

INTEROFFICE MEMORANDUM

To:	Tad M. Miller, City Clerk
From:	John F. Spirk, Jr., Esq., City Solicitor
Re:	Fifth Amendment to Tower Lease Agreement Lessee Name: New Cingular Wireless PCS, LLC (successor in interest to Pennsylvania Cellular Telephone Corporation d/b/a AT&T Wireless Services) Location: South Mountain Park
Date:	June 30, 2022

Attached is a proposed Resolution and associated Fifth Amendment to Tower Lease Agreement for Council's consideration. The Amendment adds additional area to the leased premises for a generator and a corresponding rent increase for the additional premises, and otherwise modifies the lease as provided therein.

Please place this matter on City Council's agenda for review and appropriate action.

John F. Spirk, Jr. John F. Spirk, Jr., Esq., Solicitor

Cc: J. William Reynolds, Mayor Michael Alkhal, Director, Public Works Gregory Cryder, City Electrician

RESOLUTION NO. 2022-____

Authorization For Fifth Amendment to City of Bethlehem Tower Lease Agreement

BE IT RESOLVED by the Council of the City of Bethlehem that the Mayor and the Controller and/or such other City officials as deemed appropriate by the City Solicitor, are hereby authorized to execute the Fifth Amendment to City of Bethlehem Tower Lease Agreement between the City of Bethlehem and New Cingular Wireless PCS, LLC, a Delaware limited liability company, successor in interest to Pennsylvania Cellular Telephone Corporation d/b/a AT&T Wireless Services, and such other agreements and documents as are deemed by the City Solicitor to be necessary and/or related thereto, according to the terms and conditions indicated therein and made a part hereof, as it relates to the South Mountain Park tower site.

Spon	sored by	
ADOPTED by Council this	day of	, 2022.

President of Council

ATTEST:

City Clerk

Market: <u>RPHL</u> Cell Site Number: <u>2164</u> Cell Site Name: <u>FOUNTAIN HILL</u> **Fixed Asset Number: <u>10084307</u>**

FIFTH AMENDMENT TO CITY OF BETHLEHEM TOWER LEASE AGREEMENT

THIS FIFTH AMENDMENT TO CITY OF BETHLEHEM TOWER LEASE AGREEMENT dated as of the latter of the signature dates below, is by and between City of Bethlehem, having a mailing address of 10 East Church Street, Bethlehem, PA 18018 ("**Lessor**") and New Cingular Wireless PCS, LLC, a Delaware limited liability company, successor in interest to Pennsylvania Cellular Telephone Corporation d/b/a AT&T Wireless Services, having a mailing address of 1025 Lenox Park Boulevard NE, 3rd Floor Atlanta, GA 30319 ("**Lessee**").

WHEREAS, Lessor and Lessee entered into a City of Bethlehem Tower Lease Agreement dated February 11, 1993, an Amendment No. 1 to Contract dated October 26, 1994, a Second Amendment to Tower Lease Agreement dated July 15, 2002, a Third Amendment to Tower Lease dated September 16, 2004, and a Fourth Amendment to Tower Lease Agreement dated June 8, 2007, whereby Lessor leased to Lessee certain Premises, therein described, that are a portion of the Property located in South Mountain Park on University Avenue, Bethlehem, PA 18015 ("Agreement"); and

WHEREAS, Lessor and Lessee desire, in their mutual interest, wish to amend the Agreement as set forth below.

NOW THEREFORE, in consideration of the foregoing and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Lessor and Lessee agree as follows:

1. New Premises Area. The definition of Demised Premise shall be amended to include the additional premises described on attached Exhibit 1-A ("New Premises Area"). Lessor's execution of this Amendment will signify Lessor's review and approval of Exhibit 1-A.

2. Generator. Section 1 of the Agreement shall be amended to include the following sentence: Lessee shall have the right to install, repair, maintain, modify, replace, remove, utilize and operate (including but not limited to operate as may be required by applicable law) equipment within the New Premises Area, including without limitation a concrete pad and generator thereon, including back-up power supply. The generator shall remain the property of Lessee.

3. Rent. The Annual Rent shall be increased by Four Thousand Two Hundred Dollars (\$4,200.00), and each monthly installment of such Rent shall increase by Three Hundred Fifty and No/100 Dollars (\$350.00) per month, subject to further adjustments, if any, commencing on the first day of the month following commencement of the work relating to the installation of the New Premises Area.

4. Other. Lessor represents and warrants that, to its knowledge, no conditions exist within the New Premises Area or otherwise on the Demised Premises that would adversely impact Lessee's permitting and/or installation of a generator within the New Premises Area. Lessor authorizes Lessee to prepare, execute and file all required applications to obtain any government approvals for Lessee's use of the New Premises Area under this Agreement and agrees, at Lessee's request, to reasonably assist Lessee with such applications and with obtaining and maintaining the government approvals. Where applicable law governs how the generator will be used, Lessee may use the generator in the manner set forth in applicable law. Lessee may terminate this Amendment by written notice to Lessor at any time, and the rent increase set forth in Section 3 shall not take effect or shall be cancelled, as applicable, thirty (30) days following any such termination. Within one hundred twenty days (120) after termination of this Amendment, Lessee shall remove the generator from the New Premises Area; provided that any portions of the generator that Lessee fails to remove within such period and cessation of Lessee's operations at the New Premises Area shall be deemed abandoned. Lessee shall repair, at its sole expense, any damage, less ordinary wear and tear, to the New Premises Area caused by its removal activities. Nothing herein shall alter or modify the indemnification obligations of Lessee under Section 14 of the Agreement.

5. Section 21 of the Agreement, as amended, is hereby deleted in its entirety and replaced with the following:

Notices. All notices, requests, demands and communications hereunder will be given by first class certified or registered mail, return receipt requested, or by a nationally recognized overnight courier, postage prepaid, to be effective when properly sent and received, refused or returned undelivered. Notices will be addressed to the parties as follows.

If to LESSOR:	City of Bethlehem 10 East Church Street Bethlehem, PA 18018 Attn: Director of Public Works	If to LESSEE:	New Cingular Wireless PCS, LLC Attn: TAG - LA Re: Cell Site # <u>2164</u> Cell Site Name: <u>FOUNTAIN HILL (PA)</u> Fixed Asset #: <u>10084307</u> 1025 Lenox Park Blvd NE 3rd Floor Atlanta, GA 30319
		With copy to:	New Cingular Wireless PCS, LLC Attn: Legal Department Re: Cell Site # <u>2164</u> Cell Site Name:(FOUNTAIN HILL PA) Fixed Asset #: <u>10084307</u> 208 S. Akard Street Dallas, Texas, 75202-4206

The copy sent to the Legal Department is an administrative step which alone does not constitute legal notice. Either party hereto may change the place for the giving of notice to it by thirty (30) days prior written notice to the other as provided herein.

6. Memorandum of Lease. Either party will, at any time upon thirty (30) days prior written notice from the other, execute, acknowledge and deliver to the other a recordable Memorandum of Lease. Either party may record this memorandum at any time, in its absolute discretion.

7. Other Terms and Conditions Remain. In the event of any inconsistencies between the Agreement and this Fifth Amendment, the terms of this Fifth Amendment shall control. Except as expressly set forth in this Fifth Amendment, the Agreement otherwise is unmodified and remains in full force and effect. Each reference in the Agreement to itself shall be deemed also to refer to this Fifth Amendment. The rights granted to Lessee herein are in addition to and not intended to limit any rights of Lessee in the Agreement. Unless otherwise specified herein or unless the context requires otherwise, the terms in the Agreement shall apply to the New Premises Area.

8. Capitalized Terms. All capitalized terms used but not defined herein shall have the same meanings as defined in the Agreement.

IN WITNESS WHEREOF, the parties have caused their properly authorized representatives to execute and seal this Fifth Amendment on the dates set forth below.

LESSOR:

City of Bethlehem

LESSEE:

New Cingular Wireless PCS, LLC, a Delaware limited liability company

By: AT&T Mobility Corporation Its: Manager

By: ______ Print Name: <u>J. William Reynolds</u> Its: ______ Date: ______

By:	
Print Name:	
Its:	
Date:	

Attest:	
Print Name: George Yasso	
Its: Controller	
Date:	
	-

LESSEE ACKNOWLEDGEMENT

STATE OF)
)ss:
COUNTY OF)

of , 20 On the day before me personally appeared acknowledged under that he is the and oath of of named in the attached , the_ instrument, and as such was authorized to execute this instrument on behalf of the

> Notary Public: ______ My Commission Expires: _____

LESSOR ACKNOWLEDGEMENT

COMMONWEALTH OF PENNSYLVANIA) : SS: COUNTY OF NORTHAMPTON)

ACKNOWLEDGMENT

On this _____ day of _____, 20___, before me, the undersigned officer, a Notary Public, personally appeared J. WILLIAM REYNOLDS, Mayor of the City of Bethlehem, Pennsylvania, known to me to be the person described in the foregoing instrument, and acknowledged that he executed the same in his official capacity therein stated and for the purposes therein contained.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

Notary Public:	
My Commission Expires:	

