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Lucia Chiocchio lchiocchio@cuddyfeder.com

3/31/20

BY ELECTRONIC MAIL

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

Re: New Cingular Wireless PCS, LLC ("AT&T")

Notice of Exempt Modification Emergency Back-up Generator

29 Mahoney Road, Colchester, CT 06415 Lat.: 41.56453110° Long.: -72.25169610°

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 at 29 Mahoney Road in the Town of Colchester, Connecticut. SBA Towers is the owner of the underlying property and the tower owner. 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.¹ 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."² The planned modifications will ensure continuity of services by reinforcing AT&T's back-up 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";<sup>3</sup>
- 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 facility was originally approved by the Town of Colchester Planning & Zoning Commission on March 15, 2000 as illustrated in the decision enclosed as Attachment 2. This modification complies with the conditions of the aforementioned approval. A copy of AT&T's most recent Exempt Modification approval for upgrades to its wireless facility is also included in Attachment 2.

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 fenced equipment compound. Thus, AT&T respectfully requests a waiver from submission of information relating to the existing tower structure or the radiofrequency 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 by email to the Town First Selectman

<sup>&</sup>lt;sup>1</sup> See Council Administrative Notice Item No. 39

<sup>&</sup>lt;sup>2</sup> See Council Administrative Notice Item No. 39.

<sup>&</sup>lt;sup>3</sup> R.C.S.A. § 22a-69-1.8.

Mary Bylone and the Planning & Zoning Department as well as by first class mail to the property owner and structure owner identified above. Certificate of mailing is enclosed as Attachment 3.

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,

Lucia Chiocchio

Attachments

cc: First Selectman Mary Bylone, Town of Colchester

Lucia Chrocchio

Matthew Bordeaux, Planner

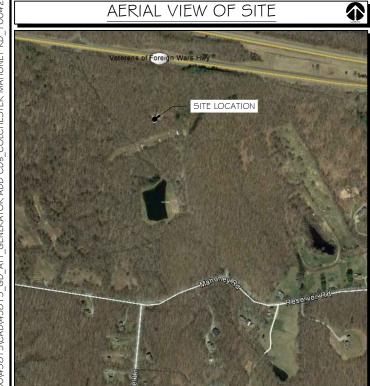
SBA Towers, Property Owner and Tower Owner

AT&T

General Dynamics Information Technology

Daniel Patrick, Esq. & Julie Durkin, Cuddy & Feder, LLP

## ATTACHMENT 1



AERIAL VIEW OF SITE

SITE NAME: COLCHESTER MAHONEY RD

FA LOCATION CODE: 10042314

VICINITY MAP



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

# 29 MAHONEY ROAD **COLCHESTER, CT 06415**

# 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 CURREN' 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 2015
- 2. NATIONAL ELECTRIC CODE 2017
- 3. AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL
- 4. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION
- . TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-G, STRUCTURAL STANDARDS FOR STEEL OWER AND ANTENNA SUPPORTING STRUCTURES

AT¢T MGR.

. TIA 607, COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR

## PROJECT INFORMATION

#### PROJECT MANAGER:

JOF JARVIS MARKET LEAD

GENERAL DYNAMICS WIRELESS SERVICES 661 MOORE RD STE 110

KING OF PRUSSIA, PA 19406 joseph.jarvis@gdit.com

#### ENGINEER:

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

RAMAKER \$ ASSOCIATES, INC.

APPLICANT INFORMATION: 7150 STANDARD DR HANOVER, MD 21076

SITE NAME: COLCHESTER MAHONEY RD FA NUMBER: 10042314

PROPERTY OWNER: SBA TOWERS 805 I CONGRESS AVENUE BOCA RATON, FL 33487

ADDRESS: 29 MAHONEY ROAD COLCHESTER, CT 06415

COUNTY: NEW LONDON

RESPONSIBLE FOR SAME

## SHEET INDEX

## GENERAL:

T-I TITLE SHEET

#### NOTES:

N-I GENERAL NOTES

A-2 SITE PLAN & EQUIPMENT LAYOUT S-1 FOUNDATION DETAILS

## ELECTRICAL & GROUNDING:

- E- I WIRING DETAILS
- PANEL AND PENETRATION DETAILS

  ATS, CONDUIT # GROUND ROD DETAILS
- GENERAC GENERATOR SPECIFICATIONS
- E-4. I GENERAC GENERATOR SPECIFICATIONS
- E-4.2 GENERAC GENERATOR SPECIFICATIONS GENERAC ATS SPECIFICATIONS
- E-5. I GENERAC ATS SPECIFICATIONS

#### SIGNATURE BLOCK

DATE

GENERAL DYNAMICS DATE CONSTRUCTION MGR.

SITE ACQUISITION

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

PREPARED FOR:

GENERAL DYNAMICS 661 MOORE RD STE 110 KING OF PRUSSIA, PA 19406

hereby certify that this plan, specification, or

855 Community Dr, Sauk City, WI 53583 608-643-4100 www.Ramaker.com Sauk City, WI • Willmar, MN

Woodcliff Lake, NJ · Bayamon, PR



DATE 3/27/2020

**COLCHESTER MAHONEY** RD

FA ID # 10042314

29 MAHONEY ROAD COLCHESTER, CT 06415

TITLE SHEET

SCALE: NONE

45815

41.56453110° -72.25169610° GROUND ELEVATION: 373 FT AMSL

CONTRACTOR SHALL VERIFY ALL PLANS & EXISTIN 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 DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO THE CLIENT IS STRICTLY PROHIBITED.

### NOTES TO SUBCONTRACTOR:

- . 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
- IO. SUBCONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES WITHIN CONSTRUCTION LIMITS PRIOR TO CONSTRUCTION.
- II. 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.
- I 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
- I 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.
- 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
- I.5. PERMITS: THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND INCURRING THE COST OF ALL REQUIRED PERMITS. INSPECTIONS, CERTIFICATES, ETC.
- I 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
- I 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 JTILITIES 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 LINMANNED 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.
- G. 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
- 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 FOLIPMENT 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)
  - MBFI (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 FOLIPMENT 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.
- 12 ALL FLOORS WHERE PENETRATIONS ARE REQUIRED IN BUILDING ARE TO BE CORE DRILLED AND THEN FIREPROOFED

- I. 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) FXIST 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 WIRING.
- 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 I'-O" VERTICAL AND I'-O" HORIZONTAL SEPARATIONS FROM ANY MECHANICAL GAS PIPING.
- 13. ALL WIRING ROUTED IN PLENUM TO BE RATED OR IN METALLIC FLEX (LIQUIDITE) CONDUIT.

#### C. EQUIPMENT

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

#### D. GROUNDING

- 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 FOUIPMENT 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 LINIESS OTHERWISE NOTED
- 6 EXACT LOCATION OF GROUND CONNECTION POINTS SHALL BE DETERMINED IN FIELD. ADJUST LOCATIONS INDICATED ON PLANS ACCORDING TO ACTUAL EQUIPMENT LOCATIONS TO KEEP THE GROUND CONNECTION CABLES AS SHORT AS PRACTICAL.
- 7. PROVIDE ALL ELECTRICAL SYSTEM AND EQUIPMENT GROUNDS AS REQUIRED BY THE CURRENT EDITION OF THE NATIONAL ELECTRIC CODE (1999) AND THE CURRENT EDITION O THE NATIONAL FLECTRICAL 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



855 Community Dr, Sauk City, WI 53583 608-643-4100 www.Ramaker.com

Sauk City, WI • Willmar, MN Woodcliff Lake, NJ · Bayamon, PR

#### PREPARED FOR:



#### CONSULTANT:

## **GENERAL DYNAMICS**

Information Technology, Inc.

