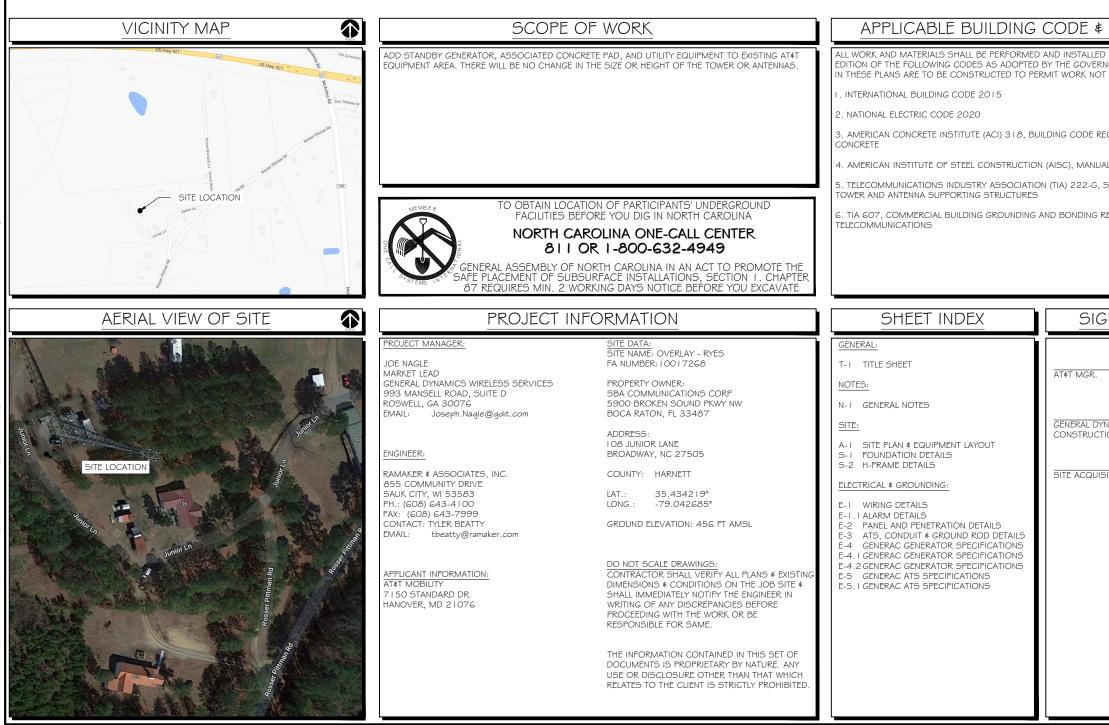


SITE NAME: OVERLAY - RYES FA LOCATION CODE: 10017268 SBA ID: NC01660

GENERATOR PROJECT 30KW GENERAC DIESEL GENERATOR 200A GENERAC ATS

108 JUNIOR BROADWAY,



R LANE NC 2750	5	RAARARER employee-owned (608) 643-4100 www.ramaker.com PREPARED FOR: Attack batatatatatatatatatatatatatatatatatatat
STANDAR	2DS	
IN ACCORDANCE N IING LOCAL AUTHO CONFORMING TO		GENERAL DYNAMICS Information Technology, Inc. GENERAL DYNAMICS 993 MANSELL ROAD, SUITE D ROSWELL, GA 30076
QUIREMENTS FOR	STRUCTURAL	Certification # Seal: I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed
L OF STEEL CONST	RUCTION	Professional Engineer under the laws of the State of <u>North Carolina</u> .
TRUCTURAL STAN	DARDS FOR STEEL	NUT ROFESSION
EQUIREMENTS FOR	2	SEAL 050621
NATURE E	BLOCK	H. ZAV
	DATE	
IAMICS ON MGR.	DATE	
		MARK DATE DESCRIPTION ISSUE PHASE FINAL DATE OG/21/2022
ITION	DATE	PROJECT TITLE: OVERLAY - RYES FA ID # 10017268
		PROJECT INFORMATION: I O8 JUNIOR LANE BROADWAY, NC 27505
		SHEET TITLE:
		TITLE SHEET
		SCALE: NONE
		PROJECT 54948
		SHEET T-I

NOTES	TΟ	SUBCONTRACTOR:
NULL	10	JUDCONTRACTOR:

1. ALL SUB-CONTRACTORS ARE TO SIGN INTO THE LL AND AT&T NOC'S ALONG WITH GD'S APENATE APP BEFORE THE START OF WORK AND END OF WORK EACH DAY. THE AT&T LOGBOOK MUST ALSO BE SIGNED EACH DAY ON SITE. ACCESS IS REQUIRED) 2. ALL ORIGINAL PERMITS MUST BE POSTED ON SITE BEFORE WORK CAN COMMENCE. ALL PERMITS ARE REQUIRED TO BE IN A NOTICEABLE LOCATION FOR REVIEW BY THE PERMITTING TIMES PER MONTH BY AT&T TECHNICIANS. 3. THE GENERAL SUBCONTRACTOR MUST VERIFY ALL DIMENSIONS. CONDITIONS AND ELEVATIONS BEFORE PROCEEDING WITH THE WORK ALL WORK SHALL BE PERFORMED IN A WORKMANI KE MANNER IN ACCORDANCE WITH ACCEPTED CONSTRUCTION PRACTICES. THE PROJECT SPECIFICATIONS 4. IT IS THE INTENTION OF THESE DRAWINGS TO SHOW THE COMPLETED INSTALLATION. THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY BRACING, SHORING, TIES, FORM WORK, ETC. IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL ORDINANCES, TO SAFELY CONSTRUCTION OPERATION. EXECUTE ALL WORK AND SHALL BE RESPONSIBLE FOR SAME. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES REQUIRED FOR CONSTRUCTION. THE SUBCONTRACTOR SHALL USE ADEQUATE NUMBER OF SKILLED WORKMAN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND METHOD NEEDED FOR PROPER PERFORMANCE ELECTRICAL NOTES: A. GENERAL 6. CONSTRUCTION SUBCONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION SUBCONTRACTOR WILL BE REQUIRED TO ASSUME BOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND CONSTRUCTION SUBCONTRACTOR FURTHER AGREES TO INDEMNIFY AND HOLD DESIGN ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH PERFORMANCE OF WORK ON THIS PROJECT. BE DETERMINED IN THE FIELD . SITE GROUNDING SHALL COMPLY WITH AT&T WIRELESS SERVICES TECHNICAL SPECIFICATIONS FOR FACILITY GROUNDING FOR CELL SITE STANDARDS, LATEST EDITION, AND COMPLY WITH AT&T TOWERS GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN. GROUNDING SHALL BE COMPLETED BEFORE ERECTION OF TOWER. 3. ALL WORK SHALL COMPLY WITH OSHA AND STATE SAFETY REQUIREMENTS. PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION, IF TEMPORARY LIGHTING AND MARKING IS REQUIRED BY THE FEDERAL AVIATION ADMINISTRATION (FAA), IT IS THE SUBCONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE NECESSARY LIGHTS AND NOTIFY THE PROPER AUTHORITIES IN THE EVENT OF A PROBLEM. 9. 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 SERVICE DISCREPANCIES OR DIFFERENCES IN THE CODE REQUIREMENTS. O. ANY DAMAGE TO THE ADJACENT PROPERTIES WILL BE CORRECTED AT THE SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE LANDOWNER AND THE ENGINEER. I. THE COMPLETE BID PACKAGE INCLUDES THESE CONSTRUCTION DRAWINGS ALONG WITH THE AND REGULATIONS SPECIFICATIONS. SUBCONTRACTOR IS RESPONSIBLE FOR REVIEW OF TOTAL BID PACKAGE PRIOR. TO BID SUBMITTAL. 2. SUBCONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES WITHIN CONSTRUCTION LIMITS PRIOR TO CONSTRUCTION. 1.3 THE SUBCONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE ON THE SITE AT ALL TIMES SILT AND FROSION CONTROL SHALL BE MAINTAINED ON THE DOWNSTREAM SIDE OF THE SITE AT ALL TIMES. ANY DAMAGE TO ADJACENT PROPERTIES WILL BE CORRECTED AT THE SUBCONTRACTOR'S EXPENSE I 4. 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 ETL (ELECTRICAL TESTING LABORATORY) DAMAGE TO THE PROPERTY OUTSIDE THE LEASED PROPERTY SHALL BE REPAIRED BY THE ICEA (INSULATED CABLE ENGINEERS ASSOCIATION) 15 ALL SUITABLE BORROW MATERIAL FOR BACK FUL OF THE SITE SHALL BE INCLUDED IN THE BID. EXCESS TOPSOIL AND UNSUITABLE MATERIAL SHALL BE DISPOSED OF OFF SITE AT LOCATIONS APPROVED BY GOVERNING AGENCIES PRIOR TO DISPOSAL. UL (UNDERWRITER'S LABORATORY) I.G. SEEDING AND MULCHING OF THE SITE WILL BE ACCOMPLISHED AS SOON AS POSSIBLE AFTER COMPLETION OF THE SITE DEVELOPMENT. THE SUBCONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAIN AN ADEQUATE COVER OF VEGETATION OVER THE SITE FOR A ONE YEAR

17. PERMITS: THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND INCURRING THE COST OF ALL REQUIRED PERMITS. INSPECTIONS. CERTIFICATES. ETC.