EXHIBIT 1-A

Additional Premises Area

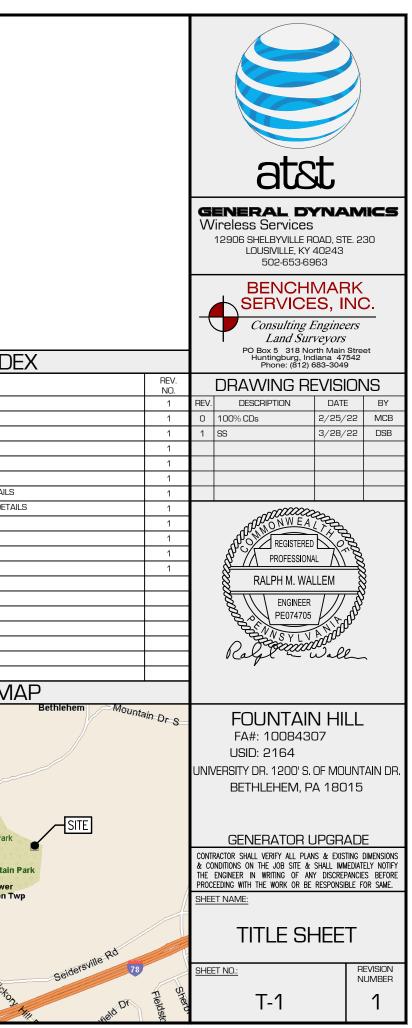
See attached



FOUNTAIN HILL FA#: 10084307 USID: 2164 UNIVERSITY DR. 1200' S. OF MOUNTAIN DR. BETHLEHEM, PA 18015

GENERATOR UPGRADE

	SITE INFORMATION	APPRO\	/ALS		SHEET IND
GOVERNING CODE:	IBC 2021, NEC 2020, ANSI/TIA-222 STRUCTURAL STANDARD, & NFPA 780 LIGHTNING PROTECTION CODE 2020			SHT. NO.	DESCRIPTION
SITE ADDRESS:	UNIVERSITY DR. 1200' S. OF MOUNTAIN DR.	AT&T CONSTRUCTION MANAGER	DATE	T-1	TITLE SHEET
	BETHLEHEM, PA 18015	AT&T CONSTRUCTION MANAGER	DATE	SP-1	GENERAL NOTES
COUNTY:	NORTHAMPTON			A-1	OVERALL SITE PLAN
PROPERTY OWNER:	UNSPECIFIED	GENERAL DYNAMICS CONSTR. MGR	DATE	A-2	EQUIPMENT PLAN
PROPERTY OWNER CONTACT:	UNSPECIFIED			S-1	FOUNDATION DETAILS
APPLICANT:	AT&T MOBILITY 8372 E. BROAD STREET			E-1	WIRING DIAGRM
	REYNOLDSBURG, OH 43068	PROPERTY OWNER	DATE	D-1	PANEL, GROUNDING, & PENETRATION DETAILS
SCOPE OF WORK:	INSTALL NEW GENERAC 30KW DIESEL GENERATOR ON NEW CONCRETE PAD.			D-2	ATS, CONDUIT, TRENCH, & GROUND ROD DETA
	INSTALL NEW AUTOMATIC TRANSFER SWITCH (ATS) ON SHELTER EXTERIOR. INTEGRATE EXISTING ALARM AND ELECTRICAL CONNECTIONS WITH NEW			G-1	GENERATOR DETAILS
	EQUIPMENT.	SITE ACQUISITION	DATE	G-2	GENERATOR DETAILS
JTILITY INFORMATION:	THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURE, ABOVE GROUND			G-3	GENERATOR DETAILS
	STRUCTURES AND/OR EXISTING UTILITIES BELIEVED TO BE IN THE WORKING			G-4	GENERAC ATS DETAILS
	AREA. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL UTILITIES, PIPELINES AND OTHER STRUCTURES SHOWN OR NOT SHOWN ON	CONTRACTOR	DATE		
	THESE PLANS. THE CONTRACTOR SHALL VERIFY STATE AND LOCAL UTILITY				
	NOTIFICATION SERVICES BEFORE DIGGING OR DRILLING. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER				
	AND ENGINEER AT THE CONTRACTOR'S EXPENSE.	CONTRACTOR	DATE		
GENERAL SITE INFORMATION:	(1) FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION.				
	 (2) HANDICAP ACCESS IS NOT REQUIRED. (3) FACILITY HAS NO PLUMBING OR PARKING. 				
	(4) NO GRADING WILL BE REQUIRED FOR THIS SITE.	CONTRACTOR	DATE	_	
	AREA MAP	PROJECT	TEAM		VICINITY M
Rising Sun	Lerchs Steuben Newburg Phillipsb	ENGINEER:	MARKET LEAD:	oravio de	
	Northampton			oravit be	
		BENCHMARK SERVICES, INC.	MATTHEW HIGGINS		
	Hanoverville Delmar Leighte Wilson	GARY VAN WINKLE			
	Coplay 3 data Palmer Heights A	GARY VAN WINKLE PO BOX 318 NORTH MAIN STREET	GENERAL DYNAMICS WIRELESS SERVICES		
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NOTES TO CONTRACTOR:

- THE GENERAL CONTRACTOR MUST VERIFY ALL DIMENSIONS, CONDITIONS AND ELEVATIONS BEFORE STARTING WORK. ALL DISCREPANCIES SHALL BE RESOLVED BEFORE PROCEEDING WITH THE WORK. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER IN ACCORDANCE WITH ACCEPTED CONSTRUCTION PRACTICES
- 2. IT IS THE INTENTION OF THESE DRAWINGS TO SHOW THE COMPLETED INSTALLATION THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY BRACING, SHORING, TIES, FORM WORK, ETC. IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL ORDINANCES TO SAFELY EXECUTE ALL WORK AND SHALL BE RESPONSIBLE FOR SAME. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES.
- 3. THE CONTRACTOR SHALL USE ADEQUATE NUMBER OF SKILLED WORKMAN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND METHOD NEEDED FOR PROPER PERFORMANCE OF THE WORK
- CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO INDEMNIFY AND HOLD DESIGN ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED. IN CONNECTION WITH PERFORMANCE OF WORK ON THIS PROJECT
- SITE GROUNDING SHALL COMPLY WITH AT&T MOBILITY WIRELESS SERVICES TECHNICAL SPECIFICATIONS FOR FACILITY GROUNDING FOR CELL SITE STANDARDS. LATEST EDITION AND COMPLY WITH AT&T MOBILITY TOWERS GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT, THEY SHALL GOVERN.
- ALL WORK SHALL COMPLY WITH OSHA AND STATE SAFETY REQUIREMENTS PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION. IF FAA LIGHTING AND MARKING IS PRESENT ON SITE AND IS POWERED BY ELECTRICAL SERVICE THAT IS TO BE INTERRUPTED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE NECESSARY LIGHTS AND NOTIFY THE PROPER AUTHORITIES IN THE EVENT OF A PROBLEM.
- ALL WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL CODES OR ORDINANCES. THE MOST STRINGENT CODE WILL APPLY IN THE CASE OF DISCREPANCIES OR DIFFERENCES IN THE CODE REQUIREMENTS.
- ANY DAMAGE TO THE ADJACENT PROPERTIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE LANDOWNER AND THE ENGINEEF
- THE COMPLETE BID PACKAGE INCLUDES THESE CONSTRUCTION DRAWINGS ALONG WITH THE SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR REVIEW OF TOTAL BID PACKAGE PRIOR TO BID SUBMITTAL.
- 10 CONTRACTOR SHALL VERIEY LOCATION OF ALL EXISTING UTILITIES WITHIN CONSTRUCTION LIMITS PRIOR TO CONSTRUCTION
- 11. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE ON THE SITE AT ALL TIME. SILT FENCE AND EROSION CONTROL SHALL BE MAINTAINED ON THE DOWNSTREAM SIDE OF THE SITE AT ALL TIMES. ANY DAMAGE TO ADJACENT PROPERTIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE
- 12. PERMITS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND INCURRING THE COST OF ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATES,
- 13. RECORD DRAWINGS: MAINTAIN A RECORD OF ALL CHANGES, SUBSTITUTIONS BETWEEN WORK AS SPECIFIED AND INSTALLED. RECORD CHANGES ON A CLEAN SET OF CONTRACT DRAWING WHICH SHALL BE TURNED OVER TO THE CONSTRUCTION MANAGER UPON COMPLETION OF THE PROJECT.
- 14. RECORD PHOTOS: INCLUDE TIME/DATE STAMPED PHOTOS WITH TAPE MEASURE DEPTH VERIFICATION
- 15. ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- 16. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY THE CONSTRUCTION OPERATION.
- 17. CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY
- INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM DRAWINGS PROVIDED BY THE SITE OWNER. CONTRACTOR SHALL NOTIFY GENERAL DYNAMICS WIRELESS SERVICES OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- 19. CLEARING OF TREES AND VEGETATION ON THE SITE SHOULD BE HELD TO A MINIMUM. ONLY THE TREES NECESSARY FOR CONSTRUCTION OF THE FACILITIES SHALL BE REMOVED. ANY DAMAGE TO THE PROPERTY OUTSIDE THE LEASED PROPERTY SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE
- 20. ALL SUITABLE MATERIAL FOR BACK FILL OF THE SITE SHALL BE INCLUDED IN THE BID EXCESS TOPSOIL AND UNSUITABLE MATERIAL SHALL BE DISPOSED OF OFF SITE AT LOCATION APPROVED BY GOVERNING AGENCIES PRIOR TO DISPOSAL

21. SEEDING AND MULCHING OF THE SITE SHALL BE ACCOMPLISHED AS SOON AS POSSIBLE AFTER COMPLETION OF THE SITE DEVELOPMENT. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING AN ADEQUATE COVER OF VEGETATION OVER THE SITE FOR A MINIMUM PERIOD OF ONE YEAR.

GENERAL NOTES:

- 1. THIS PROPOSAL IS FOR THE ADDITION OF A NEW GENERATOR ON A CONCRETE PAD TO AN EXISTING UNMANNED TELECOMMUNICATIONS FACILITY.
- 2. THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE.
- 3. THE PROPOSED FACILITY IS UNMANNED AND IS NOT FOR HUMAN HABITATION. NO HANDICAP ACCESS IS REQUIRED
- 4. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH BY AT&T TECHNICIANS
- 5. OUTDOOR STORAGE AND SOLID WASTE CONTAINERS ARE NOT PROPOSED.
- 6. ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- 7. CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS
- 8. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM DRAWINGS PROVIDED BY THE SITE OWNER. CONTRACTOR SHALL NOTIFY AT&T OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OF PROCEEDING WITH CONSTRUCTION.