GENERAL DYNAMICS 661 MOORE RD STE 110 KING OF PRUSSIA, PA 19406

#### ertification \$ Seal

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



DATE 3/27/2020 FINIAL

**COLCHESTER MAHONEY** 

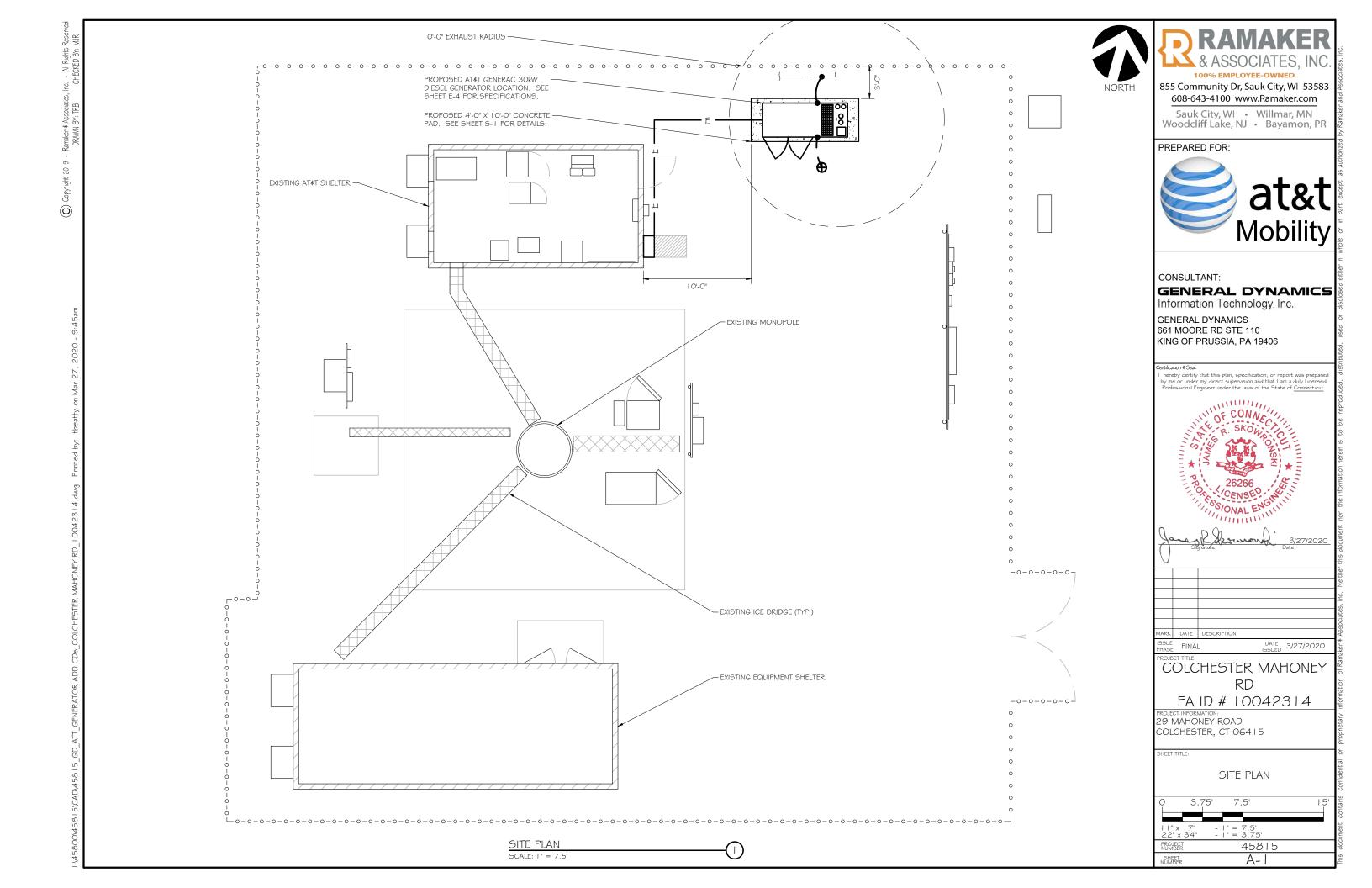
RD FA ID # 10042314

29 MAHONEY ROAD COLCHESTER, CT 06415

GENERAL NOTES

SCALE: NONE

45815 N- I SHEET



#### SCOPE OF WORK DETAILS

#### GENERAL:

- NEW GENERAC DIESEL GENERATOR PROVIDED BY GENERAL
- DYNAMICS & INSTALLED BY GENERAL CONTRACTOR, SEE E-4.

  NEW 4'-0" X I O'-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

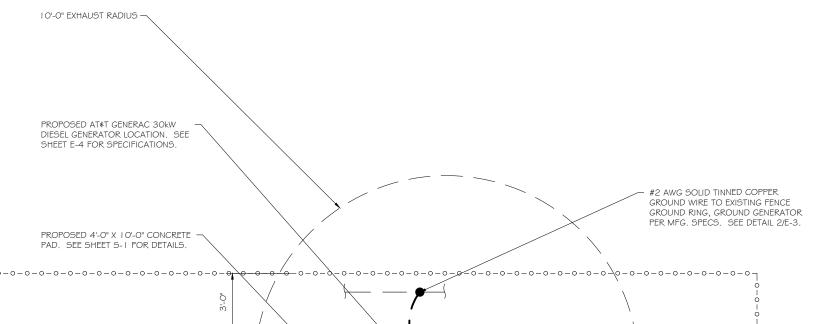
- INSTALL PULL STRING IN EACH CONDUIT
- (1) NEW 2" AND (1) NEW 1" ELECTRICAL CONDUITS WITH CONDUCTORS TO RUN FROM NEW GENERATOR TO NEW ATS. CONDUIT PROVIDED AND INSTALLED BY GENERAL CONTRACTOR. SEE E-1, E-2 \$ E-3.
- (2) NEW I" ELECTRICAL CONDUIT WITH CONDUCTORS TO RUN FROM NEW GENERATOR TO AC PANEL.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

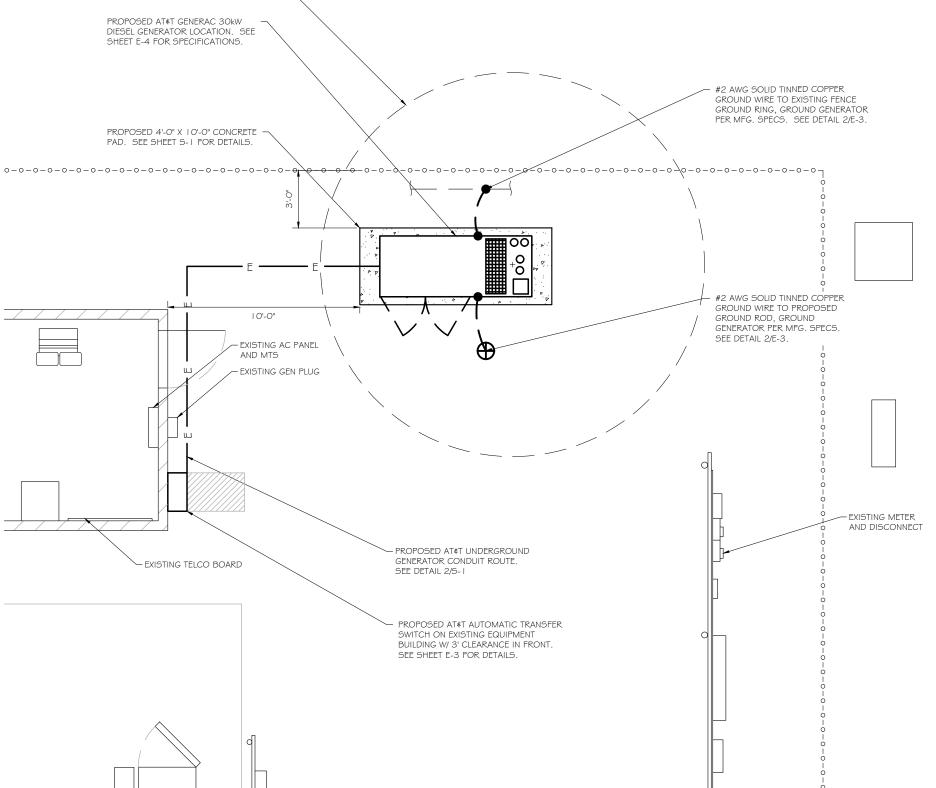
#### GROUNDING:

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'-O" APART.

PROVIDE NEW H-FRAME IF REQUIRED. MATCH EXISTING H-FRAME MATERIAL FOR CONSTRUCTION OF NEW H-FRAME. USE ALL GALVANIZED COMPONENTS, WHITE PLASTIC END CAPS ON UNISTRUTS, WEATHER CAPS ON TOPS OF PIPE AND CONCRETE SUPPORTS BELOW FROST LINE. TOP OF FOOTING SHOULD BE AT LEAST 2" ABOVE EXISTING GROUND LEVEL. SLOPE THE GROUND AWAY FROM THE H-FRAME FOR POSITIVE WATER DRAINAGE OFF







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#### PREPARED FOR:



#### CONSULTANT:

#### GENERAL DYNAMICS

Information Technology, Inc.

