



AMERICAN TOWER®

ATC SITE NAME: CALHAN CO ATC SITE NUMBER: 88795 T-MOBILE SITE NAME: ATC_CALHAN_LMU T-MOBILE SITE NUMBER: DN04231A SITE ADDRESS: 11610 HAHN RD CALHAN, CO 80808-9242



Please make sure and depict the same address for this location for the project:

- 11598 Hahn Rd

T-MOBILE ANCHOR AMENDMENT PLAN 56791EZ_SR_U21 CONFIGURATION

| COMPLIANCE CODE | PROJECT | SUMMARY | PROJECT DESCRIPTION | | SHEET INDEX | | | |
|--|---|---|--|-----------|---------------------------------------|------|----------|------|
| ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE | | DDRESS: | THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW: | SHEET NO: | DESCRIPTION: | REV: | DATE: | BY: |
| FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO | CALHAN,C | HAHN RD O 80808-9242 | TOWER WORK: REMOVE (3) FFHH-65C-R3 ANTENNA(s), (3) AHFIB RRH(s), (1) MICROWAVE, (1) GENERIC RADIO/ODU, (1) 1-5/8° COAX CABLE AND EXISTING ANTENNA | G-001 | TITLE SHEET | 0 | 03/11/22 | MLDV |
| THESE CODES. | COUNTY | C EL PASO | MOUNT INSTALL (3) AEHC ANTENNA(s), (3) FFVV-65C-R3-V1 ANTENNA(s), (3) AHFIG | G-002 | GENERAL NOTES | 0 | 03/11/22 | MLDV |
| 1. 2021 INTERNATIONAL BUILDING CODE 2. 2021 INTERNATIONAL MECHANICAL CODE | GEOGRAPHIC | COORDINATES: | RRH(s), (2) HELIAX FIBERFEED 12 RRU PENDANT CONNECT, (1) HCS 2.0 TRUNK CABLE(s) AND PV-SFA12-3-3-96-9-278X126 ANTENNA MOUNT | C-101 | DETAILED SITE PLAN | 0 | 03/11/22 | MLDV |
| 3. 2021 INTERNATIONAL ENERGY CONSERVATION CODE | | 38.99910833 | EXISTING (3) AHLOA RRH(s), (11) 1-5/8" COAX CABLES AND (1) HCS 2.0 TRUNK CABLE(S) TO REMAIN | C-102 | DETAILED GROUND PLAN | 0 | 03/11/22 | MLDV |
| 4. 2021 INTERNATIONAL EXISTING BUILDING CODE 5. 2021 INTERNATIONAL FIRE CODE | | : -104.3135667 ATION: 6994' AMSL | GROUND WORK: | C-201 | TOWER ELEVATION | 0 | 03/11/22 | MLDV |
| 2021 INTERNATIONAL FIRE CODE 2021 INTERNATIONAL WILDLAND-URBAN INTERFACE CODE | | FORMATION: | EXISTING EQUIPMENT CABINETS TO BE REMOVED INSTALL DELTA HPL3 600A DC CABINET, DELTA LB3 BATTERY CABINET, GPS, | C-401 | ANTENNA INFORMATION & SCHEDULE | 0 | 03/11/22 | MLDV |
| 7. 2012 NFPA 101 LIFE SAFETY CODE 8. 2019 NFPA 13 | | DICTION COUNTY/CITY | ICE BRIDGE AND (1) JUNCTION BOX EXISTING BASEBAND (1) FSMF TO REMAIN | C-501 | CONSTRUCTION DETAILS | 0 | 03/11/22 | MLDV |
| 9. 2019 NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE | | 1703100074 | ADD (2) ASIB, (1) ASIL, (1) ABIA, (3) ABIC, (2) ABIO, (2) AMIA, (1) VOLTAGE BOOSTER, (1) EXTRA BOOSTER AMPLIFIER AND CSR-IXRE | C-502 | CONSTRUCTION DETAILS | 0 | 03/11/22 | MLDV |
| | | | (GEN2) REMOVE (1) ASIA, (1) ASIK, (1) ABIL AND (2) AMOB | E-501 | GROUNDING DETAILS | 0 | 03/11/22 | MLDV |
| | PROJE | CT TEAM | _ RFDS VERSION: 5 | E-601 | PANEL SCHEDULE & ELECTRICAL SCHEMATIC | 0 | 03/11/22 | MLDV |
| | TOWER OWNER: | APPLICANT: | | R-601 | SUPPLEMENTAL | 0 | 03/11/22 | MLDV |
| | AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801 | T-MOBILE | PROJECT NOTES | R-602 | SUPPLEMENTAL | 0 | 03/11/22 | MLDV |
| | | | THE FACILITY IS UNMANNED. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH | R-603 | SUPPLEMENTAL | 0 | 03/11/22 | MLDV |
| UTILITY COMPANIES | ENGINEER: | | FOR ROUTINE INSPECTION AND MAINTENANCE. 3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND | R-604 | SUPPLEMENTAL | 0 | 03/11/22 | MLDV |
| POWER COMPANY: MOUNTAIN VIEW ELECTRIC ASSOCIATION INC. | J5 INFRASTRUCTURE PARTNERS | 3 | DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. 4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS | R-605 | SUPPLEMENTAL | 0 | 03/11/22 | MLDV |
| PHONE: 719.775.2861 | 23 MAUCHLY #110 IRVINE, CA 92618 | | REQUIRED. 5. HANDICAP ACCESS IS NOT REQUIRED. | R-606 | SUPPLEMENTAL | 0 | 03/11/22 | MLDV |
| TELEPHONE COMPANY: PHONE: | PROPERTY OWNER: | PLANNING / APPLICANT'S REPRESENTATIVE: | 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 | R-607 | SUPPLEMENTAL | 0 | 03/11/22 | MLDV |
| 000 | 11820 HAHN RD | THE DERNA GROUP | TOWER THAT INVOLVES THE COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A | R-608 | SUPPLEMENTAL | 0 | 03/11/22 | MLDV |
| 811 | CALHAN,CO 80808-9242 | 22431 ANTONIO PARKWAY | SUBSTANTIAL CHANGE UNDER CFR § 1.61000 (B)(7). | R-609 | SUPPLEMENTAL | 0 | 03/11/22 | MLDV |
| | | SUITE B160-234 RANCHO SANTA MARGARITA, | PROJECT LOCATION DIRECTIONS | R-610 | SUPPLEMENTAL | 0 | 03/11/22 | MLDV |
| | | CA 92688 CONTACT: RACHEL BRUIN | | R-611 | SUPPLEMENTAL | 0 | 03/11/22 | MLDV |
| Know what's DelOW. | | PHONE: (805) 215-9444 EMAIL: | I-25 EXIT 149 WOODMEN RD. GO EAST FOR 11.6 MILES TO HWY 24. GO EAST ON HWY 24 FOR 17 MILES TO WEST SIDE OF CALHAN. GO SOUTH ON HAHN | R-612 | SUPPLEMENTAL | 0 | 03/11/22 | MLDV |
| Call before you dig. | RBRUIN@DERNAGRP.COM | | RD. FOR 2.5 MILES TO SITE. | R-613-619 | SUPPLEMENTAL | 0 | 03/11/22 | MLDV |

Please add "PCD File No. PPR-22-021"



GENERAL CONSTRUCTION NOTES:

- OWNER FURNISHED MATERIALS, T-MOBILE "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL
 - BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/CO-LOCATE ONLY)
 - 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)
 - TOWERS, MONOPOLES TOWER LIGHTING
 - GENERATORS & LIQUID PROPANE TANK
 - ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING
 - ANTENNAS (INSTALLED BY OTHERS)
 - TRANSMISSION LINE
 - TRANSMISSION LINE JUMPERS
 - TRANSMISSION LINE CONNECTORS WITH WEATHER PROOFING KITS TRANSMISSION LINE GROUND KITS
 - 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 T-MOBILE TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED PERMITS
- ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSI/EIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS.
- CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED 5. 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.
- DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS. 7
- 8 DETAILS SHOWN ARE TYPICAL: SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION 9. SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR
- CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED 10. FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
- CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS 11. DRAINS, DRAIN PIPES, VENTS, ETC, BEFORE COMMENCING WORK.
- INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE T-MOBILE 12. REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION, ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE T-MOBILE REP PRIOR TO PROCEEDING.
- EACH CONTRACTOR SHALL COOPERATE WITH THE T-MOBILE REP, AND COORDINATE HIS 13. 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 T-MOBILE CONSTRUCTION MANAGER
- ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING 15. INSTALLATION USING A SILICONE SEALANT
- WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET. 16. CONTRACTOR SHALL NOTIFY THE T-MOBILE 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.
- CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER 19. CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
- CONTRACTOR SHALL FURNISH T-MOBILE AND AMERICAN TOWER CORPORATION (ATC) 20. ITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WOR
- PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH T-MOBILE REP TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED 2 21. SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL ALL ITEMS PROVIDED

- 22. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH T-MOBILE REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY T-MOBILE MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR
- 23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH T-MOBILE SPECIFICATIONS AND REQUIREMENTS.
- 24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO T-MOBILE FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO T-MOBILE SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
- 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 T-MOBILE REP A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND
- CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL 28. NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC
- 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.
- 30. ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE T-MOBILE REP. ANY WORK FOUND BY THE T-MOBILE REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED
- 31. 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.
- T-MOBILE FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE T-MOBILE WAREHOUSE. 32. 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
- T-MOBILE OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY 33. 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 T-MOBILE OR THEIR ARCHITECT/ENGINEER

SPECIAL CONSTRUCTION ANTENNA INSTALLATION NOTES:

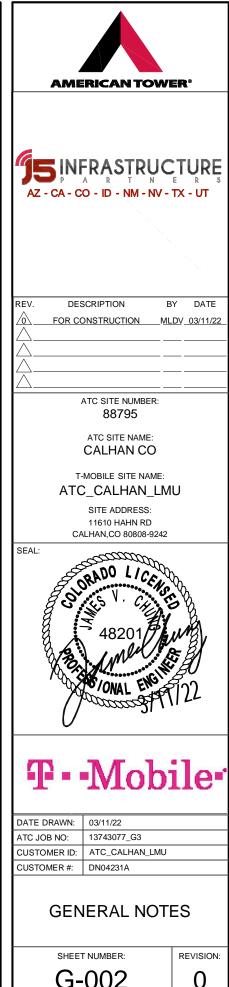
WORK INCLUDED

1.

