



VICINITY MAP



AMERICAN TOWER®

ATC SITE NAME: LAKE CITY FL SQA  
ATC SITE NUMBER: 412243  
VERIZON WIRELESS SITE NAME: PHILLIPS LAKE CITY  
VERIZON WIRELESS SITE NUMBER: 131313  
VERIZON WIRELESS FUZE PID: 16276469  
VERIZON WIRELESS MDG LOCATION CODE: 5000077708  
SITE ADDRESS: 233 N W RANCH COURT  
LAKE CITY, FL 32055-8079



LOCATION MAP

VERIZON WIRELESS  
ANTENNA AMENDMENT DRAWINGS

| COMPLIANCE CODE   |                                | PROJECT SUMMARY  |                    | PROJECT DESCRIPTION   | SHEET INDEX  |              |   |       |     |
|---|--------------------------------|--|--------------------|---|--|--------------|---|-------|-----|
| <p>ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.</p> <p>1. 2023 FLORIDA BUILDING CODE, 8TH EDITION<br/>2. ANSI/TIA-222-H<br/>3. 8TH EDITION FLORIDA FIRE PREVENTION CODE<br/>4. 2020 NATIONAL ELECTRICAL CODE (NFPA 70)<br/>5. CITY/COUNTY ORDINANCES</p> <p>DESIGN CRITERIA FOR STRUCTUAL ANALYSIS BY ATC DATED MAY 17, 2024:</p> <p>ULTIMATE WIND SPEED: 119 MPH (3-SECOND GUST)<br/>SERVICE WIND SPEED: 60 MPH<br/>RISK CATEGORY: II<br/>EXPOSURE CATEGORY: C<br/>TOPOGRAPHIC CATEGORY: 1</p> |                                | <p><u>SITE ADDRESS:</u></p> <p>233 NORTH WEST RANCH COURT<br/>LAKE CITY, FL 32055-8079<br/>COUNTY: COLUMBIA<br/><u>REGISTERED COORDINATES:</u><br/>LATITUDE: 30° 13' 32.60" N NAD 83<br/>LONGITUDE: 82° 43' 29.40" W<br/>GROUND ELEVATION: 465' AMSL<br/><u>GEOGRAPHIC COORDINATES:</u><br/>LATITUDE: 30.22575, 30° 13' 32.59" N<br/>LONGITUDE: -82.72485, 82° 43' 29.39" W<br/><u>ZONING INFORMATION:</u><br/>JURISDICTION: COLUMBIA COUNTY<br/>PARCEL ID: 163S1602156002</p> |                    | <p>VERIZON WIRELESS IS PROPOSING THE FOLLOWING WORK TO BE COMPLETED ON AN EXISTING 300' GUYED TOWER:</p> <p><u>TOWER WORK:</u><br/>REMOVE (3) SECTOR FRAME MOUNT(S), (12) ANTENNA(S), (3) RRU(s), AND (16) 1-5/8" COAX CABLE(S).</p> <p>INSTALL (3) SECTOR FRAME MOUNT(S) (9) ANTENNA(S), (6) RRU(s), (1) OVP(s), AND (1) 6x12 HYBRIFLEX (1-1/4" HYBRIFLEX) CABLE(S).</p> <p><u>GROUND WORK:</u><br/>REMOVE (1) CDMA CABINET(S), (1) 6201 ODE CABINET(S), (1) EBRE CABINET(S), (6) RRU(s), (1) 200A PPC(s), (1) ATS(s), (1) 30KW LP GENERATOR(S), (1) 250 GAL. PROPANE TANK(S), AND BATTERY(IES).</p> <p>INSTALL (3) HT200ET BATTERY STRING(S), (1) 200A ILC(s), (1) 50KW LP GENERATOR(S), (1) 500 GALLON LP TANK(S), (1) BATTERY CABINET(S), AND (1) CONSOLIDATED CABINET(S).</p> <p>INSTALL ROUTER(S), BASEBAND(s), UPCONVERTER(s), AND SITEBOSS IN PROPOSED CONSOLIDATED CABINET(s).</p> | SHEET NO:  | DESCRIPTION: | REV:  | DATE: | BY: |
|   |                                | G-001  | TITLE SHEET        |   | 0  | 06/21/24     | PAP   |       |     |
|   |                                | G-002  | GENERAL NOTES      |   | 0  | 06/21/24     | PAP   |       |     |
|   |                                | C-001  | OVERALL SITE PLAN  |   | 0  | 06/21/24     | PAP   |       |     |
|   |                                | C-101  | DETAILED SITE PLAN |   | 0  | 06/21/24     | PAP   |       |     |
| C-102   | DETAILED EQUIPMENT LAYOUT      | 0  | 06/21/24           | PAP   |  |              |   |       |     |
| C-201   | TOWER ELEVATION                | 0  | 06/21/24           | PAP   |  |              |   |       |     |
| C-401   | ANTENNA INFORMATION & SCHEDULE | 0  | 06/21/24           | PAP   |  |              |   |       |     |
| C-501   | CONSTRUCTION DETAILS           | 0  | 06/21/24           | PAP   |  |              |   |       |     |
| C-502   | CONSTRUCTION DETAILS           | 0  | 06/21/24           | PAP   |  |              |   |       |     |
| E-101   | PANEL SCHEDULES                | 0  | 06/21/24           | PAP   |  |              |   |       |     |
| E-102   | ONE-LINE DIAGRAM               | 0  | 06/21/24           | PAP   |  |              |   |       |     |
| E-103   | GROUNDING PLAN & SCHEMATIC     | 0  | 06/21/24           | PAP   |  |              |   |       |     |
| E-104   | GROUNDING PLAN & SCHEMATIC     | 0  | 06/21/24           | PAP   |  |              |   |       |     |
| E-501   | GROUNDING DETAILS              | 0  | 06/21/24           | PAP   |  |              |   |       |     |
| R-601 - R-607   | SUPPLEMENTAL                   |  |                    |   |  |              |   |       |     |
|   |                                |  |                    |   | CONTRACTOR PMI REQUIREMENTS                                    |              |   |       |     |
|   |                                |  |                    |   | PMI ACCESSED AT:   |              | HTTPS://PMI.VZWSMART.COM  |       |     |
|   |                                |  |                    |   | SMART TOOL VENDOR PROJECT NUMBER:                              |              | 10231382  |       |     |
|   |                                |  |                    |   | VZW LOCATION CODE (PSLC):                                      |              | 131313  |       |     |
|   |                                |  |                    |   | ***PMI AND REQUIREMENTS ALSO EMBEDDED IN MOUNT ANALYSIS REPORT |              |   |       |     |
|   |                                |  |                    |   | MOUNT MODIFICATION REQUIRED:                                   |              | YES   |       |     |
|   |                                |  |                    |   | VZW APPROVED SMART KIT VENDORS:                                |              | REFER TO MOUNT MODIFICATION DRAWINGS PAGES FOR VZW SMART KIT APPROVED VENDORS |       |     |

|   |  |
|---|--|
| <p>Always call 811 two full business days before you dig</p> <p><b>Sunshine811.com</b></p> <p>www.sunshine811.com</p> |  |
|---|--|

|  |  |
|--|--|
| <p>DIRECTIONS: FROM I-75 IN LAKE CITY TAKE EXIT 427 (HWY 90) WEST. CONTINUE WEST FOR 1.8 MILES TO BROWN RD AND TAKE A RIGHT. FOLLOW BROWN RD TO THE LEFT BESIDE THE RR TRACKS. TAKE RIGHT ON NW BERT AVE OVER THE RR TRACKS. CONTINUE GOING RIGHT AT THE FORK TO NASH RD. TAKE A RIGHT. TAKE NEXT LEFT ONTO NW EDSSEL ST. FOLLOW ROAD UPHILL TOWER IN THE BACK OF PROPERTY.SITE ADDRESS DOES NOT MATCH THE 911 ADDRESS. THE SITE ADDRESS IS THE CORRECT ADDRESS.</p> |  |
|--|--|

|   |  |
|---|--|
| <p>1. THE FACILITY IS UNMANNED.<br/>2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE.<br/>3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE.<br/>4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED.<br/>5. HANDICAP ACCESS IS NOT REQUIRED.<br/>6. THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT INVOLVES THE COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR § 1.61000 (B)(7).</p> |  |
|---|--|

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OFFICE: (919) 661-6351  
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FL COA#: 31011

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**412243**

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SITE ADDRESS:  
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| REV. | DESCRIPTION       | BY  | DATE     |
|------|-------------------|-----|----------|
| A    | PRELIMINARY       | SAS | 05/28/24 |
| B    | 90% CONSTRUCTION  | KAG | 06/14/24 |
| D    | 100% CONSTRUCTION | PAP | 06/21/24 |
|      |                   |     |          |
|      |                   |     |          |

DIGITAL/ELECTRONIC SEAL:

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY DANIEL P. HAMM, P.E. ON THE DATE ADJACENT TO THE SEAL.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

PE #78027

I agree to the terms defined by the placement of my signature on this document

2024.06.21 17:09:42-0400

Daniel P Hamm

SEAL:

|                |                    |
|----------------|--------------------|
| DATE DRAWN:    | 06/21/24           |
| ATC JOB NO:    | 14857598           |
| CUSTOMER NAME: | PHILLIPS LAKE CITY |
| CUSTOMER ID:   | 131313             |

**TITLE SHEET**

|                               |                       |
|-------------------------------|-----------------------|
| SHEET NUMBER:<br><b>G-001</b> | REVISION:<br><b>0</b> |
|-------------------------------|-----------------------|

GENERAL CONSTRUCTION NOTES:

1. OWNER FURNISHED MATERIALS, VERIZON "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL

A. BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/CO-LOCATE ONLY)

B. AC/TELCO INTERFACE BOX (PPC)

C. ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILD/CO-LOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)

D. TOWERS, MONOPOLES

E. TOWER LIGHTING

F. GENERATORS & LIQUID PROPANE TANK

G. ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING

H. ANTENNAS (INSTALLED BY OTHERS)

I. TRANSMISSION LINE

J. TRANSMISSION LINE JUMPERS

K. TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS

L. TRANSMISSION LINE GROUND KITS

M. HANGERS

N. HOISTING GRIPS

O. BTS EQUIPMENT
2. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL OTHER MATERIALS FOR THE COMPLETE INSTALLATION OF THE SITE INCLUDING, BUT NOT LIMITED TO, SUCH MATERIALS AS FENCING, STRUCTURAL STEEL SUPPORTING SUB-FRAME FOR PLATFORM, ROOFING LABOR AND MATERIALS, GROUNDING RINGS, GROUNDING WIRES, COPPER-CLAD OR XIT CHEMICAL GROUND ROD(S), BUSS BARS, TRANSFORMERS AND DISCONNECT SWITCHES WHERE APPLICABLE, TEMPORARY ELECTRICAL POWER, CONDUIT, LANDSCAPING COMPOUND STONE, CRANES, CORE DRILLING, SLEEPERS AND RUBBER MATTING, REBAR, CONCRETE CAISSONS, PADS AND/OR AUGER MOUNTS, MISCELLANEOUS FASTENERS, CABLE TRAYS, NON-STANDARD ANTENNA FRAMES AND ALL OTHER MATERIAL AND LABOR REQUIRED TO COMPLETE THE JOB ACCORDING TO THE DRAWINGS AND SPECIFICATIONS. IT IS THE POSITION OF VERIZON TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED PERMITS.
3. ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSI/EIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS.
4. CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
6. ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
7. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
8. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
9. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
11. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
12. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE VERIZON REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE VERIZON REP PRIOR TO PROCEEDING.
13. EACH CONTRACTOR SHALL COOPERATE WITH THE VERIZON REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
14. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE VERIZON CONSTRUCTION MANAGER.
15. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
16. WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE VERIZON REP AND ENGINEER OF RECORD IMMEDIATELY.
17. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
18. CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
19. CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
20. CONTRACTOR SHALL FURNISH VERIZON AND AMERICAN TOWER CORPORATION (ATC) WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
21. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH VERIZON REP TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL ALL ITEMS PROVIDED.

22. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH VERIZON REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY VERIZON MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH VERIZON SPECIFICATIONS AND REQUIREMENTS.
24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO VERIZON FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
25. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO VERIZON SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
26. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
27. CONTRACTOR SHALL NOTIFY VERIZON REP A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND APPROVAL.
28. WHEN THE PROJECT SCOPE REQUIRES THE USE OF THE SAFETY CLIMB, THE GENERAL CONTRACTOR SHALL ENSURE THE SAFETY CLIMB IS FREE OF OBSTRUCTIONS, NOT RUBBING ON OR TRAPPED BY ANY INSTALLED CUSTOMER EQUIPMENT, IS VISUALLY TAUT, MEETS MANUFACTURER INSTALLATION SPECIFICATIONS, AND IS FIRMLY SECURED AT ALL CABLE GUIDE LOCATIONS UPON PROJECT COMPLETION.
29. COMPLETION OF PROJECT SHALL NOT OBSTRUCT, TRAP, LOOSEN, OR OTHERWISE CAUSE FAILURE TO MEET MANUFACTURER INSTALLATION REQUIREMENTS FOR THE SAFETY CLIMB.
30. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.
31. THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE, ALL EXISTING FACILITIES AND SUCH OF HIS NEW WORK LIABLE TO INJURY DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION.
32. ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE VERIZON REP. ANY WORK FOUND BY THE VERIZON REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
33. IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS AS SPECIFIED.
34. VERIZON FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE VERIZON WAREHOUSE, NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNCRATE, PROTECTED AND INSTALLED BY THE CONTRACTOR WITH ALL APPURTENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP.
35. VERIZON OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY EQUIPMENT OR MATERIALS WHICH, IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, EITHER BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO VERIZON OR THEIR ARCHITECT/ENGINEER.

SPECIAL CONSTRUCTION

ANTENNA INSTALLATION NOTES:

1. WORK INCLUDED:

A. ANTENNA AND COAXIAL/HYBRID CABLES ARE FURNISHED BY VERIZON UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL.

B. INSTALL ANTENNAS AS INDICATED ON DRAWINGS AND VERIZON SPECIFICATIONS.

C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS.

D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE.

E. INSTALL COAXIAL/HYBRID CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL/HYBRID CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.
2. ANTENNA AND COAXIAL/HYBRID CABLE GROUNDING:

A. ALL EXTERIOR #6 GREEN GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR EQUAL.

- B. ALL COAXIAL/HYBRID CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL/HYBRID CABLE (NOT WITHIN BENDS)

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



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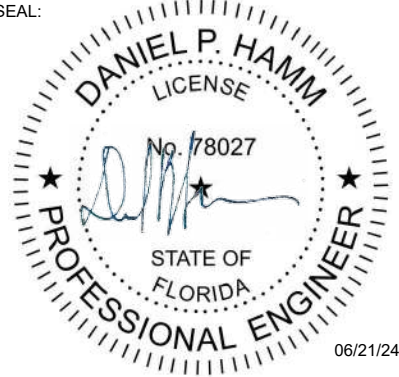
| REV.         | DESCRIPTION       | BY  | DATE     |
|--------------|-------------------|-----|----------|
| <div>A</div> | PRELIMINARY       | SAS | 05/28/24 |
| <div>B</div> | 90% CONSTRUCTION  | KAG | 06/14/24 |
| <div>0</div> | 100% CONSTRUCTION | PAP | 06/21/24 |
| <div></div>  |                   |     |          |
| <div></div>  |                   |     |          |

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SEAL:



|                |                    |
|----------------|--------------------|
| DATE DRAWN:    | 06/21/24           |
| ATC JOB NO:    | 14857598           |
| CUSTOMER NAME: | PHILLIPS LAKE CITY |
| CUSTOMER ID:   | 131313             |

GENERAL NOTES

SHEET NUMBER:

G-002

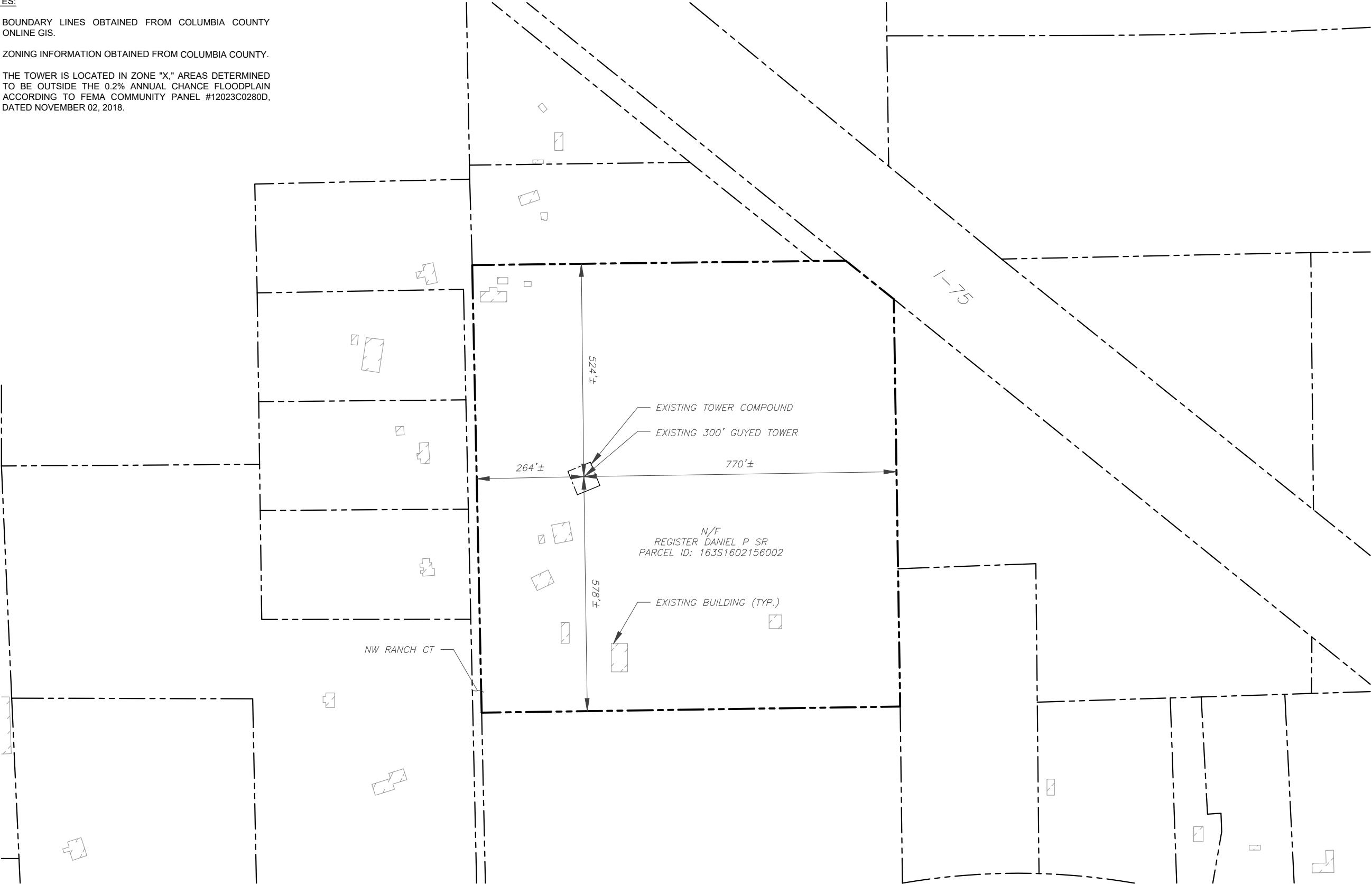
REVISION:

0



NOTES:

1. BOUNDARY LINES OBTAINED FROM COLUMBIA COUNTY ONLINE GIS.
2. ZONING INFORMATION OBTAINED FROM COLUMBIA COUNTY.
3. THE TOWER IS LOCATED IN ZONE "X," AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN ACCORDING TO FEMA COMMUNITY PANEL #12023C0280D, DATED NOVEMBER 02, 2018.