**GENERAL DYNAMICS** 661 MOORE RD STE 110 KING OF PRUSSIA, PA 19406

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



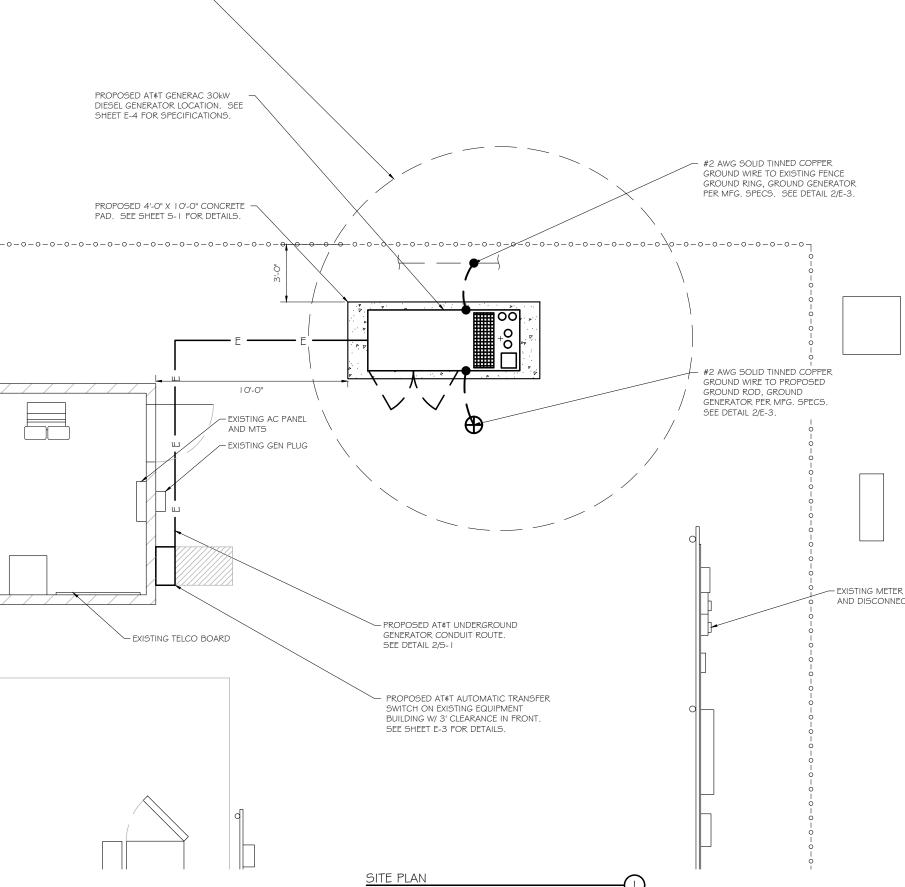
FINAL DATE 3/27/2020

**COLCHESTER MAHONEY** RD FA ID # 10042314

29 MAHONEY ROAD COLCHESTER, CT 06415

SITE PLAN & EQUIPMENT LAYOUT

0	2.	5'	5	1		10'
11" x 22" x			" = 5  " = 2			
PROJECT NUMBER	Ţ		2	458	15	
SHEET NUMBER				A-2	2	

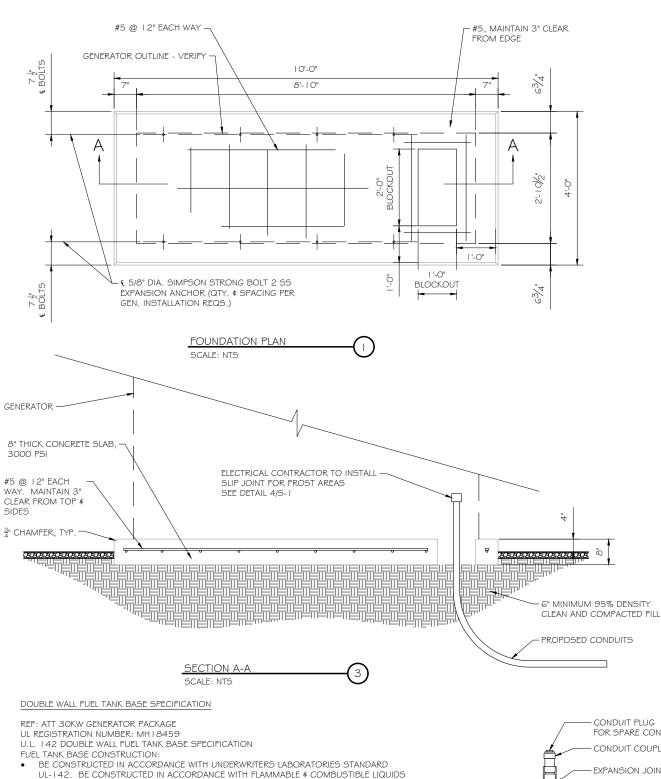




 $\odot$ 







- 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

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

PER UL-142 STANDARDS

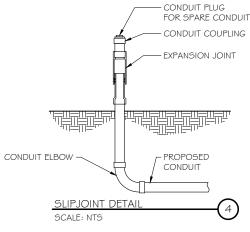
FUEL FILL: 5 GALLON SPILL CONTAINMENT WITH ALARM

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 1 I 0% OF THE TANK CAPACITY TO PREVENT ESCAPE OF FUEL INTO THE ENVIRONMENT IN THE EVENT OF A TANK RUPTURE. A FUEL CONTAINMENT BASIN LEAK DETECTOR SWITCH SHALL BE PROVIDED



NOTE:

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

6"

SERVICE POLE, BTS EQUIPMENT, ETC.)

SCALE: NTS

3. INSTALL UTILITY PULLBOXES PER NEC

UTILITY CONDUIT TRENCH

6" TYP

\* 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

RESTORE SURFACE TO MATCH ORIGINAL CONDITION

- UNDISTURBED SOIL

6" WARNING TAPE

COMPACTED BACKFILL

ELECTRICAL CONDUIT(S) WHERE APPLICABLE \*

(SUITABLE ON SITE MATERIAL)

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#### PREPARED FOR:



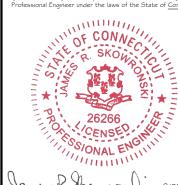
#### CONSULTANT:

#### **GENERAL DYNAMICS**

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GENERAL DYNAMICS 661 MOORE RD STE 110 KING OF PRUSSIA, PA 19406

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FINIAL

DATE 3/27/2020 **COLCHESTER MAHONEY** 

RD

FA ID # 10042314

29 MAHONEY ROAD COLCHESTER, CT 06415

FOUNDATION DETAILS

SCALE: NONE

45815 SHEET S-

## STRUCTURAL GENERAL NOTES

- LO 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.
- USE 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

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 PSI

3.1 MEET OR EXCEED THE FOLLOWING CODES & STANDARDS:

DESIGN : ACI3 | 8- | | CONSTRUCTION : ACI301

: CRSI MANUAL OF STANDARD PRACTICE DETAILING REINF. STEEL : ASTM A 615 GRADE 60, DEFORMED 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 3.3 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

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.

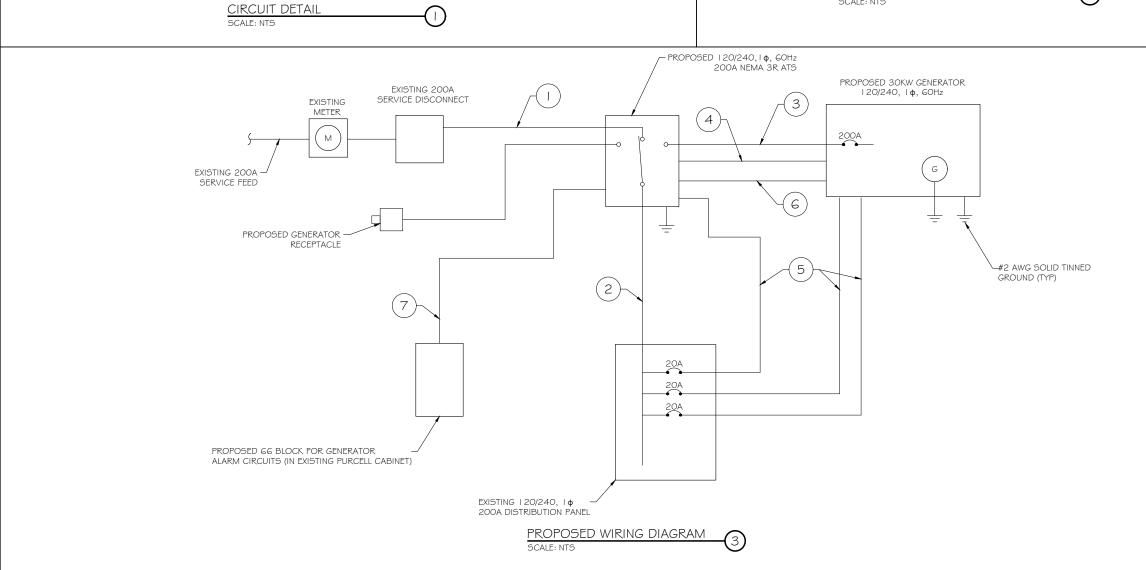
NO.	FROM	ТО	WIRES	GROUND	CONDUIT SIZE	FUNCTION
	NORMAL POWER SOURCE	AUTOMATIC TRANSFER SWITCH	(3) 3/0	(1) #4	2"	NORMAL POWER FEEDER TO ATS (CUT BACK EXISTING)
2	AUTOMATIC TRANSFER SWITCH	LOAD CENTER	(3) 3/0	(1) #4	2"	POWER FEEDER FROM ATS TO PANEL
3	GENERATOR	AUTOMATIC TRANSFER SWITCH	(3) 3/0	(1) #4	2"	EMERGENCY POWER FEEDER TO ATS
4	AUTOMATIC TRANSFER SWITCH	GENERATOR	(2) #10	(1) #10	1"	START CIRCUIT
5	LOAD CENTER (DISTRIBUTION CENTER)	GENERATOR, ATS	(2) #12 (2) #12 (2) #12	(1) #12 (1) #12 (1) #12	"   "   "	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				

ALARM WIRING IDENTIFICATION CHART

SCALE: NTS





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#### PREPARED FOR:



CONSULTANT:

#### GENERAL DYNAMICS

Information Technology, Inc.

