



January 10, 2023

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
188 Moody Road, Enfield, CT 06082
Lat.: 42.00239190; Long.: -072.52149890

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 188 Moody Road in the Town of Enfield, Connecticut. The underlying property is owned by Troiano Realty Corp. and the tower is owned by SBA. AT&T submits this letter and enclosures to the Connecticut Siting Council (“Council”) to notify the Council of AT&T’s intent to perform modifications to the existing facility that do not have substantial adverse environmental effects and thus do not require a certificate pursuant to Section 16-50k of the Connecticut General Statutes.

AT&T intends to install one (1) new Generac 30kW Diesel Generator within the existing grade-level fenced equipment compound as demonstrated on the plans enclosed as Attachment 1. AT&T’s existing facility supports its FirstNet program which provides first responders with priority access to AT&T’s network to ensure adequate communication capabilities in the event of emergency. AT&T’s proposed generator will ensure that critical communication capability for first responders and the public are not lost in the event of a loss of power.

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

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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 the Ellen Zoppo-Sassu, Town Manager, Matthew Davis, Assistant Town Planner 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
2586 Industry Lane, Suite 100
Norristown, PA 19403
(202) 568-0437
catherine.conklin@gdit.com

GENERAL DYNAMICS
Information Technology

CC:

Ellen Zoppo-Sassu, Town Manager
820 Enfield Street
Enfield, CT 06082
860-253-6350

Matthew Davis, Assistant Town Planner
820 Enfield Street
Enfield, CT 06082
860-253-6368

Troiano Realty Corp, Property Owner
777 Enfield Street
Enfield CT 06082

SBA, Tower Owner

ATTACHMENT 1



at&t Mobility

SITE NAME: OVERLAY - ENFIELD EAST
FA LOCATION CODE: 10090926
SBA ID: CT46124

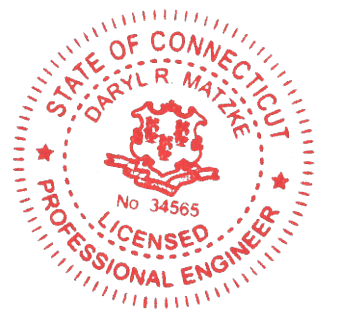
GENERATOR PROJECT
30KW GENERAC DIESEL GENERATOR
200A GENERAC ATS

188 MOODY ROAD
ENFIELD, CT 06082



CONSULTANT:
GENERAL DYNAMICS
Information Technology, Inc.
GENERAL DYNAMICS
101 STATION DR
WESTWOOD, MA 02090

Certification & Seal:
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Connecticut.



 12/27/2022
Signature: Date:

MARK	DATE	DESCRIPTION
ISSUE	FINAL	DATE ISSUED 12/27/2022

PROJECT TITLE:

OVERLAY - ENFIELD EAST
FA ID # 10090926

PROJECT INFORMATION:
188 MOODY ROAD
ENFIELD, CT 06082

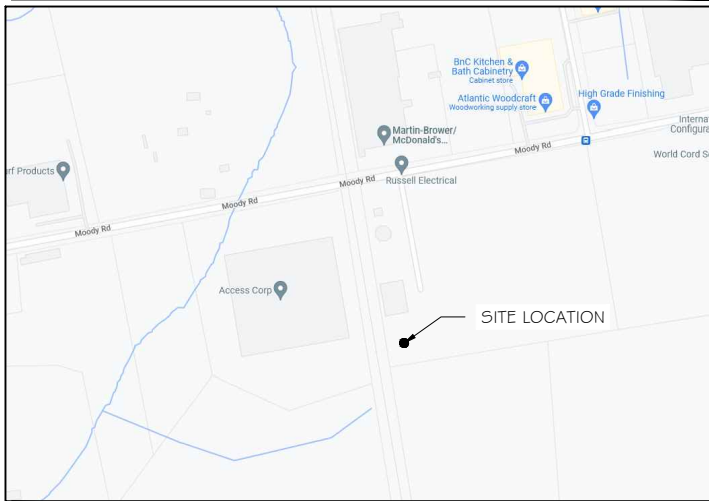
SHEET TITLE:

TITLE SHEET

SCALE: NONE

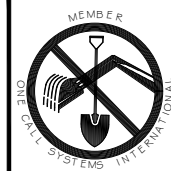
PROJECT NUMBER	54173
SHEET NUMBER	T-1

VICINITY MAP



SCOPE OF WORK

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



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

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

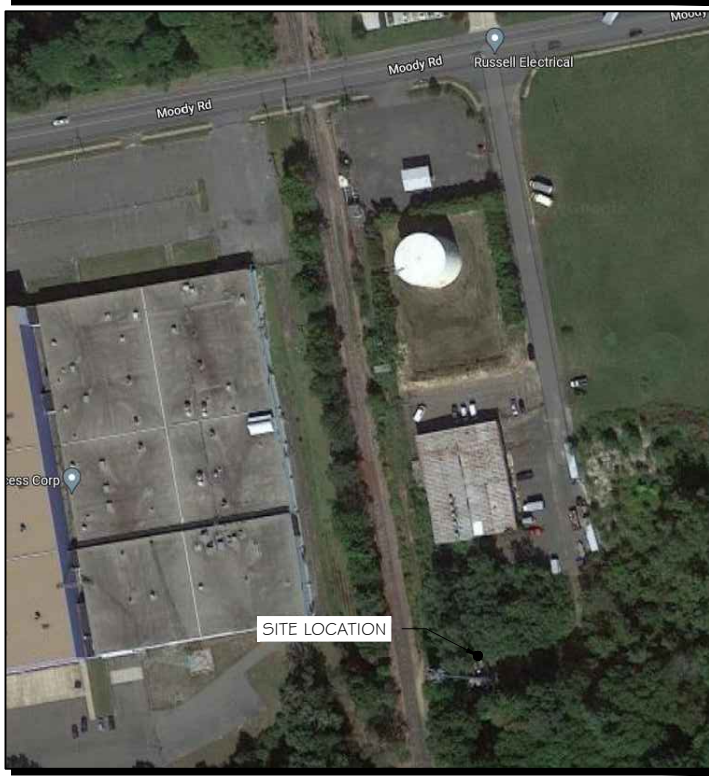
CONNECTICUT PUBLIC ACT 87-71 REQUIRES MIN. 2 WORKING DAYS NOTICE BEFORE YOU EXCAVATE.

APPLICABLE BUILDING CODE & STANDARDS

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

1. INTERNATIONAL BUILDING CODE 2015
2. NATIONAL ELECTRIC CODE 2017
3. AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
4. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION
5. TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-G, STRUCTURAL STANDARDS FOR STEEL TOWER AND ANTENNA SUPPORTING STRUCTURES
6. TIA 607, COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS

AERIAL VIEW OF SITE



PROJECT INFORMATION

PROJECT MANAGER:

BRIAN K SILBERT
SR. REGIONAL MANAGER
GENERAL DYNAMICS WIRELESS SERVICES
101 STATION DRIVE
WESTWOOD, MA 02090
EMAIL: Brian.Silbert@GDIT.com

ENGINEER:

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

APPLICANT INFORMATION:

AT&T MOBILITY
7150 STANDARD DR
HANOVER, MD 21076

SITE DATA:

SITE NAME: OVERLAY - ENFIELD EAST
FA NUMBER: 10090926

PROPERTY OWNER:

SBA COMMUNICATIONS CORPORATION
805 I CONGRESS AVENUE
BOCA RATON, FL 33487

ADDRESS:

188 MOODY ROAD
ENFIELD, CT 06082

COUNTY:

HARTFORD

LAT.: 42.002030°
LONG.: -72.521755°

GROUND ELEVATION: 181 FT AMSL

DO NOT SCALE DRAWINGS:

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

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

SHEET INDEX

GENERAL:

T-1 TITLE SHEET

NOTES:

N-1 GENERAL NOTES

SITE:

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

ELECTRICAL & GROUNDING:

E-1 WIRING DETAILS
E-2 PANEL AND PENETRATION DETAILS
E-3 ATS, CONDUIT & GROUND ROD DETAILS
E-4 GENERAC GENERATOR SPECIFICATIONS
E-4.1 GENERAC GENERATOR SPECIFICATIONS
E-4.2 GENERAC GENERATOR SPECIFICATIONS
E-5 GENERAC ATS SPECIFICATIONS
E-5.1 GENERAC ATS SPECIFICATIONS

SIGNATURE BLOCK

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

NOTES TO SUBCONTRACTOR:

1. THE GENERAL SUBCONTRACTOR MUST VERIFY ALL DIMENSIONS, CONDITIONS AND ELEVATIONS BEFORE PROCEEDING WITH THE WORK. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER IN ACCORDANCE WITH ACCEPTED CONSTRUCTION PRACTICES.
2. IT IS THE INTENTION OF THESE DRAWINGS TO SHOW THE COMPLETED INSTALLATION. THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY BRACING, SHORING, TIES, FORM WORK, ETC. IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL ORDINANCES, TO SAFELY EXECUTE ALL WORK AND SHALL BE RESPONSIBLE FOR SAME. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES.
3. THE SUBCONTRACTOR SHALL USE ADEQUATE NUMBER OF SKILLED WORKMAN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND METHOD NEEDED FOR PROPER PERFORMANCE OF THE WORK.
4. CONSTRUCTION SUBCONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION SUBCONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND CONSTRUCTION SUBCONTRACTOR FURTHER AGREES TO INDEMNIFY AND HOLD DESIGN ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH PERFORMANCE OF WORK ON THIS PROJECT.
5. SITE GROUNDING SHALL COMPLY WITH AT&T WIRELESS SERVICES TECHNICAL SPECIFICATIONS FOR FACILITY GROUNDING FOR CELL SITE STANDARDS, LATEST EDITION, AND COMPLY WITH AT&T TOWERS GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN. GROUNDING SHALL BE COMPLETED BEFORE ERECTION OF TOWER.
6. ALL WORK SHALL COMPLY WITH OSHA AND STATE SAFETY REQUIREMENTS. PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION, IF TEMPORARY LIGHTING AND MARKING IS REQUIRED BY THE FEDERAL AVIATION ADMINISTRATION (FAA), IT IS THE SUBCONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE NECESSARY LIGHTS AND NOTIFY THE PROPER AUTHORITIES IN THE EVENT OF A PROBLEM.
7. ALL WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL CODES OR ORDINANCES. THE MOST STRINGENT CODE WILL APPLY IN THE CASE OF DISCREPANCIES OR DIFFERENCES IN THE CODE REQUIREMENTS.
8. ANY DAMAGE TO THE ADJACENT PROPERTIES WILL BE CORRECTED AT THE SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE LANDOWNER AND THE ENGINEER.
9. THE COMPLETE BID PACKAGE INCLUDES THESE CONSTRUCTION DRAWINGS ALONG WITH THE SPECIFICATIONS. SUBCONTRACTOR IS RESPONSIBLE FOR REVIEW OF TOTAL BID PACKAGE PRIOR TO BID SUBMITTAL..
10. SUBCONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES WITHIN CONSTRUCTION LIMITS PRIOR TO CONSTRUCTION.
11. THE SUBCONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE ON THE SITE AT ALL TIMES. SILT AND EROSION CONTROL SHALL BE MAINTAINED ON THE DOWNSTREAM SIDE OF THE SITE AT ALL TIMES. ANY DAMAGE TO ADJACENT PROPERTIES WILL BE CORRECTED AT THE SUBCONTRACTOR'S EXPENSE.
12. CLEARING OF TREES AND VEGETATION ON THE SITE SHOULD BE HELD TO A MINIMUM. ONLY THE TREES NECESSARY FOR CONSTRUCTION OF THE FACILITIES SHALL BE REMOVED. ANY DAMAGE TO THE PROPERTY OUTSIDE THE LEASED PROPERTY SHALL BE REPAIRED BY THE SUBCONTRACTOR.
13. ALL SUITABLE BORROW MATERIAL FOR BACK FILL OF THE SITE SHALL BE INCLUDED IN THE BID. EXCESS TOPSOIL AND UNSUITABLE MATERIAL SHALL BE DISPOSED OF OFF SITE AT LOCATIONS APPROVED BY GOVERNING AGENCIES PRIOR TO DISPOSAL.
14. SEEDING AND MULCHING OF THE SITE WILL BE ACCOMPLISHED AS SOON AS POSSIBLE AFTER COMPLETION OF THE SITE DEVELOPMENT. THE SUBCONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAIN AN ADEQUATE COVER OF VEGETATION OVER THE SITE FOR A ONE YEAR PERIOD.
15. PERMITS: THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND INCURRING THE COST OF ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATES, ETC.

16. RECORD DRAWINGS: MAINTAIN A RECORD OF ALL CHANGES, SUBSTITUTIONS BETWEEN WORK AS SPECIFIED AND INSTALLED. RECORD CHANGES ON A CLEAN SET OF CONTRACT DRAWINGS WHICH SHALL BE TURNED OVER TO THE CONSTRUCTION MANAGER UPON COMPLETION OF THE PROJECT.

17. THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURES, ABOVE GROUND STRUCTURES AND/OR EXISTING UTILITIES BELIEVED TO BE IN THE WORKING AREA. IT IS THE RESPONSIBILITY OF THE SUBCONTRACTOR TO VERIFY ALL UTILITIES, PIPELINES AND OTHER STRUCTURES SHOWN OR NOT SHOWN ON THESE PLANS. THE SUBCONTRACTOR SHALL CONTACT THE LOCAL JURISDICTION'S DIGGER'S HOTLINE BEFORE DIGGING OR DRILLING. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER AND ENGINEER AT THE SUBCONTRACTOR'S EXPENSE.

GENERAL NOTES:

1. THIS PROPOSAL IS FOR THE ADDITION OF A NEW GENERATOR ON A CONCRETE PAD TO AN EXISTING UNMANNED TELECOMMUNICATIONS FACILITY CONSISTING OF AN EQUIPMENT SHELTER AND TOWER.
2. THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE.
3. THE PROPOSED FACILITY IS UNMANNED AND IS NOT FOR HUMAN HABITAT. (NO HANDICAP

ACCESS IS REQUIRED)

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

ELECTRICAL NOTES:
A. GENERAL

1. COORDINATE LOCATION AND POWER REQUIREMENTS OF ALL EQUIPMENT WITH AT&T AND EQUIPMENT SUPPLIER PRIOR TO INSTALLATION.
2. COORDINATE LOCATION AND REQUIREMENTS FOR ELECTRICAL AND TELEPHONE SERVICES WITH THE PROPERTY REPRESENTATIVE, AT&T AND UTILITY COMPANIES. ROUTING OF CONDUITS MAY BE MODIFIED TO MEET SITE REQUIREMENTS. EXACT CONDUIT ROUTING TO BE DETERMINED IN THE FIELD.
3. ALL WIRING AND EQUIPMENT SHOWN ON ELECTRICAL SHEETS SHALL BE FURNISHED AND INSTALLED UNDER ELECTRICAL PORTION OF CONTRACT UNLESS OTHERWISE NOTED
4. UNINTERRUPTED ELECTRICAL SERVICE FOR EXISTING EQUIPMENT SHALL BE MAINTAINED DURING THE INSTALLATION OF THE WORK DESCRIBED UNDER THESE DOCUMENTS. TEMPORARY EQUIPMENT, CABLES AND WHATEVER ELSE IS NECESSARY SHALL BE PROVIDED AS REQUIRED TO MAINTAIN ELECTRICAL SERVICE. TEMPORARY SERVICE FACILITIES, IF REQUIRED AT ANY TIME, SHALL NOT BE DISCONNECTED OR REMOVED UNTIL NEW SERVICE EQUIPMENT IS IN PROPER OPERATION. IF ANY SERVICE OR SYSTEM MUST BE INTERRUPTED, THE CONTRACTOR SHALL REQUEST PERMISSION IN WRITING STATING THE DATE, TIME, ETC. THE SERVICE WILL BE INTERRUPTED AND THE AREAS AFFECTED. THIS REQUEST SHALL BE MADE IN SUFFICIENT TIME FOR PROPER ARRANGEMENTS TO BE MADE. WRITTEN PERMISSION SHALL BE OBTAINED FROM THE OWNER BEFORE INTERRUPTING ELECTRICAL SERVICE.
5. COORDINATE NEW WORK WITH OTHER TRADES AND VERIFY EXISTING CONDITIONS TO AVOID INTERFERENCE. IN CASE OF INTERFERENCE, AT&T'S REPRESENTATIVE WILL DECIDE WHICH WORK IS TO BE RELOCATED, REGARDLESS OF WHICH WAS FIRST INSTALLED.
6. THE INSTALLATION MUST COMPLY WITH NEC AND ALL FEDERAL, STATE AND LOCAL RULES AND REGULATIONS.
7. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND EQUIPMENT UNLESS OTHERWISE DEFINED BY DIMENSIONS OR DETAILS. EXACT EQUIPMENT LOCATIONS AND RACEWAY ROUTING SHALL BE GOVERNED BY ACTUAL FIELD CONDITIONS AND/OR DIRECTIONS FROM AT&T'S REPRESENTATIVE.
8. CONTRACTOR SHALL PAY ALL PERMITS AND FEES REQUIRED.
9. ALL MATERIALS SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE STANDARDS REFERENCED BELOW:
- a. ANSI (AMERICAN NATIONAL STANDARDS INSTITUTE)
 - b. ASTM (AMERICAN SOCIETY FOR TESTING MATERIALS)
 - c. ETL (ELECTRICAL TESTING LABORATORY)
 - d. ICEA (INSULATED CABLE ENGINEERS ASSOCIATION)
 - e. IEEE (INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS)
 - f. MBFU (NATIONAL BOARD OF FIRE UNDERWRITERS)
 - g. NESC (NATIONAL ELECTRICAL SAFETY CODE)
 - h. NEMA (NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION)
 - i. NFPA (NATIONAL FIRE PROTECTION ASSOCIATION)
 - j. UL (UNDERWRITER'S LABORATORY)
10. CONTRACTOR SHALL REVIEW PLANS, DETAILS AND SPECIFICATIONS IN DETAIL AND ADJUST WORK TO CONFORM WITH ACTUAL SITE CONDITIONS SO THAT ELECTRICAL DEVICES AND EQUIPMENT WILL BE LOCATED AND READILY ACCESSIBLE. QUANTITIES LISTED IN MATERIAL LISTS ON THE DRAWINGS ARE FOR INFORMATION ONLY. THE CONTRACTOR SHALL PROVIDE HIS OWN TAKEOFF FOR MATERIAL QUANTITY AND TYPES BASED ON ACTUAL SITE CONDITIONS. IN ADDITION, CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIALS TO INSTALL EQUIPMENT FURNISHED BY AT&T OR ITS SUPPLIERS. ALL ITEMS NOT SPECIFICALLY MENTIONED HEREIN OR SHOWN ON THE DRAWINGS, BUT WHICH ARE OBVIOUSLY NECESSARY TO MAKE A COMPLETE WORKING INSTALLATION, SHALL BE INCLUDED.

11. THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) AT&T'S REPRESENTATIVE OF ANY CONFLICTS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK, IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED IN WRITING OTHERWISE.
12. ALL FLOORS WHERE PENETRATIONS ARE REQUIRED IN BUILDING ARE TO BE CORE DRILLED AND THEN FIREPROOFED.

B. WIRING/CONDUIT

1. PROVIDE PULL BOXES AND JUNCTION BOXES WHERE SHOWN OR AS REQUIRED BY CODE SUCH THAT NO MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (380 DEGREES TOTAL) EXIST IN A CONDUIT RUN.
2. ALL POWER AND CONTROL/INDICATION WIRING SHALL BE TYPE THHN/THWN 800V RATED 75 DEGREES CELSIUS, UNLESS NOTED OTHERWISE.

3. SCHEDULE 80 PVC CONDUIT SHALL BE USED ABOVE GROUND, WHERE ABOVE GRADE IS DEFINED AS THE GROUND OF THE TURN-UP
4. BELL END OR TERMINAL ADAPTER MUST BE INSTALLED ON END OF PVC CONDUIT PER NEC 352.46. 300.4 F, (3)
5. CONDUIT BENDS SHALL BE MADE IN ACCORDANCE WITH NEC TABLE 346-10. NO RIGHT ANGLE DEVICE OTHER THAN STANDARD CONDUIT ELBOWS WITH 1/2" MINIMUM INSIDE SWEEPS FOR ALL CONDUITS 2" OR LARGER.
6. POWER WIRING SIZE SHALL NOT BE SMALLER THAN #12 AWG.
7. ALL WIRING SHALL BE COPPER. ALUMINUM WILL NOT BE ACCEPTABLE ALL POWER CIRCUITS SHALL CONTAIN A GROUND WIRE.
8. PHASE MARKINGS TO BE USED AT POWER CONDUCTOR TERMINATIONS.
9. CONTRACTOR SHALL ENSURE INTEGRITY IS MAINTAINED WHEN INSTALLING CONDUIT AND WIRING.
10. INSTALL PULL STRING IN ALL CONDUIT.
11. 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.
12. MAINTAIN MINIMUM 1'-0" VERTICAL AND 1'-0" HORIZONTAL SEPARATIONS FROM ANY MECHANICAL GAS PIPING.
13. ALL WIRING ROUTED IN PLENUM TO BE RATED OR IN METALLIC FLEX (LIQUIDITE) CONDUIT.

C. EQUIPMENT

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

D. GROUNDING

1. ALL GROUND CONNECTIONS TO BUILDING SHALL BE MADE USING TWO-HOLE CONNECTORS. PROVIDE STAINLESS STEEL BOLTS AND LOCK WASHERS ON ALL MECHANICAL GROUND CONNECTIONS.
2. ALL EQUIPMENT SURFACES TO BE BONDED TO GROUNDING SYSTEM SHALL BE STRIPPED OF ALL PAINT AND DIRT. CONNECTIONS TO VARIOUS METALS SHALL BE OF A TYPE AS TO CAUSE A GALVANIC OR CORROSIVE REACTION. AREA SHALL BE REPAINTED FOLLOWING BONDING.
3. ANY METALLIC ITEM WITHIN 6' OF GROUND CONDUCTORS MUST BE CONNECTED TO THE GROUNDING SYSTEM.
4. EXTERIOR, ABOVE GRADE GROUND CONNECTIONS SHALL BE FURNISHED WITH A LIBERAL PROTECTIVE COATING OF ANTI-OXIDE COMPOUND.
5. ALL MATERIALS AND LABOR REQUIRED FOR THE GROUNDING SYSTEM AS INDICATED ON THE PLANS AND DETAILS, AND AS DESCRIBED HEREIN SHALL BE FURNISHED BY THIS CONTRACTOR UNLESS OTHERWISE NOTED.
6. EXACT LOCATION OF GROUND CONNECTION POINTS SHALL BE DETERMINED IN FIELD. ADJUST LOCATIONS INDICATED ON PLANS ACCORDING TO ACTUAL EQUIPMENT LOCATIONS TO KEEP THE GROUND CONNECTION CABLES AS SHORT AS PRACTICAL.
7. PROVIDE ALL ELECTRICAL SYSTEM AND EQUIPMENT GROUNDS AS REQUIRED BY THE CURRENT EDITION OF THE NATIONAL ELECTRIC CODE AND THE CURRENT EDITION OF THE NATIONAL ELECTRICAL SAFETY CODE. 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 EQUIPMENT GROUND CONDUCTORS SHALL BE TIN COATED, #2 AWG COPPER UNLESS NOTED OTHERWISE ON THE DRAWINGS.
9. PROVIDE PRE AND POST GROUND TEST RESULTS, USING CLAMP-ON TESTER. TEST RESULTS SHALL BE PHOTOS WITH DIGITAL TIME AND GPS STAMPED/EMBEDDED.

E. INSPECTION/DOCUMENTATION

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



RAMAKER
employee-owned

(608) 643-4100 www.ramaker.com

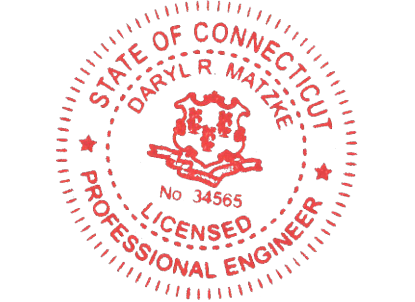
PREPARED FOR:



CONSULTANT:
GENERAL DYNAMICS
Information Technology, Inc.

GENERAL DYNAMICS
101 STATION DR
WESTWOOD, MA 02090

Certification & Seal:
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Connecticut.