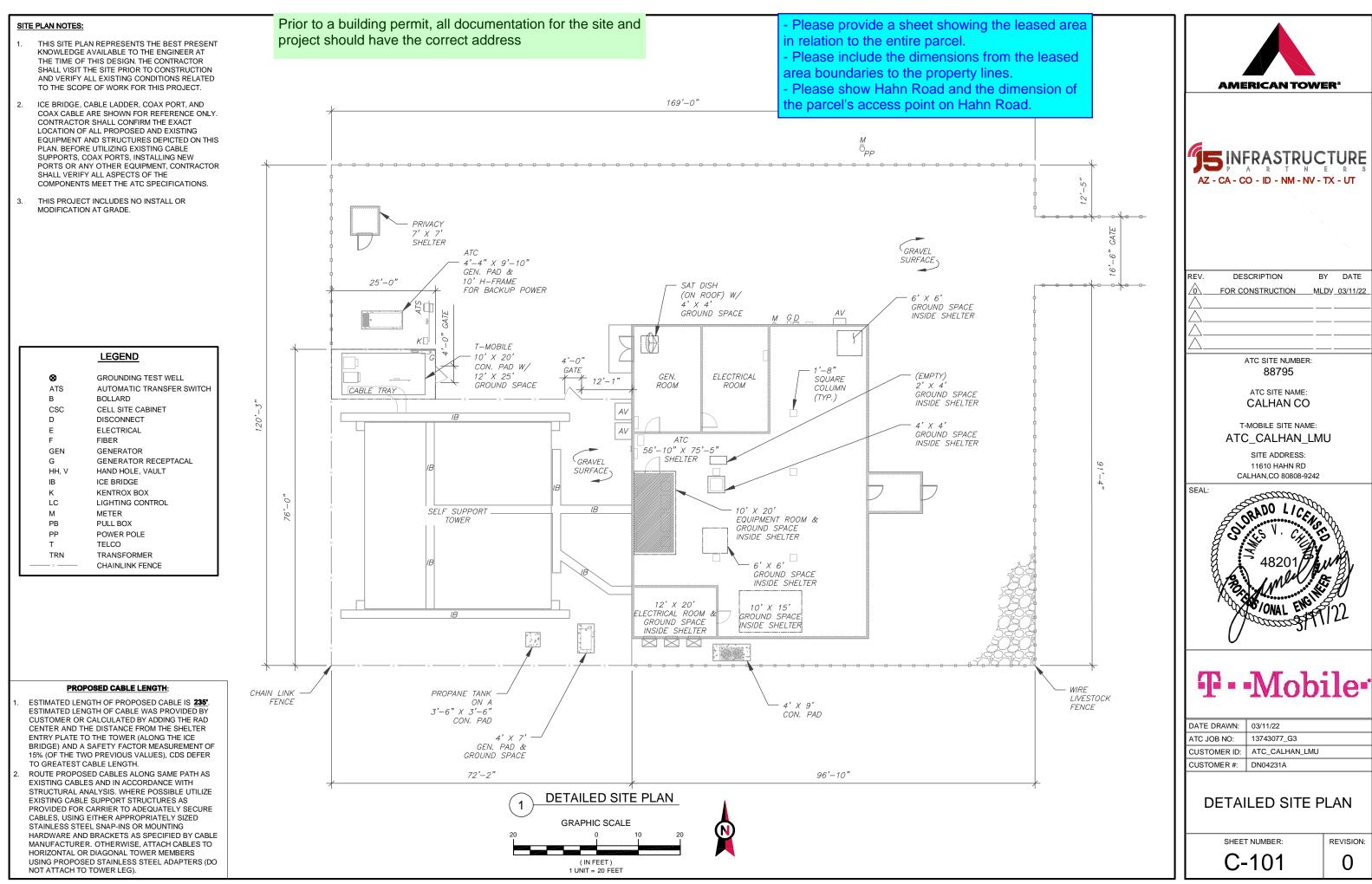
29.

- ANTENNA AND COAXIAL CABLES ARE FURNISHED BY T-MOBILE UNDER A SEPARATE CONTRACT, THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL
- B. INSTALL ANTENNAS AS INDICATED ON DRAWINGS AND T-MOBILE SPECIFICATIONS
- C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS.
- D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE.
- E. CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SWEEP TESTS USING ANRITZU-PACKARD 8713B RF SCALAR NETWORK ANALYZER. SUBMIT FREQUENCY DOMAIN REFLECTOMETER(FDR) TESTS RESULTS TO THE PROJECT MANAGER. SWEEP TESTS SHALL BE AS PER ATTACHED RFS "MINIMUM FIELD TESTING RECOMMENDED FOR ANTENNA AND HELIAX COAXIAL CABLE SYSTEMS" DATED 10/5/93. TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING SERVICE AND BE BOUND AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.
- INSTALL COAXIAL CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.
- G. ANTENNA AND COAXIAL CABLE GROUNDING
- ALL EXTERIOR #6 GREEN GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR EQUAL
- 3. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF

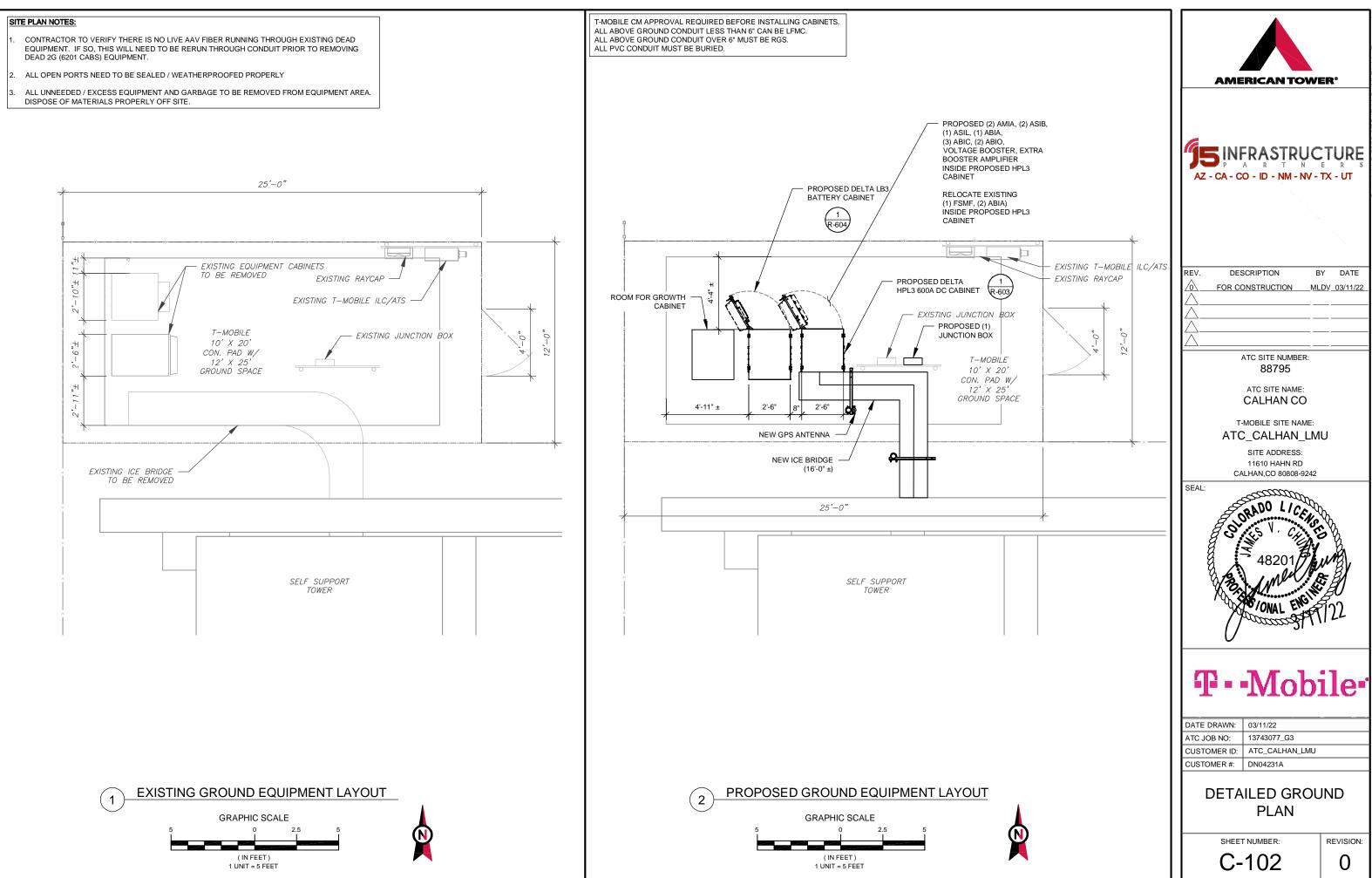
COAXIAL CABLE (NOT WITHIN BENDS)