ELECTRICAL NOTES:

- A. GENERAL
- COORDINATE LOCATION AND PROPER REQUIREMENTS OF ALL EQUIPMENT WITH AT&T MOBILITY AND EQUIPMENT SUPPLIES PRIOR TO INSTALLATION.
- COORDINATE LOCATION AND REQUIREMENTS FOR ELECTRICAL SERVICE WITH THE PROPERTY REPRESENTATIVE, AT&T MOBILITY AND UTILITY COMPANIES. ROUTING OF CONDUITS MAY BE MODIFIED TO MEET SITE REQUIREMENTS. EXACT CONDUIT ROUTING TO BE DETERMINED IN THE FIELD.
- ALL WIRING AND EQUIPMENT SHOWN ON ELECTRICAL SHEETS SHALL BE FURNISHED AND INSTALLED UNDER ELECTRICAL PORTION OF CONTRACT UNLESS OTHERWISE NOTED.
- UNINTERRUPTED ELECTRICAL SERVICE FOR EXISTING EQUIPMENT SHALL BE MAINTAINED DURING THE INSTALLATION OF THE WORK DESCRIBED UNDER THESE DOCUMENTS. TEMPORARY EQUIPMENT, CABLES AND WHATEVER ELSE IS NECESSARY SHALL BE PROVIDED BY CONTRACTOR AS REQUIRED TO MAINTAIN ELECTRICAL SERVICE. TEMPORARY SERVICE FACILITIES, IF REQUIRED AT ANY TIME, SHALL NOT BE DISCONNECTED OR REMOVED UNTIL NEW SERVICE EQUIPMENT IS IN PROPER OPERATION. IF ANY SERVICE OR SYSTEM MUST BE INTERRUPTED, THE CONTRACTOR SHALL REQUEST PERMISSION IN WRITING STATING THE DATE, TIME, ETC. THE SERVICE WILL BE INTERRUPTED AND THE AREAS AFFECTED. THIS REQUEST SHALL BE MADE IN SUFFICIENT TIME FOR PROPER ARRANGEMENTS TO BE MADE. WRITTEN PERMISSION SHALL BE OBTAINED FROM THE OWNER BEFORE INTERRUPTING ELECTRICAL SERVICE.
- COORDINATE NEW WORK WITH OTHER TRADES AND VERIFY EXISTING CONDITIONS TO AVOID INTERFERENCE. IN CASE OF INTERFERENCE, AT&T MOBILITY'S REPRESENTATIVE WILL DECIDE WHICH WORK IS TO BE RELOCATED, REGARDLESS OF WHICH WAS FIRST INSTALLED.
- THE INSTALLATION MUST COMPLY WITH NEC AND ALL FEDERAL, STATE AND LOCAL RULES AND REGULATIONS
- THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND EQUIPMENT UNLESS OTHERWISE DEFINED BY DIMENSIONS OR DETAILS. EXACT EQUIPMENT LOCATIONS AND BACEWAY ROUTING SHALL BE GOVERNED BY ACTUAL FIELD CONDITIONS AND/OR DIRECTIONS FROM AT&T MOBILITY'S REPRESENTATIVE
- 8. CONTRACTOR SHALL PAY ALL PERMITS AND FEES REQUIRED.
- ALL MATERIALS SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE STANDARDS REFERENCED BELOW:
 - A. ANSI (AMERICAN NATIONAL STANDARDS INSTITUTE)
 - B. ASTM (AMERICAN SOCIETY FOR TESTING MATERIALS)
 - C. ETL (ELECTRICAL TESTING LABORATORY) D. ICEA (INSULATED CABLE ENGINEERS ASSOCIATION)
- IEEE (INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS)
- NBFU (NATIONAL BOARD OF FIRE UNDERWRITERS)
- G. NESC (NATIONAL ELECTRICAL SAFETY CODE)
- H. NEMA (NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION)
- NFPA (NATIONAL FIRE PROTECTION ASSOCIATION)
- UL (UNDERWRITERS LABORATORY)
- 10. CONTRACTOR SHALL REVIEW PLANS, DETAILS AND SPECIFICATIONS IN DETAIL AND ADJUST WORK TO CONFIRM WITH ACTUAL SITE CONDITIONS SO THAT ELECTRICAL DEVICES AND EQUIPMENT WILL BE PROPERLY LOCATED AND READILY ACCESSIBLE OF ANTITIES FISTED IN MATERIAL LISTS ON THE DRAWINGS ARE FOR INFORMATION ONLY THE CONTRACTOR SHALL PROVIDE HIS OWN TAKEOFF FOR MATERIAL QUANTITY AND TYPES BASED ON ACTUAL SITE CONDITIONS. IN ADDITION, CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIALS TO INSTALL EQUIPMENT FURNISHED BY AT&T MOBILITY OR ITS SUPPLIERS. ALL ITEMS NOT SPECIFICALLY MENTIONED HEREIN OR SHOWN ON THE CONTRACT DRAWINGS, BUT WHICH ARE OBVIOUSLY NECESSARY TO MAKE A COMPLETE WORKING INSTALLATION, SHALL BE INCLUDED.
- I 1. THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) AT&T MOBILITY'S REPRESENTATIVE OF ANY CONFLICTS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK. IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED IN WRITING OTHERWISE
- 12. ALL FLOORS WHERE PENETRATIONS ARE REQUIRED IN BUILDING ARE TO BE CORE DRILLED AND THEN FIREPROOFED.

B. WIRING/CONDUIT

- SUCH THAT NO MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (360 DEGREES TOTAL) EXIST IN/ON CONDUIT RUN.
- 2. ALL POWER AND CONTROL/INDICATION WIRING SHALL BE TYPE THHN/THWN 800V RATED 75 DEGREES CELSIUS, UNLESS NOTED OTHERWISE.
- CONDUIT BENDS SHALL BE MADE IN ACCORDANCE WITH NEC TABLE 346-10. NO RIGHT З. ANGLE DEVICE OTHER THAN STANDARD CONDUIT ELBOWS WITH 12" MINIMUM INSIDE SWEEPS FOR ALL CONDUITS 2" OR LARGER.
- 4. POWER WIRING SIZE SHALL NOT BE SMALLER THAN #12 AWG
- 5. ALL WIRING SHALL BE COPPER. ALUMINUM WILL NOT BE ACCEPTABLE. ALL POWER CIRCUITS SHALL CONTAIN A GROUND WIRE.
- 6. PHASE MARKINGS TO BE USED AT POWER CONDUCTOR TERMINATIONS.
- 7. CONTRACTOR SHALL ENSURE INTEGRITY IS MAINTAINED WHEN INSTALLING CONDUIT AND WIRING.
- 8. INSTALL PULL STRING IN ALL CONDUIT.
- 9. FOR ROOFTOP INSTALLS AND BUILD-OUTS, CONDUITS INSIDE BUILDING AND ON ROOF SHALL BE RGS, UNLESS OTHERWISE NOTED. FOR RAW LAND SITES AND CO-LOCATES. PVC SCHEDULE 80 SHALL BE UTILIZED UNLESS NOTED OTHERWISE.
- 10. MAINTAIN MINIMUM 1'-0" VERTICAL AND 1'-0" HORIZONTAL SEPARATION FROM ANY MECHANICAL GAS PIPING.
- 11. ALL WIRING ROUTED IN PLENUM TO BE PLENUM RATED OR IN METALLIC FLEX (LIQUIDTITE) CONDUIT.
- 12. INSPECTION WINDOWS ARE REQUIRED ON ALL INDOOR LUGS.

C. EQUIPMENT

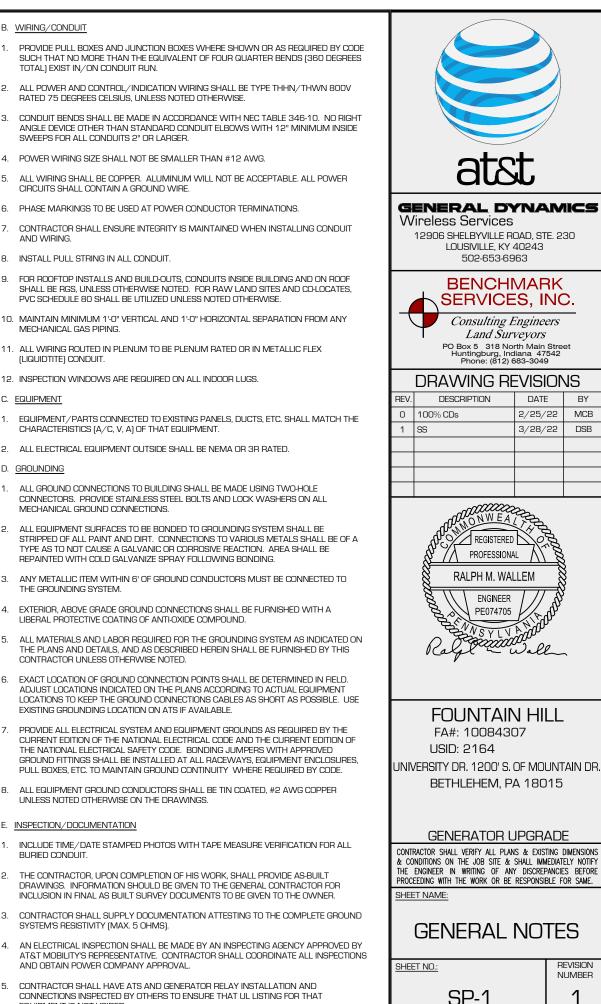
- 1. EQUIPMENT/PARTS CONNECTED TO EXISTING PANELS. DUCTS, ETC, SHALL MATCH THE CHARACTERISTICS (A/C, V, A) OF THAT EQUIPMENT.
- 2. ALL ELECTRICAL EQUIPMENT OUTSIDE SHALL BE NEMA OR 3R RATED.

