



**City of Gainesville
Department of Sustainable Development
Planning Division**

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CITY PLAN BOARD STAFF REPORT

PUBLIC HEARING DATE: March 25, 2021

PROJECT NAME AND NUMBER: PB-20-00166 WSUP – NCWPCS (cell tower)

APPLICATION TYPE: Wellfield Special Use Permit

RECOMMENDATION: Approve

CITY PROJECT CONTACT: Brittany McMullen, AICP

APPLICATION INFORMATION:

Agent/Applicant: WSD Engineering Inc. – o/b T-Mobile South LLC

Property Owner(s): NCWPCS MPL 25-Year Sites, Tower

Related Petition(s): None.

Legislative History: None.

Neighborhood Workshop: December 2, 2020

SITE INFORMATION:

Address: 2498 NW 73rd Pl.

Parcel Number(s): 06013-005-021

Acreage: 0.54

Existing Use(s): Cell Tower

Land Use Designation(s): IND (Industrial)

Zoning Designation(s): I-2 (General Industrial)

Transportation Mobility Program Area (TMPA): Area “B”

ADJACENT PROPERTY CHARACTERISTICS:

	EXISTING USE(S)	LAND USE DESIGNATION(S)	ZONING DESIGNATION(S)
North & East	Service Shop	IND (Industrial)	I-2
South	NW 73 rd Place R-O-W, Vacant Industrial	NW 73 rd Place R-O-W, IND (Industrial)	I-2
West	Warehouse	IND (Industrial)	I-2

PURPOSE AND DESCRIPTION:

The purpose of this request is to allow the installation of a 25KW diesel generator at an existing telecommunication facility.

Section 30-3.28 of the Land Development Code requires that all new and existing developments within the primary, secondary, and tertiary wellfield protection zones that will intensify, expand, or modify a use directly associated with the storage of hazardous material to obtain a Wellfield Protection Special Use Permit to ensure compliance with the Comprehensive Plan and Alachua County Murphree Wellfield Protection Code. The subject property is in the tertiary zone and proposes storage of diesel fuel, which is a hazardous material. The applicant is therefore requesting a Special Use Permit to allow the storage of hazardous materials. Figure 1 below shows the location of the property relative to the Wellfield Protection Zones.

Special Features:

Properties in the secondary and tertiary zones requesting a Wellfield Protection Special Use Permit are required to comply with the criteria for a general Special Use Permits as well as a special set of criteria designed to ensure protection of the Murphree Wellfield. This report addresses the subject property in terms of both sets of criteria.

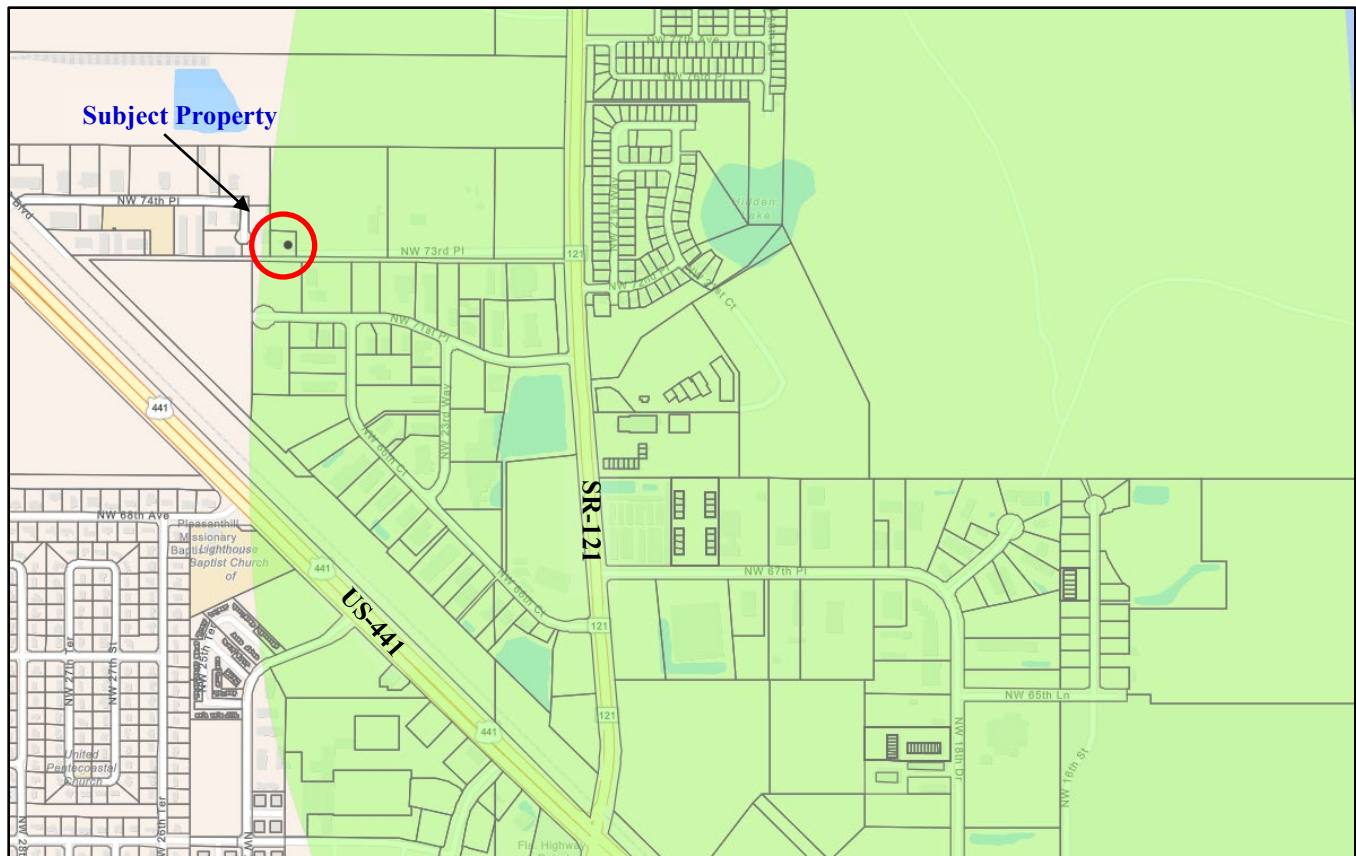


Figure 1. Subject Property Within the Tertiary Wellfield Protection Zone

STAFF ANALYSIS AND RECOMMENDATION:

Special Use Permit Review Criteria: Sections 30-3.24

No special use permit shall be approved by the city plan board unless the following findings are made concerning the proposed special use. The burden of proof on the issue of whether the development, if completed as proposed, will comply with the requirements of this chapter remains at all times on the applicant.

A. The proposed use or development is consistent with the Comprehensive Plan and the Land Development Code.

The proposed generator meets the requirements of the Alachua County Hazardous Materials Management Code by providing a secondary contained (double-walled) tank with 110 to 130% minimum capacity. The purpose of secondary containment is to prevent hazardous material from entering the environment by capturing the entire contents of the primary containment in the event of a leak or spill.

The application is consistent with the City Comprehensive Plan Policy 2.2.4 which states:

The City's land development regulations shall require the handling of hazardous materials in such a way as to prevent degradation of the natural environment. At a minimum, this shall be achieved by complying with the Alachua County Hazardous Materials Management Code and the Alachua County Murphree Wellfield Protection Code, which:

- a. Prohibit certain new hazardous materials facilities and underground storage tank systems from siting within the unconfined zone of the Floridan aquifer;
- b. Prohibit new hazardous materials facilities from siting within the primary and secondary wellfield protection zones of the Murphree wellfield, and establish requirements for siting of hazardous materials facilities within the tertiary protection zones of the Murphree wellfield. Within the secondary zone, vehicular fuel storage subject to Section 376.317, F.S., may be allowed;
- c. Require new Class C and D hazardous materials facilities, as identified in the Alachua County Hazardous Materials Management Code, to maintain large setbacks from surface waters, wells, and floodplains; and d. Require stringent hazardous materials storage and containment designs, periodic monitoring, inspections, a management plan, fees, and penalties for non-compliance.

B. The proposed use or development is compatible with the existing land use pattern and future uses designated by the Comprehensive Plan. Factors by which compatibility of the proposed use or development shall be reviewed include scale, height, mass and bulk, design, intensity, and character of activity.

The proposed addition of a diesel generator is compatible with the industrial land use pattern surrounding the property. All properties abutting the subject property have a future land use designation of Industrial and all properties are zoned I-2, General Industrial. The existing use at the property will not change and is considered compatible in character with surrounding development.

C. The proposed use will not adversely affect the health, safety, and welfare of the public.

The proposed generator improvements have been designed to meet requirements for preventing hazardous materials from entering the environment by capturing the entire contents of the primary containment in the event of a leak or spill.

D. Ingress and egress to the property, proposed structures, and parking/loading/service areas is provided and allows for safe and convenient automobile, bicycle, and pedestrian mobility at the site and surrounding properties.

There will be no ingress or egress provided to the property to the public.

E. Off-street parking, service, and loading areas, where required, will not adversely impact adjacent properties zoned for single-family residential use.

There are no adjacent properties zoned for single-family residential use.

F. Noise, glare, exterior lighting, or odor effects will not negatively impact surrounding properties.

The proposed generator will not impact exterior lighting or odor in relation to surrounding properties. The generator is considered “low-noise” and is covered with an acoustic panel housing having a rated capacity of 67 dB, which is below the recommended OSHA limit of 85 dB which is the threshold for recommending protective equipment of workers.

G. There is adequate provision for refuse and service/loading areas, and these areas shall be reviewed for access, screening, location on the site, and pedestrian/bicycle mobility and safety. Outdoor storage or display areas, if included, will not adversely impact surrounding properties and shall be reviewed for screening and location on the site.

There will be no provision of refuse or service/loading areas, or outdoor display for this use, as it is the location of a cell phone tower and will continue with this use.

H. Necessary public utilities are available to the proposed site and have adequate capacity to service the proposed use or development.

The proposed use will not require water and wastewater service. The location is currently has access to electric service which will continue.

I. Screening and buffers are proposed of such type, dimension, and character to improve compatibility and harmony of the proposed use and structure with the uses and structures of adjacent and nearby properties.

The proposed installation of a diesel generator will support the existing use at the property which is found to be compatible with the uses of nearby industrial properties.

J. The hours of operation will not adversely impact adjacent properties zoned for single-family residential use.

There are no adjacent properties zoned for single-family residential use.

K. Any special requirements set forth in the Land Development Code for the particular use involved are met.

Particular use requirements are outlined below in response to review criteria in Section 30-3.30.

Wellfield Protection Special Use Permit Review Criteria: Sections 30-3.30

1. The criteria for Special Use Permits provided in Section 30-3.24

The Special Use Permit criteria of Section 30-3.24 are addressed above.

2. The proposed use or development will not endanger the city's potable water supply.

The proposed generator meets the requirements of the Alachua County Hazardous Materials Management Code by providing a secondary contained (double-walled) tank with 110 to 130% minimum capacity. The purpose of secondary containment is to prevent hazardous material from entering the environment by capturing the entire contents of the primary containment in the event of a leak or spill.

3. The necessary public utilities are available to the proposed site and have adequate capacity to service the proposed use and development. The development must be connected to the potable water and wastewater system.

This location is not serviced by water and wastewater, only electric. However, this is a cell tower site that does not need water and wastewater service.

4. There has been proper abandonment, as regulated by the applicable water management district or state agency, of any unused wells or existing septic tanks at the site. An existing septic tank may remain if it is used solely for domestic waste and if it meets all applicable state and local regulations.

The applicant indicates that there are no unused wells or existing septic tanks on the site. GRU has reviewed the request and recommends approval. During the permitting process a field investigation shall be conducted to determine the status of existing wells or septic tanks.

5. There is no current or proposed underground storage of petroleum products or hazardous materials at the development site.

This parcel falls within the tertiary wellfield protection zone. Diesel storage will be aboveground. The applicant indicates that there are no current or proposed underground storage of petroleum products on the site. The use of other hazardous materials is currently managed by Alachua County Environmental Protection Department. They have reviewed the request and find the proposal to be approvable.

6. The applicant is in compliance with the requirements of the Alachua County Hazardous Materials Management Code, and all applicable state and federal regulations.

The Alachua County Environmental Protection Department has reviewed the request and recommends approval.

7. The development property addresses environmental features such as wetlands, creeks, lakes, sinkholes, and soils to ensure that hazardous materials will not endanger the potable water supply and the environmental features.

There are no environmental features on the property.

LIST OF ATTACHMENTS:

Appendix A: Application Documents

Appendix A

PROPOSED GENERATOR INSTALLATION TO AN EXISTING T-MOBILE LEASE AREA – SITE #: 9JK1268A

**2498 NW 73RD PLACE
GAINESVILLE, FLORIDA**

**Wellfield Protection
Special Use Permit**

**Justification Report
March 18, 2021**

Prepared for:
City of Gainesville
Department of Sustainable Development

Table of Contents

Section	Page
1. Executive Summary	1
2. Statement of Proposed Change	2
3. Consistency with City of Gainesville Comprehensive Plan	5
4. Consistency with City of Gainesville Land Development Code	7

List of Figures

Figure 1: Aerial Map	2
Figure 2: Future Land Use Map	3
Figure 3: Zoning Map	3
Figure 4: Wellfield Protection Zones Map	4

1. Executive Summary

To: Brittnany McMulle, AICP, City of Gainesville, Department of Sustainable development,
From: Jennifer Navarro-Yhap, Principal/National Site Acquisition Lic #: 01838264
Date: March 17, 2021
Re: Proposed Generator Installation to an existing T-Mobile Lease Area at 2498 NW 73rd Place,
Gainesville, FL 32653 – Wellfield Protection Special Use Permit (WPSUP) Application

<u>Jurisdiction:</u> City of Gainesville	<u>Intent of Development:</u> Installation of an above-ground electrical stand-by electrical generator within the existing designated 14' x 16' T-Mobile lease area.
<u>Description of Location:</u> 2498 NW 73 rd Place, Gainesville, FL 32653	
<u>Parcel Numbers:</u> 06013-055-021	<u>Acres:</u> 0.472 ±
<u>Existing Future Land Use Classification:</u> <i>Industrial (IND)</i> The industrial land use of the property has not changed from its original intended use as a telecommunication facility.	
<u>Existing Zoning District:</u> <i>I-2: General Industrial (I-2)</i> The purpose of this district is to allow a mixture of general industrial development, including a telecommunication facility. The installation of a stand-by generator on the existing facility does not change this purpose and use.	
<u>Proposed Wellfield Protection Special Use Permit</u> Allow the operation within the Wellfield Protection Zone per the Land Development Code (LDC), Division 6. Wellfield Protection Special Use Permit, Section 30-3.28. Approval will allow for the stand-by generator to operate within the zone, on an emergency basis, whenever there is loss of commercial power to the facility. This application is submitted to secure a Special Use Permit for the stand-by electrical generator.	

2. STATEMENT OF PROPOSED CHANGE

This Wellfield Protection Special Use Permit (WPSUP) application requests the installation of an above-ground electrical generator within the Wellfield Protection Zone. The proposed 15 KW stand-by generator will be installed to support the existing T-Mobile commercial telecommunication operations, at present, at 2498 NW 73rd Place, Gainesville, FL 32653. The ± 0.472 -acre site is within the City of Gainesville municipal limits (Alachua County Tax Parcel 06013-055-021). An aerial photo is provided as Figure 1 to show the site's location and existing conditions.



Figure 1: Aerial Map

The site has Commercial (C) Future Land Use (FLU) and General Business (B) Zoning District designations, as shown on Figures 2 and 3. A stand-by generator on the existing commercial business property is in compliance with the existing business use.

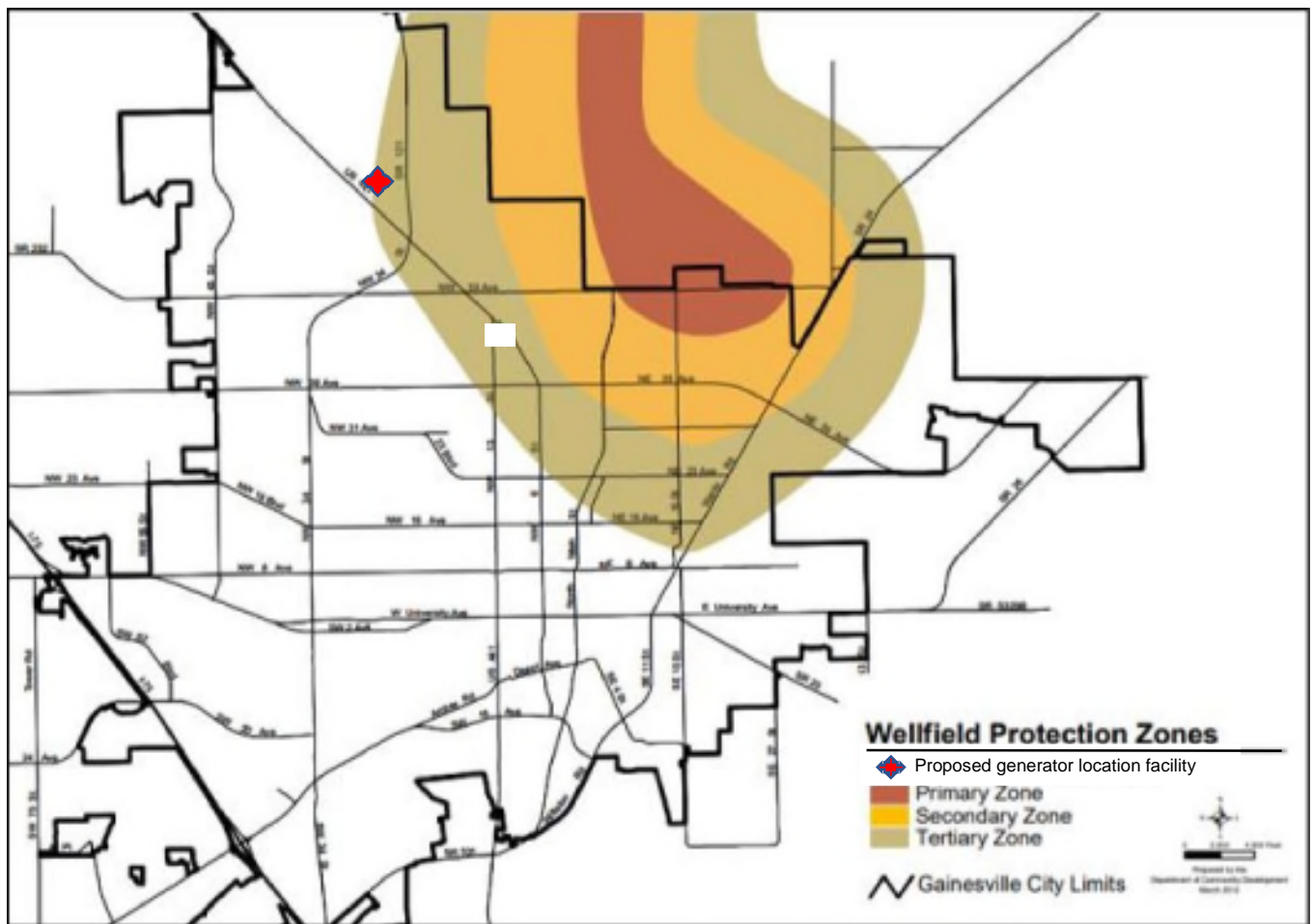
This WPSUP application is consistent with the City Comprehensive Plan and LDC, as identified and demonstrated throughout the following sections.



Figure 2: Future Land Use Map



Figure 3: Zoning Map



3. CONSISTENCY WITH CITY OF GAINESVILLE COMPREHENSIVE PLAN

This section identifies specific City of Gainesville Comprehensive Plan Goals, Objectives, and Policies and explains how this application is consistent with each. The Goals, Objectives, and Policies are provided in normal font, and the consistency statements are provided in **bold** font.

