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Lucia Chiocchio  
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3/25/20

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  
49 Wig Hill Road, Chester, CT 06412  
Lat.: 41.40388110° Long.: -72.47244310°

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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 49 Wig Hill Road in the Town of Chester, Connecticut. Negrelli Hazel C Family Trustee is the owner of the underlying property and Crown Castle is the owner of the tower. AT&T submits this letter and enclosures to the Connecticut Siting Council ("Council") to notify the Council of AT&T's intent to perform modifications to the existing facility that do not have substantial adverse environmental effects and thus do not require a certificate pursuant to Section 16-50k of the Connecticut General Statutes.

AT&T intends to install one (1) new Generac 20kW 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.<sup>1</sup> 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.”<sup>2</sup> 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 Council in 1994 by Docket No. 181 as illustrated by the Decision and Order dated May 13, 1998 enclosed as Attachment 2. This modification complies with the conditions of the aforementioned approval.

The proposed modifications will have no impact on the existing tower structure itself or the radio-frequency 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 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 by email to the Town First Selectwoman Lauren Gister and Planning & Zoning Department as well as by first class mail to

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

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

<sup>3</sup> R.C.S.A. § 22a-69-1.8.

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 Selectwoman Lauren Gister, Town of Chester  
Judy Brown, Zoning Enforcement Officer  
Crown Castle, Tower Owner  
Negrelli Hazel C Family Trustee, Property Owner  
AT&T  
General Dynamics Information Technology  
Daniel Patrick, Esq. & Julie Durkin, Cuddy & Feder, LLP

# ATTACHMENT 1



at&t Mobility

SITE NAME: CHESTER WIG HILL RD  
FA LOCATION CODE: 10035231  
CROWN BUN: 800515

GENERATOR PROJECT  
30KW GENERAC DIESEL GENERATOR  
200A GENERAC ATS

49 WIG HILL ROAD  
CHESTER, CT 06412

VICINITY MAP



AERIAL VIEW OF SITE



SCOPE OF WORK

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



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

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

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

APPLICABLE BUILDING CODE & STANDARDS

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

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

PROJECT INFORMATION

PROJECT MANAGER:

JOE JARVIS  
MARKET LEAD  
GENERAL DYNAMICS WIRELESS SERVICES  
661 MOORE RD STE 110  
KING OF PRUSSIA, PA 19406  
EMAIL: joseph.jarvis@gdit.com

SITE DATA:

SITE NAME: CHESTER WIG HILL RD  
FA NUMBER: 10035231

TOWER OWNER:

CROWN CASTLE  
2000 CORPORATE DR, 11TH FLOOR  
CANONSBURG, PA 15317

ENGINEER:

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

PROPERTY OWNER:

NEGRELLI HAZEL C FAMILY TRUSTEE  
P.O. BOX 1175  
TRURO, MA 02666

ADDRESS:

49 WIG HILL ROAD  
CHESTER, CT 06412

COUNTY: MIDDLESEX

LAT.: 41.40388110°  
LONG.: -72.47244310°

GROUND ELEVATION: 356 FT AMSL

APPLICANT INFORMATION:

AT&T MOBILITY  
7150 STANDARD DR  
HANOVER, MD 21076

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

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

SHEET INDEX

GENERAL:

T-1 TITLE SHEET

NOTES:

N-1 GENERAL NOTES

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A-2 SITE PLAN & EQUIPMENT LAYOUT  
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E-2 PANEL AND PENETRATION DETAILS  
E-3 ATS, CONDUIT & GROUND ROD DETAILS  
E-4 GENERAC GENERATOR SPECIFICATIONS  
E-4.1 GENERAC GENERATOR SPECIFICATIONS  
E-4.2 GENERAC GENERATOR SPECIFICATIONS  
E-5 GENERAC ATS SPECIFICATIONS  
E-5.1 GENERAC ATS SPECIFICATIONS

SIGNATURE BLOCK

AT&T MGR. \_\_\_\_\_ DATE \_\_\_\_\_

GENERAL DYNAMICS  
CONSTRUCTION MGR. \_\_\_\_\_ DATE \_\_\_\_\_

SITE ACQUISITION \_\_\_\_\_ DATE \_\_\_\_\_

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PREPARED FOR:



at&t  
Mobility

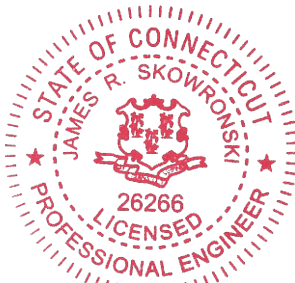
CONSULTANT:

**GENERAL DYNAMICS**  
Information Technology, Inc.

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

Certification & Seal:

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



Signature: *James R. Skowronski* Date: 3/18/2020


1	3/18/20	REVISED CD's
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MARK	DATE	DESCRIPTION
ISSUE	FINAL	DATE ISSUED 03/02/2020

PROJECT TITLE:

CHESTER WIG HILL RD  
FA ID # 10035231

PROJECT INFORMATION:  
49 WIG HILL ROAD  
CHESTER, CT 06412

SHEET TITLE:

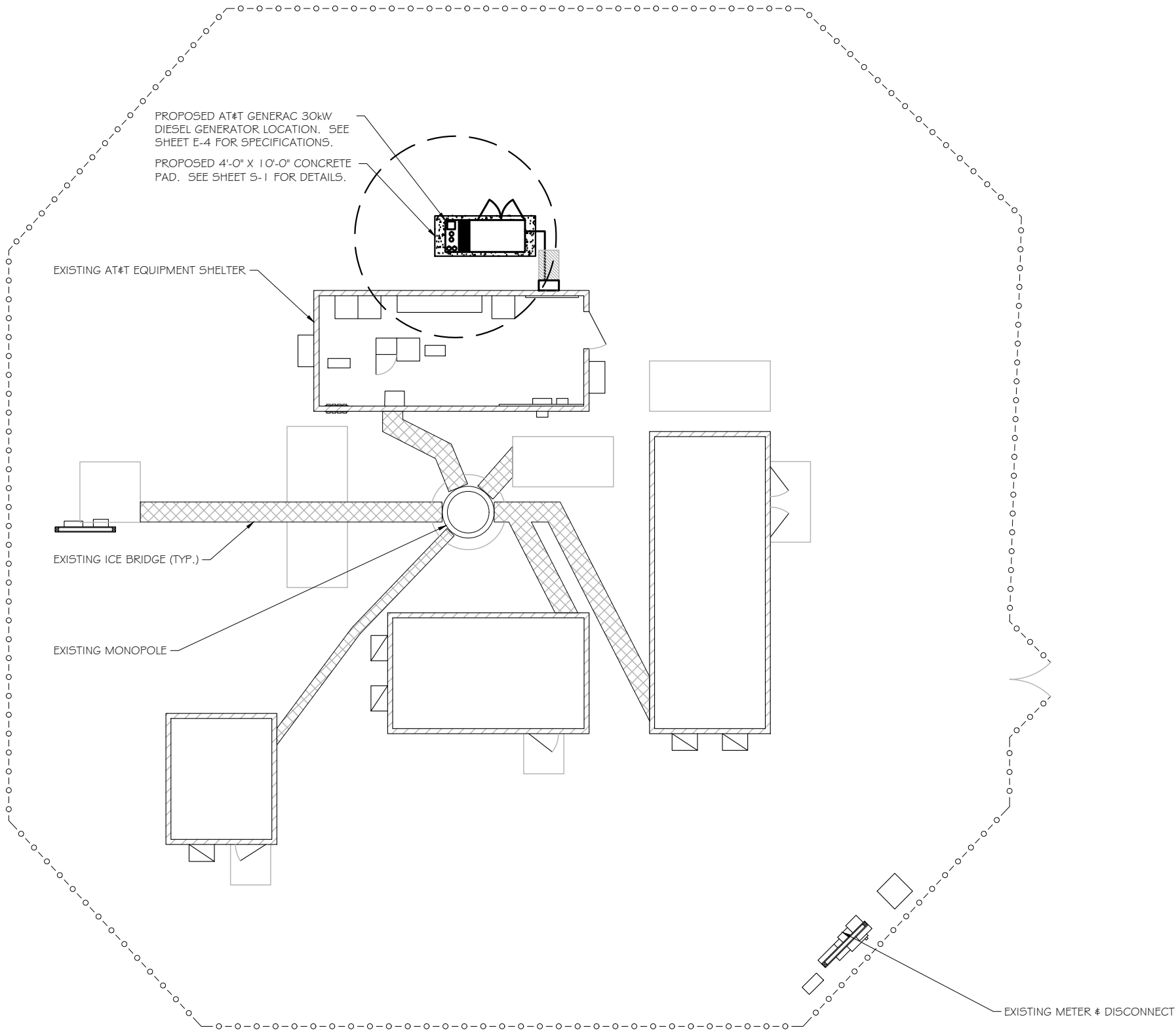
TITLE SHEET

SCALE: NONE

PROJECT NUMBER	45811
SHEET NUMBER	T-1







SITE PLAN  
SCALE: 1" = 12.5'





