

# GDIT

August 20, 2024

VIA ELECTRONIC AND FEDERAL EXPRESS

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

New Cingular Wireless PCS, LLC (“AT&T”)  
Notice of Exempt Modification  
Emergency Back-up Generator  
790 Willis Street, Bristol, CT 06010  
Lat.: 41.64907500; Long.: -072.94802690

Dear Ms. Bachman:

This letter and enclosures are respectfully submitted on behalf of New Cingular Wireless PCS, LLC (“AT&T”). AT&T currently maintains its wireless telecommunications facility on the existing tower located at 790 Willis Street in the City of Bristol, Connecticut. The underlying property is owned by Connecticut Light & Power Co. and the tower is owned by American Tower. AT&T submits this letter and enclosures to the Connecticut Siting Council (“Council”) to notify the Council of AT&T’s intent to perform modifications to the existing facility that do not have substantial adverse environmental effects and thus do not require a certificate pursuant to Section 16-50k of the Connecticut General Statutes.

AT&T intends to remove the existing out of service generator and concrete pad and install a new 4’x10’ concrete pad and one (1) new Generac 50kW Diesel Generator within the existing grade-level fenced equipment compound as demonstrated on the plans enclosed as Attachment 1.

AT&T’s existing facility supports its FirstNet program which provides first responders with priority access to AT&T’s network to ensure adequate communication capabilities in the event of emergency. AT&T’s proposed generator will ensure that critical communication capability for first responders and the public are not lost in the event of a loss of power.

AT&T’s proposed generator will also advance the State’s goal of natural disaster and emergency preparedness. As discussed in the Council’s Docket 432 Findings and Report and Docket 440 proceedings and Findings of Fact (Nos. 76- 77), in response to two significant storm events in 2011, the State formed a Two Storm Panel (the “Panel”) that evaluated Connecticut’s approach to planning and mitigation of impacts associated with emergencies and natural disasters. The Panel found that “wireless telecommunications service providers were not prepared to serve residential and business customers during a power outage” because certain companies had limited backup generator capacity.

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The Panel also noted that “[t]he failure of a large portion of Connecticut’s telecommunications system during the two storms is a life safety issue.” The Panel recommended that State regulatory bodies review “telecommunications services currently in place to verify that the vendors have sufficient generator and backhaul capacity to meet the emergency needs of consumers and businesses” and that the “Connecticut Siting Council should require continuity of service plans for any cellular tower to be erected.” The planned modifications will ensure continuity of services by reinforcing AT&T’s backup power and backhaul capacity to meet the emergency needs of first responders, consumers, and businesses in the event of a power outage.

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

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

This modification complies with the aforementioned approval. AT&T’s proposed modification will maintain compliance with any relevant conditions these original approvals and any other subsequent approvals. The proposed modifications will have no impact on the existing tower structure itself or the radiofrequency emissions as the proposed modifications only consist of the addition of one new generator within the grade-level equipment compound. Thus, AT&T respectfully requests a waiver from submission of information relating to the existing tower structure or the radio-frequency emissions.

Please accept this letter as notification pursuant to R.C.S.A. § 16-50j-73 for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-73. In accordance with R.C.S.A.

§ 16-50j-73, a copy of this letter and enclosure are being sent to Jeffrey Caggiano, City of Bristol Mayor, Robert Flannagan, City of Bristol Planner, Thomas Damon Smith, Code Enforcement Officer – P&Z Official, and Property and Tower Owners as stated above. Certification of Service is enclosed as Attachment 3.

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

Very truly yours

*Catherine Conklin*

Catherine Conklin, Site Acquisition Specialist  
General Dynamics Wireless Services  
4603 Kemper Street  
Rockville, MD 20853  
301-266-0258  
[catherine.conklin@gdit.com](mailto:catherine.conklin@gdit.com)

**GENERAL DYNAMICS**  
Information Technology

CC:

Jeffrey Caggiano, City of Bristol Mayor  
Bristol City Hall  
111 North Main Street, 3<sup>rd</sup> Floor  
Bristol, CT 06010  
860-584-6250

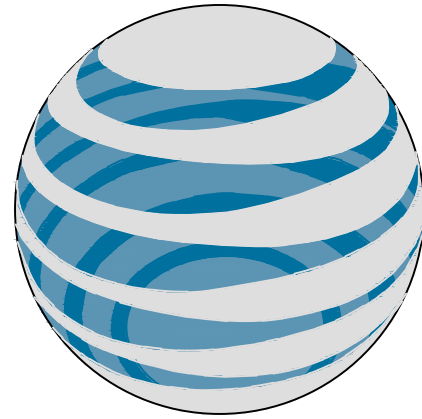
Robert Flannagan, City of Bristol Planner  
Bristol City Hall  
111 North Main Street  
Bristol, CT 06010  
860-584-6225

Thomas Damon Smith, Code Enforcement Officer – P&Z Official  
Bristol City Hall  
111 North Main Street  
Bristol, CT 06010  
860-584-6219

Connecticut Light & Power Company, Property Owner  
107 Selden Street  
Berlin, CT 06037  
203-665-5000

American Tower, Tower Owner via email

# ATTACHMENT 1



# at&t

**BRISTOL**  
**FA#: 10035029**

AMERICAN TOWER: SITE # 302500

**GENERATOR REPLACEMENT PROJECT**  
**50KW GENERAC DIESEL GENERATOR**

**790 WILLIS STREET**  
**BRISTOL, CT 06010**



**GENERAL DYNAMICS**  
Information Technology



**GEOSTRUCTURAL**  
PO BOX 2621, BOISE, ID 83701  
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THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO THE CLIENT NAMES IS STRICTLY PROHIBITED.



DATE SIGNED: 7/6/24

SITE INFORMATION:  
**BRISTOL**  
**10035029**  
**GENERATOR REPLACEMENT PROJECT**  
790 WILLIS STREET  
BRISTOL, CT 06010

JURISDICTION USE:

SHEET TITLE:  
**TITLE SHEET**

SHEET NUMBER:  
**T-1**

**SITE INFORMATION:**

SITE ADDRESS: 790 WILLIS STREET  
BRISTOL, CT 06010

COUNTY: HARTFORD

COORDINATES: 41.649075° / -72.9480269° (FOR NAVIGATION ONLY)

PROPERTY LANDLORD OR OWNER: CONN LIGHT + POWER CO

TAX ID #: 06-8A

ZONING: ---

OCCUPANCY GROUP: U - UNMANNED

CONSTRUCTION TYPE: II-B

POWER COMPANY: EVERSOURCE

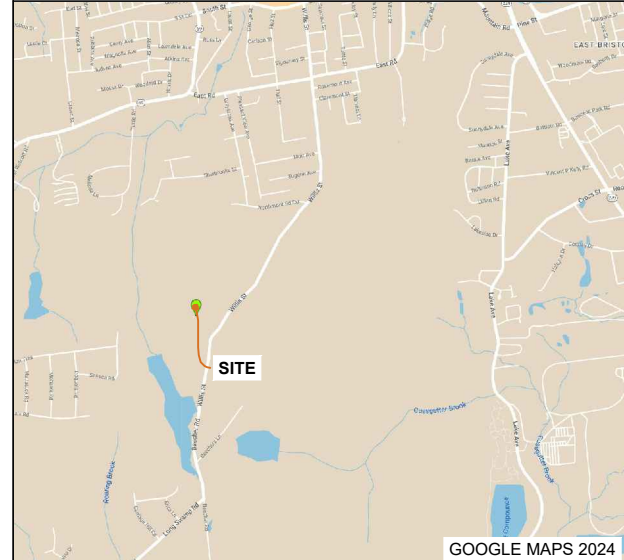
FLOOD ZONE: X

A.D.A. COMPLIANCE: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION

**VICINITY MAP:**



**AREA MAP:**



**CODE COMPLIANCE:**

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

INTERNATIONAL BUILDING CODE (IBC) 2021

NATIONAL ELECTRICAL CODE (NEC) 2020

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 13,30,37,58,70,72,110,111

AMERICAN CONCRETE INSTITUTE (ACI) 318

AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)

TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222

TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 607

**DO NOT SCALE DRAWINGS:**

CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS, CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR THE SAME.

**CONTACT INFORMATION:**

APPLICANT: AT&T MOBILITY  
1375 CAMINO REAL STE 120  
SAN BERNARDINO, CA 92408  
PHONE: 951.534.8967

PROJECT MANAGER: GENERAL DYNAMICS WIRELESS SERVICES, LLC.  
PHONE: 318.833.4864  
CONTACT: KEITH JEFFREYS

SITE ACQUISITION MANAGER: GENERAL DYNAMICS WIRELESS SERVICES, LLC.  
CONTACT: RITA BAILEY  
PHONE: 502.528.9446  
EMAIL: RITA.BAILEY@GDIT.COM

ARCHITECTURE & ENGINEERING: GEOSTRUCTURAL, LLC.  
PO BOX 2621  
BOISE, ID 83701  
PHONE: 530.539.4787  
CONTACT: DON GEORGE

**APPROVALS :**

|                      |       |       |
|----------------------|-------|-------|
| AT&T MANAGER         | _____ | _____ |
| CONSTRUCTION MANAGER | _____ | _____ |
| SITE ACQ. MANAGER    | _____ | _____ |
| PROPERTY OWNER       | _____ | _____ |
| LANDLORD             | _____ | _____ |

**SCOPE OF WORK:**

INSTALL (1) ARTICLE 702 OPTIONAL STANDBY DIESEL GENERATOR (GENERAC SD050) WITH UL-142 BASE FUEL TANK ON CONCRETE PAD AND 200A ATS / CAMLOCK (GENERAC TAS200) WITHIN COMPOUND NEAR EXISTING AT&T EQUIPMENT SHELTER. REMOVE INACTIVE GENERATOR AND CONCRETE PAD. INSPECT, TEST, AND REUSE / REPLACE EXISTING ELECTRICAL LINES.

INTEGRATE NEW GENERATOR WITH EXISTING SERVICE.

NOTE: NO CHANGES OR ALTERATIONS TO THE TOWER, MOUNTS, ANTENNAS, FEEDLINES, ETC. IS PROPOSED AS A PART OF THIS SCOPE OF WORK.

**DIG LINE:**

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 CONTRACTOR TO VERIFY ALL UTILITIES, PIPELINES AND OTHER STRUCTURES SHOWN OR NOT SHOWN ON THESE PLANS.

ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER AND ENGINEER AT THE CONTRACTOR'S EXPENSE.



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| A-2              | ENLARGED SITE PLAN          |
| S-1              | GENERATOR PAD DETAILS       |
| S-2              | GENERAL STRUCTURAL DETAILS  |
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| E-3              | ELECTRICAL DETAILS          |
| E-4.0 <--> E-4.2 | GENERATOR SPECIFICATIONS    |
| E-5.0            | ATS SPECIFICATIONS          |
| E-5.1            | CAM-LOCK BOX SPECIFICATIONS |

**NOTES TO SUBCONTRACTOR:**

1. THE GENERAL SUBCONTRACTOR MUST VERIFY ALL DIMENSIONS, CONDITIONS AND ELEVATIONS BEFORE PROCEEDING WITH THE WORK. ALL DISCREPANCIES SHALL BE RESOLVED 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. 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 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.

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.

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 CONSTRUCTION MANAGER.

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. PERMITS: THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND INCURRING THE COST OF ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATES, ETC.

15. 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.

16. 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 LOCATE SERVICE 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.

**REQUIRED SPECIAL INSPECTIONS:**

1. PER IBC 1705.4 SPECIAL INSPECTION OF MASONRY. (IF REQUIRED)

**GENERAL PROJECT NOTES:**

1. THIS PROPOSAL IS FOR THE ADDITION OF A NEW GENERATOR ON A NEW CONCRETE PAD TO AN EXISTING UNMANNED TELECOMMUNICATIONS FACILITY CONSISTING OF AN EQUIPMENT SHELTER/PLATFORM 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)
- k. NEC (NATIONAL ELECTRICAL CODE)

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.

**ELECTRICAL NOTES:**

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

**B. WIRING/CONDUIT**

1. PROVIDE PULL BOXES AND JUNCTION BOXES WHERE SHOWN OR AS REQUIRED BY CODE SUCH THAT NO MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (360 DEGREES TOTAL) EXIST IN A CONDUIT RUN.

2. ALL POWER AND CONTROL/INDICATION WIRING SHALL BE TYPE THHN/THWN 600V 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 12" 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 PULL 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 (LIQUIDTITE) 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 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 AT ANY POINT OF CONNECTION. CONNECTIONS TO VARIOUS METALS SHALL BE OF A TYPE AS TO PREVENT A GALVANIC OR CORROSIVE REACTION. AREA SHALL BE REPAINTED FOLLOWING BONDING.

3. ANY METALLIC ITEM WITHIN 6' OF ANY EQUIPMENT OR METALLIC INFRASTRUCTURE (RACKS, CABLE TRAY.. ETC.) OR GROUND CONDUCTORS MUST BE CONNECTED TO THE GROUNDING SYSTEM PER AT&T STANDARDS.

4. EXTERIOR, ABOVE GRADE GROUND CONNECTIONS SHALL BE FURNISHED WITH A LIBERAL PROTECTIVE COATING OF ANTI-OXIDATION 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 THE 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 AND STRAIGHT AS PRACTICAL.

7. PROVIDE ALL ELECTRICAL SYSTEM AND EQUIPMENT GROUNDS AS REQUIRED BY THE CURRENT EDITION OF THE NATIONAL ELECTRIC CODE, THE CURRENT EDITION OF THE NATIONAL ELECTRICAL SAFETY CODE AND AT&T STANDARDS. BONDING JUMPERS WITH APPROVED GROUND FITTINGS SHALL BE INSTALLED AT ALL RACEWAYS, EQUIPMENT ENCLOSURES, PULL BOXES, ETC. TO MAINTAIN GROUND CONTINUITY WHERE REQUIRED BY CODE.

8. ALL BURIED EQUIPMENT GROUND CONDUCTORS SHALL BE #2 AWG BARE, TINNED, SOLID 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 RESISTANCE TO GROUND (MAX. 5 OHMS).

3. AN ELECTRICAL INSPECTION SHALL BE MADE BY AN 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.



**GENERAL DYNAMICS**  
Information Technology



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PO BOX 2621, BOISE, ID 83701  
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WWW.GEOSTRUCTURAL.COM

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DATE SIGNED: 7/6/24

SITE INFORMATION:  
**BRISTOL**  
  
**10035029**  
  
**GENERATOR REPLACEMENT PROJECT**  
  
790 WILLIS STREET  
BRISTOL, CT 06010

JURISDICTION USE:

SHEET TITLE:  
**GENERAL NOTES**

SHEET NUMBER:  
**N-1**

**GENSET USE AND INFORMATION:**  
 THE PROPOSED GENERAC SD050 GENSET:  
 \* IS RATED AT 86 HP AT MAXIMUM RATED kW OUTPUT,  
 \* IS INSTALLED WITH AN ABOVE-GROUND DOUBLE-WALL SECONDARY CONTAINMENT BASE FUEL TANK WITH 190 USABLE (200 MAX) GALLONS OF FUEL,  
 \* USES ULTRA LOW SULFUR DIESEL FUEL (15 ppm SULFUR),  
 \* IS LIMITED TO 100 HOURS PER YEAR OF NON-EMERGENCY USE (TESTING & MAINTENANCE),  
 \* IS INSTALLED WITH A LEVEL 2 ACOUSTIC ENCLOSURE, WHICH BUFFERS SOUND OUTPUT TO A MAXIMUM OF 73 dB AT 7 METERS (~23 FEET),  
 \* IS COMPLIANT WITH APPLICABLE AIR QUALITY REGULATIONS.

**CUMULATIVE VOLUME CALCULATIONS:**  
 THE PHYSICAL DIMENSIONS OF THE PROPOSED GENERATOR w/ ENCLOSURE AND BASE FUEL TANK ARE LESS THAN 250 CU. FT. IN VOLUME.  
 BASE FUEL TANK = 106.1"x38"x29" = 67.7 CU. FT.  
 GENERATOR BODY w/ ENCLOSURE = 94.8"x61.9"x38" = 129.1 CU. FT.  
 TOTAL CUMULATIVE VOLUME OF GENSET = 67.7 + 129.1 = 196.8 CU. FT.