8. RECORD DRAWINGS: MAINTAIN A RECORD OF ALL CHANGES, SUBSTITUTIONS BETWEEN WORK AS SPECIFIED AND INSTALLED. RECORD CHANGES ON A CLEAN SET OF CONTRACT DRAWINGS WHICH SHALL BE TURNED OVER TO THE CONSTRUCTION MANAGER UPON COMPLETION OF THE PROJECT

19. THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURES, ABOVE GROUND STRUCTURES AND/OR EXISTING UTILITIES BELIEVED TO BE IN THE WORKING AREA. IT IS THE RESPONSIBILITY OF THE SUBCONTRACTOR TO VERIFY ALL UTILITIES. PIPELINES AND OTHER STRUCTURES SHOWN OR NOT SHOWN ON THESE PLANS. THE SUBCONTRACTOR SHALL CONTACT THE LOCAL IURISDICTION'S DIGGER'S HOTLINE BEFORE DIGGING OR DRILLING. ANY DAMAGE TO EXISTING JTILITIES SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER AND ENGINEER AT THE SUBCONTRACTOR'S EXPENSE.

GENERAL NOTES:

. THIS PROPOSAL IS FOR THE ADDITION OF A NEW GENERATOR ON A CONCRETE PAD TO AN EXISTING UNMANNED TELECOMMUNICATIONS FACILITY CONSISTING OF AN EQUIPMENT SHELTER. AND TOWER.

2. THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE.

3. THE PROPOSED FACILITY IS UNMANNED AND IS NOT FOR HUMAN HABITAT. (NO HANDICAP

4. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2

5. OUTDOOR STORAGE AND SOLID WASTE CONTAINERS ARE NOT PROPOSED.

G. ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH

7. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY THE

8. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTION

9. SUBCONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.

- COORDINATE LOCATION AND POWER REQUIREMENTS OF ALL EQUIPMENT WITH AT&T AND EQUIPMENT SUPPLIER PRIOR TO INSTALLATION.
- 2 COORDINATE LOCATION AND REQUIREMENTS FOR FLECTRICAL AND TELEPHONE SERVICES WITH THE PROPERTY REPRESENTATIVE, AT¢T AND UTILITY COMPANIES. ROUTING OF CONDUITS MAY BE MODIFIED TO MEET SITE REQUIREMENTS. EXACT CONDUIT ROUTING TO
- 3. ALL WIRING AND EQUIPMENT SHOWN ON ELECTRICAL SHEETS SHALL BE FURNISHED AND INSTALLED UNDER ELECTRICAL PORTION OF CONTRACT UNLESS OTHERWISE NOTED
- 4. UNINTERRUPTED ELECTRICAL SERVICE FOR EXISTING EQUIPMENT SHALL BE MAINTAINED DURING THE INSTALLATION OF THE WORK DESCRIBED UNDER THESE DOCUMENTS. TEMPORARY EQUIPMENT, CABLES AND WHATEVER ELSE IS NECESSARY SHALL BE PROVIDED AS REQUIRED TO MAINTAIN ELECTRICAL SERVICE. TEMPORARY SERVICE FACILITIES, 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
- 5. COORDINATE NEW WORK WITH OTHER TRADES AND VERIFY EXISTING CONDITIONS TO AVOID INTERFERENCE. IN CASE OF INTERFERENCE, AT&T'S REPRESENTATIVE WILL DECIDE WHICH WORK IS TO BE RELOCATED, REGARDLESS OF WHICH WAS FIRST INSTALLED
- 6. THE INSTALLATION MUST COMPLY WITH NEC AND ALL FEDERAL, STATE AND LOCAL RULES
- THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND EQUIPMENT UNLESS OTHERWISE DEFINED BY DIMENSIONS OR DETAILS. EXACT EQUIPMENT LOCATIONS AND RACEWAY ROUTING SHALL BE GOVERNED BY ACTUAL FIELD CONDITIONS AND/OR DIRECTIONS FROM AT&T'S REPRESENTATIVE.
- 8. CONTRACTOR SHALL PAY ALL PERMITS AND FEES REQUIRED.
- 9. ALL MATERIALS SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE STANDARDS REFERENCED BELOW:
 - ANSI (AMERICAN NATIONAL STANDARDS INSTITUTE)
 - ASTIM (AMERICAN SOCIETY FOR TESTING MATERIALS

 - IEEE (INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS)
 - MBFU (NATIONAL BOARD OF FIRE UNDERWRITERS)
 - NESC (NATIONAL ELECTRICAL SAFETY CODE)
 - NEMA (NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION)
 - NFPA (NATIONAL FIRE PROTECTION ASSOCIATION)
- 10. CONTRACTOR SHALL REVIEW PLANS, DETAILS AND SPECIFICATIONS IN DETAIL AND ADJUST WORK TO CONFORM WITH ACTUAL SITE CONDITIONS SO THAT ELECTRICAL DEVICES AND EQUIPMENT WILL BE LOCATED AND READILY ACCESSIBLE. QUANTITIES LISTED IN MATERIAL LISTS ON THE DRAWINGS ARE FOR INFORMATION ONLY. THE CONTRACTOR SHALL PROVIDE HIS OWN TAKEOFF FOR MATERIAL QUANTITY AND TYPES BASED ON ACTUAL SITE CONDITIONS, IN ADDITION, CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIALS TO INSTALL EQUIPMENT FURNISHED BY AT&T OR ITS SUPPLIERS. ALL ITEMS NOT SPECIFICALLY MENTIONED HEREIN OR SHOWN ON THE DRAWINGS, BUT WHICH ARE OBVIOUSLY NECESSARY TO MAKE A COMPLETE WORKING INSTALLATION, SHALL BE INCLUDED.
- II. THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) AT&T'S REPRESENTATIVE OF ANY CONFLICTS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK, IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED IN WRITING OTHERWISE
- 12. ALL FLOORS WHERE PENETRATIONS ARE REQUIRED IN BUILDING ARE TO BE CORE DRILLED AND THEN FIREPROOFED.

B. WIRING/CONDUIT

PROVIDE PULL BOXES AND JUNCTION BOXES WHERE SHOWN OR AS REQUIRED BY CODE SUCH THAT NO MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (380 DEGREES TOTAL) EXIST IN A CONDUIT RUN.

- 2. ALL POWER AND CONTROL/INDICATION WIRING SHALL BE TYPE THHN/THWN 800V RATED 75 DEGREES CELSIUS, UNLESS NOTED OTHERWISE
- SCHEDULE 80 PVC CONDUIT SHALL BE USED ABOVE GROUND, WHERE ABOVE GRADE IS 3. DEFINED AS THE GROUND OF THE TURN-UP
- BELL END OR TERMINAL ADAPTER MUST BE INSTALLED ON END OF PVC CONDUIT PER NEC 4. 352.46. 300.4 F, (3)
- CONDUIT BENDS SHALL BE MADE IN ACCORDANCE WITH NEC TABLE 346-10. NO RIGHT 5. ANGLE DEVICE OTHER THAN STANDARD CONDUIT ELBOWS WITH 12" MINIMUM INSIDE SWEEPS FOR ALL CONDUITS 2" OR LARGER
- 6. POWER WIRING SIZE SHALL NOT BE SMALLER THAN #12 AWG.
- 7. SHALL CONTAIN A GROUND WIRE.
- 8. PHASE MARKINGS TO BE USED AT POWER CONDUCTOR TERMINATIONS.
- 9. CONTRACTOR SHALL ENSURE INTEGRITY IS MAINTAINED WHEN INSTALLING CONDUIT AND WIRING
- 10. INSTALL PULL STRING IN ALL CONDUIT.
- II. FOR ROOFTOP INSTALLS AND BUILD-OUTS, CONDUITS INSIDE BUILDING AND ON ROOF SHALL BE RGS, UNLESS OTHERWISE NOTED. FOR RAW LAND SITES AND CO-LOCATES, PVC SCHEDULE 80 SHALL BE UTILIZED UNLESS NOTED OTHERWISE
- 1.2 MAINTAIN MINIMUM L'-O" VERTICAL AND L'-O" HORIZONTAL SEPARATIONS FROM ANY MECHANICAL GAS PIPING.
- 13. ALL WIRING ROUTED IN PLENUM TO BE RATED OR IN METALLIC FLEX (LIQUIDITE) CONDUIT.