 12/27/2022
Signature: Date:

MARK	DATE	DESCRIPTION
ISSUE	FINAL	DATE ISSUED 12/27/2022

PROJECT TITLE:

OVERLAY - ENFIELD EAST
FA ID # 10090926

PROJECT INFORMATION:
188 MOODY ROAD
ENFIELD, CT 06082

SHEET TITLE:

GENERAL NOTES

SCALE: NONE

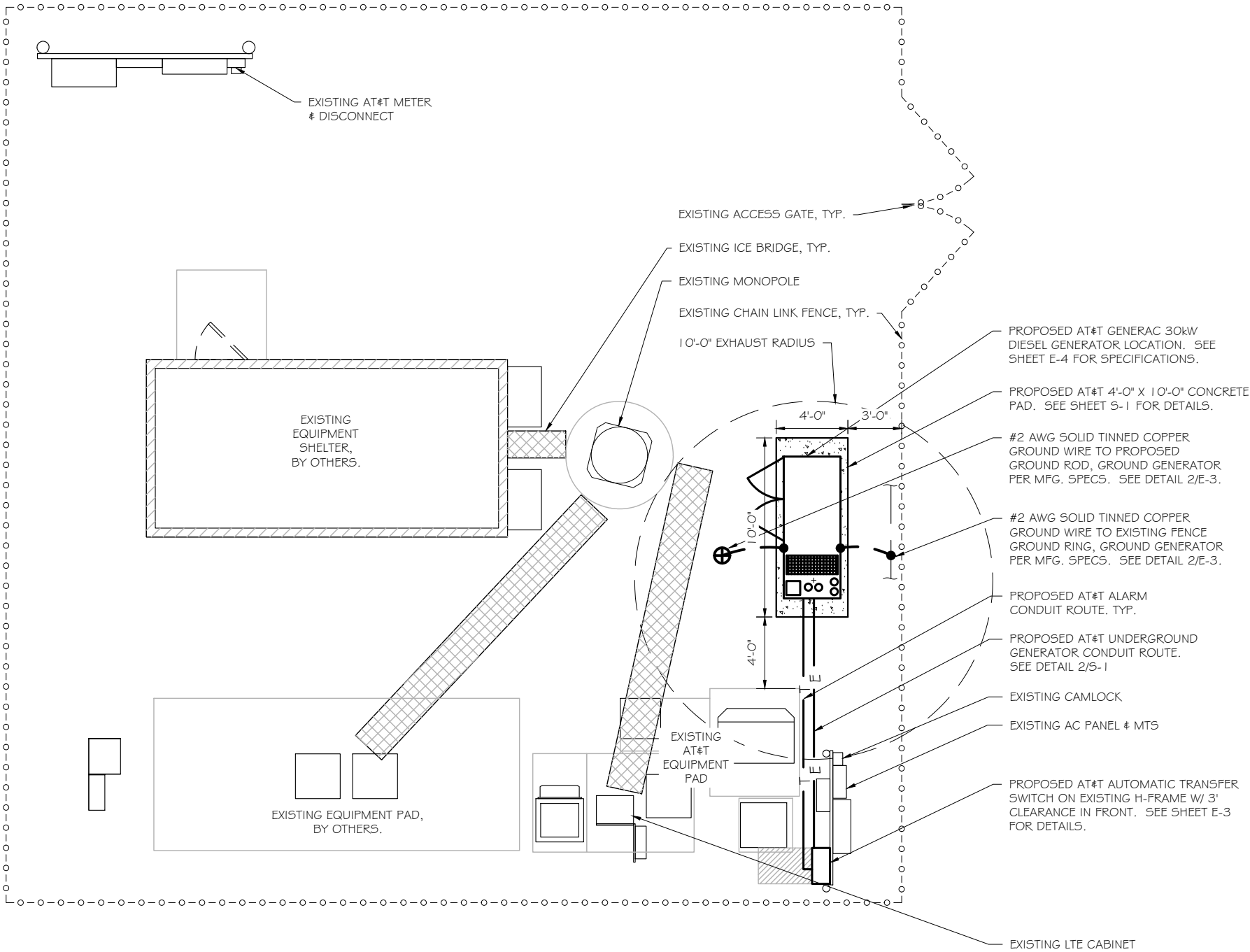
PROJECT NUMBER	54173
SHEET NUMBER	N-1

SCOPE OF WORK DETAILS

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

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

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



SITE PLAN
SCALE: 1" = 7.5'



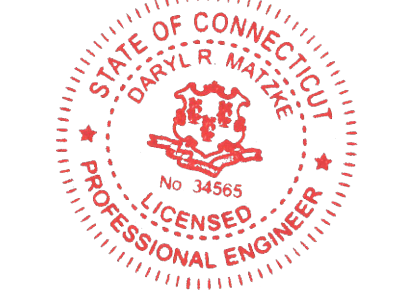

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PREPARED FOR:



CONSULTANT:
GENERAL DYNAMICS
Information Technology, Inc.
GENERAL DYNAMICS
101 STATION DR
WESTWOOD, MA 02090

Certification & Seal:
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Signature:  Date: 12/27/2022

MARK	DATE	DESCRIPTION
ISSUE	FINAL	DATE ISSUED 12/27/2022
PHASE		
PROJECT		
PROJECT TITLE:		

OVERLAY - ENFIELD EAST
FA ID # 10090926

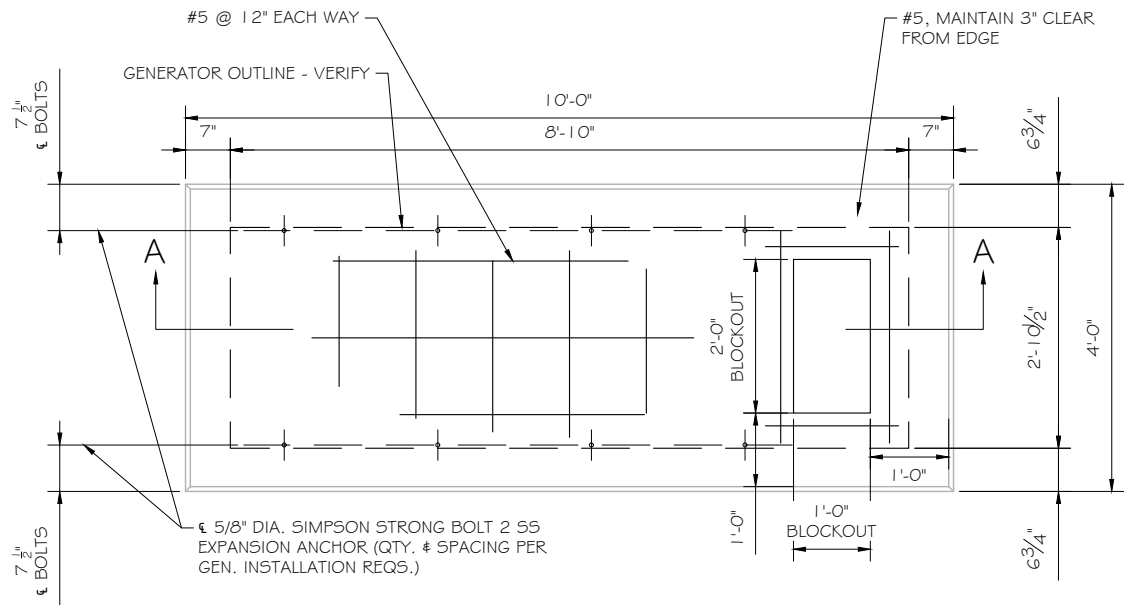
PROJECT INFORMATION:
188 MOODY ROAD
ENFIELD, CT 06082

SHEET TITLE:
SITE PLAN & EQUIPMENT LAYOUT

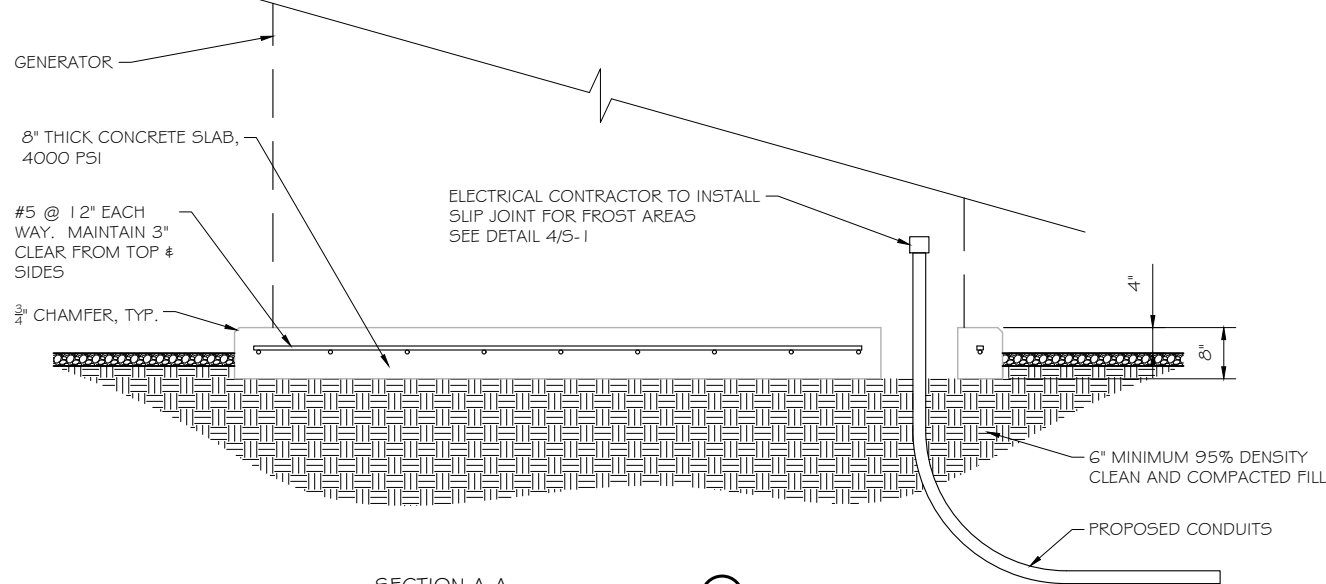
0 3.75' 7.5' 15'

11" x 17" - 1" = 7.5'
22" x 34" - 1" = 3.75'

PROJECT NUMBER 54173
SHEET NUMBER A-1



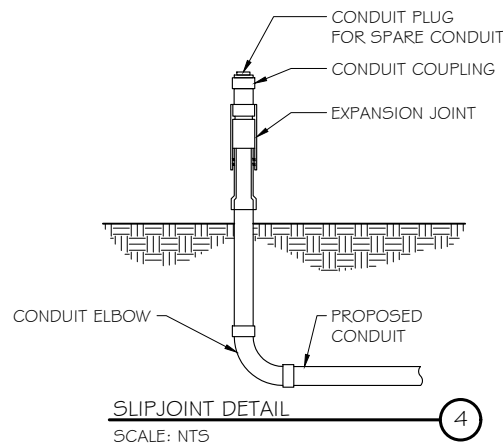
FOUNDATION PLAN
SCALE: NTS



SECTION A-A
SCALE: NTS

DOUBLE WALL FUEL TANK BASE SPECIFICATION

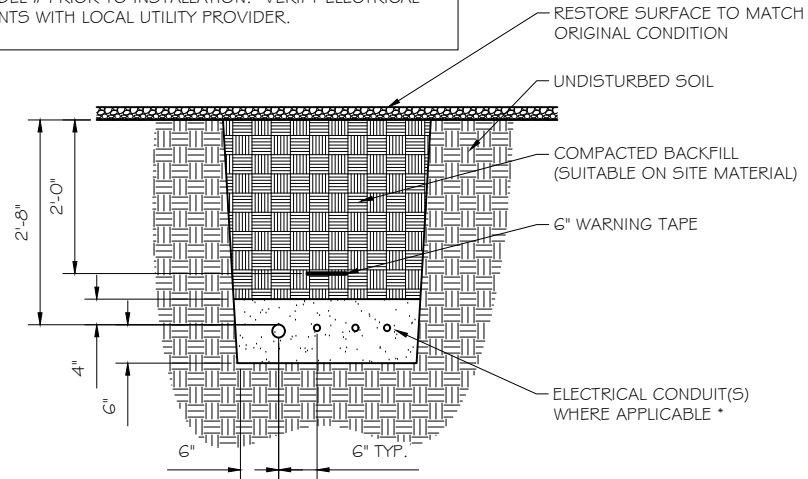
REF: ATT 30KW GENERATOR PACKAGE
UL REGISTRATION NUMBER: MH18459
U.L. 142 DOUBLE WALL FUEL TANK BASE SPECIFICATION
FUEL TANK BASE CONSTRUCTION:
• BE CONSTRUCTED IN ACCORDANCE WITH UNDERWRITERS LABORATORIES STANDARD UL-142. BE CONSTRUCTED IN ACCORDANCE WITH FLAMMABLE & COMBUSTIBLE LIQUIDS CODE, NFPA 30;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



SLIPJOINT DETAIL
SCALE: NTS

NOTE:

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



* SEPARATION DIMENSION TO BE VERIFIED WITH LOCAL UTILITY COMPANY REQUIREMENTS

NOTES:

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

UTILITY CONDUIT TRENCH
SCALE: NTS

STRUCTURAL GENERAL NOTES

- 1.0 GENERAL CONDITIONS
- 1.1 DESIGN & CONSTRUCTION OF ALL WORK SHALL CONFORM TO LOCAL BUILDING CODES, ACI 318-11. IN CASE OF CONFLICT BETWEEN THE CODES, STANDARDS, REGULATIONS, SPECIFICATIONS, GENERAL NOTES AND/OR MANUFACTURER'S REQUIREMENTS, USE THE MOST STRINGENT PROVISIONS.
- 1.2 IT IS THE EXPRESS INTENT OF PARTIES INVOLVED IN THIS PROJECT THAT THE CONTRACTOR OR SUBCONTRACTOR OR INDEPENDENT CONTRACTOR OR THE RESPECTIVE EMPLOYEES SHALL EXCULPATE THE ARCHITECT, THE ENGINEER, TECH. CONSTRUCTION MANAGER, THE OWNER, & THEIR AGENTS FROM ANY LIABILITY WHATSOEVER & HOLD THEM HARMLESS AGAINST LOSS, DAMAGES, LIABILITY OR ANY EXPENSE ARISING IN ANY MATTER FROM THE WRONGFUL OR NEGLIGENT ACT, OR FAILURE TO CARRY METHODS, TECHNIQUES OR PROCEDURES OR FAILURE TO CONFORM TO THE STATE SCAFFOLDING ACT IN CONNECTIONS WITH THE WORK.
- 1.3 DO NOT SCALE DRAWINGS
- 1.4 VERIFY ALL EQUIPMENT MOUNTING DIMENSIONS PER MANUFACTURER DRAWINGS
- 1.5 DESIGN LOADS ARE (GENERAC):
 - LIVE LOAD : 100 PSF
 - EQUIPMENT SIZE : 889.1" H, 106" W, 38" D
 - WEIGHT WITH WOODEN SHIPPING SKID
 - ENCLOSED GENERATOR : 3974 LBS
- 2.0 FOR DESIGN & ANALYSIS OF THE FOUNDATION, THE MINIMUM NET SOIL BEARING CAPACITY SHALL BE ASSUMED TO BE 2000 PSF.
- 3.0 CONCRETE
- 3.1 MEET OR EXCEED THE FOLLOWING CODES & STANDARDS:
 - DESIGN : ACI 318-11
 - CONSTRUCTION : ACI 301
 - DETAILING : CRSI MANUAL OF STANDARD PRACTICE
 - REIN. STEEL : ASTM A 615 GRADE 60, DEFORMED
 - MIXING : ASTM C 94. READY MIX CONCRETE
 - AIR ENTRAINMENT : ACI 318 AND ASTM C-260
 - AGGREGATE : ASTM C 33 AND C 330 (FOR LIGHT WEIGHT)
- 3.2 CONCRETE STRENGTH AT 28 DAYS SHALL BE 4000 PSI MINIMUM
- 3.3 DO NOT FIELD BEND OR WELD TO GRADE 60 REINFORCED STEEL
- 3.4 PROVIDE AIR ENTRAINED CONCRETE WITH AIR CONTENT OF 5 TO 7% FOR ALL CONCRETE EXPOSED TO EARTH OR WEATHER.
- 3.5 MAXIMUM AGGREGATE SIZE: 3/4"
- 3.6 DO NOT USE IN ADMIXTURE, WATER OR OTHER CONSTITUENTS OF CONCRETE WHICH HAS CALCIUM CHLORIDE.
- 3.7 MINIMUM COVER FOR REINFORCING STEEL SHALL BE AS SHOWN ON PLAN.
- 4.0 FOUNDATION & EXCAVATION NOTES
- 4.1 SLAB SHALL BE CONSTRUCTED UPON UNDISTURBED, NATURAL SUBGRADE OR COMPACTED GRANULAR FILL WITH AN ASSUMED MINIMUM NET ALLOWABLE BEARING CAPACITY OF 1800 PSF.
- 4.2 ALL ORGANIC AND/OR OTHER UNSUITABLE MATERIAL SHALL BE REMOVED FRO FOUNDATION & SLAB SUBGRADE & BACKFILL AREAS, & THEN BACKFILLED WITH ACCEPTABLE GRANULAR FILL COMPACTED TO 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT (ASTM D 1557).
- 4.3 THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES TO PREVENT ANY WATER, FROST, OR ICE FROM PENETRATING ANY FOOTING OR STRUCTURAL SUBGRADE BEFORE & AFTER PLACING OF CONCRETE, AND UNTIL SUCH CONCRETE HAS FULLY CURED.



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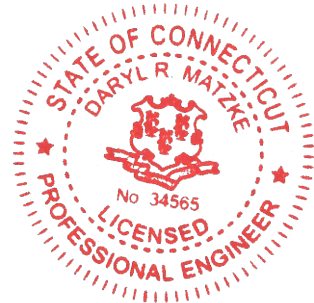


CONSULTANT:
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Information Technology, Inc.

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101 STATION DR
WESTWOOD, MA 02090

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Signature: *[Signature]* Date: 12/27/2022

MARK	DATE	DESCRIPTION

ISSUE PHASE	FINAL	DATE ISSUED	12/27/2022
-------------	-------	-------------	------------

OVERLAY - ENFIELD EAST
FA ID # 10090926

PROJECT INFORMATION:
188 MOODY ROAD
ENFIELD, CT 06082

SHEET TITLE:
FOUNDATION DETAILS

SCALE: NONE

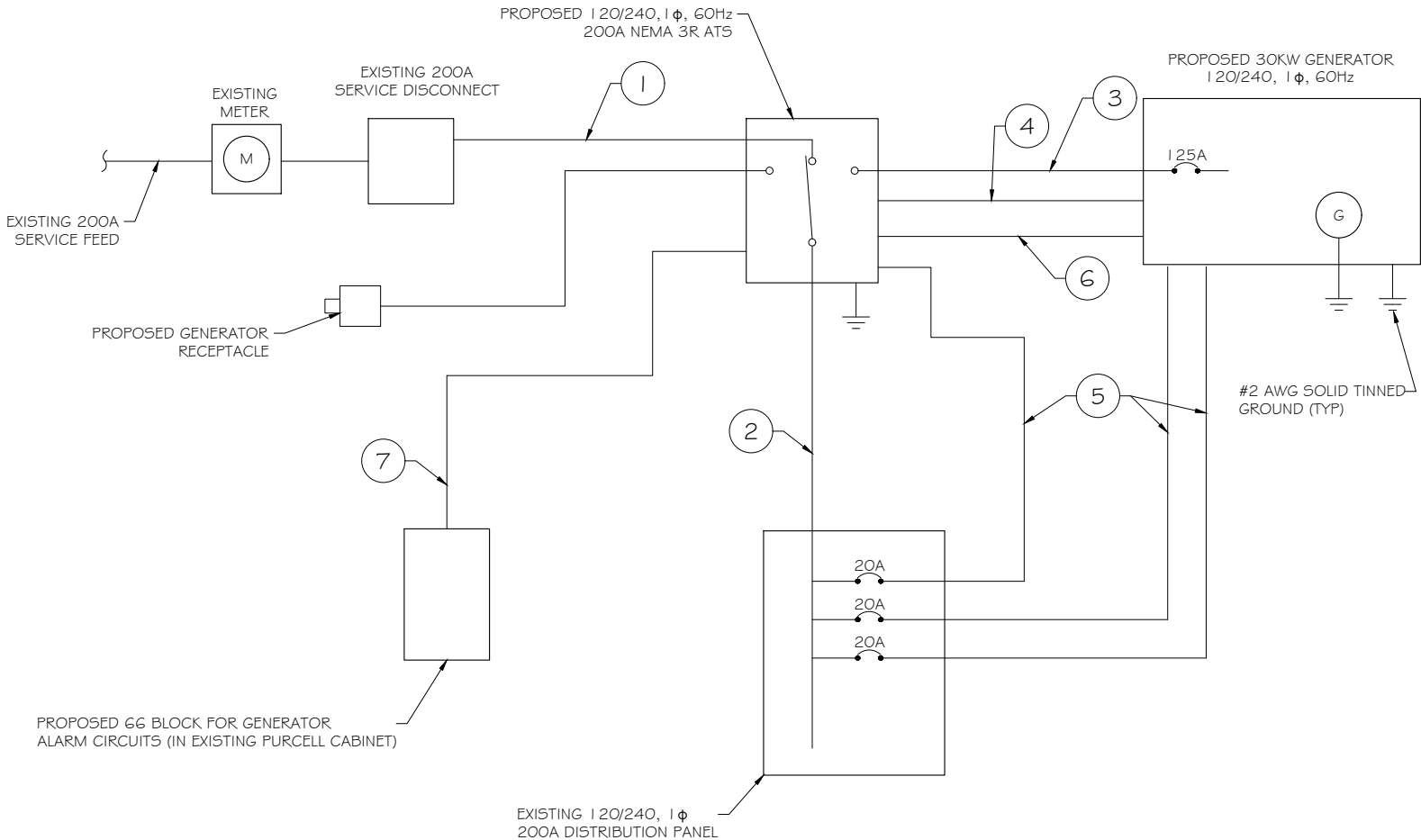
PROJECT NUMBER	54173
SHEET NUMBER	S-1

DIAGRAM CIRCUIT SCHEDULE						
NO.	FROM	TO	WIRES	GROUND	CONDUIT SIZE	FUNCTION
1	NORMAL POWER SOURCE	AUTOMATIC TRANSFER SWITCH	(3) 3/0	(1) #4	2"	NORMAL POWER FEEDER TO ATS (CUT BACK EXISTING)
2	AUTOMATIC TRANSFER SWITCH	LOAD CENTER	(3) 3/0	(1) #4	2"	POWER FEEDER FROM ATS TO PANEL
3	GENERATOR	AUTOMATIC TRANSFER SWITCH	(3) #1	(1) #6	1 - 1/2"	EMERGENCY POWER FEEDER TO ATS
4	AUTOMATIC TRANSFER SWITCH	GENERATOR	(2) #10	(1) #10	1"	START CIRCUIT
5	LOAD CENTER (DISTRIBUTION CENTER)	GENERATOR, ATS	(2) #12 (2) #12 (2) #12	(1) #12 (1) #12 (1) #12	1" 1" 1"	CIRCUIT FOR GENERATOR BLOCK HEATER & BATTERY HEATER CIRCUIT FOR BATTERY CHARGER CIRCUIT FOR ATS
6	GENERATOR	AUTOMATIC TRANSFER SWITCH	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	12-PAIR 24 AWG OR 2EA 6-PAIR CAT5	N/A	1"	ALARM CABLES (1) 12 PAIR 24 AWG (RUN TO PURCELL CABINET & INTO ALARM BOX). PROVIDE 24" OF SLACK CABLE. FINAL PUNCH DOWN IS BY AT&T TECH. LABEL ALL WIRES

CIRCUIT DETAIL
SCALE: NTS

ALARM WIRE IDENTIFICATION CHART	
WIRE	ALARM
BROWN BROWN / WHITE	GENERATOR RUNNING
GREEN GREEN / WHITE	CRITICAL FAULT
BLUE BLUE / WHITE	MINOR FAULT
ORANGE ORANGE / WHITE	LOW FUEL
BROWN * BROWN / WHITE *	FUEL LEAK
*CAT5 CABLE ONLY, FROM 2ND CAT5 CABLE	

ALARM WIRING IDENTIFICATION CHART
SCALE: NTS



PROPOSED WIRING DIAGRAM
SCALE: NTS


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PREPARED FOR:



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Signature: Date:

MARK	DATE	DESCRIPTION
ISSUE	FINAL	DATE ISSUED 12/27/2022
PHASE		
PROJECT TITLE:		

OVERLAY - ENFIELD EAST
FA ID # 10090926

PROJECT INFORMATION:
188 MOODY ROAD
ENFIELD, CT 06082

SHEET TITLE:

WIRING DETAILS

SCALE: NONE

PROJECT NUMBER	54173
SHEET NUMBER	E-1

AC Distribution Panel - Layout Diagram									
Breaker Position	Breaker Type	On/Off	Size	Circuit Label	Breaker Position	Breaker Type	On/Off	Size	Circuit Label
1	2P	ON	50	GE PLANT 1	2	1P	ON	20	GFI & LIGHT
3					4	1P	ON	20	GE PLANT OUTLET
5					6	1P	ON	20	TELCO GFI
7	2P	ON	50	GE PLANT 2	8	1P	ON	30	E911 RECT
9					10	1P	ON	15	E911 HEATER
11					12	2P	ON	50	UMTS
13	2P	ON	50	GE PLANT 4	14				
15					16	1P	ON	20	LTE OUTLET
17	2P	ON	50	GE PLANT 5	18				
19					20				
21					22				
23	2P	ON	50	GE PLANT 6	24				
25					26	1P	ON	20	
27					28	1P	ON	20	
29					30	1P	ON	20	BATTERY CHARGER

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

EXISTING PANEL SCHEDULE

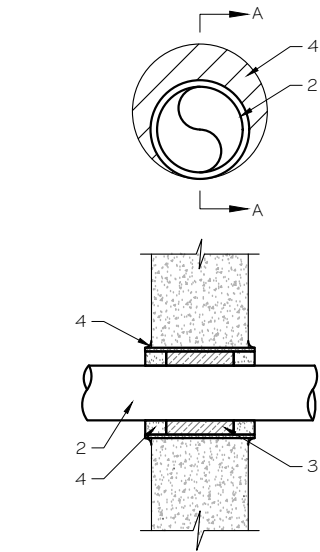
SCALE: NTS

NOTE:

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

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

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



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

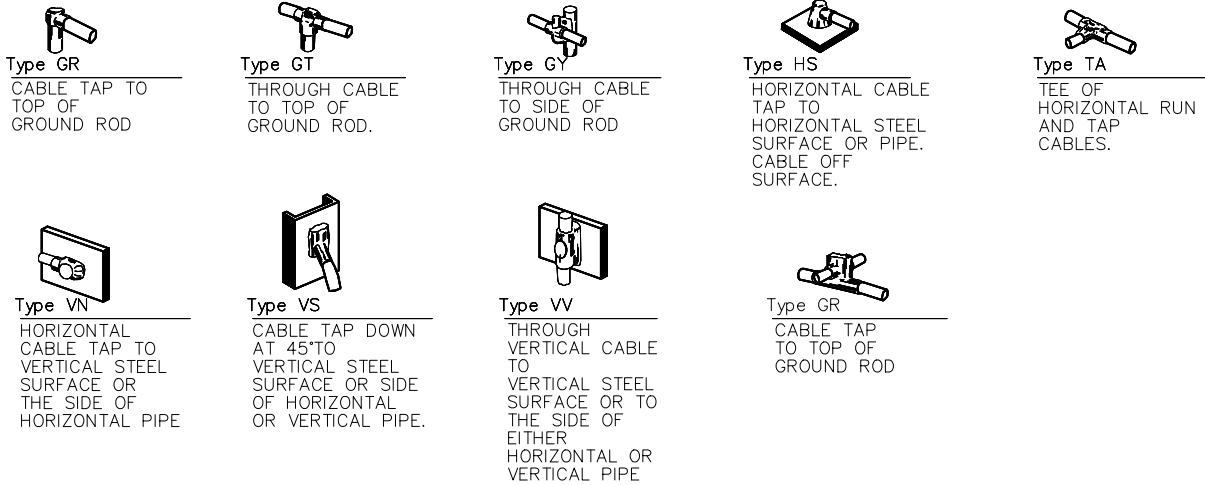
- FLOOR OR WALL ASSEMBLY : MINIMUM 4-1/2" THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAMETER OF OPENING IS 4". SEE CONCRETE BLOCKS 9CATZ) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
- 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

