

445 Hamilton Avenue, 14th Floor White Plains, New York 10601 T 914 761 1300 F 914 761 5372 cuddyfeder.com

Daniel Patrick dpatrick@cuddyfeder.com

5/24/21

VIA ELECTRONIC AND FIRST CLASS 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 136 Vinegar Hill Road, Ledyard, CT 06335 Lat.: 41.425546°; Long.: -72.056943°

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 on the existing tower located at 136 Vinegar Hill Road in the Town of Ledyard, Connecticut. The underlying property and structure are owned by the State of Connecticut. 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 grade-level 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 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.

WESTCHESTER | NEW YORK CITY | HUDSON VALLEY | CONNECTICUT



5/24/21 Page 2

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." The planned modifications will ensure continuity of services by reinforcing AT&T's backup 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";
- 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.

Copies of the original approvals were not available at the time of this exempt modification filing. The Council database indicates that the tower was originally approved in Petition 55 in or around 1980 as a 180' above-grade level ("AGL") self-supporting lattice tower for use by the State Police and Coastal Cable TV. The Council subsequently approved AT&T's installation of a powermount extending the height to 199' AGL and construction of AT&T's telecommunications equipment in Petition 774 in 2006. Copies of the Council's Staff Report from Petition 774 is included as Attachment 2.

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 radio-frequency emissions.

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. §



5/24/21 Page 3

16-50j-73, a copy of this letter and enclosure are being sent to Mayor Fred Allyn, III of the Town of Ledyard as well as the property owner and structure owner identified above. Certification of Service 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 Fred Allyn, III, Town of Ledyard Town of Ledyard Planning Director Elizabeth Burdick State of Connecticut AT&T General Dynamics Information Technology, Inc. Lucia Chiocchio, Esq. Julie Durkin

