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Daniel Patrick dpatrick@cuddyfeder.com

11/23/20

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

Re: New Cingular Wireless PCS, LLC ("AT&T") Notice of Exempt Modification Emergency Back-up Generator 39 Ciro Road, North Branford, CT 06471 Lat.: 41.33109° Long.:-72.75618°

Dear Ms. Bachman:

This letter and enclosures are respectfully submitted on behalf of New Cingular Wireless PCS, LLC ("AT&T"). AT&T currently maintains its wireless telecommunications facility at 39 Ciro Road in the Town of North Branford, Connecticut. SBA Properties, Inc. is the owner of the underlying property and the tower. AT&T submits this letter and enclosures to the Connecticut Siting Council ("Council") to notify the Council of AT&T's intent to perform modifications to the existing facility that do not have substantial adverse environmental effects and thus do not require a certificate pursuant to Section 16-50k of the Connecticut General Statutes.

AT&T intends to install one (1) new Generac 30KW Diesel Generator within the existing gradelevel fenced equipment compound as demonstrated on the plans enclosed as Attachment 1. AT&T's existing facility supports its FirstNet program which provides first responders with priority access to AT&T's network to ensure adequate communication capabilities in the event of emergency. AT&T's proposed generator will ensure that critical communication capability for first responders and the public are not lost in the event of a loss of power.

AT&T's proposed generator will also advance the State's goal of natural disaster and emergency preparedness. As discussed in the Council's Docket 432 Findings and Report and Docket 440 proceedings and Findings of Fact (Nos. 76- 77), in response to two significant storm events in 2011, the State formed a Two Storm Panel (the "Panel") that evaluated Connecticut's approach to

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planning and mitigation of impacts associated with emergencies and natural disasters. The Panel found that "wireless telecommunications service providers were not prepared to serve residential and business customers during a power outage" because certain companies had limited backup generator capacity.<sup>1</sup> The Panel also noted that "[t]he failure of a large portion of Connecticut's telecommunications system during the two storms is a life safety issue." The Panel recommended that State regulatory bodies review "telecommunications services currently in place to verify that the vendors have sufficient generator and backhaul capacity to meet the emergency needs of consumers and businesses" and that the "Connecticut Siting Council should require continuity of service plans for any cellular tower to be erected."<sup>2</sup> The planned modifications will ensure continuity of services by reinforcing AT&T's back-up power and backhaul capacity to meet the emergency needs of first responders, consumers and businesses in the event of a power outage.

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

- Will not result in an increase in the height of the existing structure;
- Will not require the extension of the site boundary;
- Will not increase noise levels at the facility by more than six decibels or more, or to levels that exceed state or local criteria since emergency backup generators are exempt from noise regulations as "noise created as a result of, or relating to, an emergency";<sup>3</sup>
- Will not increase radio frequency emission at the facility to a level at or above the Federal Communications Commission safety standards;
- Will not cause a change or alteration in the physical or environmental characteristics of the site; and
- Will not impair the structural integrity of the facility.

The facility was originally approved by the Town of North Branford Zoning Board of Appeals on June 18, 2001 and the Council approved the shared use of this facility in Petition No. 564. The Staff Report from Petition No. 564 dated June 25, 2002 is included as Attachment 2. This modification complies with the conditions of the aforementioned approvals.

<sup>&</sup>lt;sup>1</sup> See Council Administrative Notice Item No. 39

<sup>&</sup>lt;sup>2</sup> See Council Administrative Notice Item No. 39.

<sup>&</sup>lt;sup>3</sup> R.C.S.A. § 22a-69-1.8.



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The proposed modifications will have no impact on the existing tower structure itself or the radiofrequency emissions as the proposed modifications only consist of the addition of one new generator within the grade-level fenced equipment compound. Thus, AT&T respectfully requests a waiver from submission of information relating to the existing tower structure or the radiofrequency emissions. AT&T also notes that there will be no changes to the frequencies or services supported by this facility.

Please accept this letter as notification pursuant to R.C.S.A. § 16-50j-73 for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-73. In accordance with R.C.S.A. § 16-50j-73, a copy of this letter and enclosure are being sent by email to Mayor Bob Viglione and the Planning & Zoning Department as well as by first class mail to SBA Properties, Inc. as the owner of the structure and underlying property. Certificate of mailing is enclosed as Attachment 3.

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

Very truly yours,

**Daniel Patrick** 

Attachments

cc: Mayor Bob Viglione, Town of North Branford (via email)
Carey Duques, Town Planner (via email)
SBA Properties, Inc., Tower and Property Owner (via first-class mail)
AT&T
General Dynamics Information Technology
Lucia Chiocchio, Esq. & Julie Durkin, Cuddy & Feder, LLP

# ATTACHMENT 1



# SITE NAME: NORTH BRANFORT EAST FA LOCATION CODE: 10071170 SBA SITE NUMBER: CT04066-S

MIR

© Copyright 2020 - Ramaker \$ Assoc DRAWN BY: TR

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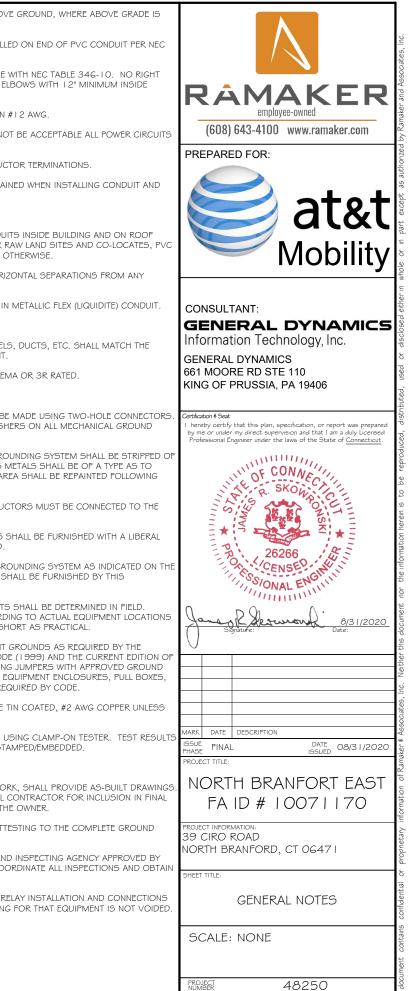
# GENERATOR PROJECT 30KW GENERAC DIESEL GENERATOR 200A GENERAC ATS

# 39 CIRO R NORTH BRANFO

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C:\Users\rguerrero\appdata\local\temp\AcPublish_5&76\4&250_100/11/0_NOK1I1 bKANFUK		PROJECT MANAGER:         JOE JARVIS         MARKET LEAD         GENERAL DYNAMICS WIRELESS SERVICES         GG I MOORE RD STE I 10         KING OF PRUSSIA, PA 1940G         EMAIL:       joseph.jarvis@gdit.com         ENGINEER:         RAMAKER & ASSOCIATES, INC.         855 COMMUNITY DRIVE         SAUK CITY, WI 53583         PH:: (608) 643-4100         FAX: (608) 643-7999         CONTACT: TYLER BEATTY         EMAIL:       tbeatty@ramaker.com         APPLICANT INFORMATION:         AT&T MOBILITY         7 150 STANDARD DR         HANOVER, MD 21076	SITE DATA: SITE NAME: NORTH BRANFORT EAST FA NUMBER: 10071170 PROPERTY OWNER: SBA TOWERS 8051 CONGRESS AVENUE BOCA RATON, FL 33487 ADDRESS: 39 CIRO ROAD NORTH BRANFORD, CT 06471 COUNTY: NEW HAVEN LAT.: 41.33109° LONG: -72.75618° GROUND ELEVATION: 101 FT AMSL DO NOT SCALE DRAWINGS: CONTRACTOR SHALL VERIFY ALL PLANS & EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME. THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO THE CLIENT IS STRICTLY PROHIBITED.	GENERAL: T-1 TITLE SHEET NOTES: N-1 GENERAL NOTES SITE: A-1 SITE PLAN & EQUIPMENT LAYOUT S-1 FOUNDATION DETAILS ELECTRICAL & GROUNDING: E-1 WIRING DETAILS E-2 PANEL AND PENETRATION DETAILS E-3 ATS, CONDUIT & GROUND ROD DETAILS E-4 GENERAC GENERATOR SPECIFICATIONS E-4.2 GENERAC GENERATOR SPECIFICATIONS E-5 GENERAC ATS SPECIFICATIONS E-5.1 GENERAC ATS SPECIFICATIONS E-5.1 GENERAC ATS SPECIFICATIONS	AT&T MGR. GENERAL DYN CONSTRUCTIO

