



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,

AT&T Mobility currently maintains a wireless telecommunications facility at the above referenced address. The monopole and AT&T's shelter are located in a fenced area. The shelter houses AT&T's equipment. AT&T currently does not maintain a generator at this cell site.

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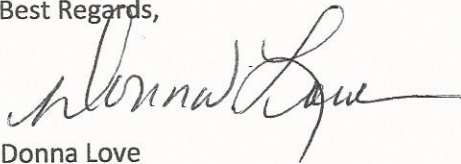
AT&T's proposed Wireless Modifications Constitute An "Exempt Modification"

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

Best Regards,



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 Statutes 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 Kulesza
Planning and Zoning Commission Chairman

cc: ZEO
First Selectman
Building Inspector



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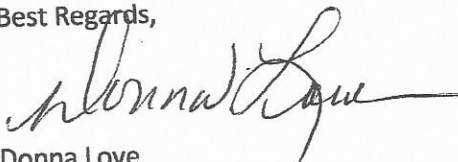
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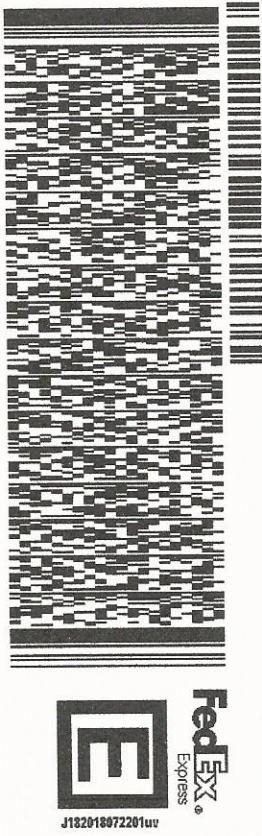
ORIGIN ID:SYRA (315) 480-5539
 DONNA LOYE
 GENERAL DYNAMICS
 8053 PRINCESS PATH
 LIVERPOOL, NY 13090
 UNITED STATES US

SHIP DATE: 15AUG18
 ACTWGT: 1.00 LB
 CAD: 105486753/IN/ET4040

BILL SENDER

TO ROBERT CONGDON, FIRST SELECTMAN
 TOWN OF PRESTON
 389 ROUTE 2

PREST CT 06365
 (860) 887-5581
 INV:
 PO:
 REF: 507406-1451 FRGT OUT H1834
 DEPT:



TRK# 77229 8595 6834
 0201
 THU - 16 AUG 4:30P
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 06365

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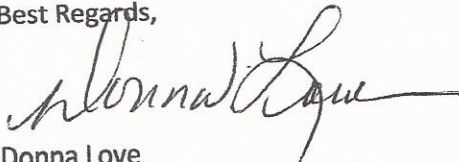
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LIVERPOOL, NY 13090
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CAD: 105486753MINET14040
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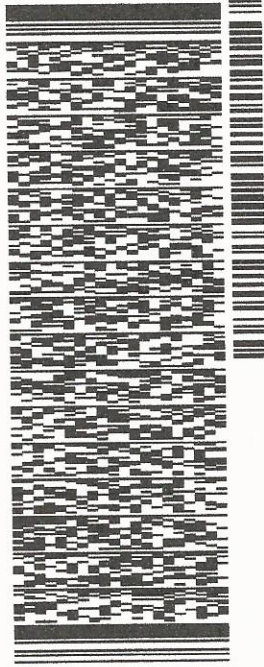
TO KATHY B. WARZECHA, TOWN PLANNER
TOWN OF PRESTON
389 ROUTE 2

PREST CT 06365

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REF: 507406-1451 FRGT OUT H1834

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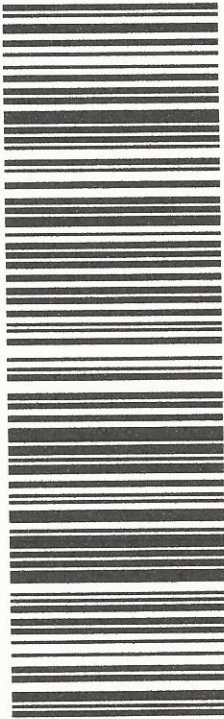
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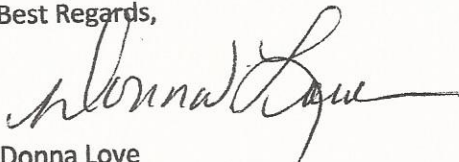
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GENERAL DYNAMICS
8053 PRINCESS PATH
LIVERPOOL, NY 13090
UNITED STATES US

SHIP DATE: 15AUG18
ACTWGT: 1.00 LB
CAD: 105486753/IN/ET4040

BILL SENDER

TO KATHY LACOMBE, BUILDING OFFICIAL
TOWN OF PRESTON
389 ROUTE 2

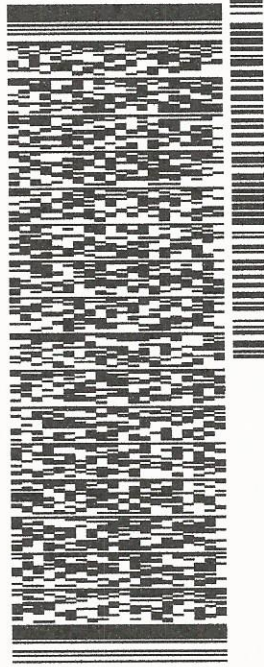
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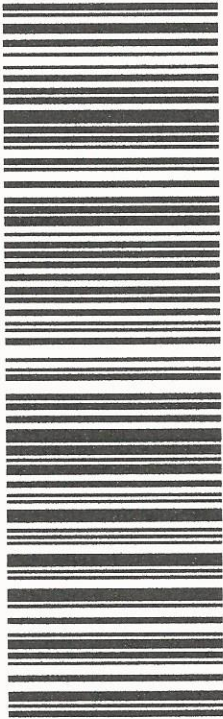
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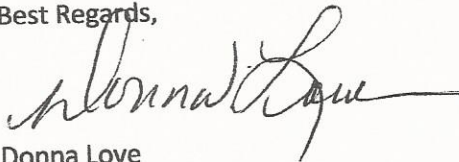
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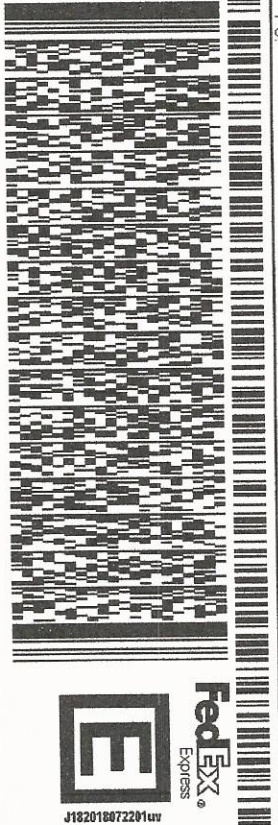
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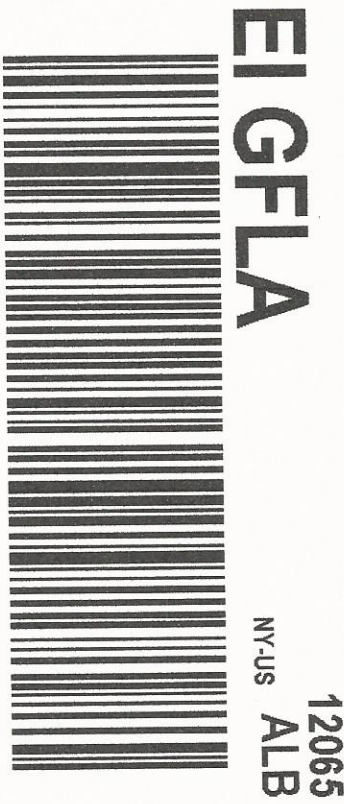
TO PAUL PEDICONE
CROWN CASTLE
3 CORPORATE PARK DRIVE, SUITE 103