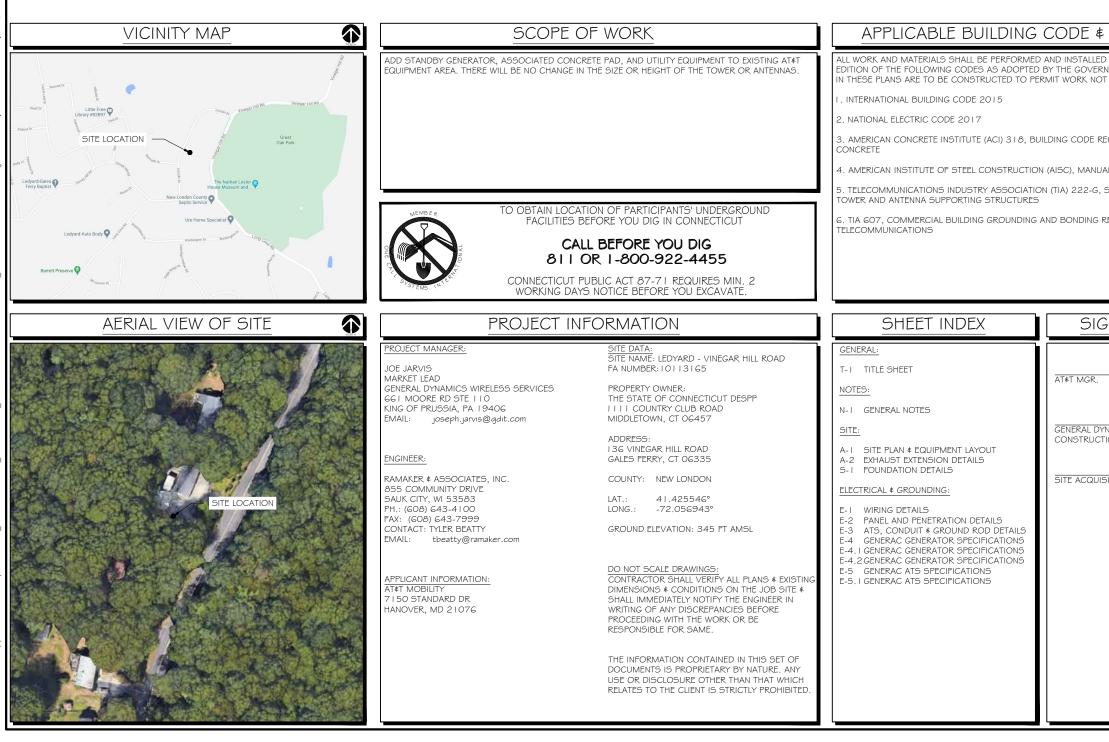
ATTACHMENT 1



SITE NAME: LEDYARD - VINEGAR HILL ROAD FA LOCATION CODE: 10113165

GENERATOR PROJECT 30KW GENERAC DIESEL GENERATOR 200A GENERAC ATS

136 VINEGAR H GALES FERRY

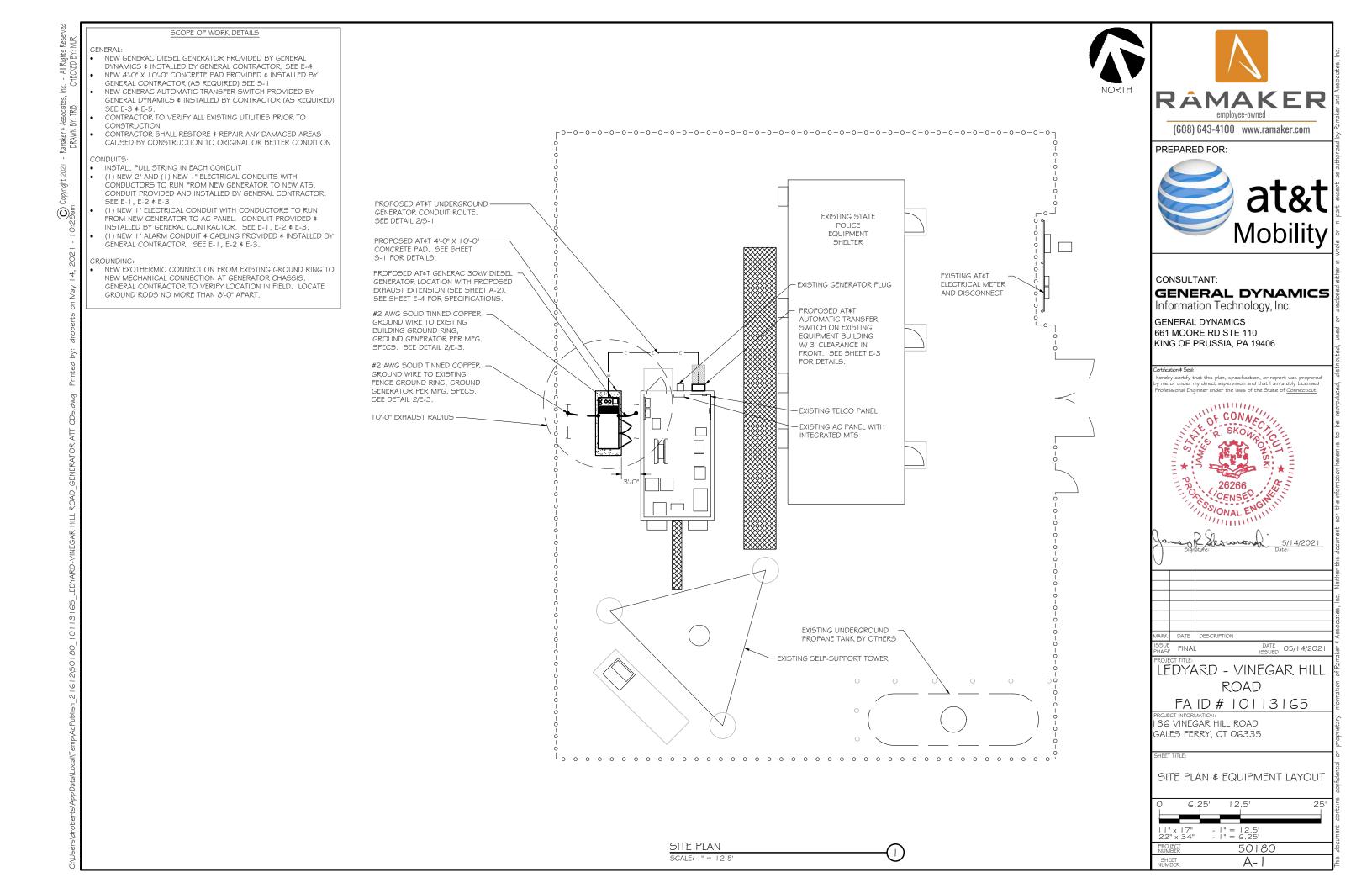


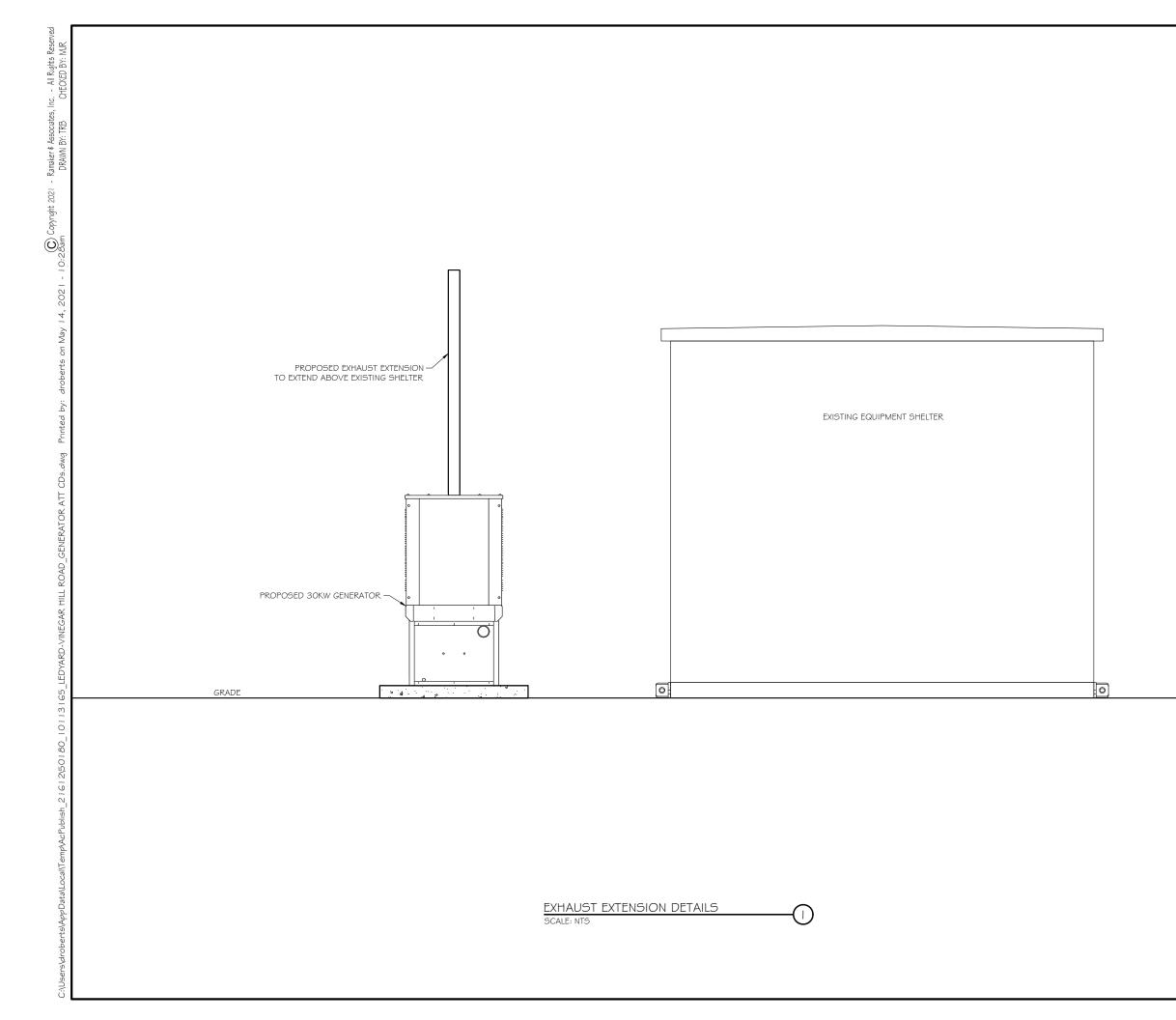
IILL ROAD 7, CT 06335	(6	ARED FOR: area for: area for: at at a for: brown of the form o
STANDARDS	CONS	ULTANT:
· · ·		NERAL DYNAMICS
IN ACCORDANCE WITH THE CL ING LOCAL AUTHORITIES. NO' CONFORMING TO THESE COD	HING ES: GENE 661 M	nation Technology, Inc. RAL DYNAMICS OORE RD STE 110 DF PRUSSIA, PA 19406
QUIREMENTS FOR STRUCTURA	nereby ce	rtify that this plan, specification, or report was prepared
L OF STEEL CONSTRUCTION		nder my direct supervision and that I am a duly Licensed al Engineer under the laws of the State of <u>Connecticut</u> .
TRUCTURAL STANDARDS FOR	STEEL	IN SE CONAUS
		SKOW SKOW
	11111111	26266 CENSED SIONAL ENGINE
NATURE BLOCK	0	
	Jane (Signature: 5/14/2021 Date:
DATE		
DAIL		
IAMICS DATE ON MGR.		
	ISSUE	TINAL DESCRIPTION
ITION DATE	PROJECT T	ISSUED .
		ROAD
	F	A ID # 10113165
	PROJECT I	NFORMATION: NEGAR HILL ROAD
	GALES	FERRY, CT 06335
	SHEET TIT	<u>E</u> :
		TITLE SHEET
	SCA	LE: NONE
	PROJECT NUMBER SHEET NUMBER	50180 TI
	NUMBER	-