GENERAL DYNAMICS 661 MOORE RD STE 110 KING OF PRUSSIA, PA 19406

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DATE 3/27/2020

FINAL

**COLCHESTER MAHONEY** 

RD FA ID # 10042314

29 MAHONEY ROAD COLCHESTER, CT 06415

SHEET TITLE:

WIRING DETAILS

SCALE: NONE

45815 SHEET E- 1

	AC Distribution Panel - Layout Diagram								
Breaker	Breaker				Breaker	Breaker			
Position	Туре	On/Off	Size	Circuit Label	Position	Туре	On/Off	Size	Circuit Label
1	2P	ON	50	HVAC#1	2	1P	ON	, 20	ATS
3	2P	ON	50	IIVAC#1	4	1P	ON	20	TELCO RECEPT
5	1P	ON	20	INTERIOR LIGHTS	6	1P	ON	20	RECEPT LEFT
7	1P	NO	20	GFCI	8	2P	ON	50	HVAC #2
9	1P	ON	20	EXTERIOR LIGHTS	10	2P	ON	50	HVAC#2
11	2P	ON	30	RECTIFIER #1	12	2P	ON	30	RECTIFIER #2
13	2P	ON	30	RECTIFIER#1	14	2P	ON	30	RECTIFIER #2
15	2P	ON	30	RECTIFIER #3	16	2P	ON	30	RECTIFIER #4
17	2P	ON	30	RECTIFIER #3	18	2P	ON	30	RECTIFIER #4
19	2P	ON	30	DECETIFIED UP	20	2P	ON	30	RECTIFIER #6
21	2P	ON	30	RECTIFIER #5	22	2P	ON	30	RECTIFIER #6
23	2P	ON	30	RECTIFIER #7	24	2P	ON	30	DECTIFIED #0
25	2P	ON	30		26	2P	ON	30	RECTIFIER #8
27	2P	ON	30	DECTIFIED #0	28	1P	ON	20	RECEPT RIGHT
29	2P	ON	30	RECTIFIER #9	30	1P	ON	, 20	BLOCK HEATER
31	1P	ON	20	POWER FAIL RELAY	32	1P	ON	20	SMOKE DETECTOR
33	1P	ON	20	POWER FAIL RELAY	34	1P	ON	20	BATTERY CHARGER
35				BLANK	36			17	BLANK
37				BLANK	38			1	BLANK
39				BLANK	40				BLANK
41				BLANK	42				BLANK
43				BLANK	44				BLANK
45				BLANK	46				BLANK
47				BLANK	48				BLANK
49				BLANK	50				BLANK
51				BLANK	52				BLANK
53				BLANK	54				BLANK

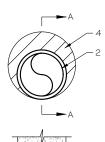
PROPOSED 20A BREAKERS FOR ATS, BLOCK HEATER -AND BATTERY CHARGER ON NEW AT&T GENERATOR

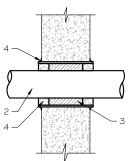
EXISTING PANEL SCHEDULE

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





- 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- I 150 CONDUIT THROUGH BEARING WALL SIMILAR TO U.L. DESIGN NO. U902 F RATING = 3 HRT 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.
- 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 I -3/8". THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR CONDUITS MAY BE USED:
  - A. STEEL PIPE-NOMINAL G" 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
- 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. : CP6015, CP604, CP606, OR FS-ONE

\* BEARING THE UL CLASSIFICATION MARK

#### OUTER WALL PENETRATION DETAIL (IF APPLICABLE)







ۯ7]

Type VN



THROUGH CABLE TO TOP OF

GROUND ROD.

Type\_VS ` HORIZONTAL CABLE TAP TO CABLE TAP DOWN AT 45°TO VERTICAL STEEL SURFACE OR SIDE VERTICAL STEEL SURFACE OR THE SIDE OF HORIZONTAL PIPE OF HORIZONTAL OR VERTICAL PIPE.





T<u>ype</u> VV THROUGH VERTICAL CABLE VERTICAL STEEL
SURFACE OR TO
THE SIDE OF
EITHER
HORIZONTAL OR
VERTICAL PIPE



HORIZONTAL CABLE TAP TO HORIZONTAL STEEL SURFACE OR PIPE. CABLE OFF SURFACE.



GROUND ROD



Гуре ТА TEE OF HORIZONTAL RUN AND TAP CABLES.



DATE 3/27/2020 **COLCHESTER MAHONEY** RD FA ID # 10042314

100% EMPLOYEE-OWNED

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MININAL -

Information Technology, Inc.

PREPARED FOR:

CONSULTANT:

**GENERAL DYNAMICS** 

661 MOORE RD STE 110

KING OF PRUSSIA, PA 19406

29 MAHONEY ROAD COLCHESTER, CT 06415

FINAL

SHEET TITLE:

PANEL AND PENETRATION DETAILS

SCALE: NONE

45815 E-2 SHEET

CADWELD DETAILS

CONDUIT (TYP) (2)

BUTTERFLY CLAMP AS REQUIRED

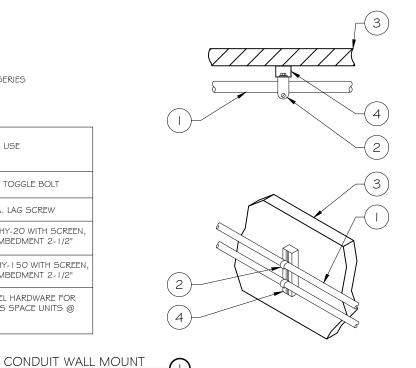
(3)

EXISTING WALL/CEILING

VERTICAL "UNISTRUT" PI 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'-0" O.C. LENGTH OF RUN



- CADWELD

– GRADE #2 AWG BCW GROUND RING GROUND ROD

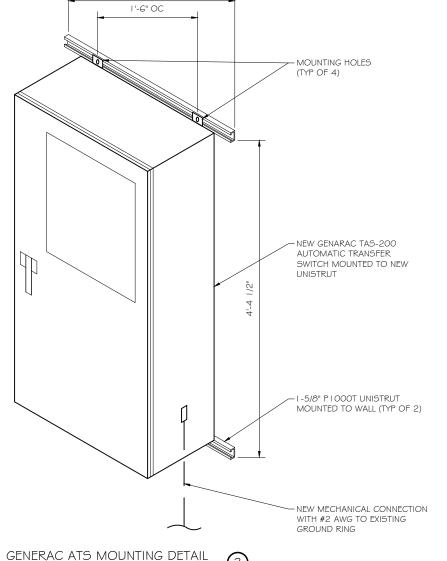
- GROUND RODS MAY BE: - COPPER CLAD STEEL SOLID COPPER
- GROUND RODS SHALL HAVE A MAXIMUM SPACING TWICE THE LENGTH OF ROD
- SEE RESISTIVITY REPORT FOR VERIFICATION AS AVAILABLE
- A LARGER CONDUCTOR SHALL BE REQUIRED IN AREAS HIGHLY PRONE TO LIGHTNING AND/OR AREAS WITH HIGHLY ACIDIC SOIL
- GROUND RODS INSTALLED WITHIN CLOSE PROXIMITY TO TOWER OR WHEN SOIL IS AT OR BELOW 2,000 OHM-CM, SHALL BE GALVANIZED TO PREVENT GALVANIC CORROSION OF TOWER, (SEE ANSI/TIA-EIA-222-G)
- PROVIDE (I) GROUND LEAD TO EACH SIDE OF THE GENERATOR

# COPPERWELD 5/8"Ø x 8'-0" LONG (MAX)



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



2'-6"

608-643-4100 www.Ramaker.com Sauk City, WI • Willmar, MN Woodcliff Lake, NJ · Bayamon, PR PREPARED FOR: **Mobility** CONSULTANT: GENERAL DYNAMICS Information Technology, Inc. **GENERAL DYNAMICS** 661 MOORE RD STE 110 KING OF PRUSSIA, PA 19406 hereby certify that this plan, specification, or report was prepare by me or under my direct supervision and that I am a duly Licensec Professional Engineer under the laws of the State of <u>Connecticut</u>. FINAL **COLCHESTER MAHONEY** RD FA ID # 10042314