Future Land Use Element

GOAL 1 Improve the quality of life and achieve a superior, sustainable development pattern in the city by creating and maintaining choices in housing, offices, retail, and workplaces, and ensuring that a percentage of land uses are mixed, and within walking distance of important destinations.

The site is within walking distance of several commercial businesses and residences. These workers and residents currently have easy access around these businesses. The proposed T-Mobile generator will in no way impact these workers and residents, access.

Policy 4.1.1 Land Use Categories on the Future Land Use Map shall be defined as follows:

Industrial (IND)

The Industrial land use category identifies those areas appropriate for manufacturing, fabricating, distribution, extraction, wholesaling, warehousing, recycling, and other ancillary uses. Other uses may be allowed in this land use category as specified in an adopted ordinance rezoning property to Planned Development District (PD). Land development regulations shall determine the appropriate scale of uses and consider the externalities of such uses. Intensity will be controlled by adopting land development regulations that establish height limits of 5 stories or less.

Conservation, Open Space & Groundwater Recharge Element

Policy 2.2.4

The City's land development regulations shall require the handling of hazardous materials in such a way as to prevent degradation of the natural environment. At a minimum, this shall be achieved by complying with the Alachua County Hazardous Materials Management Code and the Alachua County Murphree Wellfield Protection Code, which:

- a. Prohibit certain new hazardous materials facilities and underground storage tank systems from siting within the unconfined zone of the Floridan aquifer;
- b. Prohibit new hazardous materials facilities from siting within the primary and secondary wellfield protection zones of the Murphree wellfield, and establish requirements for siting of hazardous materials facilities within the tertiary protection zones of the Murphree wellfield. Within the secondary zone, vehicular fuel storage subject to Section 376.317, F.S., may be allowed;
- c. Require new Class C and D hazardous materials facilities, as identified in the Alachua County Hazardous Materials Management Code, to maintain large setbacks from surface waters, wells, and floodplains; and
- d. Require stringent hazardous materials storage and containment designs, periodic monitoring, inspections, a management plan, fees, and penalties for non-compliance.

The proposed electrical generator on the existing facility shall comply with the Alachua County Hazardous Materials Management Code and the Alachua County Murphree Wellfield Protection Code.

Policy 2.3.2

The City shall allow land uses and facility design within wellfield protection zones (and other "community water system" cones of influence as defined by Rule 62-550.200, F.A.C.) as identified in the Environmentally Significant Land and Resources Map Series within the Future Land Use Map Series, and that are in compliance with the Murphree Wellfield Protection Code.

As illustrated on Figure 4, the site is located within the tertiary wellfield protection zone. The proposed facility shall comply with the Alachua County Hazardous Materials Management Code and the Alachua County Murphree Wellfield Protection Code.

4. CONSISTENCY WITH CITY OF GAINESVILLE LAND DEVELOPMENT CODE

The following identifies how this application is consistent with the City of Gainesville's Land Development Code (LDC). LDC language is provided in normal font, and consistency statements are provided in **bold** font.

Section 30-3.24. [SUP] Review Criteria

No Special Use Permit shall be approved by the City Plan Board unless the following findings are made concerning the proposed special use. The burden of proof on the issue of whether the development, if completed as proposed, will comply with the requirements of this chapter remains at all times on the applicant.

- A. The proposed use or development is consistent with the Comprehensive Plan and the Land Development Code.

Sections 3 and 4 of this justification report demonstrate how the proposed project is consistent with the City of Gainesville Comprehensive Plan and LDC, respectively.

- B. The proposed use or development is compatible with the existing land use pattern and future uses designated by the Comprehensive Plan. Factors by which compatibility of the proposed use or development shall be reviewed include scale, height, mass and bulk, design, intensity, and character of activity.

The proposed generator will be consistent with the City of Gainesville Comprehensive Plan and LDC.

The site is located within the confines of the existing telecommunication facility, at 2498 NW 73rd Place, Gainesville, FL 32653

- C. The proposed use will not adversely affect the health, safety, and welfare of the public.

The project site is located at 2498 NW 73rd Place, Gainesville, FL 32653. The existing wireless communications facility is not intended for human occupancy; it does not require potable water and will not produce any sewage. The proposed generator at the site will enhance the reliability of the communication services that are being offered the general community round-about.

- D. Ingress and egress to the property, proposed structures, and parking/loading/service areas is provided and allows for safe and convenient automobile, bicycle, and pedestrian mobility at the site and surrounding properties.

Ingress and egress from the proposed generator site, at the telecommunication facility, at 2498 NW 73rd Place, Gainesville, FL 32653, will not be impeded in any way.

F. Noise, glare, exterior lighting, or odor effects will not negatively impact surrounding properties.

The proposed generator is a low noise generator, shrouded by design with a acoustic panel housing having a rated capacity of \pm 67 dB, which is well below the recommended OSHA limit of 85 dB, before personal protective equipment is recommended for workers.

No light or abnormal odors will be emitted from the generator.

G. There is adequate provision for refuse and service/loading areas, and these areas shall be reviewed for access, screening, location on the site, and pedestrian/bicycle mobility and safety. Outdoor storage or display areas, if included, will not adversely impact surrounding properties, and shall be reviewed for screening and location on the site.

The generator will produce no refuse that would negatively impact the surrounding community.

H. Necessary public utilities are available to the proposed site and have adequate capacity to service the proposed use or development.

This is an unmanned telecommunication facility and does not require potable water or disposal of sewage. The proposed generator will not change this current arrangement in any way.

I. Screening and buffers are proposed of such type, dimension, and character to improve compatibility and harmony of the proposed use and structure with the uses and structures of adjacent and nearby properties.

No special screen or buffer is required for the installation of the generator at the site. The acoustic paneling, that is part of the design feature of the generator, is deemed sufficient to reduce the noise produced during operation, to manageable levels.

J. The hours of operation will not adversely impact adjacent properties zoned for single-family residential use.

There are no adjacent or abutting single-family residential uses.

Section 30-3.30. [WPSUP] Review Criteria

B. Secondary and tertiary zone. The development or use shall be reviewed using the following criteria:

1. The criteria for Special Use Permits provided in Section 30-3.24 have been met.

Section 4 of this justification report demonstrates consistency with LDC §30-3.24 and other applicable LDC sections.

2. The proposed use or development will not endanger the city's potable water supply.

Potable water supply is not required for the operation of the proposed generator.

3. The necessary public utilities are available to the proposed site and have adequate capacity to service the proposed use and development. The development must be connected to the potable water and wastewater system.

This project site has all necessary public utilities to adequately serve the proposed use. No potable water supply is required to service the proposed generator.

At present, electricity to the telecommunication facility is provided by the Gainesville Regional Utilities (GRU. Should this commercial electrical power supply fail, then the proposed generator will be utilized for stand-by power supply services to the facility for T-Mobile.

4. There has been proper abandonment, as regulated by the applicable water management district or state agency, of any unused wells or existing septic tanks at the site. An existing septic tank may remain if it is used solely for domestic waste and if it meets all applicable state and local regulations.

There is no existing well or septic tank on-site.

5. There is no current or proposed underground storage of petroleum products or hazardous materials at the development site in the secondary zone. There is no current or proposed underground storage of hazardous materials at the development site in the tertiary zone. There is no current or proposed underground storage of petroleum products at the development site in the tertiary zone unless approved by GRU General Manager or his/her designee.

The site is within the tertiary wellfield protection zone, as shown in Figure 4. However, no underground storage of petroleum products is proposed.

6. The applicant is in compliance with the requirements of the Alachua County Hazardous Materials Management Code, and all applicable state and federal regulations.

The proposed Development Plan application complies with the Alachua County Hazardous Materials Management Code, and all applicable state and federal regulations.

7. The development property addresses environmental features such as wetlands, creeks, lakes, sinkholes, and soils to ensure that hazardous materials will not endanger the potable water supply and the environmental features.

The no development activity associated with the generator installation that would endanger the potable water supply and the environmental features.

THIS DOCUMENT HAS BEEN ELECTRONICALLY
SIGNED AND SEALED BY JEREMY D. SHARIT, PE
(#75137) USING A DIGITAL SIGNATURE IN
ACCORDANCE WITH F.A.C. 61G15-23.004, WITH A
DIGITAL CERTIFICATE ISSUED BY ENTRUST, INC.
PLEASE REFERENCE SHEET T1 TO VIEW THE
SIGNATURE AND VERIFY ITS PROPERTIES. PRINTED
COPIES OF THIS DOCUMENT ARE NOT CONSIDERED
SIGNED AND SEALED AND THE SIGNATURE MUST
BE VERIFIED ON ANY ELECTRONIC COPIES.

<div>1. FOR THE PURPOSES OF THESE CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:</div> <div><div>OWNER</div><div>ENGINEER</div><div>CONTRACTOR</div></div> <div><div>–</div><div>–</div><div>–</div></div> <div><div>T–MOBILE SOUTH LLC</div><div>SMW ENGINEERING GROUP, INC.</div><div>GENERAL CONTRACTOR (CONSTRUCTION)</div></div>		<div>2. PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR SHALL VISIT THE JOB SITE IN ORDER TO (1) VERIFY ALL EXISTING CONDITIONS, (2) CONFIRM WHETHER ALL DIMENSIONS ARE AS SHOWN ON THE PLANS AND (3) CONFIRM WHETHER THE WORK MAY BE ACCOMPLISHED AS SHOWN. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER.</div> <div>3. A 20–FOOT HORIZONTAL CLEARANCE DISTANCE SHALL BE MAINTAINED FROM ALL EXISTING POWER LINES.</div> <div>4. THE CONTRACTOR’S USE OF A CONSTRUCTION STAGING AREA SHALL BE COORDINATED WITH THE OWNER WELL IN ADVANCE OF THE CONSTRUCTION START DATE.</div> <div>5. LABOR, MATERIAL, TOOLS, EQUIPMENT, TRANSPORTATION AND TEMPORARY POWER SERVICES NECESSARY FOR AND INCIDENTAL TO COMPLETION OF ALL WORK SHALL BE PROVIDED AS INDICATED ON THE DRAWINGS AND/OR AS SPECIFIED HEREIN. LABOR AND MATERIALS SHALL BE FURNISHED AS REQUIRED FOR COMPLETE SYSTEMS, INCLUDING ALL ELEMENTS OBVIOUSLY OR REASONABLY INCIDENTAL TO A COMPLETE INSTALLATION, WHETHER OR NOT SPECIFICALLY INDICATED ON THE PLANS.</div> <div>6. FOR TASKS REQUIRED TO BE PERFORMED BUT NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOT START WORK ON SUCH TASKS WITHOUT HAVING RECEIVED WRITTEN AUTHORIZATION FROM THE CONSTRUCTION MANAGER TO PROCEED.</div> <div>7. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND EQUIPMENT UNLESS OTHERWISE INDICATED BY DIMENSIONS OR DETAILS. EXACT EQUIPMENT LOCATIONS MAY BE MODIFIED AS REQUIRED BY ACTUAL FIELD CONDITIONS. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE ENGINEER AND THE CONSTRUCTION MANAGER.</div> <div>8. THE CONTRACTOR SHALL OBTAIN, PAY FOR AND DELIVER ALL REQUIRED PERMITS, CERTIFICATES OF INSPECTION, INCLUDING UTILITY CONNECTION FEES, ETC., REQUIRED BY THE AUTHORITIES HAVING JURISDICTION AND SHALL DELIVER SUCH DOCUMENTS TO THE OWNER PRIOR TO FINAL ACCEPTANCE OF THE WORK.</div> <div>9. THE CONTRACTOR’S OPERATIONS SHALL BE CONFINED TO AREAS OF NEW CONSTRUCTION.</div> <div>10. ALL NECESSARY PROVISIONS SHALL BE MADE TO PROTECT EXISTING IMPROVEMENTS, LANDSCAPING, PAVING, CURBS, GALVANIZED SURFACES, ETC, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO SAME RESULTING FROM THE CONSTRUCTION WORK. ALL DISTURBED AND DAMAGED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR BETTER UPON COMPLETION OF ALL WORK TO THE SATISFACTION OF THE CONSTRUCTION MANAGER.</div> <div>11. THE FOLLOWING CLEANUP TASKS SHALL BE PERFORMED AS FOLLOWS: (1) ON A DAILY BASIS, KEEP THE GENERAL AREA CLEAN AND HAZARD FREE, REMOVING ALL WASTE, DEBRIS AND TRASH FROM THE SITE AND DISPOSING OF SAME IN A LEGAL MANNER. (2) UPON COMPLETION, LEAVE THE PREMISES IN A CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.</div> <div>12. ALL EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER’S RECOMMENDATIONS EXCEPT WHERE IT IS SPECIFICALLY INDICATED OTHERWISE IN THE CONTRACT DOCUMENTS OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.</div> <div>13. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY HAVING JURISDICTION OVER THE PERFORMANCE OF THE WORK. MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AS WELL AS LOCAL AND STATE CODES, ORDINANCES AND APPLICABLE REGULATIONS.</div> <div>14. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AT ALL TIMES, USING THE BEST SKILLS AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL OF THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK, INCLUDING CONTACT AND COORDINATION WITH THE CONSTRUCTION MANAGER AND WITH THE OWNER’S AUTHORIZED REPRESENTATIVE.</div> <div>15. WITHIN TEN (10) WORKING DAYS AFTER PROJECT COMPLETION, THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF AS–BUILT DRAWINGS, SWEEP TEST, CYLINDER TESTS, LIEN RELEASES, AND OTHER CLOSEOUT DOCUMENTATION AS REQUIRED BY THE OWNER. ALL SYSTEMS SHALL BE COMPLETELY ASSEMBLED, TESTED, ADJUSTED AND DEMONSTRATED TO BE READY FOR OPERATION PRIOR TO THE OWNER’S ACCEPTANCE.</div>		<div>1. THE APPROPRIATE UTILITY LOCATING SERVICES SHALL BE CONTACTED PRIOR TO THE START OF CONSTRUCTION IN ORDER TO VERIFY THE EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITIES.</div> <div>2. THE INSTALLATION OF NEW UTILITIES SHALL BE COORDINATED WITH LOCAL AUTHORITIES.</div> <div>3. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES. WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SUCH UTILITIES SHALL BE RELOCATED AS DIRECTED BY THE CONSTRUCTION MANAGER. EXTREME CAUTION SHALL BE USED WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES.</div> <div>4. RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.</div> <div>5. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES THAT INTERFERE WITH THE EXECUTION OF THE WORK SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS THAT WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF THE LANDLORD AND/OR LOCAL UTILITIES.</div> <div>6. DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION SHALL BE MINIMIZED.</div> <div>7. ANY AREAS OF THE CONSTRUCTION SITE DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE. SUCH GRADING SHALL CAUSE SURFACE WATER TO FLOW AWAY FROM ANY EQUIPMENT SHELTER AND TOWER AREAS AND THE SOIL SHALL BE STABILIZED TO PREVENT EROSION. EROSION CONTROL MEASURES,IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.</div> <div>8. THE SUB–GRADE SHALL BE COMPACTED AND BROUGHT TO A UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.</div> <div>9. BACKFILL SHALL CONSIST OF CLEAN SAND FILL APPROVED FOR USE BY THE ENGINEER. NO UNAPPROVED MATERIAL WILL BE ALLOWED. CLEAN SAND FILL SHALL BE FREE OF ALL ROOTS, BOULDERS, OR OTHER DELETERIOUS MATERIAL.</div> <div>10. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO EQUAL TO OR BETTER CONDITION THAN ORIGINAL.</div> <div>11. SITE SIGNAGE SHALL BE PROVIDED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS FOR SUCH SIGNAGE AS MAY BE CONTAINED IN THESE DRAWINGS.</div>	
GENERAL NOTES		1	STRUCTURAL STEEL NOTES	3	

REV	DATE	DESCRIPTION
A	05/25/18	PRELIM PLANS
0	06/04/18	PERMIT PLANS
1	10/20/20	PLANS RE–ISSUED
2	02/05/21	REVISED PER COMMENTS
PROJECT NO.:		18–5793
DRAWN BY:		B. BERGERON
PROJECT MANAGER:		D. REVELS
CHECKED BY:		M. MURPHY

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(813) 615–1422

CERTIFICATE OF AUTHORIZATION 33693



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JEREMY D. SHARIT PE FL LIC 75137

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(GAN015)

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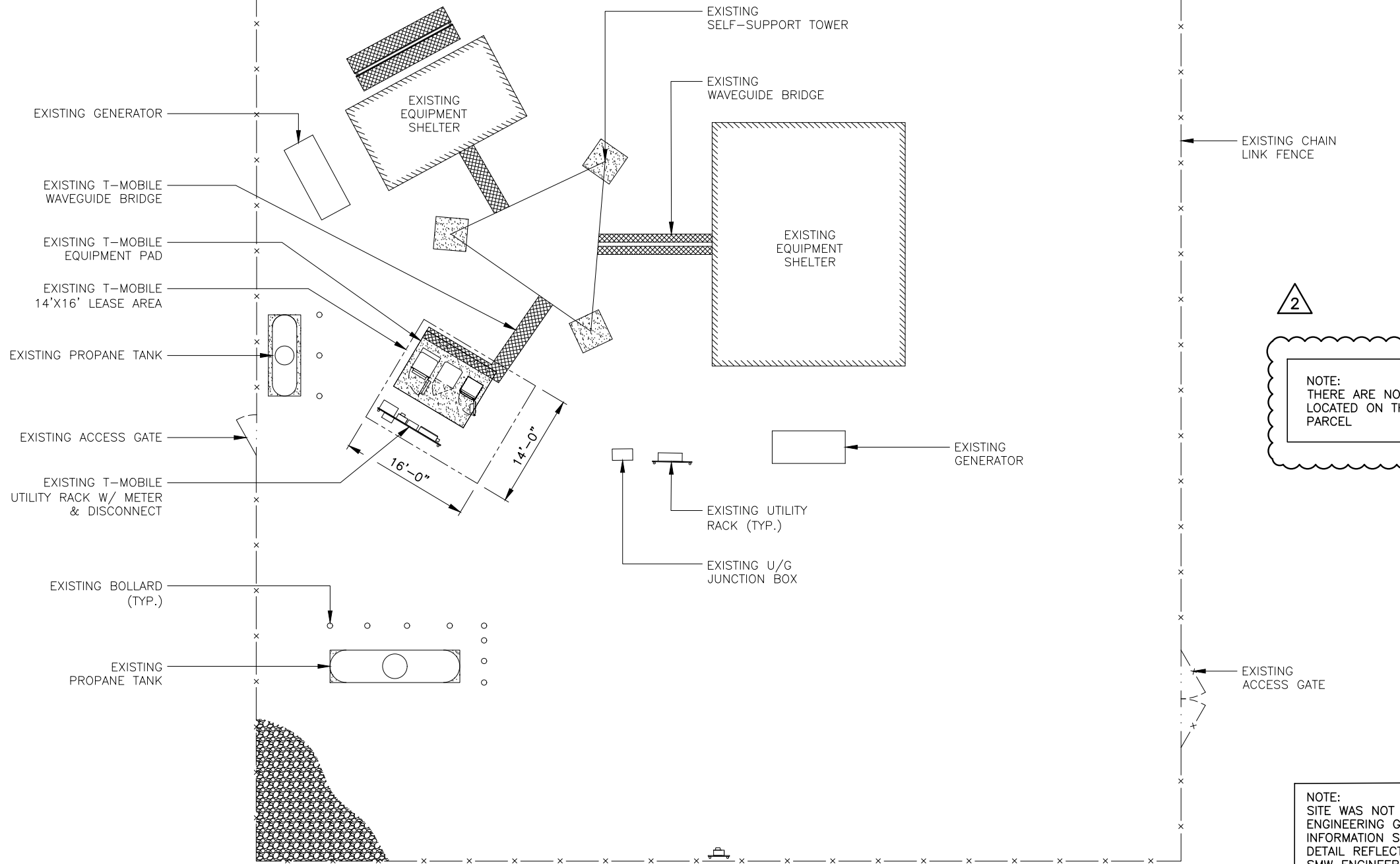
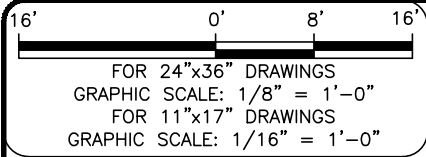
2498 NW 73RD PLACE
GAINESVILLE, FLORIDA 32653
(ALACHUA COUNTY)