552J1B3309/DCA5

CLIFTON PARK NY 12065
(518) 373-3508
REF: 507406-1451 FRGT OUT H1834
DEPT:
PO:



TRK# 77229 8602 1132
0201
THU - 16 AUG 3:00P
STANDARD OVERNIGHT



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

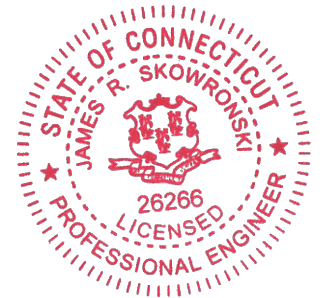
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608-643-4100 www.Ramaker.com
Sauk City, WI • Willmar, MN
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PREPARED FOR:



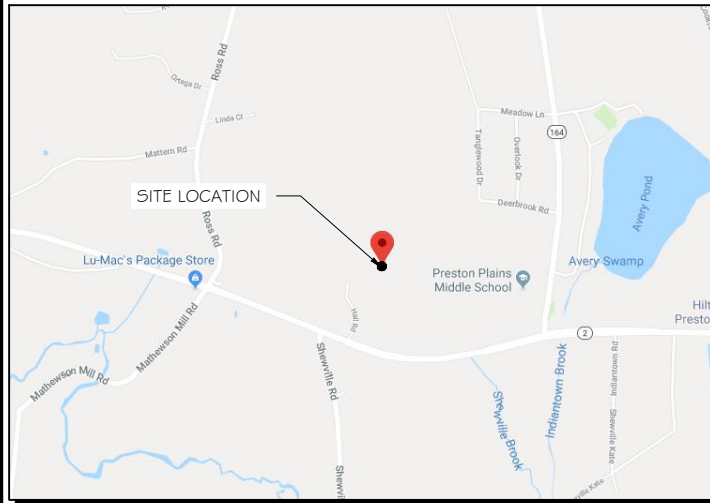
CONSULTANT:
GENERAL DYNAMICS
Information Technology, Inc.
GENERAL DYNAMICS
661 MOORE RD STE 110
KING OF PRUSSIA, PA 19406

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 Connecticut.



James R. Skowronski
Signature: _____ Date: 8/02/2018

VICINITY MAP



SCOPE OF WORK

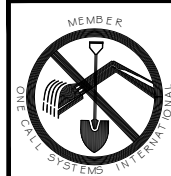
ADD STANDBY GENERATOR, ASSOCIATED CONCRETE PAD, AND UTILITY EQUIPMENT TO EXISTING AT&T EQUIPMENT AREA. THERE WILL BE NO CHANGE IN THE SIZE OR HEIGHT OF THE TOWER OR ANTENNAS.

DIRECTIONS:
UPDATED 12/22/06 JM CT-572 I PRESTON SOUTH EAST I-95N TO EXIT 75 I-395 TAKE THIS TO EXIT 79A SR 2A TO END MAKE LEFT ON RT 12 THEN RIGHT ON SR 2A TO RT 117 TO SR 2 FOLLOW SR 2 TO ADDRESS THIS SITE IS BEHIND A LIBRARY. LOOK FOR SIGN FOR LIBRARY ADDRESS: 389 ROUTE 2, PRESTON, CT 06365 ACCESS: GATE COMBO 2500 T-1 INFO NOKIA ET-141 HCG5 699152 UMTS-ON FIBER OUTDOOR CABINETS:GROUND LEVEL LTE RADIOS-ON TOWER

APPLICABLE BUILDING CODE & STANDARDS

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

- INTERNATIONAL BUILDING CODE 2009
- NATIONAL ELECTRIC CODE (NEEC)
- AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION
- TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-G, STRUCTURAL STANDARDS FOR STEEL TOWER AND ANTENNA SUPPORTING STRUCTURES
- TIA 607, COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS

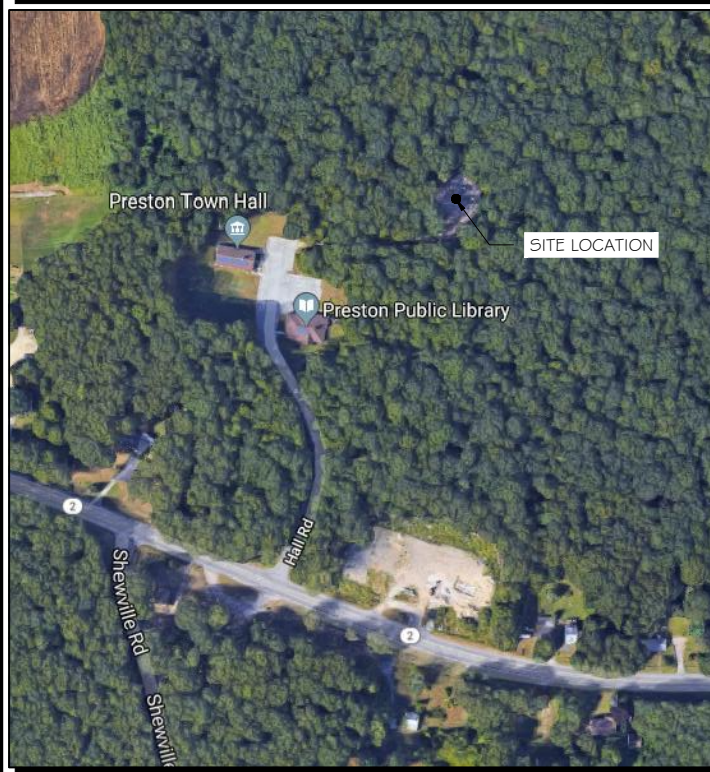


TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN CONNECTICUT

CALL BEFORE YOU DIG
811 OR 1-800-922-4455

CONNECTICUT PUBLIC ACT 87-71 REQUIRES MIN. 2 WORKING DAYS NOTICE BEFORE YOU EXCAVATE.

AERIAL VIEW OF SITE



PROJECT INFORMATION

PROJECT MANAGER:
JOE NAGLE
MARKET LEAD
GENERAL DYNAMICS WIRELESS SERVICES
661 MOORE RD STE 110
KING OF PRUSSIA, PA 19406
EMAIL: joseph.nagle@gdit.com

ENGINEER:
RAMAKER & ASSOCIATES, INC.
855 COMMUNITY DRIVE
SAUK CITY, WI 53583
PH.: (608) 643-4100
FAX: (608) 643-7999
CONTACT: MIKE REEVE
EMAIL: mreeve@ramaker.com

SITE DATA:
SITE NAME: PRESTON SOUTH EAST
SITE ID: 26059
FA NUMBER: 10071209

TOWER OWNER:
CROWN
ALBANY, NY
ANTHONY STEGAGNO - 518-373-3508

ADDRESS:
389 ROUTE 2 PRESTON
PRESTON, CT 06365

COUNTY: NEW LONDON

LAT.: 41.4902919° N
LONG.: 71.9915000° W

GROUND ELEVATION: 140 FT AMSL

APPLICANT INFORMATION:
AT&T MOBILITY
7150 STANDARD DR.
HANOVER, MD 21076

DO NOT SCALE DRAWINGS:
CONTRACTOR SHALL VERIFY ALL PLANS & EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO THE CLIENT IS STRICTLY PROHIBITED.

