# **GDIT**

May 31, 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 107 Stickney Hill Road, Union, CT 06076 Lat.: 41.98538110; Long.: -072.19216610

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 107 Stickney Hill Road in the Town of Union, Connecticut. The underlying property is owned by Margaret M. Harrison and tower is owned by American Towers Corp. 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 David Eaton, Town of Union First Selectman, Lee Ann Fitzgerald, Planning & Zoning, and Property and Tower Owners as stated above. Certification of Service is enclosed as Attachment 3.

# **GDIT**

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:

David Eaton, First Selectman Town Hall 1043 Buckley Highway Union, CT 06076 (860) 684-3812

Lee Ann Fitzgerald, Planning & Zoning Town Hall 1043 Buckley Highway Union, CT 06076 (860) 684-3812

Margaret M. Harrison, Property Owner 145 Mihaliak Road Willington, CT 06279 (860) 684-4686

American Towers Corp., Tower Owner via email

# **ATTACHMENT 1**



## SITE NAME: UNION-STICKNEY HILL FA LOCATION CODE: 10035011 **ATC SITE #: CT-209144**

# **GENERATOR PROJECT 30KW GENERAC DIESEL GENERATOR 200A GENERAC ATS**

# 107 STICKNEY HILL ROAD **UNION, CT 06076**

# VICINITY MAP SITE LOCATION (190) Union

#### 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

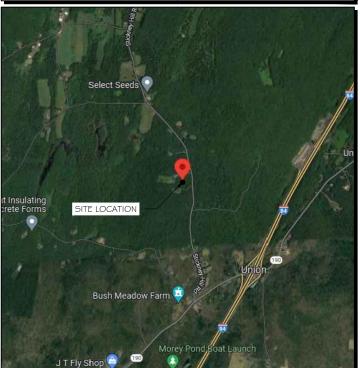
NI WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITION OF THE FOLLOWING CODES AS ADOPTED BY THE GOVERNING LOCAL AUTHORITIES. NOTHING N THESE PLANS ARE TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

- INTERNATIONAL BUILDING CODE 2021
- . NATIONAL ELECTRIC CODE 2020
- 3. AMERICAN CONCRETE INSTITUTE (ACI) 3 I 8. BUILDING CODE REQUIREMENTS FOR STRUCTURAL
- . AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION
- . TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-G, STRUCTURAL STANDARDS FOR STEEL TOWER AND ANTENNA SUPPORTING STRUCTURES

AT¢T MGR.

5. TIA 607, COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR

# AERIAL VIEW OF SITE



## PROJECT INFORMATION

#### PROJECT MANAGER:

1

GENERAL DYNAMICS WIRELESS SERVICES

WESTWOOD, MA 02090 Matthew.Higgins@GDIT.com

#### ENGINEER:

RAMAKER & ASSOCIATES, INC. 855 COMMUNITY DRIVE SAUK CITY, WI 53583

APPLICANT INFORMATION: 150 STANDARD DR HANOVER, MD 21076

SITE NAME: UNION-STICKNEY HILL FA NUMBER: 10035011

PROPERTY OWNER: AMERICAN TOWER CORPORATION I O PRESIDENTIAL WAY WOBURN MA 01801

#### ADDRESS: 107 STICKNEY HILL ROAD

UNION, CT 06076

COUNTY: TOLLAND COUNTY

41.985381° LONG.: -72.192166°

RESPONSIBLE FOR SAME.

DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO THE CLIENT IS STRICTLY PROHIBITED

## SHEET INDEX

T- I TITLE SHEET

#### NOTES:

GENERAL:

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A-I SITE PLAN

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#### ELECTRICAL & GROUNDING:

- F-I WIRING DETAILS -2 PANEL AND PENETRATION DETAILS
- ATS, CONDUIT & GROUND ROD DETAILS
- GENERAC GENERATOR SPECIFICATIONS
- E-4. I GENERAC GENERATOR SPECIFICATIONS -4.2 GENERAC GENERATOR SPECIFICATIONS
- E-5 GENERAC ATS SPECIFICATIONS E-5. I GENERAC ATS SPECIFICATIONS

## SIGNATURE BLOCK

DATE

DATE GENERAL DYNAMICS CONSTRUCTION MGR.

SITE ACQUISITION DATE

# (608) 643-4100 www.ramaker.com PREPARED FOR:

RAMAKER

#### CONSULTANT:

#### **GENERAL DYNAMICS**

Information Technology, Inc.

GENERAL DYNAMICS 101 STATION DR WESTWOOD, MA 02090

hereby certify that this plan, specification, or report was prepare y me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of <u>Connecticut</u>.



ARK DATE DESCRIPTION

DATE 05/31/2023

## UNION-STICKNEY HILL FA ID # 10035011

07 STICKNEY HILL ROAD JNION, CT 06076

TITLE SHEET

SCALE: NONE

57144 T-1

PH: (608) 643-4100 FAX: (608) 643-7999 CONTACT: TYLER BEATTY

tbeatty@ramaker.com

GROUND ELEVATION: 1,245 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

THE INFORMATION CONTAINED IN THIS SET OF

#### NOTES TO SUBCONTRACTOR:

- THE GENERAL SUBCONTRACTOR MUST VERIFY ALL DIMENSIONS. CONDITIONS AND FLEVATIONS. 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 BOLE 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.
- 3. ALL WORK SHALL COMPLY WITH OSHA AND STATE SAFETY REQUIREMENTS. PROCEDURES FOR HE 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
- . 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
- IO. SUBCONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES WITHIN CONSTRUCTION LIMITS PRIOR TO CONSTRUCTION.
- I. THE SUBCONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE ON THE SITE AT ALL TIMES. SILT AND EROSION CONTROL SHALL BE MAINTAINED ON THE DOWNSTREAM SIDE OF THE SITE AT ALL TIMES. ANY DAMAGE TO ADJACENT PROPERTIES WILL BE CORRECTED AT THE SUBCONTRACTOR'S EXPENSE.
- 2 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
- 3. 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.
- 4. 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
- 5. PERMITS: THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND INCURRING THE COST OF ALL REQUIRED PERMITS. INSPECTIONS. CERTIFICATES. ETC.
- 6. 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
- 7. THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURES, ABOVE GROUND STRUCTURES AND/OR EXISTING UTILITIES BELIEVED TO BE IN THE WORKING AREA. IT IS THE RESPONSIBILITY OF THE SUBCONTRACTOR TO VERIFY ALL UTILITIES, PIPELINES AND OTHER STRUCTURES SHOWN OR 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:

- . 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

- I. 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:
  - ANSI (AMERICAN NATIONAL STANDARDS INSTITUTE) ASTIM (AMERICAN SOCIETY FOR TESTING MATERIALS)
  - ETL (ELECTRICAL TESTING LABORATORY)
  - ICEA (INSULATED CABLE ENGINEERS ASSOCIATION)
  - IEEE (INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS) MBFU (NATIONAL BOARD OF FIRE UNDERWRITERS)
  - NESC (NATIONAL ELECTRICAL SAFETY CODE)

  - NEMA (NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION)
  - NFPA (NATIONAL FIRE PROTECTION ASSOCIATION) UL (UNDERWRITER'S LABORATORY)
- IO. 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.
- II. 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
- I 2. ALL FLOORS WHERE PENETRATIONS ARE REQUIRED IN BUILDING ARE TO BE CORE DRILLED AND THEN FIREPROOFED.