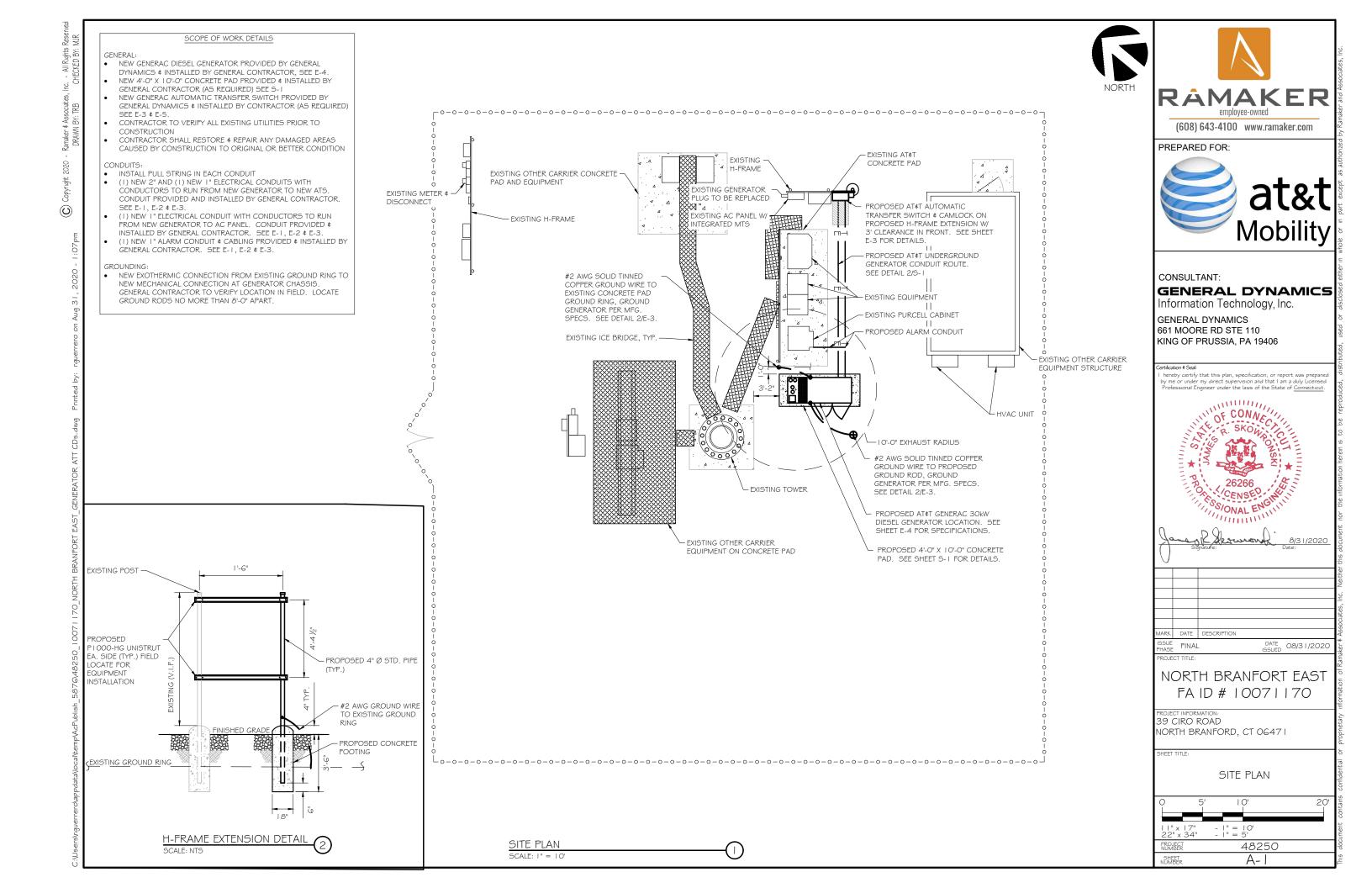
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¢ STANDARDS	CONSULTANT: GENERAL DYNAMICS
ED IN ACCORDANCE WITH THE CURRENT ERNING LOCAL AUTHORITIES. NOTHING IOT CONFORMING TO THESE CODES:	Information Technology, Inc. GENERAL DYNAMICS 661 MOORE RD STE 110 KING OF PRUSSIA, PA 19406
REQUIREMENTS FOR STRUCTURAL	Certification & Seal:   hereby certify that this plan, specification, or report was prepared
IUAL OF STEEL CONSTRUCTION	by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of <u>Connecticut</u> .
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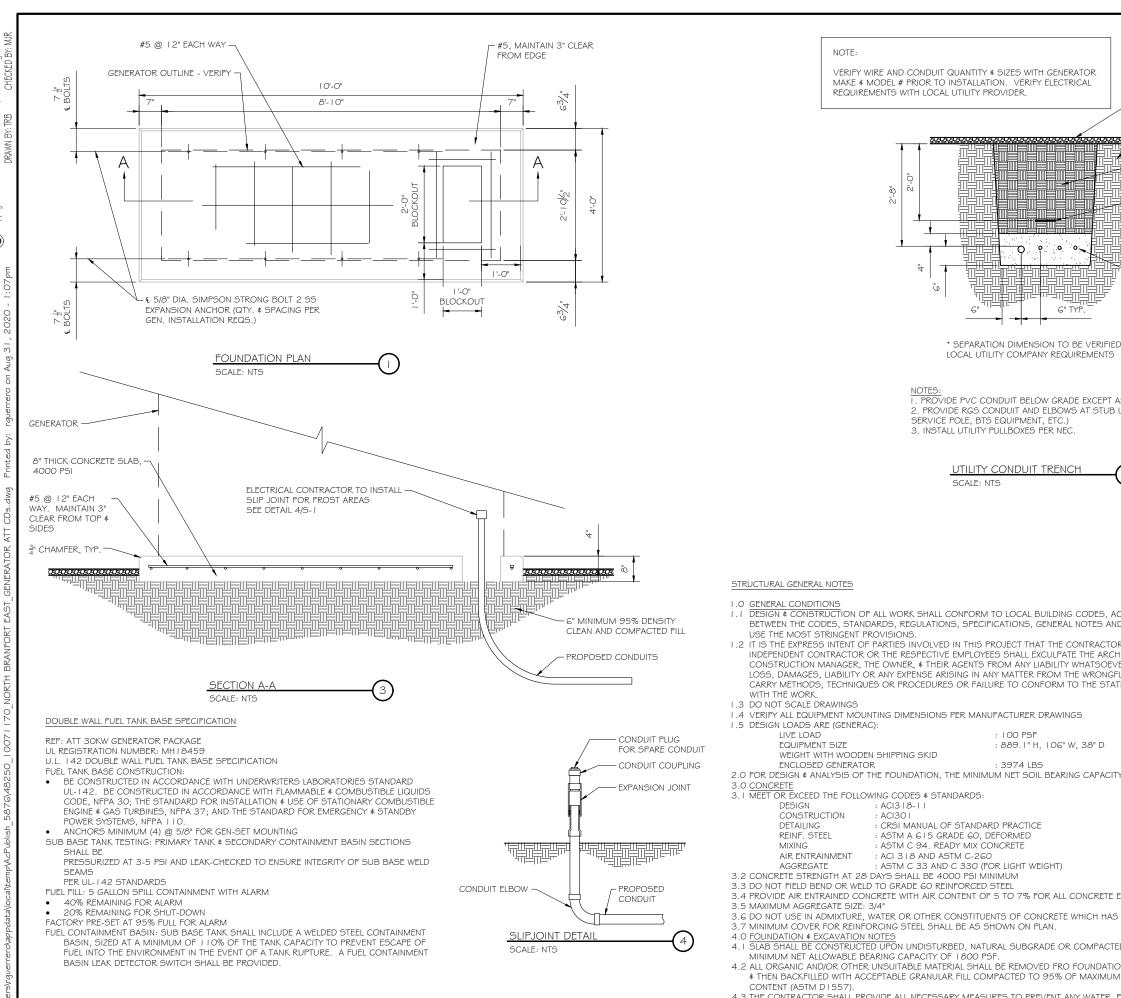
Keser MJR	NOTES TO SUBCONTRACTOR:	ACCESS IS REQUIRED)	<ol> <li>SCHEDULE 80 PVC CONDUIT SHALL BE USED ABOVE GR DEFINED AS THE GROUND OF THE TURN-UP</li> </ol>
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- AII HECKI	2. IT IS THE INTENTION OF THESE DRAWINGS TO SHOW THE COMPLETED INSTALLATION. THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY BRACING, SHORING, TIES, FORM WORK, ETC. IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL ORDINANCES, TO SAFELY EXECUTE ALL WORK AND SHALL BE RESPONSIBLE FOR SAME. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES.	5. OUTDOOR STORAGE AND SOLID WASTE CONTAINERS ARE NOT PROPOSED.	5. CONDUIT BENDS SHALL BE MADE IN ACCORDANCE WITH
ates, Inc. 3 C		6. ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.	ANGLE DEVICE OTHER THAN STANDARD CONDUIT ELBOW SWEEPS FOR ALL CONDUITS 2" OR LARGER.
4550clat 3Y: TRB		7. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY THE CONSTRUCTION OPERATION.	6. POWER WIRING SIZE SHALL NOT BE SMALLER THAN #12
camaker \$ , DRAWN E	3. THE SUBCONTRACTOR SHALL USE ADEQUATE NUMBER OF SKILLED WORKMAN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND METHOD NEEDED FOR PROPER PERFORMANCE	8. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTION REQUIRED FOR CONSTRUCTION.	7. ALL WIRING SHALL BE COPPER. ALUMINUM WILL NOT BE SHALL CONTAIN A GROUND WIRE.
- 0	OF THE WORK.	9. SUBCONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.	8. PHASE MARKINGS TO BE USED AT POWER CONDUCTOR
right 2020	4. CONSTRUCTION SUBCONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION SUBCONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND CONSTRUCTION SUBCONTRACTOR FURTHER AGREES TO INDEMNIFY AND HOLD DESIGN ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN	ELECTRICAL NOTES: A. GENERAL	<ol> <li>CONTRACTOR SHALL ENSURE INTEGRITY IS MAINTAINED WIRING.</li> </ol>
Lopyr			I.O. INSTALL PULL STRING IN ALL CONDUIT.
0		COORDINATE LOCATION AND POWER REQUIREMENTS OF ALL EQUIPMENT WITH AT&T AND     EQUIPMENT SUPPLIER PRIOR TO INSTALLATION.	I I. FOR ROOFTOP INSTALLS AND BUILD-OUTS, CONDUITS IN SHALL BE RGS, UNLESS OTHERWISE NOTED. FOR RAW L
l :07pm	CONNECTION WITH PERFORMANCE OF WORK ON THIS PROJECT. 5. SITE GROUNDING SHALL COMPLY WITH AT¢T WIRELESS SERVICES TECHNICAL SPECIFICATIONS FOR FACILITY GROUNDING FOR CELL SITE STANDARDS, LATEST EDITION, AND COMPLY WITH AT¢T	<ol> <li>COORDINATE LOCATION AND REQUIREMENTS FOR ELECTRICAL AND TELEPHONE SERVICES WITH THE PROPERTY REPRESENTATIVE, AT≰T AND UTILITY COMPANIES. ROUTING OF CONDUITS MAY BE MODIFIED TO MEET SITE REQUIREMENTS. EXACT CONDUIT ROUTING TO BE DETERMINED IN THE FIELD.</li> </ol>	SCHEDULE &O SHALL BE UTILIZED UNLESS NOTED OTHER 12. MAINTAIN MINIMUM 1'-O" VERTICAL AND 1'-O" HORIZONT. MECHANICAL GAS PIPING.
20 -	TOWERS GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN. GROUNDING SHALL BE COMPLETED BEFORE	3. ALL WIRING AND EQUIPMENT SHOWN ON ELECTRICAL SHEETS SHALL BE FURNISHED AND	13. ALL WIRING ROUTED IN PLENUM TO BE RATED OR IN MET
, 20	ERECTION OF TOWER.	INSTALLED UNDER ELECTRICAL PORTION OF CONTRACT UNLESS OTHERWISE NOTED	C. EQUIPMENT
419 3 l	6. ALL WORK SHALL COMPLY WITH OSHA AND STATE SAFETY REQUIREMENTS. PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION, IF TEMPORARY LIGHTING AND MARKING IS	4. UNINTERRUPTED ELECTRICAL SERVICE FOR EXISTING EQUIPMENT SHALL BE MAINTAINED DURING THE INSTALLATION OF THE WORK DESCRIBED UNDER THESE DOCUMENTS. TEMPORARY EQUIPMENT, CABLES AND WHATEVER ELSE IS NECESSARY SHALL BE PROVIDED	I. EQUIPMENT/PARTS CONNECTED TO EXISTING PANELS, DL CHARACTERISTICS (A/C, V, A) OF THAT EQUIPMENT.
0U	REQUIRED BY THE FEDERAL AVIATION ADMINISTRATION (FAA), IT IS THE SUBCONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE NECESSARY LIGHTS AND NOTIFY THE PROPER AUTHORITIES IN	AS REQUIRED TO MAINTAIN ELECTRICAL SERVICE. TEMPORARY SERVICE FACILITIES, IF REQUIRED AT ANY TIME, SHALL NOT BE DISCONNECTED OR REMOVED UNTIL NEW SERVICE	2. ALL ELECTRICAL EQUIPMENT OUTSIDE SHALL BE NEMA O
rrero	THE EVENT OF A PROBLEM.	EQUIPMENT IS IN PROPER OPERATION. IF ANY SERVICE OR SYSTEM MUST BE INTERRUPTED, THE CONTRACTOR SHALL REQUEST PERMISSION IN WRITING STATING THE DATE, TIME, ETC.	D. GROUNDING
rgue	7. ALL WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL CODES OR ORDINANCES. THE MOST STRINGENT CODE WILL APPLY IN THE CASE OF DISCREPANCIES OR DIFFERENCES IN THE CODE REQUIREMENTS.	THE SERVICE WILL BE INTERRUPTED AND THE AREAS AFFECTED. THIS REQUEST SHALL BE MADE IN SUFFICIENT TIME FOR PROPER ARRANGEMENTS TO BE MADE. WRITTEN	I. ALL GROUND CONNECTIONS TO BUILDING SHALL BE MAD
by:		PERMISSION SHALL BE OBTAINED FROM THE OWNER BEFORE INTERRUPTING ELECTRICAL SERVICE.	PROVIDE STAINLESS STEEL BOLTS AND LOCK WASHERS CONNECTIONS.
inted	<ul> <li>8. ANY DAMAGE TO THE ADJACENT PROPERTIES WILL BE CORRECTED AT THE SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE LANDOWNER AND THE ENGINEER.</li> <li>9. THE COMPLETE BID PACKAGE INCLUDES THESE CONSTRUCTION DRAWINGS ALONG WITH THE SPECIFICATIONS. SUBCONTRACTOR IS RESPONSIBLE FOR REVIEW OF TOTAL BID PACKAGE PRIOR TO BID SUBMITTAL</li> </ul>	5. COORDINATE NEW WORK WITH OTHER TRADES AND VERIFY EXISTING CONDITIONS TO AVOID	2. ALL EQUIPMENT SURFACES TO BE BONDED TO GROUNDI
vg Pri		INTERFERENCE. IN CASE OF INTERFERENCE, AT&TS REPRESENTATIVE WILL DECIDE WHICH WORK IS TO BE RELOCATED, REGARDLESS OF WHICH WAS FIRST INSTALLED.	ALL PAINT AND DIRT. CONNECTIONS TO VARIOUS METAI CAUSE A GALVANIC OR CORROSIVE REACTION. AREA SI BONDING.
Ds.d/		6. THE INSTALLATION MUST COMPLY WITH NEC AND ALL FEDERAL, STATE AND LOCAL RULES	3. ANY METALLIC ITEM WITHIN 6' OF GROUND CONDUCTOR
TT C	<ul> <li>IO. SUBCONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES WITHIN CONSTRUCTION LIMITS PRIOR TO CONSTRUCTION.</li> <li>I I. THE SUBCONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE ON THE SITE AT ALL TIMES. SILT AND EROSION CONTROL SHALL BE MAINTAINED ON THE DOWNSTREAM SIDE OF THE SITE AT ALL TIMES. ANY DAMAGE TO ADJACENT PROPERTIES WILL BE CORRECTED AT THE SUBCONTRACTOR'S EXPENSE.</li> </ul>	AND REGULATIONS. 7. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF	GROUNDING SYSTEM.
ATOR A		SYSTEMS AND EQUIPMENT UNLESS OTHERWISE DEFINED BY DIMENSIONS OR DETAILS. EXACT EQUIPMENT LOCATIONS AND RACEWAY ROUTING SHALL BE GOVERNED BY ACTUAL	4. EXTERIOR, ABOVE GRADE GROUND CONNECTIONS SHALL PROTECTIVE COATING OF ANTI-OXIDE COMPOUND.
GENERA		FIELD CONDITIONS AND/OR DIRECTIONS FROM AT&T'S REPRESENTATIVE.	5. ALL MATERIALS AND LABOR REQUIRED FOR THE GROUND PLANS AND DETAILS, AND AS DESCRIBED HEREIN SHALL
AST_	<ul> <li>12. CLEARING OF TREES AND VEGETATION ON THE SITE SHOULD BE HELD TO A MINIMUM. ONLY THE TREES NECESSARY FOR CONSTRUCTION OF THE FACILITIES SHALL BE REMOVED. ANY DAMAGE TO THE PROPERTY OUTSIDE THE LEASED PROPERTY SHALL BE REPAIRED BY THE SUBCONTRACTOR.</li> <li>13. ALL SUITABLE BORROW MATERIAL FOR BACK FILL OF THE SITE SHALL BE INCLUDED IN THE BID. EXCESS TOPSOIL AND UNSUITABLE MATERIAL SHALL BE DISPOSED OF OFF SITE AT LOCATIONS APPROVED BY GOVERNING AGENCIES PRIOR TO DISPOSAL.</li> <li>14. SEEDING AND MULCHING OF THE SITE WILL BE ACCOMPLISHED AS SOON AS POSSIBLE AFTER COMPLETION OF THE SITE DEVELOPMENT. THE SUBCONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAIN AN ADEQUATE COVER OF VEGETATION OVER THE SITE FOR A ONE YEAR PERIOD.</li> </ul>	9. ALL MATERIALS SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE	
=ORT E/		<ul> <li>WITH THE APPLICABLE SECTIONS OF THE STANDARDS REFERENCED BELOW:</li> <li>a. ANSI (AMERICAN NATIONAL STANDARDS INSTITUTE)</li> <li>b. ASTIM (AMERICAN SOCIETY FOR TESTING MATERIALS)</li> </ul>	6. EXACT LOCATION OF GROUND CONNECTION POINTS SHA ADJUST LOCATIONS INDICATED ON PLANS ACCORDING T TO KEEP THE GROUND CONNECTION CABLES AS SHORT
RANF		<ul> <li>c. ETL (ELECTRICAL TESTING LABORATORY)</li> <li>d. ICEA (INSULATED CABLE ENGINEERS ASSOCIATION)</li> </ul>	7. PROVIDE ALL ELECTRICAL SYSTEM AND EQUIPMENT GROU
TH B		<ul> <li>e. IEEE (INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS)</li> <li>f. MBFU (NATIONAL BOARD OF FIRE UNDERWRITERS)</li> </ul>	CURRENT EDITION OF THE NATIONAL ELECTRIC CODE (19 THE NATIONAL ELECTRICAL SAFETY CODE. BONDING JUN
NOR		<ul> <li>g. NESC (NATIONAL ELECTRICAL SAFETY CODE)</li> <li>h. NEMA (NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION)</li> </ul>	FITTINGS SHALL BE INSTALLED AT ALL RACEWAYS, EQUIP ETC. TO MAINTAIN GROUND CONTINUITY WHERE REQUIRE
0211		<ol> <li>NFPA (NATIONAL FIRE PROTECTION ASSOCIATION)</li> <li>J. UL (UNDERWRITER'S LABORATORY)</li> </ol>	<ol> <li>ALL EQUIPMENT GROUND CONDUCTORS SHALL BE TIN CONOTED OTHERWISE ON THE DRAWINGS.</li> </ol>
1007	I 5. PERMITS: THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND INCURRING THE COST OF ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATES, ETC.	I.O. CONTRACTOR SHALL REVIEW PLANS, DETAILS AND SPECIFICATIONS IN DETAIL AND ADJUST WORK TO CONFORM WITH ACTUAL SITE CONDITIONS SO THAT ELECTRICAL DEVICES AND EQUIPMENT WILL BE LOCATED AND READILY ACCESSIBLE. QUANTITIES LISTED IN MATERIAL	<ol><li>PROVIDE PRE AND POST GROUND TEST RESULTS, USING SHALL BE PHOTOS WITH DIGITAL TIME AND GPS STAMPE</li></ol>
325C	IG. RECORD DRAWINGS: MAINTAIN A RECORD OF ALL CHANGES, SUBSTITUTIONS BETWEEN	LISTS ON THE DRAWINGS ARE FOR INFORMATION ONLY. THE CONTRACTOR SHALL PROVIDE HIS OWN TAKEOFF FOR MATERIAL QUANTITY AND TYPES BASED ON ACTUAL SITE	E. INSPECTION/DOCUMENTATION
6\48	WORK AS SPECIFIED AND INSTALLED. RECORD CHANGES ON A CLEAN SET OF CONTRACT DRAWINGS WHICH SHALL BE TURNED OVER TO THE CONSTRUCTION MANAGER UPON COMPLETION	CONDITIONS, IN ADDITION, CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIALS TO INSTALL EQUIPMENT FURNISHED BY AT\$T OR ITS SUPPLIERS. ALL ITEMS NOT SPECIFICALLY	I. THE CONTRACTOR, UPON COMPLETION OF HIS WORK, S
587	OF THE PROJECT.	MENTIONED HEREIN OR SHOWN ON THE DRAWINGS, BUT WHICH ARE OBVIOUSLY NECESSARY TO MAKE A COMPLETE WORKING INSTALLATION, SHALL BE INCLUDED.	INFORMATION SHOULD BE GIVEN TO THE GENERAL CONT AS-BUILT SURVEY DOCUMENTS TO BE GIVEN TO THE OW
Publish_	I 7. THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURES, ABOVE GROUND STRUCTURES AND/OR EXISTING UTILITIES BELIEVED TO BE IN THE WORKING AREA. IT IS THE RESPONSIBILITY OF THE SUBCONTRACTOR TO VERIFY ALL UTILITIES, PIPELINES AND OTHER STRUCTURES SHOWN OR	II. THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) AT≰T'S REPRESENTATIVE OF ANY CONFLICTS PRIOR TO THE SUBMISSION OF CONTRACTOR'S	<ol> <li>CONTRACTOR SHALL SUPPLY DOCUMENTATION ATTESTIN SYSTEM'S RECEPTIVITY (MAX. 5 OHMS).</li> </ol>
JP\Ac	NOT SHOWN ON THESE PLANS. THE SUBCONTRACTOR SHALL CONTACT THE LOCAL JURISDICTION'S DIGGER'S HOTLINE BEFORE DIGGING OR DRILLING. ANY DAMAGE TO EXISTING	PROPOSAL OR PERFORMANCE OF WORK, IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED IN	3. AN ELECTRICAL INSPECTION SHALL BE MADE BY AND INS
scal∖ten	UTILITIES SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER AND ENGINEER AT THE SUBCONTRACTOR'S EXPENSE.	WRITING OTHERWISE.	AT≰T'S REPRESENTATIVE. CONTRACTOR SHALL COORDIN POWER COMPANY APPROVAL.
data\lc	GENERAL NOTES:	AND THEN FIREPROOFED.	<ol> <li>CONTRACTOR SHALL HAVE ATS AND GENERATOR RELAY INSPECTED BY OTHERS TO ENSURE THAT UL LISTING FOR</li> </ol>
lappo	I . THIS PROPOSAL IS FOR THE ADDITION OF A NEW GENERATOR ON A CONCRETE PAD TO AN EXISTING UNMANNED TELECOMMUNICATIONS FACILITY CONSISTING OF AN EQUIPMENT SHELTER	B. WIRING/CONDUIT	
rrero	AND TOWER.	<ol> <li>PROVIDE PULL BOXES AND JUNCTION BOXES WHERE SHOWN OR AS REQUIRED BY CODE SUCH THAT NO MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (380 DEGREES)</li> </ol>	
Irgue	2. THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SERVICE.	TOTAL) EXIST IN A CONDUIT RUN.	
SLS	3. THE PROPOSED FACILITY IS UNMANNED AND IS NOT FOR HUMAN HABITAT. (NO HANDICAP	<ol> <li>ALL POWER AND CONTROL/INDICATION WIRING SHALL BE TYPE THHN/THWN 800V RATED 75 DEGREES CELSIUS, UNLESS NOTED OTHERWISE.</li> </ol>	