> 29 MAHONEY ROAD COLCHESTER, CT 06415

SCALE: NONE

ATS, CONDUIT & GROUND ROD DETAILS

45815

E-3

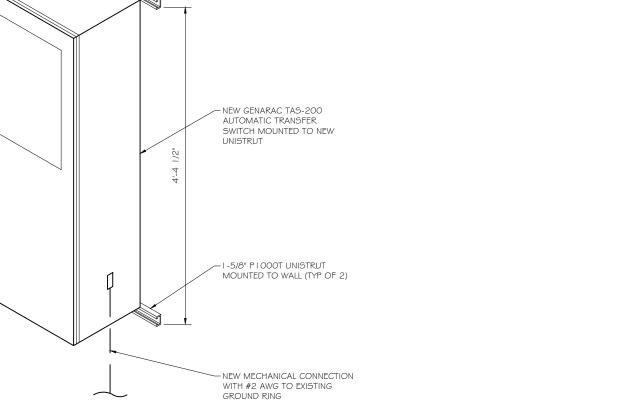
SHEET TITLE:

SHEET

DATE 3/27/2020

100% EMPLOYEE-OWNED

855 Community Dr, Sauk City, WI 53583



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







GENERAC\* INDUSTRIAL

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 Connectio
- · 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** 

**Program Functions** 

· Programmable Crank Limiter

• 7-Day Programmable Exerciser

• RS-232/485 Communications

Date/Time Fault History (Event Log)

Isochronous Governor Control

Waterproof/Sealed Connectors

· 2-Wire Start Capability

- Battery Cables
- Battery Tray
- Rubber-Booted Engine Electrical Connections

Digital H Control Panel- Dual 4x20 Display

Special Applications Programmable Logic Controller

· All Phase Sensing Digital Voltage Regulator

· 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

GENERAC INDUSTRIAL

- 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 Polvester Powder Coat Paint
- Stainless Steel Hardware

- · 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<sup>®</sup> 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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CONSULTANT:

PREPARED FOR:

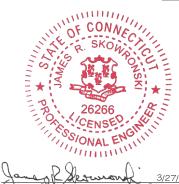
# **GENERAL DYNAMICS**

Information Technology, Inc. **GENERAL DYNAMICS** 

661 MOORE RD STE 110

KING OF PRUSSIA, PA 19406

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



**COLCHESTER MAHONEY** RD

DATE 3/27/2020

FA ID # 10042314 29 MAHONEY ROAD 2 of 6 COLCHESTER, CT 064 | 5

GENERAC 30KW GENERATOR **SPECIFICATIONS** 

SCALE: NONE

45815 SHEET E-4

GENERAC 30KW GENERATOR SPECIFICATIONS SCALE: NTS



INDUSTRIAL DIESEL GENERATOR SET

SD030 | 2.2L | 30 kW

GENERAC\* | INDUSTRIAL

EPA Certified Stationary Emergency

#### **CONFIGURABLE OPTIONS**

#### **ENGINE SYSTEM**

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

#### **FUEL SYSTEM**

O NPT Flexible Fuel Line

#### **ELECTRICAL SYSTEM**

- O 10A UL Listed Battery Charger
- O Battery Warmer

#### **ALTERNATOR SYSTEM**

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

#### **GENERATOR SET**

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

# **ENGINEERED OPTIONS**

#### **ENGINE SYSTEM**

- Coolant Heater Isolation Ball Valves
- O Fluid Containment Pan

#### CONTROL SYSTEM

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

#### **CIRCUIT BREAKER OPTIONS**

- O Main Line Circuit Breaker
- O 2nd Main Line Circuit Breaker
- O 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
- O Up to 200 MPH Wind Load Rating (Contact Factory for Availability)
- AC/DC Enclosure Lighting Kit
- O Door Alarm Switch
- Enclosure Heater O Damper Alarm Contacts

- WARRANTY (Standby Gensets Only) 2 Year Extended Limited Warranty
- O 5 Year Limited Warranty
- O 5 Year Extended Limited Warranty
- O 7 Year Extended Limited Warranty O 10 Year Extended Limited Warranty

#### **CONTROL SYSTEM**

- O NFPA 110 Compliant 21-Light Remote Annunciator
- O Remote Relay Assembly (8 or 16)
- Oil Temperature Indication and Alarm
- O Remote E-Stop (Break Glass-Type, Surface Mount) O Remote E-Stop (Red Mushroom-Type,
- Surface Mount) 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
- O 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
- 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 Fire Rated Stainless Steel Fuel Hose

#### **FUEL TANKS**

- ALTERNATOR SYSTEM O 3rd Breaker System
- **GENERATOR SET**
- Special Testing

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

# SD030 | 2.2L | 30 kW

INDUSTRIAL DIESEL GENERATOR SET

**EPA Certified Stationary Emergency** 

#### **APPLICATION AND ENGINEERING DATA**

#### **ENGINE SPECIFICATIONS**

$\sim$	_		J

/lake	Perkins
PA Emissions Compliance	Stationary Emergency
PA Emissions Reference	See Emission Data Sheet
Cylinder #	4
уре	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
ntake 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 - ot (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%	

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)

GENERAC INDUSTRIAL

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

Coupling	Direct via Flexible Disc
Load Capacity - Standby	100%
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Digital
Number of Sensed Phases	All

FA ID # 10042314 29 MAHONEY ROAD 4 of 6 COLCHESTER, CT 064 15

FINAL

GENERAC 30KW GENERATOR **SPECIFICATIONS** 

**COLCHESTER MAHONEY** RD

DATE 3/27/2020

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GENERAL DYNAMICS

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

Information Technology, Inc.

PREPARED FOR:

CONSULTANT:

**GENERAL DYNAMICS** 

661 MOORE RD STE 110

KING OF PRUSSIA, PA 19406

SCALE: NONE

45815 E-4. SHEET

GENERAC 30KW GENERATOR SPECIFICATIONS SCALE: NTS

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

**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
K0050124V21	98	K0050124V21	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 fuel 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)	See Bulletin	No. 0199280SSD
Maximum Radiator Backpressure	in HaO (kPa)	0.5 (0.12)

**EXHAUST** 

#### **COMBUSTION AIR REQUIREMENTS**

	Statiuby
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)

Standby 296.6 (8.4) Exhaust Flow (Rated Output) scfm (m3/min) Max. Allowable Backpressure (Post Turbocharger) inHg (kPa) 1.5 (5.1) Exhaust Temp (Rated Output) 892 (478)

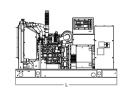
Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions. Please contact a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528, and DIN6271 standards.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

# SD030 | 2.2L | 30 kW

INDUSTRIAL DIESEL GENERATOR SET

**EPA Certified Stationary Emergency** 

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

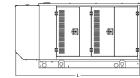




# **OPEN SET (Includes Exhaust Flex)**

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)

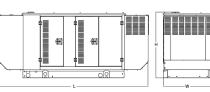
GENERAC INDUSTRIAL





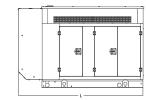
#### **WEATHER PROTECTED ENCLOSURE**

Run Time	Usable Capacity	L x W x H - in (mm)		: - Ibs (kg) sure 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	0.44
47	132 (501)	94.8 (2,409) x 38.0 (965) x 74.5 (1,893)	- 372 - (170)	241 (110)
75	211 (799)	94.8 (2,409) x 38.0 (965) x 86.5 (2,198)	(170)	(110)
107	300 (1,136)	94.8 (2,409) x 38.0 (965) x 86.5 (2,198)		



# **LEVEL 1 ACOUSTIC ENCLOSURE**

Run Time	Usable Capacity	L x W x H - in (mm)		t - Ibs (kg) sure Only
- nours	- 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)	505	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)	(200)	(10-1)
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	L x W x H - in (mm)		- Ibs (kg) ure Only
- Hours	- Gal (L)		Steel	Aluminum
No Tank	-	94.8 (2,407) x 38.0 (965) x 61.1 (1,551)		
19	54 (204)	94.8 (2,407) x 38.0 (965) x 74.1 (1,881)	540	341
47	132 (501)	94.8 (2,407) x 38.0 (965) x 86.1 (2,186)	510 (232)	(155)
75	211 (799)	94.8 (2,407) x 38.0 (965) x 98.1 (2,491)	(202)	(100)
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

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

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#### PREPARED FOR:



#### CONSULTANT:

### GENERAL DYNAMICS

Information Technology, Inc.

GENERAL DYNAMICS 661 MOORE RD STE 110 KING OF PRUSSIA, PA 19406

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DATE 3/27/2020 **COLCHESTER MAHONEY** 

RD FA ID # 10042314

29 MAHONEY ROAD 6 of 6 COLCHESTER, CT 06415

GENERAC 30KW GENERATOR SPECIFICATIONS

SCALE: NONE

45815 E-4.2

GENERAC 30KW GENERATOR SPECIFICATIONS SCALE: NTS

<sup>\*\*</sup> Refer to "Emissions Data Sheet" for maximum bHP for EPA and SCAQMD permitting purposes.