- 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)
- 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
- 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
- 10. INSTALL PULL STRING IN ALL CONDUIT.
- II. 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

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

- ALL GROUND CONNECTIONS TO BUILDING SHALL BE MADE USING TWO-HOLE CONNECTORS PROVIDE STAINLESS STEEL BOLTS AND LOCK WASHERS ON ALL MECHANICAL GROUND CONNECTIONS.
- 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
- 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.
- 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.
- 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
- 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
- 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

- 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.
- 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 ULLISTING FOR THAT EQUIPMENT IS NOT VOIDED



PREPARED FOR:



#### CONSULTANT:

#### **GENERAL DYNAMICS**

Information Technology, Inc.

**GENERAL DYNAMICS** 101 STATION DR WESTWOOD, MA 02090

hereby certify that this plan, specification, or report was prei me or under my direct supervision and that I am a duly License ional Engineer under the la aws of the State of Connecticut.



5/3 1/2023

DATE 05/31/2023

RK DATE DESCRIPTION

## UNION-STICKNEY HILL FA ID # 10035011

07 STICKNEY HILL ROAD JNION, CT 06076

GENERAL NOTES

SCALE: NONE

57144

N- I





PREPARED FOR:



CONSULTANT:

## GENERAL DYNAMICS

Information Technology, Inc.

GENERAL DYNAMICS 101 STATION DR WESTWOOD, MA 02090

hereby certify that this plan, specification, or report was prepare, by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of <u>Connecticut</u>.



MARK DATE DESCRIPTION

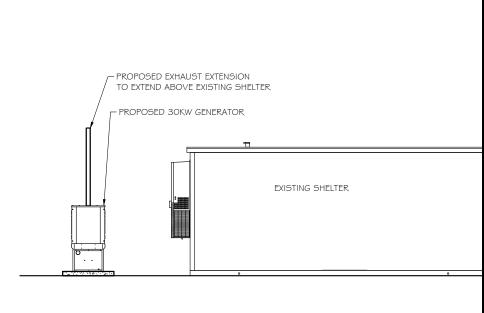
DATE 05/31/2023

# UNION-STICKNEY HILL FA ID # 10035011

PROJECT INFORMATION:
107 STICKNEY HILL ROAD UNION, CT 06076

SITE PLAN

57144 A-1



EXISTING LATTICE TOWER

-0-0-0-0-0-0-0-0-0-0-0-0-0-0

EXISTING EQUIPMENT SHELTER

SITE PLAN

EXISTING PROPANE TANKS

EXHAUST EXTENSION DETAILS 2

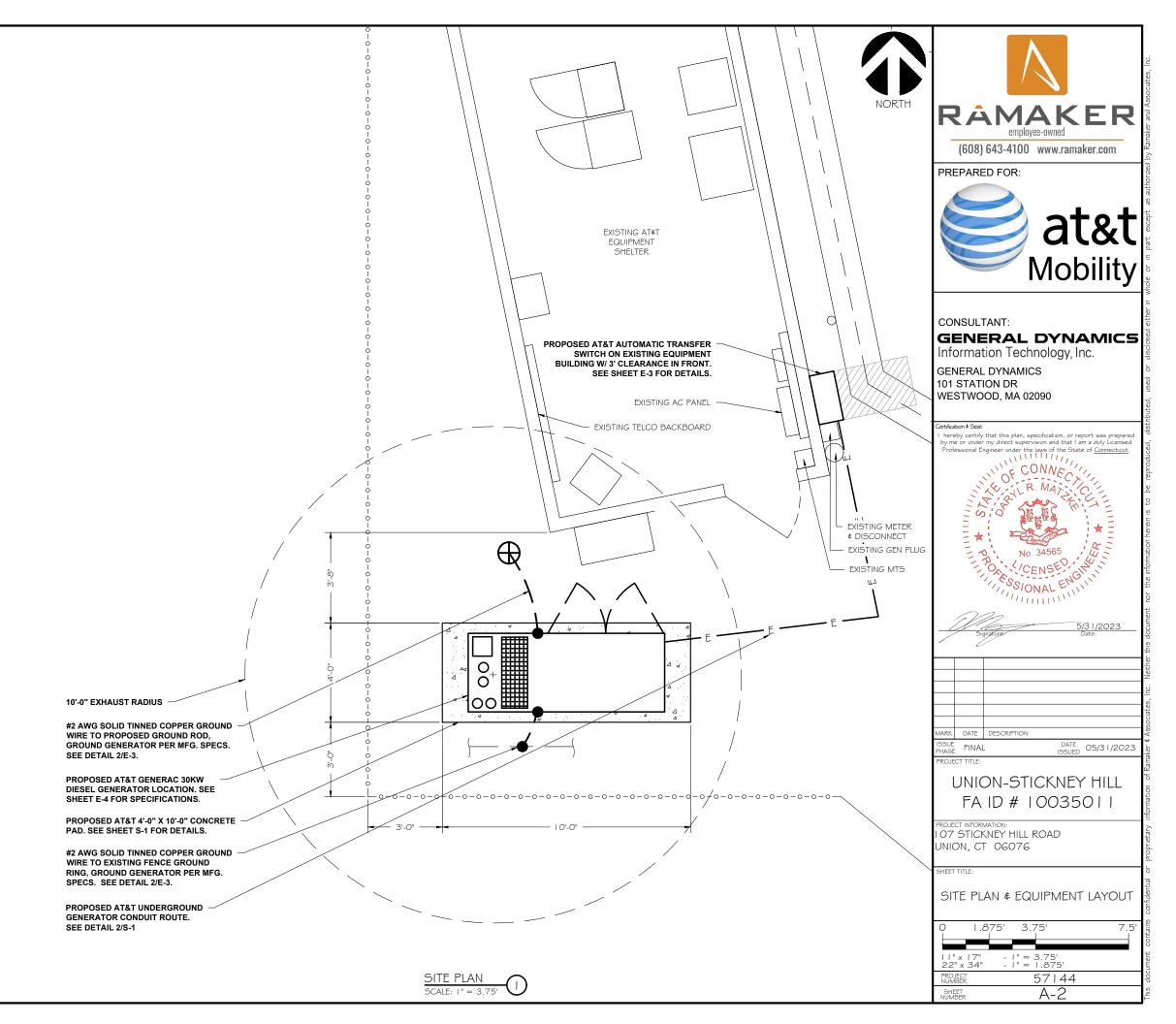
#### GENERAL:

- 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-I NEW GENERAC AUTOMATIC TRANSFER SWITCH PROVIDED BY GENERAL DYNAMICS \$ INSTALLED BY CONTRACTOR (AS REQUIRED)
- CONTRACTOR TO VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION
- CONTRACTOR SHALL RESTORE & REPAIR ANY DAMAGED AREAS CAUSED BY CONSTRUCTION TO ORIGINAL OR BETTER CONDITION

- 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.
- (I) NEW I " ELECTRICAL CONDUIT WITH CONDUCTORS TO RUN FROM NEW GENERATOR TO AC PANEL. CONDUIT PROVIDED \$ INSTALLED BY GENERAL CONTRACTOR. SEE E-1, E-2 & E-3.
- (I) NEW I" ALARM CONDUIT & CABLING PROVIDED & INSTALLED BY GENERAL CONTRACTOR. SEE E-I, E-2 & E-3.