C. EQUIPMENT

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

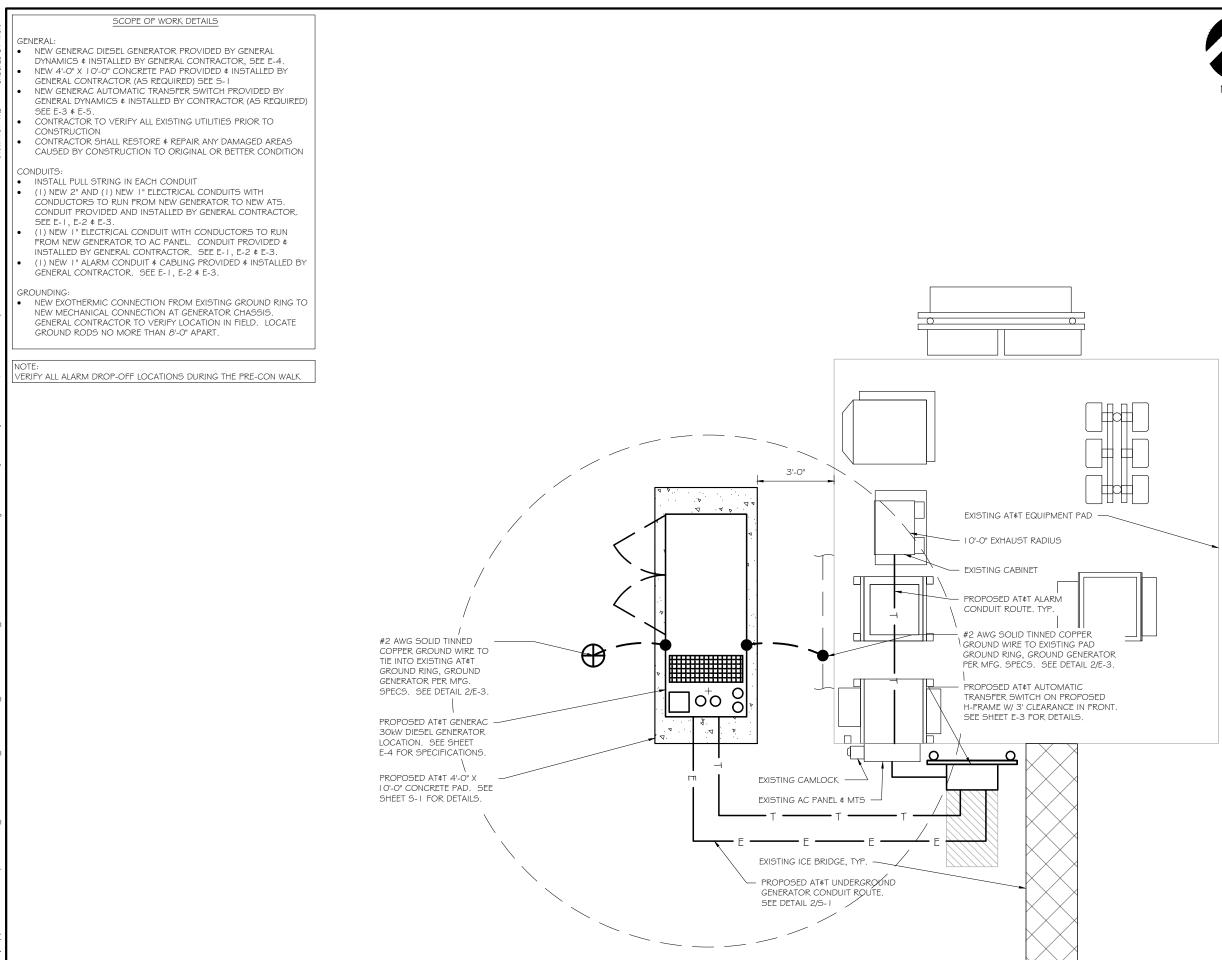
D. GROUNDING

- ALL GROUND CONNECTIONS TO BUILDING SHALL BE MADE USING TWO-HOLE CONNECTORS PROVIDE STAINLESS STEEL BOLTS AND LOCK WASHERS ON ALL MECHANICAL GROUND CONNECTIONS.
- 2 ALL EQUIPMENT SURFACES TO BE BONDED TO GROUNDING SYSTEM SHALL BE STRIPPED OF ALL PAINT AND DIRT. CONNECTIONS TO VARIOUS METALS SHALL BE OF A TYPE AS TO CAUSE A GALVANIC OR CORROSIVE REACTION. AREA SHALL BE REPAINTED FOLLOWING 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 5 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 PLANS ACCORDING TO ACTUAL EQUIPMENT LOCATIONS TO KEEP THE GROUND CONNECTION CABLES AS SHORT AS PRACTICAL
- 7. PROVIDE ALL ELECTRICAL SYSTEM AND EQUIPMENT GROUNDS AS REQUIRED BY THE CURRENT EDITION OF THE NATIONAL ELECTRIC CODE 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
- ALL EQUIPMENT GROUND CONDUCTORS SHALL BE TIN COATED, #2 AWG COPPER UNLESS 8. NOTED OTHERWISE ON THE DRAWINGS.
- 9. PROVIDE PRE AND POST GROUND TEST RESULTS, USING CLAMP-ON TESTER. TEST RESULTS SHALL BE PHOTOS WITH DIGITAL TIME AND GPS STAMPED/EMBEDDED.

E. INSPECTION/DOCUMENTATION

- THE CONTRACTOR, UPON COMPLETION OF HIS WORK, SHALL PROVIDE AS-BUILT DRAWINGS 1. INFORMATION SHOULD BE GIVEN TO THE GENERAL CONTRACTOR FOR INCLUSION IN FINAL AS-BUILT SURVEY DOCUMENTS TO BE GIVEN TO THE OWNER.
- CONTRACTOR SHALL SUPPLY DOCUMENTATION ATTESTING TO THE COMPLETE GROUND 2. SYSTEM'S RECEPTIVITY (MAX. 5 OHMS).
- 3. AN ELECTRICAL INSPECTION SHALL BE MADE BY AND INSPECTING AGENCY APPROVED BY AT&T'S REPRESENTATIVE. CONTRACTOR SHALL COORDINATE ALL INSPECTIONS AND OBTAIN POWER COMPANY APPROVAL.
- 4. CONTRACTOR SHALL HAVE ATS AND GENERATOR RELAY INSTALLATION AND CONNECTIONS INSPECTED BY OTHERS TO ENSURE THAT UL LISTING FOR THAT EQUIPMENT IS NOT VOIDED.

RÂMAKER (608) 643-4100 www.ramaker.com PREPARED FOR: ALL WIRING SHALL BE COPPER. ALUMINUM WILL NOT BE ACCEPTABLE ALL POWER CIRCUITS Mobility CONSULTANT: **GENERAL DYNAMICS** Information Technology, Inc. GENERAL DYNAMICS 993 MANSELL ROAD, SUITE D ROSWELL, GA 30076 Certification & Seal hereby certify that this plan, specification, or report was preme or under my direct supervision and that I am a duly Licer anal Engineer under the laws of the State of <u>North Carolina</u> WITH CAAO ROFESSION 2 SEAL 050621 ARK DATE DESCRIPTION DATE 06/21/2022 FINAL PROJECT **OVERLAY - RYES** FA ID # 10017268 RO IECT INFORMATIO 08 JUNIOR LANE BROADWAY, NC 27505 SHEET TITLE: GENERAL NOTES SCALE: NONE PROJECT NUMBER 54948 SHEET N-1