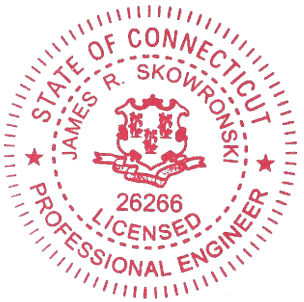
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PREPARED FOR:



CONSULTANT:  
**GENERAL DYNAMICS**  
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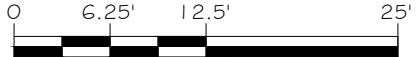
Signature: *James R. Skowronski* Date: 3/18/2020

1	3/18/20	REVISED CD's
MARK	DATE	DESCRIPTION
ISSUE	FINAL	DATE ISSUED 03/02/2020
PHASE		

PROJECT TITLE:  
**CHESTER WIG HILL RD**  
**FA ID # 10035231**

PROJECT INFORMATION:  
49 WIG HILL ROAD  
CHESTER, CT 06412

SHEET TITLE:  
**SITE PLAN**



11" x 17" - 1" = 12.5'  
22" x 34" - 1" = 6.25'

PROJECT NUMBER	45811
SHEET NUMBER	A-1

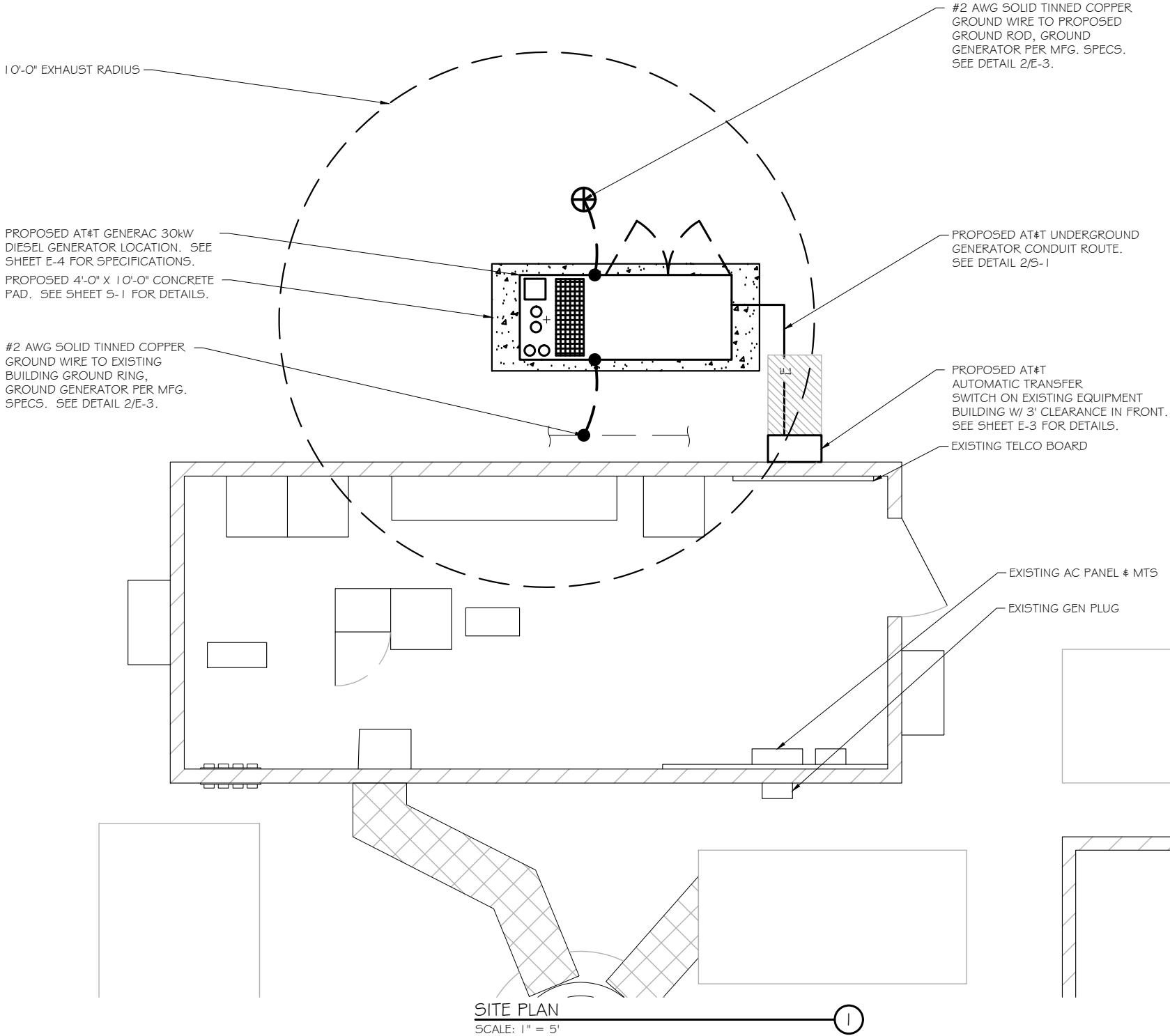
SCOPE OF WORK DETAILS

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

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

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

- H-FRAME:
- 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 THE FORM.



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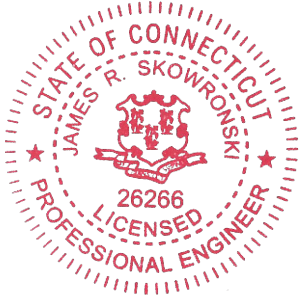
PREPARED FOR:



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

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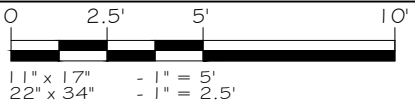
MARK	DATE	DESCRIPTION
ISSUE	FINAL	