SHEET INDEX

GENERAL:
T-1 TITLE SHEET

NOTES:
N-1 GENERAL NOTES

SITE:
A-1 SITE PLAN & EQUIPMENT LAYOUT
S-1 FOUNDATION DETAILS

ELECTRICAL & GROUNDING:
E-1 WIRING DETAILS
E-2 PANEL AND PENETRATION DETAILS
E-3 ATS, CONDUIT & GROUND ROD DETAILS
E-4 GENERAC GENERATOR SPECIFICATIONS
E-4.1 GENERAC GENERATOR SPECIFICATIONS
E-4.2 GENERAC GENERATOR SPECIFICATIONS
E-5 GENERAC ATS SPECIFICATIONS

SIGNATURE BLOCK

AT&T MGR.	DATE
GENERAL DYNAMICS CONSTRUCTION MGR.	DATE
SITE ACQUISITION	DATE

MARK	DATE	DESCRIPTION
A	8/2/18	REVISION A
ISSUE PHASE	FINAL	DATE ISSUED 08/02/2018

PROJECT TITLE:
PRESTON SOUTH EAST
FA ID # 10071209

PROJECT INFORMATION:
389 ROUTE 2 PRESTON
PRESTON, CT 06365

SHEET TITLE:
TITLE SHEET

SCALE: NONE

PROJECT NUMBER: 39938
SHEET NUMBER: T-1

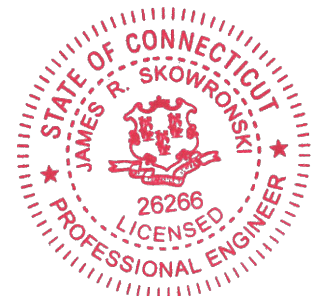


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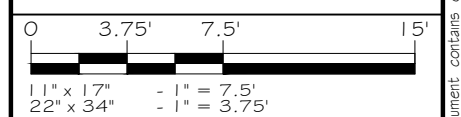
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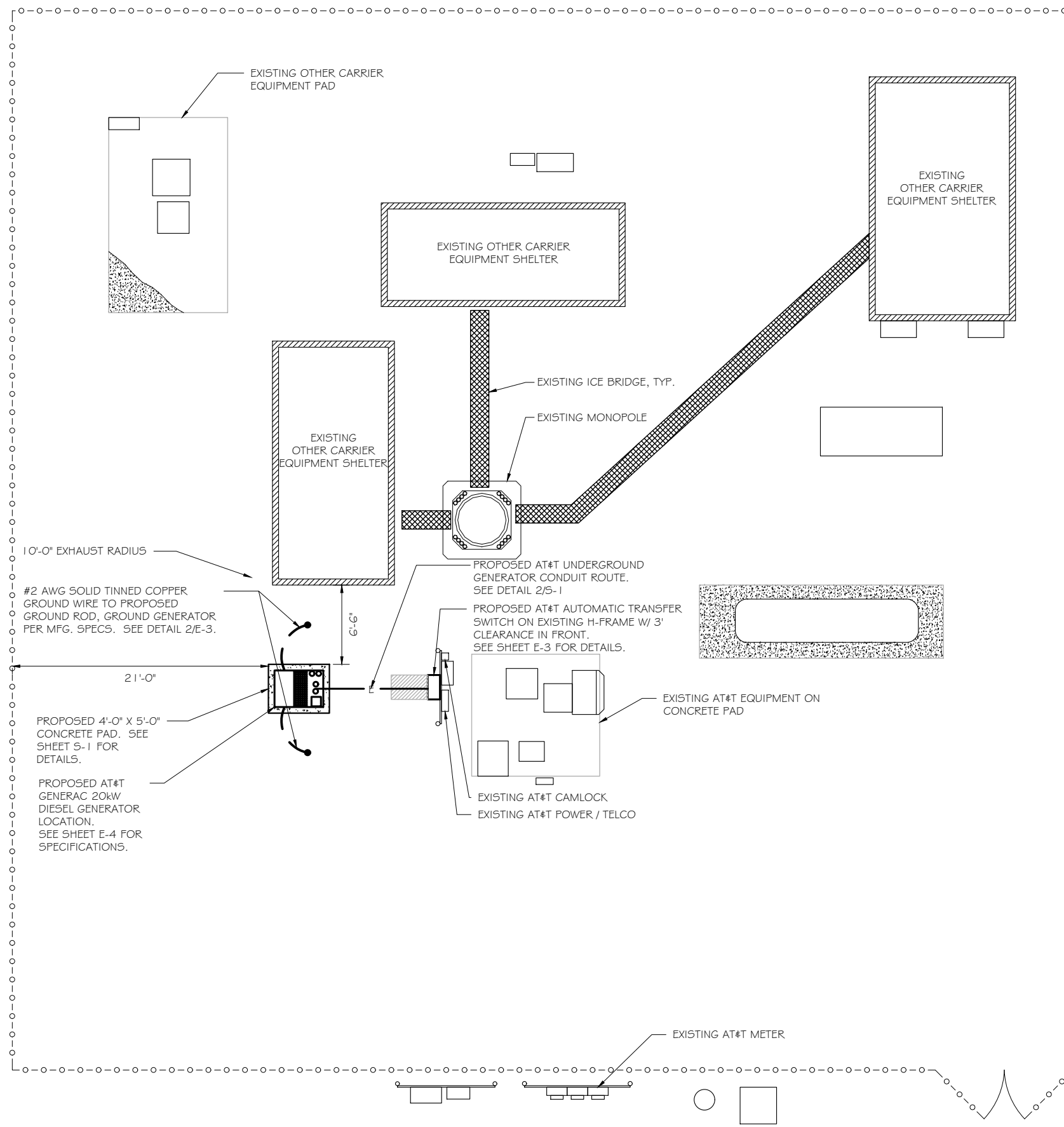
SHEET TITLE:
SITE PLAN & EQUIPMENT LAYOUT



PROJECT NUMBER: 39938
 SHEET NUMBER: A-1

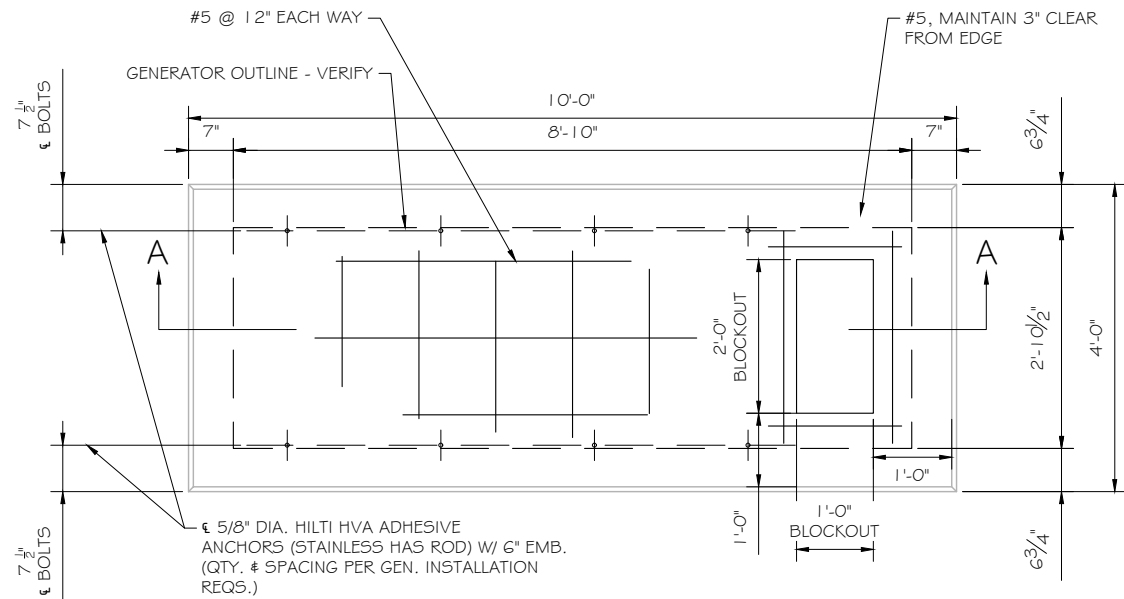
SCOPE OF WORK DETAILS

- 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 CONSTRUCTION
 - CONTRACTOR SHALL RESTORE & REPAIR ANY DAMAGED AREAS 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 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 1" 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 1" ALARM CONDUIT & CABLING PROVIDED & INSTALLED 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.

