



**Building Permit Application**  
 Howard County Maryland  
 Department of Inspections, Licenses and Permits  
 3430 Court House Drive  
 Permits: 410-313-2455  
 www.howardcountymd.gov

**DILP 2018 NOV 29 AM 11:5**  
 Date Received: \_\_\_\_\_  
 Permit No.: **B18004021**

Building Address: 8564 MISSION ROAD  
 City: SAVAGE State: MD Zip Code: 20794  
 Suite/Apt. # \_\_\_\_\_ SDP/WP/BA #: \_\_\_\_\_  
 Subdivision: \_\_\_\_\_  
 Lot: \_\_\_\_\_ Tax Map: \_\_\_\_\_ Parcel: \_\_\_\_\_

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Existing Use: CELL TOWER SITE  
 Proposed Use: CELL TOWER  
 Estimated Construction Cost: \$ 15,000.00

Description of Work: INSTALLATION OF 250 GALLON DIESEL GENERATOR WITHIN CELL TOWER COMPOUND FOR T-MOBILE. w/ tank 250 gallons

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Occupant/Tenant Name: T-MOBILE  
 Was tenant space previously occupied?  Yes  No  
 Contact Name: \_\_\_\_\_

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Address: 12050 BALTIMORE AVE  
 City: BELTSVILLE State: MD Zip Code: 20705  
 Phone: 240-264-8600 Fax: 240-264-8610  
 Email: \_\_\_\_\_

Property Owner's Name: SBA COMMUNICATIONS  
 Address: 8051 CONGRESS AVE  
 City: BOCA RATON State: FL Zip Code: 33487  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Email: \_\_\_\_\_

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Applicant's Name & Mailing Address, (If other than stated herein)  
 Applicant's Name: G.A. SMITH ELECTRIC, INC  
 Address: 195 CALVERT BEACH RD  
 City: SAINT LEONARD State: MD Zip Code: 20685  
 Phone: 410-586-0050 Fax: 410-586-0909  
 Email: admin@gasmithelectric.com

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Contractor Company: SBA NETWORK SERVICES  
 Contact Person: ERIC PAUGH  
 Address: 8051 CONGRESS AVE  
 City: BOCA RATON State: FL Zip Code: 33487  
 License No.: 02309849  
 Phone: 215-620-3764 Fax: \_\_\_\_\_  
 Email: epaugh@sbsasite.com

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Engineer/Architect Company: POD  
 Responsible Design Prof.: MARK PATTERSON  
 Address: 11490 BLUEGRASS PKWY  
 City: LOUISVILLE State: KY Zip Code: 40299  
 Phone: 502-437-5252 Fax: \_\_\_\_\_  
 Email: jwooten@podgrp.com

Commercial Building Characteristics	Residential Building Characteristics
Height:	<input type="checkbox"/> SF Dwelling <input type="checkbox"/> SF Townhouse
No. of stories:	<u>Depth</u> <u>Width</u>
Gross area, sq. ft./floor:	1 <sup>st</sup> floor:
Area of construction (sq. ft.): <u>40</u>	2 <sup>nd</sup> floor:
Use group:	Basement:
<b>Construction type:</b>	<input type="checkbox"/> Finished Basement
<input type="checkbox"/> Reinforced Concrete	<input type="checkbox"/> Unfinished Basement
<input checked="" type="checkbox"/> Structural Steel	<input type="checkbox"/> Crawl Space
<input type="checkbox"/> Masonry	<input type="checkbox"/> Slab on Grade
<input type="checkbox"/> Wood Frame	No. of Bedrooms:
<input type="checkbox"/> State Certified Modular	<u>Multi-family Dwelling</u>
	No. of efficiency units:
	No. of 1 BR units:
	No. of 2 BR units:
	No. of 3 BR units:
	Other Structure:
	Dimensions:
<input checked="" type="checkbox"/> Roadside Tree Project Permit	Footings:
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Roof:
Roadside Tree Project Permit # _____	<input type="checkbox"/> State Certified Modular
	<input type="checkbox"/> Manufactured Home

Utilities
Electric: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Gas: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Water Supply</b> - NONE
<input type="checkbox"/> Public
<input checked="" type="checkbox"/> Private
<b>Sewage Disposal</b> - NONE
<input type="checkbox"/> Public
<input checked="" type="checkbox"/> Private
<b>Heating System</b> - NONE
<input type="checkbox"/> Electric <input type="checkbox"/> Oil
<input type="checkbox"/> Natural Gas <input type="checkbox"/> Propane Gas
<input type="checkbox"/> Other:
<b>Sprinkler System:</b>
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Grading Permit Number:
Building Shell Permit Number:

THE UNDERSIGNED HEREBY CERTIFIES AND AGREES AS FOLLOWS: (1) THAT HE/SHE IS AUTHORIZED TO MAKE THIS APPLICATION; (2) THAT THE INFORMATION IS CORRECT; (3) THAT HE/SHE WILL COMPLY WITH ALL REGULATIONS OF HOWARD COUNTY WHICH ARE APPLICABLE THERETO; (4) THAT HE/SHE WILL PERFORM NO WORK ON THE ABOVE REFERENCED PROPERTY NOT SPECIFICALLY DESCRIBED IN THIS APPLICATION; (5) THAT HE/SHE GRANTS COUNTY OFFICIALS THE RIGHT TO ENTER ONTO THIS PROPERTY FOR THE PURPOSE OF INSPECTING THE WORK PERMITTED AND POSTING NOTICES.

George A Smith  
 Applicant's Signature  
 Print Name  
 11/27/2018  
 Date  
 george@gasmithelectric.com  
 Email Address  
 President - G A Smith Electric Inc  
 Title/Company

**RECEIVED**  
**NOV 29 2018**  
**LICENSES & PERMITS**  
**DIVISION**

Checks Payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY  
 \*\*PLEASE WRITE NEATLY & LEGIBLY\*\*  
 -FOR OFFICE USE ONLY-

AGENCY	DATE	SIGNATURE OF APPROVAL
State Highways		
Building Officials		
PSZA (Zoning)		
PSZA (Engineering)		
Health	<u>11/27/18</u>	<u>[Signature]</u>

Is Sediment Control approval required for issuance?  Yes  No  
 CONTINGENCY CONSTRUCTION START

DPZ SETBACK INFORMATION
Front:
Rear:
Side:
Side St.:
All minimum setbacks met? <input type="checkbox"/> Yes <input type="checkbox"/> No
Is Entrance Permit Required? <input type="checkbox"/> Yes <input type="checkbox"/> No
Historic District? <input type="checkbox"/> Yes <input type="checkbox"/> No
Lot Coverage for New Town Zone:
SDP/Red-line approval date:

Filing Fee	\$
Permit Fee	\$ <u>1000</u>
Tech Fee	\$ <u>1000</u>
Excise Tax	\$
PSFS	\$
Guaranty Fund	\$
Add'l per Fee	\$
Total Fees	\$ <u>110.00</u>
Sub-Total Paid	\$
Balance Due	\$
check	# <u>203200</u>

INTERSTATE 95

EX JUNK YARD

Approved for UPT  
B18004021  
RRT 12/13/18

12/12/18 - Field Inspection:

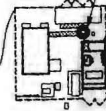
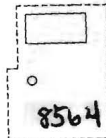
Spoke to Homeowner @  
8560 Mission Rd.

public water's sewer  
but there's also a  
well on the property.  
UPT will meet well set back  
requirements. (PP)

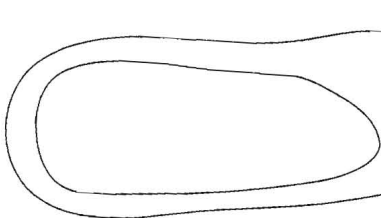
PRIVATE DRIVE

EX 130'-0" MONOPOLE

PROPOSED T-MOBILE  
10' x 20' LEASE AREA



UNPAVED ACCESS DRIVE



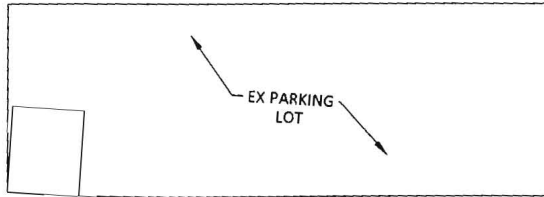
8560

PRIVATE DRIVE

(3)

EX RAILROAD  
TRACKS

EX POND



EX PARKING  
LOT

MISSION ROAD



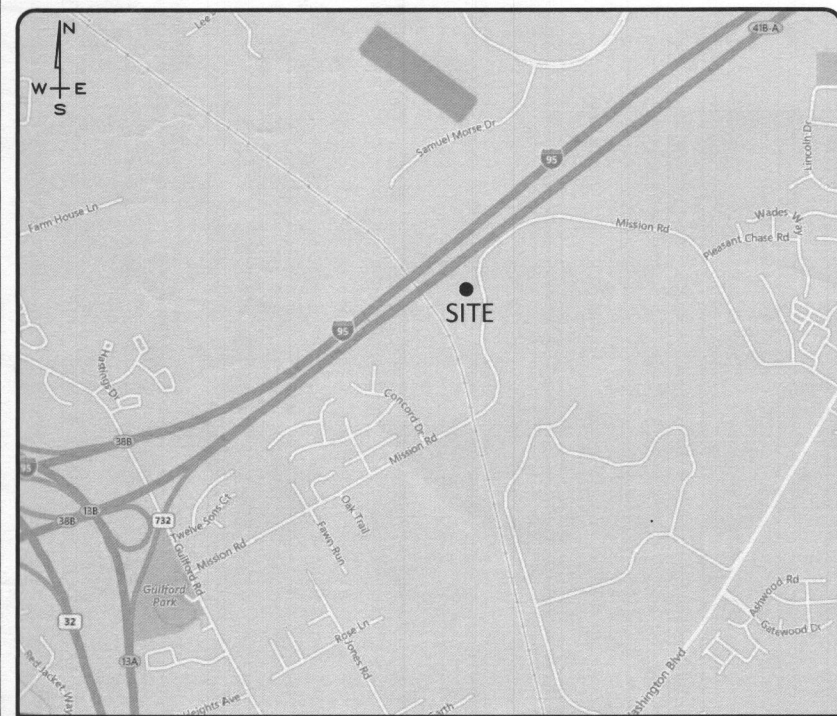
EX PARKING  
LOT

RECEIVED

NOV 29 2018

# T-Mobile

SBA SITE NAME: MISSION ROAD  
 SBA SITE NUMBER: MD46751-A  
 T-MOBILE SITE NAME: MISSION ROAD  
 T-MOBILE SITE NUMBER: 7BAN666A  
 SITE ADDRESS: 8564 MISSION ROAD SAVAGE, MD 20794  
 SITE TYPE: 130'-0" MONOPOLE  
 SITE CONFIGURATION: T-MOBILE NSD CMP2 INSTALLATION, DESIGN 4SEC-6797DB



VICINITY MAP

NOT TO SCALE

### DRIVE DIRECTIONS:

FROM T-MOBILE, 12050 BALTIMORE AVE, BELTSVILLE, MD 20705:

DEPART US-1 / BALTIMORE AVE TOWARD RITZ WAY	0.2 MI
TURN LEFT ONTO RITZ WAY	0.2 MI
TURN RIGHT ONTO VIRGINIA MANOR RD	0.4 MI
KEEP STRAIGHT ONTO KONTERRA DR	0.3 MI
TAKE RAMP LEFT FOR MD-200 W / MD-200 TOLL	0.8 MI
TAKE EXIT 19B, FOR I-95 N	9.5 MI
TAKE EXIT 41B-A FOR MD-175 EAST TOWARD JESSUP	0.7 MI
TURN RIGHT ONTO US-1 S / WASHINGTON BLVD	0.8 MI
TURN RIGHT ONTO MISSION RD	1.1 MI
ARRIVE AT SITE ON THE RIGHT	

DEPARTMENT	NAME / SIGNATURE	DATE
OPERATIONS		
RF ENGINEER		
ZONING ADMINISTRATOR		
SITE ACQUISITION		
T-MOBILE CONSTRUCTION MANAGER		
PROPERTY OWNER		
POWER APPROVAL		
TELCO APPROVAL		

### PROJECT INFORMATION:

COUNTY: HOWARD  
 TOWER OWNER: SBA STRUCTURES, LLC  
 8051 CONGRESS AVE.  
 BOCA RATON, FL 33487  
 STRUCTURE HEIGHT: 130'-0"  
 ELEVATION: 326'± AMSL  
 LATITUDE: 39.165064°N  
 LONGITUDE: -76.809453°W  
 ANTENNA C/L HEIGHT: 119' AGL  
 PROJECT DESIGN: T-MOBILE NEW CONSTRUCTION  
 4SEC-6797DB (AS IDENTIFIED ON RFDS)

### BUILDING CODES AND STANDARDS

CONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION FOR THE LOCATION.

CONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:

AMERICAN CONCRETE INSTITUTE 318  
 AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL OF STEEL CONSTRUCTION  
 TELECOMMUNICATIONS INDUSTRY ASSOCIATION TIA-222  
 STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWER AND SUPPORTING STRUCTURES TIA-601  
 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS TIA-607  
 INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS IEEE-81, IEEE 1100, IEEE C62.41  
 ANSI T1.311, FOR TELECOM - DC POWER SYSTEMS - TELECOM, ENVIRONMENTAL PROTECTION  
 2015 IBC OR LATEST AS ADOPTED BY JURISDICTION  
 2017 NEC OR LATEST AS ADOPTED BY JURISDICTION

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN.

HANDICAP REQUIREMENTS: THIS FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. ADA ACCESS REQUIREMENTS DO NOT APPLY.

OTHER REQUIREMENTS: THIS FACILITY HAS NO PLUMBING OR PARKING.

### SCOPE OF WORK:

- (8) PROPOSED ANTENNAS
- (4) PROPOSED RRU511
- (4) PROPOSED RRU5 4478
- (4) PROPOSED DIPLEXERS
- (3) PROPOSED 6X12 HYBRID CABLES
- (12) PROPOSED ANTENNA MOUNTS
- (1) PROPOSED EQUIPMENT PAD
- (1) PROPOSED METER TO BE SET WITH B.G.E.
- (1) PROPOSED DISCONNECT
- (1) PROPOSED 6102 EQUIPMENT CABINET
- (1) PROPOSED PPC CABINET
- (1) PROPOSED GENERATOR
- (6) PROPOSED GROUND BARS



Know what's below.  
Call before you dig.

### SHEET INDEX:

T-1 TITLE SHEET AND PROJECT INFORMATION

### NOTES

N-1 GENERAL NOTES

### CIVIL

- C-1 SITE PLAN
- C-2 COMPOUND PLAN
- C-3 EQUIPMENT PLAN
- C-4 EQUIPMENT DETAILS
- C-5 TOWER ELEVATION & ANTENNA DETAILS
- C-6 EQUIPMENT ELEVATION & DETAILS
- C-7 EQUIPMENT DETAILS

### ELECTRICAL

- E-1 ELECTRICAL PLAN & NOTES
- E-2 PANEL SCHEDULE & ONE-LINE DIAGRAM
- E-3 ELECTRICAL & GROUNDING DETAILS
- E-4 GROUNDING PLAN & NOTES
- E-5 GROUNDING DETAILS
- E-6 ELECTRICAL NOTES & RACK DETAILS

### GENERATOR SPECS

- SP-1 GENERATOR SPECS & INSTALLATION INSTRUCTIONS
- SP-2 GENERATOR SPECS & INSTALLATION INSTRUCTIONS
- SP-3 GENERATOR SPECS & INSTALLATION INSTRUCTIONS

### NOTES TO CONTRACTOR

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

THIS SEAL CERTIFIES ONLY THE CIVIL ENGINEERING DESIGN AND RELATED DETAILS SHOWN ON THESE PLANS. THIS SEAL DOES NOT CERTIFY ANY ARCHITECTURAL, ELECTRICAL, MECHANICAL, STRUCTURAL DESIGN AND RELATED DETAILS INCLUDED IN THESE PLANS.

FOR SITES WHERE A CRANE IS NECESSARY, THE CONTRACTOR SHALL CONFIRM AN UNOBSTRUCTED ROUTE FOR THE CRANE FROM A PUBLIC ROAD TO THE TOWER SITE PRIOR TO CONSTRUCTION. NO AERIAL OBSTRUCTIONS UNDER FIFTEEN FEET ABOVE GRADE, INCLUDING AERIAL UTILITY LINES, ARE ALLOWED ALONG SAID CRANE ROUTE.

NO WORK IS TO BE PERFORMED ON THIS SITE WITHOUT REVIEW OF THE APPROVED STRUCTURAL ANALYSIS. IF ANY DISCREPANCIES ARE FOUND THE GENERAL CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING. AT NO TIME WILL ANY ADDITIONAL ANTENNAS BE INSTALLED WITHOUT WRITTEN CONSENT FROM TOWER ENGINEER.

### CONTACT INFORMATION:

APPLICANT  
 T-MOBILE NORTHEAST LLC  
 12050 BALTIMORE AVENUE  
 BELTSVILLE, MD 20705  
 OFFICE: (240) 264-8600  
 FAX: (240) 264-8610

CIVIL ENGINEER  
 POD GROUP  
 11490 BLUEGRASS PKWY  
 LOUISVILLE, KY 40299  
 (502) 437-5252

POWER COMPANY  
 TBD



NOV 29 2018

LICENCES & PERMITS  
DIVISION

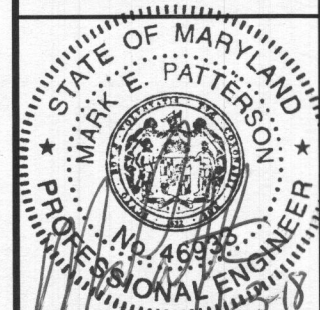
PLANS PREPARED FOR:  
**T-Mobile**  
 12050 BALTIMORE AVENUE  
 BELTSVILLE, MD 20705  
 OFFICE: (240) 264-8600  
 FAX: (240) 264-8610

PLANS PREPARED BY:  
**POD**  
 POWER OF DESIGN  
 11490 BLUEGRASS PKWY  
 LOUISVILLE, KY 40299  
 502-437-5252

MLA PARTNER:  
**SBA**

DRAWING NOTICE:  
 THESE DOCUMENTS ARE CONFIDENTIAL AND ARE THE SOLE PROPERTY OF T-MOBILE AND MAY NOT BE REPRODUCED, DISSEMINATED OR REDISTRIBUTED WITHOUT THE EXPRESS WRITTEN CONSENT OF T-MOBILE.

