

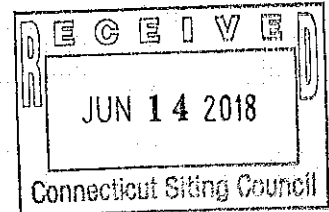
**T-Mobile Northeast LLC
("T-Mobile")**

Alex Murshteyn
Real Estate Consultant
95 Ryan Drive, Suite #1
Raynham, MA 02767
Phone: (508)821-0159
amurshteyn@clinellc.com

June 3, 2018

Honorable Robert Stein, Chairman
and Members of the Connecticut Siting Council
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

ORIGINAL



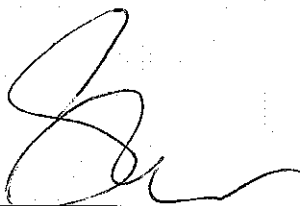
Re: **Request for Tower Share – Approved TS-T-MOBILE-069-180301
T-Mobile Northeast LLC ("T-Mobile") Update to Request for Approval of the Shared
Use of an Existing Tower at 1375 North Road, Killingly (Dayville), CT 06241.
T-Mobile site number: CTNL194 (ATC: 88011)**

Dear Chairman Stein and Members of the Council:

T-Mobile recently proposed to share an existing telecommunications tower located at 1375 North Road, Killingly, CT (the facility) and was approved under file TS-T-MOBILE-069-180301. However, the plans for the generator at this site have since changed: instead of one (1) Powergen 7500W backup generator with one (1) 120-gallon propane tank, T-Mobile is now seeking to deploy one 25KW backup diesel generator with a 220-gallon tank base instead. The rest of the configuration allowed under this Tower Sharing approval will remain unchanged.

As construction work has not yet begun and pursuant to my conversations with Fred Cunliffe on the matter, please find a set of updated construction drawings along with a specification sheets attached hereto. Please advise if these updated details may be included in the building permit filing with the municipality and considered and update to the Tower Sharing approval.

Respectfully yours,



Alex Murshteyn



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

www.ct.gov/csc

April 13, 2018

Alex Murshteyn
Real Estate Consultant
Centerline Communications
95 Ryan Drive, Suite #1
Raynham, MA 02767

RE: **TS-T-MOBILE-069-180301** - T-Mobile request for an order to approve tower sharing at an existing telecommunications facility located at 1375 North Road, Killingly, Connecticut.

Dear Mr. Murshteyn:

At a public meeting held on April 12, 2018, the Connecticut Siting Council (Council) ruled that the shared use of this existing tower site is technically, legally, environmentally, and economically feasible and meets public safety concerns, and therefore, in compliance with General Statutes § 16-50aa, the Council has ordered the shared use of this facility to avoid the unnecessary proliferation of tower structures with the following conditions:

1. Any deviation from the proposed installation as specified in the original tower share request and supporting materials with the Council shall render this decision invalid;
2. Any material changes to the proposed installation as specified in the original tower share request and supporting materials filed with the Council shall require an explicit request for modification to the Council pursuant to Connecticut General Statutes § 16-50aa, including all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65;
3. Not less than 45 days after completion of the proposed installation, the Council shall be notified in writing that the installation has been completed;
4. Any nonfunctioning antenna and associated antenna mounting equipment on this facility owned and operated by T-Mobile shall be removed within 60 days of the date the antenna ceased to function.
5. The validity of this action shall expire one year from the date of this letter; and
6. The applicant may file a request for an extension of time beyond the one year deadline provided that such request is submitted to the Council not less than 60 days prior to the expiration.

This decision is under the exclusive jurisdiction of the Council and applies only to this request for tower sharing dated February 27, 2018. This facility has been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower. Any deviation from the approved tower sharing request is enforceable under the provisions of Connecticut General Statutes § 16-50u.

The proposed shared use is to be implemented as specified in your letter dated February 27, 2018, and additional information received March 23, 2018, including the placement of all necessary equipment and shelters within the tower compound.

Please be advised that the validity of this action shall expire one year from the date of this letter.

Thank you for your attention and cooperation.

Sincerely,

Robert Stein
Chairman

RS/MAB/lm

C: The Honorable David Griffiths, Chairman, Town of Killingly
Sean Hendricks, Town Manager, Town of Killingly
Ann-Marie L. Aubrey, Director of Planning and Development, Town of Killingly
American Tower Corporation



CONNECTICUT SITING COUNCIL
Affirmative Action / Equal Opportunity Employer

T-Mobile DC Diesel Generators 15kW and 25kW





Contents

1

Overview & General Specifications

2

Block Diagrams

3

Dimensions & Layouts

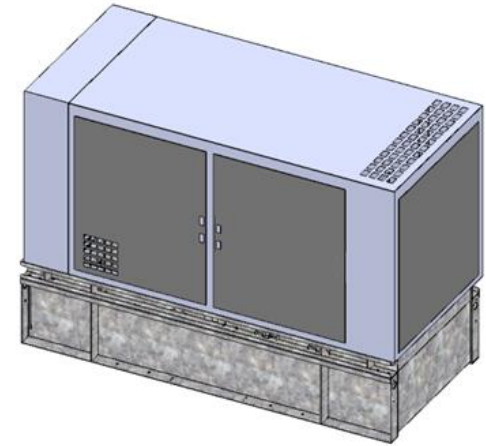


Features

- Intelligent and Friendly Monitoring by Remote Control (via SNMP)
- Longer Service Interval: >500hrs
- Low Acoustic Noise: <75dBA @ 7 meters
 - Optional Upgrades: <65dBA @ 7 meters

| Longer Backup Time: | Tank | 15kW @ 75% Load | 25kW @ 75% Load |
|---------------------|------------|-----------------|-----------------|
| Standard | 130 gallon | 94 hours | 72 hours |
| Upgraded | 220 gallon | 155 hours | 120 hours |

- Output Ripple < 250mV
- Battery Management – Temperature compensation,
Life management,
Precise Battery Current Limitation
- Corrosion Resistant
- Rodent Resistant



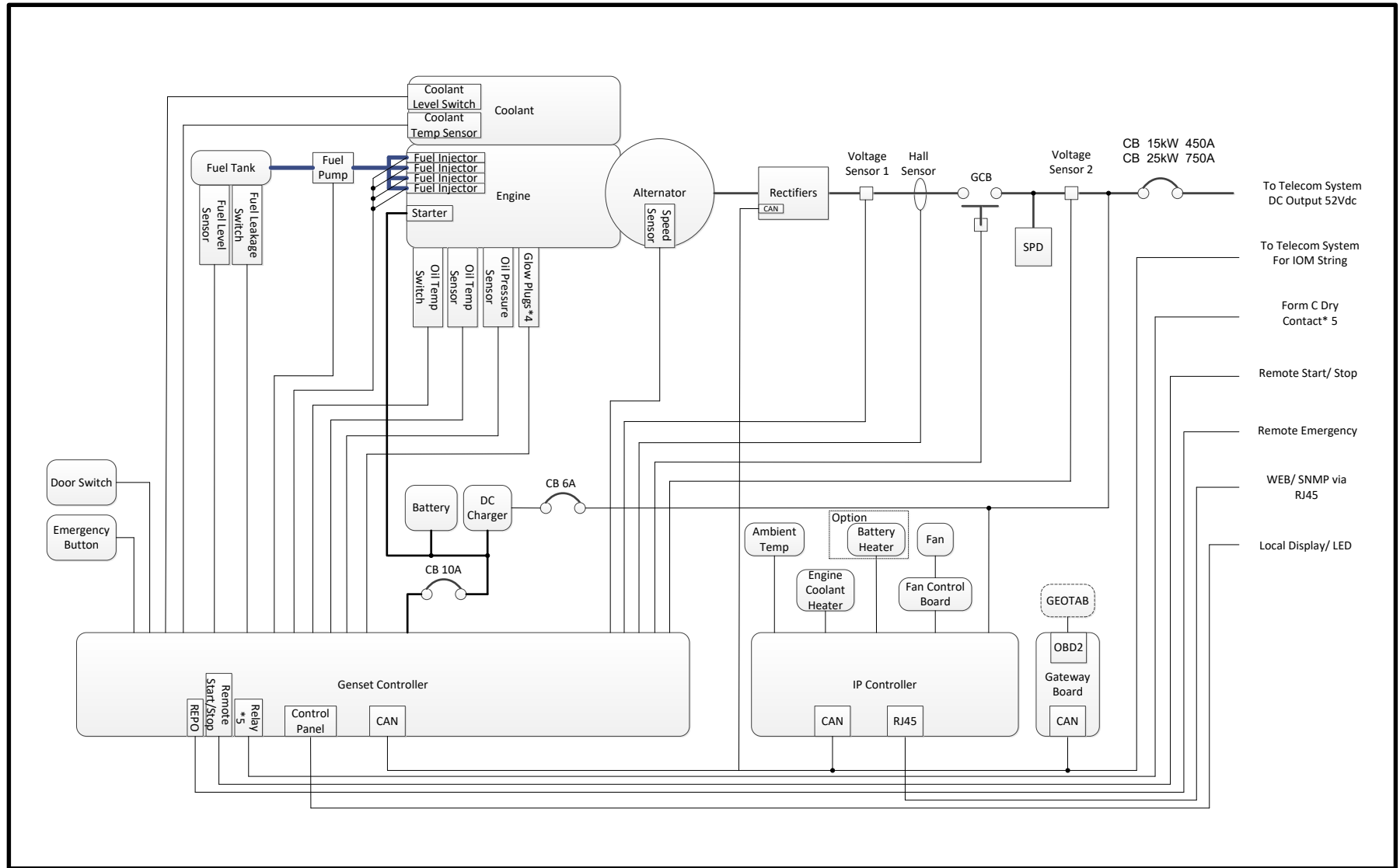


General Specification

| Model | 15kW DC | 25kW DC |
|-----------------------|------------------------|-----------------|
| DC Output | 52Vdc at 100% load | |
| Engine Model | Perkins Tier 4 Interim | |
| Engine Speed | 1800rpm | |
| Weight (estimated) | 1120kg (2470lb) | 1320kg (2910lb) |
| Operating Temperature | -25°C to +45°C | |
| Safety | UL2200 / UL142 | |

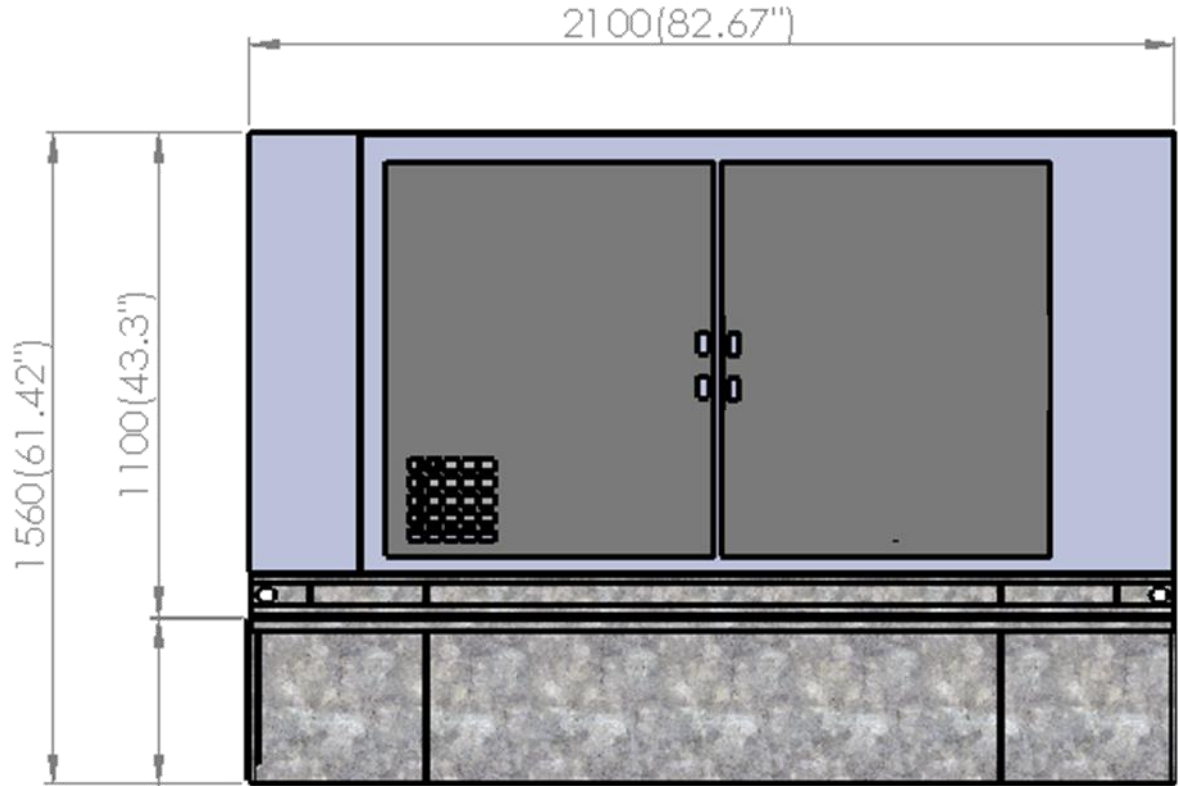
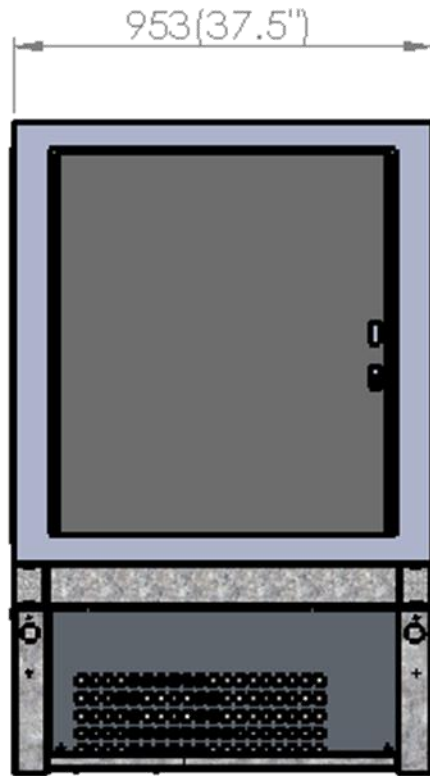