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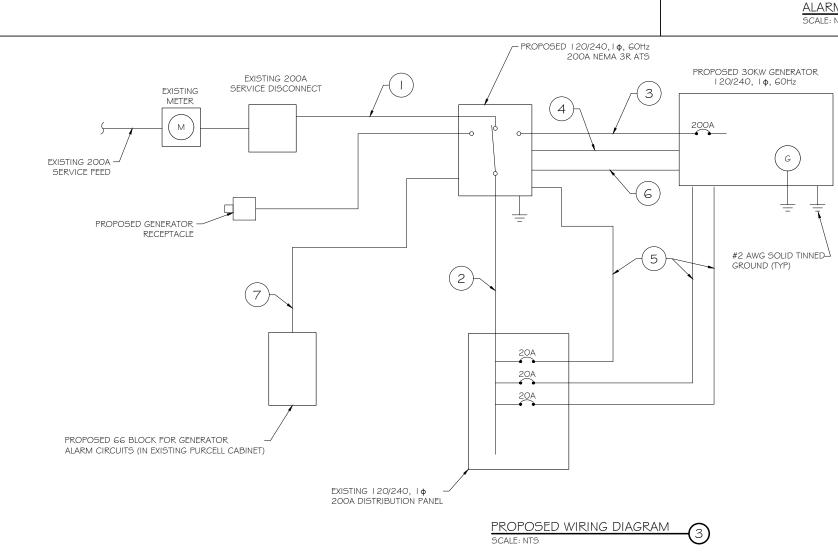
SHEET NUMBER