SHEET NAME

NOTES

SHEET NUMBER

T2



REV	DATE	DESCRIPTION
A	05/25/18	PRELIM PLANS
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PROJECT NO.:	18-5793
DRAWN BY:	B. BERGERON
PROJECT MANAGER:	D. REVELS
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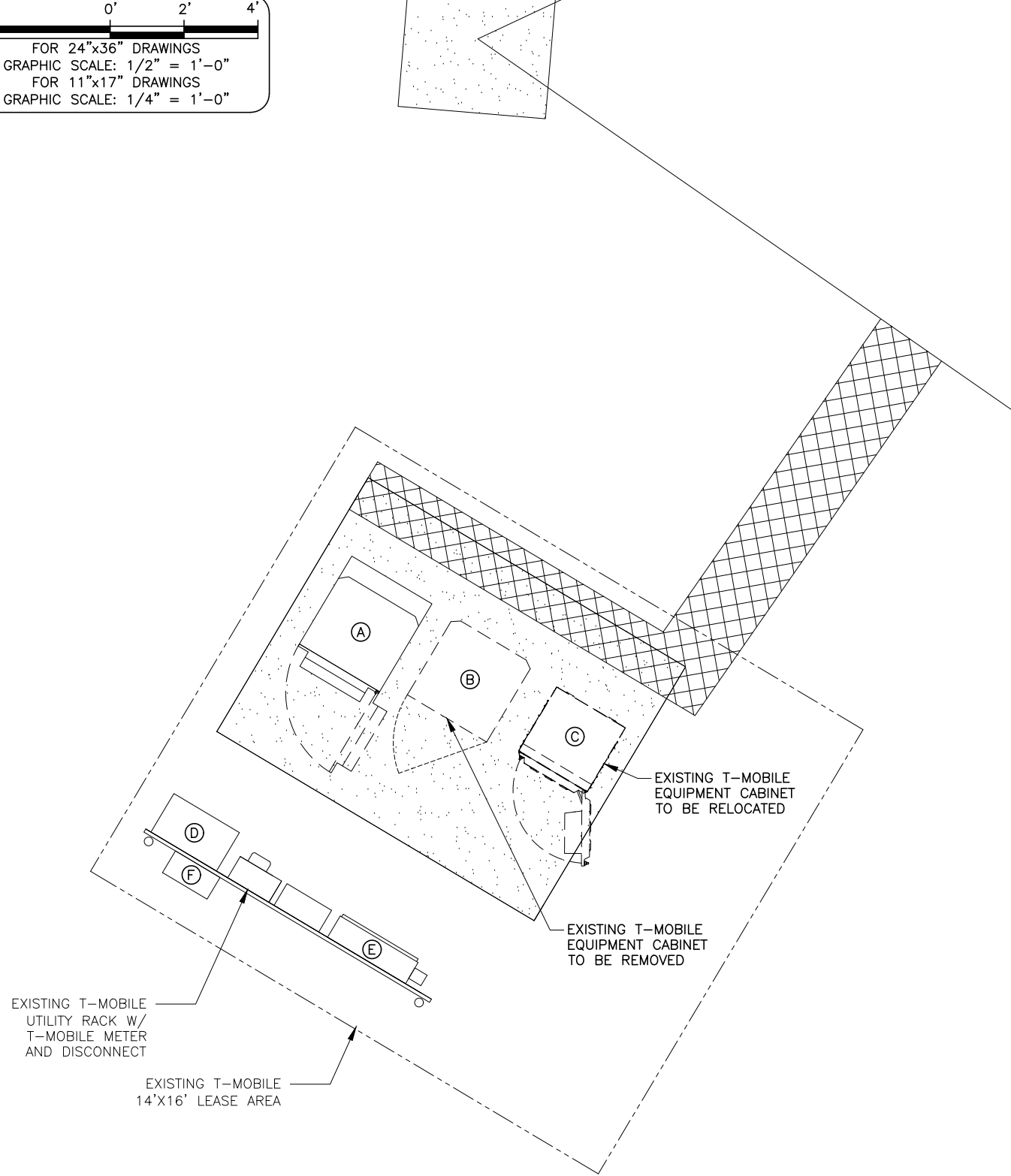
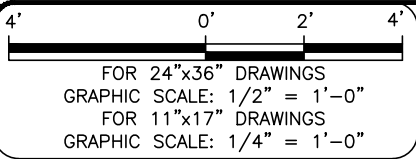
SHEET NAME

COMPOUND PLAN

SHEET NUMBER

C1



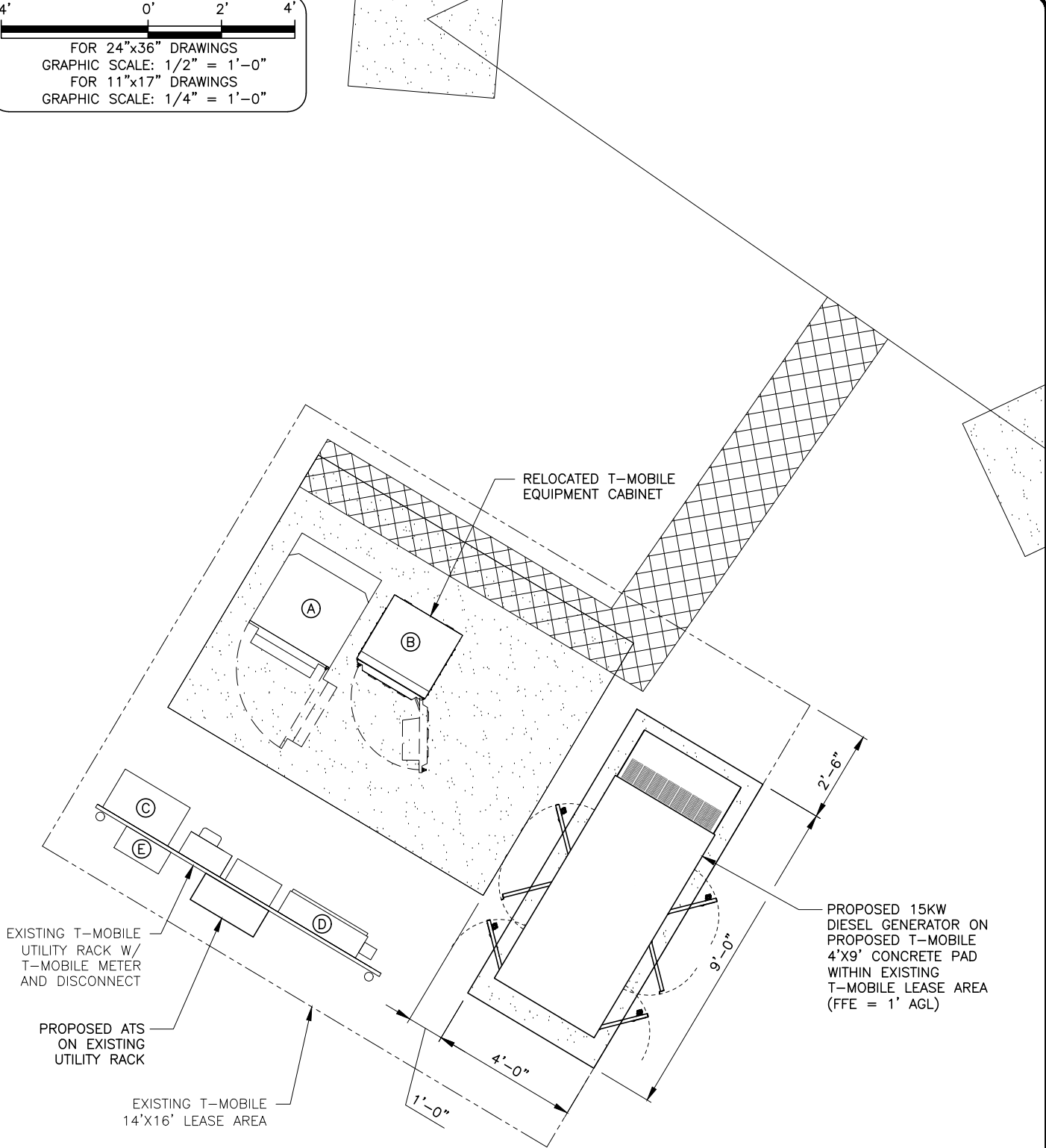
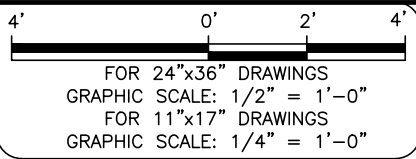


T-MOBILE EQUIPMENT INVENTORY	
A	FCOA CABINET
B	MPCS CABINET
C	SSC
D	TELCO
E	PPC
F	OPTIMAN



EXISTING EQUIPMENT LAYOUT

SCALED AS NOTED 1



T-MOBILE EQUIPMENT INVENTORY	
A	FCOA CABINET
B	SSC
C	TELCO
D	PPC
E	OPTIMAN



PROPOSED EQUIPMENT LAYOUT

SCALED AS NOTED 2

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A	05/25/18	PRELIM PLANS
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PROJECT NO.: 18-5793	
DRAWN BY:	B. BERGERON
PROJECT MANAGER:	D. REVELS
CHECKED BY:	M. MURPHY

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(ALACHUA COUNTY)

SHEET NAME

EQUIPMENT
LAYOUT

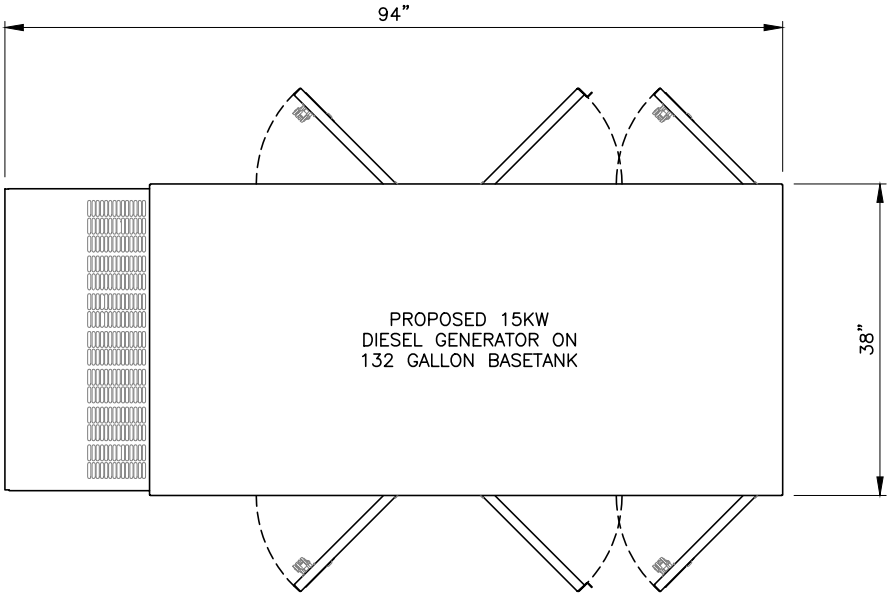
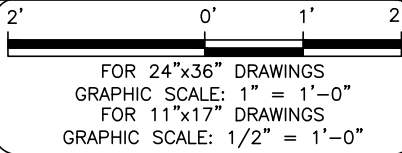
SHEET NUMBER

C2

NOTES:

1. CONTROL PANEL INCLUDES BATTERY CHARGER WITH THREE PRONG CORD.
2. 1500W 120VAC ENGINE BLOCK HEATER WITH THREE PRONG CORD.
3. 12 VOLT NEGATIVE GROUND SYSTEM.
4. GENERATOR MUST BE GROUNDED.
5. CENTER OF GRAVITY & WEIGHT MAY SHIFT SLIGHTLY DUE TO UNIT OPTIONS.
6. STUB-UPS: BASE TANK REQUIRES ALL STUB-UPS TO BE IN THE REAR TANK STUB-UP AREA.
7. HIGH VOLTAGE STUB-UP AREA INCLUDES THE AC LOAD LEAD CONNECTION TO THE MAIN LINE CIRCUIT BREAKER, THE NEUTRAL CONNECTION, AND AUXILIARY 120/240V CONNECTION.
8. CONNECTION POINTS FOR CONTROL WIRES. BOTTOM OF LOW VOLTAGE CUSTOMER CONNECTION BOX HAS KNOCKOUTS FOR ½" AND ¾" FITTINGS.
9. MUST ALLOW FREE FLOW OF DISCHARGE AIR AND EXHAUST. SEE SPEC SHEET FOR MINIMUM AIR FLOW AND MAXIMUM RESTRICTION REQUIREMENTS.
10. MUST ALLOW FREE FLOW OF INTAKE AIR. SEE SPEC SHEET FOR MINIMUM AIR FLOW AND MAXIMUM RESTRICTION REQUIREMENTS.
11. GENERATOR MUST BE INSTALLED SUCH THAT FRESH COOLING AIR IS AVAILABLE AND THAT DISCHARGE AIR FROM THE RADIATOR IS NOT RECIRCULATED.
12. IT IS THE RESPONSIBILITY OF THE INSTALLATION TECHNICIAN TO ENSURE THAT THE GENERATOR INSTALLATION COMPLIES WITH ALL APPLICABLE CODES, STANDARDS, AND REGULATIONS.
13. 132 GALLON USEABLE CAPACITY BASETANK IS INCLUDED WITH GENERATOR.
14. UNIT IS SHIPPED WITH FUEL SUPPLY AND RETURN LINES DISCONNECTED AND PLUGGED BETWEEN ENGINE AND FUEL TANK. THIS HAS BE DONE TO FACILITATE PRESSURE TESTING OF THE TANK IN THE FIELD. FOR INFORMATION REGARDING CONNECTING THE FUEL SUPPLY AND RETURN LINES PRIOR TO START UP, SEE THE FUEL TANK FIELD TESTING PROCEDURE (OE5082) SUPPLIED IN THE TANK LOOSE VENT KIT, WHICH IS SHIPPED WITH THIS GENERATOR.
15. SEE DRAWING OC3850 FOR DISCHARGE DUCT REMOVAL, REMOVAL OF DUCT WILL PROVIDE ACCESS TO MUFFLER FOR SERVICING.

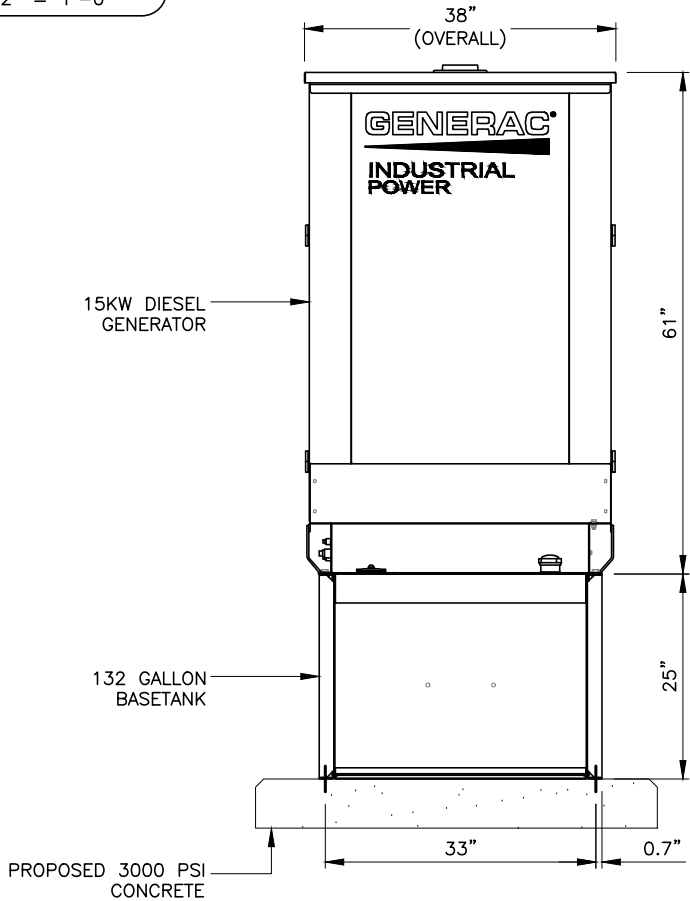
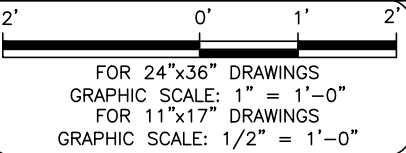
WEIGHT DATA: (INCLUDES EMPTY FUEL TANK)
GENERATOR: 2940 LBS



GENERATOR PLAN VIEW

SCALED AS NOTED

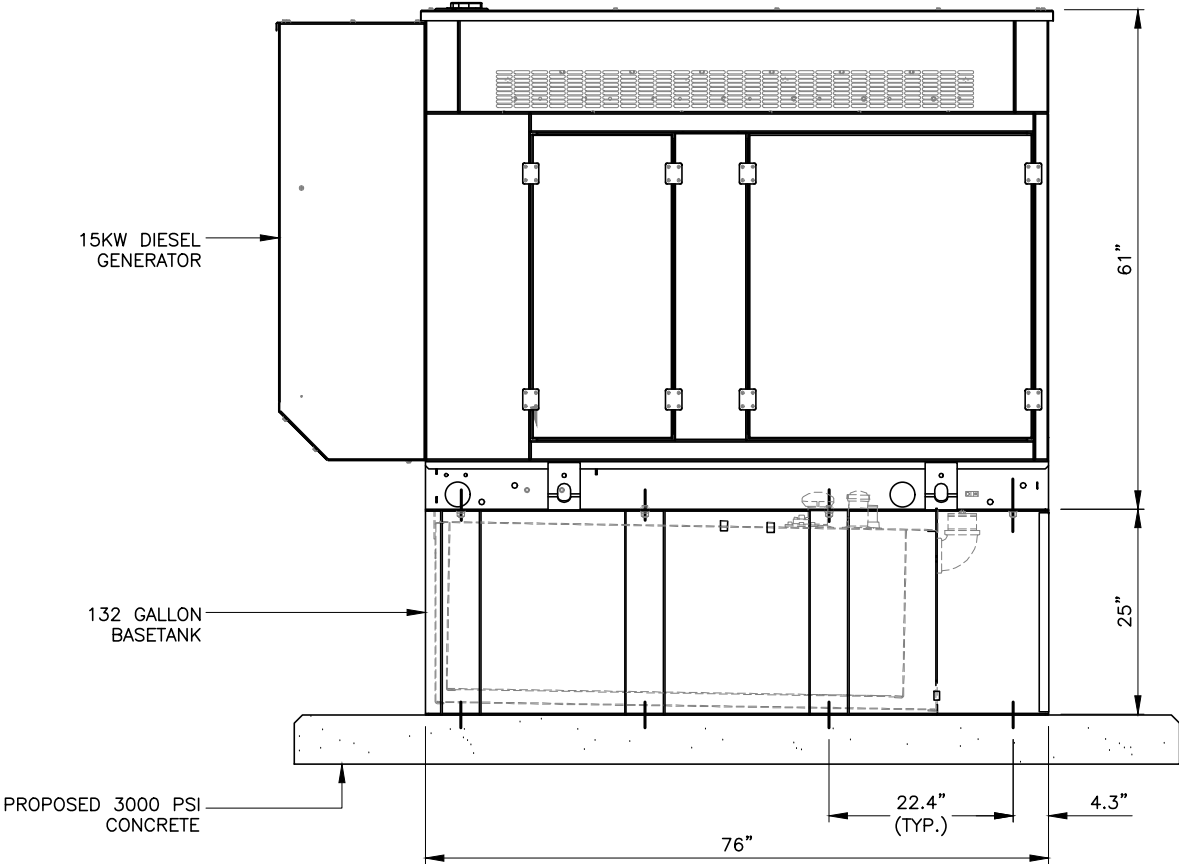
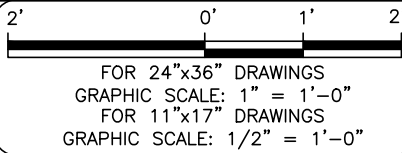
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GENERATOR END VIEW