g				
Reserve VJR			3.	SCHEDULE 80 PVC CONDUIT SHALL BE USED ABOVE GRO DEFINED AS THE GROUND OF THE TURN-UP
NI RIGHts I KED BY: N	I . THE GENERAL SUBCONTRACTOR MUST VERIFY ALL DIMENSIONS, CONDITIONS AND ELEVATIONS BEFORE PROCEEDING WITH THE WORK. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER IN ACCORDANCE WITH ACCEPTED CONSTRUCTION PRACTICES.	4. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH BY AT&T TECHNICIANS.	4.	BELL END OR TERMINAL ADAPTER MUST BE INSTALLED ON 352.46. 300.4 F, (3)
IC A CHEC	2. IT IS THE INTENTION OF THESE DRAWINGS TO SHOW THE COMPLETED INSTALLATION. THE	5. OUTDOOR STORAGE AND SOLID WASTE CONTAINERS ARE NOT PROPOSED.	5.	CONDUIT BENDS SHALL BE MADE IN ACCORDANCE WITH
ciates, In RB	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	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.
E Asso BY: TI	ACCORDANCE WITH LOCAL CODES.	7. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY THE CONSTRUCTION OPERATION.	6.	POWER WIRING SIZE SHALL NOT BE SMALLER THAN #12 A
Ramaker ∮ DRAWN	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.
- 120	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 1
yright 20	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	ELECTRICAL NOTES:	9.	CONTRACTOR SHALL ENSURE INTEGRITY IS MAINTAINED V WIRING.
с С С С С С С	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		10.	. INSTALL PULL STRING IN ALL CONDUIT.
0:28ar	WORKING HOURS AND CONSTRUCTION SUBCONTRACTOR FURTHER AGREES TO INDEMNIFY AND HOLD DESIGN ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH PERFORMANCE OF WORK ON THIS PROJECT.	EQUIPMENT SUPPLIER PRIOR TO INSTALLATION. 2. COORDINATE LOCATION AND REQUIREMENTS FOR ELECTRICAL AND TELEPHONE SERVICES	11.	. FOR ROOFTOP INSTALLS AND BUILD-OUTS, CONDUITS IN SHALL BE RGS, UNLESS OTHERWISE NOTED. FOR RAW L SCHEDULE 80 SHALL BE UTILIZED UNLESS NOTED OTHER
021-1	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	2. COORDINATE LOCATION AND REQUIREMENTS FOR ELECTRONE AND TELEFTIONE 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.	12.	MAINTAIN MINIMUM 1'-O" VERTICAL AND 1'-O" HORIZONTA MECHANICAL GAS PIPING.
/ 14, 2	TOWERS GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN. GROUNDING SHALL BE COMPLETED BEFORE ERECTION OF TOWER.	3. ALL WIRING AND EQUIPMENT SHOWN ON ELECTRICAL SHEETS SHALL BE FURNISHED AND INSTALLED UNDER ELECTRICAL PORTION OF CONTRACT UNLESS OTHERWISE NOTED	13.	ALL WIRING ROUTED IN PLENUM TO BE RATED OR IN MET
(Ma)	6. ALL WORK SHALL COMPLY WITH OSHA AND STATE SAFETY REQUIREMENTS. PROCEDURES FOR	4. UNINTERRUPTED ELECTRICAL SERVICE FOR EXISTING EQUIPMENT SHALL BE MAINTAINED	<u>C.</u> E	QUIPMENT
perts or	THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION, IF TEMPORARY LIGHTING AND MARKING IS REQUIRED BY THE FEDERAL AVIATION ADMINISTRATION (FAA). IT IS THE SUBCONTRACTOR'S	DURING THE INSTALLATION OF THE WORK DESCRIBED UNDER THESE DOCUMENTS. TEMPORARY EQUIPMENT, CABLES AND WHATEVER ELSE IS NECESSARY SHALL BE PROVIDED AS REQUIRED TO MAINTAIN ELECTRICAL SERVICE. TEMPORARY SERVICE FACILITIES. IF	١.	EQUIPMENT/PARTS CONNECTED TO EXISTING PANELS, DU CHARACTERISTICS (A/C, V, A) OF THAT EQUIPMENT.
drok	RESPONSIBILITY TO MAINTAIN THE NECESSARY LIGHTS AND NOTIFY THE PROPER AUTHORITIES IN THE EVENT OF A PROBLEM.	REQUIRED AT ANY TIME, SHALL NOT BE DISCONNECTED OR REMOVED UNTIL NEW SERVICE EQUIPMENT IS IN PROPER OPERATION. IF ANY SERVICE OR SYSTEM MUST BE INTERRUPTED.	2.	ALL ELECTRICAL EQUIPMENT OUTSIDE SHALL BE NEMA OF
H by:	7. ALL WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL	THE CONTRACTOR SHALL REQUEST PERMISSION IN WRITING STATING THE DATE, TIME, ETC. THE SERVICE WILL BE INTERRUPTED AND THE AREAS AFFECTED. THIS REQUEST SHALL BE	<u>D.</u> G	ROUNDING
Printed	CODES OR ORDINANCES. THE MOST STRINGENT CODE WILL APPLY IN THE CASE OF DISCREPANCIES OR DIFFERENCES IN THE CODE REQUIREMENTS.	MADE IN SUFFICIENT TIME FOR PROPER ARRANGEMENTS TO BE MADE. WRITTEN PERMISSION SHALL BE OBTAINED FROM THE OWNER BEFORE INTERRUPTING ELECTRICAL SERVICE.	١.	ALL GROUND CONNECTIONS TO BUILDING SHALL BE MAD PROVIDE STAINLESS STEEL BOLTS AND LOCK WASHERS (CONNECTIONS.
gwb.	8. ANY DAMAGE TO THE ADJACENT PROPERTIES WILL BE CORRECTED AT THE SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE LANDOWNER AND THE ENGINEER.	5. COORDINATE NEW WORK WITH OTHER TRADES AND VERIFY EXISTING CONDITIONS TO AVOID	2.	ALL EQUIPMENT SURFACES TO BE BONDED TO GROUNDI
TT CDs.	9. THE COMPLETE BID PACKAGE INCLUDES THESE CONSTRUCTION DRAWINGS ALONG WITH THE SPECIFICATIONS. SUBCONTRACTOR IS RESPONSIBLE FOR REVIEW OF TOTAL BID PACKAGE PRIOR	INTERFERENCE. IN CASE OF INTERFERENCE, AT&T'S REPRESENTATIVE WILL DECIDE WHICH WORK IS TO BE RELOCATED, REGARDLESS OF WHICH WAS FIRST INSTALLED.		ALL PAINT AND DIRT. CONNECTIONS TO VARIOUS METAL CAUSE A GALVANIC OR CORROSIVE REACTION. AREA SH BONDING.
OR A		G. THE INSTALLATION MUST COMPLY WITH NEC AND ALL FEDERAL, STATE AND LOCAL RULES AND REGULATIONS.	3.	ANY METALLIC ITEM WITHIN G' OF GROUND CONDUCTORS
ERAT	IO. SUBCONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES WITHIN CONSTRUCTION LIMITS PRIOR TO CONSTRUCTION.	 THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND EQUIPMENT UNLESS OTHERWISE DEFINED BY DIMENSIONS OR DETAILS. 	4	GROUNDING SYSTEM. EXTERIOR, ABOVE GRADE GROUND CONNECTIONS SHALL
GEN	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	EXACT EQUIPMENT LOCATIONS AND RACEWAY ROUTING SHALL BE GOVERNED BY ACTUAL FIELD CONDITIONS AND/OR DIRECTIONS FROM ATE'TS REPRESENTATIVE.	4 t .	PROTECTIVE COATING OF ANTI-OXIDE COMPOUND.
ROAD	OF THE SITE AT ALL TIMES. ANY DAMAGE TO ADJACENT PROPERTIES WILL BE CORRECTED AT THE SUBCONTRACTOR'S EXPENSE.	 CONTRACTOR SHALL PAY ALL PERMITS AND FEES REQUIRED. 	5.	ALL MATERIALS AND LABOR REQUIRED FOR THE GROUND PLANS AND DETAILS, AND AS DESCRIBED HEREIN SHALL I CONTRACTOR UNLESS OTHERWISE NOTED.
K HILL	I.2. 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	 ALL MATERIALS SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE STANDARDS REFERENCED BELOW: 	6	EXACT LOCATION OF GROUND CONNECTION POINTS SHA
INEGAR	DAMAGE TO THE PROPERTY OUTSIDE THE LEASED PROPERTY SHALL BE REPAIRED BY THE SUBCONTRACTOR.	 a. ANSI (AMERICAN NATIONAL STANDARDS INSTITUTE) b. ASTIM (AMERICAN SOCIETY FOR TESTING MATERIALS) c. ETL (ELECTRICAL TESTING LABORATORY) 	0.	ADJUST LOCATIONS INDICATED ON PLANS ACCORDING TO TO KEEP THE GROUND CONNECTION CABLES AS SHORT
RD-V	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	 d. ICEA (INSULATED CABLE ENGINEERS ASSOCIATION) e. IEEE (INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS) 	7.	PROVIDE ALL ELECTRICAL SYSTEM AND EQUIPMENT GROL CURRENT EDITION OF THE NATIONAL ELECTRIC CODE (19
EDYARD.	APPROVED BY GOVERNING AGENCIES PRIOR TO DISPOSAL.	f. MBFU (NATIONAL BOARD OF FIRE UNDERWRITERS) 9. NESC (NATIONAL ELECTRICAL SAFETY CODE)		THE NATIONAL ELECTRICAL SAFETY CODE. BONDING JUN FITTINGS SHALL BE INSTALLED AT ALL RACEWAYS, EQUIP
65_LE	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	 h. NEMA (NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION) I. NFPA (NATIONAL FIRE PROTECTION ASSOCIATION) 		ETC. TO MAINTAIN GROUND CONTINUITY WHERE REQUIRE
1316	PROVIDING AND MAINTAIN AN ADEQUATE COVER OF VEGETATION OVER THE SITE FOR A ONE YEAR PERIOD.	J. UL (UNDERWRITER'S LABORATORY)	8.	ALL EQUIPMENT GROUND CONDUCTORS SHALL BE TIN CON NOTED OTHERWISE ON THE DRAWINGS.
101	I 5. PERMITS: THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND INCURRING	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	9.	PROVIDE PRE AND POST GROUND TEST RESULTS, USING
0180	THE COST OF ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATES, ETC.	EQUIPMENT WILL BE LOCATED AND READILY ACCESSIBLE. QUANTITIES LISTED IN MATERIAL LISTS ON THE DRAWINGS ARE FOR INFORMATION ONLY. THE CONTRACTOR SHALL PROVIDE		SHALL BE PHOTOS WITH DIGITAL TIME AND GPS STAMPE
12/50	I G. RECORD DRAWINGS: MAINTAIN A RECORD OF ALL CHANGES, SUBSTITUTIONS BETWEEN WORK AS SPECIFIED AND INSTALLED. RECORD CHANGES ON A CLEAN SET OF CONTRACT	HIS OWN TAKEOFF FOR MATERIAL QUANTITY AND TYPES BASED ON ACTUAL SITE CONDITIONS, IN ADDITION, CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIALS TO		
h_2161	DRAWINGS WHICH SHALL BE TURNED OVER TO THE CONSTRUCTION MANAGER UPON COMPLETION OF THE PROJECT.	INSTALL EQUIPMENT FURNISHED BY AT\$T OR ITS SUPPLIERS. ALL ITEMS NOT SPECIFICALLY MENTIONED HEREIN OR SHOWN ON THE DRAWINGS, BUT WHICH ARE OBVIOUSLY NECESSARY TO MAKE A COMPLETE WORKING INSTALLATION, SHALL BE INCLUDED.	١.	THE CONTRACTOR, UPON COMPLETION OF HIS WORK, SI INFORMATION SHOULD BE GIVEN TO THE GENERAL CONT AS-BUILT SURVEY DOCUMENTS TO BE GIVEN TO THE OW
Publisł	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	II. THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING)	2.	CONTRACTOR SHALL SUPPLY DOCUMENTATION ATTESTIN
JACF	THE SUBCONTRACTOR TO VERIFY ALL UTILITIES, PIPELINES AND OTHER STRUCTURES SHOWN OR NOT SHOWN ON THESE PLANS. THE SUBCONTRACTOR SHALL CONTACT THE LOCAL	AT&T'S REPRESENTATIVE OF ANY CONFLICTS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK, IN THE EVENT OF DISCREPANCIES THE		SYSTEM'S RECEPTIVITY (MAX, 5 OHMS).
NTem	JURISDICTION'S DIGGER'S HOTLINE BEFORE DIGGING OR DRILLING. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER AND ENGINEER AT THE CURRENT PACTORY EXTENSION OF THE OWNER AND ENGINEER AT THE	CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED IN WRITING OTHERWISE.	э.	AN ELECTRICAL INSPECTION SHALL BE MADE BY AND INSI ATAT'S REPRESENTATIVE. CONTRACTOR SHALL COORDIN BOWER COMPANY APPROVAL
ta\Local	SUBCONTRACTOR'S EXPENSE.	I 2. ALL FLOORS WHERE PENETRATIONS ARE REQUIRED IN BUILDING ARE TO BE CORE DRILLED AND THEN FIREPROOFED.	4.	POWER COMPANY APPROVAL. CONTRACTOR SHALL HAVE ATS AND GENERATOR RELAY I INSPECTED BY OTHERS TO ENSURE THAT UL LISTING FOR
ррDа	I . THIS PROPOSAL IS FOR THE ADDITION OF A NEW GENERATOR ON A CONCRETE PAD TO AN	B, WIRING/CONDUIT		INGLETED DI OTTERO TO ENSURE THAT DE LISTING FOR
:rts\A	EXISTING UNMANNED TELECOMMUNICATIONS FACILITY CONSISTING OF AN EQUIPMENT SHELTER AND TOWER.	1. PROVIDE PULL BOXES AND JUNCTION BOXES WHERE SHOWN OR AS REQUIRED BY CODE		
s\drobe	2. THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE.	SUCH THAT NO MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (380 DEGREES TOTAL) EXIST IN A CONDUIT RUN. 2. ALL POWER AND CONTROL/INDICATION WIRING SHALL BE TYPE THHN/THWN 800V RATED 75		
User.	3. THE PROPOSED FACILITY IS UNMANNED AND IS NOT FOR HUMAN HABITAT. (NO HANDICAP	2. ALL FOWER AND CONTROL/INDICATION WIRING SHALL BE TYPE THEN/THWN 800V RATED 75 DEGREES CELSIUS, UNLESS NOTED OTHERWISE.		