SITE PLAN

SCALE: |" = 3.75

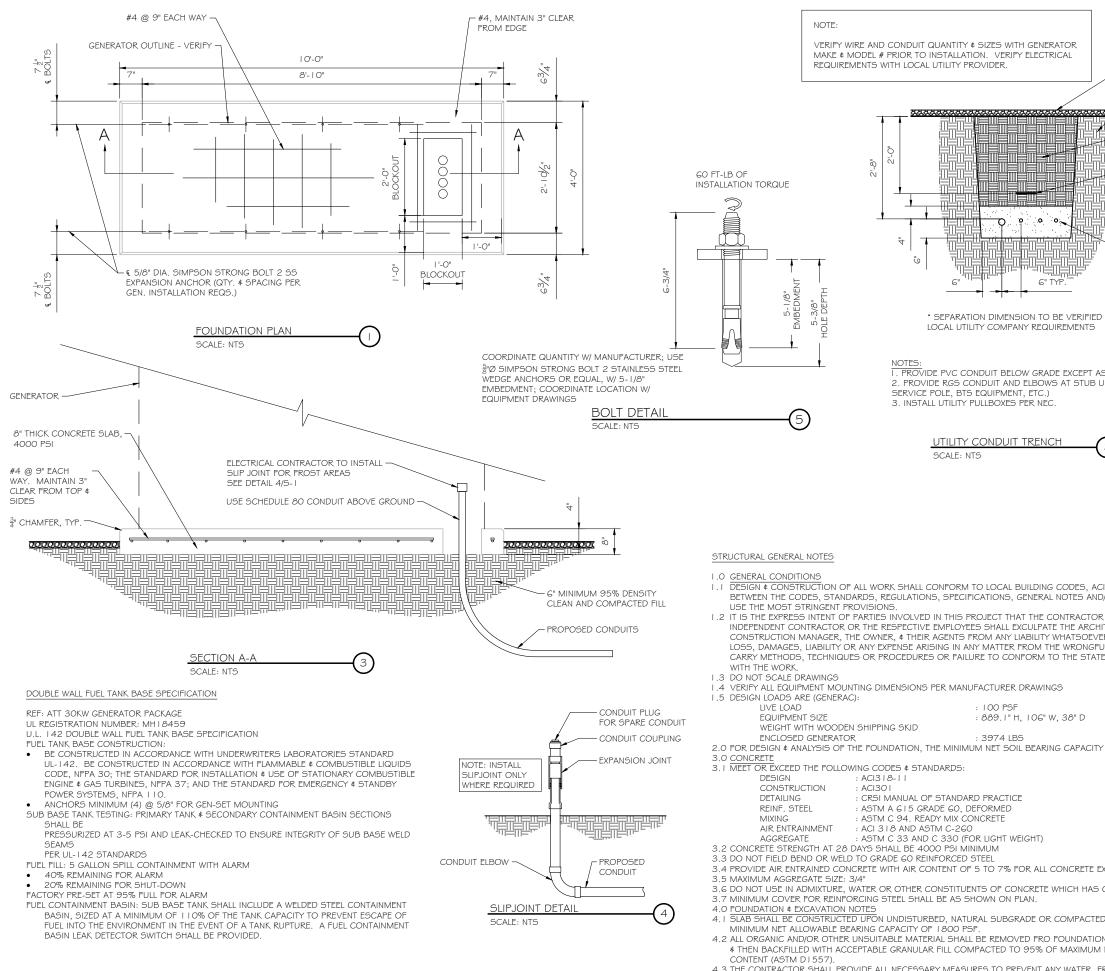
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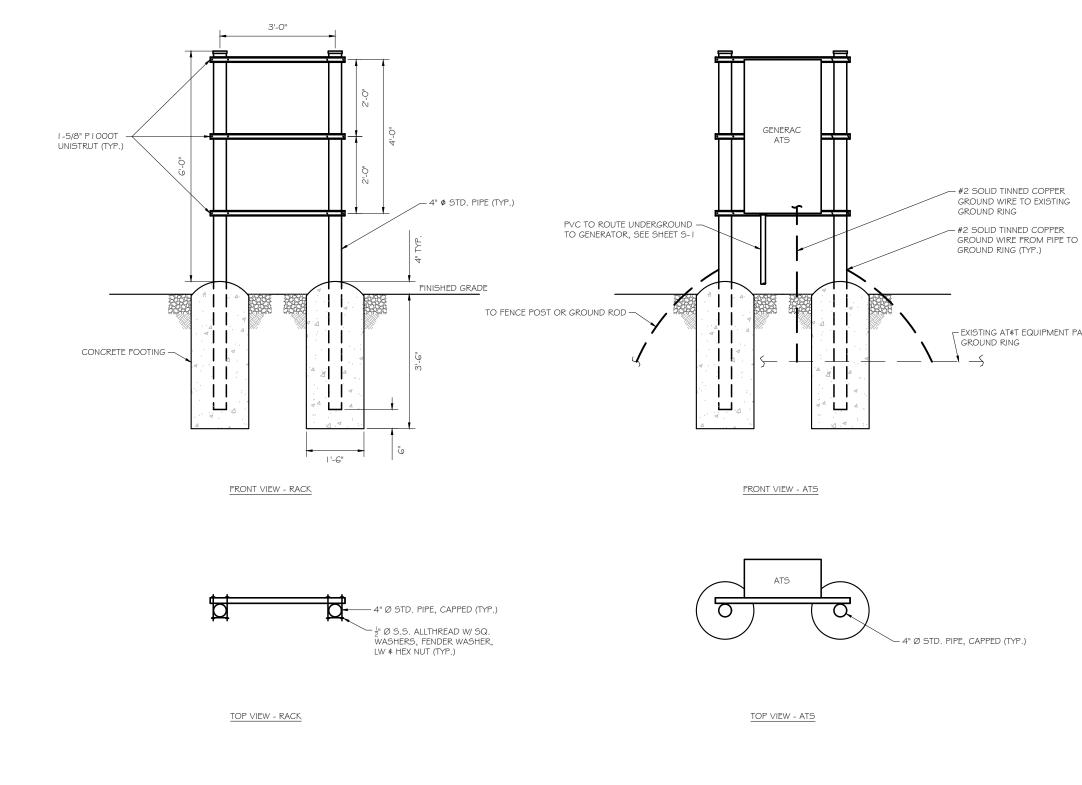
^{4.3} THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES TO PREVENT ANY WATER, FF FOOTING OR STRUCTURAL SUBGRADE BEFORE & AFTER PLACING OF CONCRETE, AND UNTIL

RESTORE SURFACE TO MATCH ORIGINAL CONDITION UNDISTURBED SOIL COMPACTED BACKFILL (SUITABLE ON SITE MATERIAL) G" WARNING TAPE ELECTRICAL CONDUIT(5)	RAMAKER employee-owned (608) 643-4100 www.ramaker.com PREPARED FOR: at&t Mobility
WHERE APPLICABLE *	
S NOTED BELOW. JP LOCATIONS (I.E.	CONSULTANT: GENERAL DYNAMICS Information Technology, Inc. GENERAL DYNAMICS 993 MANSELL ROAD, SUITE D ROSWELL, GA 30076
2)	Certification 4 Seal: I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of <u>North Carolina</u> . WHICH CAAPO INTERVISION OF ESSION SEAL 050621
CI 3 I 8- I I. IN CASE OF CONFLICT WOR MANUFACTURER'S REQUIREMENTS, COR SUBCONTRACTOR OR ITECT, THE ENGINEER, TECH. CR & HOLD THEM HARMLESS AGAINST JL OR NEGLIGENT ACT, OR FAILURE TO E SCAFFOLDING ACT IN CONNECTIONS	Highed H. Zander:
' SHALL BE ASSUMED TO BE 2000 PSF.	MARK DATE DESCRIPTION ISSUE FINAL DATE OG/21/2022 PROJECT TITLE: OVERLAY - RYES FA ID # 10017268 PROJECT INFORMATION:
XPOSED TO EARTH OR WEATHER. CALCIUM CHLORIDE.	I 08 JUNIOR LANE BROADWAY, NC 27505 Sheet Title: FOUNDATION DETAILS
O GRANULAR FILL WITH AN ASSUMED	SCALE: NONE
N & SLAB SUBGRADE & BACKFILL AREAS, DENSITY AT OPTIMUM MOISTURE	
ROST, OR ICE FROM PENETRATING ANY	PROJECT 54948
SUCH CONCRETE HAS FULLY CURED.	SHEET S-1

SCOPE OF WORK DETAILS

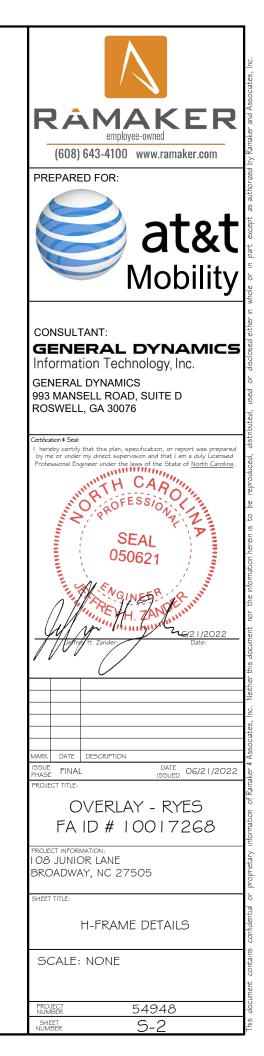
H-FRAME:

 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.

