

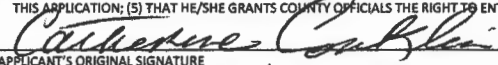
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PERMIT NUMBER: B

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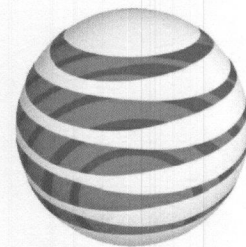
DATE ACCEPTED:

DEC 18 2020

COMMERCIAL BUILDING PERMIT APPLICATION		LICENSES & PERMITS DIVISION	
HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES, AND PERMITS 3430 COURT HOUSE DRIVE, ELLICOTT CITY, MD 21043 - PHONE: (410) 313-2455 OPTION #4 www.howardcountymd.gov			
BUILDING SITE ADDRESS REQUIRED			
Street Address: 41910 Carroll Mill Road 12015 Transco Rd.		Unit:	
City: Ellicott City		State: MD	Zip Code: 21042
Subdivision/Village/Complex Name: 0000		SDP/WP/BA #:	
Lot:	Tax Map: 0023	Parcel: 0090	Grading Permit #:
DESCRIPTION OF WORK REQUIRED			
Existing Use: Telecommunications		Proposed Use: Telecommunications	
Trade Work to Be Completed (Separate Permits Required):		Estimated Cost: \$13,000	
<input type="checkbox"/> Mechanical (HVACR) <input checked="" type="checkbox"/> Electrical <input type="checkbox"/> Plumbing <input type="checkbox"/> None			
AT&T to add an emergency self-contained 30kw diesel generator and 4'x10' concrete pad within the existing AT&T area			
PROPERTY OWNER INFORMATION REQUIRED			
Owner(s) Name(s) (As it appears on tax records): Transcontinental Gas Pipe Line			
Owner's Street Address: PO Box 2400			
City: Tulsa		State: OK	Zip Code: 74102
Phone: (918) 382-7200		Email:	
TENANT INFORMATION REQUIRED			
Business Name: Crown Castle		Contact Name:	
Street Address: 2000 Corporate Drive, 11th Floor			
City: Canonsburg		State: PA	Zip Code: 21042
Phone: (804) 523-8308		Email: Crowncastle.com	
APPLICANT NAME REQUIRED - INDIVIDUAL WHO SIGNS THIS APPLICATION			
Business Name: General Dynamics / AT&T		Contact Name: Catherine Conklin	
Street Address: 4603 Kemper Street			
City: Rockville		State: MD	Zip Code: 20853
Phone: (301) 266-0258		Email: catherine.conklin@gdit.com	
CONTRACTOR INFORMATION REQUIRED			
Business Name: Atlantic Power & Light			
Licensee's Name:		License #:	
Street Address: 9717 Pulaski Highway			
City: Baltimore		State: MD	Zip Code: 21220
Phone: (443) 231-5309		Email: kpeddicord@atlanticpandl.com	
ARCHITECT/ENGINEER INFORMATION REQUIRED - INDIVIDUAL WHO SIGNED PLANS			
Business Name: Ramaker		Name: Michael L. Pinske	
Street Address: 855 Community Drive			
City: Sauk City		State: WI	Zip Code: 53583
Phone: (608) 643-4100		Email: ramaker.com	
BUILDING CHARACTERISTICS (PLEASE SELECT/COMPLETE ALL THAT APPLY)			
Utilities: <input checked="" type="checkbox"/> Electric <input type="checkbox"/> Gas <input type="checkbox"/> Water Supply: <input type="checkbox"/> Public <input checked="" type="checkbox"/> Private (Well)		Sewage Disposal: <input type="checkbox"/> Public <input checked="" type="checkbox"/> Private (Septic)	
Heating System: <input type="checkbox"/> Electric <input type="checkbox"/> Natural Gas <input type="checkbox"/> Propane <input type="checkbox"/> Other:		Roadside Tree Project: <input type="checkbox"/> No <input type="checkbox"/> Yes:#	
Sprinkler System: <input type="checkbox"/> NFPA 13 <input type="checkbox"/> NFPA 13R <input type="checkbox"/> None		Fire Alarm System: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Voice Evac	
ADDITIONAL COMMERCIAL INFORMATION (PLEASE SELECT/COMPLETE ALL THAT APPLY)			
Area of Construction: 40 sq ft		Gross Area: sq ft	Height: ft # of Stories:
Construction Classification(s): U		Use Group: IIB	
Was the tenant space previously occupied? <input type="checkbox"/> Yes <input type="checkbox"/> No		Shell Building Permit # (for interior completions):	
ADDITIONAL MULTI-FAMILY INFORMATION IF APPLICABLE			
# of efficiency units (MF):		# of 1 BR (MF):	# of 2 BR (MF): # of 3 BR (MF):
Energy Method: <input type="checkbox"/> Performance <input type="checkbox"/> UA Alternative <input type="checkbox"/> ERI <input type="checkbox"/> A 90.1		Gross Area: sq ft	Occupiable Area: sq ft
AGREEMENT/ DISCALIMER REQUIRED			
THE UNDERSIGNED HEREBY CERTIFIES AND AGREES AS FOLLOWS: (1) THAT HE/SHE IS AUTHORIZED TO MAKE THIS APPLICATION; (2) THAT THE INFORMATION IS CORRECT; (3) THAT HE/SHE WILL COMPLY WITH ALL REGULATIONS OF HOWARD COUNTY WHICH ARE APPLICABLE THERETO; (4) THAT HE/SHE WILL PERFORM NO WORK ON THE ABOVE REFERENCED PROPERTY NOT SPECIFICALLY DESCRIBED IN THIS APPLICATION; (5) THAT HE/SHE GRANTS COUNTY OFFICIALS THE RIGHT TO ENTER ONTO THIS PROPERTY FOR THE PURPOSE OF INSPECTING THE WORK PERMITTED AND POSTING NOTICES			
 APPLICANT'S ORIGINAL SIGNATURE		DATE SIGNED	
FOR OFFICE USE ONLY			
CHECKS PAYABLE TO: DIRECTOR OF FINANCE OF HOWARD COUNTY			
AGENCIES REQUIRED/APPROVALS:			
<input checked="" type="checkbox"/> PR	<input checked="" type="checkbox"/> DPZ	<input checked="" type="checkbox"/> DED	<input checked="" type="checkbox"/> Health <input type="checkbox"/> SHA <input type="checkbox"/> CID
SUBMITTAL FEES:		PAYMENT: KNOWE SUB.	ACCEPTED BY: PEDEX