DATE ISSUED 03/02/2020

PROJECT TITLE:  
**CHESTER WIG HILL RD**  
**FA ID # 10035231**

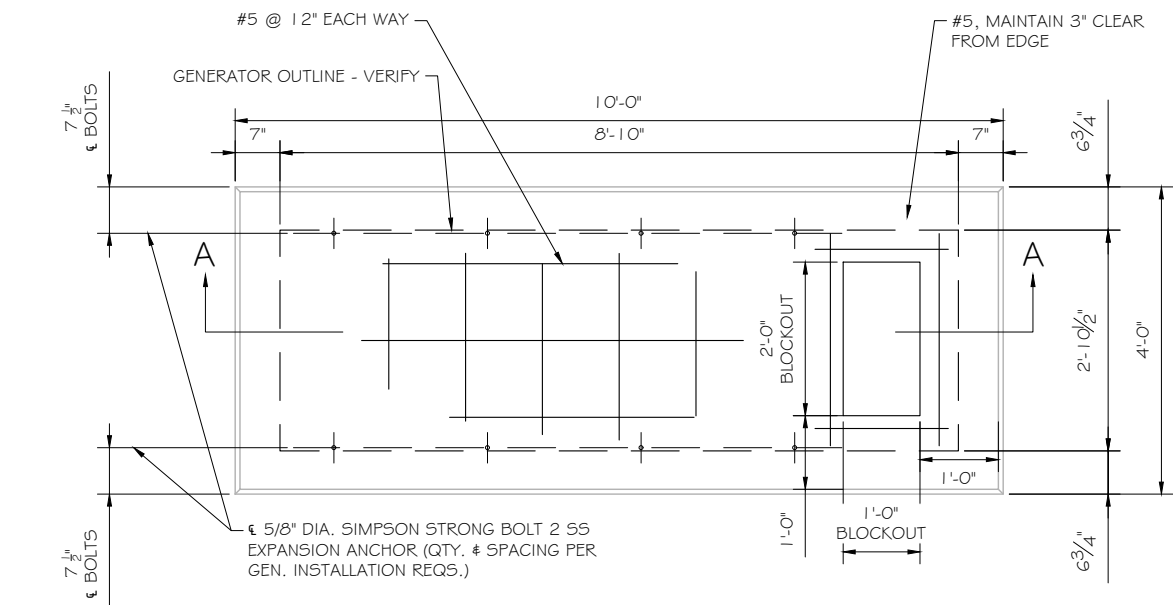
PROJECT INFORMATION:  
49 WIG HILL ROAD  
CHESTER, CT 06412

SHEET TITLE:  
**SITE PLAN & EQUIPMENT LAYOUT**



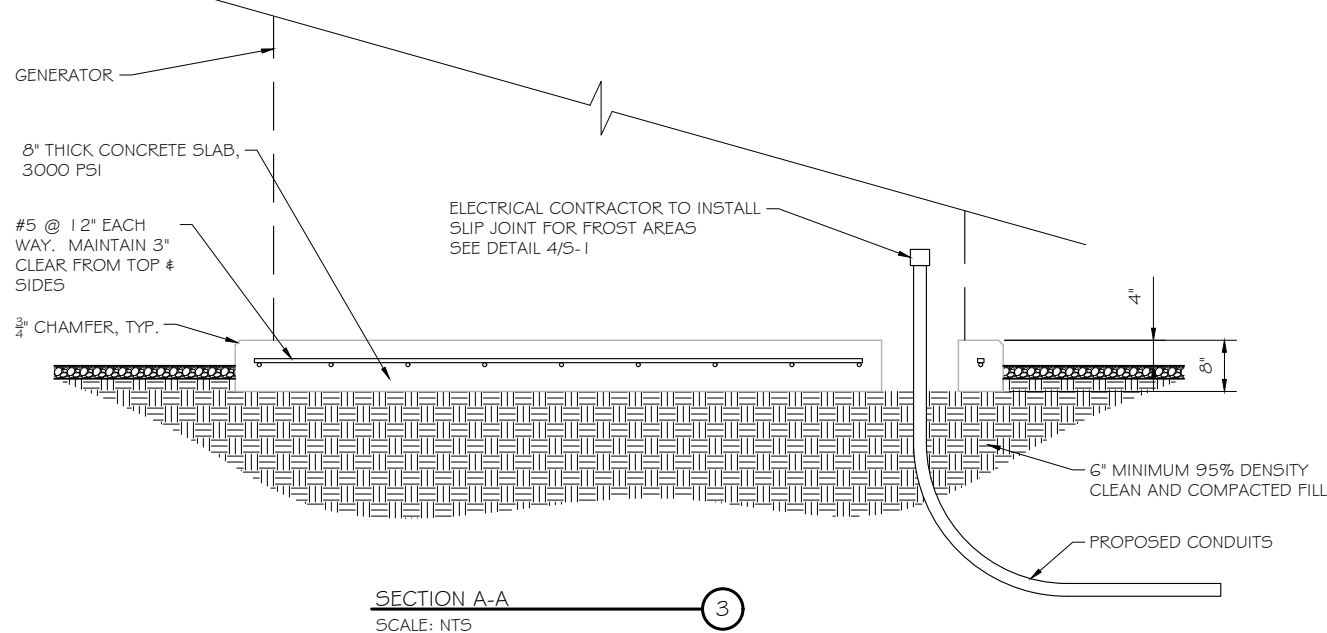
PROJECT NUMBER 45811  
SHEET NUMBER A-2





FOUNDATION PLAN

SCALE: NTS



SECTION A-A

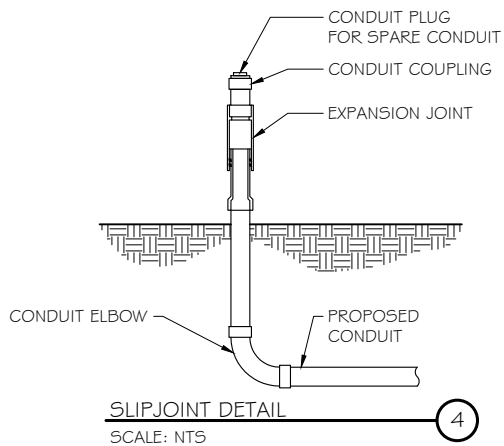
SCALE: NTS

3

## DOUBLE WALL FUEL TANK BASE SPECIFICATION

REF: ATT 30KW GENERATOR PACKAGE  
UL REGISTRATION NUMBER: MH18459  
U.L. 142 DOUBLE WALL FUEL TANK BASE SPECIFICATION  
FUEL TANK BASE CONSTRUCTION:

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



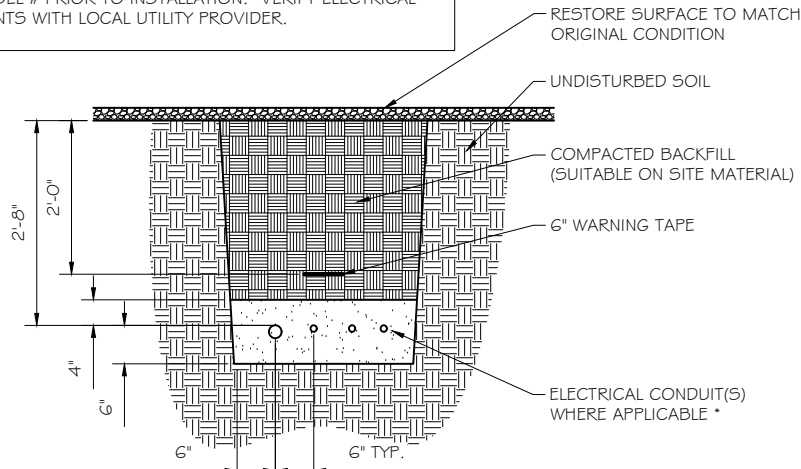
SLIPJOINT DETAIL

SCALE: NTS

4

NOTE:

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



\* SEPARATION DIMENSION TO BE VERIFIED WITH LOCAL UTILITY COMPANY REQUIREMENTS

NOTES:

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

UTILITY CONDUIT TRENCH  
SCALE: NTS

## STRUCTURAL GENERAL NOTES

- GENERAL CONDITIONS
- 1.1 DESIGN & CONSTRUCTION OF ALL WORK SHALL CONFORM TO LOCAL BUILDING CODES, ACI 318-11. IN CASE OF CONFLICT BETWEEN THE CODES, STANDARDS, REGULATIONS, SPECIFICATIONS, GENERAL NOTES AND/OR MANUFACTURER'S REQUIREMENTS, USE THE MOST STRINGENT PROVISIONS.
- 1.2 IT IS THE EXPRESS INTENT OF PARTIES INVOLVED IN THIS PROJECT THAT THE CONTRACTOR OR SUBCONTRACTOR OR INDEPENDENT CONTRACTOR OR THE RESPECTIVE EMPLOYEES SHALL EXCULPATE THE ARCHITECT, THE ENGINEER, TECH. CONSTRUCTION MANAGER, THE OWNER, & THEIR AGENTS FROM ANY LIABILITY WHATSOEVER & HOLD THEM HARMLESS AGAINST LOSS, DAMAGES, LIABILITY OR ANY EXPENSE ARISING IN ANY MATTER FROM THE WRONGFUL OR NEGLIGENT ACT, OR FAILURE TO CARRY METHODS, TECHNIQUES OR PROCEDURES OR FAILURE TO CONFORM TO THE STATE SCAFFOLDING ACT IN CONNECTIONS WITH THE WORK.
- 1.3 DO NOT SCALE DRAWINGS
- 1.4 VERIFY ALL EQUIPMENT MOUNTING DIMENSIONS PER MANUFACTURER DRAWINGS
- 1.5 DESIGN LOADS ARE (GENERIC):
- |                                  |                           |
|----------------------------------|---------------------------|
| LIVE LOAD                        | : 100 PSF                 |
| EQUIPMENT SIZE                   | : 889.1" H, 106" W, 38" D |
| WEIGHT WITH WOODEN SHIPPING SKID |                           |
| ENCLOSED GENERATOR               | : 3974 LBS                |
- 2.0 FOR DESIGN & ANALYSIS OF THE FOUNDATION, THE MINIMUM NET SOIL BEARING CAPACITY SHALL BE ASSUMED TO BE 2000 PSF.
- 3.0 CONCRETE
- 3.1 MEET OR EXCEED THE FOLLOWING CODES & STANDARDS:
- |                 |  |
|-----------------|--|
| DESIGN          | : ACI 318-11                             |
| CONSTRUCTION    | : ACI 301                                |
| DETAILING       | : CRSI MANUAL OF STANDARD PRACTICE       |
| REINF. STEEL    | : ASTM A 615 GRADE 60, DEFORMED          |
| MIXING          | : ASTM C 94. READY MIX CONCRETE          |
| AIR ENTRAINMENT | : ACI 318 AND ASTM C-260                 |
| AGGREGATE       | : ASTM C 33 AND C 330 (FOR LIGHT WEIGHT) |
- 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 FROM FOUNDATION & SLAB SUBGRADE & BACKFILL AREAS & THEN BACKFILLED WITH ACCEPTABLE GRANULAR FILL COMPACTED TO 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT (ASTM D 1557).
- 4.3 THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES TO PREVENT ANY WATER, FROST, OR ICE FROM PENETRATING ANY FOOTING OR STRUCTURAL SUBGRADE BEFORE & AFTER PLACING OF CONCRETE, AND UNTIL SUCH CONCRETE HAS FULLY CURED.

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Sauk City, WI • Willmar, MN  
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PREPARED FOR:



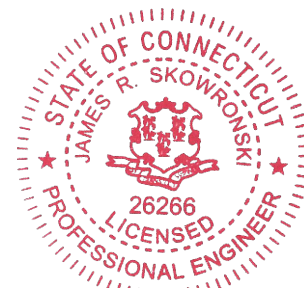
CONSULTANT:

**GENERAL DYNAMICS**  
Information Technology, Inc.

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

Certification & Seal:

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Signature: James R. Stewart Date: 3/18/2020

I	3/18/20	REVISED CD#			
MARK	DATE	DESCRIPTION			
ISSUE PHASE	FINAL		DATE ISSUED	03/02/2020	

PROJECT TITLE

CHESTER WIG HILL RD  
FA ID # 10035231

PROJECT INFORMATION:  
49 WIG HILL ROAD  
CHESTER, CT 06412

SHEET TITLE:

## FOUNDATION DETAILS

SCALE: NONE

PROJECT NUMBER	45811
SHEET NUMBER	S-1

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

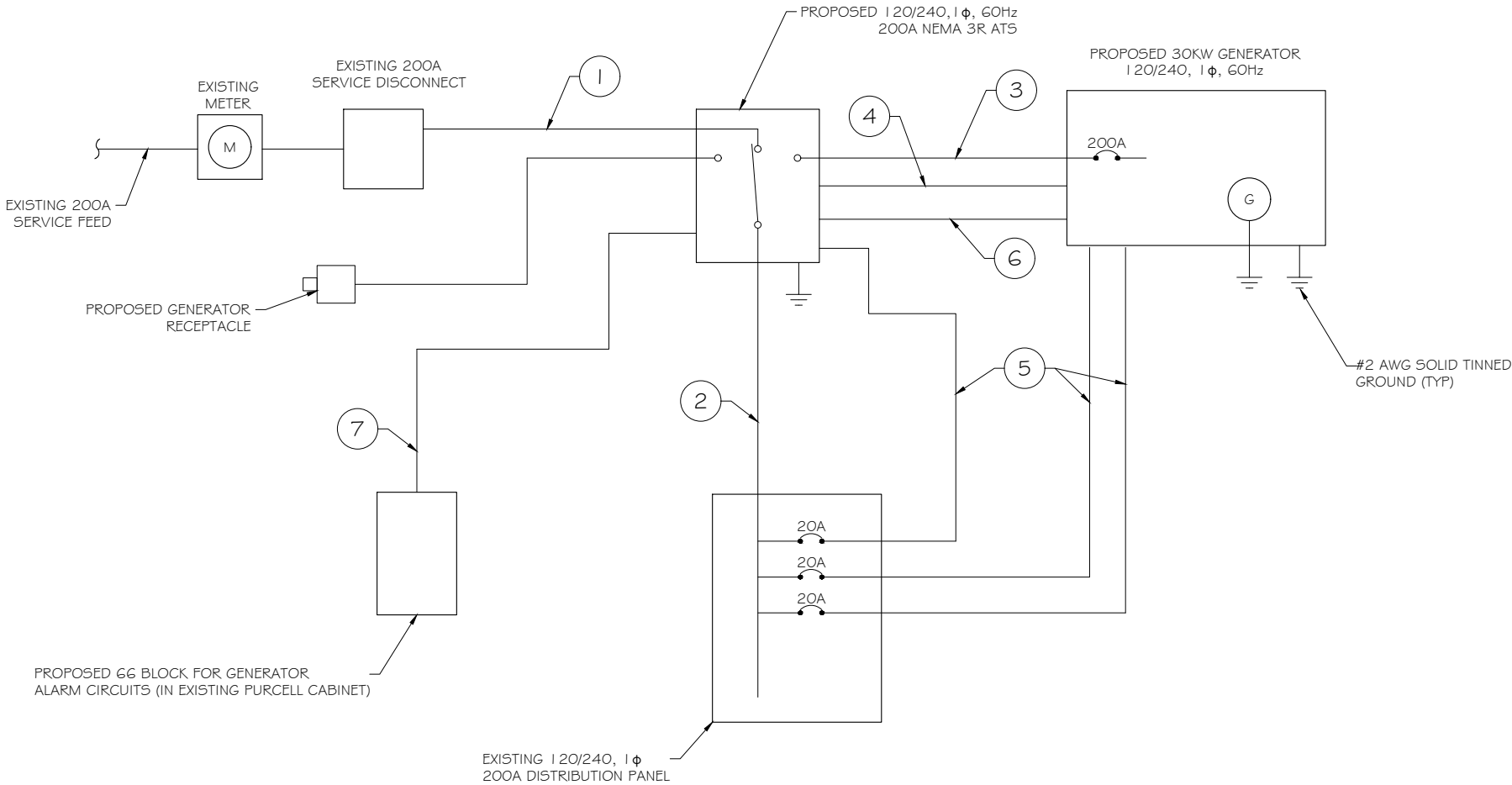
CIRCUIT DETAIL  
SCALE: NTS

1

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

2



PROPOSED WIRING DIAGRAM  
SCALE: NTS

3



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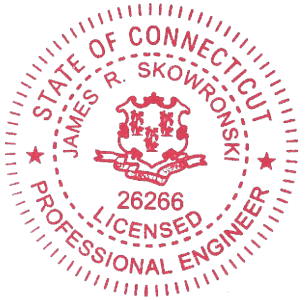
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PREPARED FOR:



CONSULTANT:  
**GENERAL DYNAMICS**  
Information Technology, Inc.  
GENERAL DYNAMICS  
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KING OF PRUSSIA, PA 19406

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



Signature: *James R. Skowronski* Date: 3/18/2020

1	3/18/20	REVISED CD9
MARK	DATE	DESCRIPTION
ISSUE	FINAL	DATE ISSUED 03/02/2020
PROJECT TITLE:		

CHESTER WIG HILL RD  
FA ID # 10035231

PROJECT INFORMATION:  
49 WIG HILL ROAD  
CHESTER, CT 06412

SHEET TITLE:  
  
WIRING DETAILS

SCALE: NONE

PROJECT NUMBER	45811
SHEET NUMBER	E-1

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

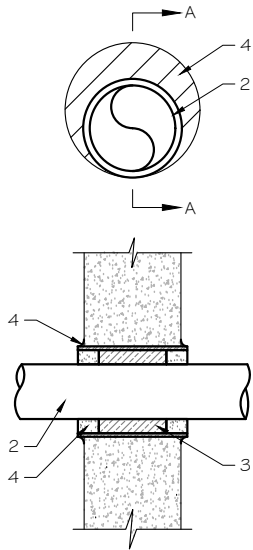
SCOPE OF WORK REQUIRES (3) PROPOSED SINGLE POLE, 20A BREAKERS, ONE EACH FOR CALLOUT NUMBER 5 ON DETAILS 1/E-1 AND 3/E-1. UTILIZE EMPTY OR SPARE SPACES ON EXISTING PANELBOARD IF POSSIBLE.

IF SUFFICIENT SPACES ARE NOT PRESENT IN MAIN PANEL, PROVIDE NEW SUBPANEL FED WITH NEW TWO-POLE, 100A BREAKER IN MAIN PANELBOARD. RELOCATE EXISTING CIRCUITS TO SUBPANEL WHERE REQUIRED. SQUARE D QO LOAD CENTER RECOMMENDED AS NECESSARY.

EXISTING PANEL SCHEDULE

SCALE: NTS

1



- NOTE:
- 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 = 0 HR

- FLOOR OR WALL ASSEMBLY : MINIMUM 4- 1/2" THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS\*. MAX DIAMETER OF OPENING IS 4". SEE CONCRETE BLOCKS (9CATZ) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
- THROUGH PENETRATIONS : ONE METALLIC PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE ANNULAR SPACE SHALL BE MINIMUM 0". (POINT CONTACT) TO MAXIMUM 1-3/8". THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR CONDUITS MAY BE USED:  
A. STEEL PIPE-NOMINAL 6" DIAMETER (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL PIPE.  
B. IRON PIPE-NOMINAL 6" DIAMETER (OR SMALLER) CAST OR DUCTILE IRON PIPE.  
C. CONDUIT - NOMINAL 4" DIAMETER (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR NOMINAL 3-1/2" DIAMETER (OR SMALLER) STEEL CONDUIT.
- PACKING MATERIAL: MINIMUM 6" THICKNESS OF MIN 4.0 PCF MINERAL WOOL BATTING INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
- FILL, VOID, OR CAVITY MATERIAL\*: SEALANT: MINIMUM 1/4" THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR AND WITH BOTH SURFACES OF WALL. AT THE POINT CONTACT LOCATION BETWEEN PIPE AND CONCRETE, A MINIMUM 1/2" DIAMETER BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE CONCRETE/PIPE INTERFACE ON THE TOP SURFACE OF FLOOR AND ON BOTH SURFACES OF WALL. W RATING APPLIES ONLY WHEN CP6015 OR CP604 SEALANT IS USED.


HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. : CP6015, CP604, CP606, OR FS-ONE SEALANT.


\* BEARING THE UL CLASSIFICATION MARK


OUTER WALL PENETRATION DETAIL  
(IF APPLICABLE)


SCALE: NTS


2


  
Type GR  
CABLE TAP TO TOP OF GROUND ROD


  
Type GT  
THROUGH CABLE TO TOP OF GROUND ROD.


  
Type GY  
THROUGH CABLE TO SIDE OF GROUND ROD


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

  
Type TA  
TEE OF HORIZONTAL RUN AND TAP CABLES.

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

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

  
Type VV  
THROUGH VERTICAL CABLE TO VERTICAL STEEL SURFACE OR TO THE SIDE OF EITHER HORIZONTAL OR VERTICAL PIPE

  
Type GR  
CABLE TAP TO TOP OF 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

CADWELD DETAILS

SCALE: NTS

3



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PREPARED FOR:





CONSULTANT:

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Information Technology, Inc.

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Signature:  Date: 3/18/2020

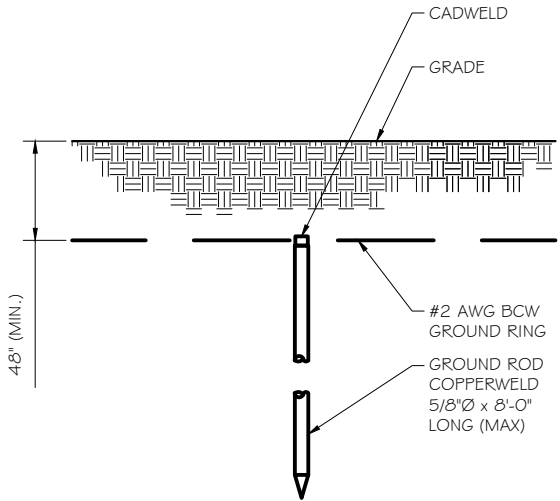
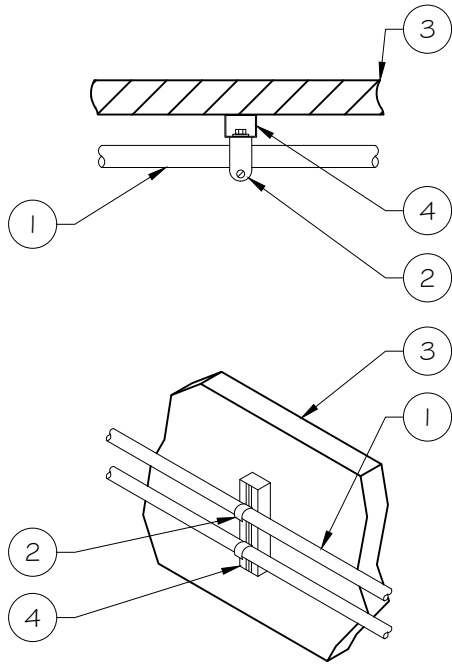
1	3/18/20	REVISED CD's	
MARK	DATE	DESCRIPTION	
ISSUE	FINAL	DATE ISSUED	03/02/2020
PHASE			
PROJECT TITLE:			
CHESTER WIG HILL RD FA ID # 10035231			
PROJECT INFORMATION: 49 WIG HILL ROAD CHESTER, CT 06412			
SHEET TITLE:			
PANEL AND PENETRATION DETAILS			
SCALE: NONE			
PROJECT NUMBER	45811		
SHEET NUMBER	E-2		