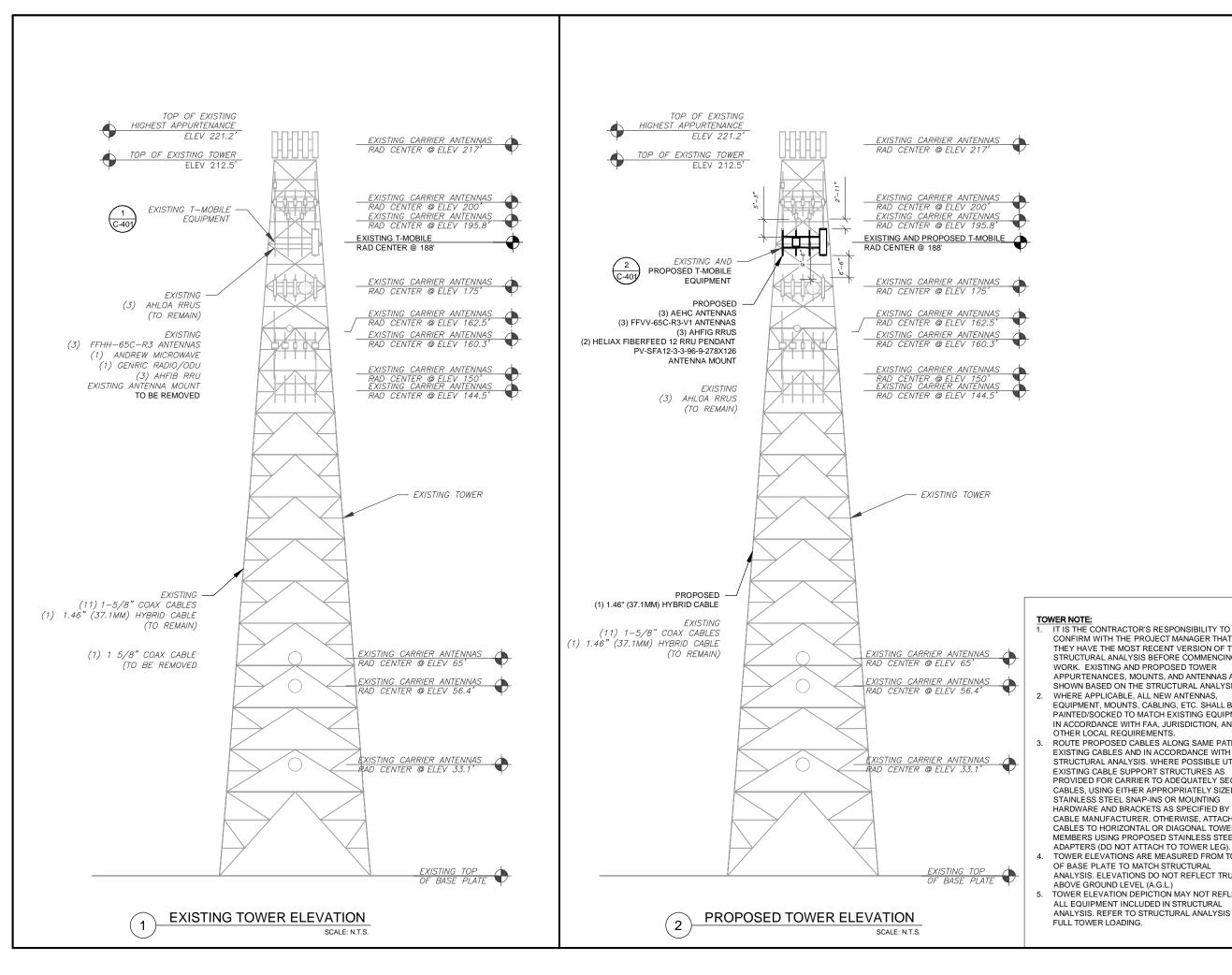


ALL DISCREPANCIES FROM WHAT IS SHOWN ON THESE CONSTRUCTION DRAWINGS SHALL BE COMMUNICATED TO ATC ENGINEERING IMMEDIATELY FOR CORRECTION OR RE-DESIGN FAILURE TO COMMUNICATE DIRECTLY WITH ATC ENGINEERING OR ANY CHANGES FROM THE DESIGN CONDUCTED WITHOUT PRIOR APPROVAL FROM ATC ENGINEERING SHALL BE THE SOLE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





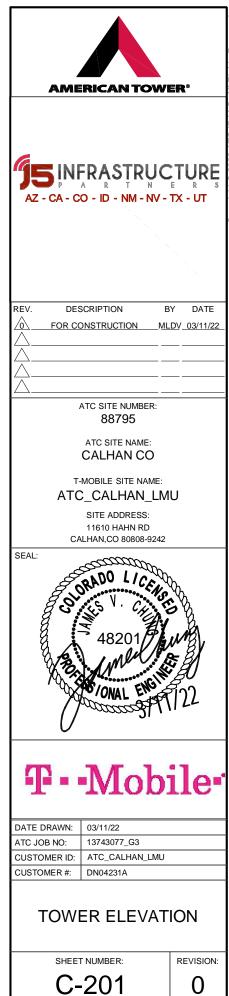


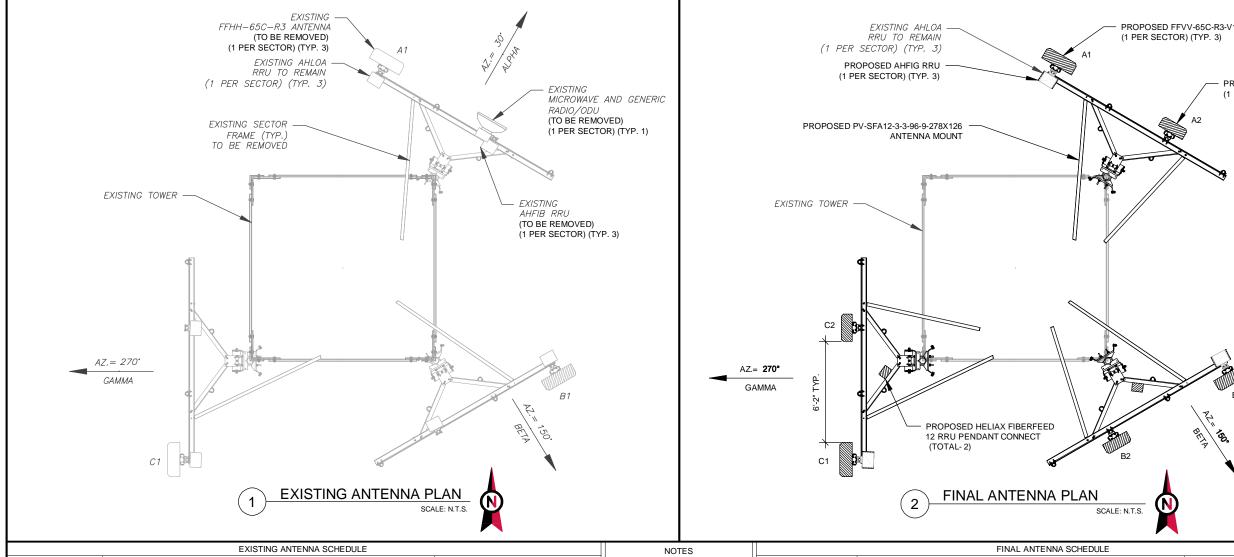


CONFIRM WITH THE PROJECT MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS. WHERE APPLICABLE, ALL NEW ANTENNAS, EQUIPMENT, MOUNTS, CABLING, ETC. SHALL 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 ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)

TOWER ELEVATION DEPICTION MAY NOT REFLECT ALL EQUIPMENT INCLUDED IN STRUCTURAL ANALYSIS. REFER TO STRUCTURAL ANALYSIS FOR





| | | | | E | EXISTING ANTENNA SCI | HEDULE | | | | NOTES | FINAL ANTENNA SCHEDULE | | | | | | | | | |
|--------|--------|------|-----|--------------------|---------------------------------|---------------------|--------|---------------------------------------|-------------|---|------------------------|--------|------|-----------------|-----------------------|---------------------------------------|---------------------|--------|--|--|
| LO | CATION | 1 | | ANT | ENNA SUMMARY | NON ANTENNA SUMMARY | | | | 1. CONFIRM WITH T-MOBILE REP | LO | CATION | | ANTENNA SUMMARY | | | | | | |
| SECTOR | RAD | AZ | POS | ANTENNA | BAND | MECH/ELEC D-TILT | STATUS | ADDITIONAL TOWER MOUNTED EQUIPMENT | STATUS | FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN | SECTOR | RAD | AZ | POS | ANTENNA | BAND | MECH/ELEC D-TILT | STATUS | | |
| ALPHA | 188' | 30' | A1 | FFHH-65C-R3 (OCTO) | L700,L600,N600, L1900, G1900 | 0/6,0/4 | RMV | AHLOA, AHFIB | RMN, RMV | CONFIGURATION (CONFIG). GC TO CAP ALL UNUSED PORTS. | ALPHA | 188' | 30° | A1 | FFVV-65C-R3-V1 (OCTO) | L700,L600,N600,L2100, L1900,G1900, | 0/2 | ADD | | |
| BETA | 188' | 150' | B1 | FFHH-65C-R3 (OCTO) | L700,L600,N600, L1900, G1900 | 0/2,0/4 | RMV | AHLOA, AHFIB | RMN, RMV | 2. CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS | ALPHA | 100 | 30 | A2 | AEHC | N1900,N2100 L2500,N2500 | 0/2 | ADD | | |
| GAMMA | 188' | 270' | C1 | FFHH-65C-R3 (OCTO) | L700,L600,N600, L1900, G1900 | 0/6,0/4 | RMV | AHLOA, AHFIB | RMN, RMV | NOR IMPEDE TOWER CLIMBING PEGS. | ВЕТА | 188' | 150° | B1 | FFVV-65C-R3-V1 (OCTO) | L700,L600,N600,L2100, L1900,G1900, | 0/2 | ADD | | |
| | | | | | | | | | | | BEIA | 100 | 150 | | 4540 | N1900,N2100 | 0/0 | | | |