Search Result for HOWARD COUNTY

1. This screen allows you to search the Real Property database and display property records.



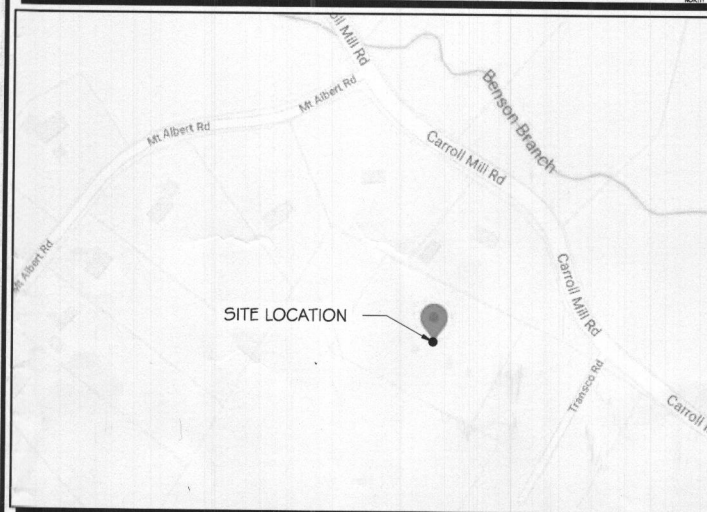
at&t Mobility

SITE NAME: MOUNT ALBERT
FA LOCATION CODE: 10072222
CROWN BUN: 806015

GENERATOR PROJECT
30KW GENERAC DIESEL GENERATOR
200A GENERAC ATS

11910 CARROLL MILL ROAD
ELLIOTT CITY, MD 21042

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 MARYLAND

MISS UTILITY OF MARYLAND
WEST OF CHESAPEAKE BAY 811 OR 1-800-257-7777
MISS UTILITY OF DELMARVA
EAST OF CHESAPEAKE BAY 811 OR 1-800-282-8555

REQUIRES MIN. 3 WORK 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 2018
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

ENGINEER:

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

APPLICANT INFORMATION:

AT&T MOBILITY
7150 STANDARD DR
HANOVER, MD 21076

SITE DATA:

SITE NAME: MOUNT ALBERT
FA NUMBER: 10072222

PROPERTY OWNER:

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

ADDRESS:

11910 CARROLL MILL ROAD
ELLIOTT CITY, MD 21042

COUNTY:

HOWARD

LAT.: 39.267176°
LONG.: -76.931937°

GROUND ELEVATION: 443 FT AMSL

DO NOT SCALE DRAWINGS:

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

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

SHEET INDEX

GENERAL:

T-1 TITLE SHEET

NOTES:

N-1 GENERAL NOTES

SITE:

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

ELECTRICAL & GROUNDING:

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

SIGNATURE BLOCK

AT&T MGR.

DATE

GENERAL DYNAMICS
CONSTRUCTION MGR.

DATE

SITE ACQUISITION

DATE

CONSULTANT:

GENERAL DYNAMICS
Information Technology, Inc.

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

Certification & Seal:

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly Licensed Professional Engineer under the laws of the State of Maryland.

License No: 37842, Expiration Date: 9/8/2021



1	01/08/21	REVISED PER CLIENT COMMENTS
MARK	DATE	DESCRIPTION
ISSUE	FINAL	DATE ISSUED 12/04/2020

PROJECT TITLE:

MOUNT ALBERT
FA ID # 10072222

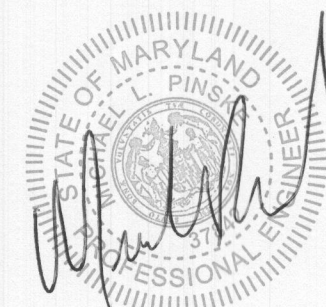
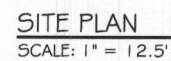
PROJECT INFORMATION:
11910 CARROLL MILL ROAD
ELLIOTT CITY, MD 21042

SHEET TITLE:

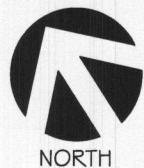
TITLE SHEET

SCALE: NONE

PROJECT NUMBER 48284
SHEET NUMBER T-1



PROJECT NUMBER	48284
SHEET NUMBER	A-1



PREPARED FOR:



CONSULTANT:

GENERAL DYNAMICS
Information Technology, Inc.

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

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ISSUE	FINAL	DATE ISSUED 12/04/2020
PHASE		
PROJECT TITLE:		

MOUNT ALBERT
FA ID # 10072222

PROJECT INFORMATION:
11910 CARROLL MILL ROAD
ELLIOTT CITY, MD 21042

SHEET TITLE:

SITE PLAN & EQUIPMENT LAYOUT

0 1.875' 3.75' 7.5'

11" x 17" - 1" = 3.75'
22" x 34" - 1" = 1.875'

PROJECT NUMBER 48284
SHEET NUMBER A-2

EXISTING OTHER
CARRIER CONCRETE PAD

EXISTING AT&T 13'-0" X 6'-6"
CONCRETE PAD IN A 17'-0" X 7'-0" AREA
10'-0" EXHAUST RADIUS

#2 AWG SOLID TINNED COPPER
GROUND WIRE TO PROPOSED
GROUND ROD, GROUND
GENERATOR PER MFG. SPECS.
SEE DETAIL 2/E-3.

EXISTING
TELCO VAULT

EXISTING PURCELL CABINET

PROPOSED AT&T
AUTOMATIC TRANSFER
SWITCH ON PROPOSED
H-FRAME W/ 3'
CLEARANCE IN FRONT.
SEE SHEET E-3 FOR
DETAILS.

EXISTING BREAKER BOX
ON A 6" X 6" POST

EXISTING
AC PANEL (B)
& MTS

EXISTING CAMLOCK
EXISTING AC PANEL (A)

EXISTING METER &
DISCONNECT

EXISTING
TRANSF.

PROPOSED
ALARM ROUTE

PROPOSED AT&T UNDERGROUND
GENERATOR CONDUIT ROUTE.
SEE DETAIL 2/S-1

PROPOSED AT&T 4'-0" X 10'-0"
CONCRETE PAD. SEE SHEET S-1 FOR
DETAILS.

PROPOSED AT&T GENERAC 30kW
DIESEL GENERATOR AND 190
GALLON DIESEL TANK LOCATION.
SEE SHEET E-4 FOR SPECIFICATIONS.

#2 AWG SOLID TINNED COPPER GROUND
WIRE TO EXISTING FENCE GROUND RING,
GROUND GENERATOR PER MFG. SPECS.
SEE DETAIL 2/E-3.

SCOPE OF WORK DETAILS

GENERAL:

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

CONDUITS:

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

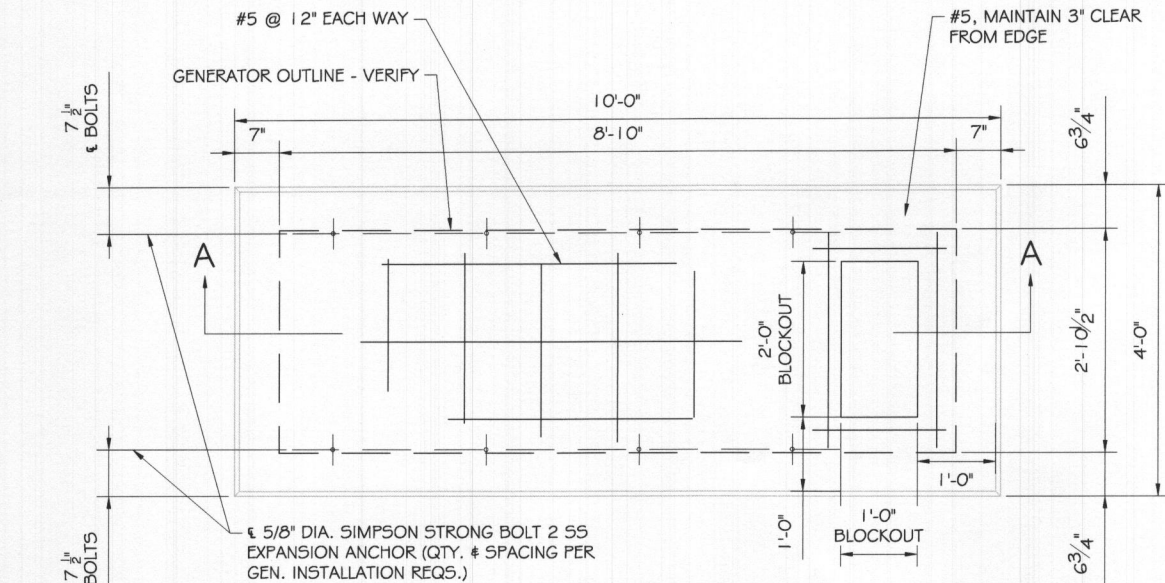
GROUNDING:

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

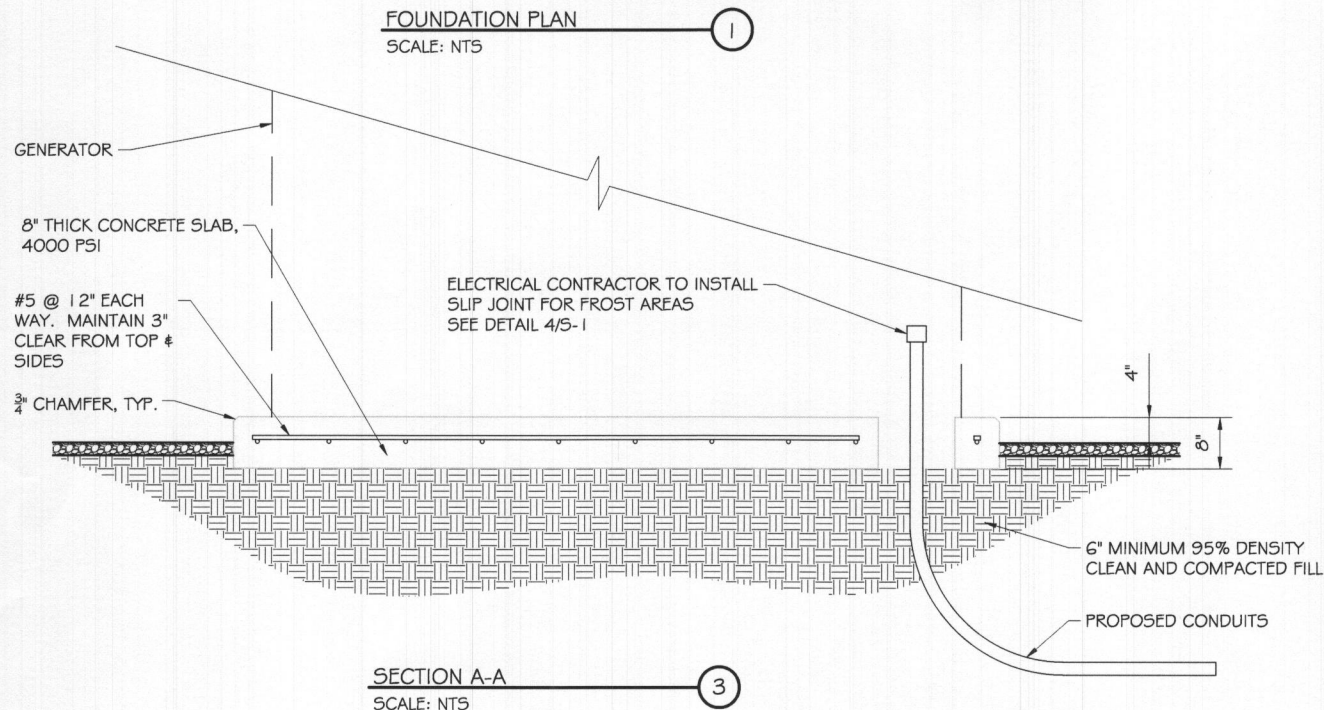
SITE PLAN

SCALE: 1" = 3.75'

1



FOUNDATION PLAN
SCALE: NTS

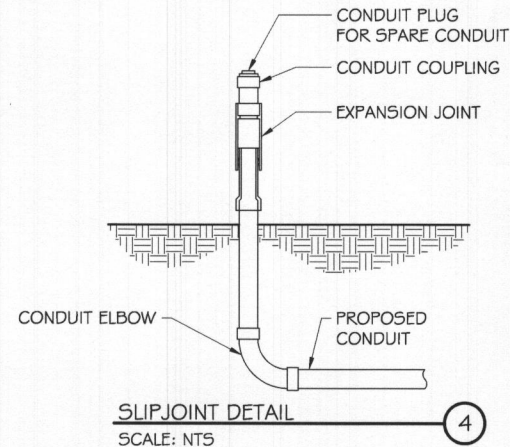


SECTION A-A
SCALE: NTS

DOUBLE WALL FUEL TANK BASE SPECIFICATION

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

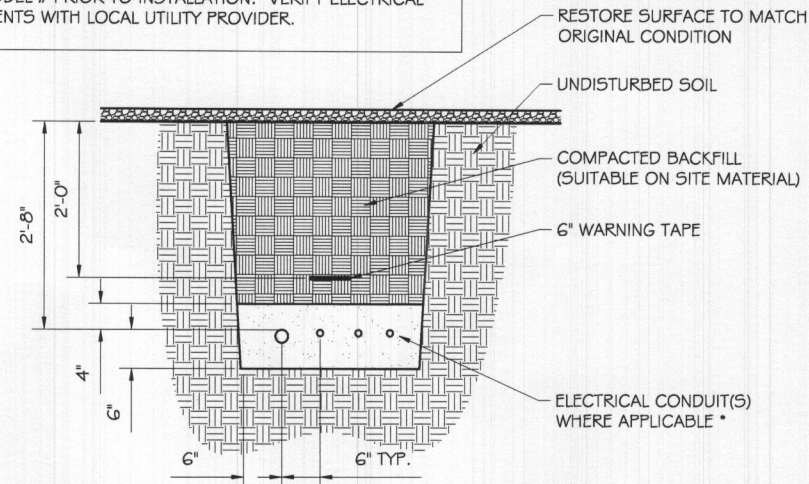
- BE CONSTRUCTED IN ACCORDANCE WITH UNDERWRITERS LABORATORIES STANDARD UL-142. BE CONSTRUCTED IN ACCORDANCE WITH FLAMMABLE & COMBUSTIBLE LIQUIDS CODE, NFPA 30; THE STANDARD FOR INSTALLATION & USE OF STATIONARY COMBUSTIBLE ENGINE & GAS TURBINES, NFPA 37; AND THE STANDARD FOR EMERGENCY & STANDBY POWER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



SLIPJOINT DETAIL
SCALE: NTS

NOTE:

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



* SEPARATION DIMENSION TO BE VERIFIED WITH LOCAL UTILITY COMPANY REQUIREMENTS

NOTES:

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

UTILITY CONDUIT TRENCH
SCALE: NTS

STRUCTURAL GENERAL NOTES

- 1.0 GENERAL CONDITIONS
- 1.1 DESIGN & CONSTRUCTION OF ALL WORK SHALL CONFORM TO LOCAL BUILDING CODES, ACI 318-11. IN CASE OF CONFLICT BETWEEN THE CODES, STANDARDS, REGULATIONS, SPECIFICATIONS, GENERAL NOTES AND/OR MANUFACTURER'S REQUIREMENTS, USE THE MOST STRINGENT PROVISIONS.
- 1.2 IT IS THE EXPRESS INTENT OF PARTIES INVOLVED IN THIS PROJECT THAT THE CONTRACTOR OR SUBCONTRACTOR OR INDEPENDENT CONTRACTOR OR THE RESPECTIVE EMPLOYEES SHALL EXCULPATE THE ARCHITECT, THE ENGINEER, TECH. CONSTRUCTION MANAGER, THE OWNER, & THEIR AGENTS FROM ANY LIABILITY WHATSOEVER & HOLD THEM HARMLESS AGAINST LOSS, DAMAGES, LIABILITY OR ANY EXPENSE ARISING IN ANY MATTER FROM THE WRONGFUL OR NEGLIGENT ACT, OR FAILURE TO CARRY METHODS, TECHNIQUES OR PROCEDURES OR FAILURE TO CONFORM TO THE STATE SCAFFOLDING ACT IN CONNECTIONS WITH THE WORK.
- 1.3 DO NOT SCALE DRAWINGS
- 1.4 VERIFY ALL EQUIPMENT MOUNTING DIMENSIONS PER MANUFACTURER DRAWINGS
- 1.5 DESIGN LOADS ARE (GENERAL):
- | | |
|----------------------------------|---------------------------|
| 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.



RAMAKER

employee-owned

(608) 643-4100 www.ramaker.com

PREPARED FOR:



CONSULTANT:

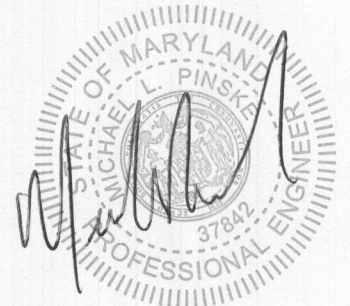
GENERAL DYNAMICS
Information Technology, Inc.

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

Certification & Seal:

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License No: 37842, Expiration Date: 9/8/2021



I	01/08/21	REVISED PER CLIENT COMMENTS	
MARK	DATE	DESCRIPTION	
ISSUE PHASE	FINAL	DATE ISSUED	12/04/2020
PROJECT TITLE:			

MOUNT ALBERT
FA ID # 10072222

PROJECT INFORMATION:
11910 CARROLL MILL ROAD
ELLIOTT CITY, MD 21042

SHEET TITLE:

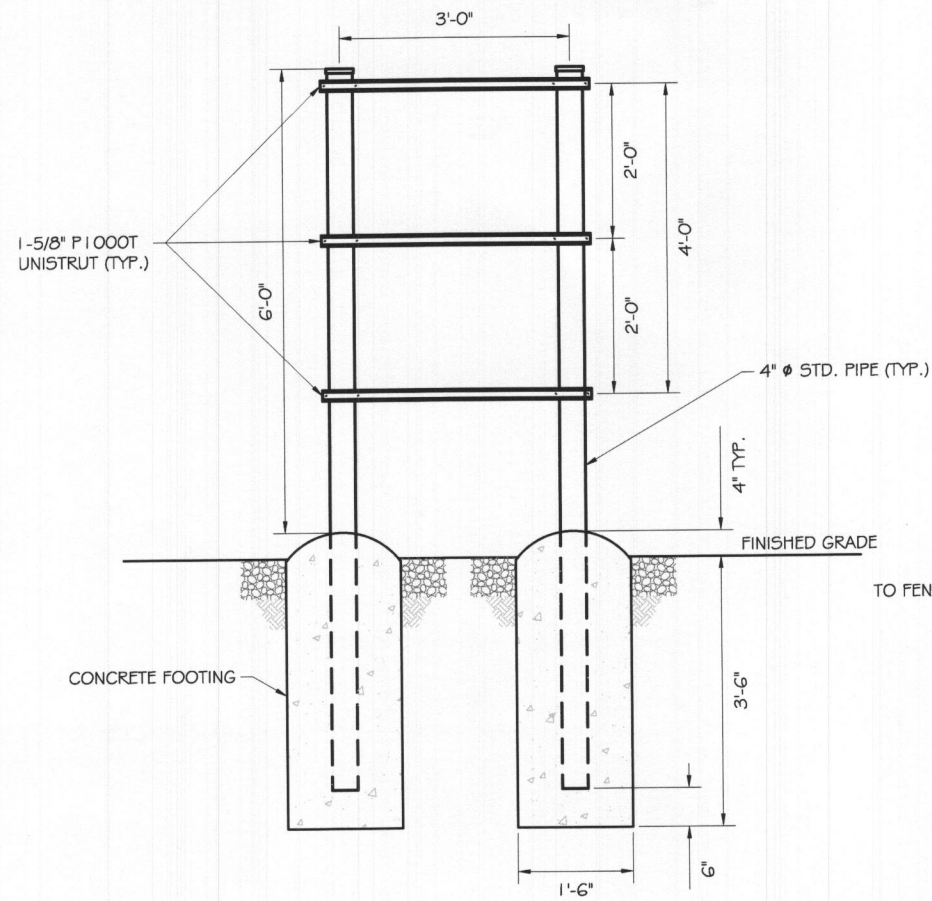
FOUNDATION DETAILS

SCALE: NONE

PROJECT NUMBER	48284
SHEET NUMBER	S-1

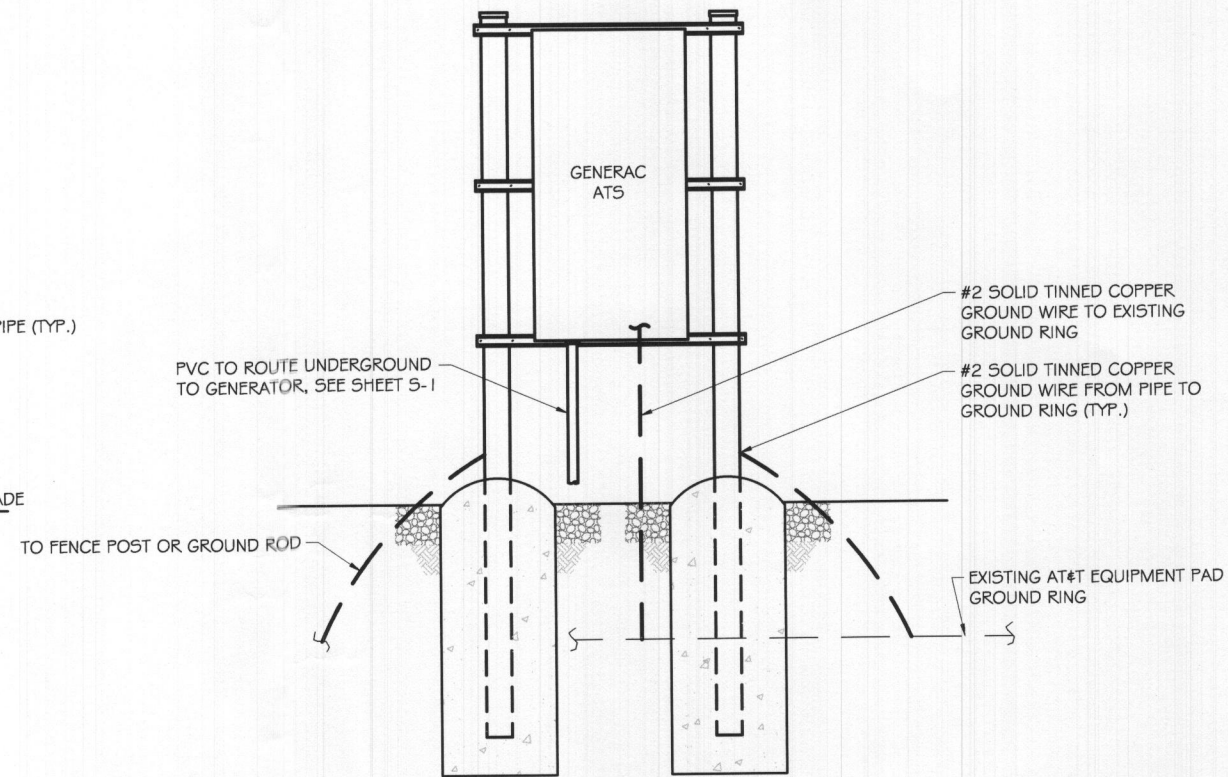
SCOPE OF WORK DETAILS

- 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.



FRONT VIEW - RACK

TOP VIEW - RACK



FRONT VIEW - ATS

TOP VIEW - ATS


RAMAKER
employee-owned
(608) 643-4100 www.ramaker.com

PREPARED FOR:


at&t
Mobility

CONSULTANT:

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Information Technology, Inc.

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PROJECT TITLE:	MOUNT ALBERT FA ID # 10072222	
PROJECT INFORMATION:	11910 CARROLL MILL ROAD ELLIOTT CITY, MD 21042	
SHEET TITLE:	H-FRAME DETAILS	
SCALE:	NONE	
PROJECT NUMBER	48284	
SHEET NUMBER	S-2	

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	12-PAIR 24 AWG OR 2EA 6-PAIR CAT5	N/A	1"	ALARM CABLES (1) 12 PAIR 24 AWG. PROVIDE 24" OF SLACK CABLE. FINAL PUNCH DOWN IS BY AT&T TECH. LABEL ALL WIRES
7	AUTOMATIC TRANSFER SWITCH	ALARM BLOCK	12-PAIR 24 AWG OR 2EA 6-PAIR CAT5	N/A	1"	ALARM CABLES (1) 12 PAIR 24 AWG (RUN TO PURCELL CABINET & INTO ALARM BOX). PROVIDE 24" OF SLACK CABLE. FINAL PUNCH DOWN IS BY AT&T TECH. LABEL ALL WIRES

CIRCUIT DETAIL

SCALE: NTS

1

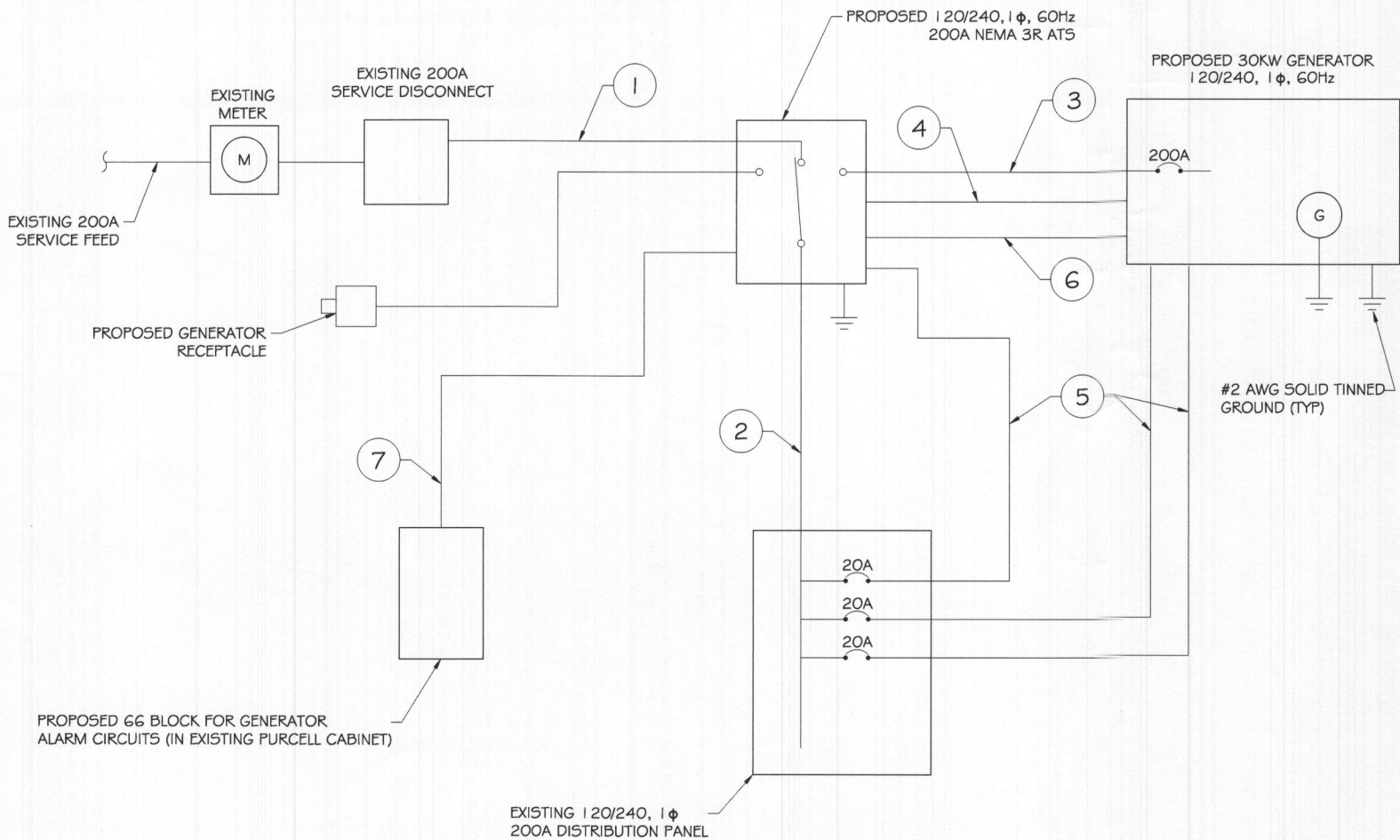
ALARM WIRE IDENTIFICATION CHART

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

ALARM WIRING IDENTIFICATION CHART

SCALE: NTS

2



PROPOSED WIRING DIAGRAM

SCALE: NTS

3



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PREPARED FOR:



at&t

Mobility

CONSULTANT:

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Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly Licensed Professional Engineer under the laws of the State of Maryland.