2020 불 Copy  $\odot$ 

RESTORE SURFACE TO MATCH ORIGINAL CONDITION	RAMAKER employee-owned (608) 643-4100 www.ramaker.com PREPARED FOR:
- UNDISTURBED SOIL	employee-owned
	(608) 643-4100 www.ramaker.com
COMPACTED BACKFILL (SUITABLE ON SITE MATERIAL)	PREPARED FOR:
G" WARNING TAPE	at&t
ELECTRICAL CONDUIT(5) WHERE APPLICABLE *	Mobility
	CONSULTANT:
D WITH	CONSULTANT: GENERAL DYNAMICS Information Technology, Inc.
	GENERAL DYNAMICS 661 MOORE RD STE 110
AS NOTED BELOW. UP LOCATIONS (I.E.	KING OF PRUSSIA, PA 19406
·	KING OF PRUSSIA, PA 19406 Certification 4 Seal: I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of <u>Connecticut</u> .
$\sim$	by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of <u>Connecticut</u> .
(2)	ROCENSEO
	26266 CENSED SONAL ENGINE
CI 318-11. IN CASE OF CONFLICT D/OR MANUFACTURER'S REQUIREMENTS,	Jane R Skowson 8/31/2020
R OR SUBCONTRACTOR OR HITECT, THE ENGINEER, TECH. 'ER & HOLD THEM HARMLESS AGAINST	Jana Returned B/31/2020 Date:
FUL OR NEGLIGENT ACT, OR FAILURE TO TE SCAFFOLDING ACT IN CONNECTIONS	
	MARK DATE DESCRIPTION
Y SHALL BE ASSUMED TO BE 2000 PSF.	MARK DATE DESCRIPTION ISSUE FINAL DATE 08/31/2020 PROJECT TITLE:
T STALL DE ASSUMED TO DE 2000 FSF.	NORTH BRANFORT EAST FA ID # 10071170
	PROJECT INFORMATION: 39 CIRO ROAD NORTH BRANFORD, CT 06471
EXPOSED TO EARTH OR WEATHER.	SHEET TITLE:
CALCIUM CHLORIDE.	FOUNDATION DETAILS
ED GRANULAR FILL WITH AN ASSUMED	SCALE: NONE
DN & SLAB SUBGRADE & BACKFILL AREAS, 1 DENSITY AT OPTIMUM MOISTURE	
FROST, OR ICE FROM PENETRATING ANY	PROJECT 48250
IL SUCH CONCRETE HAS FULLY CURED.	SHEET S-