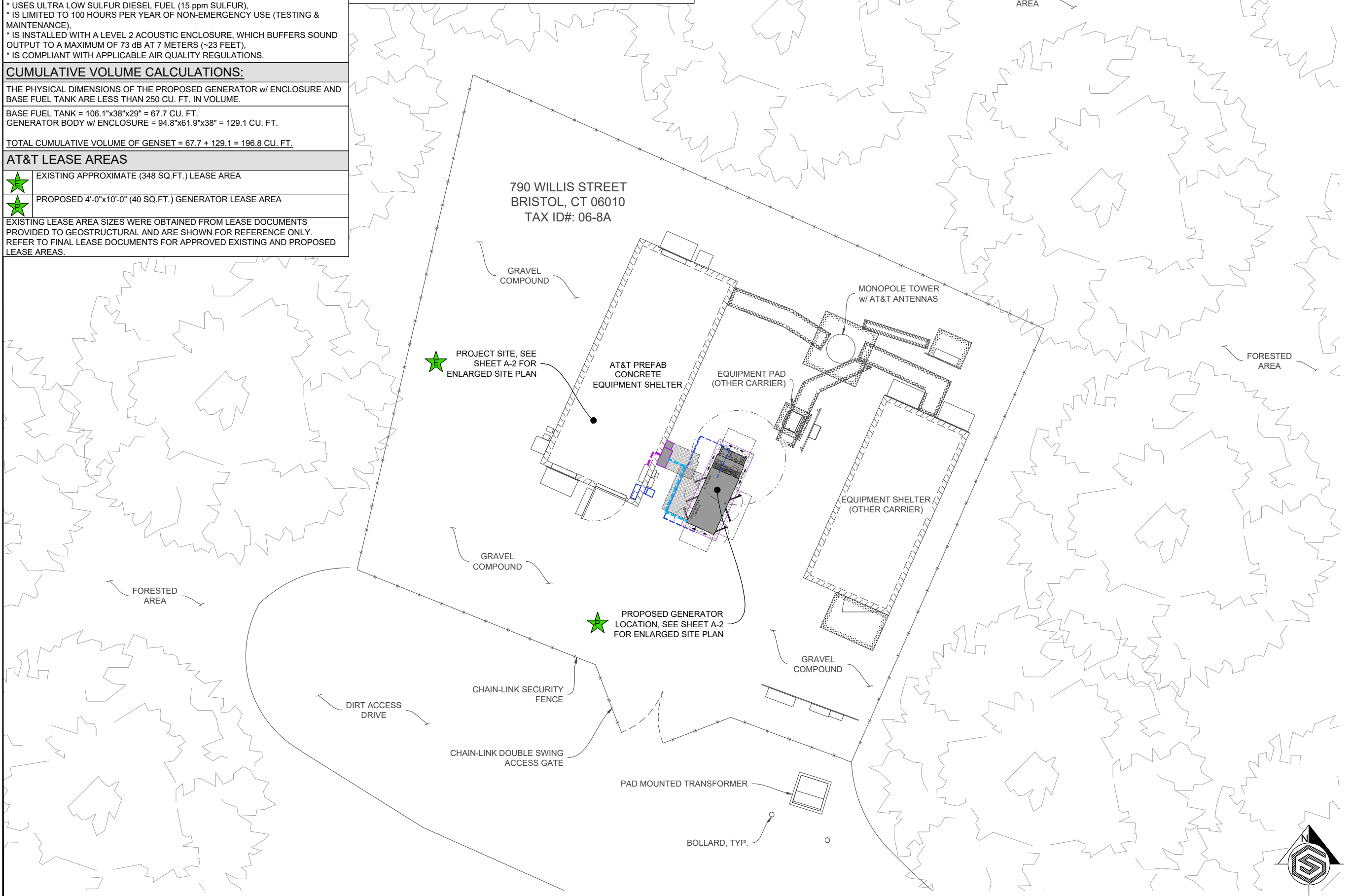
**AT&T LEASE AREAS**

|   |  |
|---|--|
| ★ | EXISTING APPROXIMATE (348 SQ.FT.) LEASE AREA           |
| ★ | PROPOSED 4'-0"x10'-0" (40 SQ.FT.) GENERATOR LEASE AREA |

EXISTING LEASE AREA SIZES WERE OBTAINED FROM LEASE DOCUMENTS PROVIDED TO GEOSTRUCTURAL AND ARE SHOWN FOR REFERENCE ONLY. REFER TO FINAL LEASE DOCUMENTS FOR APPROVED EXISTING AND PROPOSED LEASE AREAS.

**EXISTING CONDITIONS:**  
 THESE DRAWINGS WERE PRODUCED WITH INFORMATION PROVIDED BY THE CLIENT. LINES, EASEMENTS, AND SETBACKS SHALL BE VERIFIED PRIOR TO START OF CONSTRUCTION. GEOSTRUCTURAL DOES NOT GUARANTEE THE ACCURACY OF SAID PROPERTY LINE, EASEMENTS AND SETBACKS.

**NOTE:**  
 EVERYTHING SHOWN IS EXISTING UNLESS MARKED PROPOSED



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 10035029

**GENERATOR REPLACEMENT PROJECT**

790 WILLIS STREET  
 BRISTOL, CT 06010

JURISDICTION USE:

**SHEET TITLE:**  
 OVERALL  
 SITE PLAN

**SHEET NUMBER:**  
 A-1

**UTILITY NOTE:**

THE UTILITIES AS SHOWN ON THIS SET OF DRAWINGS WERE DEVELOPED FROM RECORD INFORMATION. THE INFORMATION PROVIDED IS IMPLIED NOT INTENDED TO BE A COMPLETE INVENTORY OF THE UTILITIES IN THIS AREA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES (WHETHER SHOWN OR NOT) AND PROTECT SAID UTILITIES FROM ANY DAMAGE CAUSED BY CONTRACTOR'S ACTIVITIES.

**EXISTING CONDITIONS:**

THESE DRAWINGS WERE PRODUCED WITH INFORMATION PROVIDED BY THE CLIENT. LINES, EASEMENTS, AND SETBACKS SHALL BE VERIFIED PRIOR TO START OF CONSTRUCTION. GEOSTRUCTURAL DOES NOT GUARANTEE THE ACCURACY OF SAID PROPERTY LINE, EASEMENTS AND SETBACKS.

**SCOPE OF WORK DETAILS:**

**GENERAL:**

- NEW GENERAC DIESEL GENERATOR PROVIDED BY GENERAL DYNAMICS & INSTALLED BY GENERAL CONTRACTOR. SEE SHEETS E-4.0, E-4.1, E-4.2.
- NEW CONCRETE PAD PROVIDED & INSTALLED BY GENERAL CONTRACTOR. SEE SHEET S-1.
- NEW GENERAC AUTOMATIC TRANSFER SWITCH PROVIDED BY GENERAL DYNAMICS & INSTALLED BY CONTRACTOR. SEE SHEETS S-2, E-5.0, E-5.1.
- CONTRACTOR TO VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL RESTORE & REPAIR ANY DAMAGED AREAS CAUSED BY CONSTRUCTION TO ORIGINAL OR BETTER CONDITION.
- INNER AND OUTER TANK TESTING DOCUMENTATION SHALL BE PROVIDED ONCE TANK IS IN PLACE ON SITE IN ACCORDANCE WITH NFPA 30.
- A CALIBRATION CHART OF PERMANENT AND DURABLE CONSTRUCTION SHALL BE LOCATED AT THE FILL BOX.

**CONDUITS:**

- INSTALL PULL STRING IN EACH CONDUIT.
- (2) NEW OR EXISTING ELECTRICAL CONDUITS WITH CONDUCTORS TO BE INSTALLED FROM NEW GENERATOR TO NEW ATS. CONDUIT PROVIDED AND INSTALLED BY GENERAL CONTRACTOR. SEE SHEETS E-1, E-2.
- (2) NEW OR EXISTING ELECTRICAL CONDUITS WITH CONDUCTORS TO BE INSTALLED FROM NEW GENERATOR TO AC PANEL. CONDUIT PROVIDED & INSTALLED BY GENERAL CONTRACTOR. SEE SHEETS E-1, E-2.
- (1) NEW OR EXISTING ALARM CONDUIT & CABLING PROVIDED & INSTALLED BY GENERAL CONTRACTOR. SEE SHEETS E-1, E-2.

**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. SEE SHEET E-3.

**POWER ROUTING KEYED NOTES:**

- ATS** EXISTING AT&T AUTOMATIC TRANSFER SWITCH TO BE REMOVED AND REPLACED WITH NEW ATS
  - INT** INTERCEPT EXISTING CONDUIT AND CONDUCTORS AT ATS AND RE-ROUTE THROUGH PROPOSED ATS (~10'). COORDINATE PATH WITH CONSTRUCTION MANAGER
  - AC** EXISTING AC LOAD CENTER
  - CON** PROPOSED AT&T UNDERGROUND GENERATOR CONDUIT ROUTE (~20'). CONTRACTOR TO LOCATE EXISTING UTILITIES PRIOR TO EXCAVATION. SEE SHEETS E-1, E-2.
- SEE SHEET E-1 FOR SINGLE LINE DIAGRAM.

**GENERATOR KEYED NOTES:**

- GEN** PROPOSED AT&T 50KW DIESEL GENERATOR w/ SOUND ATTENUATED ENCLOSURE, NORMAL/EMERGENCY TANK VENTING AND BASE FUEL TANK. SEE SHEETS S-1, S-2, E-3.
- 1** FUEL FILL SHALL BE PROVIDED WITH SPILL CONTROL, WITH A SOLID FILL CONNECTION, AND WITH OVERFILL PREVENTION
- 2** FUEL TANK NORMAL AND EMERGENCY VENTS SHALL TERMINATE AT LEAST 12'-0" ABOVE THE ADJACENT GRADE. SEE SHEET S-2.

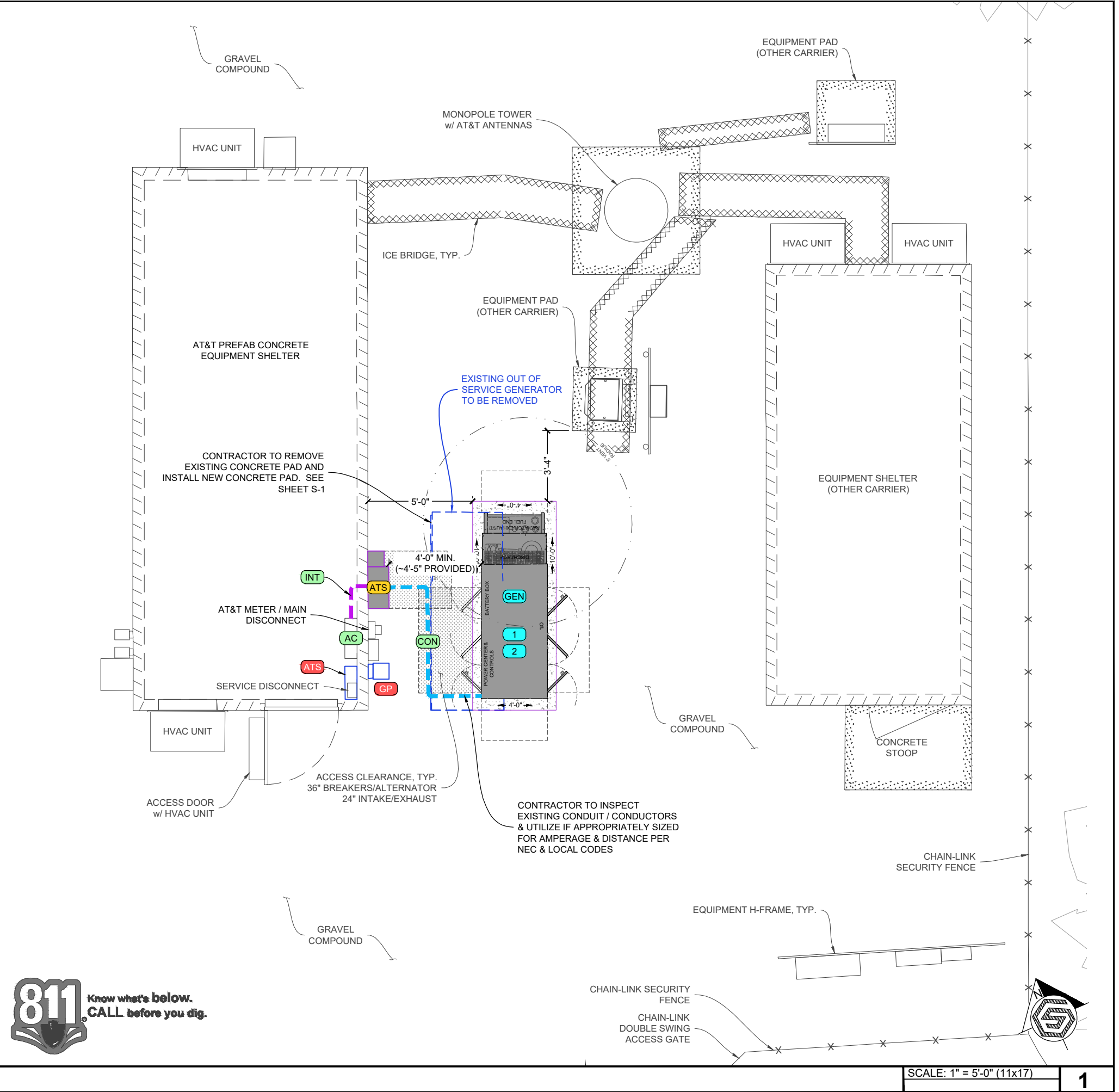
**ATS / EQUIPMENT KEYED NOTES:**

- ATS** PROPOSED ATS w/ CAMLOCK MOUNTED TO SHELTER WALL WITH 36" FRONT CLEARANCE. SEE SHEET S-2.
- GP** EXISTING AT&T GENERATOR PLUG TO BE REMOVED

**NOTE:**

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ENLARGED SITE PLAN



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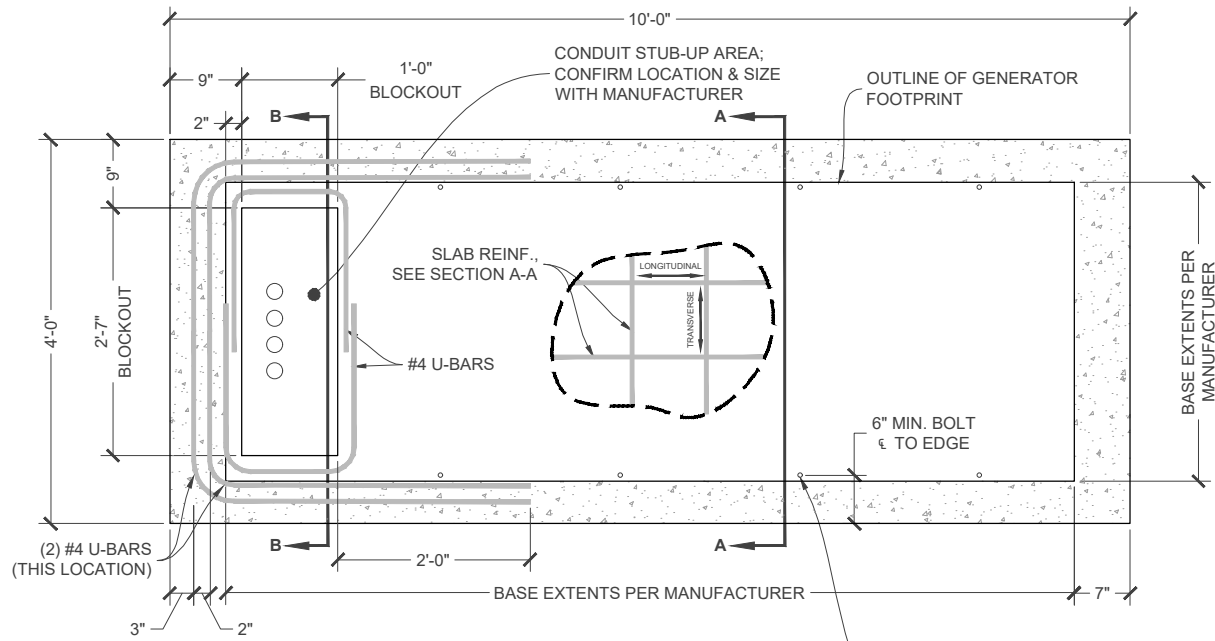
JURISDICTION USE:

SHEET TITLE:  
**ENLARGED SITE PLAN**

SHEET NUMBER:  
**A-2**

SCALE: 1" = 5'-0" (11x17) **1**

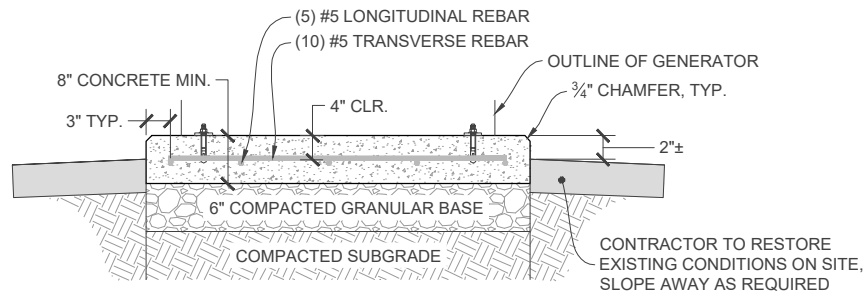




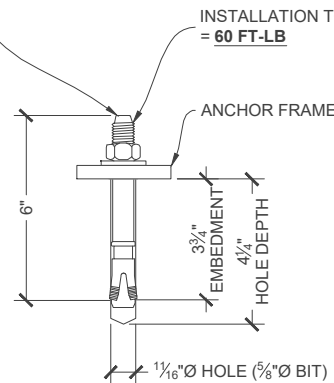
**GENERATOR PAD DETAIL**  
SCALE: 1/2"=1'-0"(11x17) 1"=1'-0" (24x36)

(8) 5/8"Ø x 3 3/4" EMBED HILTI KWIK BOLT TZ2 STAINLESS STEEL EXPANSION ANCHOR (OR APPROVED EQUAL). REFERENCE ICC-ES ESR-4266 REPORT.

