GENERAL DYNAMICS Wireless Services

August 15, 2018

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

Re: Notice of Exempt Modification – Emergency Backup Generator 389 Route 2, Preston, CT 06365

Dear Melanie,

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- The proposed modification does not increase the noise levels at the boundary by six
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Best Regards,

plonna Dave

Donna Love / Site Acquisition Manager, exclusive agent of AT&T Mobility General Dynamics IT, Inc. Mobile #315-480-5529

Enc.

Cc: Town of Preston – Robert Congdon, First Selectman Town of Preston – Kathy B. Warzecha, Town Planner Town of Preston – Kathy LaCombe, Building Official Crown Castle – Paul Pedicone, Tower Owner



TOWN OF PRESTON TOWN OFFICES 389 ROUTE 2 PRESTON, CONNECTICUT 06360

Date: April 5, 2000

Certified Mail

Sprint Spectrum, L.P. One International Blvd Suite 800 Mahwah New, Jersey 07495

Dear Attorney Regan:

At the regular meeting of the Preston Planning and Zoning Commission held on April 3, 2000, the Commission reviewed application **Site Plan # 2-00** for the installation of a monopole and other associated work at 389 Route 2.

The Commission voted unanimously to approve the subject application with the following modifications:

1. A bond be posted for the site work in the amount of 64,500.00, and bond be posted for the monopole removal in the amount of 42,000.00.

2. A fall easement be obtained around the monopole that is equal to the height of the monopole (150 feet). The easement area should be shown on the plan.

Please provide one mylar copy of the plan revised in accordance with the above noted and produced or reproduced in compliance with section 7-31 of the Connecticut General Statues regarding requirements for the filing of a map. In addition, provide two (2) paper copies. After endorsement of the plan by the Chairman, the mylar copy of the plan must be filed with the Town Clerk's office.

BONDING: Prior to the endorsement of the plan the two bonds in the amount of **\$64,500.00** (site work bond) and **\$42,000.00** (tower removal bond) must be filed with the Commission using the format as approved by the Commission. Please use bond forms that were previously provided. The Town will hold the bonds until such time the Commission approves their reduction or release. Any plan filed without the appropriate bond will be considered to be in violation with the approved plan and zoning regulations. In order for the Commission to consider a bond release or reduction, a letter requesting a release or reduction must be submitted to the Planning and Zoning Office two (2) weeks prior to the regularly scheduled meeting. This will allow adequate time to conduct a site inspection of the completed work. Unauthorized work could result in delays with the bond release or reduction by the Commission.

OTHER PERMITS REQUIRED: Prior to the commencement of any work, a zoning permit and other subsequent town and state permits must be obtained.

SITE INSPECTIONS: During the construction of the project, inspections will be conducted of the progress by the town staff. A forty-eight hour notice is required for the inspections. In the event that there is concern with the location of the structure, parking etc, the Zoning Enforcement Officer may require that a land surveyor licensed in the State of Connecticut locate the structure prior to construction. Failure to provide notice to the town of the work and failure to construct the project as shown on the plan without prior approval of the changes could result in problems with the issuance of Certificate of Occupancy and the release or reduction of the bond. Please contact the Planning and Zoning Office at 889-2529 to schedule an appointment to inspect the project at the following times:

- 1. After the installation of the erosion and sediment control.
- 2. After the structure has been staked out and the footings are to be placed.
- 3. After the parking and sidewalks have been staked out.
- 4. Completion of the project.

If there are any questions regarding this application or if the staff can be of any assistance at any time during the project construction, please do not hesitate to contact the office.

Congratulations on the success completion of the application.

Very truly yours,

Daniel Kuleszackw)

Daniel Kulesza Planning and Zoning Commission Chairman

cc: ZEO First Selectman Building Inspector

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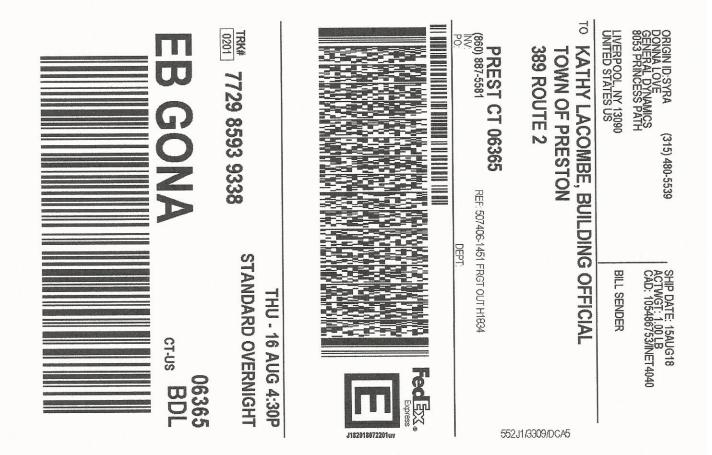
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Page 1 of 1



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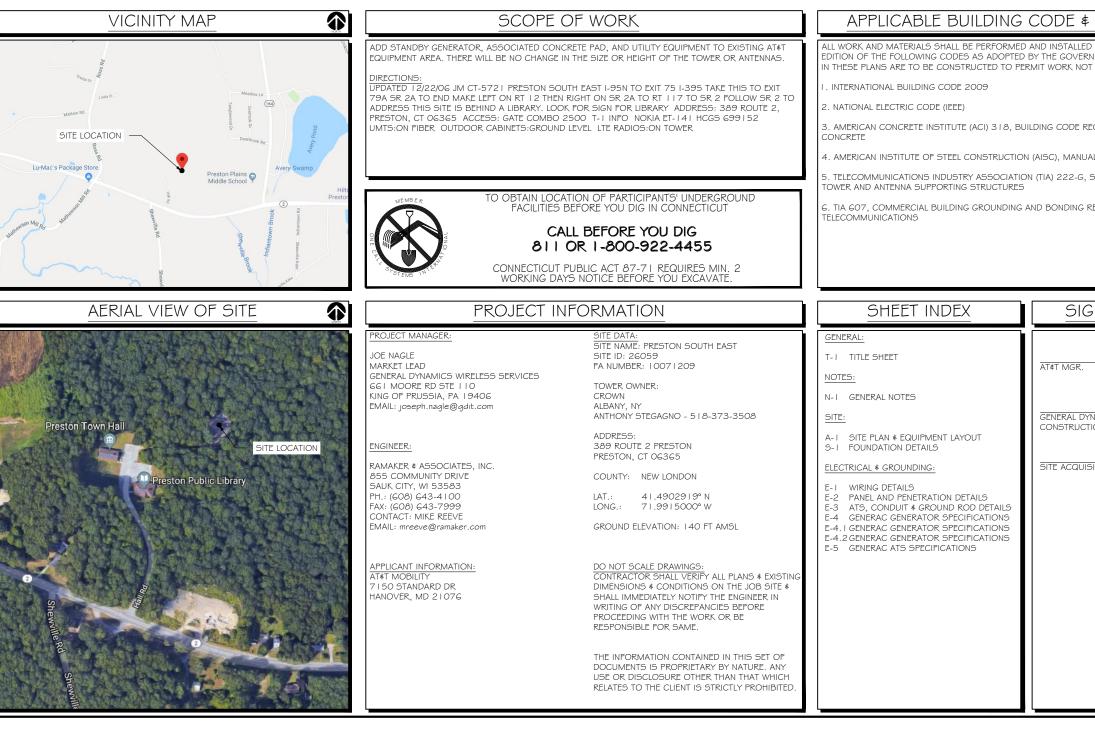
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SITE NAME: PRESTON SOUTH EAST FA LOCATION CODE: 10071209 GENERATOR PROJECT



	RAMARER & ASSOCIATES, INC. LOW EMPLOYEE-OWNED S55 Community Dr, Sauk City, WI 53583 608-643-4100 www.Ramaker.com Sauk City, WI • Willmar, MN Woodcliff Lake, NJ • Bayamon, PR PREPARED FOR: PREPARED FOR: Attack of the state of t
	CONSULTANT:
STANDARDS IN ACCORDANCE WITH THE CURRENT UNG LOCAL AUTHORITIES. NOTHING CONFORMING TO THESE CODES:	GENERAL DYNAMICS Information Technology, Inc. GENERAL DYNAMICS 661 MOORE RD STE 110 KING OF PRUSSIA, PA 19406
QUIREMENTS FOR STRUCTURAL	Certification # 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> .
L OF STEEL CONSTRUCTION	MANDER
STRUCTURAL STANDARDS FOR STEEL	CONNECTION OF CONNECTION
EQUIREMENTS FOR	26266 26266 CENSENOUL
NATURE BLOCK	
DATE	Signature: B/02/2018 Date:
NAMICS DATE	
ION MGR.	A 8/2/18 REVISION A MARK DATE DESCRIPTION
	ISSUE FINAL DATE 08/02/2018
ITION DATE	PROJECT TITLE: PRESTON SOUTH EAST FA ID # 10071209
	PROJECT INFORMATION: 389 ROUTE 2 PRESTON PRESTON, CT 06365
	SHEET TITLE:
	TITLE SHEET
	SCALE: NONE
	PROJECT 39938
	SHEET T-I