Block Diagram





130 Gallon Tank Dimensions 15kW or 25kW DC Genset

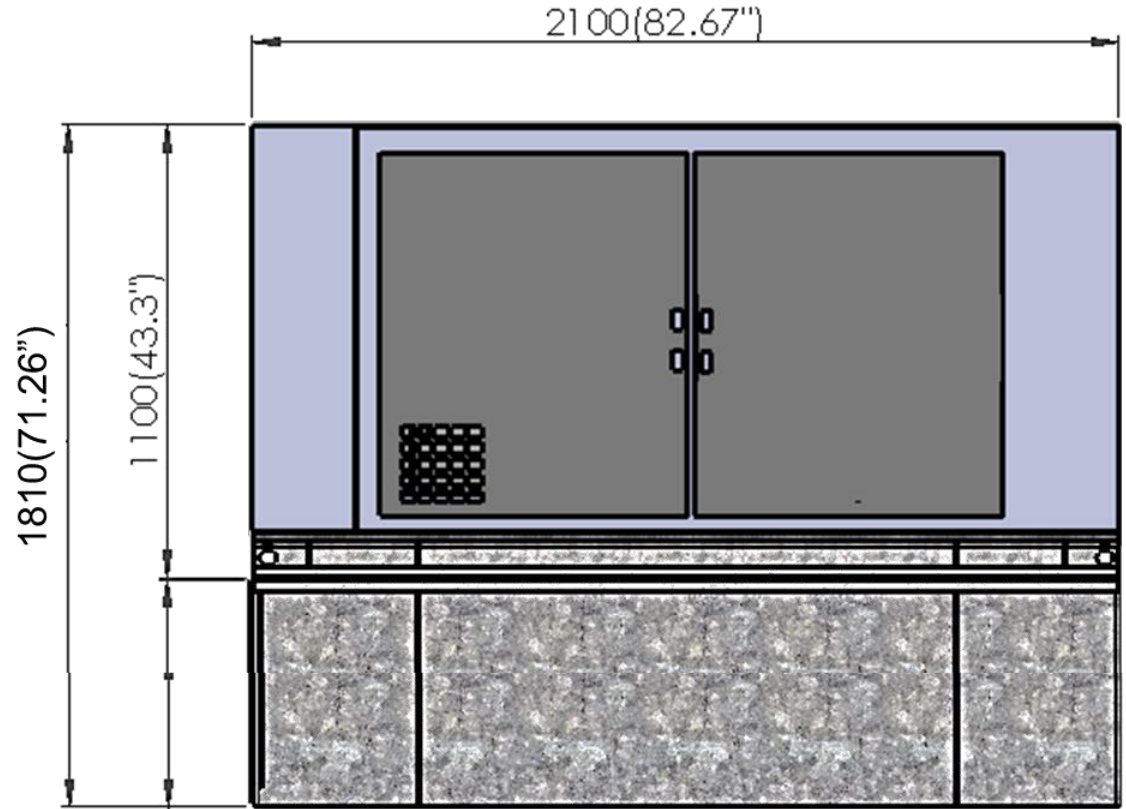
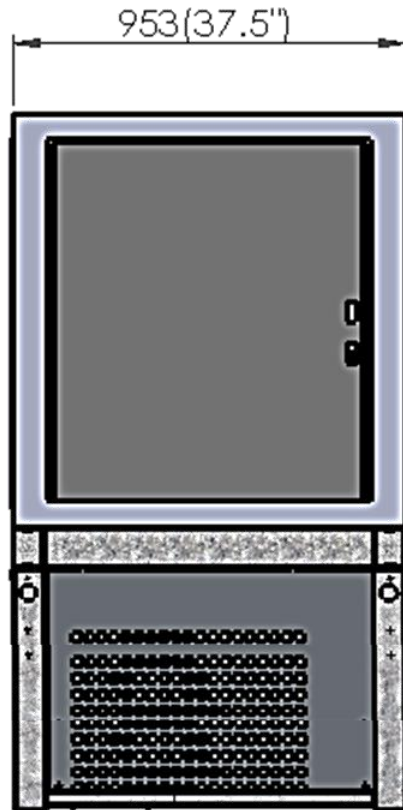


130 gallon fuel tank

| Standard Tank | 15kW @ 75% Load | 25kW @ 75% Load |
|---------------|-----------------|-----------------|
| 130 gallon | 94 hours | 72 hours |



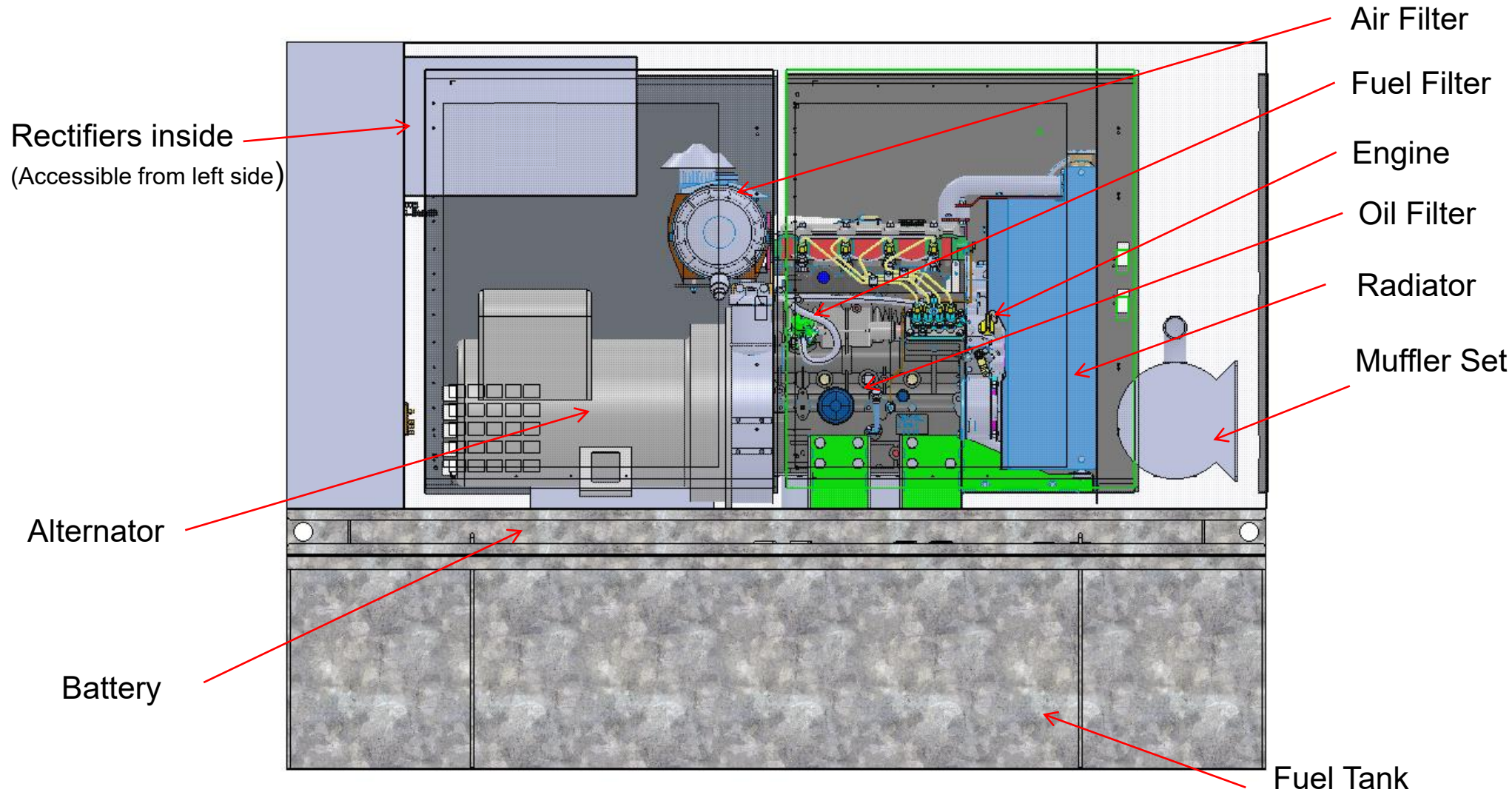
220 Gallon Tank Dimensions 15kW or 25kW DC Genset



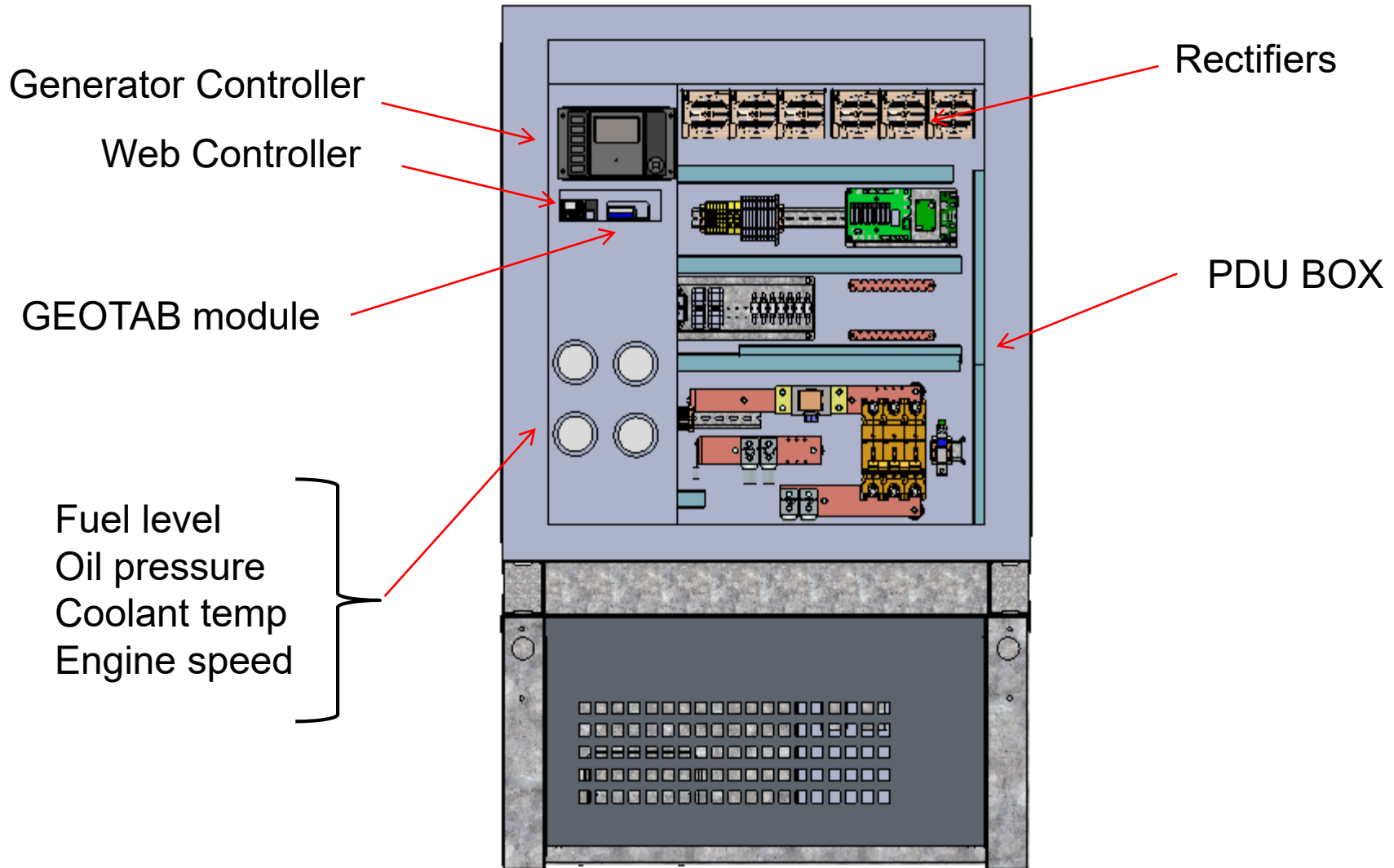
220 gallon fuel tank

| Upgraded Tank | 15kW @ 75% Load | 25kW @ 75% Load |
|---------------|-----------------|-----------------|
| 220 gallon | 155 hours | 120 hours |