LEGEND

---

EXISTING PROPERTY LINE

---

EXISTING ADJACENT PROPERTY LINE

---

EXISTING LEASE AREA

1 OVERALL SITE PLAN

SCALE: 1" = 250'

0250'500'

SCALE: 1"=250' (11X17)

1"=125' (22X34)

N

AMERICAN TOWER

TOWER ENGINEERING PROFESSIONALS

326 TRYON ROAD

RALEIGH, NC 27603-3530

OFFICE: (919) 661-6351

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FL COA#: 31011

|                             |                   |     |          |
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| ATC SITE NUMBER:            |                   |     |          |
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| LAKE CITY FL SQA            |                   |     |          |
| VERIZON WIRELESS SITE NAME: |                   |     |          |
| PHILLIPS LAKE CITY          |                   |     |          |
| SITE ADDRESS:               |                   |     |          |
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| LAKE CITY, FL 32055-8079    |                   |     |          |
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| 0                           | 100% CONSTRUCTION | PAP | 06/21/24 |
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SEAL:

DANIEL P. HAMM

LICENSE

No. 78027

STATE OF FLORIDA

PROFESSIONAL ENGINEER

06/21/24

|                |  |                    |
|----------------|--|--------------------|
| DATE DRAWN:    |  | 06/21/24           |
| ATC JOB NO:    |  | 14857598           |
| CUSTOMER NAME: |  | PHILLIPS LAKE CITY |
| CUSTOMER ID:   |  | 131313             |

OVERALL SITE PLAN

SHEET NUMBER:

C-001

REVISION:

0

SITE PLAN NOTES:

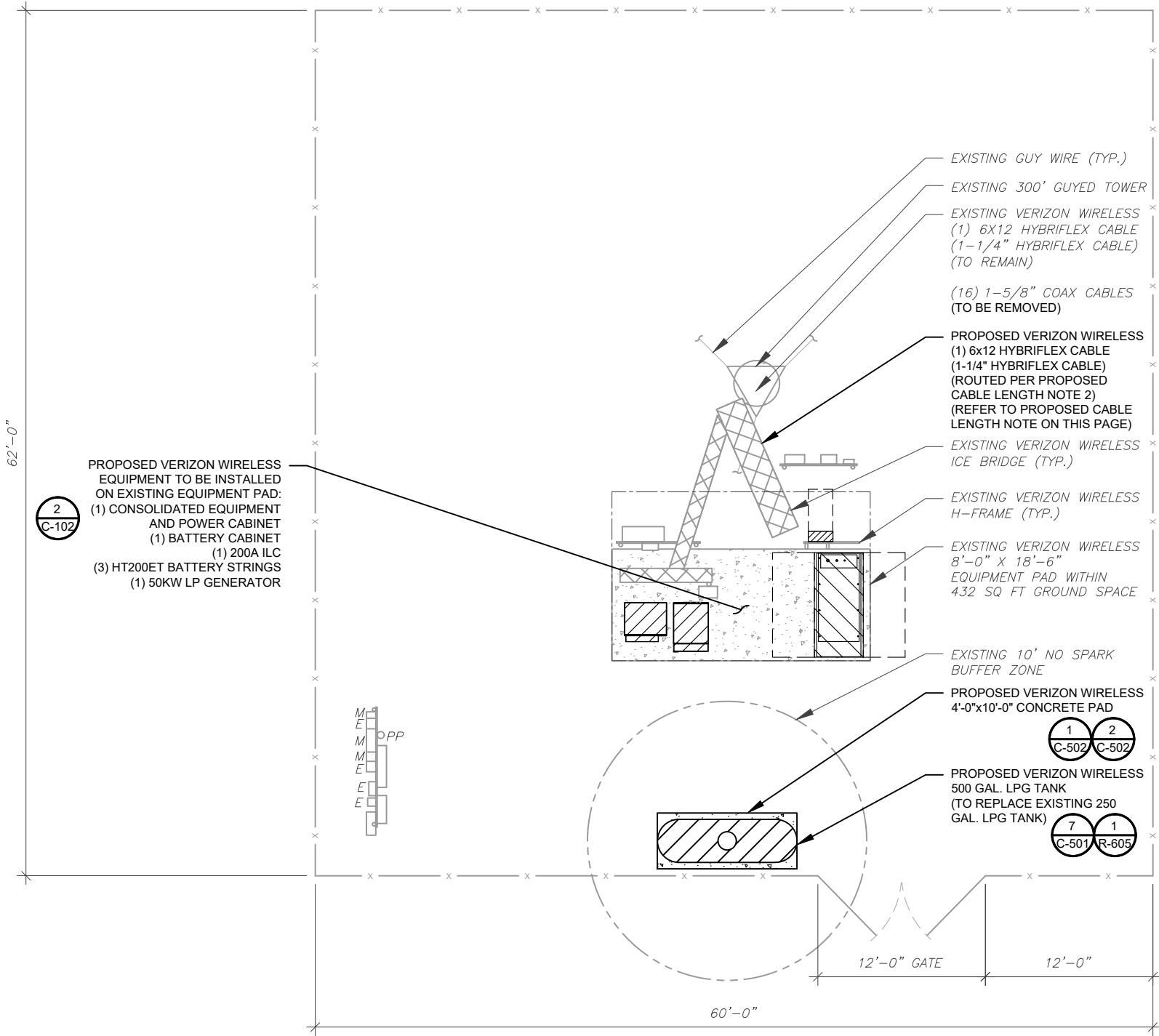
1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
2. ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.

LEGEND

|       |                           |
|-------|---------------------------|
| ⊗     | GROUNDING TEST WELL       |
| ATS   | AUTOMATIC TRANSFER SWITCH |
| B     | BOLLARD                   |
| CSC   | CELL SITE CABINET         |
| D     | DISCONNECT                |
| E     | ELECTRICAL                |
| F     | FIBER                     |
| GEN   | GENERATOR                 |
| G     | GENERATOR RECEPTACLE      |
| HH, V | HAND HOLE, VAULT          |
| IB    | ICE BRIDGE                |
| K     | KENTROX BOX               |
| LC    | LIGHTING CONTROL          |
| M     | METER                     |
| PB    | PULL BOX                  |
| PP    | POWER POLE                |
| T     | TELCO                     |
| TRN   | TRANSFORMER               |
| — x — | CHAINLINK FENCE           |

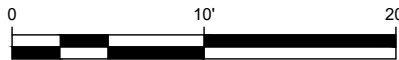
PROPOSED CABLE NOTES:

1. ESTIMATED LENGTH OF PROPOSED CABLE IS **365'**. ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 15% (OF THE TWO PREVIOUS VALUES). CDS DEFER TO GREATEST CABLE LENGTH.
2. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. WHERE POSSIBLE UTILIZE EXISTING CABLE SUPPORT STRUCTURES AS PROVIDED FOR CARRIER TO ADEQUATELY SECURE CABLES, USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER. OTHERWISE, ATTACH CABLES TO HORIZONTAL OR DIAGONAL TOWER MEMBERS USING PROPOSED STAINLESS STEEL ADAPTERS (DO NOT ATTACH TO TOWER LEG).



1 DETAILED SITE PLAN

SCALE: 1" = 10'



SCALE: 1"=10' (11X17)  
1"=5' (22X34)



**TOWER ENGINEERING PROFESSIONALS**  
326 TRYON ROAD  
RALEIGH, NC 27603-3530  
OFFICE: (919) 661-6351  
www.tepgroup.net  
FL COA#: 31011

ATC SITE NUMBER:

**412243**

ATC SITE NAME:

**LAKE CITY FL SQA**

VERIZON WIRELESS SITE NAME:

**PHILLIPS LAKE CITY**

SITE ADDRESS:

233 N W RANCH COURT

LAKE CITY, FL 32055-8079

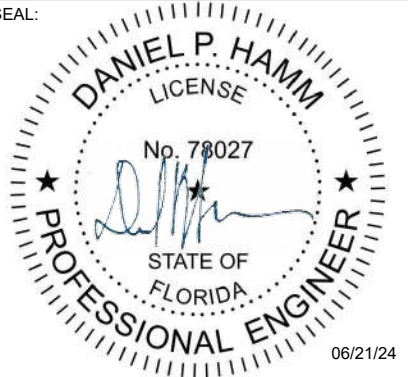
| REV.     | DESCRIPTION       | BY  | DATE     |
|----------|-------------------|-----|----------|
| <b>A</b> | PRELIMINARY       | SAS | 05/28/24 |
| <b>B</b> | 90% CONSTRUCTION  | KAG | 06/14/24 |
| <b>0</b> | 100% CONSTRUCTION | PAP | 06/21/24 |
|          |                   |     |          |
|          |                   |     |          |

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SEAL:



|                |                    |
|----------------|--------------------|
| DATE DRAWN:    | 06/21/24           |
| ATC JOB NO:    | 14857598           |
| CUSTOMER NAME: | PHILLIPS LAKE CITY |
| CUSTOMER ID:   | 131313             |

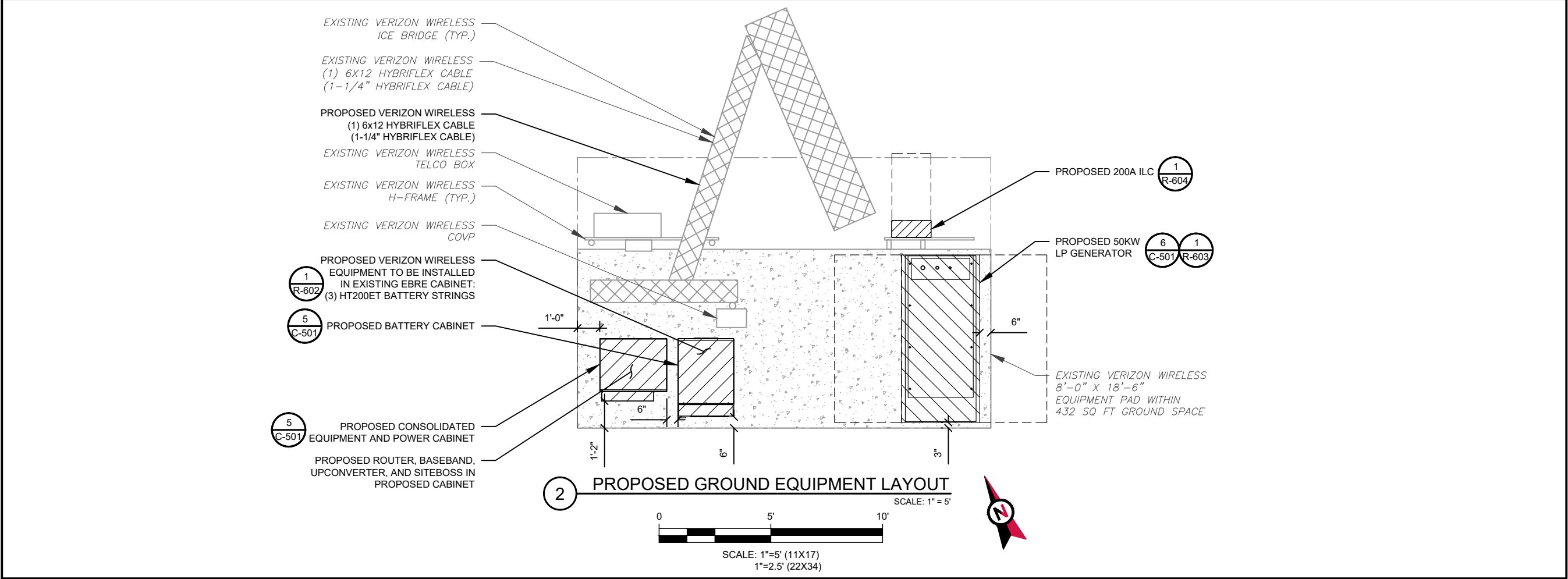
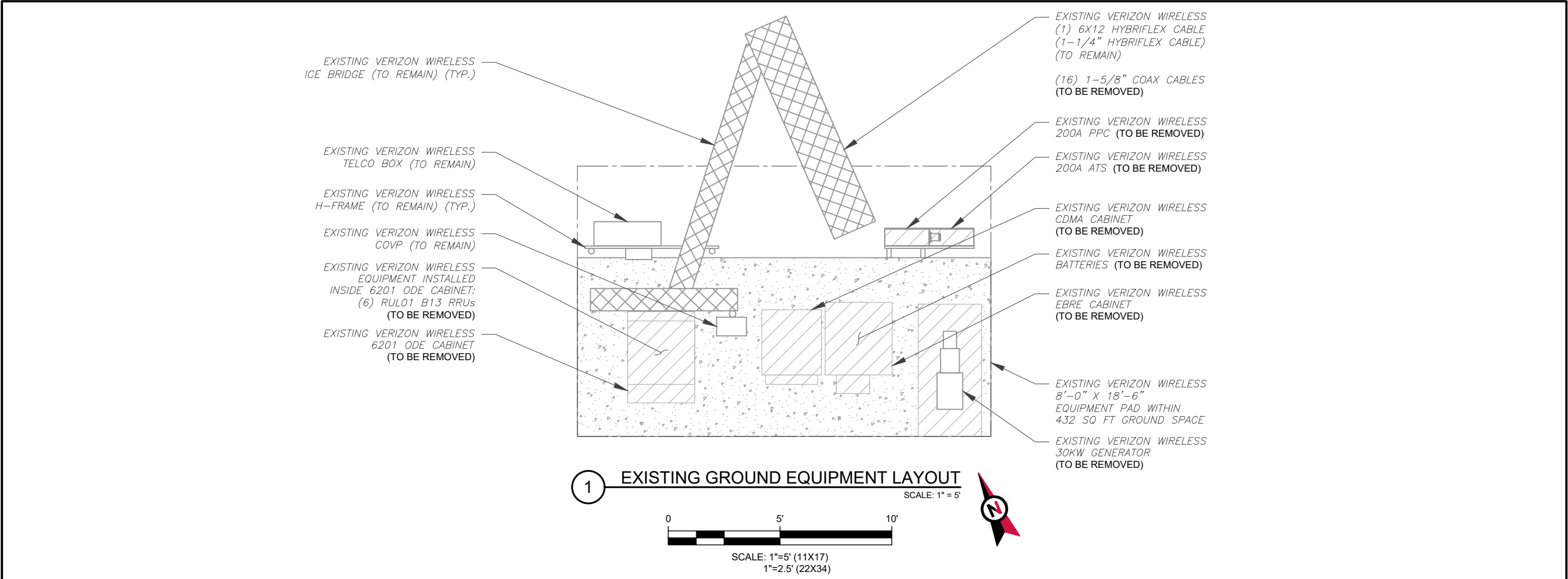
DETAILED SITE PLAN

SHEET NUMBER:

**C-101**

REVISION:

**0**



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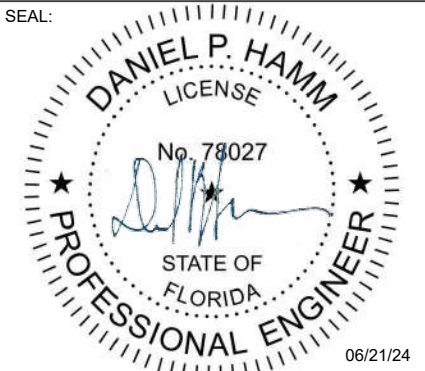
ATC SITE NUMBER:  
**412243**  
ATC SITE NAME:  
**LAKE CITY FL SQA**  
VERIZON WIRELESS SITE NAME:  
**PHILLIPS LAKE CITY**  
SITE ADDRESS:  
233 N W RANCH COURT  
LAKE CITY, FL 32055-8079

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| <b>0</b> | 100% CONSTRUCTION | PAP | 06/21/24 |
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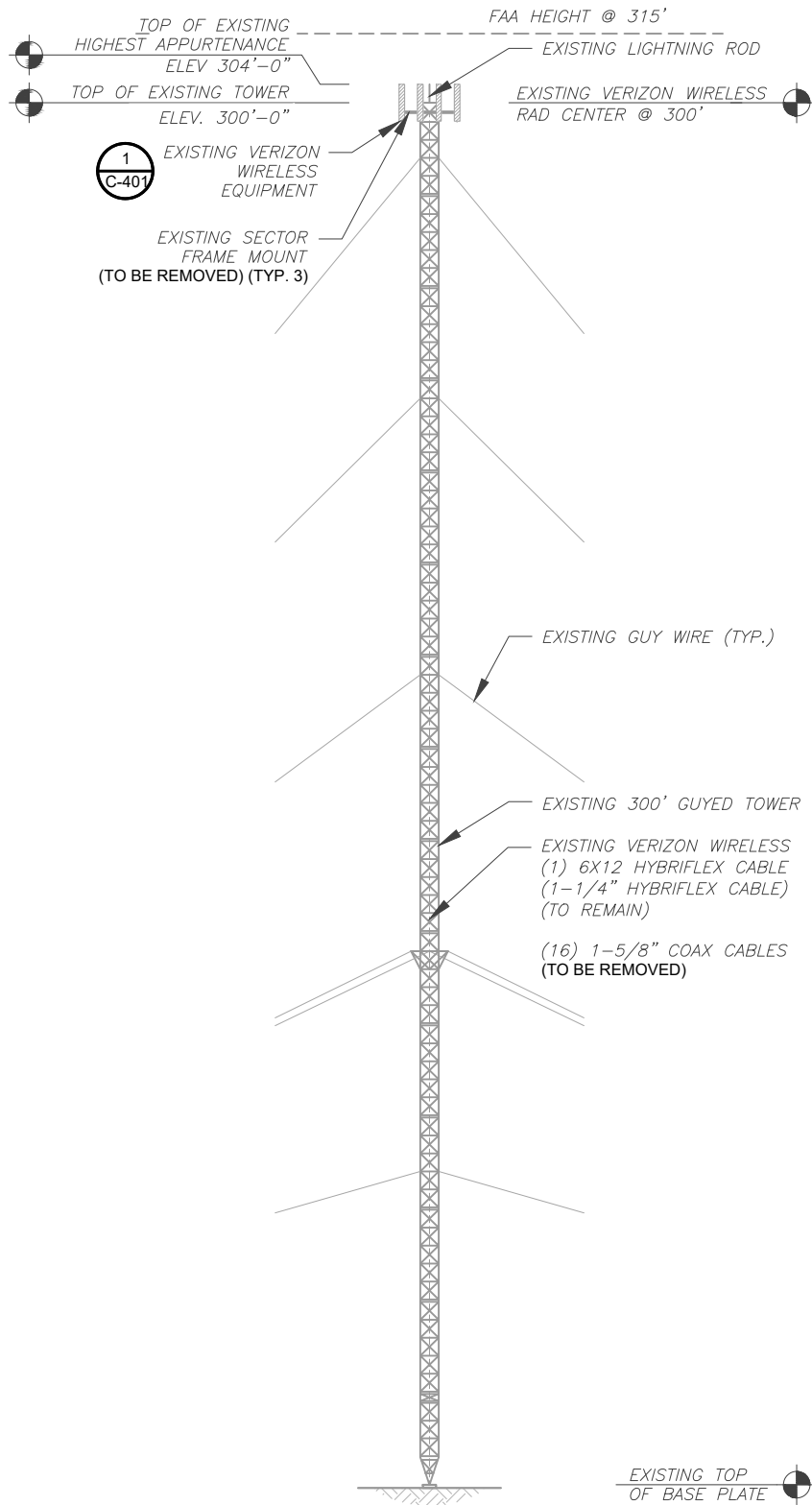
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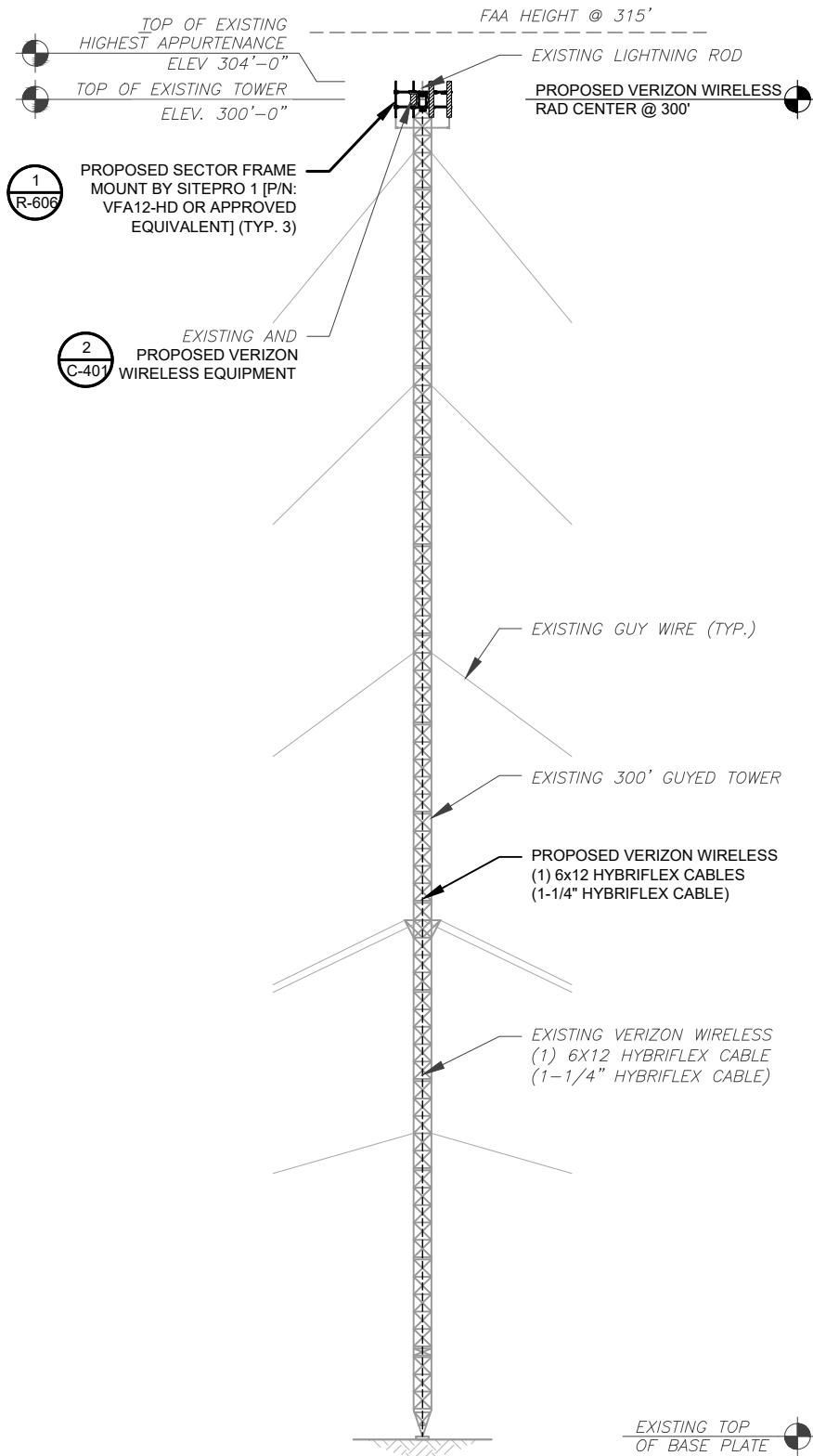
|                |                    |
|----------------|--------------------|
| DATE DRAWN:    | 06/21/24           |
| ATC JOB NO:    | 14857598           |
| CUSTOMER NAME: | PHILLIPS LAKE CITY |
| CUSTOMER ID:   | 131313             |