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'-O" APART.





SHALL BE

PER UL-142 STANDARDS

40% REMAINING FOR ALARM

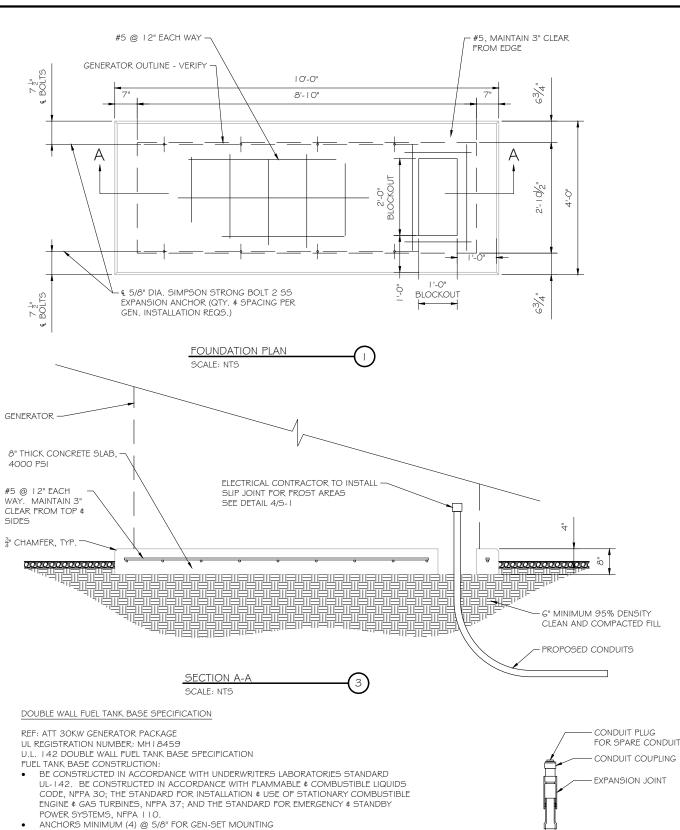
20% REMAINING FOR SHUT-DOWN

FACTORY PRE-SET AT 95% FULL FOR ALARM

FUEL FILL: 5 GALLON SPILL CONTAINMENT WITH ALARM

BASIN LEAK DETECTOR SWITCH SHALL BE PROVIDED.

SEAMS



CONDUIT ELBOW

SLIPJOINT DETAIL

SCALE: NTS

PROPOSED

CONDUIT

SUB BASE TANK TESTING: PRIMARY TANK \$ SECONDARY CONTAINMENT BASIN SECTIONS

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

PRESSURIZED AT 3-5 PSI AND LEAK-CHECKED TO ENSURE INTEGRITY OF SUB BASE WELD

# STRUCTURAL GENERAL NOTES

NOTE:

VERIFY WIRE AND CONDUIT QUANTITY & SIZES WITH GENERATOR

MAKE \$ MODEL # PRIOR TO INSTALLATION. VERIFY ELECTRICAL

REQUIREMENTS WITH LOCAL UTILITY PROVIDER.

- I.I 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.

6" TYF

\* SEPARATION DIMENSION TO BE VERIFIED WITH

I. PROVIDE PVC CONDUIT BELOW GRADE EXCEPT AS NOTED BELOW. 2. PROVIDE RGS CONDUIT AND ELBOWS AT STUB UP LOCATIONS (I.E.

LOCAL UTILITY COMPANY REQUIREMENTS

SERVICE POLE, BTS EQUIPMENT, ETC.)

3. INSTALL UTILITY PULLBOXES PER NEC.

SCALE: NTS

UTILITY CONDUIT TRENCH

- I.2 IT IS THE EXPRESS INTENT OF PARTIES INVOLVED IN THIS PROJECT THAT THE CONTRACTOR OR SUBCONTRACTOR OR INDEPENDENT CONTRACTOR OR THE RESPECTIVE EMPLOYEES SHALL EXCULPATE THE ARCHITECT, THE ENGINEER, TECH CONSTRUCTION MANAGER, THE OWNER, \$ THEIR AGENTS FROM ANY LIABILITY WHATSOEVER \$ HOLD THEM HARMLESS AGAINST LOSS, DAMAGES, LIABILITY OR ANY EXPENSE ARISING IN ANY MATTER FROM THE WRONGFUL OR NEGLIGENT ACT, OR FAILURE TO CARRY METHODS, TECHNIQUES OR PROCEDURES OR FAILURE TO CONFORM TO THE STATE SCAFFOLDING ACT IN CONNECTIONS
- 1.3 DO NOT SCALE DRAWINGS
- 1.4 VERIPY ALL EQUIPMENT MOUNTING DIMENSIONS PER MANUFACTURER DRAWINGS 1.5 DESIGN LOADS ARE (GENERAC):

: 889.1" H, 106" W, 38" D

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

CRSI MANUAL OF STANDARD PRACTICE DETAILING ASTM A 615 GRADE 60, DEFORMED

- 3.3 DO NOT FIELD BEND OR WELD TO GRADE GO REINFORCED STEEL
- 3.4 PROVIDE AIR ENTRAINED CONCRETE WITH AIR CONTENT OF 5 TO 7% FOR ALL CONCRETE EXPOSED TO EARTH OR WEATHER.
- 3.6 DO NOT USE IN ADMIXTURE, WATER OR OTHER CONSTITUENTS OF CONCRETE WHICH HAS CALCIUM CHLORIDE.
- 3.7 MINIMUM COVER FOR REINFORCING STEEL SHALL BE AS SHOWN ON PLAN.
- 4 O FOUNDATION & FXCAVATION 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.
- \$ THEN BACKFILLED WITH ACCEPTABLE GRANULAR FILL COMPACTED TO 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT (ASTM D1557)
- FOOTING OR STRUCTURAL SUBGRADE BEFORE & AFTER PLACING OF CONCRETE, AND UNTIL SUCH CONCRETE HAS FULLY CURED.





CONSULTANT:

RESTORE SURFACE TO MATCH

ORIGINAL CONDITION

UNDISTURBED SOIL

6" WARNING TAPE

COMPACTED BACKFILL

ELECTRICAL CONDUIT(S) WHERE APPLICABLE \*

(SUITABLE ON SITE MATERIAL)

#### GENERAL DYNAMICS

Information Technology, Inc.

GENERAL DYNAMICS 101 STATION DR WESTWOOD, MA 02090

hereby certify that this plan, specification, or report was preme or under my direct supervision and that I am a duly Licensed



IARK DATE DESCRIPTION

DATE 05/31/2023

## UNION-STICKNEY HILL FA ID # 10035011

07 STICKNEY HILL ROAD JNION, CT 06076

FOUNDATION DETAILS

SCALE: NONE

57144 5-1

WITH THE WORK.