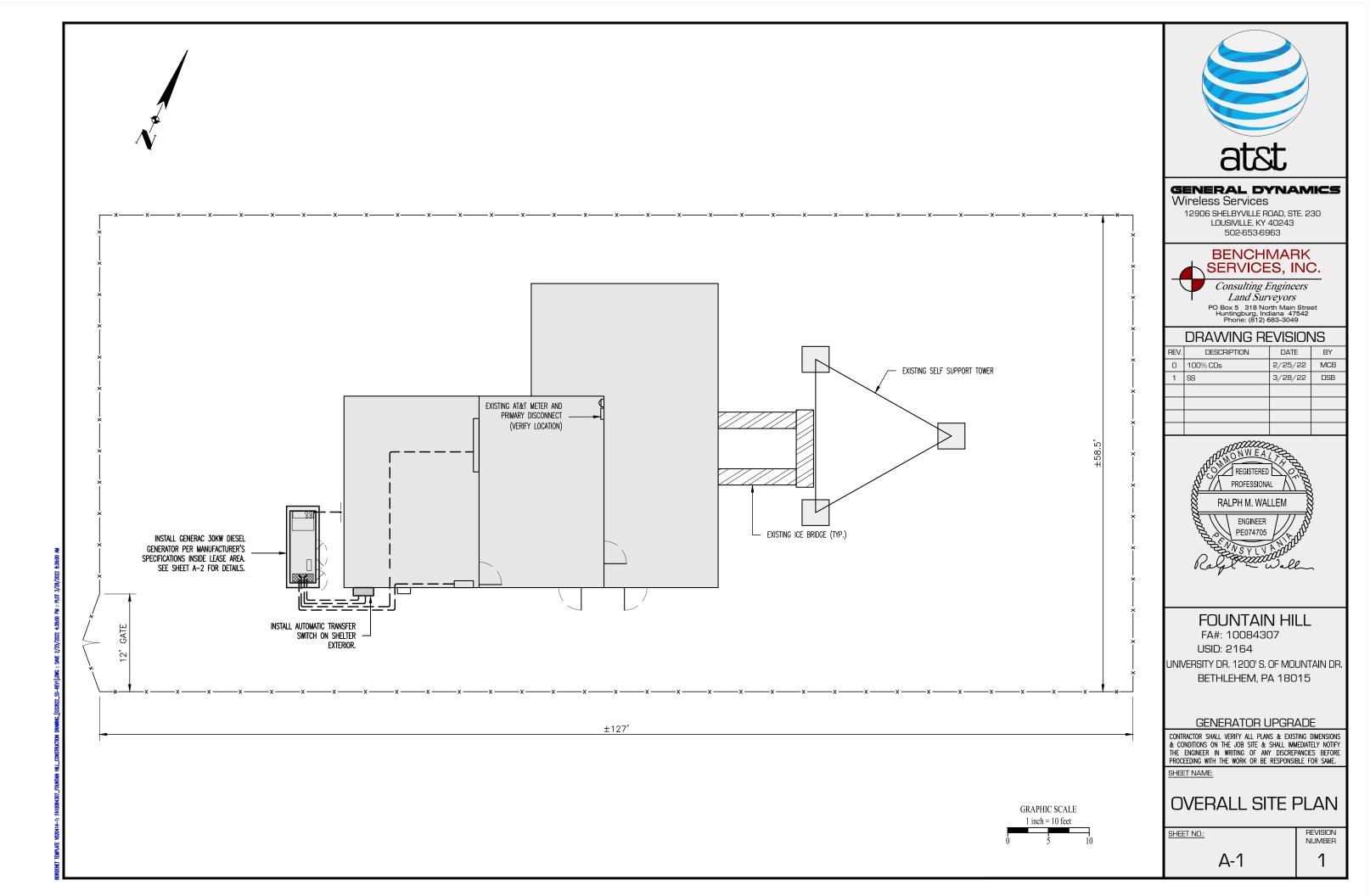
D. GROUNDING

- 1. ALL GROUND CONNECTIONS TO BUILDING SHALL BE MADE USING TWO-HOLE CONNECTORS. PROVIDE STAINLESS STEEL BOLTS AND LOCK WASHERS ON ALL MECHANICAL GROUND CONNECTIONS
- 2. ALL EQUIPMENT SURFACES TO BE BONDED TO GROUNDING SYSTEM SHALL BE STRIPPED OF ALL PAINT AND DIRT. CONNECTIONS TO VARIOUS METALS SHALL BE OF A TYPE AS TO NOT CAUSE A GALVANIC OR CORROSIVE REACTION. AREA SHALL BE REPAINTED WITH COLD GALVANIZE SPRAY FOLLOWING BONDING.
- 3. ANY METALLIC ITEM WITHIN 6' OF GROUND CONDUCTORS MUST BE CONNECTED TO THE GROUNDING SYSTEM.
- 4. EXTERIOR, ABOVE GRADE GROUND CONNECTIONS SHALL BE FURNISHED WITH A LIBERAL PROTECTIVE COATING OF ANTI-OXIDE COMPOUND.
- ALL MATERIALS AND LABOR REQUIRED FOR THE GROUNDING SYSTEM AS INDICATED ON THE PLANS AND DETAILS, AND AS DESCRIBED HEREIN SHALL BE FURNISHED BY THIS CONTRACTOR UNLESS OTHERWISE NOTED.
- 6. EXACT LOCATION OF GROUND CONNECTION POINTS SHALL BE DETERMINED IN FIELD. ADJUST LOCATIONS INDICATED ON THE PLANS ACCORDING TO ACTUAL EQUIPMENT LOCATIONS TO KEEP THE GROUND CONNECTIONS CABLES AS SHORT AS POSSIBLE. USE EXISTING GROUNDING LOCATION ON ATS IF AVAILABLE.
- 7. PROVIDE ALL ELECTRICAL SYSTEM AND EQUIPMENT GROUNDS AS REQUIRED BY THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE AND THE CURRENT EDITION OF THE NATIONAL ELECTRICAL SAFETY CODE. BONDING JUMPERS WITH APPROVED GROUND FITTINGS SHALL BE INSTALLED AT ALL RACEWAYS, EQUIPMENT ENCLOSURES, PULL BOXES, ETC. TO MAINTAIN GROUND CONTINUITY WHERE REQUIRED BY CODE.
- 8. ALL EQUIPMENT GROUND CONDUCTORS SHALL BE TIN COATED, #2 AWG COPPER UNLESS NOTED OTHERWISE ON THE DRAWINGS.

E. INSPECTION/DOCUMENTATION

- 1. INCLUDE TIME/DATE STAMPED PHOTOS WITH TAPE MEASURE VERIFICATION FOR ALL BUBIED CONDUIT
- DRAWINGS. INFORMATION SHOULD BE GIVEN TO THE GENERAL CONTRACTOR FOR INCLUSION IN FINAL AS BUILT SURVEY DOCUMENTS TO BE GIVEN TO THE OWNER.
- 3. CONTRACTOR SHALL SUPPLY DOCUMENTATION ATTESTING TO THE COMPLETE GROUND SYSTEM'S RESISTIVITY (MAX. 5 OHMS).
- AT&T MOBILITY'S REPRESENTATIVE. CONTRACTOR SHALL COORDINATE ALL INSPECTIONS AND OBTAIN POWER COMPANY APPROVAL.
- 5. CONTRACTOR SHALL HAVE ATS AND GENERATOR RELAY INSTALLATION AND CONNECTIONS INSPECTED BY OTHERS TO ENSURE THAT UL LISTING FOR THAT EQUIPMENT IS NOT VOIDED.





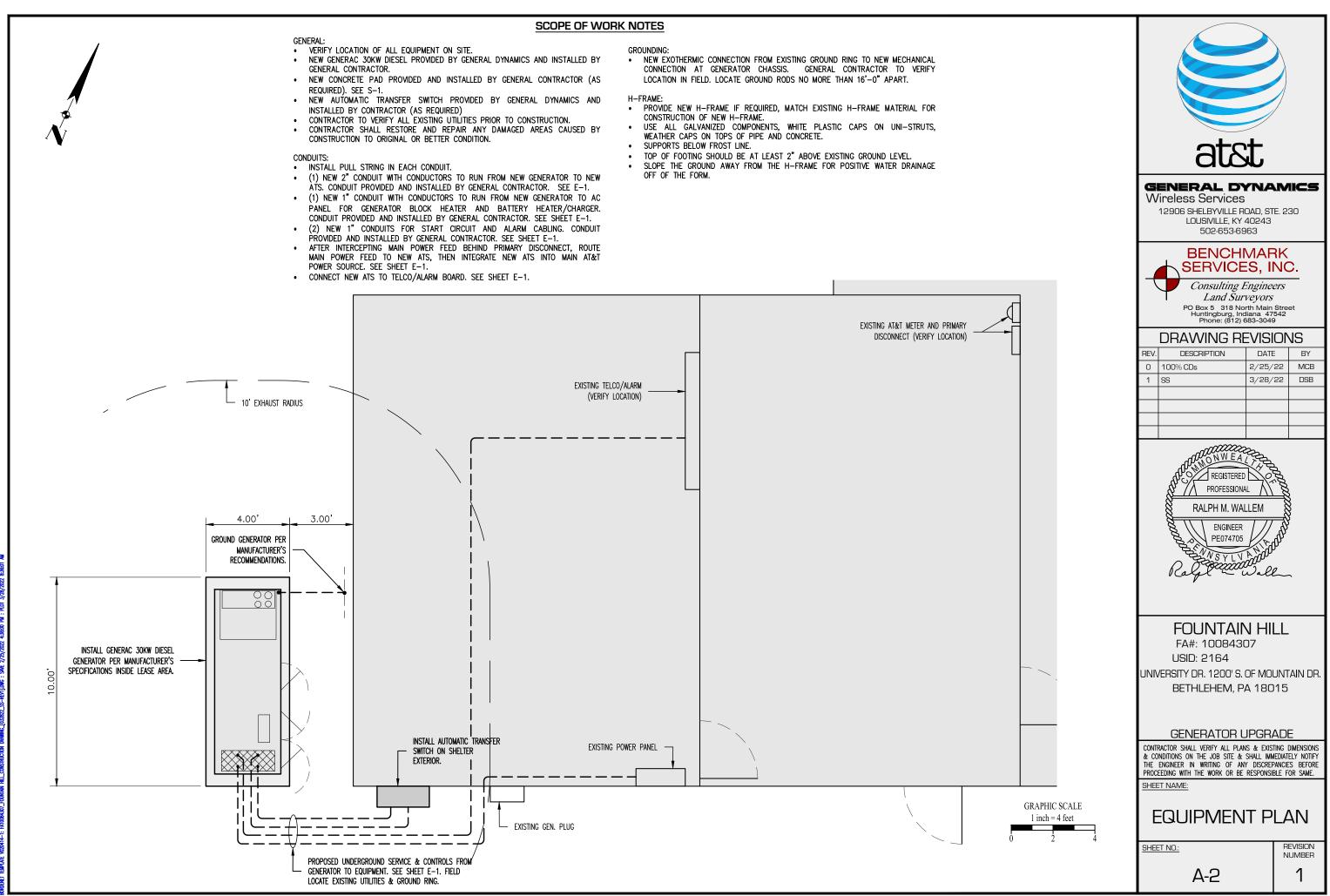


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STRUCTURAL GENERAL NOTES

GENERAL CONDITIONS 1.0

- DESIGN AND CONSTRUCTION OF ALL WORK SHALL CONFORM TO LOCAL BUILDING CODES, ACI 318–11. IN CASE OF CONFLICT BETWEEN THE CODES, STANDARDS, 11 SPECIFICATIONS, GENERAL NOTES AND/OR MANUFACTURER'S REGULATIONS. REQUIREMENTS.USE THE MOST STRINGENT PROVISIONS.
- IT IS THE EXPRESS INTENT OF PARTIES INVOLVED IN THIS PROJECT THAT THE 1.2 CONTRACTOR OR SUBCONTRACTOR OR INDEPENDENT CONTRACTOR OR THE RESPECTIVE EMPLOYEES SHALL EXCULPATE THE ARCHITECT, THE ENGINEER, TECH. CONSTRUCTION MANAGER, THE OWNER, AND THEIR AGENTS FROM ANY LIABILITY WHATSOEVER AND 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 CONNECTION WITH THE WORK.
- DO NOT SCALE DRAWINGS.
- VERIFY ALL EQUIPMENT MOUNTING DIMENSIONS PER MANUFACTURER DRAWINGS 1.4
- 1.5
- DESIGN LOAD: 250 PSF DISTRIBUTED LIVE LOAD FOR DESIGN AND ANALYSIS OF THE FOUNDATION, THE MINIMUM NET SOIL BEARING 2.0 CAPACITY SHALL BE ASSUMED TO BE 2000 PSF.
- 3.0 CONCRETE 3.1

CONCILLE	
MEET OR EXCEED THE	FOLLOWING CODES AND STANDARDS:
DESIGN:	ACI 318-11
CONSTRUCTION:	ACI 301
DETAILING:	CRSI MANUAL OF STANDARD PRACTICE
REINF. STEEL:	ASTM A1064
MIXING:	ASTM C 94. READY MIX CONCRETE
AIR ENTRAINMENT:	ACI 318 AND ASTM C-260
ACCRECATE	ASTM C 33 AND C 330 (FOR LIGHT WEIGH

ASTM C 33 AND C 330 (FOR LIGHT WEIGHT) CONCRETE STRENGTH AT 28 DAYS SHALL BE 4000 PSI MINIMUM.