**DETAILED EQUIPMENT LAYOUT**

|                               |                       |
|-------------------------------|-----------------------|
| SHEET NUMBER:<br><b>C-102</b> | REVISION:<br><b>0</b> |
|-------------------------------|-----------------------|



1 EXISTING TOWER ELEVATION  
SCALE: N.T.S.



2 PROPOSED TOWER ELEVATION  
SCALE: N.T.S.

PER MOUNT ANALYSIS COMPLETED BY COLLIERS ENGINEERING AND DESIGN, DATED 17 MAY, 2024. THE EXISTING MOUNT CAN NOT ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT REPLACEMENT PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.

ATC IS CURRENTLY FILED FOR FAA HEIGHT HIGHER THAN THE TOP OF TOWER.

- TOWER NOTES:**
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE PROJECT MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS.
  - WHERE APPLICABLE, ALL NEW ANTENNAS, EQUIPMENT, MOUNTS, CABLING, ETC. SHALL BE PAINTED/SOCKED TO MATCH EXISTING EQUIPMENT IN ACCORDANCE WITH FAA, JURISDICTION, AND/OR OTHER LOCAL REQUIREMENTS.
  - ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. WHERE POSSIBLE UTILIZE EXISTING CABLE SUPPORT STRUCTURES AS PROVIDED FOR CARRIER TO ADEQUATELY SECURE CABLES, USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER. OTHERWISE, ATTACH CABLES TO HORIZONTAL OR DIAGONAL TOWER MEMBERS USING PROPOSED STAINLESS STEEL ADAPTERS (DO NOT ATTACH TO TOWER LEG).
  - TOWER ELEVATION DEPICTION MAY NOT REFLECT ALL EQUIPMENT INCLUDED IN STRUCTURAL ANALYSIS. REFER TO STRUCTURAL ANALYSIS FOR FULL TOWER LOADING.

**AMERICAN TOWER**

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FL COA#: 31011

ATC SITE NUMBER:  
**412243**

ATC SITE NAME:  
**LAKE CITY FL SQA**

VERIZON WIRELESS SITE NAME:  
**PHILLIPS LAKE CITY**

SITE ADDRESS:  
233 N W RANCH COURT  
LAKE CITY, FL 32055-8079

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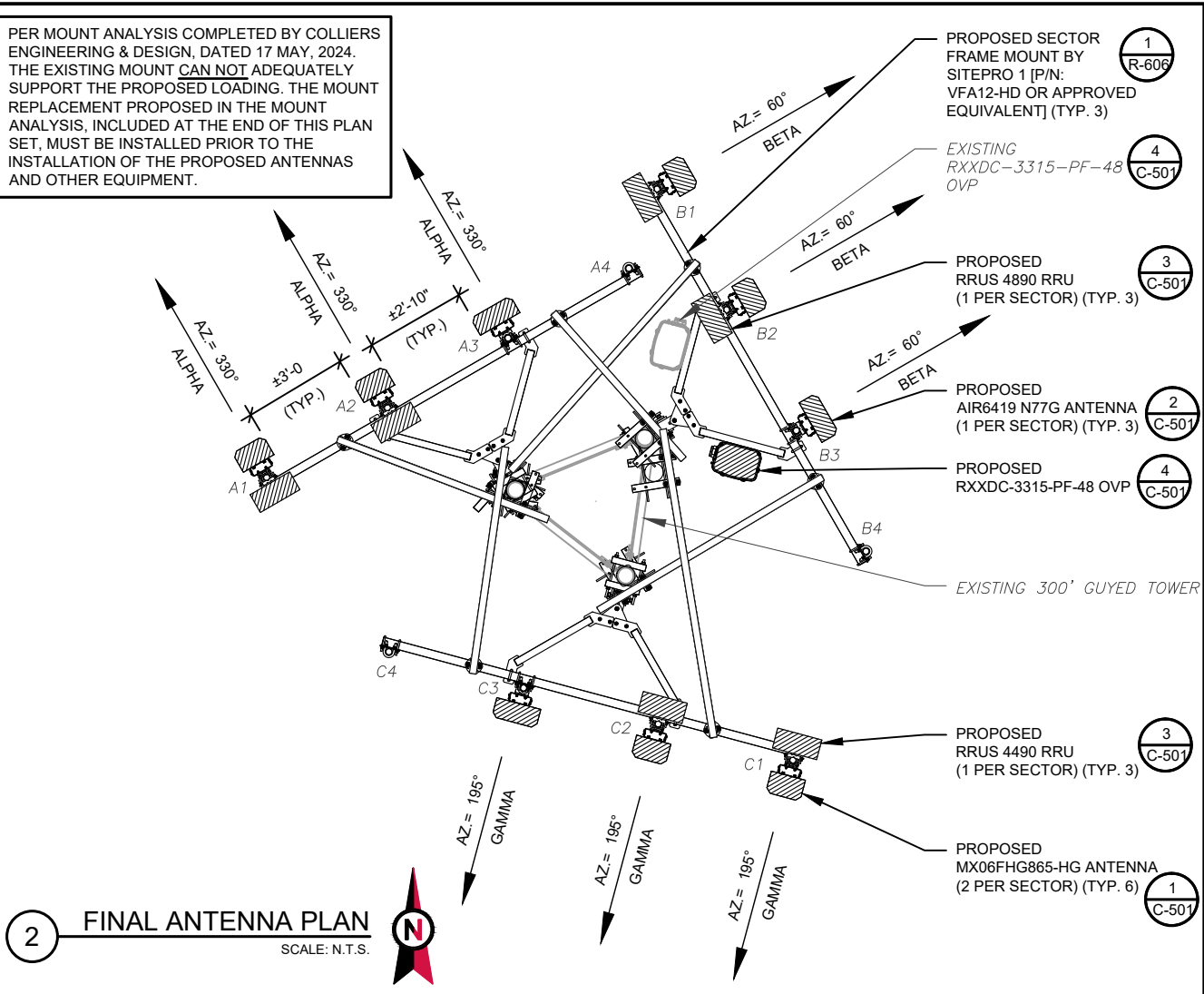
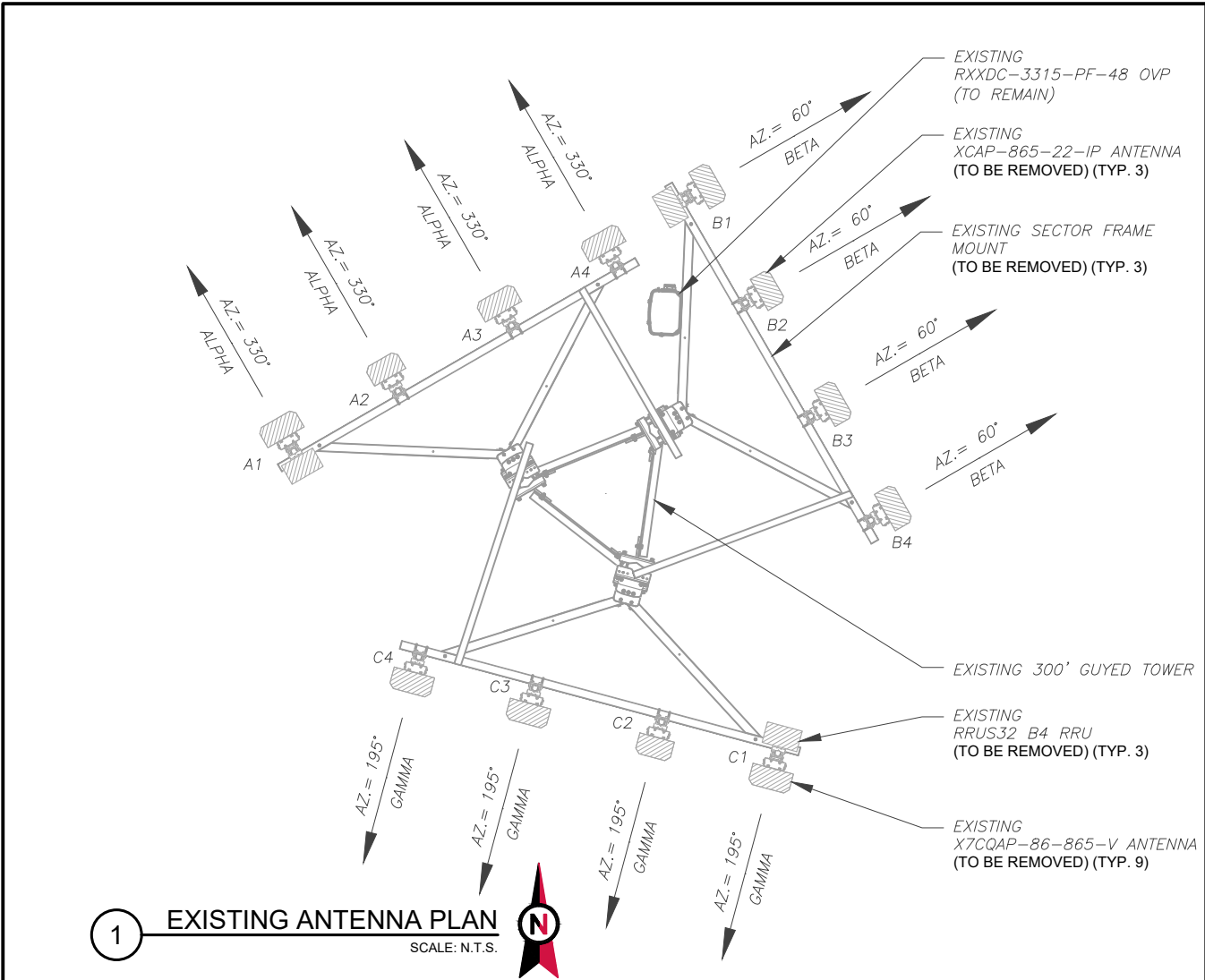
06/21/24

|                |                    |
|----------------|--------------------|
| DATE DRAWN:    | 06/21/24           |
| ATC JOB NO:    | 14857598           |
| CUSTOMER NAME: | PHILLIPS LAKE CITY |
| CUSTOMER ID:   | 131313             |

**TOWER ELEVATION**

|                               |                       |
|-------------------------------|-----------------------|
| SHEET NUMBER:<br><b>C-201</b> | REVISION:<br><b>0</b> |
|-------------------------------|-----------------------|





| EXISTING ANTENNA SCHEDULE |      |      |                 |                     |                 |                  |        |                                    |        |
|---------------------------|------|------|-----------------|---------------------|-----------------|------------------|--------|------------------------------------|--------|
| LOCATION                  |      |      | ANTENNA SUMMARY |                     |                 |                  |        | NON ANTENNA SUMMARY                |        |
| SECTOR                    | RAD  | AZ   | POS             | ANTENNA             | BAND            | MECH/ELEC D-TILT | STATUS | ADDITIONAL TOWER MOUNTED EQUIPMENT | STATUS |
| ALPHA                     | 300' | 330° | A1              | (1) X7CQAP-86-865-V | LTE 700/LTE AWS | *                | RMV    | (1) RRUS32 B4                      | RMV    |
|                           |      |      | A2              | (1) X7CAP-865-22-IP | -               | *                | RMV    | -                                  | -      |
|                           |      |      | A3              | (1) X7CQAP-86-865-V | LTE 700/LTE AWS | *                | RMV    | -                                  | -      |
|                           |      |      | A4              | (1) X7CQAP-86-865-V | LTE 700/LTE AWS | *                | RMV    | -                                  | -      |
| BETA                      | 300' | 60°  | B1              | (1) X7CQAP-86-865-V | LTE 700/LTE AWS | *                | RMV    | (1) RRUS32 B4                      | RMV    |
|                           |      |      | B2              | (1) X7CAP-865-22-IP | -               | *                | RMV    | -                                  | -      |
|                           |      |      | B3              | (1) X7CQAP-86-865-V | LTE 700/LTE AWS | *                | RMV    | -                                  | -      |
|                           |      |      | B4              | (1) X7CQAP-86-865-V | LTE 700/LTE AWS | *                | RMV    | -                                  | -      |
| GAMMA                     | 300' | 195° | C1              | (1) X7CQAP-86-865-V | LTE 700/LTE AWS | *                | RMV    | (1) RRUS32 B4                      | RMV    |
|                           |      |      | C2              | (1) X7CAP-865-22-IP | -               | *                | RMV    | -                                  | -      |
|                           |      |      | C3              | (1) X7CQAP-86-865-V | LTE 700/LTE AWS | *                | RMV    | -                                  | -      |
|                           |      |      | C4              | (1) X7CQAP-86-865-V | LTE 700/LTE AWS | *                | RMV    | -                                  | -      |

\* - SEE RFDS FOR VALUES

| NOTES   |
|---|
| 1. CONFIRM WITH VERIZON REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG). GC TO CAP ALL UNUSED PORTS. |
| 2. CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.   |
| 3. TEP DID NOT VERIFY THE EXISTING LOADING. LOADING DATA PROVIDED BY ATC AND VERIZON.   |
| STATUS ABBREVIATIONS  |
| RMV: TO BE REMOVED  |
| RMN: TO REMAIN  |
| REL: TO BE RELOCATED  |
| ADD: TO BE ADDED  |
| CABLE LENGTHS FOR JUMPERS   |
| JUNCTION BOX TO RRU: 15'  |
| RRU TO ANTENNA: 10'   |

| FINAL ANTENNA SCHEDULE |      |      |                 |               |   |                  |        |                                    |        |
|------------------------|------|------|-----------------|---------------|---|------------------|--------|------------------------------------|--------|
| LOCATION               |      |      | ANTENNA SUMMARY |               |   |                  |        | NON ANTENNA SUMMARY                |        |
| SECTOR                 | RAD  | AZ   | POS             | ANTENNA       | BAND  | MECH/ELEC D-TILT | STATUS | ADDITIONAL TOWER MOUNTED EQUIPMENT | STATUS |
| ALPHA                  | 300' | 330° | A1              | MX06FHG865-HG | LTE 700/ 5G 850/LTE 850/ LTE 1900/LTE AWS/ LTE AWS3 | *                | ADD    | (1) RRUS 4490                      | ADD    |
|                        |      |      | A2              | MX06FHG865-HG | LTE 700/ 5G 850/LTE 850/ LTE 1900/LTE AWS/ LTE AWS3 | *                | ADD    | (1) RRUS 4890                      | ADD    |
|                        |      |      | A3              | AIR6419 N77G  | 5G L-SUB6   | *                | ADD    | -                                  | -      |
|                        |      |      | A4              | -             | -   | -                | -      | -                                  | -      |
| BETA                   | 300' | 60°  | B1              | MX06FHG865-HG | LTE 700/ 5G 850/LTE 850/ LTE 1900/LTE AWS/ LTE AWS3 | *                | ADD    | (1) RRUS 4490                      | ADD    |
|                        |      |      | B2              | MX06FHG865-HG | LTE 700/ 5G 850/LTE 850/ LTE 1900/LTE AWS/ LTE AWS3 | *                | ADD    | (1) RRUS 4890                      | ADD    |
|                        |      |      | B3              | AIR6419 N77G  | 5G L-SUB6   | *                | ADD    | -                                  | -      |
|                        |      |      | B4              | -             | -   | -                | -      | -                                  | -      |
| GAMMA                  | 300' | 195° | C1              | MX06FHG865-HG | LTE 700/ 5G 850/LTE 850/ LTE 1900/LTE AWS/ LTE AWS3 | *                | ADD    | (1) RRUS 4490                      | ADD    |
|                        |      |      | C2              | MX06FHG865-HG | LTE 700/ 5G 850/LTE 850/ LTE 1900/LTE AWS/ LTE AWS3 | *                | ADD    | (1) RRUS 4890                      | ADD    |
|                        |      |      | C3              | AIR6419 N77G  | 5G L-SUB6   | *                | ADD    | -                                  | -      |
|                        |      |      | C4              | -             | -   | -                | -      | -                                  | -      |

\* - SEE RFDS FOR VALUES

| EXISTING FIBER DISTRIBUTION/OVP BOX |        | EXISTING CABLING SUMMARY |                       |        |
|-------------------------------------|--------|--------------------------|-----------------------|--------|
| MODEL NUMBER                        | STATUS | COAX                     | HYBRIFLEX             | STATUS |
| (1) RXXDC-3315-PF-48                | RMN    | -                        | (1) 6X12 [(1) 1-1/4"] | RMN    |
| -                                   | -      | (16) 1-5/8"              | -                     | RMV    |