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

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

CONDUIT WALL MOUNT  
SCALE: NTS

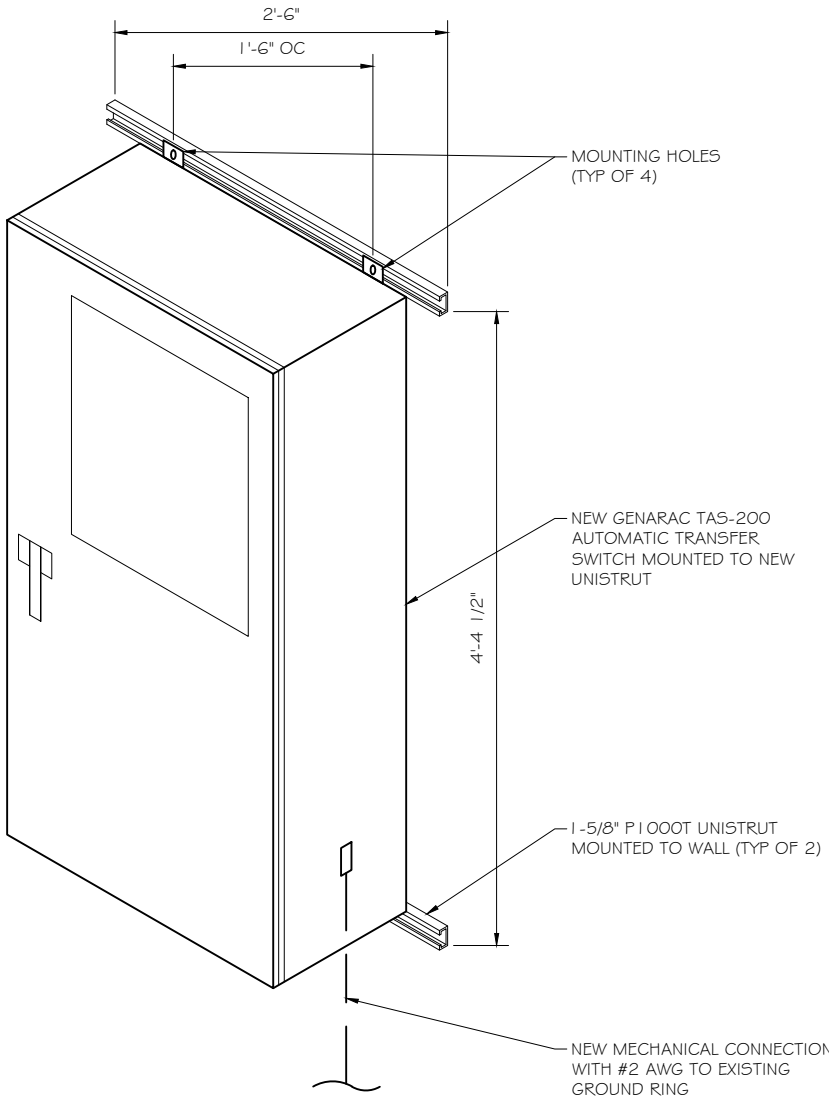


GROUND ROD DETAIL  
SCALE: NTS

- NOTE:
- GROUND RODS MAY BE:
    - COPPER CLAD STEEL
    - SOLID COPPER
  - GROUND RODS SHALL HAVE A MAXIMUM SPACING TWICE THE LENGTH OF ROD
  - SEE RESISTIVITY REPORT FOR VERIFICATION AS AVAILABLE
  - A LARGER CONDUCTOR SHALL BE REQUIRED IN AREAS HIGHLY PRONE TO LIGHTNING AND/OR AREAS WITH HIGHLY ACIDIC SOIL
  - GROUND RODS INSTALLED WITHIN CLOSE PROXIMITY TO TOWER OR WHEN SOIL IS AT OR BELOW 2,000 OHM-CM, SHALL BE GALVANIZED TO PREVENT GALVANIC CORROSION OF TOWER, (SEE ANSI/TIA-EIA-222-G)
  - PROVIDE (1) GROUND LEAD TO EACH SIDE OF THE GENERATOR

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

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



GENERAC ATS MOUNTING DETAIL  
SCALE: NTS



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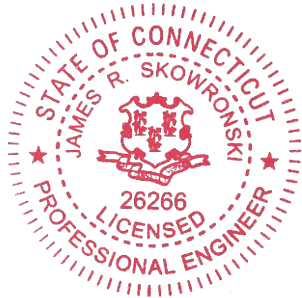
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PREPARED FOR:



CONSULTANT:  
**GENERAL DYNAMICS**  
Information Technology, Inc.  
GENERAL DYNAMICS  
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KING OF PRUSSIA, PA 19406

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Signature: *James R. Skowronski* Date: 3/18/2020


1	3/18/20	REVISED CD's
MARK	DATE	DESCRIPTION
ISSUE	FINAL	DATE ISSUED 03/02/2020
PHASE		

PROJECT TITLE:  
**CHESTER WIG HILL RD**  
**FA ID # 10035231**

PROJECT INFORMATION:  
49 WIG HILL ROAD  
CHESTER, CT 06412

SHEET TITLE:  
**ATS, CONDUIT & GROUND ROD**  
**DETAILS**

SCALE: NONE

PROJECT NUMBER	45811
SHEET NUMBER	E-3





SD030 | 2.2L | 30 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

CONFIGURABLE OPTIONS

ENGINE SYSTEM

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

FUEL SYSTEM

- NPT Flexible Fuel Line

ELECTRICAL SYSTEM

- 10A UL Listed Battery Charger
- Battery Warmer

ALTERNATOR SYSTEM

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

GENERATOR SET

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

ENGINEERED OPTIONS

ENGINE SYSTEM

- Coolant Heater Isolation Ball Valves
- Fluid Containment Pan

CONTROL SYSTEM

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

CIRCUIT BREAKER OPTIONS

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

ENCLOSURE

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

WARRANTY (Standby Gensets Only)

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

ALTERNATOR SYSTEM

- 3rd Breaker System

GENERATOR SET

- Special Testing



CONTROL SYSTEM

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

FUEL TANKS (Size On Last Page)

- 8 in (203.2 mm) Fill Extension
- 13 in (330.2 mm) Fill Extension
- 19 in (482.6 mm) Fill Extension
- Overfill Protection Valve
- 5 Gallon Spill Box Return Hose
- 5 Gallon Spill Box
- Tank Risers
- Fuel Level Switch and Alarm
- 12" Vent System
- Fire Rated Stainless Steel Fuel Hose

FUEL TANKS

- 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

General	
Make	Perkins
EPA Emissions Compliance	Stationary Emergency
EPA Emissions Reference	See Emission Data Sheet
Cylinder #	4
Type	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 Capacity - qt (L)	11.2 (10.6)

Cooling System

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

Fuel System

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

Engine Electrical System

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

ALTERNATOR SPECIFICATIONS

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

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



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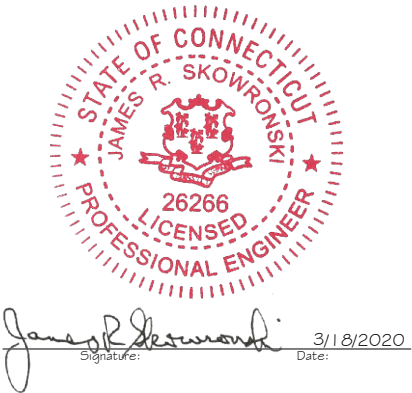


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1	3/18/20	REVISED CD5
MARK	DATE	DESCRIPTION
ISSUE	FINAL	DATE ISSUED 03/02/2020
PHASE		

PROJECT TITLE:  CHESTER WIG HILL RD FA ID # 10035231	
PROJECT INFORMATION: 49 WIG HILL ROAD CHESTER, CT 06412	
SHEET TITLE:  GENERAC 30KW GENERATOR SPECIFICATIONS	
SCALE: NONE	
PROJECT NUMBER	45811
SHEET NUMBER	E-4.1

SPEC SHEET

3 of 6

SPEC SHEET

4 of 6



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SD030 | 2.2L | 30 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency



OPERATING DATA

POWER RATINGS

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

MOTOR STARTING CAPABILITIES (skVA)

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

FUEL CONSUMPTION RATES\*

Fuel Pump Lift- ft (m)	Diesel - gph (Lph)	
	Percent Load	Standby
3 (1)	25%	1.0 (3.7)
	50%	1.4 (5.2)
	75%	2.0 (7.5)
Total Fuel Pump Flow (Combustion + Return) - gph (Lph)	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 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

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

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

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

EXHAUST

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

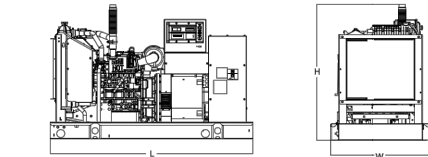
SD030 | 2.2L | 30 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