 (\mathbf{O})

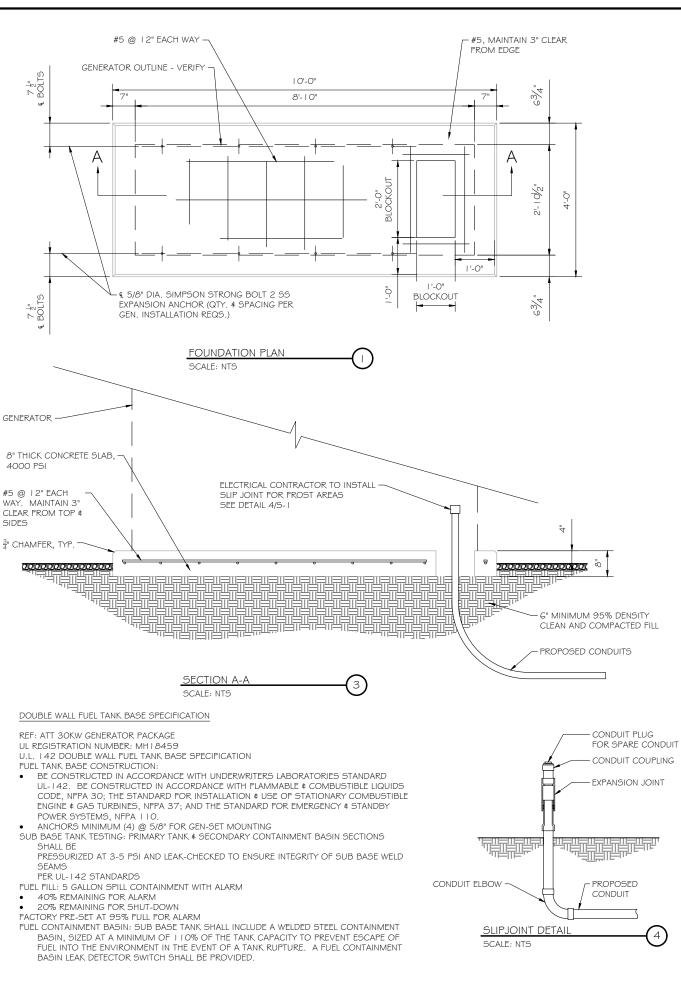
ROUND, WHERE ABOVE GRADE IS	
DN END OF PVC CONDUIT PER NEC	
H NEC TABLE 346-10. NO RIGHT WS WITH 12" MINIMUM INSIDE	RAMAKER employee-owned (608) 643-4100 www.ramaker.com
AWG.	employee-owned
E ACCEPTABLE ALL POWER CIRCUITS	(000) 040 4100 www.ramakor.com
TERMINATIONS.	PREPARED FOR:
WHEN INSTALLING CONDUIT AND	😂 at&t
NSIDE BUILDING AND ON ROOF LAND SITES AND CO-LOCATES, PVC RWISE.	Mobility
TAL SEPARATIONS FROM ANY	y
TALLIC FLEX (LIQUIDITE) CONDUIT.	CONSULTANT: GENERAL DYNAMICS
UCTS, ETC. SHALL MATCH THE	Information Technology, Inc. GENERAL DYNAMICS
DR 3R RATED.	661 MOORE RD STE 110 KING OF PRUSSIA, PA 19406
DE USING TWO-HOLE CONNECTORS.	Certification 4 Seal: 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 Connecticut.
DING SYSTEM SHALL BE STRIPPED OF ALS SHALL BE OF A TYPE AS TO SHALL BE REPAINTED FOLLOWING	OF CONNECTION
RS MUST BE CONNECTED TO THE	STANKA STANK
LL BE FURNISHED WITH A LIBERAL	
DING SYSTEM AS INDICATED ON THE . BE FURNISHED BY THIS	SONAL ENGINE
ALL BE DETERMINED IN FIELD. TO ACTUAL EQUIPMENT LOCATIONS TAS PRACTICAL.	Jane Roward 5/14/2021 Signature: Date:
DUNDS AS REQUIRED BY THE 999) AND THE CURRENT EDITION OF IMPERS WITH APPROVED GROUND PMENT ENCLOSURES, PULL BOXES, 2ED BY CODE.	
COATED, #2 AWG COPPER UNLESS	
G CLAMP-ON TESTER. TEST RESULTS ED/EMBEDDED.	MARK DATE DESCRIPTION ISSUE FINAL DATE 05/14/2021 PROJECT TITLE: LEDYARD - VINEGAR HILL
SHALL PROVIDE AS-BUILT DRAWINGS. ITRACTOR FOR INCLUSION IN FINAL WNER.	ROAD
NG TO THE COMPLETE GROUND	FA ID # 10113165 PROJECT INFORMATION: 136 VINEGAR HILL ROAD
SPECTING AGENCY APPROVED BY INATE ALL INSPECTIONS AND OBTAIN	GALES FERRY, CT 06335
INSTALLATION AND CONNECTIONS R THAT EQUIPMENT IS NOT VOIDED.	GENERAL NOTES
	SCALE: NONE
	PROJECT 50180
	NUMBER 50180 SHEET NUMBER N-1











ō 6" 6" TYP * SEPARATION DIMENSION TO BE VERIFIED LOCAL UTILITY COMPANY REQUIREMENTS NOTES I. PROVIDE PVC CONDUIT BELOW GRADE EXCEPT A 2. PROVIDE RGS CONDUIT AND ELBOWS AT STUB L SERVICE POLE, BTS EQUIPMENT, ETC.) 3. INSTALL UTILITY PULLBOXES PER NEC. UTILITY CONDUIT TRENCH SCALE: NTS

VERIFY WIRE AND CONDUIT QUANTITY ∉ SIZES WITH GENERATOR

MAKE & MODEL # PRIOR TO INSTALLATION. VERIFY ELECTRICAL

88888888

aaa

REQUIREMENTS WITH LOCAL UTILITY PROVIDER.