### 3 EQUIPMENT SCHEDULES

| FINAL FIBER DISTRIBUTION / OVP BOX |        | FINAL CABLING SUMMARY |                       |        |
|------------------------------------|--------|-----------------------|-----------------------|--------|
| MODEL NUMBER                       | STATUS | COAX                  | HYBRIFLEX             | STATUS |
| (1) RXXDC-3315-PF-48               | RMN    | -                     | (1) 6X12 [(1) 1-1/4"] | RMN    |
| (1) RXXDC-3315-PF-48               | ADD    | -                     | (1) 6x12 [(1) 1-1/4"] | ADD    |

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ATC SITE NUMBER:  
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| REV. | DESCRIPTION       | BY  | DATE     |
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| B    | 90% CONSTRUCTION  | KAG | 06/14/24 |
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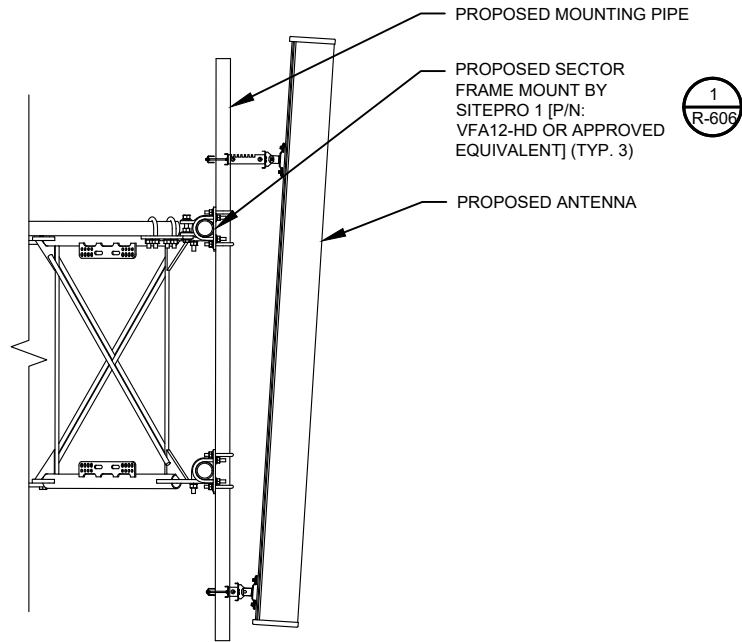
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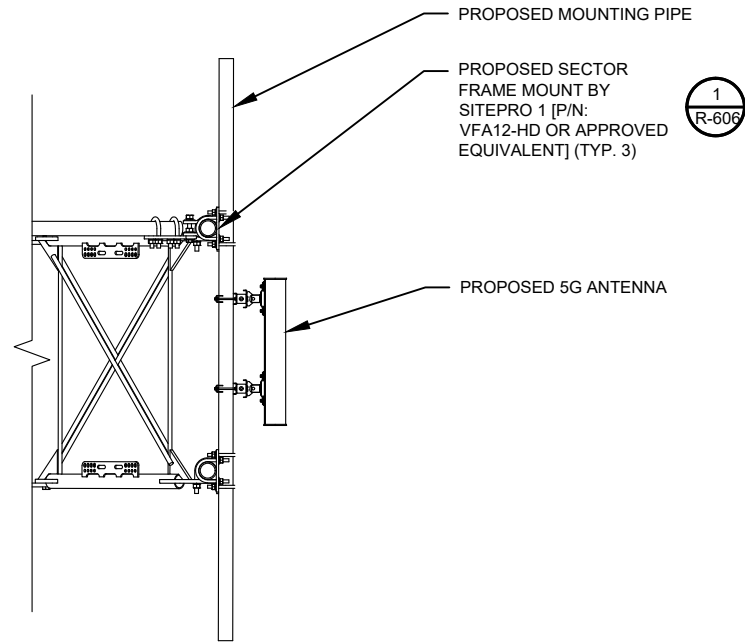
|                |                    |
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| CUSTOMER ID:   | 131313             |

ANTENNA INFORMATION & SCHEDULE

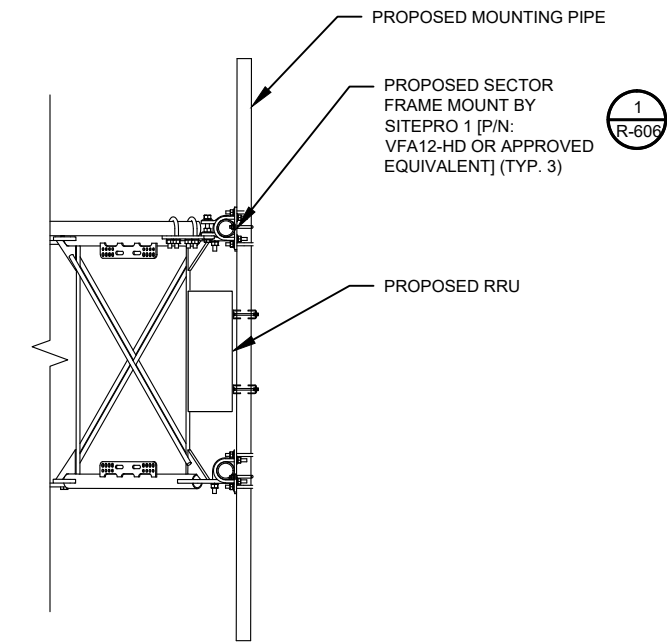
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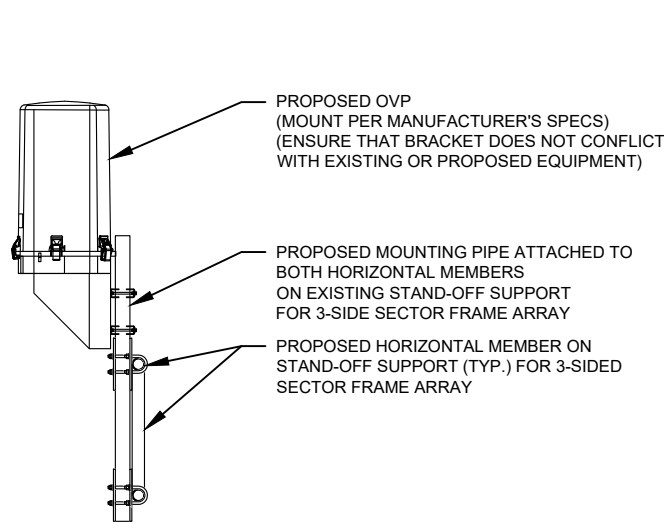
1 PROPOSED ANTENNA MOUNTING DETAIL  
SCALE: N.T.S.



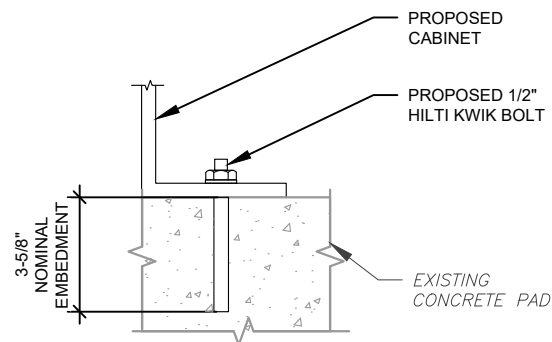
2 PROPOSED 5G ANTENNA MOUNTING DETAIL  
SCALE: N.T.S.



3 PROPOSED RRU MOUNTING DETAIL  
SCALE: N.T.S.

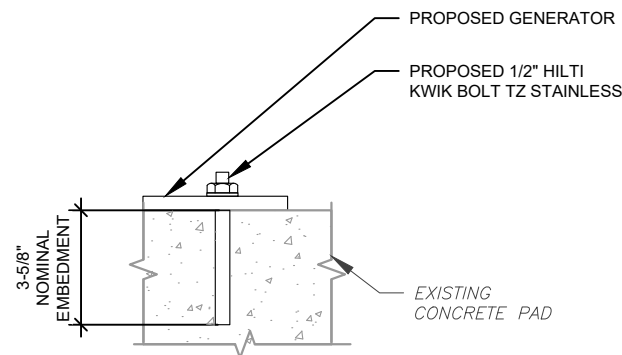


4 PROPOSED OVP MOUNTING DETAIL  
SCALE: N.T.S.



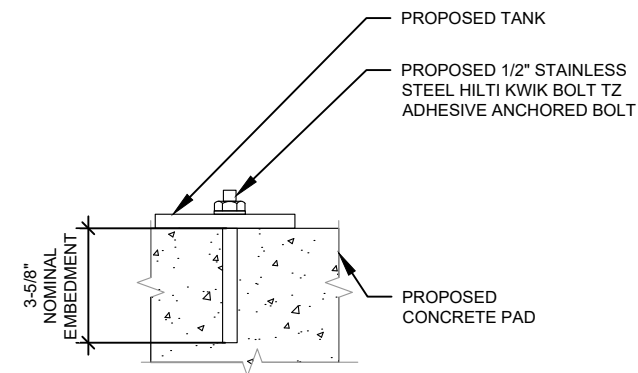
NOTE:  
INSTALL HILTI KWIK BOLT ANCHORS STRICTLY PER INSTALLATION INSTRUCTIONS INCLUDED WITH PRODUCT OR FOUND ONLINE AT [WWW.US.HILTI.COM](http://WWW.US.HILTI.COM). PROPER INSTALLATION IS CRITICAL FOR FULL PERFORMANCE.

5 CABINET ATTACHMENT DETAIL  
SCALE: NOT TO SCALE



NOTE:  
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6 GENERATOR ATTACHMENT DETAIL  
SCALE: NOT TO SCALE




NOTE:  
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7 TANK ATTACHMENT DETAIL  
SCALE: NOT TO SCALE



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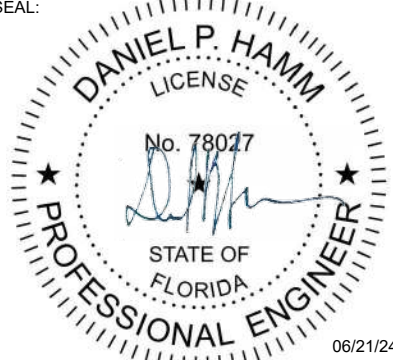
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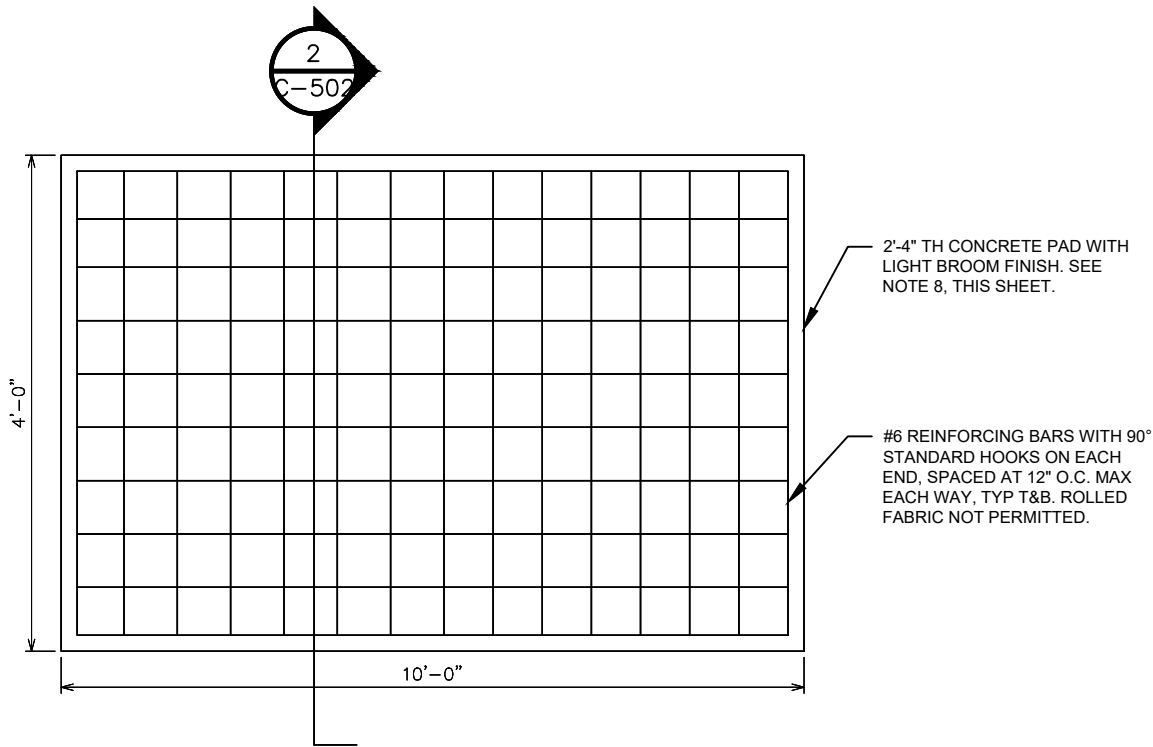


06/21/24

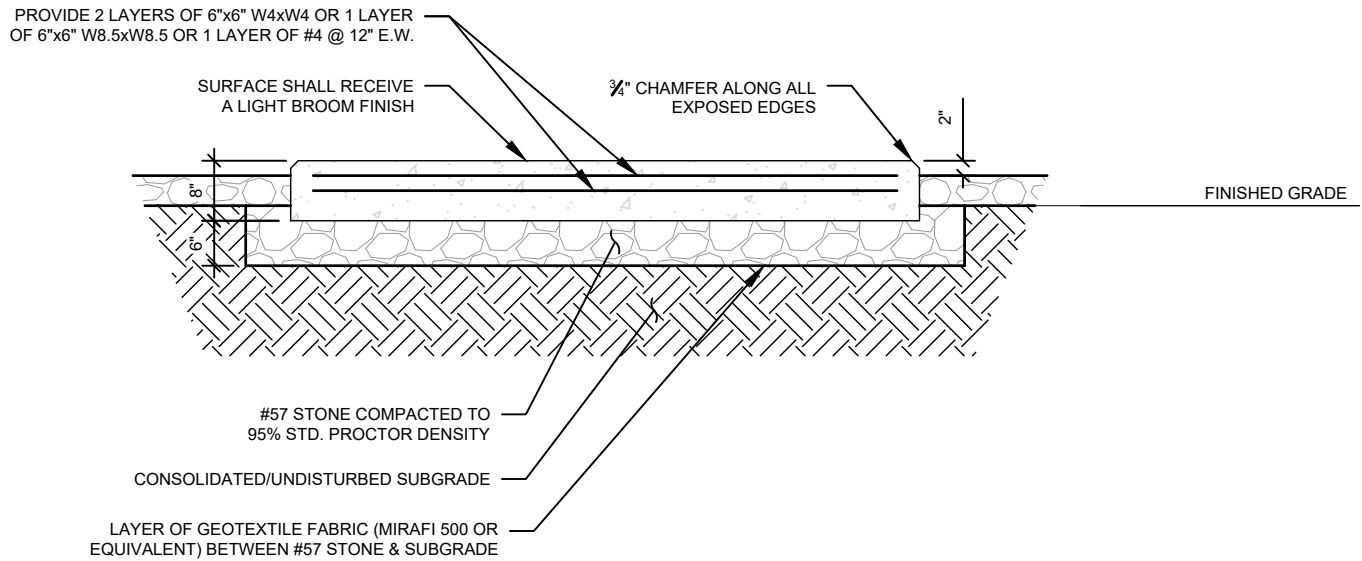
|   |                    |
|---|--------------------|
|  |                    |
| DATE DRAWN:   | 06/21/24           |
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| CUSTOMER NAME:  | PHILLIPS LAKE CITY |
| CUSTOMER ID:  | 131313             |

|                               |                       |
|-------------------------------|-----------------------|
| CONSTRUCTION DETAILS          |                       |
| SHEET NUMBER:<br><b>C-501</b> | REVISION:<br><b>0</b> |





1 PROPOSED CONCRETE PAD FOUNDATION DETAIL  
SCALE: N.T.S.



2 PROPOSED CONCRETE PAD SECTION  
SCALE: N.T.S.

FOUNDATION NOTES:

- FOUNDATION DESIGN BASED ON 2,000 PSF SOIL BEARING CAPACITY.
- CONCRETE SHALL BE 4,000 PSI @ 28 DAYS.
- REINFORCING STEEL  $F_y = 60,000$  PSI.
- ALL BACKFILL SHALL BE THOROUGHLY COMPACTED TO A MINIMUM OF 95% DENSITY USING THE MODIFIED PROCTOR METHOD.
- SURFACE OF FINISHED SLAB SHALL BE LEVEL AND FLAT WITHIN  $\frac{1}{4}$ ".
- CONTRACTOR SHALL VERIFY WITH MANUFACTURER ACTUAL DIMENSIONS OF EQUIPMENT PRIOR TO LAYING OUT FOUNDATION.
- ALL CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH ACI 318-14.
- ANCHOR GENERATOR TO PROPOSED PAD PER MANUFACTURER SPECIFICATIONS.



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326 TRYON ROAD  
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OFFICE: (919) 661-6351  
www.tepgroup.net  
FL COA#: 31011

ATC SITE NUMBER:  
412243  
ATC SITE NAME:  
LAKE CITY FL SQA  
VERIZON WIRELESS SITE NAME:  
PHILLIPS LAKE CITY  
SITE ADDRESS:  
233 N W RANCH COURT  
LAKE CITY, FL 32055-8079

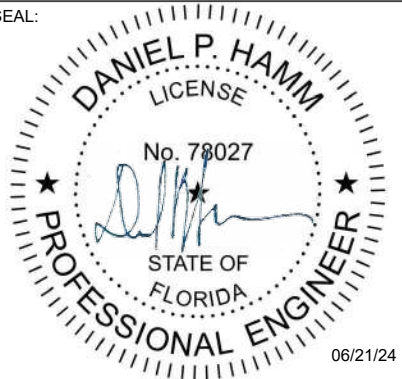
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|------|-------------------|-----|----------|
| A    | PRELIMINARY       | SAS | 05/28/24 |
| B    | 90% CONSTRUCTION  | KAG | 06/14/24 |
| D    | 100% CONSTRUCTION | PAP | 06/21/24 |
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|      |                   |     |          |

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SEAL:



|                |                    |
|----------------|--------------------|
| DATE DRAWN:    | 06/21/24           |
| ATC JOB NO:    | 14857598           |
| CUSTOMER NAME: | PHILLIPS LAKE CITY |
| CUSTOMER ID:   | 131313             |

CONSTRUCTION  
DETAILS

|               |           |
|---------------|-----------|
| SHEET NUMBER: | REVISION: |
| C-502         | 0         |

NOTES:

ALL CONDUCTORS ARE TYPE THWN (75%) COPPER.

MAXIMUM LENGTH OF RUN FOR RECTIFIER CIRCUITS IS 50–FT.

INTERSECT/GENERAC INTEGRATED LOAD CENTER INCLUDES 200A MAIN DISCONNECT AND TRANSFER SWITCH FOR PORTABLE OR PERMANENT GENERATOR.

RECTIFIER LOADS ARE CONSIDERED TO BE NON–CONTINUOUS.