NSD  
 CONSTRUCTION DRAWINGS



REV.	DATE	DESCRIPTION
C	8.29.18	FOR APPROVAL
D	8.29.18	FOR APPROVAL
0	8.31.18	FOR CONSTRUCTION
1	9.12.18	FOR CONSTRUCTION

SITE INFORMATION:  
 7BAN666A  
 SBA TOWER MD46751-A  
 8564 MISSION RD  
 SAVAGE, MD 20794  
 HOWARD COUNTY

SBA SITE ID NUMBER:  
 MD46751-A

POD NUMBER: 18-24634

DRAWN BY: JMB  
 CHECKED BY: MEP  
 DATE: 6.22.18

SHEET TITLE:  
 TITLE SHEET AND  
 PROJECT  
 INFORMATION

SHEET NUMBER:  
**T-1**

**DIVISION 1 - GENERAL REQUIREMENTS  
PART 1 - GENERAL**

**1.1 INTENT**

- A. THESE SPECIFICATIONS AND CONSTRUCTION DRAWINGS ACCOMPANYING THEM DESCRIBE THE WORK TO BE DONE AND THE MATERIALS TO BE FURNISHED FOR THE CONSTRUCTION OF THIS PROJECT.
- B. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE FULLY EXPLANATORY AND SUPPLEMENTARY. HOWEVER, SHOULD ANYTHING BE SHOWN, INDICATED OR SPECIFIED ON ONE AND NOT THE OTHER, IT SHALL BE DONE THE SAME AS IF SHOWN, INDICATED OR SPECIFIED IN BOTH.
- C. THE INTENTION OF THE DOCUMENTS IS TO INCLUDE ALL LABOR AND MATERIALS REASONABLY NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK AS STIPULATED IN THE CONTRACT.
- D. THE PURPOSE OF THE SPECIFICATIONS IS TO INTERPRET THE INTENT OF THE DRAWINGS AND TO DESIGNATE THE METHOD OF THE PROCEDURE, TYPE AND QUALITY OF MATERIAL REQUIRED TO COMPLETE THE WORK.
- E. MINOR DEVIATIONS FROM THE DESIGN LAYOUT ARE ANTICIPATED AND SHALL BE CONSIDERED AS PART OF THE WORK. NO CHANGES THAT ALTER THE CHARACTER OF THE WORK WILL BE MADE OR PERMITTED BY THE OWNER WITHOUT ISSUING A CHANGE ORDER.

**1.2 CONFLICTS**

- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL MEASUREMENTS AT THE SITE BEFORE ORDERING ANY MATERIALS OR DOING ANY WORK. NO EXTRA CHARGE OR COMPENSATION SHALL BE ALLOWED DUE TO DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE CONSTRUCTION DRAWINGS. ANY SUCH DISCREPANCY IN DIMENSION WHICH MAY BE FOUND, SHALL BE SUBMITTED TO THE OWNER FOR CONSIDERATION BEFORE THE CONTRACTOR PROCEEDS WITH THE WORK IN THE AFFECTED AREAS.
- B. THE BIDDER, IF AWARDED THE CONTRACT, WILL NOT BE ALLOWED ANY EXTRA COMPENSATION BY REASON OF ANY MATTER OR THING CONCERNING THE WORK WHICH THE BIDDER MIGHT HAVE FULLY DISCOVERED PRIOR TO BIDDING.
- C. NO PLEA OF IGNORANCE OF CONDITIONS THAT EXIST, OR OF DIFFICULTIES OR CONDITIONS THAT MAY BE ENCOUNTERED OR OF ANY OTHER RELATED MATTER CONCERNING THE WORK TO BE PERFORMED IN THE EXECUTION OF THE WORK WILL BE ACCEPTED AS AN EXCUSE FOR ANY FAILURE OR OMISSION ON THE PART OF THE CONTRACTOR TO FULFILL EVERY DETAIL OF ALL THE REQUIREMENTS.

**1.3 CONTRACTS AND WARRANTIES**

- A. EACH CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE BUILDING PERMIT AT THE LOCAL JURISDICTION AS THE CONTRACTOR OF RECORD, AND PROVIDE LOCAL JURISDICTION WITH ALL PROOF REQUIRED TO OPERATE AS A CONTRACTOR IN THAT JURISDICTION. THE CONTRACTOR SHALL BE REIMBURSED ONLY THE AMOUNT OF ANY FEE PAID AS FOLLOWS:
  - 1. PLAN REVIEW FEE.
  - 2. BUILDING PERMIT FEE.
  - 3. CONNECTIONS AND INSPECTIONS FEE.
  - 4. DEVELOPMENT FEE.
- B. CONTRACTOR IS RESPONSIBLE FOR APPLICATION AND PAYMENT OF CONTRACTOR LICENSES AND BONDS.

**1.4 STORAGE**

ALL MATERIALS MUST BE STORED IN A LEVEL AND DRY FASHION IN A MANNER THAT DOES NOT NECESSARILY OBSTRUCT THE FLOW OF OTHER WORK. ANY STORAGE METHOD MUST MEET ALL RECOMMENDATIONS OF THE ASSOCIATED MANUFACTURER.

**1.5 CLEAN UP**

THE CONTRACTOR SHALL AT ALL TIMES, KEEP THE SITE FREE FROM ACCUMULATION OF WASTE, MATERIAL OR RUBBISH AT THE WORK SITE AND, AT COMPLETION OF THE WORK, SHALL REMOVE ALL RUBBISH FROM AND ABOUT THE BUILDING AREA, INCLUDING ALL TOOLS, EQUIPMENT, AND SURPLUS MATERIALS AND SHALL LEAVE THE WORK AREA CLEAN AND READY FOR USE.

**1.6 CHANGE ORDER PROCEDURE**

CHANGE ORDER MAY BE INITIATED BY THE OWNER AND/OR THE CONTRACTOR INVOLVED. THE CONTRACTOR, UPON VERBAL REQUEST FROM THE OWNER SHALL PREPARE A WRITTEN PROPOSAL DESCRIBING THE CHANGE IN WORK OR MATERIALS AND ANY CHANGES IN THE CONTRACT AMOUNT AND PRESENT TO THE OWNER FOR APPROVAL. SUBMIT REQUESTS OR SUBSTITUTIONS IN THE FORM AND IN ACCORDANCE WITH PROCEDURES REQUIRED FOR CHANGE ORDER PROPOSALS. ANY CHANGES IN SCOPE OF WORK OR MATERIALS WHICH ARE PERFORMED BY THE CONTRACTOR WITHOUT A WRITTEN CHANGE ORDER AS DESCRIBED AND APPROVED BY THE OWNER SHALL PLACE FULL RESPONSIBILITY OF THESE ACTIONS OF THE CONTRACTOR.

**1.7 RELATED DOCUMENTS AND COORDINATION**

GENERAL CARPENTRY, ELECTRICAL, AND ANTENNA DRAWINGS ARE INTERRELATED. IN PERFORMANCE OF THE WORK, THE CONTRACTOR MUST REFER TO ALL DRAWINGS. ALL COORDINATION TO BE THE RESPONSIBILITY OF THE CONTRACTOR.

**1.8 PRODUCTS AND SUBSTITUTIONS**

- A. SUBMIT 3 COPIES OF EACH REQUEST FOR SUBSTITUTION. IN EACH REQUEST IDENTIFY THE PRODUCT OR FABRICATION OR INSTALLATION METHOD TO BE REPLACED BY THE SUBSTITUTION. INCLUDE RELATED SPECIFICATION SECTION AND DRAWING NUMBERS AND COMPLETE DOCUMENTATION SHOWING COMPLIANCE WITH THE REQUIREMENTS FOR SUBSTITUTIONS.
- B. SUBMIT ALL NECESSARY PRODUCT DATA AND CUT SHEETS WHICH PROPERLY INDICATE AND DESCRIBE THE ITEMS, PRODUCTS, AND MATERIALS BEING INSTALLED. THE CONTRACTOR SHALL, IF DEEMED NECESSARY BY THE OWNER, SUBMIT ACTUAL SAMPLES TO THE OWNER FOR APPROVAL IN LIEU OF CUT SHEETS.

**1.9 QUALITY ASSURANCE**

REFERENCE SHEET T-1 FOR BUILDING CODES AND STANDARDS.

**1.10 ADMINISTRATION**

- A. PRIOR TO THE COMMENCEMENT OF ANY WORK, THE CONTRACTOR WILL ASSIGN A PROJECT MANAGER WHO WILL ACT AS A SINGLE POINT OF CONTACT FOR ALL PERSONNEL INVOLVED IN THIS PROJECT. THIS PROJECT MANAGER WILL DEVELOP A MASTER SCHEDULE FOR THE PROJECT WHICH WILL BE SUBMITTED TO THE OWNER PRIOR TO THE COMMENCEMENT OF ANY WORK.
- B. SUBMIT A BAR CHART TYPE PROGRESS REPORT NOT MORE THAN 3 DAYS AFTER THE DATE ESTABLISHED FOR COMMENCEMENT OF THE WORK ON THE SCHEDULE. INDICATE A TIME BAR FOR EACH MAJOR CATEGORY OR UNIT OF WORK TO BE PERFORMED AT SITE, PROPERTY SEQUENCED AND COORDINATED WITH OTHER ELEMENTS OF WORK. SHOW COMPLETION OF THE WORK SUFFICIENTLY IN ADVANCE OF THE DATE ESTABLISHED FOR SUBSTANTIAL COMPLETION OF THE WORK.
- C. PRIOR TO COMMENCING CONSTRUCTION, THE OWNER WILL SCHEDULE AN "ON-SITE" MEETING WITH ALL MAJOR PARTIES. THIS WOULD INCLUDE (THOUGH NOT LIMITED TO) THE OWNER, LOCAL TELEPHONE COMPANY, TOWER ERECTION FOREMAN (IF SUBCONTRACTED).
- D. CONTRACTOR SHALL BE EQUIPPED WITH SOME MEANS OF CONSTANT COMMUNICATIONS, SUCH AS A MOBILE PHONE OR PAGER. THIS EQUIPMENT WILL NOT BE SUPPLIED OR PAID FOR BY THE OWNER, NOR WILL CELLULAR SERVICE BE ARRANGED.
- E. DURING CONSTRUCTION, CONTRACTOR MUST ENSURE THAT EMPLOYEES AND SUBCONTRACTORS WEAR OSHA LEVEL D PERSONAL PROTECTIVE EQUIPMENT AT ALL TIMES. THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE OSHA REQUIREMENTS.
- F. CONTRACTOR SHALL PROVIDE DAILY UPDATES ON SITE PROGRESS, EITHER VERBAL OR WRITTEN.
- G. A COMPLETE INVENTORY OF CONSTRUCTION MATERIALS AND EQUIPMENT IS REQUIRED PRIOR TO THE START OF CONSTRUCTION.

**1.11 INSURANCE AND BONDS**

- A. CONTRACTOR SHALL, AT HIS OWN EXPENSE, CARRY AND MAINTAIN, FOR THE DURATION OF THE PROJECT, ALL INSURANCE AS REQUIRED AND SHALL NOT COMMENCE HIS WORK UNTIL HE HAS PRESENTED A CERTIFICATE OF INSURANCE STATING ALL COVERAGE TO THE CONTRACTOR WHO SHALL, IN TURN, FORWARD A COPY OF ALL CERTIFICATES TO THE OWNER.

**DIVISION 2 - SITE WORK  
PART 1 - GENERAL**

**1.1 WORK INCLUDED**

REFER TO THE SURVEY AND ARCHITECTURAL SITE PLAN FOR WORK INCLUDED.

**1.2 RELATED WORK**

- A. INSTALLATION OF ANTENNA SYSTEM
- B. ERECTION OF FENCE
- C. ACCESS ROAD
- D. PARKING AREA

**1.3 DESCRIPTIONS**

ACCESS ROAD, TURNAROUND AREAS, AND SITES ARE CONSTRUCTED TO PROVIDE A WELL DRAINED, EASILY MAINTAINED, EVEN SURFACE FOR MATERIAL AND EQUIPMENT DELIVERIES AND MAINTENANCE PERSONNEL ACCESS.

**1.4 REFERENCES**

- A. KDOT - KENTUCKY DEPARTMENT OF TRANSPORTATION, "STANDARD SPECIFICATIONS FOR CONSTRUCTION".
- B. ASTM - AMERICAN SOCIETY OF TESTING MATERIALS, LATEST EDITION.

**1.5 QUALITY ASSURANCES**

- A. CONTRACTOR SHALL APPLY SOIL STERILIZER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, AS NEEDED.
- B. VEGETATION AND LANDSCAPING, IF REQUIRED WITHIN THE CONTRACT, SHALL BE PLACED AND MAINTAINED AS RECOMMENDED BY NURSERY INDUSTRY STANDARDS.

**1.6 SEQUENCING**

- A. CONTRACTOR SHALL CONFIRM SURVEY STAKES AND SET ELEVATION STAKES PRIOR TO ANY CONSTRUCTION.
- B. THE COMPLETE ROAD AND SITE AREA SHALL BE CLEARED OF HEAVY GROWTH OF GRASS, TREES, SHRUBS AND TOPSOIL PRIOR TO FOUNDATION CONSTRUCTION OR PLACEMENT OF BACKFILL OR SUBBASE MATERIAL.
- C. CONSTRUCT TEMPORARY CONSTRUCTION ZONE ALONG ACCESS DRIVE.
- D. THE SITE AREA SHALL BE BROUGHT TO SUBBASE COURSE ELEVATION AND THE ACCESS ROAD TO BASE COURSE ELEVATION PRIOR TO FORMING FOUNDATIONS.
- E. CONTRACTOR SHALL APPLY SOIL HERBICIDE PRIOR TO PLACING BASE MATERIALS.
- F. IF REQUIRED, GRADE, SEED, FERTILIZE AND MULCH DISTURBED AREA IMMEDIATELY AFTER BRINGING THE SITE AND ACCESS ROAD TO BASE COURSE ELEVATION. WATER TO ENSURE GROWTH.
- G. REMOVE GRAVEL FROM TEMPORARY CONSTRUCTION ZONE.
- H. AFTER APPLICATIONS OF FINAL SURFACES, SOIL HERBICIDE SHALL BE APPLIED TO THE STONE SURFACES.

**1.7 SUBMITTALS**

- A. PRIOR TO CONSTRUCTION
  - 1. IF LANDSCAPING IS APPLICABLE TO THE CONTRACT, SUBMIT 2 COPIES OF THE LANDSCAPING PLAN UNDER NURSERY LETTERHEAD. IF A LANDSCAPE ALLOWANCE WAS INCLUDED IN THE CONTRACT, SUBMIT AN ITEMIZED LISTING OF PROPOSED COSTS UNDER NURSERY LETTERHEAD (REFER TO SITE PLAN FOR LANDSCAPING REQUIREMENT).
  - 2. SUBMIT FOR APPROVAL 1/2 CUBIC FEET OF THE PROPOSED SURFACE COURSE MATERIAL.
- B. FOLLOWING CONSTRUCTION
  - 1. MANUFACTURER'S DESCRIPTION OF PRODUCT AND WARRANTY STATEMENT ON SOIL HERBICIDE TREATMENT.
  - 2. MANUFACTURER'S DESCRIPTION OF PRODUCT ON GRASS SEED AND FERTILIZER, IF NEEDED.
  - 3. LANDSCAPING WARRANTY STATEMENT, IF REQUIRED.

**1.8 WARRANTY**

- A. IN ADDITION TO THE WARRANTY ON ALL CONSTRUCTION COVERED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL REPAIR ALL DAMAGE OF SURROUNDING PROPERTY CAUSED BY CONSTRUCTION.

**NOTE:**  
THESE NOTES ARE OF A GENERAL NATURE AND ARE NOT SITE-SPECIFIC. SOME NOTES MAY NOT APPLY TO THIS SITE. CROSS-REFERENCE NOTES WITH OTHER SHEETS AND T-MOBILE SCOPE OF WORK TO VERIFY WORK TO BE COMPLETED.