License No: 37842, Expiration Date: 9/8/2021



1	01/08/21	REVISED PER CLIENT COMMENTS
MARK	DATE	DESCRIPTION
ISSUE	DATE	12/04/2020
PHASE	ISSUED	
PROJECT TITLE:		
MOUNT ALBERT		
FA ID # 10072222		
PROJECT INFORMATION:		
11910 CARROLL MILL ROAD		
ELLIOTT CITY, MD 21042		
SHEET TITLE:		
WIRING DETAILS		
SCALE: NONE		
PROJECT NUMBER	48284	
SHEET NUMBER	E-1	

AC Distribution Panel (A) - Layout Diagram									
Breaker Position	Breaker Type	On/Off	Size	Circuit Label	Breaker Position	Breaker Type	On/Off	Size	Circuit Label
1	1P	On	20	CB1 FRONT RECEPT	2	2P	On	30	RECTIFIER FEED 7 SHELF 2
3	2P	On	20	AIR COND RECEPT	4	2P	On	30	RECTIFIER FEED 8 SHELF 2
5	2P	On	30	RECTIFIER FEED 1 SHELF 1	6	2P	On	30	RECTIFIER FEED 9 SHELF 3
7	2P	On	30	RECTIFIER FEED 2 SHELF 1	8	2P	On	30	RECTIFIER FEED 10 SHELF 3
9	2P	On	30	RECTIFIER FEED 3 SHELF 1	10	2P	On	30	RECTIFIER FEED 11 SHELF 3
11	2P	On	30	RECTIFIER FEED 4 SHELF 1	12	2P	On	30	NOKIA HEATER
13	2P	On	30	RECTIFIER FEED 5 SHELF 2	14	2P	On	30	ATS
15	2P	On	30	RECTIFIER FEED 6 SHELF 2	16	2P	On	30	BLOCK HEATER
17	2P	On	30	RECTIFIER FEED 7 SHELF 2	18	2P	On	30	BATTERY CHARGER
19	2P	On	30	RECTIFIER FEED 8 SHELF 2	20	2P	On	30	
21	2P	On	30	RECTIFIER FEED 9 SHELF 2	22	2P	On	30	
23	2P	On	30	RECTIFIER FEED 10 SHELF 2	24	2P	On	30	
25	2P	On	30	RECTIFIER FEED 11 SHELF 2	26	2P	On	30	
27	2P	On	30	RECTIFIER FEED 12 SHELF 2	28	2P	On	30	
29	2P	On	30	RECTIFIER FEED 13 SHELF 2	30	2P	On	30	

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

EXISTING PANEL (A) SCHEDULE

SCALE: NTS

AC Distribution Panel (B) - Layout Diagram									
Breaker Position	Breaker Type	On/Off	Size	Circuit Label	Breaker Position	Breaker Type	On/Off	Size	Circuit Label
1	2P	On	40	RBA72 RECTIFER 1/2	2	2P	On	30	*
3	2P	On	40	RBA72 RECTIFER 3/4	4	2P	On	30	*
5	2P	On	40	RBA72 RECTIFER 3/4	6	1P	On	20	*
7	2P	On	40	RBA72 RECTIFER 3/4	8	2P	On	50	*
9	1P	On	40	RBA72 AUX	10	2P	On	100	PURCELL
11	1P	On	15	UMTS REC	12	2P	On	100	PURCELL
13	2P	On	20	UMTS AC	14	2P	On	100	PURCELL
15	2P	On	20	UMTS AC	16	2P	On	100	PURCELL
17	2P	On	20	UMTS AC	18	2P	On	100	PURCELL
19	2P	On	20	UMTS AC	20	2P	On	100	PURCELL
21	2P	On	20	UMTS AC	22	2P	On	100	PURCELL
23	2P	On	20	UMTS AC	24	2P	On	100	PURCELL

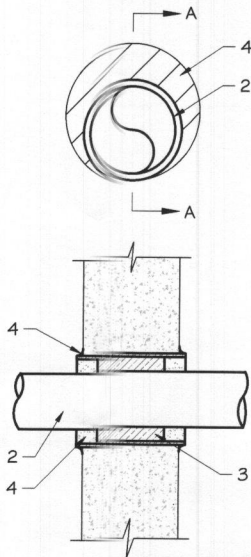
* VERIFY ON FIELD

EXISTING PANEL (B) SCHEDULE

SCALE: NTS

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

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



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

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

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

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

CADWELD DETAILS

SCALE: NTS


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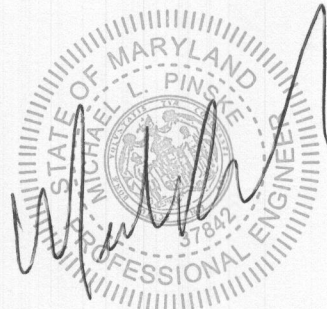
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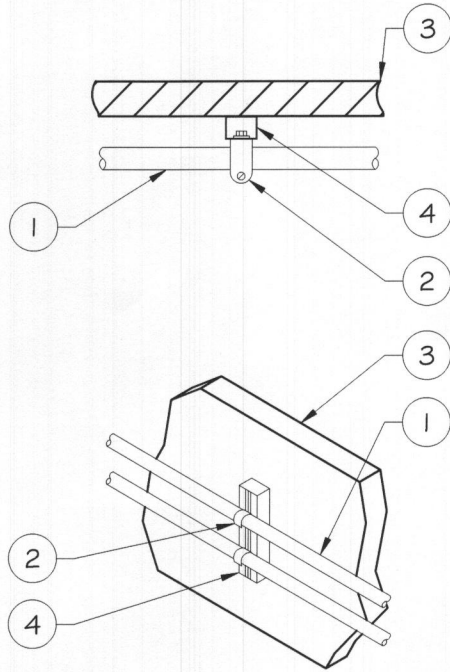
1	01/08/21	REVISED PER CLIENT COMMENTS
MARK	DATE	DESCRIPTION
ISSUE	DATE	ISSUED
PHASE	FINAL	12/04/2020
PROJECT TITLE:		
MOUNT ALBERT FA ID # 10072222		
PROJECT INFORMATION: 11910 CARROLL MILL ROAD ELLIOTT CITY, MD 21042		
SHEET TITLE:		
PANEL AND PENETRATION DETAILS		
SCALE: NONE		
PROJECT NUMBER: 48284		
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"

