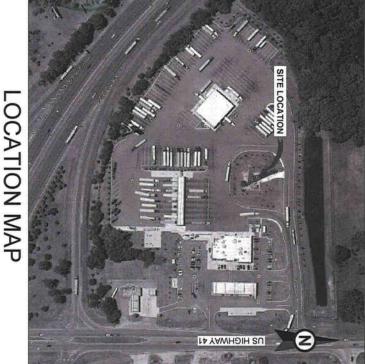




AMERICAN TOWER®

ATC SITE NAME: ELLISVILLE FL ATC SITE NUMBER: 2544 SITE ADDRESS: US HIGHWAY 41 T-MOBILE SITE NAME: 9JK2337S T-MOBILE SITE NUMBER: 9JK2337S LAKE CITY, FL 32025





CONSTRUCTION

YMK 3/21/22

PRELIM

ATC SITE NUMBER: 2544

ATC SITE NAME: ELLISVILLE FL

T-MOBILE SITE NAME:

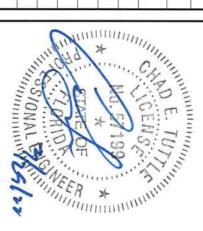
9JK2337S

DESCRIPTION

ВY

T-MOBILE GENERATOR ADD

			_	_	_	_			_				.,,					_
Know what's below.	TELEPHONE COMPANY: BELL SOUTH PHONE: (800) 252-0803	POWER COMPANY: CLAY ELECTRIC PHONE: (286) 752-7447	UTILITY COMPANIES										 ANSI/TIA-222-H 7TH EDITION FLORIDA FIRE PREVENTION CODE (NFPA 70) 		TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.	FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS	ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE	COMPLIANCE CODE
THE DERNA GROUP HUNTER GEORGE W TRUSTEE OF THE GEORGE W HUNTER REVOCABLE TR P O BOX 958 LAKE CITY, FL 32056 CA 92688 CONTACT: RACHEL BRUIN PHONE: (805) 215-9444 EMAIL:	1717 S. BOULDER SUITE 300 TULSA, OK 74119 PLANNING / APPLICANT'S REPRESENTATIVE:	B+T GROUP		10 PRESIDENTIAL WAY 5901 BENJAMIN CENTER WOBURN, MA 01801 DRIVE, SUITE 110 A-B	æ ·	TOWER OWNER: APPLICANT:	PROJECT TEAM					GROUND ELEVATION: 66'-0" AMSL	LATITUDE: 30.00279425	GEOGRAPHIC COORDINATES:	COUNTY: COLUMBIA	US HIGHWAY 41 LAKE CITY, FL 32025	SITE ADDRESS:	PROJECT SUMMARY
IN FL. AND 1-75: TAKE EXIT 414 AND TURN LEFT. TRAVEL JUST PAST THE FIRST GAS STATION AND TURN LEFT TO TOWER.	COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR § 1.51000 (B)(7).	REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT INVOLVES THE	 THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED 			MONTH FOR ROUTINE INSPECTION AND MAINTENANCE. 3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND	THE FACILITY IS UNMANNED. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A	PROJECT NOTES			TELCO BOARD.	40 CONDUITS, (2) "PVC SCH 40 CONDUITS, (1) I IIZ FVC SCH 40 CONDUITS, (2) "PVC SCH 40 CONDUITS, (2) 20A/1P AND (1) 60A/47 DDF AVERS IN FYSTING DDG AND (1) SC DI COV ON EYSTING	CONCRETE PAD. (1) ATS ON UTILITY FRAME. (1) EMERGENCY CONTRETE PAD. (1) ATS ON UTILITY FRAME. (1) EMERGENCY CHI TOCES SWITCH (2) AT DVA SOL AS CONDUTE (1) A 4 50° DVA SOL	GENERAC DIESEL GENERATOR (GENERAC ROBOSE WITH 211 GALLON	GROUND WORK:	NONE	THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW:	PROJECT DESCRIPTION
	R-606	R-605	R-604	R-603	R-602	R-601	0	G-1	E-502	Ė	C	0	Ç	C-101	G-002	G-001	SHEET NO:	
					12	9	G-2		502	E-501	C-104	C-103	C-102	91	02	3	Ģ	
	SUPPLEMENTAL	SUPPLEMENTAL	SUPPLEMENTAL	SUPPLEMENTAL	SUPPLEMENTAL	01 SUPPLEMENTAL	GROUNDING DETAILS	-1 GROUNDING SCHEMATIC	502 CONDUIT DETAILS	501 ONE LINE DIAGRAM	-104 SIGNAGE REQUIREMENTS & EQUIPMENT DETAILS	GENERATOR PAD DETAILS	-102 FINAL EQUIPMENT PLAN	01 DETAILED SITE PLAN	02 GENERAL NOTES	n title sheet	DESCRIPTION:	SHEET INDEX
		SUPPLEMENTAL 0											9				1,000	SHEET INDEX
	SUPPLEMENTAL		SUPPLEMENTAL	SUPPLEMENTAL	SUPPLEMENTAL	SUPPLEMENTAL	GROUNDING DETAILS	GROUNDING SCHEMATIC	CONDUIT DETAILS	ONE LINE DIAGRAM	SIGNAGE REQUIREMENTS & EQUIPMENT DETAILS	GENERATOR PAD DETAILS	FINAL EQUIPMENT PLAN	DETAILED SITE PLAN	GENERAL NOTES	TITLE SHEET	DESCRIPTION:	SHEET INDEX



SEAL:

SITE ADDRESS: US HIGHWAY 41 LAKE CITY, FL 32025

B&T ENGINEERING, INC.

T - Mobile

ATC JOB NO: CUSTOMER ID:

9JK2337S

CUSTOMER #: 9JK2337S

DATE DRAWN: 2/15/22
ATC JOB NO: 2544-13765353_G4_02-CD

TITLE SHEET

SHEET NUMBER:

REVISION: 0

YMK 2/16/22 DATE

B+T GRP

1717 S. BOULDER SUITE 300 TULSA, OK 74119 PH: (918) 587-4630 www.bigrp.com

AMERICAN TOWER®

GENERAL CONSTRUCTION NOTES:

- OWNER FURNISHED MATERIALS, T-MOBILE "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL
- BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/CO-LOCATE ONLY)
- ACITELCO INTERFACE BOX (PPC)
 ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILDICO-LOCATE ONLY, GC
 TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)
- TOWER LIGHTING TOWERS, MONOPOLES
- ANTENNAS (INSTALLED BY OTHERS)
 TRANSMISSION LINE

- 2. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL OTHER MATERIALS FOR THE COMPLETE INSTALLATION OF THE SITE INCLUDING, BUT NOT LIMITED TO, SUCH MATERIALS AS FERVING, STRUCTURAL STEELS LUPPORTING SUB-FRAME FOR PLATFORM. 28. ROOPING LABOR AND MATERIALS, GROUNDING RINGS, GROUNDING WIRES, COPPER, CLAD OR XIT CHEMICAL GROUND ROOPS, BUSS BARS, TRANSFORMERS AND DISCONNECT SWITCHES WHERE APPLICABLE, TEMPORARY ELECTRICAL POWER, CONDUIT, LANDSCAPING COMPOUND STONE, CRANES, CORE PELLUNG, SLEEPERS AND RUBBER MATTING, REBAR, CONCRETE CAISONS, PADS ANDORS AUGER MOUNTS, MISCELL ANEOUS FASTENERS, CABLE TRAYS, NON-STANDARD ANTENNA FRAMES AND ALL OTHER MATERIAL AND LABOR REQUIRED TO COMPLETE THE JOB ACCORDING TO THE DRAWNIGS AND SPECIFICATIONS. IT IS THE POSITION OF T-MOBILE TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED
- CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
- ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERFIEDD IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
- DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

33

- 0 CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
- 12 INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE T-MOBILE REP PRIOR TO REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE T-MOBILE REP PRIOR TO PROCEEDING.
- 3 EACH CONTRACTOR SHALL COOPERATE WITH THE T-MOBILE REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
- 5 ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
- 17. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
- 19
- 21. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH T-MOBILE REP TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED, ALL ITEMS NOT PROVIDED SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR CONTRACTOR WILL INSTALL ALL ITEMS PROVIDED.

- CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH T-MOBILE SPECIFICATIONS AND REQUIREMENTS.
- 24.
- GENERATORS & LIQUID PROPANE TANK
- TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS TRANSMISSION LINE GROUND KITS
- HANGERS HOISTING GRIPS

- 29. 28.
- ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSI/EI/A/TIA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS.

32

- CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.

- 14 CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE T-MOBILE CONSTRUCTION MANAGER.
- 6 WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE T-MOBILE REP AND ENGINEER OF RECORD
- CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
- CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
- CONTRACTOR SHALL FURNISH T-MOBILE AND AMERICAN TOWER CORPORATION (ATC) WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.

- PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH T-MOBILE REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY T-MOBILE MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
- CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO T-MOBILE FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO T-MOBILE SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- CONTRACTOR SHALL NOTIFY T-MOBILE REP A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND APPROVAL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.
- DAMAGE CAUSED BY NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION. THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE, ALL EXISTING FACILITIES AND SUCH OF HIS NEW WORK LABLE TO INJURY DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS
- 30. ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE T-MOBILE REP. ANY WORK FOUND BY THE T-MOBILE REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS
- 31 IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIAS LISTED HEREINAFTER BY MANUFACTURER'S NAMES ANDIOR MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS AS SPECIFIED.
- T-MOBILE FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE T-MOBILE WARREHOUSE, NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, NUCRATE, PROTECTED AND INSTALLED BY THE CONTRACTOR WITH ALL APPURTENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP.
- T-MOBILE OR HIS ARCHITECTENSINEER RESERVES THE RIGHT TO REJECT ANY EQUIPMENT OR MATERIALS WHICH, IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, EITHER BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIRMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIRMENTS BY THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO T-MOBILE OR THEIR ARCHITECT/ENGINEER.

STRUCTURAL STEEL NOTES:

- STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS."
- STRUCTURAL STEEL ROLLED SHAPES, PLATES AND BARS SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS:
- Þ ASTM A-572, GRADE 50 - ALL W SHAPES, UNLESS NOTED OR A992 OTHERWISE
- (SQUARE, RECTANGULAR, AND ROUND)
- ASTM A-325, TYPE SC OR N ALL BOLTS FOR CONNECTING STRUCTURAL MEMBERS

- ALL ANCHOR BOLTS, UNLESS NOTED OTHERWISE

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ASTM F-1554 07

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- ALL EXPOSED STRUCTURAL STEEL MEMBERS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A13. EXPOSED STEEL HARDWARE AND ANCHOR BOLTS SHALL BE GALVANIZED PER ASTM A153 OR B698.
- ALL FIELD CUT SURFACES, FIELD DRILLED HOLES AND GROUND SURFACES WHERE EXISTING PAINT OR GALVAWIZATION REMOVAL WAS REQUIRED SHALL BE REPAIRED WITH (2) BRUSHED COATS OF ZRO GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURER'S RECOMMENDATIONS.
- DO NOT DRILL HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.
- CONNECTIONS
- ALL WELDING TO BE PERFORMED BY ANYS CERTIFIED WELDERS AND CONDUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS WELDING CODE D1.1.