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PLANS PREPARED FOR:  
**T-Mobile**  
12050 BALTIMORE AVENUE  
BELTSVILLE, MD 20705  
OFFICE: (240) 264-8600  
FAX: (240) 264-8610

PLANS PREPARED BY:  
**POD**  
POWER OF DESIGN  
11490 BLUEGRASS PKWY  
LOUISVILLE, KY 40299  
502-437-5252

MLA PARTNER:  
**SBA**

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**NSD**  
CONSTRUCTION DRAWINGS



REV.	DATE	DESCRIPTION
C	8.29.18	FOR APPROVAL
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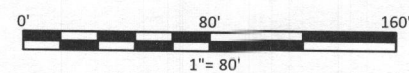
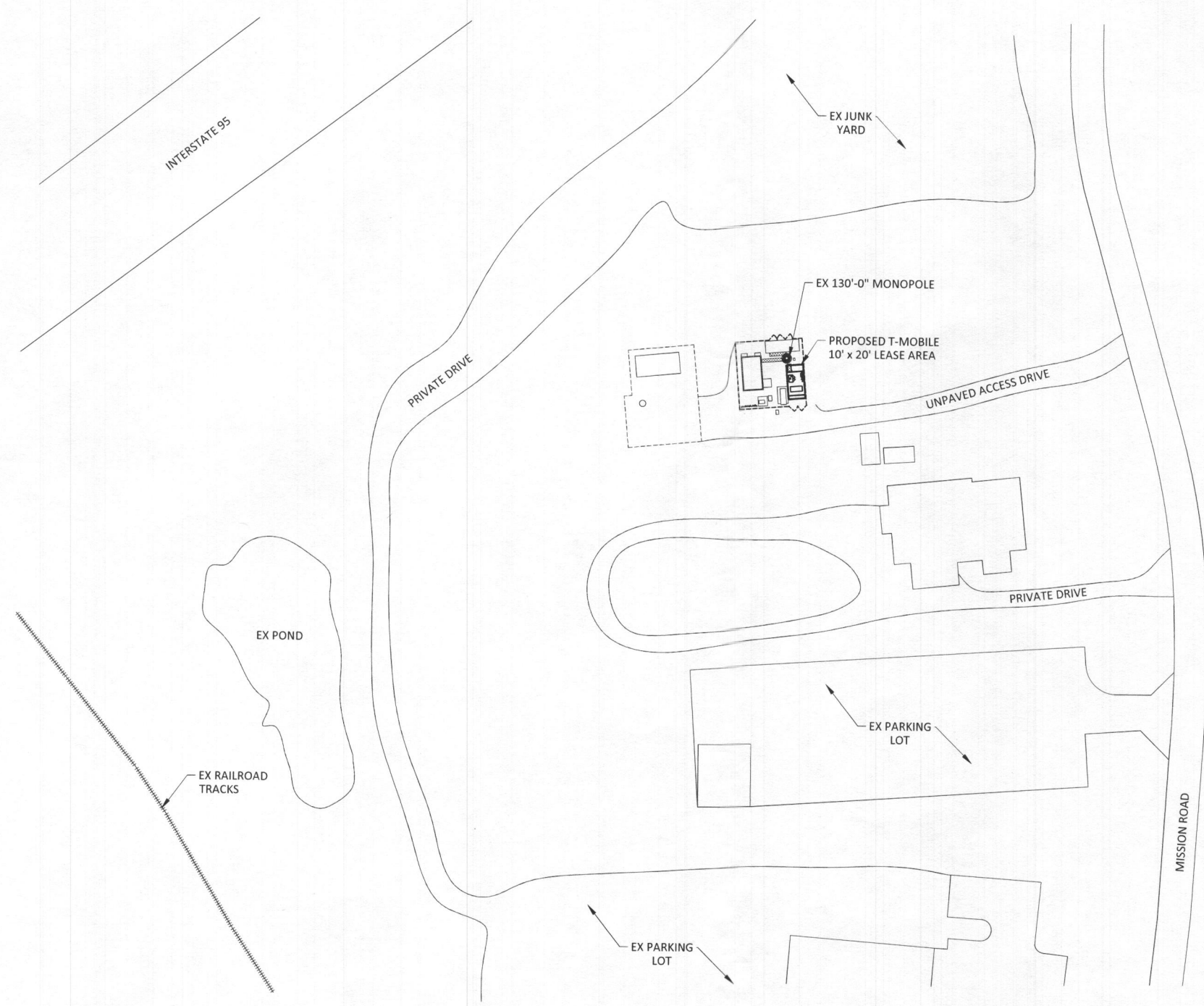
SITE INFORMATION:  
7BAN666A  
SBA TOWER MD46751-A  
8564 MISSION RD  
SAVAGE, MD 20794  
HOWARD COUNTY

SBA SITE ID NUMBER:  
MD46751-A

POD NUMBER: 18-24634  
DRAWN BY: JMB  
CHECKED BY: MEP  
DATE: 6.22.18

SHEET TITLE:  
**GENERAL NOTES**

SHEET NUMBER:  
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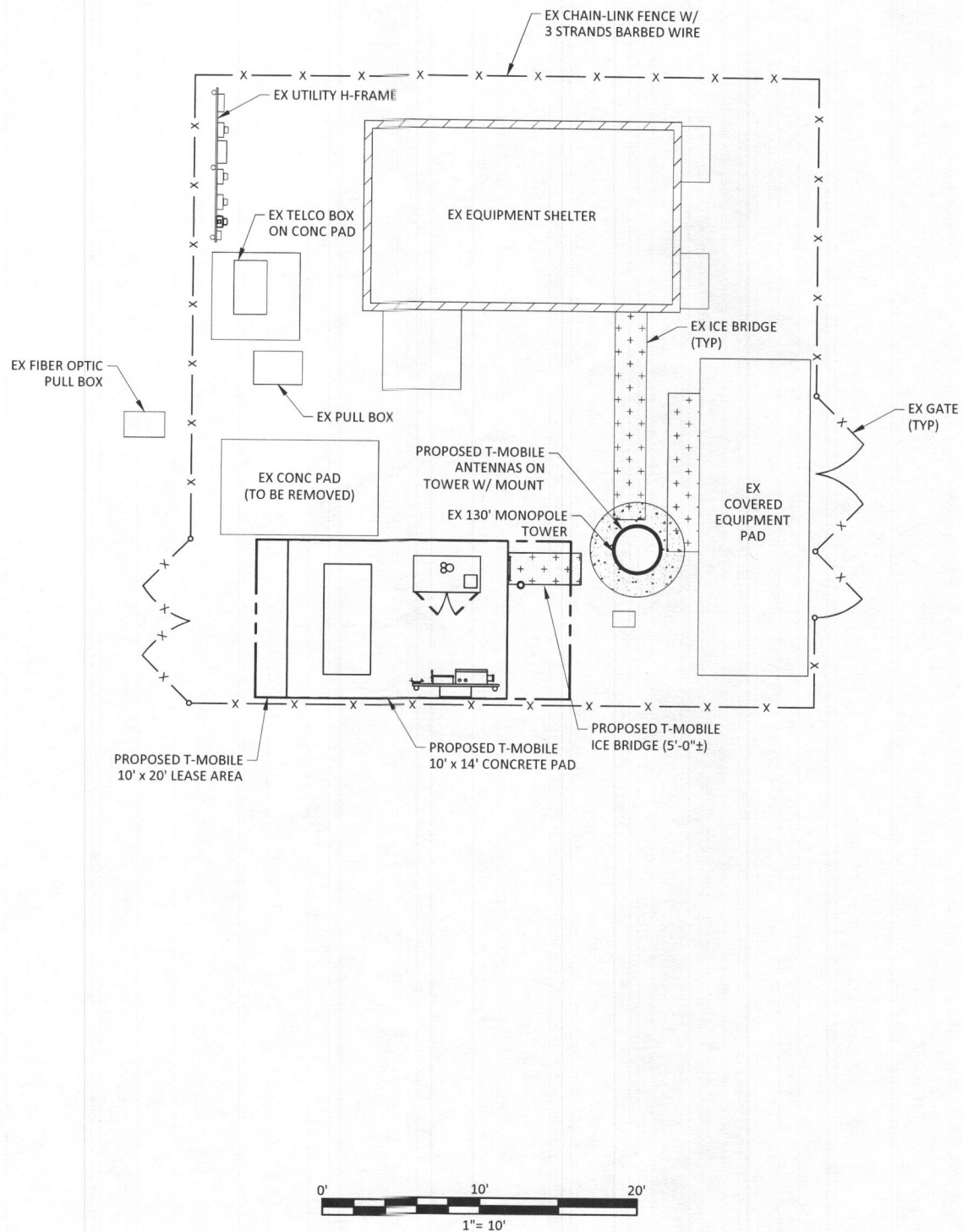
SHEET TITLE:  
**SITE PLAN**

SHEET NUMBER:  
**C-1**

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**GENERAL NOTES**

- ELEVATIONS ARE U.S.G.S. DATUM.
- INFORMATION SHOWN HAS BEEN PROVIDED BY CROWN CASTLE. POD HAS NOT PERFORMED A SITE VISIT.
- ALL SITE WORK SHALL BE CAREFULLY COORDINATED BY THE GENERAL CONTRACTOR WITH THE LOCAL UTILITY COMPANY, TELEPHONE COMPANY AND ANY OTHER UTILITY COMPANIES HAVING JURISDICTION OVER THIS LOCATION.
- DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED.
- DO NOT SCALE BUILDING DIMENSIONS FROM DRAWINGS.
- ANY DRAIN AND/OR FIELD TILE ENCOUNTERED DURING CONSTRUCTION SHALL BE RETURNED TO ITS ORIGINAL CONDITION PRIOR TO COMPLETION OF WORK. SIZE, LOCATION AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED AND PLACED ON AS-CONSTRUCTED DRAWINGS BY THE GENERAL CONTRACTOR AND ISSUED TO THE ENGINEER AT THE COMPLETION OF THE PROJECT.
- ALL EXISTING UTILITIES, FACILITIES, CONDITIONS AND THEIR DIMENSIONS SHOWN ON PLANS HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THE ENGINEER AND OWNER ASSUME NO RESPONSIBILITY WHATSOEVER AS TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE PLANS OR THE MANNER OF THEIR REMOVAL OR ADJUSTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL EXISTING UTILITIES AND FACILITIES PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY, DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTING EXISTING UTILITIES.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES, BOTH HORIZONTALLY AND VERTICALLY PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES OR DOUBTS AS TO THE INTERPRETATION OF PLANS SHOULD BE IMMEDIATELY REPORTED TO THE ENGINEER FOR RESOLUTION AND INSTRUCTION, AND NO FURTHER WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS CHECKED AND CORRECTED BY THE ENGINEER. FAILURE TO SECURE SUCH INSTRUCTION MEANS THE CONTRACTOR WILL HAVE WORKED AT HIS/HER OWN RISK AND EXPENSE. THE CONTRACTOR SHALL CALL LOCAL DIGGER HOT LINE FOR UTILITY LOCATIONS 3 WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
- ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS TO BE DISTURBED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISH ELEVATIONS PRIOR TO INSPECTION OF FINAL WORK.
- THE BUILDING DEPARTMENT ISSUING THE BUILDING PERMIT SHALL BE NOTIFIED AT LEAST 2 WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK OR AS STIPULATED BY THE CODE ENFORCEMENT OFFICIAL HAVING JURISDICTION.
- GRADING OF THE SITE WORK AREA IS TO BE SMOOTH AND CONTINUOUS IN SLOP AND IS TO FEATHER INTO EXISTING GRADES AT THE GRADING LIMITS. ALL TEMPORARY EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC., SHALL BE PROPERLY LAID BACK OR BRACED IN ACCORDANCE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.
- STRUCTURAL FILLS SUPPORTING PAVEMENTS SHALL BE COMPACTED TO 100% OF MAXIMUM STANDARD PROCTOR DRY DENSITY.
- NEW GRADES NOT IN BUILDING AND DRIVEWAY IMPROVEMENT AREA TO BE ACHIEVED BY FILLING WITH APPROVED CLEAN FILL AND COMPACTED TO 95% OF STANDARD PROCTOR DENSITY.
- ALL FILL SHALL BE PLACED IN UNIFORM LIFTS. THE LIFTS THICKNESS SHOULD NOT EXCEED THAT WHICH CAN BE PROPERLY COMPACTED THROUGHOUT ITS ENTIRE DEPTH WITH THE EQUIPMENT AVAILABLE.
- ANY FILLS PLACED ON EXISTING SLOPES THAT ARE STEEPED THAN 10 HORIZONTAL TO 1 VERTICAL, SHALL BE PROPERLY BENCHED INTO THE EXISTING SLOPE AS DIRECTED BY A GEOTECHNICAL ENGINEER.
- THE GRADES WITHIN THE FENCED-IN AREA ARE TO BE ACHIEVED BY COMPACTING CLEAN FILL TO A DENSITY OF 90% OF STANDARD PROCTOR COVERING THE AREA WITH 6 MIL. VISQUENE (1' OVERLAP AT SEAMS) FOR WEED SUPPRESSION, THEN ACHIEVING FINISHED GRADE BY ADDING 6" OF 3/4" CRUSHED STONE- NO FINES.
- CONTRACTOR SHALL CLEAN ENTIRE SITE AFTER CONSTRUCTION SUCH THAT NO PAPERS, TRASH, WEEDS, BRUSH OR ANY OTHER DEPOSITS WILL REMAIN. ALL MATERIALS COLLECTED DURING CLEANING OPERATIONS SHALL BE DISPOSED OF OFF-SITE BY THE GENERAL CONTRACTOR.
- ALL TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH THE IMPROVEMENTS SHALL BE PROTECTED BY THE GENERAL CONTRACTOR.
- DRIVEWAY CONSTRUCTION, GRADING AND DRAINAGE WORK SHALL CONFORM TO ALL STATE AND LOCAL COUNTY ORDINANCES.
- ALL SITE WORK SHALL BE CAREFULLY COORDINATED BY GENERAL CONTRACTOR WITH LOCAL UTILITY COMPANY, TELEPHONE COMPANY AND ANY OTHER UTILITY COMPANIES HAVING JURISDICTION OVER THIS LOCATION.
- FOR SITES WHERE A CRANE IS NECESSARY, THE CONTRACTOR SHALL CONFIRM AN UNOBSTRUCTED ROUTE FOR THE CRANE FROM A PUBLIC ROAD TO THE TOWER SITE PRIOR TO CONSTRUCTION. NO AERIAL OBSTRUCTIONS UNDER 15' ABOVE GRADE, INCLUDING AERIAL UTILITY LINES, ARE ALLOWED ALONG SAID CRANE ROUTE.



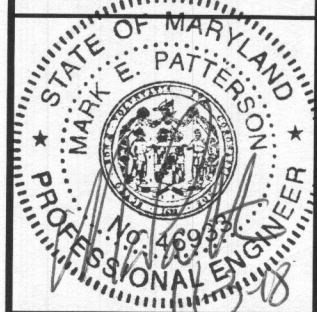
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**T-Mobile**  
 12050 BALTIMORE AVENUE  
 BELTSVILLE, MD 20705  
 OFFICE: (240) 264-8600  
 FAX: (240) 264-8610

PLANS PREPARED BY:  
**POD**  
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 11490 BLUEGRASS PKWY  
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MLA PARTNER:  
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 HOWARD COUNTY

SBA SITE ID NUMBER:  
**MD46751-A**

POD NUMBER: 18-24634  
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 CHECKED BY: MEP  
 DATE: 6.22.18

SHEET TITLE:  
**COMPOUND PLAN**

SHEET NUMBER:  
**C-2**

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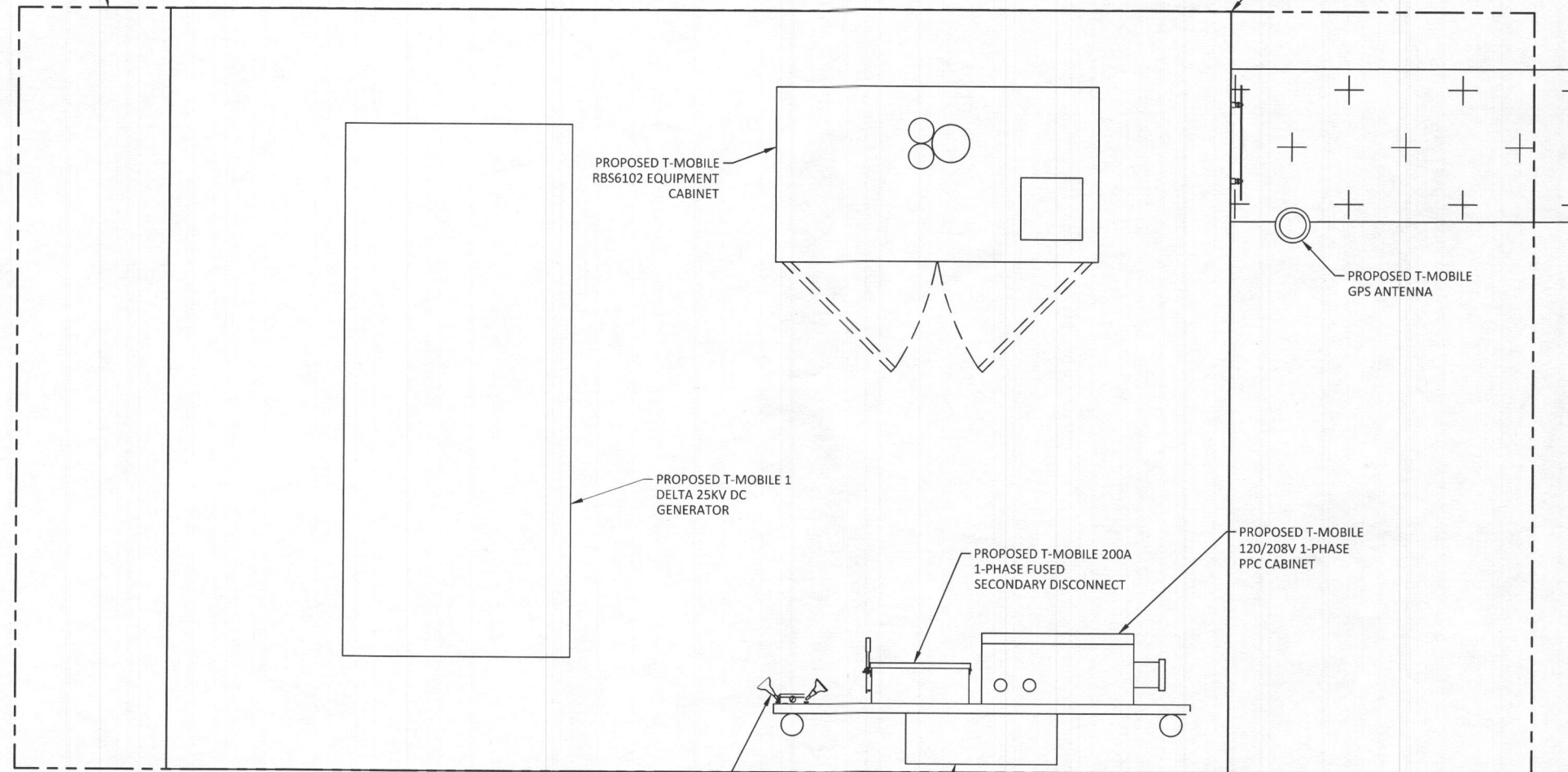
SBA SITE ID NUMBER:  
**MD46751-A**

POD NUMBER: 18-24634  
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SHEET TITLE:  
**EQUIPMENT PLAN**