<u>⊮</u>	NOTES TO SUBCONTRACTOR:	ACCESS IS REQUIRED)	 CONDUIT BENDS SHALL BE MADE IN ACCORDANCE WITH ANGLE DEVICE OTHER THAN STANDARD CONDUIT ELBOY
ED BY: MJR	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.	SWEEPS FOR ALL CONDUITS 2" OR LARGER. 4. POWER WIRING SIZE SHALL NOT BE SMALLER THAN #12
CHECKEI	2. IT IS THE INTENTION OF THESE DRAWINGS TO SHOW THE COMPLETED INSTALLATION. THE	5. OUTDOOR STORAGE AND SOLID WASTE CONTAINERS ARE NOT PROPOSED.	 TOWER WINING SIZE STALL NOT BE SWALLER THAN #12 ALL WIRING SHALL BE COPPER. ALUMINUM WILL NOT BE
° C	SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY BRACING, SHORING, TIES, FORM WORK, ETC. IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL ORDINANCES, TO SAFELY	6. ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.	SHALL CONTAIN A GROUND WIRE.
N: TRB	EXECUTE ALL WORK AND SHALL BE RESPONSIBLE FOR SAME. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES.	7. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY THE	6. PHASE MARKINGS TO BE USED AT POWER CONDUCTOR
RAWN B	3. THE SUBCONTRACTOR SHALL USE ADEQUATE NUMBER OF SKILLED WORKMAN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY	CONSTRUCTION OPERATION. 8. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTION	 CONTRACTOR SHALL ENSURE INTEGRITY IS MAINTAINED WIRING.
Ğ	FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND METHOD NEEDED FOR PROPER PERFORMANCE OF THE WORK.	REQUIRED FOR CONSTRUCTION.	8. INSTALL PULL STRING IN ALL CONDUIT.
	4. CONSTRUCTION SUBCONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED	9. SUBCONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.	 FOR ROOFTOP INSTALLS AND BUILD-OUTS, CONDUITS I SHALL BE RGS, UNLESS OTHERWISE NOTED. FOR RAW
	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	ELECTRICAL NOTES: A. GENERAL	SCHEDULE 80 SHALL BE UTILIZED UNLESS NOTED OTHE
	THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND CONSTRUCTION SUBCONTRACTOR FURTHER AGREES TO INDEMNIFY AND	 COORDINATE LOCATION AND POWER REQUIREMENTS OF ALL EQUIPMENT WITH AT&T AND EQUIPMENT SUPPLIER PRIOR TO INSTALLATION. 	MECHANICAL GAS PIPING.
	HOLD DESIGN ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH PERFORMANCE OF WORK ON THIS PROJECT.	2. COORDINATE LOCATION AND REQUIREMENTS FOR ELECTRICAL AND TELEPHONE SERVICES	II. ALL WIRING ROUTED IN PLENUM TO BE RATED OR IN ME
Z.	5. SITE GROUNDING SHALL COMPLY WITH AT¢T WIRELESS SERVICES TECHNICAL SPECIFICATIONS	WITH THE PROPERTY REPRESENTATIVE, AT\$T AND UTILITY COMPANIES. ROUTING OF CONDUITS MAY BE MODIFIED TO MEET SITE REQUIREMENTS. EXACT CONDUIT ROUTING TO	<u>C. EQUIPMENT</u>
Z:4	FOR FACILITY GROUNDING FOR CELL SITE STANDARDS, LATEST EDITION, AND COMPLY WITH AT&T TOWERS GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING	BE DETERMINED IN THE FIELD.	 EQUIPMENT/PARTS CONNECTED TO EXISTING PANELS, D CHARACTERISTICS (A/C, V, A) OF THAT EQUIPMENT.
- 010	CODES ARE MORE STRINGENT THEY SHALL GOVERN. GROUNDING SHALL BE COMPLETED BEFORE ERECTION OF TOWER.	ALL WIRING AND EQUIPMENT SHOWN ON ELECTRICAL SHEETS SHALL BE FURNISHED AND INSTALLED UNDER ELECTRICAL PORTION OF CONTRACT UNLESS OTHERWISE NOTED	2. ALL ELECTRICAL EQUIPMENT OUTSIDE SHALL BE NEMA C
i î	6. ALL WORK SHALL COMPLY WITH OSHA AND STATE SAFETY REQUIREMENTS. PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE	 UNINTERRUPTED ELECTRICAL SERVICE FOR EXISTING EQUIPMENT SHALL BE MAINTAINED DURING THE INSTALLATION OF THE WORK DESCRIBED UNDER THESE DOCUMENTS. 	D. GROUNDING
6	ESTABLISHED PRIOR TO FOUNDATION INSTALLATION, IF TEMPORARY LIGHTING AND MARKING IS REQUIRED BY THE FEDERAL AVIATION ADMINISTRATION (FAA), IT IS THE SUBCONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE NECESSARY LIGHTS AND NOTIFY THE PROPER AUTHORITIES IN THE EVENT OF A PROBLEM.	TEMPORARY EQUIPMENT, CABLES AND WHATEVER ELSE IS NECESSARY SHALL BE PROVIDED AS REQUIRED TO MAINTAIN ELECTRICAL SERVICE. TEMPORARY SERVICE FACILITIES, IF 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.	 ALL GROUND CONNECTIONS TO BUILDING SHALL BE MA PROVIDE STAINLESS STEEL BOLTS AND LOCK WASHERS CONNECTIONS.
y: bpeerz u	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 CONTRACTOR SHALL REQUEST PERMISSION IN WRITING STATLING THE ADE, TIME, ETC. THE SERVICE WILL BE INTERRUPTED AND THE AREAS AFFECTED. THIS REQUEST SHALL BE MADE IN SUFFICIENT TIME FOR PROPER ARRANGEMENTS TO BE MADE. WRITTEN PERMISSION SHALL BE OBTAINED FROM THE OWNER BEFORE INTERRUPTING ELECTRICAL SERVICE.	 ALL EQUIPMENT SURFACES TO BE BONDED TO GROUND ALL PAINT AND DIRT. CONNECTIONS TO VARIOUS META CAUSE A GALVANIC OR CORROSIVE REACTION. AREA S BONDING.
	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	 ANY METALLIC ITEM WITHIN G' OF GROUND CONDUCTOR GROUNDING SYSTEM.
	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.	4. EXTERIOR, ABOVE GRADE GROUND CONNECTIONS SHAL PROTECTIVE COATING OF ANTI-OXIDE COMPOUND.
	TO BID SUBMITTAL 10. SUBCONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES WITHIN CONSTRUCTION LIMITS PRIOR TO CONSTRUCTION.	 G. THE INSTALLATION MUST COMPLY WITH NEC AND ALL FEDERAL, STATE AND LOCAL RULES AND REGULATIONS. 7. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF 	 ALL MATERIALS AND LABOR REQUIRED FOR THE GROUN PLANS AND DETAILS, AND AS DESCRIBED HEREIN SHALL CONTRACTOR UNLESS OTHERWISE NOTED.
1	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	SYSTEMS AND EQUIPMENT UNLESS OTHERWISE DEFINED BY DIMENSIONS OR DETAILS. EXACT EQUIPMENT LOCATIONS AND RACEWAY ROUTING SHALL BE GOVERNED BY ACTUAL FIELD CONDITIONS AND/OR DIRECTIONS FROM AT&T'S REPRESENTATIVE.	6. EXACT LOCATION OF GROUND CONNECTION POINTS SH. ADJUST LOCATIONS INDICATED ON PLANS ACCORDING TO KEEP THE GROUND CONNECTION CABLES AS SHORT
	SUBCONTRACTOR'S EXPENSE.	8. CONTRACTOR SHALL PAY ALL PERMITS AND FEES REQUIRED.	7. PROVIDE ALL ELECTRICAL SYSTEM AND EQUIPMENT GRC
	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.	 ALL MATERIALS SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE STANDARDS REFERENCED BELOW: a. ANSI (AMERICAN NATIONAL STANDARDS INSTITUTE) b. ASTIM (AMERICAN SOCIETY FOR TESTING MATERIALS) 	CURRENT EDITION OF THE NATIONAL ELECTRIC CODE (15 THE NATIONAL ELECTRICAL SAFETY CODE. BONDING JU FITTINGS SHALL BE INSTALLED AT ALL RACEWAYS, EQUIF ETC. TO MAINTAIN GROUND CONTINUITY WHERE REQUIR
	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.	 c. ETL (ELECTRICAL TESTING LABORATORY) d. ICEA (INSULATED CABLE ENGINEERS ASSOCIATION) e. IEEE (INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS) f. MBFU (NATIONAL BOARD OF FIRE UNDERWRITERS) 	8. ALL EQUIPMENT GROUND CONDUCTORS SHALL BE TIN C NOTED OTHERWISE ON THE DRAWINGS.
	14. SEEDING AND MULCHING OF THE SITE WILL BE ACCOMPLISHED AS SOON AS POSSIBLE AFTER	 ned 6 (NATIONAL ELECTRICAL SAFETY CODE) nesc (NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION) 	E. INSPECTION/DOCUMENTATION
	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.	I. NFPA (NATIONAL FIRE PROTECTION ASSOCIATION) J. UL (UNDERWRITER'S LABORATORY)	I. THE CONTRACTOR, UPON COMPLETION OF HIS WORK, S INFORMATION SHOULD BE GIVEN TO THE GENERAL CON AS-BUILT SURVEY DOCUMENTS TO BE GIVEN TO THE ON AS-BUILT SURVEY DOCUMENTS TO BE GIVEN TO THE ON
	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 LISTS ON THE DRAWINGS ARE FOR INFORMATION ONLY. THE CONTRACTOR SHALL PROVIDE	2. CONTRACTOR SHALL SUPPLY DOCUMENTATION ATTESTI SYSTEM'S RECEPTIVITY (MAX. 5 OHMS).
	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 DRAWINGS WHICH SHALL BE TURNED OVER TO THE CONSTRUCTION MANAGER UPON COMPLETION OF THE PROJECT.	HIS OWN TAKEOFF FOR MATERIAL QUANTITY AND TYPES BASED ON ACTUAL SITE CONDITIONS, IN ADDITION, CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIALS TO INSTALL EQUIPMENT FURNISHED BY AT≰T OR ITS SUPPLIERS. ALL ITEMS NOT SPECIFICALLY MENTIONED HEREIN OR SHOWN ON THE DRAWINGS, BUT WHICH ARE OBVIOUSLY	 AN ELECTRICAL INSPECTION SHALL BE MADE BY AND INS AT&TS REPRESENTATIVE. CONTRACTOR SHALL COORDI POWER COMPANY APPROVAL.
	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	NECESSARY TO MAKE A COMPLETE WORKING INSTALLATION, SHALL BE INCLUDED. 11. THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) ATET'S REPRESENTATIVE OF ANY CONFLICTS PRIOR TO THE SUBMISSION OF CONTRACTOR'S	 CONTRACTOR SHALL HAVE ATS AND GENERATOR RELAY INSPECTED BY OTHERS TO ENSURE THAT UL LISTING FO
emp\AcPubl	INE SUBCONTRACTOR TO VERIFY ALL UTITIES, FIFELINES AND UTHER STRUCTORES SHOWN OR NOT SHOWN ON THESE PLANS. THE SUBCONTRACTOR SHALL CONTACT THE LOCAL 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 SUBCONTRACTOR'S EXPENSE.	PROPOSAL OR PERFORMANCE OF WORK, IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED IN WRITING OTHERWISE.	
	GENERAL NOTES:	I 2. ALL FLOORS WHERE PENETRATIONS ARE REQUIRED IN BUILDING ARE TO BE CORE DRILLED AND THEN FIREPROOFED.	
	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 AND TOWER.	B. WIRING/CONDUIT	
	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.	
j	3. THE PROPOSED FACILITY IS UNMANNED AND IS NOT FOR HUMAN HABITAT. (NO HANDICAP	 ALL POWER AND CONTROL/INDICATION WIRING SHALL BE TYPE THHN/THWN 800V RATED 75 DEGREES CELSIUS, UNLESS NOTED OTHERWISE. 	