- ALL WELDS SHALL BE INSPECTED VISUALLY, 25% OF WELDS SHALL BE INSPECTED WITH DYE PENETRANT OR MAGNETIC PARTICLE TO MEET THE ACCEPTANCE CRITERIA OF AWS D.1. REPAIR ALL WELDS AS NECESSARY.
- IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE BURNINGAMELDING PERMITS AS REQUIRED BY LOCAL GOVERNING AUTHORITY AND IT REQUIRED SHALL HAVE FIRE DEPARTMENT DETAIL FOR ANY WELDING ACTIVITY.
- ALL ELECTRODES TO BE LOW HYDROGEN, MATCHING FILLER METAL, PER AWS D1.1, UNLESS NOTED OTHERWISE.
- MINIMUM WELD SIZE TO BE 0.1875 INCH FILLET WELDS, UNLESS NOTED OTHERWISE.
- PRIOR TO FIELD WELDING GALVANIZING MATERIAL, CONTRACTOR SHALL GRIND OFF GALVANIZING X* BEYOND ALL FIELD WELD SURFACES, AFTER WELD AND WELD INSPECTION IS COMPLETE, REPAIR ALL GROUND AND WELDED SURFACES WITH ZRC GALVLITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING ANDIOR BRACING WHERE REQUIRED DURING CONSTRUCTION UNTIL ALL CONNECTIONS ARE COMPLETE.
- ANY FIELD CHANGES OR SUBSTITUTIONS SHALL HAVE PRIOR A THE ENGINEER, AND T-MOBILE PROJECT MANAGER IN WRITING

WORK INCLUDED:

- INSTALL ANTENNAS AS INDICATED ON DRAWINGS AND T-MOBILE SPECIFICATIONS.

18

17.

ALL SLAB CONSTRUCTION SHALL BE CAST MONOLITHICALLY WITHOUT HORIZONTAL CONSTRUCTION JOINTS, UNLESS SHOWN IN THE CONTRACT DRAWINGS.

16.

PRACTICE FOR DETAILING REINFORCED

LL CONFORM TO "ACI MANUAL OF STANDARD CONCRETE STRUCTURES" (ACI 315).

SPLICING OF REINFORCEMENT IS PERMITTED ONLY AT LOCATIONS SHOWN IN THE CONTRACT DRAWNIOS OR AS ACCEPTED BY THE ENGINEER. UNLESS OTHERWISE SHOWN OR NOTED REINFORCING STEEL, SHALL BE SPLICED TO DEVELOP ITS FULL TENSILE CAPACITY (CLASS A) IN ACCORDANCE WITH ACI 318.

ALL CONCRETE SHALL HAVE A "SMOOTH FORM FINISH."

19

- CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SWEEP TESTS USING ANRITZU-PACKARD 8713B RF SCALAR NETWORK ANALYZER. SUBMIT FREQUENCY

22

SLAB ON GROUND: COMPACT STRUCTURAL FILL TO 95% DENSITY AND THEN PLACE 6" GRAVEL BENEATH SLAB.

ALL REINFORCEMENT SHALL BE SECURELY TIED IN PLACE TO PREVENT DISPLACEMENT BY CONSTRUCTION TRAFFIC OR CONCRETE. TIE WIRE SHALL BE OF SUFFICIENT STRENGTH FOR INTENDED PURPOSE, BUT NOT LESS THAN NO. 18 GAUGE.

BAR SUPPORTS SHALL BE ALL-GALVANIZED METAL WITH PLASTIC TIPS.

SPLICES OF WMF, AT ALL SPLICED EDGES, SHALL BE SUCH THAT THE OVERLAP MEASURED BETWEEN OUTERMOST CROSS WIRES OF EACH FABRIC SHEET IS NOT LESS THAN THE SPACING OF THE CROSS WIRE PLUS 2 INCHES, NOR LESS THAN 6".

LOCATION OF ALL CONSTRUCTION JOINTS ARE SUBJECT TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, CONFORMANCE WITH ACI 318, AND ACCEPTANCE OF THE ENGINEER DRAWNINGS SHOWING LOCATION OF DETAILS OF THE PROPOSED CONSTRUCTION JOINTS SHALL BE SUBMITTED WITH REINFORCING STEEL PLACEMENT DRAWNINGS.

21. 20.

- ANTENNA AND COAXIAL CABLE GROUNDING:
- ALL EXTERIOR #6 GREEN GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR
- ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS).

CONCRETE AND REINFORCING STEEL NOTES:

- DESIGN AND CONSTRUCTION OF ALL CONCRETE ELEMENTS SHALL CONFORM TO THE LATEST EDITIONS OF ALL APPLICABLE CODES INCLUDING; ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS; ACI 117 "SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS", AND ACI 318 "BUILDING CODE
- MIX DESIGN SHALL BE APPROVED BY T-MOBILE REP PRIOR TO PLACING CONCRETE.
- CONCRETE SHALL BE NORMAL WEIGHT, 6 % AIR ENTRAINED (+/- 15%) WITH A SLUMP RANGE OF 3-6" AND HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI UNLESS OTHERWISE NOTED.

- THE FOLLOWING MATERIALS SHALL BE USED:
- WELDED WIRE FABRIC: REINFORCEMENT BARS NORMAL WEIGHT AGGREGATE: ADMIXTURES: PORTLAND CEMENT: ASTM C33 ASTM A185, PLAIN STEEL WELDED WIRE FABRIC ASTM A185 ASTM C 94/C 94M ASTM A615, GRADE 60, DEFORMED
- -WATER-REDUCING AGENT: ASTM C 260/C 260M ASTM C 494/C 494M, TYPE A

SUPERPLASTICIZER: -AIR-ENTERING AGENT:

ASTM C494, TYPE F OR TYPE G

INSTALLATION OF CONCRETE EXPANSIONWEDGE ANCHOR SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL, OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDENTON FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS, NO REBAR SHALL BE CUT WITHOUT PRIOR APPROVAL FROM AN ATC ENGINEER WHEN DRILLING HOLES IN CONCRETE.

A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE IN ACCORDANCE WITH ACI 301 SECTION 4.2.4, UNLESS NOTED OTHERWISE.

ORCING STEEL SHALL BE NO LESS THAN 3".

ASTM C 494/C 494M, TYPE B

10

ALL DOWELS, ANOHOR BOLTS, EMBEDDED STEEL, ELECTRICAL CONDUITS, PIPE SLEEVES, GROUNDS AND ALL OTHER EMBEDDED ITEMS AND FORMED DETAILS SHALL BE IN PLACE BEFORE START OF CONCRETE PLACEMENT.

DO NOT WELD OR TACK WELD REINFORCING STEEL

ADMIXTURES SHALL CONFORM TO THE APPROPRIATE ASTM STANDARD AS REFERENCED IN "METHOD 1" OF ACI 301.

3 12

FOR COLD-WEATHER (ACI 306) AND HOT-WEATHER (ACI 301M) CONCRETE PLACEMENT, CONFORM TO APPLICABLE ACI CODES AND RECOMMENDATIONS. IN EITHER CASE, MATERIALS CONTAINING CHLORIDE, CALCIUM, SALTS, ETC, SHALL NOT BE USED, PROTECT FRESH CONCRETE FROM WEATHER FOR 7 DAYS, MINIMUM.

DO NOT PLACE CONCRETE IN WATER, ICE, OR ON FROZEN GROUND.

WHENEVER BENDING IS REQUIRED

D REV.

SPECIAL CONSTRUCTION ANTENNA INSTALLATION NOTES:

- ANTENNA AND COAXIAL CABLES ARE FURNISHED BY T-MOBILE UNDER A SEPARATE CONTRACT, THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL
- INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS
- INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE AND PROVIDE PRINTOUT OF THAT TEST.
- DOMAIN REFLECTOMETER(FDR) TESTS RESULTS TO THE PROJECT MANAGER, SWEEP TESTS SHALL BE AS PER ATTACHED RFS "MINIMUM FIELD TESTING RECOMMENDED FOR ANTENNA AND HELAX COXXIAL CABLE SYSTEMS" DATED 10/5/93. TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING SERVICE AND BE BOUND AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.
- INSTALL COAXIAL CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.
- ELECTRICAL NOTES:
- ELECTRICAL WORK SHALL BE PERFORME CONTRACTOR SHALL ENSURE THAT ALL I AND STATE CODES AND NATIONAL ELECT ED BY ELECTRICAL CONTRACTOR. ELECTRICAL WORK COMPLIES WITH ALL APPLICABLE LOCAL TRICAL CODE.
- ALL SUGGESTED ELECTRICAL ELEMENTS (SUCH AS BREAKER SIZES, WIRE SIZES, CONDUITS SIZES), ARE FOR ZONING PURPOSES ONLY, IT IS THE RESPONSIBILITY TO OF THE ELECTRICAL, CONTRACTOR TO CONFIRM COMPENAVE MITH LOCAL ELECTRICAL CODES AND PASS ALL APPLICABLE AND NECESSARY INSPECTIONS IN SOME EVENTS, IT MAY BE NECESSARY TO PERFORM AN ELECTRICAL LOAD STUDY TO VERIFY THE CAPACITY OF THE EXISTING SERVICE. THIS IS NOT THE RESPONSIBILITY OF ATC. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- CONTRACTOR SHALL FIELD LOCATE ALL UTILITY LINES PRIOR TO CONSTRUCTION . BELOW GRADE GROUNDING CABLES AND
 N. CONTRACTOR IS RESPONSIBLE FOR
 JUNDING LINES THAT MAY BECOME DISTURBED
 DISTRUCTION.

FAILURE TO COMMUNICATE DI ANY CHANGES FROM THE DES APPROVAL FROM ATC EN RESPONSIBILITY OF TH ALL DISCREPANCIES FROM WHAT IS SHOWN ON THESE CONSTRUCTION DRAWINGS SHALL BE COMMUNICATED TO ATC ENGINEERING IMMEDIATELY FOR CORRECTION OR RE-DESIGN. SAILURE TO COMMUNICATE DIRECTLY WITH ATC ENGINEERING OR ANY CHANGES FROM THE DESIGN CONDUCTED WITHOUT PRIOR APPROVAL FROM ATC ENGINEERING SHALL BE THE SOLE HE GENERAL CONTRACTOR.

AMERICAN TOWER®

B+T GRP

DESCRIPTION PRELIM 1717 S. BOULDER SUITE 300 TULSA, OK 74119 PH: (918) 587-4630 www.btgrp.com YMK 2/16/22 ΥВ DATE

CONSTRUCTION ATC SITE NUMBER: YMK 3/21/22

2544

ATC SITE NAME: ELLISVILLE FL T-MOBILE SITE NAME:

9JK2337S

SITE ADDRESS:

US HIGHWAY 41 LAKE CITY, FL 32025

SEAL:

CHARLE OF STATE OF A S

B&T ENGINEERING, INC.

Mobile*

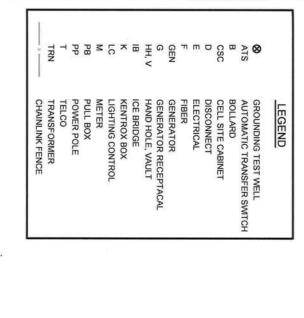
ATC JOB NO: CUSTOMER #: 9JK2337S CUSTOMER ID: DATE DRAWN: 2/15/22 9JK2337S 2544-13765353_G4_02-CD

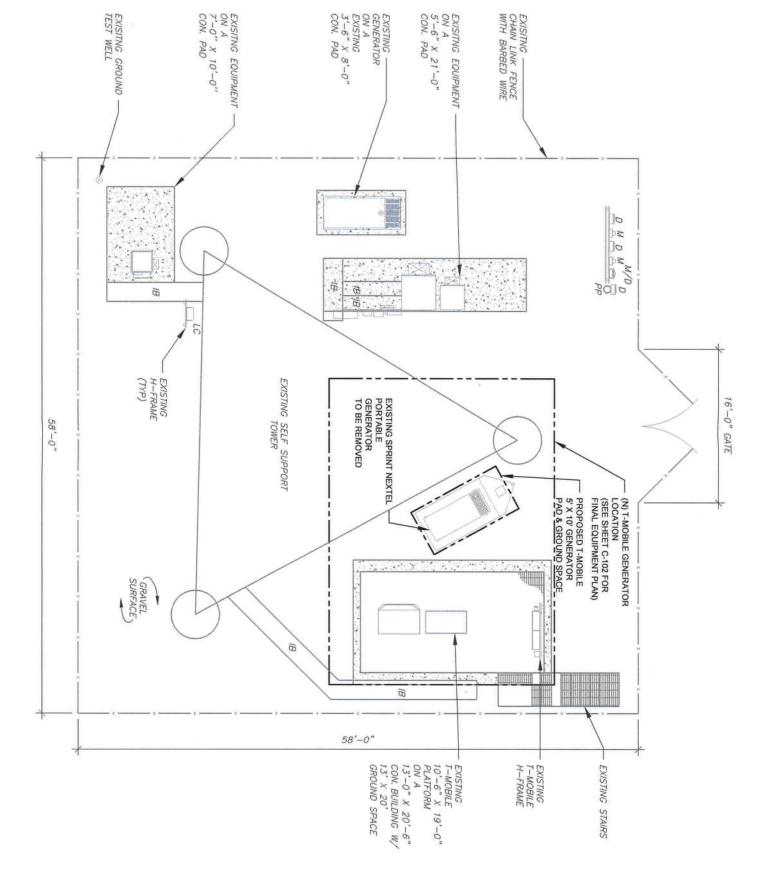
GENERAL NOTES

SHEET NUMBER:

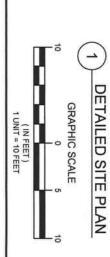
SITE PLAN NOTES:

- THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
- ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.
- NO ELECTRICAL SCOPE IS INCLUDED IN THIS PROJECT.