ALARM WIRING IDENTIFICATION CHART

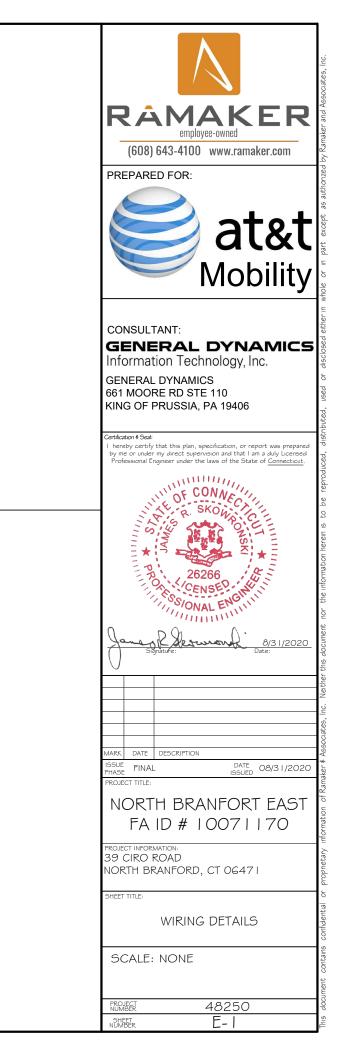
CIRCUIT DETAIL	$\bigcirc$
SCALE: NTS	-

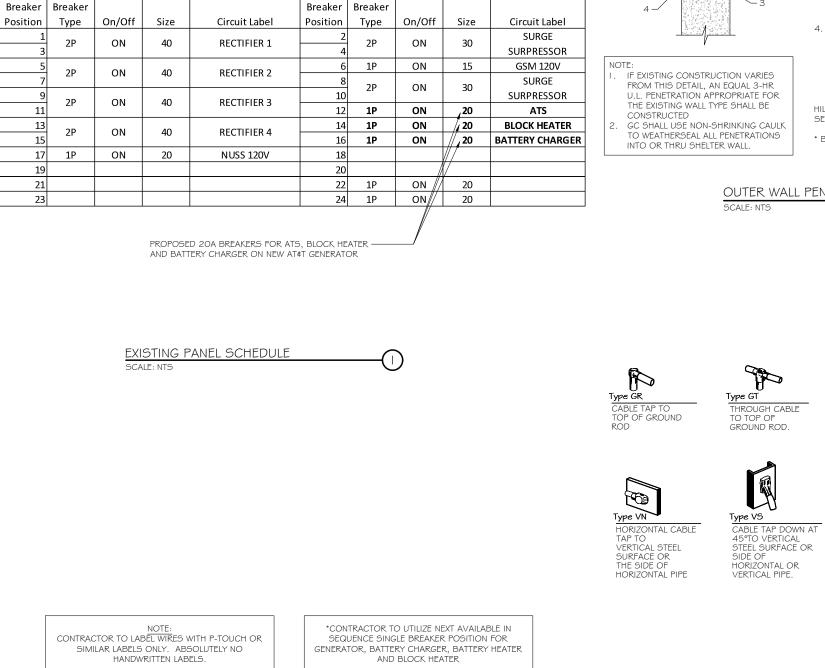
		I	DIAGRAM CIRC	CUIT SCHEDUL	E	
NO.	FROM	TO	WIRES	GROUND	CONDUIT SIZE	FUNCTION
	NORMAL POWER SOURCE	AUTOMATIC TRANSFER SWITCH	(3) 3/0	( ) #4	2"	NORMAL POWER FEEDER TO ATS (CUT BACK EXISTING)
2	AUTOMATIC TRANSFER SWITCH	LOAD CENTER	(3) 3/0	( ) #4	2"	POWER FEEDER FROM ATS TO PANEL
3	GENERATOR	AUTOMATIC TRANSFER SWITCH	(3) 3/0	( ) #4	2"	EMERGENCY POWER FEEDER TO ATS
4	AUTOMATIC TRANSFER SWITCH	GENERATOR	(2) #10	( ) # 0	l	START CIRCUIT
5	LOAD CENTER (DISTRIBUTION CENTER)	GENERATOR, ATS	(2) # 2 (2) # 2 (2) # 2	( ) # 2 ( ) # 2 ( ) # 2	n   n	CIRCUIT FOR GENERATOR BLOCK HEATER \$ BATTERY HEATER CIRCUIT FOR BATTERY CHARGER CIRCUIT FOR ATS
6	GENERATOR	AUTOMATIC TRANSFER SWITCH	I 2-PAIR 24 AWG OR 2EA G-PAIR CAT5	N/A	1 11	ALARM CABLES (1) I 2 PAIR 24 AWG. PROVIDE 24" OF SLACK CABLE. FINAL PUNCH DOWN IS BY AT&T TECH. LABEL ALL WIRES
7	AUTOMATIC TRANSFER SWITCH	ALARM BLOCK	I 2-PAIR 24 AWG OR 2EA G-PAIR CAT5	N/A	1 "	ALARM CABLES (1) I 2 PAIR 24 AWG (RUN TO PURCELL CABINET & INTO ALARM BOX). PROVIDE 24" OF SLACK CABLE. FINAL PUNCH DOWN IS BY AT&T TECH. LABEL ALL WIRES

APRICAL MILE IDENTIFICATION CHART				
WIRE	ALARM			
BROWN BROWN / WHITE	GENERATOR RUNNING			
GREEN GREEN / WHITE	CRITICAL FAULT			
BLUE BLUE / WHITE	MINOR FAULT			
ORANGE ORANGE / WHITE	LOW FUEL			
BROWN * BROWN / WHITE *	FUEL LEAK			
*CAT5 CABLE ONLY, FROM 2ND CAT5 CABLE				

ALARM WIRE IDENTIFICATION CHART

s Rese MJR All Rights ECKED BY: hc. -CHE © Copyright 2020 - Ramaker \$ Associates, DRAWN BY: TRB





AC Distribution Panel - Layout Diagram

2. 3.

#### U.L. SYSTEM NO. C-AJ-I I 50 CONDUIT THROUGH BEARING WALL SIMILAR TO U.L. DESIGN NO. U902 F RATING = 3 HR T RATING = O HR

- FLOOR OR WALL ASSEMBLY : MINIMUM 4-1/2" THICK REINFORCED LIGHTWEIGHT OR 1. NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS\*. MAX DIAMETER OF OPENING IS 4". SEE CONCRETE BLOCKS 9CATZ) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
- THROUGH PENETRATIONS : ONE METALLIC PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE ANNULAR SPACE SHALL BE MINIMUM O". (POINT CONTACT) TO MAXIMUM 1-3/8". THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR CONDUITS MAY BE USED:
- A. STEEL PIPE-NOMINAL G" DIAMETER (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL PIPE. B. IRON PIPE-NOMINAL 6" DIAMETER (OR SMALLER) CAST OR DUCTILE IRON PIPE.
- C. CONDUIT NOMINAL 4" DIAMETER (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR NOMINAL 3-1/2" DIAMETER (OR SMALLER) STEEL CONDUIT
- PACKING MATERIAL: MINIMUM 6" THICKNESS OF MIN 4.0 PCF MINERAL WOOL BATTING INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
- FILL, VOID, OR CAVITY MATERIAL\*: SEALANT: MINIMUM 1/4" THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR AND WITH BOTH SURFACES OF WALL. AT THE POINT CONTACT LOCATION BETWEEN PIPE AND CONCRETE, A MINIMUM 1/2" DIAMETER BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE CONCRETE/PIPE INTERFACE ON THE TOP SURFACE OF FLOOR AND ON BOTH SURFACES OF WALL. W RATING APPLIES ONLY WHEN CP6015 OR CP604 SEALANT IS USED

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. : CPG015, CPG04, CPG06, OR FS-ONE SEALANT

\* BEARING THE UL CLASSIFICATION MARK

# OUTER WALL PENETRATION DETAIL (IF APPLICABLE)

Type GY

TO SIDE OF

Type VV

SCALE: NTS

CABLE TO

THROUGH VERTICAL

VERTICAL STEEL SURFACE OR TO THE

SIDE OF EITHER HORIZONTAL OR

VERTICAL PIPE

GROUND ROD

THROUGH CABLE

Type HS HORIZONTAL CABLE TAP TO HORIZONTAL STEEL SURFACE OR PIPE CABLE OFF SURFACE

vpe GR

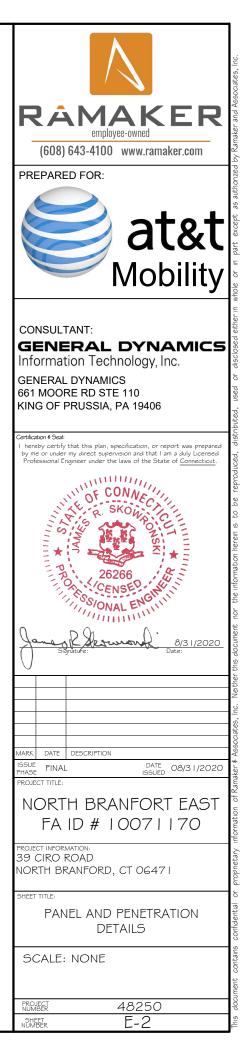
CABLE TAP TO TOP OF GROUND ROD

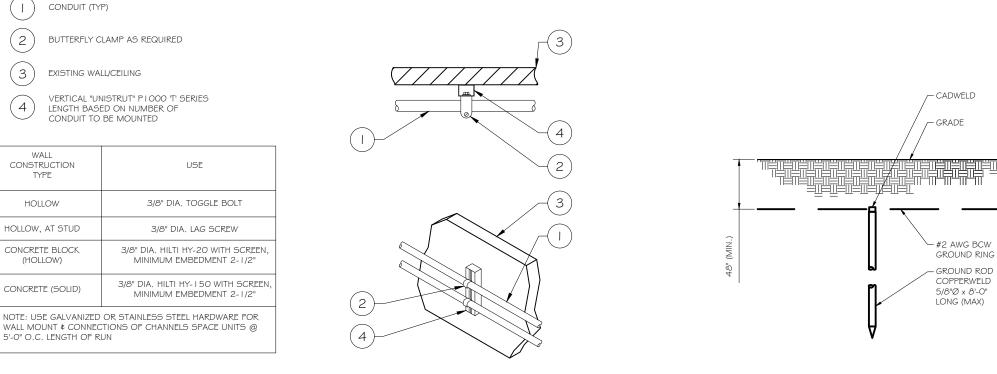
CADWELD DETAILS





ORIZONTAL RUN AND TAP CABLES





GROUND ROD DETAIL SCALE: NTS



	MOUNTING HOLES (TYP OF 4)
4-4 1/2"	NEW GENARAC TAS-200 AUTOMATIC TRANSFER SWITCH MOUNTED TO NEW UNISTRUT
	I -5/8" P I OOOT UNISTRUT MOUNTED TO WALL (TYP OF 2)
	NEW MECHANICAL CONNECTION WITH #2 AWG TO EXISTING GROUND RING

(3)

GENERAC ATS MOUNTING DETAIL

SCALE: NTS

WALL CONSTRUCTION TYPE	USE
HOLLOW	3/8" DIA. TOGGLE BOLT
HOLLOW, AT STUD	3/8" DIA. LAG SCREW
CONCRETE BLOCK (HOLLOW)	7/16" DIA. HILTI HY-20 WITH SCREEN MINIMUM EMBEDMENT 2-1/2"
CONCRETE (SOLID)	7/16" DIA. HILTI HY-150 WITH SCREEN MINIMUM EMBEDMENT 2-1/2"

#### NOTE:

- L `

(2)

(3)

(4)

- USE GALVANIZED OR STAINLESS STEEL HARDWARE FOR WALL
- MOUNT AND CONNECTION OF CHANNELS
- 2. GC SHALL USE NON-SHRINKING CAULK TO WEATHER SEAL ALL PENETRATIONS INTO OR THROUGH SHELTER WALL



GROUND RODS MAY BE: RÂMAKER - COPPER CLAD STEEL SOLID COPPER (608) 643-4100 www.ramaker.com PREPARED FOR: SHALL BE REQUIRED IN AREAS HIGHLY PRONE TO LIGHTNING AND/OR AREAS at& Mobility CONSULTANT: GENERAL DYNAMICS Information Technology, Inc. GENERAL DYNAMICS 661 MOORE RD STE 110 KING OF PRUSSIA, PA 19406 ertification & Seal: hereby certify that this plan, specification, or report was prepare by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of <u>Connecticut</u>. NUT CONAL OF CONNEC SIONAL E 8/31/2020 IARK DATE DESCRIPTION HASE FINAL DATE 08/31/2020 ROJECT TITLE: NORTH BRANFORT EAST FA ID # 10071170 39 CIRO ROAD NORTH BRANFORD, CT 06471 SHEET TITLE: ATS, CONDUIT & GROUND ROD DETAILS SCALE: NONE PROJECT NUMBER 48250

SHEET NUMBER

E-3

GROUND RODS SHALL HAVE A MAXIMUM SPACING TWICE THE LENGTH OF ROD 2. 3. SEE RESISTIVITY REPORT FOR VERIFICATION AS AVAILABLE A LARGER CONDUCTOR 4

NOTE:

(2)

WITH HIGHLY ACIDIC SOIL GROUND RODS INSTALLED WITHIN CLOSE PROXIMITY TO TOWER OR WHEN SOIL IS AT OR BELOW 2,000 OHM-CM, SHALL BE GALVANIZED TO PREVENT GALVANIC CORROSION OF TOWER,

(SEE ANSI/TIA-EIA-222-G) 6 PROVIDE (1) GROUND LEAD TO EACH SIDE OF THE GENERATOR



EPA Certified Stationary Emergency

**Standby Power Rating** 30 kW, 38 kVA, 60 Hz

Prime Power Rating\* 27 kW, 34 kVA, 60 Hz

**Codes and Standards** 

\*EPA Certified Prime ratings are not available in the US or its Territories

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



# GENERAC<sup>®</sup> INDUSTRIAL



**Powering Ahead** 

design and superior manufacturing.

systems and communications software.

applications under adverse conditions.