SCALED AS NOTED

2



GENERATOR SIDE VIEW

SCALED AS NOTED

3

REV	DATE	DESCRIPTION
A	05/25/18	PRELIM PLANS
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1	10/20/20	PLANS RE-ISSUED
2	02/05/21	REVISED PER COMMENTS

PROJECT NO.: 18-5793

DRAWN BY: B. BERGERON

PROJECT MANAGER: D. REVELS

CHECKED BY: M. MURPHY

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(GAN015)

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(ALACHUA COUNTY)

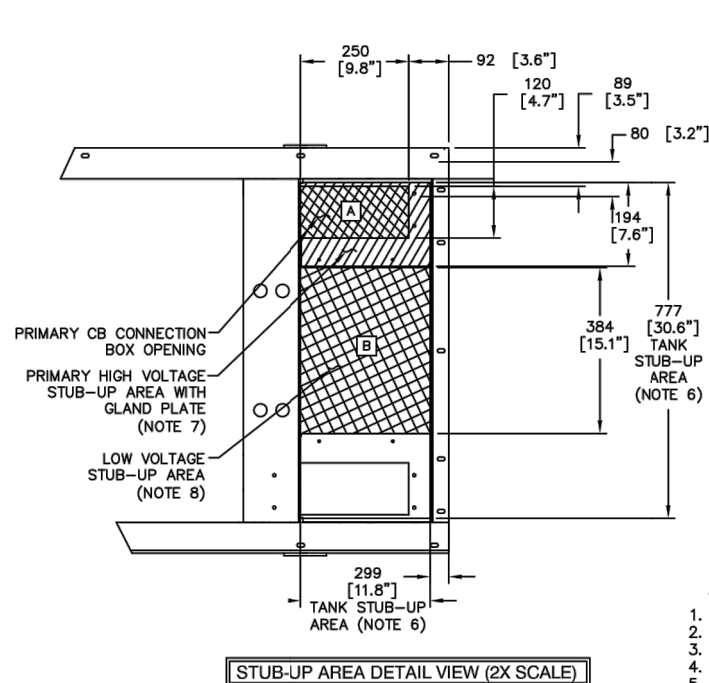
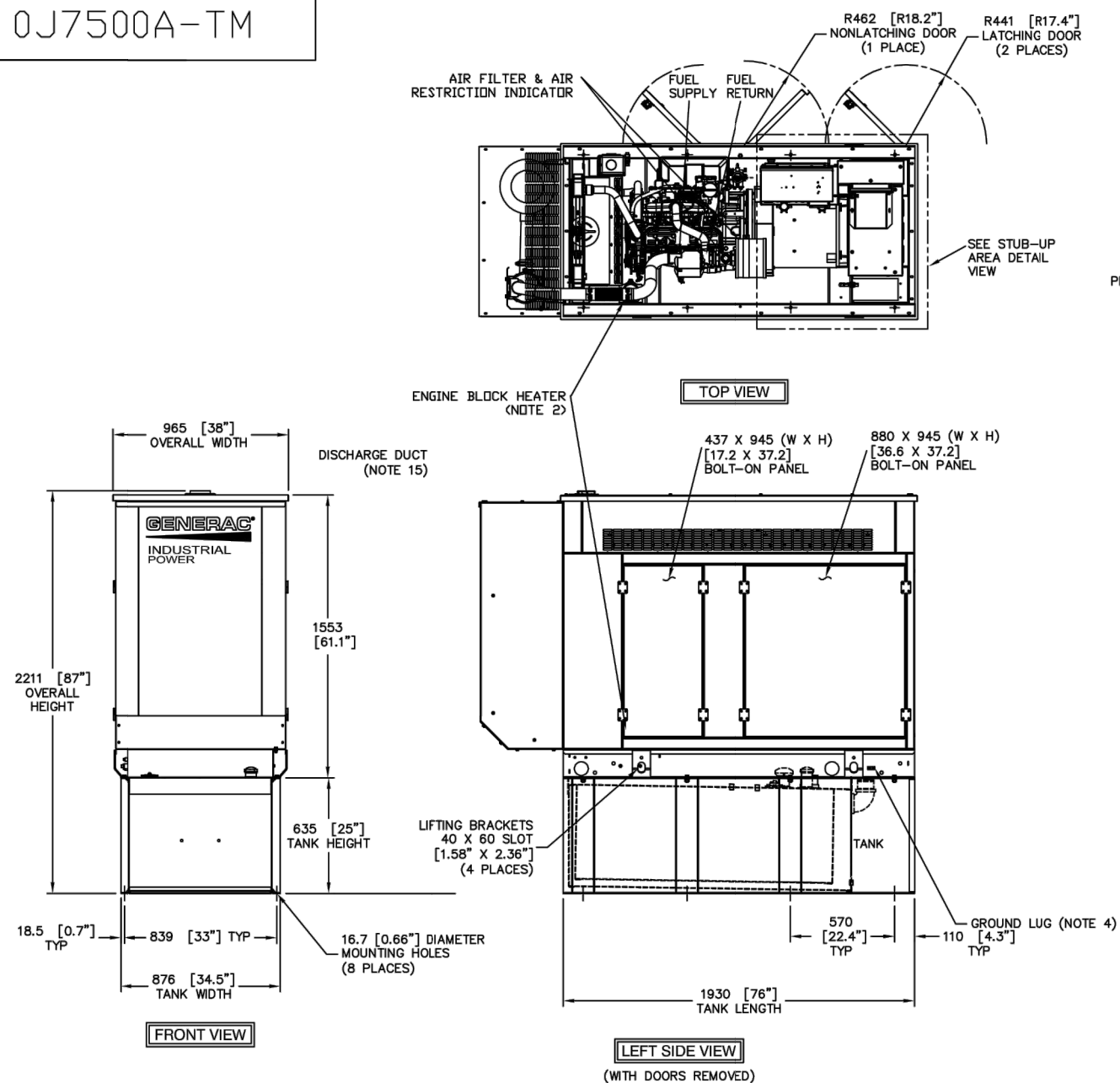
SHEET NAME

GENERATOR
DETAILS

SHEET NUMBER

C3

0J7500A-TM



RECOMMENDED ELECTRICAL STUB-UPS (SEE DETAILED VIEW & TOP VIEW)	
DESCRIPTION	INSIDE BASE
HIGH VOLTAGE STUB-UP AREA 1) AC LOAD LEAD CONDUIT AREA. 2) 120/240 VAC FROM UTILITY (BY OTHERS) (GLAND PLATE INCLUDED)	A
LOW VOLTAGE STUB-UP AREA 1) TRANSFER SWITCH/ COMMUNICATION CONDUITS, COMMUNICATIONS AND 2-WIRE START MUST NOT BE RUN IN CONDUIT WITH AC WIRING. (SEE NOTE 8)	B

NOTES:

- CONTROL PANEL INCLUDES BATTERY CHARGER WITH THREE PRONG CORD.
- 1500W 120VAC ENGINE BLOCK HEATER WITH THREE PRONG CORD.
- 12 VOLT NEGATIVE GROUND SYSTEM.
- GENERATOR MUST BE GROUNDED.
- CENTER OF GRAVITY & WEIGHT MAY SHIFT SLIGHTLY DUE TO UNIT OPTIONS.
- STUB-UPS: BASE TANK REQUIRES ALL STUB-UPS TO BE IN THE REAR TANK STUB-UP AREA.
- HIGH VOLTAGE STUB-UP AREA INCLUDES THE AC LOAD LEAD CONNECTION TO THE MAIN LINE CIRCUIT BREAKER, THE NEUTRAL CONNECTION, AND AUXILIARY 120/240V CONNECTION.
- CONNECTION POINTS FOR CONTROL WIRES. BOTTOM OF LOW VOLTAGE CUSTOMER CONNECTION BOX HAS KNOCKOUTS FOR 1/2" AND 3/4" CONDUIT FITTINGS.
- MUST ALLOW FREE FLOW OF DISCHARGE AIR AND EXHAUST. SEE SPEC SHEET FOR MINIMUM AIR FLOW AND MAXIMUM RESTRICTION REQUIREMENTS.
- MUST ALLOW FREE FLOW OF INTAKE AIR. SEE SPEC SHEET FOR MINIMUM AIR FLOW AND MAXIMUM RESTRICTION REQUIREMENTS.
- GENERATOR MUST BE INSTALLED SUCH THAT FRESH COOLING AIR IS AVAILABLE AND THAT DISCHARGE AIR FROM THE RADIATOR IS NOT RECIRCULATED.
- IT IS THE RESPONSIBILITY OF THE INSTALLATION TECHNICIAN TO ENSURE THAT THE GENERATOR INSTALLATION COMPLIES WITH ALL APPLICABLE CODES, STANDARDS, AND REGULATIONS.
- 132 GALLON USEABLE CAPACITY BASETANK IS INCLUDED WITH GENERATOR.
- UNIT IS SHIPPED WITH FUEL SUPPLY AND RETURN LINES DISCONNECTED AND PLUGGED BETWEEN ENGINE AND FUEL TANK. THIS HAS BEEN DONE TO FACILITATE PRESSURE TESTING OF THE TANK IN THE FIELD. FOR INFORMATION REGARDING CONNECTING THE FUEL SUPPLY AND RETURN LINES PRIOR TO START UP, SEE THE FUEL TANK FIELD TESTING PROCEDURE (0E5082) SUPPLIED IN THE TANK LOOSE VENTS KIT, WHICH IS SHIPPED WITH THIS GENERATOR.
- SEE DRAWING 0C3850 FOR DISCHARGE DUCT REMOVAL. REMOVAL OF DUCT WILL PROVIDE ACCESS TO MUFFLER FOR SERVICING.

WEIGHT DATA: (INCLUDES EMPTY FUEL TANK)
GENERATOR: 1334 KG (2940 LBS)
GENERATOR WITH WOODEN SHIPPING SKID: 1393 KG (3070 LBS)

UNITS: mm [INCHES]

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INSTALL SD15 SSS DIESEL 2.4L
LV2A OUTDOOR SOUND ATTENUATED
WITH 132 GALLON U.L. 142
DOUBLE WALL FUEL TANK BASE

GENERAC POWER
SYSTEMS
Waukesha
P.O. BOX 8
WAUKESHA, WIS. 53187

FILE NAME	0J7500A-TM.DWG	SIZE	B
SCALE	1 = 30	FIRST USE	
DWG NO.	0J7500A-TM	REV	A

INSTALLATION DRAWING

REV	DATE	DESCRIPTION
A	05/25/18	PRELIM PLANS
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PROJECT NO.:	18-5793
DRAWN BY:	B. BERGERON
PROJECT MANAGER:	D. REVELS
CHECKED BY:	M. MURPHY

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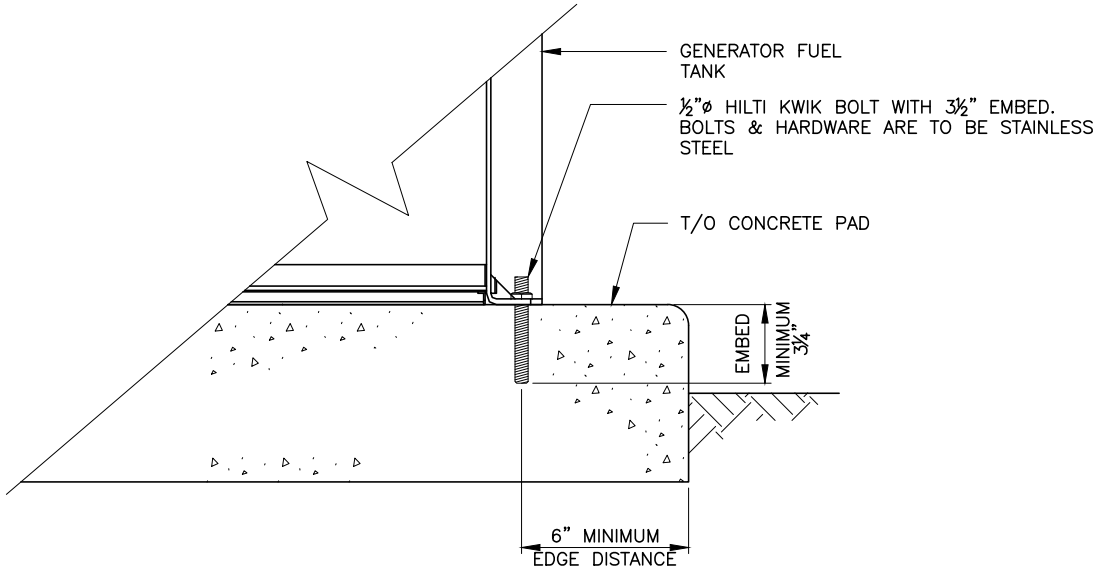
JEREMY D. SHARIT PE FL LIC 75137

NW 73RD PLACE
(GAN015)

9JK1268-A

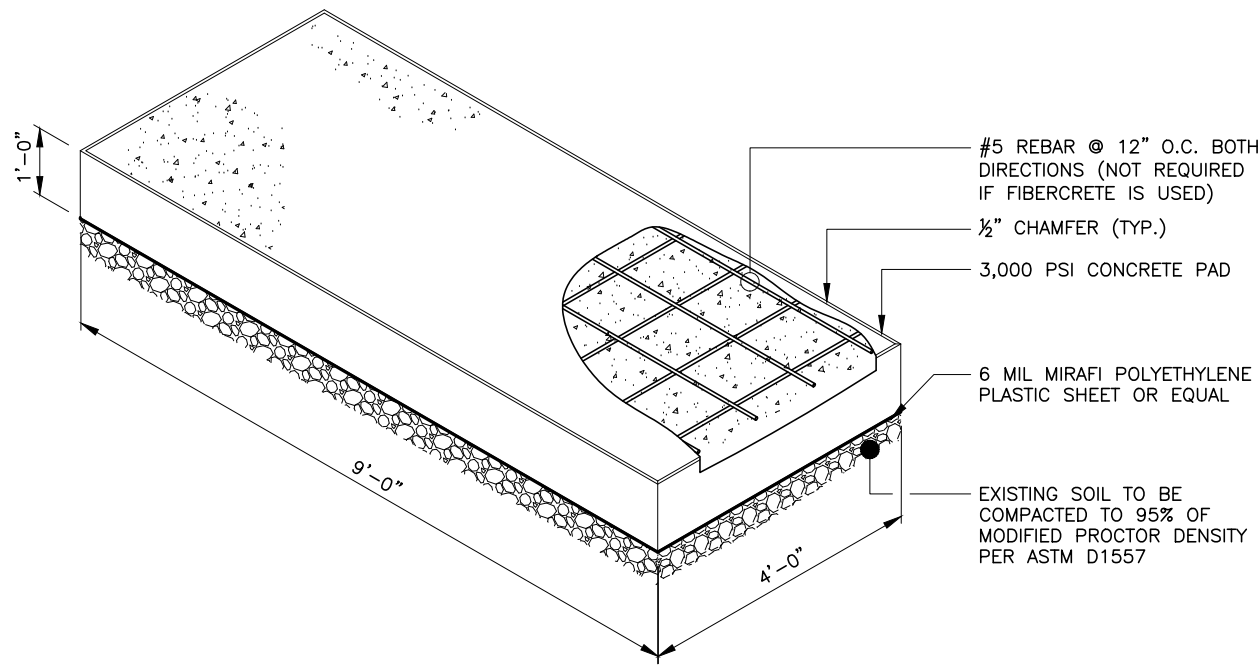
2498 NW 73RD PLACE
GAINESVILLE, FLORIDA 32653
(ALACHUA COUNTY)

SHEET NAME	GENERATOR TANK DETAILS
SHEET NUMBER	C3.1



GENERATOR ANCHORING DETAIL

NTS 1



- NOTES:
1. ALL CONCRETE TO HAVE A COMPRESSIVE STRENGTH OF $f_c' = 3000$ PSI WITH COMMERCIAL GRADE FIBER MESH REINFORCEMENT 1.5# PER CU. YARD
 2. CONCRETE PAD IS DESIGNED TO BEAR ON 2000 PSF SOIL BEARING CAPACITY TO BE VERIFIED AT TIME OF EXCAVATION BY A SOILS ENGINEER REGISTERED IN THE STATE OF FLORIDA


NOTE:
CHOICE OF FIBERCRETE OR CONCRETE PAD TO BE MADE IN THE FIELD BY T-MOBILE CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.

GENERATOR PAD FOUNDATION DETAIL

NTS 2

REV	DATE	DESCRIPTION
A	05/25/18	PRELIM PLANS
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(ALACHUA COUNTY)

SHEET NAME
PAD & ANCHORING
DETAILS

SHEET NUMBER
C4

A – GENERAL

- A1. ALL ELECTRICAL WORK SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE (EDITION ADOPTED BY LOCAL JURISDICTION) AND APPLICABLE LOCAL CODES.
- A2. GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRIC CODE.
- A3. ALL ELECTRICAL EQUIPMENT AND ACCESSORIES SHALL BE U.L. APPROVED OR LISTED.
- A4. ALL POWER WIRING SHALL BE STRANDED COPPER, TYPE THHN/THHW, AND 90 DEGREES C RATED.
- A5. GROUNDING ELECTRODE CONDUCTORS SHALL BE BARE, TIN COATED COPPER AND EQUIPMENT GROUND CONDUCTORS SHALL BE GREEN INSULATED, UNLESS OTHERWISE NOTED.
- A6. ALL POWER WIRING SHALL BE INSTALLED IN GALVANIZED RIGID STEEL CONDUIT, PVC, OR FLEXIBLE LIQUIDTIGHT CONDUIT, AS INDICATED.
- A7. CONTRACTOR SHALL OBTAIN ALL PERMITS, PAY PERMIT FEES, AND SCHEDULE INSPECTIONS.
- A8. CONTRACTOR SHALL APPLY FOR ELECTRICAL SERVICE AS SOON AS POSSIBLE AND COORDINATE REQUIREMENTS, SERVICE ROUTING, AND METER SOCKET TYPE WITH LOCAL POWER COMPANY.
- A9. CONTRACTOR SHALL APPLY FOR TELEPHONE SERVICE AS SOON AS POSSIBLE AND COORDINATE REQUIREMENTS AND SERVICE ROUTING WITH TELEPHONE COMPANY.
- A10. PROVIDE ALL LABOR AND MATERIAL DESCRIBED ON THIS DRAWING, AND ALL ITEMS INCIDENTAL TO COMPLETING AND PRESENTING THIS PROJECT AS FULLY OPERATIONAL.
- A11. WHERE LONG POWER CABLE RUNS PREVAIL, CONTRACTOR SHALL CALCULATE THE VOLTAGE DROP AND SIZE WIRES AND CONDUIT ACCORDINGLY.
- A12. WHERE TRANSFORMER IS REQUIRED FOR ELECTRICAL SERVICE, TRANSFORMER SECONDARY SHALL BE GROUNDED PER N.E.C., ARTICLE 250–26.
- A13. REFER TO SITE SPECIFIC DWGS FOR ELEVATIONS.
- A14. ALL ELECTRICAL DEVICES EXPOSED TO WEATHER SHALL BE OF RAINPROOF CONSTRUCTION AND SHALL REQUIRE WATER TIGHT CONDUIT HUBS. NEMA 3R TYPICAL
- A15. CONTRACTOR SHALL COIL CABLES AT HANDHOLE WITH LENGTHS AS REQUIRED BY ELECTRICAL UTILITY FOR CONNECTION BY UTILITY.
- A16. ALL UNDERGROUND SERVICE ENTRANCE POWER CABLES SHALL BE TYPE FOR SUCH USE. CONTRACTOR SHALL CALCULATE VOLTAGE DROP AND RE–SIZE CABLES PER NEC REQUIREMENTS FOR CABLE RUNS EXCEEDING 250 FEET.