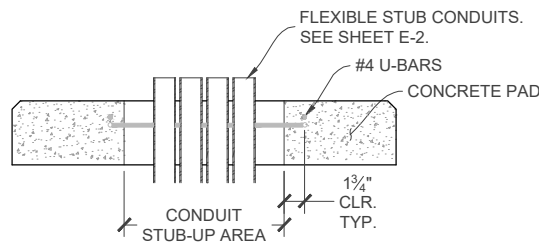
INSTALLATION TORQUE = 60 FT-LB



**GENERATOR PAD - SECTION A-A**  
SCALE: 1/2"=1'-0"(11x17) 1"=1'-0" (24x36)



**TYPICAL ANCHOR**



**GENERATOR PAD - SECTION B-B**

**STRUCTURAL DESIGN NOTES:**

- ALL LOADS DERIVED FROM REQUIREMENTS OF THE IBC 2021, ASCE 7 & ANSI TIA-222.  
BUILDING & COMMUNICATION STRUCTURES: (41.649075° / -72.9480269°)
- WIND LOADS: IBC 2021 & ASCE 7-16  
V = 117 MPH ULTIMATE WIND SPEED  
RISK CATEGORY = II; EXPOSURE CATEGORY = C; TOPOGRAPHIC CATEGORY = 1.  
IMPORTANCE FACTOR = 1.0.
  - SEISMIC LOADS: IBC 2021 & ASCE 7-16  
RISK CATEGORY = II; SITE CLASS = D - DEFAULT.  
S<sub>s</sub> = 0.189; S<sub>1</sub> = 0.054; S<sub>ds</sub> = 0.202; a<sub>p</sub> = 1.0; R<sub>p</sub> = 2.5

**CONCRETE NOTES:**

- PRIOR TO EXCAVATION, CHECK THE AREA FOR UNDERGROUND FACILITIES.
- ALL CONCRETE SHALL BE IN ACCORDANCE WITH CHAPTER 19 OF THE IBC & ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", LATEST EDITION & HAVE THE FOLLOWING PROPERTIES:
  - A MINIMUM 28-DAY COMPRESSIVE STRENGTH (f<sub>c</sub>) OF 4,000 PSI.
  - B CEMENT SHALL BE "LOW-ALKALI" TYPE IIA (MODERATE SULFATE RESISTANCE, AIR ENTRAINING) CONFORMING TO ASTM C150.
  - C MAXIMUM WATER/CEMENT RATIO OF 0.45 AND AIR-ENTRAINED 4% TO 7%.
  - D CONCRETE PROPORTIONING SHALL BE DESIGNED BY AN APPROVED LABORATORY. TOLERANCES IN ACCORDANCE WITH ACI 117. COPIES OF CONCRETE MIX SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO PLACEMENT.
  - E ALL AGGREGATE USED IN CONCRETE SHALL CONFORM TO ASTM C33. USE ONLY AGGREGATES KNOWN NOT TO CAUSE EXCESSIVE SHRINKAGE. MAXIMUM AGGREGATE SIZE TO BE 3/4".
  - F MAXIMUM SLUMP: REFER TO GEOTECHNICAL REPORT WHEN APPLICABLE.
- FORMWORK FOR CONCRETE SHALL CONFORM TO ACI 347. TOLERANCES FOR FINISHED CONCRETE SURFACES SHALL MEET CLASS-C REQUIREMENTS. IN NO CASE SHALL FINISHED CONCRETE SURFACES EXCEED THE FOLLOWING VALUES AS MEASURED FROM NEAT PLAN LINES AND FINISHED GRADES: ± 1/4" VERTICAL, ± 1" HORIZONTAL.
- CHAMFER ALL EXPOSED CORNERS AND FILLET ENTRANT ANGLES 3/4" U.N.O.
- CONCRETE FINISHING: CONCRETE SURFACES SHALL BE FINISHED IN ACCORDANCE WITH ACI. PROVIDE ROUGH FINISH FOR ALL SURFACES NOT EXPOSED TO VIEW AND SMOOTH FINISH FOR ALL OTHERS, U.N.O.
- STEEL REINFORCEMENT AND CONCRETE SHOULD BE PLACED IMMEDIATELY UPON COMPLETION OF THE FOUNDATION EXCAVATION. CONTRACTOR SHALL NOT ALLOW A COLD JOINT TO FORM IN THE CONCRETE. PORTION AT GRADE SHOULD BE FORMED. TEMPORARY CASING MAY BE REQUIRED TO PREVENT CAVING PRIOR TO CONCRETE PLACEMENT.

**REINFORCING STEEL NOTES:**

- ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615. VERTICAL/HORIZONTAL BARS SHALL BE GRADE 60; TIES OR STIRRUPS SHALL BE A MINIMUM OF GRADE 40. ALL REINFORCING STEEL SHALL HAVE 3" (± 3/8") OF CONCRETE COVER, U.N.O.
- ALL BAR BENDS, HOOKS, SPLICES AND OTHER REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ACI 315.
- ALL BARS SHALL BE SPLICED WITH A MINIMUM LAP OF 48 BAR DIAMETERS. LAP SPLICES OF DEFORMED BARS IN TENSION ZONES SHALL BE CLASS-B SPLICES. WELDING OF BARS IS NOT PERMITTED.
- AT ALL CORNERS AND WALL INTERSECTIONS, PROVIDE BENT HORIZONTAL BARS TO MATCH THE HORIZONTAL REINFORCING STEEL.
- PROVIDE VERTICAL DOWELS IN FOOTINGS AND AT CONSTRUCTION JOINTS TO MATCH VERTICAL REINFORCING BAR SIZE AND SPACING.
- ACI-APPROVED PLASTIC-COATED BAR CHAIRS OR PRECAST CONCRETE BLOCKS SHALL BE PROVIDED FOR SUPPORT OF ALL GRADE-CAST REINFORCING STEEL & SHALL BE SUFFICIENT IN NUMBER TO PREVENT SAGGING. METAL CLIPS OR SUPPORTS SHALL NOT BE PLACED IN CONTACT WITH THE FORMS OR THE SUB-GRADE.
- DOWELS AND ANCHOR BOLTS SHALL BE WIRED OR OTHERWISE HELD IN CORRECT POSITION PRIOR TO PLACING CONCRETE. IN NO CASE SHALL DOWELS OR ANCHOR BOLTS BE "STABBED" INTO FRESHLY-POURED CONCRETE.

**FOUNDATION & SOIL NOTES:**

- FOUNDATION DESIGN BASED ON PRESUMPTIVE MINIMUM SOIL PARAMETERS (ALLOWABLE BEARING = 1,500 PSF; ALLOWABLE PASSIVE SLIDING = 100 PSF/FT) IN ACCORDANCE WITH THE IBC.
- THE EXCAVATION SHALL BE INSPECTED PRIOR TO THE PLACEMENT OF CONCRETE AND THE CONTRACTOR SHALL PROVIDE A NOTICE OF INSPECTION FOR THE BUILDING INSPECTOR FOR REVIEW AND RECORDS PURPOSES.
- THE CONTRACTOR SHALL DETERMINE THE MEANS AND METHODS NECESSARY TO SUPPORT THE EXCAVATION DURING CONSTRUCTION.
- ALL FOUNDATIONS TO BE PLACED ON FIRM, UNDISTURBED, INORGANIC MATERIAL. PROOF ROLL SUB-GRADE PRIOR TO PLACING CONCRETE WHERE THE MATERIAL HAS BEEN DISTURBED BY EQUIPMENT. UNACCEPTABLE/DISTURBED MATERIAL SHALL BE OVER-EXCAVATED AND REPLACED WITH "LEAN CONCRETE FILL" OR REPLACED WITH STRUCTURAL BACKFILL.
- STRUCTURAL BACKFILL SHALL BE GRANULAR FREE-DRAINING MATERIAL FREE OF DEBRIS, ORGANICS, REFUSE AND OTHERWISE DELETERIOUS MATERIALS. MATERIAL SHALL BE PLACED IN LIFTS NO GREATER THAN 6" IN DEPTH AND COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED PER ASTM D1557 (MODIFIED PROCTOR).

**MECHANICAL ANCHOR NOTES:**

- HILTI PRODUCTS MUST BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS, AS INCLUDED IN THE PACKAGING.
- CONTRACTOR SHALL AVOID DRILLING HOLES IN VERTICAL/HORIZONTAL REINFORCING BARS.
- HOLES MUST BE WIRE BRUSHED AND BLASTED WITH COMPRESSED AIR PRIOR TO INSTALLATION. TEMPERATURES/METHODS/WORKING TIME/ETC. ARE TO BE IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS.

NOTE: IT IS ACCEPTABLE TO INSTALL AND UTILIZE A PRE-CAST GENERATOR PAD FOUNDATION SO LONG AS THE MINIMUM CONCRETE AND REINFORCING REQUIREMENTS DETAILED HEREIN ARE MET, AND PROVIDED SUB-GRADE SURFACE COMPACTION AND PREPARATION ARE PERFORMED ADEQUATELY IN ACCORDANCE WITH THIS PLAN.



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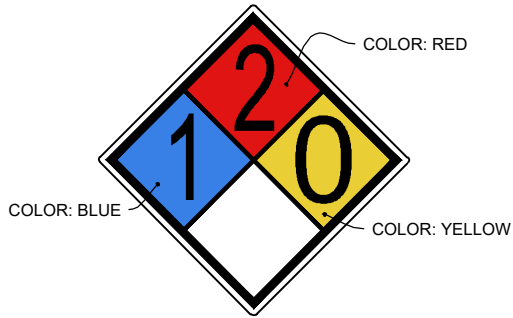
SHEET TITLE:  
**GENERATOR PAD DETAILS**

SHEET NUMBER:  
**S-1**



PLACE ON (2) VISIBLE SIDES OF PROPOSED GENERATOR TANK

15" x 12" SIGN



PLACE ON (2) VISIBLE SIDES OF PROPOSED GENERATOR TANK

15" x 15" SIGN



PLACE ON (2) VISIBLE SIDES OF PROPOSED GENERATOR TANK

11" x 11" SIGN



PLACE ON (2) VISIBLE SIDES OF PROPOSED GENERATOR TANK

6.5" x 3" SIGN

CONTRACTOR TO PROVIDE REQUIRED SIGNAGE FOR ELECTRICAL PANELS, DISCONNECTS, TRANSFER SWITCHES, ETC. PER NATIONAL ELECTRICAL CODE ARTICLE 702.7

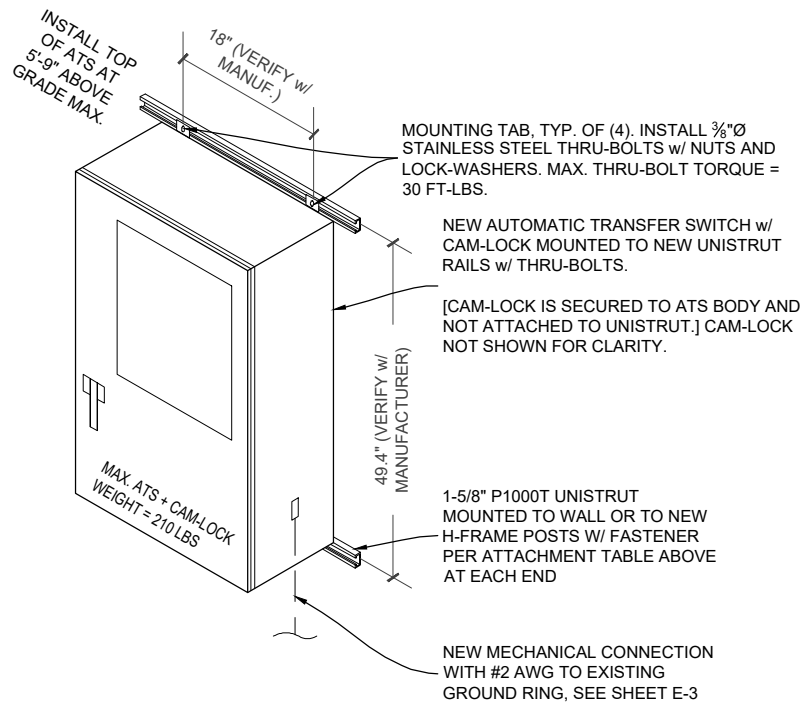
**REQUIRED LABELING & SIGNAGE**

**ATS LOCATION NOTE:**  
ATS LOCATION SHOWN IN PLANS IS THE BEST AVAILABLE BASED ON THE INFORMATION PROVIDED. ALTERNATIVE LOCATION MAY BE REQUIRED AND SHALL BE APPROVED BY CONSTRUCTION MANAGER AND/OR LANDLORD. THIS DETAIL PROVIDES ALTERNATIVE METHODS OF INSTALLATION (NOT ALL DETAILS MAY BE USED).

**UNISTRUT WALL ATTACHMENT:**

| WALL CONSTRUCTION TYPE  | FASTENER  |
|-------------------------|---|
| HOLLOW, AT STUD         | 3/8" DIA. x 2-1/2" EMBED SAE J429 GR.1 LAG SCREW                      |
| CONCRETE BLOCK (HOLLOW) | 3/8" DIA. HILTI HY-270 (ESR-4143) W/ SCREEN, MINIMUM EMBEDMENT 2-3/8" |
| CONCRETE (SOLID)        | 3/8" DIA. HILTI HY-200 (ESR-3187), MINIMUM EMBEDMENT 2-3/8"           |

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



**ATS MOUNTING DETAIL**

**DIESEL TANK CHECKLIST:**

- READILY ACCESSIBLE MANUAL SHUTOFF VALVES SHALL BE INSTALLED ON SUPPLY PIPING AT THE POINT OF USE AND THE TANK (IFC 5003.2.2.1)  
SECONDARY CONTAINMENT-TYPE TANKS SHALL BE UL LISTED, UL-142, AND COMPLY WITH ALL OF THE FOLLOWING REQUIREMENTS; OTHERWISE TRADITIONAL SPILL CONTROL OR SECONDARY CONTAINMENT MEASURES, SUCH AS DIKING, SHALL BE UTILIZED (NFPA 30 22.11.4)
- + CAPACITY OF DIESEL TANK SHALL NOT EXCEED 50,000 GAL.
  - + PIPING CONNECTIONS SHALL BE ABOVE THE LIQUID LEVEL
  - + MEANS SHALL BE PROVIDED TO PROTECT RELEASE OF LIQUID BY SIPHON FLOW.
  - + MEANS TO DETERMINE LIQUID LEVEL IN TANK SHALL BE PROVIDED TO DRIVER.
  - + MEANS TO PREVENT OVERFILLING BY AN ALARM AT 90% CAPACITY AND AUTOMATICALLY STOPPING DELIVERY OF LIQUID TO THE TANK AT 95% CAPACITY.
  - + SPACING BETWEEN ADJACENT TANKS SHALL NOT BE LESS THAN 3'.
  - + TANK SHALL BE PROTECTED AGAINST DAMAGE FROM VEHICLES.
  - + INTERSTITIAL SPACE SHALL HAVE EMERGENCY VENTING.
  - + INTEGRITY OF SECONDARY CONTAINMENT SHALL BE ESTABLISHED.
  - + THE SECONDARY CONTAINMENT SHALL WITHSTAND THE HYDROSTATIC HEAD OF THE MAXIMUM AMOUNT OF LIQUID STORED IN THE PRIMARY TANK.

**TANK LABELING AND PROTECTIONS:**

- THE FOLLOWING SIGNS AND LABELS SHALL BE AFFIXED TO THE TANK.
- + "DIESEL FUEL - NO SMOKING" (IFC 5703.5 & IFC 5003.7.1)
  - + NFPA 704 PLACARD (IFC 5003.5)
  - + EH&S
  - + AT&T MOBILITY SIGN #3
- CRASH PROTECTION COMPLYING WITH IFC 312 SHALL BE PROVIDED (IFC 5003.9.3) (IF APPLICABLE)

**GENERATOR FEATURES:**

- GENERATORS SHALL BE UL 2200 LISTED AND COMPLY WITH NFPA 37 AND NFPA 110. (IFC 1203.1.1)  
INSTALLATIONS SHALL HAVE A LABELED REMOTE MANUAL STOP (NFPA 110 5.6.5.6 & 5.6.5.6.1 AND NFPA 37 9.2.1.1)

**DOUBLE WALL FUEL TANK BASE SPECIFICATION:**

- REF: AT&T 50KW GENERATOR PACKAGE  
UL REGISTRATION NUMBER: MH 18459  
UL 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.
- + MINIMUM ANCHOR QUANTITY PER MANUFACTURER OR THIS PLAN SET; WHICHEVER IS LARGER.
- 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: 2.5 - 5 GALLON SPILL CONTAINMENT WITH ALARM
- + 40% REMAINING FOR ALARM
  - + 20% REMAINING FOR SHUT-DOWN
- FACTORY PRE-SET AT 90% 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.