SHEET NUMBER:  
**C-3**

PROPOSED T-MOBILE 10'-0" x 20'-0" LEASE AREA



PROPOSED T-MOBILE RBS6102 EQUIPMENT CABINET

PROPOSED 10'-0" x 14'-0" CONCRETE PAD

PROPOSED T-MOBILE GPS ANTENNA

PROPOSED T-MOBILE 1 DELTA 25KV DC GENERATOR

PROPOSED T-MOBILE 200A 1-PHASE FUSED SECONDARY DISCONNECT

PROPOSED T-MOBILE 120/208V 1-PHASE PPC CABINET

PROPOSED HOME DEPOT ADJUSTABLE FLOOD LIGHT DIRECTED TOWARD CABINET (SEA GULL LIGHTING MODEL #9607-12)

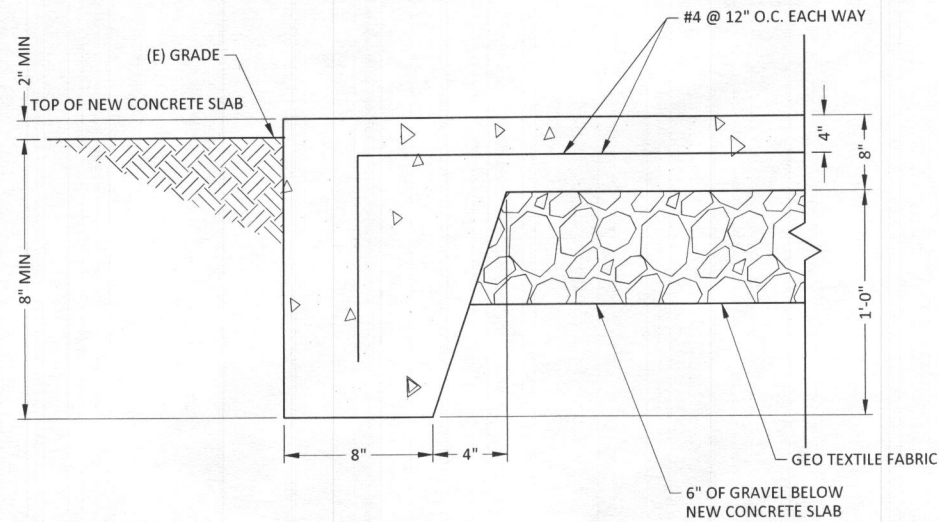
PROPOSED 8"x8"x24" GASKETED TROUGH WITH (2) 2" HOLES INTO PPC

**EQUIPMENT LAYOUT PLAN**  
 SCALE: NTS

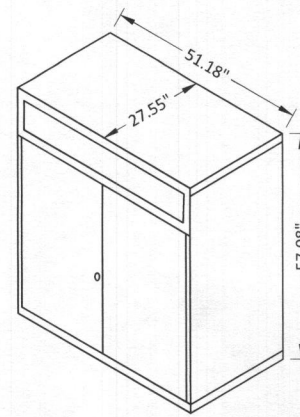
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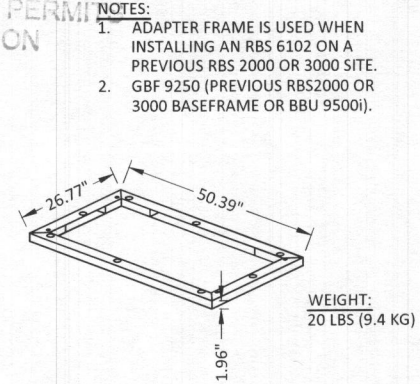
**CONCRETE PAD DETAIL**  
SCALE: NOT TO SCALE



**CLEARANCES:**  
 FRONT: 2'-3 1/2"  
 RIGHT SIDE: 36" FOR 135° DOOR SWING (IT IS RECOMMENDED TO HAVE ACCESS ENOUGH FOR CABINET TOP REMOVAL)  
 LEFT SIDE: 36" FOR 135° DOOR SWING  
 BACK: 7.9"  
 TOP: 19.7" (CABINET TOP REMOVAL)  
 WEIGHT: 1500 WITH BATTERIES  
 THE MINIMUM REQUIRED DOOR SWING IS 90° IS POSSIBLE, TO ALLOW FOR 135° DOOR SWING

**RBS 6102 DETAIL**  
SCALE: NOT TO SCALE

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**RBS 6102 ADAPTER FRAME**  
SCALE: NOT TO SCALE

- NOTES:**
1. ADAPTER FRAME IS USED WHEN INSTALLING AN RBS 6102 ON A PREVIOUS RBS 2000 OR 3000 SITE.
  2. GBF 9250 (PREVIOUS RBS2000 OR 3000 BASEFRAME OR BBU 9500i).

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PLANS PREPARED BY:

**POD**  
 POWER OF DESIGN

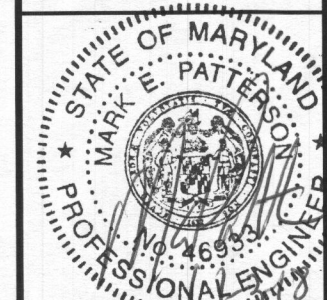
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MLA PARTNER:

**SBA**

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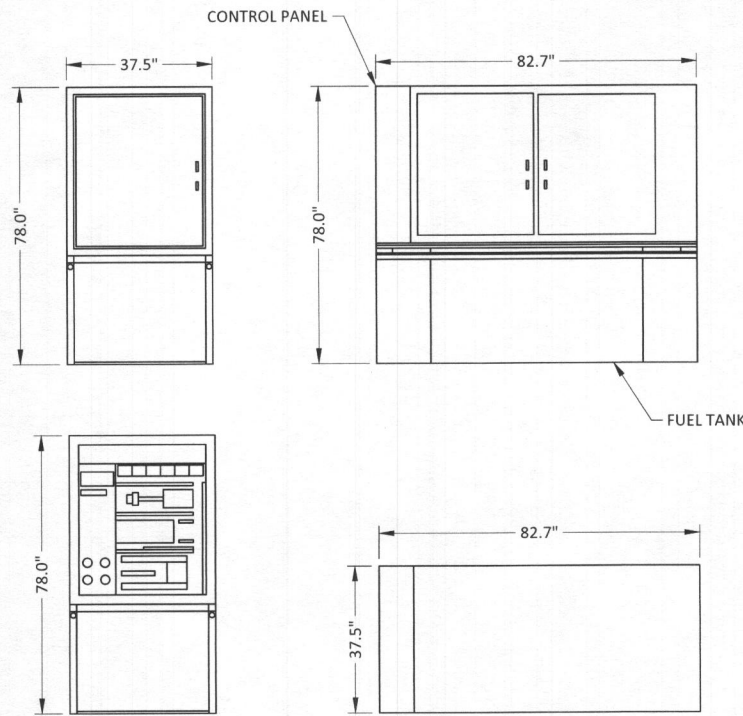
**SITE INFORMATION:**  
 7BAN666A  
 SBA TOWER MD46751-A  
 8564 MISSION RD  
 SAVAGE, MD 20794  
 HOWARD COUNTY

SBA SITE ID NUMBER:  
**MD46751-A**

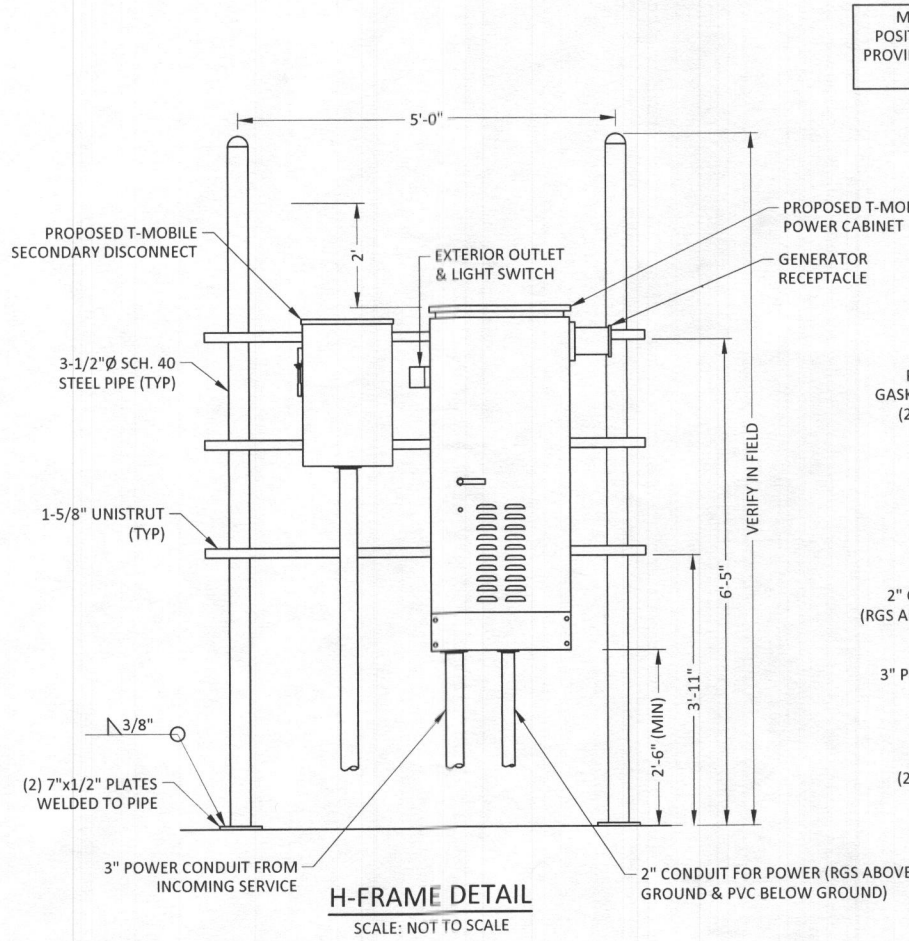
POD NUMBER: 18-24634  
 DRAWN BY: JMB  
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**EQUIPMENT DETAILS**

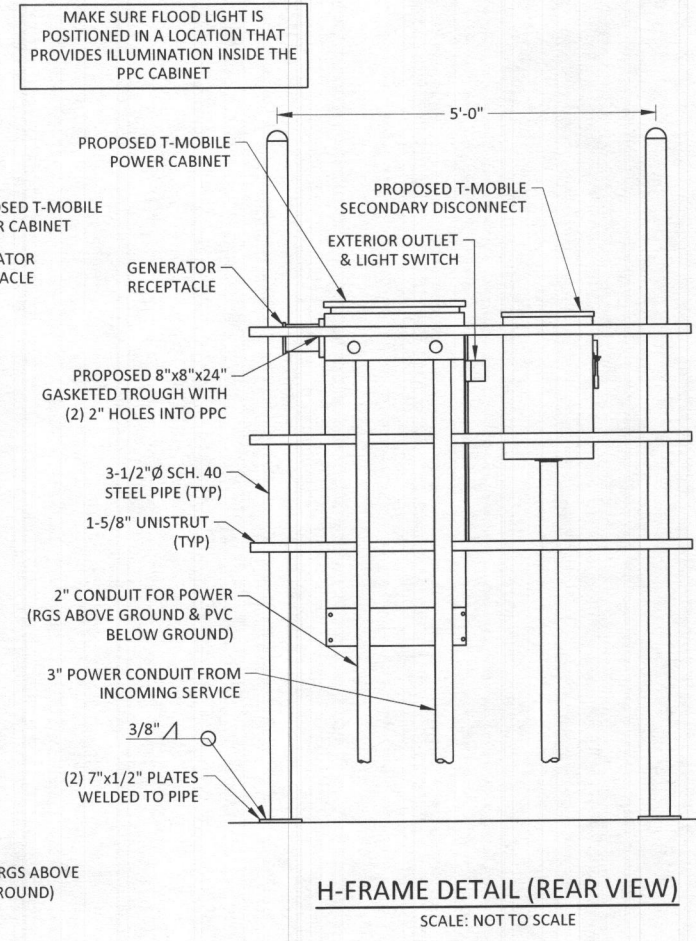
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**C-4**



**DELTA 25kW DC GENERATOR DETAIL**  
SCALE: NOT TO SCALE



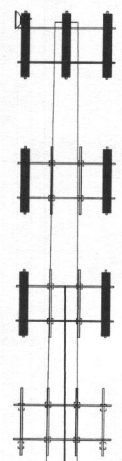
**H-FRAME DETAIL**  
SCALE: NOT TO SCALE



**H-FRAME DETAIL (REAR VIEW)**  
SCALE: NOT TO SCALE

MAKE SURE FLOOD LIGHT IS POSITIONED IN A LOCATION THAT PROVIDES ILLUMINATION INSIDE THE PPC CABINET

TOP OF TOWER  
130' AGL



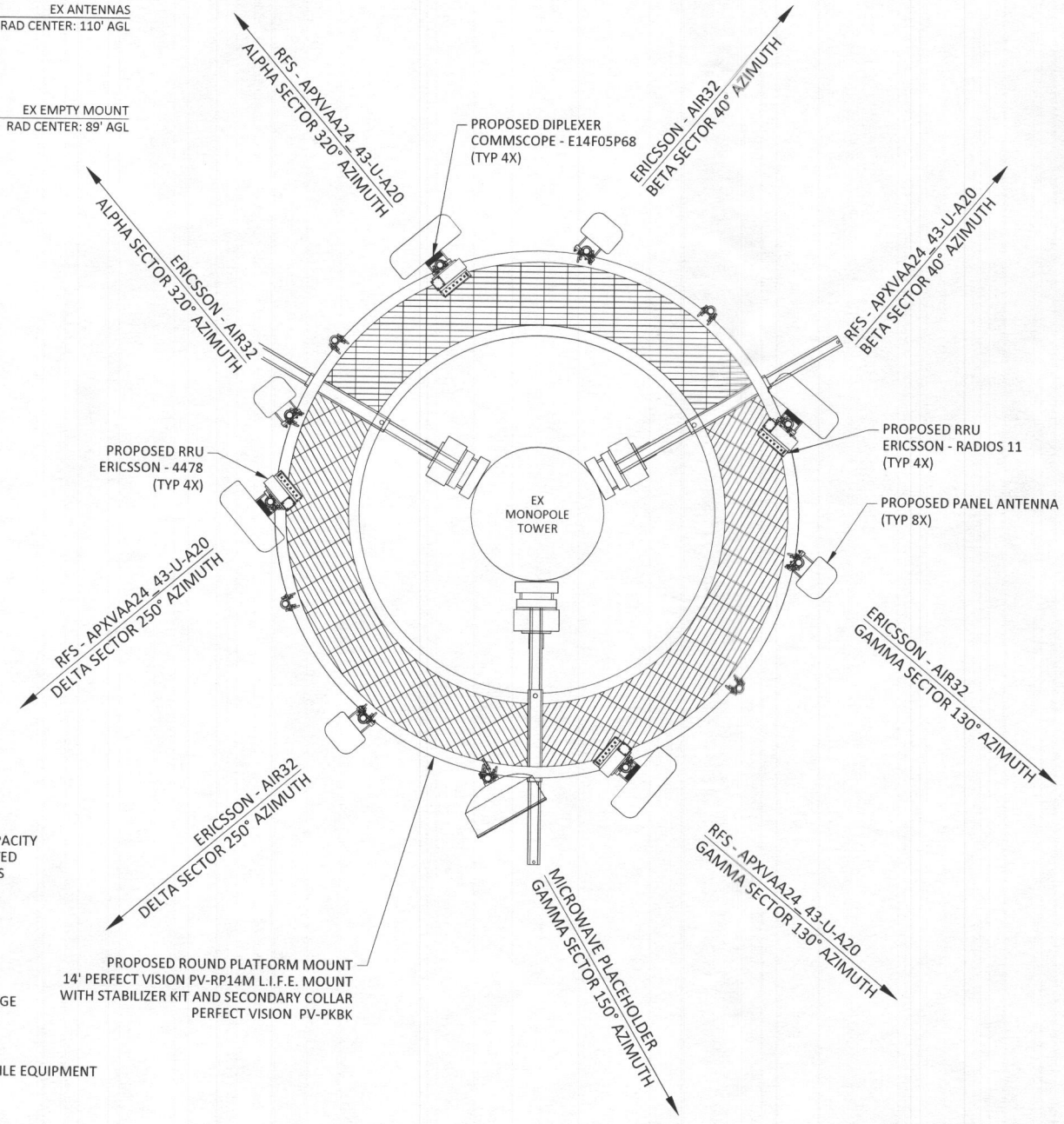
EX ANTENNAS  
RAD CENTER: 128' AGL

PROPOSED T-MOBILE ANTENNAS  
RAD CENTER: 119' AGL

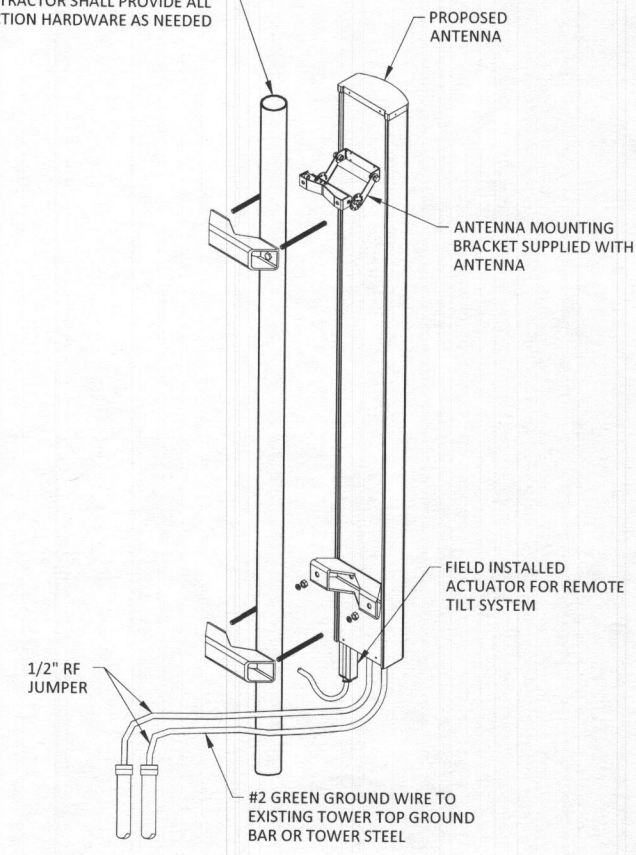
EX ANTENNAS  
RAD CENTER: 110' AGL

EX EMPTY MOUNT  
RAD CENTER: 89' AGL

PROPOSED ANTENNA AND COAX SCHEDULE							
SECTOR	RADIATION CENTER	AZIMUTH (0° = NORTH)	ANTENNA	MECHANICAL DOWNTILT	ELECTRICAL DOWNTILT	HYBRID & RF JUMPERS	HYBRID CABLES
A	119'	320°	ERICSSON AIR32	0°	3°	(4) FIBER JUMPER	PROPOSED (3) 6x12 HYBRID CABLES (150'-0"±)
A	119'	320°	RFS APXVAA24_43-U-A20	0°	3°	(4) COAX JUMPER	
B	119'	40°	ERICSSON AIR32	0°	3°	(4) FIBER JUMPER	
B	119'	40°	RFS APXVAA24_43-U-A20	0°	3°	(4) COAX JUMPER	
C	119'	130°	ERICSSON AIR32	0°	3°	(4) FIBER JUMPER	
C	119'	130°	RFS APXVAA24_43-U-A20	0°	3°	(4) COAX JUMPER	
D	119'	250°	ERICSSON AIR 32	0°	3°	(4) FIBER JUMPER	
D	119'	250°	RFS APXVAA24_43-U-A20	0°	3°	(4) COAX JUMPER	



