

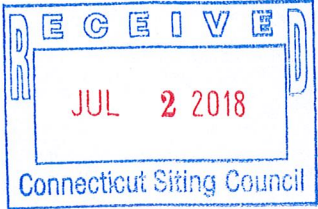


EM-AT&T-100-180702

June 28, 2018

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

ORIGINAL



Re: Notice of Exempt Modification – Emergency Backup Generator  
38 Lower Road, North Canaan, CT

Dear Melanie,

AT&T Mobility currently maintains a wireless telecommunications facility at the above referenced address. The tower and AT&T’s shelter are located within an existing, fenced-in compound area. The shelter houses AT&T’s equipment. AT&T currently does not maintain a generator at this cell site.

In an effort to further enhance the network reliability, AT&T intends to modify its facility by installing a new 30KW diesel fueled generator in a designated 10’ x 5’ lease area. The generator incorporates a built-in fuel tank as part of the unit. The diesel fuel tank is double walled for added safety and will be filled by a licensed fuel filling company. The proposed modification will remain within the existing, fenced-in compound that is surrounded by a security fence and gate. This generator will be placed on a 10’ x 4’ concrete pad. Construction Drawings are attached and approved by the property and tower owner Litchfield County Dispatch, Inc.

Please accept this letter as notification pursuant to R.C.S.A. Section 16-50j-73, for construction that constitutes modification pursuant to R.C.S.A Section 16-50j-72(b)(2). In accordance with R.C.S.A Section 16-50j-73, a copy of this submission is being sent to the Town of North Canaan, CT – The Honorable Charles P. Perotti, First Selectman, Ruth Mulcahy, Zoning Enforcement Officer, Robin Denny, Deputy Fire Marshall who requested be formally notified. Evidence of notifications is attached hereto. A copy of this submission is also being sent to Litchfield County Dispatch, Inc., Daniel Soule, Executive Director who is the property and tower owner on which the telecommunications facility is located.

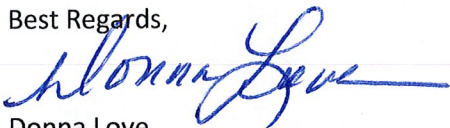
**AT&T's proposed Wireless Modifications Constitute An "Exempt Modification"**

The proposed modification to the above mentioned Facility constitutes an exempt modification of an existing facility provided for R.C.S.A Section 16-50j-72(b)(2) and Council regulations promulgated pursuant thereto.

- 1) The proposed modification will not result in an increase in the height of the existing tower.
- 2) The generator and attached fuel tank will remain entirely within the limits of the leased area. The modifications therefore, will not require the extension of the existing boundary.
- 3) The proposed modification does not increase the noise levels at the boundary by six (6) decibels or more under normal conditions. Proposed modification is only used during emergency power failure of the commercial power.
- 4) The installation of a new generator and attached fuel tank will not change, in any way, radio frequency (RF) emissions at the facility.
- 5) The facility has received local municipal approval and was issued a Building Permit dated April 24, 1998 which was obtained from the property owner and is attached. Also provided by the property owner is a Certificate of Use and Occupancy dated October 24, 2000. The Town of Canaan searched records for the original zoning approval as did the land owner and was unable to obtain such a document. It is assumed that the facility was built prior to any zoning regulations.

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 North Canaan – The Honorable Charles P. Perotti, First Selectman  
Town of North Canaan – Ruth Mulcahy, Zoning Enforcement Officer  
Town of North Canaan – Robin Denny, Deputy Fire Marshall  
Litchfield County Dispatch, Inc. – Property and Tower Owner – Daniel Soule, Exec. Director



# GENERAL DYNAMICS

Wireless Services

**RE: General Dynamics Vendor/Jurisdiction Check(s)**

To whom it may concern,

Please note that if the attached check(s) is not deposited/paid within **270 days** it will need to be returned to my attention at the address below for voiding purposes.

I will need to know if the check(s) needs to be "void/cancel" or "void/reissue". Please do not destroy, shred, rip, dispose of any check(s) that you feel are no longer needed. All checks are accounted for and have to be processed backwardly if not being used due to cost or service changes.

The attached check(s) that need to be returned for any reason are to be sent overnight to my attention at:

*General Dynamics*

*ATTN: Allison Hoffman*

*661 Moore Rd. Ste 110*

*King of Prussia, PA 19406*

If you have any additional questions please feel free to contact me at [Allison.Hoffman@GDIT.com](mailto:Allison.Hoffman@GDIT.com) or by phone 610-233-2368.

Thank you in advance for your cooperation.

Allison Hoffman  
Business Operations Administrator  
General Dynamics Wireless Services  
661 Moore Rd, Ste 110  
King of Prussia, PA 19406  
(610) 233-2368  
[allison.hoffman@gdit.com](mailto:allison.hoffman@gdit.com)  
[www.gdwireless.com](http://www.gdwireless.com)

Permit # 5830

Building Inspector

*W. Conroy*

Date 4-24-98

# BUILDING PERMIT

ISSUED TO

*Litchfield County Dispatch*

TO

AT LOCATION

*38 Lous Rd*

**TOWN OF NORTH CANAAN, CONN.**

THIS PERMIT EXPIRES ONE YEAR FROM DATE OF ISSUE

**POST THIS CARD AT BUILDING SIGHT IN A DRY AREA AVAILABLE TO THE BUILDING OFFICIAL**

Where applicable, separate permits are required for electrical, plumbing and mechanical installations.

Work shall not proceed until the inspector has approved the various stages of construction.

	Date Inspected	Date Inspected
Preliminary & or Excavation	_____	Plumbing Rough-In
Footings & Foundations	_____	HVAC Rough-In
Waterproofing/Foundation Coating	_____	Electric Rough-In
Footing Drains	_____	Fireplace & Masonry Chimneys
Electrical Service	_____	Insulation Inspection
Framing Inspection	_____	Sheetrock or Plaster
Roofing Inspection	_____	Fuel Tanks and Lines

**This Structure is Not to be Used in Whole or Part Until a Certificate of Occupancy is Issued**



RECEIVED  
OCT 30 2000  
LCD

# CERTIFICATE OF USE AND OCCUPANCY NORTH CANAAN, CONNECTICUT

RECEIVED  
OCT 25 2000  
BARNHART CONSTRUCTION CO. INC

This is to certify that the building owned by:

Sitchfield County Wispach

located at 38 Lower Rd - Canaan Ct

Under permit no. 5830 conforms substantially to the requirements of the Building Code, Sanitation Code and all pertaining ordinances of the Town and is hereby approved for occupancy as indicated below.

The use group is: S-1 Storage Raising Construction + Electrical Equipment

The fire grading is: 3B

The maximum live load per floor is: 1st Storage 2nd — 3rd —

Occupancy load for places of assembly is: N.A.

Date 10-24-2000 William P. [Signature] Building Official

Any change or extension of the use herein approved requires a new certificate of occupancy.

Remarks:

CC:

Signed: David Lucibello





# at&t Mobility

**SITE NAME: NORTH CANAAN-LOWER COUNTY RD**  
**FA LOCATION CODE: 10035410**  
**GENERATOR PROJECT**

**RAMAKER & ASSOCIATES, INC.**  
 100% 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:



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.