STRUCTURAL GENERAL NOTES

NOTE:

L.O. GENERAL CONDITIONS

- I.I DESIGN & CONSTRUCTION OF ALL WORK SHALL CONFORM TO LOCAL BUILDING CODES, AC BETWEEN THE CODES, STANDARDS, REGULATIONS, SPECIFICATIONS, GENERAL NOTES AND USE THE MOST STRINGENT PROVISIONS.
- I.2 IT IS THE EXPRESS INTENT OF PARTIES INVOLVED IN THIS PROJECT THAT THE CONTRACTOR INDEPENDENT CONTRACTOR OR THE RESPECTIVE EMPLOYEES SHALL EXCULPATE THE ARCH CONSTRUCTION MANAGER, THE OWNER, & THEIR AGENTS FROM ANY LIABILITY WHATSOEVE LOSS, DAMAGES, LIABILITY OR ANY EXPENSE ARISING IN ANY MATTER FROM THE WRONGFI CARRY METHODS, TECHNIQUES OR PROCEDURES OR FAILURE TO CONFORM TO THE STATI WITH THE WORK.
- 1.3 DO NOT SCALE DRAWINGS

2.0 FOR DESIGN &

- 1.4 VERIFY ALL EQUIPMENT MOUNTING DIMENSIONS PER MANUFACTURER DRAWINGS
- 1.5 DESIGN LOADS

GN LOADS ARE (GENERAC):	
LIVE LOAD	: 100 PSF
EQUIPMENT SIZE	: 889.1" H, 106" W, 38" D
WEIGHT WITH WOODEN SHIPPING SKID	
ENCLOSED GENERATOR	: 3974 LBS
DESIGN ∉ ANALYSIS OF THE FOUNDATION,	THE MINIMUM NET SOIL BEARING CAPACITY
DETE	

3 O CONCRETE 3. I MEET OR EXCEED THE FOLLOWING CODES & STANDARDS: DESIGN : ACI3 | 8- | | CONSTRUCTION : ACI301 CRSI MANUAL OF STANDARD PRACTICE DETAILING REINF. STEEL ASTM A 615 GRADE 60, DEFORMED MIXING ASTM C 94. READY MIX CONCRETE AIR ENTRAINMENT : ACI 3 | 8 AND ASTM C-260 ASTM C 33 AND C 330 (FOR LIGHT WEIGHT) AGGREGATE 3.2 CONCRETE STRENGTH AT 28 DAYS SHALL BE 4000 PSI MINIMUM 3.3 DO NOT FIELD BEND OR WELD TO GRADE GO REINFORCED STEEL 3.4 PROVIDE AIR ENTRAINED CONCRETE WITH AIR CONTENT OF 5 TO 7% FOR ALL CONCRETE EX 3.5 MAXIMUM AGGREGATE SIZE: 3/4"

- 3.6 DO NOT USE IN ADMIXTURE, WATER OR OTHER CONSTITUENTS OF CONCRETE WHICH HAS
- 3.7 MINIMUM COVER FOR REINFORCING STEEL SHALL BE AS SHOWN ON PLAN.
- 4.0 FOUNDATION & EXCAVATION NOTES
- 4.1 SLAB SHALL BE CONSTRUCTED UPON UNDISTURBED, NATURAL SUBGRADE OR COMPACTED MINIMUM NET ALLOWABLE BEARING CAPACITY OF 1800 PSF.
- 4.2 ALL ORGANIC AND/OR OTHER UNSUITABLE MATERIAL SHALL BE REMOVED FRO FOUNDATIO # THEN BACKFILLED WITH ACCEPTABLE GRANULAR FILL COMPACTED TO 95% OF MAXIMUM CONTENT (ASTM D1557).
- 4.3 THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES TO PREVENT ANY WATER, FR FOOTING OR STRUCTURAL SUBGRADE BEFORE & AFTER PLACING OF CONCRETE, AND UNTI

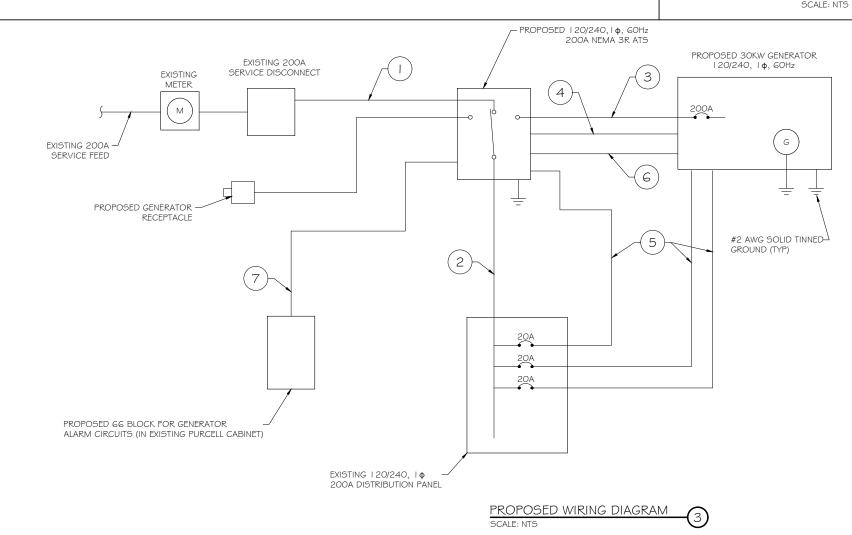
- RESTORE SURFACE TO MATCH	
ORIGINAL CONDITION	RÂMAKER
- UNDISTURBED SOIL	(608) 643-4100 www.ramaker.com
COMPACTED BACKFILL	PREPARED FOR:
G" WARNING TAPE	atot
	at&t
	Mobility
ELECTRICAL CONDUIT(5) WHERE APPLICABLE *	wiconity
	CONSULTANT:
9 WITH	GENERAL DYNAMICS Information Technology, Inc.
	GENERAL DYNAMICS
S NOTED BELOW.	661 MOORE RD STE 110 KING OF PRUSSIA, PA 19406
JP LOCATIONS (I.E.	Certification & Seal:
	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> .
2)	
	SKOW
	A CALL
	26266 CENSE
	SOIONAL ENGININ
CI 318-11. IN CASE OF CONFLICT D/OR MANUFACTURER'S REQUIREMENTS,	Janes R Skywork 5/14/2021
R OR SUBCONTRACTOR OR ITECT, THE ENGINEER, TECH.	Signatufe: Date:
ER & HOLD THEM HARMLESS AGAINST JL OR NEGLIGENT ACT, OR FAILURE TO	
E SCAFFOLDING ACT IN CONNECTIONS	
	MARK DATE DESCRIPTION
SHALL BE ASSUMED TO BE 2000 PSF.	PHASE FINAL ISSUED 05/14/2021 PROJECT TITLE:
	LEDYARD - VINEGAR HILL ROAD
	FA ID # 10113165
	PROJECT INFORMATION: I 36 VINEGAR HILL ROAD
	GALES FERRY, CT 06335
XPOSED TO EARTH OR WEATHER.	SHEET TITLE:
CALCIUM CHLORIDE.	FOUNDATION DETAILS
D GRANULAR FILL WITH AN ASSUMED	SCALE: NONE
N & SLAB SUBGRADE & BACKFILL AREAS, DENSITY AT OPTIMUM MOISTURE	
ROST, OR ICE FROM PENETRATING ANY	PROJECT 50180
L SUCH CONCRETE HAS FULLY CURED.	SHEET S_

DIAGRAM CIRCUIT SCHEDULE									
NO.	FROM	ТО	WIRES	GROUND	CONDUIT SIZE	FUNCTION			
	NORMAL POWER SOURCE	AUTOMATIC TRANSFER SWITCH			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	(1) #10	1	START CIRCUIT			
5	LOAD CENTER (DISTRIBUTION CENTER)	GENERATOR, ATS	(2) #12 (2) #12 (2) #12	() # 2 () # 2 () # 2	n 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 6-PAIR CAT5	N/A	l "	ALARM CABLES (1) 12 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	l "	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			