2" SCH 40 PIPE x 96" FOR NEW ANTENNA AS REQUIRED. CONTRACTOR SHALL PROVIDE ALL CONNECTION HARDWARE AS NEEDED



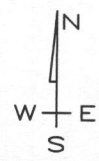
ANTENNA MOUNTING DETAIL  
NOT TO SCALE

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TOWER ELEVATION  
NOT TO SCALE



PROPOSED ANTENNA ORIENTATION DETAIL @ 119'-0"±  
NOT TO SCALE

REFER TO FINAL APPROVED T-MOBILE RFDS FOR ANTENNA DESIGN AND AZIMUTH

DIAGRAMMATIC ONLY. ANTENNA SUPPORT PER STRUCTURE MANUFACTURER AND STRUCTURAL ANALYSIS

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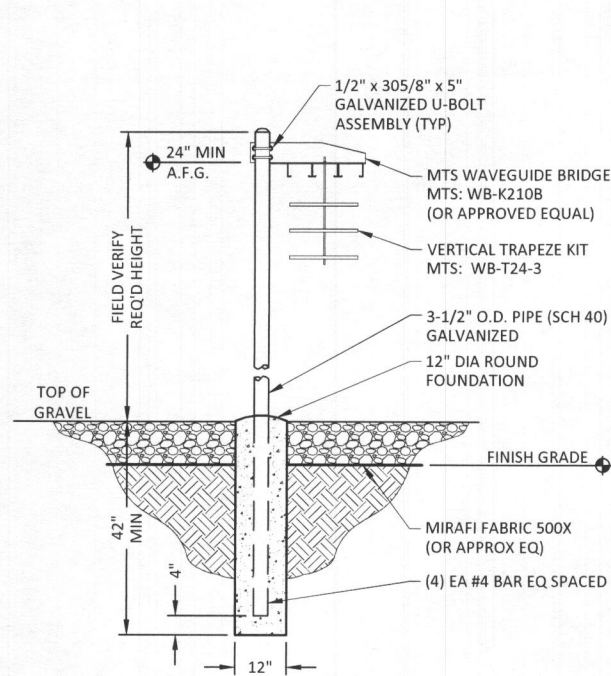
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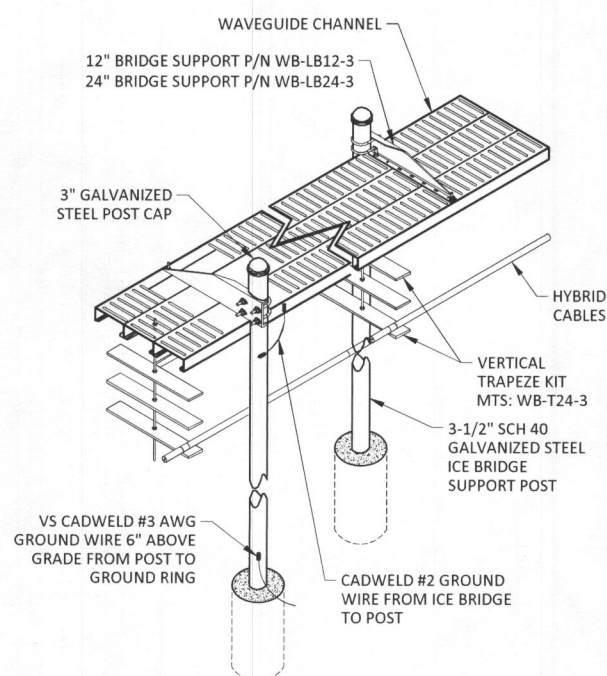
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SHEET TITLE:  
TOWER ELEVATION  
&  
ANTENNA DETAILS

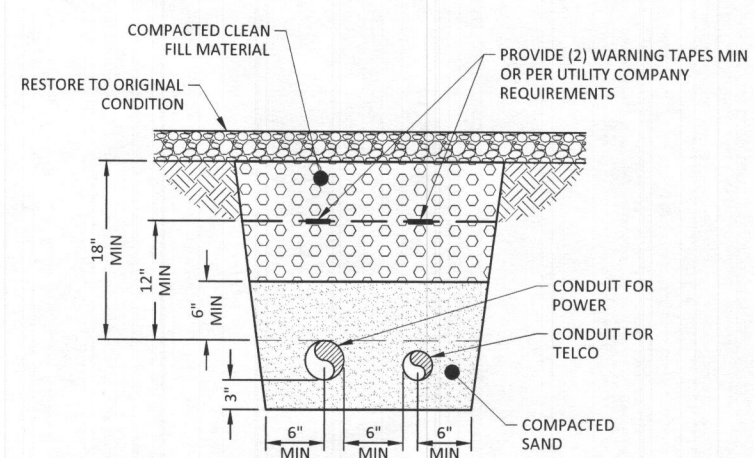
SHEET NUMBER:  
C-5



**ICE BRIDGE ELEVATION**  
SCALE: NOT TO SCALE



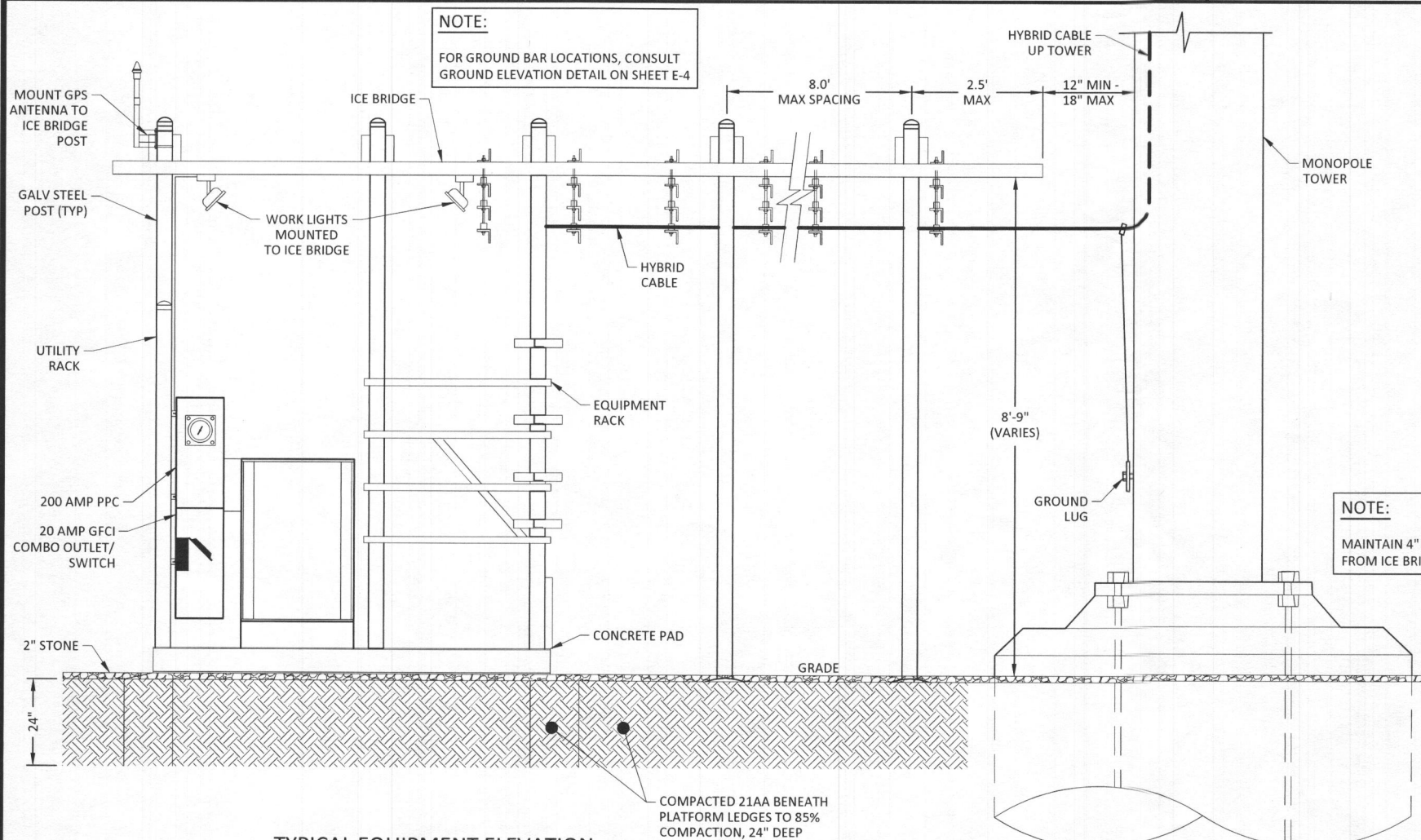
**ICE BRIDGE DETAIL**  
SCALE: NOT TO SCALE



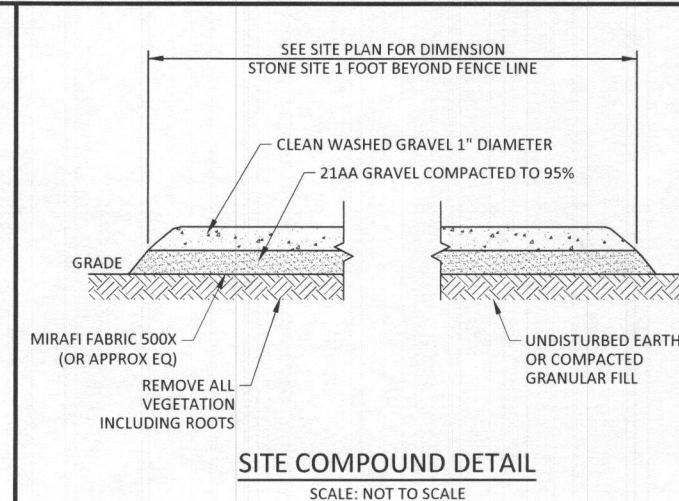
**TYPICAL ELECTRIC & TELCO TRENCH DETAIL**  
SCALE: NOT TO SCALE

**NOTES:**

ALL UTILITIES WITHIN THE TOWER COMPOUND SHALL BE INSTALLED IN CONDUIT. SCHEDULE 80 PVC SHALL BE USED FOR CONDUIT IN ALL VEHICULAR TRAFFIC AREAS. DIRECT-BURY UTILITIES MAY BE USED IN APPROVED AREAS OUTSIDE THE LIMITS OF THE TOWER COMPOUND.



**TYPICAL EQUIPMENT ELEVATION**  
SCALE: NOT TO SCALE



**SITE COMPOUND DETAIL**  
SCALE: NOT TO SCALE

**NOTE:**

MAINTAIN 4" MINIMUM VERTICAL SEPERATION FROM ICE BRIDGE TO TOP OF BTS UNIT

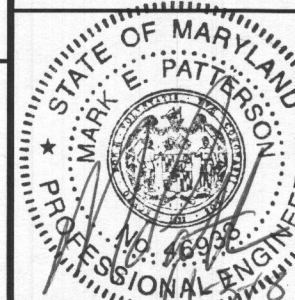
PLANS PREPARED FOR:  
**T-Mobile**  
12050 BALTIMORE AVENUE  
BELTSVILLE, MD 20705  
OFFICE: (240) 264-8600  
FAX: (240) 264-8610

PLANS PREPARED BY:  
**POD**  
POWER OF DESIGN  
11490 BLUEGRASS PKWY  
LOUISVILLE, KY 40299  
502-437-5252

MLA PARTNER:  
**SBA**

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CONSTRUCTION DRAWINGS



REV.	DATE	DESCRIPTION
C	8.29.18	FOR APPROVAL
D	8.29.18	FOR APPROVAL
0	8.31.18	FOR CONSTRUCTION
1	9.12.18	FOR CONSTRUCTION

SITE INFORMATION:  
7BAN666A  
SBA TOWER MD46751-A  
8564 MISSION RD  
SAVAGE, MD 20794  
HOWARD COUNTY

SBA SITE ID NUMBER:  
**MD46751-A**

POD NUMBER: 18-24634

DRAWN BY: JMB  
CHECKED BY: MEP  
DATE: 6.22.18

SHEET TITLE:  
**EQUIPMENT ELEVATION & DETAILS**

SHEET NUMBER:  
**C-6**

**RECEIVED**  
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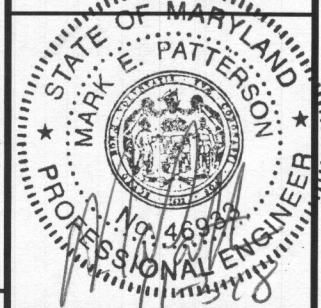
PLANS PREPARED FOR:  
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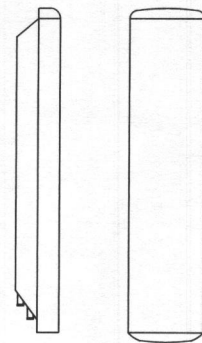
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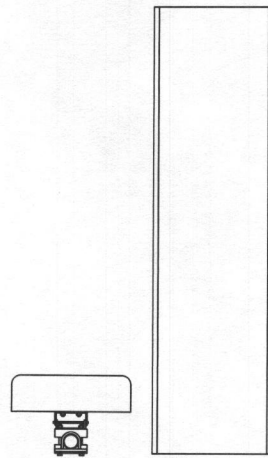
POD NUMBER: 18-24634  
 DRAWN BY: JMB  
 CHECKED BY: MEP  
 DATE: 6.22.18

SHEET TITLE:  
**EQUIPMENT DETAILS**

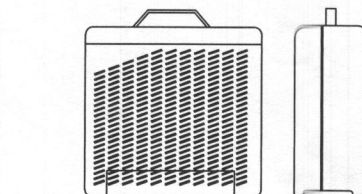
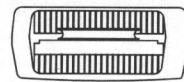
SHEET NUMBER:  
**C-7**



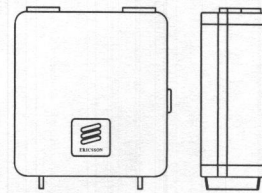
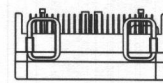
ERICSSON - AIR 32 B2A/B66AA  
 SIZE (HXWXD): 56.6x12.9x8.7 IN.  
 WEIGHT (WITHOUT MOUNTING HARDWARE): 132.2 LBS  
 RATED WIND VELOCITY: 150.0 MPH



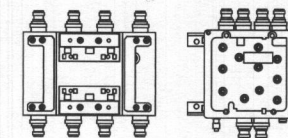
RFS - APXVAA24\_43-U-A20  
 SIZE (HXWXD): 95.9x24.0x8.5 IN.  
 WEIGHT (WITHOUT MOUNTING HARDWARE): 101.4 LBS  
 RATED WIND VELOCITY: 150.0 MPH



ERICSSON RRUS 11  
 SIZE (HXWXD): 19.7x17.0x7.2 IN.  
 WEIGHT (WITHOUT MOUNTING HARDWARE): 50.7 LBS



ERICSSON RRUS 4478  
 SIZE (HXWXD): 18.1x13.5x8.0 IN.  
 WEIGHT (WITHOUT MOUNTING HARDWARE): 56.2 LBS



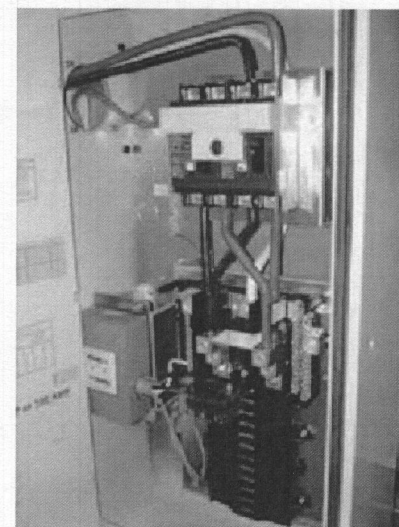
COMMSCOPE - CBC6AE7LQ-D5-43  
 SIZE (HXWXD): 7.0x10.5x7.12 IN.  
 WEIGHT (WITHOUT MOUNTING HARDWARE): 23.6 LBS