Signature: *James R. Skowronski* Date: 3/30/2018

MARK	DATE	DESCRIPTION

ISSUE PHASE: FINAL CD's DATE ISSUED: 03/30/2018  
 PROJECT TITLE:  
**NORTH CANAAN-LOWER COUNTY RD**  
**FA ID # 10035410**

PROJECT INFORMATION:  
 38 LOWER ROAD  
 LITCHFIELD, CT 06018

SHEET TITLE:  
**TITLE SHEET**

SCALE: NONE

PROJECT NUMBER: 37514  
 SHEET NUMBER: T-1

**VICINITY MAP**



**AERIAL VIEW OF SITE**



**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:**  
 HEAD NORTHEAST ON ENTERPRISE DR TOWARD CAPITAL BLVD. TURN LEFT ONTO CAPITOL BLVD. TURN LEFT ONTO WEST ST. TURN LEFT TO MERGE ONTO I-91 S TOWARD NEW HAVEN. TAKE EXIT 22N TO MERGE ONTO CT-9 N TOWARD NEW BRITAIN. TAKE EXIT 32 ON THE LEFT TO MERGE ONTO I-84 W TOWARD WATERBURY. TAKE EXIT 39 TOWARD CT-4/FARMINGTON. MERGE ONTO STATE HWY 508. SLIGHT LEFT ONTO CT-4 W. TURN RIGHT ONTO CT-177 NCT-4 W/ MAIN ST. SLIGHT LEFT ONTO CT-4 W/ MAIN ST. CONTINUE TO FOLLOW CT-4 W. CONTINUE ONTO CT-179 N/ CANTON RD. CONTINUE TO FOLLOW CT-179 N. TURN RIGHT ONTO BRIDGE ST. SLIGHT LEFT ONTO CT-179 N/ RIVER RD. TURN LEFT ONTO US 44 W/ ALBANY TURNPIKE. CONTINUE TO FOLLOW US 44 W. TURN LEFT TOWARD LOWER RD. CONTINUE STRAIGHT ONTO LOWER RD. SLIGHT LEFT TO STAY ON LOWER RD. DESTINATION WILL BE ON THE LEFT.

MEMBER  
 ONE CALL SYSTEMS INTERNATIONAL  
**CALL BEFORE YOU DIG**  
 811 OR 1-800-922-4455  
 CONNECTICUT PUBLIC ACT 87-71 REQUIRES MIN. 2 WORKING DAYS NOTICE BEFORE YOU EXCAVATE.

**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

**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

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

**SITE DATA:**  
 SITE NAME: NORTH CANAAN-LOWER COUNTY RD  
 SITE ID: CT1134  
 FA NUMBER: 10035410

**PROPERTY OWNER:** LITCHFIELD COUNTY DISPATCH, INC.  
 111 WATER STREET, TORRINGTON, CT 06018  
 CONTACT: DAN SOULE  
 PHONE: (860) 626-7525

**ADDRESS:**  
 38 LOWER ROAD  
 NORTH CANAAN, CT 06018

**COUNTY:** ESSEX

**LAT.:** 42.014661° N  
**LONG.:** 73.326305° W

**GROUND ELEVATION:** 970 FT AMSL

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

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

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**SIGNATURE BLOCK**

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



Copyright 2018 - Ramaker & Associates, Inc. - All Rights Reserved  
 DRAWN BY: TEB  
 CHECKED BY: MJR  
 1:37500375 14CAD375 14\_GD\_ATT\_GENERATOR\_ADD\_NORTH CANAAN\_10035410.dwg  
 Printed by: mreeve on Mar 30, 2018 - 3:18pm

**NOTES TO SUBCONTRACTOR:**

1. 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.
2. IT IS THE INTENTION OF THESE DRAWINGS TO SHOW THE COMPLETED INSTALLATION. THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY BRACING, SHORING, TIES, FORM WORK, ETC. IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL ORDINANCES, TO SAFELY EXECUTE ALL WORK AND SHALL BE RESPONSIBLE FOR SAME. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES.
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 OF THE WORK.
4. CONSTRUCTION SUBCONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION SUBCONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND CONSTRUCTION SUBCONTRACTOR FURTHER AGREES TO INDEMNIFY AND HOLD DESIGN ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH PERFORMANCE OF WORK ON THIS PROJECT.
5. SITE GROUNDING SHALL COMPLY WITH AT&T WIRELESS SERVICES TECHNICAL SPECIFICATIONS FOR FACILITY GROUNDING FOR CELL SITE STANDARDS, LATEST EDITION, AND COMPLY WITH AT&T 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.
6. ALL WORK SHALL COMPLY WITH OSHA AND STATE SAFETY REQUIREMENTS. PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION. IF TEMPORARY LIGHTING AND MARKING IS 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.
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.
8. ANY DAMAGE TO THE ADJACENT PROPERTIES WILL BE CORRECTED AT THE SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE LANDOWNER AND THE ENGINEER.
9. THE COMPLETE BID PACKAGE INCLUDES THESE CONSTRUCTION DRAWINGS ALONG WITH THE SPECIFICATIONS. SUBCONTRACTOR IS RESPONSIBLE FOR REVIEW OF TOTAL BID PACKAGE PRIOR TO BID SUBMITTAL.
10. SUBCONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES WITHIN CONSTRUCTION LIMITS PRIOR TO CONSTRUCTION.
11. THE SUBCONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE ON THE SITE AT ALL TIMES. SILT AND EROSION CONTROL SHALL BE MAINTAINED ON THE DOWNSTREAM SIDE OF THE SITE AT ALL TIMES. ANY DAMAGE TO ADJACENT PROPERTIES WILL BE CORRECTED AT THE SUBCONTRACTOR'S EXPENSE.
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.
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.
14. SEEDING AND MULCHING OF THE SITE WILL BE ACCOMPLISHED AS SOON AS POSSIBLE AFTER COMPLETION OF THE SITE DEVELOPMENT. THE SUBCONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAIN AN ADEQUATE COVER OF VEGETATION OVER THE SITE FOR A ONE YEAR PERIOD.
15. PERMITS: THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND INCURRING THE COST OF ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATES, ETC.
16. 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.
17. 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 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.

**GENERAL NOTES:**

1. 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.
2. THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE.
3. THE PROPOSED FACILITY IS UNMANNED AND IS NOT FOR HUMAN HABITAT. (NO HANDICAP

**ACCESS IS REQUIRED)**

4. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH BY AT&T TECHNICIANS.
5. OUTDOOR STORAGE AND SOLID WASTE CONTAINERS ARE NOT PROPOSED.
6. ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
7. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY THE CONSTRUCTION OPERATION.
8. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTION REQUIRED FOR CONSTRUCTION.
9. SUBCONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.