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



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



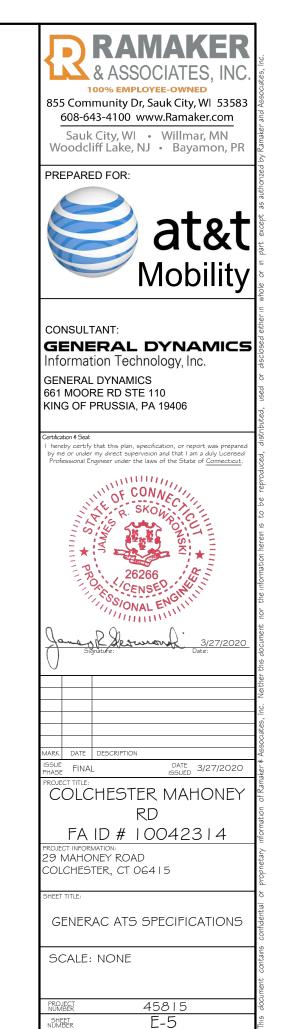
NEMA 250

## **Application and Engineering Data**

Cabinet Specifications	
Dimensions	24"W x 12"D x 48"H
Weight	210 lbs.
	Single Chamber with Main Door
	Steel
	UL Type / NEMA 3R Rated
Construction	Powder Coat Finish for Corrosion Resistance
	C-UL-US Listed - Automatic Transfer Switch
	Stainless Steel Hardware
	3-Point Latching System with Pad-Lockable Handles
Mounting Options	Wall
Mounting Options	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	
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	
Alama Tamainal Danid	Generator Fail – Non Shutdown Alarm	
Alarm Terminal Board	Low Fuel Alarm	
	Generator Theft Alarm	
	AC Utility Fail Alarm	

Camlock Component				
Camlock Component	Shipped loose for multiple installation options			
Dimensions	9" W x 9.4" D x 24.25" H	GENERAC		
	Single-Phase: Black L1, Red L2, White-Neutral, Green-Ground			
0004 0	3-Phase: Black L1, Red L2, Blue L3, White-Neutral, Green-Ground			
200A Camlock Generator Connection	Uses 4 CH E1016 Male Connectors			
	Mating Connector – CH E1016 Female			



GENERAC ATS SPECIFICATIONS

SCALE: NTS





#### 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

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GENERAL DYNAMICS 661 MOORE RD STE 110 KING OF PRUSSIA, PA 19406

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



FINAL

DATE 3/27/2020 **COLCHESTER MAHONEY** 

RD FA ID # 10042314

29 MAHONEY ROAD COLCHESTER, CT 06415

GENERAC ATS SPECIFICATIONS

SCALE: NONE

45815 E-5. SHEET

GENERAC ATS SPECIFICATIONS

# **Details**

**Property** 

Address ID 29 MAHONEY RD 28-03-03-002-000

Account

11AT0002

Ownership

Name 1 SBA PROPERTIES INC

Name 2 ATTN TAX DEPARTMENT

CT002652

Address 8051 CONGRESS AVE,

BOCA RATON, FL 33487-1307

Last Sale \$0 on 2011-10-01

Book / 000/ 000

Page

Valuation

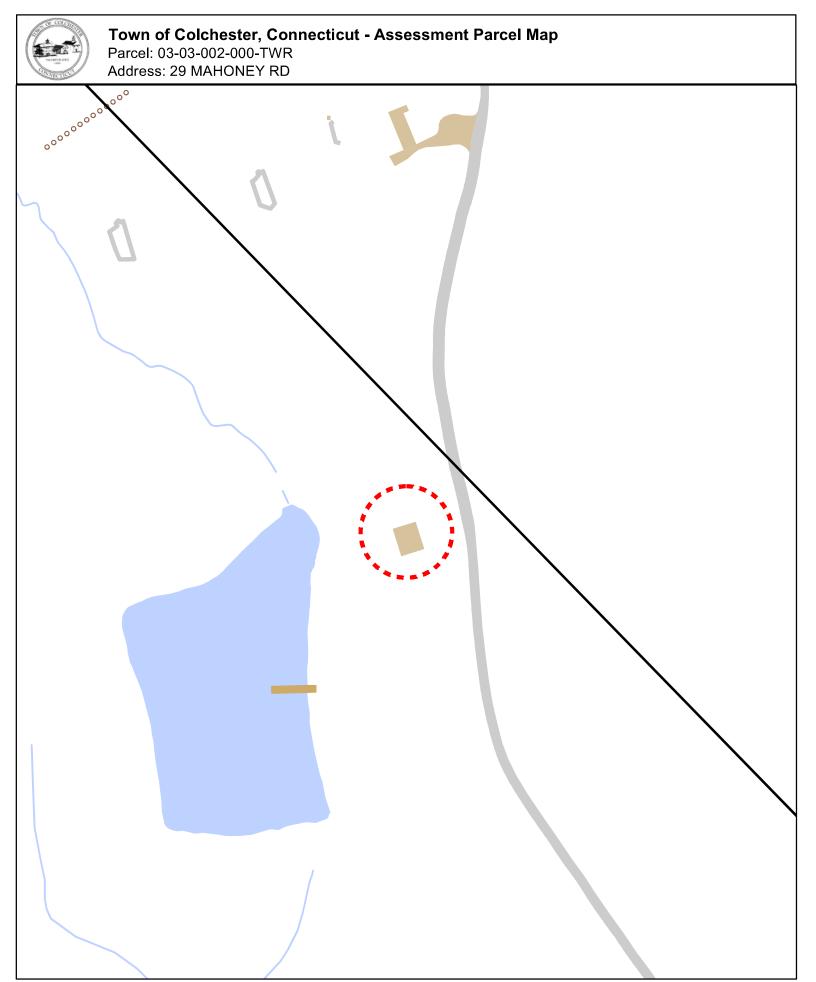
Total \$442,800

Building \$0

Land \$0

Land

Area 0.00 Land Use Code 4310 Land Description Tel Rel Tw



## ATTACHMENT 2

# MINUTES OF MEETING COLCHESTER ZONING AND PLANNING COMMISSION REGULAR MEETING AND PUBLIC HEARINGS WEDNESDAY, MARCH 15, 2000 – 7:00 P.M. TOWN HALL, 127 NORWICH AVENUE, COLCHESTER, CT

MEMBERS PRESENT: Robert Weeks Ph.D., James Ford, Mark Noniewicz, John Gagnon, Linda Keift-Robitalle, Joseph Mathieu, Michel Ciccone, Ronald Vasquez,

MEMBERS ABSENT: John Mahoney

STAFF PRESENT: Larry Dunkin, AICP, Planning Director, Liz Rasmussen, CZEO, Zoning Enforcement Officer and Lisa Smith, Clerk

- 1. CALL MEETING TO ORDER Chairman Weeks called the meeting to order at 7:05PM
- 2. ADDITIONS TO AGENDA -
- L. Rasmussen advised Chairman Weeks of the following applications:

SUB#2000-309, Jeremy River Drive and River Road, Application of Richard M. Martin for 1 Lot Resubdivision.

RC#2000-124, Application of the Town of Colchester for zoning regulation change to amend Section 21 - Flood Hazard Overlay District.

MOTION by John W. Ford, SECOND by Linda Keift-Robitaille TO ADD UNDER NEW APPLICATIONS SUB#2000-309 as ITEM F and RC#2000-124 as ITEM G. MOTION CARRIED UNANIMOUSLY.

- 3. PUBLIC HEARINGS
- L. Rasmussen read the legal warnings.
- A. RC#2000-122, Colchester Zoning and Planning Commission, Regulations Changes regarding Wireless Telecommunications Sites

Chairman Weeks received unanimous consent to waive the reading of the Record Items. The following items were entered into the record:

- A. Application, dated 1/26/2000
- B. Proposed Text Changes, dated 1/26/2000
- C. Referral to Southeastern Connecticut Council of Governments (SCCOG), dated 1/27/2000
- D. Referral to Midstate Regional Planning Agency, dated 1/27/2000
- E. Referral to Capitol Region Council of Governments (CRCOG), dated 1/27/2000
- F. Referral to Windham Region Council of Governments (WINCOG), dated 1/27/2000
- G. Letter (response) from Katherine Hold, Chairman, WINCOG RPC, dated 1/27/2000