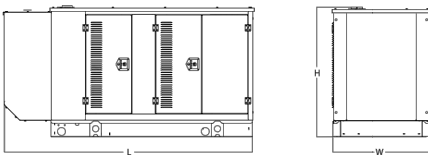


DIMENSIONS AND WEIGHTS\*



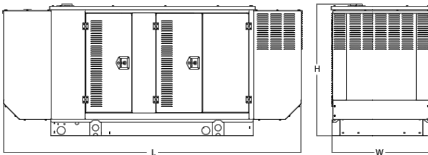
OPEN SET (Includes Exhaust Flex)

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



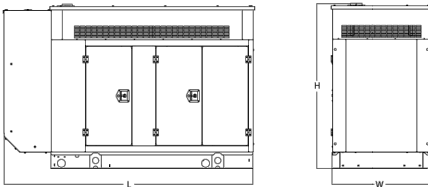
WEATHER PROTECTED ENCLOSURE

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



LEVEL 1 ACOUSTIC ENCLOSURE

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



LEVEL 2 ACOUSTIC ENCLOSURE

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

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

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

GENERAC 30KW GENERATOR SPECIFICATIONS

SCALE: NTS





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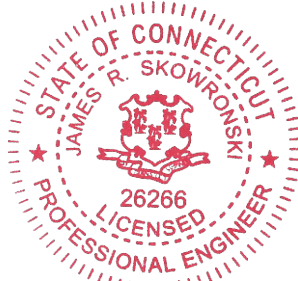
PREPARED FOR:



CONSULTANT:

**GENERAL DYNAMICS**  
Information Technology, Inc.  
GENERAL DYNAMICS  
661 MOORE RD STE 110  
KING OF PRUSSIA, PA 19406

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



Signature: *James R. Skowronski* Date: 3/18/2020

1	3/18/20	REVISED CD5
MARK	DATE	DESCRIPTION
ISSUE PHASE	FINAL	DATE ISSUED 03/02/2020

PROJECT TITLE:  
CHESTER WIG HILL RD  
FA ID # 10035231

PROJECT INFORMATION:  
49 WIG HILL ROAD  
CHESTER, CT 06412

SHEET TITLE:  
GENERAC 30KW GENERATOR SPECIFICATIONS

SCALE: NONE

PROJECT NUMBER 45811  
SHEET NUMBER E-4.2

SPEC SHEET

5 of 6

SPEC SHEET

6 of 6

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TTS Series  
Switches

200 Amps  
600 VAC

GENERAC® | INDUSTRIAL  
POWER

TAS200

200A Automatic Transfer Switch

TAS200

TAS200

1 of 3

2 of 3

The Generac TAS200 Automatic Transfer Switch

Flexibility for multiple application installations

Multiple generator support with 3 source panel

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

Camlock functionality for mobile generator sources



Image used for illustration purposes only.

Features

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

Optional Features

- EXTENDED WARRANTY
- THREE-PHASE VOLTAGE CONFIGURATIONS

Codes and Standards

Generac products are designed to the following standards:



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



NEC 700, 701 and 702



NEMA 250

Application and Engineering Data

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

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

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



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PREPARED FOR:



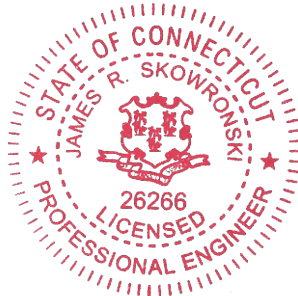
CONSULTANT:

**GENERAL DYNAMICS**  
Information Technology, Inc.

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

Certification & Seal:

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



Signature: *James R. Skowronski* Date: 3/18/2020


1	3/18/20	REVISED CD's
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MARK	DATE	DESCRIPTION
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ISSUE	FINAL	DATE	03/02/2020
PHASE		ISSUED	

PROJECT TITLE:

CHESTER WIG HILL RD  
FA ID # 10035231

PROJECT INFORMATION:  
49 WIG HILL ROAD  
CHESTER, CT 06412

SHEET TITLE:

GENERAC ATS SPECIFICATIONS

SCALE: NONE

PROJECT NUMBER	45811
SHEET NUMBER	E-5



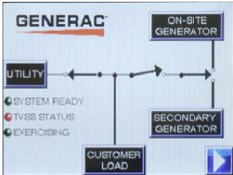


TTS Control Systems

TAS200

3 of 3

Touch Screen Interface



INDICATORS AND BUTTONS

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

DETAILS SCREEN

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




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PREPARED FOR:



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*James R. Skowronski*  
Signature: \_\_\_\_\_ Date: 3/18/2020

1	3/18/20	REVISED CD5
MARK	DATE	DESCRIPTION
ISSUE	FINAL	DATE ISSUED 03/02/2020
PROJECT TITLE:  CHESTER WIG HILL RD FA ID # 10035231		
PROJECT INFORMATION: 49 WIG HILL ROAD CHESTER, CT 06412		
SHEET TITLE:  GENERAC ATS SPECIFICATIONS		
SCALE: NONE		
PROJECT NUMBER	45811	
SHEET NUMBER	E-5.1	

The Assessor's office is responsible for the maintenance of records on the ownership of properties. Assessments are computed at 70% of the estimated market value of real property at the time of the last revaluation which was 2018.



Information on the Property Records for the Municipality of Chester was last updated on 3/12/2020.

### Parcel Information

Location:	WIG HILL RD	Property Use:	Vacant Land	Primary Use:	Commercial Vacant Land
Unique ID:	99000300	Map Lot:	8/127-1	Acres:	6.77
490 Acres:		Zone:	C	Volume / Page:	166/ 79
Developers Map / Lot:		Census:			

### Value Information

	Appraised Value	Assessed Value
--	-----------------	----------------

	Appraised Value	Assessed Value
Land	864,394	605,080
Buildings	0	0
Detached Outbuildings	312,200	218,540
Total	1,176,594	823,620