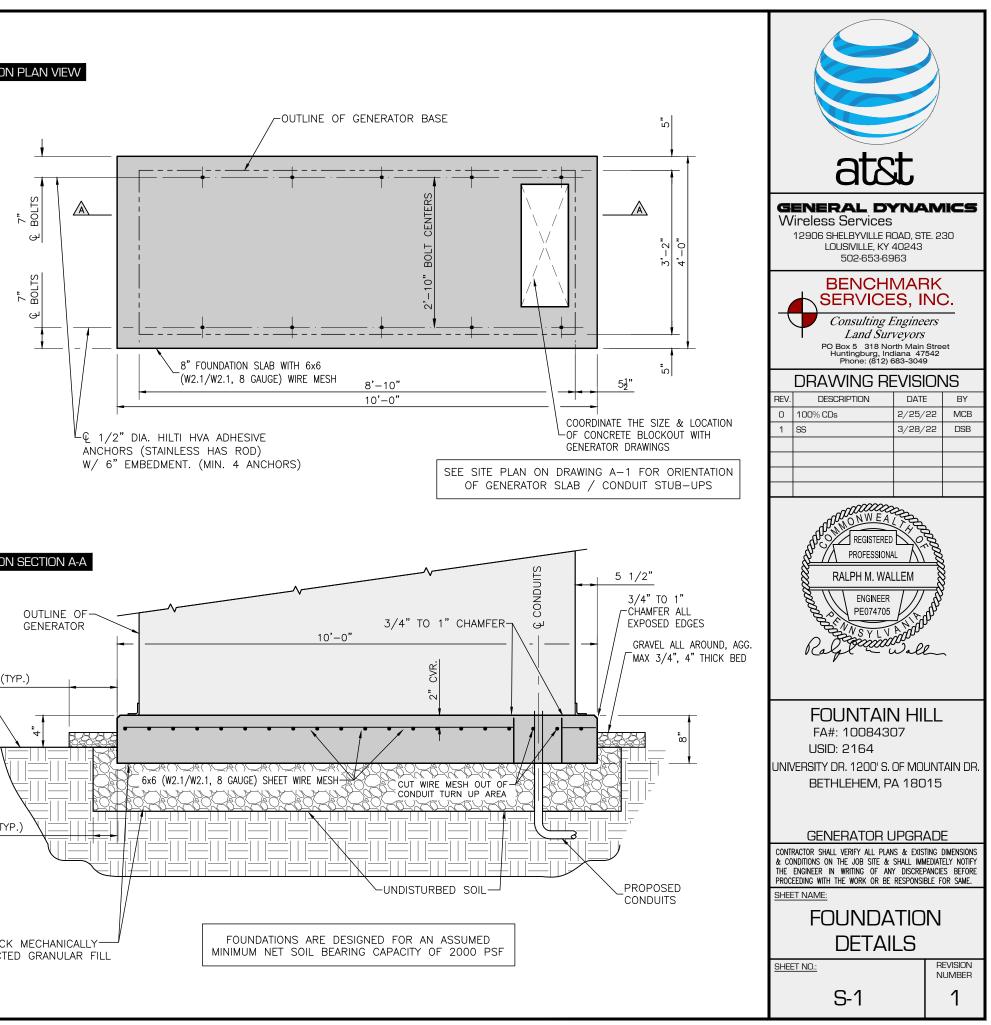
- 3.3 PROVIDE AIR ENTRAINED CONCRETE WITH AIR CONTENT OF 5 TO 7% FOR ALL CONCRETE EXPOSED TO EARTH OR WEATHER.
- MAXIMUM AGGREGATE SIZE: 3/4*
- 3.5 DO NOT USE IN ADMIXTURE, WATER OR OTHER CONSTITUENTS OF CONCRETE WHICH HAS CALCIUM CHLORIDE.
- MINIMUM COVER FOR REINFORCING STEEL SHALL BE AS SHOWN ON PLAN. 36
- FOUNDATION AND EXCAVATION NOTES 40
- 4.1 SLAB SHALL BE CONSTRUCTED UPON UNDISTURBED, NATURAL SUBGRADE OR COMPACTED GRANULAR FILL WITH AN ASSUMED MINIMUM NET ALLOWABLE BEARING CAPACITY OF 2000 PSF
- ALL ORGANIC AND / OR OTHER UNSUITABLE MATERIAL SHALL BE REMOVED FROM FOUNDATION AND SLAB SUBGRADE AND BACKFILL AREAS, AND THEN BACKFILLED WITH 4.2 ACCEPTABLE GRANULAR FILL COMPACTED TO 95 PERCENT OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT (ASTM D1557).
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES TO PREVENT ANY WATER 4.3 FROST, OR ICE FROM PENETRATING ANY FOOTING OR STRUCTURAL SUBGRADE BEFORE AND AFTER PLACING OF CONCRETE, AND UNTIL SUCH CONCRETE HAS FULLY CURED.

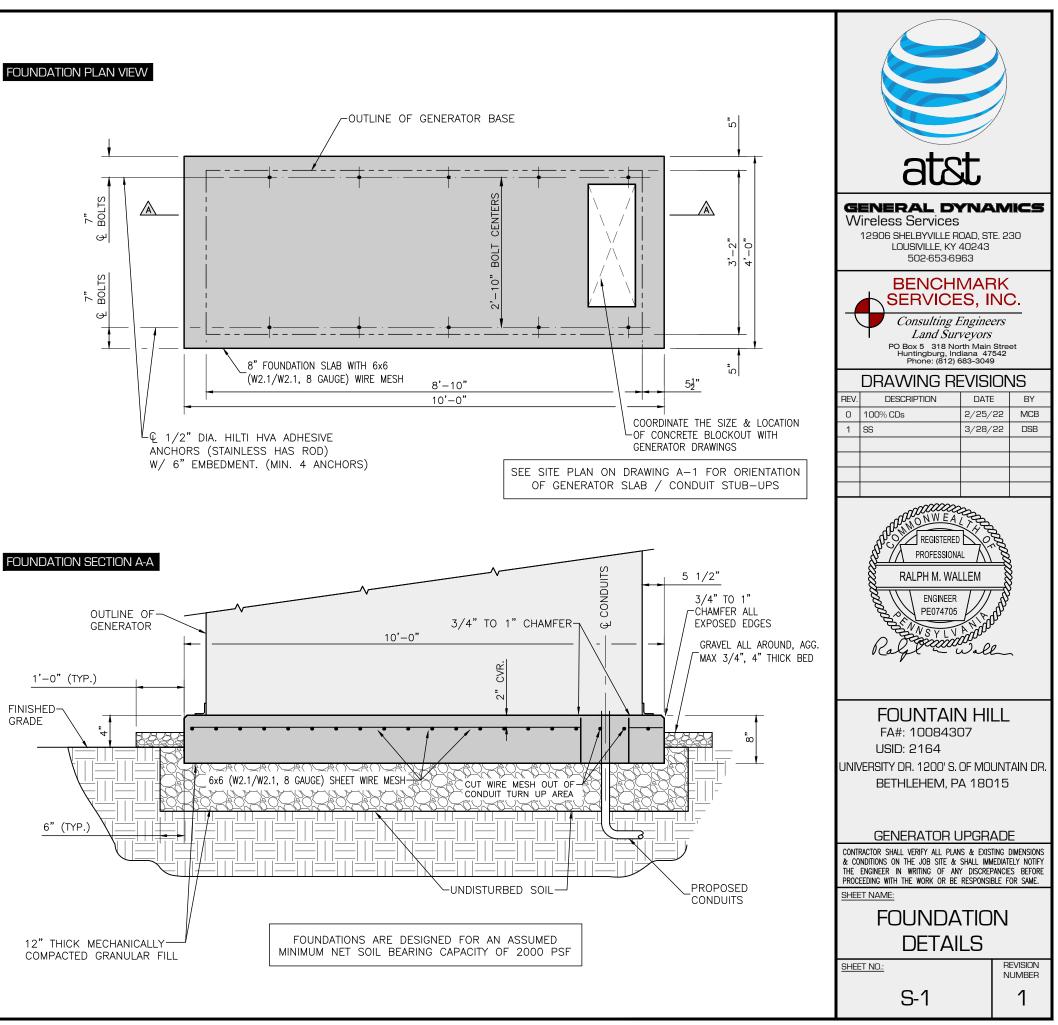
DOUBLE WALL FUEL TANK BASE SPECIFICATION

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 AND COMBUSTIBLE LIQUIDS CODE, NFPA 30; THE STANDARD FOR INSTALLATION AND USE OF STATIONARY COMBUSTIBLE ENGINE AND GAS TURBINES, NFPA 37; AND THE STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS, NFPA 110.
- ANCHORS MINIMUM (4) @ 5/8" FOR GEN-SET MOUNTING
- SUB BASE TANK TESTING: PRIMARY TANK AND 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.