**NEPA NOTES:**

- CONSTRUCTION, INSTALLATION, MAINTENANCE, & OPERATIONAL TESTING OF EPSS SHALL COMPLY WITH THE LATEST ADOPTED EDITION OF NFPA 110.
- ALL ELECTRICAL WORK SHALL COMPLY WITH LATEST ADOPTED EDITION OF NFPA 70 - NATIONAL ELECTRICAL CODE.

**FUEL TANK NOTES:**

- THE TANK SHALL BE MANUFACTURED WITH THE FOLLOWING:
- INTERSTITIAL ELECTRONICALLY MONITORED RUPTURE BASIN
  - ALARM TO MONITOR THE SPACE BETWEEN THE PRIMARY AND SECONDARY TANK.
  - OVERFILL ALERT TO VISUALLY WARN WHEN THE TANK IS FILLED UPON CAPACITY.
  - OVERSPILL CONTAINMENT AT FILL PORT TO PREVENT SPILL OF FUEL DURING FILLING OPERATIONS.
  - 2.5/5 GALLON OVERSPILL CONTAINMENT W/ LOCKABLE CAP.



**GENERAL DYNAMICS**  
Information Technology



**GEOSTRUCTURAL**  
PO BOX 2621, BOISE, ID 83701  
530.539.4787  
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SHEET TITLE:  
**GENERAL STRUCTURAL DETAILS**

SHEET NUMBER:  
**S-2**

TYP 1

**CONDUIT / WIRE SCHEDULE:**

| NO. | FROM                              | TO                         | WIRES   | GROUND             | CONDUIT SIZE       | FUNCTION  |
|-----|-----------------------------------|----------------------------|---|--------------------|--------------------|---|
| ①   | NORMAL POWER SOURCE               | AUTOMATIC TRANSFER SWITCH  | (3) W/C   | (1) W/C            | (1) W/C            | NORMAL POWER FEEDER TO ATS (CUT BACK EXISTING)  |
| ②   | AUTOMATIC TRANSFER SWITCH         | LOAD CENTER                | (3) W/C   | (1) W/C            | (1) W/C            | POWER FEEDER FROM ATS TO PANELS   |
| ③   | GENERATOR                         | AUTOMATIC TRANSFER SWITCH  | (3) W/C   | (1) W/C            | (1) W/C            | STANDBY POWER FEEDER TO ATS   |
| ④   | AUTOMATIC TRANSFER SWITCH         | GENERATOR                  | (2) W/C   | (1) W/C            | (1) W/C            | START CIRCUIT   |
| ⑤   | LOAD CENTER (DISTRIBUTION CENTER) | GENERATOR                  | (2) W/C<br>(2) W/C  | (1) W/C<br>(1) W/C | (1) W/C<br>(1) W/C | CKT FOR GEN BLOCK HEATER & BATTERY HEATER, CKT FOR BATTERY CHARGER,   |
| ⑥   | GENERATOR                         | THROUGH ATS TO ALARM BLOCK | 12-PAIR 24 AWG OR 2EA 6-PAIR CAT5                         | N/A                | 1"                 | ALARM CABLES (1) 12 PAIR 24 AWG. PROVIDE 24" OF SLACK CABLE. FINAL PUNCH DOWN IS BY AT&T TECH. LABEL ALL WIRES  |
| ⑦   | AUTOMATIC TRANSFER SWITCH         | ALARM BLOCK                | (2) 12-PAIR 24 AWG OR (2) 6-PAIR CAT5<br>(1) 1-PAIR 24AWG | N/A                | 1"                 | ALARM CABLES (1) 12 PAIR 24 AWG (RUN THRU INTERIOR OF SHELTER OR GROUND EQUIPMENT & INTO ALARM BOX). PROVIDE SINGLE PAIR FOR COMMERCIAL POWER FAIL ALARM. PROVIDE 24" OF SLACK CABLE. FINAL PUNCH DOWN IS BY AT&T TECH. LABEL ALL WIRES |
| ⑧   | CAM-LOCK BOX                      | AUTOMATIC TRANSFER SWITCH  | (3) W/C   | (1) W/C            | (1) W/C            | STANDBY POWER FEEDER TO ATS   |

(W/C) = SEE WIRE/CONDUIT SIZING TABLE FOR VALUES

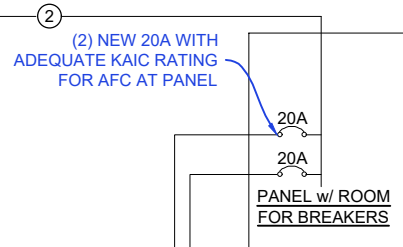
**ATS POLE NOTE:**

NEW ATS/CAMLOCK ARE CONFIGURABLE FOR SINGLE OR THREE PHASE OPERATION. IN SINGLE PHASE INSTALLATIONS, 3-POLE ATS TO BE INSTALLED WITH ONE POLE NOT CONNECTED (UNUSED) AND TO BE CONFIGURED FOR DUAL-POLE USE. NEUTRAL SHALL NOT BE SWITCHED.

NOTE: ALL CONDUCTORS TO BE COPPER UNLESS NOTED OTHERWISE.

NEW 66 BLOCK FOR GENERATOR ALARM CIRCUITS (ON EXISTING TELCO BOARD)

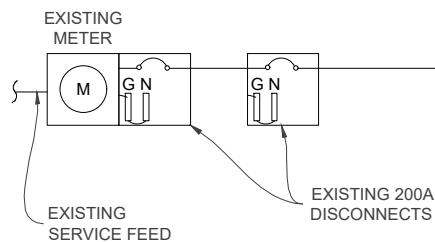
EXISTING 120/240, 1PH, 200A DISTRIBUTION PANEL AT EQUIPMENT



EQUIPMENT AREA

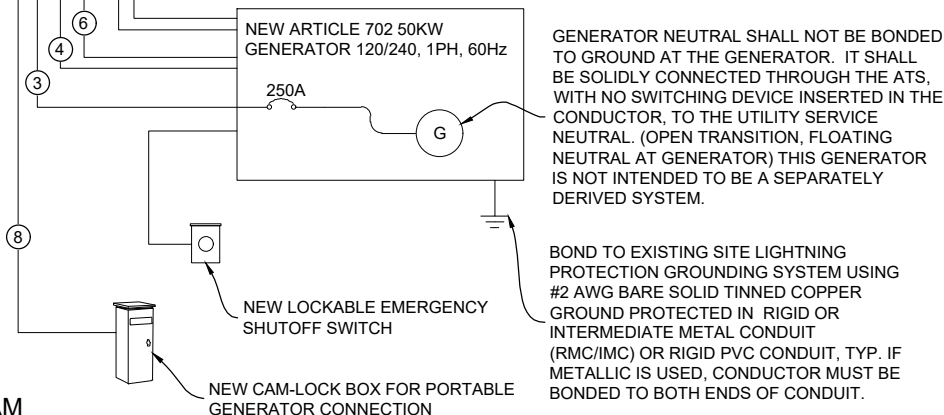
NEW 120/240, 1PH, 60 Hz 200A NEMA 3R ATS RATED 25kA<sub>ic</sub>. SEE ATS POLE NOTE. IF UTILITY SPECIFIED AFC IS GREATER THAN 25kA<sub>ic</sub>, THIS DESIGN WILL NEED REVISIONS.

INTERCEPT EXISTING CONDUIT AND CONDUCTORS PRIOR TO MAIN PANEL AND RE-ROUTE TO NEW ATS



CONTRACTOR SHALL NOT SUBMIT BIDS OR PERFORM CONSTRUCTION WORK ON THIS PROJECT WITHOUT ACCESS TO THE CURRENT COMPLETE SET OF DRAWINGS LISTED IN THE TITLE-SHEET INDEX.

**SINGLE LINE DIAGRAM**



**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

**EXISTING DISTRIBUTION PANEL**

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

SCOPE OF WORK REQUIRES (2) OR (3) PROPOSED SINGLE POLE, 20A BREAKERS, ONE EACH FOR CONDUIT CALLOUT NUMBER 5 ON THE SINGLE LINE DIAGRAM. UTILIZE EMPTY OR SPARE SPACES ON EXISTING PANELBOARD IF POSSIBLE.

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

ALL ELECTRICAL WORK CONDUCTED ON PANELS TO BE VERIFIED WITH CONSTRUCTION MANAGER AND CONDUCTED BY AN APPROVED ELECTRICAL CONTRACTOR LICENSED IN THE STATE.

**PANEL NOTES:**

- CONTRACTOR TO LABEL WIRES WITH P-TOUCH OR SIMILAR LABELS ONLY. ABSOLUTELY NO HANDWRITTEN LABELS.
- CONTRACTOR SHALL PERFORM A POWER STUDY ON EXISTING AC PANEL PRIOR TO INSTALLING, CHANGING, ALTERING, OR REMOVING ANY BREAKER. NO WORK SHALL BE COMPLETED ON AC PANEL WITHOUT PROPER INSPECTOR OR ENGINEER APPROVED DOCUMENTATION CONFIRMING CAPACITY ON SITE. ALL WORK SHALL CONFORM TO NEC VERSION ENFORCED BY A.H.J. AT TIME OF INSTALLATION.
- CONTRACTOR SHALL VERIFY THAT THE MAXIMUM DEMAND FOR ALL CONNECTED EQUIPMENT AT THIS SITE AS CALCULATED PER NEC DOES NOT EXCEED THE GENERATOR OUTPUT CIRCUIT BREAKER RATING. (SEE NOTE #4 ALSO.)
- IF MAXIMUM DEMAND OF GENERATOR OUTPUT CIRCUIT BREAKER RATING AS CALCULATED PER NEC IS CONTINGENT ON THE TWO HVAC UNITS NOT OPERATING CONCURRENTLY, THEN CONTRACTOR SHALL VERIFY THAT THE HVAC LEAD/LAG CONTROLLER IS CONFIGURED TO PREVENT CONCURRENT OPERATION. IF NOT, THEN CONTRACTOR SHALL RECONFIGURE IT AS NEEDED TO PREVENT TRIPPING THE CIRCUIT BREAKER.
- SEE REQUIRED LABELING & SIGNAGE; SHEET S-2.

**WIRE/CONDUIT SIZING: FEEDER MAX 1-WAY LENGTH IN FEET**

| WIRE SIZE  | 250A OCP    | 250A OCP    | 250A OCP     | GROUND WIRE SIZE | CONDUIT SIZE |
|------------|-------------|-------------|--------------|------------------|--------------|
|            | 120/240V 1P | 120/208V 1P | 208Y/120V 3P |                  |              |
| 1/0        | -           | -           | -            | #4               | 1-1/2"       |
| 2/0        | -           | -           | -            | #4               | 2"           |
| 3/0        | -           | -           | -            | #4               | 2"           |
| 4/0        | -           | -           | -            | #4               | 2"           |
| 250 KCMIL  | 284         | 246         | 284          | #4               | 2-1/2"       |
| 300 KCMIL  | 318         | 275         | 318          | #3               | 2-1/2"       |
| 350 KCMIL  | 354         | 307         | 354          | #2               | 2-1/2"       |
| 400 KCMIL  | 383         | 332         | 383          | #2               | 3"           |
| 500 KCMIL  | 436         | 378         | 436          | #1               | 3"           |
| 600 KCMIL  | 469         | 406         | 469          | 1/0              | 3-1/2"       |
| 750 KCMIL  | 521         | 451         | 521          | 2/0              | 3-1/2"       |
| 1000 KCMIL | 586         | 508         | 586          | 3/0              | 4"           |

FEEDER MAXIMUM LENGTH VALUES SHOWN ARE FOR MAX. FEEDER VOLTAGE DROP OF 2.5%.

**MAX. ONE-WAY LENGTH VS. WIRE SIZE FOR 20A CKT, AND NEC REQ'D INCREASED GROUND WIRE SIZE - BELOW GROUND**

| WIRE SIZE | DISTANCE     | GROUND WIRE SIZE | CONDUIT SIZE |
|-----------|--------------|------------------|--------------|
| #12       | 0 - 51 FT    | #12              | 1"           |
| #10       | 52 - 85 FT   | #10              | 1"           |
| #8        | 86 - 130 FT  | #8               | 1"           |
| #6        | 131 - 203 FT | #6               | 1"           |

FOR LONG RUNS, PER NEC 300.3(B)(1), FOR CONDUCTORS 1/0 AND LARGER, CONTRACTOR MAY ELECT TO INSTALL EQUIVALENT SETS OF PARALLEL CONDUCTORS (UPSIZED GROUND WIRE AND CONDUIT ACCORDINGLY). SMALLER CONDUCTORS REQUIRING UPSIZING MUST BE REPLACED w/ ADEQUATELY SIZED LARGER CONDUCTORS.



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DATE SIGNED: 7/6/24

SITE INFORMATION:

BRISTOL

10035029

GENERATOR REPLACEMENT PROJECT

790 WILLIS STREET  
BRISTOL, CT 06010

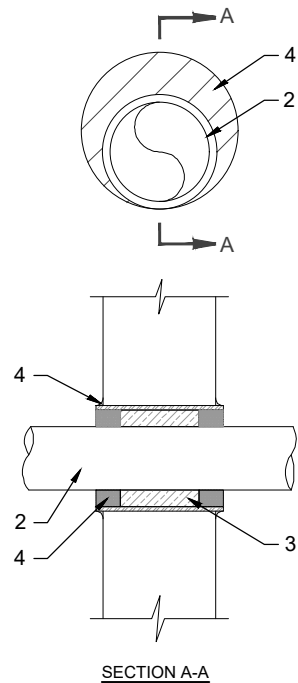
JURISDICTION USE:

SHEET TITLE:

ELECTRICAL DETAILS

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

- 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 9CATZ) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
- THROUGH PENETRATIONS : ONE METALLIC PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE ANNULAR SPACE SHALL BE MINIMUM 0", (POINT CONTACT) TO MAXIMUM 1-3/8". THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR CONDUITS MAY BE USED:
  - A. STEEL PIPE-NOMINAL 6" DIAMETER (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL PIPE
  - B. IRON PIPE-NOMINAL 6" DIAMETER (OR SMALLER) CAST OR DUCTILE IRON PIPE.
  - C. CONDUIT - NOMINAL 4" DIAMETER (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR NOMINAL 3-1/2" DIAMETER (OR SMALLER) STEEL CONDUIT.
- PACKING MATERIAL: MINIMUM 6" THICKNESS OF MIN 4.0 PCF MINERAL WOOL BATTING INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
- FILL, VOID, OR CAVITY MATERIAL\*: SEALANT: MINIMUM 1/4" THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR AND WITH BOTH SURFACES OF WALL. AT THE POINT CONTACT LOCATION BETWEEN PIPE AND CONCRETE, A MINIMUM 1/2" DIAMETER BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE CONCRETE/PIPE INTERFACE ON THE TOP SURFACE OF FLOOR AND ON BOTH SURFACES OF WALL. W-RATING APPLIES ONLY WHEN CP601S OR CP604 SEALANT IS USED.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. : CP601S, CP604, CP606, OR FS-ONE SEALANT.

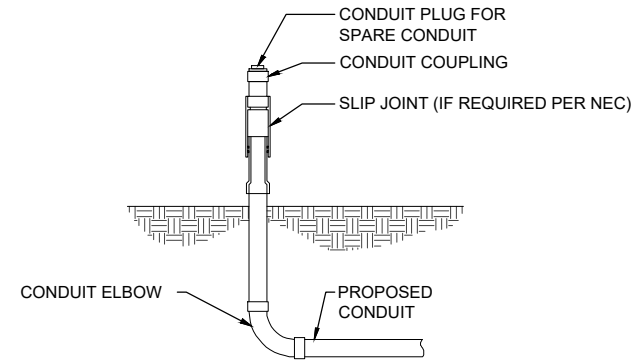
\* BEARING THE UL CLASSIFICATION MARK

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.