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B+T GR 1717 S. BOULDER SUITE 300 TULSA, OK 74119 PH: (918) 587-4630 www.blgrp.com	AMERICAN TOWER

DESCRIPTION	
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ATC SITE NAME: ELLISVILLE FL

T-MOBILE SITE NAME:

9JK2337S SITE ADDRESS:

SEAL:

US HIGHWAY 41 LAKE CITY, FL 32025

ATC SITE NUMBER: 2544

CONSTRUCTION YMK 2/16/22 YMK 3/21/22

DATE

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DETAILED SITE PLAN

DATE DRAWN: 2/15/22
ATC JOB NO: 2544-13765353_G4_02-CD
CUSTOMER ID: 9JK2337S

T. Mobile

B&T ENGINEERING, INC.

CUSTOMER #: 9JK2337S

C-101 SHEET NUMBER:

ω 4 2 SITE PLAN NOTES: CONTRACTOR TO VERIFY THERE IS NO LIVE AAV FIBER RUNNING THROUGH EXISTING DEAD EQUIPMENT. IF SO, THIS WILL NEED TO BE RERUN THROUGH CONDUIT PRIOR TO REMOVING DEAD 2G (6201 CABS) EQUIPMENT. ALL UNNEEDED / EXCESS EQUIPMENT AND GARBAGE TO BE REMOVED FROM EQUIPMENT AREA DISPOSE OF MATERIALS PROPERLY OFF SITE. REMOVE EXISTING 2G CABINETS, AND POWER / TELCO WHIPS ASSOCIATED WITH THE DEAD EQUIPMENT IF APPLICABLE. ALL OPEN PORTS NEED TO BE SEALED / WEATHERPROOFED PROPERLY (1) 1" PVC SCH 40 CONDUIT WITH (5) CAT5 CABLES (1) 1-1/2" PVC SCH 40 CONDUIT WITH (3) 1/0 WITH #6 GND FINAL EQUIPMENT PLAN FIRE 30" CLEARANCE ZONE PER N.E.C. 5'-5" OFF 0 00 ON A 13'-0" X 20'-6" CON. BUILDING W/ 13' X 20' GROUND SPACE EXISTING T-MOBILE 10'-6" X 19'-0" PLATFORM (1) 2" PVC SCH 40 CONDUIT WITH (3) 3/0 WITH #6 GND (1) 1" PVC SCH 40 CONDUIT WITH (6) #12 (3-H/3-N) WITH #12 GND EMERGENCY SHUT-OFF SWITCH (1) 1" PVC SCH 40 CONDUIT WITH (5) CATS CABLES E T-MOBILE PPC

POWER ROUTING KEYED NOTES:

(E) T-MOBILE A/C BREAKER PANEL/MANUAL TRANSFER SWITCH

INTERCEPT (E) CONDUIT AND CONDUCTORS AND RE-ROUTE THROUGH NEW ATS ($\pm 30^{\circ}-0^{\circ}$). COORDINATE PATH WITH CONSTRUCTION MANAGER

(E) T-MOBILE AC PPC

NEW T-MOBILE UNDERGROUND GENERATOR CONDUIT ROUTE ($\pm 15^{\circ}-0^{\circ}$). CONTRACTOR PRIOR TO EXCAVATION. SEE SHEETS E-501, E-502 TO LOCATE (E) UTILITIES

GENERATOR KEYED NOTES:

NEW T-MOBILE RD048 DIESEL GENERATOR W/ SOUND ATTENUATED ENCLOSURE, NORMAL/EMERGENCY TANK ON A CONCRETE PAD.
SEE SHEETS C-103, C-104, G-1.

FUEL FILL SHALL BE PROVIDED WITH SPILL CONTROL, WITH A SOLID FILL CONNECTION, PREVENTION. AND WITH OVERFILL

FUEL TANK NORMAL AND EMERGENCY VENTS SHALL TERMINATE AT LEAST 12'-0" ABOVE THE ADJACENT GRADE. SEE SHEET C-104.

ATS/EQUIPMENT KEYED NOTES:

NFPA 704 PLACARD AND OTHER SIGNAGE. SEE SHEET C-104.

FIRE EXTINGUISHER, (2A-20BC OR APPROVED EQUAL) PER IFC 906.3 IN FIRE EXTINGUISHER CABINET (BFC-7009 OR APPROVED EQUAL), MOUNTED TO BUILDING WALL OR UTILITY FRAME PER IFC 906.9 (5'-0" MAX ABOVE GRADE)

EMERGENCY SHUTOFF SWITCH. MOUNT TO BUILDING WALL OR UTILITY FRAME PER IFC ABOVE GRADE) 906.9 (5'-0" MAX

NEW ATS W/ CAMLOCK MOUNTED ON NEW UTILITY FRAME UNISTRUT RAILS WITH 36° SHEET C-104. FRONT CLEARANCE, SEE

NEW UTILITY FRAME WITH UNISTRUT RAILS. SEE SHEET C-104.





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ATC SITE NUMBER	CONSTRUCTION	PRELIM	DESCRIPTION
יא	YMK	YMK	ВҮ
	YMK 3/21/22	2/16/22	DATE

ATC SITE NAME: ELLISVILLE FL T-MOBILE SITE NAME: 9JK2337S

SEAL:

US HIGHWAY 41 LAKE CITY, FL 32025 SITE ADDRESS:

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B&T ENGINEERING, INC.

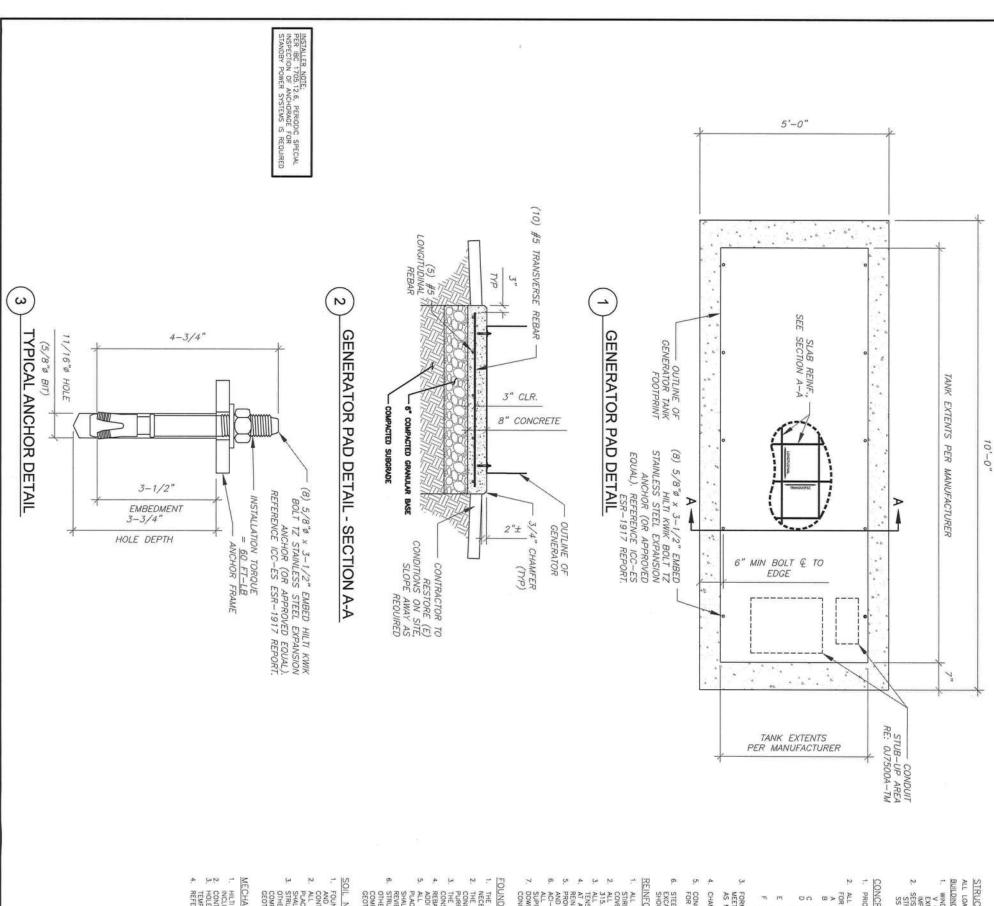
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ATC JOB NO: 2544-13765353_G4_02-CD
CUSTOMER ID: 9JK2337S
CUSTOMER #: 9JK2337S DATE DRAWN: 2/15/22 T. Mobile

FINAL EQUIPMENT PLAN

C-102 SHEET NUMBER:



ALL LOADS DERIVED FROM REQUIREMENTS OF

BUILDING & COMMUNICATION STRUCTURES THE INTERNATIONAL BUILDING CODE, ASCE 7.

WIND LOADS: IBC 2018 & ASCE 7-16
V = 94 MPH ULTIMATE WIND SPEED
EXPOSURE CATEGORY = C. TOPOGRAPHIC CATEGORY
MPORTANCE FACTOR = 1.0.
SESMIC LOADS: IBC 2018 & ASCE 7-16
STRUCTURE CLASS = II; SITE CLASS = 0.
SS = 0.36; S1 = 0.188; SDS = 0.363

PRIOR TO EXCAVATION, CHECK THE AREA FOR UNDERGROUND FACILITIES

ALL CONCRETE SHALL BE IN ACCORDANCE WITH CHAPTER 19 OF THE IBC & ACI 318, "BUILDING CODE REQUIREMEN FOR REINFORCED CONCRETE", LATEST EDITION & HAVE THE FOLLOWING PROPERTIES:

A MININUM 7-DAY COMPRESSIVE STREAKGH ("C) OF 2,500 PSI.

B CEMENT SHALL BE "LOW-ALKALL" TYPE IIA (MODERATE SULFATE RESISTANCE, AIR ENTRAINING) CONFORMING TO ASTM C150.

C MAXIMUM MATER/CENENT RATIO OF 0.45 AND AIR-ENTRAINED 4% TO 7%.

C MAXIMUM MATER/CENENT RATIO OF 0.45 AND AIR-ENTRAINED 4% TO 7%.

C MAXIMUM MATER/CENENT RATIO OF 0.45 AND AIR-ENTRAINED 4% TO 7%. "BUILDING CODE REQUIREMENTS

MAXMUM WAITER/CEMENT RATIO OF 0.45 AND AIR-ENTRAINED 4% TO 7%.