IF ADDITIONAL FUTURE LOADS ARE ADDED WHICH CAUSE TOTAL DEMAND TO EXCEED GENERATOR BREAKER SIZE, BACKUP POWER SYSTEM SHALL BE EVALUATED AND UPGRADED AS NECESSARY.

| 200A 120/240V 1Ø 3W VERIZON POWER PANEL SCHEDULE |                            |      |      |        |       |        |       |   |                            |      |                      |              |  |
|--|----------------------------|------|------|--------|-------|--------|-------|---|----------------------------|------|----------------------|--------------|--|
| LOAD SERVED                                      | UNCOMPENSATED VOLT AMPERES |      | TRIP | CKT #  | PHASE |        | CKT # | TRIP  | UNCOMPENSATED VOLT AMPERES |      | LOAD SERVED          |              |  |
|  | L1                         | L2   |      |        | L1    | L2     |       |   |                            |      |                      |              |  |
| ***RECTIFIER                                     | 1140                       |      | 30A  | 1      | A     |        | 2     | 30A   | 1140                       |      | ***RECTIFIER         |              |  |
|  |                            | 1140 |      | 3      | B     |        | 4     |   |                            | 1140 |                      |              |  |
| ***RECTIFIER                                     | 1140                       |      | 30A  | 5      | A     |        | 6     | 30A   | 1140                       |      | ***RECTIFIER         |              |  |
|  |                            | 1140 |      | 7      | B     |        | 8     |   |                            | 1140 |                      |              |  |
| ***RECTIFIER                                     | 1140                       |      | 30A  | 9      | A     |        | 10    | 30A   | 0                          |      | FUTURE RECTIFIER     |              |  |
|  |                            | 1140 |      | 11     | B     |        | 12    |   |                            | 0    |                      |              |  |
| ***RECTIFIER                                     | 1140                       |      | 30A  | 13     | A     |        | 14    | —   | —                          |      | SPARE                |              |  |
|  |                            | 1140 |      | 15     | B     |        | 16    | —   | —                          |      |                      |              |  |
| **BTS  | 4000                       |      | 100A | 17     | A     |        | 18    | —   | —                          |      | SPARE                |              |  |
|  |                            | 4000 |      | 19     | B     |        | 20    | 20A   |                            | 180  |                      | TELCO RECEPT |  |
| SPACE  | —                          |      | —    | 21     | A     |        | 22    | 20A   | 180                        |      | EEN RECEPT           |              |  |
| SPACE  |                            | —    | —    | 23     | B     |        | 24    | 20A   |                            | 1000 | *GEN BATTERY CHARGER |              |  |
| SPACE  | —                          |      | —    | 25     | A     |        | 26    | 20A   | 1500                       |      | GEN BLOCK HEATER     |              |  |
| SPACE  |                            | —    | —    | 27     | B     |        | 28    | —   |                            | —    | SPARE                |              |  |
| SPACE  | —                          |      | —    | 29     | A     |        | 30    | —   | —                          |      | SPARE                |              |  |
| VOLT AMPS  | 8560                       | 8560 |      |        |       |        |       |   | 3960                       | 3460 | VOLT AMPS            |              |  |
| L1 VOLT AMPERES                                  |                            |      |      | 12520  |       | 12020  |       | L2 VOLT AMPERES                                 |                            |      |                      |              |  |
| L1 DEMAND VOLT AMPERES (INCLUDES DEMAND FACTOR)  |                            |      |      | 15650  |       | 15025  |       | L2 DEMAND VOLT AMPERES (INLCUDES DEMAND FACTOR) |                            |      |                      |              |  |
| L1 DEMAND AMPS                                   |                            |      |      | 130.42 |       | 125.21 |       | L2 DEMAND AMPS                                  |                            |      |                      |              |  |
|  |                            |      |      | 130.42 |       | 125.21 |       | MAX DEMAND AMPS                                 |                            |      |                      |              |  |
|  |                            |      |      | 130.42 |       |        |       |   |                            |      |                      |              |  |

\*GEN. BATTERY CHARGED LOAD IS 0 VA DURING GENERATOR OPERATION.

\*\*LOADING VALUES BASED ON INFORMATION PROVIDED BY LOCAL UTILITY COMPANY.

\*\*\*LOADING VALUES BASED ON INFORMATION PROVIDED BY VERIZON WIRELESS.



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FL COA#: 31011

ATC SITE NUMBER:  
412243

ATC SITE NAME:  
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VERIZON WIRELESS SITE NAME:  
PHILLIPS LAKE CITY

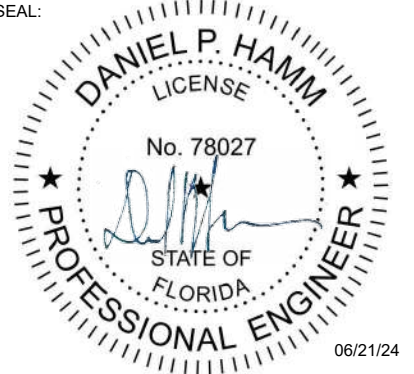
SITE ADDRESS:  
233 N W RANCH COURT  
LAKE CITY, FL 32055-8079

| REV. | DESCRIPTION       | BY  | DATE     |
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| ATC JOB NO:    | 14857598           |
| CUSTOMER NAME: | PHILLIPS LAKE CITY |
| CUSTOMER ID:   | 131313             |

PANEL SCHEDULES

|                        |                |
|------------------------|----------------|
| SHEET NUMBER:<br>E-101 | REVISION:<br>0 |
|------------------------|----------------|



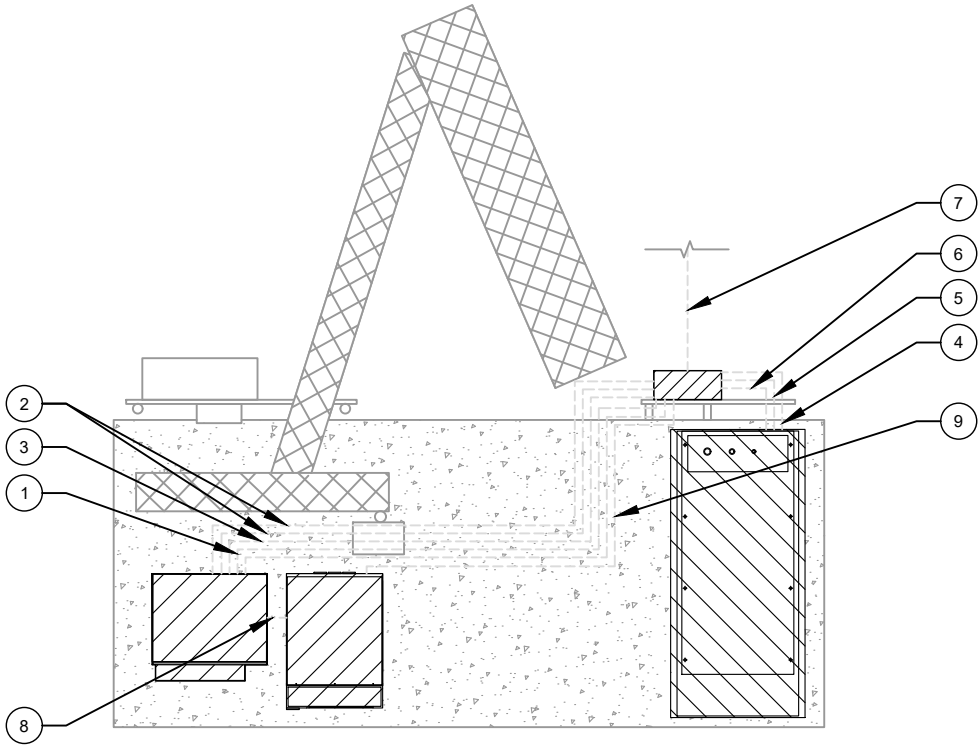


LABEL LIST:

1. (1) 3/4" CONDUIT FOR GFI IN THE NEW CONSOLIDATED EQUIPMENT AND POWER CABINET
2. (2) 2" CONDUITS FOR THE RECTIFIERS IN THE NEW CONSOLIDATED EQUIPMENT AND POWER CABINET
3. (1)-1" CONDUIT FOR GENERATOR AND ILC ALARM FROM ILC TO CONSOLIDATED EQUIPMENT AND POWER CABINET
4. (1)-1" CONDUIT FOR GENERATOR HEATER & BATTERY CHARGER FROM ILC TO GENERATOR
5. (1)-1" CONDUIT FOR ALARM AND CONTROL WIRING FROM ILC TO GENERATOR
6. (1)- 2½" CONDUIT FOR POWER FROM ILC TO GENERATOR
7. (1)-2" CONDUIT FOR POWER FROM SERVICE DISCONNECT/CIRCUIT BREAKER TO ILC
8. (1)-2" CONDUIT FOR BATTERY CABINET FROM CONSOLIDATED EQUIPMENT AND POWER CABINET TO BATTERY CABINET
9. (1)-1" CONDUIT FOR BATTERY CABINET FROM ILC TO BATTERY CABINET. CONTRACTOR TO REUSE CONDUIT AND CONDUIT AND CONDUCTORS IF SUFFICIENTLY SIZED.

NOTES:

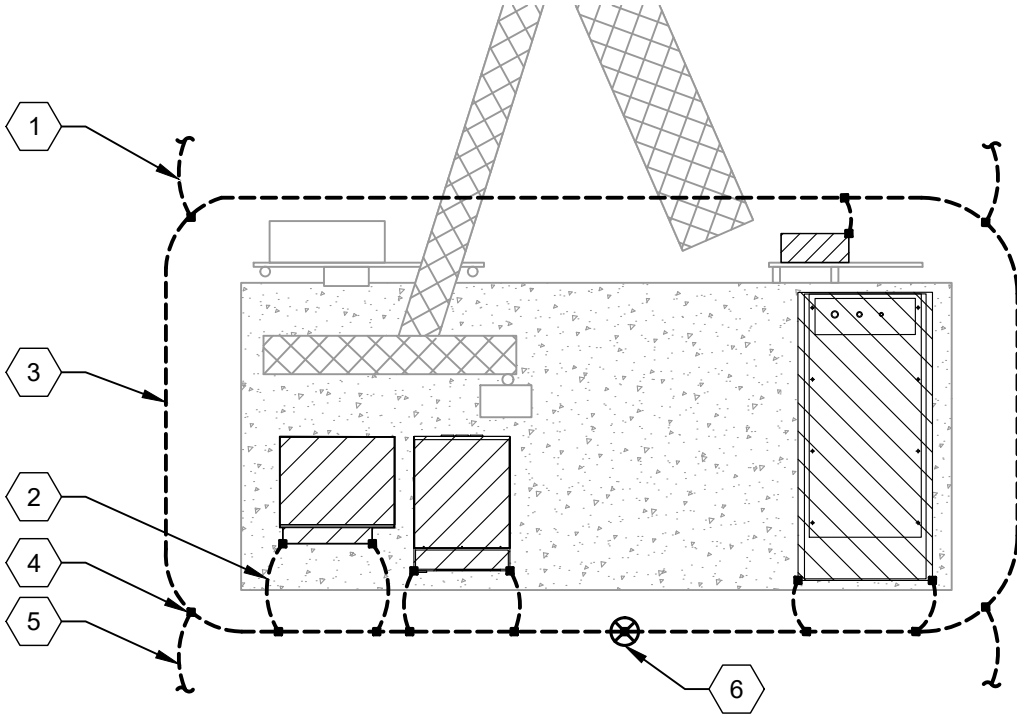
1. POWER AND TELCO CONDUITS RECEIVING CONDUCTORS BY OTHERS TO HAVE PULL ROPES.
2. ALL TELCO CONDUITS ARE TO BE STUBBED IN D-MARC LOCATION.
3. ALL POWER CONDUITS ARE TO BE TERMINATED AT THE METER CENTER.
4. THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES PRIOR TO TRENCHING. ANY DAMAGE CAUSED TO THE EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
5. ALL CONDUITS SHALL BE INSTALLED PRIOR TO FINISH GRADING, GEOFABRIC, AND STONE INSTALLATION.
6. CONTRACTOR SHALL INSTALL SWEEPS AT ALL CONDUIT DIRECTION CHANGES UNLESS NOTED OTHERWISE.
7. RUN CONDUITS FROM ILC TO GENERATOR UNDERGROUND AND STUB UP CONDUITS MINIMUM 6" HIGH INSIDE GENERATOR BASE AND TERMINATE WITH MALE ADAPTER AND THREADED BUSHING.
8. WHEN ALL RRU's ARE GROUND MOUNTED, OMIT OVP's AND RUN FIBER/POWER FROM CONSOLIDATED EQUIPMENT AND POWER CABINET DIRECTLY TO RRU's.



1 POWER ROUTING PLAN  
SCALE: N.T.S.

GROUNDING KEYED NOTES:

- 1 BOND TO TOWER GROUND RING
- 2 GROUNDING ELECTRODE CONDUCTOR PER NEC
- 3 #2 GROUND RING
- 4 GROUNDING ELECTRODE (TYP.)
- 5 BOND TO COMPOUND GROUND RING
- 6 GROUNDING ELECTRODE WITH TEST WELL



2 EQUIPMENT GROUNDING PLAN  
SCALE: N.T.S.



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412243

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LAKE CITY FL SQA

VERIZON WIRELESS SITE NAME:

PHILLIPS LAKE CITY

SITE ADDRESS:

233 N W RANCH COURT

LAKE CITY, FL 32055-8079

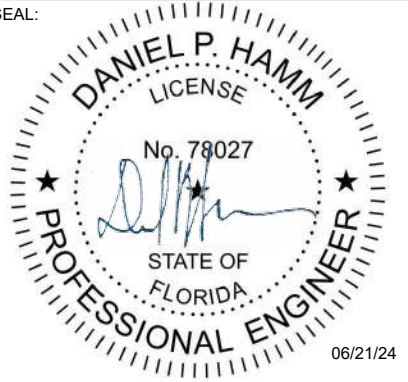
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| CUSTOMER NAME: | PHILLIPS LAKE CITY |
| CUSTOMER ID:   | 131313             |

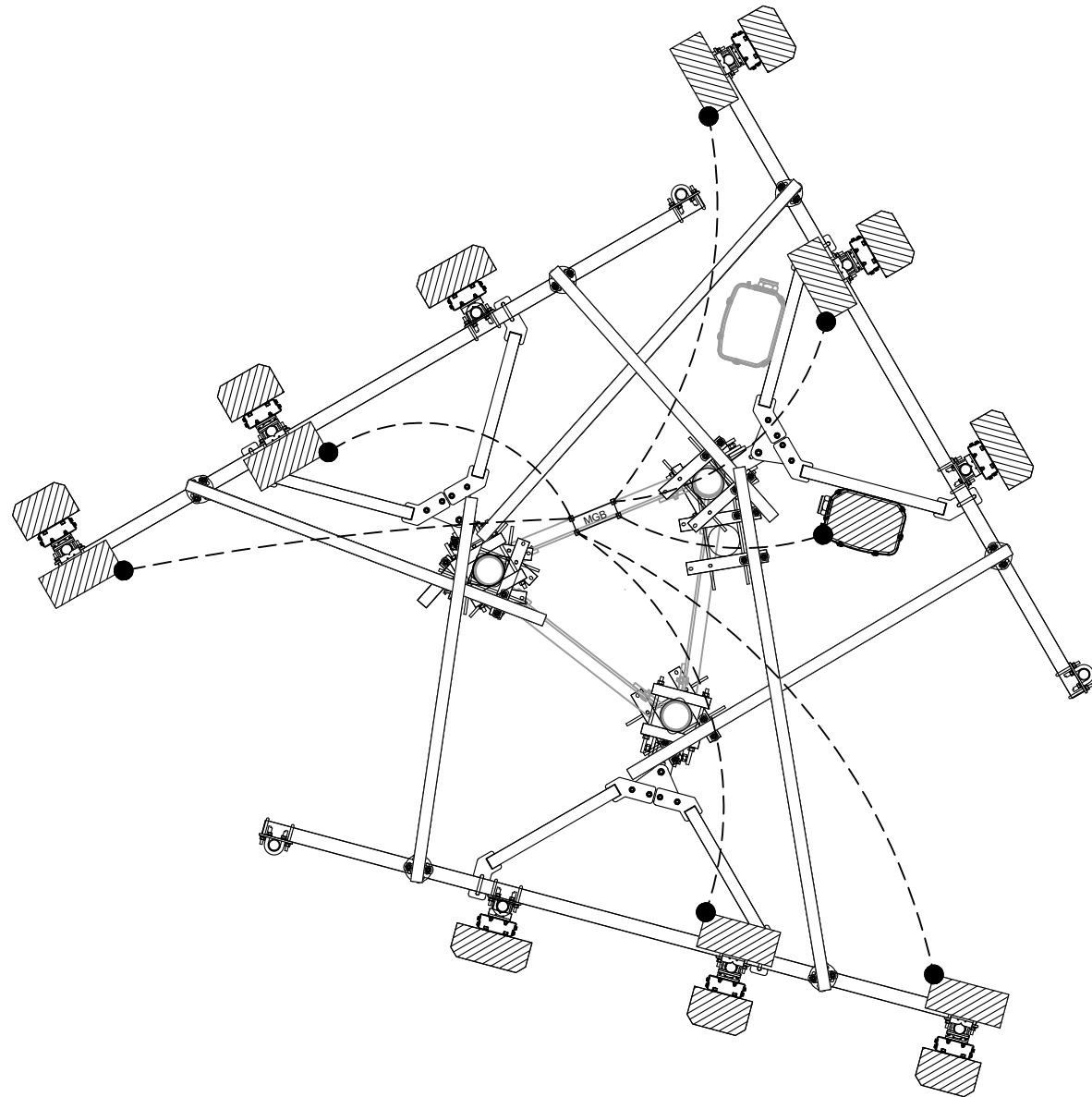
GROUNDING PLAN &  
SCHEMATIC

SHEET NUMBER:

E-103

REVISION:

0



3

ANTENNA GROUNDING PLAN

SCALE: N.T.S.



