)	112 (2844.8) x 41 (1041.4) x 94 (2387.6)		
48	300 (1135.6)	112 (2844.8) x 41 (1041.4) x 106 (2692.4)	625 (284)	395 (180)
56	350 (1325)	112 (2844.8) x 41 (1041.4) x 106 (2692.4)		
81	510 (1930.5)	117 (2971.8) x 47 (1193.8) x 106 (2692.4)		
93	589 (2229.6)	128 (3251.2) x 49 (1244.6) x 106 (2692.4)		

<sup>\*</sup>All measurements are approximate and for estimation purposes only. Sound dBA can be found on the sound data sheet. Enclosure Only weight is added to Tank & Open Set weight to determine total weight.

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.