3

| | DETA | 100 | 150 | | | N1900,N2100 | | |
|----------------------|-------|------|------|----|-----------------------|--|-----|-----|
| STATUS ABBREVIATIONS | | | | B2 | AEHC | L2500,N2500 | 0/2 | ADD |
| RMV: TO BE REMOVED | GAMMA | 188' | 270° | C1 | FFVV-65C-R3-V1 (OCTO) | L700,L600,N600,L2100, L1900,G1900, N1900,N2100 | 0/2 | ADD |
| REL: TO BE RELOCATED | | | | C2 | AEHC | L2500,N2500 | 0/2 | ADD |
| ADD: TO BE ADDED | | | | | | | | |

CABLE LENGTHS FOR JUMPERS

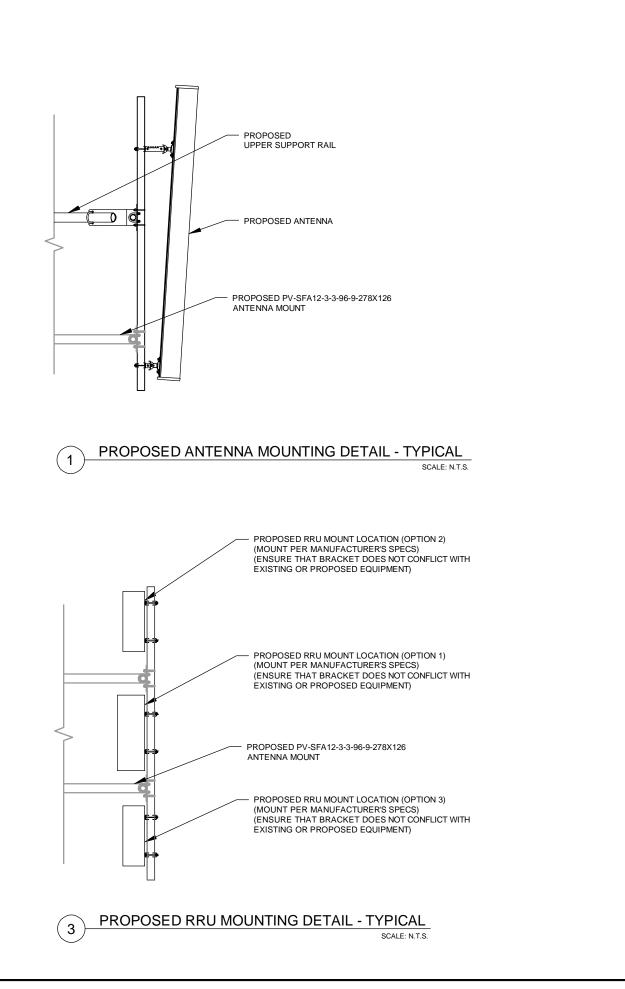
JUNCTION BOX TO RRU: 15' RRU TO ANTENNA: 10'

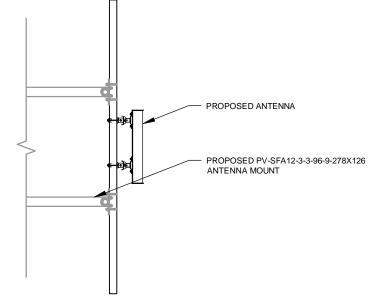
| EXISTING FIBER DISTRIBUTION/O | /P BOX | EXISTING CABLING SUMMARY | | | | | | | |
|-------------------------------|--------|--------------------------|--------|--------|--|--|--|--|--|
| MODEL NUMBER | STATUS | COAX | HYBRID | STATUS | | | | | |
| _ | - | (1) 1–5/8" | _ | RMV | | | | | |

FINAL FIBER DISTRIBUTION / OVP BOX FINAL CABLING STATUS COAX MODEL NUMBER HELIAX FIBERFEED 12 RRU PENDANT ADD (11) 1-5/8" CONNECT (X2)

EQUIPMENT SCHEDULES

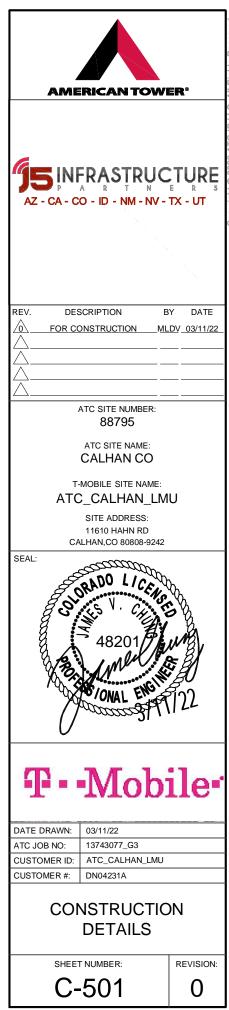
| /-65C-R3-V1 ANTENN (TYP. 3) | | AMERICAN TOWN | ER° |
|--|-------------------------------|---|-----------------------|
| / | AEHC ANTENNA FOR) (TYP. 3) | AZ - CA - CO - ID - NM - NV - | |
| | | | |
| - Samo | | REV. DESCRIPTION B A FOR CONSTRUCTION ML A A A A A A | Y DATE DV_03/11/22 |
| B1 PFT B2 | | ATC SITE NUMBER: 88795 ATC SITE NAME: | |
| | | CALHAN CO T-MOBILE SITE NAME: ATC_CALHAN_LM SITE ADDRESS: 11610 HAHN RD CALHAN,CO 80808-9242 | U |
| | | SEAL: | |
| NON ANTENN | A SUMMARY | 00/10 | 、 |
| ADDITIONAL TOV MOUNTED EQUIP AHLOA, AHFIG | | 48201 | und - |
| AHLOA, AHFIG AHLOA, | RMN, ADD RMN, | 10 IONAL ENGINE | 122 |
| AHFIG | ADD | T-Mob | ile |
| | | | |
| | | DATE DRAWN: 03/11/22 | |
| | | ATC JOB NO: 13743077_G3 CUSTOMER ID: ATC_CALHAN_LMU | |
| | | CUSTOMER #: DN04231A | |
| AL CABLING SUMMA | RY | ANTENNA INFORM & SCHEDULE | |
| HYBRID | STATUS | SHEET NUMBER: | REVISION: |
| 1.46"(37.1MM 1.46"(37.1MM | | C-401 | 0 |
| 1.40 (37.11010 | | | |

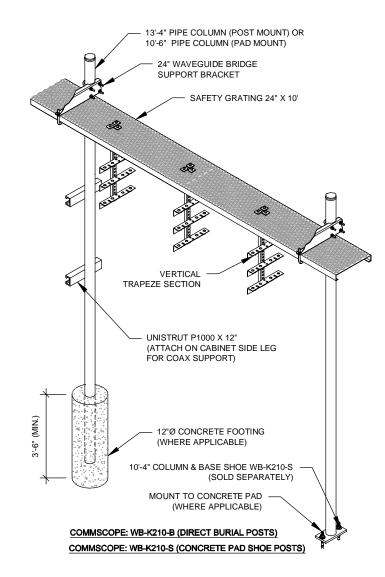


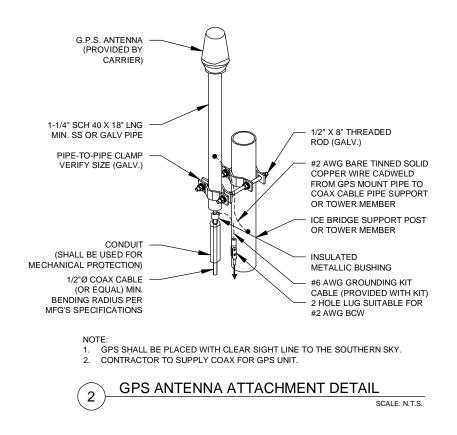


PROPOSED 5G ANTENNA MOUNTING DETAIL - TYPICAL 2

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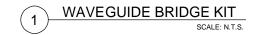


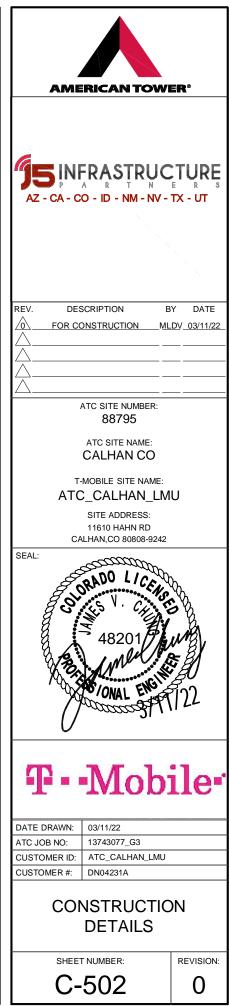


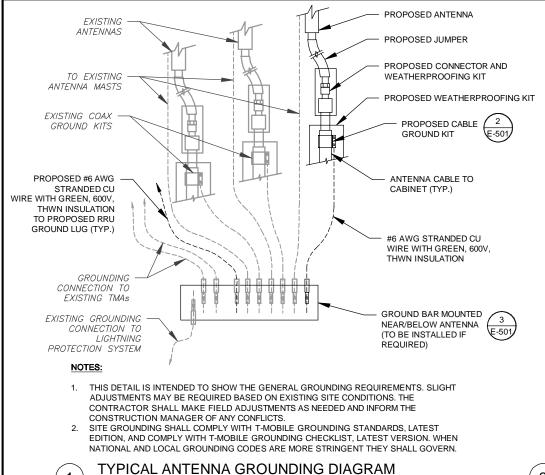


CONSTRUCTION NOTE:

- 1. INSTALL ICE BRIDGE TO ALLOW 7 FEET CLEARANCE ABOVE GRADE TO LOWEST APPURTENANCE.
- 2. INSTALL PER MANUFACTURES SPECIFICATION.