/ITH NEC TABLE 346-10. NO RIGHT BOWS WITH 12" MINIMUM INSIDE

12 AWG.

BE ACCEPTABLE ALL POWER CIRCUITS

OR TERMINATIONS.

ED WHEN INSTALLING CONDUIT AND

TS INSIDE BUILDING AND ON ROOF AW LAND SITES AND CO-LOCATES, PVC THERWISE.

ONTAL SEPARATIONS FROM ANY

METALLIC FLEX (LIQUIDITE) CONDUIT.

, DUCTS, ETC. SHALL MATCH THE

OR 3R RATED.

MADE USING TWO-HOLE CONNECTOR: RS ON ALL MECHANICAL GROUND

INDING SYSTEM SHALL BE STRIPPED O ETALS SHALL BE OF A TYPE AS TO SHALL BE REPAINTED FOLLOWING

ORS MUST BE CONNECTED TO THE

HALL BE FURNISHED WITH A LIBERAL

UNDING SYSTEM AS INDICATED ON THE ALL BE FURNISHED BY THIS

SHALL BE DETERMINED IN FIELD. IG TO ACTUAL EQUIPMENT LOCATIONS ORT AS PRACTICAL.

GROUNDS AS REQUIRED BY THE (1999) AND THE CURRENT EDITION OF JUMPERS WITH APPROVED GROUND UIPMENT ENCLOSURES, PULL BOXES, JIRED BY CODE.

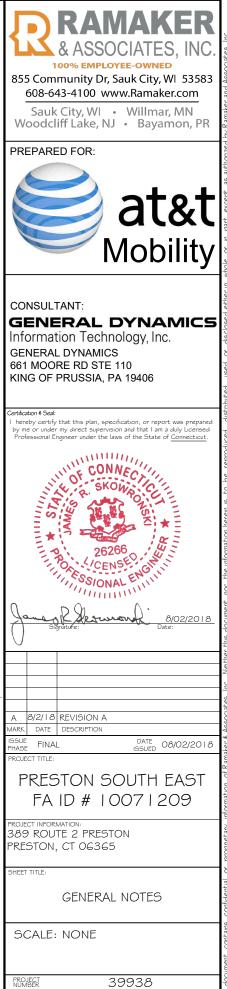
I COATED, #2 AWG COPPER UNLESS

, SHALL PROVIDE AS-BUILT DRAWINGS ONTRACTOR FOR INCLUSION IN FINAL OWNER.

STING TO THE COMPLETE GROUND

INSPECTING AGENCY APPROVED BY RDINATE ALL INSPECTIONS AND OBTAIN

AY INSTALLATION AND CONNECTIONS FOR THAT EQUIPMENT IS NOT VOIDED.



N-1

SHEET NUMBER

SCOPE OF WORK DETAILS

- GENERAL: • NEW GENERAC DIESEL GENERATOR PROVIDED BY GENERAL DYNAMICS & INSTALLED BY GENERAL CONTRACTOR, SEE E-4. • NEW 4'-0" X 10'-0" CONCRETE PAD PROVIDED & INSTALLED BY
- GENERAL CONTRACTOR (AS REQUIRED) SEE S-1 • NEW GENERAC AUTOMATIC TRANSFER SWITCH PROVIDED BY
- GENERAL DYNAMICS & INSTALLED BY CONTRACTOR (AS REQUIRED) SEE E-3 & E-5. • CONTRACTOR TO VERIFY ALL EXISTING UTILITIES PRIOR TO
- CONTRACTOR TO VENIT ALL EXISTING UTILITIES FROM TO CONSTRUCTION
 CONTRACTOR SHALL RESTORE ¢ REPAIR ANY DAMAGED AREAS
- CONTRACTOR STALL RESTORE & REFAIL AND DAMAGED ARE CAUSED BY CONSTRUCTION TO ORIGINAL OR BETTER CONDITION