Owner's Information

Owner's Data
NEGRELLI HAZEL C TRUSTEE PO BOX 1175 TRURO, MA 02666

Detached Outbuildings

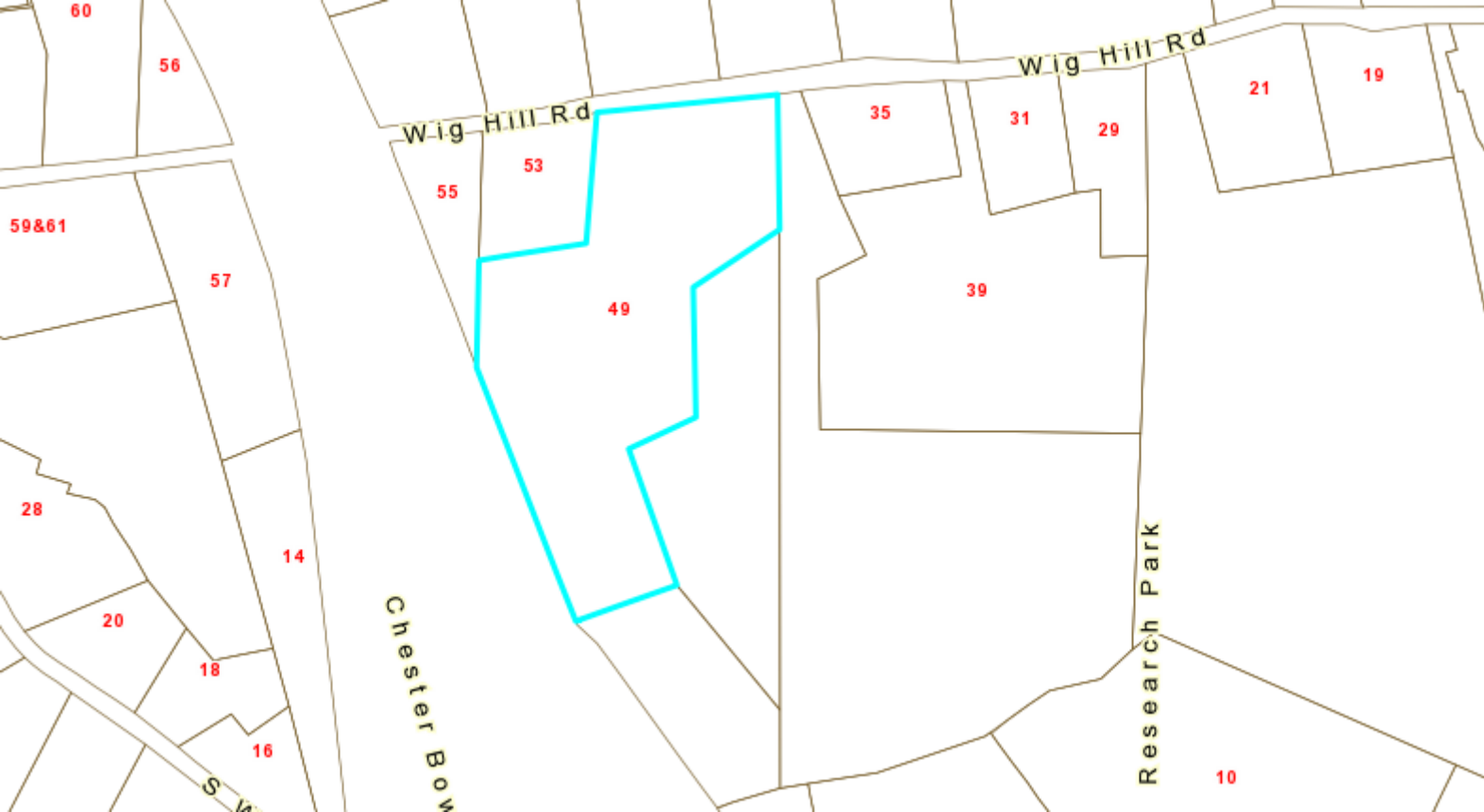
Type:	Year Built:	Length:	Width:	Area:
Fencing	1990			500
Towers	1990			1
Building Utility	1990			300
Building Utility	1990			300
Building Utility	1990			300

Owner History - Sales

Owner Name	Volume	Page	Sale Date	Deed Type	Valid Sale	Sale Price
NEGRELLI HAZEL C TRUSTEE	0166	0079	06/08/2016	Quit Claim	No	\$0
NEGRELLI HAZEL C	0166	0045	05/27/2016	Certificate of Devise	No	\$0
RAYNER BRUCE A EST	0163	0071	03/16/2015	Fiduciary Deed	No	\$0
RAYNER MARY C EST	0163	0070	03/16/2015	Fiduciary Deed	No	\$0
RAYNER BRUCE A & MARY C	0159	0710	09/30/2013	Warranty Deed	No	\$0

Information Published With Permission From The Assessor





# ATTACHMENT 2



## CONNECTICUT SITING COUNCIL

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Melanie Bachman,  
Executive Director

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**DOCKET NO. 181** - Cellco Partnership d/b/a Bell Atlantic Mobile application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance, and operation of a cellular telecommunications tower and associated equipment located at 8 Inspiration Lane, or 49 Wig Hill Road in the Town of Chester, Connecticut

**Connecticut Siting Council**

May 13, 1998

**Decision and Order**

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council (Council) finds that the effects associated with the construction, operation, and maintenance of a telecommunications facility at the proposed alternate site in Chester, Connecticut, including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forests and parks; air and water purity; and fish and wildlife are not disproportionate either alone or cumulatively with other effects when compared to need, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application and therefore directs that a Certificate of Environmental Compatibility and Public Need, as provided by General Statutes § 16-50k, be issued to Bell Atlantic Mobile (BAM) for the construction, operation, and maintenance of a telecommunications tower, associated equipment, and buildings at the proposed alternate site, on an approximately 18 acre site at 49 Wig Hill Road in the Town of Chester, Connecticut. We deny certification of the proposed prime site, without prejudice, due to the potential effects to the environment associated with the construction of additional future towers that would be required to provide adequate coverage for all carriers along Route 9, with a tower configuration using the proposed prime site.

The facility shall be constructed, operated, and maintained substantially as specified in the Council's record in this matter, and subject to the following conditions:

1. The tower shall be constructed as a monopole, no taller than necessary to provide the proposed telecommunications services, sufficient to accommodate the antennas of BAM, Springwich Cellular Limited Partnership (Springwich), Sprint Spectrum L. P. (Sprint), Nextel Communications of the Mid-Atlantic, Inc. (Nextel); and other entities, both public and private, but such tower shall not exceed a height of 150 feet above ground level (AGL).
2. The Certificate Holder shall prepare a Development and Management (D&M) Plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of Connecticut State Agencies. The D&M Plan shall be submitted to and approved by the Council prior to the commencement of facility construction and shall include: a final site plan(s) for site development to include the location and specifications for the tower foundation, antennas, equipment buildings, emergency generator and fuel tank, security fence, access road, and utility line; construction plans for site clearing, tree trimming, water drainage, and erosion and sedimentation controls consistent with the Connecticut Guidelines for Soil Erosion and Sediment Control, as amended; provisions for the tower finish that may include painting; and provisions for the prevention and containment of spills and/or other discharge into surface water and groundwater bodies.
3. Upon the establishment of any new State or federal radio frequency standards applicable to frequencies of this facility, the facility granted herein shall be brought into compliance with such standards.
4. The Certificate Holder shall provide the Council a recalculated report of electromagnetic radio frequency power density if and when circumstances in operation cause a change in power density above the levels originally calculated and provided in the application.
5. The Certificate Holder shall permit public or private entities to share space on the proposed tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing.
6. If the facility does not initially provide, or permanently ceases to provide cellular services following completion of construction, this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made.
7. Any antenna that becomes obsolete and ceases to function shall be removed within 60 days after such antennas become obsolete and ceases to function.
8. Unless otherwise approved by the Council, this Decision and Order shall be void if all construction authorized herein is not completed within three years of the effective date of this Decision and Order or within three years after all appeals to this Decision and Order have been resolved.

Pursuant to General Statutes § 16-50p, we hereby direct that a copy of the Findings of Fact, Opinion, and Decision and Order be served on each person listed below, and notice of issuance shall be published in The Hartford Courant.

By this Decision and Order, the Council disposes of the legal rights, duties, and privileges of each party named or admitted to the proceeding in accordance with Section 16-50j-17 of the Regulations of Connecticut State Agencies.

The parties and intervenors to this proceeding are:

APPLICANT ITS REPRESENTATIVE

Bell Atlantic Mobile

Kenneth C. Baldwin, Esq.

Brian C. S. Freeman, Esq.

Robinson & Cole

One Commercial Plaza

Hartford, CT 06103-3597

Mr. David S. Malko, P.E.

Jennifer Young Gaudet

Bell Atlantic Mobile

20 Alexander Drive

Wallingford, CT 06492

INTERVENORS ITS REPRESENTATIVE

Springwich Cellular Limited Partnership

Peter J. Tyrrell, Esq.

General Counsel

500 Enterprise Drive

Rocky Hill, CT 06067-3900

Nextel Communications of the Mid-Atlantic, Inc. d/b/a Nextel Communications

Christopher B. Fisher, Esq.

Cuddy, Feder & Worby, Esq.

90 Maple Avenue

White Plains, NY 10601

Sprint Spectrum, L.P. d/b/a Sprint PCS

Elias A. Alexiades

Julie M. Cashin

Hurwitz and Sagarin, P.C.

147 North Broad Street

Milford, CT 06460

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Ten Franklin Square New Britain, CT 06051 / 860- 827-2935

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# ATTACHMENT 3

CERTIFICATION

I hereby certify that on the 25th 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.

A handwritten signature in blue ink that reads "Lucia Chiochio". The signature is written in a cursive style with a small dash above the 'i' in "Chiochio".

Dated: March 25, 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)