For over 50 years, Generac has provided innovative

Generac ensures superior quality by designing and

manufacturing most of its generator components,

including alternators, enclosures and base tanks, control

Generac gensets utilize a wide variety of options,

configurations and arrangements, allowing us to meet the

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

Generac is committed to ensuring our customers' service

support continues after their generator purchase.

standby power needs of practically every application.

Image used for illustration purposes only

# Critical Silencer (Enclosed Unit Only)

- Fuel System
- Primary Fuel Filter

#### **Cooling System**

- Closed Coolant Recovery System
- UV/Ozone Resistant Hoses
- Radiator Drain Extension

- Battery Tray
- Rubber-Booted Engine Electrical Connections



#### **Digital H Control Panel- Dual 4x20 Display**

#### **Program Functions**

- Programmable Crank Limiter
- 7-Day Programmable Exerciser
- Special Applications Programmable Logic Controller
- RS-232/485 Communications

- Date/Time Fault History (Event Log)
- Isochronous Governor Control
- Waterproof/Sealed Connectors

#### · Rotor Dynamically Spin Balanced Amortisseur Winding (3-Phase Only)

 Full Load Capacity Alternator Protective Thermal Switch

## **GENERATOR SET**

ALTERNATOR SYSTEM

Class H Insulation Material

UL2200 GENprotect<sup>™</sup>

Brushless Excitation

2/3 Pitch

Skewed Stator

Sealed Bearing

- Internal Genset Vibration Isolation
- Separation of Circuits High/Low Voltage
- Separation of Circuits Multiple Breakers
- Wrapped Exhaust Piping
- Standard Factory Testing
- 2 Year Limited Warranty (Standby Rated Units)
- 1 Year Limited Warranty (Prime Rated Units)
- Silencer Mounted in the Discharge Hood (Enclosed Unit Only)
- · 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<sup>®</sup> Protocol
  - Predictive Maintenance Algorithm Sealed Boards
  - Password Parameter Adjustment Protection
  - Single Point Ground
  - 16 Channel Remote Trending
  - 0.2 msec High Speed Remote Trending
  - Alarm Information Automatically Annunciated
  - Power Factor
  - Real/Reactive/Apparent Power
  - All Phase AC Voltage
  - All Phase Currents

GENERAC 30KW GENERATOR SPECIFICATIONS SCALE: NTS



SD030 | 2.2L | 30 kW

EPA Certified Stationary Emergency

• Stainless Steel Flexible Exhaust Connectio

• Radiator Duct Adapter (Open Set Only)

**STANDARD FEATURES** 

Factory Filled Oil and Coolant

ENGINE SYSTEM

Oil Drain Extension

Air Cleaner

Fan Guard

INDUSTRIAL DIESEL GENERATOR SET

- Factory-Installed Radiator
- 50/50 Ethylene Glycol Antifreeze

#### **Electrical System**

- Battery Charging Alternator Battery Cables

- Solenoid Activated Starter Motor

### **CONTROL SYSTEM**



- All Phase Sensing Digital Voltage Regulator
- · 2-Wire Start Capability

on the Display

#### **Full System Status Display**

- Power Output (kW)
- kW Hours, Total, and Last Run



**GENERAC**<sup>®</sup> INDUSTRIAL

#### ENCLOSURE (If Selected)

- Rust-Proof Fasteners with Nylon Washers to Protect Finish
- High Performance Sound-Absorbing Material (Sound Attenuation Enclosures)
- Gasketed Doors
- · Stamped Air-Intake Louvers
- Upward Facing Discharge Hoods
- (Radiator and Exhaust
- Stainless Steel Lift Off Door Hinges
- Stainless Steel Lockable Handles
- RhinoCoat<sup>™</sup> Textured Polyester Powder Coat Paint

#### FUEL TANKS (If Selected)

- UL 142/ULC S601 Double Wall Normal and Emergency Vents Sloped Top Sloped Bottom
- Factory Pressure Tested Rupture Basin Alarm
- Fuel Level
- Check Valve In Supply and Return Lines
- RhinoCoat<sup>™</sup> Textured Polvester Powder Coat Paint Stainless Steel Hardware
- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Speed
- Battery Voltage
- Frequency

#### Alarms and Warnings

- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Overspeed
- Battery Voltage
- Alarms and Warnings Time and Date Stamped
- Snap Shots of Key Operation Parameters During
- Alarms and Warnings
- Alarms and Warnings Spelled Out (No Alarm Codes)



#### SD030 | 2.2L | 30 kW **INDUSTRIAL DIESEL GENERATOR SET**

EPA Certified Stationary Emergency

#### **CONFIGURABLE OPTIONS**

#### ENGINE SYSTEM

- Oil Heater
- Critical Silencer (Open Set Only)
- Radiator Stone Guard
- Level 1 Fan and Belt Guards (Open Set Only)

#### FUEL SYSTEM

NPT Flexible Fuel Line

#### ELECTRICAL SYSTEM

• 10A UL Listed Battery Charger Battery Warmer

#### ALTERNATOR SYSTEM

- Alternator Upsizing
- Anti-Condensation Heater
- Tropical Coating
- Permanent Magnet Excitation

#### GENERATOR SET

- Extended Factory Testing
- 8 Position Load Center
- Pad Vibration Isolation

#### **ENGINEERED OPTIONS**

#### ENGINE SYSTEM

 Coolant Heater Isolation Ball Valves Fluid Containment Pan

#### CONTROL SYSTEM

• Spare Inputs (x4) / Outputs (x4) Battery Disconnect Switch

#### CONTROL SYSTEM

NFPA 110 Compliant 21-Light Remote Annunciator

- Remote Relay Assembly (8 or 16) Oil Temperature Indication and Alarm
- Remote E-Stop (Break Glass-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type,
- Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Flush Mount)
- O 100 dB Alarm Horn
- Ground Fault Annunciation 120V GFCI and 240V Outlets
- Remote Communication Modem
- 10A Engine Run Relay

#### FUEL TANKS (Size On Last Page)

- O 8 in (203.2 mm) Fill Extension
- 13 in (330.2 mm) Fill Extension
- 19 in (482.6 mm) Fill Extension Overfill Protection Valve
- 5 Gallon Spill Box Return Hose 5 Gallon Spill Box
- Tank Risers
- Fuel Level Switch and Alarm
- 12' Vent System
  - Fire Rated Stainless Steel Fuel Hose

- UL2085 Tank
- Stainless Steel Tanks
- Special Fuel Tanks
- Vent Extensions

## SD030 | 2.2L | 30 kW

INDUSTRIAL DIESEL GENERATOR SET EPA Certified Stationary Emergency

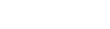
#### **APPLICATION AND ENGINEERING DATA**

#### ENGINE SPECIFICATIONS

General		Cooling System	
Make	Perkins	Cooling System Type	(
EPA Emissions Compliance	Stationary Emergency	Water Pump Type	
EPA Emissions Reference	See Emission Data Sheet	Fan Type	
Cylinder #	4	Fan Speed - RPM	
Туре	In-Line	Fan Diameter - in (mm)	
Displacement - in <sup>3</sup> (L)	135 (2.22)		
Bore - in (mm)	3.3 (84)	Fuel System	
Stroke - in (mm)	3.9 (100)	Fuel Type	1
Compression Ratio	23.3:1	Fuel Specifications	
Intake Air Method	Turbocharged	Fuel Filtering (Microns)	
Cylinder Head	Cast Iron	Fuel Inject Pump	
Piston Type	Aluminum	Fuel Pump Type	
Crankshaft Type	Forged Steel	Injector Type	
		Fuel Supply Line - in (mm)	(
Engine Governing		Fuel Return Line - in (mm)	(
Governor	Electronic Isochronous		
Frequency Regulation (Steady State)	±0.5%	Engine Electrical System	
		System Voltage	
Lubrication System		Battery Charger Alternator	
Oil Pump Type	Gear	Battery Size	
Oil Filter Type	Full-Flow	Battery Voltage	
Crankcase Capacity - qt (L)	11.2 (10.6)	Ground Polarity	I

#### ALTERNATOR SPECIFICATIONS

Standard Model	K0035124Y21	Standard Excitation	Bru
Poles	4	Bearings	Sin
Field Type	Revolving	Coupling	Dire
Insulation Class - Rotor	Н	Load Capacity – Standby	100
Insulation Class - Stator	Н	Prototype Short Circuit Test	Yes
Total Harmonic Distortion	<5% (3-Phase)	Voltage Regulator Type	Digi
Telephone Interference Factor (TIF)	< 50	Number of Sensed Phases	All
		Regulation Accuracy (Steady State)	±0





## Damper Alarm Contacts WARRANTY (Standby Gensets Only)

- 2 Year Extended Limited Warranty
- O 5 Year Extended Limited Warranty
- O 7 Year Extended Limited Warranty
- 10 Year Extended Limited Warranty
- FUEL TANKS