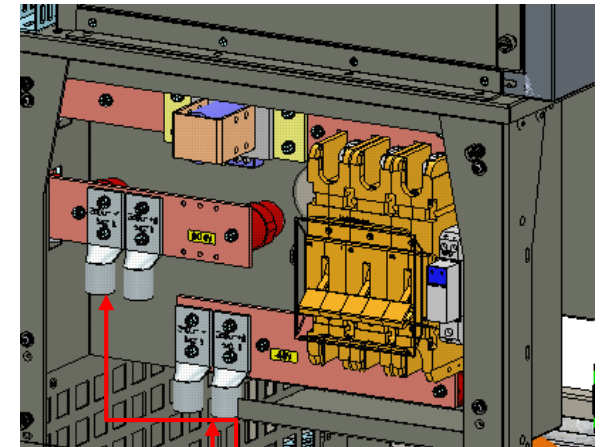
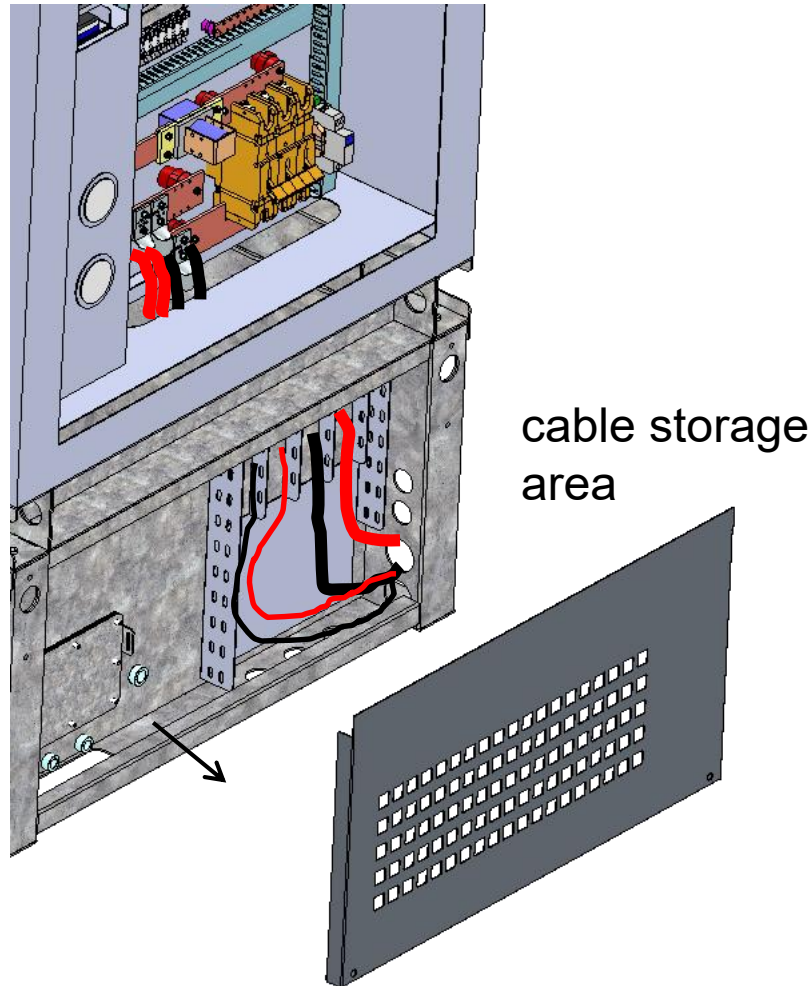
Generator Layout Front View



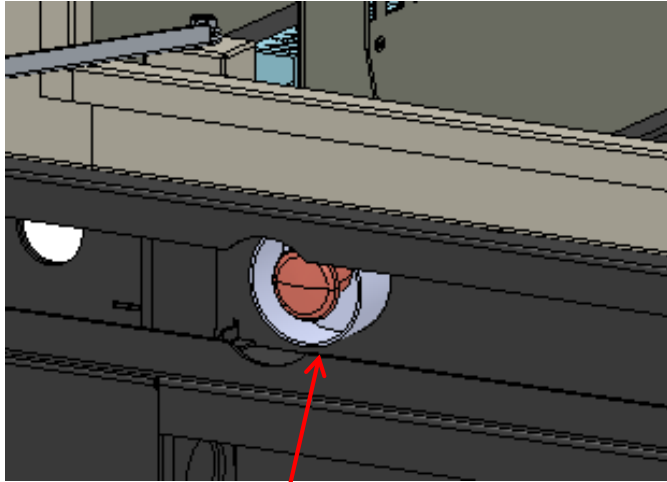
Left Side View



Cable Connections

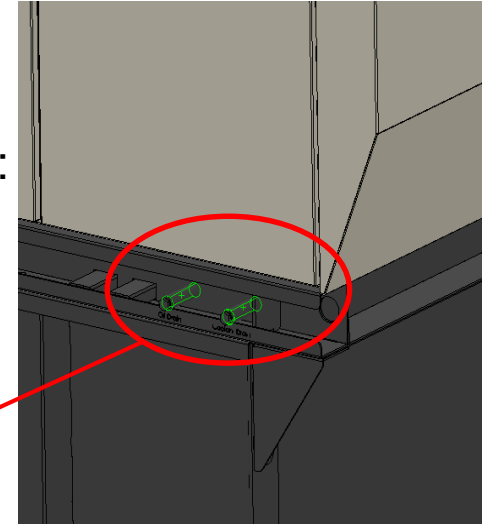
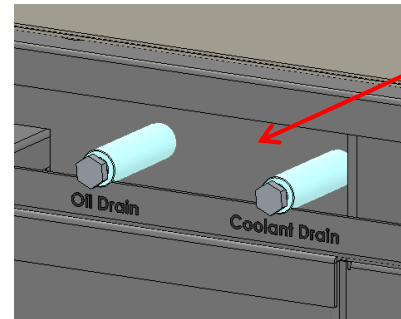


External Detail

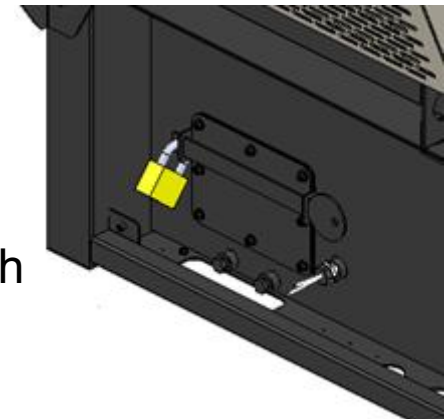


Front Bottom Left Side:
Emergency shutdown
switch externally mounted

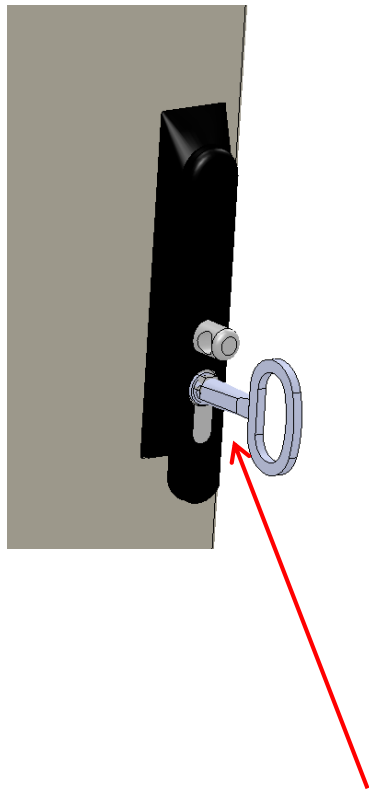
Front Bottom Right Side:
External coolant, and
oil drains with plugs



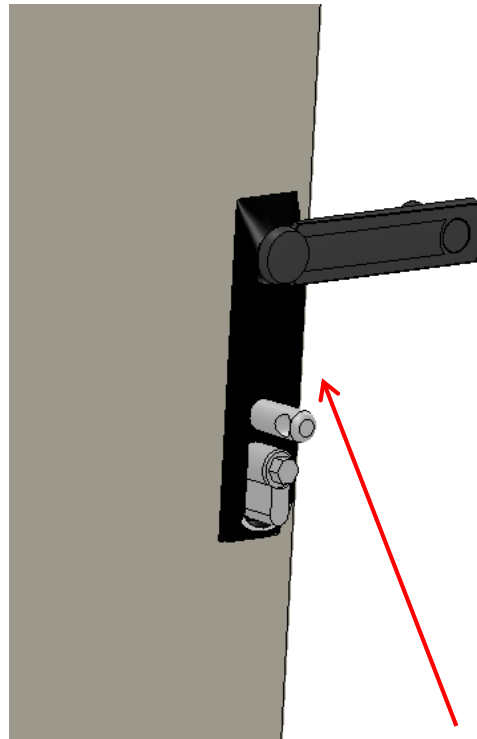
Right Side Panel:
Ball valve drain switch
inside with a padlock



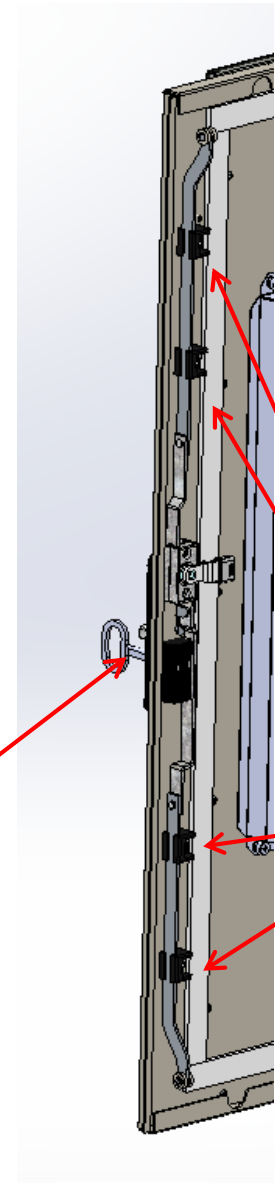
Higher Locking Method



twist key to release handle

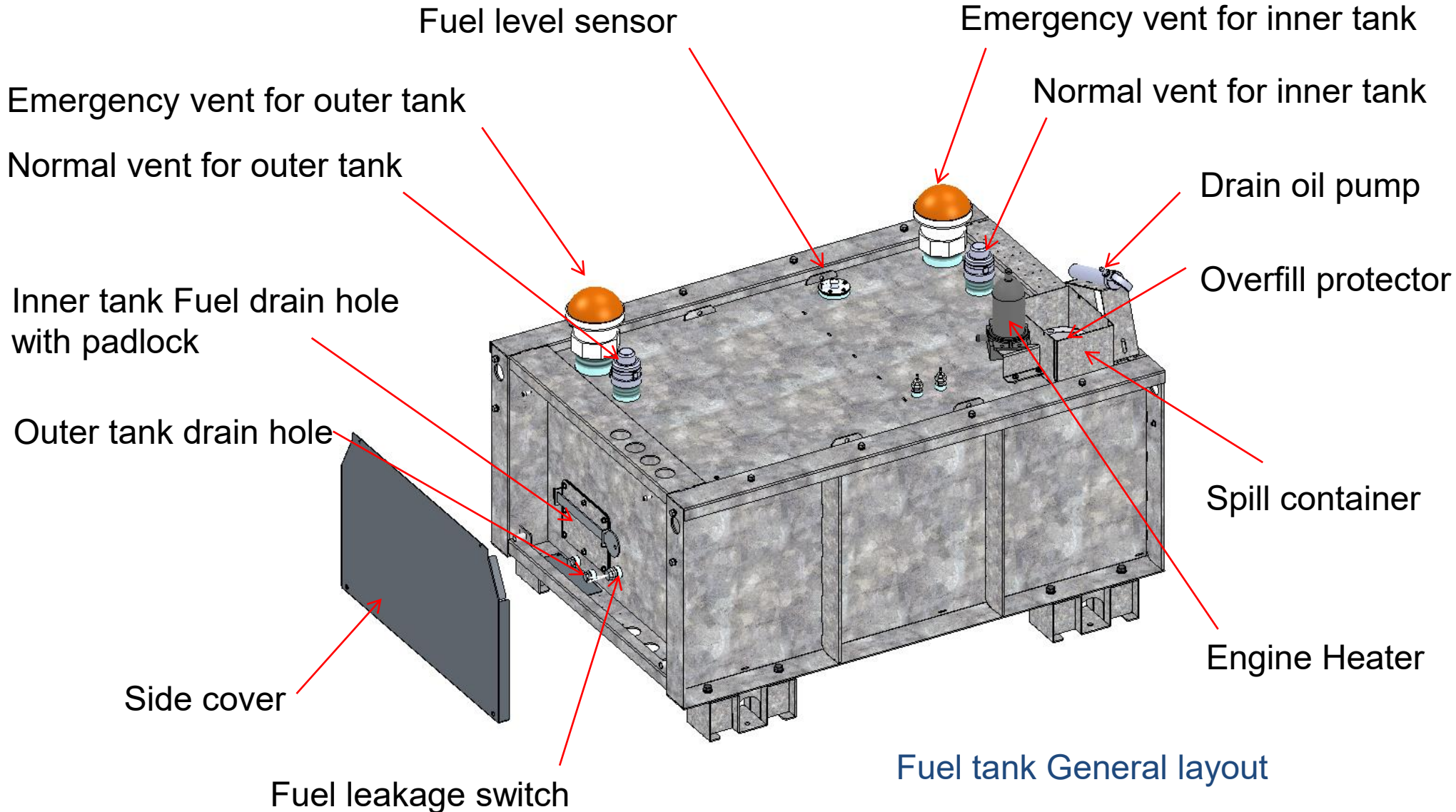


twist handle to release connecting bar

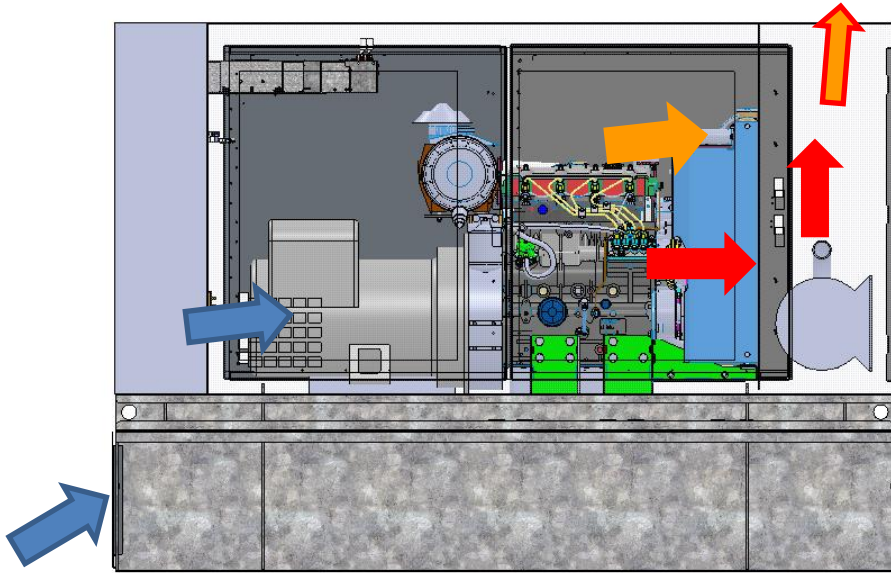


4 positions to lock the door

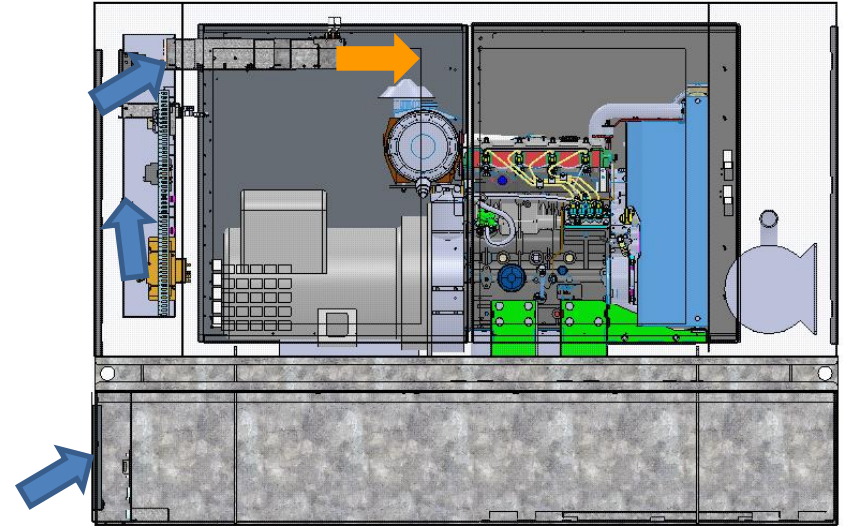
Fuel Tank Detail







Air Flow



**Front View
Air flow for engine**



**Front View
Air flow for Rectifier**

-  Cool air intake
-  Warm air exhaust
-  Hot air exhaust
-  Mixed cooler exhaust air