B – POWER CABLE AND SERVICE

- B1. CONTRACTOR SHALL PROVIDE CONDUIT AND WIRING TO BTS AND VERIFY EXACT CONDUIT ROUTING. RACEWAY SYSTEM MATERIALS AND DEVICES FURNISHED SHALL BE IN ACCORDANCE WITH APPLICABLE STANDARDS OF ANSI, NEMA, AND UL. RACEWAY SYSTEM COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF THE N.E.C.
- B2. CONTRACTOR SHALL SEAL AROUND ALL CONDUIT PENETRATIONS THROUGH WALLS, FLOORS AND ROOFS TO PREVENT MOISTURE PENETRATION OR VERMIN INFESTATION.
- B3. CONDUCTORS RUNNING ALONG HORIZONTAL SURFACES (ROOF TOP OR SLAB) SHALL BE INSTALLED IN RIGID CONDUIT SUPPORTED ON ELECTRICAL CONDUIT SUPPORT.
- B4. ALL VERTICAL RUNS OF POWER CABLE EXCEEDING 80 FEET IN LENGTH SHALL BE SUPPORTED PER N.E.C. ARTICLE 300 USING KELLEMS GRIPS OR ACCEPTABLE EQUAL CABLE SUPPORT SYSTEM.
- B5. WHERE A SEPARATE ELECTRICAL SERVICE DROP IS ADDED, CONTRACTOR SHALL INSTALL PERMANENT SERVICE DISCONNECT OR GROUPING THEREOF, DENOTING ALL OTHER SERVICE ENTRANCES, LOCATION OF EACH AND THE AREAS SERVED BY EACH.
- B6. WHERE ELECTRICAL POWER IS TO BE SUB–FED FROM AN EXISTING DISTRIBUTION SYSTEM, THE FOLLOWING SHALL APPLY:
- A) CONTRACTOR SHALL PERFORM LOAD TESTING TO DETERMINE MAXIMUM FEEDER DEMAND PER N.E.C. ARTICLE 220–35.
- B) CONTRACTOR SHALL VERIFY WHETHER EXISTING FEEDER CAPACITY EXCEEDS VALUE CALCULATED PER N.E.C. ARTICLE 220–35
- C) EACH BRANCH CIRCUIT PROTECTIVE DEVICE SHALL HAVE SAME INTERRUPTING RATING AS EQUIPMENT SUPPLYING IT.
- D) PREFERRED MEANS OF SUPPLY SHALL BE A BRANCH CIRCUIT PROTECTIVE DEVICE LOCATED IN EXISTING PANEL.
- E) IF A BRANCH CIRCUIT PROTECTIVE DEVICE CANNOT BE OBTAINED OR SPACE IS NOT AVAILABLE, A BRANCH CIRCUIT MAY BE TAPPED FROM EXISTING FEEDER CONDUCTORS USING AN INSTALLED 2–POLE FUSED DISCONNECT AND METER BASE PER N.E.C. ARTICLE 240–21 WITH TEN FOOT (10) MAXIMUM TAP CONDUCTORS. FUSED DISCONNECT SHALL BE LISTED SAME OR BETTER INTERRUPTING RATING AS EXISTING SOURCE OF SUPPLY.

C – RF (COAX) AND LOW VOLTAGE CABLE


- C1. RF CABLES AND LOW VOLTAGE CABLING BETWEEN BTS, LNA OR TMA AND ANTENNA SHALL BE SUPPORTED USING ANDREW "SNAP–IN" HANGERS OR ACCEPTABLE EQUAL.
- C2. RF CABLES AND LOW VOLTAGE CABLING BETWEEN BTS, LNA OR TMA AND ANTENNA SHALL BE ROUTED AS FOLLOWS:
- A) RUNNING ALONG HORIZONTAL SURFACES: USE WAVEGUIDE SUPPORTS OR BRIDGE KIT MOUNTED ON CONCRETE SLEEPERS.
- B) RUNNING ALONG VERTICAL TOWER FACE: WAVEGUIDE LADDER W/HANGERS OR KELLEMS GRIPS.
- C) RUNNING ALONG OR ADJACENT TO BTS PLATFORM: USE 12 X 3 OPEN OR COVERED ELECTRICAL LADDER TRAY.

D – IDENTIFICATION

- D1. LOCATE NAMEPLATE, MARKING, OR OTHER IDENTIFICATION MEANS ON OUTSIDE EQUIPMENT OR BOX FRONT COVERS.
- D2. PROVIDE NAMEPLATE ENGRAVED WITH EQUIPMENT DESIGNATION FOR EACH SAFETY SWITCH AND ALL OTHER ELECTRICAL CABINETS, ETC.
- D3. DURING TRENCH BACK–FILLING FOR EACH UNDERGROUND ELECTRICAL, TELEPHONE, SIGNAL AND COMMUNICATIONS LINE, PROVIDE A CONTINUOUS UNDERGROUND WARNING TAPE TWELVE INCHES BELOW FINISHED GRADE.

REV	DATE	DESCRIPTION
A	05/25/18	PRELIM PLANS
0	06/04/18	PERMIT PLANS
1	10/20/20	PLANS RE–ISSUED
2	02/05/21	REVISED PER COMMENTS
PROJECT NO.:		18–5793
DRAWN BY:		B. BERGERON
PROJECT MANAGER:		D. REVELS
CHECKED BY:		M. MURPHY

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ENGINEERING GROUP, INC.

TOGETHER PLANNING A BETTER TOMORROW

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TEMPLE TERRACE, FLORIDA 33637
(813) 615–1422

CERTIFICATE OF AUTHORIZATION 33693



stick together

7025 A.C. SKINNER PARKWAY
JACKSONVILLE, FL 32256

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NW 73RD PLACE
(GAN015)

9JK1268–A

2498 NW 73RD PLACE
GAINESVILLE, FLORIDA 32653
(ALACHUA COUNTY)

SHEET NAME

ELECTRICAL
NOTES

SHEET NUMBER

E1

A – GENERAL

- A1. INSTALLATION OF GROUNDING ELECTRODE SYSTEM SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRIC CODE AND WITH ALL BUILDING CODES OF AUTHORITIES HAVING JURISDICTION.
- A2. GROUNDING CONDUCTORS SHALL BE #2 AWG TINNED SOLID BARE COPPER BELOW AND ABOVE GRADE, UNLESS OTHERWISE NOTED AND SHALL BE ROUTED IN A DOWNWARD PATH TOWARDS GROUND BARS.
- A3. GROUNDING CONDUCTORS SHALL BE KEPT AS SHORT AND DIRECT AS POSSIBLE WITH MINIMUM BEND RADIUS OF 12 INCHES.
- A4. ALL BELOW GRADE CONNECTIONS SHALL BE CADWELD TYPE CONNECTIONS AND ALL CONNECTIONS TO EQUIPMENT AND GROUND BARS SHALL BE 2–HOLE BRONZE COMPRESSION CONNECTORS UNLESS OTHERWISE NOTED.
- A5. CONTRACTOR SHALL INSTALL NEW PCS GROUNDING SYSTEM PER SPECIFICATIONS AND INTERCONNECT NEW SYSTEMS TO ANY EXISTING GROUNDING SYSTEMS AS REQUIRED BY NFPA 70 AND 780 (THIS APPLIES TO ELECTRICAL POWER DISTRIBUTION GROUNDING SYSTEM, LIGHTNING PROTECTION GROUNDING SYSTEM, COAX CABLE GROUNDING SYSTEM AND ANY OTHER EXISTING GROUNDING SYSTEMS).
- A6. GROUNDING CONDUCTORS SHALL BE BONDED TO CABLE SUPPORTS, ANTENNA FRAMES, AND ANY SUPPORT FRAMES OR RACKS USING CADWELD OR MECHANICAL CONNECTIONS.
- A7. CONTRACTOR SHALL PROVIDE LOCK WASHERS FOR ALL MECHANICAL CONNECTIONS FOR GROUND CONDUCTORS, STAINLESS STEEL HARDWARE SHALL BE USED THROUGHOUT.
- A8. GROUNDING CONDUCTORS EMBEDDED IN CONCRETE OR PENETRATING WALLS AND FLOORS SHALL BE ENCASED IN PVC CONDUIT. NO METALLIC CONDUIT SHALL BE USED FOR GROUNDING CONDUCTORS UNLESS REQUIRED BY LOCAL CODES OR OTHERWISE INDICATED ON DRAWINGS. CONTRACTOR SHALL SEAL AROUND ALL CONDUIT PENETRATIONS TO PREVENT MOISTURE PENETRATION AND VERMIN INFESTATION.
- A9. CONTRACTOR SHALL BOND PCS GROUNDING SYSTEM VIA THE MASTER GROUND BAR TO ALL METAL OBJECTS WITHIN 12 FEET OF EQUIPMENT, CONDUIT AND CABLES.
- A10. BONDING OF GROUNDED CONDUCTOR (NEUTRAL) AND GROUNDING CONDUCTOR SHALL BE AT SERVICE DISCONNECTING MEANS. BONDING JUMPER SHALL BE INSTALLED PER N.E.C. ARTICLE 250–28.
- A11. CONTRACTOR SHALL VERIFY EXACT CONDUIT ROUTING FOR GROUNDING CONDUCTORS WHERE APPLICABLE.
- A12. A GROUND LEAD IS REQUIRED ONLY FOR BTS SUPPORTED ON STEEL FRAME. AN ADDITIONAL GROUND LEAD IS REQUIRED IF CABLE TRAY IS USED.
- A13. CONNECTIONS TO CGB SHALL BE ARRANGED IN THE FOLLOWING THREE GROUPS:

* SURGE PRODUCERS (COAXIAL CABLE GROUND KITS, TELCO CABINET AND POWER PEDESTAL GROUND).

* SURGE ABSORBERS (GROUNDING ELECTRODE RING OR BUILDING STEEL).

* NON–SURGING OBJECTS (EGB GROUND IN BTS).
- A14. DOUBLING OR STACKING OF ANY GROUNDING CONNECTIONS IS NOT ACCEPTABLE.
- A15. ALL GROUND BARS SHALL BE INSTALLED WITH STAND OFF INSULATORS.

B – PREPARATION

- B1. SURFACES: ALL CONNECTIONS SHALL BE MADE TO BARE METAL. ALL PAINTED SURFACES SHALL BE FIELD INSPECTED TO ENSURE PROPER CONTACT. ALL GALVANIZED SURFACES ON WHICH GALVANIZING HAS BEEN REMOVED BY CUTTING, DRILLING, OR ANY OTHER OPERATION SHALL BE RE–GALVANIZED IN ACCORDANCE WITH ASTM A780 USING "ZINC RICH" COATING AS MANUFACTURED BY ZRC CHEMICAL PRODUCTS COMPANY (LOCATED IN QUINCY, MASSACHUSETTS), OR ACCEPTABLE EQUAL. NO WASHERS ARE ALLOWED BETWEEN ITEMS BEING GROUNDED. ALL CONNECTIONS ARE TO HAVE A NON–OXIDIZING AGENT ("COPPER SHIELD") APPLIED PRIOR TO INSTALLATION.
- B2. GROUND BAR: ALL COPPER GROUND BARS SHALL BE CLEANED, POLISHED AND A NON–OXIDIZING AGENT ("COPPER SHIELD") APPLIED. NO FINGER PRINTS OR DISCOLORED COPPER SHALL BE PERMITTED.

C – BUILDINGS

- C1. ELECTRICAL CONTRACTOR SHALL PERFORM REQUIRED TESTING ON GROUNDING SYSTEM ONCE GROUNDING SYSTEM IS COMPLETELY CONSTRUCTED AND BEFORE SERVICE POWER AND GROUND IS CONNECTED (SEE NOTE T1 FOR TEST DESCRIPTION).
- C2. A #4/0 AWG COPPER CONDUCTOR SHALL BE ROUTED FROM MASTER GROUND BAR AT BTS SITE TO MAIN METAL COLD WATER PIPE AND BONDED TO PIPE WITH BRONZE 2–HOLE PIPE CLAMP. CLAMP SHALL BE CONNECTED TO WATER PIPE WITHIN 5 FEET OF ENTRY OF PIPE INTO BUILDING WITH NO DEVICES BETWEEN ENTRY POINT AND CONNECTION AND SHALL COME IN CONTACT WITH PIPE FOR A MINIMUM DISTANCE OF 4 INCHES.
- C3. METAL RACEWAYS, ENCLOSURES, FRAMES AND OTHER NON–CURRENT CARRYING PARTS OF ELECTRICAL EQUIPMENT SHALL BE KEPT AT LEAST 6 FEET AWAY FROM LIGHTNING ROD CONDUCTORS OR THEY MUST BE BONDED TO LIGHTING ROD CONDUCTORS AT THE LOCATION WHERE SEPARATION DISTANCE IS LESS THAN 6 FEET.
- C4. A MASTER GROUND BAR (MGB) SHALL BE INSTALLED NEAR BTS WITH BUILDING PRINCIPAL GROUND BAR (BPG) INSTALLED NEAR ENTRANCE OF MAIN METAL COLD WATER PIPE INTO BUILDING. A #4/0 AWG STRANDED COPPER DOWN CONDUCTOR (VERTICAL GROUND RISER) SHALL BE USED TO INTERCONNECT GROUND BARS.
- C5. VERTICAL RISER SHALL CONSIST OF A #4/0 AWG (THWN) STRANDED COPPER CONDUCTOR INSIDE ¾" CONDUIT.
- C6. CONTRACTOR SHALL BOND BUILDING PRINCIPAL GROUND BAR (BPG) NEAR MAIN METAL COLD WATER PIPE TO EXISTING BUILDING GROUND RING AS WELL AS TO MAIN METAL COLD WATER PIPE WITH #4/0 AWG (THWN) STRANDED COPPER CONDUCTOR.
- C7. ANTENNA GROUND BARS (AGB) SHALL BE INSTALLED NEAR ANTENNAS AND SHALL BE BONDED TO MASTER GROUND BAR (MGB) WITH #2 AWG TINNED SOLID BARE COPPER CONDUCTOR.
- C8. IF CODES REQUIRE VERTICAL RISER TO BE ISOLATED IN CONDUIT, PVC CONDUIT IS PREFERRED. IF METALLIC CONDUIT IS USED, GROUNDING BUSHINGS SHALL BE INSTALLED ON EACH END OF THE CONDUIT AND BONDED TO GROUND BARS USING #2 AWG (THWN) STRANDED COPPER CONDUCTORS WITH GREEN INSULATION.

D – LAND BUILDS AND CO–LOCATES

- D1. THE GROUND ELECTRODE SYSTEM SHALL CONSIST OF DRIVEN GROUND RODS UNIFORMLY SPACED AROUND THE EQUIPMENT FOUNDATION AND AROUND THE PERIMETER OF THE TOWER FOUNDATION. THE GROUND RODS SHALL BE ¾" X 10'–0" COPPER CLAD STEEL INTERCONNECTED WITH #2 SOLID TINNED BARE COPPER GROUND CONDUCTOR TO FORM A GROUND RING AT A DEPTH OF 30 INCHES BELOW THE SURFACE OF THE SOIL. A MINIMUM OF 1 FOOT AND A MAXIMUM OF 3 FEET CLEARANCES SHALL BE MAINTAINED FROM FOUNDATIONS. TOWER AND EQUIPMENT GROUND RINGS SHALL BE INTERCONNECTED WITH TWO GROUNDING CONDUCTORS OF EQUAL LENGTH AND MATERIALS.
- D2. GROUND RODS SHALL BE BONDED TO GROUND RINGS AND INTERCONNECTING CONDUCTORS AT EQUAL INTERVALS OF APPROXIMATELY 10 FEET.
- D3. WAVEGUIDE BRIDGE SHALL BE BONDED TO GROUND RINGS OR INTERCONNECTING CONDUCTORS WITH GROUNDING CONDUCTORS BONDED TO DIAGONALLY OPPOSED SUPPORT POSTS.
- D4. GROUND BARS SHALL BE BONDED TO GROUND RING WITH SINGLE GROUNDING CONDUCTOR.
- D5. BONDS TO ANTENNA MASTS, FENCE POSTS, WAVEGUIDE BRIDGE, TOWER STEEL (UNLESS PROHIBITED BY TOWER MANUFACTURER) AND THOSE BELOW GRADE SHALL BE EXOTHERMIC TYPE (CADWELD). ALL OTHER BONDS SHALL BE BRONZE 2–HOLE COMPRESSION FITTINGS UNLESS OTHERWISE NOTED.
- D6. GROUNDING CONDUCTORS MAKING A TRANSITION FROM ABOVE TO BELOW GRADE SHALL BE INSULATED FROM EARTH CONTACT BY PASSING THROUGH PVC CONDUIT. THE CONDUIT SHALL EXTEND AT LEAST 6 INCHES ABOVE AND 12 INCHES BELOW GRADE LEVEL.

E – LIGHTNING PROTECTION

- E1. IF EXISTING BUILDING HAS AN NFPA 780 AIR TERMINAL SYSTEM, EXISTING SYSTEM SHALL BE BONDED TO A GROUND BAR TO BOND THE EXISTING SYSTEM TO THE NEW SYSTEM. SHOULD THE EXISTING SYSTEM COME WITHIN 8 FEET OF ANTENNA STRUCTURES, EXISTING SYSTEM SHALL ALSO BE BONDED TO COAX GROUND BARS.
- E2. IF SITE IS IN A HIGH RISK AREA AND ANTENNAS DO NOT FALL WITHIN EXISTING CONE OF PROTECTION FOR BUILDING, AIR TERMINALS SHALL BE INSTALLED AT ANTENNAS. A SINGLE AIR TERMINAL MAY BE USED WHEN TWO ANTENNAS ARE MOUNTED ON SAME STRUCTURE AND IT HAS BEEN DETERMINED THAT BOTH ANTENNAS WILL FALL WITHIN LIGHTNING CONE OF PROTECTION FOR SINGLE AIR TERMINAL.

T – GROUNDING REQUIREMENTS

- T1. CONTRACTOR SHALL INSPECT AND TEST ANY NEW OR EXISTING T–MOBILE GROUNDING SYSTEM WITH A BIDDLE–MEGGER TESTER UTILIZING THE FALL OF POTENTIAL METHOD AND CONTACT CONSTRUCTION MANAGER IF RESISTANCE EXCEEDS 5 OHMS AND SHALL FIELD MODIFY GROUNDING SYSTEM AS NECESSARY TO ACHIEVE COMPLIANCE. TEST RESULTS AND CONCLUSIONS SHALL BE RECORDED FOR PROJECT CLOSE–OUT DOCUMENTATION.
- T2. COAX CABLE OUTER CONDUCTORS (SHIELDS) SHALL BE GROUNDED USING COAX GROUNDING KITS AT A MINIMUM OF TWO POINTS, INCLUDING AT ANTENNA AND AT MASTER GROUND BAR. THE COAXIAL CABLE SHALL NOT EXCEED 100 FEET BETWEEN GROUNDING KITS.
- T3. GROUNDING CONDUCTOR CONSISTING OF 2–#2 AWG TINNED SOLID BARE COPPER WIRE SHALL BE BONDED TO WAVEGUIDE ENTRY GROUND BAR USING CADWELD CONNECTIONS.
- T4. COAX CABLE ENTERING A BUILDING SHALL BE GROUNDED WITH COAX GROUNDING KITS TO AN INSULATED COAX GROUND BAR WHICH SHALL BE INSTALLED ON THE OUTSIDE FACE OF THE BUILDING, BELOW THE CABLE ENTRY PORTS.
- T5. WHEN COAX CABLES ENTER A BUILDING FROM A TOWER, THE COAX GROUND BAR AT THE BUILDING SHALL BE CONNECTED TO THE EXTERNAL GROUND RING USING 2–#2 AWG BARE TINNED SOLID COPPER ISOLATED IN PVC CONDUIT.
- T6. WHEN COAX CABLES ENTER A BUILDING FROM A ROOF TOP, THE COAX GROUND BAR AT THE BUILDING SHALL BE CONNECTED TO THE MASTER GROUND BAR NEAR THE BTS USING #2 AWG STRANDED INSULATED COPPER CONDUCTOR (SEE BUILDINGS NOTES ON THIS DRAWING FOR CONNECTION TO PRINCIPLE GROUND BAR AND BUILDING GROUND).