CONDUITS

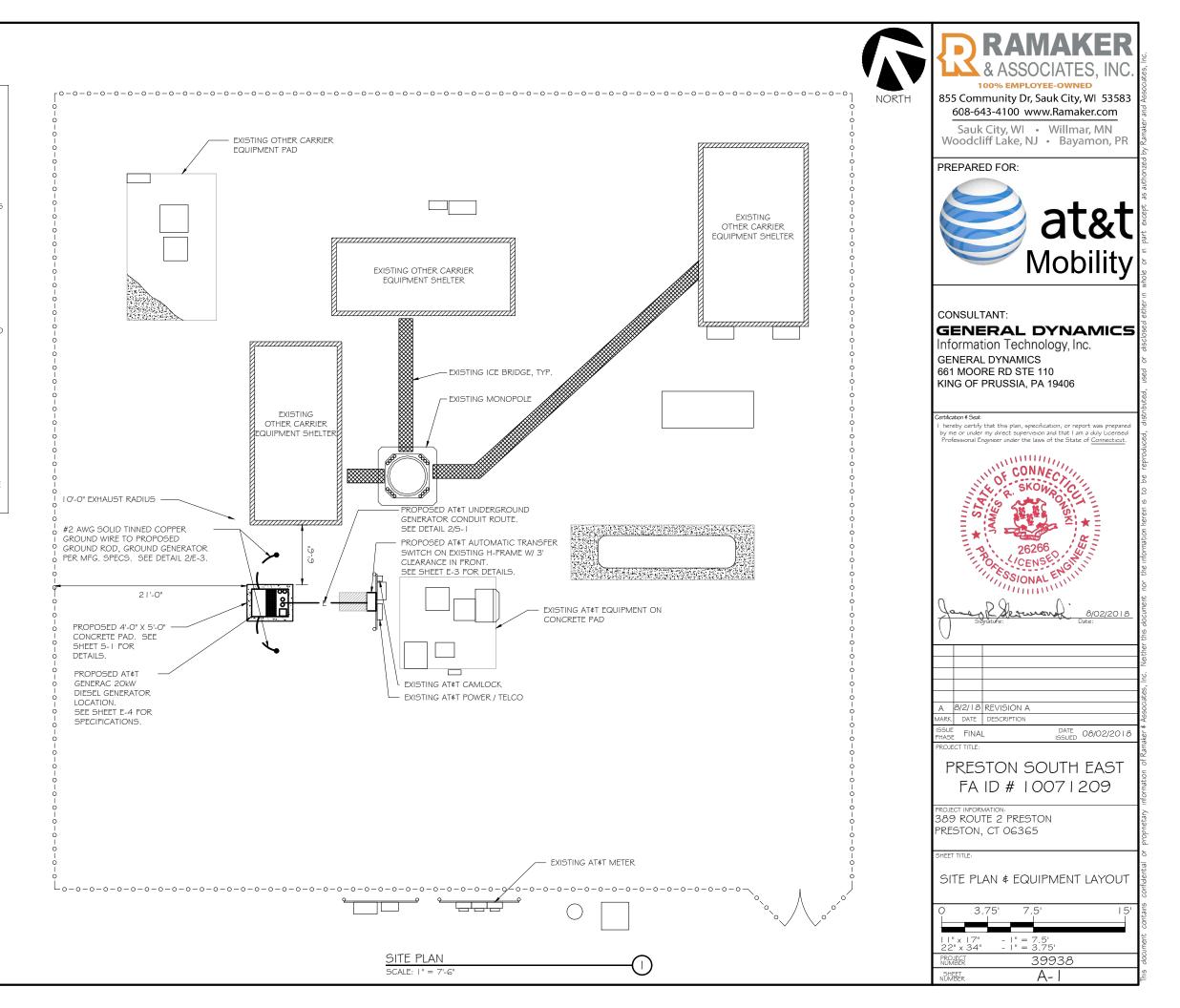
- INSTALL PULL STRING IN EACH CONDUIT
 (1) NEW 2" AND (1) NEW 1" ELECTRICAL CONDUITS WITH
- (1) NEW 2" AND (1) NEW 1" ELECTRICAL CONDUITS WITH CONDUCTORS TO RUN FROM NEW GENERATOR TO NEW ATS. CONDUIT PROVIDED AND INSTALLED BY GENERAL CONTRACTOR. SEE E-1, E-2 & E-3.
- (2) NEW I" ELECTRICAL CONDUIT WITH CONDUCTORS TO RUN FROM NEW GENERATOR TO AC PANEL. CONDUIT PROVIDED ¢ INSTALLED BY GENERAL CONTRACTOR. SEE E-1, E-2 ¢ E-3.
 (1) NEW I" ALARM CONDUIT ¢ CABLING PROVIDED ¢ INSTALLED
- (1) NEW 1" ALARM CONDUIT ¢ CABLING PROVIDED ¢ INSTAU BY GENERAL CONTRACTOR. SEE E-1, E-2 ¢ E-3.

GROUNDING:

 NEW EXOTHERMIC CONNECTION FROM EXISTING GROUND RING TO NEW MECHANICAL CONNECTION AT GENERATOR CHASSIS. GENERAL CONTRACTOR TO VERIFY LOCATION IN FIELD. LOCATE GROUND RODS NO MORE THAN 8'-0" APART.

H-FRAME:

 PROVIDE NEW H-FRAME IF REQUIRED, MATCH EXISTING H-FRAME MATERIAL FOR CONSTRUCTION OF NEW H-FRAME. USE ALL GALVANIZED COMPONENTS, WHITE PLASTIC END CAPS ON UNISTRUTS, WEATHER CAPS ON TOPS OF PIPE AND CONCRETE SUPPORTS BELOW FROST LINE. TOP OF FOOTING SHOULD BE AT LEAST 2" ABOVE EXISTING GROUND LEVEL. SLOPE THE GROUND AWAY FROM THE H-FRAME FOR POSITIVE WATER DRAINAGE OFF THE FORM.

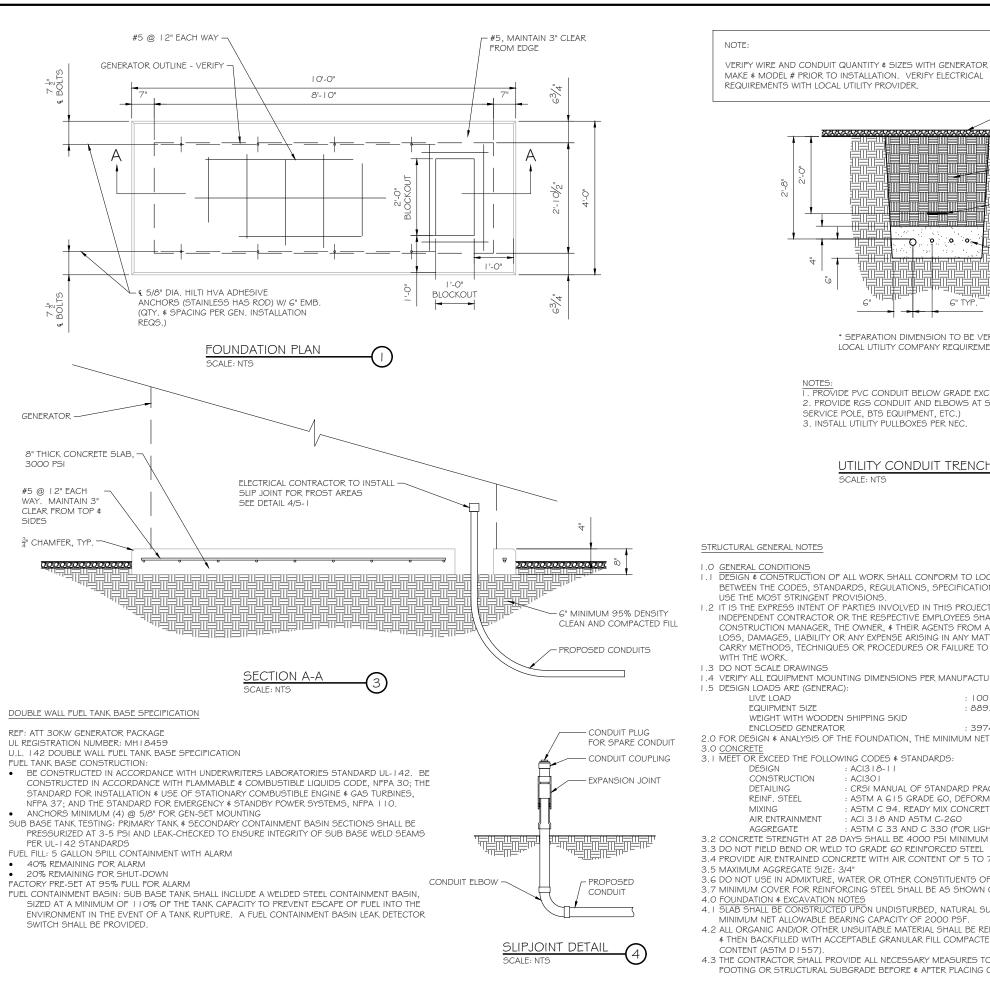


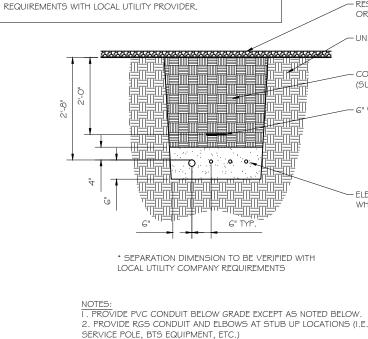
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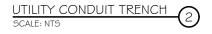
 \odot







^{3.} INSTALL UTILITY PULLBOXES PER NEC.