LIVE LOAD EQUIPMENT SIZE

WEIGHT WITH WOODEN SHIPPING SKID

3.1 MEET OR EXCEED THE FOLLOWING CODES & STANDARDS:

: ACI3 | 8- | | DESIGN

CONSTRUCTION : ACI301

REINF. STEEL MIXING ASTM C 94. READY MIX CONCRETE AIR ENTRAINMENT : ACI 3 | 8 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

3.5 MAXIMUM AGGREGATE SIZE: 3/4"

4.2 ALL ORGANIC AND/OR OTHER UNSUITABLE MATERIAL SHALL BE REMOVED FRO FOUNDATION \$ SLAB SUBGRADE \$ BACKFILL AREAS

4.3 THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES TO PREVENT ANY WATER, FROST, OR ICE FROM PENETRATING ANY

 $\odot$ 

DIAGRAM CIRCUIT SCHEDULE

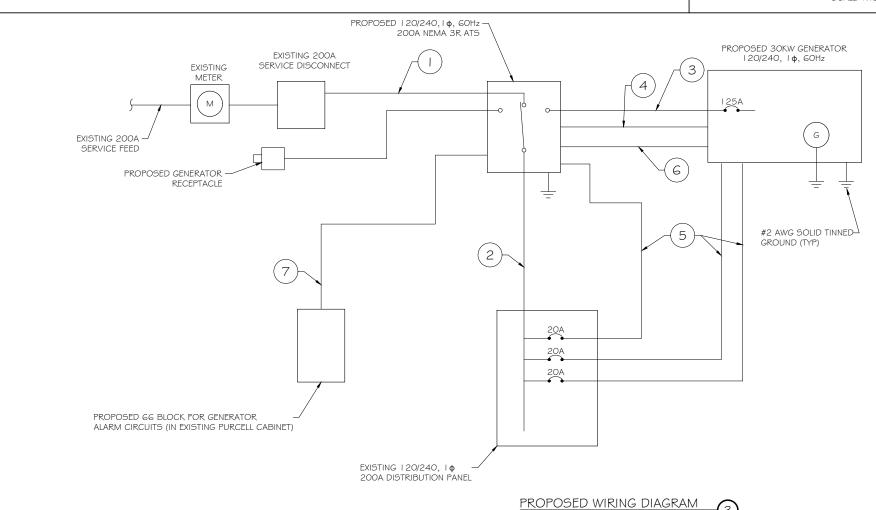
Since your South South South South							
NO.	FROM	ТО	WIRES	GROUND	CONDUIT SIZE	FUNCTION	
	NORMAL POWER SOURCE	AUTOMATIC TRANSFER SWITCH	(3) 3/0	(1) #4	2"	NORMAL POWER FEEDER TO ATS (CUT BACK EXISTING)	
2	AUTOMATIC TRANSFER SWITCH	LOAD CENTER	(3) 3/0	(1) #4	2"	POWER FEEDER FROM ATS TO PANEL	
3	GENERATOR	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	"   "	CIRCUIT FOR GENERATOR BLOCK HEATER \$ BATTERY HEATER CIRCUIT FOR BATTERY CHARGER CIRCUIT FOR AT5	
6	GENERATOR	AUTOMATIC TRANSFER SWITCH	I 2-PAIR 24 AWG OR 2EA G-PAIR CAT5	N/A	1 "	ALARM CABLES (I) I 2 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	I 2-PAIR 24 AWG OR 2EA G-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	

#### 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		

CIRCUIT DETAIL SCALE: NTS

ALARM WIRING IDENTIFICATION CHART (2) SCALE: NTS



SCALE: NTS



PREPARED FOR:



CONSULTANT:

## GENERAL DYNAMICS

Information Technology, Inc.

GENERAL DYNAMICS 101 STATION DR WESTWOOD, MA 02090



MARK DATE DESCRIPTION

DATE 05/31/2023

UNION-STICKNEY HILL FA ID # 10035011

PROJECT INFORMATION: I O7 STICKNEY HILL ROAD UNION, CT 06076

WIRING DETAILS

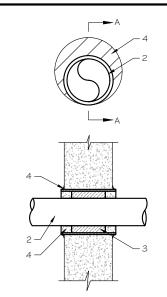
SCALE: NONE

57144 E- I

AC Distribution Panel - Layout Diagram									
Breaker	Breaker				Breaker	Breaker			
Position	Туре	On/Off	Size	Circuit Label	Position	Type	On/Off	Size	Circuit Label
1	2P	ON	30	HVAC	2	2P	ON		EMERSON PP
3	21	ON	30	HVAC	4	21	ON		RECTIFIER #1
5	2P	OFF	30	SPARE	6	2P	ON		EMERSON PP
7	21	OII	30	SPARE 8	ON	ON	RECTIFIER #2		
9	<b>1</b> P	ON		RECEPTACLES	10	2P	ON		EMERSON PP
11	1P	ON		INT / EXT LTS	12	ZP	ON		RECTIFIER #3
13	1P	ON		SMOKE DET.	14	20	ON		EMERSON PP
15	1P	ON		DEHUMIDIFIER	16	2P	ON		RECTIFIER #4
17	1P	OFF		SPARE	18	20	ON	20	EMERSON PP
19	2P	OFF	20	CDADE	20	2P	ON	30	RECTIFIER #5
21	2P	OFF	30	SPARE	22	2P	ON	30	EMERSON PP
23	2P	OFF	30	CDADE	24	ZP	ON	30	RECTIFIER #6
25	2P	OFF	30	SPARE	26	1P	OFF		SPARE
27	1P			EMPTY	28	1P	ON	20	ATS
29	<b>1</b> P			EMPTY	30	1P	ON /	20	BLOCK HEATER
31	<b>1</b> P	OFF	20	SPARE	32	1P	ON/	20	BATTERY CHARGER
33	<b>1</b> P			EMPTY	34	<b>1</b> P		<u> </u>	EMPTY
35	1P			EMPTY	36	1P			EMPTY
37	1P			EMPTY	38	1P			EMPTY
39	1P			EMPTY	40	<b>1</b> P	///		EMPTY
41	<b>1</b> P			EMPTY	42	1P //	Y T		EMPTY

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

EXISTING PANEL SCHEDULE



IF EXISTING CONSTRUCTION VARIES FROM THIS DETAIL, AN EQUAL 3-HR U.L. PENETRATION APPROPRIATE FOR THE EXISTING WALL TYPE SHALL BE CONSTRUCTED

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 = O 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.
- 2. 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 O". (POINT CONTACT) TO MAXIMUM 1-3/8". THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR CONDUITS MAY BE USED:

  A. STEEL PIPE-NOMINAL 6" DIAMETER (OR SMALLER) SCHEDULE 40 (OR HEAVIER)

  - 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.
- 3. 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
- 4. 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 CPGO IS OR CPGO4 SEALANT IS

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)





Type VN

HORIZONTAL
CABLE TAP TO
VERTICAL STEEL
SURFACE OR
THE SIDE OF
HORIZONTAL PIPE

THROUGH CABLE TO TOP OF GROUND ROD.