REV	DATE	DESCRIPTION
A	05/25/18	PRELIM PLANS
0	06/04/18	PERMIT PLANS
1	10/20/20	PLANS RE–ISSUED
2	02/05/21	REVISED PER COMMENTS
PROJECT NO.:		18–5793
DRAWN BY:		B. BERGERON
PROJECT MANAGER:		D. REVELS
CHECKED BY:		M. MURPHY

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CERTIFICATE OF AUTHORIZATION 33693



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JACKSONVILLE, FL 32256

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JEREMY D. SHARIT PE FL LIC 75137

NW 73RD PLACE
(GAN015)

9JK1268–A

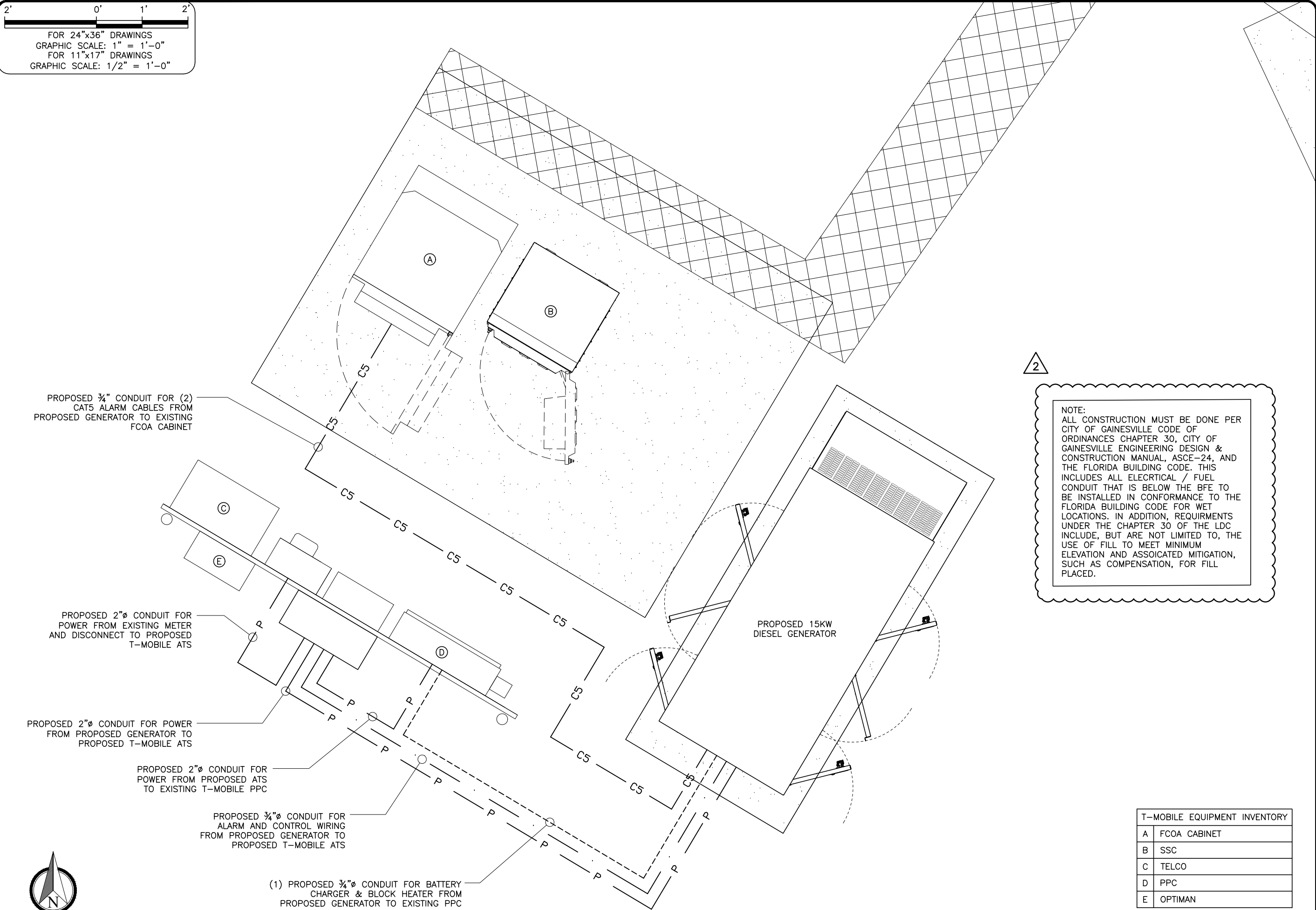
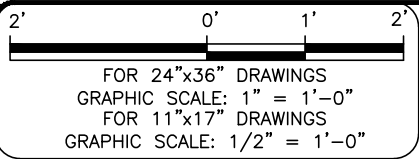
2498 NW 73RD PLACE
GAINESVILLE, FLORIDA 32653
(ALACHUA COUNTY)

SHEET NAME

GROUNDING
NOTES

SHEET NUMBER

E2



T-MOBILE EQUIPMENT INVENTORY	
A	FCOA CABINET
B	SSC
C	TELCO
D	PPC
E	OPTIMAN

REV	DATE	DESCRIPTION
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ENGINEERING GROUP, INC.
TOGETHER PLANNING A BETTER TOMORROW

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SHEET NAME

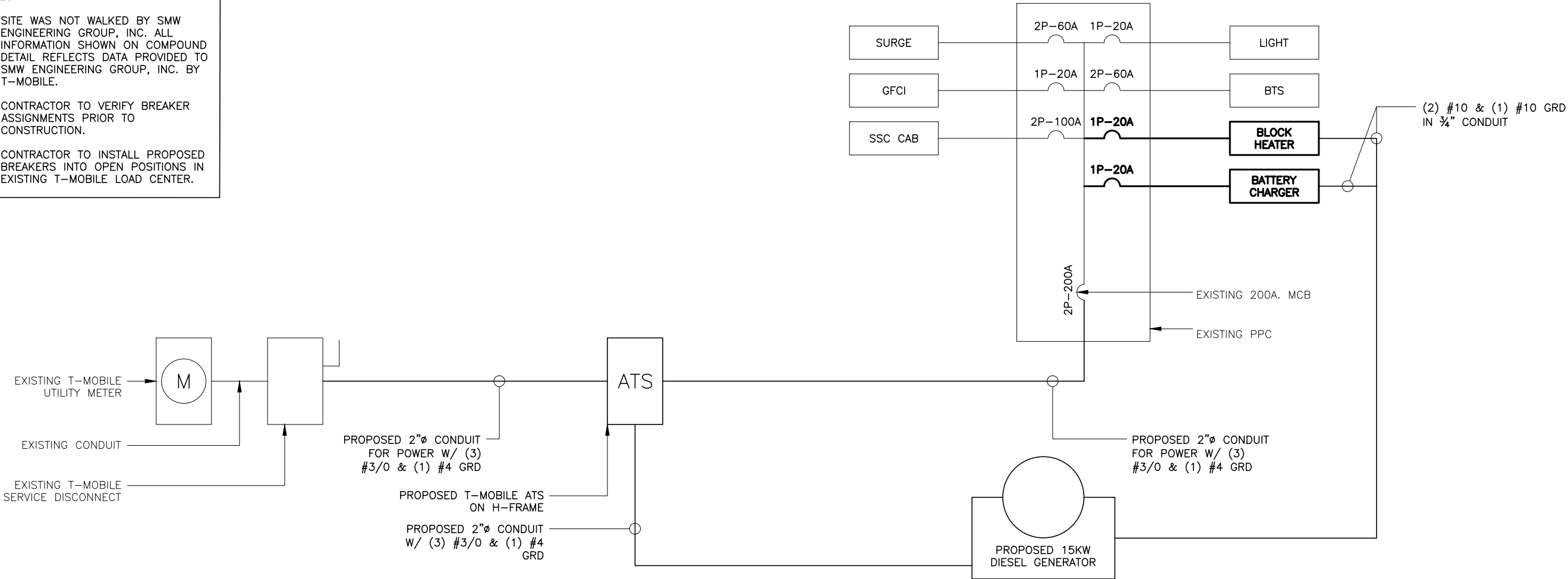
ENLARGED
CONDUIT ROUTING
PLAN

SHEET NUMBER

E3

NOTES:

1. SITE WAS NOT WALKED BY SMW ENGINEERING GROUP, INC. ALL INFORMATION SHOWN ON COMPOUND DETAIL REFLECTS DATA PROVIDED TO SMW ENGINEERING GROUP, INC. BY T-MOBILE.
2. CONTRACTOR TO VERIFY BREAKER ASSIGNMENTS PRIOR TO CONSTRUCTION.
3. CONTRACTOR TO INSTALL PROPOSED BREAKERS INTO OPEN POSITIONS IN EXISTING T-MOBILE LOAD CENTER.



ELECTRICAL ONE-LINE DIAGRAM

NTS

1

PANEL NAME: T-MOBILE		PANEL RATING		200 AMPS			PHASE 1			200 MCB			RATING 200 AMP		
LOCATION: H-FRAME				120/240 VOLTS			WIRE 3						MAIN LUG ONLY		
CKT	DESCRIPTION	KVA		AMP	WIRE	GND	COND	COND	GND	WIRE	AMP	KVA		DESCRIPTION	CKT
NO.		A	B	POLE							POLE	A	B		NO.
1	SURGE	-	-	60/2	(E)	(E)	(E)	(E)	(E)	(E)	20/1	0.5	-	LIGHT	2
3		-	-								(E)	(E)	(E)	60/2	0
5	GFCI	0.18	-	20/1	(E)	(E)	(E)	(E)	(E)	(E)	-	0	-		6
7	SSC CAB	4.8	-	100/2	(E)	(E)	(E)	3/4"	#10	#10	20/1	0.74	-	BLOCK HEATER	8
9		-	4.8					3/4"	#10	#10	20/1	-	0.74	BATTERY CHARGER	10
11	SPACE	-	-	-	-	-	-	-	-	-	-	-	-	SPACE	12
13	SPACE	-	-	-	-	-	-	-	-	-	-	-	-	SPACE	14
15	SPACE	-	-	-	-	-	-	-	-	-	-	-	-	SPACE	16
17	SPACE	-	-	-	-	-	-	-	-	-	-	-	-	SPACE	18
19	SPACE	-	-	-	-	-	-	-	-	-	-	-	-	SPACE	20
21	SPACE	-	-	-	-	-	-	-	-	-	-	-	-	SPACE	22
23	SPACE	-	-	-	-	-	-	-	-	-	-	-	-	SPACE	24
SUB TOTAL KVA (CONT)		0	0									0	0	SUB TOTAL KVA (CONT)	
SUB TOTAL KVA (NON-CONT)		4.98	4.8									1.24	0.74	SUB TOTAL KVA (NON-CONT)	
TOTAL KVA		11.8						49.0						TOTAL AMPS	
NON-CONT + 125% CONT.															

(*) CABINET HAS BEEN REMOVED FROM SITE

PROPOSED PANEL SCHEDULE

NTS

2

REV	DATE	DESCRIPTION
A	05/25/18	PRELIM PLANS
0	06/04/18	PERMIT PLANS
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PROJECT NO.: 18-5793	
DRAWN BY: B. BERGERON	
PROJECT MANAGER: D. REVELS	
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(GAN015)

9JK1268-A

2498 NW 73RD PLACE
GAINESVILLE, FLORIDA 32653
(ALACHUA COUNTY)

SHEET NAME

ONE-LINE AND
PANEL SCHEDULE

SHEET NUMBER

E4

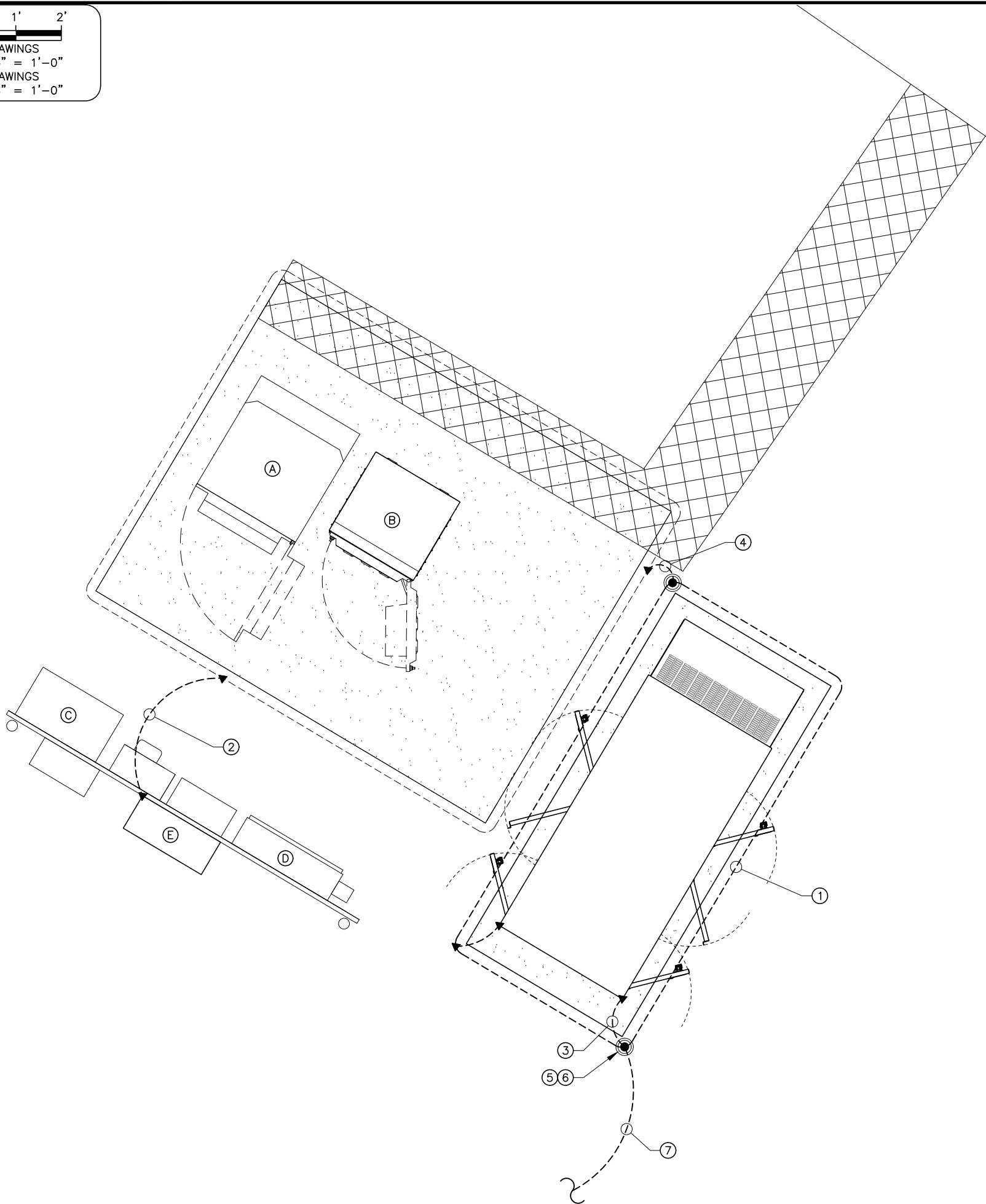
2'

0'

1'

2'

FOR 24"x36" DRAWINGS
GRAPHIC SCALE: 3/4" = 1'-0"
FOR 11"x17" DRAWINGS
GRAPHIC SCALE: 3/8" = 1'-0"



GROUNDING KEY NOTES:

- ① PROVIDE A #2 AWG SOLID BARE TINNED COPPER GROUND RING AROUND THE GENERATOR PAD, AS SHOWN. ALL EXTERIOR GROUNDING CONDUCTORS SHALL BE BURIED A MINIMUM OF 18" BELOW GRADE. THE GROUND RING SHALL BE INSTALLED 1'-0" AWAY FROM FOUNDATIONS (MINIMUM UNLESS SHOWN OTHERWISE ON DRAWINGS). WHERE REQUIRED DUE TO SOIL CONDITIONS AND THE PRESENCE OF ROCK, THE ROUTING OF THE GROUND RING MAY BE ADJUSTED (WITH APPROVAL FROM T-MOBILE). ALL BONDS TO THE BURIED GROUND RING SHALL BE WITH EXOTHERMIC WELDS.
- ② #2 AWG CASE BOND TO EXISTING T-MOBILE COPPER GROUND RING.
- ③ #2 AWG GENERATOR BOND TO PROPOSED T-MOBILE COPPER GROUND RING.
- ④ #2 AWG FROM PROPOSED T-MOBILE COPPER GROUND RING TO EXISTING T-MOBILE COPPER GROUND RING.
- ⑤ PROVIDE 6" DIAMETER PVC INSPECTION SLEEVE WITH REMOVABLE COVER IN LOCATION SHOWN. SEE GROUND ROD INSPECTION WELL DETAIL, SHEET E6, FOR TYPICAL GROUND RING INSPECTION SLEEVE. NOTE: INSPECTION SLEEVE CAN BE USED AS A TEST WELL FOR GROUND WATER LEVEL INSPECTION AND GROUND RESISTANCE TESTING.
- ⑥ INSTALL A 5/8" x 10' LONG COPPERCLAD STEEL GROUND ROD. SPACING BETWEEN RODS NOT TO EXCEED 16' (NONLINEAR). TYPICAL FOR ALL GROUND RODS SHOWN, UNLESS NOTED OTHERWISE. SEE GROUND ROD INSPECTION WELL DETAIL, SHEET E6. IF ROCK IS ENCOUNTERED, GROUND ROD MAY BE INSTALLED WITH A MAXIMUM VARIATION OF 30' FROM VERTICAL AND CONTRACTOR SHALL BE PREPARED TO CORE DRILL TO INSTALL GROUND RODS AND BACKFILL WITH GROUND ENHANCEMENT MATERIAL.
- ⑦ #2 AWG FENCE BOND

KEY

▼ BOND

● INSPECTION WELL

T-MOBILE EQUIPMENT INVENTORY	
A	FCOA CABINET
B	SSC
C	TELCO
D	PPC
E	OPTIMAN

REV	DATE	DESCRIPTION
A	05/25/18	PRELIM PLANS
0	06/04/18	PERMIT PLANS
1	10/20/20	PLANS RE-ISSUED
2	02/05/21	REVISED PER COMMENTS
PROJECT NO.:		18-5793
DRAWN BY:		B. BERGERON
PROJECT MANAGER:		D. REVELS
CHECKED BY:		M. MURPHY

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TEMPLE TERRACE, FLORIDA 33637
(813) 615-1422

CERTIFICATE OF AUTHORIZATION 33693



7025 A.C. SKINNER PARKWAY
JACKSONVILLE, FL 32256

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JEREMY D. SHARIT PE FL LIC 75137

NW 73RD PLACE
(GAN015)