Res M.IR A 2020 -Copyright  $\odot$ 



Closed Recovery
Pre-Lubed, Self Sealing
Pusher
1,980
18 (457)

Jltra Low Sulfur Diesel Fuel #2
ASTM
i
Distribution Injection Pump
ngine Driven Gear
Aechanical
).31 (7.9) ID
).2 (4.8) ID

2 VDC
Standard
See Battery Index 0161970SBY
2 VDC
legative

Brushless
Single Sealed
Direct via Flexible Disc
100%
Yes
Digital
All
±0.25%





#### SD030 | 2.2L | 30 kW INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

#### **OPERATING DATA**

#### POWER RATINGS

	Standby	
Single-Phase 120/240 VAC @1.0pf	30 kW	Amps: 125
Three-Phase 120/208 VAC @0.8pf	30 kW	Amps: 104
Three-Phase 120/240 VAC @0.8pf	30 kW	Amps: 90
Three-Phase 277/480 VAC @0.8pf	30 kW	Amps: 45
Three-Phase 346/600 VAC @0.8pf	30 kW	Amps: 36

#### MOTOR STARTING CAPABILITIES (skVA)

skVA vs. Voltage Dip							
277/480 VAC 30% 208/240 VAC 30%							
K0035124Y21	61	K0035124Y21	46				
K0040124Y21	76	K0040124Y21	58				
K0050124Y21	98	K0050124Y21	75				

#### FUEL CONSUMPTION RATES\*

COOLING

	Fuel Pump Lift- ft (m)
	3 (1)
Total Fuel F	Pump Flow (Combustion + Return) - gph (Lph
	16.6 (63)

#### Percent Load Standby 1.0 (3.7) 25% 50% 1.4 (5.2) 75% 2.0 (7.5) 100% 2.8 (10.5) \* Fuel supply installation must accommodate fuel consumption rates at 100% load.

Diesel - gph (Lph)

GENERAC INDUSTRIAL

		Standby	
Coolant Flow	gpm (Lpm)	14.9 (56.2)	
Coolant System Capacity	gal (L)	2.5 (9.5)	
Heat Rejection to Coolant	BTU/hr (kW)	128,638 (136)	
Inlet Air	scfm (m <sup>3</sup> /hr)	2,800 (4,757)	
Maximum Operating Ambient Temperature	°F (°C)	122 (50)	
Maximum Operating Ambient Temperature (Before Derate)	See Bulletin	letin No. 0199280SSD	
Maximum Radiator Backpressure	in H <sub>2</sub> O (kPa)	0.5 (0.12)	

#### COMBUSTION AIR REQUIREMENTS

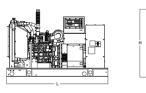
				Standby		
		Flow at Rated Pow	er scfm (m³/min)	88 (2.5)		
ENGINE		1	EXHAUST			
		Standby				Standby
Rated Engine Speed	RPM	1,800	Exhaust Flow (R	ated Output)	scfm (m <sup>3</sup> /min)	296.6 (8.4)
Horsepower at Rated kW**	hp	49	Max. Allowable	Backpressure (Post Turbocharger)	inHg (kPa)	1.5 (5.1)
Piston Speed	ft/min (m/min)	1,181 (360)	Exhaust Temp (I	Rated Output)	°F (°C)	892 (478)
BMEP	psi (kPa)	159 (1,096)				
** Refer to "Emissions Data Sheet"	for maximum bHP for	EPA and SCAQMD permitti	ng purposes.			

Deration - Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions. Please contact 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 Prime - See Bulletin 0187510SSB

# SD030 | 2.2L | 30 kW

INDUSTRIAL DIESEL GENERATOR SET EPA Certified Stationary Emergency

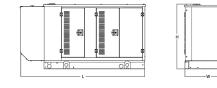
#### **DIMENSIONS AND WEIGHTS\***



OPEN S	ET (Includ	es Exhaust Flex)
Run Time - Hours	Usable Capacity - Gal (L)	LxWx
 No Tank	-	76.0 (1,930) x 37.4
19	54 (204)	76.0 (1,930) x 37.4

47

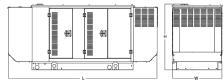
75



# WEATHER PROTECTED ENCLOSURE

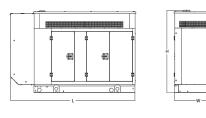
132 (501)

Run Time	Usable Capacity	L x W x H - in (mm)		Weight - Ibs (kg) Enclosure Only		
- Hours	- Gal (L)		Steel	Aluminum		
No Tank	-	94.8 (2,409) x 38.0 (965) x 49.5 (1,258)				
19	54 (204)	94.8 (2,409) x 38.0 (965) x 62.5 (1,588)				
47	132 (501)	94.8 (2,409) x 38.0 (965) x 74.5 (1,893)	- 372 - (170)	241 (110)		
75	211 (799)	94.8 (2,409) x 38.0 (965) x 86.5 (2,198)	- (170)	(110)		
107	300 (1,136)	94.8 (2,409) x 38.0 (965) x 86.5 (2,198)	-			



#### LEVEL 1 ACOUSTIC ENCLOSURE

Run Time - Hours	Usable Capacity	L x W x H - in (mm)		t - Ibs (kg) sure Only
- Hours	- Gal (L)		Steel	Aluminum
No Tank	-	112.5 (2,857) x 38.0 (965) x 49.5 (1,258)		
19	54 (204)	112.5 (2,857) x 38.0 (965) x 62.5 (1,582)		
47	132 (501)	112.5 (2,857) x 38.0 (965) x 74.5 (1,893)	505 - (230)	338 (154)
75	211 (799)	112.5 (2,857) x 38.0 (965) x 86.5 (2,198)	. (200)	(134)
107	300 (1,136)	112.5 (2,857) x 38.0 (965) x 86.5 (2,198)		



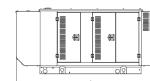
Run Time Usable Capacity		L x W x H - in (mm)	Weight - Ibs (kg) Enclosure Only	
- Hours - Gal (L)		Steel	Aluminum	
No Tank	-	94.8 (2,407) x 38.0 (965) x 61.1 (1,551)		
19	54 (204)	94.8 (2,407) x 38.0 (965) x 74.1 (1,881)	540	0.44
47	132 (501)	94.8 (2,407) x 38.0 (965) x 86.1 (2,186)	510 (232)	341 (155)
75	211 (799)	94.8 (2,407) x 38.0 (965) x 98.1 (2,491)	(202)	(100)
107	300 (1,136)	94.8 (2,407) x 38.0 (965) x 98.1 (2,491)		

\* All measurements are approximate and for estimation purposes only. Specification characteristics may change without notice. Please contact a Generac Power Systems Industrial Dealer for detailed installation drawings

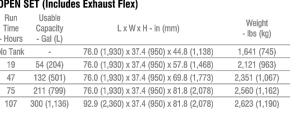
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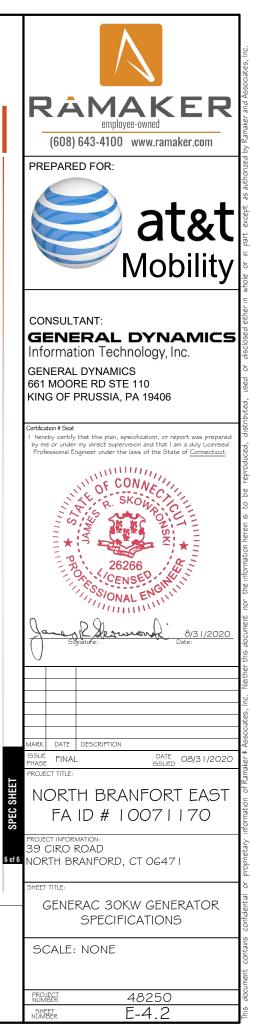








Part No. 10000024842 Rev. B 08/27/18





- OPERATIONAL STATUS VIEW VIA **6 INCH TOUCH SCREEN**
- TEST FUNCTION FAST TEST & NORMAL TEST
- UL1008 LISTED FOR EMERGENCY SYSTEMS

## **Optional Features**

- EXTENDED WARRANTY
- THREE-PHASE VOLTAGE CONFIGURATIONS



CSA C22.2 No. 178



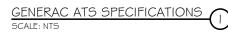
NEC 700, 701 and 702

NEMA 250

Dimensions	24"W x 12"D x 48"H
Weight	210 lbs.
	Single Chamber with Main Door
	Steel
	UL Type / NEMA 3R Rated
Construction	Powder Coat Finish for Corrosion Resistance
	C-UL-US Listed – Automatic Transfer Switch
	Stainless Steel Hardware
	3-Point Latching System with Pad-Lockable Handles
Mounting Options	Wall
	H-frame
Installed Pre-wired alarm terminal strip	

Electrical Specifications	
Voltage/Phase/Amps	120/240 Single-Phase, 200A 120/208 3-Phase, 200A 120/240 3-Phase, 200A
Breaker	Eaton 200 amp Utility Breaker
Diedkei	Eaton 200 amp Generator Breaker
Maximum RMS Symmetrical Fault Current - Amps	25k AIC Rated
Protective Device Continuous Rating (Max) Amp	200
Input to Generator	350MCM - #6 AWG
Output to Site	350MCM - #6 AWG
Generator Annunciator Connector	Deutsch DTM04-12PA-L012
	Generator Run Alarm
	Generator Fail – Shutdown Alarm
Alarm Terminal Board	Generator Fail – Non Shutdown Alar
Alann lenninai boaru	Low Fuel Alarm
	Generator Theft Alarm
	AC Utility Fail Alarm

Camlock Component					
Camlock Component	Shipped loose for multiple installation options				
Dimensions	9" W x 9.4" D x 24.25" H				
	Single-Phase: Black L1, Red L2, White-Neutral, Green-Grou				
2004 Comlast Connector Connection	3-Phase: Black L1, Red L2, Blue L3, White-Neutral, Green-Gro				
200A Camlock Generator Connection	Uses 4 CH E1016 Male Connectors				
	Mating Connector – CH E1016 Female				