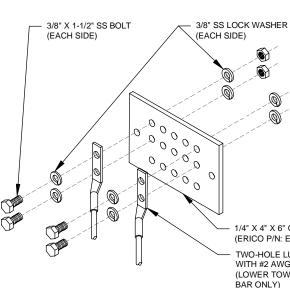
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TO ANTENNA ANTENNA CABLE 2 1/2"Ø MAX GROUNDING KIT PER CABLE MANUFACTURER'S RECOMMENDATIONS (ANDREW OR APPROVED EQUAL) #6 AWG STRANDED COPPER GROUND WIRE (GROUNDED TO GROUND BAR) TO EQUIPMENT

GROUND KIT NOTES:

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





GROUND BAR NOTES:

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



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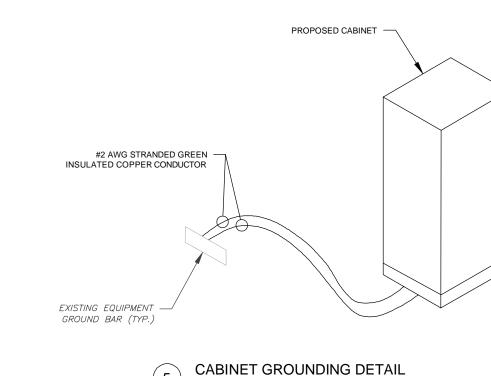
ELECTRICAL NOTES:

4

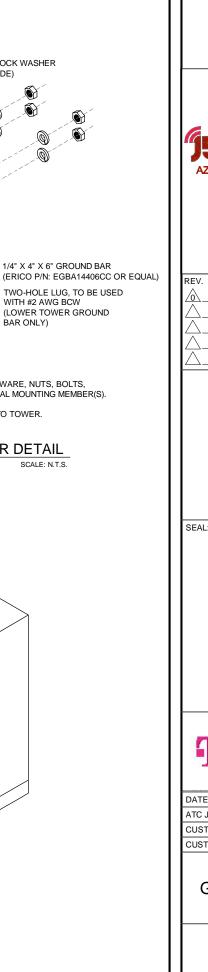
- 1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE T-MOBILE REPRESENTATIVE AND LOCAL UTILITY COMPANY FOR THE INSTALLATION OF CONDUITS, CONDUCTORS, BREAKERS, DISCONNECTS, OR ANY OTHER EQUIPMENT REQUIRED FOR ELECTRICAL SERVICE. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF THE STATE AND NATIONAL CODES, ORDINANCES AND REGULATIONS APPLICABLE TO THIS PROJECT.
- 2. ATC HAS NOT VERIFIED ANY EXISTING T-MOBILE GROUND EQUIPMENT OR ELECTRICAL LOADING. PROPOSED WORK BASED ON INSTALLATION CONFIGURATION PROVIDED BY T-MOBILE. CONTRACTOR TO VERIFY EXISTING T-MOBILE PANEL HAS SUFFICIENT SPACE FOR PROPOSED BREAKER. PROPOSED CABLE AND CONDUIT SHALL BE MINIMUM SIZE PER BELOW IN CHART.
- FOR SPECIFIC CABINET / ANCILLARY EQUIPMENT WIRING REQUIREMENTS, THE T-MOBILE CONTRACTOR SHOULD REFERENCE DESIGN DOCUMENTS PROVIDED BY T-MOBILE FOR THIS CURRENT PROJECT CONFIGURATION, IN ACCORDANCE WITH LOCAL JURISDICTION REQUIREMENTS & NEC STANDARDS & PRACTICES.

| OCPD SIZE | WIRE SIZE | GROUND SIZE | CONDUIT SIZE |
|-----------|-----------|-------------|--------------|
| 80A/2P | 2#3 AWG | #8 AWG | 1-1/4" |
| 100/2P | 2#2 AWG | #8 AWG | 1-1/4" |
| 125A/2P | 2#1 AWG | #8 AWG | 1-1/2" |
| 150A/2P | 2#1/0 AWG | #8 AWG | 1-1/2" |





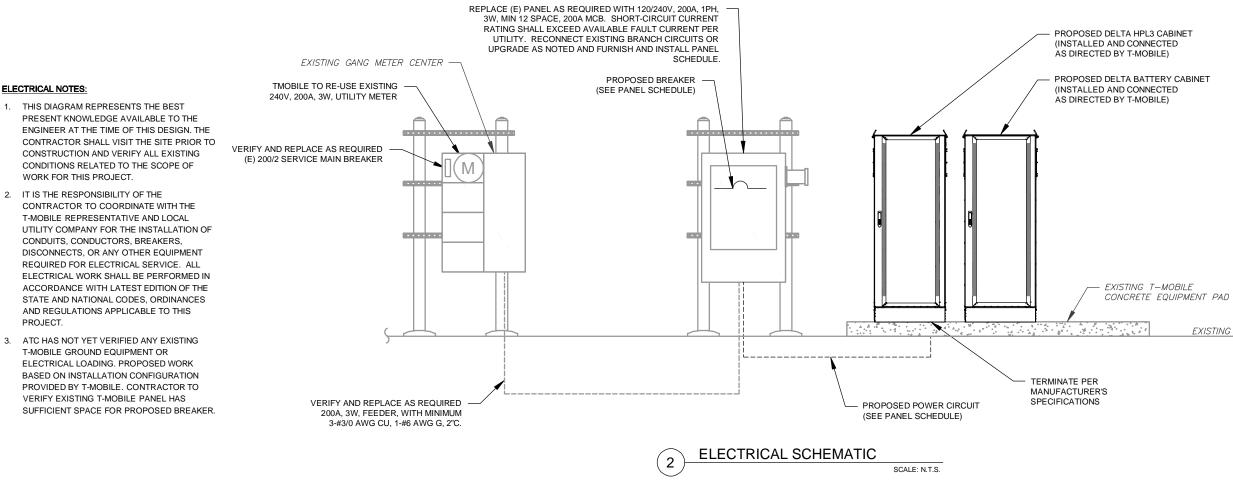
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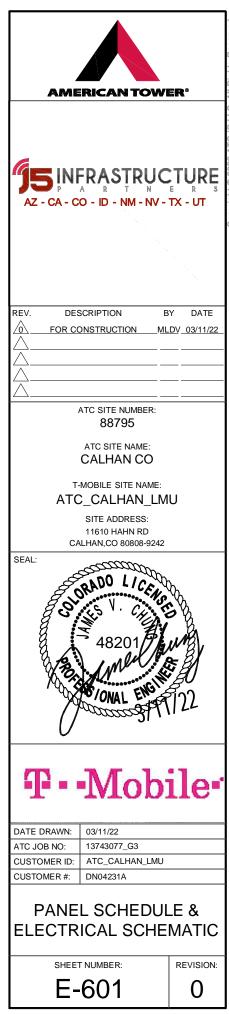
| | ATION | тмо | TYPE: MOUNTING: | | LIGHTIN | G& APP | | | | SYSTE | M: IREAKER | ALES- | 120/2 | | 2, 3W, 24 | 4 OKT | | LOCATION | THO LEASE EQUIP | MENT AF | KEA. |
|---------|---------|-------------------|--------------------|-------|-----------|---------|-------|------|-------|--------|---------------|-------|-------|--------|-----------|-------|------|--------------|---------------------|---------|--------|
| DEDICIN | PUTRADE | 1410 | ENCLOSURE: | _ | | EMA 3F | | | | MANB | US RATI | NG | | 20 | 0A | | | PANEL NOTES: | PROPOSI | Ð | |
| | | | | | | | | ł | - | MN. A. | LC. RATI | NG | | N | IA. | į | | | | | |
| CONN | ECTED | | | FE | EDER OF | BRANC | HOROU | ЛТ | | | | F | EDERO | RBRAN | ICH ORD | UIT |] | | | CONN | ECTE |
| LOAD | (RVA) | BRIEF DESCRIPTION | BF | EAKER | | CIRCUIT | | POLE | CIRC. | | CIRC. | POLE | | ORCUIT | | BRE | KER | BRE | F DESCRIPTION | LOAD | (kVA) |
| A | В | | AMR | POLES | WIRE | GND | COND. | NO. | HOTES | | HOTES | NO. | COND. | GND | WRE | POLES | AMPS | | | A | В |
| 0.01 | | SURGE | 60 | 2 | 3-#6 | #10 | 1" | 1 | | | | 2 | 1/2 | #12 | 2#12 | 1 | 20 | | GR | 0.18 | |
| | 0.01 | | | | Charles . | 1000 | 100 | 3 | | | | 4 | 1/2* | #12 | 2#12 | 1 | 20 | | LIGHT | | 0.50 |
| 12.75 | 40.75 | DELTA HPL3 | 200 | 2 | 3-#3/0 | #6 | 2 | 5 | | | | 6 | 1/2* | #12 | 2-#12 | 1 | 20 | | AAV GFI | 0.15 | 0.04 |
| 0.18 | 12.75 | HPL3 GFI | 20 | 1 | 2-#12 | #12 | 2 | 9 | | | | 8 | | | | | | | | 0.00 | 0.00 |
| u. 10 | 5.25 | | | - | 1 | 10.000 | - | 11 | | | - | 12 | | | - | | | | | 0.00 | 0.00 |
| 5.25 | Jaco - | HPL3 EXPANSION | 100 | 2 | 3-#1 | #8 | 2 | 13 | | | | 14 | | _ | | | - | | | 0.00 | 0.00 |
| | 0.00 | | | | | | | 15 | | | | 16 | | | | | | | | | 0.00 |
| 0.00 | | | | 1 | 1 | | | 17 | | | | 18 | | | | | | | | 0.00 | |
| | 0.00 | | | 1 | | | | 19 | | | | 20 | | | | | | | | | 0.00 |
| 0.00 | | | | | | | | 21 | | | | 22 | | | | | | | | 0.00 | |
| | 0.00 | | | Į. | | | | 23 | | | | 24 | | | | | | | | | 0.00 |
| 18.2 | 18.0 | | | | | | | | A | В | TOT | | | | | | | | | 0.3 | 0.5 |
| | | | | | | | | | 18.5 | 18.5 | 37 | | CONNE | | | A) | | | | | |
| | | | | | | | | , | 18.5 | 18.5 | 37 | U | DEMAN | DLOAD | (RVA) | | | | RATING FACTOR (80%) | | 41.000 |
| | | | | | | | | | | | | | | | | | | | DEMANDLOAD SIZING: | 19.3 | AL |