CIRCUIT DETAIL

ALARM WIRE 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					







_

VPN DI: MAV												U.L CONDUIT THROUGH BEA
												 FLOOR OR WALL ASSEMBLY : N NORMAL WEIGHT (100-150 PC ANY UL CLASSIFIED CONCRETE CONCRETE BLOCKS 9CAT2) CA OF MANUFACTURERS. THROUGH PENETRATIONS : ON ON BOTH SIDES OF FLOOR OR
Z	Breaker Position 1	Breaker Type	On/Off	Size	AC Distribution Pane Circuit Label	l - Layout D Breaker Position 2	iagram Breaker Type 1P	On/Off ON	Size 20	Circuit Label SPARE		MINIMUM O". (POINT CONTACT) OF METALLIC PIPES OR CONDU A. STEEL PIPE-NOMINAL G" DI, STEEL PIPE. B. IRON PIPE-NOMINAL G" DIA C. CONDUIT - NOMINAL 4" DI/
0.10	3 5 7	2P 1P 1P	ON ON ON	50 20 20	HVAC 1 INTERIOR LIGHTS GFCI	4	1P 1P	ON ON	20 20	TELCO RECEPT RECEPT LEFT		TUBING OR NOMINAL 3-1/2" [3. PACKING MATERIAL: MINIMUM INSULATION FIRMLY PACKED IN MATERIAL TO BE RECESSED FR OF WALL AS REQUIRED TO ACC
	9 11 13	1P 2P	ON ON	20 30	EXTERIOR LIGHTS RECTIFIER 1	10 12 14	2P 2P	ON ON	50 30	HVAC 2 RECTIFIER 2		MATERIAL. 4. FILL, VOID, OR CAVITY MATERI/ MATERIAL APPLIED WITHIN THE WITH BOTH SURFACES OF WAL
1 IVIAY 1-7,	15 17	2P	ON	30	RECTIFIER 3	16 18	2P	ON	30	RECTIFIER 4	NOTE: I. IF EXISTING CONSTRUCTION VARIES FROM THIS DETAIL, AN EQUAL 3-HR	CONCRETE, A MINIMUM 1/2" D THE CONCRETE/PIPE INTERFACE SURFACES OF WALL. W RATING USED.
	19 21 23	2P	ON	30	RECTIFIER 5	20 22 24	2P	ON	30	RECTIFIER 6	U.L. PENETRATION APPROPRIATE FOR THE EXISTING WALL TYPE SHALL BE CONSTRUCTED 2. GC SHALL USE NON-SHRINKING CAULK	HILTI CONSTRUCTION CHEMICALS, SEALANT.
	25 27	2P 2P	ON ON	30 30	RECTIFIER 7	26 28	2P 1P	ON ON	30 20	RECTIFIER 8	TO WEATHERSEAL ALL PENETRATIONS INTO OR THRU SHELTER WALL.	* BEARING THE UL CLASSIFICATION
1111100	29 31 33 35	1P 1P	ON ON	20 20	SPARE SPARE	30 32 34 36	1P 1P 1P 1P	ON ON ON ON	20 20 20 20	GFCI SMOKE DETECTOR ATS BLOCK HEATER	OUTER WAI	LL PENETRATION DETAIL (IF A
	37 39 41					38 40 42	1P	ON	20	BATTERY CHARGER		
				AND BATT	D 20A BREAKERS FOR ATS TERY CHARGER ON NEW AT& PANEL SCHEDULE	, BLOCK HEA)				
											Type GR CABLE TAP TO TOP OF GROUND ROD TOP OF GROUND ROD	Type GY THROUGH CABLE TO SIDE OF GROUND ROD
											Type VN Fype VN HORIZONTAL CABLE TAP TO VERTICAL STEEL SURFACE OR THE SIDE OF HORIZONTAL PIPE HORIZONTAL PIPE	AL CABLE TO JE OR VERTICAL STEEL SURFACE OR TO THE DR SIDE OF EITHER
קרים ומישוביים וויף אירים			MILAR LABEI		WITH P-TOUCH OR ISOLUTELY NO BELS.	SEQL	IENCE SINGL OR, BATTER) UTILIZE NEX LE BREAKER I LY CHARGER, BLOCK HEAT	POSITION F	OR		
												CADWELD DETAILS

U.L. SYSTEM NO. C-AJ-1150 ROUGH BEARING WALL SIMILAR TO U.L. DESIGN NO. U902 F RATING = 3 HRT RATING = O HR

- SEMBLY : MINIMUM 4-1/2" THICK REINFORCED LIGHTWEIGHT OR 00-150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF CONCRETE BLOCKS*. MAX DIAMETER OF OPENING IS 4". SEE 9CATZ) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES
- TIONS : ONE METALLIC PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED FLOOR OR WALL ASSEMBLY. THE ANNULAR SPACE SHALL BE CONTACT) TO MAXIMUM 1-3/8". THE FOLLOWING TYPES AND SIZES OR CONDUITS MAY BE USED:
- MINAL 6" DIAMETER (OR SMALLER) SCHEDULE 40 (OR HEAVIER) INAL 6" DIAMETER (OR SMALLER) CAST OR DUCTILE IRON PIPE.
- MINAL 4" DIAMETER (OR SMALLER) STEEL ELECTRICAL METALLIC VAL 3-1/2" DIAMETER (OR SMALLER) STEEL CONDUIT. MINIMUM 6" THICKNESS OF MIN 4.0 PCF MINERAL WOOL BATTING
- PACKED INTO OPENING AS A PERMANENT FORM. PACKING ECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES RED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL
- ITY MATERIAL*: SEALANT: MINIMUM 1/4" THICKNESS OF FILL MITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR AND CES OF WALL. AT THE POINT CONTACT LOCATION BETWEEN PIPE AND /UM 1/2" DIAMETER BEAD OF FILL MATERIAL SHALL BE APPLIED AT INTERFACE ON THE TOP SURFACE OF FLOOR AND ON BOTH . W RATING APPLIES ONLY WHEN CPGOIS OR CPGO4 SEALANT IS

HEMICALS, DIV OF HILTI INC. : CPGOIS, CPGO4, CPGO6, OR FS-ONE

SSIFICATION MARK

AIL (IF APPLICABLE) 2



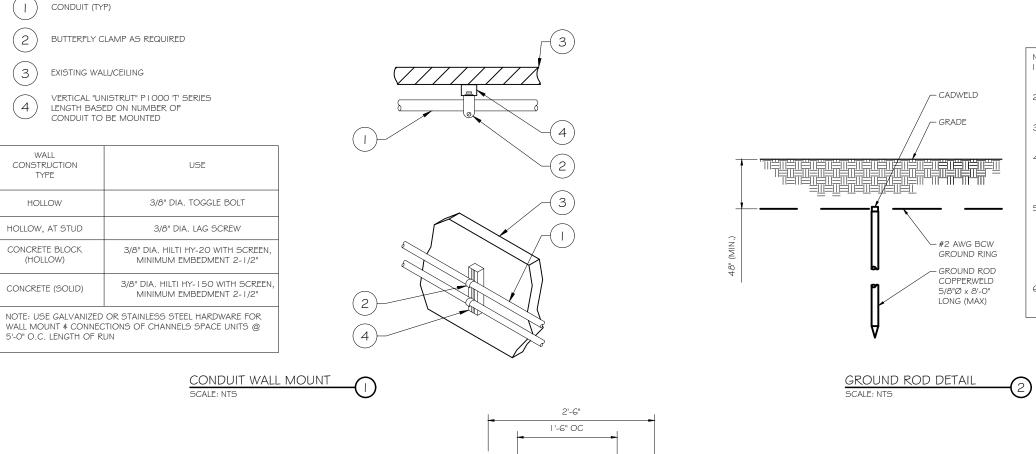
Type HS HORIZONTAL CABLE TAP TO HORIZONTAL STEEL SURFACE OR PIPE. CABLE OFF SURFACE.