OUTER WALL PENETRATION DETAIL (IF APPLICABLE)

SCALE: NTS



CADWELD DETAILS

SCALE: NTS



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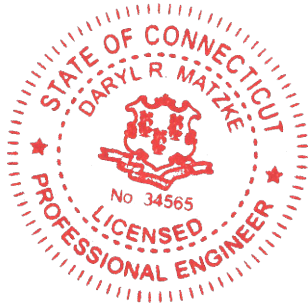
PREPARED FOR:



CONSULTANT:
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PROJECT TITLE:

OVERLAY - ENFIELD EAST
FA ID # 10090926

PROJECT INFORMATION:
188 MOODY ROAD
ENFIELD, CT 06082

SHEET TITLE:
PANEL AND PENETRATION
DETAILS

SCALE: NONE

PROJECT
NUMBER 54173
SHEET
NUMBER E-2

- 1

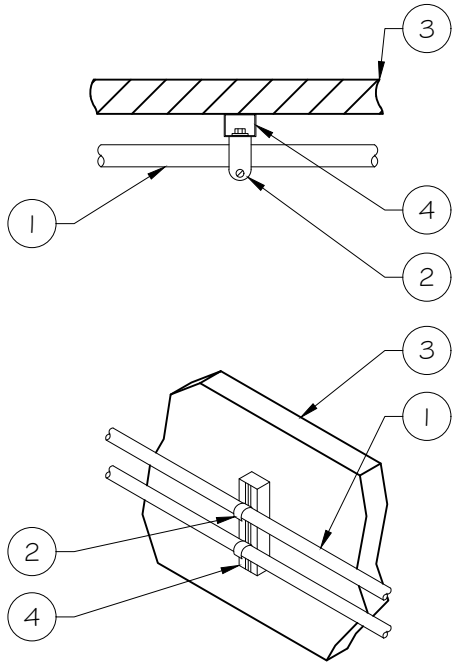
CONDUIT (TYP)
- 2

BUTTERFLY CLAMP AS REQUIRED
- 3

EXISTING WALL/CEILING
- 4

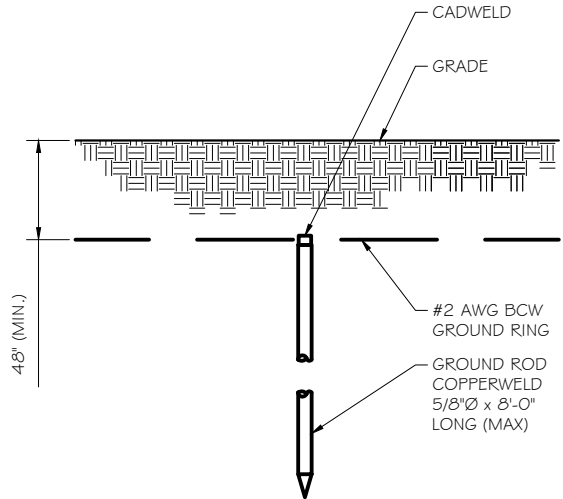
VERTICAL "UNISTRUT" P1000 "T" SERIES
LENGTH BASED ON NUMBER OF
CONDUIT TO BE MOUNTED

WALL CONSTRUCTION TYPE	USE
HOLLOW	3/8" DIA. TOGGLE BOLT
HOLLOW, AT STUD	3/8" DIA. LAG SCREW
CONCRETE BLOCK (HOLLOW)	3/8" DIA. HILTI HY-20 WITH SCREEN, MINIMUM EMBEDMENT 2-1/2"
CONCRETE (SOLID)	3/8" DIA. HILTI HY-150 WITH SCREEN, MINIMUM EMBEDMENT 2-1/2"
NOTE: USE GALVANIZED OR STAINLESS STEEL HARDWARE FOR WALL MOUNT & CONNECTIONS OF CHANNELS SPACE UNITS @ 5'-0" O.C. LENGTH OF RUN	



CONDUIT WALL MOUNT
SCALE: NTS

1



GROUND ROD DETAIL
SCALE: NTS

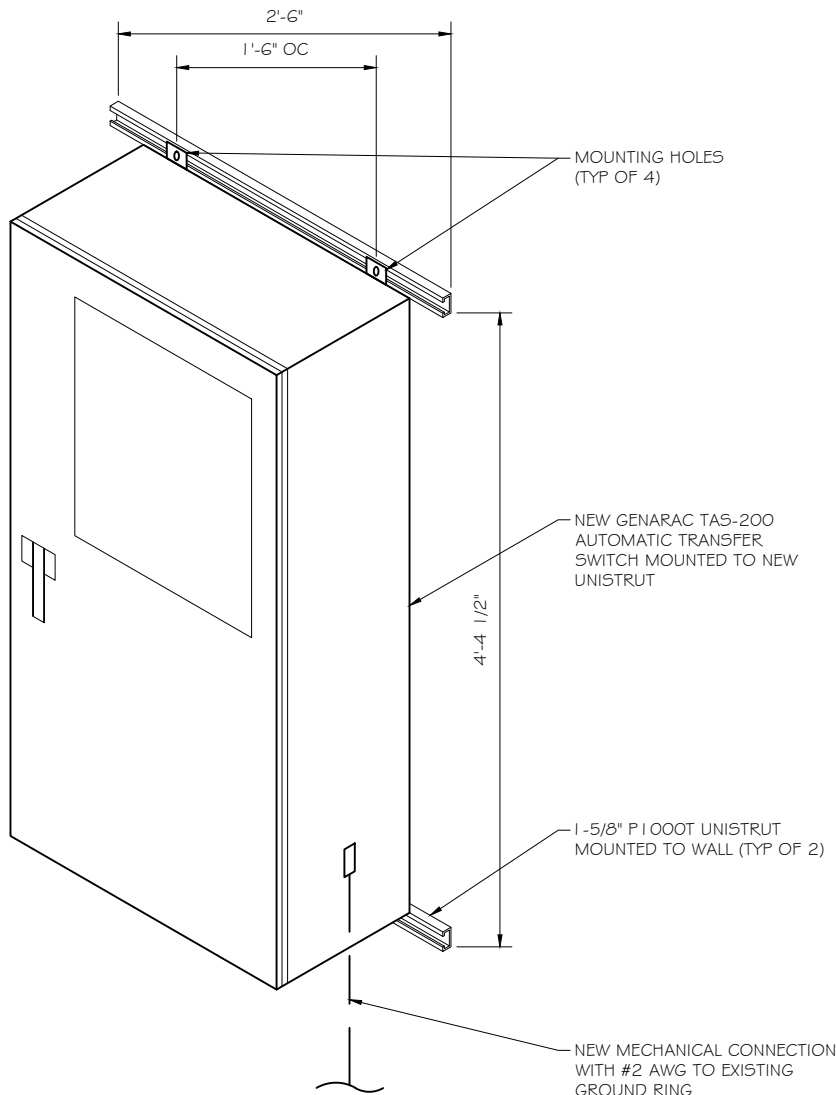
2

WALL CONSTRUCTION TYPE	USE
HOLLOW	3/8" DIA. TOGGLE BOLT
HOLLOW, AT STUD	3/8" DIA. LAG SCREW
CONCRETE BLOCK (HOLLOW)	7/16" DIA. HILTI HY-20 WITH SCREEN MINIMUM EMBEDMENT 2-1/2"
CONCRETE (SOLID)	7/16" DIA. HILTI HY-150 WITH SCREEN MINIMUM EMBEDMENT 2-1/2"

- NOTE:
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 SHELTER WALL



GENERAC ATS MOUNTING DETAIL
SCALE: NTS

3

- NOTE:
1.

GROUND RODS MAY BE:
- COPPER CLAD STEEL
- SOLID COPPER
2.

GROUND RODS SHALL HAVE
A MAXIMUM SPACING TWICE
THE LENGTH OF ROD
SEE RESISTIVITY REPORT
FOR VERIFICATION AS
AVAILABLE
3.

A LARGER CONDUCTOR
SHALL BE REQUIRED IN
AREAS HIGHLY PRONE TO
LIGHTNING AND/OR AREAS
WITH HIGHLY ACIDIC SOIL
4.

GROUND RODS INSTALLED
WITHIN CLOSE PROXIMITY TO
TOWER OR WHEN SOIL IS AT
OR BELOW 2,000 OHM-CM,
SHALL BE GALVANIZED TO
PREVENT GALVANIC
CORROSION OF TOWER,
(SEE ANSI/TIA-EIA-222-G)
5.

PROVIDE (1) GROUND LEAD
TO EACH SIDE OF THE
GENERATOR


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PREPARED FOR:


at&t
Mobility

CONSULTANT:

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PHASE		
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OVERLAY - ENFIELD EAST
FA ID # 10090926

PROJECT INFORMATION:
188 MOODY ROAD
ENFIELD, CT 06082

SHEET TITLE:
ATS, CONDUIT & GROUND ROD
DETAILS

SCALE: NONE

PROJECT NUMBER	54173
SHEET NUMBER	E-3

SD030 | 2.2L | 30 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency



Standby Power Rating
30 kW, 38 kVA, 60 Hz

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



*EPA Certified Prime ratings are not available in the US or its Territories

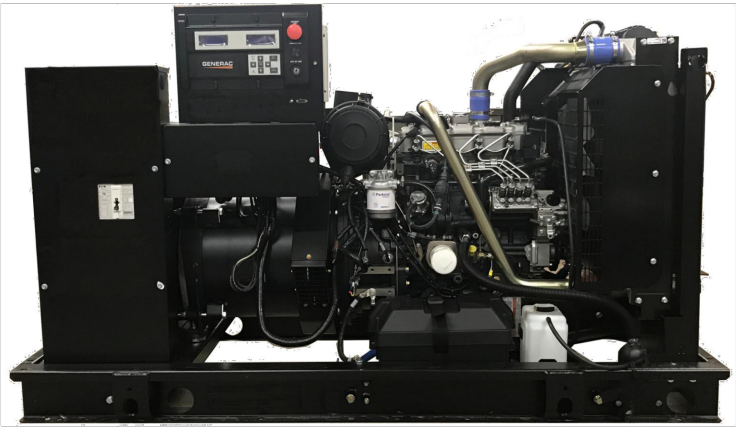


Image used for illustration purposes only

Codes and Standards

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

		UL2200, UL508, UL489, UL142
		CSA C22.2
		BS5514 and DIN 6271
		SAE J1349
		NFPA 37, 70, 99, 110
		NEC700, 701, 702, 708
		ISO 3046, 7637, 8528, 9001
		NEMA ICS10, MG1, 250, ICS6, AB1
		ANSI C62.41

Powering Ahead

For over 50 years, Generac has provided innovative design and superior manufacturing.

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

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

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

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

SD030 | 2.2L | 30 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency



STANDARD FEATURES

ENGINE SYSTEM

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

Fuel System

- Fuel Lockoff Solenoid
- Primary Fuel Filter

Cooling System

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

Electrical System

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

ALTERNATOR SYSTEM

- UL2200 GENprotect™
- Class H Insulation Material
- 2/3 Pitch
- Skewed Stator
- Brushless Excitation
- Sealed Bearing
- Rotor Dynamically Spin Balanced
- Amortisseur Winding (3-Phase Only)
- 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)
- 1 Year Limited Warranty (Prime Rated Units)
- Silencer Mounted in the Discharge Hood (Enclosed Unit Only)

ENCLOSURE (If Selected)

- Rust-Proof Fasteners with Nylon Washers to Protect Finish
- High Performance Sound-Absorbing Material (Sound Attenuation Enclosures)
- Gasketed Doors
- Stamped Air-Intake Louvers
- 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
- Normal and Emergency Vents
- Sloped Top
- Sloped Bottom
- Factory Pressure Tested
- Rupture Basin Alarm
- Fuel Level
- Check Valve In Supply and Return Lines
- RhinoCoat™ - Textured Polyester Powder Coat Paint
- Stainless Steel Hardware

CONTROL SYSTEM



Digital H Control Panel- Dual 4x20 Display

Program Functions

- Programmable Crank Limiter
- 7-Day Programmable Exerciser
- Special Applications Programmable Logic Controller
- RS-232/485 Communications
- All Phase Sensing Digital Voltage Regulator
- 2-Wire Start Capability
- Date/Time Fault History (Event Log)
- Isochronous Governor Control
- Waterproof/Sealed Connectors

- Audible Alarms and Shutdowns
- Not in Auto (Flashing Light)
- Auto/Off/Manual Switch
- E-Stop (Red Mushroom-Type)
- NFPA110 Level I and II (Programmable)
- Customizable Alarms, Warnings, and Events
- Modbus® Protocol
- Predictive Maintenance Algorithm
- Sealed Boards
- Password Parameter Adjustment Protection
- Single Point Ground
- 16 Channel Remote Trending
- 0.2 msec High Speed Remote Trending
- Alarm Information Automatically Annunciated on the Display

Full System Status Display

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

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

Alarms and Warnings

- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Overspeed
- Battery Voltage
- Alarms and Warnings Time and Date Stamped
- Snap Shots of Key Operation Parameters During Alarms and Warnings
- Alarms and Warnings Spelled Out (No Alarm Codes)

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PREPARED FOR:



CONSULTANT:
GENERAL DYNAMICS
Information Technology, Inc.