PANEL SCHEDULE 1



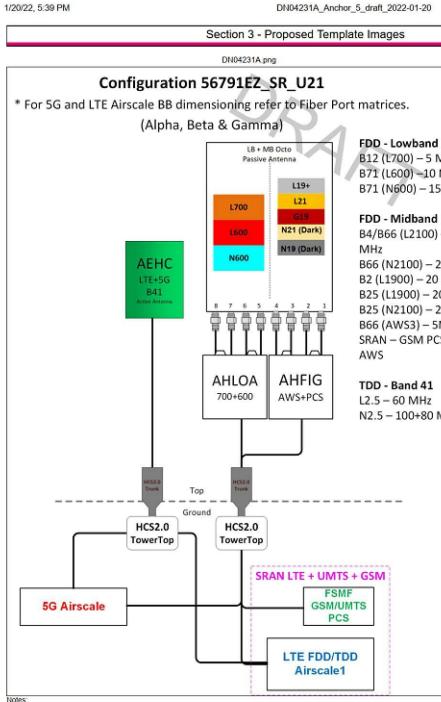
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EXISTING GRADE



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| | | Proposed RAN Equip | | |
| Enclosure | | Template: 56791EZ_SR | | |
| | 1 | 2 | 3 | 4 |
| Enclosure Type | (Generic 600A Site Support Cabinet) | (Tower Top Mount (Nokia)) | (Ancillary Equipment (Nokia)) | Generic Battery Cabinet for 600A SSC |
| Baseband | ASIB L500 L500 L500 L500 L500 N500 | | | |
| Baseband Submodule | ABIA (x 2) L2100 L1900 ABIO N600 N1900 (DARK) N2100 (DARK) | | | |
| Baseband Subrack | (AMIA (X 2)) | | | |
| Hybrid Cable System | Voltage Booster needed if hybrid under 250' Extra Booster Ampitier needed if hybrid under 250' | | Nokia HCS 2.0 Trunk "Select Length" (x 2) | |
| Junction Box | | | Nokia HCS 2.0 Tower Junction Box | |
| Power subsystem | (Rectifier Shelf "Select size") (Breakers "Select size") | | | (Batteries "Select size") |
| Radio | | AHLOA (x 3) L700 L600 N600 N1900 (DARK) N2100 (DARK) | | |
| Transport System | (CSR IXRe V2 (Gen2)) | ()/ | | |

CABINET CONFIGURATION 1 SCALE: NOT TO SCALE



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CORPORATION

This report was prepared for American Tower Corporation by



Structural Analysis Report

| Structure | : | 213 ft Self Support Tower |
|---------------------|---|-------------------------------|
| ATC Site Name | : | CALHAN CO,CO |
| ATC Site Number | : | 88795 |
| Engineering Number | : | 13743077_C3_03 |
| Proposed Carrier | : | T-MOBILE |
| Carrier Site Name | : | ATC_Calhan_LMU |
| Carrier Site Number | : | DN04231A |
| Site Location | : | 11820 Hahn rd |
| | | CALHAN, CO 80808-9242 |
| | | 38.9991, -104.3136 |
| County | : | El Paso |
| Date | : | February 11, 2022 |
| Max Usage | : | 87% |
| Result | : | Pass |
| Prepared By: | | Reviewed By: Digitally signed |



The purpose of this report is to summarize results of a structural analysis performed on the 213 ft Self Support tower to reflect the change in loading by T-MOBILE.

Supporting Documents

| Tower Drawings | RC&R Job #85128, dated January 23, 1986 CSEI Analysis for ATC Engineering #73115498, dated January |
|---------------------|---|
| Foundation Drawing | TEP Mapping #111954, dated June 7, 2011 |
| Geotechnical Report | GeoTel Engineering Report #E11-200, dated June 6, 2011 |
| Modifications | ATC Job #50478433, dated September 21, 2012 |

Analysis

The tower was analyzed using American Tower Corporation's tower analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/TIA-222.

| Basic Wind Speed: | 89 mph (3-second gust, Vasd)/130 mph (3-second gu |
|--------------------------|---|
| Basic Wind Speed w/ Ice: | No Ice Considered |
| Code: | ANSI/TIA-222-G / 2015 IBC |
| Structure Class: | 11 |
| Exposure Category: | C |
| Topographic Category: | 1 |
| Spectral Response: | Ss =0.15, S, = 0.05 |
| Site Class: | D - Stiff Soil - Default |

Conclusion

Based on the analysis results, the structure meets the requirements per the applicable codes listed above. The tower and foundation can support the equipment as described in this report.

If you have any questions or require additional information, please contact POD Group via email at bsmith@podgrp.com. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.

POD GROUP - 1033 E. Turkeyfoot Lake Road, Suite 206 - Akron, OH 44312 - 330-961-7432 - www.podgrp.com



by Jason

Cheronis

11:28:08 -05'00'

heronis Date: 2022.02.11

Jason

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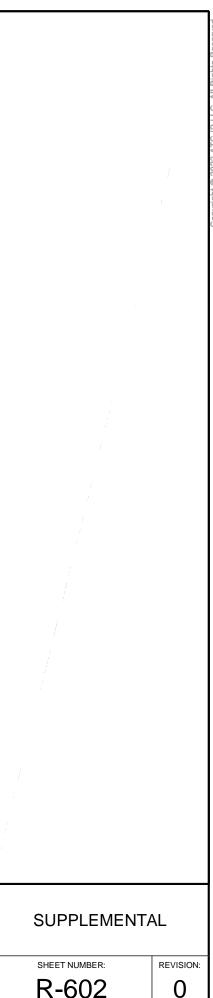
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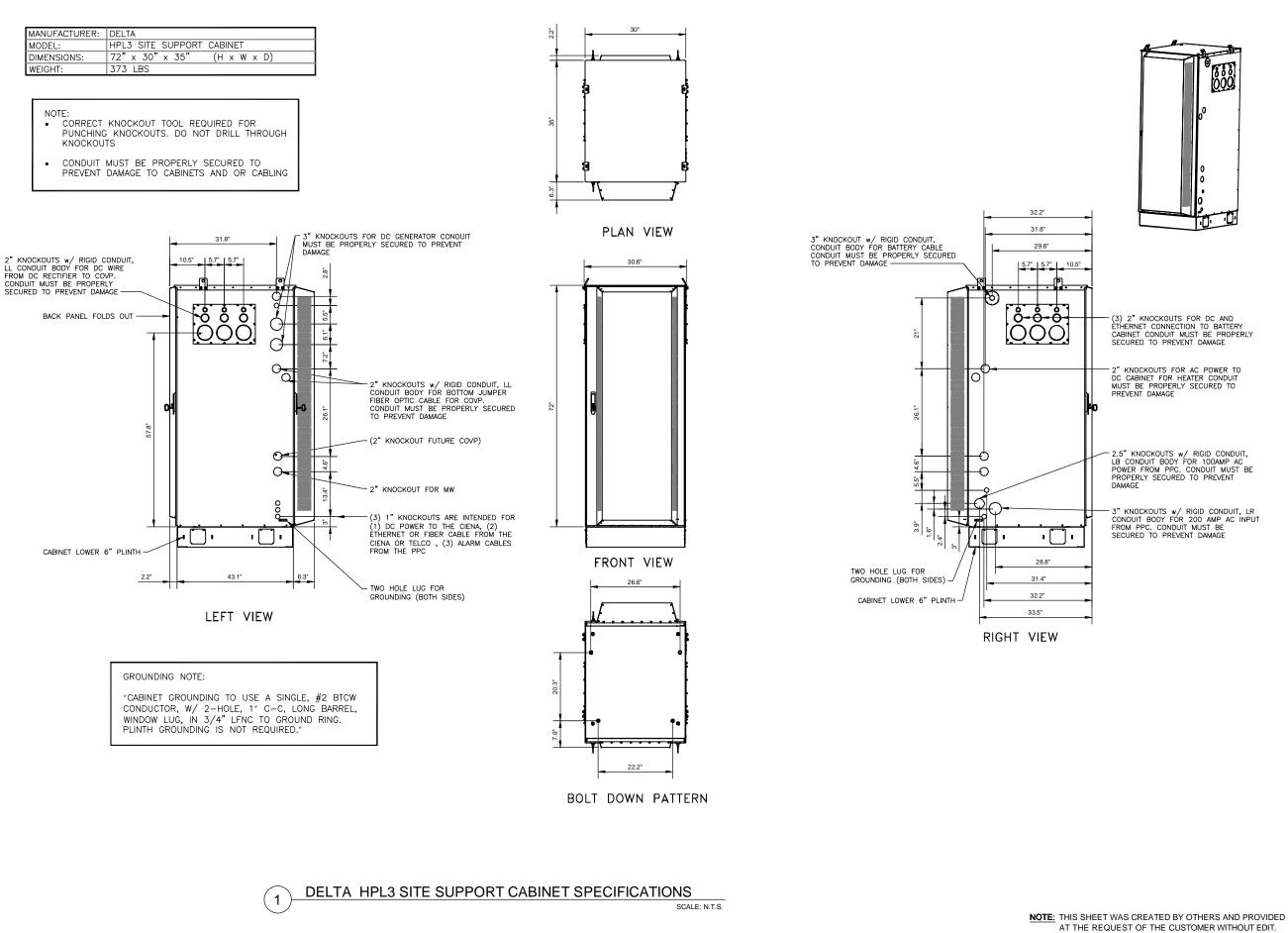
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Eng. Number 13743077_C3_03 February 11, 2022 Page. 3