**ELECTRICAL NOTES:**

**A. GENERAL**

1. COORDINATE LOCATION AND POWER REQUIREMENTS OF ALL EQUIPMENT WITH AT&T AND EQUIPMENT SUPPLIER PRIOR TO INSTALLATION.
2. COORDINATE LOCATION AND REQUIREMENTS FOR ELECTRICAL AND TELEPHONE SERVICES WITH THE PROPERTY REPRESENTATIVE, AT&T AND UTILITY COMPANIES. ROUTING OF CONDUITS MAY BE MODIFIED TO MEET SITE REQUIREMENTS. EXACT CONDUIT ROUTING TO BE DETERMINED IN THE FIELD.
3. ALL WIRING AND EQUIPMENT SHOWN ON ELECTRICAL SHEETS SHALL BE FURNISHED AND INSTALLED UNDER ELECTRICAL PORTION OF CONTRACT UNLESS OTHERWISE NOTED
4. UNINTERRUPTED ELECTRICAL SERVICE FOR EXISTING EQUIPMENT SHALL BE MAINTAINED DURING THE INSTALLATION OF THE WORK DESCRIBED UNDER THESE DOCUMENTS. TEMPORARY EQUIPMENT, CABLES AND WHATEVER ELSE IS NECESSARY SHALL BE PROVIDED 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, 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 MADE IN SUFFICIENT TIME FOR PROPER ARRANGEMENTS TO BE MADE. WRITTEN PERMISSION SHALL BE OBTAINED FROM THE OWNER BEFORE INTERRUPTING ELECTRICAL SERVICE.
5. COORDINATE NEW WORK WITH OTHER TRADES AND VERIFY EXISTING CONDITIONS TO AVOID INTERFERENCE. IN CASE OF INTERFERENCE, AT&T'S REPRESENTATIVE WILL DECIDE WHICH WORK IS TO BE RELOCATED, REGARDLESS OF WHICH WAS FIRST INSTALLED.
6. 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 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.
8. CONTRACTOR SHALL PAY ALL PERMITS AND FEES REQUIRED.
9. 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. ASTM (AMERICAN SOCIETY FOR TESTING MATERIALS)
  - 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)
  - g. NESC (NATIONAL ELECTRICAL SAFETY CODE)
  - h. NEMA (NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION)
  - i. NFPA (NATIONAL FIRE PROTECTION ASSOCIATION)
  - j. UL (UNDERWRITER'S LABORATORY)

10. 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 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 NECESSARY TO MAKE A COMPLETE WORKING INSTALLATION, SHALL BE INCLUDED.

11. THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) AT&T'S REPRESENTATIVE OF ANY CONFLICTS PRIOR TO THE SUBMISSION OF CONTRACTOR'S 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.

12. ALL FLOORS WHERE PENETRATIONS ARE REQUIRED IN BUILDING ARE TO BE CORE DRILLED AND THEN FIREPROOFED.

**B. WIRING/CONDUIT**

1. PROVIDE FULL BOXES AND JUNCTION BOXES WHERE SHOWN OR AS REQUIRED BY CODE 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 DEGREES CELSIUS, UNLESS NOTED OTHERWISE.

3. CONDUIT BENDS SHALL BE MADE IN ACCORDANCE WITH NEC TABLE 346-10. NO RIGHT ANGLE DEVICE OTHER THAN STANDARD CONDUIT ELBOWS WITH 1 2" MINIMUM INSIDE SWEEPS FOR ALL CONDUITS 2" OR LARGER.
4. POWER WIRING SIZE SHALL NOT BE SMALLER THAN #12 AWG.
5. ALL WIRING SHALL BE COPPER. ALUMINUM WILL NOT BE ACCEPTABLE ALL POWER CIRCUITS SHALL CONTAIN A GROUND WIRE.
6. PHASE MARKINGS TO BE USED AT POWER CONDUCTOR TERMINATIONS.
7. CONTRACTOR SHALL ENSURE INTEGRITY IS MAINTAINED WHEN INSTALLING CONDUIT AND WIRING.
8. INSTALL FULL STRING IN ALL CONDUIT.
9. FOR ROOFTOP INSTALLS AND BUILD-OUTS, CONDUITS INSIDE BUILDING AND ON ROOF SHALL BE RGS, UNLESS OTHERWISE NOTED. FOR RAW LAND SITES AND CO-LOCATES, PVC SCHEDULE 80 SHALL BE UTILIZED UNLESS NOTED OTHERWISE.
10. MAINTAIN MINIMUM 1'-0" VERTICAL AND 1'-0" HORIZONTAL SEPARATIONS FROM ANY MECHANICAL GAS PIPING.
11. ALL WIRING Routed IN PLENUM TO BE RATED OR IN METALLIC FLEX (LIQUIDITE) CONDUIT.

**C. EQUIPMENT**

1. EQUIPMENT/PARTS CONNECTED TO EXISTING PANELS, DUCTS, ETC. SHALL MATCH THE CHARACTERISTICS (A/C, V, A) OF THAT EQUIPMENT.
2. ALL ELECTRICAL EQUIPMENT OUTSIDE SHALL BE NEMA OR 3R RATED.

**D. GROUNDING**

1. ALL GROUND CONNECTIONS TO BUILDING SHALL BE MADE USING TWO-HOLE CONNECTORS. PROVIDE STAINLESS STEEL BOLTS AND LOCK WASHERS ON ALL MECHANICAL GROUND CONNECTIONS.
2. ALL EQUIPMENT SURFACES TO BE BONDED TO GROUNDING SYSTEM SHALL BE STRIPPED OF ALL PAINT AND DIRT. CONNECTIONS TO VARIOUS METALS SHALL BE OF A TYPE AS TO CAUSE A GALVANIC OR CORROSIVE REACTION. AREA SHALL BE REPAINTED FOLLOWING BONDING.
3. ANY METALLIC ITEM WITHIN 6' OF GROUND CONDUCTORS MUST BE CONNECTED TO THE GROUNDING SYSTEM.
4. EXTERIOR, ABOVE GRADE GROUND CONNECTIONS SHALL BE FURNISHED WITH A LIBERAL PROTECTIVE COATING OF ANTI-OXIDE COMPOUND.
5. ALL MATERIALS AND LABOR REQUIRED FOR THE GROUNDING SYSTEM AS INDICATED ON THE PLANS AND DETAILS, AND AS DESCRIBED HEREIN SHALL BE FURNISHED BY THIS CONTRACTOR UNLESS OTHERWISE NOTED.
6. EXACT LOCATION OF GROUND CONNECTION POINTS SHALL BE DETERMINED IN FIELD. ADJUST LOCATIONS INDICATED ON PLANS ACCORDING TO ACTUAL EQUIPMENT LOCATIONS TO KEEP THE GROUND CONNECTION CABLES AS SHORT AS PRACTICAL.
7. PROVIDE ALL ELECTRICAL SYSTEM AND EQUIPMENT GROUNDS AS REQUIRED BY THE CURRENT EDITION OF THE NATIONAL ELECTRIC CODE (1999) AND THE CURRENT EDITION OF THE NATIONAL ELECTRICAL SAFETY CODE. BONDING JUMPERS WITH APPROVED GROUND FITTINGS SHALL BE INSTALLED AT ALL RACEWAYS, EQUIPMENT ENCLOSURES, FULL BOXES, ETC. TO MAINTAIN GROUND CONTINUITY WHERE REQUIRED BY CODE.
8. ALL EQUIPMENT GROUND CONDUCTORS SHALL BE TIN COATED, #2 AWG COPPER UNLESS NOTED OTHERWISE ON THE DRAWINGS.