**EQUIPMENT DETAILS**  
 SCALE: NOT TO SCALE

GENERAL	
CONSTRUCTION	SINGLE LAYER ALUMINUM ENCLOSURE, TYPE 3R
DIMENSIONS (W x H x D)	20 x 40 x 10 INCH (508 x 1016 x 254 mm)
WEIGHT	APPROXIMATELY 75 LBS (WITHOUT PACKAGING)
FINISH	POLYESTER POWDER PAINT
DOOR LATCH	3-POINT LATCHING, PAD LOCKABLE
SAFETY	UL50 (CABINET) UL 891 DEAD FRONT SWITCHBOARD LISTED SUITABLE FOR USE AS SERVICE EQUIPMENT (N-G BONDING KIT INCLUDED)
ENVIRONMENT	
OPERATING TEMPERATURE	-40°C TO +46°C (-40°F TO 115°F)
HUMIDITY (RELATIVE)	95%, NON-CONDENSING (MAX)
PROTECTION CLASS	TYPE 3R
AC SECTION	
VOLTAGE	2240/120 SINGLE PHASE (3 WIRE + GROUND)
CURRENT	200A
AIC RATING	UTILITY 65,000 AMPS, PANLOC 10,000 AMPS GENERATOR INTERFACE: PANLOC™ (LEFT MOUNT) SERVICE DISCONNECT: SQUARE D 200 AMP MANUAL TRANSFER SWITCH
OTHER FEATURES	
	LOAD CENTER: SQUARE D 200 AMP, QO SERIES, 24 POSITION SURGE PROTECTION DEVICE (SPD) - 1 EA. AC DATA 2080 SQUARE D 30 AMP, 2-POLE BREAKER FOR SPD GROUND BAR SILKSCREENED DEAD-FRONT CAPTIVE DEAD-FRONT FASTENERS



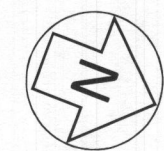
**POWER PEDESTAL CABINET**  
 (200A POWER TRANSFER CABINET W/O TELCO)  
 SCALE: NOT TO SCALE



**LOAD CENTER**  
 SCALE: NOT TO SCALE

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**NOTE:**  
BALTIMORE GAS & ELECTRIC WILL REQUIRE WORK WITH TO COMPLETE METER INSTALLATION  
WO# 14906843



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MLA PARTNER:  
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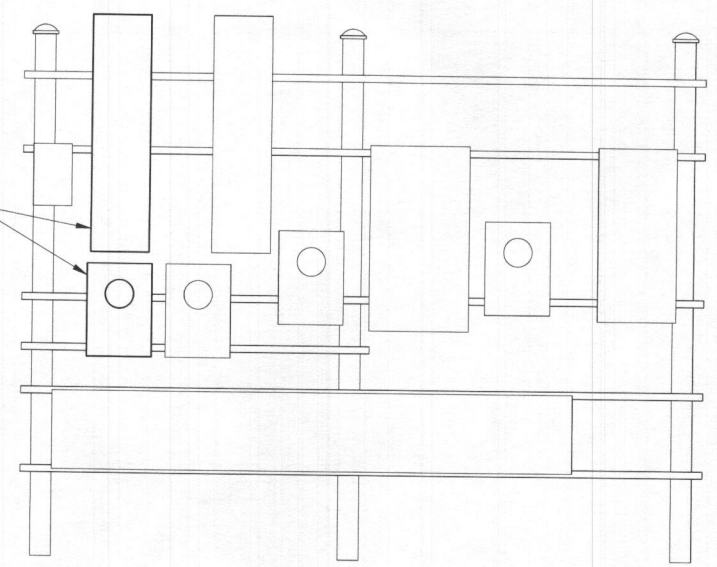
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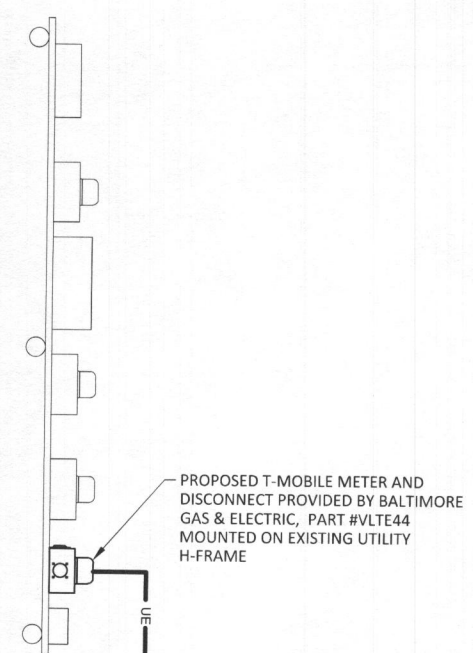
SHEET TITLE:  
**ELECTRICAL  
PLANS &  
NOTES**

SHEET NUMBER:  
**E-1**

PROPOSED T-MOBILE METER AND DISCONNECT PROVIDED BY BALTIMORE GAS & ELECTRIC, PART #VLTE44 MOUNTED ON EXISTING UTILITY H-FRAME

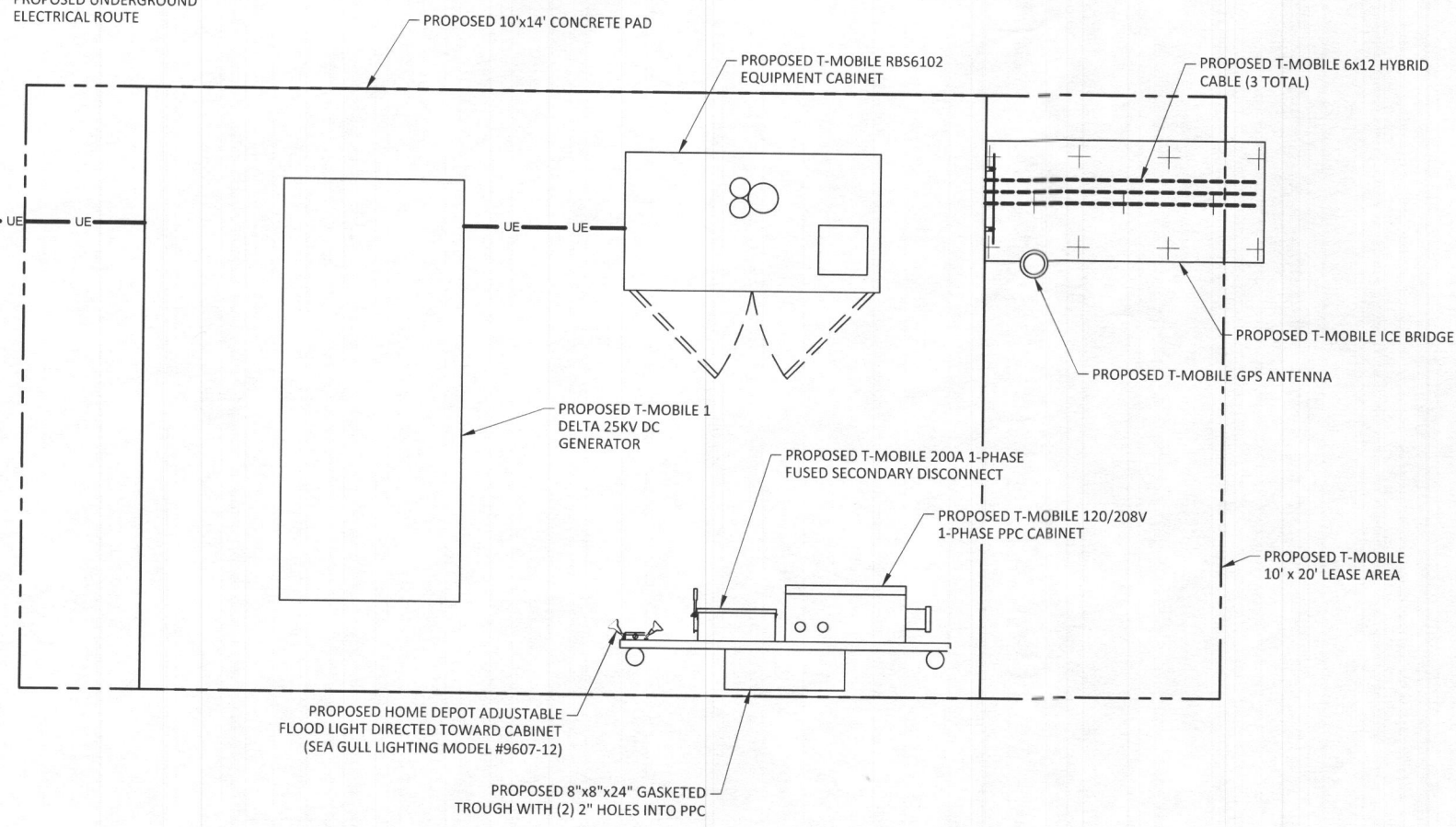


**UTILITY RACK**  
SCALE: NTS



PROPOSED T-MOBILE METER AND DISCONNECT PROVIDED BY BALTIMORE GAS & ELECTRIC, PART #VLTE44 MOUNTED ON EXISTING UTILITY H-FRAME

PROPOSED UNDERGROUND ELECTRICAL ROUTE



PROPOSED 10'x14' CONCRETE PAD

PROPOSED T-MOBILE RBS6102 EQUIPMENT CABINET

PROPOSED T-MOBILE 6x12 HYBRID CABLE (3 TOTAL)

PROPOSED T-MOBILE 1 DELTA 25KV DC GENERATOR

PROPOSED T-MOBILE 200A 1-PHASE FUSED SECONDARY DISCONNECT

PROPOSED T-MOBILE 120/208V 1-PHASE PPC CABINET

PROPOSED T-MOBILE ICE BRIDGE

PROPOSED T-MOBILE GPS ANTENNA

PROPOSED T-MOBILE 10' x 20' LEASE AREA

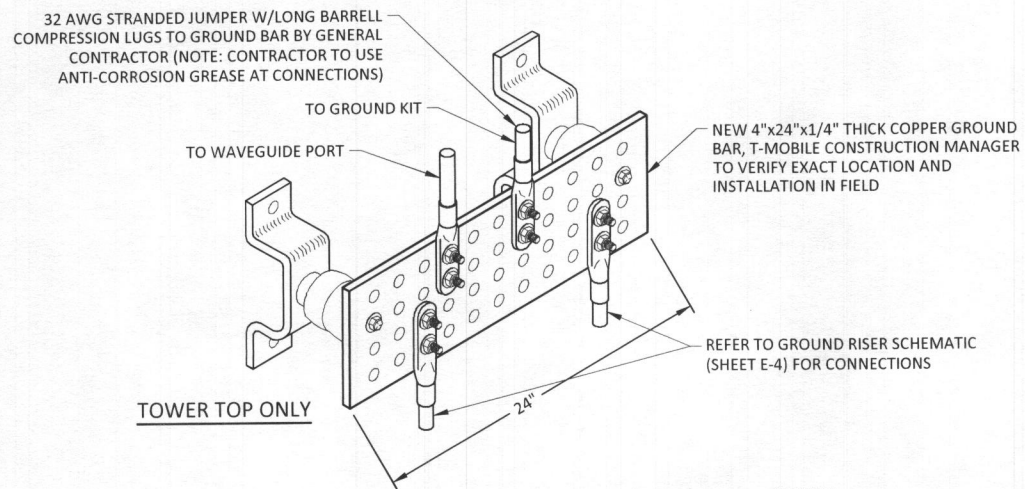
PROPOSED HOME DEPOT ADJUSTABLE FLOOD LIGHT DIRECTED TOWARD CABINET (SEA GULL LIGHTING MODEL #9607-12)

PROPOSED 8"x8"x24" GASKETED TROUGH WITH (2) 2" HOLES INTO PPC

**ELECTRICAL PLAN**  
SCALE: NTS

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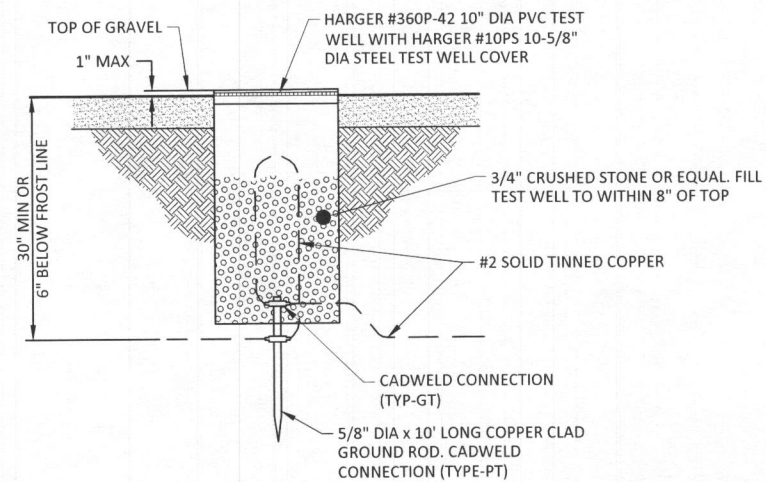


**NOTES:**

1. CONTRACTOR SHALL UTILIZE LUGGED HOLES PROVIDED. NO DRILLING OF THE BAR WILL BE PERMITTED.
2. ALL HARDWARE SHALL BE 18-8 STAINLESS STEEL INCLUDING BELLEVILLES. COAT ALL SURFACES WITH KOPR-SHIELD BEFORE MATING.
3. FOR GROUND BOND TO STEEL ONLY: INSERT A DRAGON TOOTH WASHER BETWEEN LUG AND STEEL. COAT ALL SURFACES WITH KOPR-SHEILD.

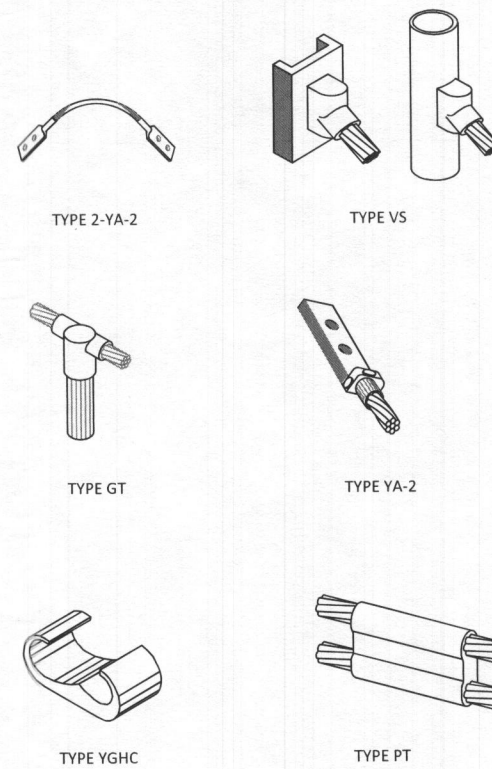
**TYPICAL GROUNDING BAR DETAIL (TOWER TOP ONLY)**

SCALE: NOT TO SCALE



**TEST WELL DETAIL**

SCALE: NOT TO SCALE



**CADWELD CONNECTION TYPES**

SCALE: NOT TO SCALE

**NOTES:**

CADWELD "TYPES" SHOWN ARE EXAMPLES. CONSULT WITH CONSTRUCTION MANAGER FOR SPECIFIC TYPES OF CADWELDS TO BE USED FOR THIS PROJECT.

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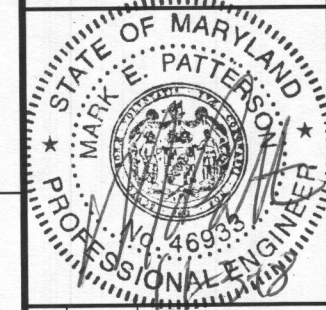
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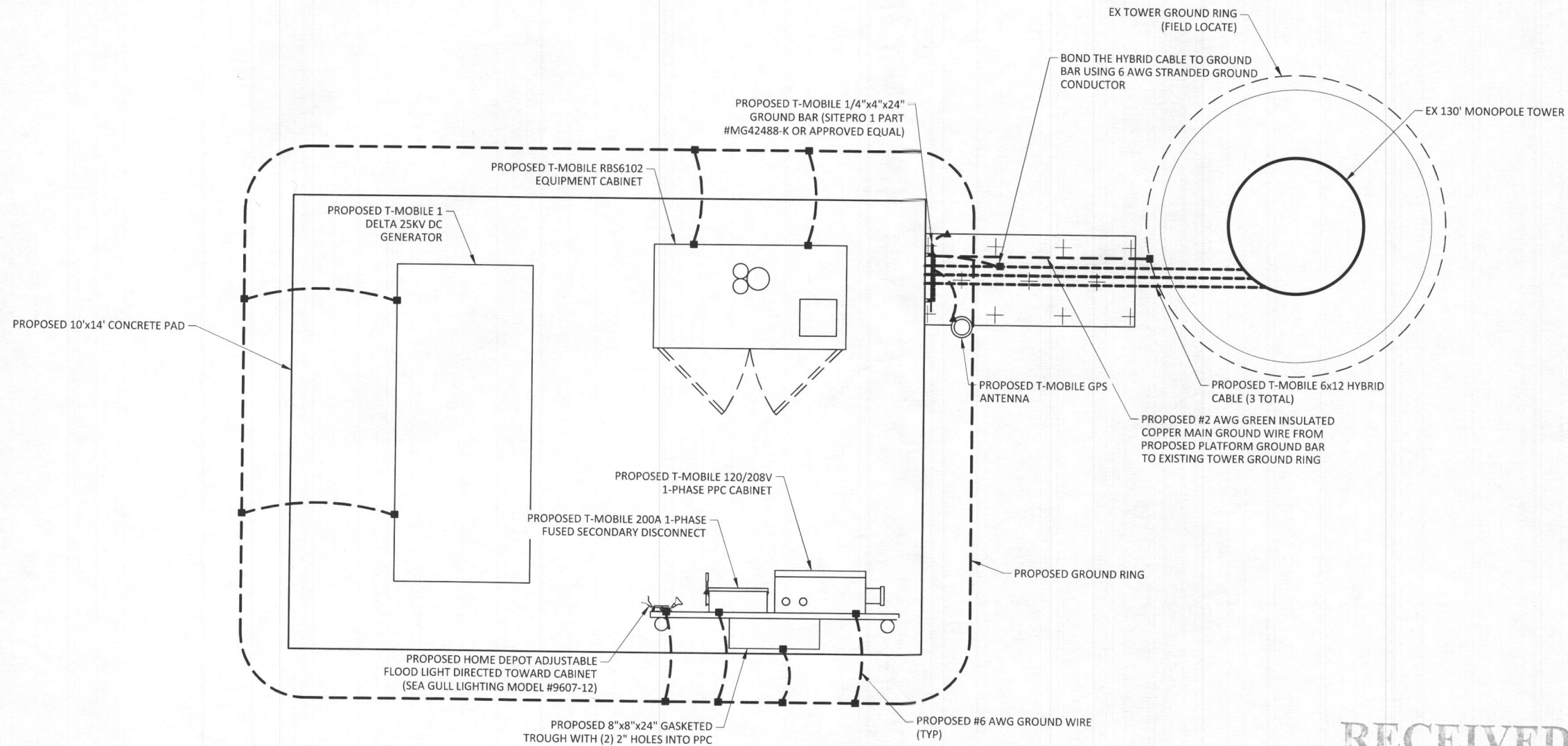
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 HOWARD COUNTY