AMERICAN TOWER

TOWER ENGINEERING PROFESSIONALS  
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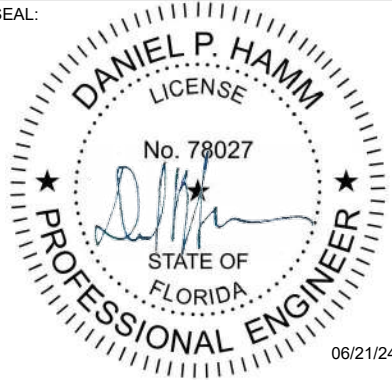
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SEAL:



verizon

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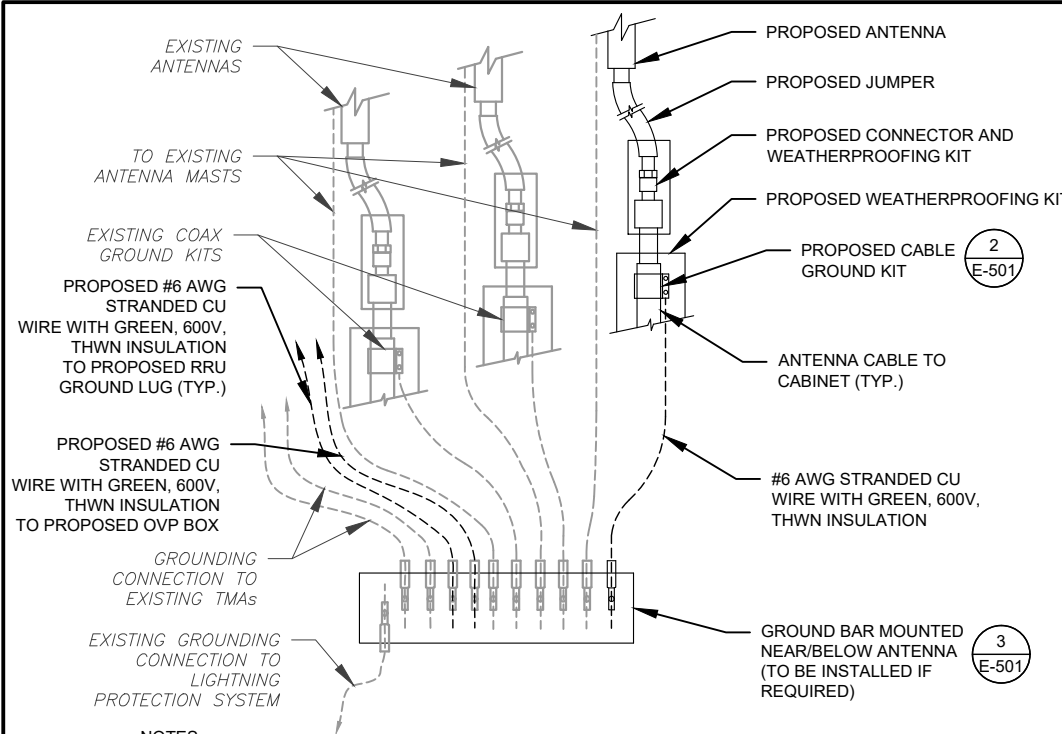
GROUNDING PLAN &  
SCHEMATIC

SHEET NUMBER:

E-104

REVISION:

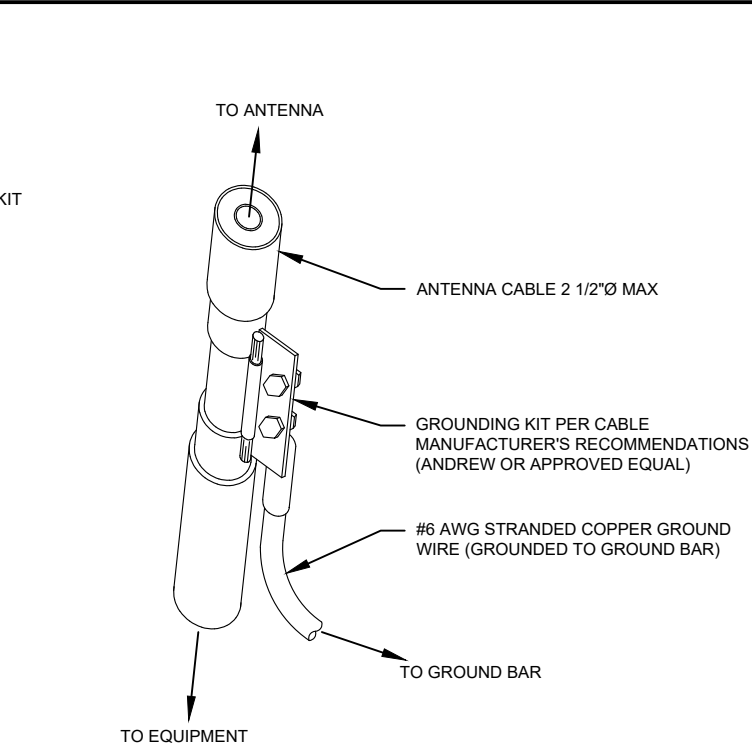
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NOTES:

- THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
- SITE GROUNDING SHALL COMPLY WITH VERIZON GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH VERIZON GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN.

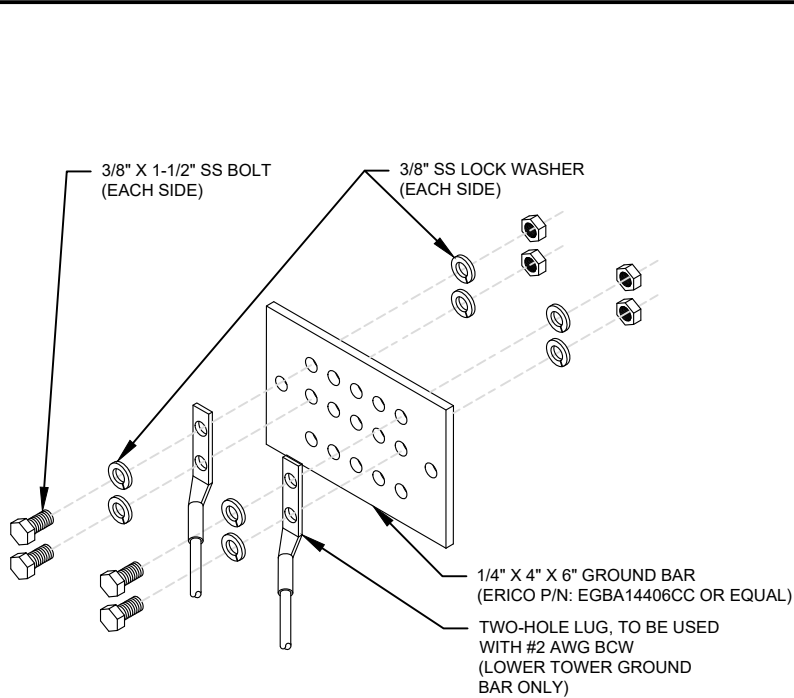
1 TYPICAL ANTENNA GROUNDING DIAGRAM  
SCALE: N.T.S.



GROUND KIT NOTES:

- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
- CONTRACTOR SHALL PROVIDE WEATHERPROOFING KIT (ANDREW PART NUMBER 221213) AND INSTALL/TAPE PER MANUFACTURER'S SPECIFICATIONS.

2 CABLE GROUND KIT CONNECTION DETAIL  
SCALE: N.T.S.



GROUND BAR NOTES:

- GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
- GROUND BAR TO BE BONDED DIRECTLY TO TOWER.

3 TOWER GROUND BAR DETAIL  
SCALE: N.T.S.



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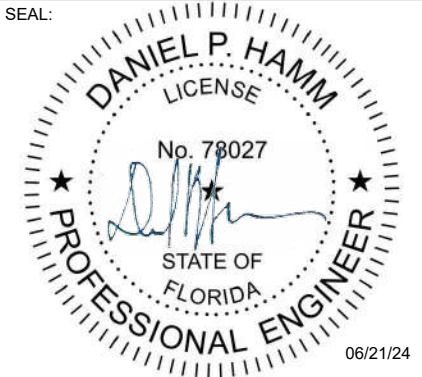
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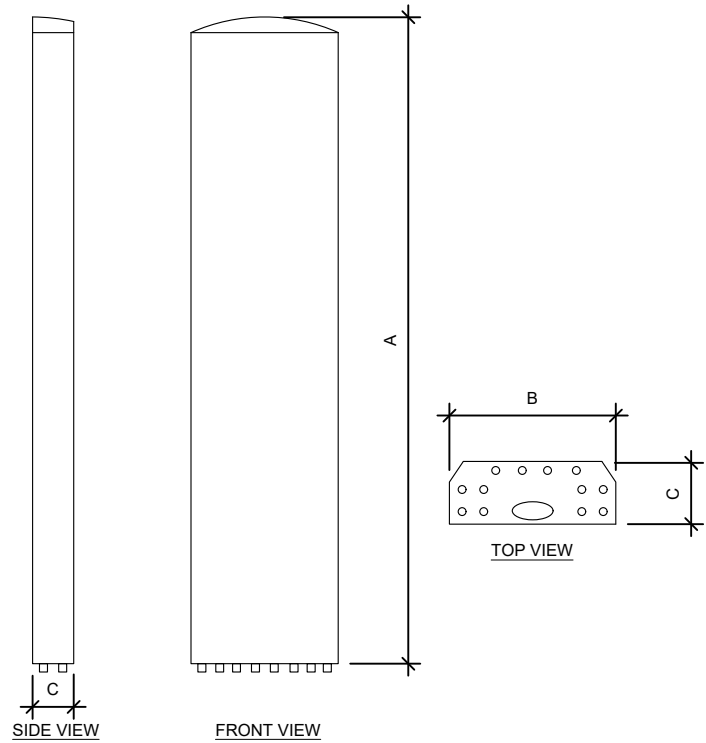
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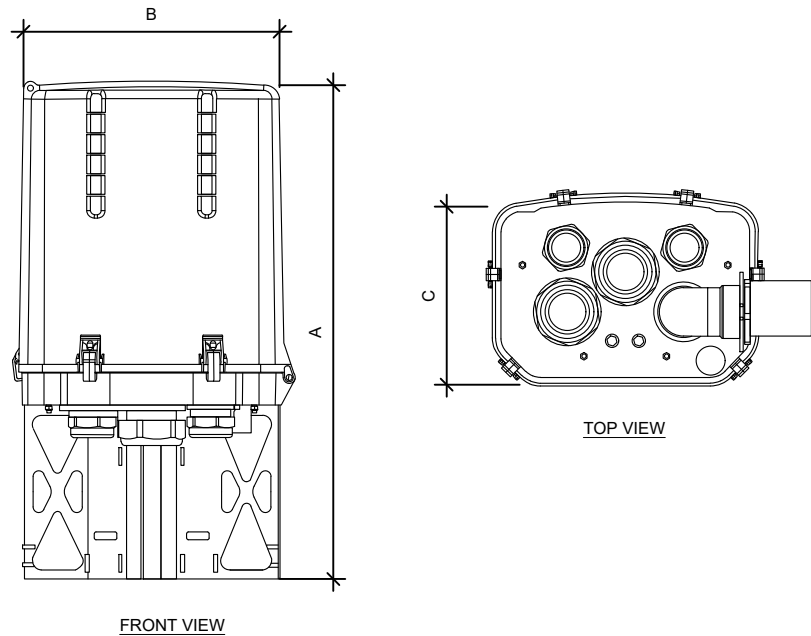
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| CUSTOMER ID:   | 131313             |

| GROUNDING DETAILS      |                |
|------------------------|----------------|
| SHEET NUMBER:<br>E-501 | REVISION:<br>0 |

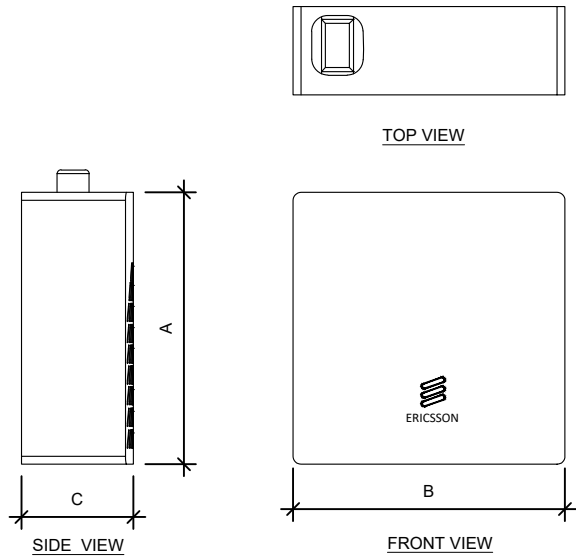




| ANTENNA SPECIFICATIONS |       |       |      |              |
|------------------------|-------|-------|------|--------------|
| ANTENNA MODEL          | A     | B     | C    | WEIGHT (LBS) |
| AIR 6419 B77D          | 30.0" | 15.7" | 6.7" | 70.0         |
| MX06FHG865-HG          | 95.9" | 12.2" | 7.5" | 51.0         |



| OVP SPECIFICATIONS |       |       |       |              |
|--------------------|-------|-------|-------|--------------|
| RAYCAP MODEL       | A     | B     | C     | WEIGHT (LBS) |
| RXXDC-3315-PF-48   | 19.2" | 15.7" | 10.3" | 32.0         |



| RRU SPECIFICATIONS |       |       |      |              |
|--------------------|-------|-------|------|--------------|
| RRU MODEL          | A     | B     | C    | WEIGHT (LBS) |
| RRUS 4490          | 20.6" | 15.7" | 7.0" | 68.4         |
| RRUS 4890          | 20.6" | 15.7" | 7.2" | 69.5         |

SOME LIKE IT HOT



HT200ET

- Helios™ Additive reduces float current up to 75% enhancing high temperature life
- THT™ Plastic specifically formulated heat resistant plastic case and cover optimizes compression
- Microcat® Catalyst lowers float current, mitigates thermal buildup and cell dryout
- Exclusive IPF® Technology optimizes power capacity, cell consistency, and long-term reliability
- TempX™ Alloy inhibits corrosion under the highest temperature extremes
- Advanced AGM technology for superior power
- Puncture resistant micro-porous glass mat separators extend life
- Front access design for easy installation and maintenance
- Reinforced case resists bulging and meets safety requirements (UL 94 V-0)
- Case & cover heat sealed and 100% tested to prevent leaks
- Epoxy-sealed posts eliminate leaks
- Flame arresting, low pressure, self-sealing valves are 100% factory tested
- Computer-aided design and manufacturing control processes and standards to ensure quality products
- All batteries meet or exceed IEEE recommended practices
- Battery design and construction meet UL recognition requirements

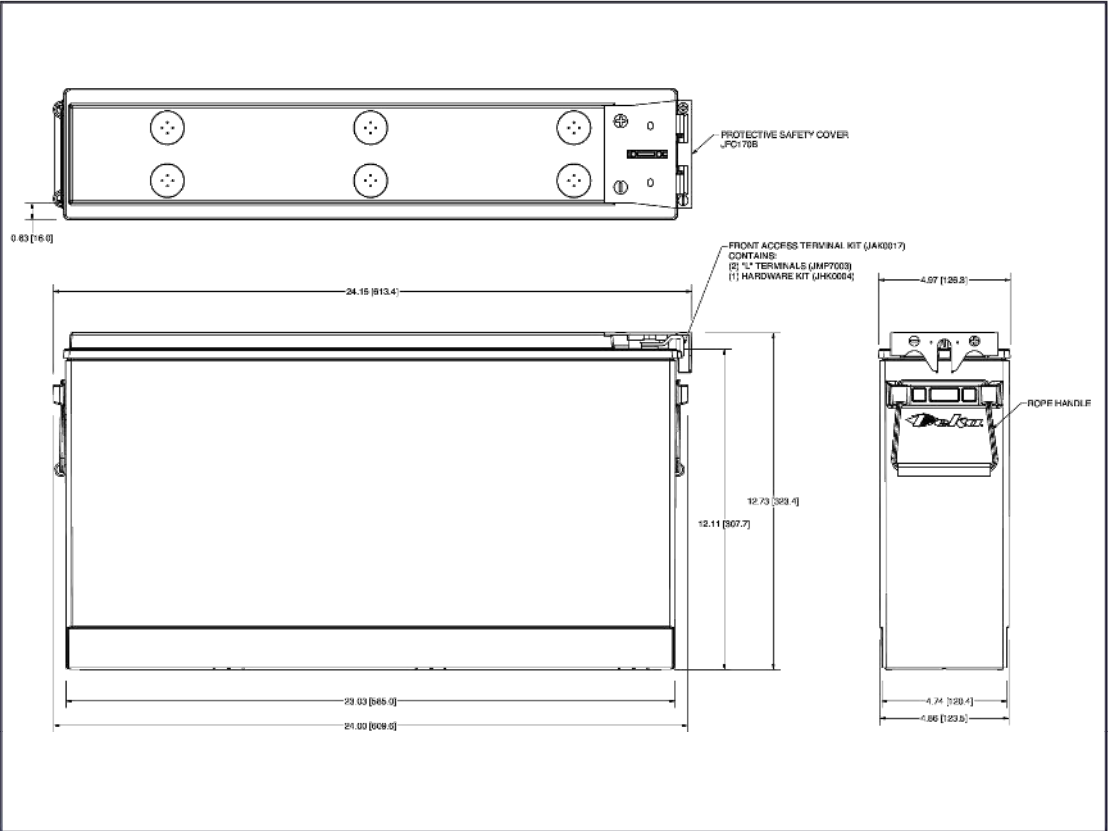
SPECIFICATIONS

|  |  |   |
|--|--|---|
| <b>Nominal Voltage:</b> 12-Volts                                 |  | <b>Catalyst:</b> Microcat®  |
| <b>Rating:</b> 190 Ampere-Hours @ 8 hr. rate to 1.75 V.P.C.      |  | <b>Safety Vent:</b> Low positive pressure, self-sealing w/ flame arrestor |
| <b>Positive Plate:</b> >98% Pure lead with tin-calcium alloy     |  | <b>Float Voltage:</b> 2.25 V.P.C. ± 0.01 V.P.C. @ 77°F (25°C)             |
| <b>Negative Plate:</b> Pure lead, calcium alloy                  |  | Range: (13.44V to 13.56V per battery)                                     |
| <b>Post Seal:</b> Epoxy-sealed                                   |  | <b>Design life:</b> 12 years in float applications @ 77°F (25°C)          |
| <b>Terminal:</b> Front access, 1/4" – 20 threaded insert         |  | <b>Dimensions:</b> Length - 24.15" (613.4 mm)                             |
| <b>Case/Cover:</b> Flame-retardant, THT™ – UL 94 V-0/>39% L.O.I. |  | Width - 4.97" (126.3 mm)  |
|  |  | Height - 12.74" (323.5 mm)  |
|  |  | <b>Weight:</b> 151 lbs. (68.5 kg)   |

DISCHARGE RATE IN AMPS @ 77°F (25°C)\*

| Volts per Cell (V.P.C.) | 1 HR. | 2 HR. | 3 HR. | 4 HR. | 5 HR. | 8 HR. | 12 HR. | 20 HR. | 24 HR. |
|-------------------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 1.75                    | 144   | 82.0  | 57.3  | 44.4  | 36.4  | 23.8  | 16.3   | 10.1   | 8.4    |
| 1.80                    | 136   | 79.1  | 55.4  | 43.1  | 35.4  | 23.2  | 16.0   | 9.9    | 8.3    |
| 1.85                    | 124   | 73.1  | 51.9  | 40.6  | 33.5  | 22.1  | 15.2   | 9.4    | 7.9    |
| 1.88                    | 113   | 68.0  | 48.7  | 38.3  | 31.7  | 21.0  | 14.5   | 9.0    | 7.6    |
| 1.90                    | 105   | 63.9  | 46.2  | 36.4  | 30.1  | 20.0  | 13.9   | 8.6    | 7.2    |

\*Subject to change without notice.



INSTALLATION AND OPERATING INSTRUCTIONS  
<http://www.eastpennmanufacturing.com/wp-content/uploads/Fahrenheit-IO-Manual-2100.pdf>

**PROPOSITION 65 WARNING:** Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Batteries also contain other chemicals known to the State of California to cause cancer. **WASH HANDS AFTER HANDLING.**



East Penn Manufacturing Co. Lyon Station, PA 19536-0147 Phone: 610-682-3263 Fax: 610-682-0891 e-mail: [reservepowersales@dekabatteries.com](mailto:reservepowersales@dekabatteries.com)

[www.dekabatteries.com](http://www.dekabatteries.com)

QUALITY SYSTEM  
CERTIFIED  
**ISO 9001**  
**IATF 16949**  
ENVIRONMENTAL  
SYSTEM CERTIFIED  
**ISO 14001**



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1 PROPOSED HT200ET BATTERY DETAILS  
SCALE: N.T.S.

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF CUSTOMER WITHOUT EDIT.

SUPPLEMENTAL

|               |           |
|---------------|-----------|
| SHEET NUMBER: | REVISION: |
| R-602         | -         |

SG050 | 6.8L | 50 kW  
INDUSTRIAL SPARK-IGNITED GENERATOR SET  
EPA Certified Stationary Emergency

STANDBY POWER RATING  
50 kW, 6S kVA, 60 Hz

PRIME POWER RATING\*  
45 kW, 56 kVA, 60 Hz



\*EPA Certified Stationary Emergency

CODES AND STANDARDS

Generac products are designed to the following standards:

|      |  |
|------|--|
| UL   | UL2200, UL500, UL142, UL486  |
| NFPA | NFPA70, 99, 110, 37  |
| NEC  | NEC700, 701, 702, 708  |
| ISO  | ISO9001, ISO28, 3046, 7637, Pluses #2b, 4                                |
| NEMA | NEMA ICS10, MG1, 250, ICS6, A81  |
| ANSI | ANSI C82.41  |
| ASCE | IBC 2009, CBC 2010, IBC 2012, ASCE 7-05, ASCE 7-10, ICC-LS AC-156 (2012) |

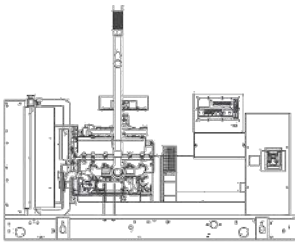


Image used for illustration purposes only

POWERING AHEAD

For over 50 years, Generac has led the industry with innovative design and superior manufacturing.