Page 2

- H. Letter (responses) from CRCOG, dated 2/22/2000
- I. Hartford Courant Legal Notice March 3 and March 10, 2000
- J. Rivereast News Bulletin Legal Notice March 3 and March 10, 2000
- K. Comments and revisions from Lisa Gladke, Town Attorney dated 3/2/2000
- L. Memo (comments) Lisa Gladke, Town Attorney, dated 3/2/2000
- M. Letter (response) from Gene Lohrs, Chairman, Reference Committee, SCCOG, dated 3/2/2000
- N. Letter (response) from Geoffrey Colegrove, Executive Director, Midstate Regional Planning Agency, dated 3/7/2000
- O. Staff Report Larry Dunkin, AICP, Planning Director
- P. Letter (response) from Geoffrey Colegrove, Executive Director, Midstate Regional Planning Agency, dated 3/8/2000
- Q. Revised Text Changes, dated 3/15/2000
- L. Dunkin explained that this application was developed by staff and the Commission to provide specific regulations for Wireless Telecommunication Sites, including tower and monopole locations. Town Counsel has also reviewed the proposed amendment and the majority of the changes recommended by Town Counsel (Record Item "K") have been incorporated into the revised copy that L. Dunkin distributed to the Commission. The current Zoning Regulations provide for Wireless Telecommunication Sites as simple site plan reviews, with the Commission's "permission" necessary to exceed the height requirements. This affords the Commission little in the way of meaningful criteria to judge the propriety of such proposals.
- L. Dunkin explained that the proposed amendment addresses Wireless Telecommunication Sites in a comprehensive manner, by establishing both specific development requirements and standards to be met under Special Exception review by the Commission. The criteria were developed being mindful of Federal Regulations that prohibit municipalities from having such strict local requirements that Wireless Telecommunication Sites are precluded altogether. He noted that these regulations do not apply to amateur (ham) radio antennas.
- M. Noniewicz inquired about comments from the Regional Planning Agency, which suggested adding 19ft to height requirements to allow additional facilities to be placed on towers. Discussion ensued on whether an additional 19ft is needed so antenna could extend above the 180 foot tower. He also addressed comments concerning limiting size of equipment sheds and trailers on site. L. Dunkin suggested that size limits for equipment sheds would probably be unnecessary because of limited space within fenced enclosures. M. Noniewicz asked if the proposed amendment reflected limiting antenna and receiver size. L. Dunkin stated that the proposal does not include such requirements, noting that Town Council cautioned about overly restrictive regulations. He suggested that the engineering specifications for towers limit what can be placed on them.
- J. Mathieu questioned the response from Geoffrey Colegrove recommending including peer review and asked if any consideration was given to the recommendation. Discussion ensued on determining which kind of professionals would be needed for the review. M. Ciccone asked if criteria would need to be in place to determine which application needs a peer review. L. Dunkin stated criteria would have to be established by the Commission that would trigger a review but recommended against adding additional layers to the application process.

## Speaking in Favor

Ester McNany of SBA, Inc. spoke in favor of the proposed changes in the amendment and agreed that overall the changes are thorough but suggested the following possible changes:

#### In Section 11.18.2:

Questioned need for a licensed engineer in Sections .2 & .3 - suggested radio frequency engineer instead.

Questioned requirement for letters from the FAA certifying compliance in Section .3 because if such a document is issued at all it, is after a tower is built.

Requested clarification on item #9 regarding on-site simulations.

Suggest adding a Section .11 requiring applicant to document steps taken to minimize visual impact.

#### In Section 11.18.3:

Questioned Section .1 and suggested adding an additional 19ft for antennas, which may exceed the 180ft tower height.

Suggested adding a definition of Fall Zone in Section .1. Submitted Town of Marlborough definitions for the Commission's consideration. Commission received same as Record Item "R".

Suggested increasing minimum height requirements to 150ft from 100ft in Section .9.

Suggested changing the phrase in Section .16 regarding fencing the leased area to allow for maintenance outside the fence but still on the site.

Ms. McNany also observed that other towns have required peer review at the expense of the applicant, but noted that it is difficult find qualified people to make such a review.

# Speaking in Opposition

Cele Bogush spoke in opposition of the proposed amendment, commenting on the following:

Questioned why there are no fees established.

Questioned why there are no lot size requirements, suggesting a minimum of 2 acres.

Suggested the phrase be changed to "licensed engineers from the State of Connecticut."

Questioned why there is no Statement of Purpose.

Suggested 500ft setbacks from schools, churches, daycares, elderly housing projects, etc.

Suggested driveway and parking requirements.

Questioned Conservation Commission requirements.

In response to Mrs. Bogush, L. Dunkin relayed the following:

Fees are set by ordinance, not by the Commission.

Two acre lot sizes would be overly restrictive.

A Statement of Purpose is not necessary as the proposed amendments are to be integrated throughout the regulations.

A 500ft setback as suggested would be overly restrictive.

Additional separate driveway and parking requirements for towers are unnecessary.

Conservation Commission approvals, if required, will occur without specific mention in the amendment.

Speaking in Rebuttal of those who spoke in Opposition - None

Speaking in Rebuttal of those who spoke in Favor

Cele Bogush inquired how the town would be protected monetarily if the tower site is abandoned.

Cele stated other neighboring towns do not have as many tower sites as Colchester because of tighter regulations by these towns.

In response to Mrs. Bogush, L. Dunkin relayed the following:

All applicants are required to post a bond of 10% of the construction cost prior to obtaining a building permit with the stipulation that if the site is abandoned, the bond is forfeited.

It is illegal to be overly restrictive regarding telecommunication towers and towns are required to make reasonable accommodations for towers.

R. Weeks added that neighboring towns do not have three state highways running through their towns.

MOTION by Linda Keift-Robitaille, SECOND by John Gagnon to CLOSE THE PUBLIC HEARING. MOTION CARRIED UNANIMOUSLY.

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B. SE#2000-139, 61 Cemetery Road, Application of Robert S. Maltempo for Special Exception for Heliport

Applicant requested that this Public Hearing not be opened until the April 5, 2000 meeting.

C. SE#2000-140, 18 Old Amston Road, Application of John Slattery for Special Exception for Accessory Apartment

The following items were entered into the record:

- A. Application, dated 2/3/2000
- B. Front Elevations, Floor Plans, Site Plan Package
- C. Memo (comments), L. Rasmussen, Zoning Enforcement Officer, dated 2/24/2000
- D. Memo (comments), W. Mis, Health Director, dated 2/24/2000
- E. Memo (comments), A. Lathrop, Wetlands Enforcement Officer, dated 2/28/2000
- F. Hartford Courant Legal Notice March 3 and March 10, 2000
- G. Rivereast News Bulletin Legal Notice March 3 and March 10, 2000
- H. Revised Site Plan showing addition dimensions, received 3/2/2000
- I. Revised Site Plan showing fourth parking space, received 3/10/2000
- J. Memo (comments), L. Rasmussen, Zoning Enforcement Officer, dated 3/10/2000
- K. Staff Report, L. Dunkin, AICP, Planning Director, dated 3/8/2000
- L. Rasmussen explained that this application is part of an agreement, dated February 8, 2000, between the property owners, John E. Slattery and Hillery Lassow and the Town of Colchester to correct the current zoning violation and prevent further court proceedings against the owners.
- L. Dunkin summarized his staff report, stating that the applicant is requesting Special Exception approval for an accessory apartment on the subject property. In addition to the bulk requirements of the R-60 district, accessory apartments must also comply with the requirements of Section 11.15. The accessory apartment is currently above the detached garage, thus creating the zoning violation. The proposal is to connect the detached garage to the existing house by means of a connecting addition at the second floor level. He explained that the total area of the current residence is 2,866 sq.ft. The maximum allowable size for the accessory apartment is 955 sq.ft. The proposed accessory apartment is to be 835 sq.ft. in floor area. Access to the accessory apartment is proposed to be through the master bedroom of the residence. The second access is via an enclosed stairwell exiting at the side of the garage at ground level.
- L. Dunkin advised that consideration should be given to the propriety of allowing the primary access to an accessory apartment through a bedroom of the principal dwelling, as opposed to through a more common area such as an entry foyer. He further advised that consideration should also be given to the propriety of the side entrance meeting the requirement of an entrance in the rear of the structure.
- L. Rasmussen explained that a total of four off-street parking spaces are being provided.

The Commission expressed concerns about the second floor connector and the fact that access to the accessory apartment would be through a bedroom. The Commission expressed concerns about the

second entry being a rear entryway. The Commission expressed concerns that the connector is proposed as a second floor bridge to the garage instead of being built on the first floor.

## Speaking in Favor

Applicant John Slattery spoke in favor of the application, explaining that he was attempting to correct the zoning violation. He explained that he proposed a second story bridge connector because he might want to drive a horse trailer under the connecting addition in the future. He said he considered the second access to be in the rear of the building. Mr. Slattery further explained that his plan to correct the violation was drawn as proposed after consulting with Tim York, the Building Official.

# Speaking in Opposition

None

MOTION by John Gagnon, SECOND by Mark Noniewicz to CLOSE THE PUBLIC HEARING. MOTION CARRIED UNANIMOUSLY

# 4. FIVE MINUTE SESSION FOR THE PUBLIC

No one spoke

5. MINUTES OF THE PREVIOUS MEETING - 03/01/2000 Meeting 03/08/2000 Special Meeting

M. Noniewicz questioned page 3 of the 3/1/2000 meeting minutes concerning the deed to the City of Norwich. L. Dunkin explained the subdivision is within the Deep River Reservoir watershed owned by the City of Norwich, and that all of the open space parcels were so deeded.