Type VS CABLE TAP DOWN AT 45°TO VERTICAL STEEL SURFACE OR SIDE OF HORIZONTAL OR VERTICAL PIPE



HORIZONTAL CABLE TAP TO HORIZONTAL STEEL THROUGH CABLE TO SIDE OF GROUND ROD SURFACE OR PIPE. CABLE OFF



Type VV

THROUGH VERTICAL CABLE



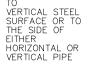
Т<u>уре</u> ТА TEE OF HORIZONTAL RUN AND TAP CABLES.



GROUND ROD

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







PREPARED FOR:



CONSULTANT:

## GENERAL DYNAMICS

Information Technology, Inc.

**GENERAL DYNAMICS** 101 STATION DR WESTWOOD, MA 02090

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



MARK DATE DESCRIPTION

DATE 05/31/2023

## UNION-STICKNEY HILL FA ID # 10035011

07 STICKNEY HILL ROAD UNION, CT 06076

PANEL AND PENETRATION **DETAILS** 

SCALE: NONE

57144 SHEET E-2

CADWELD DETAILS SCALE: NTS

CONDUIT (TYP)

(4

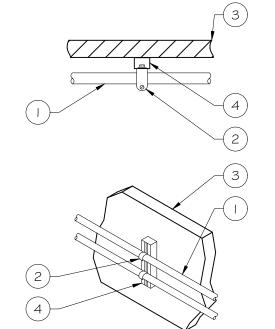
2 BUTTERFLY CLAMP AS REQUIRED

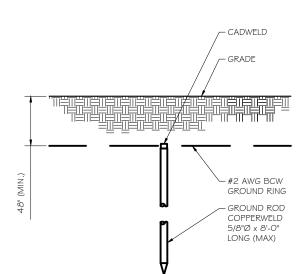
(3) EXISTING WALL/CEILING

VERTICAL "UNISTRUT" P I 000 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'-O" O.C. LENGTH OF RUN





GROUND ROD DETAIL SCALE: NTS

NOTE:

GROUND RODS MAY BE:

THE LENGTH OF ROD

AVAILABLE

SEE RESISTIVITY REPORT FOR VERIFICATION AS

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

CORROSION OF TOWER,

(SEE ANSI/TIA-EIA-222-G)

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

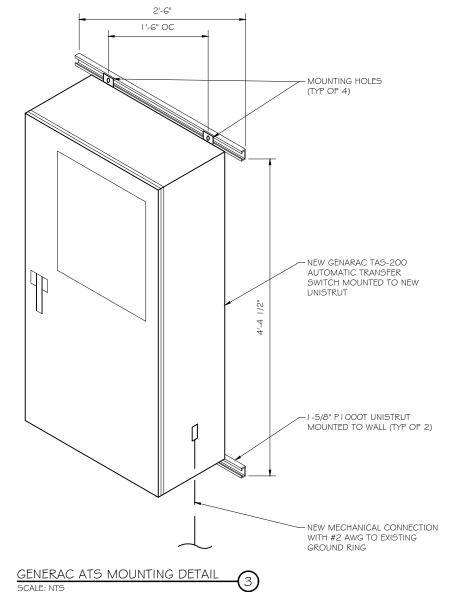
PREVENT GALVANIC

- COPPER CLAD STEEL - SOLID COPPER GROUND RODS SHALL HAVE A MAXIMUM SPACING TWICE

#### CONDUIT WALL MOUNT SCALE: NTS

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

- . 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





(608) 643-4100 www.ramaker.com

PREPARED FOR:



CONSULTANT:

#### GENERAL DYNAMICS

Information Technology, Inc.

GENERAL DYNAMICS 101 STATION DR WESTWOOD, MA 02090

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



MARK DATE DESCRIPTION DATE 05/31/2023

## UNION-STICKNEY HILL FA ID # 10035011

107 STICKNEY HILL ROAD UNION, CT 06076

ATS, CONDUIT & GROUND ROD DETAILS

SCALE: NONE

57144 SHEET E-3

GENERAC INDUSTRIAL 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

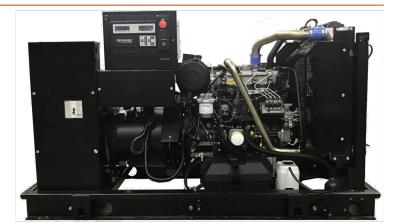


Image used for illustration purposes only

## **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



ANSI

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

**CONTROL SYSTEM** 

GENERAC

Program Functions

Programmable Crank Limiter

• 7-Day Programmable Exerciser

RS-232/485 Communications

2-Wire Start Capability

Digital H Control Panel- Dual 4x20 Display

Special Applications Programmable Logic Controller

· All Phase Sensing Digital Voltage Regulator

Date/Time Fault History (Event Log)

· Isochronous Governor Control

· Waterproof/Sealed Connectors

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

#### **ALTERNATOR SYSTEM**

- UL2200 GENprotect<sup>™</sup>
- 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
- High Performance Sound-Absorbing Material (Sound Attenuation Enclosures)
- Gasketed Doors
- Upward Facing Discharge Hoods
- 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
- Check Valve In Supply and Return Lines
- · Oil Pressure
- Coolant Level
- Customizable Alarms, Warnings, and Events Frequency Modbus<sup>®</sup> Protocol
- · Predictive Maintenance Algorithm Sealed Boards

· Audible Alarms and Shutdowns

E-Stop (Red Mushroom-Type)

Not in Auto (Flashing Light)

Auto/Off/Manual Switch

Password Parameter Adjustment Protection

NFPA110 Level I and II (Programmable)

- 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

- · Battery Voltage

#### **Alarms and Warnings**

- Engine Overspeed

Protect Finish

GENERAC | INDUSTRIAL

- Stamped Air-Intake Louvers
- (Radiator and Exhaust)

- Fuel Level
- RhinoCoat™ Textured Polyester Powder Coat Paint
- Stainless Steel Hardware
- Coolant Temperature
- Engine Speed

- Oil Pressure
- Coolant Temperature Coolant Level
- 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)

PREPARED FOR:

CONSULTANT:

## GENERAL DYNAMICS

RAMAKER

(608) 643-4100 www.ramaker.com

Information Technology, Inc. GENERAL DYNAMICS 101 STATION DR

WESTWOOD, MA 02090

me or under my direct supervision and that I am a duly License



5/31/2023

DATE 05/31/2023

UNION-STICKNEY HILL FA ID # 10035011

07 STICKNEY HILL ROAD JNION, CT 06076

RK DATE DESCRIPTION

GENERAC 30KW GENERATOR **SPECIFICATIONS** 

SCALE: NONE

57144 F-4

GENERAC 30KW GENERATOR SPECIFICATIONS

SD030 | 2.2L | 30 kW INDUSTRIAL DIESEL GENERATOR SET GENERAC INDUSTRIAL

EPA Certified Stationary Emergency

#### **CONFIGURABLE OPTIONS**

#### **ENGINE SYSTEM**

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

#### FUEL SYSTEM

NPT Flexible Fuel Line

#### ELECTRICAL SYSTEM

- O 10A UL Listed Battery Charger
- Battery Warmer

#### ALTERNATOR SYSTEM

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

#### **GENERATOR SET**

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

## CIRCUIT BREAKER OPTIONS

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

#### ENCLOSURE

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

### WARRANTY (Standby Gensets Only)

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

#### CONTROL SYSTEM

- O NFPA 110 Compliant 21-Light Remote Annunciator
- O Remote Relay Assembly (8 or 16)
- O il Temperature Indication and Alarm
- O Remote E-Stop (Break Glass-Type, Surface Mount) O Remote E-Stop (Red Mushroom-Type,
- Remote E-Stop (Red Mushroom-Type, Flush Mount)
- O 100 dB Alarm Horn
- O Ground Fault Annunciation
- O 120V GFCI and 240V Outlets O Remote Communication - Modem
- 10A Engine Run Relay