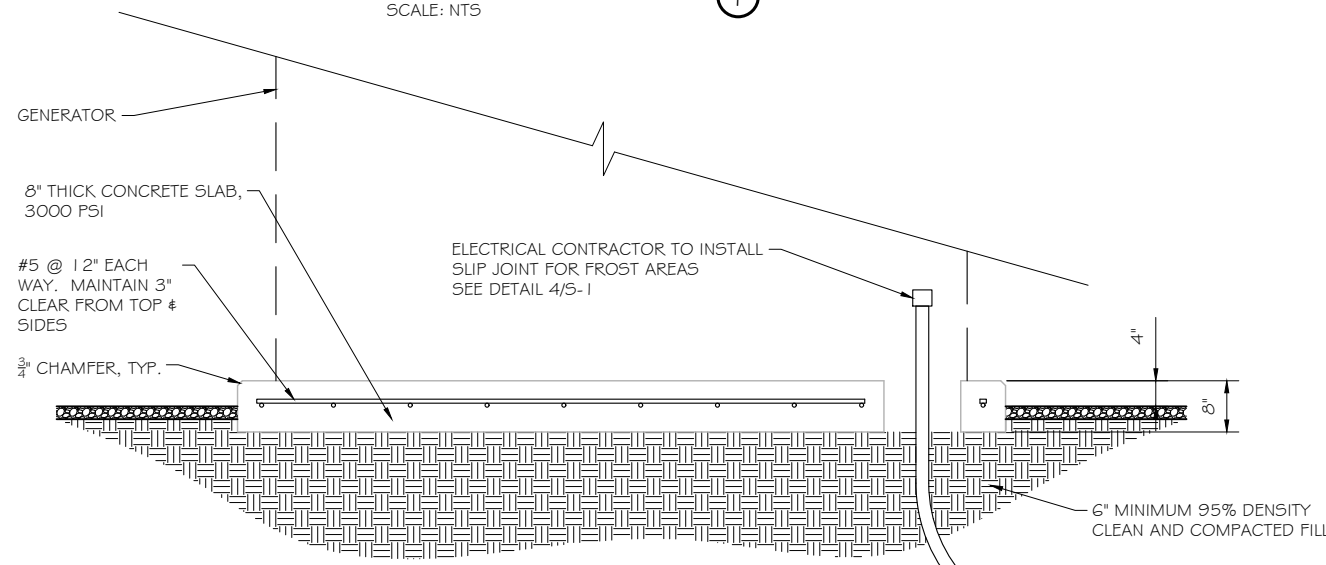


SITE PLAN
 SCALE: 1" = 7'-6"

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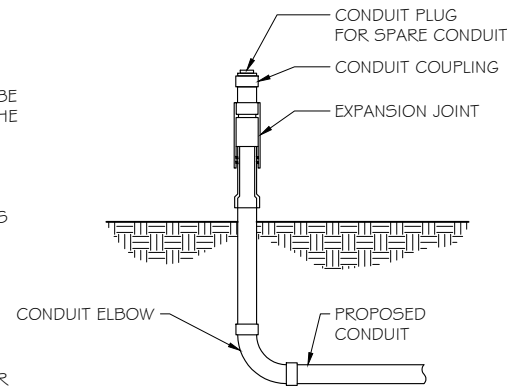
FOUNDATION PLAN
 SCALE: NTS



SECTION A-A
 SCALE: NTS

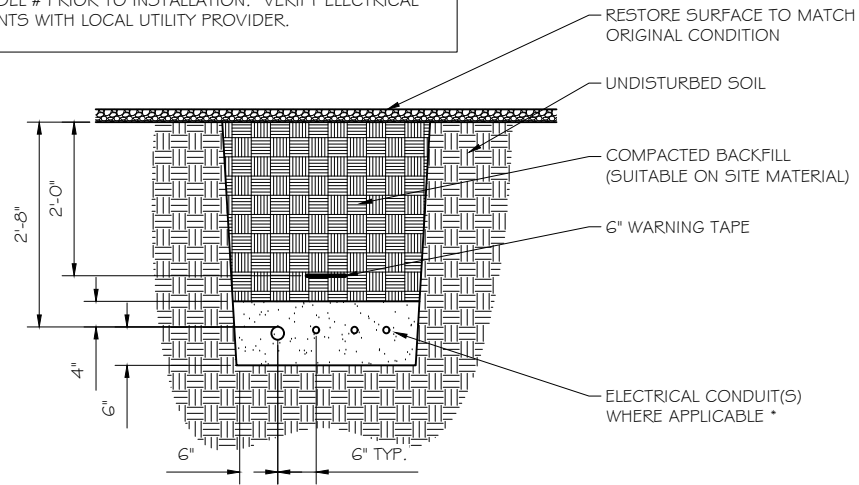
DOUBLE WALL FUEL TANK BASE SPECIFICATION

REF: ATT 30KW GENERATOR PACKAGE
 UL REGISTRATION NUMBER: MH18459
 U.L. 142 DOUBLE WALL FUEL TANK BASE SPECIFICATION
 FUEL TANK BASE CONSTRUCTION:
 • BE CONSTRUCTED IN ACCORDANCE WITH UNDERWRITERS LABORATORIES STANDARD UL-142. BE CONSTRUCTED IN ACCORDANCE WITH FLAMMABLE & COMBUSTIBLE LIQUIDS CODE, NFPA 30; THE STANDARD FOR INSTALLATION & USE OF STATIONARY COMBUSTIBLE ENGINE & GAS TURBINES, NFPA 37; AND THE STANDARD FOR EMERGENCY & STANDBY POWER SYSTEMS, NFPA 110.
 • ANCHORS MINIMUM (4) @ 5/8" FOR GEN-SET MOUNTING
 SUB BASE TANK TESTING: PRIMARY TANK & SECONDARY CONTAINMENT BASIN SECTIONS SHALL BE PRESSURIZED AT 3-5 PSF AND LEAK-CHECKED TO ENSURE INTEGRITY OF SUB BASE WELD SEAMS PER UL-142 STANDARDS
 FUEL FILL: 5 GALLON SPILL CONTAINMENT WITH ALARM
 • 40% REMAINING FOR ALARM
 • 20% REMAINING FOR SHUT-DOWN
 FACTORY PRE-SET AT 95% FULL FOR ALARM
 FUEL CONTAINMENT BASIN: SUB BASE TANK SHALL INCLUDE A WELDED STEEL CONTAINMENT BASIN, SIZED AT A MINIMUM OF 110% OF THE TANK CAPACITY TO PREVENT ESCAPE OF FUEL INTO THE ENVIRONMENT IN THE EVENT OF A TANK RUPTURE. A FUEL CONTAINMENT BASIN LEAK DETECTOR SWITCH SHALL BE PROVIDED.



SLIPJOINT DETAIL
 SCALE: NTS

NOTE:
 VERIFY WIRE AND CONDUIT QUANTITY & SIZES WITH GENERATOR MAKE & MODEL # PRIOR TO INSTALLATION. VERIFY ELECTRICAL REQUIREMENTS WITH LOCAL UTILITY PROVIDER.