OUTER WALL PENETRATION DETAIL (IF APPLICABLE)

**CONDUIT NOTES:**

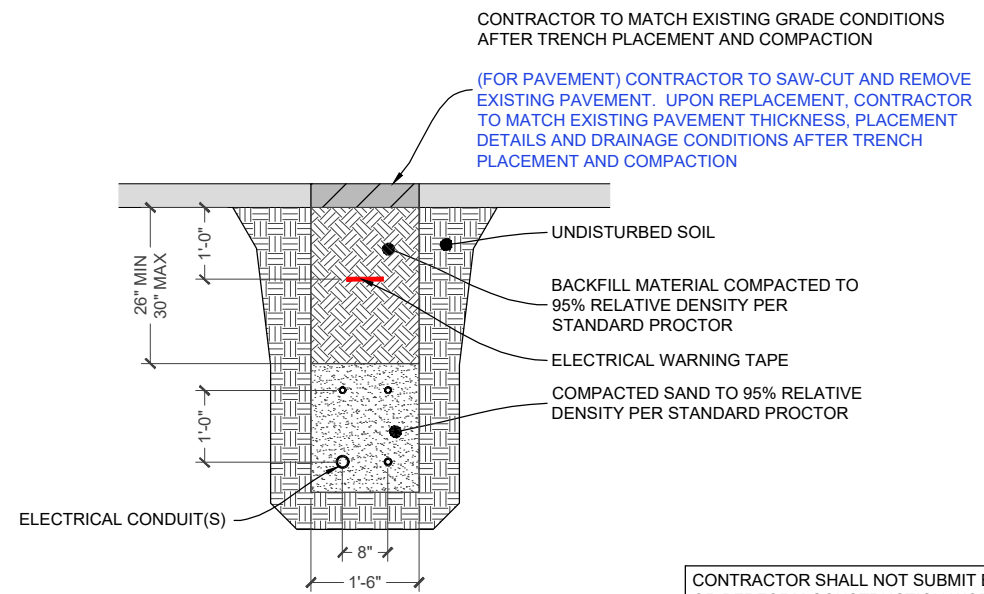
- VERIFY WIRE AND CONDUIT QUANTITY & SIZES WITH GENERATOR MAKE & MODEL # PRIOR TO INSTALLATION. VERIFY ELECTRICAL REQUIREMENTS WITH LOCAL UTILITY PROVIDER.
- ALL CONDUIT ABOVE GRADE OR IN AREAS OF HIGH TRAFFIC SHALL BE SCH 80 PVC.
- PROVIDE SCH 40 PVC CONDUIT BELOW GRADE EXCEPT AS NOTED BELOW.
- PROVIDE SCH 80 PVC CONDUIT AND ELBOWS AT STUB UP LOCATIONS (I.E. SERVICE POLE, BTS EQUIPMENT, ETC.)
- INSTALL UTILITY PULLBOXES PER NEC.



SLIP JOINT DETAIL (IF APPLICABLE)

**CONDUIT NOTES:**

- VERIFY WIRE AND CONDUIT QUANTITY & SIZES WITH GENERATOR MAKE & MODEL # PRIOR TO INSTALLATION. VERIFY ELECTRICAL REQUIREMENTS WITH LOCAL UTILITY PROVIDER.
- ALL CONDUIT ABOVE GRADE OR IN AREAS OF HIGH TRAFFIC SHALL BE SCH 80 PVC.
- PROVIDE SCH 40 PVC CONDUIT BELOW GRADE EXCEPT AS NOTED BELOW.
- PROVIDE SCH 80 PVC CONDUIT AND ELBOWS AT STUB UP LOCATIONS (I.E. SERVICE POLE, BTS EQUIPMENT, ETC.)
- INSTALL UTILITY PULLBOXES PER NEC.



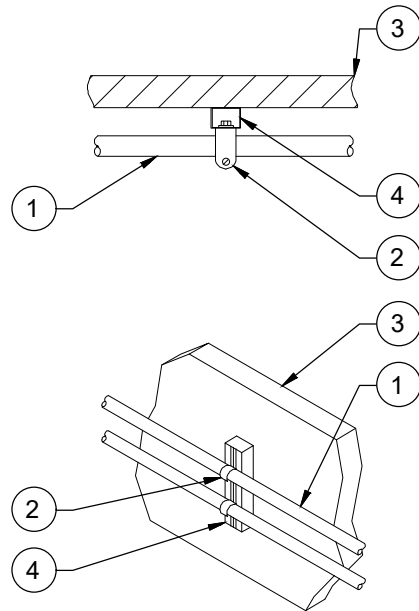
UTILITY TRENCH SECTION (IF APPLICABLE)

CONTRACTOR SHALL NOT SUBMIT BIDS OR PERFORM CONSTRUCTION WORK ON THIS PROJECT WITHOUT ACCESS TO THE CURRENT COMPLETE SET OF DRAWINGS LISTED IN THE TITLE-SHEET INDEX.

**UNISTRUT WALL ATTACHMENT:**

| WALL CONSTRUCTION TYPE  | FASTENER  |
|-------------------------|---|
| HOLLOW, AT STUD         | 3/8" DIA. x 2-1/2" EMBED LAG SCREW                                      |
| CONCRETE BLOCK (HOLLOW) | 3/8" DIA. HILTI HY-270 (ESR-4143) WITH SCREEN, MINIMUM EMBEDMENT 2-3/8" |
| CONCRETE (SOLID)        | 3/8" DIA. HILTI HY-200 (ESR-3963), MINIMUM EMBEDMENT 2-3/8"             |

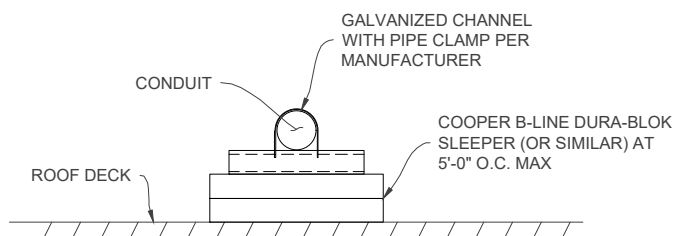
- NOTES:  
 1. USE GALVANIZED OR STAINLESS STEEL HARDWARE FOR WALL MOUNT AND CONNECTION OF CHANNELS  
 2. GC SHALL USE NON-SHRINKING CAULK TO WEATHER SEAL ALL PENETRATIONS INTO OR THROUGH WALL



- 1 CONDUIT (TYP)
- 2 P1119 OR P2558 CLAMP
- 3 EXISTING WALL/CEILING

"UNISTRUT" P1000T. REQUIRED LENGTH BASED ON QUANTITY OF CONDUIT TO BE MOUNTED. INSTALL AT 5'-0" O.C. MAX. W/ FASTENER PER ATTACHMENT TABLE AT EACH END.

CONDUIT WALL MOUNT DETAIL (IF APPLICABLE)



ROOF CONDUIT MOUNTING DETAIL (IF APPLICABLE)



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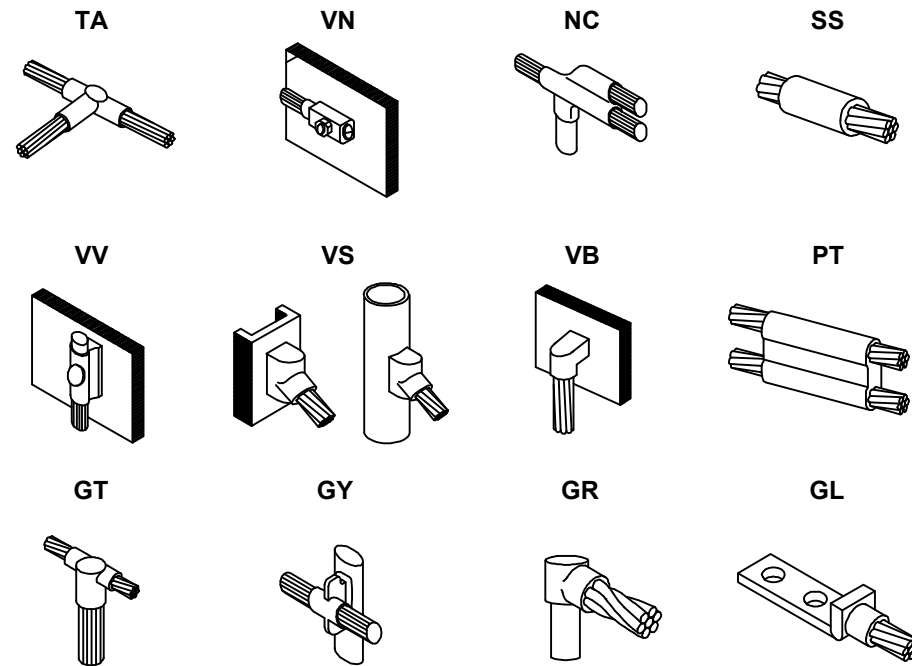
DATE SIGNED: 7/6/24

SITE INFORMATION:  
 BRISTOL  
 10035029  
 GENERATOR REPLACEMENT PROJECT  
 790 WILLIS STREET  
 BRISTOL, CT 06010

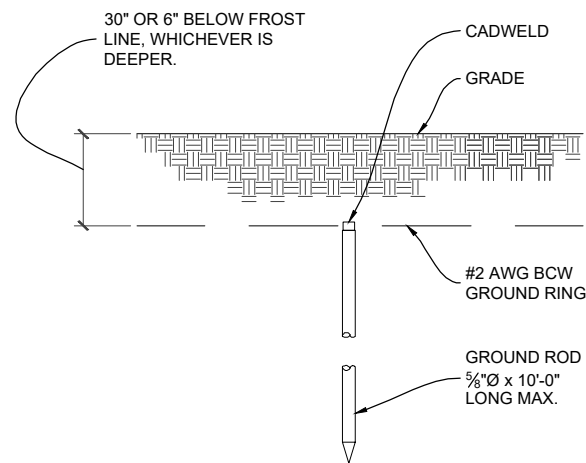
JURISDICTION USE:

SHEET TITLE:  
 ELECTRICAL  
 DETAILS

SHEET NUMBER:  
 E-2



CADWELD DETAILS



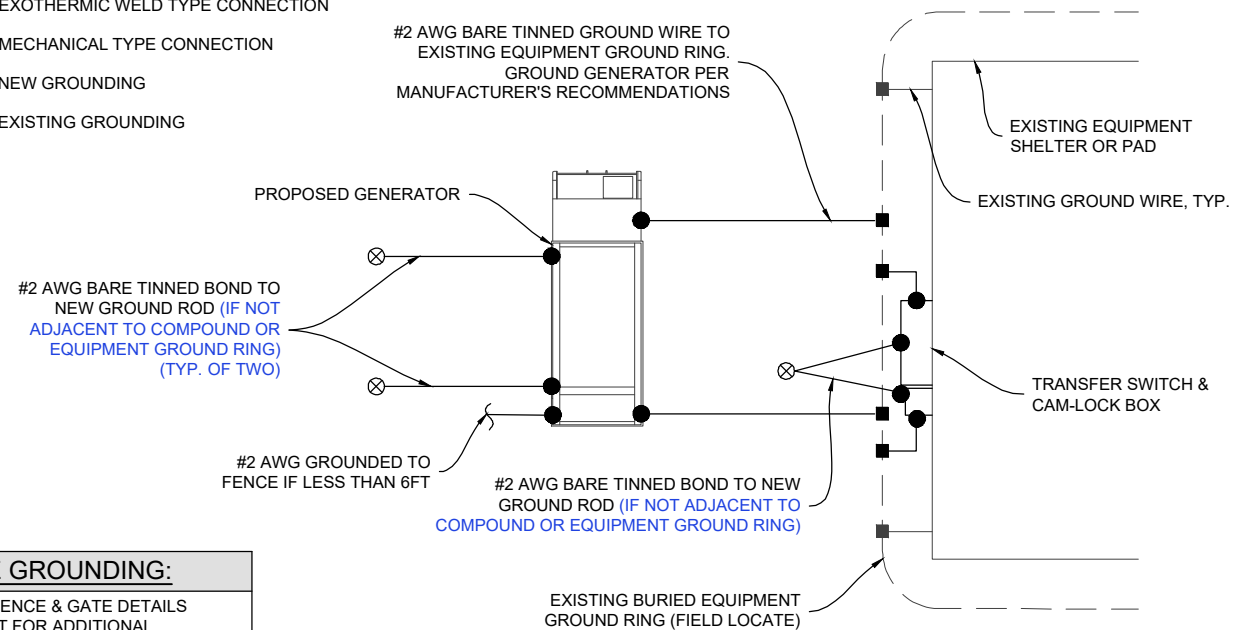
GROUND ROD DETAILS

- GROUND ROD NOTES:**
- 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)
  - PROVIDE (1) GROUND LEAD TO EACH SIDE OF THE GENERATOR

- GROUNDING NOTES:**
- IF MORE THAN 20' FROM EXISTING GROUND RING, INSTALL GROUND ROD (5/8" x 10' SS), ROD SPACING: 10' MIN. TOP OF ROD AND GROUND WIRE TO BE BELOW FROST LINE.
  - CONTRACTOR SHALL COORDINATE INCOMING SERVICES WITH LOCAL UTILITIES PRIOR TO TRENCHING.
  - ALL CONDUCTORS SHALL BE COPPER, 75 DEGREES C RATED, AND CONDUCTOR INSULATION BE THWN OR THHN.
  - ALL TERMINATION SHALL BE LISTED AND IDENTIFIED FOR USE WITH 75°C RATED CONDUCTORS OPERATING AT 75°C.
  - GROUND FAULT PROTECTION REQUIRED FOR UTILITY RECEPTACLES.
  - GENERATOR NEUTRAL SHALL NOT BE GROUNDED AT THE GENERATOR. REFER TO SINGLE LINE DETAIL, SHEET E-1.
  - EQUIPMENT LOCATED OUTSIDE OR EXPOSED TO MOISTURE SHALL BE NEMA 3R RATED.
  - CONTRACTOR SHALL USE SCHEDULE 80 PVC CONDUIT THROUGH CONCRETE AND ABOVE GROUND, UNLESS OTHERWISE NOTED.
  - ALL NEWLY INSTALLED EQUIPMENT SHALL BE RATED "AT 10K AIC" MINIMUM. HIGHER RATINGS SHALL BE REQUIRED WHERE AVAILABLE FAULT CURRENT EXCEEDS THIS VALUE. EXACT FAULT CURRENT AVAILABLE SHALL BE COORDINATED WITH LOCAL UTILITY BASED ON EXACT CONDITIONS (XFMR SIZE, PERCENT IMPEDANCE, LENGTH OF CONDUCTORS, ETC).

**ELECTRICAL SYMBOLS LEGEND**

- EXOTHERMIC WELD TYPE CONNECTION
- MECHANICAL TYPE CONNECTION
- NEW GROUNDING
- - - EXISTING GROUNDING



TYPICAL GROUNDING DIAGRAM

- FENCE GROUNDING:**
- SEE FENCE & GATE DETAILS SHEET FOR ADDITIONAL GROUNDING (IF APPLICABLE)

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SITE INFORMATION:  
**BRISTOL**  
**10035029**  
**GENERATOR REPLACEMENT PROJECT**  
790 WILLIS STREET  
BRISTOL, CT 06010

JURISDICTION USE:

SHEET TITLE:  
**ELECTRICAL  
DETAILS**

SHEET NUMBER:  
**E-3**

**SD050 | 3.3L | 50 kW**  
**INDUSTRIAL DIESEL GENERATOR SET**  
 EPA Certified Stationary Emergency



**Standby Power Rating**  
 50 kW, 63 kVA, 60 Hz

**Prime Power Rating**  
 45 kW, 56 kVA, 60 Hz



Image used for illustration purposes only



\*Assembled in the USA using domestic and foreign parts  
 \*EPA Certified Prime ratings are not available in the US or its Territories

**Codes and Standards**

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

- UL2200, UL6200, UL1236, UL489, UL142
- CSA C22.2, ULC S601
- BS5514 and DIN 6271
- SAE J1349
- NFPA 37, 70, 99, 110
- NEC700, 701, 702, 708
- NEMA ICS10, MG1, 250, ICS6, AB1
- ANSI C62.41
- IBC 2009, CBC 2010, IBC 2012, ASCE 7-05, ASCE 7-10, ICC-ES AC-156 (2012)

**Powering Ahead**

For over 60 years, Generac has provided innovative design and superior manufacturing.