**E. INSPECTION/DOCUMENTATION**

1. THE CONTRACTOR, UPON COMPLETION OF HIS WORK, SHALL PROVIDE AS-BUILT DRAWINGS. INFORMATION SHOULD BE GIVEN TO THE GENERAL CONTRACTOR FOR INCLUSION IN FINAL AS-BUILT SURVEY DOCUMENTS TO BE GIVEN TO THE OWNER.
2. CONTRACTOR SHALL SUPPLY DOCUMENTATION ATTESTING TO THE COMPLETE GROUND SYSTEM'S RECEPTIVITY (MAX. 5 OHMS).
3. AN ELECTRICAL INSPECTION SHALL BE MADE BY AND INSPECTING AGENCY APPROVED BY AT&T'S REPRESENTATIVE. CONTRACTOR SHALL COORDINATE ALL INSPECTIONS AND OBTAIN POWER COMPANY APPROVAL.
4. CONTRACTOR SHALL HAVE ATS AND GENERATOR RELAY INSTALLATION AND CONNECTIONS INSPECTED BY OTHERS TO ENSURE THAT UL LISTING FOR THAT EQUIPMENT IS NOT VOIDED.



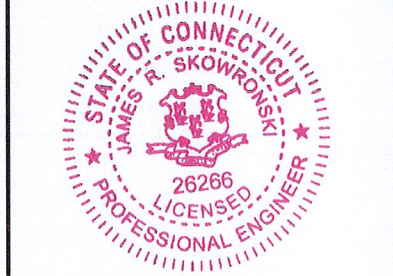
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**PREPARED FOR:**



**CONSULTANT:**  
**GENERAL DYNAMICS**  
 Information Technology, Inc.  
 GENERAL DYNAMICS  
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 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.



Signature: *James R. Skowronski* Date: 3/30/2018

MARK	DATE	DESCRIPTION

ISSUE PHASE: FINAL CDs DATE ISSUED: 03/30/2018  
 PROJECT TITLE:  
**NORTH CANAAN-LOWER COUNTY RD**  
**FA ID # 10035410**

PROJECT INFORMATION:  
 38 LOWER ROAD  
 LITCHFIELD, CT 06018

SHEET TITLE:  
**GENERAL NOTES**

SCALE: NONE

PROJECT NUMBER: 37514  
 SHEET NUMBER: N-1

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 DRAWN BY: TRB CHECKED BY: MJR  
 1:\375000\37514\_GD\_ATT\_GENERATOR\_ADD\_NORTH\_CANAAN\_10.dwg Printed by: mreece on Mar 30, 2018 - 3:18pm

**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 E-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.

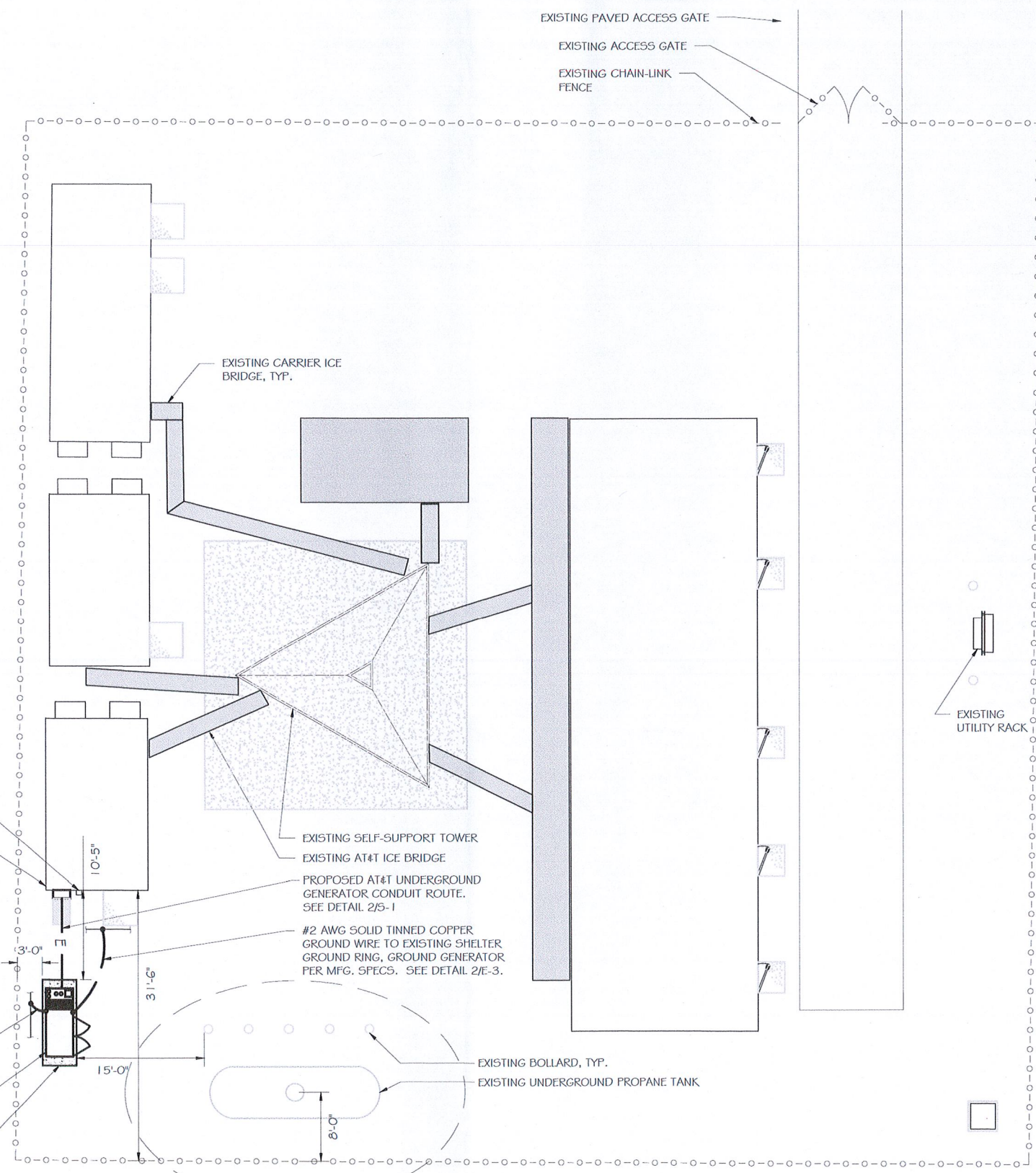
EXISTING CAMLOCK

PROPOSED AT&T AUTOMATIC TRANSFER SWITCH ON EXISTING EQUIPMENT BUILDING W/ 3' CLEARANCE IN FRONT. SEE SHEET E-3 FOR DETAILS.

#2 AWG SOLID TINNED COPPER GROUND WIRE TO EXISTING FENCE GROUND RING, GROUND GENERATOR PER MFG. SPECS. SEE DETAIL 2/E-3.

PROPOSED AT&T GENERAC 30kW DIESEL GENERATOR LOCATION. SEE SHEET E-4 FOR SPECIFICATIONS.

PROPOSED 4'-0" X 10'-0" CONCRETE PAD. SEE SHEET A-2 FOR DETAILS.



EXISTING PAVED ACCESS GATE  
 EXISTING ACCESS GATE  
 EXISTING CHAIN-LINK FENCE

EXISTING CARRIER ICE BRIDGE, TYP.

EXISTING SELF-SUPPORT TOWER  
 EXISTING AT&T ICE BRIDGE  
 PROPOSED AT&T UNDERGROUND GENERATOR CONDUIT ROUTE. SEE DETAIL 2/E-1

#2 AWG SOLID TINNED COPPER GROUND WIRE TO EXISTING SHELTER GROUND RING, GROUND GENERATOR PER MFG. SPECS. SEE DETAIL 2/E-3.