GENERAL DYNAMICS
101 STATION DR
WESTWOOD, MA 02090

Certification & Seal:
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MARK	DATE	DESCRIPTION
ISSUE	FINAL	DATE ISSUED 12/27/2022
PHASE		
PROJECT TITLE:		

OVERLAY - ENFIELD EAST
FA ID # 10090926

PROJECT INFORMATION:
188 MOODY ROAD
ENFIELD, CT 06082

SHEET TITLE:
GENERAC 30KW GENERATOR
SPECIFICATIONS

SCALE: NONE

PROJECT NUMBER 54173
SHEET NUMBER E-4

SD030 | 2.2L | 30 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

CONFIGURABLE OPTIONS

ENGINE SYSTEM

- Oil Heater
- Critical Silencer (Open Set Only)
- Radiator Stone Guard
- Level 1 Fan and Belt Guards (Open Set Only)

FUEL SYSTEM

- NPT Flexible Fuel Line

ELECTRICAL SYSTEM

- 10A UL Listed Battery Charger
- Battery Warmer

ALTERNATOR SYSTEM

- Alternator Upsizing
- Anti-Condensation Heater
- Tropical Coating
- Permanent Magnet Excitation

GENERATOR SET

- Extended Factory Testing
- 8 Position Load Center
- Pad Vibration Isolation

ENGINEERED OPTIONS

ENGINE SYSTEM

- Coolant Heater Isolation Ball Valves
- Fluid Containment Pan

CONTROL SYSTEM

- Spare Inputs (x4) / Outputs (x4)
- Battery Disconnect Switch

CIRCUIT BREAKER OPTIONS

- Main Line Circuit Breaker
- 2nd Main Line Circuit Breaker
- Shunt Trip and Auxiliary Contact
- Electronic Trip Breakers

ENCLOSURE

- Weather Protected Enclosure
- Level 1 Sound Attenuation
- Level 2 Sound Attenuation
- Level 2 Sound Attenuation with Motorized Dampers
- Steel Enclosure
- Aluminum Enclosure
- Up to 200 MPH Wind Load Rating (Contact Factory for Availability)
- AC/DC Enclosure Lighting Kit
- Door Alarm Switch
- Enclosure Heater
- Damper Alarm Contacts

WARRANTY (Standby Gensets Only)

- 2 Year Extended Limited Warranty
- 5 Year Limited Warranty
- 5 Year Extended Limited Warranty
- 7 Year Extended Limited Warranty
- 10 Year Extended Limited Warranty

ALTERNATOR SYSTEM

- 3rd Breaker System

GENERATOR SET

- Special Testing



SD030 | 2.2L | 30 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General

Make	Perkins
EPA Emissions Compliance	Stationary Emergency
EPA Emissions Reference	See Emission Data Sheet
Cylinder #	4
Type	In-Line
Displacement - in ³ (L)	135 (2.22)
Bore - in (mm)	3.3 (84)
Stroke - in (mm)	3.9 (100)
Compression Ratio	23.3:1
Intake Air Method	Turbocharged
Cylinder Head	Cast Iron
Piston Type	Aluminum
Crankshaft Type	Forged Steel

Engine Governing

Governor	Electronic Isochronous
Frequency Regulation (Steady State)	±0.5%

Lubrication System

Oil Pump Type	Gear
Oil Filter Type	Full-Flow
Crankcase Capacity - qt (L)	11.2 (10.6)

Cooling System

Cooling System Type	Closed Recovery
Water Pump Type	Pre-Lubed, Self Sealing
Fan Type	Pusher
Fan Speed - RPM	1,980
Fan Diameter - in (mm)	18 (457)

Fuel System

Fuel Type	Ultra Low Sulfur Diesel Fuel #2
Fuel Specifications	ASTM
Fuel Filtering (Microns)	5
Fuel Inject Pump	Distribution Injection Pump
Fuel Pump Type	Engine Driven Gear
Injector Type	Mechanical
Fuel Supply Line - in (mm)	0.31 (7.9) ID
Fuel Return Line - in (mm)	0.2 (4.8) ID

Engine Electrical System

System Voltage	12 VDC
Battery Charger Alternator	Standard
Battery Size	See Battery Index 0161970SBY
Battery Voltage	12 VDC
Ground Polarity	Negative

ALTERNATOR SPECIFICATIONS

Standard Model	K0035124Y21
Poles	4
Field Type	Revolving
Insulation Class - Rotor	H
Insulation Class - Stator	H
Total Harmonic Distortion	<5% (3-Phase)
Telephone Interference Factor (TIF)	< 50

Standard Excitation	Brushless
Bearings	Single Sealed
Coupling	Direct via Flexible Disc
Load Capacity - Standby	100%
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Digital
Number of Sensed Phases	All
Regulation Accuracy (Steady State)	±0.25%



PREPARED FOR:



CONSULTANT:

GENERAL DYNAMICS

Information Technology, Inc.

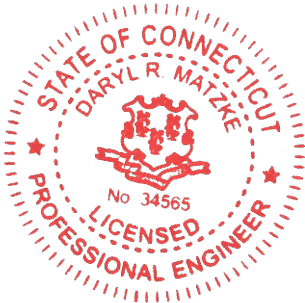
GENERAL DYNAMICS

101 STATION DR

WESTWOOD, MA 02090

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Signature: [Signature]

Date: 1/2/27/2022

MARK	DATE	DESCRIPTION
ISSUE PHASE	FINAL	DATE ISSUED 1/2/27/2022

PROJECT TITLE:

OVERLAY - ENFIELD EAST

FA ID # 10090926

PROJECT INFORMATION:

188 MOODY ROAD

ENFIELD, CT 06082

SHEET TITLE:

GENERAC 30KW GENERATOR

SPECIFICATIONS

SCALE: NONE

PROJECT NUMBER	54173
SHEET NUMBER	E-4.1

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© Copyright 2022 - Ramaker & Associates, Inc. - All Rights Reserved
DRAWN BY: TRB CHECKED BY: MJR

SD030 | 2.2L | 30 kW
INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

OPERATING DATA

POWER RATINGS

Standby		
Single-Phase 120/240 VAC @1.0pf	30 kW	Amps: 125
Three-Phase 120/208 VAC @0.8pf	30 kW	Amps: 104
Three-Phase 120/240 VAC @0.8pf	30 kW	Amps: 90
Three-Phase 277/480 VAC @0.8pf	30 kW	Amps: 45
Three-Phase 346/600 VAC @0.8pf	30 kW	Amps: 36

MOTOR STARTING CAPABILITIES (skVA)

skVA vs. Voltage Dip			
277/480 VAC	30%	208/240 VAC	30%
K0035124Y21	61	K0035124Y21	46
K0040124Y21	76	K0040124Y21	58
K0050124Y21	98	K0050124Y21	75

FUEL CONSUMPTION RATES*

Fuel Pump Lift- ft (m)	Diesel - gph (Lph)	
	Percent Load	Standby
3 (1)	25%	1.0 (3.7)
	50%	1.4 (5.2)
	75%	2.0 (7.5)
	100%	2.8 (10.5)
* Fuel supply installation must accommodate fuel consumption rates at 100% load.		
Total Fuel Pump Flow (Combustion + Return) - gph (Lph)		
16.6 (63)		

COOLING

Standby		
Coolant Flow	gpm (Lpm)	14.9 (56.2)
Coolant System Capacity	gal (L)	2.5 (9.5)
Heat Rejection to Coolant	BTU/hr (kW)	128,638 (136)
Inlet Air	scfm (m³/hr)	2,800 (4,757)
Maximum Operating Ambient Temperature	°F (°C)	122 (50)
Maximum Operating Ambient Temperature (Before Derate)	See Bulletin No. 0199280SSD	
Maximum Radiator Backpressure	in H ₂ O (kPa)	0.5 (0.12)

COMBUSTION AIR REQUIREMENTS

Standby
Flow at Rated Power scfm (m³/min)
88 (2.5)

ENGINE

Standby		
Rated Engine Speed	RPM	1,800
Horsepower at Rated kW**	hp	49
Piston Speed	ft/min (m/min)	1,181 (360)
BMEP	psi (kPa)	159 (1,096)

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

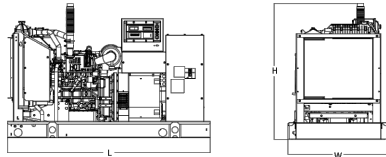
Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions.
Please contact a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528, and DIN6271 standards.
Standby - See Bulletin 0187500SSB
Prime - See Bulletin 0187510SSB

GENERAC INDUSTRIAL POWER

SD030 | 2.2L | 30 kW
INDUSTRIAL DIESEL GENERATOR SET

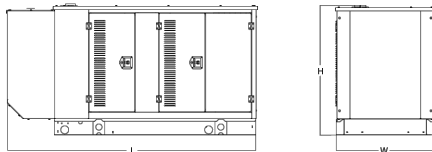
EPA Certified Stationary Emergency

DIMENSIONS AND WEIGHTS*



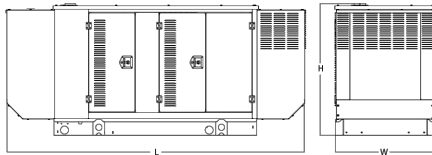
OPEN SET (Includes Exhaust Flex)

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg)
No Tank	-	76.0 (1,930) x 37.4 (950) x 44.8 (1,138)	1,641 (745)
19	54 (204)	76.0 (1,930) x 37.4 (950) x 57.8 (1,468)	2,121 (963)
47	132 (501)	76.0 (1,930) x 37.4 (950) x 69.8 (1,773)	2,351 (1,067)
75	211 (799)	76.0 (1,930) x 37.4 (950) x 81.8 (2,078)	2,560 (1,162)
107	300 (1,136)	92.9 (2,360) x 37.4 (950) x 81.8 (2,078)	2,623 (1,190)



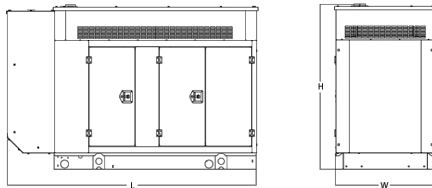
WEATHER PROTECTED ENCLOSURE

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg)	
			Steel	Aluminum
No Tank	-	94.8 (2,409) x 38.0 (965) x 49.5 (1,258)	372 (170)	241 (110)
19	54 (204)	94.8 (2,409) x 38.0 (965) x 62.5 (1,588)		
47	132 (501)	94.8 (2,409) x 38.0 (965) x 74.5 (1,893)		
75	211 (799)	94.8 (2,409) x 38.0 (965) x 86.5 (2,198)		
107	300 (1,136)	94.8 (2,409) x 38.0 (965) x 86.5 (2,198)		



LEVEL 1 ACOUSTIC ENCLOSURE

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg)	
			Steel	Aluminum
No Tank	-	112.5 (2,857) x 38.0 (965) x 49.5 (1,258)	505 (230)	338 (154)
19	54 (204)	112.5 (2,857) x 38.0 (965) x 62.5 (1,582)		
47	132 (501)	112.5 (2,857) x 38.0 (965) x 74.5 (1,893)		
75	211 (799)	112.5 (2,857) x 38.0 (965) x 86.5 (2,198)		
107	300 (1,136)	112.5 (2,857) x 38.0 (965) x 86.5 (2,198)		



LEVEL 2 ACOUSTIC ENCLOSURE

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg)	
			Steel	Aluminum
No Tank	-	94.8 (2,407) x 38.0 (965) x 61.1 (1,551)	510 (232)	341 (155)
19	54 (204)	94.8 (2,407) x 38.0 (965) x 74.1 (1,881)		
47	132 (501)	94.8 (2,407) x 38.0 (965) x 86.1 (2,186)		
75	211 (799)	94.8 (2,407) x 38.0 (965) x 98.1 (2,491)		
107	300 (1,136)	94.8 (2,407) x 38.0 (965) x 98.1 (2,491)		

* 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.

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Part No. 10000024842
Rev. B 08/27/18

SPEC SHEET

5 of 6

GENERAC 30KW GENERATOR SPECIFICATIONS
SCALE: NTS

1



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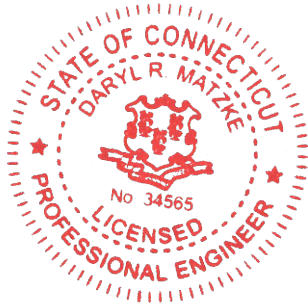


CONSULTANT:
GENERAL DYNAMICS
Information Technology, Inc.