Type GR

CABLE TAP TO TOP OF GROUND ROD







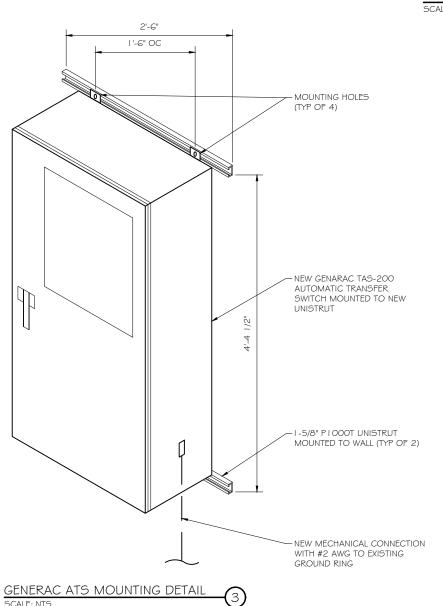
SCALE: NTS

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"

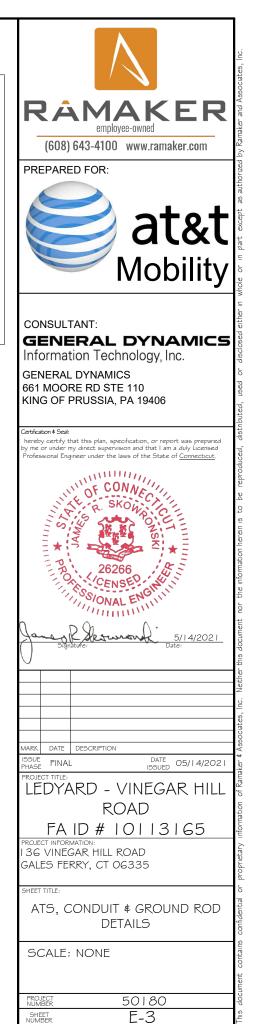
NOTE:

. 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



- NOTE:
- GROUND RODS MAY BE: - COPPER CLAD STEEL
- SOLID COPPER GROUND RODS SHALL HAVE 2 A MAXIMUM SPACING TWICE THE LENGTH OF ROD
- SEE RESISTIVITY REPORT FOR VERIFICATION AS AVAILABLE
- A LARGER CONDUCTOR SHALL BE REQUIRED IN AREAS HIGHLY PRONE TO LIGHTNING AND/OR AREAS 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) PROVIDE (1) GROUND LEAD TO EACH SIDE OF THE GENERATOR





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.







Image used for illustration purposes only

Powering Ahead

For over 50 years, Generac has provided 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 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 applications under adverse conditions.

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

SD030 | 2.2L | 30 kW

INDUSTRIAL DIESEL GENERATOR SET EPA Certified Stationary Emergency

STANDARD FEATURES

ENGINE SYSTEM

- Oil Drain Extension
- Air Cleaner
- Fan Guard
- Stainless Steel Flexible Exhaust Connection Factory Filled Oil and Coolant
- Radiator Duct Adapter (Open Set Only)
- Critical Silencer (Enclosed Unit Only)
- Engine Coolant Heater

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

Electrical System

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

CONTROL SYSTEM



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
- All Phase Sensing Digital Voltage Regulator
- 2-Wire Start Capability
- Date/Time Fault History (Event Log)
- Isochronous Governor Control
- · Waterproof/Sealed Connectors

- Protect Finish

 - Gasketed Doors
- Amortisseur Winding (3-Phase Only) Full Load Capacity Alternator
- Protective Thermal Switch

Rotor Dynamically Spin Balanced

GENERATOR SET

ALTERNATOR SYSTEM

Class H Insulation Material

UL2200 GENprotect[™]

• 2/3 Pitch

Skewed Stator

Sealed Bearing

Brushless Excitation

- 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)

 - Coolant Temperature
 - Coolant Level
 - Engine Speed
 - Battery Voltage
- Customizable Alarms, Warnings, and Events
- Modbus[®] 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 on the Display

Full System Status Display

- Power Output (kW)
- Power Factor
- kW Hours, Total, and Last Run Real/Reactive/Apparent Power
- All Phase AC Voltage
- All Phase Currents



- · Audible Alarms and Shutdowns Not in Auto (Flashing Light)
- Auto/Off/Manual Switch
- E-Stop (Red Mushroom-Type)
- NFPA110 Level I and II (Programmable)



ENCLOSURE (If Selected)

- Rust-Proof Fasteners with Nylon Washers to High Performance Sound-Absorbing Material (Sound Attenuation Enclosures) Stamped Air-Intake Louvers • Upward Facing Discharge Hoods (Badiator and Exhaust)
- Stainless Steel Lift Off Door Hinges Stainless Steel Lockable Handles
- RhinoCoat[™] 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[™] - Textured Polyester Powder Coat Paint Stainless Steel Hardware
- Oil Pressure
- 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)





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

O 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

GENERAC INDUSTRIAL

- 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)
- 100 dB Alarm Horn Ground Fault Annunciation
- 120V GFCI and 240V Outlets
- Remote Communication Modem
- O 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
- O 5 Gallon Spill Box Return Hose

- Fuel Level Switch and Alarm

FUEL TANKS

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	Closed Recovery
EPA Emissions Compliance	Stationary Emergency	Water Pump Type	Pre-Lubed, Self Sealing
EPA Emissions Reference	See Emission Data Sheet	Fan Type	Pusher
Cylinder #	4	Fan Speed - RPM	1,980
Туре	In-Line	Fan Diameter - in (mm)	18 (457)
Displacement - in ³ (L)	135 (2.22)		
Bore - in (mm)	3.3 (84)	Fuel System	
Stroke - in (mm)	3.9 (100)	Fuel Type	Ultra Low Sulfur Diesel Fuel #2
Compression Ratio	23.3:1	Fuel Specifications	ASTM
Intake Air Method	Turbocharged	Fuel Filtering (Microns)	5
Cylinder Head	Cast Iron	Fuel Inject Pump	Distribution Injection Pump
Piston Type	Aluminum	Fuel Pump Type	Engine Driven Gear
Crankshaft Type	Forged Steel	Injector Type	Mechanical
		Fuel Supply Line - in (mm)	0.31 (7.9) ID
Engine Governing		Fuel Return Line - in (mm)	0.2 (4.8) ID
Governor	Electronic Isochronous		
Frequency Regulation (Steady State)	±0.5%	Engine Electrical System	
		System Voltage	12 VDC
Lubrication System		Battery Charger Alternator	Standard
Oil Pump Type	Gear	Battery Size	See Battery Index 0161970SBY
Oil Filter Type	Full-Flow	Battery Voltage	12 VDC
Crankcase Capacity - qt (L)	11.2 (10.6)	Ground Polarity	Negative

ALTERNATOR SPECIFICATIONS

Standard Model	K0035124Y21	Standard Excitation	Brus
Poles	4	Bearings	Sing
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	Digit
Telephone Interference Factor (TIF)	< 50	Number of Sensed Phases	All
		Regulation Accuracy (Steady State)	±0.

GENERAC 30KW GENERATOR SPECIFICATIONS SCALE: NTS



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

Door Alarm Switch

• Level 2 Sound Attenuation with Motorized Dampers

O Enclosure Heater

WARRANTY (Standby Gensets Only)

- O 5 Year Extended Limited Warranty
- O 7 Year Extended Limited Warranty
- O 5 Gallon Spill Box Tank Risers
- - Fire Rated Stainless Steel Fuel Hose
- O 12' Vent System

Up to 200 MPH Wind Load Rating (Contact Factory • AC/DC Enclosure Lighting Kit

- Damper Alarm Contacts

CIRCUIT BREAKER OPTIONS

• Shunt Trip and Auxiliary Contact

Main Line Circuit Breaker

○ Electronic Trip Breakers

ENCLOSURE

Steel Enclosure

Aluminum Enclosure

for Availability)

O 2nd Main Line Circuit Breaker

Weather Protected Enclosure

Level 1 Sound Attenuation

Level 2 Sound Attenuation

- O 2 Year Extended Limited Warranty
- 5 Year Limited Warranty

10 Year Extended Limited Warranty

ALTERNATOR SYSTEM

○ 3rd Breaker System

GENERATOR SET

Special Testing



osed Recovery
e-Lubed, Self Sealing
sher
980
(457)

2 VDC
andard
ee Battery Index 0161970SBY
2 VDC
egative

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





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 Resist
	C-UL-US Listed - Automatic Transfer Sv
	Stainless Steel Hardware
	3-Point Latching System with Pad-Lockable
	Wall
Mounting Options	H-frame
Installed	Pre-wired alarm terminal strip

Electrical Specifications				
120/240 Single-Phase, 200A 120/208 3-Phase, 200A 120/240 3-Phase, 200A				
Eaton 200 amp Utility Breaker				
Eaton 200 amp Generator Breaker				
25k AIC Rated				
200				
350MCM - #6 AWG				
350MCM - #6 AWG				
Deutsch DTM04-12PA-L012				
Generator Run Alarm				
Generator Fail – Shutdown Alarm				
Generator Fail – Non Shutdown Alar				
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 Comball Consults Conserving	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			