MOTION by Linda Keift-Robitaille, SECOND by John Gagnon to APPROVE THE MINUTES OF THE 3/1/2000 MEETING. ABSTAINED: Mark Noniewicz, Michel Ciccone. MOTION CARRIED.

MOTION by Linda Keift-Robitaille, SECOND by Mark Noniewicz to APPROVE THE MINUTES OF THE 3/8/2000 SPECIAL MEETING. ABSTAINED: Michel Ciccone. MOTION CARRIED.

# 6. PENDING APPLICATIONS

- A. RC#2000-122, Colchester Zoning and Planning Commission, Regulations Changes regarding Wireless Telecommunications Sites
- L. Dunkin reviewed with the Commission the various changes discussed during the Public Hearing. Discussion ensued concerning tower height and antennas.

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MOTION by James Ford, SECOND by Michel Ciccone to change definition of Height of Tower, by deleting the words "including antennas or other appurtenances." MOTION CARRIED UNANIMOUSLY

J. Mathieu discussed using subsection 4 in section 11.18.2 as a new subsection 17, section 11.18.3 to make it another condition.

MOTION by Joseph Mathieu, SECOND by John Gagnon to delete subsection 4 in Section 11.18.2. and renumber the subsequent subsections appropriately. MOTION CARRIED UNANIMOUSLY

MOTION by Joseph Mathieu, SECOND by John Gagnon to add a new subparagraph 17 in Section 11.18.3 to read "Any tower proposed to be adjacent to an airport shall comply with all safety requirements as required by the FAA. The Commission may require documentation from the applicant demonstrating such compliance." MOTION CARRIED UNANIMOUSLY

J. Mathieu recommended a change in subparagraph 16, section 11.18.3 to replace "fenced-in area" with "compound." Some discussion ensued as to whether compound should be defined or if the word "leased" should be included. R. Weeks stated the word "leased" should not be included because it may not apply in every situation. L. Dunkin recommended the language "within 3ft of the entire perimeter" instead of "around".

MOTION by Joseph Mathieu, SECOND by Mark Noniewicz to replace the word "around" with the words "within 3ft of the" in subparagraph 16 of Section 11.18.3. MOTION CARRIED UNANIMOUSLY.

R. Weeks recommended changing the standards for total height for a Wireless Telecommunication Site in Section 11.18.3, subparagraph 1. Discussion ensued on what language should be used to include the additional 19ft as well as any antennas and appurtenances attached to the structure for total height. J. Mathieu proposed the sentence "Wireless Telecommunication Sites shall not exceed 199ft in height. The tower shall not exceed 180ft."

MOTION by Joseph Mathieu, SECOND by Mark Noniewicz change subparagraph 1 in Section 11.18.3 to read "No Wireless Telecommunication Sites shall exceed 199 feet in height." No towers shall exceed 180 feet in height." MOTION CARRIED UNANIMOUSLY.

J. Ford expressed concerns on language concerning fall zones. Discussion ensured on a generic definition of a fall zone. L. Dunkin read the Town of Marlborough's regulation defining a fall zone. J. Ford suggestion adding the first sentence of the Town of Marlborough Regulation concerning fall zones, placing the definition at the end and suggested keeping the sentence "should be prepared by a licensed engineer."

MOTION by James Ford, SECOND by Mark Noniewicz to incorporate the Town of Marlborough's definition of a fall zone into the proposed amendment to read as follows: "Fall Zone: The area or location within which a Tower, Antenna or any other material (such as ice) would drop, slide or settle in the event the Tower is blown from its support structure, collapses, or otherwise is dislodged from its foundation or mounting." MOTION CARRIED UNANIMOUSLY.

R. Weeks suggested an addition to subparagraph 9, Section 11.18.2 that delineates steps taken to eliminate visual impact.

MOTION by Mark Noniewicz, SECOND by James Ford to add sentence to subparagraph 9 of section 11.18.2 as follows: "The applicant shall delineate what steps have or will be taken to minimize the visual impact of the proposal." MOTION CARRIED UNANIMOUSLY.

J. Gagnon inquired as to whether the language concerning "licensed engineer" for approval should be changed to read "licensed radio frequency engineer." A discussion ensued and Commission members agreed the language should remain unchanged.

MOTION by James Ford, SECOND by Ronald Vasquez to APPROVE Regulation Change RC#2000-122 regarding Wireless Telecommunications Sites as amended by Staff in response to Town Counsel's recommendations (Record Item "K"), and as further amended by the preceding motions. MOTION CARRIED UNANIMOUSLY.

At this time, M. Noniewicz excused himself from the meeting.

B. SE#2000-139, 61 Cemetery Road, Application of Robert S. Maltempo for Special Exception for Heliport

MOTION by James Ford, SECOND by Ronald Vasquez to TABLE SE#2000-139. MOTION CARRIED UNANIMOUSLY.

C. SE#2000-140, 18 Old Amston Road, Application of John Slattery for Special Exception for Accessory Apartment

MOTION by Michel Ciccone, SECOND by Linda Keift Robitaille to DENY WITHOUT PREDJUDICE application SE#2000-140 because the proposed plan does not meet Section 11.15.7 of the Zoning Regulations. MOTION CARRIED UNANIMOUSLY.

D. SDP#2000-238, 29 Mahoney Road, Application of SBA, Inc., for Communications Tower (Tabled from 03/01/2000 meeting)

James Ford questioned notice to the Lebanon Planning and Zoning Commission. Ester McNany stated several efforts have been made to illicit a response to the application, and none have been forthcoming.

MOTION by James Ford, SECOND by John Gagnon to APPROVE application SDP#2000-238.

ABSTAINED: Michel Ciccone, Joseph Mathieu. MOTION CARRIED.

A recess was taken at 9:25PM The meeting resumed at 9:30PM





CONNECTICUT SITING COUNCIL

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December 16, 2019

Greg Milano SAI Group, LLC 12 Industrial Way Salem, NH 03079

RE: EM-CING-028-191120 – New Cingular Wireless PCS, LLC (AT&T) notice of intent to modify an existing telecommunications facility located at 29 Mahoney Road, Colchester, Connecticut.

Dear Mr. Milano:

The Connecticut Siting Council (Council) hereby acknowledges your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies with the following conditions:

- Prior to AT&T's antenna installation, the antenna mount modifications shall be installed in accordance with the Mount Analysis prepared by Hudson Design Group, LLC, dated September 3, 2019 and stamped and signed by Daniel Hamm;
- 2. Within 45 days following the completion of equipment installation, AT&T shall provide documentation certified by a Professional Engineer that its installation complied with the Mount Analysis;
- 3. Any deviation from the proposed modification as specified in this notice and supporting materials with the Council shall render this acknowledgement invalid;
- 4. Any material changes to this modification as proposed shall require the filing of a new notice with the Council;
- 5. Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed:
- Any nonfunctioning antenna and associated antenna mounting equipment on this facility owned and operated by AT&T shall be removed within 60 days of the date the antenna ceased to function;
- 7. The validity of this action shall expire one year from the date of this letter; and
- 8. The applicant may file a request for an extension of time beyond the one year deadline provided that such request is submitted to the Council not less than 60 days prior to the expiration.

The proposed modifications including the placement of all necessary equipment and shelters within the tower compound are to be implemented as specified here and in your notice dated November 15, 2019. 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 an existing facility site that would not increase tower height, extend the boundaries of the tower site by any dimension, increase noise levels at the tower

CONNECTICUT SITING COUNCIL
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site boundary by six decibels or more, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standards adopted by the Federal Communications Commission pursuant to Section 704 of the Telecommunications Act of 1996 and by the state Department of Energy and Environmental Protection pursuant to Connecticut General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below state and federal standards applicable to the frequencies now used on this tower.

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 this facility 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. Thank you for your attention and cooperation.

Sincerely,

Melanie A. Bachman Executive Director

MAB/IN/emr

c: The Honorable Mary Bylone, First Selectman, Town of Colchester Matthew Bordeaux, Town Planner, Town of Colchester SBA Communications, Tower and Property Owner

# ATTACHMENT 3

## **CERTIFICATION**

I hereby certify that on the 31st day of March 2020, a copy of AT&T's Exempt Modification Request to the Connecticut Siting Council was sent by electronic mail to the chief elected official and the planning and zoning department of the municipality in which the facility is located as well as by first class mail to the property owner and tower/facility owner.

Dated: March 31, 2020

Cuddy & Feder LLP 445 Hamilton Ave, 14<sup>th</sup> Floor White Plains, NY 10601 Attorneys for: New Cingular Wireless PCS, LLC (AT&T)

Lucia Chrocchio