EXISTING BOLLARD, TYP.  
 EXISTING UNDERGROUND PROPANE TANK

EXISTING UTILITY RACK

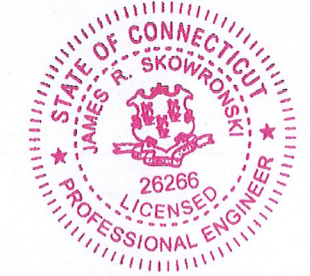


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PREPARED FOR:  
**at&t**  
 Mobility

CONSULTANT:  
**GENERAL DYNAMICS**  
 Information Technology, Inc.  
 GENERAL DYNAMICS  
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Signature: *James R. Skowronski* Date: 3/30/2018

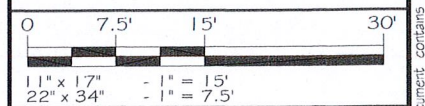
MARK	DATE	DESCRIPTION

ISSUE PHASE: FINAL CD's DATE ISSUED: 03/30/2018

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 NORTH CANAAN-LOWER COUNTY RD  
 FA ID # 10035410

PROJECT INFORMATION:  
 38 LOWER ROAD  
 LITCHFIELD, CT 06018

SHEET TITLE:  
 SITE PLAN & EQUIPMENT LAYOUT

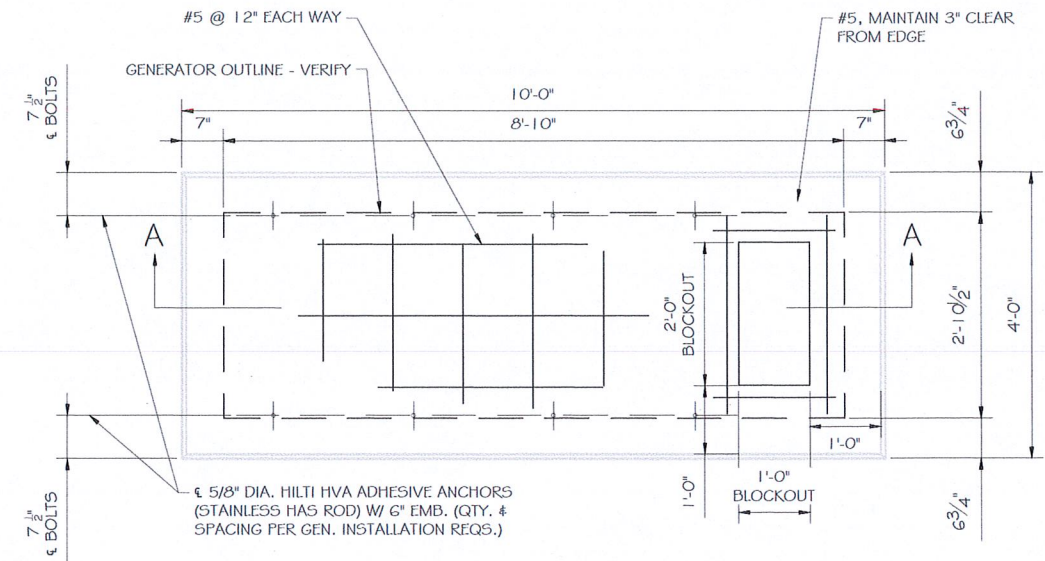


PROJECT NUMBER: 37514  
 SHEET NUMBER: A-1

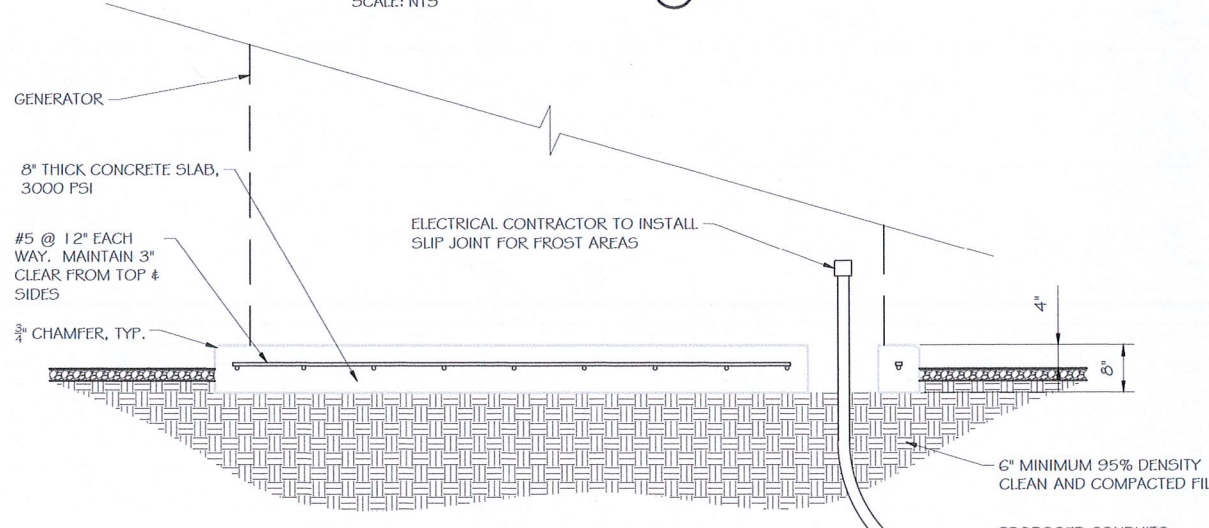
**SITE PLAN**  
 SCALE: 1" = 15'-0" (1)

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**FOUNDATION PLAN**  
 SCALE: NTS



**SECTION A-A**  
 SCALE: NTS

**DOUBLE WALL FUEL TANK BASE SPECIFICATION**

REF: ATT 50KW 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 PSI AND LEAK-CHECKED TO ENSURE INTEGRITY OF SUB BASE WELD SEAMS PER UL-142 STANDARDS

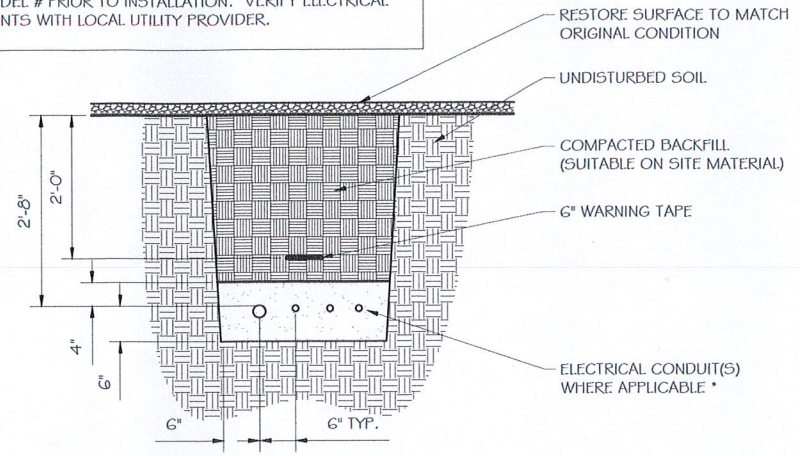
FUEL FILL: 5 GALLON SPILL CONTAINMENT WITH ALARM

- 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.