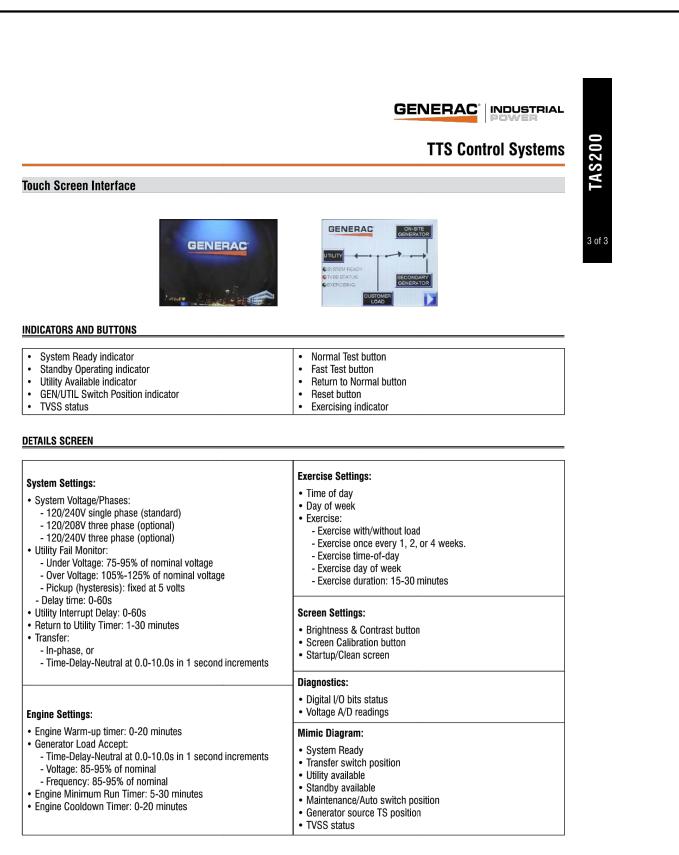
Application and Engineering Data

tance
witch
e Handles

rm	







E E

81

ght 2021

 $(\mathbf{O})_{\mathbf{f}}^{\mathbf{f}}$

Generac Power Systems, Inc. • S45 W29290 HWY. 59, Waukesha, WI 53189 • generac.com @2013 Generac Power Systems, Inc. All rights reserved. All specifications are subject to change without notice. Bulletin 0195670SBY-B / Printed in U.S.A. 03/13/13

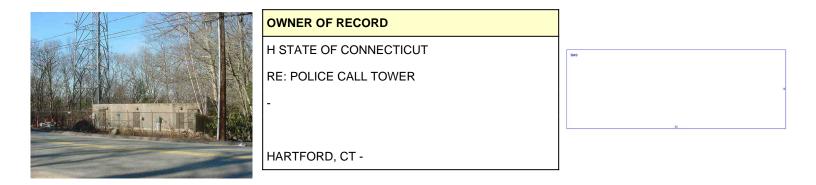
GENERAC ATS SPECIFICATIONS SCALE: NTS



Town of Ledyard Property Summary Report

136 VINEGAR HILL RD

PARCEL ID:	93-2540-136
LOCATION:	136 VINEGAR HILL RD
OWNER NAME:	H STATE OF CONNECTICUT / RE: POLICE CALL TOWER



LIVING AREA:	900	ZONING:	R40	ACREAGE:	0.52
SALES HISTORY					
OWNER			BOOK / PAGE	SALE DATE	SALE PRICE
H STATE OF CONNECTICUT RE: POLICE CALL TOWER			00014/0282	04-Apr-1941	\$0.00
CURRENT ASSESSED VALUE					

TOTAL: \$148,960.00	IMPROVEMENTS:	\$104,160.00	LAND:	\$44,800.00
---------------------	---------------	--------------	-------	-------------

ASSESSING HISTORY				
FISCAL YEAR	TOTAL VALUE	IMPROVEMENT VALUE	LAND VALUE	
2020	\$148,960.00	\$104,160.00	\$44,800.00	
2019	\$144,830.00	\$102,270.00	\$42,560.00	
2018	\$144,830.00	\$102,270.00	\$42,560.00	
2017	\$144,830.00	\$102,270.00	\$42,560.00	
2016	\$144,830.00	\$102,270.00	\$42,560.00	

Town of Ledyard Property Summary Report

136 VINEGAR HILL RD

PARCEL ID:	93-2540-136	
LOCATION:	136 VINEGAR HILL RD	
OWNER NAME:	R NAME: H STATE OF CONNECTICUT / RE: POLICE CALL TOWER	

BUILDING # 1						
YEAR BUILT	1995	ROOF STRUCTURE	Reinforc Concr			
STYLE	Other State	ROOF COVER	Concrete Tile			
MODEL	Ind or Comm	FLOOR COVER 1	Concr-Finished			
GRADE	Average	FLOOR COVER 2	NULL			
STORIES	1	HEAT FUEL	Electric			
OCCUPANCY	State M96	НЕАТ ТҮРЕ	None			
EXT WALL 1	Concr/Cinder	АС ТҮРЕ	None			
EXT WALL 2	NULL	BEDROOMS	NULL			
INT WALLS 1	Minim/Masonry	FULL BATHS	NULL			
INT WALLS 2	NULL	HALF BATHS	NULL			
		TOT ROOMS	NULL			

EXTRA FEATURES				
DESCRIPTION	CODE	UNITS		
RADIO TOWER	MSC33	NULLxNULL (180.00 UNIT)		
Fence- 8ft Chn	FN4	NULLxNULL (346.00 L.F.)		



Ledyard, CT MapsOnline

Printed on 05/21/2021 at 05:35 PM

180

360 ft

0

ATTACHMENT 2

Petition No. 774 New Cingular Wireless & Omnipoint Communications, Inc. Ledyard, Connecticut Staff Report July 12, 2006

On July 11, 2006, Connecticut Siting Council (Council) member James Murphy with Robert Mercier of Council staff met New Cingular Wireless (Cingular) representatives Christopher Fisher, Douglas Roberts and David Osuch for inspection of an existing Connecticut State Police tower located at 136 Vinegar Hill Road in Ledyard. Cingular and Omnipoint Communications Inc. (T-Mobile), with the agreement of the Connecticut State Police, propose to modify the structure to allow for the installation of telecommunications equipment and is petitioning the Council for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required for the modification.

The existing tower consists of a 180-foot self-supporting lattice tower that supports various whip antennas and dish antennas used by several State agencies including the State Police, CT DEP, CT DOT, CT DPH and a local cable television company. A single equipment building is located at the base of the tower within an 80-foot by 100-foot fenced compound. A driveway provides access from Vinegar Hill Road.

Cingular and T-Mobile propose to erect a powermount within the interior of the existing lattice tower. The powermount would extend to a height of 199 feet above ground level. Cingular would install three flush mounted panel antennas at a centerline height of 196 feet. T-Mobile would install three flush mounted panel antennas at a centerline height of 187 feet. No relocation of any existing whip or dish antennas would be necessary. Although the proposed panel antennas are located at similar heights to the existing whip antennas, there would be no radio frequency interference since the panel antennas would be oriented to avoid transmission directly into the whip antennas.

The powermount would not be able to support any additional loading due to structural capacity limitations. An extension of the existing tower to accommodate the proposed antenna loading, rather than installing a powermount, would require extensive tower modifications.

Cingular would install an 11-foot by 20-foot equipment shelter within the existing compound. T-Mobile would install equipment cabinets on a concrete pad. Evergreens would be installed along the fence perimeter facing Vinegar Hill Road to provide screening.

The site is located in a residential area of Ledyard and has been in existence for several decades. A majority of the immediate surrounding area is wooded. Two residences on wooded parcels directly abut the site. Undeveloped town owned property is located immediately east of the site.

The visibility impact of the site would be minimal due to the wooded nature of the surrounding area and the wide profile of the existing tower. Although the powermount would extend to a height of 199 feet, several whip antennas currently extend to a height of 195 feet. Thus, the tower would appear minimally taller and slightly more prominent.

The worst-case power density for proposed telecommunications operations at the site has been calculated to be 13.4% of the applicable standard for uncontrolled environments.

Cingular and T-Mobile contend that the proposed modification of the structure would not cause a substantial adverse environmental impact and would eliminate the need for an additional telecommunications tower to provide coverage to the area.

ATTACHMENT 3

CERTIFICATION

I hereby certify that on the <u>24th</u> day of <u>May</u>, 2021, 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 owner.

Dated: May 24, 2021

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