CONCRETE PROPORTIONING SHALL BE DESIGNED BY AN APPROVED LABORATORY, TOLERANCES IN ACCORDANCE WITH ACL 117, COPIES OF CONCRETE MIX SHALL BE SUBMITTED TO THE CROWN CASTLE CONSTRUCTION MANAGER FOR REVIEW PRICE TO THE CROWN FOR TO PLOCEMENT.

ALL AGGREGATE USED IN CONCRETE SHALL CONFORM TO ASTM C33, USE ONLY AGGREGATES KNOWN NOT TO CAUSE EXCESSIVE SHRINKAGE, MAXMUM AGGREGATE SIZE TO BE 3/4*, MAXMUM SLUMP; REFER TO GEOTECHNICAL REPORT FOR CONFIRMATION OF ANY ASSUMPTIONS MADE DURING DESIGN.

CONSTRUCTION

YMK 3/21/22 YMK 2/16/22 ВΥ

ATC SITE NUMBER:

2544

ELLISVILLE FL F-MOBILE SITE NAME:

ATC SITE NAME:

DESCRIPTION

DATE

PRELIM

FORMWORK FOR CONCRETE SHALL CONFORM TO ACI 347, TOLERANCES FOR FINISHED CONCRETE SURFACES SHALL MEET CLASS—C REQUIREMENTS. IN NO CASE SHALL FINISHED CONCRETE SURFACES EXCEED THE FOLLOWING VALUES AS MEASURED FROM NEAT PLAN LINES AND FINISHED GRADES: \pm 1/4" VERTICAL, \pm 1" HORIZONIAL.

CHAMFER ALL EXPOSED CORNERS AND FILLET ENTRANT ANGLES 3/4" U.N.O.

CONCRETE FINISHING: CONCRETE SURFACES SHALL BE FINISHED IN ACCORDANCE WITH ACI. PROVIDE ROUGH FINISH FOR ALL SURFACES NOT EXPOSED TO VIEW AND SMOOTH FINISH FOR ALL OTHERS, U.N.O.

REINFORCING STEEL NOTES: STEEL REINFORCEMENT AND CONFRETE SHOULD BE PLACED IMMEDIATELY UPON COMPLETION OF THE FOUNDATION EXCAMITION. CONTRACTOR SHALL NOT ALLOW A COLD JOINT TO FORM IN THE COMPRETE PROTION AT GRADE SHOULD BE FORMED. TEMPORARY CASING MAY BE REQUIRED TO PRECENT CANNO PRIGHT OF CONCRETE PLACEMENT.

ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615. VERTICAL/HORIZONTAL BARS S STIRRUPS SHALL BE A MINIMUM OF GRADE 40. ALL REINFORCING STEEL SHALL HAVE 3" CONFORM IN THE STREET OF THE STANKE STANKES IN THE STANKES IN " (± 3/8") OF CONCRETE

SEAL:

US HIGHWAY 41 LAKE CITY, FL 32025

SITE ADDRESS:

9JK2337S

COVER, U.M.O.

ALL BAR BENDS, HODGE, SPLICES AND OTHER REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ACI
315.

ALL BARS SHALL BE SPLICED WITH A MINIMUM LAP OF 48 BAR DIAMETERS, LAP SPLICES OF DEFORMED BARS IN
AT ALL CORNERS AND WALL INTERSECTIONS, PROVIDE BENT HORIZONTAL BARS TO MATCH THE HORIZONTAL
REINFORCING STEEL.
PROVIDE VERTICAL DOWELS IN FOOTINGS AND AT CONSTRUCTION JOINTS TO MATCH VERTICAL REINFORCING STEEL
AND SPACING,
ACI_APPROVED PLASTIC—COATED BAR CHAIRS OR PRECAST CONCRETE BLOCKS SHALL BE PROVIDED FOR SUPPORT OF
ALL CRANDE—CAST REINFORCING STEEL & SHALL BE SUFFICIENT IN NUMBER TO PREVENT SAGGING. METAL CLIPS OR
SUPPORTS SHALL NOT BE PLACED IN CONTACT WITH THE FORMS OR THE SUB-GRADE.
DOWELS AND ANCHOR BOLTS SHALL BE WIRED OR OTHERWISE HELD IN CORRECT POSITION PRIOR TO PLACING
CONCRETE. IN NO CASE SHALL DOWELS OR ANCHOR BOLTS BE "STABBED" INTO FRESHLY-POURED CONCRETE.

FOUNDATION NOTES:

THE CONTRACTOR SHALL READ THE GEOTECHNICAL REPORT AND SHALL CONSULT THE GEOTECHNICAL ENGINEER AS NECESSARY PRIOR TO CONSTRUCTION.

THE GEOTECHNICAL ENGINEER (OR INSPECTOR) SHALL INSPECT THE EXCAVATION PRIOR TO THE PLACEMENT OF CONCRETE AND SHALL PROVIDE A NOTICE OF INSPECTION FOR THE BUILDING INSPECTOR FOR REVIEW AND RECORDS INSPECTOR.

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THE CONTRACTOR SHALL DETERMINE THE MEANS AND METHODS NECESSARY TO SUPPORT THE EXCAVATION DURING CONSTRUCTION.

CONSTRUCTION.

REBAR AT BOTTOM OF FOUNDATIONS SHALL BE BONDED TO SITE GROUNDING SYSTEM (WHEN APPLICABLE). SEE ADDITIONAL DETMLS ON APPROVED ASE CONSTRUCTION DEAMINGS.

ALL FOOTINGS TO BE PLACED ON FIRM, UNDISTURBED, INORGANIC MATERIAL, PROOF ROLL SUB-GRADE PRIOR TO PLACING CONCRETE WHERE THE MATERIAL HAS BEEN DISTURBED BY EQUIPMENT, UNACCEPTABLE/DISTURBED MATERIAL SHALL BE OVER-EXCAVATED AND REPLACED WITH "LEN CONCRETE FILL". THE GEOTECHNICAL REPORT SHALL BE REVIEWED AND ADHERD TO FOR SECOTIC RECOMMENDATIONS.

STRUCTURAL BACKFILL SHALL BE GRANULAR FREE-DRANNING MATERIAL FREE OF DEBRIS, ORGANICS, REFUSE AND OTHERWISE DELETERIOUS MATERIALS, MATERIAL SHALL BE PLACED IN LITTS NO GREATER THAN 6" IN DEPTH AND CONCRETE THAN SATURDATIONS.

FOUNDATION DESIGN BASED ON THE PRESUMPTIVE MINIMUM SOIL PARAMETERS IN ACCORDANCE WITH THE IBC, CBC AND THA, WHEN A SITE SPECIFIC GEOTECHNICAL REPORT IS AMILIBLE ON COSITES AND THE ENGINEER AND THE CONTRACTOR SHALL APPERE TO ALL RECOMMENDATIONS PROVIDED THEREIN. AMTERIAL PROOF ROLL SUB-GRADE PRIOR TO PLACING CONCRETE WHERE THE MATERIAL HAS BEEN DISTURBED, NORGANIC MATERIAL, UNDICCEPTER WHERE THE MATERIAL HAS BEEN DISTURBED BY EQUIPMENT, UNDICCEPTER WHERE THE MATERIAL HAS BEEN DISTURBED BY EQUIPMENT, UNDICCEPTER WHERE THE MATERIAL HAS BEEN PRIOR TO STRUBBED TO FORWARD AND REPUACED WITH STRUCTURAL BACKFILL SHALL BE CONTRALL BE CONTRACTED TO STRUBBED AND REPUACED WITH STRUCTURAL BACKFILL SHALL BE REPUACED WITH STRUCTURAL HAS BEEN HERE OF DEBRIS, ORGANICS, REFUSE AND OTHERWISE DELETERIOUS MATERIAL. SHALL BE PUACED IN LITTS NO GREATER THAN 6" IN DEPTH AND COMPACTED TO SESS OF MAXIMUM DESITY AS DETERMINED PER ASTIM DISSO GREATER THAN 6" IN DEPTH AND COMPACTED TO SESS OF MAXIMUM DESITY AS DETERMINED FOR ASTIM DISSO (MODIFIED PROCTOR). THE

ANCHOR NOTES:

NSTALLATION INSTRUCTIONS, AS

1. HILTI PRODUCTS MUST BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S PRINTED IN INCLUDED IN THE ADHESINE PACKAGING.
2. CONTRACTOR SHALL AVOID DRILLING HOLES IN VERTICAL/HORIZONTAL REINFORCING BARS.
3. HOLES MUST BE WIRE BRUSHED AND BLASTED WITH COMPRESSED AIR PRIOR TO INSTALL SUBJECT TO THE BRUSHED AND BLASTED WITH COMPRESSED AIR PRIOR TO INSTALL SUBJECT TO BE IN ACCORDANCE WITH MANUFAC A REFERENCE ICC-ES ESR-1917 REPORT. LATION. ACTURER SPECIFICATIONS.

T. Mobile

B&T ENGINEERING, INC.

ATC JOB NO: CUSTOMER #: 9JK2337S CUSTOMER ID: DATE DRAWN: 2/15/22 9JK2337S 2544-13765353_G4_02-CD

GENERATOR PAD SHEET NUMBER: DETAILS

REVISION:

C-103

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AMERICAN TOWER®

211 GALLONS FLAMMABLE DIESEL FUEL DANGER LIQUIDS

PLACE ON (2) VISIBLE SIDES OF NEW GENERATOR TANK 15" x 12" SIGN



PLACE ON VISIBLE SIDE OF NEW GENERATOR TANK

PLACE ON (2) VISIBLE SIDES OF NEW GENERATOR TANK 18" x 18" SIGN

CONTRACTOR TO PROVIDE REQUIRED SIGNAGE FOR ELECTRICAL PANELS, DISCONNECTS, TRANSFER SWITCHES, ETC. PER NATIONAL ELECTRICAL CODE ARTICLE 700.7

REQUIRED LABELING & SIGNAGE

FOR FUEL & OTHER ENVIRONMENTAL 1-800-KNOW-EHS) **EMERGENCIES** 1-800-566-9347 CALL EH&S

PLACE ON (2) VISIBLE SIDES OF NEW GENERATOR TANK 11" x 11" SIGN

EMERGENCY CONTACTS:

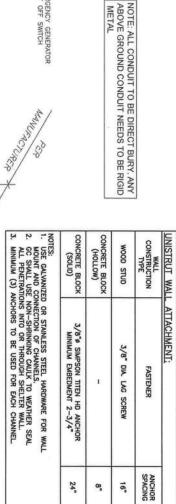
SITE OWNER CONTACT: NAME PHONE # (XXX) XXX-XXXX T-MOBILE CONTACT: NAME
PHONE # (XXX) XXX-XXXX

PLACE ON EXTERIOR OF EXISTING
SHELTER
OR NEAR EXISTING T-MOBILE
LEASE AREA

5" x 3" SIGN

SIGNAGE REQUIREMENTS

5'-0"



3" SCH 40 GALV. STEEL CAP PIPE W/ GALV. STEEL CAP (TYP)

AUTOMATIC TRANSFER SWITCH

CAM-LOCK BOX

SHUT OFF SWITCH

TRANSITIONING GROUND RE: 2/G-2

FINISHED GRADE NATURAL GRADE

MANUFACTURER

NEW AUTOMATIC TRANSFER SWITCH MOUNTED TO NEW UNISTRUT (CAM-LOCK NOT

SHOWN FOR CLARITY)

ALL UNISTRUT ENDS

1/2" GALV. -

- NEW P1000WT-HG UNISTRUT CHANNEL (TYP)

MOUNTING HOLE (4 TOTAL)

TIE INTO GROUND CONCRETE FOUNDATION

N

UTILITY FRAME ELEVATION
SCALE: NT.S.

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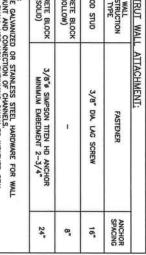
ATS MOUNTING DETAIL

SCALE: N.T.S.