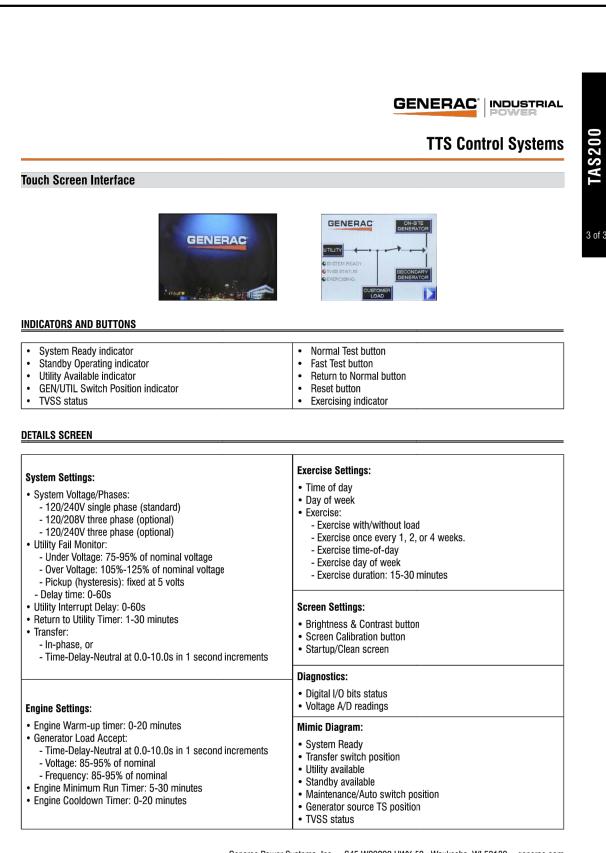


# **Application and Engineering Data**

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Res M.IR

All Rig

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: 2020 -

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GENERAC ATS SPECIFICATIONS SCALE: NTS



# 39 CIRO RD

Location	39 CIRO RD	Mblu	27/C 39F/2 / /
Acct#	006000	Owner	SBA PROPERTIES, LLC
Assessment	\$241,900	Appraisal	\$345,600
PID	102660	Building Count	1

#### **Current Value**

Appraisal					
Valuation Year Improvements Land					
2015	\$120,600	\$225,000	\$345,600		
Assessment					
Valuation Year	Improvements	Land	Total		
2015	\$84,400	\$157,500	\$241,900		

#### **Owner of Record**

Owner	SBA PROPERTIES, LLC	Sale Price	\$165,000
Co-Owner	ATT. TAX DEPARTMENT - CT04066	Certificate	
Address	8051 CONGRESS AVE	Book & Page	0326/0604
	BOCA RATON, FL 33487	Sale Date	12/23/2002
		Instrument	01

## **Ownership History**

Ownership History					
Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date
SBA PROPERTIES, LLC	\$165,000		0326/0604	01	12/23/2002

## **Building Information**

## Building 1 : Section 1

	Building Attributes	
Less Depreciation:	\$0	
Replacement Cost		
Building Percent Good:		
Replacement Cost:	\$0	
Living Area:	0	
Year Built:		

Field	Description
Style	Outbuildings
Model	
Grade:	
Stories:	
Occupancy	
Exterior Wall 1	
Exterior Wall 2	
Roof Structure:	
Roof Cover	
Interior Wall 1	
Interior Wall 2	
Interior FIr 1	
Interior FIr 2	
Heat Fuel	
Heat Type:	
АС Туре:	
Total Bedrooms:	
Total Bthrms:	
Total Half Baths:	
Total Xtra Fixtrs:	
Total Rooms:	
Bath Style:	
Kitchen Style:	
Num Kitchens	
Cndtn	
Usrfid 103	
Usrfld 104	
Usrfid 105	
Usrfid 106	
Usrfid 107	
Num Park	
Fireplaces	
Usrfld 108	
Usrfld 101	
Usrfld 102	
Usrfld 100	
Usrfld 300	
Usrfld 301	
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## **Building Photo**



(http://images.vgsi.com/photos/NorthBranfordCTPhotos//\00\00\72\02.jpg)

## **Building Layout**

Building Layout

(http://images.vgsi.com/photos/NorthBranfordCTPhotos//Sketches/102660

#### Building Sub-Areas (sq ft) Legend

No Data for Building Sub-Areas

Extra Features

Legend

No Data for Extra Features

#### Land

Land Use		Land Line Valuation	
Use Code	1060	Size (Acres)	0.00
Description	AC LND IMP	Frontage	0
Zone	12	Depth	0
Neighborhood		Assessed Value	\$157,500
Alt Land Appr	No	Appraised Value	\$225,000
Category			

#### Outbuildings

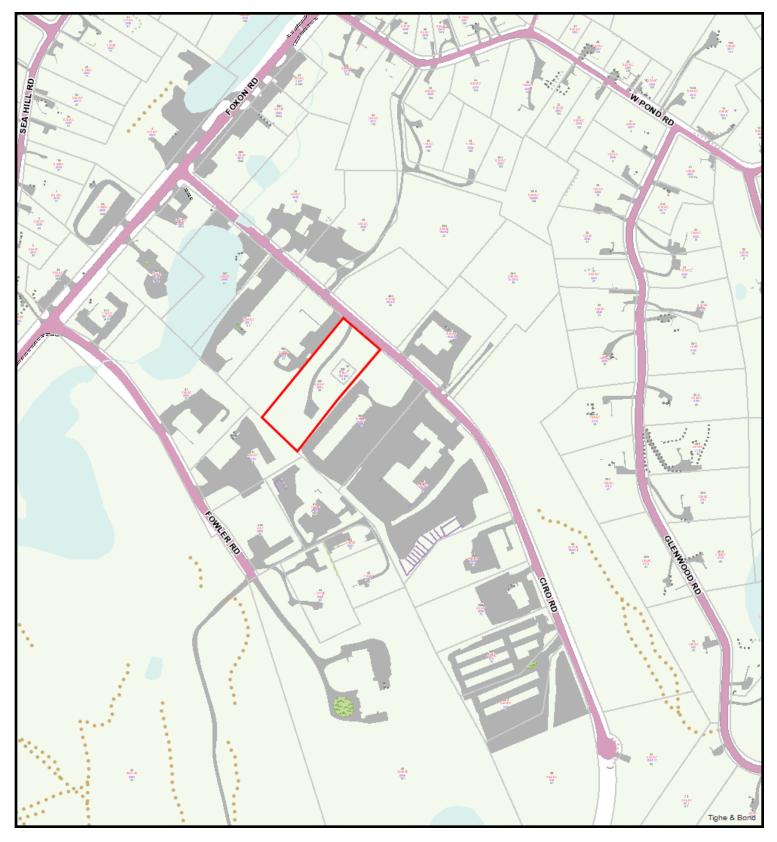
Outbuildings					<u>Legend</u>	
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
ELCB	ELECTRONIC COMM BLDG			240.00 S.F.	\$48,600	1
TW1	CELL TOWER			80.00 HEIGHT	\$72,000	1

## Valuation History

Appraisal					
Valuation Year	Improvements	Land	Total		
2019	\$120,600	\$225,000	\$345,600		
2018	\$120,600	\$225,000	\$345,600		
2017	\$120,600	\$225,000	\$345,600		

Assessment					
Valuation Year	Improvements	Land	Total		
2019	\$84,400	\$157,500	\$241,900		
2018	\$84,400	\$157,500	\$241,900		
2017	\$84,400	\$157,500	\$241,900		

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11/19/2020 10:07:37 PM

Scale: 1"=400' Scale is approximate

The information depicted on this map is for planning purposes only. It is not adequate for legal boundary definition, regulatory interpretation, or parcel-level analyses.





# ATTACHMENT 2

Petition No. 564 SBA Properties Inc. (SBA) North Branford, Connecticut Staff Report June 25, 2002

SBA seeks a declaratory ruling from the Council that no Certificate of Environmental Compatibility and Public Need (Certificate) is required for an existing telecommunications facility located at 39 Ciro Road in North Branford Connecticut. This is a speculation tower owned by SBA. SBA also requests that the Council approve the proposed shared use of the existing telecommunications facility by AT&T Wireless PCS, LLC (AT&T).

In a letter to municipalities dated January 25, 2002, the Council requested tower owners to notify the Council of towers approved by municipalities between July 10, 2001 and December 17, 2001, by filing a petition for a declaratory ruling as to whether such towers have a substantial adverse environmental effect. This telecommunications facility was approved by the Town of North Branford Zoning Board of Appeals on June 18, 2001. Council Staff visited this site on June 11, 2002, and took the accompanying photograph on that date.

The existing telecommunications facility consists of a 170-foot monopole, with four antenna platforms, within a 75-foot by 80-foot fenced compound. The existing telecommunications facility currently supports Sprint's antennas at the 137 feet above ground level (AGL), and a ten-foot by 20-foot equipment building within the fenced compound. AT&T proposes to attach six panel antennas at 147 feet AGL to the tower, and place four equipment cabinets on an approximately six-foot by ten-foot concrete pad within the fenced compound. The existing telecommunications facility is located in an Industrial I-2 zone. The calculated cumulative worst-case radiofrequency (RF) power density level for all telecommunications operations at the site would be approximately 12.4% of the applicable American National Standards Institute (ANSI) standard for RF exposure in uncontrolled environments. The existing monopole is structurally capable of supporting the existing and proposed antennas.

SBA contends that the proposed shared use of the existing telecommunications facility would not increase noise levels by six decibels or more; would not alter the access or storm drainage at the site; would not increase the height of the tower; would not require any clearing, grading, or expansion of the site boundaries; and therefore would not cause a substantial adverse environmental effect.

# ATTACHMENT 3

### **CERTIFICATION**

I hereby certify that on the <u>23rd</u> day of <u>November</u>, 2020, a copy of AT&T's Exempt Modification Request to the Connecticut Siting Council was sent by electronic mail to the chief elected official and the planning and zoning department of the municipality in which the facility is located as well as by first class mail to the property owner and tower/facility owner.

Dated: November 23, 2020

Cuddy & Feder LLP 445 Hamilton Avenue, Floor 14 White Plains, NY 10601 Attorneys for: New Cingular Wireless PCS, LLC (AT&T)