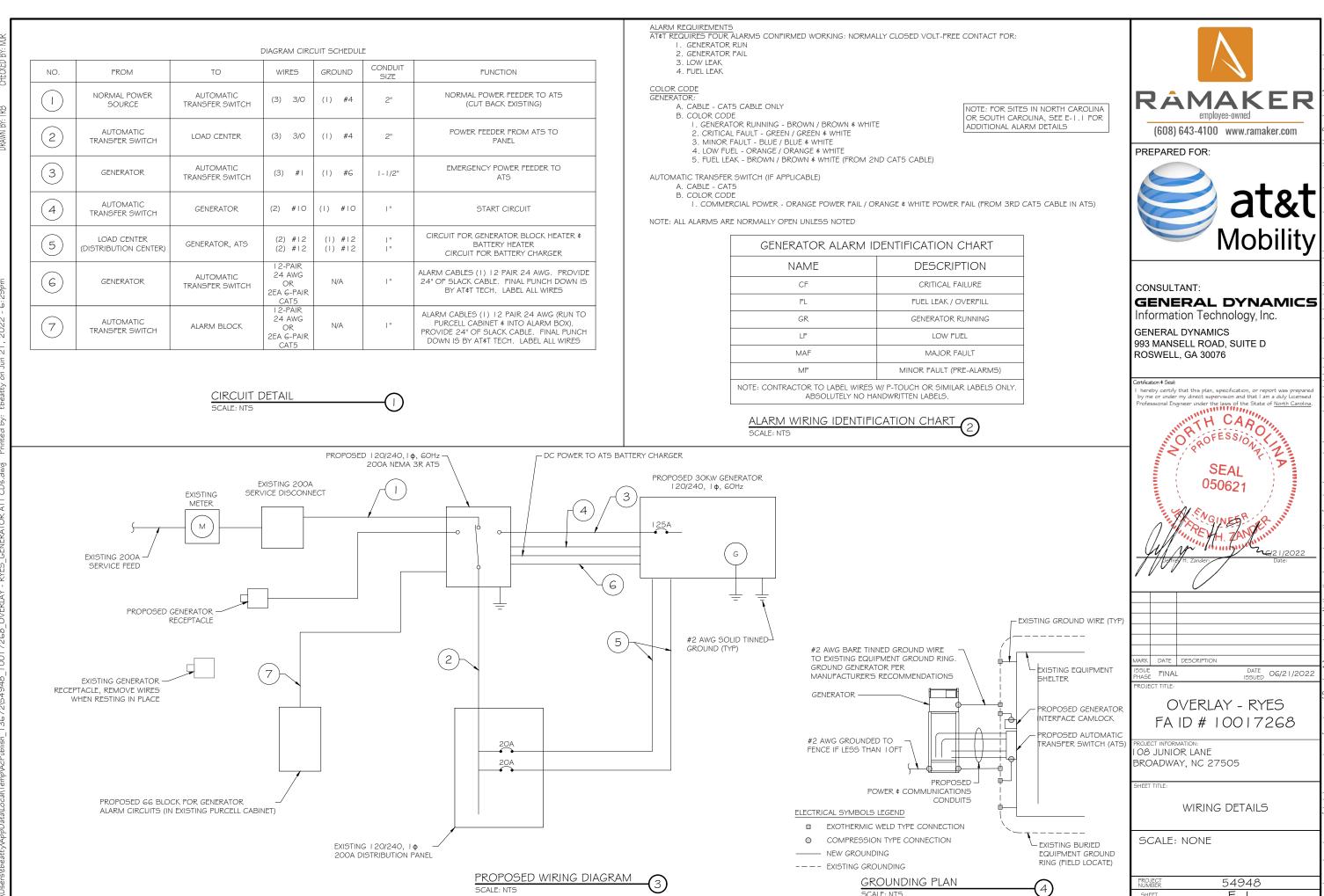


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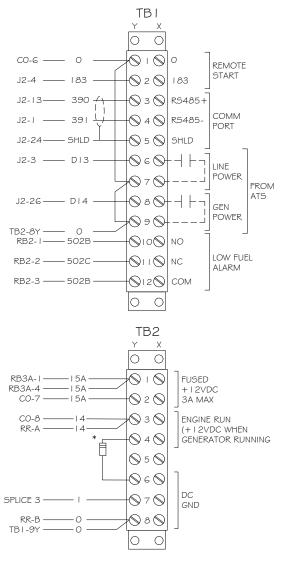
- EXISTING AT∉T EQUIPMENT PAD



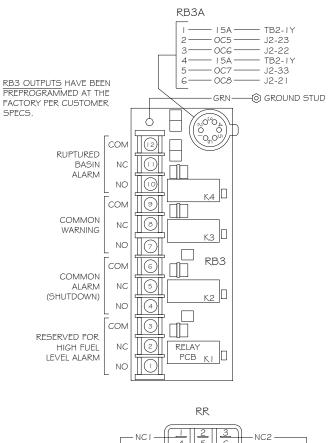
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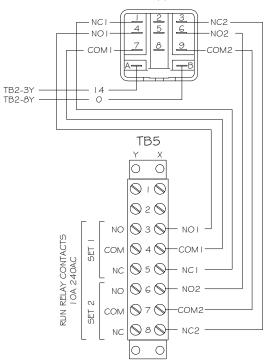
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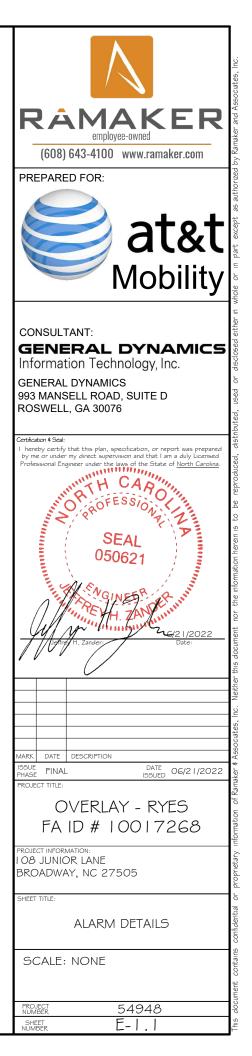
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* NOTE: ENSURE LINE OF DIODE (CATHODE) IS CLOSEST TO TB2-4X FOR CORRECT POLARIZATION







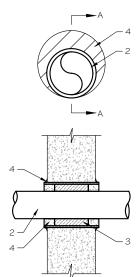
AC Distribution Panel - Layout Diagram Breaker Position Breaker Type On/Off Size Circuit Label Breaker Position Breaker Type On/Off Size Circuit Label 1 2P ON PCU1 2 2P ON Circuit Label 5 2P ON PCU2 6 2P OFF Circuit Label 9 2P ON PCU3 10 2P OFF Circuit Label 11 2P ON PCU3 10 2P OFF Circuit Label 13 2P ON PCU4 14 2P ON Circuit Label 15 2P ON PCU4 14 2P ON Circuit Label 17 2P ON PCU5 18 1P ON Circuit Label 21 2P OFF PCU6 22 2P ON Circuit Label 23 1P ON 20 PBLOCK HEATER 28 Circuit Label Circuit Label 29 1P ON 20 </th
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27 1P ON 20 -BLOCK HEATER 28
29 1P ON 20 -BATTERY CHARGER 30 PROPOSED 20A BREAKERS FOR BLOCK HEATER AND
PROPOSED 20A BREAKERS FOR BLOCK HEATER AND
EXISTING PANEL SCHEDULE

*CONTRACTOR TO UTILIZE NEXT AVAILABLE IN

SEQUENCE SINGLE BREAKER POSITION FOR GENERATOR, BATTERY CHARGER, BATTERY HEATER

AND BLOCK HEATER

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



EXISTING CONSTRUCTION VARIES ROM THIS DETAIL, AN EQUAL 3-HR .L. PENETRATION APPROPRIATE FOR HE EXISTING WALL TYPE SHALL BE

ONSTRUCTED C SHALL USE NON-SHRINKING CAULK TO WEATHERSEAL ALL PENETRATIONS NTO OR THRU SHELTER WALL. CONDUIT THROUGH BEARING WALL SIMILAR TO U.L. DESIGN NO. U902 F RATING = 3 HR T RATING = O HR

U.L. SYSTEM NO. C-AJ-1150

- FLOOR OR WALL ASSEMBLY : MINIMUM 4-1/2" THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAMETER OF OPENING IS 4". SEE CONCRETE BLOCKS 9CATZ) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
- 2. THROUGH PENETRATIONS : ONE METALLIC PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE ANNULAR SPACE SHALL BE MINIMUM O". (POINT CONTACT) TO MAXIMUM 1-3/8". THE FOLLOWING TYPES AND SIZES

OF METALLIC PIPES OR CONDUITS MAY BE USED: A. STEEL PIPE-NOMINAL G" DIAMETER (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL PIPE B. IRON PIPE-NOMINAL 6" DIAMETER (OR SMALLER) CAST OR DUCTILE IRON PIPE.