9JK1268-A

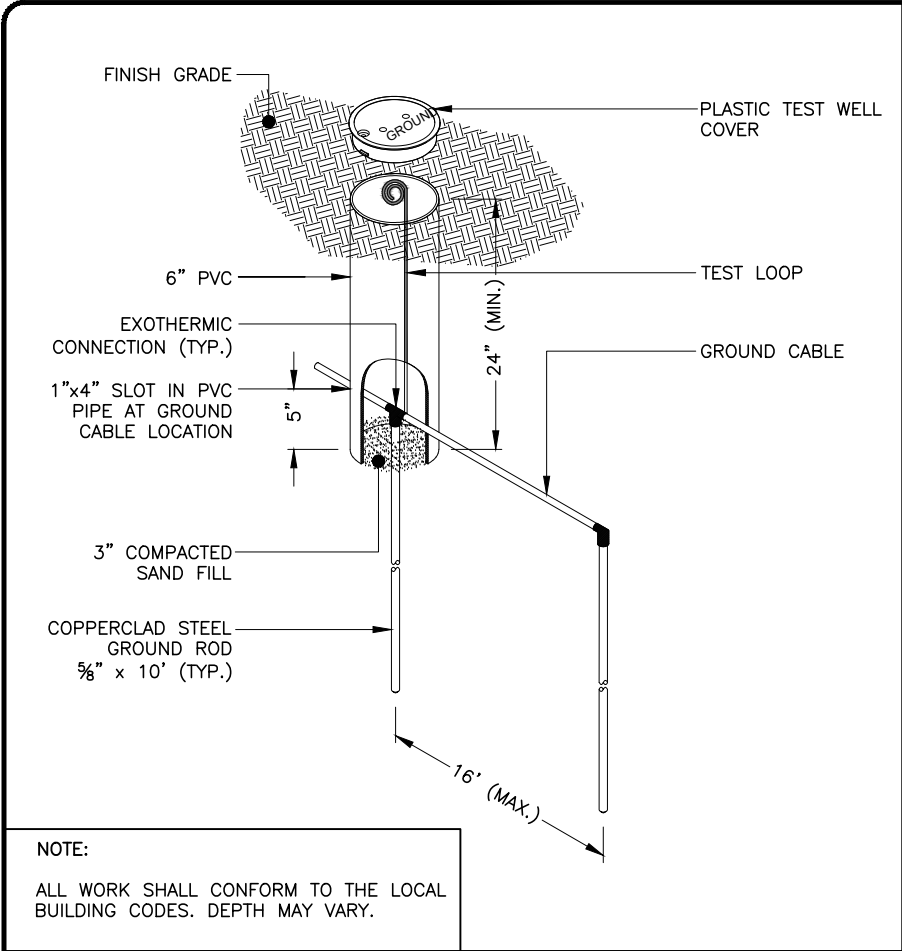
2498 NW 73RD PLACE
GAINESVILLE, FLORIDA 32653
(ALACHUA COUNTY)

SHEET NAME

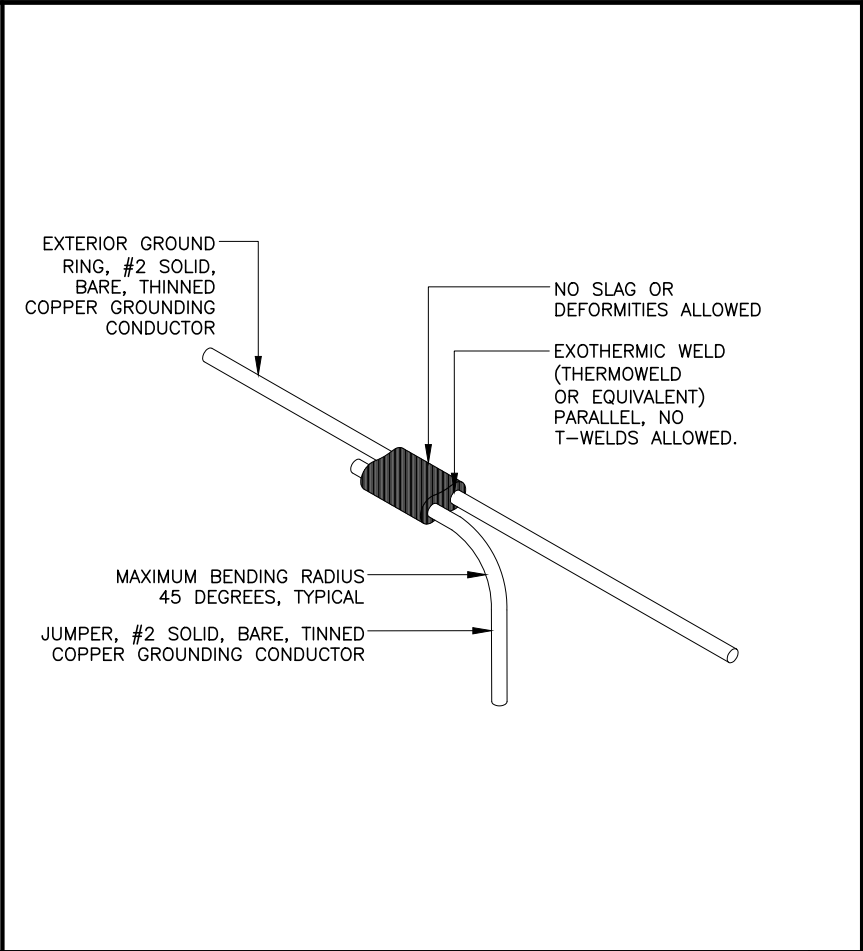
GROUNDING PLAN

SHEET NUMBER

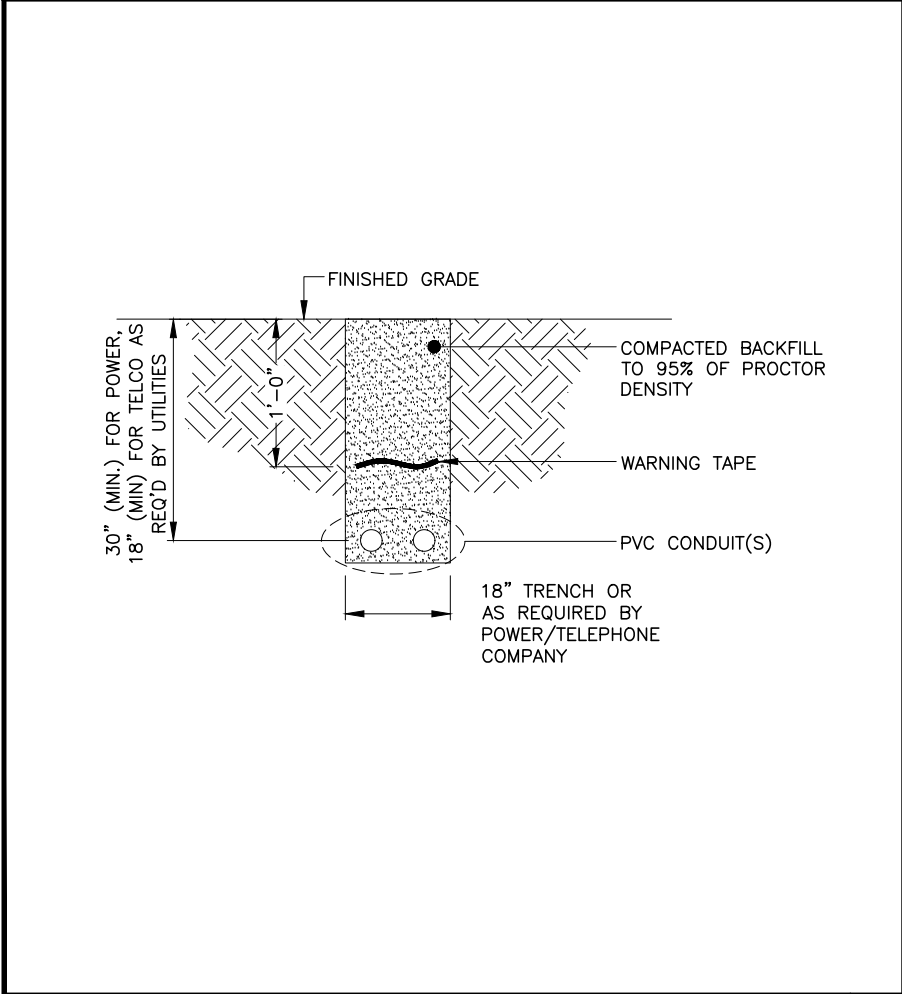
E5



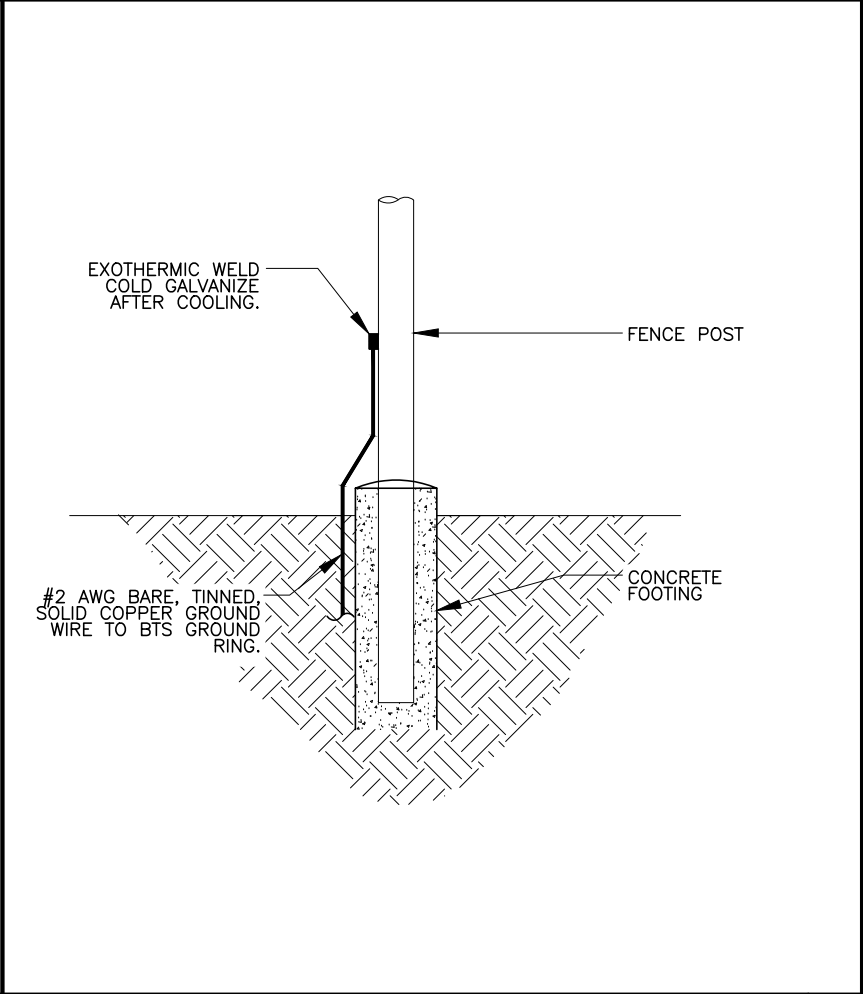
GROUND ROD INSPECTION WELL DETAIL NTS 1



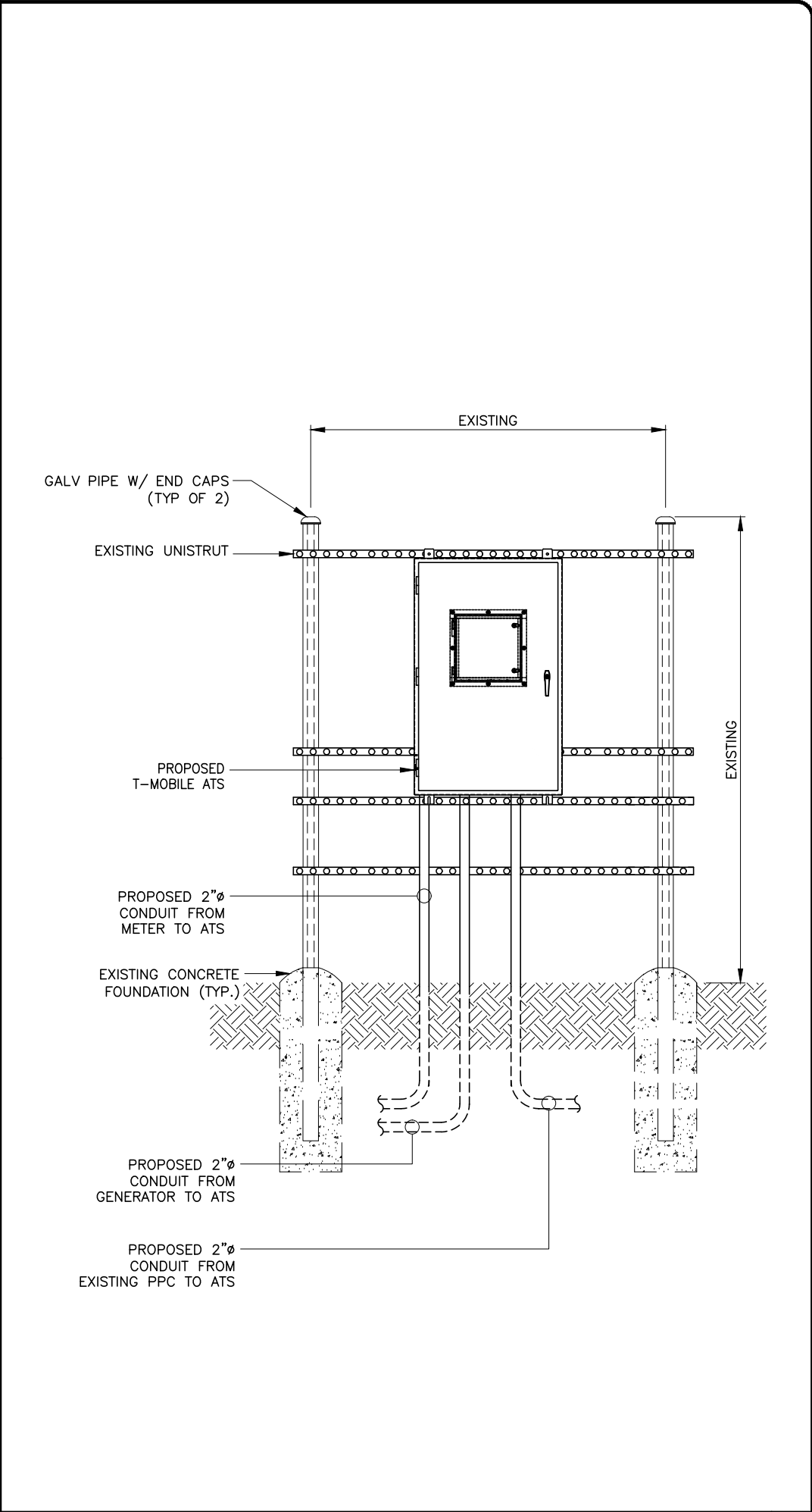
EXOTHERMIC WELD DETAIL NTS 2



UTILITY TRENCH DETAIL NTS 3



FENCE POST BONDING DETAIL NTS 4



TYPICAL RISER DIAGRAM NTS 5

REV	DATE	DESCRIPTION
A	05/25/18	PRELIM PLANS
0	06/04/18	PERMIT PLANS
1	10/20/20	PLANS RE-ISSUED
2	02/05/21	REVISED PER COMMENTS

PROJECT NO.: 18-5793

DRAWN BY: B. BERGERON

PROJECT MANAGER: D. REVELS

CHECKED BY: M. MURPHY

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TOGETHER PLANNING A BETTER TOMORROW

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T-Mobile
stick together

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JEREMY D. SHARIT PE FL LIC 75137

NW 73RD PLACE (GAN015)

9JK1268-A

2498 NW 73RD PLACE
GAINESVILLE, FLORIDA 32653
(ALACHUA COUNTY)

SHEET NAME

GROUNDING DETAILS

SHEET NUMBER

E6

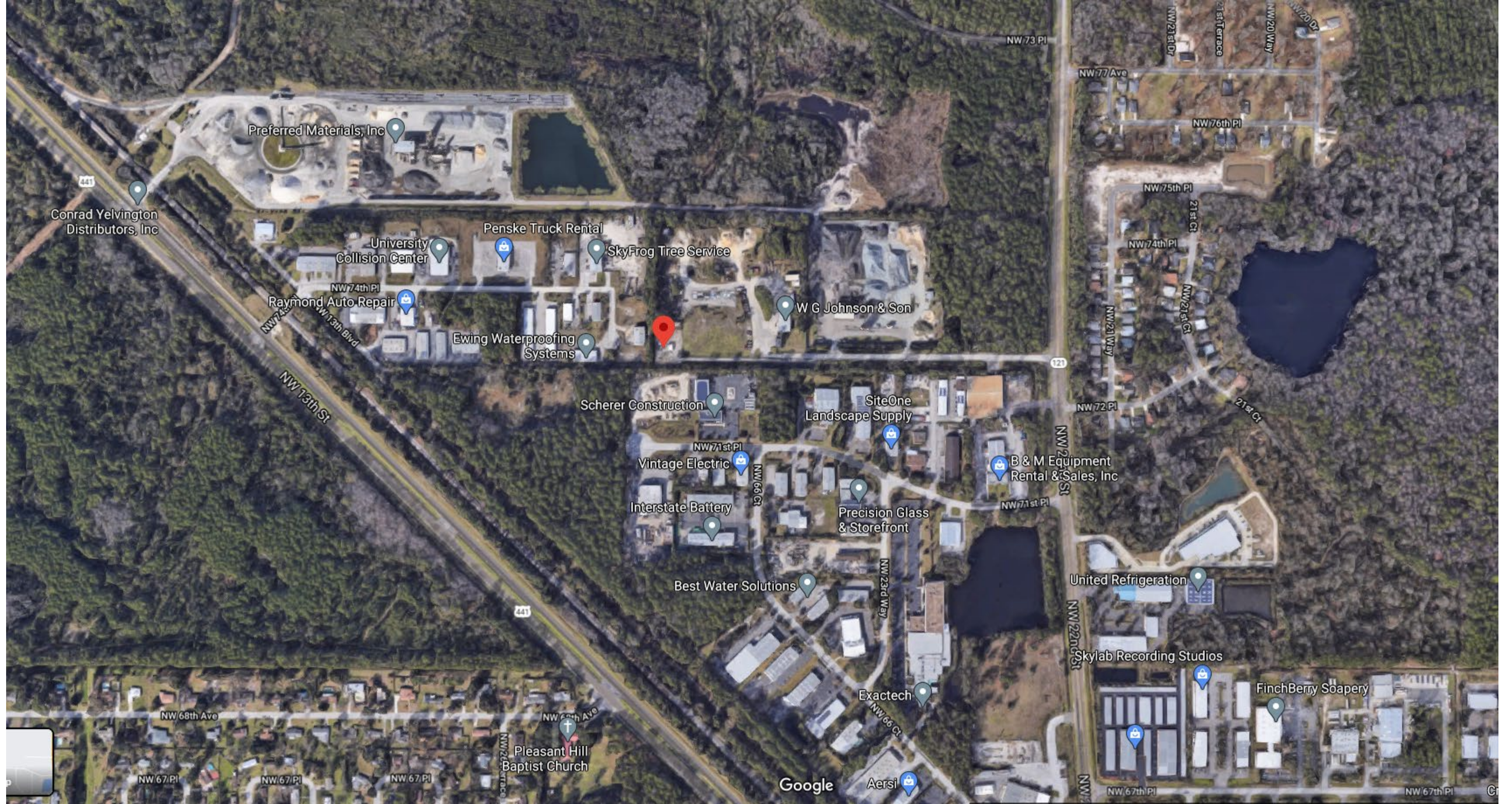
DIGITAL – NEIGHBORHOOD WORKSHOP

Recording: Recording of meeting was placed on City of Gainesville, web

- Introduction - WSD Engineering Inc - Experiences with generator installation for T-Mobile
- Discussion:
 - Explained importance of generator installation as backup power to telecommunications facility in time of emergency to have uninterrupted wireless service – 911 Emergency calls
 - Q &A Session:
 - Noise Levels
 - Spillage prevention
 - Commercial power lost
 - Automatic transfer switch
 - Coverage not impacted
 - Location within lease area
- Other:
 - Email for other concerns during appeal period: designs@wsdenginc.net
 - Neighborhood workshop presentation
 - Log in time for attendees