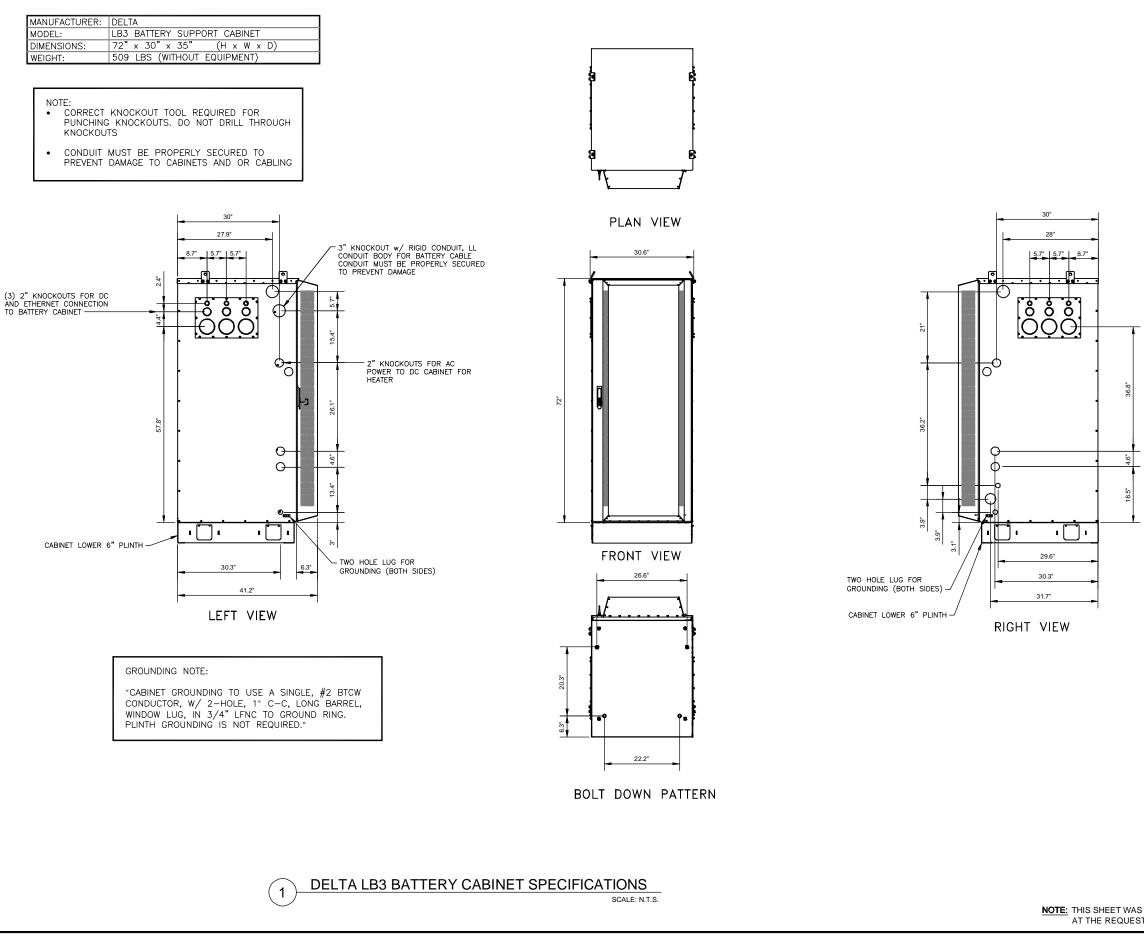
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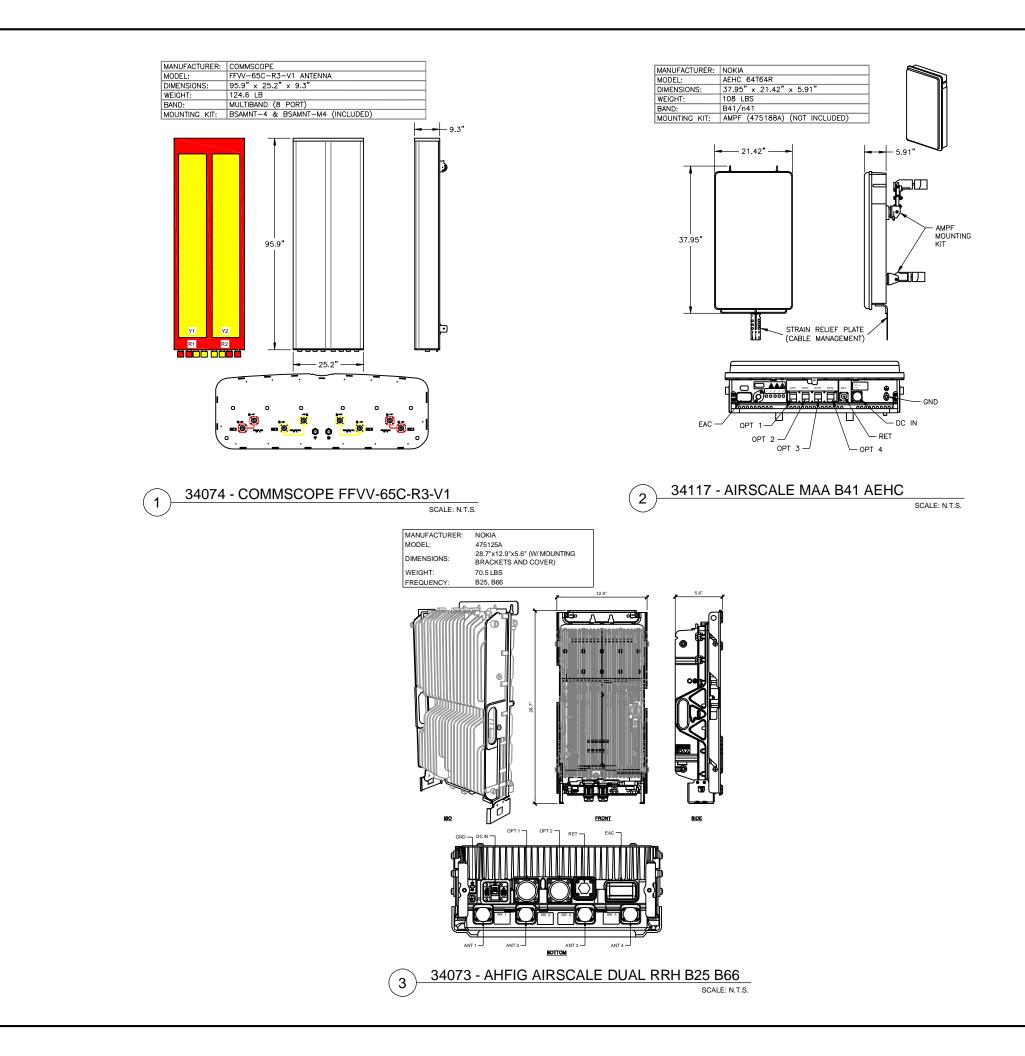


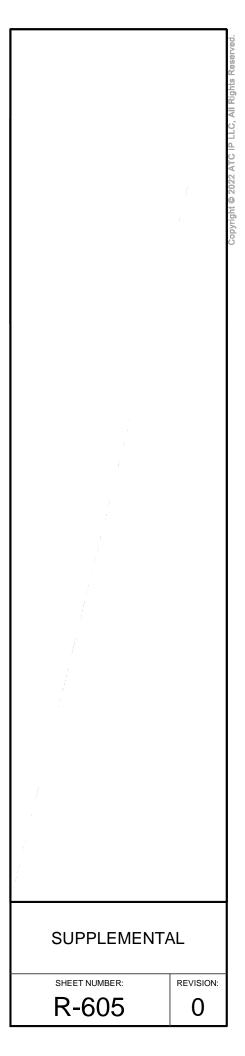
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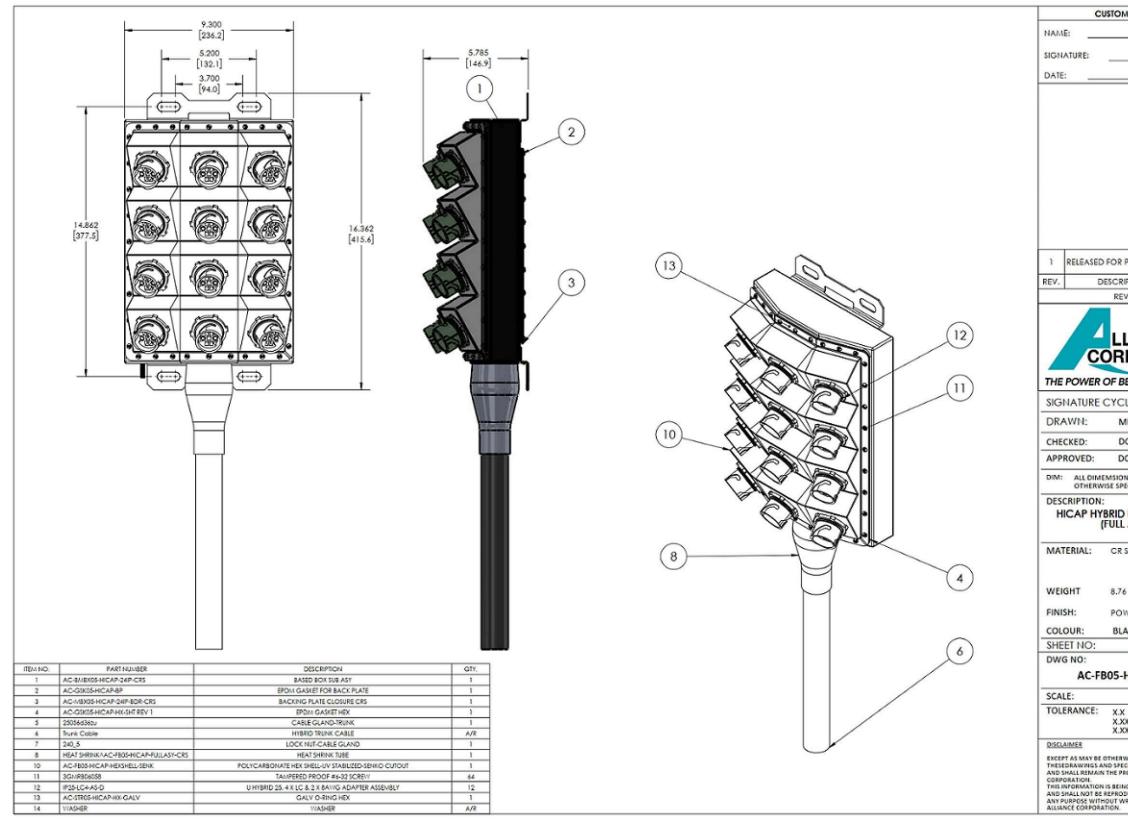
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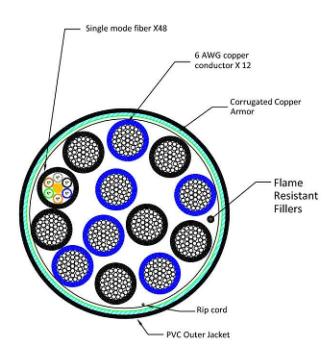