#### FUEL TANKS (Size On Last Page)

- O 8 in (203.2 mm) Fill Extension
- O 13 in (330.2 mm) Fill Extension
- O 19 in (482.6 mm) Fill Extension

O Fire Rated Stainless Steel Fuel Hose

- Overfill Protection Valve
- O 5 Gallon Spill Box Return Hose
- O 5 Gallon Spill Box
- Tank Risers
- O Fuel Level Switch and Alarm
- 12' Vent System

#### O 10 Year Extended Limited Warranty

#### **ENGINE SYSTEM**

**ENGINEERED OPTIONS** 

### Coolant Heater Isolation Ball Valves

Fluid Containment Pan

#### CONTROL SYSTEM

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

#### ALTERNATOR SYSTEM

O 3rd Breaker System

#### **GENERATOR SET**

O Special Testing

#### FUEL TANKS

- O UL2085 Tank
- Stainless Steel Tanks
- Special Fuel Tanks

# Vent Extensions

## SD030 | 2.2L | 30 kW INDUSTRIAL DIESEL GENERATOR SET

**EPA Certified Stationary Emergency** 

#### APPLICATION AND ENGINEERING DATA

#### **ENGINE SPECIFICATIONS**

Make	Perkins	
EPA Emissions Compliance	Stationary Emergency	
EPA Emissions Reference	See Emission Data Sheet	
Cylinder #	4	
Туре	In-Line	
Displacement - in <sup>3</sup> (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 Canacity - of (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	Н
Insulation Class - Stator	Н
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%

# GENERAC INDUSTRIAL



PREPARED FOR:



CONSULTANT:

### GENERAL DYNAMICS

Information Technology, Inc.

**GENERAL DYNAMICS** 101 STATION DR WESTWOOD, MA 02090

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



RK DATE DESCRIPTION

## UNION-STICKNEY HILL FA ID # 10035011

DATE 05/31/2023

07 STICKNEY HILL ROAD JNION, CT 06076

GENERAC 30KW GENERATOR **SPECIFICATIONS** 

SCALE: NONE

57144 F-4 I

GENERAC 30KW GENERATOR SPECIFICATIONS

SD030 | 2.2L | 30 kW INDUSTRIAL DIESEL GENERATOR SET GENERAC INDUSTRIAL

EPA Certified Stationary Emergency

#### **OPERATING DATA**

#### POWER RATINGS

		Standby		
Single-Phase 120/24	10 VAC @1.0pf	30 kW	Amps: 125	
Three-Phase 120/20	8 VAC @0.8pf	30 kW	Amps: 104	
Three-Phase 120/24	0 VAC @0.8pf	30 kW	Amps: 90	
Three-Phase 277/48	0 VAC @0.8pf	30 kW	Amps: 45	
Three-Phase 346/60	0 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\***

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

#### 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)	e) See Bulletin No. 0199280SSD	
Maximum Radiator Backpressure	in H <sub>2</sub> O (kPa)	0.5 (0.12)

#### COMBUSTION AIR REQUIREMENTS

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

ENGINE			EXHAUST	
		Standby		Standby
Rated Engine Speed	RPM	1,800	Exhaust Flow (Rated Output) scfm (m³/min)	296.6 (8.4)
Horsepower at Rated kW**	hp	49	Max. Allowable Backpressure (Post Turbocharger) inHg (kPa)	1.5 (5.1)
Piston Speed	ft/min (m/min)	1,181 (360)	Exhaust Temp (Rated Output) °F (°C)	892 (478)
BMEP	psi (kPa)	159 (1,096)		

<sup>\*\*</sup> 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

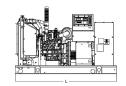
Prime - See Bulletin 0187510SSB

SD030 | 2.2L | 30 kW

INDUSTRIAL DIESEL GENERATOR SET

**EPA Certified Stationary Emergency** 

#### **DIMENSIONS AND WEIGHTS\***



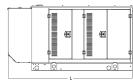


# **OPEN SET (Includes Exhaust Flex)**

Time - Hours	Capacity - Gal (L)	L x W x H - in (mm)	- 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)

GENERAC INDUSTRIAL

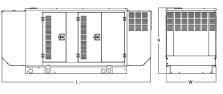
Weight





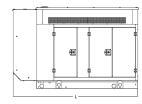
#### **WEATHER PROTECTED ENCLOSURE**

Run Time	Usable Capacity	L x W x H - in (mm)	Weight - lbs (kg) Enclosure Only	
- Hours	- Gal (L)		Steel	Aluminum
No Tank	-	94.8 (2,409) x 38.0 (965) x 49.5 (1,258)		
19	54 (204)	94.8 (2,409) x 38.0 (965) x 62.5 (1,588)	070	241 (110)
47	132 (501)	94.8 (2,409) x 38.0 (965) x 74.5 (1,893)	372 (170)	
75	211 (799)	94.8 (2,409) x 38.0 (965) x 86.5 (2,198)	. (170)	
107	300 (1,136)	94.8 (2,409) x 38.0 (965) x 86.5 (2,198)		





Run Time	Usable Capacity	L x W x H - in (mm)	Weight - Ibs (kg) Enclosure Only	
- 110015	- Gal (L)		Steel	Aluminum
No Tank	-	112.5 (2,857) x 38.0 (965) x 49.5 (1,258)		
19	54 (204)	112.5 (2,857) x 38.0 (965) x 62.5 (1,582)		000
47	132 (501)	112.5 (2,857) x 38.0 (965) x 74.5 (1,893)	505 (230)	338 (154)
75	211 (799)	112.5 (2,857) x 38.0 (965) x 86.5 (2,198)	(230)	(134)
107	300 (1,136)	112.5 (2,857) x 38.0 (965) x 86.5 (2,198)		





#### **LEVEL 2 ACOUSTIC ENCLOSURE**

Run Time	Usable Capacity	L x W x H - in (mm)	Weight - Ibs (kg) Enclosure Only	
- Hours	- Gal (L)		Steel	Aluminum
No Tank	-	94.8 (2,407) x 38.0 (965) x 61.1 (1,551)	510 (232)	
19	54 (204)	94.8 (2,407) x 38.0 (965) x 74.1 (1,881)		0.14
47	132 (501)	94.8 (2,407) x 38.0 (965) x 86.1 (2,186)		341 (155)
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.

Generac Power Systems, Inc. | P.O. Box 8 | Waukesha, WI 53189

P: (262) 544-4811 @2018 Generac Power Systems, Inc. All rights reserved. All specifications are subject to change without notice.