**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**

- GENERAL CONDITIONS
  - 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.
  - 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.
  - DO NOT SCALE DRAWINGS
  - VERIFY ALL EQUIPMENT MOUNTING DIMENSIONS PER MANUFACTURER DRAWINGS
  - DESIGN LOADS ARE (GENERAC):
 

LIVE LOAD	: 100 PSF
EQUIPMENT SIZE	: 889.1" H, 106" W, 38" D
WEIGHT WITH WOODEN SHIPPING SKID	
ENCLOSED GENERATOR WITH EMPTY FUEL TANK	: 3974 LBS
TANK SIZE	: 190 GAL
- FOR DESIGN & ANALYSIS OF THE FOUNDATION, THE MINIMUM NET SOIL BEARING CAPACITY SHALL BE ASSUMED TO BE 2000 PSF.
- CONCRETE
  - MEET OR EXCEED THE FOLLOWING CODES & STANDARDS:
 

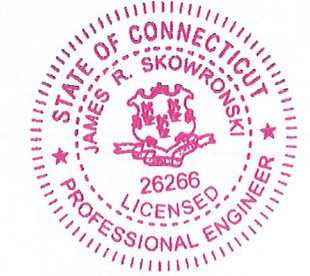
DESIGN	: ACI 318-11
CONSTRUCTION	: ACI 301
DETAILING	: CRSI MANUAL OF STANDARD PRACTICE
REINF. STEEL	: ASTM A 615 GRADE 60, DEFORMED
MIXING	: ASTM C 94. READY MIX CONCRETE
AIR ENTRAINMENT	: ACI 318 AND ASTM C-260
AGGREGATE	: ASTM C 33 AND C 330 (FOR LIGHT WEIGHT)
  - CONCRETE STRENGTH AT 28 DAYS SHALL BE 4000 PSI MINIMUM
  - DO NOT FIELD BEND OR WELD TO GRADE 60 REINFORCED STEEL
  - PROVIDE AIR ENTRAINMENT CONCRETE WITH AIR CONTENT OF 5 TO 7% FOR ALL CONCRETE EXPOSED TO EARTH OR WEATHER.
  - MAXIMUM AGGREGATE SIZE: 3/4"
  - DO NOT USE IN ADMIXTURE, WATER OR OTHER CONSTITUENTS OF CONCRETE WHICH HAS CALCIUM CHLORIDE.
  - MINIMUM COVER FOR REINFORCING STEEL SHALL BE AS SHOWN ON PLAN.
- FOUNDATION & EXCAVATION NOTES
  - SLAB SHALL BE CONSTRUCTED UPON UNDISTURBED, NATURAL SUBGRADE OR COMPACTED GRANULAR FILL WITH AN ASSUMED MINIMUM NET ALLOWABLE BEARING CAPACITY OF 2000 PSF.
  - 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 D 1557).
  - 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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		03/30/2018

PROJECT TITLE:  
**NORTH CANAAN-LOWER COUNTY RD**  
 FA ID # 10035410

PROJECT INFORMATION:  
 38 LOWER ROAD  
 LITCHFIELD, CT 06018

SHEET TITLE:  
**FOUNDATION DETAILS**

SCALE: NONE

PROJECT NUMBER	37514
SHEET NUMBER	5-1



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	12-PAIR 24 AWG OR 2EA 6-PAIR CAT5	N/A	1"	ALARM CABLES (1) 12 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

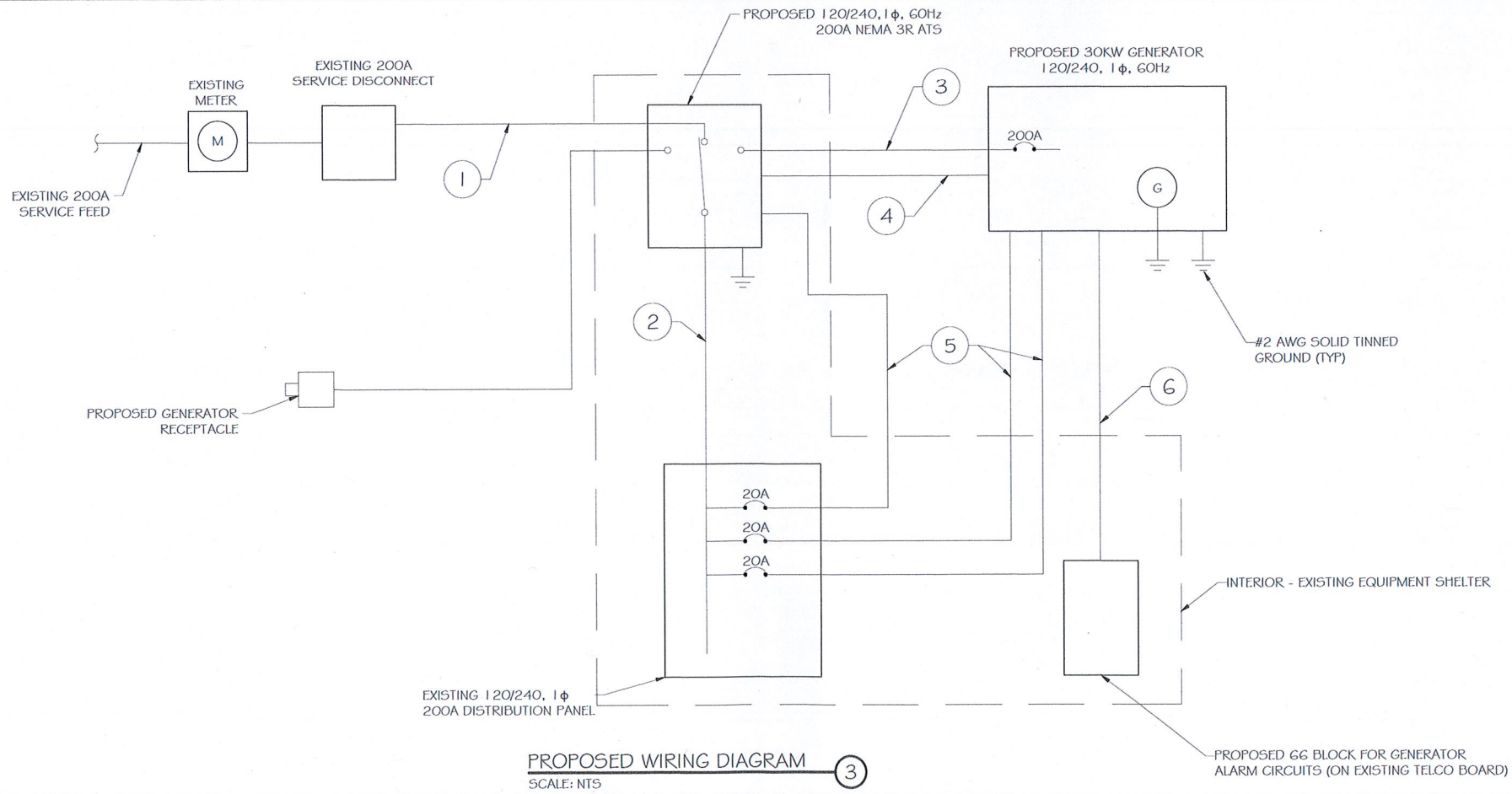
CIRCUIT DETAIL  
 SCALE: NTS

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



PROPOSED WIRING DIAGRAM  
 SCALE: NTS

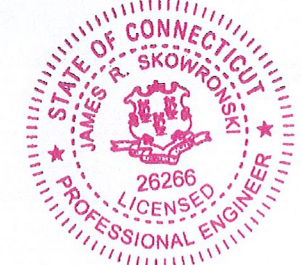
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 FA ID # 10035410