* SEPARATION DIMENSION TO BE VERIFIED WITH LOCAL UTILITY COMPANY REQUIREMENTS

- NOTES:
 1. PROVIDE PVC CONDUIT BELOW GRADE EXCEPT AS NOTED BELOW.
 2. PROVIDE RGS CONDUIT AND ELBOWS AT STUB UP LOCATIONS (I.E. SERVICE POLE, BTS EQUIPMENT, ETC.)
 3. INSTALL UTILITY PULLBOXES PER NEC.

UTILITY CONDUIT TRENCH
 SCALE: NTS

STRUCTURAL GENERAL NOTES

- 1.0 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 WITH THE WORK.
- 1.3 DO NOT SCALE DRAWINGS
- 1.4 VERIFY ALL EQUIPMENT MOUNTING DIMENSIONS PER MANUFACTURER DRAWINGS
- 1.5 DESIGN 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
- 2.0 FOR DESIGN & ANALYSIS OF THE FOUNDATION, THE MINIMUM NET SOIL BEARING CAPACITY SHALL BE ASSUMED TO BE 2000 PSF.
- 3.0 CONCRETE
- 3.1 MEET OR EXCEED THE FOLLOWING CODES & STANDARDS:

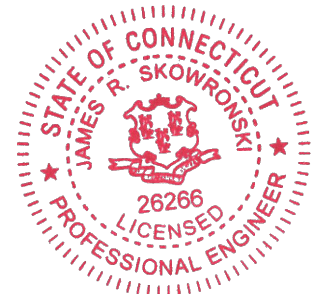
DESIGN	: ACI 318-11
CONSTRUCTION	: ACI 301
DETAILING	: CRSI MANUAL OF STANDARD PRACTICE
REINF. STEEL	: ASTM A 615 GRADE 60, DEFORMED
MIXING	: ASTM C 94. READY MIX CONCRETE
AIR ENTRAINMENT	: ACI 318 AND ASTM C-260
AGGREGATE	: ASTM C 33 AND C 330 (FOR LIGHT WEIGHT)
- 3.2 CONCRETE STRENGTH AT 28 DAYS SHALL BE 4000 PSI MINIMUM
- 3.3 DO NOT FIELD BEND OR WELD TO GRADE 60 REINFORCED STEEL
- 3.4 PROVIDE AIR ENTRAINMENT CONCRETE WITH AIR CONTENT OF 5 TO 7% FOR ALL CONCRETE EXPOSED TO EARTH OR WEATHER.
- 3.5 MAXIMUM AGGREGATE SIZE: 3/4"
- 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 FROM 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.

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Signature: *James R. Skowronski* Date: 8/02/2018

MARK	DATE	REVISION DESCRIPTION
A	8/2/18	REVISION A

ISSUE PHASE: FINAL DATE ISSUED: 08/02/2018

PROJECT TITLE:
PRESTON SOUTH EAST
FA ID # 10071209

PROJECT INFORMATION:
 389 ROUTE 2 PRESTON
 PRESTON, CT 06365

SHEET TITLE:
FOUNDATION DETAILS

SCALE: NONE

PROJECT NUMBER: 39938
 SHEET NUMBER: S-1

DIAGRAM CIRCUIT SCHEDULE

NO.	FROM	TO	WIRES	GROUND	CONDUIT SIZE	FUNCTION
1	NORMAL POWER SOURCE	AUTOMATIC TRANSFER SWITCH	(3) 3/0	(1) #4	2"	NORMAL POWER FEEDER TO ATS (CUT BACK EXISTING)
2	AUTOMATIC TRANSFER SWITCH	LOAD CENTER	(3) 3/0	(1) #4	2"	POWER FEEDER FROM ATS TO PANEL
3	GENERATOR	AUTOMATIC TRANSFER SWITCH	(3) 3/0	(1) #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	(1) #12 (1) #12 (1) #12	1" 1" 1"	CIRCUIT FOR GENERATOR BLOCK HEATER & BATTERY HEATER CIRCUIT FOR BATTERY CHARGER CIRCUIT FOR ATS
6	ALARM BLOCK	GENERATOR	1 2-PAIR 24 AWG OR 2EA G-PAIR CAT5	N/A	1"	ALARM CABLES (1) 1 2 PAIR 24 AWG (RUN THRU INTERIOR OF SHELTER & INTO ALARM BOX. PROVIDE 24" OF SLACK CABLE. FINAL PUNCH DOWN IS BY AT&T TECH. LABEL ALL WIRES