Part No. 10000024842 Rev. B 08/27/18 RAMAKER (608) 643-4100 www.ramaker.com

PREPARED FOR:



CONSULTANT:

### GENERAL DYNAMICS

Information Technology, Inc.

GENERAL DYNAMICS 101 STATION DR WESTWOOD, MA 02090



RK DATE DESCRIPTION

DATE 05/31/2023

UNION-STICKNEY HILL FA ID # 10035011

07 STICKNEY HILL ROAD JNION, CT 06076

GENERAC 30KW GENERATOR **SPECIFICATIONS** 

SCALE: NONE

57144 E-4.2

GENERAC 30KW GENERATOR SPECIFICATIONS

**TTS Series Switches 200 Amps 600 VAC** 



TAS200 TAS200

**200A Automatic Transfer Switch** 

**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



## **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.	
	Single Chamber with Main Door	
	Steel	
Construction	UL Type / NEMA 3R Rated	
	Powder Coat Finish for Corrosion Resistance	
	C-UL-US Listed - Automatic Transfer Switch	
	Stainless Steel Hardware	
	3-Point Latching System with Pad-Lockable Handles	
Maunting Ontions	Wall	
Mounting Options	H-frame	
Installed	Pre-wired alarm terminal strip	

Electrical Specifications	100,000,000,000	
Voltage/Phase/Amps	120/240 Single-Phase, 200A 120/208 3-Phase, 200A 120/240 3-Phase, 200A	
Breaker	Eaton 200 amp Utility Breaker	
Diedkei	Eaton 200 amp Generator Breaker	
Maximum RMS Symmetrical Fault Current - Amps	25k AIC Rated	
Protective Device Continuous Rating (Max) Amp	200	
Input to Generator	350MCM - #6 AWG	
Output to Site	350MCM - #6 AWG	
Generator Annunciator Connector	Deutsch DTM04-12PA-L012	
	Generator Run Alarm	
	Generator Fail – Shutdown Alarm	
Alarm Terminal Board	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	GENERAC
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	



PREPARED FOR:



CONSULTANT:

### GENERAL DYNAMICS

Information Technology, Inc.

GENERAL DYNAMICS 101 STATION DR WESTWOOD, MA 02090



MARK DATE DESCRIPTION

## UNION-STICKNEY HILL FA ID # 10035011

DATE 05/31/2023

07 STICKNEY HILL ROAD UNION, CT 06076

GENERAC ATS SPECIFICATIONS

SCALE: NONE

57144 E-5

GENERAC ATS SPECIFICATIONS

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TAS200

#### **Touch Screen Interface**





#### INDICATORS AND BUTTONS

- System Ready indicator
- Standby Operating indicator
- Utility Available indicator
- GEN/UTIL Switch Position indicator
- TVSS status

- Normal Test button
- Fast Test button
- Return to Normal button
- Reset button
- Exercising indicator

### **DETAILS SCREEN**

#### **System Settings:**

- System Voltage/Phases:
- 120/240V single phase (standard)
- 120/208V three phase (optional)
- 120/240V three phase (optional)
- Utility Fail Monitor:
- 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:
- In-phase, or
- Time-Delay-Neutral at 0.0-10.0s in 1 second increments

#### **Engine Settings:**

- Engine Warm-up timer: 0-20 minutes
- Generator Load Accept:
- 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

- **Exercise Settings:** Time of day
- · Day of week
- Exercise:
- 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

#### Screen Settings:

- Brightness & Contrast button
- Screen Calibration button Startup/Clean screen

## Diagnostics:

- Digital I/O bits status
- Voltage A/D readings

## Mimic Diagram:

- · 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:



CONSULTANT:

#### GENERAL DYNAMICS

Information Technology, Inc.

GENERAL DYNAMICS 101 STATION DR WESTWOOD, MA 02090

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



MARK DATE DESCRIPTION

## UNION-STICKNEY HILL FA ID # 10035011

DATE 05/31/2023

07 STICKNEY HILL ROAD UNION, CT 06076

GENERAC ATS SPECIFICATIONS

SCALE: NONE

57144 PROJECT NUMBER SHEET E-5.1

# **ATTACHMENT 2**

## **107 STICKNEY HILL RD**

Location 107 STICKNEY HILL RD Mblu 03/15/013//

Acct# 00046500 Owner HARRISON MARGARET

**Assessment** \$165,530 **Appraisal** \$236,460

PID 583 Building Count 1

## **Current Value**

		Appraisal	
Valuation `	Year	Improvements	Land
2018		\$0	\$236,460
		Assessment	
Valuation `	Year	Improvements	Land
2018		\$0	\$165,530

## **Owner of Record**

**Owner** HARRISON MARGARET M **Sale Price** \$0

Co-Owner Certificate

Address145 MIHALIAK ROADBook & Page50/14

WILLINGTON, CT 06279 Sale Date 06/08/2004

Instrument 10

## **Ownership History**

Ownership History				
Owner	Sale Price	Certificate	Book & Page	Instrume
HARRISON MARGARET M	\$0		50/14	10
MIHALIAK, JOSEPH ESTATE OF	\$169,200		42/223	
RIZNER GEO JR & PAUL, ESTATE OF	\$0		30/264	

## **Building Information**

Roof Cover	
Interior Wall 1	
Interior Wall 2	
Interior Flr 1	
Interior Flr 2	
Heat Fuel	
Heat Type:	
AC Type:	
Total Bedrooms:	
Total Bthrms:	
Total Half Baths:	
Total Xtra Fixtrs:	
Total Rooms:	
Bath Style:	
Kitchen Style:	

No Data for Building Su

## **Extra Features**

Extra Features
No Data for Extra Features

## Land

Land Use	nd Use Land Line Valuation		ition
Use Code	1300	Size (Acres)	3.50
Description	Vacant Land	Frontage	0
Zone	RR	Depth	0
Neighborhood	12	Assessed Value	\$165,530
<b>Alt Land Appr</b>	No	Appraised Value	\$236,460
Category			

## Outbuildings

Outbuildings
No Data for Outbuildings





## STATE OF CONNECTICUT

## CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051 Phone: (860) 827-2935 Fax: (860) 827-2950 E-Mail: siting.council@ct.gov Internet: ct.gov/csc

October 1, 2007

Steven L. Levine Real Estate Consultant New Cingular Wireless PCS, LLC 500 Enterprise Drive Rocky Hill, CT 06067 5403 - NEWIDETON 1048 > UNION 5453 > UNION 1154 - WEST HARTFORD 1082 - VERNON

RE: **EM-CING-094-145-145-146-155-070914** – New Cingular Wireless PCS, LLC notice of intent to modify existing telecommunications facilities located at 605 Willard Avenue, Newington; 107 Stickney Hill Road, Union; 1050 Buckley Highway, Union; 197 South Street, Vernon; and 3114 Albany Avenue, West Hartford, Connecticut.

Dear Mr. Levine:

At a public meeting held on September 25, 2007, the Connecticut Siting Council (Council) acknowledged your notice to modify these existing telecommunications facilities, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated September 12, 2007, including the placement of all necessary equipment and shelters within the tower compounds. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to existing facility sites that would not increase tower heights, extend the boundaries of the tower sites, increase noise levels at the tower site boundaries by six decibels, and increase the total radio frequencies electromagnetic radiation power densities measured at the tower site boundaries to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. These facilities have also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on these towers.