PROJECT INFORMATION:  
 38 LOWER ROAD  
 LITCHFIELD, CT 06018

SHEET TITLE:  
 WIRING DETAILS

SCALE: NONE

PROJECT NUMBER: 37514  
 SHEET NUMBER: E-1



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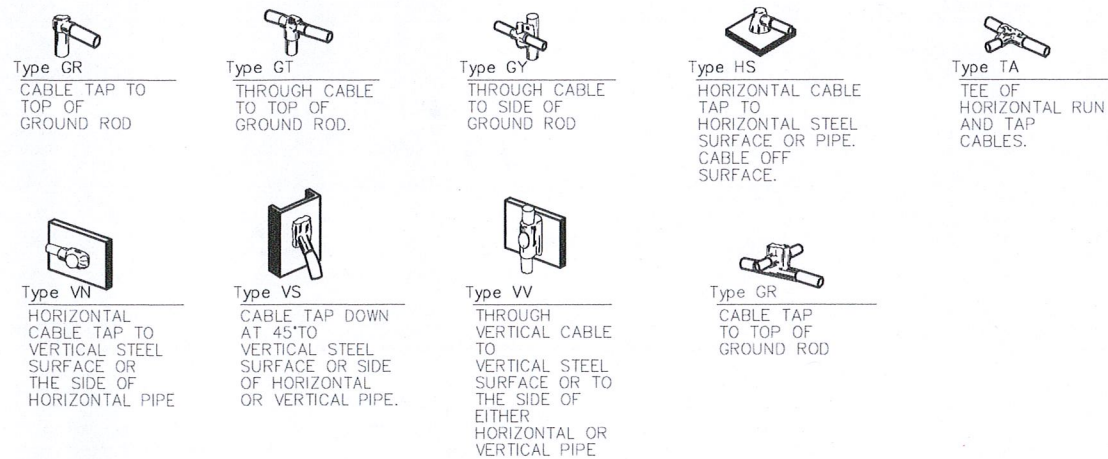
AC DISTRIBUTION PANEL 1 - LAYOUT DIAGRAM										
BREAKER POSITION	BREAKER TYPE	ON/OFF	SIZE	LABEL	LABEL	SIZE	ON/OFF	BREAKER TYPE	BREAKER POSITION	
1				Rectifiers #1	Lights			1P	2	
3	2P	ON	20					1P	4	
5				Rectifiers #2					6	
7	2P	ON	20			20	ON	1P	8	
9				Rectifiers #3				1P	10	
11	2P	ON	20		Smoke			1P	12	
13	2P	ON	20	Rectifiers #4			OFF	1P	14	
15					GFCI	20	ON	1P	16	
17				Rectifiers #5	HVAC #1		ON	2P	18	
19	2P	ON	20						20	
21				Rectifiers #6	HVAC #2		ON	2P	22	
23	2P	ON	20						24	
25	2P	OFF	20	Rectifiers #7	BATTERY CHARGER	20	ON	1P	26	
27					BLOCK HEATER	20	ON	1P	28	
29	2P	OFF	20	Rectifiers #8	ATS	20	ON	1P	30	
31	2P	OFF	20						32	
33				Rectifiers #9					34	
35	2P	OFF	20						36	
37	BLANK								38	
39	BLANK								40	

PROPOSED 20A BREAKERS FOR ATS, BLOCK HEATER AND BATTERY CHARGER ON NEW AT&T GENERATOR

**EXISTING PANEL SCHEDULE**  
SCALE: NTS

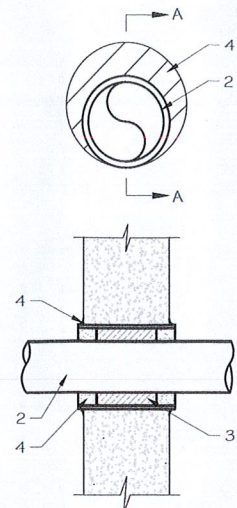
NOTE:  
CONTRACTOR TO LABEL WIRES WITH P-TOUCH OR SIMILAR LABELS ONLY. ABSOLUTELY NO HANDWRITTEN LABELS.

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



**CADWELD DETAILS**  
SCALE: NTS

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.



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

- 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 (SCATZ) 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

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SHEET TITLE:  
**PANEL AND PENETRATION DETAILS**

SCALE: NONE

PROJECT NUMBER: 37514  
SHEET NUMBER: E-2

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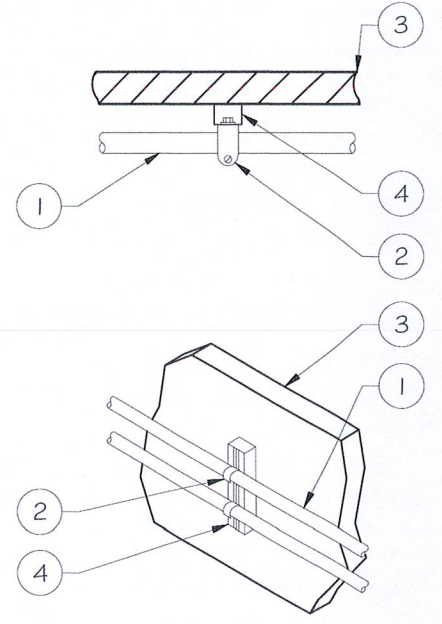


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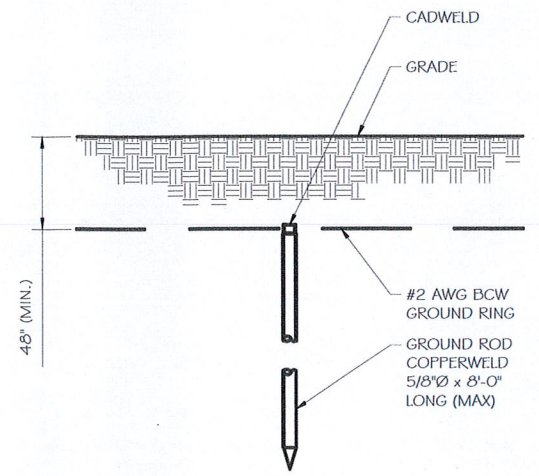
- 1 CONDUIT (TYP)
- 2 BUTTERFLY CLAMP AS REQUIRED
- 3 EXISTING WALL/CEILING
- 4 VERTICAL "UNISTRUT" P1000 T' SERIES LENGTH BASED ON NUMBER OF CONDUIT TO BE MOUNTED