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

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

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

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

**SD050 | 3.3L | 50 kW**  
**INDUSTRIAL DIESEL GENERATOR SET**  
 EPA Certified Stationary Emergency



**STANDARD FEATURES**

**ENGINE SYSTEM**

- Oil Drain Extension
- Air Cleaner
- Level 1 Fan and Belt Guards (Open Set Only)
- Stainless Steel Flexible Exhaust Connection
- Factory Filled Oil and Coolant
- Radiator Duct Adapter (Open Set Only)
- Critical Exhaust Silencer (Enclosed Units 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

**ELECTRICAL SYSTEM**

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

**ALTERNATOR SYSTEM**

- UL2200 GENprotect™
- 12 Leads (3-Phase, Non 600V)
- Class H Insulation Material
- Vented Rotor
- 2/3 Pitch
- Skewed Stator
- Auxiliary Voltage Regulator Power Winding
- Brushless Excitation
- Sealed Bearing
- Automated Manufacturing (Winding, Insertion, Lacing, Varnishing)
- Rotor Dynamically Spin Balanced
- Amortisseur Winding
- Full Load Capacity Alternator
- Protective Thermal Switch

**GENERATOR SET**

- Internal Genset Vibration Isolation
- Separation of Circuits - High/Low Voltage
- Separation of Circuits - Multiple Breakers
- Wrapped Exhaust Piping
- Standard Factory Testing
- 2 Year Limited Warranty (Standby Rated Units)
- Silencer Mounted in the Discharge Hood (Enclosed Units Only)
- Silencer of Heat Shield

**ENCLOSURE (If Selected)**

- Rust-Proof Fasteners with Nylon Washers to Protect Finish
- High Performance Sound-Absorbing Material (Sound Attenuated Enclosures)
- Gasketed Doors
- Upward Facing Discharge Hoods (Radiator and Exhaust)
- Stainless Steel Lift Off Door Hinges
- Stainless Steel Lockable Handles
- RhinoCoat™ - Textured Polyester Powder Coat Paint

**FUEL TANKS (If Selected)**

- UL 142/ULC S601
- Double Wall Construction
- Vents
- Sloped Top
- Sloped Bottom
- Factory Pressure Tested (2 psi)
- Rupture Basin Alarm
- Electronic and Visual Fuel Level Indication
- Check Valve In Supply and Return Lines
- RhinoCoat™ - Textured Polyester Powder Coat Paint
- Stainless Steel Hardware

**CONTROL SYSTEM**



**Power Zone® 410 Controller**

**Features**

- Programmable Auto Crank
- Selectable Low Speed Exercise
- RS-232 x2
- RS-485 x2
- All-Phase Sensing Digital Voltage Regulator
- On/Off/Manual Switch
- Not in Auto (Flashing Light)
- Emergency Stop
- Modbus® RTU
- CANbus
- Full Range Standby Operation
- Power Factor

- Ruptured Tank Detection
- Auxiliary Shutdown Switch
- Remote Communications
- NFPA110 Module Included (Key Switch, Alarm, E-Stop)
- I²T Function for Full Generator Protection (Contact Factory)

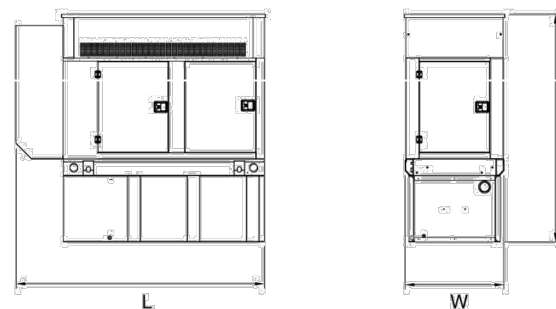
- Battery Voltage
- Alternator Frequency

**Alarms and Warnings**

- Common Alarm Output
- Audible Alarm and Silence

**Full System Status Display**

- Multilingual 128x64 Graphical Display with Heater
- Easy Status View LED Screen
- 3-Phase AC Volts
- 3-Phase Amps
- kW
- Line Power/Gen Power
- Time
- Date
- Run Hours
- Service Reminders
- Fault History (Alarm Log)
- Oil Pressure
- Oil Temperature Indication and Alarm
- Output for Fuel Level High/Low Warning
- Water Temperature
- Water Level
- Fuel Pressure/Level
- Engine Speed



**LEVEL 2 SOUND ATTENUATED ENCLOSURE**

| Run Time - Hours | Usable Capacity - Gal (L) | L x W x H - in (mm)                     | Steel Weight Minimum - lbs (kg) | Steel Weight Maximum - lbs (kg) | Aluminum Weight Minimum - lbs (kg) | Aluminum Weight Maximum - lbs (kg) |
|------------------|---------------------------|---|---------------------------------|---------------------------------|------------------------------------|------------------------------------|
| No Tank          | -                         | 94.8 (2,409) x 38 (965) x 70.1 (1,780)  | 2,389 (1,084)                   | 2,517 (1,142)                   | 2,035 (923)                        | 2,163 (981)                        |
| 12               | 54 (204)                  | 94.8 (2,409) x 38 (965) x 82.5 (1,588)  | 2,638 (1,197)                   | 2,786 (1,255)                   | 2,415 (1,095)                      | 3,445 (1,563)                      |
| 30               | 132 (499)                 | 94.8 (2,409) x 38 (965) x 74.5 (1,893)  | 2,868 (1,301)                   | 2,996 (1,359)                   | 2,645 (1,200)                      | 3,675 (1,667)                      |
| 44               | 190 (719)                 | 94.8 (2,409) x 38 (965) x 86.5 (2,198)  | 3,077 (1,396)                   | 3,205 (1,454)                   | 2,854 (1,295)                      | 3,884 (1,762)                      |
| 49               | 211 (799)                 | 106.0 (2,692) x 38 (965) x 99 (2,516)   | 4,316 (1,958)                   | 4,572 (2,074)                   | 3,870 (1,755)                      | 5,930 (2,690)                      |
| 69               | 300 (1,136)               | 94.8 (2,409) x 38 (965) x 110.6 (2,809) | 3,371 (1,529)                   | 3,499 (1,587)                   | 3,017 (1,368)                      | 3,145 (1,427)                      |

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

SPEC SHEET

1 of 6



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 Information Technology



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**FOR INFORMATION ONLY**

**SITE INFORMATION:**

**BRISTOL**  
 10035029  
**GENERATOR REPLACEMENT PROJECT**  
 790 WILLIS STREET  
 BRISTOL, CT 06010

**JURISDICTION USE:**

**SHEET TITLE:**  
**GENERATOR SPECIFICATIONS**

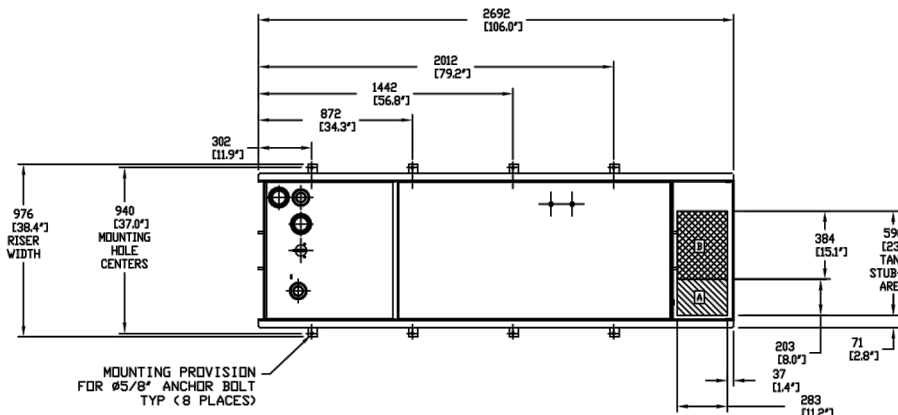
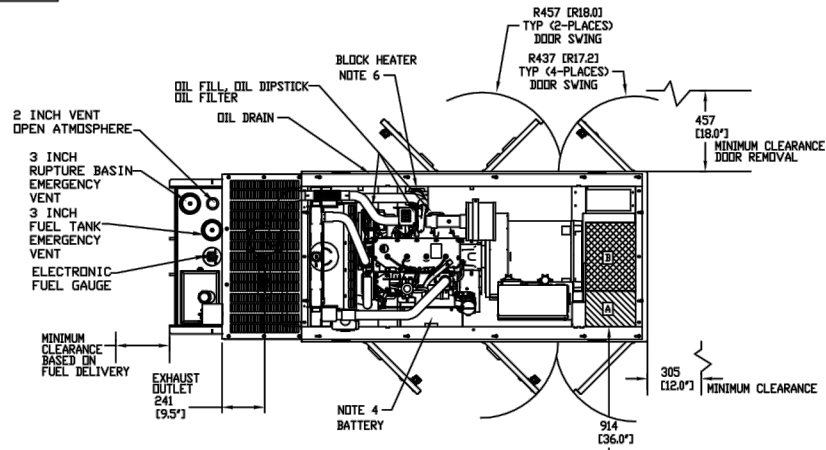
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**E-4.0**

SPEC SHEET

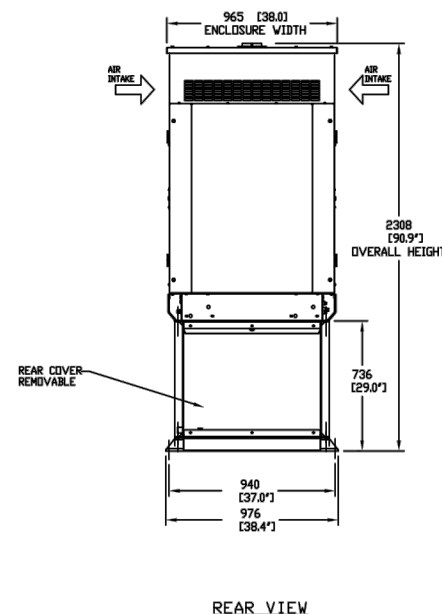
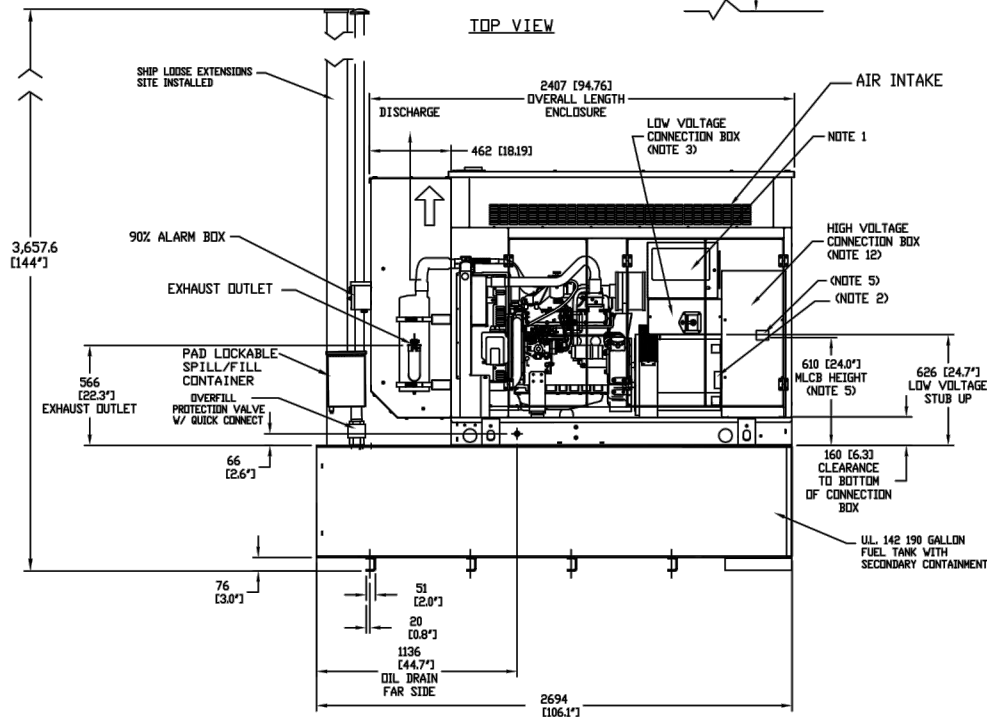
2 of 6

0J7717J



RECOMMENDED ELECTRICAL STUB-UPS (SEE DETAILED VIEW & TOP VIEW)

|  |  |
|--|--|
| (HIGH VOLTAGE STUB UP) AC LOAD LEAD CONDUIT FOR PERMANENT MAGNET EXCITATION CONNECTION BOX                       |  |
| (LOW VOLTAGE STUB UP) TWO DIFFERENT LOCATIONS DEPENDING ON MOUNT LOCATION.<br>-SURFACE MOUNT<br>-BASE/TANK MOUNT |  |



WEIGHT DATA  
 OPEN SET: 796KG (1756LBS)  
 STEEL ENCL: 236KG (520LBS)  
 FUEL TANK DRY: 420KG (924LBS)  
 ESTIMATED DRY WEIGHT: 3,200 Lbs.

- NOTE:
- CONTROL PANEL, (OPTIONAL BATTERY CHARGER INSIDE)
  - 120V, 20A GFCI & 250V, 15A OUTLET
  - CONNECTION POINTS FOR CONTROL WIRES PROVIDED IN THE LOW VOLTAGE CONNECTION BOX (USE LOW VOLTAGE STUB UP AREA)
  - BATTERY (12 VOLT NEGATIVE GROUND SYSTEM)
  - MAIN LINE CIRCUIT BREAKER (MLCB), AC LOAD LEADS CONNECT DIRECTLY TO MLCB. LUG SIZE (1) #350 NCM PER PHASE
  - BLOCK HEATER
  - FUEL LINES ARE PLUMBED TO FRAME FOR UNITS WITH NO BASE TANK. FUEL LINES ARE PLUMBED DIRECTLY TO BASE TANK WHEN SO EQUIPPED
  - CENTER OF GRAVITY AND WEIGHT MAY SHIFT SLIGHTLY DUE TO UNIT OPTIONS
  - IF GENSET IS TO BE INSTALLED ON A BASE/TANK REFER TO BASE/TANK INSTALL FOR MOUNTING FOOTPRINT AND STUB UP INFORMATION.  
 OIL DRAIN = 1/2" NPT COUPLING  
 EXHAUST OUTLET = 2 1/2" O.D.
  - DOORS MUST BE ABLE TO OPEN AT LEAST 90° TO BE REMOVED.
  - AUXILIARY AC CONNECTION FOR UNIT OPTIONS ARE LOCATED IN HIGH VOLTAGE CONNECTION BOX, UNLESS AN OPTIONAL LOAD CENTER IS INSTALLED
  - BOTTOM OF GENERATOR SET MUST BE CLOSED TO PREVENT PEST INTRUSION AND RECIRCULATION OF DISCHARGE AIR AND/OR IMPROPER COOLING AIR FLOW.
  - GENERATOR SET MUST BE INSTALLED SUCH THAT DISCHARGE AIR IS NOT RECIRCULATED.

LEFT SIDE VIEW

REAR VIEW

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|                                 |
|---------------------------------|
| SD50 DIESEL 3.3L TURBOCHARGED   |
| SOUND ATTENUATED LVL2 ENCLOSURE |
| SPCL. 190 GALLON FUEL TANK BASE |

|                              |             |
|------------------------------|-------------|
| <b>GENERAC POWER SYSTEMS</b> |             |
| Waukesha                     |             |
| P.O. BOX 8                   |             |
| WAUKESHA, WIS. 53187         |             |
| FILE NAME                    | 0J7717J.DWG |
| SCALE                        | N/A         |
| FIRST USE                    | D3.3L G16   |
| DWG NO.                      | 0J7717J     |
| SIZE                         | B           |
| REV                          | A           |

INSTALLATION DRAWING

GENERAC 50KW GENERATOR SPECIFICATIONS



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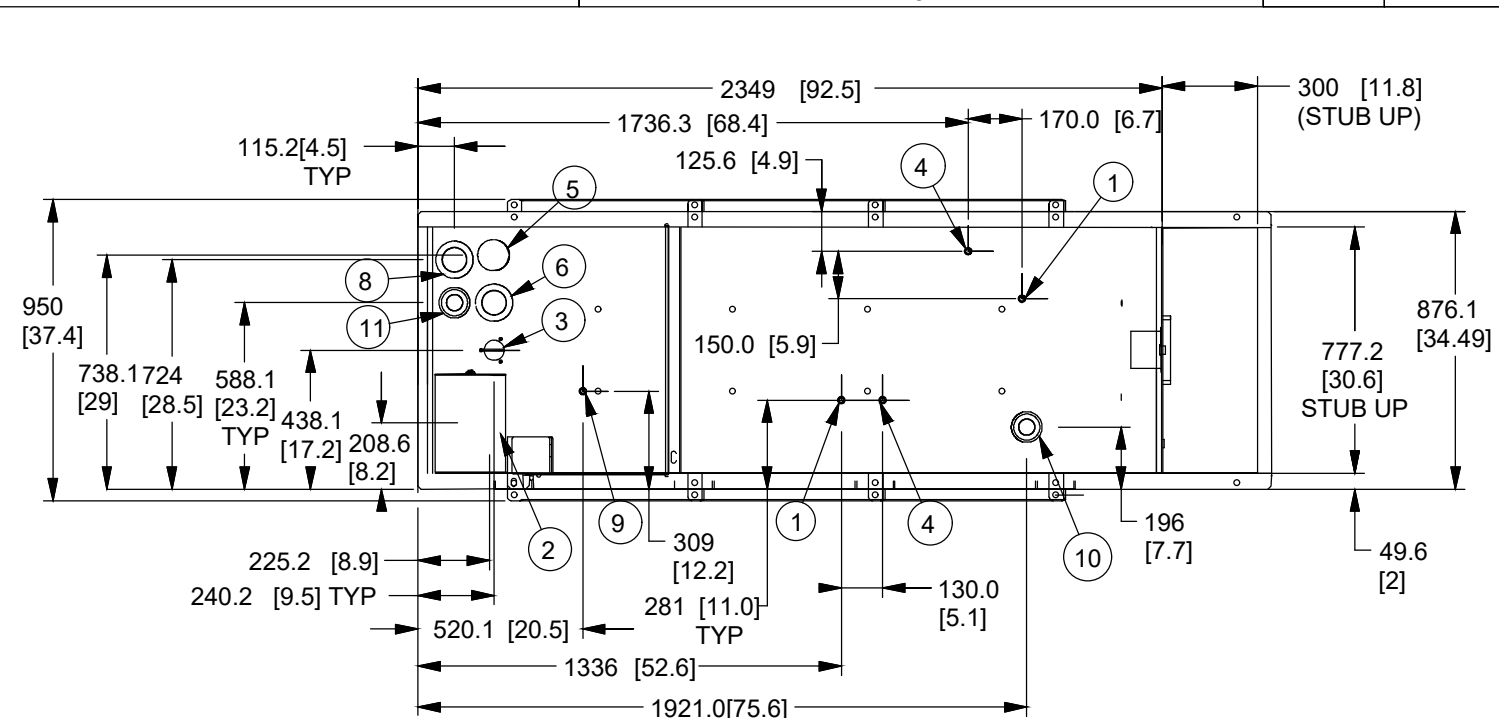
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 10035029  
 GENERATOR REPLACEMENT PROJECT  
 790 WILLIS STREET  
 BRISTOL, CT 06010