Controllers

Generator controller provides local user interface



IP controller provides WEB and SNMP via RJ45




Local User Interface

1 See next page for Screen shot



1. Controller LCD Display
2. Stop Button
3. Start Button
4. Manual Button ON/OFF DC Output Contactor
LED Indication – Run and Output connected.
5. Alarm reset
6. Skip Buzzer Button
7. Menu Button
8. Up/Down and Left/Right Direct Button
9. Enter Button

Local User Interface Screen

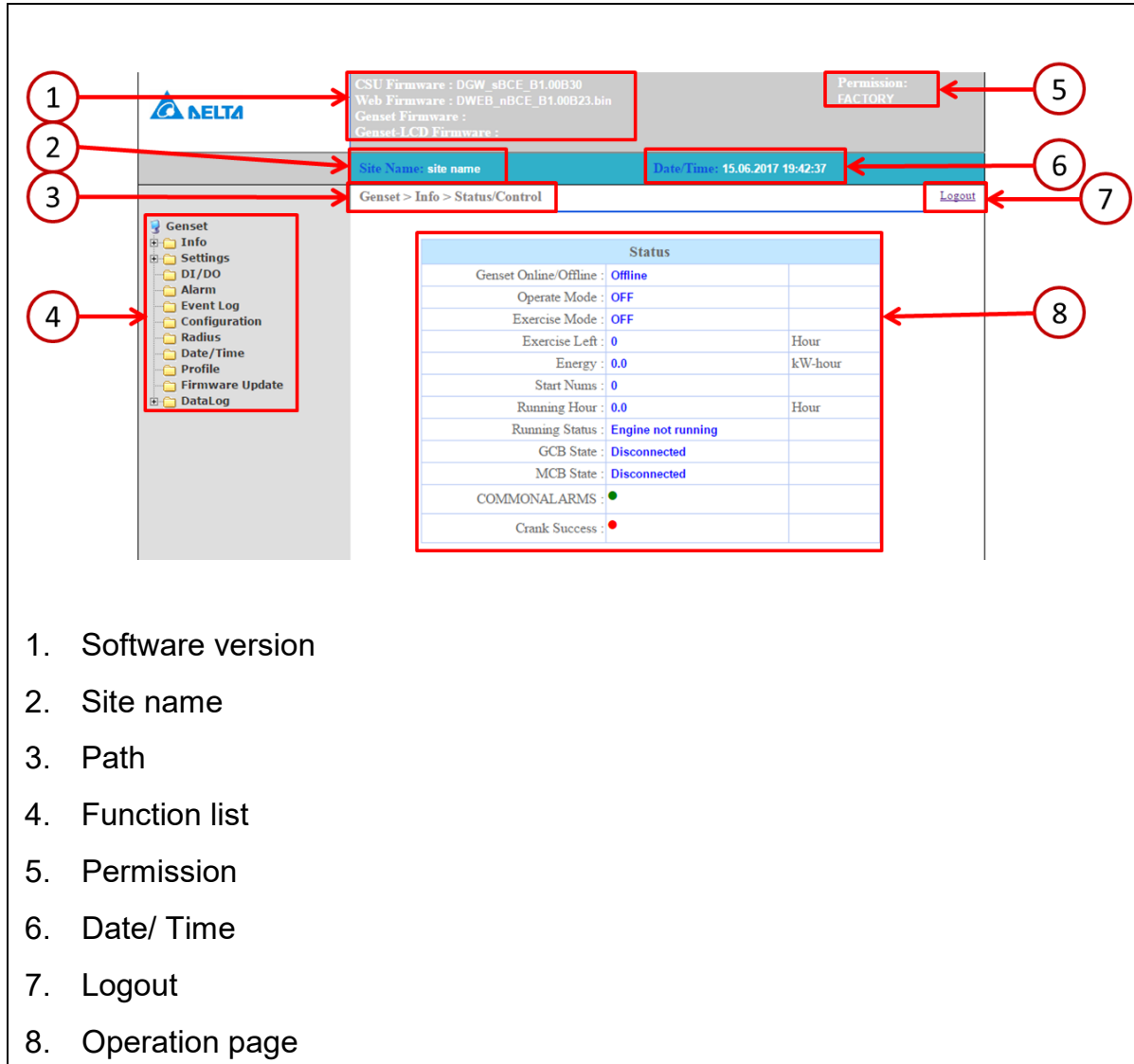


The screenshot displays a green LCD screen with the following information:

- 1. Generator output power: 0.0kW
- 2. Generator output voltage: 0.0V
- 3. Generator output current: 0.0A
- 4. Alternator output voltage: 0.0V
- 5. Operative mode: MANUAL
- 6. Running status: Brks Off, Not ready
- 7. Counter: Timer 0s
- 8. Speed: RPM 0

1. Generator output power
2. Generator output voltage
3. Generator output current
4. Alternator output voltage
5. Operative mode
6. Running status
7. Counter
8. Speed

WEB Interface



The screenshot shows the DELTA web interface with the following elements highlighted by numbered callouts:

- 1. Software version (CSU Firmware, Web Firmware, Genset Firmware, Genset-LCD Firmware)
- 2. Site name (Site Name: site name)
- 3. Path (Genset > Info > Status/Control)
- 4. Function list (Genset menu: Info, Settings, DI/DO, Alarm, Event Log, Configuration, Radius, Date/Time, Profile, Firmware Update, DataLog)
- 5. Permission (Permission: FACTORY)
- 6. Date/ Time (Date-Time: 15.06.2017 19:42:37)
- 7. Logout (Logout button)
- 8. Operation page (Status table)

| Status | |
|-------------------------|--------------------|
| Genset Online/Offline : | Offline |
| Operate Mode : | OFF |
| Exercise Mode : | OFF |
| Exercise Left : | 0 Hour |
| Energy : | 0.0 kW-hour |
| Start Num : | 0 |
| Running Hour : | 0.0 Hour |
| Running Status : | Engine not running |
| GCB State : | Disconnected |
| MCB State : | Disconnected |
| COMMONALARMS : | ● |
| Crank Success : | ● |

- Software version
- Site name
- Path
- Function list
- Permission
- Date/ Time
- Logout
- Operation page

Smarter. Greener. Together.

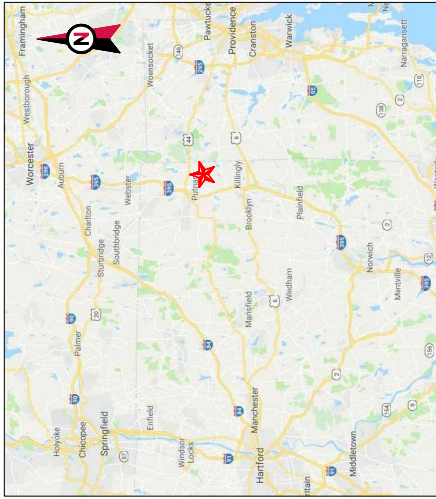
To learn more about Delta, please visit www.deltaww.com



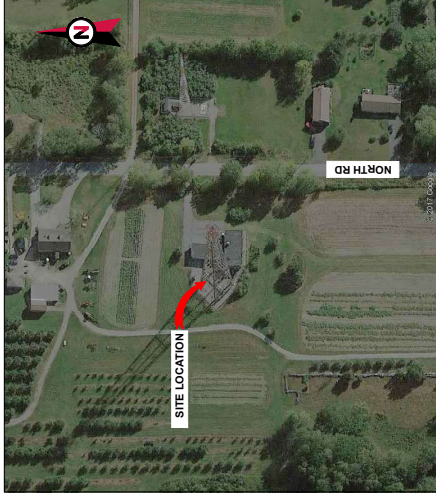


AMERICAN TOWER®

ATC SITE NAME: EAST KILLINGLY NORTH
 ATC SITE NUMBER: 88011
 T-MOBILE SITE ID: CTNL194
 SITE ADDRESS: 1375 NORTH ROAD
 DAYVILLE, CT 06241



VICINITY MAP



LOCATION MAP

AMERICAN TOWER®
 A.T. ENGINEERING SERVICE, PLLC
 3500 REGENCY PARKWAY
 SUITE 100
 CARY, NC 27518
 PHONE: (800) 268-0112
 COX: REC-0001583

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| REV. | DESCRIPTION | BY | DATE |
|------|----------------------|-----|----------|
| 1 | FOR CONSTRUCTION | AMM | 02/26/18 |
| 2 | ADD SAFETY CANOPY | AMM | 03/07/18 |
| 3 | REV. GEN. MODEL TYPE | AMM | 05/01/18 |

ATC SITE NUMBER:
88011
 ATC SITE NAME:
EAST KILLINGLY NORTH

SITE ADDRESS:
 1375 NORTH ROAD
 DAYVILLE, CT 06241



Authorized by "EOR"
 May 31 2018 4:43 PM



| | |
|--------------|----------|
| DRAWN BY: | AMM |
| APPROVED BY: | FPB |
| DATE DRAWN: | 02/26/18 |
| ATC JOB NO.: | 12203191 |

TITLE SHEET

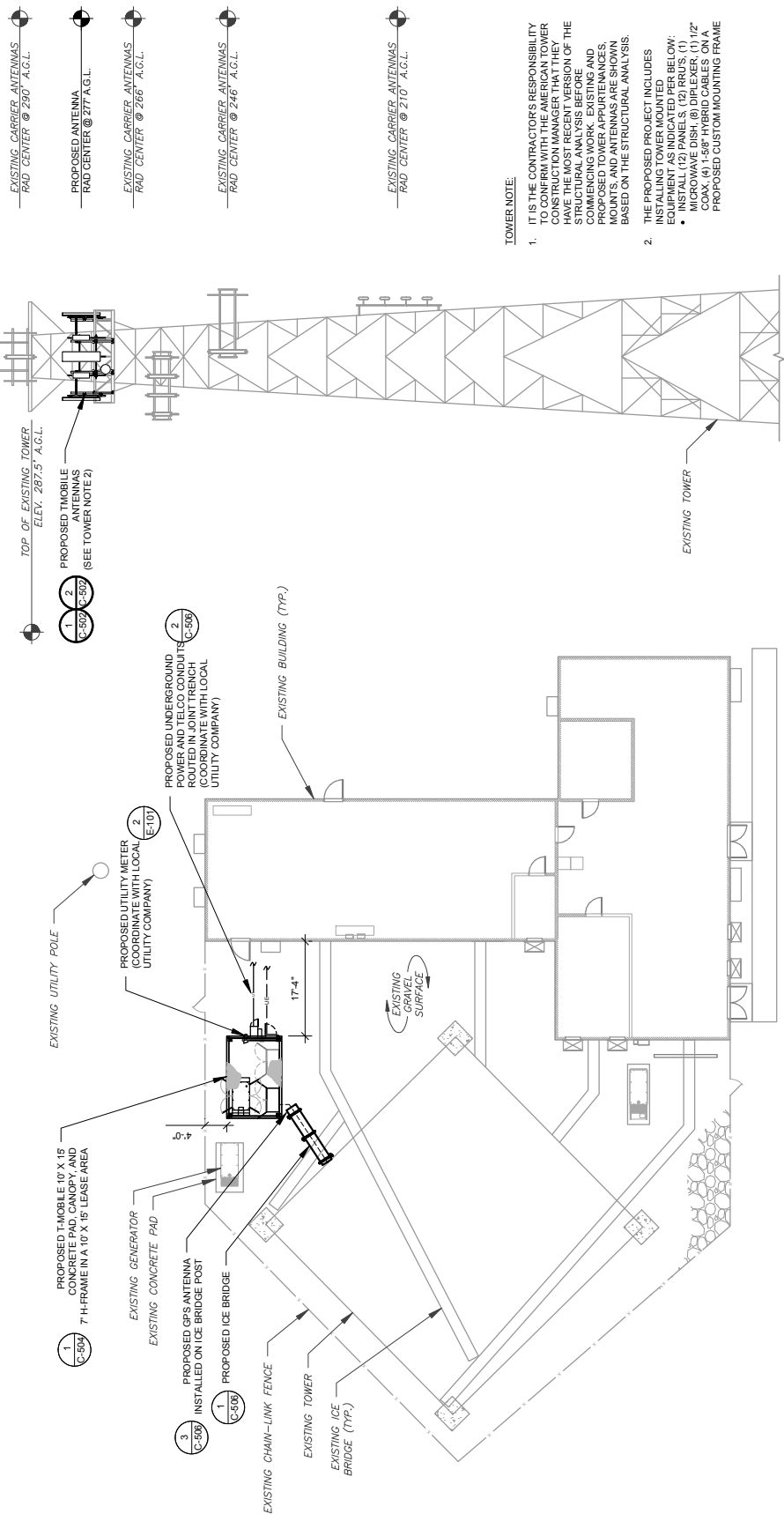
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|---------------|--------------|
| SHEET NUMBER: | G-001 |
| REVISION: | 2 |