STRUCTURAL GENERAL NOTES

- LO GENERAL CONDITIONS
- 1.1 DESIGN & CONSTRUCTION OF ALL WORK SHALL CONFORM TO LOCAL BUILDING CODES, ACI 318-11. IN CASE OF CONFLICT BETWEEN THE CODES, STANDARDS, REGULATIONS, SPECIFICATIONS, GENERAL NOTES AND/OR MANUFACTURER'S REQUIREMENTS, USE THE MOST STRINGENT PROVISIONS.
- 1.2 IT IS THE EXPRESS INTENT OF PARTIES INVOLVED IN THIS PROJECT THAT THE CONTRACTOR OR SUBCONTRACTOR OR INDEPENDENT CONTRACTOR OR THE RESPECTIVE EMPLOYEES SHALL EXCULPATE THE ARCHITECT, THE ENGINEER, TECH. CONSTRUCTION MANAGER, THE OWNER, & THEIR AGENTS FROM ANY LIABILITY WHATSOEVER & HOLD THEM HARMLESS AGAINST LOSS. DAMAGES, LIABILITY OR ANY EXPENSE ARISING IN ANY MATTER FROM THE WRONGFUL OR NEGLIGENT ACT. OR FAILURE TO CARRY METHODS, TECHNIQUES OR PROCEDURES OR FAILURE TO CONFORM TO THE STATE SCAFFOLDING ACT IN CONNECTIONS
- 1.4 VERIFY ALL EQUIPMENT MOUNTING DIMENSIONS PER MANUFACTURER DRAWINGS
 - LOO PSE FOUIPMENT SIZE : 889.1" H, 106" W, 38" D WEIGHT WITH WOODEN SHIPPING SKID
 - ENCLOSED GENERATOR : 3974 LBS
- 2.0 FOR DESIGN & ANALYSIS OF THE FOUNDATION, THE MINIMUM NET SOIL BEARING CAPACITY SHALL BE ASSUMED TO BE 2000 PSF.
- 3.1 MEET OR EXCEED THE FOLLOWING CODES ¢ STANDARDS: ACI3 | 8- | | CONSTRUCTION CRSI MANUAL OF STANDARD PRACTICE ASTM A GI5 GRADE GO, DEFORMED REINF. STEEL ASTM C 94. READY MIX CONCRETE AIR ENTRAINMENT ACI 318 AND ASTM C-260 AGGREGATE ASTM C 33 AND C 330 (FOR LIGHT WEIGHT) 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 EXPOSED TO EARTH OR WEATHER.
- 3.6 DO NOT USE IN ADMIXTURE, WATER OR OTHER CONSTITUENTS OF CONCRETE WHICH HAS CALCIUM CHLORIDE.
- 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 GRANULAR FILL WITH AN ASSUMED MINIMUM NET ALLOWABLE BEARING CAPACITY OF 2000 PSF. 4.2 ALL ORGANIC AND/OR OTHER UNSUITABLE MATERIAL SHALL BE REMOVED FRO FOUNDATION & SLAB SUBGRADE & BACKFILL AREAS
- # THEN BACKFILLED WITH ACCEPTABLE GRANULAR FILL COMPACTED TO 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT (ASTM D1557).
- 4.3 THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES TO PREVENT ANY WATER, FROST, OR ICE FROM PENETRATING ANY FOOTING OR STRUCTURAL SUBGRADE BEFORE & AFTER PLACING OF CONCRETE, AND UNTIL SUCH CONCRETE HAS FULLY CURED.

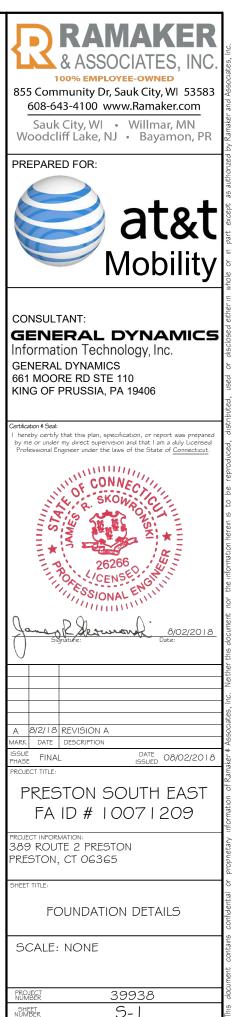
RESTORE SURFACE TO MATCH ORIGINAL CONDITION

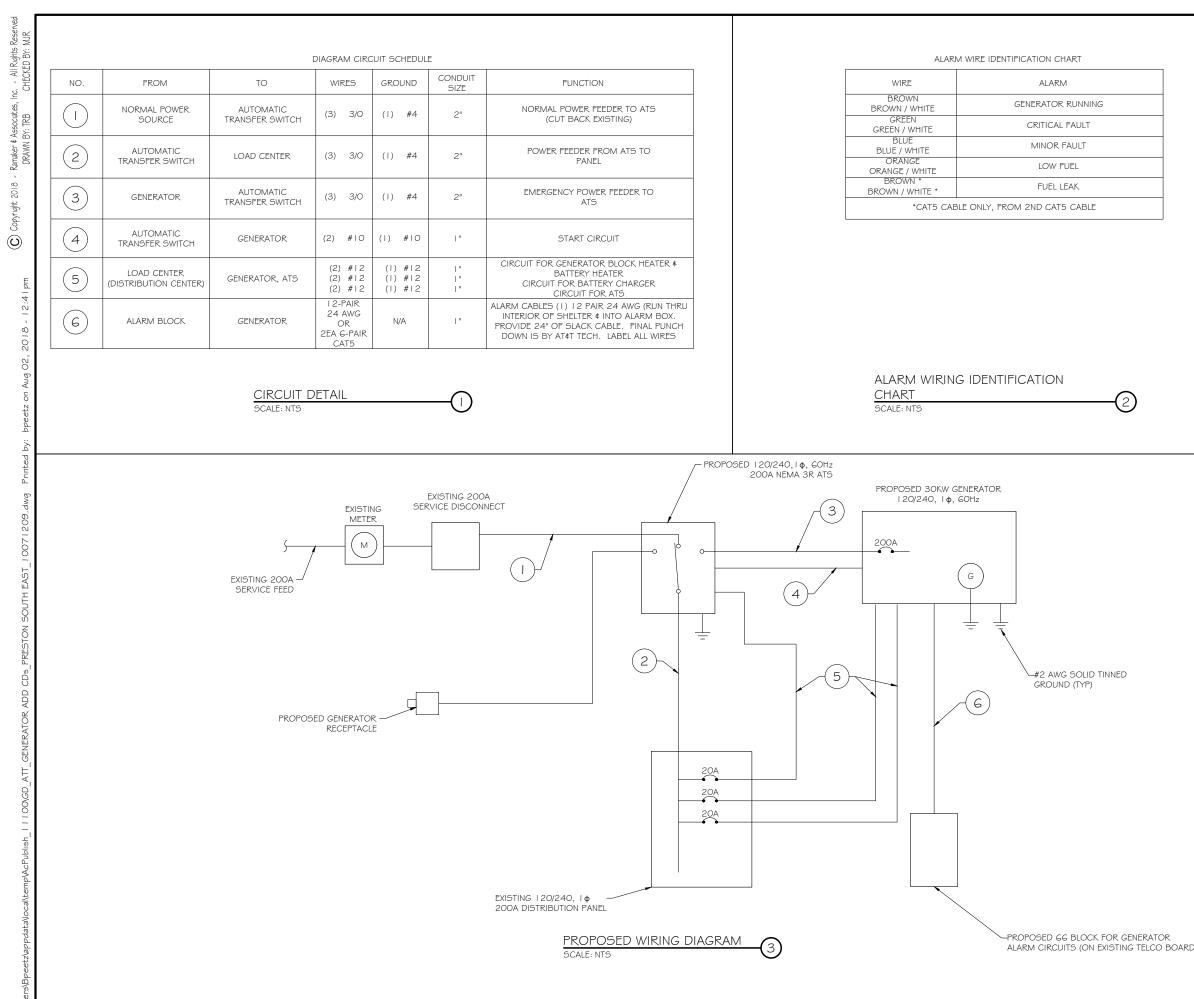
- UNDISTURBED SOIL

COMPACTED BACKFILL (SUITABLE ON SITE MATERIAL)