GENERAL DYNAMICS
101 STATION DR
WESTWOOD, MA 02090

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OVERLAY - ENFIELD EAST
FA ID # 10090926

PROJECT INFORMATION:
188 MOODY ROAD
ENFIELD, CT 06082

SHEET TITLE:

GENERAC 30KW GENERATOR
SPECIFICATIONS

SCALE: NONE

PROJECT NUMBER 54173
SHEET NUMBER E-4.2

SPEC SHEET

6 of 6

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TTS Series
Switches

200 Amps
600 VAC

GENERAC® INDUSTRIAL
POWER

TAS200

200A Automatic Transfer Switch

TAS200
TAS200

1 of 3 2 of 3

The Generac TAS200 Automatic Transfer Switch

Flexibility for multiple application installations

Multiple generator support with 3 source panel

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

Camlock functionality for mobile generator sources



Image used for illustration purposes only.

Features

- STEEL CONSTRUCTION
- NEMA 3R ENCLOSURE WITH HINGED “PADLOCKING” DOORS
- STAINLESS STEEL HARDWARE
- CAMLOCK “QUICK CONNECT” CAPABILITY
- OPERATIONAL STATUS VIEW VIA 6 INCH TOUCH SCREEN
- TEST FUNCTION - FAST TEST & NORMAL TEST
- UL1008 LISTED - FOR EMERGENCY SYSTEMS

Optional Features

- EXTENDED WARRANTY
- THREE-PHASE VOLTAGE CONFIGURATIONS

Codes and Standards

Generac products are designed to the following standards:



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



NEC 700, 701 and 702



NEMA 250

Application and Engineering Data

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

Electrical Specifications	
Voltage/Phase/Amps	120/240 Single-Phase, 200A 120/208 3-Phase, 200A 120/240 3-Phase, 200A
Breaker	Eaton 200 amp Utility Breaker Eaton 200 amp Generator Breaker
Maximum RMS Symmetrical Fault Current - Amps	25k AIC Rated
Protective Device Continuous Rating (Max) Amp	200
Input to Generator	350MCM - #6 AWG
Output to Site	350MCM - #6 AWG
Generator Annunciator Connector	Deutsch DTM04-12PA-L012
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

Camlock Component	
Camlock Component	Shipped loose for multiple installation options
Dimensions	9" W x 9.4" D x 24.25" H
200A Camlock Generator Connection	Single-Phase: Black L1, Red L2, White-Neutral, Green-Ground
	3-Phase: Black L1, Red L2, Blue L3, White-Neutral, Green-Ground
	Uses 4 CH E1016 Male Connectors
	Mating Connector – CH E1016 Female



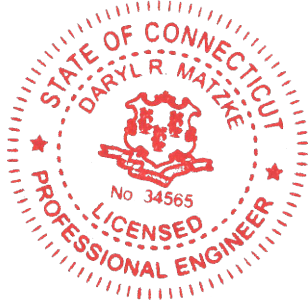
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OVERLAY - ENFIELD EAST
FA ID # 10090926

PROJECT INFORMATION:
188 MOODY ROAD
ENFIELD, CT 06082

SHEET TITLE:
GENERAC ATS SPECIFICATIONS

SCALE: NONE

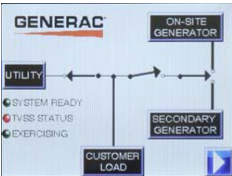
PROJECT NUMBER	54173
SHEET NUMBER	E-5

TTS Control Systems

TAS200

3 of 3

Touch Screen Interface



INDICATORS AND BUTTONS

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

DETAILS SCREEN

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



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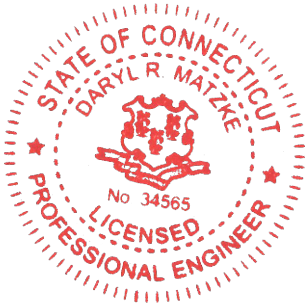
PREPARED FOR:



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188 MOODY ROAD
ENFIELD, CT 06082

SHEET TITLE:

GENERAC ATS SPECIFICATIONS

SCALE: NONE

PROJECT NUMBER	54173
SHEET NUMBER	E-5.1

ATTACHMENT 2

CT-0054
TAB 11

ZONING CERTIFICATE - SPECIAL USE PERMIT -

Planning and Zoning File PH 2157

OWNERS OF RECORD (Grantors): - Troiano Realty Corp.

PREMISES: 188 Moody Road (Assessors Map 100, Lot #12), Enfield, CT

More particularly described on a Site Plan entitled: *

"CT-0054 Enfield Indust. Park Moody Road, Enfield, CT, Zoning Documents, Title Sheet & Index" Sheet T-1, Scale: "As noted" by Diversified Technology Consultants, dated 12/2/99.

"CT-0054 Enfield Indust. Park Moody Road, Enfield, CT, Zoning Documents, Plot Plan" Sheet A-1, Scale: "As noted" by Diversified Technology Consultants, dated 12/2/99.

"CT-0054 Enfield Indust. Park Moody Road, Enfield, CT, Zoning Documents, Proposed Site Plan & Elevations" Sheet Z-1, Scale: "As noted" by Diversified Technology Consultants, dated 11/2/99.

"CT-0054 Enfield Indust. Park Moody Road, Enfield, CT, Zoning Documents, Erosion & Sediment Control Plan" Sheet Z-2, Scale: "As noted" by Diversified Technology Consultants, dated 11/2/99 and revised to 1-20-00.

"CT-0054 Enfield Indust. Park Moody Road, Enfield, CT, Zoning Documents, Detailed Sections" Sheet Z-3, Scale: "As noted" by Diversified Technology Consultants, dated 12/2/99.

"CT-0054 Enfield Indust. Park Moody Road, Enfield, CT, Zoning Documents, Equipment Shelter Elevations & Notes" Sheet Z-4, Scale: "As noted" by Diversified Technology Consultants, dated 12/2/99.

*Revision dates subject to change with final mylar approval.

I, Elizabeth A. Ballard, Secretary, hereby certify that on February 3, 2000, the Planning and Zoning Commission of the Town of Enfield did approve PH # 2157 - Application of Nextel Communications of the Mid-Atlantic, Inc. for a Special Permit under Section 14 and Section 16 to allow the construction of a personal wireless telecommunications facility with a 180 foot high monopole tower to be located at 188 Moody Road (Assessors Map 100, Lot #12) on property zoned I-1, Troiano Realty Corp., owner. This approval is subject to conformance with the referenced plans, as may be required to be modified by this motion, and the following conditions:

Conditions to be Met Prior to Signing of Mylars:

1. All plans submitted for signature shall require the seal and live signature of the appropriate professional(s) responsible for the preparation of the plans.

2. The conditions of this approval shall be binding on the applicant, land owners, and their successors and assigns. A copy of this approval motion shall be filed on the land records prior to the signing of the plans.

Conditions to be met prior to the issuance of permits:

3. Two sets of final plans, with any required revisions incorporated on the sheets, shall be submitted to signature to the Commission.
4. An engineering bond for removal of the wireless telecommunications facility including the tower and base components in an amount to be determined by the Town Engineer shall be submitted to the Town. Any need to use the bond by the Town of Enfield shall be binding in the site regardless of the name of the bond obligee.
5. The applicant shall post a bond for any required Site improvements in an amount to be determined by the Town Engineer and with surety acceptable to the Town.
6. A Separate Erosion and Sediment Control passbook shall be submitted in an amount to be determined by the Town Engineer.
7. A landscaping bond, in an amount to be determined by the Planning Department shall be submitted to the Town.
8. A pre-construction meeting between the applicant, site contractors, project engineer and Town Staff shall be held.

Conditions which must be met prior to the Issuance of a Zoning Certificate of Compliance:

9. Complete as-built plans certified to Class A-2 accuracy shall be submitted prior to the issuance of any certificates of zoning compliance.

General Conditions:

10. This approval is for the specific use and structures identified in the application. Any changes or additions to the site and the structures will require new approvals from the Enfield Planning and Zoning Commission in addition to any other required State approvals.
11. The wireless communication facility shall not interfere with existing or proposed public safety communications, commercial television and radio signals or other forms of communication transmissions. Any such interference shall void the approval of the facility.
12. The wireless communication facility shall comply with the standards promulgated by the federal communication commission (FCC).
13. All generators installed in conjunction with the wireless communications facility shall comply with all state and local noise regulations.
14. On or before August 31 every year, the applicant or Wireless Telecommunications Service Provider shall submit information to the Planning and Zoning Commission file for annual review in support of the following:

- A. Maintenance of facilities - A certified inspection report shall be filed to ensure the continuing structural integrity of the Tower and accessory structures. If the report recommends that repairs or maintenance are required, then a letter shall be submitted to the Town to verify that such repairs and/or maintenance have been completed. The Town of Enfield may require repair or removal of the Tower based on the inspection report. The Town shall have no responsibility regarding such repairs and/or maintenance. Existing non-conforming Towers shall be subject to current approval requirements if replacement is required.
- B. Continued use - An affidavit of continuing use of the Wireless Communication Facility to establish renewal and continuation of the Special Use Permit.
- C. Propagation Plan - A system wide plan showing a regional perspective of Wireless Communications Facilities, both existing and proposed accompanied by a narrative explanation of the service provider's strategic plan for the ensuing year.
- D. Copies of all reports filed with the FCC or the Connecticut Siting Council on EMF emissions shall be filed with the Planning and Zoning Commission. Automatic revocation of any approval given under this Chapter shall result for any Wireless Communication Facility that reports EMF emissions exceeding FCC standards.

- 15. If the wireless communications facility is not in use for 12 consecutive months, it shall be removed within 90 days from the end of such 12 month period, including base components by the last service provider using the site or owner, whichever has a contractual obligation to perform the removal. The site shall be restored to an appearance that is compatible with the surrounding neighborhood and where appropriate, re-vegetated to blend with the surrounding area.
- 16. The special use permit for a commercial wireless telecommunication service shall be valid for a maximum period of 10 years (February 3, 2010) with a right of reapplication under regulations in effect at that time.
- 17. The applicant, and his successors and assigns shall maintain the antennae and related facilities in a manner to blend in with the tower so as to minimize any visual intrusion into the surrounding properties.
- 18. Arrangements shall be made with the Fire Department regarding emergency access to the compound.
- 19. The approval of an application for special use permit shall be void and of no effect unless construction of the project commences within one year from the date of the approval granted by the commission, (February 3, 2001) in accordance with section 14-10.2 of the zoning ordinance.
- 20. By acceptance of this permit and conditions, the applicant and owner acknowledge the right of Town staff to periodically enter upon the subject property for the purpose of determining compliance with the terms of this approval.

The reasons for approval of the use and the decision about the Site Plan, including any conditions relating to either, are part of the record of the February 3, 2000 meeting of the Planning and Zoning Commission.

In accordance with Section 8-3c and Section 8-3d of Connecticut General Statutes as amended, the effective date of this approval shall be the date of recording of this Certificate on the land records of the Enfield Town Clerk.

Dated at Enfield, Connecticut this 2 day of March, 2000.

ENFIELD PLANNING AND ZONING COMMISSION

Elizabeth A. Ballard

Elizabeth A. Ballard, Secretary

RECORDED IN
ENFIELD LAND RECORDS

2000 MAR -7 PM 3:12

Suzanne F. Olechnicki

SUZANNE F. OLECHNICKI
TOWN CLERK

I HEREBY CERTIFY A TRUE COPY OF AND
PAGE 30011 Certificate
IS RECORDED IN THE ENFIELD LAND RECORDS.
DATED AT ENFIELD, CT March 7, 2000
ATTEST: Kirsten G. Montemayor
KIRSTEN G. MONTEMAYOR, ASST TOWN CLERK



TOWN OF ENFIELD

WETLANDS PERMIT

CERTIFIED MAIL Z 022 035 532

December 9, 1999

John W. Knuff, Esq.
Hurwitz & Sagarin LLC
147 North Broad Street
Milford CT 06460

Dear Mr. Knuff:

At the December 7, 1999 Meeting of the Enfield Conservation Commission (Inland Wetland and Watercourses Agency), the following action was taken:

IW# 317 - Application of Nextel Communications of The Mid-Atlantic, Inc., for regulated activities associated with the construction of a wireless telecommunication monopole, equipment shed and yard to be located in the rear of the Troiano Industrial Park on Moody Road - Approved with conditions:

The permit is issued subject to the following conditions and/or modifications:

1. The permittee shall notify the Planning Department at 253-6358 immediately upon the commencement of work and upon its completion.
2. If the authorized activity has not been initiated before December 7, 2000 this permit shall be null and void if not previously revoked or specifically extended. The duration of the permit once initiated shall be 5 years from the date of approval.
3. All work and all regulated activities conducted pursuant to his authorization shall be consistent with these terms and conditions of this permit. Any structures, excavation, fill, obstruction, encroachments or regulated activities not specifically identified and authorized herein shall constitute a violation of this permit and may result in its modification, suspension, or revocation. Upon initiation of the activities authorized herein, the permittee thereby accepts and agrees to comply with the terms and conditions of this permit.
4. The authorization is not transferable without the written consent of the Enfield Conservation Commission.
5. In evaluating this application, the Commission has relied on information provided by the applicant and, if such information subsequently proves to be false, deceptive, incomplete and/or inaccurate this permit shall be modified, suspended or revoked.