CIRCUIT DETAIL
SCALE: NTS

1

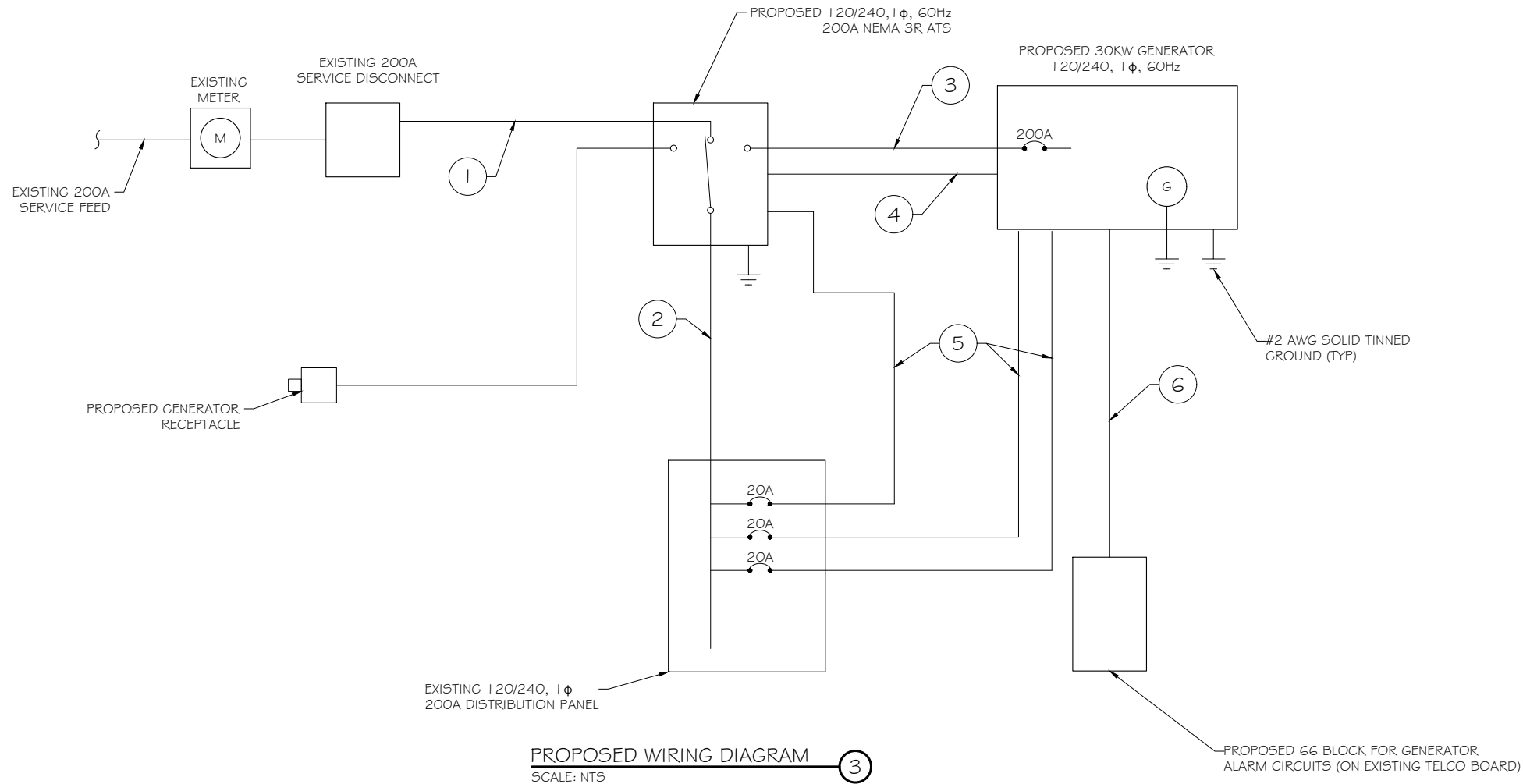
ALARM WIRE IDENTIFICATION CHART

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

ALARM WIRING IDENTIFICATION CHART
SCALE: NTS

2



PROPOSED WIRING DIAGRAM
SCALE: NTS

3



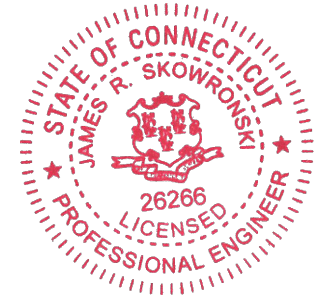
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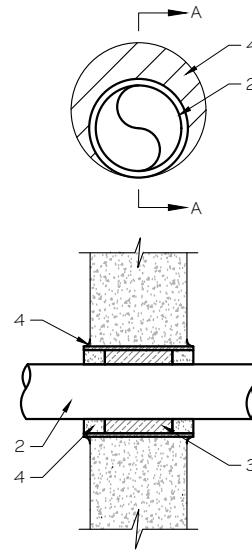
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 389 ROUTE 2 PRESTON
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SHEET TITLE:
WIRING DETAILS

SCALE: NONE

PROJECT NUMBER: 39938
 SHEET NUMBER: E-1

U.L. SYSTEM NO. C-AJ-1150
 CONDUIT THROUGH BEARING WALL SIMILAR TO U.L. DESIGN NO. U902
 F RATING = 3 HR
 T RATING = 0 HR



NOTE:
 1. IF EXISTING CONSTRUCTION VARIES FROM THIS DETAIL, AN EQUAL 3-HR U.L. PENETRATION APPROPRIATE FOR THE EXISTING WALL TYPE SHALL BE CONSTRUCTED
 2. GC SHALL USE NON-SHRINKING CAULK TO WEATHERSEAL ALL PENETRATIONS INTO OR THRU SHELTER WALL.

- FLOOR OR WALL ASSEMBLY : MINIMUM 4- 1/2" THICK REINFORCED LIGHTWEIGHT OR 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 (CATZ) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
- THROUGH PENETRATIONS : ONE METALLIC PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE ANNULAR SPACE SHALL BE MINIMUM 0". (POINT CONTACT) TO MAXIMUM 1 -3/8". THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR CONDUITS MAY BE USED:
 - STEEL PIPE-NOMINAL 6" DIAMETER (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL PIPE.
 - IRON PIPE-NOMINAL 6" DIAMETER (OR SMALLER) CAST OR DUCTILE IRON PIPE.
 - CONDUIT - NOMINAL 4" DIAMETER (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR NOMINAL 3- 1/2" DIAMETER (OR SMALLER) STEEL CONDUIT.
- PACKING MATERIAL: MINIMUM 6" THICKNESS OF MIN 4.0 PCF MINERAL WOOL BATTING INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
- FILL, VOID, OR CAVITY MATERIAL*: SEALANT: MINIMUM 1/4" THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR AND WITH BOTH SURFACES OF WALL. AT THE POINT CONTACT LOCATION BETWEEN PIPE AND CONCRETE, A MINIMUM 1/2" DIAMETER BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE CONCRETE/PIPE INTERFACE ON THE TOP SURFACE OF FLOOR AND ON BOTH SURFACES OF WALL. W RATING APPLIES ONLY WHEN CP6015 OR CP604 SEALANT IS USED.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. : CP6015, CP604, CP606, OR FS-ONE SEALANT.

* BEARING THE UL CLASSIFICATION MARK

OUTER WALL PENETRATION DETAIL
 (IF APPLICABLE)

SCALE: NTS

2

EXISTING PANEL SCHEDULE INFORMATION WAS NOT AVAILABLE AT THE TIME OF DRAWING CREATION.

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, 100A BREAKER IN MAIN PANELBOARD. RELOCATE EXISTING CIRCUITS TO SUBPANEL WHERE REQUIRED. SQUARE D QO LOAD CENTER RECOMMENDED AS NECESSARY.

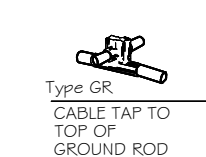
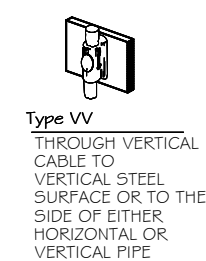
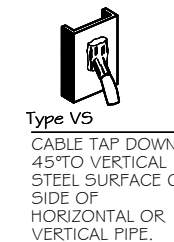
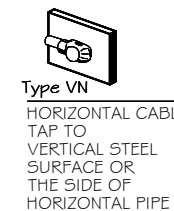
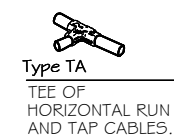
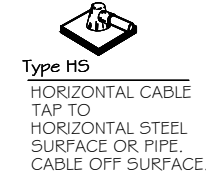
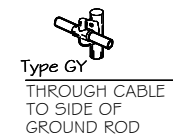
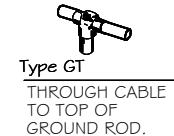
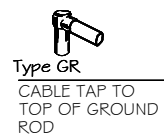
EXISTING PANEL SCHEDULE

SCALE: NTS

1

NOTE:
 CONTRACTOR TO LABEL WIRES WITH P-TOUCH OR SIMILAR LABELS ONLY. ABSOLUTELY NO HANDWRITTEN LABELS.

*CONTRACTOR TO UTILIZE NEXT AVAILABLE IN SEQUENCE SINGLE BREAKER POSITION FOR GENERATOR, BATTERY CHARGER, BATTERY HEATER AND BLOCK HEATER



CADWELD DETAILS

SCALE: NTS

3

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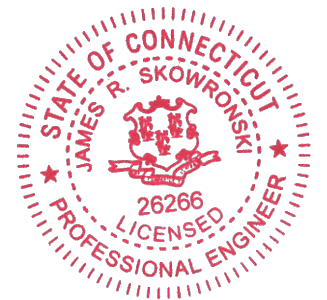
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PREPARED FOR:



CONSULTANT:
GENERAL DYNAMICS
 Information Technology, Inc.
 GENERAL DYNAMICS
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Signature: *James R. Skowronski* Date: 8/02/2018

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ISSUE PHASE	FINAL	DATE ISSUED 08/02/2018