NEW MECHANICAL DETAIL CONNECTION WITH #2
TO (E) GROUND ROD

1-5/8" P1000WT-HG
UNISTRUT MOUNTED TO
WALL OR TO NEW
UTILITY FRAME POST W/
FASTENER AT EACH END.
SEE UTILITY FRAME

1'-6"



DIESEL TANK CHECKLIST:

READILY ACCESSIBLE MANUAL SHUTOFF VALVES SHALL BE INSTALLED ON SUPPLY PIPING AT THE POINT OF USE AND THE TANK (PC 5003.2.2.1)

FANK (PC 5003.2.2.1)

SECONDARY CONTAINMENT—TYPE TANKS SHALL BE UL LISTED, UL—142, AND COMPLY WITH ALL OF THE FOLLOWING, CONTAINMENT MEASURES, SUCH AS DIKING, SHALL BE UTILIZED (NEPA 30.22.11.4)

FOR THE POINT OF DIESEL TANK SHALL NOT EXCEED 50.000 GAL.

FIPING CONNECTIONS SHALL BE ABOVE THE LOUDU LIVEL.

HEAMS SHALL BE PROVIDED TO PROTECT RELEASE OF LOUDU BY SPHON FLOW.

HEAMS TO DETERMINE LIQUID LEVEL IN TANK SHALL BE PROVIDED TO DRIVER. MEANS TO PREVENT OVERFILLING

BY AN ALARM AT 903 CAPACITY AND AUTOMATICALLY STOPPING

FOR VALVEN AND AUTOMATICALLY STOPPING

FOR ALARM AT 903 CAPACITY AND AUTOMATICALLY STOPPING

FOR STANK SHALL BE PROTECTED AGAINST DAMAGE FROM VEHICLES.

HINTEGRITY OF SECONDARY CONTAINMENT SHALL BE ESTABUSHED. THE SECONDARY CONTAINMENT SHALL WITHSTAND

THE HYDROGOSTATIC HAD OF THE MAXIMUM

THE HYDROGOSTATIC HAD OF THE MAXIMUM

THE HYDROGOSTATIC HAD OF THE MAXIMUM

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AMERICAN TOWER®

GENERATOR FEATURES:

THE FOLLOWING SIGNS AND LABELS SHALL BE AFFIXED TO THE TANK.

+ "DANGER-FLAMMABLE LIQUIDS" (IFC 5703.5)

+ NIPPA, 704 PJLCARD (IFC 5003.5)

+ "NO SMOKING" (IFC 5003.7.1)

+ EH&S

+ CONTACTS

+ CONTACTS

CRASH PROTECTION COMPLYING WITH FC 312 SHALL BE PROVIDED (IFC 5003.5)

ANK LABELING AND PROTECTIONS:

9.3) (IF APPLICABLE)

CONSTRUCTION

YMK 3/21/22 YMK 2/16/22 ВY

ATC SITE NUMBER:

2544

ATC SITE NAME: ELLISVILLE FL

T-MOBILE SITE NAME:

DESCRIPTION

DATE

1717 S. BOULDER SUITE 300 TULSA, OK 74119 PH: (918) 587-4630 www.bigrp.com

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PRELIM

GENERATORS SHALL BE UL 2200 LISTED AND COMPLY WITH NFPA 37 AND NFPA 110. (IFC 604.1 AND 604.1.1)
INSTALLATIONS SHALL HAVE A LABELED REMOTE MANUAL STOP (NFPA 110 5.6.5.6 & 5.6.5.6.1 AND NFPA 37 9.2.1.1)

DOUBLE WALL FUEL TANK BASE SPECIFICATION:

REF: T-MOBILE RD048 GENERATOR PACKAGE
UL REGISTRATION NUMBER: MH 18459
UL REGISTRATION NUMBER: MH 18459
UL 142 DOUBLE WALL FUEL TAKE BASE SPECIFICATION
FUEL TANK BASE CONSTRUCTION:
+ BE CONSTRUCTED IN ACCORDANCE WITH UNDERWRITERS LABORATORIES STANDARD UL-142. BE CONSTRUCTED IN + BE CONSTRUCTED IN ACCORDANCE WITH FUNDAMBLE CONDUCTION USE OF STATOMARY CONSUSTRIBLE ENGINE GAS TURBINES, NFPA 37; AND THE STANDARD FOR ENERGENCY STANDBY POWER STATOMARY CONSUSTRIBLE ENGINE GAS TURBINES, NFPA 37; AND THE STANDARD FOR ENERGENCY STANDBY POWER

SEAL:

US HIGHWAY 41 LAKE CITY, FL 32025

SITE ADDRESS: 9JK2337S

SYSTEMS, NEPA 110.

**NIMUM ANCHOR QUANTITY PER MANUFACTURER OR THIS PLAN SET; WHICHEVER IS LARGER.

**SUB BASE TANK TESTING: CONTAINMENT BASIN SECTIONS SHALL BE PRESSURZED AT 3-5 PSI AND FULL THAN & SECONDARY CONTAINMENT BASIN SECTIONS SHALL BE PRESSURZED AT 3-5 PSI AND FULL FULL 2.5 - 5 GALLON SPILL CONTAINMENT WITH ALARM

**ACT REMAINING FOR ALARM

**ACT REMAINING FOR SHUT-DOWN

**FACTORY PRE-SET AT 958 FULL FOR ALARM

**FUEL CONTAINMENT BASIN: FUEL SCAPE OF FUEL INTO THE ENVIRONMENT IN THE EVENT OF A TANK RUPTU NEPA NOTES: SIZED AT A MINIMUM OF 110% OF THE THE EVENT OF A TANK RUPTURE. A FUEL

FUEL TANK NOTES:

THE TANK SHALL BE MANUFACTURED WITH THE FOLLOWING:

NITERSTITIAL ELECTRONICALLY MONITORED RUPTURE BISIN

ALARM TO MONITOR THE SPACE BEWEEN THE PRIMARY AND SECONDARY TANK.

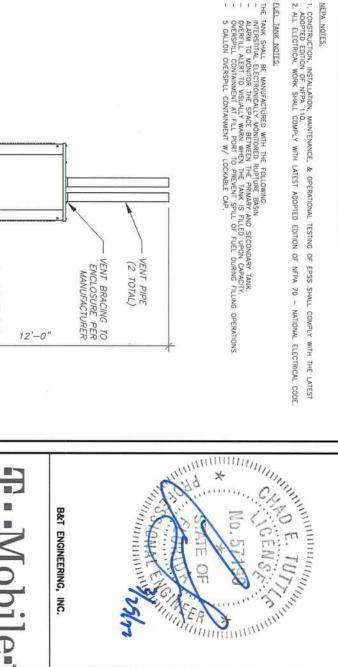
OVERPILL ALERT TO VISUALLY WARN WHEN THE TANK IS FILLED UPON CAPACITY.

OVERSPILL CONTAINMENT AT FILL PORT TO PREVENT SPILL OF FUEL DURING FILLING OPERATIONS.

5 GALLON OVERSPILL CONTAINMENT W/ LOCKABLE CAP.

W/ DIESEL FUEL
TANK ON
CONCRETE PAD - VENT BRACING TO ENCLOSURE PER MANUFACTURER VENT PIPE (2 TOTAL) 12'-0"

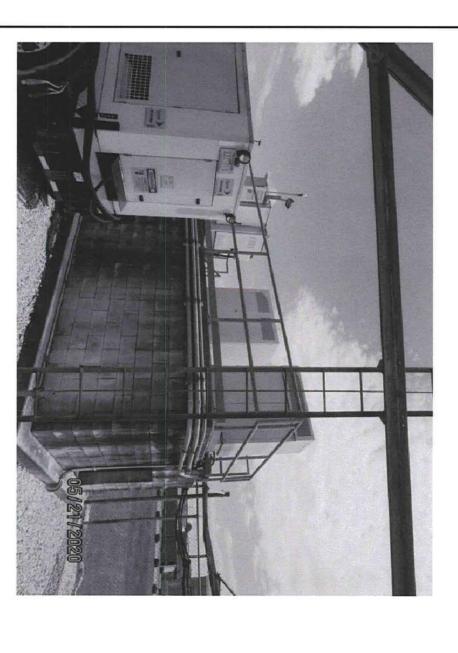




SIGNAGE REQUIREMENTS &	CUSTOMER#: 9JK2337S	CUSTOMER ID: 9JK2337S	ATC JOB NO: 2544-13765353_G	DATE DRAWN: 2/15/22	JOIN - IL
EMENTS &	337S	337S	2544-13765353_G4_02-CD	22	lobile.

EQUIPMENT DETAILS SHEET NUMBER: C-104 REVISION:

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3. ALL GROUNDING AND BONDING PER THE NEC.

ALL NEW CONDUCTORS TO BE INSTALLED SHALL BE COPPER. ALL CONDUCTORS SHALL BE THHW. THWN. THWN-2, XHHW, OR XHHW-2 UNLESS NOTED OTHERWISE.

INSTALLER NOTE:

NOTES:

CONTRACTOR IS TO FIELD VERIFY ALL EXISTING ITEMS SHOWN ON THE ELECTRICAL ONE-LINE DIAGRAM AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

1. THE GENERATOR SIZE HAS BEEN DETERMINED BY T-MOBILE BASED ON AN INTERNAL LOAD ANALYSIS OF THEIR EQUIPMENT. THE GENERATOR SIZE WAS PROVIDED AS PART OF THE SOCOHIG ANALYSIS. T-MOBILE STALL BE RESPONSIBLE FOR ENSURING THAT THEIR SYSTEM CONFIGURATION DOES NOT EXCEED THE MANUFACTURER POWER PATING OF THE SPECIFED GENERATOR. CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING A SPOT READING OF THE FAMEL AT PEAK OPERATING HOURS TO WERRY THE T-MOBILE PANEL SCHEDULE CACCULATIONS ARE NOT EXCEEDED. IN THE EVENT THE READING EXCEEDS THE CALCULATED PANEL SCHEDULE LOADS, RECORD THE READING AND CONSULT T-MOBILE ENGINEERING MANAGER PRIOR TO PROCEEDING WITH GENERAL TO PROCEEDING WITH

AMERICAN TOWER®

GENERATOR COMMUNICATION NOTE:

THE GENERATOR WILL BE MONITORED BY EXTERNAL ALARMS, CONDUIT AND CATS CABLES HAVE TO BE INSTALLED FROM THE H-1-100 CONTROLLERS LOW VOLTAGE BOX LOCATED IN THE GENERAC GENERATOR TO THE APPROPRATE CELL SITE EQUIPMENT, NOKIA FSEB OR FISE AND IN ERCESSON THE SAUL AT A NOKIA SITE, THIS CONNECTION IS AT THE FSEB OR AN FISEE MODILE. (THE FSEE IS THE NOKIA MODILE THAT WILL BE REPLACING THE FSEB, FOR DETAILS ON THE FSEE CONTACT: HONORIA MODILE THAT WILL BE REPLACING THE FSEB. FOR DETAILS ON THE FSEE CONTACT: HONORIACONSTRUCTOR SITE AND MODILE VIA OVER EXPANSION KITE FOR B EXTERNAL ALARMS. PRODUCT NUMBER: UTOVP—ALMBEXP.