C. CONDUIT - NOMINAL 4" DIAMETER (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR NOMINAL 3-1/2" DIAMETER (OR SMALLER) STEEL CONDUIT. 3. PACKING MATERIAL: MINIMUM 6" THICKNESS OF MIN 4.0 PCF MINERAL WOOL BATTING INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES

- OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
- 4. FILL, VOID, OR CAVITY MATERIAL*: SEALANT: MINIMUM 1/4" THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR AND WITH BOTH SURFACES OF WALL. AT THE POINT CONTACT LOCATION BETWEEN PIPE AND CONCRETE, A MINIMUM 1/2" DIAMETER BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE CONCRETE/PIPE INTERFACE ON THE TOP SURFACE OF FLOOR AND ON BOTH SURFACES OF WALL. W RATING APPLIES ONLY WHEN CPGOIS OR CPGO4 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

 \diamond ĠR. Ε ΤΑΡ ΤΟ IND ROD

60

Type VN

ype GT THROUGH CABLE TO TOP OF GROUND ROD.







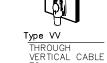
Type VV THROUGH

CABLE TAF TO TOP OF GROUND ROD TO VERTICAL STEEL SURFACE OR TO THE SIDE OF EITHER HORIZONTAL OR VERTICAL PIPE

Type GR

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

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

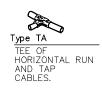


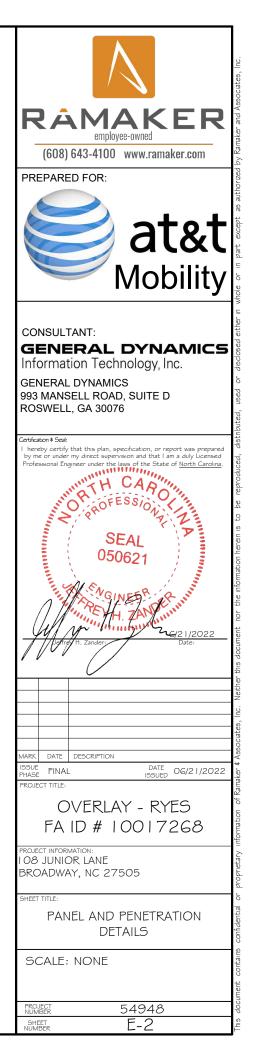
ΤO

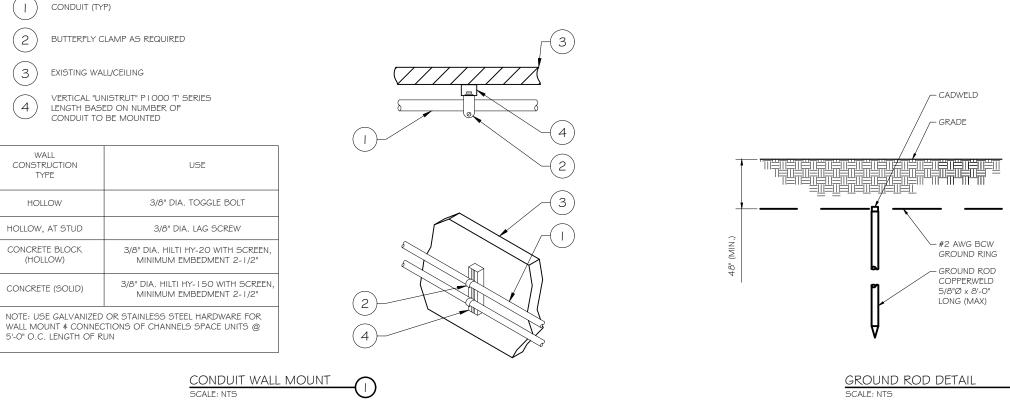








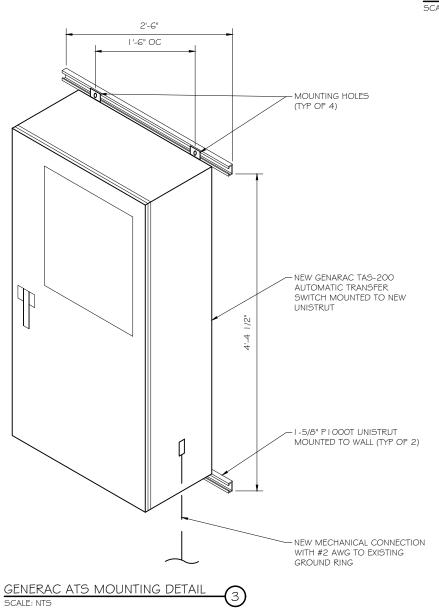




WALL CONSTRUCTION TYPE	USE
HOLLOW	3/8" DIA. TOGGLE BOLT
HOLLOW, AT STUD	3/8" DIA. LAG SCREW
CONCRETE BLOCK (HOLLOW)	7/16" DIA. HILTI HY-20 WITH SCREEN MINIMUM EMBEDMENT 2-1/2"
CONCRETE (SOLID)	7/16" DIA. HILTI HY-150 WITH SCREEN MINIMUM EMBEDMENT 2-1/2"

. USE GALVANIZED OR STAINLESS STEEL HARDWARE FOR WALL

- MOUNT AND CONNECTION OF CHANNELS
- 2. GC SHALL USE NON-SHRINKING CAULK TO WEATHER SEAL
- ALL PENETRATIONS INTO OR THROUGH SHELTER WALL



NOTE:

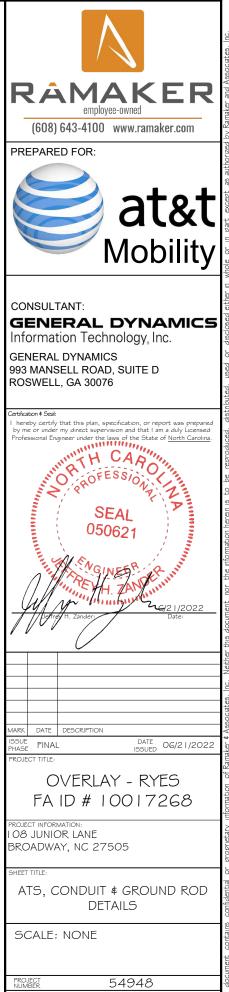
2

(3

(4

(2)

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



SHEET

E-3



EPA Certified Stationary Emergency

Standby Power Rating 30 kW, 38 kVA, 60 Hz

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



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

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



GENERAC INDUSTRIAL

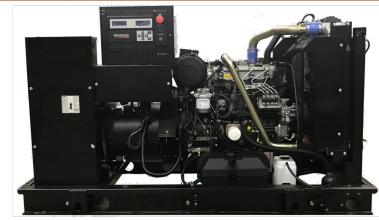


Image used for illustration purposes only

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.

SD030 | 2.2L | 30 kW

INDUSTRIAL DIESEL GENERATOR SET EPA Certified Stationary Emergency

STANDARD FEATURES

ENGINE SYSTEM

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

Fuel System

- Fuel Lockoff Solenoid
- Primary Fuel Filter

Cooling System

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

Electrical System

- · Battery Charging Alternator
- 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

- Protect Finish
- Gasketed Doors

- Amortisseur Winding (3-Phase Only) Full Load Capacity Alternator
- Protective Thermal Switch

GENERATOR SET

Wrapped Exhaust Piping

· Audible Alarms and Shutdowns

• E-Stop (Red Mushroom-Type)

Predictive Maintenance Algorithm

NFPA110 Level I and II (Programmable)

• Customizable Alarms, Warnings, and Events

Not in Auto (Flashing Light)

Auto/Off/Manual Switch

Modbus[®] Protocol

Sealed Boards

Rotor Dynamically Spin Balanced

ALTERNATOR SYSTEM

Class H Insulation Material

UL2200 GENprotect[™]

2/3 Pitch

· Skewed Stator

Sealed Bearing

Brushless Excitation

- Internal Genset Vibration Isolation
- · Separation of Circuits High/Low Voltage
- Separation of Circuits Multiple Breakers
- 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)