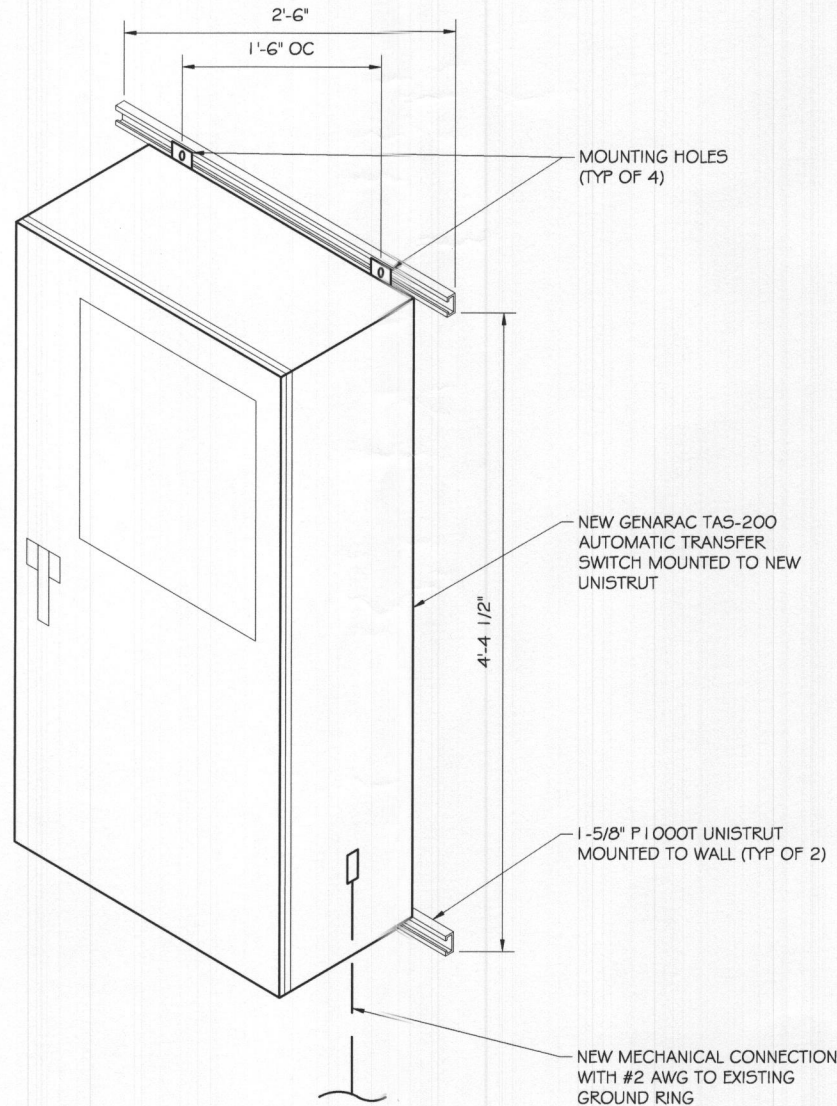
NOTE: USE GALVANIZED OR STAINLESS STEEL HARDWARE FOR
WALL MOUNT & CONNECTIONS OF CHANNELS 5 SPACE UNITS @
5'-0" O.C. LENGTH OF RUN

CONDUIT WALL MOUNT
SCALE: NTS

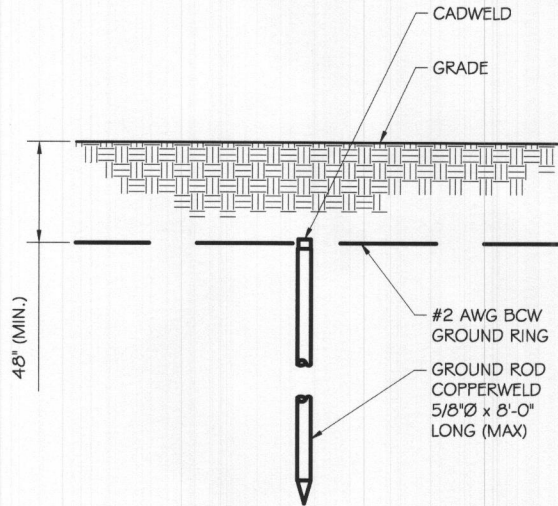


WALL CONSTRUCTION TYPE	USE
HOLLOW	3/8" DIA. TOGGLE BOLT
HOLLOW, AT STUD	3/8" DIA. LAG SCREW
CONCRETE BLOCK (HOLLOW)	7/16" DIA. HILTI HY-20 WITH SCREEN MINIMUM EMBEDMENT 2-1/2"
CONCRETE (SOLID)	7/16" DIA. HILTI HY-150 WITH SCREEN MINIMUM EMBEDMENT 2-1/2"

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



GENERAC ATS MOUNTING DETAIL
SCALE: NTS



GROUND ROD DETAIL
SCALE: NTS

- NOTE:
- 1. GROUND RODS MAY BE:
 - COPPER CLAD STEEL
 - SOLID COPPER
 - 2. GROUND RODS SHALL HAVE
A MAXIMUM SPACING TWICE
THE LENGTH OF ROD
 - 3. SEE RESISTIVITY REPORT
FOR VERIFICATION AS
AVAILABLE
 - 4. 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)
 - 5. PROVIDE (1) GROUND LEAD
TO EACH SIDE OF THE
GENERATOR



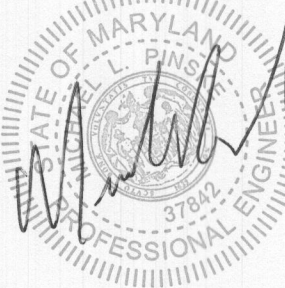
PREPARED FOR:



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

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1	01/08/21	REVISED PER CLIENT COMMENTS
MARK	DATE	DESCRIPTION
ISSUE	FINAL	DATE ISSUED 12/04/2020
PHASE		
PROJECT TITLE:		
MOUNT ALBERT FA ID # 10072222		
PROJECT INFORMATION: 11910 CARROLL MILL ROAD ELLIOTT CITY, MD 21042		
SHEET TITLE:		
ATS, CONDUIT & GROUND ROD DETAILS		
SCALE: NONE		
PROJECT NUMBER	48284	
SHEET NUMBER	E-3	

SD030 | 2.2L | 30 kW
INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency



OPERATING DATA

POWER RATINGS

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

MOTOR STARTING CAPABILITIES (skVA)

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

FUEL CONSUMPTION RATES*

Fuel Pump Lift- ft (m)		Diesel - gph (Lph)	
		Percent Load	Standby
3 (1)		25%	1.0 (3.7)
		50%	1.4 (5.2)
		75%	2.0 (7.5)
		100%	2.8 (10.5)
Total Fuel Pump Flow (Combustion + Return) - gph (Lph)			
16.6 (63)			

* 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 ₂ O (kPa)	0.5 (0.12)

COMBUSTION AIR REQUIREMENTS

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

ENGINE

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

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)

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

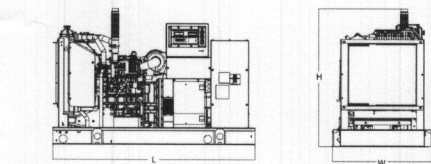
Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions.
Please contact a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528, and DIN6271 standards.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

SD030 | 2.2L | 30 kW
INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

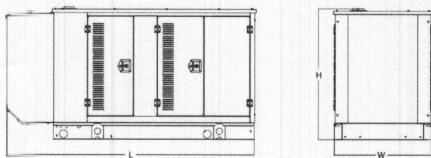


DIMENSIONS AND WEIGHTS*



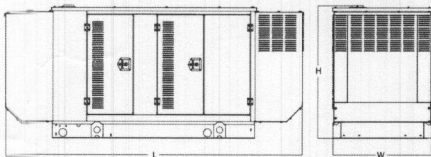
OPEN SET (Includes Exhaust Flex)

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



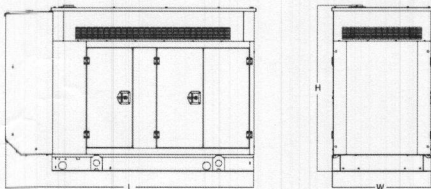
WEATHER PROTECTED ENCLOSURE

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg)	
			Steel	Aluminum
No Tank	-	94.8 (2,409) x 38.0 (965) x 49.5 (1,258)		
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)		
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)		
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)		
47	132 (501)	94.8 (2,407) x 38.0 (965) x 86.1 (2,186)	510 (232)	341 (155)
75	211 (799)	94.8 (2,407) x 38.0 (965) x 98.1 (2,491)		
107	300 (1,136)	94.8 (2,407) x 38.0 (965) x 98.1 (2,491)		

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

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

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PREPARED FOR:



CONSULTANT:
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Information Technology, Inc.