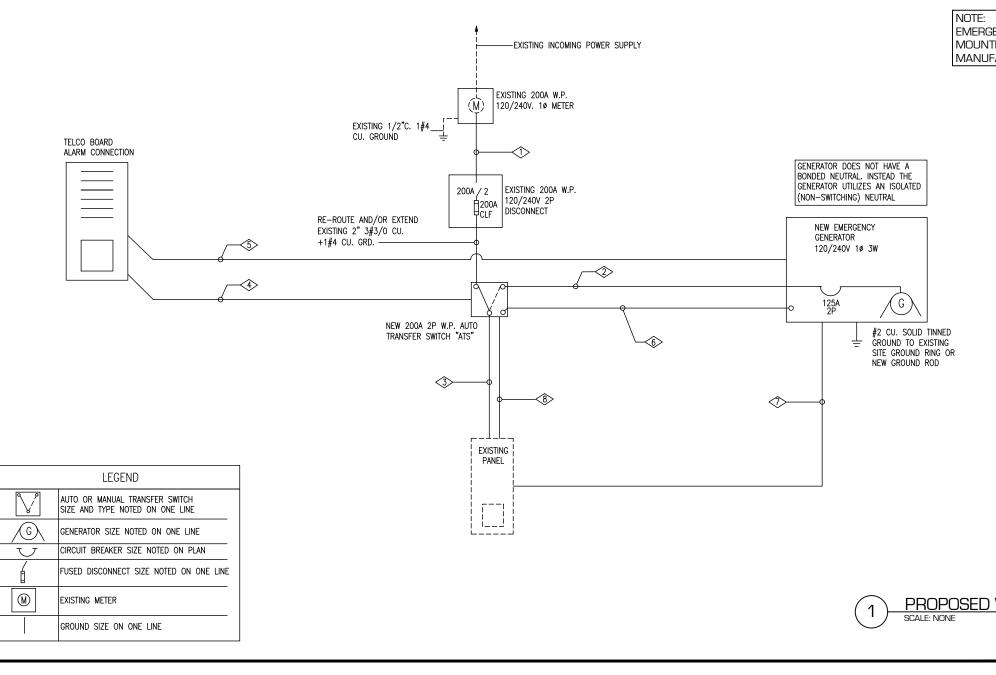




NOTE: VERIFY LOCATION OF ALL EQUIPMENT ON SITE

COLOR CODE CHART					
Pair #	Colors	AT&T Nomenclature	GenDyn cards nomenclature		
1 Blue White		Generator Rupture Basin	Critical Failure		
	White				
2	Orange White	Generator Overfill	Fuel Leak/Overflow		
	White				
3	Green White	Generator Running	Generator Running		
	White				
4	Brown White	Generator Low Fuel	Low Fuel		
	White				
5	Slate White	Generator Shutdown	Major Fault		
White					
6	Red Blue	Generator Common	Minor Fault		
	Red				
7	BLUE WHITE WHITE	Commercial Power Fail	Commercial Power Fail		
	white	Commercial Power Fail	Commercial Power Fail		

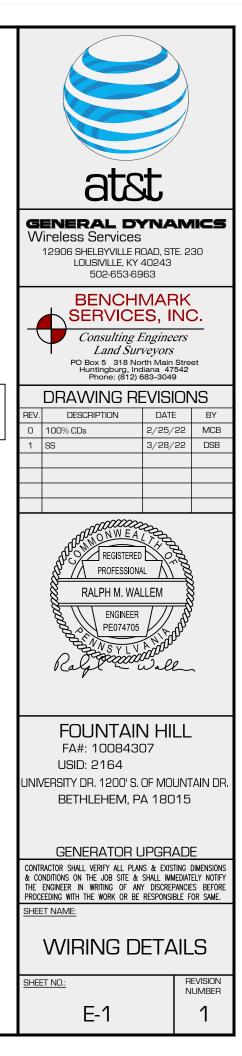
	DIAGRAM CIRCUIT SCHEDULE					
NO.	FROM	то	WIRES	GROUND	CONDUIT SIZE	FUNCTION
1	METER	ATS	(3) # 3/0	(1) #4	2"	POWER FEED
2	ATS	GEN.	(3) #1/0	(1) #4	2"	POWER FEED
3	ATS	PNL	(3) #3/0	(1) #4	2"	POWER FEED
4	ATS	TELCO BOARD	12 PAIR 24 AWG	N/A	1"	ALARM CABLES
5	GEN	TELCO BOARD	12-PAIR 24 AWG	N/A	1"	ALARM CABLES
6	ATS	GEN	(2) #14	N/A	1"	START CIRCUIT
7	PANEL	GEN	(4) #12	(2) #12	1″	2—20 AMP CIRCUITS FOR (1) Gen. Block heater and Battery charger
8	PANEL	ATS	(2) #12	(1) #12	1"	20 AMP CIRCUIT FOR ATS POWER

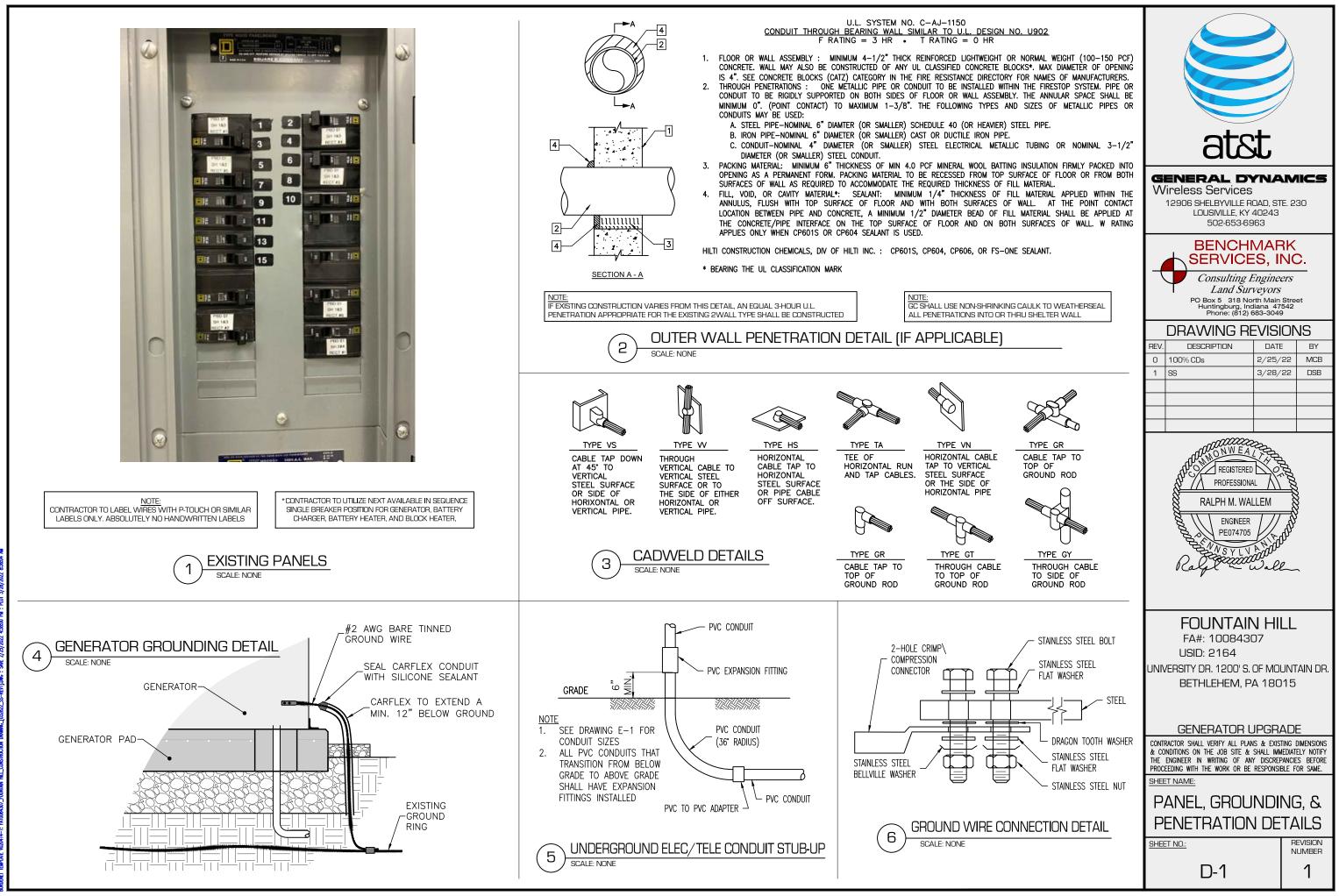


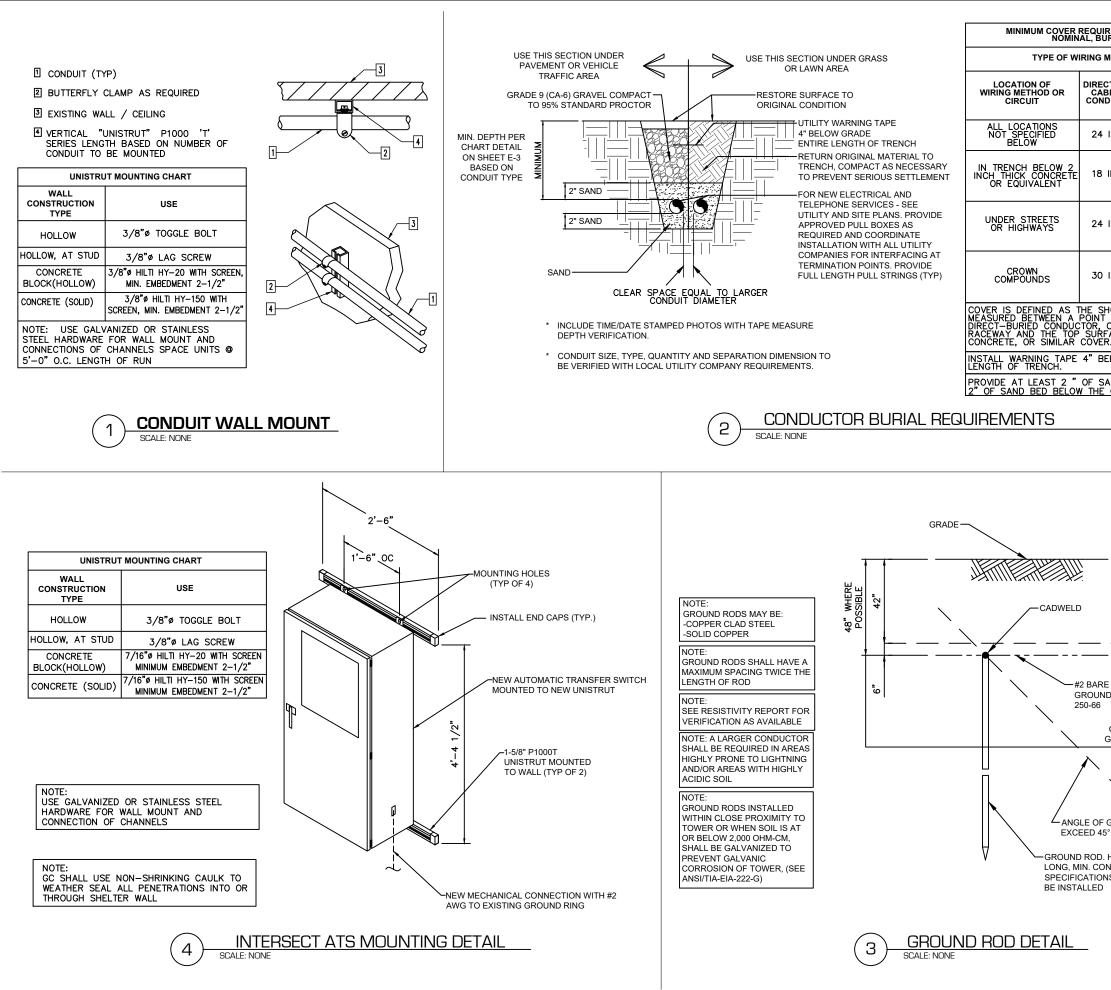
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'	