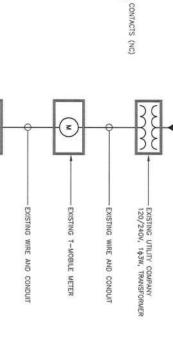
THE T-MOBILE STANDARD ALARMS FOR GENERATORS ARE:

1. GENERATOR RUNNING: AUX #1 ON THE RB3 OUTPUT BOARD

2. GENERATOR ALARM MSI: AUX #4 ON THE RB3 OUTPUT BOARD

3. ATS IN EMERGENCY POSITION: WILL COME FROM THE GTS AUXILLARY CONTACTS (NC)

4. GENERATOR ALARM CRITICAL: AUX # 2 ON THE RB3 OUTPUT BOARD



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YMK 2/16/22

DESCRIPTION

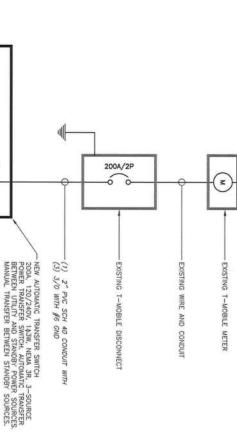
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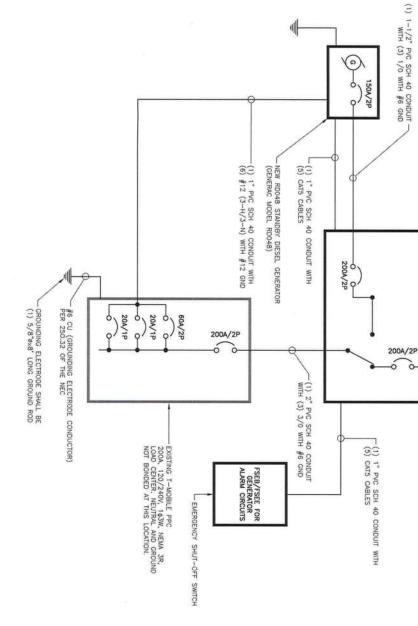
DATE

CONSTRUCTION

ATC SITE NUMBER:

2544





ATC SITE NAME: ELLISVILLE FL T-MOBILE SITE NAME: SITE ADDRESS: 9JK2337S

US HIGHWAY 41 LAKE CITY, FL 32025

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B&T ENGINEERING, INC.

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9JK2337S	CUSTOMER #:
9JK2337S	CUSTOMER ID:
2544-13765353_G4_02-CD	ATC JOB NO:
2/15/22	DATE DRAWN:

E-501 SHEET NUMBER:

ONE LINE DIAGRAM

PANEL PHOTO

SCALE: N.T.S.

2

ONE LINE DIAGRAM

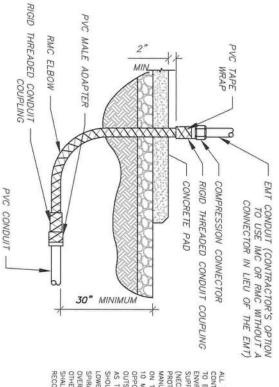
SCALE: N.T.S.

REVISION: 0

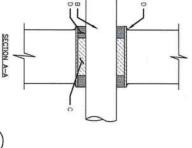
YMK 3/21/22

B+T GRP

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ALL METAL CONDUIT INSTALLED IN DIRECT CONTACT WITH THE EARTH SHALL BE CONSIDERED TO BE INSTALLED IN A SEVERELY CORROSION OF BE INSTALLED IN A SEVERELY CORROSION (NEC ARTICLE 342.10(B) & 334.10(B)(T)). THIS PROTECTION AGAINST CORROSION (NEC ARTICLE 342.10(B) & 334.10(B)(T)). THIS PROTECTION SHALL EITHER BE AN APPROVED MANUFACTURER INSTALLED PROTECTIVE COATING ON THE CONDUIT OR SHALL BE (2) LYCRES OF TO MIL PVC PIPE WRAP TAPE INSTALLED USING OPPOSING SHRAL WRAPS, ON VERTICAL PIPE THE OUTSIDE LYCRE OF TAPE SHALL BE WRAPPED SO AS TO PROVIDE SHEDDING OF WATER (I.e. TAPE SHOULD WRAP IN AN UPWARD DIRECTION WITH LOWER WRAP SHALL HAVE A MINIMUM OF 1/4" OVERLAP WRAPS SHALL BENGONE RECORD PROTECTION SHALL REQUIRE APPROVAL BY THE ENGINEER OF RECORD PROTECTION OF THE WRAPS OF THE ENGINEER OF THE WRAPS OF THE



BEARING THE UL CLASSIFICATION MARK

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. : CP601S,

CP604, CP606, OR FS-ONE SEALANT

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 CONATCT LOCATION BETWEEN PIPE AND CONCRETE. A MINIMUM 1/2" DIMMETER 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 DNLY WHEN CP601S OR CP604 SEALANT IS USED.

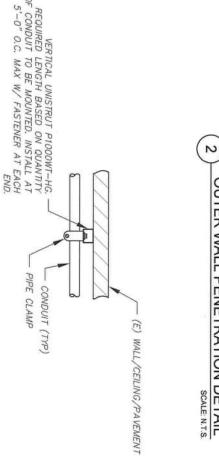
PACKING MATERIAL: MINIMUM 6" THICKNESS OF MIN 4.0 PCF MINERAL WOOL BATTING INSULATION FRAIL'Y PACKED INTO OPENING AS A PERMANENI FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.

OUTER WALL PENETRATION DETAIL SCALE: N.T.S.

CONDUIT STUB UP DETAIL
SCALE: NT.S.

INSTALLER NOTE:

BE USED IN PLACE OF COMPACTED SAND



FINISHED GRADE, OR -GROUND COVER MATCH SLOPE AND THICKNESS OF EXISTING

UNDISTURBED SOIL

CAUTION TAPE 12" MIN. DEPTH

OF

PIPE CLAMP

30" MIN. 24" MIN.

COMPACTED BACKFILL WITH
SATISFACTORY NATIVE OR
IMPORTED SOIL TO 95%
PROCTOR

COMPACTED SAND (SEE NOTE 1)

2" SCH 40 PVC -AUXILIARY POWER CONDUIT WITH PULL STRING

24" MIN.

- 1" SCH 40 POWER
CONDUITS CONDUIT
WITH 1BULL TRING PUC
ALARM CONDUIT WITH
PULL STRING

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TRENCH DETAIL

SCALE: N.T.S.

VERTICAL UNISTRUT P1000WTHG.
REQUIRED LENGTH BASED ON QUANTITY
OF CONDUIT TO BE MOUNTED. INSTALL
AT 5"-0" Q.C. MAX W/ FASTENER AT
EACH END. PIPE CLAMP (E) WALL/CEILING/PAVEMENT CONDUIT (TYP)

4 CONDUIT WALL MOUNT DETAIL SCALE: N.T.S.

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

INSTALLER NOTES:

CONDUIT THROUGH BEARING WALL SIMILAR TO
F RATING = 3 HR
T RATING = 0 HR U.L. DESIGN NO. U902

AMERICAN TOWER®

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 CLASSIFED CONCRETE BLOCKS: MAX DUMETER OF DEPENING IS 4". (SEE CONCRETE BLOCKS 9CATZ) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS. THROUGH PENETRATIONS: ONE METALLIC PIEC OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE ANNULAR SPACE SHALL BE MINIMAM O'. (POINT CONNOLT) TO MAXIMUM 1-3/8". THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR CONDUITS MAY BE USED: "DIAMETER (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL PIPE HOMINIAL 6" DIAMETER (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL PIPE B. RON PIPE-NOMINIAL 6" DIAMETER (OR SMALLER) STEEL DECTILE IRON PIPE.

C. CONDUIT - NOMINIAL 4" DIAMETER (OR SMALLER) STEEL CONDUIT.

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B+T GRP

ATC SITE NUMBER:

CONSTRUCTION

YMK 3/21/22 YMK 2/16/22 ВΥ

PEV.

PRELIM

DESCRIPTION

DATE

ATC SITE NAME: ELLISVILLE FL 2544

T-MOBILE SITE NAME:

9JK2337S

SITE ADDRESS: US HIGHWAY 41 LAKE CITY, FL 32025

SEAL:

CHOENS TO THE STONAL WILLIAM STONAL S

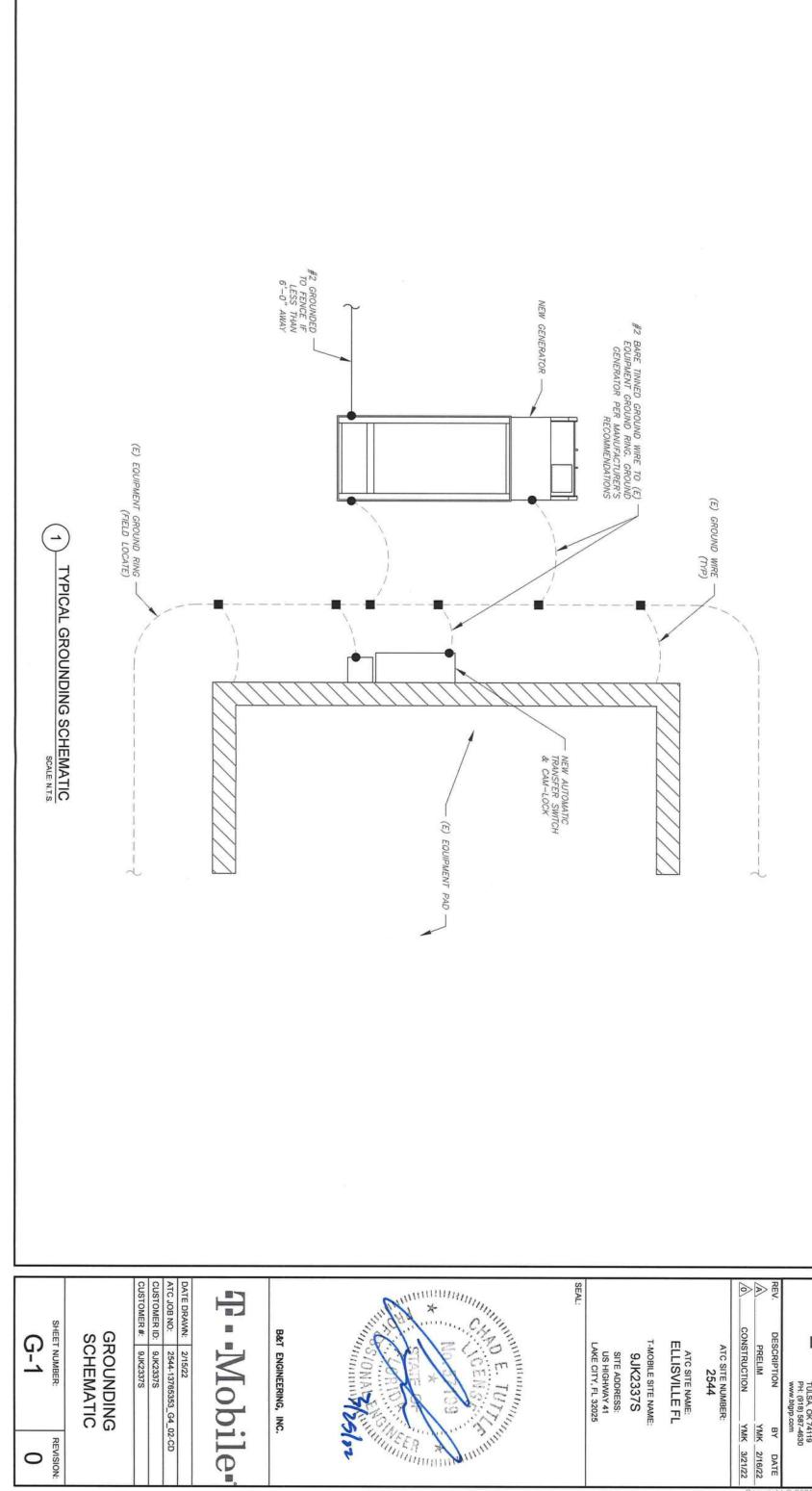
B&T ENGINEERING, INC.

1 - Mobile

DATE DRAWN: ATC JOB NO: CUSTOMER #: 9JK2337S CUSTOMER ID: 2/15/22 9JK2337S 2544-13765353_G4_02-CD

CONDUIT DETAILS E-502 SHEET NUMBER:

0



REVISION:

0

AMERICAN TOWER®

GROUNDING NOTES:

GROUNDING PLAN LEGEND:

 MECHANICAL CONNECTION EXOTHERMIC WELD -- GROUND WIRE

1. IF MORE THAN 20' FROM EXISTING GROUND RING, INSTALL GROUND ROD (5/8" x 10"), ROD SPACING: 8' MAX. TOP OF ROD AND GROUND WIRE TO BE BELOW FROST LINE.