This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to any of these facilities will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.



EM-CING-094-145-145-146-155-070914 Page 2

Thank you for your attention and cooperation.

) anil F. Caruson

Very truly yours,

Daniel F. Caruso

Chairman

DFC/MP/cm

c: The Honorable Rodney Burt Mortensen, Mayor, Town of Newington Edmund Meehan, Town Planner, Town of Newington The Honorable Ellen L. Marmer, Mayor, Town of Vernon Gene F. Bolles, Zoning Enforcement Officer, Town of Vernon The Honorable Scott Slifka, Mayor, Town of West Hartford Mila Limson, Town Planner, Town of West Hartford The Honorable Thomas L. Fitzgerald, First Selectman, Town of Union Planning & Zoning Official, Town of Union Marcus Group

Cox Communications

New England Site Management

Crown Castle

Marlin Tower

### DOCKET NO. 36

AN APPLICATION SUBMITTED BY CONTINENTAL CABLEVISION OF CONNECTICUT INC., FOR A CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY AND PUBLIC NEED FOR THE ERECTION OF COMMUNITY ANTENNA TELEVISION TOWERS IN THE TOWNS OF EAST GRANBY, HARTLAND AND UNION.

CONNECTICUT SITING

:

COUNCIL

ORIGINAL

February 24, 1984

## DECISION AND ORDER

Pursuant to the foregoing opinion, the Council hereby directs that a certificate of environmental compatibility and public need as required by section 16-50k of the General Statutes of Connecticut, revisions of 1958, revised to 1983, as amended, shall be issued to Continental Cablevision of Connecticut, Inc. for the erection of community antenna television towers and associated equipment in the towns of East Granby, Hartland, and Union, as specified in the Council's record on this matter, subject to the following conditions:

- The towers shall be no taller or wider than proposed and in no event shall
  - a. The East Granby tower exceed 20' plus the height of the dish mounted on the tower,
  - b. The Hartland tower exceed 110', plus the height of dishes mounted on the tower, and
  - c. The Union tower exceed 110' feet, plus the height of the dish mounted on the tower;
- 2. A fence not lower than eight feet shall surround each facility site;
- 3. No associated equipment other than that referenced in finding 41 shall be added to the East Granby facility without prior notification to the Council;

- 4. No associated equipment other than that referenced in finding 62 shall be added to the Hartland facility without prior notification to the Council;
- 5. No associated equipment other than that referenced in finding 71 shall be added to the Union facility without prior notification to the Council;
- 6. The East Granby facility shall be screened with appropriate evergreen vegetation;
- 7. The applicant shall comply with the reporting requirements of a development and management plan pursuant to section 16-50j-77 of the regulations of state agencies;
- 8. The facilities construction shall be conducted in accordance with all applicable federal, state, and municipal laws and regulations; and
- 9. This decision and order shall be void if all construction authorized is not completed by June 30, 1987.

We hereby direct, pursuant to section 16-50p(c) of the General Statutes, that a copy of the decision and order be served on each person listed below. A notice of the issuance shall be published in the Hartford Courant, Manchester Journal Inquirer and the Winsted Evening Citizen. The parties to this proceeding are:

Mr. Roger Worboys General Manager Continental Cablevision of Connecticut, Inc. 5 Shoham Road East Windsor, Connecticut 06088

(its attorney)

(Applicant)

Leete, O'Neill & Kosto 60 Washington Street Suite 600 Hartford, Connecticut 06106 Mr. Eugene Biggio 595 North Main Street Suffield, Connecticut 06078

Mr. Louis E. Roberts Second Selectman 606 Buckley Highway Union, Connecticut

Mr. James Johnston 12 Hillside Avenue Enfield, Connecticut (service waived)

## $\underline{\mathsf{C}\;\mathsf{E}\;\mathsf{R}\;\mathsf{T}\;\mathsf{I}\;\mathsf{F}\;\mathsf{I}\;\mathsf{C}\;\mathsf{A}\;\mathsf{T}\;\mathsf{I}\;\mathsf{O}\;\mathsf{N}}$

The undersigned members of the Connecticut Siting Council hereby certify that they have heard this case or read the record thereof, and that we voted as follows:

Dated at New Britain, Connecticut, this 24th day of February, 1984.

Council Members	<u>Vote Cast</u>
Gloria Dibble Pond ) Gloria Dibble Pond Chairperson	Yes
Commissioner John Downey Designee: Commissioner Peter G. Boucher	Yes
Commissioner Stanley Pac Designee: Christopher Cooper	Absent
Owen L. Clark	Yes
Fred J. Doocy	Yes
Mortimer A. Gelston	Absent
James G. Horsfall	Yes
danet Sitty	Yes
Colin C Tait	Yes

STATE OF CONNECTICUT )
: ss. New Britain, February 24, 1984
COUNTY OF HARTFORD )

I hereby certify that the foregoing is a true and correct copy of the decision and order issued by the Connecticut Siting Council, State of Connecticut.

ATTEST:

Christopher S. Wood, Executive Director Connecticut Siting Council

# **ATTACHMENT 3**



#### After printing this label:

- 1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
- 2. Fold the printed page along the horizontal line.
- 3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on 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 ServiceGuide. 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: 772302263000

Delivery Information:			
Status:	Delivered	Delivered To:	Receptionist/Front Desk
Signed for by:	K.JOHNSON	Delivery Location:	
Service type:	FedEx Priority Overnight		
Special Handling:	Deliver Weekday		UNION, CT,
		Delivery date:	Jun 6, 2023 11:43
Shipping Information:			
Tracking number:	772302263000	Ship Date:	Jun 1, 2023
		Weight:	1.0 LB/0.45 KG
Recipient:		Shipper:	
UNION, CT, US,		ROCKVILLE, MD, US,	



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Dear Customer,

The following is the proof-of-delivery for tracking number: 772302291308

Delivery Information:			
Status:	Delivered	Delivered To:	Receptionist/Front Desk
Signed for by:	L.FITZGERALD	Delivery Location:	
Service type:	FedEx Priority Overnight		
Special Handling:	Deliver Weekday		UNION, CT,
		Delivery date:	Jun 5, 2023 11:49
Shipping Information:			
Tracking number:	772302291308	Ship Date:	Jun 1, 2023
		Weight:	2.0 LB/0.91 KG
Recipient:		Shipper:	
UNION, CT, US,		ROCKVILLE, MD, US,	



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Residence



Dear Customer,

The following is the proof-of-delivery for tracking number: 772302324244

**Delivery Information:** 

Delivered Status: Delivered To:

Signature not required 145 MIHALIAK RD Signed for by: **Delivery Location:** 

Service type: FedEx Priority Overnight

Deliver Weekday; Residential Delivery Special Handling: WILLINGTON, CT, 06279

> Delivery date: Jun 2, 2023 11:12

> > Shipper:

**Shipping Information:** 

Tracking number: Ship Date: 772302324244 Jun 1, 2023

> Weight: 2.0 LB/0.91 KG

Recipient: Margaret M. Harrison, 145 Mihaliak Road WILLINGTON, CT, US, 06279

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