| 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 INTENDED TO PERMIT WORK NOT CONFORMING TO THESE CODES.</p> <ol style="list-style-type: none"> INTERNATIONAL BUILDING CODE (IBC) NATIONAL ELECTRIC CODE (NEC) LOCAL BUILDING CODE CITY/COUNTY ORDINANCES | | <p>SITE ADDRESS: 1375 NORTH ROAD DAYVILLE, CT 06241 COUNTY: WINDHAM</p> <p>GEOGRAPHIC COORDINATES: LATITUDE: 41.87152 LONGITUDE: -71.82154 GROUND ELEVATION: 745 AMSL</p> | | <p>THE PROPOSED PROJECT INCLUDES PLACING A EQUIPMENT CABINET, GENERATOR ON A PROPOSED CONCRETE PAD AND PLACING NEW ANTENNAS AND A DISH ON A PROPOSED CUSTOM FRAME MOUNTED TO THE EXISTING TOWER CATWALK.</p> <p>PROJECT NOTES</p> <ol style="list-style-type: none"> THE FACILITY IS UNMANNED. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED. HANDICAP ACCESS IS NOT REQUIRED. | | <table border="1"> <thead> <tr> <th>DESCRIPTION</th> <th>REV.</th> <th>DATE</th> <th>BY:</th> </tr> </thead> <tbody> <tr> <td>TITLE SHEET</td> <td>2</td> <td>05/31/18</td> <td>AMM</td> </tr> <tr> <td>GENERAL NOTES</td> <td>0</td> <td>02/26/18</td> <td>AMM</td> </tr> <tr> <td>DETAILED SITE PLAN & TOWER ELEVATION</td> <td>2</td> <td>05/31/18</td> <td>AMM</td> </tr> <tr> <td>ANTENNA INFORMATION & SCHEDULE</td> <td>1</td> <td>03/07/18</td> <td>AMM</td> </tr> <tr> <td>ANTENNA MOUNTING DETAILS</td> <td>1</td> <td>03/07/18</td> <td>AMM</td> </tr> <tr> <td>ANTENNA MOUNTING DETAILS</td> <td>0</td> <td>02/26/18</td> <td>AMM</td> </tr> <tr> <td>CONSTRUCTION DETAILS</td> <td>2</td> <td>05/31/18</td> <td>AMM</td> </tr> <tr> <td>CONSTRUCTION DETAILS</td> <td>1</td> <td>03/07/18</td> <td>AMM</td> </tr> <tr> <td>CONSTRUCTION DETAILS</td> <td>1</td> <td>03/07/18</td> <td>AMM</td> </tr> <tr> <td>GROUNDING PLAN AND SCHEMATIC</td> <td>2</td> <td>05/31/18</td> <td>AMM</td> </tr> <tr> <td>GROUNDING DETAILS</td> <td>0</td> <td>02/26/18</td> <td>AMM</td> </tr> <tr> <td>SUPPLEMENTAL</td> <td></td> <td></td> <td></td> </tr> <tr> <td>SUPPLEMENTAL</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | DESCRIPTION | REV. | DATE | BY: | TITLE SHEET | 2 | 05/31/18 | AMM | GENERAL NOTES | 0 | 02/26/18 | AMM | DETAILED SITE PLAN & TOWER ELEVATION | 2 | 05/31/18 | AMM | ANTENNA INFORMATION & SCHEDULE | 1 | 03/07/18 | AMM | ANTENNA MOUNTING DETAILS | 1 | 03/07/18 | AMM | ANTENNA MOUNTING DETAILS | 0 | 02/26/18 | AMM | CONSTRUCTION DETAILS | 2 | 05/31/18 | AMM | CONSTRUCTION DETAILS | 1 | 03/07/18 | AMM | CONSTRUCTION DETAILS | 1 | 03/07/18 | AMM | GROUNDING PLAN AND SCHEMATIC | 2 | 05/31/18 | AMM | GROUNDING DETAILS | 0 | 02/26/18 | AMM | SUPPLEMENTAL | | | | SUPPLEMENTAL | | | | <p>TOWER OWNER: AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801</p> <p>ENGINEER: ATC TOWER SERVICES, LLC 3500 REGENCY PARKWAY SITE 100 CARY, NC 27518</p> <p>PROPERTY OWNER: SARGENT AND GREENLEAF INC SECURITY DRIVE NICHOLSVILLE, KY 40396</p> | |
| DESCRIPTION | REV. | DATE | BY: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TITLE SHEET | 2 | 05/31/18 | AMM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GENERAL NOTES | 0 | 02/26/18 | AMM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DETAILED SITE PLAN & TOWER ELEVATION | 2 | 05/31/18 | AMM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANTENNA INFORMATION & SCHEDULE | 1 | 03/07/18 | AMM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANTENNA MOUNTING DETAILS | 1 | 03/07/18 | AMM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANTENNA MOUNTING DETAILS | 0 | 02/26/18 | AMM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONSTRUCTION DETAILS | 2 | 05/31/18 | AMM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONSTRUCTION DETAILS | 1 | 03/07/18 | AMM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| GROUNDING PLAN AND SCHEMATIC | 2 | 05/31/18 | AMM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GROUNDING DETAILS | 0 | 02/26/18 | AMM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SUPPLEMENTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SUPPLEMENTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>UTILITY COMPANIES</p> <p>POWER COMPANY: CT LIGHT & POWER PHONE: (800) 286-2000</p> <p>TELEPHONE COMPANY: FRONTIER COMMUNICATIONS PHONE: (800) 921-9102</p> | | <p>PROJECT TEAM</p> <p>APPLICANT: T-MOBILE NORTHEAST LLC 12050 BALTIMORE AVENUE BELTSVILLE, MD 20705</p> <p>CARRIER CONTACT: PATRICK RIORDAN (771) 645-9523</p> | | <p>PROJECT LOCATION DIRECTIONS</p> <p>FROM WORCESTER, MA: TAKE ROUTE 98S TO EXIT 97 AT END OF THE RAMP. TAKE A LEFT TURN ON ROUTE 98S AND TAKE THE FIRST RIGHT ON GOVERNMENT STREET. TAKE A LEFT TURN ON TO PUTNAM ROAD. AT THE 3RD STOP SIGN, TAKE A LEFT TURN FOR NORTH ROAD ON YOUR RIGHT. TAKE NORTH ROAD. TOWER IS ON THE RIGHT.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



SITE PLAN NOTES:

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



2 TOWER ELEVATION
 SCALE: NOT TO SCALE

TOWER NOTE:

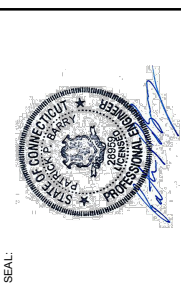
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE AMERICAN TOWER CONSTRUCTION MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED ANTENNAS, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS.
- THE PROPOSED PROJECT INCLUDES INSTALLATION OF THE FOLLOWING EQUIPMENT AS INDICATED PER BELOW:
 - MICROWAVE DISH, (8) DIPLEXER, (1) 1/2" COAX, (4) 1-5/8" HYBRID CABLES ON A PROPOSED CUSTOM MOUNTING FRAME

AMERICAN TOWER
 A.T. ENGINEERING SERVICE, PLLC
 3500 REGENCY PARKWAY
 SUITE 100
 DAYVILLE, CT 06248
 PHONE: (860) 684-0112
 COX: REC-0001583

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| REV. | DESCRIPTION | BY | DATE |
|------|---------------------|-----|----------|
| A | FOR CONSTRUCTION | AMM | 02/26/18 |
| A | ADD SAFETY CANOPY | AMM | 03/07/18 |
| A | RELY GEN MODEL TYPE | AMM | 05/01/18 |

ATC SITE NUMBER:
88011
 ATC SITE NAME:
EAST KILLINGLY NORTH
 SITE ADDRESS:
 1375 NORTH ROAD
 DAYVILLE, CT 06241



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|--------------|----------|
| DRAWN BY: | AMM |
| APPROVED BY: | FPB |
| DATE DRAWN: | 02/26/18 |
| ATC JOB NO.: | 12203191 |

DETAILED SITE PLAN & TOWER ELEVATION

| | |
|---------------|--------------|
| SHEET NUMBER: | C-101 |
| REVISION: | 2 |

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| REV. | DESCRIPTION | BY | DATE |
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| 1 | FOR CONSTRUCTION | AMM | 02/26/18 |
| 2 | ADD SAFETY CANOPY | AMM | 03/07/18 |
| 3 | | | |
| 4 | | | |

ATC SITE NUMBER:
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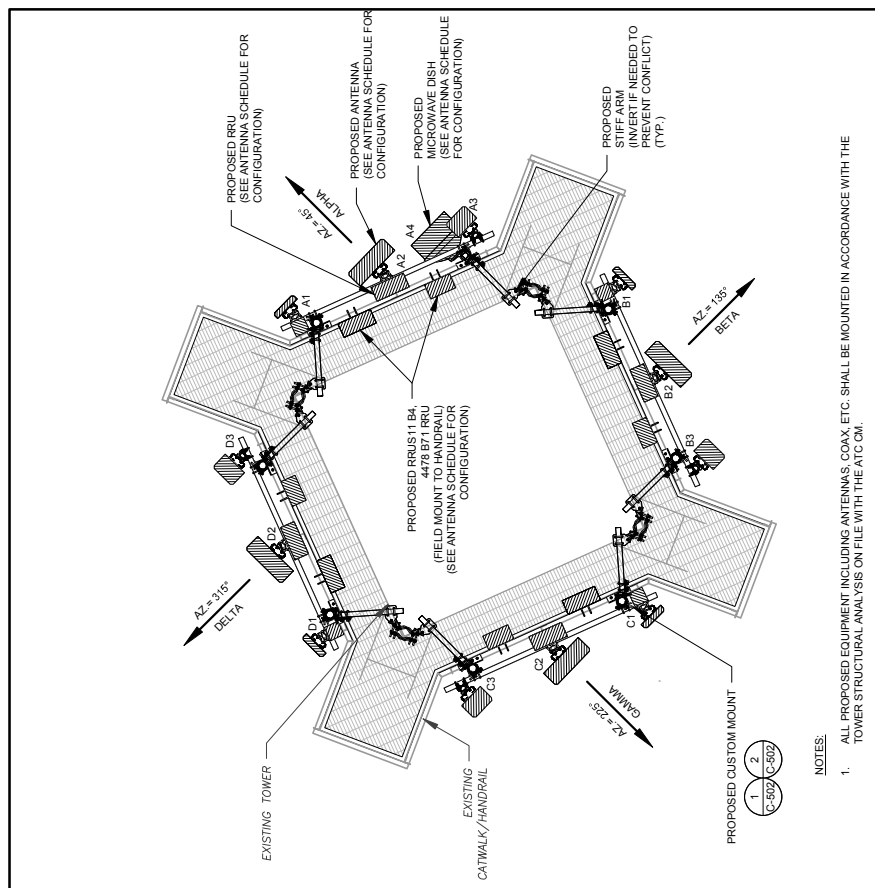
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|--------------|----------|
| DRAWN BY: | AMM |
| APPROVED BY: | PFB |
| DATE DRAWN: | 02/26/18 |
| ATC JOB NO.: | 12203191 |

ANTENNA INFORMATION & SCHEDULE

| | |
|---------------|--------------|
| SHEET NUMBER: | C-501 |
| REVISION: | 1 |



- NOTES:**
- ALL PROPOSED EQUIPMENT INCLUDING ANTENNAS, COAX, ETC. SHALL BE MOUNTED IN ACCORDANCE WITH THE TOWER STRUCTURAL ANALYSIS ON FILE WITH THE ATC ON.
 - SPACING OF PROPOSED EQUIPMENT SHALL BE CONFIRMED FOR TOWER CONFLICTS AND PROPOSED MOUNTS SHALL NOT IMPED TOWER CLIMBING PEGS.

2 PROPOSED ANTENNA PLAN

| FINAL ANTENNA COAX SCHEDULE | | | | | | | | | |
|-----------------------------|------|-----------------------|------------|-------------|--------------|--------------|------------------------------------|--------------------------|--|
| SECTOR | ANT. | PANEL MODEL # | RAD CENTER | AZMUTH (TN) | MECH. D-TILT | ELEC. D-TILT | ADDITIONAL TOWER MOUNTED EQUIPMENT | ANTENNA COAX DESCRIPTION | |
| ALPHA | A1 | AIR 32 B66AaB2a | 277'-0" | 45° | 0° | 2° | (2) CB08AETLQDS-43 | 1-58" HYB | |
| ALPHA | A2 | APXVA24_43-U-A20 | 277'-0" | 45° | 0° | 2° | RRUS11 B12 | - | |
| ALPHA | A3 | APX16DWW-16DWW6-E-A20 | 277'-0" | 45° | 0° | 2° | RRUS11 B4, 4478 B71 | - | |
| ALPHA | A4 | SHP2-13 | 277'-0" | 45° | 0° | 2° | - | 1/2" | |
| BETA | B1 | AIR 32 B66AaB2a | 277'-0" | 135° | 0° | 2° | (2) CB08AETLQDS-43 | 1-58" HYB | |
| BETA | B2 | APXVA24_43-U-A20 | 277'-0" | 135° | 0° | 2° | RRUS11 B12 | - | |
| BETA | B3 | APX16DWW-16DWW6-E-A20 | 277'-0" | 135° | 0° | 2° | RRUS11 B4, 4478 B71 | - | |
| GAMMA | C1 | AIR 32 B66AaB2a | 277'-0" | 225° | 0° | 2° | (2) CB08AETLQDS-43 | 1-58" HYB | |
| GAMMA | C2 | APXVA24_43-U-A20 | 277'-0" | 225° | 0° | 2° | RRUS11 B12 | - | |
| GAMMA | C3 | APX16DWW-16DWW6-E-A20 | 277'-0" | 225° | 0° | 2° | RRUS11 B4, 4478 B71 | - | |
| DELTA | D1 | AIR 32 B66AaB2a | 277'-0" | 315° | 0° | 2° | (2) CB08AETLQDS-43 | 1-58" HYB | |
| DELTA | D2 | APXVA24_43-U-A20 | 277'-0" | 315° | 0° | 2° | RRUS11 B12 | - | |
| DELTA | D3 | APX16DWW-16DWW6-E-A20 | 277'-0" | 315° | 0° | 2° | RRUS11 B4, 4478 B71 | - | |

1 ANTENNA SCHEDULE

1. BASED ON APPROVED ATC APPLICATION 00AX70744, DATED 01/22/18. CONFIRM WITH T-MOBILE REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RDS/B71 RADIOS AT PROPOSED RAD CENTER.
 2. PER STRUCTURAL ANALYSIS COAX TO BE TRIPLE STACKED ON TOWER FACE WITH LEAST AMOUNT OF EXISTING COAX.
 3. PER STRUCTURAL ANALYSIS COAX TO BE TRIPLE STACKED ON TOWER FACE WITH LEAST AMOUNT OF EXISTING COAX.