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

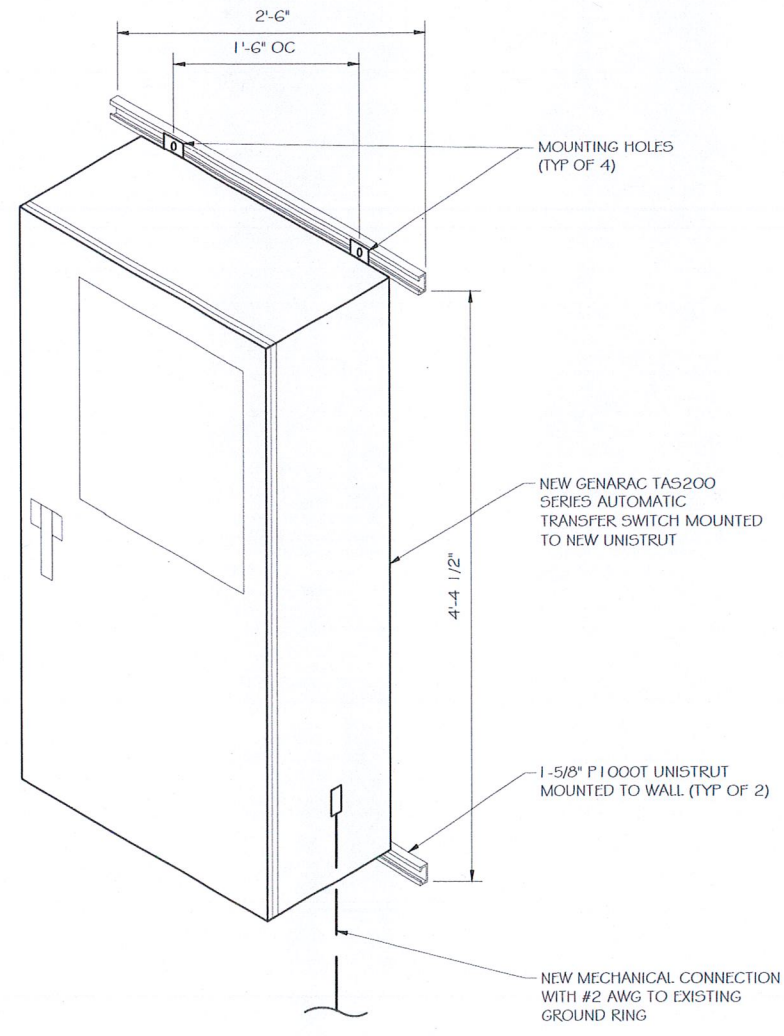


- NOTE:
- GROUND RODS MAY BE:
    - COPPER CLAD STEEL
    - SOLID COPPER
  - GROUND RODS SHALL HAVE A MAXIMUM SPACING TWICE THE LENGTH OF ROD
  - SEE RESISTIVITY REPORT FOR VERIFICATION AS AVAILABLE
  - A LARGER CONDUCTOR SHALL BE REQUIRED IN AREAS HIGHLY PRONE TO LIGHTNING AND/OR AREAS WITH HIGHLY ACIDIC 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 ANSI/TIA-EIA-222-G)
  - PROVIDE (1) GROUND LEAD TO EACH SIDE OF THE GENERATOR

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"

- 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



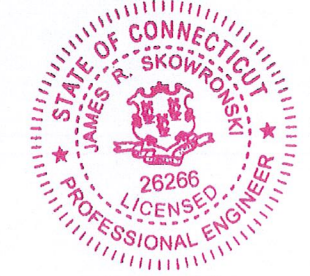
INTERSECT ATS MOUNTING DETAIL  
SCALE: NTS

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 Woodcliff Lake, NJ • Bayamon, PR

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.



Signature: *James R. Skowronski* Date: 3/30/2018

MARK	DATE	DESCRIPTION
ISSUE PHASE	FINAL CD <sub>s</sub>	DATE ISSUED 03/30/2018

PROJECT TITLE:  
 NORTH CANAAN-LOWER COUNTY RD  
 FA ID # 10035410  
 PROJECT INFORMATION:  
 38 LOWER ROAD  
 LITCHFIELD, CT 06018

SHEET TITLE:  
 ATS, CONDUIT & GROUND ROD DETAILS

SCALE: NONE

PROJECT NUMBER: 37514  
 SHEET NUMBER: E-3

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# SD030

## 2.4L

# GENERAC INDUSTRIAL POWER

## Industrial Diesel Generator Set

EPA Certified Stationary Emergency

SD030 30 kW  
 SD030 30 kW  
 1 of 6 2 of 6



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

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



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

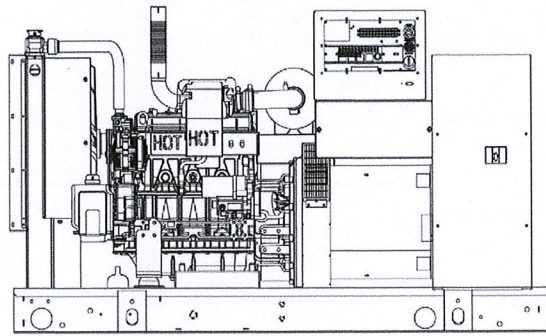


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### Codes and Standards

Generac products are designed to the following standards:

- UL2200, UL508, UL142, UL498
- NFPA70, 99, 110, 37
- NEC700, 701, 702, 708
- ISO9001, 8528, 3046, 7637, Pluses #2b, 4
- NEMA ICS10, MG1, 250, ICS6, AB1
- ANSI C62.41  
American National Standards Institute

### Powering Ahead

For over 50 years, Generac has led the industry with innovative design and superior manufacturing.

Generac ensures superior quality by designing and manufacturing most of its generator components, including alternators, enclosures and base tanks, control systems and communications software.

Generac's gensets utilize a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application.

Generac searched globally to ensure the most reliable engines power our generators. We choose only engines that have already been proven in heavy-duty industrial application under adverse conditions.

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

### SD030

#### Standard Features

##### ENGINE SYSTEM

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

##### Fuel System

- Fuel lockoff solenoid
- Primary fuel filter

##### Cooling System

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

##### Engine Electrical System

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

##### ALTERNATOR SYSTEM

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

##### GENERATOR SET

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

##### ENCLOSURE (if selected)

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

##### TANKS (if selected)

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

#### CONTROL SYSTEM



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

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

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

##### Alarms

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

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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.



Signature: *James R. Skowronski* Date: 3/30/2018

MARK	DATE	DESCRIPTION
ISSUE PHASE	FINAL CD's	DATE ISSUED 03/30/2018

PROJECT TITLE:  
**NORTH CANAAN-LOWER COUNTY RD**  
 FA ID # 10035410

PROJECT INFORMATION:  
 38 LOWER ROAD  
 LITCHFIELD, CT 06018

SHEET TITLE:  
**GENERAC 30KW GENERATOR SPECIFICATIONS**

SCALE: NONE

PROJECT NUMBER: 37514  
 SHEET NUMBER: E-4



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**TTS Series  
Switches**  
200 Amps  
600 VAC

GENERAC<sup>®</sup> 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

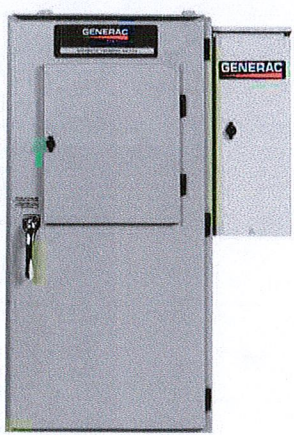


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Features

- 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	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 Generator Fail - Shutdown Alarm Generator Fail - Non Shutdown Alarm
Alarm Terminal Board	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



GENERAC ATS SPECIFICATIONS ①  
SCALE: NTS

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NORTH CANAAN-LOWER  
COUNTY RD  
FA ID # 10035410

PROJECT INFORMATION:  
38 LOWER ROAD  
LITCHFIELD, CT 06018

SHEET TITLE:  
GENERAC ATS SPECIFICATIONS

SCALE: NONE

PROJECT NUMBER: 37514  
SHEET NUMBER: E-5

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