JURISDICTION USE:

SHEET TITLE:  
 GENERATOR SPECIFICATIONS

SHEET NUMBER:  
 E-4.1



| I/N | TANK FITTING           | PROVIDING FUNCTION        |
|-----|------------------------|---------------------------|
| 1   | 3/8" NPT COUPLING      | FUEL SUPPLY               |
| 2   | 2" NPT WELD FLANGE     | FUEL FILL                 |
| 3   |                        | MECH/ELEC. FUEL LEVEL     |
| 4   | 3/8" NPT COUPLING      | FUEL RETURN               |
| 5   | 2" NPT WELD FLANGE     | VENT                      |
| 6   | 3" NPT WELD FLANGE     | INNER EMERGENCY VENT      |
| 7   | 1/2" NPT HALF COUPLING | RUPTURE BASIN LEAK SENSOR |
| 8   | 3" NPT WELD FLANGE     | OUTER TANK EMERGENCY VENT |
| 9   | 3/8" NPT COUPLING      | 5 GALLON SPILL/FILL DRAIN |
| 10  | 2" NPT WELD FLANGE     | 90% FUEL SWITCH           |
| 11  | 2" NPT WELD FLANGE     | RUPTURE BASIN ALARM       |

| TANK P/N        | 0L35190ST03 |
|-----------------|-------------|
| TOTAL CAPACITY  | 757 [200]   |
| USABLE CAPACITY | 720 [190]   |
| EST. DRY WEIGHT | 420 [924]   |

CAPACITY SHOWN: LITER [GALLONS]  
WEIGHT SHOWN: KILOGRAMS [POUNDS]  
LENGTH SHOWN: MM [INCH]

NOTE: UL 142 / ULC-S601 LISTED



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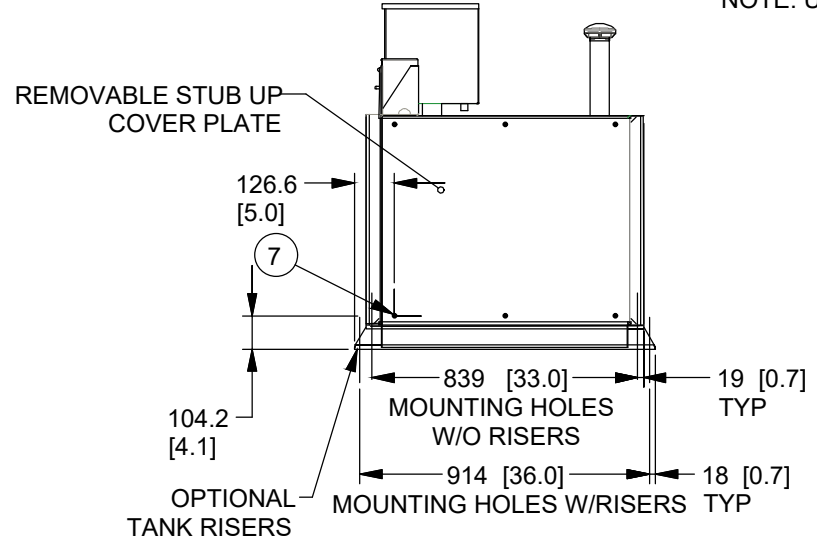
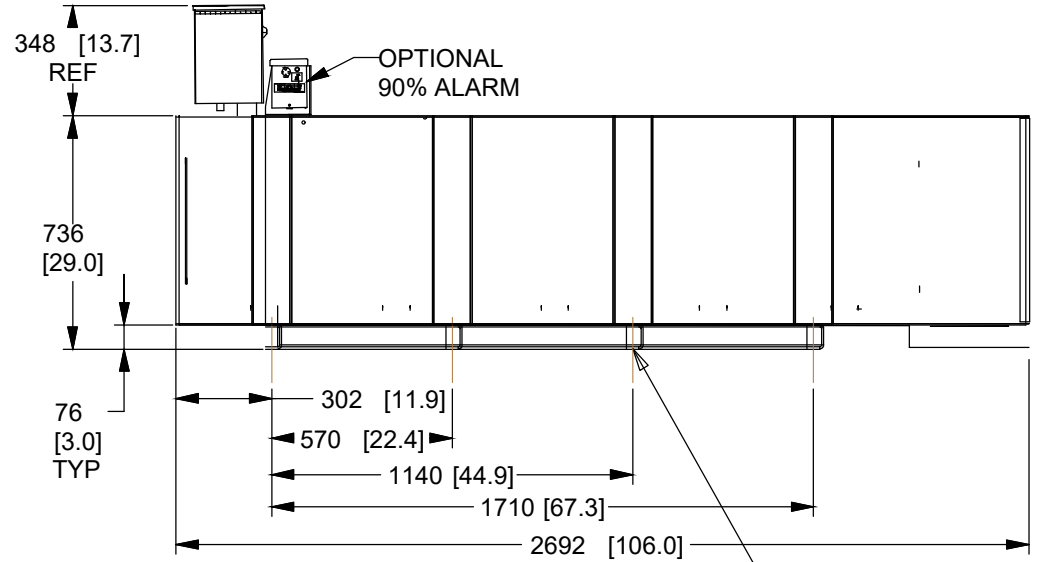
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10035029  
GENERATOR REPLACEMENT PROJECT  
790 WILLIS STREET  
BRISTOL, CT 06010

JURISDICTION USE:

SHEET TITLE:  
GENERATOR SPECIFICATIONS

SHEET NUMBER:  
E-4.2



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ELECTRONICALLY APPROVED INSIDE WINDCHILL

|   |         |             |         |
|---|---------|-------------|---------|
| GENERAC POWER SYSTEMS   |         |             |         |
| TITLE   |         |             |         |
| INSTALL BASE TANK<br>A-GROUP EXTENDED<br>190G (USEABLE) / 200 G (TOTAL) |         |             |         |
| ISSUE DATE: 12/15/17  |         |             |         |
| SIZE  | CAGE NO | DWG NO      | REV     |
| B   | N/A     | 10000026896 | A       |
| SCALE   | 0.050   | WT-KG       | 958.184 |
| SHEET   |         | 1 of 1      |         |

# INSTALLATION DRAWING



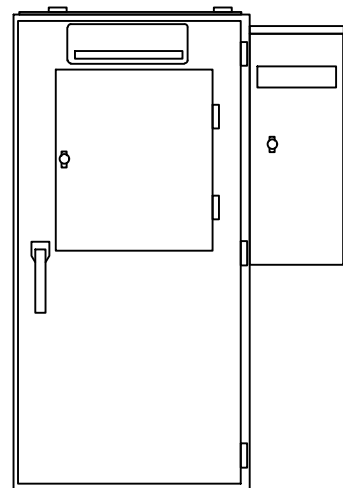
TTS Series  
Switches

200 Amps  
600 VAC

**GENERAC** | INDUSTRIAL  
POWER

TAS200

200A Automatic Transfer Switch



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

**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<br>120/208 3-Phase, 200A<br>120/240 3-Phase, 200A |
| Breaker                                       | Eaton 200 amp Utility Breaker<br>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  |
| Alarm Terminal Board                          | Generator Run Alarm  |
|   | Generator Fail - Shutdown Alarm  |
|   | Generator Fail - Non Shutdown Alarm  |
|   | Low Fuel Alarm   |
|   | Generator Theft Alarm  |
|   | AC Utility Fail Alarm  |



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SITE INFORMATION:

BRISTOL

10035029

GENERATOR REPLACEMENT  
PROJECT

790 WILLIS STREET  
BRISTOL, CT 06010

JURISDICTION USE:

SHEET TITLE:

ATS  
SPECIFICATIONS

SHEET NUMBER:

E-5.0

**TTS Control Systems**

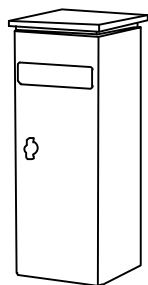
**INDICATORS AND BUTTONS**

|   |   |
|---|---|
| <ul style="list-style-type: none"> <li>. System Ready indicator</li> <li>. Standby Operating indicator</li> <li>. Utility Available indicator</li> <li>. GEN/UTIL Switch Position indicator</li> <li>. TVSS status</li> </ul> | <ul style="list-style-type: none"> <li>. Normal Test button</li> <li>. Fast Test button</li> <li>. Return to Normal button</li> <li>. Reset button</li> <li>. Exercising indicator</li> </ul> |
|---|---|

**DETAILS SCREEN**

|  |   |
|--|---|
| <p><b>System Settings:</b></p> <ul style="list-style-type: none"> <li>. System Voltage/Phases:             <ul style="list-style-type: none"> <li>- 120/240V single phase (standard)</li> <li>- 120/208V three phase (optional)</li> <li>- 120/240V three phase (optional)</li> </ul> </li> <li>. Utility Fail Monitor:             <ul style="list-style-type: none"> <li>- Under Voltage: 75-95% of nominal voltage</li> <li>- Over Voltage: 105%-125% of nominal voltage</li> <li>- Pickup (hysteresis): fixed at 5 volts</li> <li>- Delay time: 0-60s</li> </ul> </li> <li>. Utility Interrupt Delay: 0-60s</li> <li>. Return to Utility Timer: 1-30 minutes</li> <li>. Transfer:             <ul style="list-style-type: none"> <li>- In-phase, or</li> <li>- Time-Delay-Neutral at 0.0-10.0s in 1 second increments</li> </ul> </li> </ul> | <p><b>Exercise Settings:</b></p> <ul style="list-style-type: none"> <li>. Time of day</li> <li>. Day of week</li> <li>. Exercise:             <ul style="list-style-type: none"> <li>- Exercise with/without load</li> <li>- Exercise once every 1, 2, or 4 weeks.</li> <li>- Exercise time-of-day</li> <li>- Exercise day of week</li> <li>- Exercise duration: 15-30 minutes</li> </ul> </li> </ul> |
|  | <p><b>Screen Settings:</b></p> <ul style="list-style-type: none"> <li>. Brightness &amp; Contrast button</li> <li>. Screen Calibration button</li> <li>. Startup/Clean screen</li> </ul>  |
|  | <p><b>Diagnostics:</b></p> <ul style="list-style-type: none"> <li>. Digital I/O bits status</li> <li>. Voltage A/D readings</li> </ul>  |
| <p><b>Engine Settings:</b></p> <ul style="list-style-type: none"> <li>. Engine Warm-up timer: 0-20 minutes</li> <li>. Generator Load Accept:             <ul style="list-style-type: none"> <li>- Time-Delay-Neutral at 0.0-10.0s in 1 sec increments</li> <li>- Voltage: 85-95% of nominal</li> <li>- Frequency: 85-95% of nominal</li> </ul> </li> <li>. Engine Minimum Run Timer: 5-30 minutes</li> <li>. Engine Cooldown Timer: 0-20 minutes</li> </ul>  | <p><b>Mimic Diagram:</b></p> <ul style="list-style-type: none"> <li>. System Ready</li> <li>. Transfer switch position</li> <li>. Utility available</li> <li>. Standby available</li> <li>. Maintenance/Auto switch position</li> <li>. Generator source TS position</li> <li>. TVSS status</li> </ul>  |

| 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                              |



**CAM-LOCK BOX SPECIFICATIONS**



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**BRISTOL**  
**10035029**

**GENERATOR REPLACEMENT PROJECT**

790 WILLIS STREET  
BRISTOL, CT 06010

JURISDICTION USE:

SHEET TITLE:

**CAM-LOCK BOX SPECIFICATIONS**

SHEET NUMBER:

**E-5.1**

# ATTACHMENT 2

# 790 WILLIS ST

**Location** 790 WILLIS ST

**Mblu** 06 / 8A / /

**Acct#** 0034800

**Owner** CONN LIGHT + POWER CO

**Assessment** \$449,190

**Appraisal** \$641,700

**PID** 5681

**Building Count** 1

## Current Value

| Appraisal      |              |           |           |
|----------------|--------------|-----------|-----------|
| Valuation Year | Improvements | Land      | Total     |
| 2017           | \$392,100    | \$249,600 | \$641,700 |

| Assessment     |              |           |           |
|----------------|--------------|-----------|-----------|
| Valuation Year | Improvements | Land      | Total     |
| 2017           | \$274,470    | \$174,720 | \$449,190 |

## Owner of Record

**Owner** CONN LIGHT + POWER CO  
**Co-Owner**  
**Address** 107 SELDEN ST  
BERLIN, CT 06037

**Sale Price** \$0  
**Certificate** 1  
**Book & Page** 0277/0293  
**Sale Date** 01/25/1952

## Ownership History

| Ownership History     |            |             |             |            |
|-----------------------|------------|-------------|-------------|------------|
| Owner                 | Sale Price | Certificate | Book & Page | Sale Date  |
| CONN LIGHT + POWER CO | \$0        | 1           | 0277/0293   | 01/25/1952 |

## Building Information

### Building 1 : Section 1

**Year Built:** 1950  
**Living Area:** 900  
**Replacement Cost:** \$40,248  
**Building Percent** 65  
**Good:**  
**Replacement Cost**  
**Less Depreciation:** \$26,200

| Building Attributes |             |
|---------------------|-------------|
| Field               | Description |

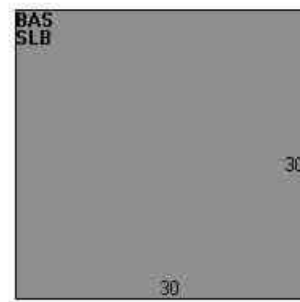
|                  |                |
|------------------|----------------|
| STYLE            | Warehouse      |
| MODEL            | Ind/Comm       |
| Stories:         | 1              |
| Occupancy        | 1.00           |
| Exterior Wall 1  | Concr/Cinder   |
| Exterior Wall 2  |                |
| Roof Structure   | Gable          |
| Roof Cover       | Asphalt Shingl |
| Interior Wall 1  | Minim/Masonry  |
| Interior Wall 2  |                |
| Interior Floor 1 | Concr-Finished |
| Interior Floor 2 |                |
| Heating Fuel     | Electric       |
| Heating Type     | Hot Air-no Duc |
| AC Type          | Unit/AC        |
| Struct Class     |                |
| Bldg Use         | Public Utility |
| Bedrooms         |                |
| Full Baths       |                |
| Half Baths       |                |
| Usrfd 218        |                |
| Usrfd 219        |                |
| 1st Floor Use:   |                |
| Heat/AC          | Heat/AC Pkgs   |
| Frame Type       | Masonry        |
| Baths/Plumbing   | Light          |
| Ceiling/Wall     | None           |
| Rooms/Prtns      | Light          |
| Wall Height      | 8.00           |
| % Comn Wall      |                |

### Building Photo



(<http://images.vgsi.com/photos2/BristolCTPhotos//\00\05\61\14>)

### Building Layout



(<http://images.vgsi.com/photos2/BristolCTPhotos//Sketches/568>)

| Building Sub-Areas (sq ft) |             |            | <u>Legend</u> |
|----------------------------|-------------|------------|---------------|
| Code                       | Description | Gross Area | Living Area   |
| BAS                        | First Floor | 900        | 900           |
| SLB                        | Slab        | 900        | 0             |
|                            |             | 1,800      | 900           |

### Extra Features

| Extra Features             | <u>Legend</u> |
|----------------------------|---------------|
| No Data for Extra Features |               |

### Land

#### Land Use

Use Code 436

#### Land Line Valuation

Size (Acres) 6.9

**Description** Public Utility  
**Zone** R-25  
**Neighborhood** 50  
**Alt Land Appr** No  
**Category**

**Frontage** 300  
**Depth**  
**Assessed Value** \$174,720  
**Appraised Value** \$249,600

### Outbuildings

| Outbuildings |                 |          |                 |             |           | Legend |
|--------------|-----------------|----------|-----------------|-------------|-----------|--------|
| Code         | Description     | Sub Code | Sub Description | Size        | Value     | Bldg # |
| CELL         | Cell Tower/Site |          |                 | 2.00 UNITS  | \$210,000 | 1      |
| CB3          | PreCastConcCel  |          |                 | 300.00 S.F. | \$54,000  | 1      |
| CB3          | PreCastConcCel  |          |                 | 300.00 S.F. | \$54,000  | 1      |
| FCP          | Carport         |          |                 | 900.00 S.F. | \$5,600   | 1      |
| GAR1         | Garage          | FR       | Frame           | 420.00 S.F. | \$6,300   | 1      |
| CB3          | PreCastConcCel  |          |                 | 200.00 S.F. | \$36,000  | 1      |

### Valuation History

| Appraisal      |              |           |           |
|----------------|--------------|-----------|-----------|
| Valuation Year | Improvements | Land      | Total     |
| 19             | \$392,100    | \$249,600 | \$641,700 |
| 2018           | \$392,100    | \$249,600 | \$641,700 |
| 2017           | \$392,100    | \$249,600 | \$641,700 |