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

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

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

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

GENERAC INDUSTRIAL POWER

SG050 | 6.8L | 50 kW  
INDUSTRIAL SPARK-IGNITED GENERATOR SET  
EPA Certified Stationary Emergency

APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

|                                     |                                    |
|-------------------------------------|------------------------------------|
| General                             | Generac                            |
| Model                               | 18                                 |
| Cylinder #                          | Y                                  |
| Type                                | 6.8L (411.68)                      |
| Displacement - L (cu in)            | 89.17 (2.55)                       |
| Bore - mm (in)                      | 105.992 (4.17)                     |
| Stroke - mm (in)                    | 82.1                               |
| Compression Ratio                   | Naturally Aspirated                |
| Number of Main Bearings             | Forged                             |
| Connecting Rods                     | Aluminum                           |
| Cylinder Head                       | No                                 |
| Cylinder Liners                     | High Energy                        |
| Ignition                            | Aluminum Alloy                     |
| Piston Type                         | Steel                              |
| Crankshaft Type                     | Overhead Cam                       |
| Valve Type                          | Steel Alloy                        |
| Intake Valve Material               | Steel Alloy                        |
| Exhaust Valve Material              | Yes                                |
| Handover Valve Seat                 | Yes                                |
| Engine Covering                     | Electronic                         |
| Governor                            | Frequency Regulator (Steady State) |
| Frequency Regulation (Steady State) | +0.25%                             |
| Lubrication System                  | Water                              |
| Oil Pump Type                       | Full-flow spring-on cartridge      |
| Oil Filter Type                     | 5.7 (5)                            |

ALTERNATOR SPECIFICATIONS

|                                     |           |
|-------------------------------------|-----------|
| Standard Model                      | 300mm     |
| Poles                               | 4         |
| Field Type                          | Brushless |
| Insulation Class - Field            | H         |
| Insulation Class - Stator           | K         |
| Total Harmonic Distortion           | <5%       |
| Telephone Interference Factor (TIF) | <53       |

|                                    |                                  |
|------------------------------------|----------------------------------|
| Cooling System                     | Freeze-Protected Closed Recovery |
| Cooling System Type                | Water Pump Flow-gal/min (l/min)  |
| Fan Type                           | Pad Fan                          |
| Fan Speed (rpm)                    | 2800                             |
| Fan Diameter (in)                  | 558 (22)                         |
| Coolant Hose Voltage               | 1500                             |
| Coolant Hose Standard Voltage      | 120 V                            |
| Fuel System                        | Natural Gas, Propane Vapor       |
| Fuel Type                          | Standard                         |
| Calorific Value                    | Standard                         |
| Secondary Fuel Regulator           | Standard                         |
| Fuel Shut-Off Solenoid             | Standard                         |
| Operating Fuel Pressure (Standard) | 11" - 14" H <sub>2</sub> O       |
| Operating Fuel Pressure (Optional) | 7" - 14" H <sub>2</sub> O        |
| Engine Electrical System           | 12 VDC                           |
| System Voltage                     | Standard                         |
| Battery Charging Alternator        | See Battery Index                |
| Battery Size                       | 016197058Y                       |
| Battery Voltage                    | 12 VDC                           |
| Ground Polarity                    | Negative                         |

1 OF 4

SG050 | 6.8L | 50 kW  
INDUSTRIAL SPARK-IGNITED GENERATOR SET  
EPA Certified Stationary Emergency

STANDARD FEATURES

ENGINE SYSTEM

- General
  - Oil Drain Extension
  - Air Cleaner
  - Rain Guard
  - Removes Soot from exhaust connection
  - Factory Filled Oil & Coolant
  - Positive Shut Adapter (open set only)
  - Critical Exhaust Silencer (end-use only)

- Fuel System
  - Positive Fuel Line NPT Connection
  - Primary and secondary fuel shut-off

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

- Engine Electrical System
  - Battery charging alternator
  - Battery cables
  - Battery tray
  - Public-tooled engine electrical connections
  - Skid-mounted skid plate (end-use only)

- ALTERNATOR SYSTEM
  - UL2200 Grounded \*
  - Class H insulation material
  - 25 Fluct
  - Steady State
  - Brushless Excitation
  - Closed Circuit Recovery System
  - Amortisseur winding
  - Full load capacity alternator

GENERAC INDUSTRIAL POWER

CONTROL SYSTEM



- Control Panel
  - High H Control Panel - Dual 4-in/4-out Display
  - Programmable Clock Latch
  - 7-Day Programmable Controller
  - Special Applications Programmable PLC
  - IC-202/405
  - All Phase Sensing DMR
  - Full System Status
  - Utility Monitoring
  - Low Fuel Pressure Indicator
  - 2-Wire Start Compatible
  - Power Output (kW)
  - Power Factor
  - High Minutes, Total & Last Run

- Real/Reactive/Complex Power
- All Phase AC Voltage
- All Phase Currents
- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Speed
- Battery Voltage
- Frequency
- Run/Time Fault History (Event Log)
- Automatic Governor Control
- Waterproofed Connectors
- Audio Alarm and Shutdowns
- Not In Auto (Flashing Light)
- Auto-On/Manual Switch
- C-Group (Fuel Mismatch-Type)
- NFPA110 Level II (Programmed)
- Customizable Alarms, Warnings, and Events
- Modbus protocol
- Protective Maintenance algorithm
- Sealed Boards
- Parameterized parameter adjustment protection

- Single point ground
- 15 channel data logging
- 0.2 msec high speed data logging
- Alarm information automatically comes up on the display

- Alarms
  - Oil Pressure (Pre-programmed Low Pressure Shutdown)
  - Coolant Temperature (Pre-programmed High Temp Shutdown)
  - Coolant Level (Pre-programmed Low Level Shutdown)
  - Low Fuel Pressure Alarm
  - Engine Speed (Pre-programmed Over speed Shutdown)
  - Alarms & warnings time and date stamped
  - Alarms & warnings for transient and steady state conditions
  - Stop status of key operating parameters during alarms & warnings
  - Alarms and warnings speed out (no alarm code)

2 OF 4

SG050 | 6.8L | 50 kW  
INDUSTRIAL SPARK-IGNITED GENERATOR SET  
EPA Certified Stationary Emergency

CONFIGURABLE OPTIONS

ENGINE SYSTEM

- General
  - Engine Block Heater
  - Oil Heater
  - Air Filter Replacement Indicator
  - Stone Guard (Open Set Only)
  - Oil Cool Exhaust Silencer (Open Set Only)
  - Standard on Ultra Low Emissions Option

- Fuel Electrical System
  - 10A & 2.5A UL battery charger
  - Battery Monitor

ALTERNATOR SYSTEM

- Alternator Upsizing
- Anti-Condensation Heater
- Permanent Magnet Excitation

CIRCUIT BREAKER

- Main Line Circuit Breaker
- 2nd Main Line Circuit Breaker
- Shunt Trip and Auxiliary Contact
- Electronic Trip Breaker

ENGINEERED OPTIONS

GENERATOR SET

- General
  - Gen-Link Communications Software (Bridging Only)
  - Extended Factory Testing (3 Phase Only)
  - ISO Seismic Certification
  - Stone Guard (Open Set Only)
  - Oil Cool Exhaust Silencer (Open Set Only)
  - Standard on Ultra Low Emissions Option

ENCLOSURE

- Standard Enclosure
- Level 1 Sound Attenuation
- Level 2 Sound Attenuation
- Skid Enclosure
- Aluminum Enclosure
- 150 MPH Wind Kit
- 17 MPH Enclosure Lighting Kit
- 120 VAC Enclosure Lighting Kit
- AC/DC Enclosure Lighting Kit
- Door Alarm Switch

GENERAC INDUSTRIAL POWER

ENGINE SYSTEM

- Fluid containment Pass
- Coolant heater test valves

ALTERNATOR SYSTEM

- 3rd Breaker Systems

CONTROL SYSTEM

- Space (4x4) / Outputs (4x4) - H Panel Only
- Battery Disconnect Switch

RATING DEFINITIONS

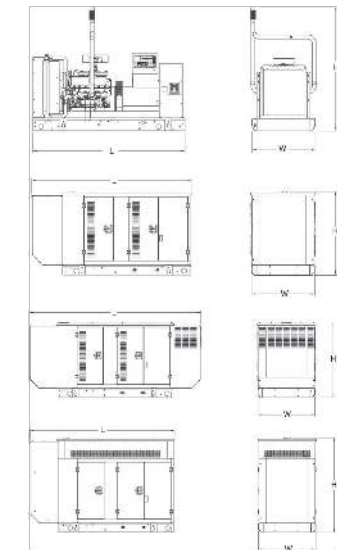
Standby - Applicable for a varying emergency load for the duration of a utility power outage with no overload capability.

Prime - Applicable for supplying power to a varying load in lieu of utility for an unlimited amount of running time. A 10% overload capacity is available for 1 out of every 12 hours. The Prime Power option is only available on industrial applications. Power ratings in accordance with ISO 8528-1, Second Edition.

3 OF 4

SG050 | 6.8L | 50 kW  
INDUSTRIAL SPARK-IGNITED GENERATOR SET  
EPA Certified Stationary Emergency

DIMENSIONS AND WEIGHTS



|   |   |
|---|---|
| <b>OPEN SET (Includes Exhaust Flex)</b> |   |
| L x W x H in (mm)                       | 87.5 (2238) x 48 (1219.2) x 75.4 (1926.1) |
| Weight lbs (kg)                         | 1079 (493)                                |

|                           |  |
|---------------------------|--|
| <b>STANDARD ENCLOSURE</b> |  |
| L x W x H in (mm)         | 111.5 (2830.7) x 40.5 (1027.5) x 55.3 (1405.7) |
| Weight lbs (kg)           | Steel: 2370 (1075)<br>Aluminum: 2074.5 (941)   |

|                                   |  |
|-----------------------------------|--|
| <b>LEVEL 1 ACOUSTIC ENCLOSURE</b> |  |
| L x W x H in (mm)                 | 129.4 (3287.2) x 40.5 (1027.8) x 55.3 (1405.7) |
| Weight lbs (kg)                   | Steel: 2690 (1175)<br>Aluminum: 2147 (974)     |

| LEVEL 2 ACOUSTIC ENCLOSURE |  |
|----------------------------|--|
| L x W x H in (mm)          | 111.8 (2839.7) x 40.5 (1027.8) x 67.8 (1721.5) |
| Weight lbs (kg)            | Steel: 2611 (1175)<br>Aluminum: 2290 (1037)    |

YOUR FACTORY RECOMMENDED DIESEL INDUSTRIAL DIESEL

Specify option in enclosure size change without notice. Please consult the Generac Power Systems technical data for detailed installation drawings.

Generac Power Systems, Inc. | P.O. Box 8 | Wisconsin, WI 53187  
P: (262) 544-4411 | © 2015 Generac Power Systems, Inc. All rights reserved. All specifications are subject to change without notice.

Rev. 01/2015  
Rev. 01/2015

4 OF 4

1 PROPOSED 50KW LP GENERATOR DETAILS  
SCALE: N.T.S.

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF CUSTOMER WITHOUT EDIT.

SUPPLEMENTAL

SHEET NUMBER:

R-603

REVISION:

-



AA-CL-T-3S PTLC Series

ATS Power Transfer Load Center with an Integrated Telco Cabinet

The AA-CL-T-3S is an outdoor PTLC that features separate AC and Telco chambers. The AC chamber includes a 42k AIC main disconnect breaker for normal (utility) power. When the normal power source is not available, an ASCO® Series 300 automatic transfer switch connects to a permanent or temporary alternative power source. Mechanically interlocked 10 kAIC main disconnect breakers allow manual transfer between the permanent and temporary sources.



The AA-CL-T-3S Series also features a Square D load center; Strikesorb® surge suppression; a utility voltage sensing relay; a Cam-Lok style engine generator connector panel, mounted on the left or right; and a ground fault circuit interrupter (GFCI) circuit breaker wired to a duplex outlet in the Telco chamber.

A double throw, single solenoid transfer mechanism and microprocessor controls in the ASCO Series 300 automatic transfer switch adjust to input from the primary power source or generator, depending on site conditions. The robust ASCO switch is UL 1008 Listed and complies with NFPA 110 for emergency and standby power systems.

To protect connected equipment, the AA-CL-3S PTLC safeguards critical loads from transients and load transfer spikes using Strikesorb® surge suppression. Strikesorb incorporates state of the art technological developments that provide superior protection characteristics, which remain unchanged throughout its long service life. It is designed to withstand repeated surges providing cost-effective and maintenance-free operation in demanding environments. Critical loads are never left unprotected, as Strikesorb will operate to a short circuit and trip the main disconnect breaker in the event of a long duration, potentially catastrophic overvoltage event.

A 42-position Square D load center provides the flexibility to distribute 200 amp, 240/120 single-phase or 208/120 three-phase power to a variety of site equipment.

The Telco chamber has a plywood backboard with three knockouts for cable entry centered above the backboard. Included in the Telco chamber is a 20-amp duplex receptacle fed from a GFCI circuit breaker (located in the upper, AC chamber.)

For more information about the AA-CL-T-3S Series panels, or other PTLC models, e-mail Intersect today at solutions@intersectinc.com.

Intersect, Inc.

Quality products. Premium customer care. Integrated solutions.

| Series Number   | Product Configuration   |
|---|---|
| AA1220042-3R-CL-T-L   | 240/120; 1Ø; 200 amp; 42 kAIC; utility and permanent or temporary power sources (3-sources); left-mount Cam Lok-style engine generator connector  |
| AA1220042-3R-CL-T-R   | 240/120; 1Ø; 200 amp; 42 kAIC; utility and permanent or temporary power sources (3-sources); right-mount Cam Lok-style engine generator connector   |
| AA3320042-3R-CL-T-L   | 208/120; 3Ø; 200 amp; 42 kAIC; utility and permanent or temporary power sources (3-sources); left-mount Cam-Lok style engine generator connector  |
| AA3320042-3R-CL-T-R   | 208/120; 3Ø; 200 amp; 42 kAIC; utility and permanent or temporary power sources (3-sources); right-mount Cam-Lok style engine generator connector   |
| Option Number   | Description   |
| Opt 11BG  | Programmable Engine Exerciser – seven-day electronic time switch provides automatic weekly or bi-weekly testing of the engine generator set either with or without load and offers relay contacts for remote status monitoring. |
| Other service voltages and amperages are available. Custom panels can be designed to your performance specifications. Contact Intersect: solutions@intersectinc.com |   |

General Data

Overall enclosure weight and dimensions

Varies by service voltage, amperage, and enclosure type. Request specific panel drawings for this product information.

AC cabinet dimensions (H x W x D)

53 x 29 x 12 inches

Telco cabinet dimensions (H x W x D)

20 x 29 x 12 inches

Enclosure type

- NEMA 3R
- 0.008 aluminum construction

Service voltage

- 200 amp
- 240/120
- 208/120

Voltage sensing relay

- Senses "utility" or normal source voltage
- Installed on "line" side of main disconnect breaker

UL certification

- UL 67 listed panel
- Service entrance rated

Cam-Lok Style Panel

Model

Micrin or Intersect ICL

Color coded Cam-Lok Connectors

- Green – Ground
- White – Neutral
- Black – Line 1
- Red – Line 2
- Blue – Line 3

UL Certification

UL 1008 listed

Load Center

Load center type

Square D

Circuit breaker positions

42 circuits

Circuit breaker type

Square D bolt-on or plug-in branch devices

Telco Cabinet

Duplex receptacle

- 15 amp GFCI circuit breaker
- 120 V

Terminal bar

- Insulated
- Ground connection

AC service connection

Two, 2-inch nonmetallic conduits

Manual Transfer Switch

Type

- Mechanically interlocked breakers for permanent or alternative power source
- Enables manual transfer between permanent and temporary power source (10 kA at 240 VAC)

Square D input breaker

- 200 amps

Source circuit breaker

Permanent & alternative emergency power

Withstand current rating (WCR)

10,000 amps

Automatic Transfer Switch

Type

ASCO – 300L Series

Power transfer mechanism

- Single solenoid operation
- Microprocessor controller
- Double throw operation

Engine starting contact

Connect signal wires to auto-start engine generator set

Source circuit breaker

- Normal (utility power)
- 200 amp, 60 Hz

Engine exerciser

- Built-in, 20-minute exerciser
- See Option 11BG in table for further details

Withstand current rating (WCR)

42,000 amps

UL certification & other safety compliances

- UL 1008, standard for transfer switch equipment
- CSA standard C22.2 for automatic transfer switches
- NFPA 110 for emergency and standby power systems
- NEC Articles 700, 701, and 702

Suppression Technology

Technology type

Strikesorb 40-A1, 120 V modules

Surge Protection Levels

Response time

<1 ns

Maximum surge current

- Surge current, Imax (8/20) NEMA LS-1: 140 kA
- Lightning current, Iimp (10/350) IEC 61643-1: 7.5 kA

Let through voltage level

For surge current 10 kA (8/20) IEEE C62.41-1: 435 V - actual surge current through Strikesorb

Long duration surge performance

500 A square waveform 2 ms IEEE C62.11: 250 hits

Voltage protection rating (VPR)

600 V per UL 1449 3rd edition

Short Circuit Current Rating

- Tested for safe installation behind a 4000 A Class I time delay fuse at available fault current 200 kA
- 3-cycle testing at 85 kA

Standards Compliance

- IEEE C62.41, IEEE C62.45, IEEE C62.11, NEMA LS-1
- IEC 61643-1 ed 2:2005, EN 61642-A11:2005, IEC 61643-12

Intersect, Inc.

P.O. Box 753 Liberty Lake WA 99019 USA  
Phone: 509.255.9570 – Fax: 509.255.6034  
www.intersectinc.com

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UNDERGROUND/ABOVEGROUND TANKS (AG/UG)



WHY CHOOSE QUALITY STEEL UNDERGROUND TANKS?

- 120 - 1,990 WG CAPACITY
- General Specifications
  - Conforms to the latest edition of ASME Rules for Construction of Pressure Vessels, Section VIII, Division 1.
  - Complies with NFPA 58.
  - Rated at 250 psig from -20° F to 125° F. All vessels registered with National Board.
  - Two service options available:
    - Option 1: Ready-to-bury underground option, coated with either powder coated phenolic epoxy finish or liquid applied epoxy primer coat followed by urethane top coat, supplied with composite AG/UG dome
    - Option 2: Aboveground option, coated with either powder coated TGIC polyester finish or liquid applied epoxy primer coat followed by urethane top coat, supplied with steel AG/UG dome
- Family & employee owned
- Financing and leasing available
- Customized delivery programs available



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HOW DO I FIND MY SALES REP?

Visit our website, [www.propanetank.com](http://www.propanetank.com) to view a list of our reps. Once on our site you'll be able to choose the Commercial options and from there you'll be taken to a list of US states where you can choose your location and view the contact information for your local sales rep. If you don't see your sales rep. please give us a call at 800-345-2495.

Our manufacturing locations are strategically located to help serve your tank needs.