AMERICAN TOWER
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 SUITE 100
 DAYVILLE, CT 06241
 PHONE: (860) 668-0112
 COX. REC: 0001583

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| REV. | DESCRIPTION | BY | DATE |
|------|-------------------|-----|----------|
| 1 | FOR CONSTRUCTION | AMM | 02/26/18 |
| 2 | ADD SAFETY CANOPY | AMM | 03/07/18 |
| 3 | | | |
| 4 | | | |

ATC SITE NUMBER:
88011
 ATC SITE NAME:
EAST KILLINGLY NORTH

SITE ADDRESS:
 1375 NORTH ROAD
 DAYVILLE, CT 06241



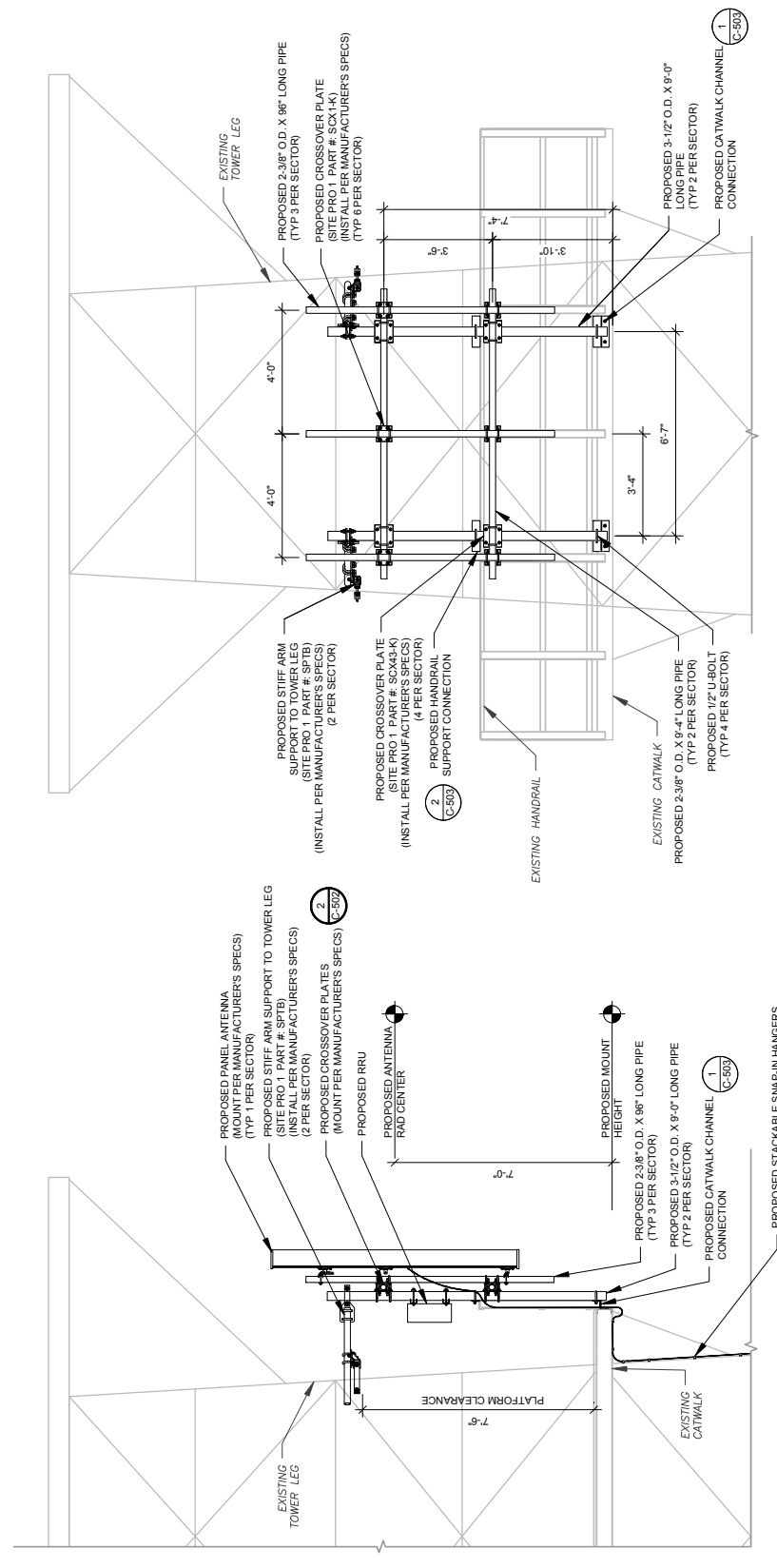
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| DRAWN BY: | AMM |
| APPROVED BY: | FPB |
| DATE DRAWN: | 02/26/18 |
| ATC JOB NO.: | 12203191 |

**ANTENNA MOUNTING
 DETAILS**

| | | | |
|---------------|--------------|-----------|----------|
| SHEET NUMBER: | C-502 | REVISION: | 1 |
|---------------|--------------|-----------|----------|



- NOTE:**
1. PORTION OF HANDRAIL REMOVED FOR CLARITY
 2. PER STRUCTURAL ANALYSIS CANOPY TO BE TRIPLE STACKED ON TOWER FACE WITH LEAST AMOUNT OF EXISTING COAX.
- NOTE:**
1. MICROWAVE DISH AND ANTENNAS NOT SHOWN FOR CLARITY

2 PROPOSED ANTENNA MOUNTING DETAIL (FRONT ELEVATION)
 SCALE: NOT TO SCALE

1 PROPOSED ANTENNA MOUNTING DETAIL (SIDE ELEVATION)
 SCALE: NOT TO SCALE



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| REV. | DESCRIPTION | BY | DATE |
|------|------------------|-----|----------|
| A | FOR CONSTRUCTION | AMM | 02/26/18 |
| | | | |
| | | | |
| | | | |

ATC SITE NUMBER:
88011

ATC SITE NAME:
EAST KILLINGLY NORTH

SITE ADDRESS:
1375 NORTH ROAD
DAYVILLE, CT 06241



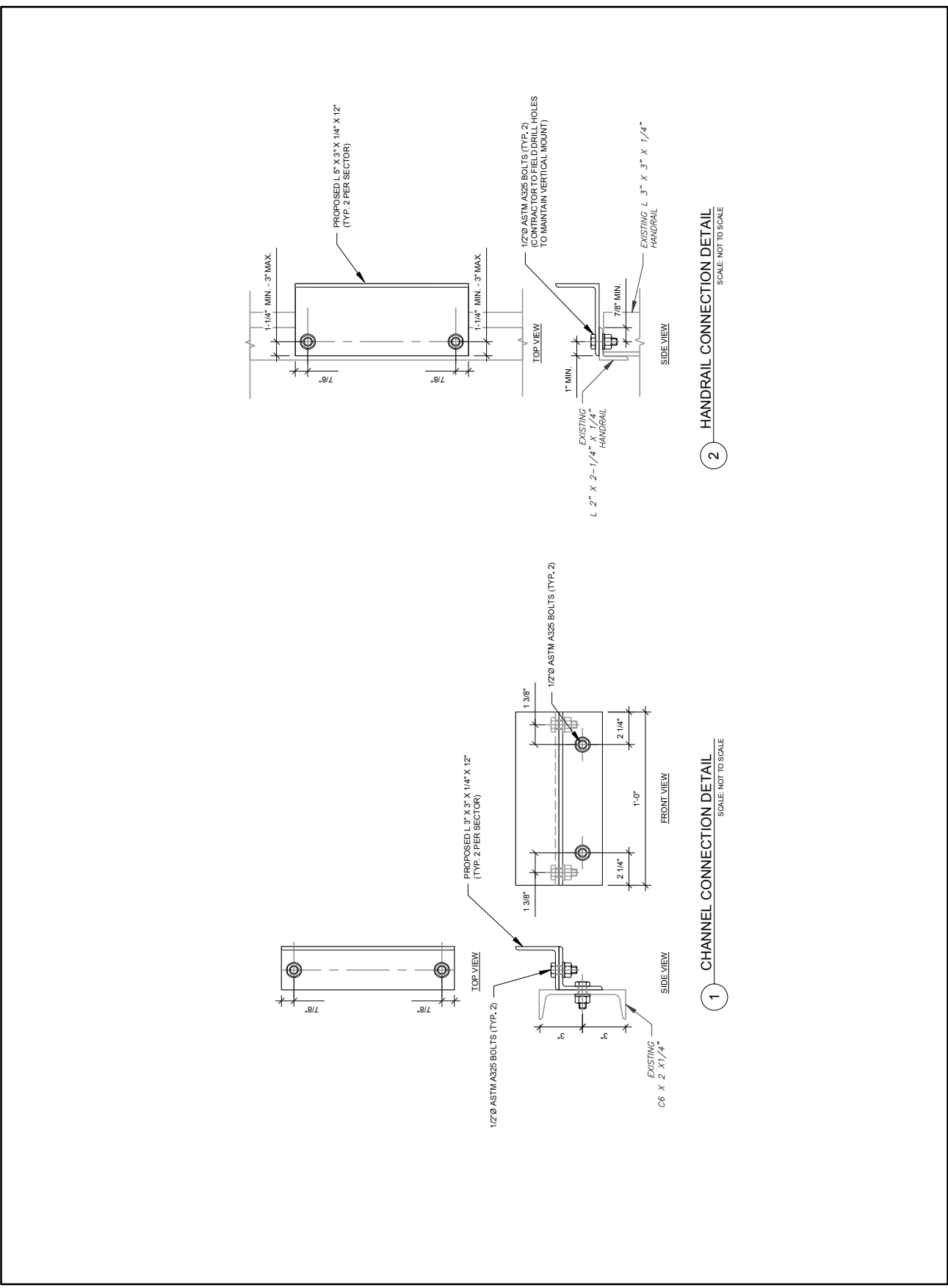
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| APPROVED BY: | FPB |
| DATE DRAWN: | 02/26/18 |
| ATC JOB NO.: | 12203191 |

**ANTENNA MOUNTING
DETAILS**

| | | | |
|---------------|--------------|-----------|----------|
| SHEET NUMBER: | C-503 | REVISION: | 0 |
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2 HANDRAIL CONNECTION DETAIL
SCALE: NOT TO SCALE

1 CHANNEL CONNECTION DETAIL
SCALE: NOT TO SCALE

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| 1 | FOR CONSTRUCTION | AMM | 02/26/18 |
| 2 | ADD SAFETY CANOPY | AMM | 03/07/18 |
| 3 | REV. GEN. MODEL TYPE | AMM | 05/01/18 |
| 4 | | | |
| 5 | | | |

ATC SITE NUMBER:
88011

ATC SITE NAME:
EAST KILLINGLY NORTH

SITE ADDRESS:
 1375 NORTH ROAD
 DAYVILLE, CT 06241



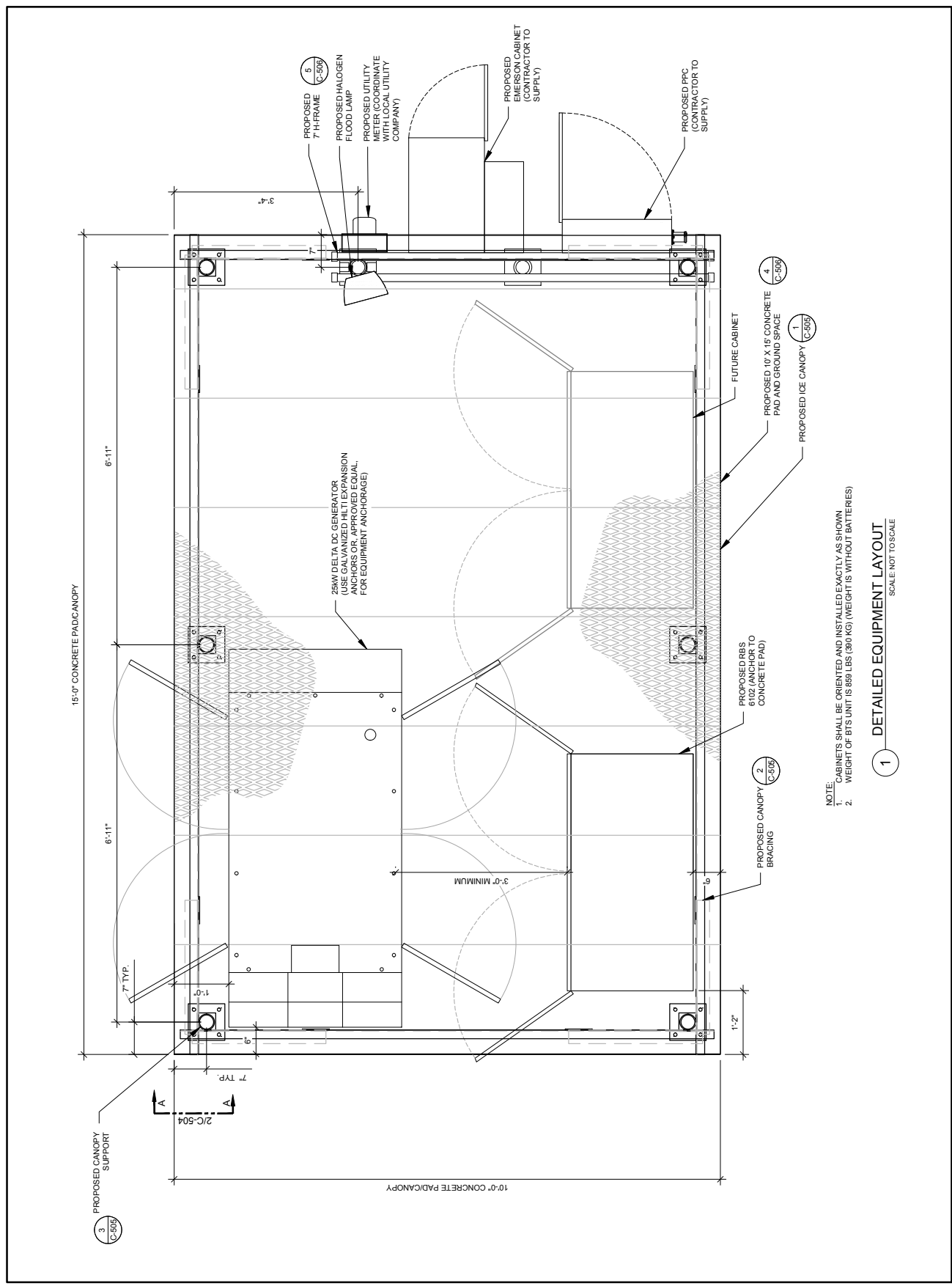
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| DRAWN BY: | AMM |
| APPROVED BY: | FPB |
| DATE DRAWN: | 02/26/18 |
| ATC JOB NO.: | 12203191 |