EMERGENCY STOP BUTTON SHALL BE MOUNTED AND WIRED PER MANUFACTURER'S SPECIFICATIONS









tenevee vecont+1: fatoraxov_contran hellociton dramae_[osses2 ss-rev1]dwg : Safe 2/25/2022 4:38600 pm : plot 3/28/2022 4:38600 pm

QUIREMENTS, 0 TO 600 VOLTS, , BURIAL IN INCHES						
RECT BURIAL CABLES OR CONDUCTORS	RIGID METAL CONDUIT OR INTERMEDIATE METAL CONDUIT					
24 INCHES	6 INCHES					
18 INCHES	6 INCHES		at	SP		
24 INCHES	24 INCHES		Incless Servic (ireless Servic) 12906 SHELBYVILL LOUSIVILLE, 502-653	:es _e Road, st Ky 40243		
30 INCHES	30 INCHES).
SHORTEST [INT ON THE IR, CABLE, CO URFACE OF F IVER.	DISTANCE IN INCHES TOP SURFACE OF ANY DIDUIT, OR OTHER INISHED GRADE,	-(ng Engine Surveyors 3 North Main 9, Indiana 47 12) 683-3049	,	t
' BELOW GRAI	DE FOR THE ENTIRE		DRAWING			
SAND BED	ABOVE CONDUIT AND	REV.	DESCRIPTION			BY
		0	100% CDs	2/25/	22	MCB
		1	SS	3/28/	22	DSB
		_				
	FROST LINE DLID OR LARGER		RALPH M. PROFESS RALPH M. ENGIN PEO74	SIONAL WALLEM		
66 GROUND F GREATEST	RING SHALL BE INSTALLED AT DEPTH POSSIBLE AND BELOV ANENT MOISTURE LEVEL		FOUNTA FA#: 10084 USID: 2164 VERSITY DR. 1200 BETHLEHEM	4307 '' S. OF MO	UNTA	AIN DR.
OF GROUND R	OD SHALL NOT		GENERATO			
O 45 OD. HARGER 5810 OR EQUAL 5/8"Ø x 8'-0" CONTRACTOR SHALL VERIFY WITH OWNER FIONS FOR MINIMUM SIZE OF GROUND ROD TO ED			Ractor shall verify all onditions on the Job Sit Engineer in Writing of Eeding With the Work of Et NAME:	E & SHALL IMM [™] ANY DISCREF	iediatei Pancies	LY NOTIFY BEFORE
			TS, CONDL GROUND F			
			et no.:		RE	VISION
			D-2		NL	IMBER 1



Standby Power Rating 30 kW, 38 kVA, 60 Hz

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



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

Codes and Standards

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





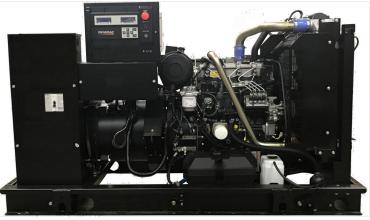


Image used for illustration purposes only

Powering Ahead

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

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

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

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

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

2.2L SD030 | 30 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

STANDARD FEATURES

ENGINE SYSTEM

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

Fuel System

- Fuel Lockoff Solenoid
- Primary Fuel Filter

Cooling System

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

Electrical System

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

CONTROL SYSTEM



Digital H Control Panel- Dual 4x20 Display

Program Functions

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

UL2200 GENprotect[™] Class H Insulation Material

2/3 Pitch

ALTERNATOR SYSTEM

- Skewed Stator
- Brushless Excitation
- Sealed Bearing
- Rotor Dynamically Spin Balanced Amortisseur Winding (3-Phase Only)
- Full Load Capacity Alternator
- Protective Thermal Switch

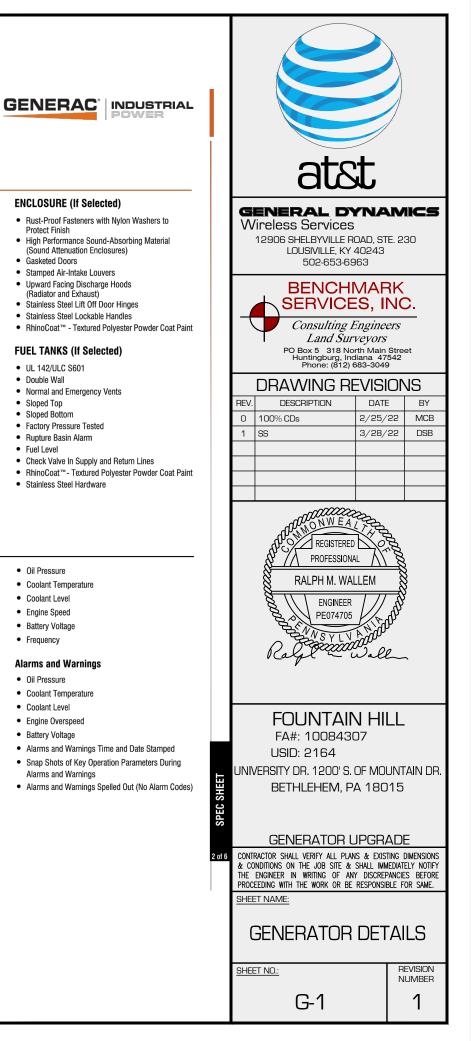
GENERATOR SET

- Internal Genset Vibration Isolation
- Separation of Circuits High/Low Voltage
- Separation of Circuits Multiple Breakers
- Wrapped Exhaust Piping
- Standard Factory Testing
- 2 Year Limited Warranty (Standby Rated Units)
- 1 Year Limited Warranty (Prime Rated Units)
- Silencer Mounted in the Discharge Hood (Enclosed Unit Only)

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

Full System Status Display

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



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

Level 2 Sound Attenuation with Motorized Dampers

 $\circ~$ Up to 200 MPH Wind Load Rating (Contact Factory

○ Shunt Trip and Auxiliary Contact

Electronic Trip Breakers

Weather Protected Enclosure

AC/DC Enclosure Lighting Kit

Level 1 Sound Attenuation

Level 2 Sound Attenuation

ENCLOSURE

Steel Enclosure

for Availability)

Door Alarm Switch

Damper Alarm Contacts

Enclosure Heater

Aluminum Enclosure

2nd Main Line Circuit Breaker

- - Remote Communication Modem

- 8 in (203.2 mm) Fill Extension
- 19 in (482.6 mm) Fill Extension

- Fuel Level Switch and Alarm
- 12' Vent System
 - Fire Rated Stainless Steel Fuel Hose

SD030 | 2.2L | 30 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General		Cooling System	
Make	Perkins	Cooling System Type	Closed Recovery
EPA Emissions Compliance	Stationary Emergency	Water Pump Type	Pre-Lubed, Self Sealing
EPA Emissions Reference	See Emission Data Sheet	Fan Type	Pusher
Cylinder #	4	Fan Speed - RPM	1,980
Туре	In-Line	Fan Diameter - in (mm)	18 (457)
Displacement - in ³ (L)	135 (2.22)		
Bore - in (mm)	3.3 (84)	Fuel System	
Stroke - in (mm)	3.9 (100)	Fuel Type	Ultra Low Sulfur Diesel Fuel #2
Compression Ratio	23.3:1	Fuel Specifications	ASTM
Intake Air Method	Turbocharged	Fuel Filtering (Microns)	5
Cylinder Head	Cast Iron	Fuel Inject Pump	Distribution Injection Pump
Piston Type	Aluminum	Fuel Pump Type	Engine Driven Gear
Crankshaft Type	Forged Steel	Injector Type	Mechanical
		Fuel Supply Line - in (mm)	0.31 (7.9) ID
Engine Governing		Fuel Return Line - in (mm)	0.2 (4.8) ID
Governor	Electronic Isochronous		
Frequency Regulation (Steady State)	±0.5%	Engine Electrical System	
		System Voltage	12 VDC
Lubrication System		Battery Charger Alternator	Standard
Oil Pump Type	Gear	Battery Size	See Battery Index 0161970SBY
Oil Filter Type	Full-Flow	Battery Voltage	12 VDC
Crankcase Capacity - gt (L)	11.2 (10.6)	Ground Polarity	Negative

ALTERNATOR SPECIFICATIONS

Standard Model	K0035124Y21	Standard Excitation	Brushless
Poles	4	Bearings	Single Sealed
Field Type	Revolving	Coupling	Direct via Flexible Disc
Insulation Class - Rotor	Н	Load Capacity - Standby	100%
Insulation Class - Stator	Н	Prototype Short Circuit Test	Yes
Total Harmonic Distortion	<5% (3-Phase)	Voltage Regulator Type	Digital
Telephone Interference Factor (TIF)	< 50	Number of Sensed Phases	All
		Regulation Accuracy (Steady State)	±0.25%

GENERAC INDUSTRIAL

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
- 10A Engine Run Relay

FUEL TANKS (Size On Last Page)

- 13 in (330.2 mm) Fill Extension
- Overfill Protection Valve
- O 5 Gallon Spill Box Return Hose
- 5 Gallon Spill Box
- Tank Risers

- - FUEL TANKS
 - UL2085 Tank
 - Stainless Steel Tanks
 - Special Fuel Tanks
 - Vent Extensions

• 5 Year Extended Limited Warranty O 7 Year Extended Limited Warranty 10 Year Extended Limited Warranty

ALTERNATOR SYSTEM

3rd Breaker System

GENERATOR SET

Special Testing

O 2 Year Extended Limited Warranty 5 Year Limited Warranty

WARRANTY (Standby Gensets Only)



		<u>لل</u>							
	GENERAL DY Wireless Services 12906 SHELBYVILLE R LOUSIVILLE, KY 502-653-69	0AD, ST 40243		,					
				-					
	Consulting E Land Sur PO Box 5 318 No Huntingburg, Inc Phone: (812) 6	veyors		t					
	DRAWING RE								
	REV. DESCRIPTION	DATE		BY					
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	FOUNTAIN								
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	USID: 2164								
	UNIVERSITY DR. 1200' S.			AIN DR.					
	BETHLEHEM, PA	A 180	15						
	GENERATOR L	J <u>PG</u> R/	<u>AD</u> E						
6	CONTRACTOR SHALL VERIFY ALL PLAN & CONDITIONS ON THE JOB SITE &								
	THE ENGINEER IN WRITING OF AN PROCEEDING WITH THE WORK OR BE	Y DISCREF	PANCIES	BEFORE					
	SHEET NAME:								
	GENERATOR	DET	All	S					
	SHEET NO.:								
	0.0		NU	MBER					
	G-2								