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I	01/08/21	REVISED PER CLIENT COMMENTS

MARK	DATE	DESCRIPTION
ISSUE PHASE	FINAL	DATE ISSUED 12/04/2020

PROJECT TITLE:
**MOUNT ALBERT
FA ID # 10072222**

PROJECT INFORMATION:
11910 CARROLL MILL ROAD
ELLIOTT CITY, MD 21042

SHEET TITLE:
**GENERAC 30KW GENERATOR
SPECIFICATIONS**

SCALE: NONE

PROJECT NUMBER
48284
SHEET NUMBER
E-4.2

200 Amps
600 VAC



200A Automatic Transfer Switch

TAS200 TAS200

1 of 3 2 of 3

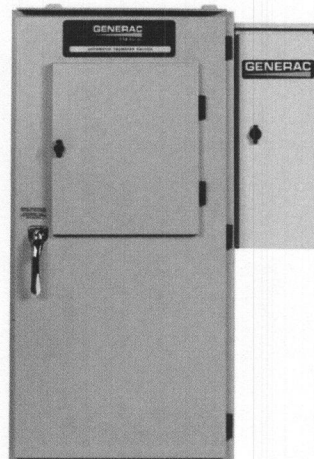


Image used for illustration purposes only

The Generac TAS200 Automatic Transfer Switch

Flexibility for multiple application installations

Multiple generator support with 3 source panel

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

Camlock functionality for mobile generator sources

Features

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

Optional Features

- EXTENDED WARRANTY
- THREE-PHASE VOLTAGE CONFIGURATIONS

Codes and Standards

Generac products are designed to the following standards:



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



NEC 700, 701 and 702



NEMA 250

Application and Engineering Data

Cabinet Specifications

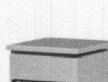
Dimensions	24"W x 12"D x 48"H
Weight	210 lbs.
Construction	Single Chamber with Main Door
	Steel
	UL Type / NEMA 3R Rated
	Powder Coat Finish for Corrosion Resistance
	C-UL-US Listed - Automatic Transfer Switch
	Stainless Steel Hardware
	3-Point Latching System with Pad-Lockable Handles
Mounting Options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



GENERAC ATS SPECIFICATIONS



RĀMAKER

(608) 643-4100 www.ramaker.com

PREPARED FOR:



CONSULTANT:

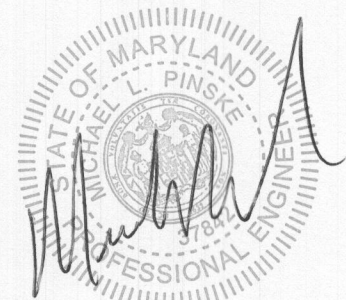
GENERAL DYNAMICS
Information Technology, Inc.

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

Certification & Seal:

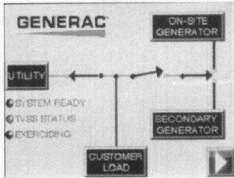
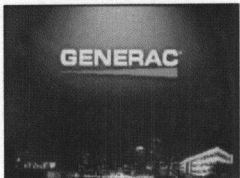
Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly Licensed Professional Engineer under the laws of the State of Maryland.

License No: 37842, Expiration Date: 9/8/2021



I	01/08/21	REVISED PER CLIENT COMMENTS							
MARK	DATE	DESCRIPTION							
ISSUE PHASE	FINAL					DATE ISSUED	12/04/2020		
PROJECT TITLE:									
MOUNT ALBERT FA ID # 10072222									
PROJECT INFORMATION: 11910 CARROLL MILL ROAD ELLIOTT CITY, MD 21042									
SHEET TITLE:									
GENERAC ATS SPECIFICATIONS									
SCALE: NONE									
PROJECT NUMBER						48284			
SHEET NUMBER						E-5			

Touch Screen Interface



INDICATORS AND BUTTONS

<ul style="list-style-type: none">System Ready indicatorStandby Operating indicatorUtility Available indicatorGEN/UTIL Switch Position indicatorTVSS status	<ul style="list-style-type: none">Normal Test buttonFast Test buttonReturn to Normal buttonReset buttonExercising indicator
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DETAILS SCREEN

<p>System Settings:</p> <ul style="list-style-type: none">System Voltage/Phases:<ul style="list-style-type: none">120/240V single phase (standard)120/208V three phase (optional)120/240V three phase (optional)Utility Fail Monitor:<ul style="list-style-type: none">Under Voltage: 75-95% of nominal voltageOver Voltage: 105%-125% of nominal voltagePickup (hysteresis): fixed at 5 voltsDelay time: 0-60sUtility Interrupt Delay: 0-60sReturn to Utility Timer: 1-30 minutesTransfer:<ul style="list-style-type: none">In-phase, orTime-Delay-Neutral at 0.0-10.0s in 1 second increments	<p>Exercise Settings:</p> <ul style="list-style-type: none">Time of dayDay of weekExercise:<ul style="list-style-type: none">Exercise with/without loadExercise once every 1, 2, or 4 weeks.Exercise time-of-dayExercise day of weekExercise duration: 15-30 minutes
	<p>Screen Settings:</p> <ul style="list-style-type: none">Brightness & Contrast buttonScreen Calibration buttonStartup/Clean screen
	<p>Diagnostics:</p> <ul style="list-style-type: none">Digital I/O bits statusVoltage A/D readings
<p>Engine Settings:</p> <ul style="list-style-type: none">Engine Warm-up timer: 0-20 minutesGenerator Load Accept:<ul style="list-style-type: none">Time-Delay-Neutral at 0.0-10.0s in 1 second incrementsVoltage: 85-95% of nominalFrequency: 85-95% of nominalEngine Minimum Run Timer: 5-30 minutesEngine Cooldown Timer: 0-20 minutes	<p>Mimic Diagram:</p> <ul style="list-style-type: none">System ReadyTransfer switch positionUtility availableStandby availableMaintenance/Auto switch positionGenerator source TS positionTVSS status

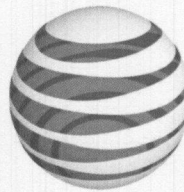


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at&t
Mobility

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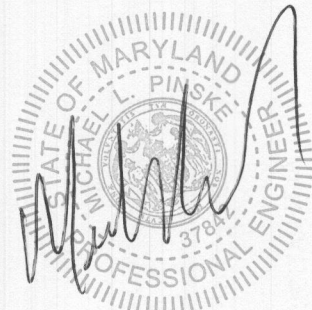
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MARK	DATE	DESCRIPTION
ISSUE	FINAL	DATE ISSUED 12/04/2020

PROJECT TITLE:

MOUNT ALBERT
FA ID # 10072222

PROJECT INFORMATION:
11910 CARROLL MILL ROAD
ELLIOTT CITY, MD 21042

SHEET TITLE:

GENERAC ATS SPECIFICATIONS

SCALE: NONE

PROJECT NUMBER	48284
SHEET NUMBER	E-5.1