**CONSTRUCTION
 DETAILS**

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|---------------|--------------|
| SHEET NUMBER: | C-504 |
| REVISION: | 2 |



NOTE:
 1. CABINETS SHALL BE ORIENTED AND INSTALLED EXACTLY AS SHOWN
 2. WEIGHT OF BTS UNIT IS 859 LBS (390 KG) (WEIGHT IS WITHOUT BATTERIES)

1 DETAILED EQUIPMENT LAYOUT
 SCALE: NOT TO SCALE

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| 1 | FOR CONSTRUCTION | AMM | 02/26/18 |
| 2 | ADD SAFETY CANOPY | AMM | 03/07/18 |

ATC SITE NUMBER:
88011
 ATC SITE NAME:
EAST KILLINGLY NORTH

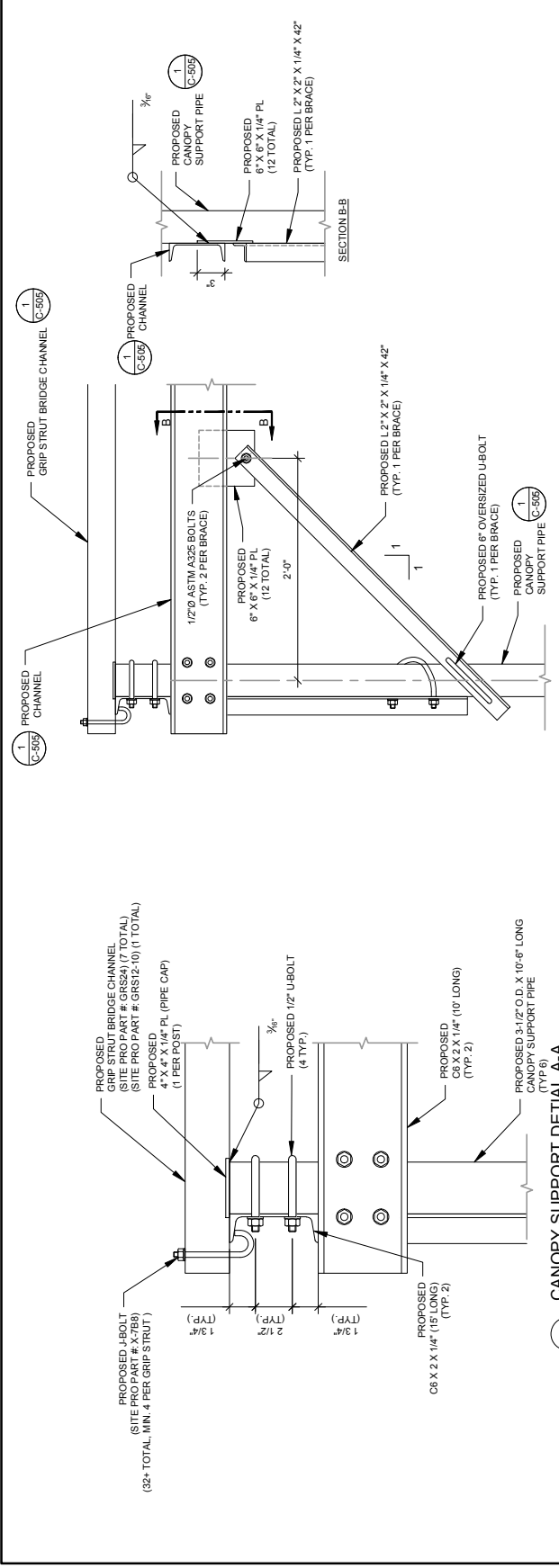
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SITE ADDRESS:
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| DATE DRAWN: | 02/26/18 |
| ATC JOB NO.: | 12203191 |

CONSTRUCTION DETAILS

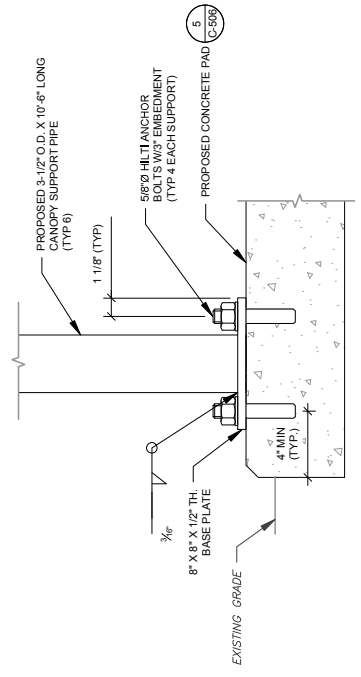
SHEET NUMBER:
C-505
 REVISION:
1



1 CANOPY SUPPORT DETAIL A-A
 SCALE: NOT TO SCALE

NOTE: EACH CANOPY POST SHALL HAVE (2) BRACES PER POST

2 CANOPY BRACING DETAIL
 SCALE: NOT TO SCALE



3 CANOPY SUPPORT/ANCHOR DETAIL
 SCALE: NOT TO SCALE



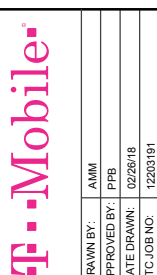
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| 1 | FOR CONSTRUCTION | AMM | 02/26/18 |
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ATC SITE NUMBER: **88011**
 ATC SITE NAME: **EAST KILLINGLY NORTH**
 SITE ADDRESS: **1375 NORTH ROAD DAYVILLE, CT 06241**

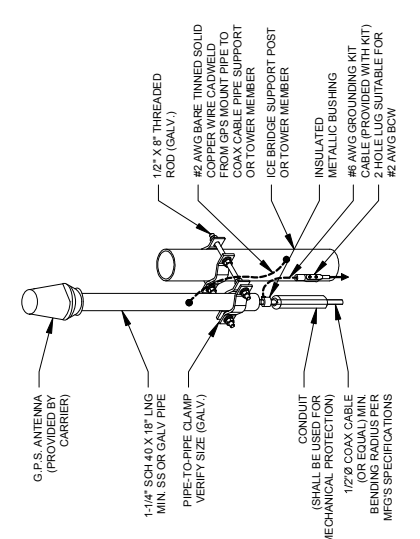


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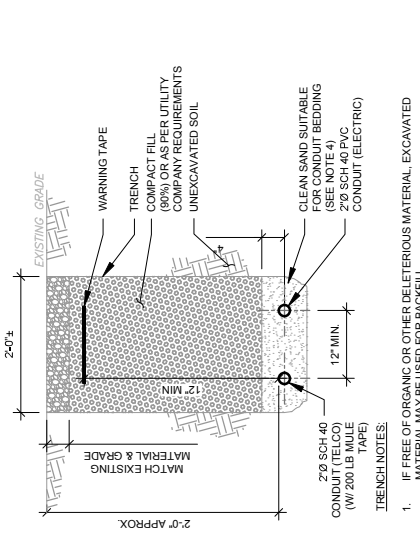
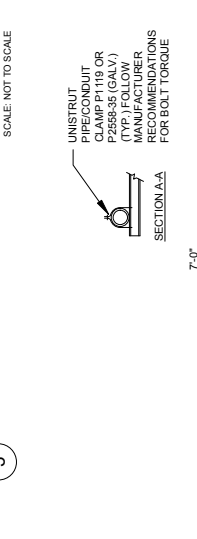


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| DRAWN BY: | AMM |
| APPROVED BY: | FPB |
| DATE DRAWN: | 02/26/18 |
| ATC JOB NO.: | 12203191 |

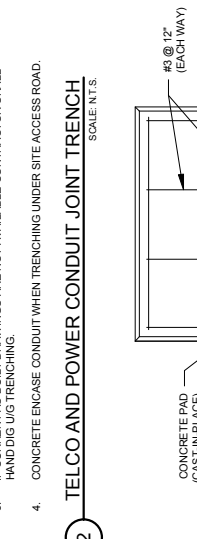
CONSTRUCTION DETAILS
 SHEET NUMBER: **C-506**
 REVISION: **1**



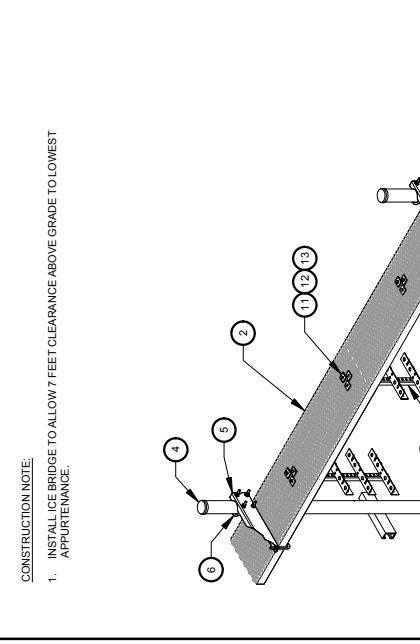
- NOTE:
 1. GPS SHALL BE PLACED WITH CLEAR SIGHT LINE TO THE SOUTHERN SKY.
 2. CONTRACTOR TO SUPPLY COAX FOR GPS UNIT.



- TRENCH NOTES:
 1. IF FREE OF ORGANIC OR OTHER DELETERIOUS MATERIAL, EXCAVATED MATERIAL MAY BE USED FOR BACKFILL.
 2. IF NOT, PROVIDE CLEAN, COMPACTIBLE MATERIAL, COMPACT IN 8\"/>



- PAD NOTES:
 1. ORGANIC AND FILL SHALL BE REMOVED.
 2. COMPACT SUBGRADE TO 95% IN ACCORDANCE WITH ATC SOEC 312000.3.20C.
 3. USE GRADE-ADJUSTED HILTI EXPANSION ANCHORS OR, APPROVED EQUAL, FOR EQUIPMENT.
 4. FRS SIZE AND LOCATION OF ANCHORS AND OTHER REQUIREMENT, SEE EQUIPMENT VENDOR DRAWINGS.
 5. DETAIL FOR ILLUSTRATIVE PURPOSES ONLY. MAINTAIN REBAR SPACING 12\"/>



| ITEM | PART NUMBER | DESCRIPTION | ITEM | PART NUMBER | DESCRIPTION |
|------|-----------------|---------------------------|------|-------------|-------------|
| 1 | MF126.01 MF-130 | 10\"/> | | | |
| 2 | WB-CV210 | SAFETY GRATING 24\"/> | | | |
| 3 | WBK110BHK | HARDWARE KIT (ITEMS 4-16) | 11 | GB-03205 | 3/8\"/> |
| 4 | P-C-004 | PIPE CAP 3-1/2\"/> | | | |
| 5 | WB1243.08 | 24\"/> | | | |
| 6 | GUB-0366 | 1/2\"/> | | | |
| 7 | WB-JB-6 | 1/2\"/> | | | |
| 8 | GW-F-04 | 1/2\"/> | | | |

- CONTRACTOR SHALL USE PARTS MANUFACTURED BY COMMSCOPE OR APPROVED EQUIVALENT. *BASE SHOE NOT INCLUDED IN WB-K210-B KIT. ORDER COLUMN SEPARATELY OR KIT-WB-K210-S.

CONSTRUCTION NOTE:
 1. INSTALL ICE BRIDGE TO ALLOW 7 FEET CLEARANCE ABOVE GRADE TO LOWEST APPROXIMATE.