6" WARNING TAPE

ELECTRICAL CONDUIT(S) WHERE APPLICABLE *





	RAMAKER & ASSOCIATES, INC. LOOK EMPLOYEE-OWNED S5 Community Dr, Sauk City, WI 53583 608-643-4100 www.Ramaker.com Sauk City, WI Sauk City, WI Willmar, MN Hoodcliff Lake, NJ Willmar, MN Bayamon, PR PREPARED FOR: Computer States of the second
	CONSULTANT: GENERAL DYNAMICS Information Technology, Inc. GENERAL DYNAMICS 661 MOORE RD STE 110 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 Leensed Professional Engineer under the laws of the State of <u>Connecticut</u> .
	A 8/2/18 REVISION A MARK DATE DESCRIPTION ISSUE FINAL DATE 08/02/2018
	PROJECT TITLE: PRESTON SOUTH EAST FA ID # 10071209 PROJECT INFORMATION: 389 ROUTE 2 PRESTON PRESTON, CT 06365 SHEET TITLE:
)	WIRING DETAILS SCALE: NONE ROJECT 39938

EXISTING PANEL SCHEDULE INFORMATION WAS NOT AVAILABLE AT THE TIME

SCOPE OF WORK REQUIRES (3) PROPOSED SINGLE POLE, 20A BREAKERS, ONE EACH FOR CALLOUT NUMBER 5 ON DETAILS 1/E-1 AND 3/E-1. UTILIZE EMPTY OR SPARE SPACES ON EXISTING PANELBOARD IF POSSIBLE.

IF SUFFICIENT SPACES ARE NOT PRESENT IN MAIN PANEL, PROVIDE NEW SUBPANEL FED WITH NEW TWO-POLE, I OOA BREAKER IN MAIN PANELBOARD. RELOCATE EXISTING CIRCUITS TO SUBPANEL WHERE REQUIRED. SQUARE D

*CONTRACTOR TO UTILIZE NEXT AVAILABLE IN

SEQUENCE SINGLE BREAKER POSITION FOR

GENERATOR, BATTERY CHARGER, BATTERY HEATER

AND BLOCK HEATER

QO LOAD CENTER RECOMMENDED AS NECESSARY.

EXISTING PANEL SCHEDULE

OF DRAWING CREATION

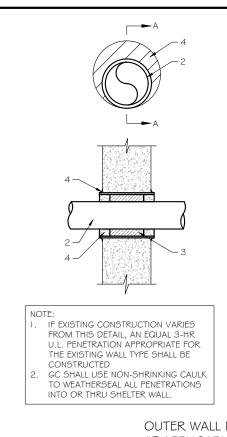
SCALE: NTS

NOTE

CONTRACTOR TO LABEL WIRES WITH P-TOUCH OR

SIMILAR LABELS ONLY. ABSOLUTELY NO

HANDWRITTEN LABELS.



U.L. SYSTEM NO. C-AJ-1150 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.
- ON MONOT ACTIONS : ONE METALLIC PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE ANNULAR SPACE SHALL BE 2. 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 3. 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 4 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 CPGOIS OR CPGO4 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)

SCALE: NTS

R Type GR CABLE TAP TO TOP OF GROUND

ROD

EO 1

HORIZONTAL CABLE TAP TO

VERTICAL STEEL SURFACE OR THE SIDE OF

HORIZONTAL PIPE

Type VN



Type GY THROUGH CABLE TO SIDE OF GROUND ROD

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



CABLE TAP DOWN AT 45°TO VERTICAL

STEEL SURFACE OR SIDE OF

HORIZONTAL OR

VERTICAL PIPE.





THROUGH VERTICAL CABLE TO VERTICAL STEEL SURFACE OR TO THE SIDE OF EITHER HORIZONTAL OR VERTICAL PIPE

vpe GR CABLE TAP TO TOP OF

GROUND ROD



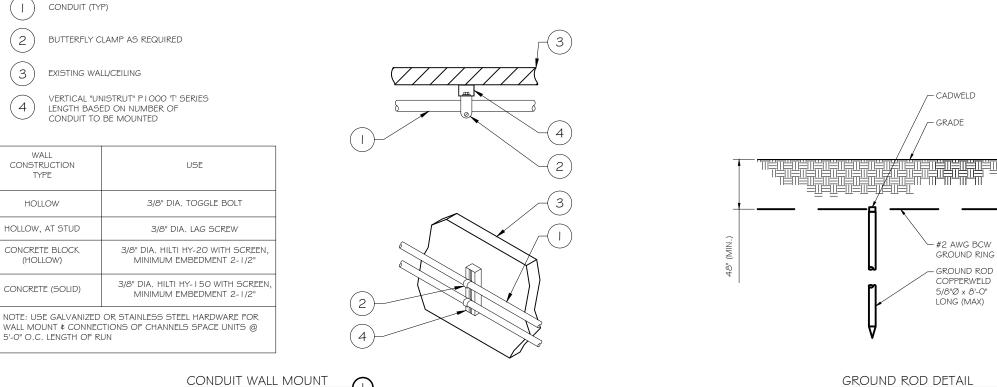
CADWELD DETAILS SCALE: NTS





ORIZONTAL RUN AND TAP CABLES





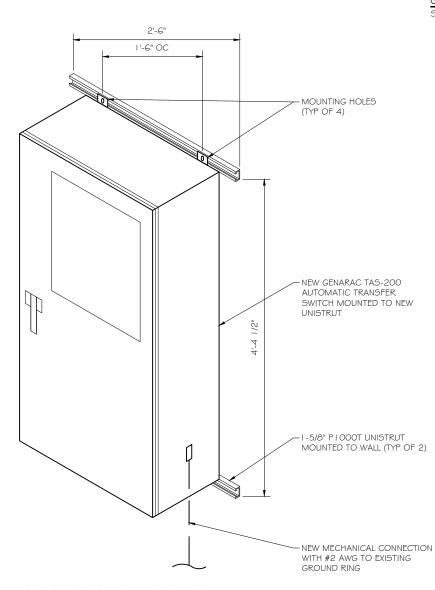
GROUND ROD DETAIL SCALE: NTS

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"

SCALE: NTS

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



INTERSECT ATS MOUNTING DETAIL -(3) SCALE: NTS

- NOTE: GROUND RODS MAY BE: - COPPER CLAD STEEL SOLID COPPER 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 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) 6 PROVIDE (1) GROUND LEAD TO EACH SIDE OF THE GENERATOR

2)



I nereby 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> .
Thereby certary that this pain, 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> .
Jane Reserver 8/02/2018 Signature: Date:
A 8/2/18 REVISION A
MARK DATE DESCRIPTION
PRESTON SOUTH EAST FA ID # 10071209
FROJECT INFORMATION: 389 ROUTE 2 PRESTON PRESTON, CT 06365
ATS, CONDUIT & GROUND ROD DETAILS
SCALE: NONE
PROJECT 39938
SHEET E-3

SDC20 | 2.5L | 20 kW - AC **INDUSTRIAL DIESEL GENERATOR SET**

EPA Certified Stationary Emergency

Standby Power Rating 20 kW AC, 60 Hz



Codes and Standards

Generac products are designed to the following standards:







Model G007098-0 (Steel)



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.