SBA SITE ID NUMBER:  
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POD NUMBER: 18-24634  
 DRAWN BY: JMB  
 CHECKED BY: MEP  
 DATE: 6.22.18

SHEET TITLE:  
**ELECTRICAL & GROUNDING DETAILS**

SHEET NUMBER:  
**E-3**



**GROUNDING PLAN**  
SCALE: NTS

**RECEIVED**

NOV 29 2018

LICENSES & PERMITS  
DIVISION

**LEGEND**

- ▲ CADWELD CONNECTION
- COMPRESSION FITTING CONNECTION
- COAXIAL CABLE SHIELD GROUND KIT CONNECTION
- EXOTHERMIC WELD CONNECTION
- ◎ 5/8" x 10'-0" COPPER CLAD STEEL GROUND ROD W/ INSPECTION WELL
- 5/8" x 10'-0" COPPER CLAD STEEL GROUND ROD
- PROPOSED GROUND WIRING
- - - EXISTING GROUND WIRING
- TINNED COPPER GROUND BAR 1/4"x4"x12" OR 1/4" x4"x20"

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**MD46751-A**

POD NUMBER: 18-24634  
DRAWN BY: JMB  
CHECKED BY: MEP  
DATE: 6.22.18

SHEET TITLE:  
**GROUNDING PLANS & NOTES**

SHEET NUMBER:  
**E-4**



**GENERAL NOTES:**

1. ALL WORK IS TO COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE (NEC) AND ANY LOCAL ORDINANCES, CODES AND ALL OTHER ADMINISTRATIVE AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR SHALL FURNISH AND PAY FOR ALL PERMITS AND RELATED FEES.
2. ALL EQUIPMENT AND MATERIAL FURNISHED AND INSTALLED UNDER THIS CONTRACT SHALL BE UNDERWRITERS LABORATORIES (U.L.) LISTED, NEW, FREE FROM DEFECTS AND SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE BY OWNER OR HIS REPRESENTATIVE. SHOULD ANY TROUBLE DEVELOP DURING THIS PERIOD DUE TO FAULTY WORKMANSHIP, MATERIAL OR EQUIPMENT, THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS AND LABOR TO CORRECT THE TROUBLE WITHOUT THE COST.
3. ALL WORK SHALL BE EXECUTED IN A WORKMAN LIKE MANNER AND SHALL PRESENT A NEAT MECHANICAL APPEARANCE WHEN COMPLETED. CONTRACTOR SHOULD AVOID DAMAGE TO EXISTING UTILITIES WHEREVER POSSIBLE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING RELATED TO ELECTRICAL WORK, AND SHALL RESTORE ALL EXISTING LANDSCAPING, SPRINKLER SYSTEMS, CONDUITS, WIRING, PIPING, ETC. DAMAGED BY THE ELECTRICAL WORK TO MATCH CONDITIONS.
4. ELECTRICAL WORK SHALL INCLUDE, BUT NOT LIMITED TO, ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO COMPLETE ELECTRICAL POWER AND LIGHTING SYSTEMS, TELEPHONE AND COMMUNICATION SYSTEMS, PANEL BOARDS, CONDUIT, CONTROL WIRING, GROUNDING, ETC. AS INDICATED ON ELECTRICAL DRAWINGS AND/OR AS REQUIRED BY GOVERNING CODES.

5. PRIOR TO INSTALLING ANY ELECTRICAL WORK, THE CONTRACTOR SHALL VISIT THE JOB SITE AND VERIFY EXISTING SITE LOCATIONS AND CONDITIONS AND UTILITY SERVICE REQUIREMENTS OF THE JOB, AND BY REFERENCE TO ENGINEERING AND EQUIPMENT SUPPLIERS DRAWINGS. SHOULD THERE BE ANY QUESTION OR PROBLEM CONCERNING THE NECESSARY PROVISIONS TO BE MADE, PROPER DIRECTIONS SHALL BE OBTAINED BEFORE PROCEEDING WITH ANY WORK.
6. PROVIDE POWER AND TELEPHONE SERVICE POINTS PER UTILITY COMPANY REQUIREMENTS. CONTRACTOR SHALL CONTACT UTILITY SERVICE PLANNERS AND OBTAIN ALL SERVICE REQUIREMENTS AND INCLUDE COSTS SUCH IN THEIR BID.
7. SERVICE EQUIPMENT SHALL HAVE A SHORT CIRCUIT WITHSTAND RATING EQUAL TO OR EXCEEDING THE MAXIMUM AVAILABLE FAULT CURRENT AT THE SUPPLY TERMINAL ON THE UTILITY TRANSFORMER. SECONDARY, THE INSULATION SHALL BE FREE FROM ANY SHORT CIRCUITS AND GROUNDS.
8. WHERE APPLICABLE, CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY COMPANY REGARDING REQUIREMENTS AND INSTALLATION OF A CT CABINET.

**ELECTRICAL NOTES:**

1. ALL WIRES SHALL BE STRANDED COPPER WITH THHN/THWN AND 600 VOLTS INSULATION. ALL GROUND CONDUCTORS TO BE PROPERLY SIZED COPPER (STRANDED OR SOLID).
2. IN THE EVENT OF ANY CONFLICT OR INCONSISTENCY BETWEEN ITEMS SHOWN ON THE PLANS AND/OR SPECIFICATIONS, THE NOTE, SPECIFICATION OR CODE WHICH PRESCRIBES AND ESTABLISHED THE HIGHEST STANDARD OF PERFORMANCE SHALL PREVAIL.
3. SERVICE CONDUITS SHALL HAVE NO MORE THAN 4, 90° BENDS IN ANY SINGLE RUN. THE CONTRACTOR SHALL PROVIDE PULL BOXES AS NEEDED WHERE CONDUIT REQUIREMENTS EXCEED THESE CONDITIONS. PULL WIRES AND CAPS SHALL BE PROVIDED AT ALL SPARE CONDUITS FOR FUTURE USE.
4. ALL COAX, POWER AND TELEPHONE SYSTEM CONDUITS SHALL HAVE A MINIMUM OF 24-SCH. 80 PVC RADIUS SWEEPS TO EQUIPMENT, PULL BOXES, MONOPOLE, ETC., UNLESS OTHERWISE NOTED, OR AS REQUIRED BY UTILITY COMPANIES.
5. ALL CONDUIT AND NIPPLE ENTRIES TO CABINET AND METER BOXES WILL BE MADE WITH WEATHERPROOF HUBS, CONNECTORS OR LOCKNUTS LISTED FOR THE APPLICATIONS (NON-METALLIC BUSHINGS).
6. ONLY ONE SERVICE IS ALLOWED PER LUG. ALL GROUNDING AND BONDING MUST COMPLY WITH NEC 250 REQUIRED.
7. UPON COMPLETION OF THE JOB, THE CONTRACTOR SHALL FURNISH AS-BUILT DRAWINGS TO THE OWNER.

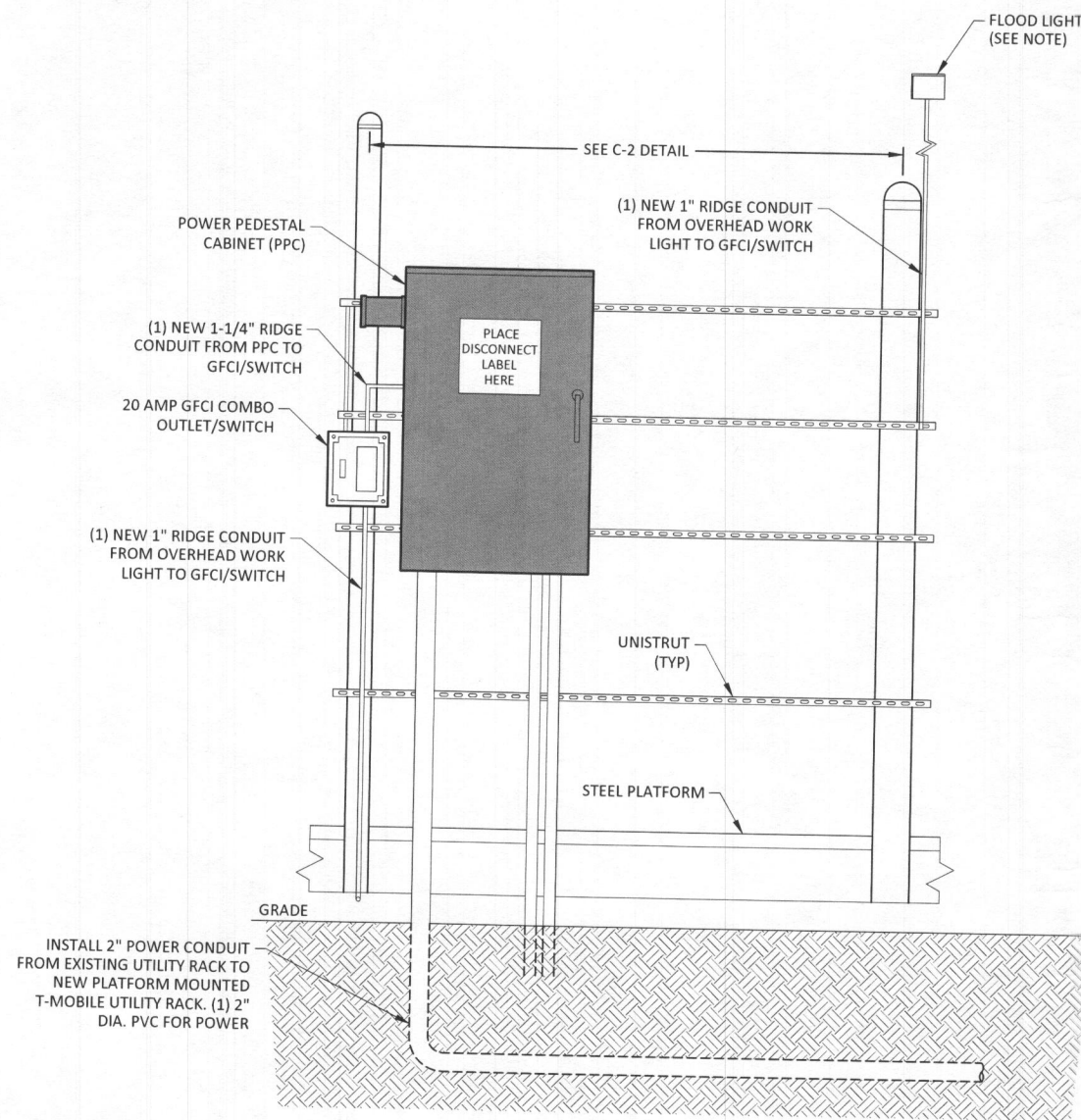
CONTRACTOR IS RESPONSIBLE TO COORDINATE INSTALL OF ELECTRICAL METER WITH UTILITY COMPANY AND VERIFY INSTALLATION WITH T-MOBILE.

**ELECTRICAL CONTRACTOR NOTE:**

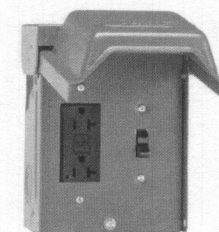
THESE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY AND SHOW THE GENERAL INTENT OF THE FINAL ARRANGEMENT OF ELECTRICAL SYSTEMS, EQUIPMENT AND CONNECTIONS. IT IS THE INTENT OF THESE ELECTRICAL DRAWINGS TO REQUIRE APPROPRIATE ELECTRICAL WORK TO COMPLETELY FACILITATE THE ELECTRICAL REQUIREMENTS FOR THE NEW TENANT (T-MOBILE). SOME OF THE ELECTRICAL WORK SHOWN IS EXISTING AND SHALL REMAIN IN PLACE, AND NEW WORK ADDED TO ACCOMMODATE T-MOBILE ELECTRICAL REQUIREMENTS. IT IS NOT INTENDED TO SHOW EXISTING ELECTRICAL WORK EXACTLY AS IS, BUT TO SHOW THE INTENT ONLY. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY'S FOR ADDED LOAD (T-MOBILE). VERIFY ELECTRICAL AND TELEPHONE SERVICE SIZE AND CAP.

**FLOOD LIGHT NOTE:**

CONTRACTOR TO PROVIDE & INSTALL (2) 300W, QUARTZ FLOOD LIGHTS. MOUNT FLOOD LIGHT ON ROUND, WEATHER-PROOF BOX WITH DIRECTIONAL SHIELDING SHROUD AND 3/4" HUBS. LIGHT SHIELDING SHALL BE FOCUSED ON EQUIPMENT CABINETS ONLY, AND SHALL ONLY BE TURNED ON WHILE EQUIPMENT TECHNICIANS VISIT SITE. BOLT FLOOD LIGHT ASSEMBLY TO OVERHEAD ICE BRIDGE. SEE SHEET C-2 FOR LOCATION.



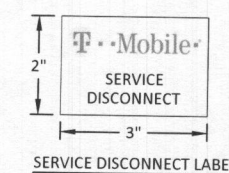
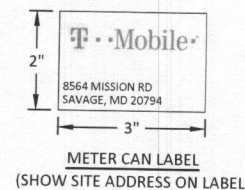
**PLATFORM UTILITY RACK**  
SCALE: NOT TO SCALE



MANUFACTURER: GENERAL ELECTRIC (OR EQUIV.)  
 MODEL: U010S010GRP  
 DEPTH: 5.2"  
 HEIGHT: 7.1"  
 WIDTH: 5.8"  
 WEIGHT: 3.92 lbs  
 UL LISTING: 1-UL LISTED  
 MAX. AMPERAGE: 20 A  
 VOLTAGE: 120v

**20 AMP OUTDOOR GFCI AND SWITCH COMBO**

SCALE: NOT TO SCALE



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 SBA TOWER MD46751-A  
 8564 MISSION RD  
 SAVAGE, MD 20794  
 HOWARD COUNTY

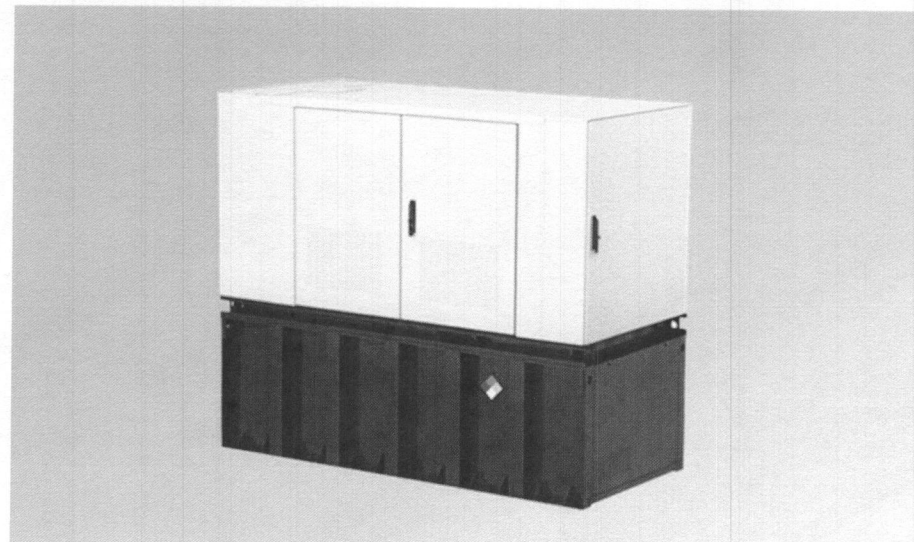
SBA SITE ID NUMBER:  
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POD NUMBER: 18-24634  
 DRAWN BY: JMB  
 CHECKED BY: MEP  
 DATE: 6.22.18

SHEET TITLE:  
**ELECTRICAL  
 NOTES & RACK  
 DETAILS**

SHEET NUMBER:  
**E-6**

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## PowerGen 25000

### DC Generator Product Features

- 25kW DC Standby Power with telcom HE rectifiers
- Direct connect to positive ground Site Support Cabinet -48V DC plant
- Site -48V DC powered charger of engine start 12V Supercap.
- Telcom grade enclosure with noise reduction features
- Status/alarms via telcom standard dry contacts, WEB GUI/SNMP
- Easy access installation and maintenance.
- OBD2 Port for GEOTAB monitoring
- Maintenance interval over 500hrs

www.deltaww.com



### Specifications

Model	PowerGen 25000 DC Generator
<b>1. General</b>	
Rated Power	Output: 25 kW @ 52 V <sub>DC</sub> Standby Load: 200 W (excluding 500W engine heater)
Dimensions (W x H x D)	83" x 78" x 38" (with standard 250 gallon tank)
Weight	3220 lbs.
Fuel consumption	1.29 gallons/hour ( 50% load) 1.61 gallons/hour ( 75% load) 2.19 gallons/hour (100% load)
Acoustics	65 dB(A) at 23 feet (7 meters)
Cooling Air Flow	5500 ft <sup>3</sup> / minute
Output Voltage	-52 V <sub>DC</sub> (Positive Ground, Configurable -48 to -56 V <sub>DC</sub> )
Voltage Regulation	+/- 1%
Ripple Voltage	< 250 mVp-p LCD with LED Indicators, Form C Alarm Dry Contacts Remote EPO WEB GUI and SNMP
User Interfaces	Auto start based site battery voltage (-50V default) Local manual/Emergency mode Configurable cycling exercise self-test Alarm renaming with configurable severity Generator DC output energy meter Engine run hour meter Engine start counter.
Features	UL LISTED including UL142 fuel tank FCC Part 15 Class A
Safety	
EMC	
<b>2. Engine</b>	
Make	Perkins 404D-22TG (Tier 4i, Turbocharged 4 cyl. Diesel)
Power	30 kW @ fixed 1800 RPM
Exhaust Flow	265 ft <sup>3</sup> / minute (7.5 m <sup>3</sup> / minute)
Oil Capacity	10.6 liters
Coolant Capacity	9.3 liters
Engine Start Source	Internal 12V Supercap
Engine Start Charger	Delta 48V DC powered
<b>3. Alternator</b>	
Make	Leroy (Insulation Class H)
Voltage Regulator	AS480 ( ± 1%, excited AVR)
<b>4. Environment</b>	
Operating temperature	-25°C to +45°C (-13°F to +113°F) Derate power 5% per 5°C above +35°C
Altitude	Derate power 3% per 1000 feet above 3000 feet
Humidity (relative)	95%, non-condensing (Max.)
<b>5. PowerGen Part Numbers</b>	
Standard (250 gallon tank)	ESOG480-CCA02
*All specifications are subject to change without prior notice	