820 Enfield Street/Enfield, Connecticut 06082/(860) 253-6300

EW #317

Page Two

December 9, 1999

6. This permittee shall employ best management practices, consistent with the terms and conditions of the permit, to control stormwater discharges and to prevent erosion and sedimentation and to otherwise prevent pollution of wetlands or watercourses. For information and technical assistance, contact the Town Planner. The permittee shall immediately inform the Planning Department of any problems involving wetlands or watercourses which have developed in the course of, or which are caused by, the authorized work.
7. No equipment or material including without limitation, fill, construction materials, or debris, shall be deposited, placed, or stored in any wetland or watercourse on or off site unless specifically authorized by this permit.
8. This permit is subject to and does not derogate any present or future property rights or other rights or powers of the Town of Enfield, and conveys no property rights or in real estate of material nor any exclusive privileges, and is further subject to any and all public and private rights and to any activity affected hereby.
9. Timely implementation and maintenance of sediment and erosion control measures are a condition of this permit. (All sediment and erosion control measures must be maintained until all disturbed areas are stabilized.)
10. A pre-construction meeting shall be held prior to the commencement of any construction activities on the site with the applicant, contractor, and Town staff.
11. A second sentence shall be added to note 9 of the Erosion and Sediment Control Narrative to read: "If weather, or other conditions, prevent seeding; hay will be spread over all exposed areas to a minimum of one inch in thickness".
12. A phrase shall be added to the end of note 13, of the Excavation and Grading Notes stating, "and shall not at any time in the future".
13. With the exception of the addition of the items stated in these conditions, this application is approved in accordance with the plans titled, "NEXTEL Communication of the Mid-Atlantic, Inc., 100 Corporate Place, Rocky Hill, CT 06067, Diversified Technology Consultants, 556 Washington Avenue, North Haven, CT 06473, Enfield, Troiano Industrial Park, Moody Road, Enfield, CT., Wetlands Documents, Erosion & Sedimentation Control Plan ... Sheet: W2". Any changes, such as enlargement or alteration to the building footprint, from the plans shall require the permittee to come before the Enfield Conservation Commission for a Determination of Permit Need (Jurisdictional Ruling).

LW #317
Page Three
December 9, 1999

This authorization constitutes the permit required by Section 22a-39 of the Connecticut General Statutes.

If you have any questions concerning this permit, please contact the Planning department at 253-0558.

Very truly yours,



Jay O Northrup
Assistant Town Planner

JOP/vch

cc: Applicant File
ECC Correspondence

188 MOODY RD

Location	188 MOODY RD	Mblu	100/ / 0012/ /
Acct#	001600020130	Owner	TROIANO REALTY CORP
Assessment	\$1,062,940	Appraisal	\$1,518,470
PID	2238	Building Count	1
Fire District	3		

Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2020	\$812,550	\$705,920	\$1,518,470
Assessment			
Valuation Year	Improvements	Land	Total
2020	\$568,790	\$494,150	\$1,062,940

Owner of Record

Owner	TROIANO REALTY CORP	Sale Price	\$0
Co-Owner		Certificate	1
Address	0777 ENFIELD ST ENFIELD, CT 06082	Book & Page	0305/0468
		Sale Date	

Ownership History

Ownership History				
Owner	Sale Price	Certificate	Book & Page	Sale Date
TROIANO REALTY CORP	\$0	1	0305/0468	

Building Information

Building 1 : Section 1	
Year Built:	1965
Living Area:	10,980
Replacement Cost:	\$490,290
Building Percent Good:	37

Replacement Cost
Less Depreciation: \$181,410

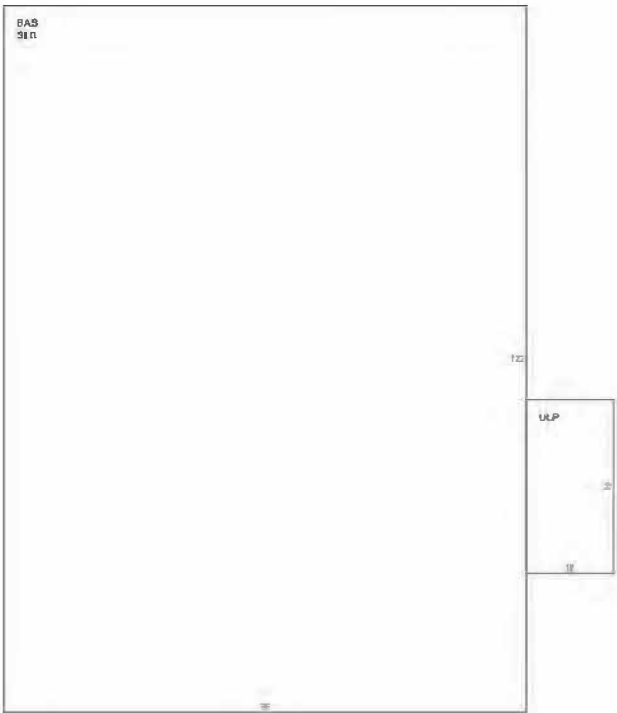
Building Attributes	
Field	Description
Style:	Industrial Flex Bldg
Model	Ind/Comm
Grade	Average
Stories:	1
Occupancy	3.00
Exterior Wall 1	Pre-finish Metl
Exterior Wall 2	
Roof Structure	Gable
Roof Cover	Metal/Tin
Interior Wall 1	Minim/Masonry
Interior Wall 2	
Interior Floor 1	Vinyl/Asphalt
Interior Floor 2	
Heating Fuel	Gas
Heating Type	Forced Air-Duc
AC Type	None
Struct Class	2.51
Bldg Use	Industrial
Total Rooms	
Total Bedrms	
Total Baths	
Total H Bths	
Extra Fixtures	
1st Floor Use:	
Heat/AC	None
Frame Type	Steel
Baths/Plumbing	Average
Ceiling/Wall	None
Rooms/Prtns	Average
Wall Height	15.00
% Comn Wall	

Building Photo



(http://images.vgsi.com/photos2/EnfieldCTPhotos/A00\01\95\47.JPG)

Building Layout



(ParcelSketch.ashx?pid=2238&bid=2238)

Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	10,980	10,980
SLB	Slab	10,980	0
ULP	Uncvr'd Loading Platform	450	0
		22,410	10,980

Extra Features

Extra Features	Legend
No Data for Extra Features	

Land

Land Use		Land Line Valuation	
Use Code	301	Size (Acres)	15.10
Description	Industrial	Frontage	
Zone	I-1	Depth	
Neighborhood	C500	Assessed Value	\$494,150
Alt Land Appr	No	Appraised Value	\$705,920
Category			

Outbuildings

Outbuildings						Legend
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
PAV1	Paving	AS	Asphalt	32200.00 S.F.	\$5,540	1
TNK2	Tank - Oil			500000.00 GALS	\$240,000	1
FN2	FENCE-6' CHAIN			900.00 L.F.	\$1,220	1
TWR3	Cell Twr3 Carriers			1.00 UNITS	\$384,380	1

Valuation History

Appraisal			
Valuation Year	Improvements	Land	Total
2020	\$812,550	\$705,920	\$1,518,470
2019	\$1,168,800	\$705,920	\$1,874,720
2018	\$1,168,800	\$705,920	\$1,874,720

Assessment			
Valuation Year	Improvements	Land	Total
2020	\$568,790	\$494,150	\$1,062,940
2019	\$818,160	\$494,150	\$1,312,310
2018	\$818,160	\$494,150	\$1,312,310

ATTACHMENT 3

ORIGIN ID:GAA (301) 266-0258
CATHERINE CONKLIN
GENERAL DYNAMICS
4603 KEMPER STREET

ROCKVILLE, MD 20853
UNITED STATES US

SHIP DATE: 05JAN23
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CAD: 105486753/NET4530

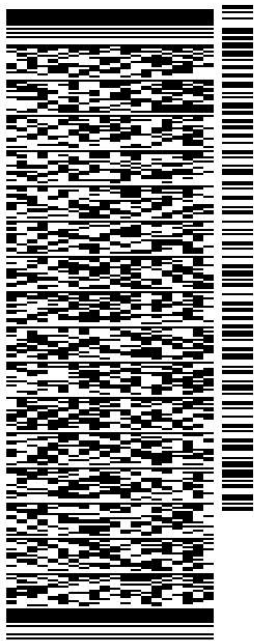
BILL SENDER

TO **MATTHEW DAVIS**
TOWN OF ENFIELD - TOWN PLANNER
820 ENFIELD STREET

ENFIELD CT 06082

REF: (860) 253-6368
INV/ PO: DEPT:

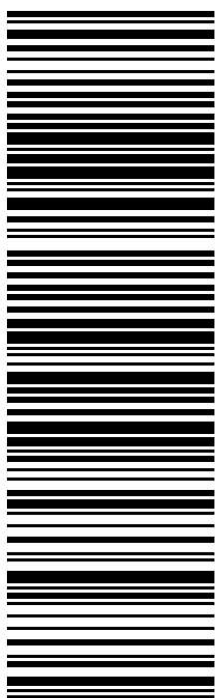
581J2/D297/FE2D



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January 10, 2023

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Shipping Information:

Tracking number:	770951387939	Ship Date:	Jan 5, 2023
		Weight:	2.0 LB/0.91 KG
Recipient:		Shipper:	
ENFIELD, CT, US,		ROCKVILLE, MD, US,	

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CATHERINE CONKLIN
GENERAL DYNAMICS
4603 KEMPER STREET

SHIP DATE: 05JAN23
ACTWGT: 2.00 LB
CAD: 105486753/NET4530

ROCKVILLE, MD 20853
UNITED STATES US

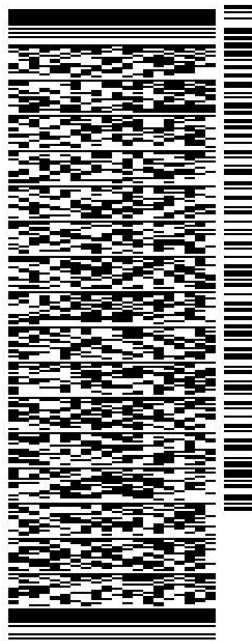
BILL SENDER

TO ELLEN ZOPPO-SASSU
TOWN OF ENFIELD - MANAGER
820 ENFIELD STREET

581J2/D297/FE2D

ENFIELD CT 06082

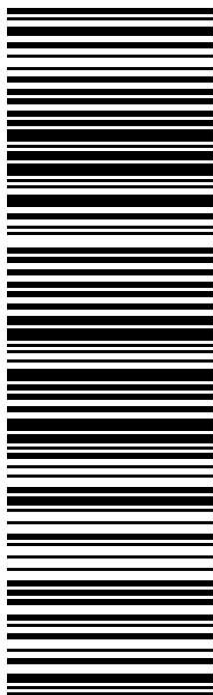
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January 10, 2023

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Special Handling:	Deliver Weekday		ENFIELD, CT,
		Delivery date:	Jan 6, 2023 09:17

Shipping Information:

Tracking number:	770951373531	Ship Date:	Jan 5, 2023
		Weight:	2.0 LB/0.91 KG
Recipient:		Shipper:	
ENFIELD, CT, US,		ROCKVILLE, MD, US,	

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CATHERINE CONKLIN
GENERAL DYNAMICS
4603 KEMPER STREET

ROCKVILLE, MD 20853
UNITED STATES US

SHIP DATE: 05JAN23
ACTWGT: 2.00 LB
CAD: 105486753/NET4530

BILL SENDER

TO TROIANO REALTY CORP

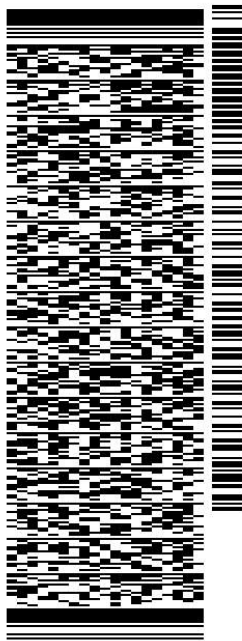
777 ENFIELD STREET

ENFIELD CT 06082

REF: (860) 253-6368

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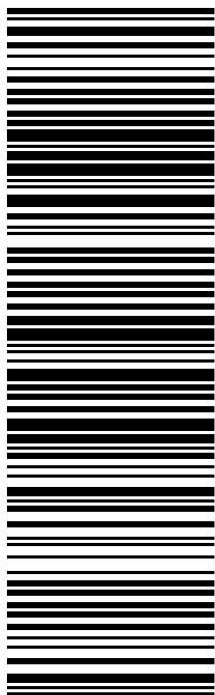


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Special Handling:	Deliver Weekday		ENFIELD, CT,
		Delivery date:	Jan 6, 2023 09:15

Shipping Information:

Tracking number:	770954406801	Ship Date:	Jan 5, 2023
		Weight:	2.0 LB/0.91 KG
Recipient:		Shipper:	
ENFIELD, CT, US,		ROCKVILLE, MD, US,	

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