Fuel Level

- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Speed
- Battery Voltage
- Frequency

- Oil Pressure
- Password Parameter Adjustment Protection Single Point Ground
- 16 Channel Remote Trending
- 0.2 msec High Speed Remote Trending
- Alarm Information Automatically Annunciated
- Power Output (kW)
- Power Factor • kW Hours, Total, and Last Run
- Real/Reactive/Apparent Power

Full System Status Display

All Phase AC Voltage

on the Display

All Phase Currents

GENERAC 30KW GENERATOR SPECIFICATIONS SCALE: NTS





ENCLOSURE (If Selected)

 Rust-Proof Fasteners with Nylon Washers to High Performance Sound-Absorbing Material (Sound Attenuation Enclosures) Stamped Air-Intake Louvers • Upward Facing Discharge Hoods (Radiator and Exhaust) • Stainless Steel Lift Off Door Hinges Stainless Steel Lockable Handles

RhinoCoat[™] - Textured Polyester Powder Coat Paint

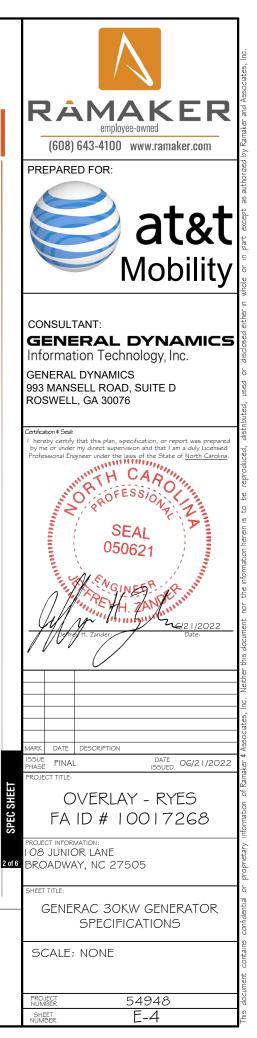
FUEL TANKS (If Selected)

• UL 142/ULC S601 Double Wall Normal and Emergency Vents Sloped Top Sloped Bottom Factory Pressure Tested Rupture Basin Alarm

 Check Valve In Supply and Return Lines RhinoCoat[™] - Textured Polyester Powder Coat Paint Stainless Steel Hardware

Alarms and Warnings

- Coolant Temperature
- Coolant Level
- Engine Overspeed
- Battery Voltage
- Alarms and Warnings Time and Date Stamped
- Snap Shots of Key Operation Parameters During
- Alarms and Warnings
- Alarms and Warnings Spelled Out (No Alarm Codes)



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

O 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

CONTROL SYSTEM

Surface Mount)

○ 100 dB Alarm Horn

Ground Fault Annunciation

O 10A Engine Run Relay

120V GFCI and 240V Outlets

O 8 in (203.2 mm) Fill Extension

13 in (330.2 mm) Fill Extension

19 in (482.6 mm) Fill Extension

○ 5 Gallon Spill Box Return Hose

Fuel Level Switch and Alarm

Fire Rated Stainless Steel Fuel Hose

Overfill Protection Valve

O 5 Gallon Spill Box

O 12' Vent System

Tank Risers

Remote Communication - Modem

FUEL TANKS (Size On Last Page)

• NFPA 110 Compliant 21-Light Remote Annunciator

GENERAC INDUSTRIAL

- 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,

Remote E-Stop (Red Mushroom-Type, Flush Mount)

- ENCLOSURE
- Weather Protected Enclosure

CIRCUIT BREAKER OPTIONS

• Shunt Trip and Auxiliary Contact

Main Line Circuit Breaker

○ Electronic Trip Breakers

O 2nd Main Line Circuit Breaker

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

WARRANTY (Standby Gensets Only)

- 10 Year Extended Limited Warranty

ALTERNATOR SYSTEM

○ 3rd Breaker System

GENERATOR SET

Special Testing

FUEL TANKS

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	Clos
EPA Emissions Compliance	Stationary Emergency	Water Pump Type	Pre-
EPA Emissions Reference	See Emission Data Sheet	Fan Type	Pus
Cylinder #	4	Fan Speed - RPM	1,98
Туре	In-Line	Fan Diameter - in (mm)	18 (
Displacement - in ³ (L)	135 (2.22)		
Bore - in (mm)	3.3 (84)	Fuel System	
Stroke - in (mm)	3.9 (100)	Fuel Type	Ultra
Compression Ratio	23.3:1	Fuel Specifications	AST
Intake Air Method	Turbocharged	Fuel Filtering (Microns)	5
Cylinder Head	Cast Iron	Fuel Inject Pump	Dist
Piston Type	Aluminum	Fuel Pump Type	Eng
Crankshaft Type	Forged Steel	Injector Type	Med
		Fuel Supply Line - in (mm)	0.3
Engine Governing		Fuel Return Line - in (mm)	0.2
Governor	Electronic Isochronous		
Frequency Regulation (Steady State)	±0.5%	Engine Electrical System	
		System Voltage	12
Lubrication System		Battery Charger Alternator	Star
Oil Pump Type	Gear	Battery Size	See
Oil Filter Type	Full-Flow	Battery Voltage	12 \
Crankcase Capacity - qt (L)	11.2 (10.6)	Ground Polarity	Neg

ALTERNATOR SPECIFICATIONS

Standard Model	K0035124Y21	Standard Excitation	Brus
Poles	4	Bearings	Sing
Field Type	Revolving	Coupling	Dire
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	Digit
Telephone Interference Factor (TIF)	< 50	Number of Sensed Phases	All
		Regulation Accuracy (Steady State)	±0.

GENERAC 30KW GENERATOR SPECIFICATIONS SCALE: NTS



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O 2 Year Extended Limited Warranty 5 Year Limited Warranty O 5 Year Extended Limited Warranty

- O 7 Year Extended Limited Warranty
- - - - UL2085 Tank
 - Stainless Steel Tanks
 - Special Fuel Tanks
 - Vent Extensions





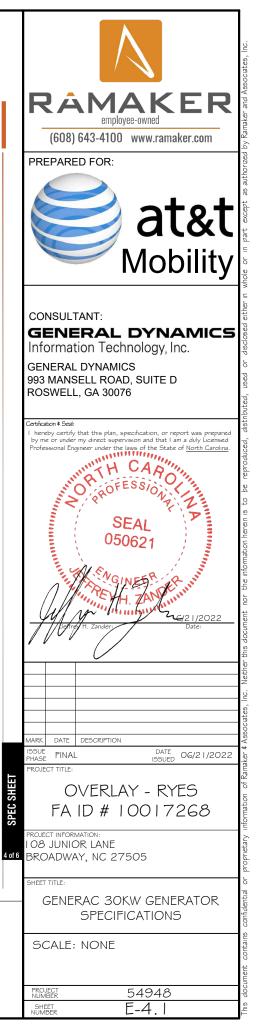
Closed Recovery
Pre-Lubed, Self Sealing
Pusher
1,980
18 (457)

Ultra Low Sulfur Diesel Fuel #2 ASTM

istribution Injection Pump
ngine Driven Gear
lechanical
.31 (7.9) ID
.2 (4.8) ID

12 VDC
Standard
See Battery Index 0161970SBY
12 VDC
Negative

Brushless
Single Sealed
)irect via Flexible Disc
00%
'es
Digital
All
±0.25%





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

GENERAC INDUSTRIAL

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*						
		Die	Diesel - gph (Lph)			
	Fuel Pump Lift- ft (m)	Percent Load	Standby			
	3 (1)	25%	1.0 (3.7)			
		50%	1.4 (5.2)			
	Total Fuel Pump Flow (Combustion + Return) - gph (Lph)	75%	2.0 (7.5)			
	16.6 (63)	100%	2.8 (10.5)			
		* Fuel supply installat consumption rates	tion must accommodate fuel at 100% load.			
COOLING						
			Standby			
	Coolant Flow	gpm (Lpm)	14.9 (56.2)			
		1.0.3	0 = (0 =)			

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

	EL 10110			
	Flow at Rated Power scfm	m (m ³ /min) 88 (2.5)		
		EXHAUST		
	Standby			Standby
RPM	1,800	Exhaust Flow (Rated Output)	scfm (m ³ /min)	296.6 (8.4)
hp	49	Max. Allowable Backpressure (Post Turbocharger)	inHg (kPa)	1.5 (5.1)
ft/min (m/min)	1,181 (360)	Exhaust Temp (Rated Output)	°F (°C)	892 (478)
psi (kPa)	159 (1,096)			
h fi	np t/min (m/min) osi (kPa)	1,800 pp 49 t/min (m/min) 1,181 (360) osi (kPa) 159 (1,096)	Standby Exhaust Flow (Rated Output) RPM 1,800 Exhaust Flow (Rated Output) np 49 Max. Allowable Backpressure (Post Turbocharger) t/min (m/min) 1,181 (360) Exhaust Temp (Rated Output)	Standby RPM 1,800 up 49 Max. Allowable Backpressure (Post Turbocharger) inHg (kPa) t/min (m/min) 1,181 (360) bsi (kPa) 159 (1,096)