PROJECT TITLE:
PRESTON SOUTH EAST
FA ID # 10071209

PROJECT INFORMATION:
 389 ROUTE 2 PRESTON
 PRESTON, CT 06365

SHEET TITLE:
PANEL AND PENETRATION DETAILS

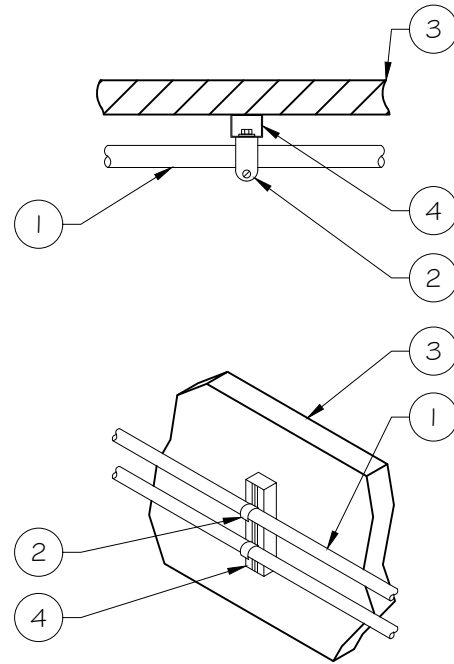
SCALE: NONE

PROJECT NUMBER	39938
SHEET NUMBER	E-2

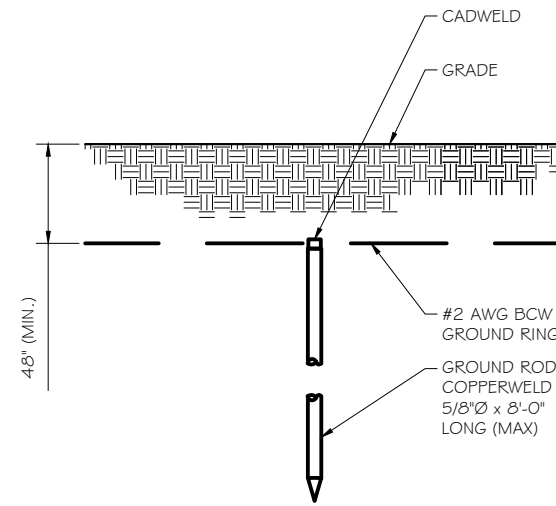
- 1 CONDUIT (TYP)
- 2 BUTTERFLY CLAMP AS REQUIRED
- 3 EXISTING WALL/CEILING
- 4 VERTICAL "UNISTRUT" P1000 T' SERIES LENGTH BASED ON NUMBER OF CONDUIT TO BE MOUNTED

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

NOTE: USE GALVANIZED OR STAINLESS STEEL HARDWARE FOR WALL MOUNT & CONNECTIONS OF CHANNELS SPACE UNITS @ 5'-0" O.C. LENGTH OF RUN



CONDUIT WALL MOUNT
 SCALE: NTS

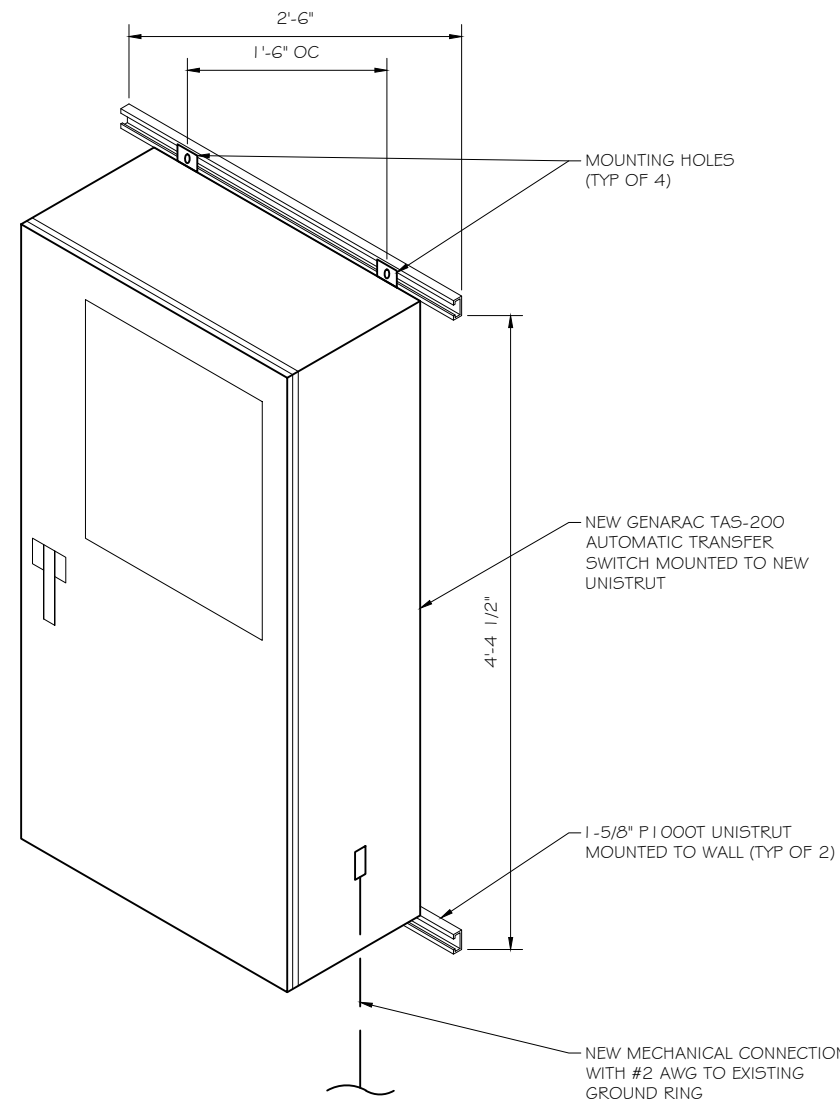


GROUND ROD DETAIL
 SCALE: NTS

- NOTE:
- GROUND RODS MAY BE:
 - COPPER CLAD STEEL
 - SOLID COPPER
 - GROUND RODS SHALL HAVE 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 ANSITIA-EIA-222-G)
 - PROVIDE (1) GROUND LEAD TO EACH SIDE OF THE GENERATOR

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
 - GC SHALL USE NON-SHRINKING CAULK TO WEATHER SEAL ALL PENETRATIONS INTO OR THROUGH SHELTER WALL



INTERSECT ATS MOUNTING DETAIL
 SCALE: NTS

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PROJECT TITLE:
PRESTON SOUTH EAST
FA ID # 10071209

PROJECT INFORMATION:
 389 ROUTE 2 PRESTON
 PRESTON, CT 06365

SHEET TITLE:
ATS, CONDUIT & GROUND ROD
DETAILS

SCALE: NONE

PROJECT NUMBER: 39938
 SHEET NUMBER: E-3

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

EPA Certified Stationary Emergency

APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General		Cooling System	
Make	Mitsubishi	Cooling System Type	Forced Circulation
EPA Emissions Compliance	Interim Tier 4	Water Pump Type	Centrifugal Pump
Cylinder #	4	Fan Type	Pusher
Type	In-Line	Fan Speed (rpm)	2100
Displacement - L (Cu In)	2.5 (158)	Fan Diameter - mm (in)	431.8 (17)
Bore - mm (in)	88 (3.5)	Coolant Heater Wattage	1000
Stroke - mm (in)	103 (4.1)	Coolant Heater Voltage	120
Compression Ratio	22:1		
Intake Air Method	Naturally Aspirated		
Engine Governing		Fuel System	
Governor	Electronic Isochronous	Fuel Type	Ultra Low Sulfur Diesel #2
Frequency Regulation (Steady State)	± 0.25%	Fuel Specifications	ASTM
		Fuel Filtering (microns)	6
		Fuel Inject Pump Make	Bosch
		Injector Type	Engine Driven Gear
		Engine Type	Diesel
		Fuel Supply Line - mm (in.)	6.6 (0.26)
Lubrication System		Engine Electrical System	
Oil Pump Type	Trochoid Gear Pump	System Voltage	12 VDC
Oil Filter Type	Filtering Paper, Full Flow	Battery Charger Alternator	12V-50A
Crankcase Capacity - L (qts)	6.5 (6.9)	Battery Size	650 CCA
		Battery Group	35
		Battery Voltage	12 VDC
		Ground Polarity	Negative