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| 2 | ADD SAFETY CANOPY | AMM | 03/07/18 |
| 3 | RELY GEN MODEL TYPE | AMM | 05/01/18 |
| 4 | | | |
| 5 | | | |
| 6 | | | |

ATC SITE NUMBER:
88011
ATC SITE NAME:
EAST KILLINGLY NORTH

SITE ADDRESS:
1375 NORTH ROAD
DAYVILLE, CT 06241



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| DATE DRAWN: | 02/26/18 |
| ATC JOB NO.: | 12203191 |

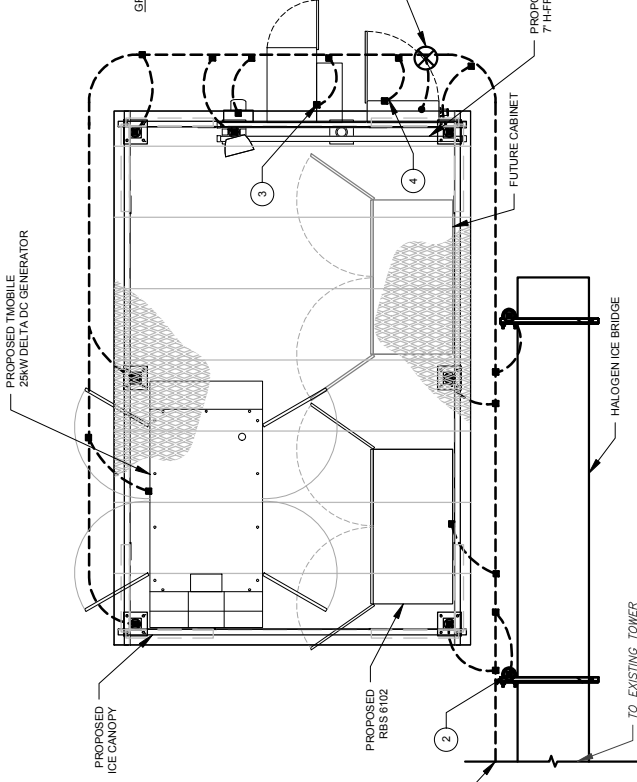
GROUNDING PLAN AND SCHEMATIC

| | |
|---------------|--------------|
| SHEET NUMBER: | E-101 |
| REVISION: | 2 |

GROUNDING PLAN LEGEND:



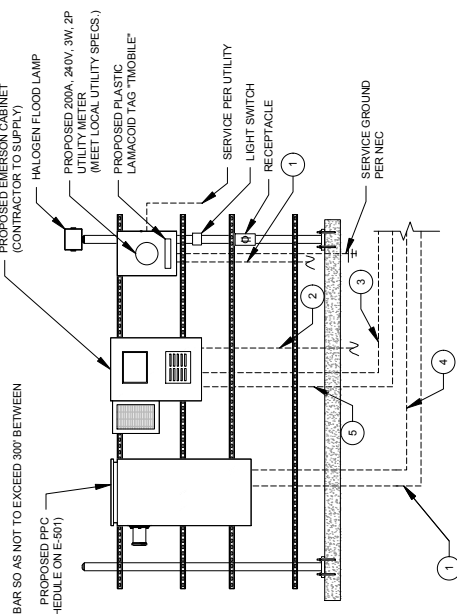
- GROUNDING KEYED NOTES:**
- 560" X 10 FT GROUND ROD.
 - #2 AWG BOND FROM VERTICAL ICEBRIDGE POST TO EXTERNAL GROUND RING (TYP. EVERY POST).
 - #2 AWG SBCT BOND FROM TOWER GROUND RING TO EQUIPMENT.
 - GROUNDING ELECTRODE CONDUCTOR (GEC) AND GROUNDING ELECTRODE SIZED PER NEC OR AS OTHERWISE INDICATED.
 - BOND TO TOWER GROUND RING.
 - #2 AWG BOND FROM MJB TO GROUND RING.



1 DETAILED GROUNDING PLAN
SCALE: NOT TO SCALE

GROUNDING NOTES:

- ALL EQUIPMENT ENCLOSURES, DEVICES AND CONDUITS SHALL BE GROUNDED TO CONFORM WITH THE LATEST REQUIREMENTS OF THE NEC BY THE INSTALLATION OF A SEPARATE, GREEN INSULATED GROUND CONDUCTOR FOR ALL FEEDER AND BRANCH CIRCUITS. GROUND CONDUCTORS SHALL BE OF THE SIZE INDICATED ON THE DRAWINGS. ALL CONDUITS SHALL BE BONDING CONDUCTORS. ALL CONDUITS SHALL BE BONDED TO EACH ENCLOSURE THEY PASS THROUGH. CONDUIT SHALL NOT BE USED AS A GROUNDING CIRCUIT.
LIGHTNING AND SURGE PROTECTION:
1. GROUNDING CONDUCTORS SHALL:
A. BE #2 AWG SOLID BARE TINNED COPPER (BCTC) FOR ALL GROUNDING SYSTEM WIRE UNLESS OTHERWISE NOTED, OR OTHERWISE REQUIRED BY CODE.
B. BE MINIMUM 1/2" BEND RADIUS. KEEP NUMBER OF BENDS TO A MINIMUM.
C. BE MINIMUM 1/2" BEND RADIUS. MAKE DIRECT AS POSSIBLE.
D. NOT HAVE ANY U-SHAPED BENDS.
E. BE IN NON-METALLIC CONDUIT ONLY, IF IN CONDUIT.
F. BE PLACED THROUGH NON-METALLIC SLEEVES IN FLOORS, WALLS, CEILING, ETC.
G. PROTECTED IN NON-METALLIC CONDUIT WHERE EXPOSED ABOVE GRADE.
2. INSTALL ALL GROUNDING RINGS AND RADIALS WITH CONDUCTIVE CEMENT, PER NEC, AND TO BE INSTALLED TO THE MANUFACTURER'S LISTED, CT SPECIFICATIONS OR AS SPECIFICALLY INDICATED. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
3. GROUND RINGS SHALL BE:
A. MINIMUM 30" BELOW GRADE, OR BELOW FROST LINE WHICHEVER IS DEEPER.
B. MINIMUM 2" FROM FOUNDATIONS, FOOTINGS, OTHER GROUNDING SYSTEMS AND ALL CONDUCTIVE OBJECTS.
C. WITH MINIMUM 1/2" BEND RADIUS.
D. NOT IN CONTACT WITH EARTH, BONDED BY EXOTHERMIC WELDING.
E. BONDED TO A SINGLE POINT GROUND (SPG) WITH A SINGLE WIRE AS INDICATED ON DRAWINGS.
4. GROUND RODS SHALL BE:
A. MINIMUM 5/8" DIAMETER.
B. MINIMUM 10' LONG.
C. COPPER-CLAD GALVANIZED STEEL OR STAINLESS STEEL.
D. INSTALLED WITH MINIMUM SEPARATION DISTANCE OF TWICE THE DEPTH OF THE ROD(S), OR AS INDICATED ON DRAWINGS.
E. MINIMUM TWO (2) RODS ON THE TOWER RING OR ONE (1) PER LEG WHICHEVER IS LARGER, MINIMUM FOUR (4) RODS ON EVERY EQUIPMENT BUILDING RING WITH ONE AT EACH CORNER OR AS INDICATED, MINIMUM ONE (1) ROD FOR POWER SERVICE GROUNDING ELECTRODE, AND MINIMUM ONE (1) ROD AT END OF EACH RADIAL.
5. CONDUCTIVE OBJECTS, SUCH AS FENCES, SHALL BE BONDED TO THE GROUNDING SYSTEM AT WITHIN 20' OF THE TOWER GROUNDING SYSTEM, OR 5' OF ANY OTHER GROUNDED COMPONENT.
6. INSTALL ADDITIONAL TOWER GROUND BAR SO AS NOT TO EXCEED 300' BETWEEN GROUND BARS.
(SEE PANEL SCHEDULE ON E-501)



2 EQUIPMENT POWER AND TELCO SCHEMATIC
SCALE: N.T.S.

NOTE:
ALL EQUIPMENT'S SHORT-CIRCUIT CURRENT RATING SHALL EXCEED AVAILABLE FAULT CURRENT PER UTILITY.

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF AMERICAN TOWER AND SHALL BE REPRODUCED OR PUBLISHED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF AMERICAN TOWER. THE SPECIFIED CARRIER'S STRUCTURE, PROHIBITED TO BE REPRODUCED OR PUBLISHED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF AMERICAN TOWER. AMERICAN TOWER WILL NOT BE RESPONSIBLE FOR THE PROJECT'S PROGRESS OR DELAYS. CONTRACTORS MUST VERIFY ALL DIMENSIONS AND CONDITIONS OF THE SITE PRIOR TO CONSTRUCTION. THE ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION OF FILE WITH AMERICAN TOWER.

| REV. | DESCRIPTION | BY | DATE |
|------|------------------|-----|----------|
| 1 | FOR CONSTRUCTION | AMM | 02/26/18 |
| | | | |
| | | | |
| | | | |

ATC SITE NUMBER:
88011
 ATC SITE NAME:
EAST KILLINGLY NORTH

SITE ADDRESS:
 1375 NORTH ROAD
 DAYVILLE, CT 06241



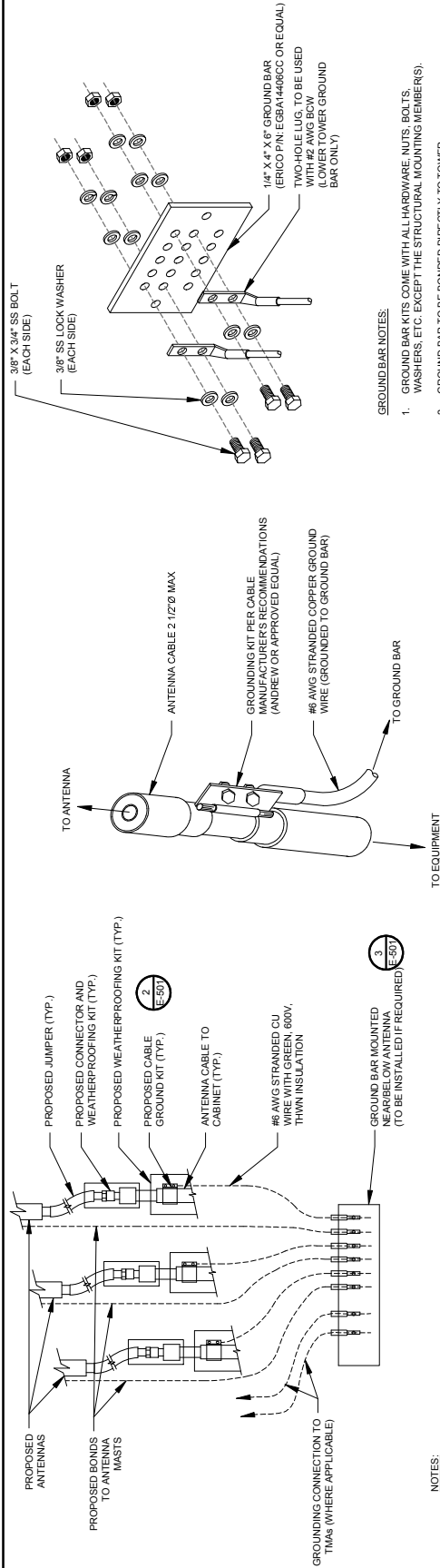
Authorized by "EOR"
 May 31 2018 4:48 PM **cosign**



DRAWN BY: AMM
 APPROVED BY: PFB
 DATE DRAWN: 02/26/18
 ATC JOB NO.: 12203191

GROUNDING DETAILS

SHEET NUMBER:
E-501
 REVISION:
0



- GROUND BAR NOTES:**
- GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBERS.
 - GROUND BAR TO BE BONDED DIRECTLY TO TOWER.

1 TYPICAL ANTENNA GROUNDING DIAGRAM
 SCALE: NOT TO SCALE

- GROUND KIT NOTES:**
- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
 - NUMBER 22 (23) AND INSTALL TAPE PER MANUFACTURER'S SPECIFICATIONS.

2 CABLE GROUND KIT CONNECTION DETAIL
 SCALE: NOT TO SCALE

- GROUND BAR NOTES:**
- GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBERS.
 - GROUND BAR TO BE BONDED DIRECTLY TO TOWER.

3 TOWER GROUND BAR DETAIL
 SCALE: NOT TO SCALE

| CONNECTED LOAD (KVA) | BRIEF DESCRIPTION | | FEEDER OR BRANCH CIRCUIT | | FEEDER OR BRANCH CIRCUIT | | FEEDER OR BRANCH CIRCUIT | | FEEDER OR BRANCH CIRCUIT | | CONNECTED LOAD (KVA) | | | |
|----------------------|-------------------|--------------|--------------------------|-------|--------------------------|------|--------------------------|----------|--------------------------|--------------|----------------------|-------|------|------|
| | A | B | AMPS | POLES | WIRE | GND | COND. | POLE NO. | CONEC. NO. | GND | WIRE | POLES | A | B |
| 9.60 | 9.60 | 61C2 Cabinet | 100 | 2 | 3-#1 | 1-#3 | 2" | 1 | 2 | 3/4" | 1-#12 | 2-#12 | 1 | 15 |
| 0.00 | 0.00 | | | | | | | 3 | 4 | 3/4" | 1-#12 | 2-#12 | 1 | 15 |
| 0.00 | 0.00 | | | | | | | 5 | 6 | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | | | 7 | 8 | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | | | 9 | 10 | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | | | 11 | 12 | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | | | 13 | 14 | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | | | 15 | 16 | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | | | 17 | 18 | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | | | 19 | 20 | | | | 0.00 | 0.00 |
| 9.6 | 9.6 | | | | | | | A | B | TOTAL | | | 0.2 | 0.5 |
| | | | | | | | | 9.8 | 10.1 | 19.9 | | | | |
| | | | | | | | | 9.8 | 10.1 | 19.9 | | | | |

DERATING FACTOR (80%)
 DEMAND LOAD SIZING: 105 AMPS

4 PANEL SCHEDULE
 SCALE: NOT TO SCALE

CTNL194A_Coverage Strategy_0.1_draft

| | | |
|-------------------------------|---|----------------------------------|
| RAN Template: 4Sec-6797DB2 | A&L Template: 4Sec-6797DB2_1xAIR+2QP | Power System Template: Custom |
|-------------------------------|---|----------------------------------|

Section 5 - RAN Equipment

Existing RAN Equipment

----- This section is intentionally blank -----

Proposed RAN Equipment

Template: 4Sec-6797DB2

| Enclosure | 1 | 2 |
|---------------------|--|--|
| Enclosure Type | RBS 6102 MU/AC | Ancillary Equipment |
| Baseband | DUW80 BB 5216 L2100 L2100 L1900 L700 L800 | |
| Hybrid Cable System | | Ericsson 6x12 HCS *Select Length & AWG* (x4) |
| Multiplexer | XMU L2100 L1900 L700 L600 | |

RAN Scope of Work:

1 CABINET CONFIGURATION
SCALE: NOT TO SCALE

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

SUPPLEMENTAL

SHEET NUMBER:
R-602

REVISION:
0