2. ALL GROUND CONDUCTORS SHALL BE COPPER, 75 DEGREES C RATED, AND CONDUCTOR INSULATION BE THWN OR THEN.

3. GROUND FAULT PROTECTION REQUIRED FOR UTILITY RECEPTACLES.

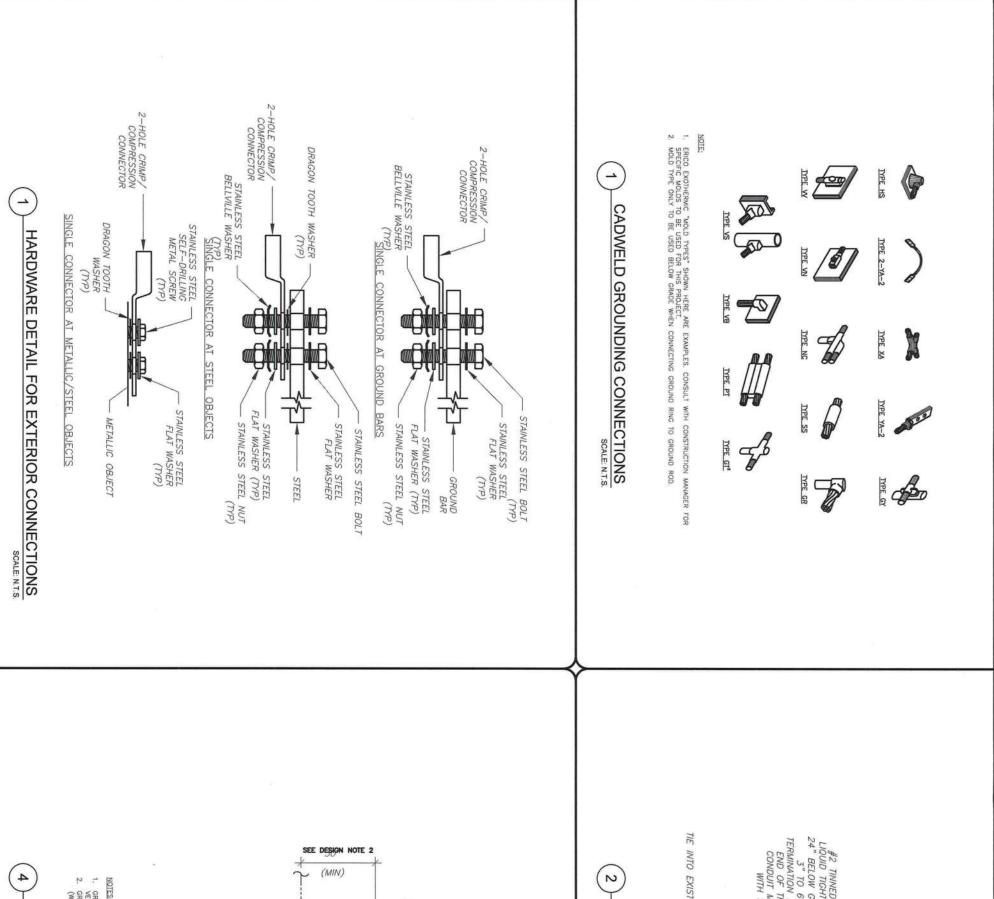
4. GENERATOR NEUTRAL STALL NOT BE GROUNDED AT THE GENERATOR, REFER TO SINGLE LINE DETAIL, SHEET E-1, 5. COUPMENT LOCATED OUTSIDE OR EXPOSED TO MOISTURE SHALL BE NEMA 3R RATED.

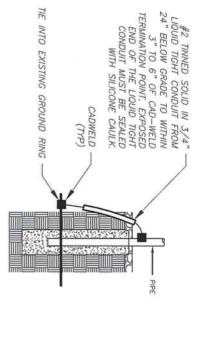
5. CONTRACTOR SHALL USE SCHEDULE BD PVC CONDUIT THROUGH CONCRETE AND ABOVE GROUND, UNLESS OTHERWISE NOTED.

7. ALL NEWLY INSTALLED EQUIPMENT SHALL BE RATED "AT 10K AC" MINIMUM. HIGHER RATINGS SHALL BE REQUIRED WHERE AVAILABLE FAULT CURRENT EXCEDS THE XYALUE. EXACT FAULT CURRENT MAILABLE SHALL BE COORDINATED WITH LOCAL UTILITY BASED ON EXACT CONDITIONS (XFAR SIZE, PERCENT IMPEDANCE, LENGTH OF CONDUCTORS, ETC). 1717 S. BOULDER SUITE 300 TULSA, OK 74119 PH: (918) 587-4630 www.btgrp.com B+T GRP

YMK 3/21/22 YMK 2/16/22 DATE

ВҮ





CONSTRUCTION

YMK 3/21/22

ATC SITE NUMBER:

2544

ATC SITE NAME: ELLISVILLE FL

T-MOBILE SITE NAME:

9JK2337S

DESCRIPTION

ВΥ

DATE

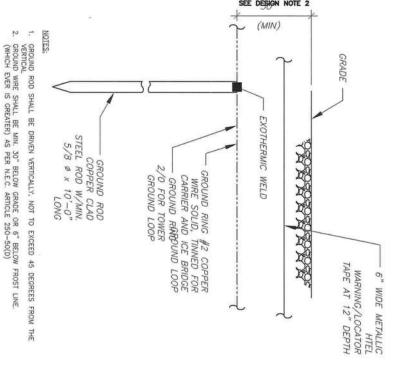
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PRELIM

TRANSITIONING GROUND DETAIL
SCALE N.T.S.

SEAL:

SITE ADDRESS: US HIGHWAY 41 LAKE CITY, FL 32025



B&T ENGINEERING, INC.

STATE OF THE STATE

DATE DRAWN: 2/15/22 ATC JOB NO: 2544-13765353_G4_02-CD CUSTOMER #: 9JK2337S CUSTOMER ID: T - Mobile 9JK2337S

GROUNDING DETAILS SHEET NUMBER:

REVISION: 0

GROUND ROD DETAIL

YMK 2/16/22

B+T GRP

AMERICAN TOWER®

Protector™ Series

Diesel Generator Set

Protector™

Series

INCLUDES:

- Two Line LCD Multilingual Digital Evolution Controller (English/Spanish/French/ Portuguese) with external viewing window breaker position. for easy indication of generator status and
- Isochronous Electronic Governor
- Sound Attenuated Aluminum Enclosure
- Smart Battery Charger
- UV/Ozone Resistant Hoses
- ±1% Voltage Regulation
- Integrated Base Tank Provides Up to 40 Hours of Run Time
- 5 Year Limited Warranty*
- UL 2200 / UL142 / ULC S601 Listed
- Meets code requirements for External Vent

Standby Power Rating

1 of 12

Model RD020 - 20 kW 60 Hz Model RD030 - 30 kW 60 Hz Model RD015 - 15 kW 60 Hz

Model RD048 - 48 kW 60 Hz (single phase only) Model RD050 - 50 kW 60 Hz (three phase only)



Meets EPA Emission Regulations CA/MA Emissions Compliant

* 5 year warranty applicable to U.S. and Territories/Canada. International warranty is 3 year limited

FEATURES

0 INNOVATIVE DESIGN & PROTOTYPE TESTING are key components of GENERAC'S success in "IMPROVING POWER BY DESIGN." But it teeting, environmental testing, destruction and life testing, plus testing to applicable CSA, NEMA, EGSA, and other standards, allows you to choose GENERAC POWER SYSTEMS with the confidence that these doesn't stop there. Total commitment to component testing, reliability

0

systems will provide superior performance.

0 SINGLE SOURCE SERVICE RESPONSE from Generac's extensive dealer

electronically torque-matching the surge loads to the engine. Digital

load conditions and MAXIMUM MOTOR STARTING CAPABILITY by

voltage regulation at ±1%.

This state-of-the-art power maximizing regulation system is standard on all Generac models. It provides optimized FAST RESPONSE to changing SOLID-STATE, FREQUENCY COMPENSATED VOLTAGE REGULATION.

GENERAC TRANSFER SWITCHES. Long life and reliability are network provides parts and service know-how for the entire unit, from the engine to the smallest electronic component.

0

TEST CRITERIA:

PROTOTYPE TESTED

SYSTEM TORSIONAL TESTED

MOTOR STARTING ABILITY

0

synonymous with GENERAC POWER SYSTEMS. systems and controls for total system compatibility. confidence is that the GENERAC product line includes its own transfer One reason for this

GENERAC

R-601 SHEET NUMBER SUPPLEMENTAL

REVISION:

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15 · 20 · 30 · 48 · 50 kW

application & engineering data

GENERAC

Type	
Rotor Insulation Class	
Stator Insulation Class	
Telephone Interference Factor (TIF)	
Alternator Output Leads 1-Phase	
Alternator Output Leads 3-Phase	

Direct	Excitation System
Direct, Flexible Disc	Coupling
Single Sealed Cartridge	Bearings
6 wire	Alternator Output Leads 3-Phase
3 wire	Alternator Output Leads 1-Phase
<50	Telephone Interference Factor (TIF)
н	Stator Insulation Class
H (15 & 20 kN) or F (30, 48 & 50 kN)	Rotor Insulation Class
synchronous	lype

± 0.25%	Steady State Regulation
Electronic Isochronous	Туре
	GOVERNOR SPECIFICATIONS
Adjustable Voltage & Gain	Features
# 1%	Regulation
Single Phase	Sensing
Electronic	Туре
	VULIAGE REGULATION

12 Volts	System Voltage
Group 27F, 700 CCA	Recommended Battery (battery not included)
2 Amp	Smart Battery Charger
50 Amp (15 & 20 kW) or 70 Amp (30, 48 & 50 kW)	Battery Charge Alternator
	ELECTRICAL SYSTEM
± 0.25%	Steady State Regulation
Figen of the face the findings	Jpe

GENERATOR FEATURES	
Revolving field heavy duty generator	
Directly connected to the engine	
Operating temperature rise 120°C above a 40°C ambient	
Class H insulation is NEWA rated	
Class F insulation is NEMA rated	
All models fully prototype rested	

ENGLOSURE FEATURES	
Aluminum weather protective enclosure	Ensures protection against mother nature. Electrostatically applied textured epoxy paint for added durability.
Enclosed critical grade muffler	Quiet, critical grade muffler is mounted inside the unit to prevent injuries and maximize sound dampening.
Small, compact, attractive	Makes for an easy, eye appealing installation.
SAE	Sound attenuated enclosure ensures quiet operation.