ALTERNATOR SPECIFICATIONS

Standard Model	Mecc Alte ECP 28-2L/4	Bearings	Dual Sealed
Poles	4	Coupling	Belt, Pulley
Field Type	Revolving	Load Capacity - Standby	100%
Insulation Class - Rotor	H	Prototype Short Circuit Test	Yes
Insulation Class - Stator	H	Voltage Regulator Type	Digital
Total Harmonic Distortion	<5%	Number of Sensed Phases	All
Telephone Interference Factor (TIF)	<45	Regulation Accuracy (Steady State)	±0.5%
Standard Excitation	Brushless		

RATING DEFINITIONS

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

GENERAC INDUSTRIAL POWER
Model G007098-0 (Steel)

SPEC SHEET

3 of 5

GENERAC 20KW GENERATOR
SPECIFICATIONS
SCALE: NTS

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

EPA Certified Stationary Emergency

OPERATING DATA

POWER RATINGS

Single-Phase 120/240 VAC @1.0pf Circuit Breaker Size	20 kW 100A	Amps: 83
---	---------------	----------

FUEL CONSUMPTION RATES*

Percent Load	Diesel - gph (lph)	
	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

	gpm (lpm)	Standby
Coolant Flow per Minute		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 O	0.50

COMBUSTION AIR REQUIREMENTS

	Standby
Flow at Rated Power cfm (m ³ /min)	88 (2.49)

ENGINE

	rpm	Standby
Rated Engine Speed	1800	
Horsepower at Rated kW**	hp	33.5
Piston Speed	ft/min	1220.47
BMEP	psi	96.5

EXHAUST

	cfm (m ³ /min)	Standby
Exhaust Flow (Rated Output)	193 (328)	
Max. Backpressure (Post Silencer)	inHg (kPa)	1.38 (4.67)
Exhaust Temp (Rated Output - Post Silencer)	°F (°C)	928 (497.7)

** 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, BS5514, ISO8528 and DIN6271 standards.

4 of 5

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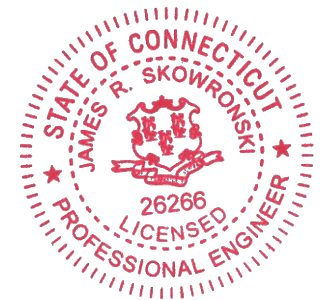
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PROJECT TITLE:
**PRESTON SOUTH EAST
FA ID # 10071209**

PROJECT INFORMATION:
389 ROUTE 2 PRESTON
PRESTON, CT 06365

SHEET TITLE:
**GENERAC 20KW GENERATOR
SPECIFICATIONS**

SCALE: NONE

PROJECT NUMBER	39938
SHEET NUMBER	E-4.1

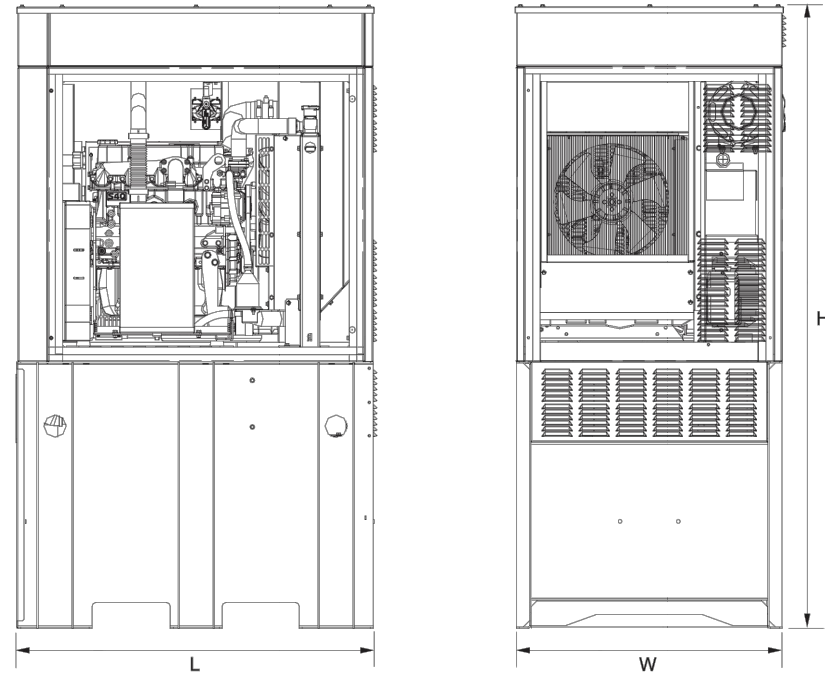
SDC20 | 2.5L | 20 kW - AC
INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

DIMENSIONS AND WEIGHTS*



Model G007098-0 (Steel)



Level 2 Sound Attenuation Enclosure

Run Time Hours	48
Usable Capacity Gal (L)	92 (348.2)
L x W x H in (mm)	48 x 36 x 90 (1219.2 x 914.4 x 2286)
Weight lbs (kg)	2400 (1089)
Sound Level	71 dBA

* All measurements are approximate and for estimation purposes only.

YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER

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

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 Rev. WIP 11/04/16

SPEC SHEET

5 of 5

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

EPA Certified Stationary Emergency



Model G007098-0 (Steel)



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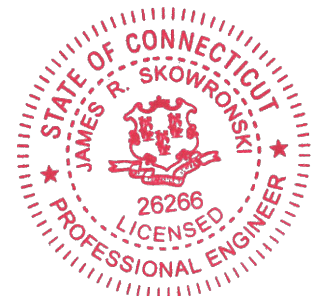
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FA ID # 10071209

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SHEET TITLE:
GENERAC 20KW GENERATOR
SPECIFICATIONS

SCALE: NONE

PROJECT NUMBER 39938
 SHEET NUMBER E-4.2

GENERAC 20KW GENERATOR
 SPECIFICATIONS
 SCALE: NTS



SPEC SHEET

6 of 5

**TTS Series
Switches**

**200 Amps
600 VAC**

GENERAC | **INDUSTRIAL
POWER**

TAS200

200A Automatic Transfer Switch

**TAS200
TAS200**

1 of 3 2 of 3

The Generac TAS200 Automatic Transfer Switch

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



Image used for illustration purposes only.

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**

Codes and Standards

Generac products are designed to the following standards:



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



NEC 700, 701 and 702



NEMA 250

Application and Engineering Data

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

Electrical Specifications	
Voltage/Phase/Amps	120/240 Single-Phase, 200A
	120/208 3-Phase, 200A
	120/240 3-Phase, 200A
Breaker	Eaton 200 amp Utility Breaker
	Eaton 200 amp Generator Breaker
Maximum RMS Symmetrical Fault Current - Amps	25k AIC Rated
Protective Device Continuous Rating (Max) Amp	200
Input to Generator	350MCM - #6 AWG
Output to Site	350MCM - #6 AWG
Generator Annunciator Connector	Deutsch DTM04-12PA-L012
	Generator Run Alarm
Alarm Terminal Board	Generator Fail - Shutdown Alarm
	Generator Fail - Non Shutdown Alarm
	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-Ground
	3-Phase: Black L1, Red L2, Blue L3, White-Neutral, Green-Ground
	Uses 4 CH E1016 Male Connectors
	Mating Connector - CH E1016 Female



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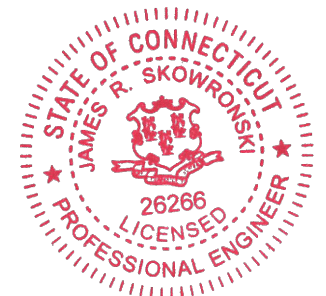
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PRESTON, CT 06365

SHEET TITLE:
GENERAC ATS SPECIFICATIONS

SCALE: NONE

PROJECT NUMBER: 39938
SHEET NUMBER: E-5