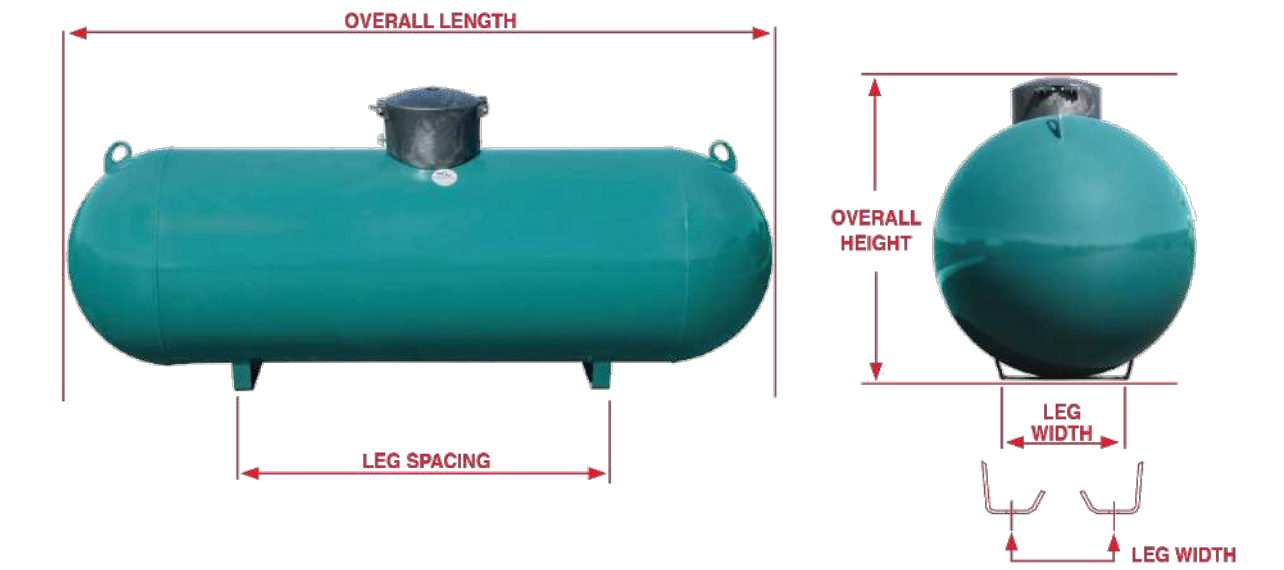
**OHIO LOCATION**  
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419-334-2664

**UTAH LOCATION**  
5601 Axel Park Rd.  
West Jordan, UT 84081  
801-280-1133

**HOME OFFICE**  
2914 U.S. 61  
Cleveland, MS 38732  
800-345-2495

UNDERGROUND/ABOVEGROUND TANKS (AG/UG)

Consult our dimension and specification chart below to find the tank that best fits your needs. Visit our website at [www.propanetank.com](http://www.propanetank.com) for more information.



| APPROXIMATE ABOVEGROUND/UNDEGROUND (AG/UG) VESSEL DIMENSIONS AND SPECIFICATIONS |               |           |                |                |            |                      |               |            |           |
|---|---------------|-----------|----------------|----------------|------------|----------------------|---------------|------------|-----------|
| WATER CAPACITY  | DIAMETER (OD) | HEAD TYPE | OVERALL LENGTH | OVERALL HEIGHT | LEG* WIDTH | LEG** SPACING        | WEIGHT (lbs.) | **QUANTITY |           |
|   |               |           |                |                |            |                      |               | FULL LOAD  | PER STACK |
| *120 wg.  | 24"           | Ellip.    | 5'-8"          | 3'             | 1'-1 1/2"  | 2'-10 1/2" or 3'-11" | 260           | 108   96   | 16   12   |
| *250 wg.  | 30"           | Hemi.     | 7'-10"         | 3'-8"          | 1'-5"      | 4'-11"               | 480           | 54         | 9         |
| *320 wg.  | 30"           | Hemi.     | 9'-7"          | 3'-8"          | 1'-5"      | 5'                   | 620           | 45         | 9         |
| 500 wg.   | 37 1/2"       | Hemi.     | 10'            | 4'-2"          | 1'-8"      | 5'                   | 950           | 37   30    | 8   6     |
| 1000 wg.  | 41"           | Hemi.     | 16'            | 4'-5"          | 1'-8"      | 10'-1"               | 1,800         | 17   15    | 6   5     |
| 1450 wg.  | 46 1/2"       | Ellip.    | 17'-4"         | 4'-11"         | 1'-9"      | 11'-7"               | 2,650         | 12         | 4         |
| 1990 wg.  | 46 1/2"       | Ellip.    | 23'-11"        | 4'-11"         | 1'-9"      | 16'                  | 3,520         | 8          | 4         |

Dimensions and specifications shown are approximate. Individual vessels may vary

\* Leg spacing +/- 2". Leg widths and spacing may vary based on mfg. location. Check with your salesperson for details. 120, 250, 320 wg. standard tanks - no holes in legs (one center hole on request). 500 and 1000 wg. standard tanks - 2 holes 16" on center. 1450 wg. and up as shown above.

\*\* Full load and stack quantities vary by shipping location. Check with your salesperson for details.

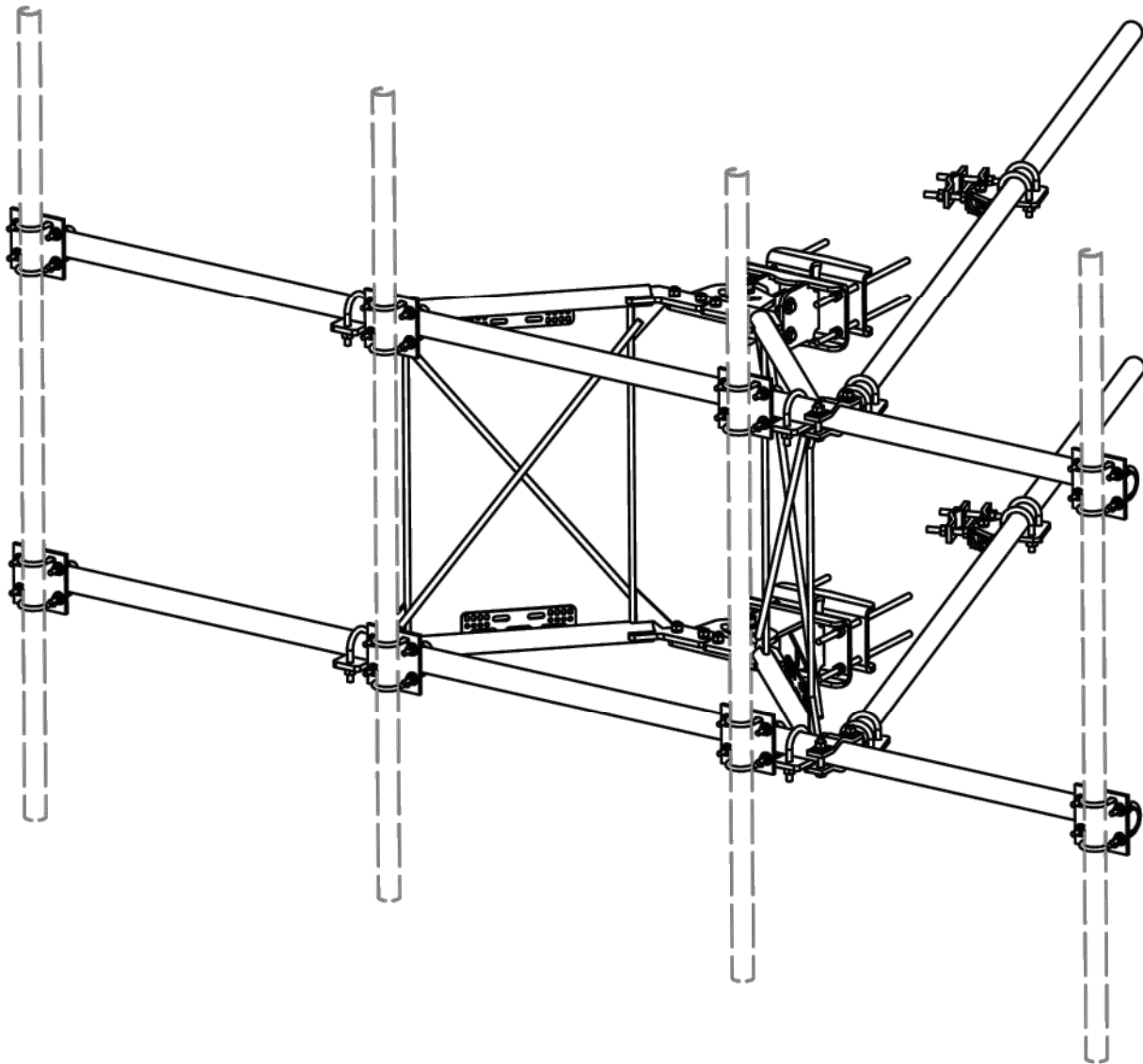
**HOME OFFICE**  
2914 U.S.61  
Cleveland, MS 38732  
800-345-2495

**OHIO LOCATION**  
721 Graham Drive  
Fremont, OH 43420  
419-334-2664

**UTAH LOCATION**  
5601 Axel Park Rd.  
West Jordan, UT 84081  
801-280-1133

Quality Steel 6/2017 S2

| SUPPLEMENTAL                  |                       |
|-------------------------------|-----------------------|
| SHEET NUMBER:<br><b>R-605</b> | REVISION:<br><b>-</b> |



| PARTS LIST |     |            |  |            |             |         |
|------------|-----|------------|--|------------|-------------|---------|
| ITEM       | QTY | PART NO.   | PART DESCRIPTION                               | LENGTH     | UNIT WT.    | NET WT. |
| 1          | 2   | X-VFAW     | SUPPORT ARM                                    |            | 71.41       | 142.81  |
| 2          | 1   | X-HDCAMTBW | CLAMP WELDMENT FOR BCAM-HD                     |            | 33.86       | 33.86   |
| 3          | 1   | X-MHTPHD   | MULTI-HOLE TAPER PLATE WELDMENT                |            | 36.24       | 36.24   |
| 4          | 2   | X-VFAPL4   | VFA-HD PIVOT PLATE                             | 12 in      | 15.88       | 31.77   |
| 5          | 2   | X-LCBP4    | BENT BACKING PLATE                             | 13 in      | 20.04       | 40.09   |
| 6          | 1   | X-HDCAMSS  | ANGLE ADJUSTMENT WELDMENT FOR BCAM-HD          |            | 16.39       | 16.39   |
| 7          | 4   | X-SPTB     | SLIDING PIPE TIE BACK PLATE                    | 5 1/2 in   | 5.87        | 23.49   |
| 8          | 1   | X-HDCAMSP  | POSITIONING PLATE WELDMENT FOR BCAM-HD         |            | 2.58        | 2.58    |
| 9          | 4   | X-TBCA     | TIE BACK CLIP ANGLE                            |            | 2.01        | 8.02    |
| 10         | 8   | SCX2       | CROSSOVER PLATE                                | 7 in       | 4.80        | 38.37   |
| 11         | 4   | MCP        | CLAMP HALF 1/2" THICK, 11-5/8" LONG            | 12 1/16 in | 3.59        | 14.37   |
| 12         | 8   | DCP        | 1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF  | 8 1/8 in   | 2.36        | 18.90   |
| 13         | 2   | P2126      | 2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE     | 126 in     | 40.75       | 81.50   |
| 14         | 2   | P30150     | 2-7/8" X 150" (2-1/2" SCH. 40) GALVANIZED PIPE | 150 in     | 76.94       | 153.87  |
| 15         | 4   | A34212     | 3/4" x 2-1/2" UNC HEX BOLT (A325)              | 2 1/2 in   | 0.48        | 1.92    |
| 16         | 4   | G34FW      | 3/4" HDG USS FLATWASHER                        |            | 0.06        | 0.24    |
| 17         | 4   | G34LW      | 3/4" HDG LOCKWASHER                            |            | 0.04        | 0.17    |
| 18         | 4   | G34NUT     | 3/4" HDG HEAVY 2H HEX NUT                      |            | 0.21        | 0.85    |
| 19         | 8   | G58R-18    | 5/8" x 18" THREADED ROD (HDG.)                 |            | 1.57        | 12.54   |
| 20         | 4   | G58R-12    | 5/8" x 12" THREADED ROD (HDG.)                 |            | 1.05        | 4.18    |
| 21         | 4   | G58R-8     | 5/8" x 8" THREADED ROD (HDG.)                  |            | 0.70        | 2.79    |
| 22         | 4   | X-UB5300   | 5/8" X 3" X 5-1/4" X 2-1/2" U-BOLT (HDG.)      |            | 1.15        | 4.60    |
| 23         | 8   | X-UB5258   | 5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.)      |            | 1.00        | 8.00    |
| 24         | 2   | G5807      | 5/8" x 7" HDG HEX BOLT GR5 FULL THREAD         | 7 in       | 0.70        | 1.41    |
| 25         | 1   | G5806      | 5/8" x 6" HDG HEX BOLT GR5 FULL THREAD         | 6 in       | 0.62        | 0.62    |
| 26         | 8   | G5804      | 5/8" x 4" HDG HEX BOLT GR5                     |            | 0.44        | 3.55    |
| 27         | 4   | G5802      | 5/8" x 2" HDG HEX BOLT GR5                     |            | 0.27        | 1.08    |
| 28         | 8   | A582114    | 5/8" x 2-1/4" HDG A325 HEX BOLT                | 2 1/4 in   | 0.31        | 2.50    |
| 29         | 25  | G58FW      | 5/8" HDG USS FLATWASHER                        | 1/8 in     | 0.07        | 1.76    |
| 30         | 66  | G58LW      | 5/8" HDG LOCKWASHER                            |            | 0.03        | 1.72    |
| 31         | 71  | G58NUT     | 5/8" HDG HEAVY 2H HEX NUT                      |            | 0.13        | 9.22    |
| 32         | 32  | X-UB1300   | 1/2" X 3" X 5" X 2" GALV U-BOLT                |            | 0.74        | 23.64   |
| 33         | 16  | X-UB1212   | 1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)      |            | 0.60        | 9.56    |
| 34         | 64  | G12FW      | 1/2" HDG USS FLATWASHER                        | 3/32 in    | 0.03        | 2.18    |
| 35         | 64  | G12LW      | 1/2" HDG LOCKWASHER                            | 1/8 in     | 0.01        | 0.89    |
| 36         | 64  | G12NUT     | 1/2" HDG HEAVY 2H HEX NUT                      |            | 0.07        | 4.58    |
|            |     |            |  |            | TOTAL WT. # | 740.26  |

TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:  
SAWED, SHEARED AND GAS CUT EDGES ( $\pm 0.030"$ )  
DRILLED AND GAS CUT HOLES ( $\pm 0.030"$ ) - NO CONING OF HOLES  
LASER CUT EDGES AND HOLES ( $\pm 0.010"$ ) - NO CONING OF HOLES  
BENDS ARE  $\pm 1/2$  DEGREE  
ALL OTHER MACHINING ( $\pm 0.030"$ )  
ALL OTHER ASSEMBLY ( $\pm 0.060"$ )

PROPRIETARY NOTE:  
THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.

DESCRIPTION

12' 6" HEAVY DUTY  
V-FRAME ASSEMBLY  
WITH TWO STIFF ARMS

|         |               |                |
|---------|---------------|----------------|
| CPD NO. | DRAWN BY      | ENG. APPROVAL  |
|         | CEK 1/25/2017 |                |
| CLASS   | SUB           | DRAWING USAGE  |
| 81      | 02            | CUSTOMER       |
|         |               | CHECKED BY     |
|         |               | BMC 12/13/2017 |



Engineering  
Support Team:  
1-888-753-7446

Locations:  
New York, NY  
Atlanta, GA  
Los Angeles, CA  
Plymouth, IN  
Salem, OR  
Dallas, TX

A valmont COMPANY

|          |          |                |
|----------|----------|----------------|
| PART NO. | VFA12-HD | PAGE<br>1 OF 5 |
| DWG. NO. | VFA12-HD |                |

|                  |  |     |     |           |
|------------------|--|-----|-----|-----------|
| D                | UPDATED BCAM VERSION 1 TO BCAM VERSION 2       |     | CEK | 6/29/2018 |
| C                | UPDATED PIN LEG CONNECTION TO B-CAM CONNECTION |     | CEK | 12/7/2017 |
| B                | CHANGED TIE-BACK BACK CONNECTION               |     | CEK | 7/31/2017 |
| A                | CHANGED TIE-BACK FRONT CONNECTION              |     | CEK | 2/2/2017  |
| REV              | DESCRIPTION OF REVISIONS                       | CPD | BY  | DATE      |
| REVISION HISTORY |  |     |     |           |

1 PROPOSED SECTOR FRAME MOUNT DETAILS  
SCALE: N.T.S.

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF CUSTOMER WITHOUT EDIT.

SUPPLEMENTAL

SHEET NUMBER:

R-606

REVISION:

-





Colliers Engineering & Design  
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Brentwood, TN 37027  
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Mount Structural Analysis Report  
(3) 12.50-Ft Sector Frame

May 17, 2024  
Site ID: 5000077708-VZW / PHILLIPS LAKE CITY  
Page | 5

New/Replacement Antenna Mount Analysis Report and PMI Requirements

Mount Analysis-R

SMART Tool Project #: 10234593  
Colliers Engineering & Design Project #: 21941226

May 17, 2024

Site Information

Site ID: 5000077708-VZW / PHILLIPS LAKE CITY  
Site Name: PHILLIPS LAKE CITY  
Carrier Name: Verizon Wireless  
Address: 233 NW Ranch Court  
Lake City, Florida 32056  
Columbia County  
Latitude: 30.225722°  
Longitude: -82.724833°

Structure Information

Tower Type: 300-Ft Guyed  
Mount Type: 12.50-Ft Sector Frame

FUZE ID # 16276469

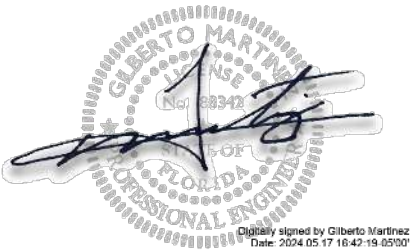
Analysis Results

Sector Frame: 65.7% Pass w/ Mount Replacement\*  
((3) Site Pro 1 VFA12-HD)

\*Antennas and equipment to be installed in compliance with PMI Requirements of this mount analysis.

\*\*\*Contractor PMI Requirements:  
Included at the end of this MA report  
Available & Submitted via portal at <https://pmi.vzwsmart.com>  
For additional questions and support, please reach out to:  
[pmisupport@colliersengineering.com](mailto:pmisupport@colliersengineering.com)

Report Prepared By: David Anuka



Mount Steel (EPA)a per ANSI/TIA-222-H Section 2.6.11.2:

| Ice Thickness (In) | Mount Pipes Excluded   |                       | Mount Pipes Included   |                       |
|--------------------|------------------------|-----------------------|------------------------|-----------------------|
|                    | Front (EPA)a (Sq. Ft.) | Side (EPA)a (Sq. Ft.) | Front (EPA)a (Sq. Ft.) | Side (EPA)a (Sq. Ft.) |
| 0                  | 15.1                   | 6.7                   | 24.2                   | 15.8                  |
| 0.5                | 23.7                   | 12.2                  | 36.6                   | 25.2                  |
| 1                  | 31.6                   | 17.2                  | 48.4                   | 34.0                  |

Notes:  
- (EPA)a values listed above may be used in the absence of more precise information  
- (EPA)a values in the table above include 1 sector(s).  
- Ka factors included in (EPA)a calculations

Requirements:

The proposed antenna mounts are SUFFICIENT for the final loading configuration (attachment 2) upon completion of the mount replacement (attachment 3) and requirements below.

Refer to document at the end of this form for special instructions. Contact EOR if special instructions are not available.

ANSI/ASSP rigging plan review services compliant with the requirements of ANSI/TIA 322 are available for a Construction Class IV site or other, if required. Separate review fees will apply.

Attachments:

- Contractor Required Post Installation Inspection (PMI) Report Deliverables
- Antenna Placement Diagrams
- Mount Manufacturer Drawings
- Existing Mount Photos
- Analysis Calculations

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT. PLEASE REFERENCE THE MOUNT ANALYSIS REPORT FOR COMPLETE MOUNT ANALYSIS CALCULATIONS AND DETAILS. SUPPLEMENTAL PAGES INCLUDED IN THE CONSTRUCTION DRAWINGS ARE FOR REFERENCE ONLY. GENERAL CONTRACTOR IS TO VERIFY THEY HAVE THE MOST RECENT MOUNT ANALYSIS PRIOR TO CONSTRUCTION.

SUPPLEMENTAL