SDC20 | 2.5L | 20 kW - AC

INDUSTRIAL DIESEL GENERATOR SET EPA Certified Stationary Emergency

STANDARD FEATURES

ENGINE SYSTEM

- Oil Drain Extension
- · Air Cleaner with Service Indicator Fan Guard
- Stainless Steel Flexible Exhaust Connection
- Exhaust Silencer with Drain
- Factory Filled Oil & Coolant
- Fuel System
- Primary Fuel Filter

Cooling System

- 120V AC Coolant Heater
- Closed Coolant Recovery System
- UV/Ozone Resistant Hoses
- Factory-Installed Radiator
- 50/50 Ethylene Glycol Antifreeze
- Radiator Drain Extension

Electrical System

- Battery Charging Alternator
- AGM Spill Proof Battery Battery Cables
- Sealed/Rubber-Booted Engine Electrical Connec-
- tions
- Solenoid Activated Starter Motor
- Output Circuit Breaker

CONTROL SYSTEM

- Digital H Control Panel Dual 4x20 Display
- Programmable Crank Limiter
- 7-Day Programmable Exerciser
- Special Applications Programmable PLC RS-232/485 Communications
- All-Phase Sensing Voltage Regulator
- Full System Status
- 2-Wire Start Compatible
- Power Output (kW)
- Power Factor
- kW Hours, Total & Last Run
- Real/Reactive/Apparent Power
- All Phase AC Voltage

All Phase Currents

- Oil Pressure Coolant Temperature
- Coolant Level
- Engine Speed
- Battery Voltage

MODEL OPTIONS

CONTROL SYSTEM

- $\circ~$ 21 Light Annunciator- Shipped Loose Kit and Field
- External E-Stop-Shipped Loose Kit and Field
- Installed

- ENCLOSURE
- Aluminum Enclosure ○ Extreme Cold Weather Kit - Shipped Loose Kit and Field Installed
- TANKS Installed

GENERAC 20KW GENERATOR SPECIFICATIONS SCALE: NTS



Class H Insulation Material Vented Rotor

- 2/3 Pitch
- Skewed Stator

ALTERNATOR SYSTEM

- Amortisseur Winding Brushless Excitation
- Sealed Bearings
- Rotor Dynamically Spin Balanced
- Full Load Capacity Alternator · Protective Thermal Shutdown

Silencer Heat Shield

Frequency

Display

Alarms

GENERATOR SET

High Heat Wrapped Exhaust Piping

- Single Side Service
- Internal Genset Vibration Isolators Separation of Circuits- High/Low Voltage

- Silencer Enclosed Within Generator
- 5 Year Extended Warranty
- Extended Factory Testing
- 12 Gallon System Spill Containment • 2.5 Gallon Fuel Fill Spill Containment

• Date/Time Fault History (Event Log)

Isochronous Governor Control

Waterproof/Sealed Connectors

· Audible Alarms and Shutdowns

• Not in Auto (Flashing Light)

E-Stop (Red Mushroom-Type)

Auto/Off/Manual Switch

- Conditions
- Customizable Alarms, Warnings, and Events
- Modbus protocol Predictive Maintenance Algorithm

• NFPA110 Level I and II (Programmable)

- Sealed Boards
- Password Parameter Adjustment Protection

· Alarm Information Automatically Comes Up On the

 Single Point Ground Connections • 15 Channel Data Logging • 0.2 msec High Speed Data Logging



Model G007098-0 (Steel)

ENCLOSURE

- · Serviceable Items Accessible Though Lift-Off Door • High Performance Sound-Absorbing Material Gasketed Door Stamped Air-Intake Louvers
- Single Door Latch Lockable with Key & Padlock • Rhino Coat[™] - Textured Polyester Powder Coat • 150 MPH Wind Rating
- 36" Snow Rating

FUEL TANK

- UL 142 Compliant Double Wall Construction • Factory Pressure Tested (5 psi) Rupture Basin Alarm Fuel Level Gauge and Sender Check Valve in Supply Line • Rhino Coat[™] - Textured Polyester Powder Coat Stainless Steel Hardware Integrated Fork Pockets
- Generator Run- Dry Contact
- Major Alarm- Dry Contact
- Minor Alarm- Dry Contact
- Low Fuel Alarm- Dry Contact
- Rupture Basin Alarm- Dry Contact
- Alarms & Warnings Time and Date Stamped
- Alarms & Warnings for Transient and Steady State
- Snap Shots of Key Operation Parameters During Alarms & Warnings
- Alarms and Warnings Spelled Out (No Alarm Codes)

External Fuel Vent- Shipped Loose Kit and Field

	RAMAKER & ASSOCIATES, INC. L00% EMPLOYEE-OWNED 855 Community Dr, Sauk City, WI 53583 608-643-4100 www.Ramaker.com Sauk City, WI • Willmar, MN Woodcliff Lake, NJ • Bayamon, PR
	PREPARED FOR: at&t Mobility
	CONSULTANT: GENERAL DYNAMICS Information Technology, Inc. GENERAL DYNAMICS 661 MOORE RD STE 110 KING OF PRUSSIA, PA 19406
	Certification 4 Seal: 1 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> .
	Jane Returnen <u>8/02/2018</u> Date:
SPEC SHEET	A 8/2/18 REVISION A MARK DATE DESCRIPTION ISSUE PHASE FINAL DATE ISSUED 08/02/2018 PROJECT TITLE:
2 of 5	PRESTON SOUTH EAST FA ID # 10071209 PROJECT INFORMATION: 389 ROUTE 2 PRESTON PRESTON, CT 06365
	SHEET TITLE: GENERAC 20KW GENERATOR SPECIFICATIONS SCALE: NONE
	PROJECT 39938 SHEET E-4

SDC20 | 2.5L | 20 kW - AC INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General

Make	Mitsubishi	
EPA Emissions Compliance	Interim Tier 4	
Cylinder #	4	
Туре	In-Line	
Displacement - L (Cu In)	2.5 (158)	
Bore - mm (in)	88 (3.5)	
Stroke - mm (in)	103 (4.1)	
Compression Ratio	22:1	
Intake Air Method	Naturally Aspirated	
Engine Governing		
Governor	Electronic Isochronous	
Frequency Regulation (Steady State)	± 0.25%	

Lubrication System

Oil Pump Type	Trochoid Gear Pump
Oil Filter Type	Filtering Paper, Full Flow
Crankcase Capacity - L (qts)	6.5 (6.9)

GENERAC[®] INDUSTRIAL

Forced Circulation

Centrifugal Pump

Ultra Low Sulfur Diesel #2

Pusher

2100 431.8 (17)

1000

120

ASTM

Bosch

Diesel

6.6 (0.26)

12 VDC

12V-50A

650 CCA

12 VDC

Negative

35

Engine Driven Gear

6

Model G007098-0 (Steel)

Cooling System

Cooling System Type Water Pump Type

Fan Type

Fan Speed (rpm)

Fuel System

Fuel Specifications

Fuel Filtering (microns)

Fuel Inject Pump Make

Fuel Supply Line - mm (in.)

Engine Electrical System

Fuel Type

Injector Type

Engine Type

System Voltage Battery Charger Alternator

Battery Size

Battery Group

Battery Voltage

Ground Polarity

Fan Diameter - mm (in) Coolant Heater Wattage

Coolant Heater Voltage

SDC20 | 2.5L | 20 kW - AC

INDUSTRIAL DIESEL GENERATOR SET EPA Certified Stationary Emergency GENE

Model G007

Amps: 83

OPERATING DATA

POWER RATINGS

Single-Phase 120/240 VAC @1.0pf	20 kW	
Circuit Breaker Size	100A	

FUEL CONSUMPTION RATES*

	Diesel - gph (lph)		
	Percent Load	Standby	
	25%	0.74 (2.80)	
_	50%	0.99 (3.75)	
_	75%	1.41 (5.30)	
_	100%	1.90 (7.19)	

* Fuel supply installation must accommodate fuel consumption rates at 100% load.