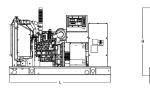
Refer to "Emissions Data Sheet" for maximum bHP for EPA and SCAQMD permitting purposes

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

SD030 | 2.2L | 30 kW

INDUSTRIAL DIESEL GENERATOR SET EPA Certified Stationary Emergency

DIMENSIONS AND WEIGHTS*

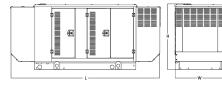


	OPEN S	ET (Include	es Exhaust Flex)
	Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (r
=	No Tank	-	76.0 (1,930) x 37.4 (950)

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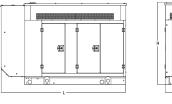
WEATHER PROTECTED ENCLOSURE

Run Time	Usable Capacity	L x W x H - in (mm)		: - Ibs (kg) sure Only
- Hours	- Gal (L)		Steel	Aluminum
No Tank	-	94.8 (2,409) x 38.0 (965) x 49.5 (1,258)		
19	54 (204)	94.8 (2,409) x 38.0 (965) x 62.5 (1,588)	070	0.44
47	132 (501)	94.8 (2,409) x 38.0 (965) x 74.5 (1,893)	- 372 241 - (170) (110	(110)
75	211 (799)	94.8 (2,409) x 38.0 (965) x 86.5 (2,198)	. (170)	(110)
107	300 (1,136)	94.8 (2,409) x 38.0 (965) x 86.5 (2,198)	-	



LEVEL 1 ACOUSTIC ENCLOSURE

Run Time - Hours	Usable Capacity	L x W x H - in (mm)		Weight - Ibs (kg) Enclosure 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)	5.05	000	
47	132 (501)	112.5 (2,857) x 38.0 (965) x 74.5 (1,893)	505 (230)	338 (154)	
75	211 (799)	1 (799) 112.5 (2,857) x 38.0 (965) x 86.5 (2,198)		(134)	
107	300 (1,136)	112.5 (2,857) x 38.0 (965) x 86.5 (2,198)			



Run Time - Hours	Usable Capacity	L x W x H - in (mm)	Weight - Ibs (kg) Enclosure Only	
- nouis	- 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)	- 10	
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.

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

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GENERAC 30KW GENERATOR SPECIFICATIONS SCALE: NTS

EC

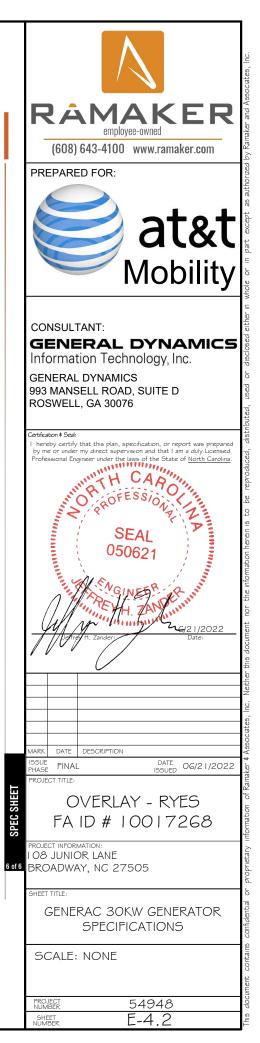






OPEN SET (Includes Exhaust Flex)							
Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - Ibs (kg)					
-	76.0 (1,930) x 37.4 (950) x 44.8 (1,138)	1,641 (745)					
54 (204)	76.0 (1,930) x 37.4 (950) x 57.8 (1,468)	2,121 (963)					
132 (501)	76.0 (1,930) x 37.4 (950) x 69.8 (1,773)	2,351 (1,067)					
211 (799)	76.0 (1,930) x 37.4 (950) x 81.8 (2,078)	2,560 (1,162)					
300 (1,136)	92.9 (2,360) x 37.4 (950) x 81.8 (2,078)	2,623 (1,190)					
	Usable Capacity - Gal (L) - 54 (204) 132 (501) 211 (799)	Usable Capacity - Gal (L) L x W x H - in (mm) - 76.0 (1,930) x 37.4 (950) x 44.8 (1,138) 54 (204) 76.0 (1,930) x 37.4 (950) x 57.8 (1,468) 132 (501) 76.0 (1,930) x 37.4 (950) x 69.8 (1,773) 211 (799) 76.0 (1,930) x 37.4 (950) x 81.8 (2,078)	Usable Capacity - Gal (L) L x W x H - in (mm) Weight - lbs (kg) - 76.0 (1,930) x 37.4 (950) x 44.8 (1,138) 1,641 (745) 54 (204) 76.0 (1,930) x 37.4 (950) x 57.8 (1,468) 2,121 (963) 132 (501) 76.0 (1,930) x 37.4 (950) x 69.8 (1,773) 2,351 (1,067) 211 (799) 76.0 (1,930) x 37.4 (950) x 81.8 (2,078) 2,560 (1,162)				

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





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



Generac products are designed to the following standards:



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



NEC 700, 701 and 702

НЕГЛА NEMA 250

Image used for illustration purposes only.

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

120/240 Single-Phase, 200A 120/208 3-Phase, 200A 120/240 3-Phase, 200A
Eaton 200 amp Utility Breaker
Eaton 200 amp Generator Breaker
25k AIC Rated
200
350MCM - #6 AWG
350MCM - #6 AWG
Deutsch DTM04-12PA-L012
Generator Run Alarm
Generator Fail – Shutdown Alarm
Generator Fail – Non Shutdown Alar
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-Groun
	3-Phase: Black L1, Red L2, Blue L3, White-Neutral, Green-Grou
	Uses 4 CH E1016 Male Connectors
	Mating Connector – CH E1016 Female

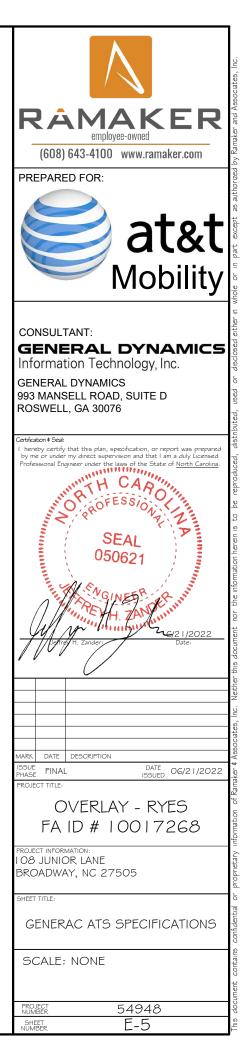
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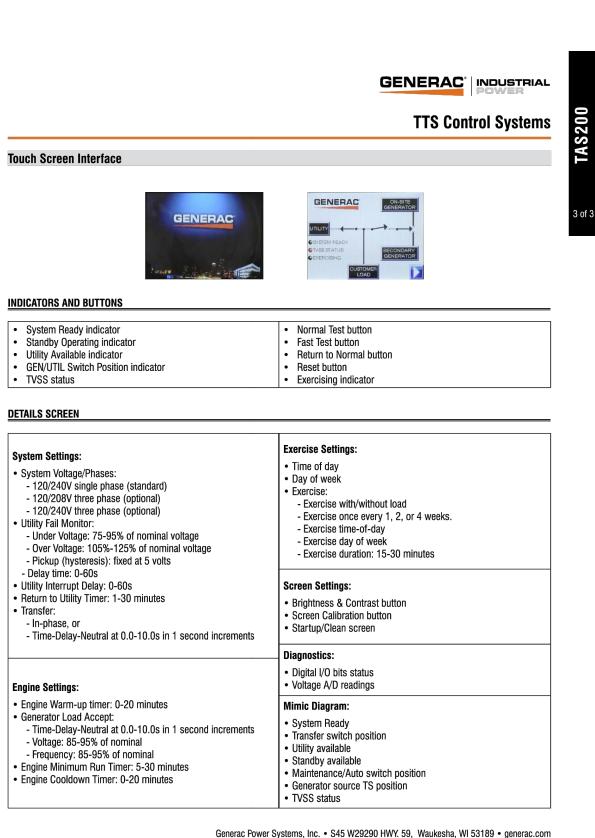
Application and Engineering Data

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