SD030 | 2.2L | 30 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

OPERATING DATA

POWER RATINGS

Standby		
30 kW	Amps: 125	
30 kW	Amps: 104	
30 kW	Amps: 90	
30 kW	Amps: 45	
30 kW	Amps: 36	
	30 kW 30 kW 30 kW	

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*

COOLING

Fuel Pump Lift- ft (m)
3 (1)
Total Fuel Pump Flow (Combustion + Return) - gph (Lph)
16.6 (63)

Fuel Pump Flow (Combustion + Return) - gph (Lph)	75%	2.0 (7.5)
16.6 (63)	100%	2.8 (10.5)
	* Fuel supply installation must accommodate fu consumption rates at 100% load.	
		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 (m ³ /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 Pow	ver scfm (m³/min)	88 (2.5)		
ENGINE			EXHAUST			
		Standby				Standby
Rated Engine Speed	RPM	1,800	Exhaust Flow (I	Rated Output)	scfm (m ³ /min)	296.6 (8.4)
Horsepower at Rated kW**	hp	49	Max. Allowable	Backpressure (Post Turbocharger)	inHg (kPa)	1.5 (5.1)
Piston Speed	ft/min (m/min)	1,181 (360)	Exhaust Temp	(Rated Output)	°F (°C)	892 (478)
BMEP	psi (kPa)	159 (1,096)				

** 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



Diesel - gph (Lph)

Standby

1.0 (3.7)

1.4 (5.2)

Percent Load

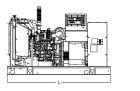
25%

50%

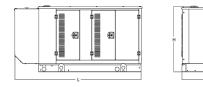
SD030 | 2.2L | 30 kW **INDUSTRIAL DIESEL GENERATOR SET**

EPA Certified Stationary Emergency

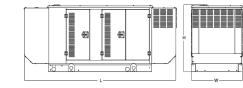
DIMENSIONS AND WEIGHTS*



OPEN S	ET (Include	es Exhaust Flex)
Run Time - Hours	Usable Capacity - Gal (L)	L×W×
o Tank	-	76.0 (1,930) x 37.
19	54 (204)	76.0 (1,930) x 37.
47	122 (501)	76.0 (1.020) v 27



Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)		eight s (kg)
No Tank	-	76.0 (1,930) x 37.4 (950) x 44.8 (1,138)	1,64	1 (745)
19	54 (204)	76.0 (1,930) x 37.4 (950) x 57.8 (1,468)	2,12	1 (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)
WEATH	ER PROTEC	TED ENCLOSURE		
Run	Usable			t - Ibs (kg) sure Only
		TED ENCLOSURE L x W x H - in (mm)		
Run Time	Usable Capacity		Enclo	sure Only
Run Time - Hours	Usable Capacity	L x W x H - in (mm)	Enclo: Steel	sure Only Aluminum
Run Time - Hours No Tank	Usable Capacity - Gal (L) -	L x W x H - in (mm) 94.8 (2,409) x 38.0 (965) x 49.5 (1,258)	Enclos Steel - - 372	sure Only Aluminum 241
Run Time - Hours No Tank 19	Usable Capacity - Gal (L) - 54 (204)	L x W x H - in (mm) 94.8 (2,409) x 38.0 (965) x 49.5 (1,258) 94.8 (2,409) x 38.0 (965) x 62.5 (1,588)	Enclo: Steel	sure Only Aluminum



LEVEL 1 ACOUSTIC ENCLOSURE

Run Time - Hours	Usable Capacity	L x W x H - in (mm)		t - Ibs (kg) sure Only
- Hours	- Gal (L)		Steel	Aluminum
No Tank	-	112.5 (2,857) x 38.0 (965) x 49.5 (1,258)		
19	54 (204)	112.5 (2,857) x 38.0 (965) x 62.5 (1,582)	505	000
47	132 (501)	112.5 (2,857) x 38.0 (965) x 74.5 (1,893)	505 (230)	338 (154)
75	211 (799)	112.5 (2,857) x 38.0 (965) x 86.5 (2,198)	(200)	(134)
107	300 (1,136)	112.5 (2,857) x 38.0 (965) x 86.5 (2,198)		

LEVEL 2 ACOUSTIC ENCLOSURE				
Run Time - Hours	Usable Capacity	L x W x H - in (mm)		- Ibs (kg) sure Only
-110015	- Gal (L)		Steel	Aluminum
No Tank	-	94.8 (2,407) x 38.0 (965) x 61.1 (1,551)		
19	54 (204)	94.8 (2,407) x 38.0 (965) x 74.1 (1,881)	540	
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)	(202)	(155)
107	300 (1,136)	94.8 (2,407) x 38.0 (965) x 98.1 (2,491)		

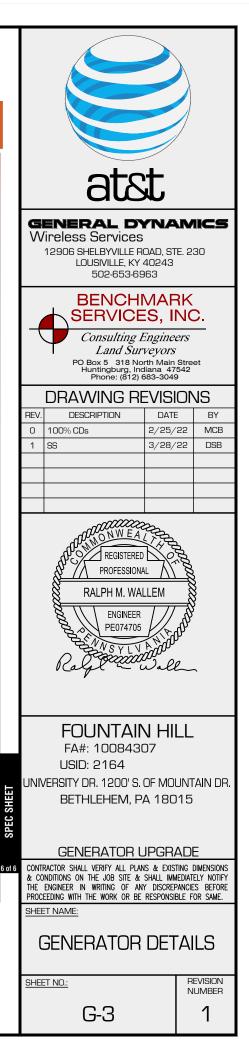
* All measurements are approximate and for estimation purposes only. Specification characteristics may change without notice. Please contact a Generac Power Systems Industrial Dealer for detailed installation drawings.

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



Automatic Transfer Switch

200 Amps Telecom Transfer Switch - TAS200



Model G0063103-120/240V, Two Pole, Single Phase Model G0063113-120/240V, Two Pole, Single Phase with Camlock Component Model G0063123-120/208V, Three Pole, Three Phase Model G0063133–120/208V, Three Pole, Three Phase with Camlock Component



FEATURES

CODES AND STANDARDS



r staa NEMA 250

STANDARD FEATURES

- Flexibility for Multiple Application Installations
- Multiple Generator Support with Three Source Panel
- LCD Display with Mimic Diagram
- Camlock Functionality for Mobile Generator Sources
- Steel Construction
- NEMA 3R Enclosure with Hinged "Padlocking" Doors
- Stainless Steel Hardware
- Camlock "Quick Connect" Capability
- Optional Status View via Controller
- Three-position Test Mode: Fast Test, Auto and Normal Test
- UL1008 Listed
- USB Port for Easy Updates and Data Collection
- Programmable Relay Option

CONFIGURABLE OPTIONS

- Extended Warranty
- Three Phase Voltage Configurations

CONTROLLER INTERFACE

Display

- 2.9 Inch Graphical LCD Indicators
- Standby Operating Indicator Utility Available Indicator
- · Generator/Utility Switch Position Indicator
- Auto/Manual Status
- Normal Test and Fast Test Functions
- Return to Normal Button on HMI
- Beset Button on HMI
- Exercising Indicator Alarm
- Exercise Settings
- Time of Day
- Day of Week Exercise Options
- With or without Load Daily, Weekly, Bi-monthly or Monthly
 Duration: 0 - 10 Hours

Diagnostic

- Digital I/O Bits Status (via Modbus Only)
- Voltage A/D Readings

Mimic Diagram

- Transfer Switch Position
- Utility Available
- Standby Available
- Generator Source TS Position
- USB Port

 Easy Firmware Updates Download Historical Data

Automatic Transfer Switch

Telecom Transfer Switch - TAS200

	120/240 VAC Single Phase (Standard)	
System Voltage/Phases	120/208 VAC Three Phase (Optional)	
	120/240 VAC Three Phase (Optional)	
Utility Fail Monitor		
Drop Out	Over Voltage 105 - 120%	
Diop Out	Under Voltage 50 - 97%	
Dialaun	Over Voltage Drop Out Setting -2%	
Pickup	Under Voltage Drop Out Setting +2%	
Under Frequency	54 - 58 Hz	
Over Frequency	61 - 66 Hz	
Utility Interrupt Delay	0 - 120 Seconds	
Return to Utility Timer	0 - 30 Minutes	
Transfer	Inphase or Time Delay Neutral:	
Tanoioi	0.0 - 120.0 Seconds in 1 Second Increments	
Generator Load Accept		
Voltage	85 - 95% of Nominal	
Frequency	51 - 57 Hz	

ENGINE SETTINGS

Engine Warm-up Time	0 - 30 Minutes	Uses 4 CH E1016 Male
Engine Minimum Run Timer	5 - 30 Minutes	Mating Connector - CH
Engine Cooldown Timer	0 - 30 Minutes	

ELECTRICAL SPECIFICATIONS

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



* 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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200 Amps

SETTINGS

SYSTEM SETTINGS

Over Voltage 105 - 120%	Material
Under Voltage 50 - 97%	Rating
Over Voltage Drop Out Setting -2%	Finish
Under Voltage Drop Out Setting +2%	Listing
54 - 58 Hz	Hardware
 61 - 66 Hz	Mounting Options
0 - 120 Seconds	Installed
0 - 30 Minutes	
Inphase or Time Delay Neutral:	CAMLOCK COM
0.0 - 120.0 Seconds in 1 Second Increments	
L	Shipped Loose for N
85 - 95% of Nominal	Dimensions (W x D x

Rating Generator Connections Single Phase Three Phase

Weight

Construction





	atst			
	GENERAL DYNAMICS Wireless Services 12906 SHELBYVILLE ROAD, STE. 230 LOUSIVILLE, KY 40243 502-653-6963			
	BENCHMARK SERVICES, INC. Consulting Engineers Land Surveyors PO Box 5 318 North Main Street Huntingburg, Indiana 47542 Phone: (812) 683-3049			
	BRAWING REVISI REV. DESCRIPTION DATE 0 100% CDs 2/25/ 1 SS 3/28/ - - -	E BY (22 MCB		
	REGISTERED PROFESSIONAL RALPH M. WALLEM ENGINEER PE074705	P teremon		
ruwen series	FOUNTAIN HI FA#: 10084307 USID: 2164 UNIVERSITY DR. 1200' S. OF MO BETHLEHEM, PA 180	UNTAIN DR.		
of 2	GENERATOR UPGR/ CONTRACTOR SHALL VERIFY ALL PLANS & EXIS & CONDITIONS ON THE JOB SITE & SHALL IMM THE ENGINEER IN WRITING OF ANY DISCREF PROCEEDING WITH THE WORK OR BE RESPONSI SHEET NAME:	TING DIMENSIONS MEDIATELY NOTIFY PANCIES BEFORE BLE FOR SAME.		
	GENERAC ATS DE			
	<u>SHEET NO.:</u> G-4	REVISION NUMBER 1		