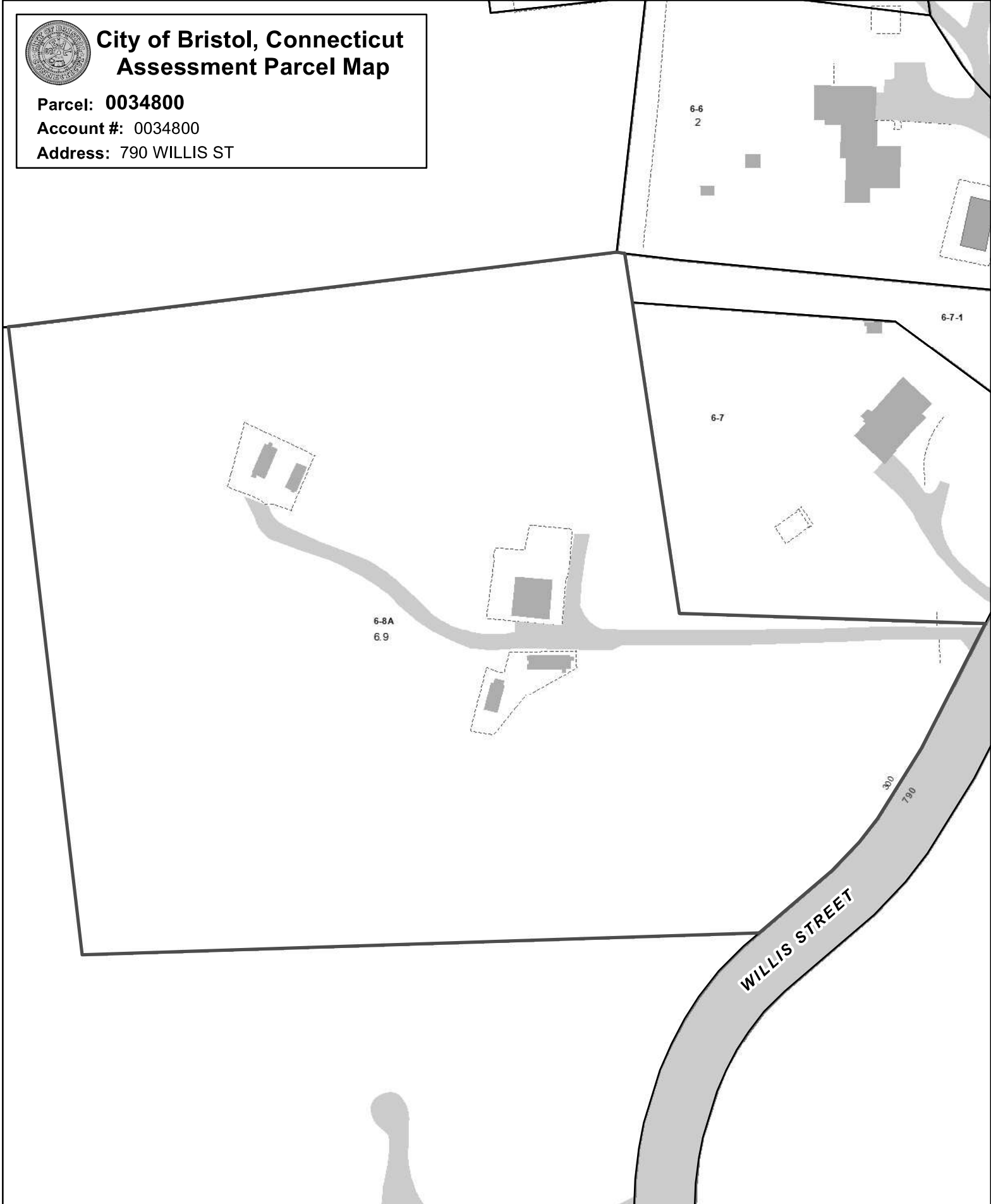
| Assessment     |              |           |           |
|----------------|--------------|-----------|-----------|
| Valuation Year | Improvements | Land      | Total     |
| 19             | \$274,470    | \$174,720 | \$449,190 |
| 2018           | \$274,470    | \$174,720 | \$449,190 |
| 2017           | \$274,470    | \$174,720 | \$449,190 |

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# City of Bristol, Connecticut Assessment Parcel Map

Parcel: **0034800**  
Account #: 0034800  
Address: 790 WILLIS ST



Approximate Scale: 1 inch = 100 feet

Map Produced March 2018

Disclaimer: This map is for informational purposes only. All information is subject to verification by any user. The City of Bristol and its mapping contractors assume no legal responsibility for the information contained herein.



# STATE OF CONNECTICUT

## CONNECTICUT SITING COUNCIL

136 Main Street, Suite 401  
New Britain, Connecticut 06051-4225  
Phone: 827-7682

December 20, 1993

Peter J. Tyrrell  
Senior Attorney  
Springwich Cellular Limited Partnership  
227 Church Street  
New Haven, CT 06510

Re: PETITION NO. 314 - Springwich Cellular Limited Partnership petition for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required for the installation of a new cellular telecommunications monopole tower and cellular antennas at an existing multiple tower site located on South Mountain off Willis Street in Bristol, Connecticut.

Dear Attorney Tyrrell:

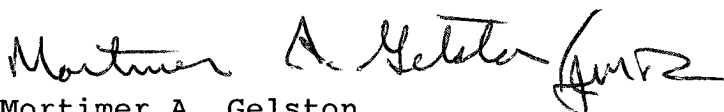
At a public meeting on December 15, 1993, the Connecticut Siting Council (Council) ruled that the proposed construction of a 120-foot replacement telecommunications tower, equipment building, security fence, and access road improvements, and the removal of two existing 80-foot towers and a portable equipment building, located off Willis Street in Bristol, Connecticut, would not have a substantial adverse environmental effect and pursuant to Connecticut General Statutes section 16-50k, would not require a Certificate of Environmental Compatibility and Public Need.

The construction is to be implemented as specified in the petition, dated November 22, 1993.

Please notify the Council upon completion of construction.

Enclosed for your information is a copy of the staff report on this project.

Very truly yours,

  
Mortimer A. Gelston  
Chairman

MAG:RKE:mmb  
Enclosure

7569E

SCANNED



# ATTACHMENT 3

ORIGIN ID: GAA (301) 286-0258  
CATHERINE CONKLIN  
GENERAL DYNAMICS  
4003 KEMPER STREET  
ROCKVILLE, MD 20853  
UNITED STATES US

SHIP DATE: 20AUG24  
ACTWGHT: 1.00 LB  
CAD: 1054867531/NET4535

BILL SENDER

TO **CONNECTICUT LIGHT & POWER CO.**  
**CONNECTICUT LIGHT & POWER CO.**  
**107 SELDEN STREET**

583J6/A12D/9AE3

**BERLIN CT 06037**

(203) 965-5000

PO:

REF:

DEPT:



J243024071301uv

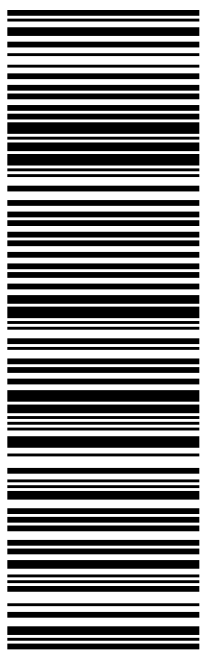
TRK# 0201 7780 7446 3118

WED - 21 AUG 10:30A  
PRIORITY OVERNIGHT

**EBBDLA**

06037

CT-US BDL



After printing this label:

**CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH**

1. Fold the printed page along the horizontal line.
2. Place label in shipping pouch and affix it to your shipment.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on [fedex.com](http://fedex.com). FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



August 21, 2024

Dear Customer,

The following is the proof-of-delivery for tracking number: 778074463118

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**Delivery Information:**

---

|                          |                           |                           |                    |
|--------------------------|---------------------------|---------------------------|--------------------|
| <b>Status:</b>           | Delivered                 | <b>Delivered To:</b>      |                    |
| <b>Signed for by:</b>    | Signature release on file | <b>Delivery Location:</b> | 107 SELDEN ST      |
| <b>Service type:</b>     | FedEx Priority Overnight  |                           |                    |
| <b>Special Handling:</b> | Deliver Weekday           |                           | Berlin, CT, 06037  |
|                          |                           | <b>Delivery date:</b>     | Aug 21, 2024 10:20 |

---

**Shipping Information:**

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|                         |              |                   |                |
|-------------------------|--------------|-------------------|----------------|
| <b>Tracking number:</b> | 778074463118 | <b>Ship Date:</b> | Aug 20, 2024   |
|                         |              | <b>Weight:</b>    | 0.5 LB/0.23 KG |

**Recipient:**  
Connecticut Light & Power Co., Connecticut Light & Power Co.  
107 Selden Street  
Berlin, CT, US, 06037

**Shipper:**  
Catherine Conklin, General Dynamics  
4603 Kemper Street  
ROCKVILLE, MD, US, 20853

Proof-of-delivery details appear below; however, no signature is available for this FedEx Express shipment because a signature was not required.

Thank you for choosing FedEx

ORIGIN ID: GAA (301) 286-0258  
CATHERINE CONKLIN  
GENERAL DYNAMICS  
4003 KEMPER STREET  
ROCKVILLE, MD 20853  
UNITED STATES US

SHIP DATE: 20AUG24  
ACTWGT: 1.00 LB  
CAD: 105486753/NET4535

BILL SENDER

TO **THOMAS DAMON SMITH, CODE ENF.**  
**CITY OF BRISTOL**  
**111 NORTH MAIN STREET**

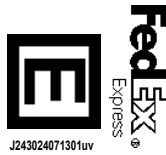
**BRISTOL CT 06010**

(860) 584-6219

REF:

PO:

DEPT:



J243024071301uv

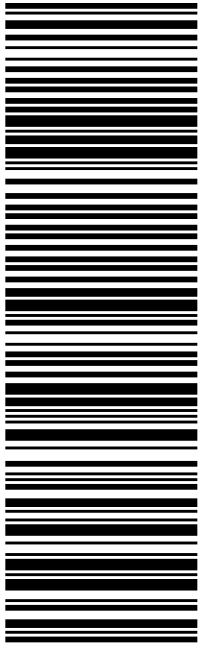
TRK# 0201 7780 7443 8194

WED - 21 AUG 10:30A  
PRIORITY OVERNIGHT

**EB BNHA**

06010

CT-US BDL



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1. Fold the printed page along the horizontal line.
2. Place label in shipping pouch and affix it to your shipment.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on [fedex.com](http://fedex.com). FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Dear Customer,

The following is the proof-of-delivery for tracking number: 778074438194

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**Delivery Information:**

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|                          |                          |                           |                         |
|--------------------------|--------------------------|---------------------------|-------------------------|
| <b>Status:</b>           | Delivered                | <b>Delivered To:</b>      | Receptionist/Front Desk |
| <b>Signed for by:</b>    | D.ROSA                   | <b>Delivery Location:</b> | 111 N MAIN ST           |
| <b>Service type:</b>     | FedEx Priority Overnight |                           |                         |
| <b>Special Handling:</b> | Deliver Weekday          |                           | BRISTOL, CT, 06010      |
|                          |                          | <b>Delivery date:</b>     | Aug 21, 2024 10:22      |

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**Shipping Information:**

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|                         |              |                   |                |
|-------------------------|--------------|-------------------|----------------|
| <b>Tracking number:</b> | 778074438194 | <b>Ship Date:</b> | Aug 20, 2024   |
|                         |              | <b>Weight:</b>    | 0.5 LB/0.23 KG |

**Recipient:**

Thomas Damon Smith, Code Enf., City of Bristol  
111 North Main Street  
BRISTOL, CT, US, 06010

**Shipper:**

Catherine Conklin, General Dynamics  
4603 Kemper Street  
ROCKVILLE, MD, US, 20853



Thank you for choosing FedEx

ORIGIN ID: GAA (301) 286-0258  
CATHERINE CONKLIN  
GENERAL DYNAMICS  
4003 KEMPER STREET  
ROCKVILLE, MD 20853  
UNITED STATES, US

SHIP DATE: 20AUG24  
ACTWGHT: 1.00 LB  
CAD: 1054867531/NET4535

BILL SENDER

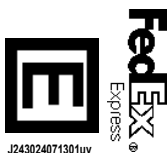
TO **JEFFREY CAGGIANO, MAYOR**  
**CITY OF BRISTOL**  
**111 NORTH MAIN STREET**  
**3RD FLOOR**  
**BRISTOL CT 06010**

REF: (860) 584-6250

REF:

PO:

DEPT:



J243024071301uv

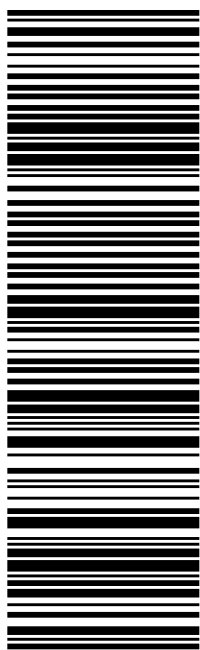
TRK# 0201 7780 7435 6260

WED - 21 AUG 10:30A  
PRIORITY OVERNIGHT

**EB BNHA**

06010

CT-US BDL



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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on [fedex.com](http://fedex.com). FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Dear Customer,

The following is the proof-of-delivery for tracking number: 778074356260

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**Delivery Information:**

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|                          |                          |                           |                         |
|--------------------------|--------------------------|---------------------------|-------------------------|
| <b>Status:</b>           | Delivered                | <b>Delivered To:</b>      | Receptionist/Front Desk |
| <b>Signed for by:</b>    | L.KRISTEN                | <b>Delivery Location:</b> | 111 N MAIN ST 3         |
| <b>Service type:</b>     | FedEx Priority Overnight |                           |                         |
| <b>Special Handling:</b> | Deliver Weekday          |                           | BRISTOL, CT, 06010      |
|                          |                          | <b>Delivery date:</b>     | Aug 21, 2024 10:23      |

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**Shipping Information:**

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|                         |              |                   |                |
|-------------------------|--------------|-------------------|----------------|
| <b>Tracking number:</b> | 778074356260 | <b>Ship Date:</b> | Aug 20, 2024   |
|                         |              | <b>Weight:</b>    | 0.5 LB/0.23 KG |

**Recipient:**

Jeffrey Caggiano, Mayor, City of Bristol  
111 North Main Street  
3rd Floor  
BRISTOL, CT, US, 06010

**Shipper:**

Catherine Conklin, General Dynamics  
4603 Kemper Street  
ROCKVILLE, MD, US, 20853

Thank you for choosing FedEx

ORIGIN ID: GAIN (301) 286-0258  
CATHERINE CONKLIN  
GENERAL DYNAMICS  
4003 KEMPER STREET  
ROCKVILLE, MD 20853  
UNITED STATES US

SHIP DATE: 20AUG24  
ACTWGHT: 1.00 LB  
CAD: 1054867531/NET14535

BILL SENDER

TO **ROBERT FLANNAGAN, CITY PLANNER**  
**CITY OF BRISTOL**  
**111 NORTH MAIN STREET**

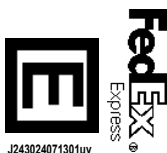
**BRISTOL CT 06010**

(860) 584-6225

REF:

P.O.:

DEPT:



J243024071301uv

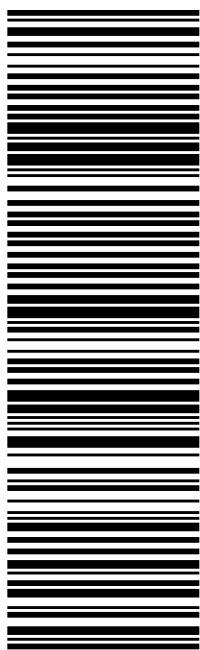
TRK# 0201 7780 7441 1522

WED - 21 AUG 10:30A  
PRIORITY OVERNIGHT

**EB BNHA**

06010

CT-US BDL



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Dear Customer,

The following is the proof-of-delivery for tracking number: 778074411522

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**Delivery Information:**

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|                          |                          |                           |                         |
|--------------------------|--------------------------|---------------------------|-------------------------|
| <b>Status:</b>           | Delivered                | <b>Delivered To:</b>      | Receptionist/Front Desk |
| <b>Signed for by:</b>    | K.NANCY                  | <b>Delivery Location:</b> | 111 N MAIN ST           |
| <b>Service type:</b>     | FedEx Priority Overnight |                           |                         |
| <b>Special Handling:</b> | Deliver Weekday          |                           | BRISTOL, CT, 06010      |
|                          |                          | <b>Delivery date:</b>     | Aug 21, 2024 10:20      |

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**Shipping Information:**

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|                         |              |                   |                |
|-------------------------|--------------|-------------------|----------------|
| <b>Tracking number:</b> | 778074411522 | <b>Ship Date:</b> | Aug 20, 2024   |
|                         |              | <b>Weight:</b>    | 0.5 LB/0.23 KG |

**Recipient:**  
Robert Flannagan, City Planner, City of Bristol  
111 North Main Street  
BRISTOL, CT, US, 06010

**Shipper:**  
Catherine Conklin, General Dynamics  
4603 Kemper Street  
ROCKVILLE, MD, US, 20853



Thank you for choosing FedEx