(All ratings in accordance with BS5514, ISO3046, ISO8528, SAE J1349 and DIN6271)

SUPPLEMENTAL

nevision:

R-602

GENERAC

application & engineering data

Protector™ Series

15 • 20 • 30 • 48 • 50 kW

ENGINE SPECIFICATIONS: 15 & 20 kW

ENGINE LUBRICATION SYSTEM

Full flow spin-on canister

Gear

6.87/6.5 - 15 & 20 kW 6.8/6.4 - 30 kW 7.4/7 - 48 & 50 kW

3 of 12

Pressurized radiator - 15 & 20 kW Closed recovery - 30, 48 & 50 kW

Pre-lubed, self-seating

1800 - 15 & 20 kW 2061 - 30 kW 2029 - 48 & 50 kW

Make	Generac	Oil Pump Type
Model	In-line	Oil Filter Type
Cylinders	4	
Displacement (Liters)	2.28	Crankcase Capacity (quarts/liters)
Bore (in./mm)	3.46/88	
Stroke (in./mm)	3.70/94	ENGINE GOOLING SYSTEM
Compression Ratio	21.3:1	1
Intake Air System	Naturally Aspirated	lype
Cylinder Head Type	Cast Iron OHV	Water Pump
Piston Type	Aluminum	
EPA Emissions Compliance	Emergency Stationary	Fan Speed (rpm)
ENGINE SPECIFICATIONS: 30 kW		
Make	Generac	ran Diameter (mymm)
Model	In-line	Fan Mode
Cylinders	4	FUEL SYSTEM
Displacement (Liters)	2.4	Fuel Type
Bore (in/mm)	3.54/90	and Sha
Stroke (in/mm)	3.70/94	Fuel Pump Type
Compression Ratio	21.3:1	Injector Type
Intake Air System	Turbocharged	Fuel Supply Line (mm/in)
Cylinder Head Type	Cast Iron OHV	Fuel Return Line (mm/in)
Piston Type	Aluminum	Fuel Specification
EPA Emissions Compliance	Emergency Stationary	Fuel Filtering (microns)
ENGINE SPECIFICATIONS: 48/50 kW	N	Take tribering filmstana)
Make	Generac	TANK SPECIFICATIONS
Model	In-Line	Total Size (gallons/liters)
Cylinders	4	
Displacement (Liters)	3.4	Usable Size (gallons/liters)
Bore in/mm	3.86/98	
Strake in/mm	4.45/113	0 10 10 10 10 10 10 10 10 10 10 10 10 10
Compression Ratio	18.5:1	Nun lime @ 1/2 Load (nrs)
Intake Air System	Turbocharged/Aftercooled	
Cylinder Head Type	Cast Iron OHV	Listings
Piston Type	Aluminum	

Ultra Low Sulfur Diesel Fuel

18.11/460 (15 & 20 kW) 22/559 (30, 48 & 50 kW)

Pusher

Mechanical Engine Driven

7.94/0.31 (ID) 7.94/0.31(ID)

Mechanical

Gear

5 - 15, 20 & 30 kW 10 - 48 & 50 kW

ASTM

UL142 ULC-S601	Listings
41 - 15 kW 31 - 20 kW 38 - 30 kW 25 - 48 & 50 kW	Run Time @ 1/2 Load (hrs)
32/121.1 - 15 & 20 kW 57/215.8 - 30, 48 & 50 kW	Usable Size (gallons/liters)
34/128.7 - 15 & 20 KW 62/234.7 - 30, 48 & 50 KW	Total Size (gallons/liters)
	the state of the s

30 kW 48 kW			Listings	Than inne @ 1/2 code (may	Run Time @ 1/2 cod /hre)		Ceaple Cize (Ballons/Highs)	Hookie Size (college/litere)	loan Size (ganoris/mers)	Total City (callege /litera)	TUTIN OF FOIL TOURISH
50 kW	50 kW		UL142 ULC-S601	38 - 30 KW 25 - 48 & 50 KW	31 - 20 kW	41 - 15 KW	57/215.8 - 30, 48 & 50 kW	32/121.1 - 15 & 20 KW	62/234.7 - 30, 48 & 50 kW	34/128.7 - 15 & 20 KW	

R-603	SHEET NUMBER:	SUPPLEMENTAL
0	REVISION:	TAL

Dimensions (LxWxH) (in/cm)

81 x 31 x 50/205 x 78 x 128

1380/626

Weight (lb/kg)

WEIGHTS AND DIMENSIONS

15 kW

20 KW

EPA Emissions Compliance

Emergency Stationary

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Protector™ Series

15 • 20 • 30 • 48 • 50 kW

operating data

ENGINE COOLING

	15 KW	20 kW	30 KW	48/50 KW
Air flow (inlet air including alternator and combustion air in cfm/cmm)	2824/80	2824/80	3038/86	2824/80
System coolant capacity (gal/liters)	2.8/10.6	2.8/10.6	2.8/10.6	28/10.6
Heat rejection to coolant (BTU per hr/MJ per hr)	63,535/67	63,535/67	111,000/117.1	135,900/143.4
Maximum operation air temperature on radiator (°C/°F)		50	50/122	
Maximum ambient temperature (°C/°F)		50	50/122	

COMBUSTION REQUIREMENTS

at rated power (cfm/cmm) 84.76/2.4	84.76/2.4	90/2.55	190/5.38
------------------------------------	-----------	---------	----------

SOUND EMISSIONS

70	Sound output in dB(A) at 23 ft (7 m) with generator operating at normal load*
65	Sound output in dB(A) at 23 ft (7 m) with generator in exercise mode.*

Sound levels are taken from the front of the generator. Sound levels taken from other sides of the generator may be higher depending on invaligation parameters.

EXHAUST

448/12.7	230/6.51	98.88/2.8	98.88/2.8	Exhaust flow at rated output (cfm/cmm)

ENGINE PARAMETERS

Rated Synchronous RPM		18	800	
HD of rated IAW	/ 3C	22 5	ò	20

POWER ADJUSTMENT FOR AMBIENT CONDITIONS Temperature Denation

6 Delation (10, 30, 40 & 30 kW)	1% for every 100 m above 305 m or 3% for every 1000 ft above 1000 ft	littude Deration (20 kW) 1% for every
n Derotion (45 30 48 9 50 MA)	1% for every 100 m above 915 m or 3% for every 1000 ft above 3000 ft	, 50 kW)

CONTROLLER FEATURES

DEFORT	
2	Common External Fault Capability
Standard	Internal Fault/Incorrect Wiring Protection
Standard	High Engine Temperature Shutdown
Standard	Overcrank/Overspeed (@ 72 Hz)/RPM Sense Loss Shutdown
Standard	Automatic Low Oil Pressure/High Oil Temperature Shutdown
Standard	Safety Fused/Fuse Problem Protection
Standard	Under-Frequency/Overload/Stepper Overcurrent Protection
on Standard	Automatic Voltage Regulation with Over and Under Voltage Protection
ation Standard	Low Battery/Battery Problem Protection and Battery Condition Indication
Standard	Charger Fault/Missing AC Warning
Standard	Smart Battery Charger
Starter cannot re-engage until 5 sec after engine has stopped.	Starter Lock-out
Cyclic cranking: 16 sec on, 7 rest (90 sec maximum duration).	Engine Start Sequence
50 Events Each	Run/Alarm/Maintenance Logs
Standard	Future Set Capable Exerciser/Exercise Set Error Warning
From 140-171 V/190-216 V	Utility Voltage Loss/Return to Utility Adjustable
Standard (programmable by dealer only)	Programmable start delay between 2-1500 seconds
Standard	Engine Run Hours Indication
Standard	Ready to Run/Maintenance Messages
Stops unit. Power is removed. Control and charger still operate.	0 f
Start with starter control, unit stays on. If utility fails, transfer to load takes place.	Manual
Automatic Start on Utility failure. Programmable 7 day exerciser.	Mode Buttons: Auto
Simple user interface for ease of operation.	2-Line Plain Text Multilingual LCD Display

SUPPLEMENTAL

REVISION:

R-604

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& 50 kW



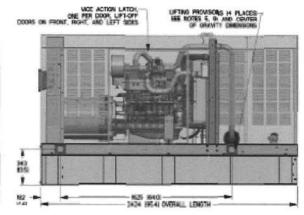


LEFT SOE REFERENCE CHARTS MARRIL FOR PERIODS

FWV DELT

STHER SEE

NOTIFIED AT LOAD LEAD C-WEDT COMMECTON BY CHANGER TO YOUT AC ISS AMP MAD COMMECTION. NEUROND TRANSPER SHYDE COMMECTION. NEUROLD DUE TO UNIT OFTION.



REAR VIEW

OVERALL MOTH

RIGHT SIDE VIEW

PUEL TANK VENITRATION DUCT

-- 40 D43 --

ENTERNAL DIVIDER PAREL
SEPARATES FAIL TANK VIDITLATION
DUCT FROM THE ENGRE.
BUTTERNATUR AND EXHAUST SYSTEM

LEFT SIDE VIEW

EXHAUST MUFFLER ENCLOSED WITHIN GENERATOR ENCLOSURE

TOP VIEW

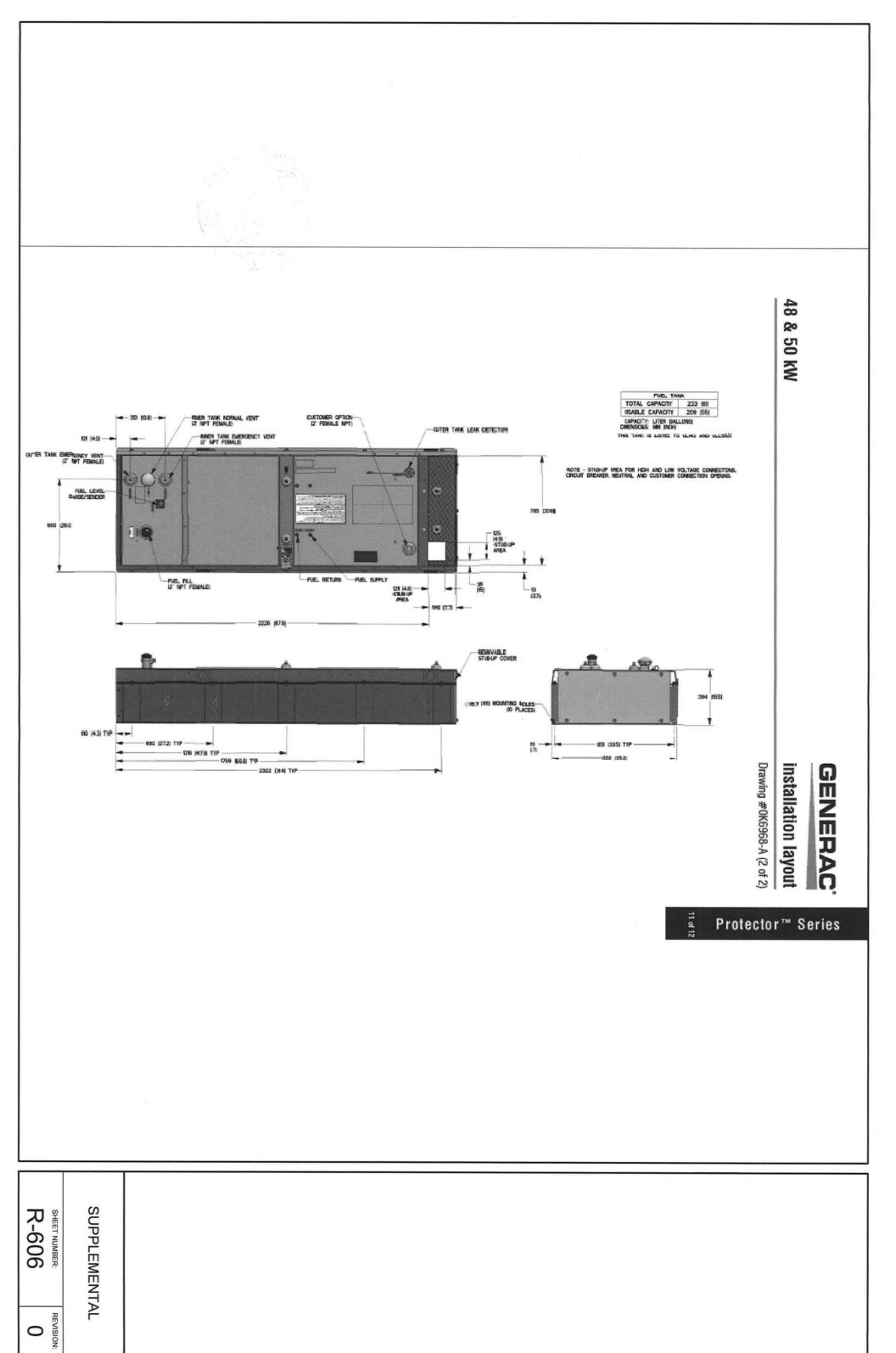
R-605

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SUPPLEMENTAL

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installation layout GENERAC



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