COOLING

		Standby
Coolant Flow per Minute	gpm (lpm)	11.9 (45
Coolant System Capacity	gal (L)	3.5 (13.2
Heat Rejection to Coolant	BTU/hr	238,200
Inlet Air	cfm (m ³ /min)	2365 (67
Max. Operating Ambient Temperature (Before Derate)	°F (°C)	77° (25°
Maximum Radiator Backpressure	in H ₂ 0	0.50

COMBUSTION AIR REQUIREMENTS

				Standby
			Flow at Rated Power cfm (m ³ /min)	88 (2.49)
ENGINE			EXHAUS	т
		Standby		
Rated Engine Speed	rpm	1800	Exhaust F	Flow (Rated Output)
Horsepower at Rated kW**	hp	33.5	Max. Bac	kpressure (Post Silencer)
Piston Speed	ft/min	1220.47	Exhaust	Temp (Rated Output - Post Silencer)
BMEP	psi	96.5	_	

ALTERNATOR SPECIFICATIONS

Standard Model	Mecc Alte ECP 28-2L/4	
Poles	4	
Field Type	Revolving	
Insulation Class - Rotor	Н	
Insulation Class - Stator	Н	
Total Harmonic Distortion	<5%	
Telephone Interference Factor (TIF)	<45	
Standard Excitation	Brushless	

Bearings Dual Sealed Coupling Belt, Pulley Load Capacity - Standby 100% Prototype Short Circuit Test Yes Voltage Regulator Type Digital Number of Sensed Phases All Regulation Accuracy (Steady State) ±0.5%

SPEC SHEE

** Refer to "Emissions Data Sheet" for maximum bHP for EPA and SCAQMD permitting purposes.

Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions. Please consult a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, t

RATING DEFINITIONS

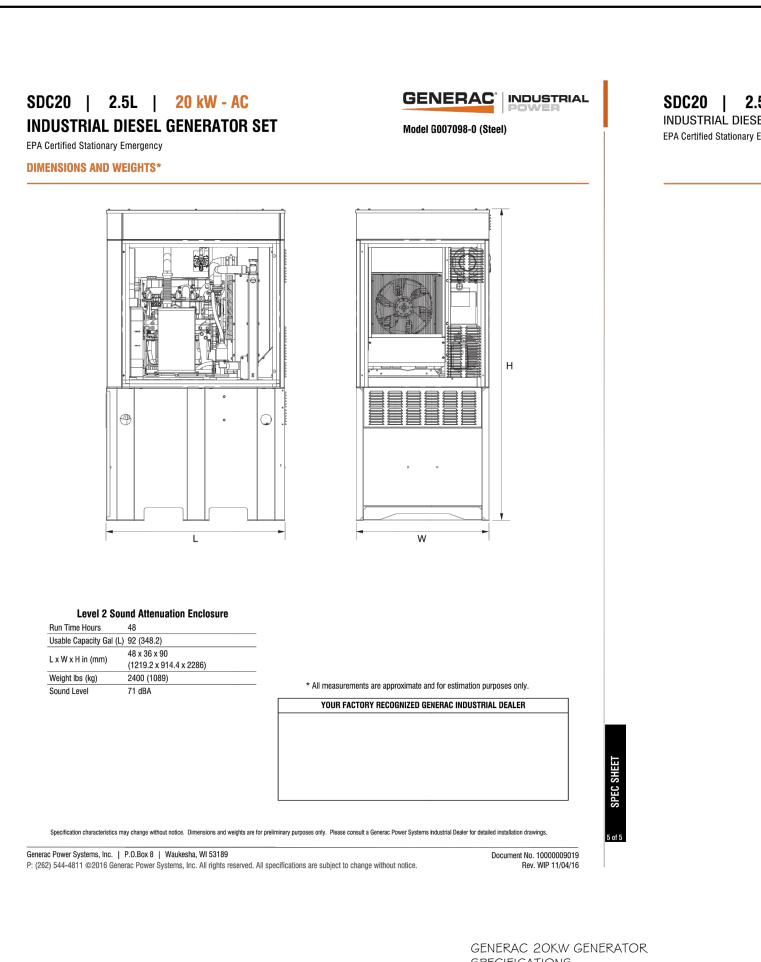
Standby - Applicable for a varying emergency load for the duration of a utility power outage with no overload capability.

GENERAC 20KW GENERATOR SPECIFICATIONS SCALE: NTS



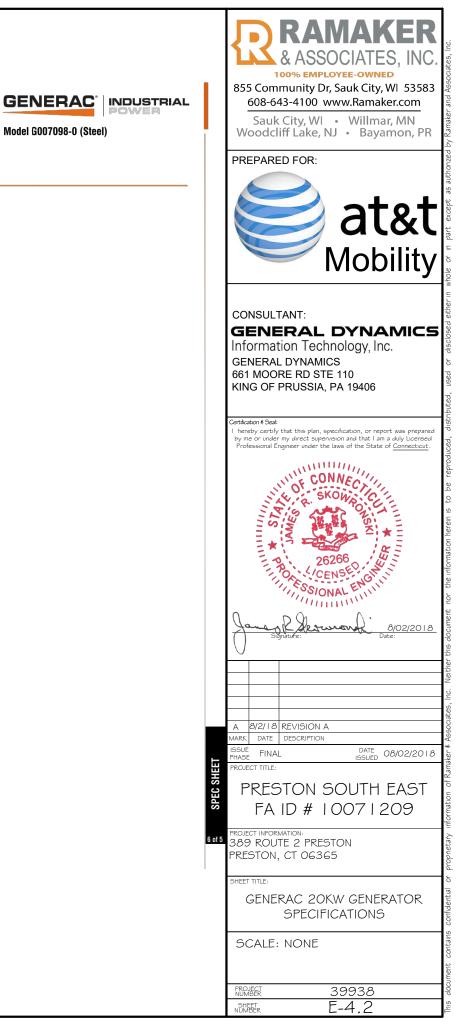
7098-0 (Steel)	RAMAKER & ASSOCIATES, INC. LOO% EMPLOYEE-OWNED 855 Community Dr, Sauk City, WI 53583 608-643-4100 www.Ramaker.com Sauk City, WI • Willmar, MN Woodcliff Lake, NJ • Willmar, MN Woodcliff Lake, NJ • Bayamon, PR PREPARED FOR: PREPARED FOR: at&t Mobility
	CONSULTANT: GENERAL DYNAMICS Information Technology, Inc. GENERAL DYNAMICS 661 MOORE RD STE 110 KING OF PRUSSIA, PA 19406
by 45) 3.2) 00 67) 5°) 0	Certification 4 Seal: 1. 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> .
Standby cfm (m³/min) 193 (328) inHg (kPa) 1.38 (4.67) °F (°C) 928 (497.7)	Jane Returned B/02/2018 Signature: Date:
	A 8/2/18 REVISION A MARK DATE DESCRIPTION 155UE FINAL DATE 08/02/2018
	PROJECT TITLE: PRESTON SOUTH EAST FA ID # 1007 1209 PROJECT INFORMATION: 389 POLITE 2 PRESTON
BS5514, ISO8528 and DIN6271 standards.	
	SHEET TITLE: GENERAC 20KW GENERATOR SPECIFICATIONS SCALE: NONE

SHEET NUMBER E-4.



SDC20 | 2.5L | 20 kW - AC INDUSTRIAL DIESEL GENERATOR SET EPA Certified Stationary Emergency

SPECIFICATIONS SCALE: NTS



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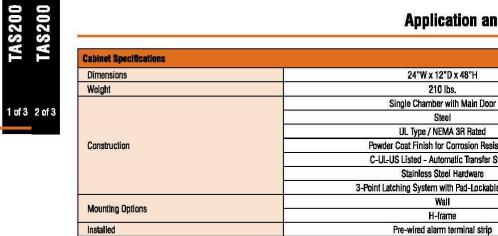


200A



ER	200
TAS200	TAS
nsfer Switch	

Automatic '	Transfer	Switch	
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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
Dreaker	Eaton 200 arrip 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
Alarm leiminal boalu	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
200A Camlock Generator Connection	Single-Phase: Black L1, Red L2, White-Neutral, Green-Grou
	3-Phase: Black L1, Red L2, Blue L3, White-Neutral, Green-Gr
	Uses 4 CH E1016 Male Connectors
	Mating Connector – CH E1016 Female

GENERAC	ATS	SPECIFICATIONS	\bigcirc
SCALE: NTS			∇



Flexibility for multiple application installations

Multiple generator support with 3 source panel

Designed with a 6 inch touch screen controller for improved user interface

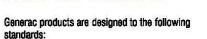
Camlock functionality for mobile generator sources

Features

- STEEL CONSTRUCTION
- NEMA 3R ENCLOSURE WITH HINGED "PADLOCKING" DOORS
- STAINLESS STEEL HARDWARE
- CAMLOCK "QUICK CONNECT" CAPABILITY
- 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





UL1008, UL508, UL50, CSA C22.2 No. 178



NEC 700, 701 and 702

NEMA 250

Image used for Elustration purposes only.

Codes and Standards

Application and Engineering Data

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