Neighborhood Workshop

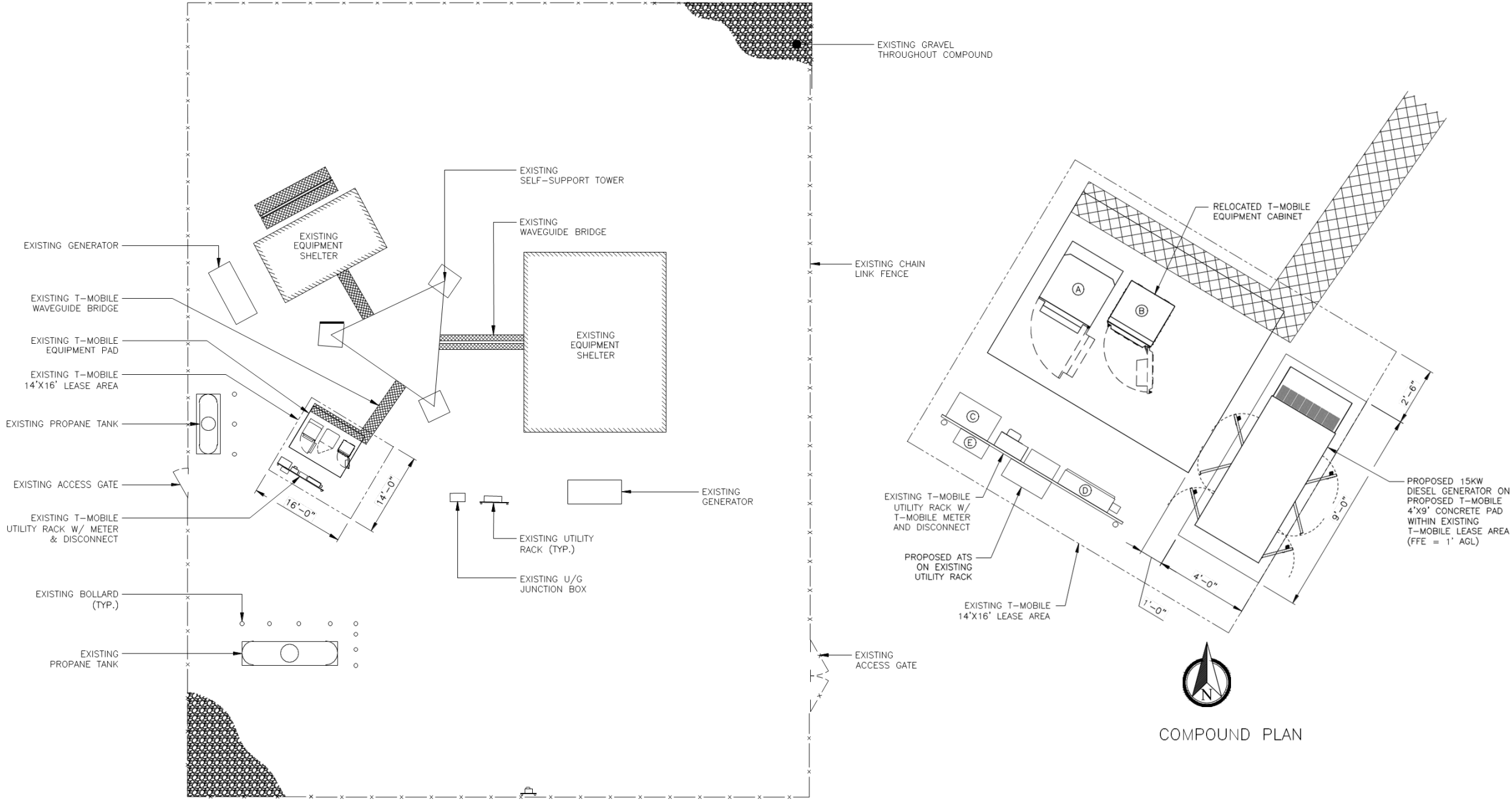
INSTALLATION OF 25KW DIESEL GENERATOR APPLICATION
AT THE EXISTING TELECOMMUNICATION FACILITY
WELLFIELD DISTRICT IN GAINESVILLE, FL



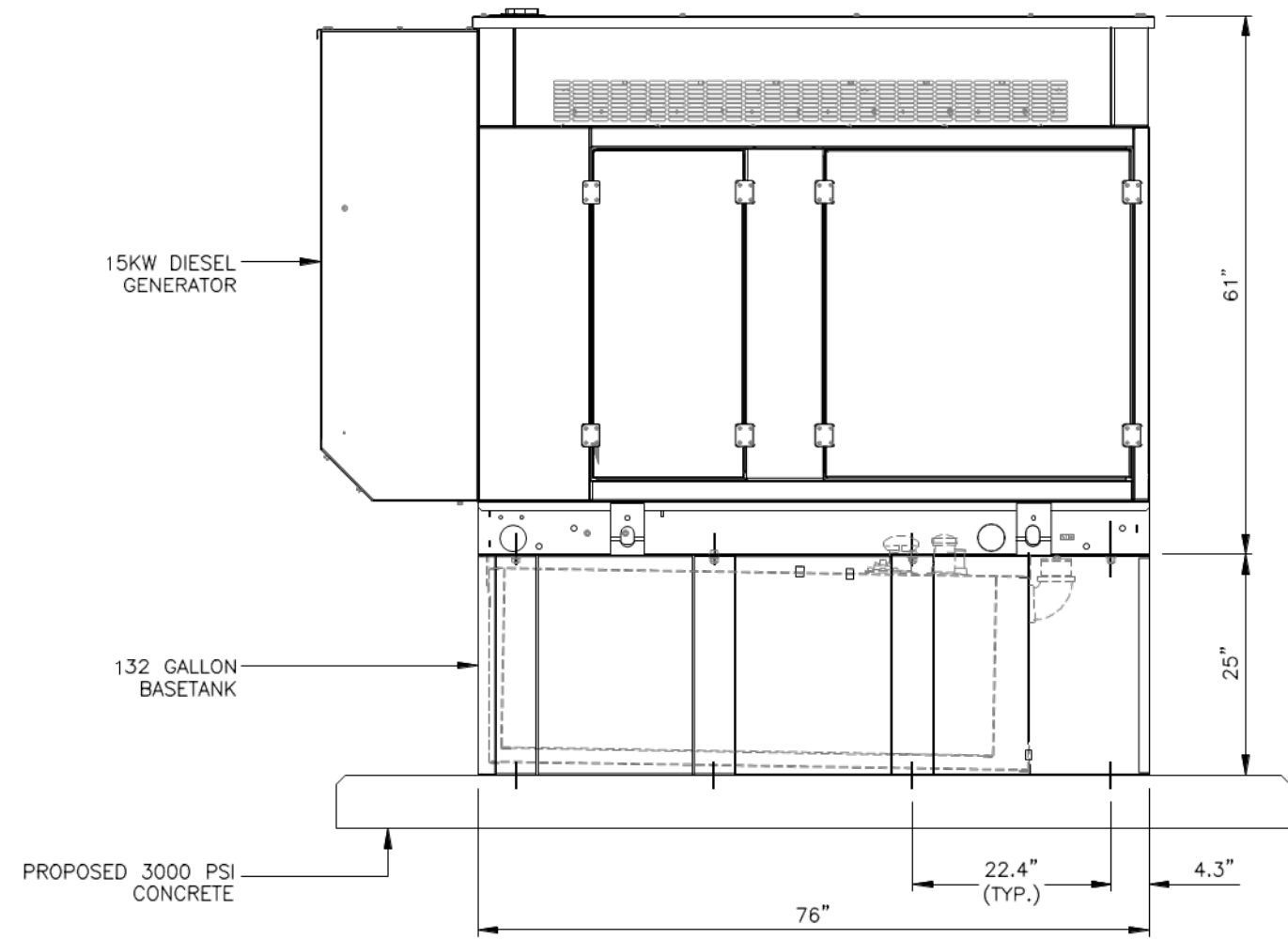
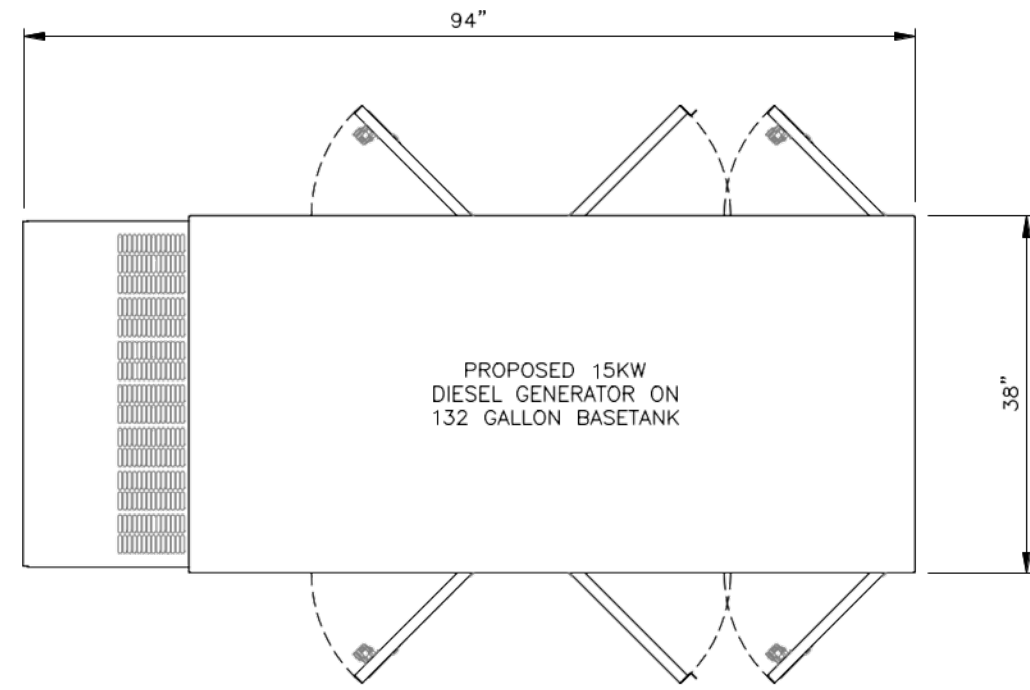
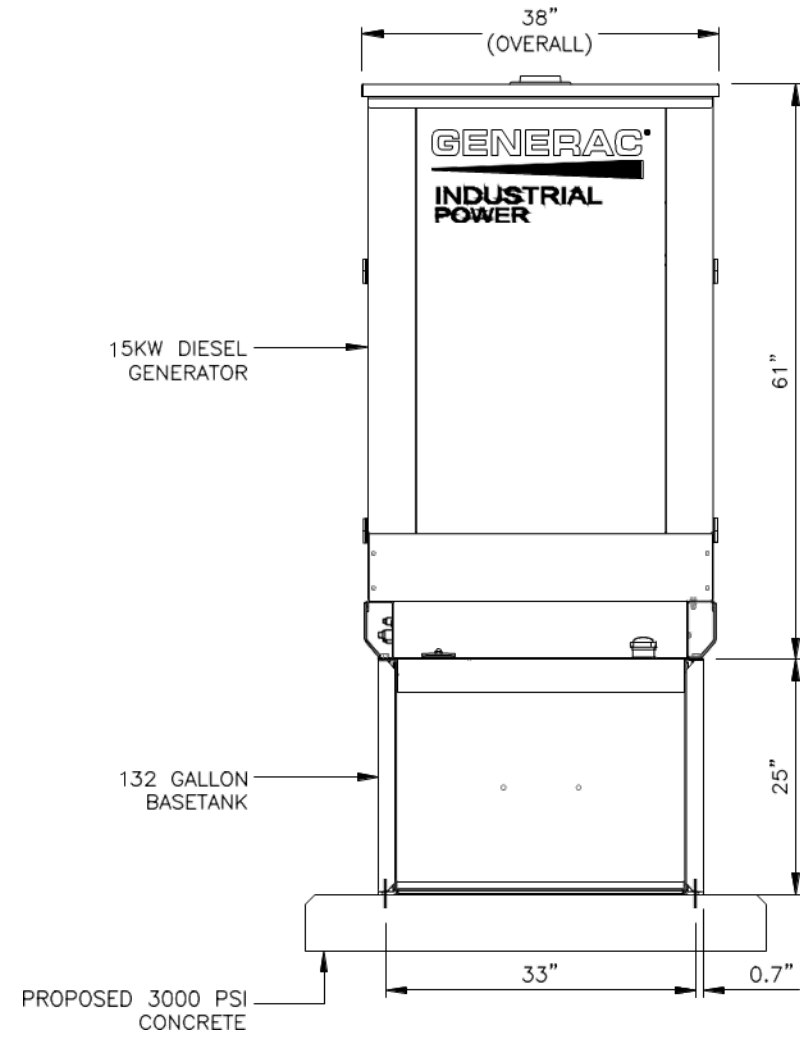


Existing Conditions

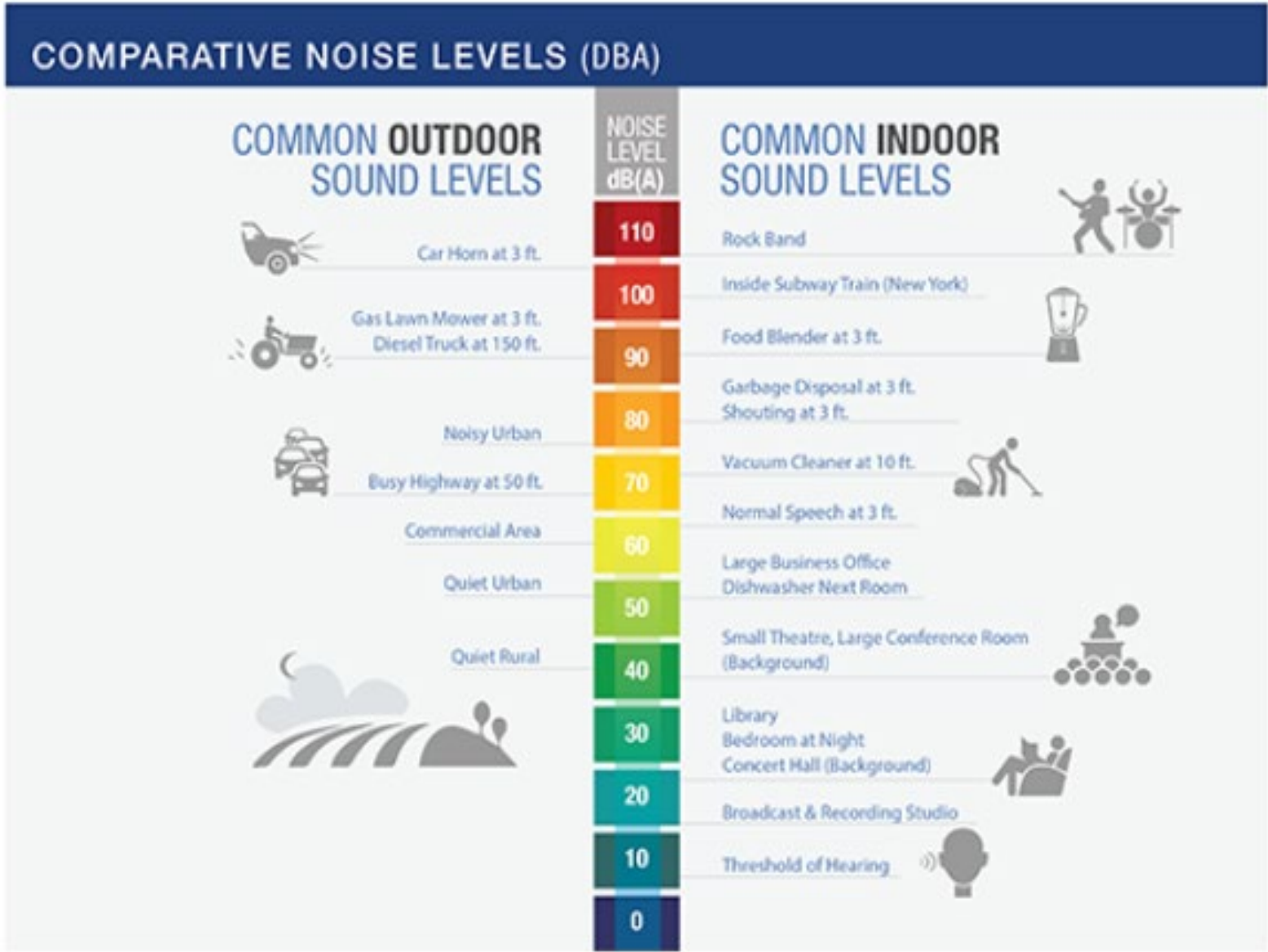
SITE LAYOUT



GENERATOR SPECIFICATIONS



NOISE LEVELS



Decibel Level Comparison Chart

Environmental Noise	dBA
Jet engine at 100'	140
Pain Begins	125
Pneumatic chipper at ear	120
Chain saw at 3'	110
Power mower	107
Subway train at 200'	95
Walkman on 5/10	94
Level at which sustained exposure may result in hearing loss	80-90
City Traffic	85
Telephone dial tone	80
Chamber music, in a small auditorium	75-85
Vacuum cleaner	75
Normal conversation	60-70
Business Office	60-65
Household refrigerator	55
Suburban area at night	40
Whisper	25
Quiet natural area with no wind	20
Threshold of hearing	0

Note: dBA = Decibels, A weighted



PUBLIC NOTICE

A Neighborhood Workshop will be held to discuss installation of 15kw Diesel generator application at the existing telecommunication facility in the Wellfield District in Gainesville, FL (Portion of Alachua County Tax Parcel 06013-005-021). The existing telecommunication facility is located at 2498 NW 73rd Place. The project intent is to install a diesel generator on an existing pad within the existing telecommunication facility.

This is not a public hearing. The purpose of this workshop is to inform the public about the nature of the proposal and seek their comments.

Time: 6:00 p.m. on Wednesday, December 2, 2020

Location: MS Teams Meeting – Link:

<https://teams.microsoft.com/l/channel/19%3aeeae088b45d3e49bcb123c9f5dd9e60d8%40thread.tacv2/General?groupId=9cce158e-b0bb-4232-91a2-1556961577aa&tenantId=d175e48d-3dd5-4e0f-86bb-8044bf9698d4>

TO RECEIVE AN ELECTRONIC COPY OF THIS LINK, SEND YOUR EMAIL REQUEST TO: design@wsdenginc.net

Contact: Jennifer Navarro Yhap, MBA

Phone Number: (619) 954-7999



RECORD OF PUBLIC MEETING

SUBJECT: CC-20-00111 Wellfield Special Use Permit
Neighborhood - Virtual Meeting 20201202

The record of this meeting comprises of an eighteen minute / forty seven second (18:47) video recording titled;

CC-20-00111 Wellfield Special Use Permit _ Neighborhood - Virtual Meeting 20201202

Meeting Attendance Log

Log In Name	Name	Position	User Action	Timestamp (EST)
WSD Design	Steven Lane	WSD Operations	Joined	12/2/2020, 5:42:14 PM
WSD Design	Steven Lane	WSD Operations	Left	12/2/2020, 5:49:28 PM
WSD Design	Steven Lane	WSD Operations	Joined	12/2/2020, 5:49:54 PM
Derek (Guest)	Derek Elswick	WSD Project Manager	Joined	12/2/2020, 5:42:15 PM
Derek (Guest)	Derek Elswick	WSD Project Manager	Left	12/2/2020, 7:05:40 PM
Malua Young	Malua Young	WSD Regional Director	Joined	12/2/2020, 5:42:25 PM
Jennifer Navarro	Jennifer Navarro	WSD Regional Director	Joined	12/2/2020, 5:46:08 PM
Jennifer Navarro	Jennifer Navarro	WSD Regional Director	Left	12/2/2020, 7:05:45 PM
Natalie Diaz	Natalie Diaz	WSD Project Manager	Joined	12/2/2020, 5:56:11 PM
Natalie Diaz	Natalie Diaz	WSD Project Manager	Left	12/2/2020, 6:23:36 PM
WSD Design	Steven Lane	WSD Operations	Session Ended	12/2/2020, 7:06:01 PM

- - - - - *Nothing Follows* - - - - -