Delta Group Website:  
www.deltaww.com  
Product Website:  
www.deltapowersolutions.com

Delta Electronics (US)  
2925 E. Plano Parkway  
Plano (Texas) 75074  
DEUSTPS.Sales@deltaww.com  
877-DELTA-08 (877-335-8208)

FS\_PowerGen-2500-48DC\_en\_rev02 0622

PLANS PREPARED FOR:  
**T-Mobile**  
12050 BALTIMORE AVENUE  
BELTSVILLE, MD 20705  
OFFICE: (240) 264-8600  
FAX: (240) 264-8610

PLANS PREPARED BY:  
**POD**  
POWER OF DESIGN  
11490 BLUEGRASS PKWY  
LOUISVILLE, KY 40299  
502-437-5252

MLA PARTNER:  
**SBA**

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REV.	DATE	DESCRIPTION
C	8.29.18	FOR APPROVAL
D	8.29.18	FOR APPROVAL
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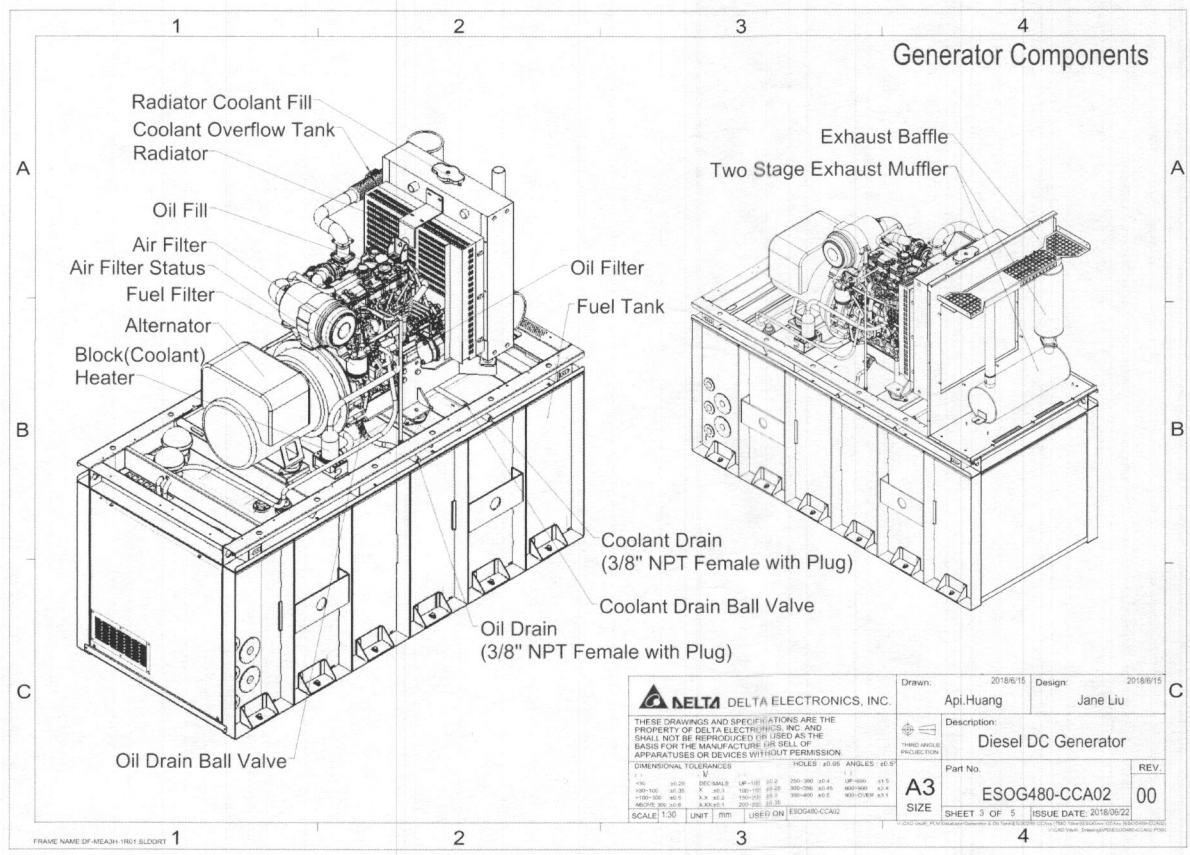
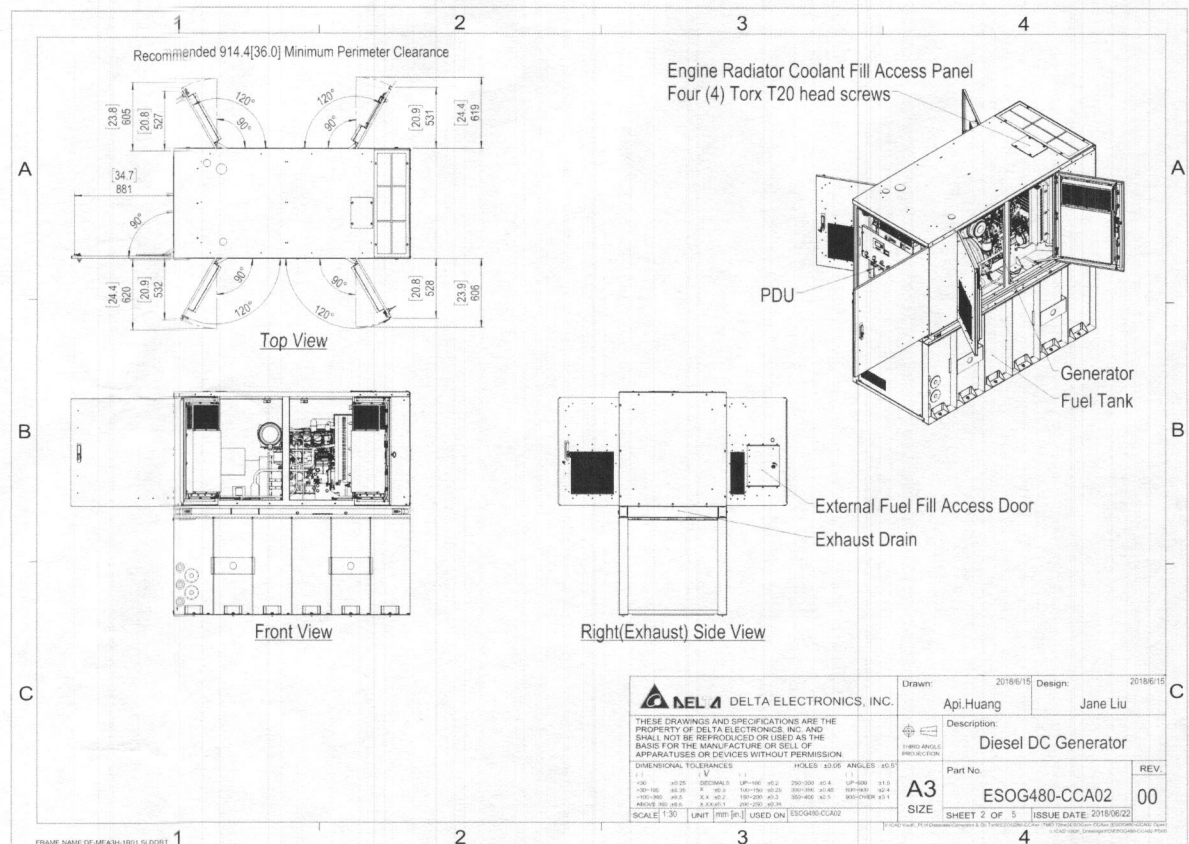
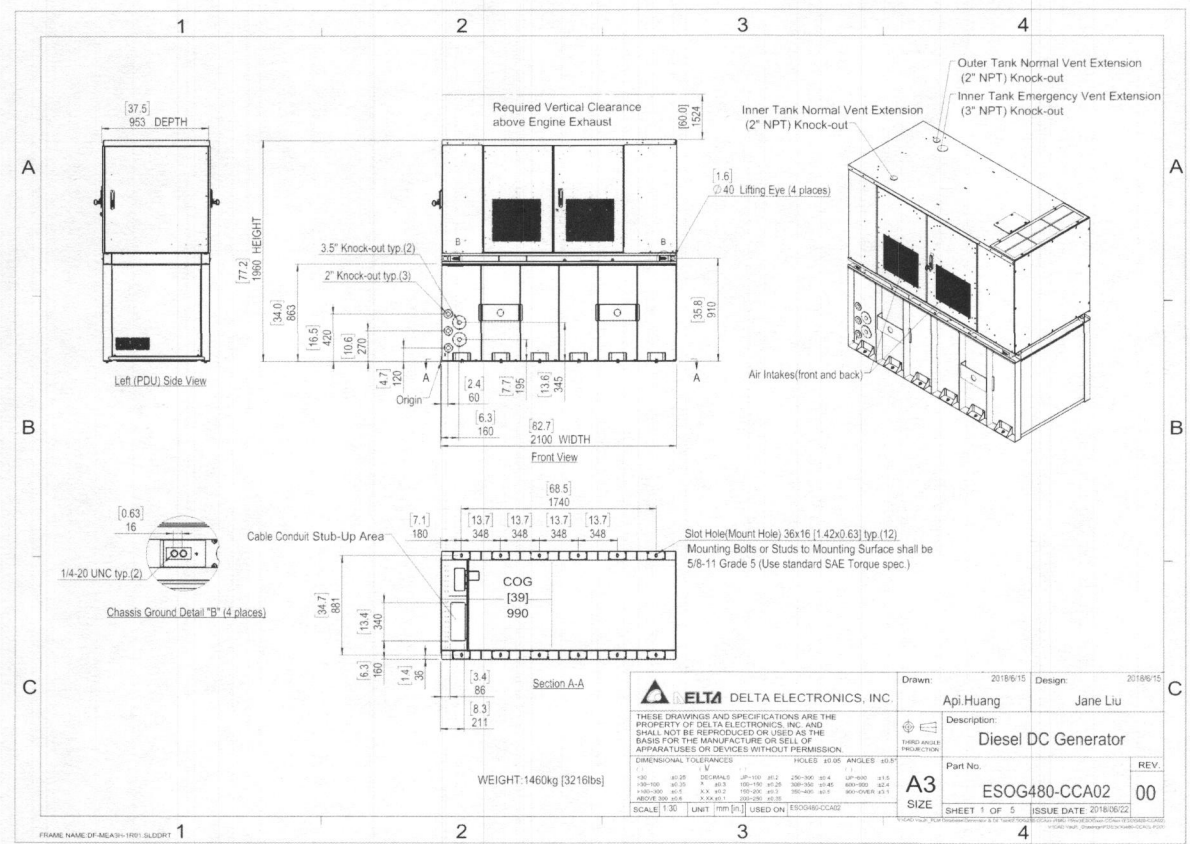
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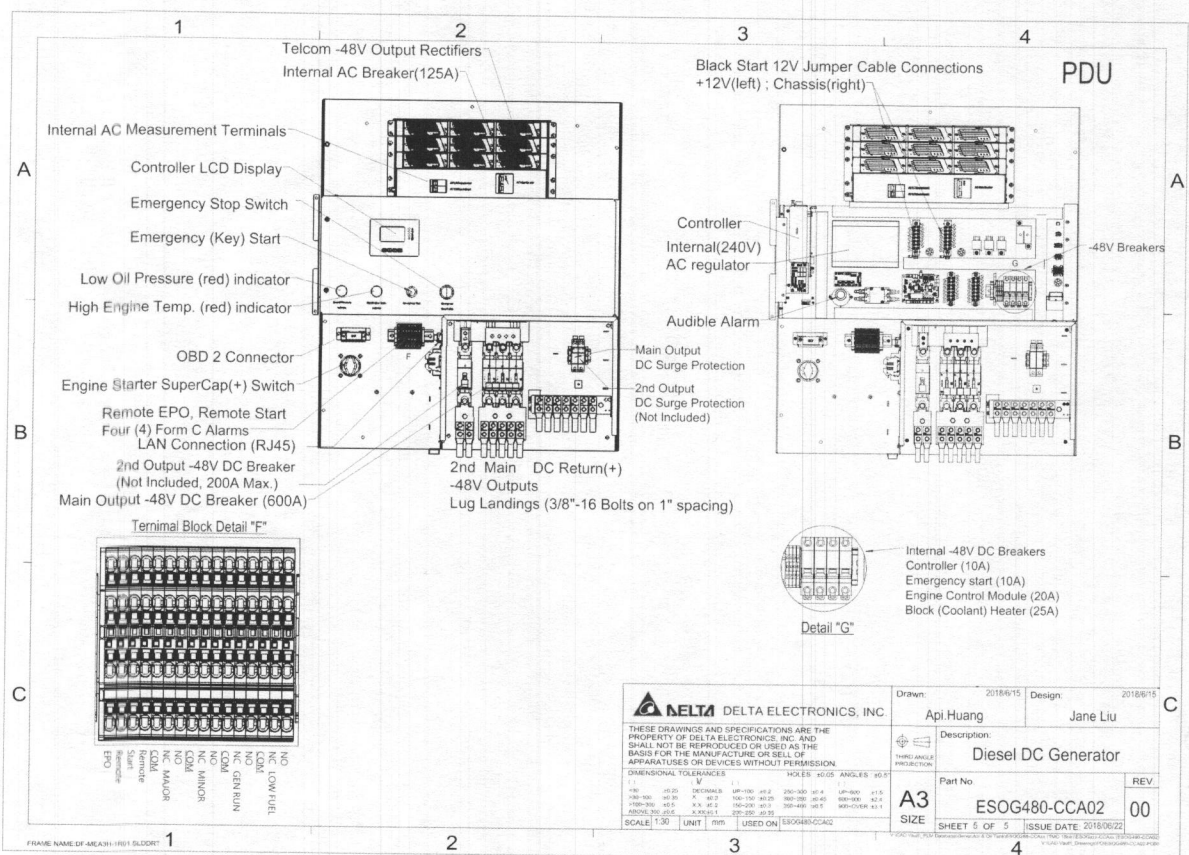
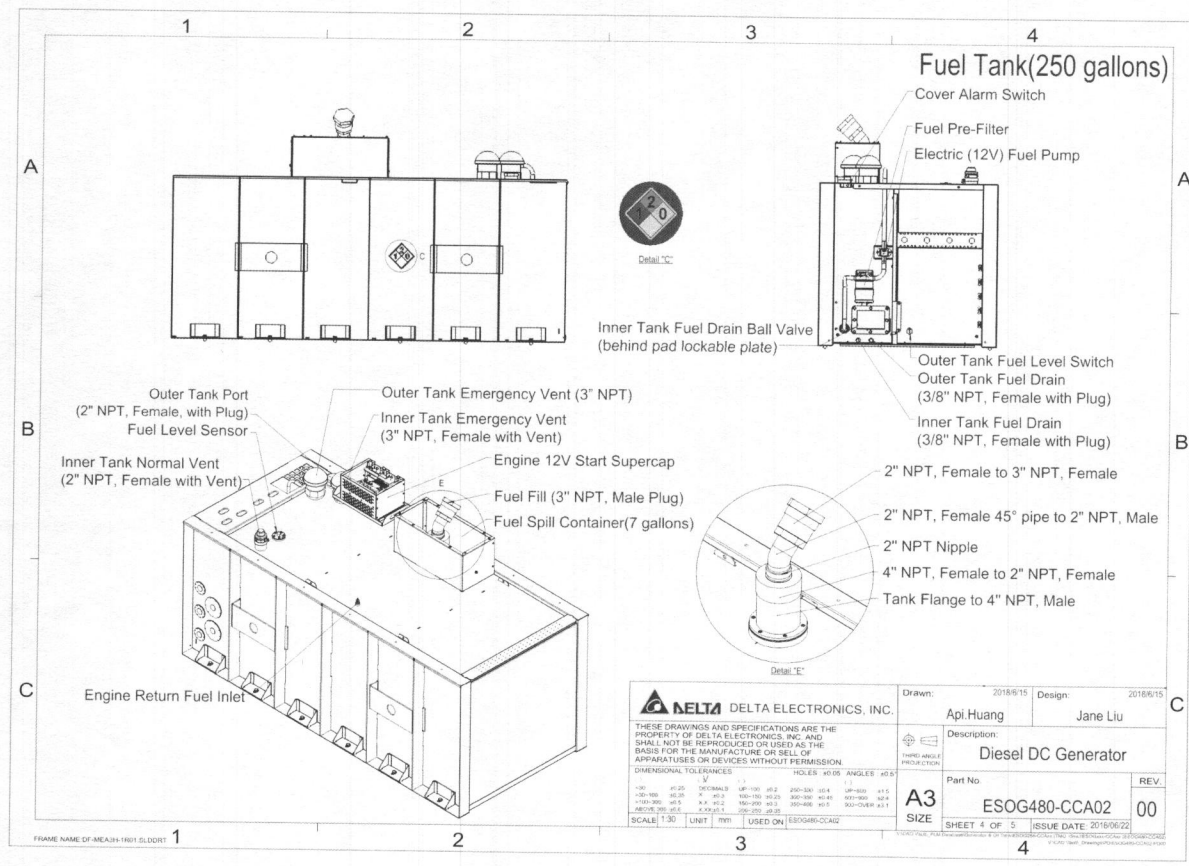
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