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| MECHANICAL | JACKET COLOR | BLACK |
|------------|--|------------------------|
| | OUTER DIAMETER (IN) | 1.46 |
| | MIN BENDING RADIUS(IN), MULTIPLE BENDS, LOADED | 29.2 |
| | MIN BENDING RADIUS(IN), MULTIPLE BENDS, UNLOADED | 14.6 |
| | MIN BENDING RADIUS(IN), SINGLE BEND, UNLOADED | 10.22 |
| | MIN BENDING RADIUS(IN), FURCATION | 1.2 |
| | ARMOR | CORRUGATED COPPER |
| | WEIGHT(lb/kft) | 1610 |
| | COMPRESSION(Ib/IN) | 250 |
| | TENSILE LOAD, LONG TERM(Ibf) | 180 |
| | TENSILE LOAD, SHORT TERM(Ibf) | 600 |
| ELECTRICAL | CONDUCTOR MATERIAL | COPPER |
| | CONDUCTOR CONSTRUCTION | STRAND |
| | CONDUCTOR COLOR | BLUE/BLACK |
| | RESISTIVITY(nΩ @20°C) | 16.78 nohm-M |
| | CONDUCTORS, QTY | 12 |
| | CONDUCTOR SIZE(AWG) | 6 |
| | EMI SHIELD | YES |
| | UL RATING | UL TC-OF-ER |
| OPTICAL | FIBER TYPE | SINGLE MODE (G.657.A2) |
| | FIBERS, QTY | 48 |
| | ATTENUATION(dB/km), MAX, 1550/1285-1330 nm | 0.5 |
| | DISPERSION, MAX, 1550/1285-1330 nm | 18 ps/3.5 ps |
| | RETURN LOSS(dB) | >50 |
| | INSERTION LOSS(dB), POST ENVIRONMENTAL | REDUCTION < 0.65 |
| | RETURN LOSS(dB), POST ENVIRONMENTAL | REDUCTION < 5 |
| | CUTOFF WAVELENGTH(nm) | 1260 |
| | PIGTAIL TERMINATION | LC PAIR, STRAIGHT |
| ENVIRON | OPERATING TEMP(°F) | -40 TO +167 |
| | STORAGE TEMP(°F) | -40 TO +167 |
| | UV | IEC 60068-2-5 |
| | THERMAL CYCLE | IEC 60068-2-14 |
| | VIBRATION | IEC 60068-2-64 |
| | IMPACT(ft lb) | 4.4 NM PER ICEA696 |
| | | |



NOTE: CABLE CROSS-SECTION NOT DRAWN TO SCALE

| | LC, All Rights Reserved. |
|---|--|
| | Copyright © 2022 ATC IP LLC, All Rights Reserved |
| PROLYWORE NO. PROJECT NAME: FROJECT LOCATION NEV DESCHIPTION 1 INIT. DWG | |
| | |
| CORPORATION THE POWER OF BEING CONNECTED. CUSTOMER: T-MOBILE SIGNATURE CYCLE DATE DRAWNE: HI SHIN 201370602 CHICOGD: D.O'DRIEN 201370602 | |
| ARMORED TRUNK HYBRID CABLE HIGH-CAPACITY w/ #6 AWG CONDUCTORS | |
| SHEET NO: 2 OF 3 DWG NO: AC-HTCOS-24DLC-12C HORIZONTAL SCALE: N.T.S. DISCLAIMER EXCEPTION AND AND ADDITION OF THE ADDITION OF | |
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DATA SHEET

DC Surge Protection for RRH/RFM (High-Capacity Junction Box) ASU9338TYP01 (RNSNDC-7771-PF-48) **Overvoltage Protection & Fiber Management Junction Box**

The deployment of Remote Radio Head (RRH) and Remote Flexi Modules (RFM) architecture poses unique challenges to the mobile telecom industry. Raycap's innovative RRH protection solutions mitigate the risk of damage due to lightning and provide high levels of availability and reliability to radio equipment.



Features

- · Employs the Strikesorb® 30-V1-HV Surge Protective Device (SPD) specifically designed for the Remote Radio Head (RRH) and Remote Flexi Modules (RFM) installation environment and certified for use in DC applications and at low DC operating voltages (48V).
- The Strikesorb 30-V1-HV is a Class I SPD, certified by VDE per the IEC 61643-1 standard as suitable for installation in areas where direct lightning exposure is expected. Strikesorb 30-V1-HV is able to withstand direct lightning currents of up to 5kA (10/350) and induced surge currents of up to 60kA (8/20).
- Provides very low let through / clamping voltage unique for a Class I product as it does not employ spark gaps or other switching elements. Strikesorb offers unique protection levels to the RRH equipment as well as the Base Band Units.
- · Stock unit ships with all glands necessary for use with hybrid cable. This includes the top and base of towers, and the central unit on roof top applications.
- · Fully recognized to the UL 1449 3rd Edition Safety Standard.
- Patent pending design

Benefits

- Offers unique maintenance-free protection against direct lightning currents.
- Protects up to 9 RRHs/RFMs and connects up to 18 fiber pairs.
- · Utilizes an IP 67 rated enclosure, allowing for indoor or outdoor installation on a roof or tower top.
- · Configurable cable ports are designed to accommodate NSN high-capacity/ low-capacity hybrid trunk cables (combined power and fiber optic), Coax Reuse, and NSN hybrid jumper cables.
- Lightweight aerodynamic design provides maximum flexibility for tower top installation.





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SPECIFICATIONS

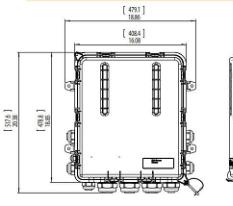
DC Surge Protection for RRH/RFM (High-Ca ASU9338TYP01 (RNSNDC-77 Overvoltage Protection & Fiber Management Junction B

| Model Numbers | ASU9338TYP01 (RNSNDC-7771-PF-48) |
|--|--|
| | |
| Nominal Operating Voltage | 48 VDC |
| Nominal Discharge Current [I _n] | 20kA 8/20 μs |
| Maximum Surge Current [Imms] | 60kA 8/20 µs |
| Maximum Impulse (Lightning) Current per IEC 61643-1 | 5 kA 10/350 µs |
| Maximum Continuous Operationg Voltage [U,] | 75 VDC |
| Voltage Protection Rating (VPR) per UL 1449 3rd Edition | 400V |
| Protection Class as per IEC 61643-1 | Class I |
| Input Powen/Fiber | Hybrid, Coax Repurpose (Stinger or Discrete) |
| Output Powen/Fiber | Hybrid Jumper Cables |
| Strikesorb Module Type | 30-V1-HV |
| Mechanical | |
| Suppression Connection Method | Compression lug, #14 - #2 AWG (2.1 mm ² - 33.6 mm ²) Copper; #12 - #2 AWG |
| Fiber Connection Method | LC-LC Single mode |
| Environmental Rating | IP 67 |
| Operating Temperature | -40° C to +80° C |
| UV Resistant | Yes |
| Weight | System: 14.85 lbs (5.82 kg) Mount: 4.15 lbs (1.88 kg) Total: 19 lbs (7.71 k |
| Combined Wind Loading | 150mph (sustained): 135.55 lbs (603 N) 195mph (gust): 176.02 lbs (783 N) |
| | |
| Strikesorb modules are compliant to the following Surge Pr | otective Device (SPD) Standards |
| Standards | ANSI/UL 1449 3rd Edition |
| | IEEE C62.41 |
| | NEMA LS-1, IEC 61643-1:2005 2nd Edition (Class I Protection) |
| | IEC 61643-12 |

[mm] inches

EN 61643-11:2002 (including A11:2007)





To order gland kits for coax reuse : NSN Order Number Raycap Order Number ASU9334TYP01 (7771-TWR-CX-STG-KIT For use with NSN Standard 60 kA COVP-for Order ONE kit per NSN Standard COVP pai ASU9335TYP01 (7771-TWR-CX-DSC-KIT For use with NSN Standard 60 kA COVP-for Order ONE kit per NSN Standard COVP pai ASU9336TYP01 (7771-RFTP-CX-STG-KIT For use with NSN Standard 60 kA COVP-Order ONE kit per NSN Standard COVP and





Nokia Siemens Networks

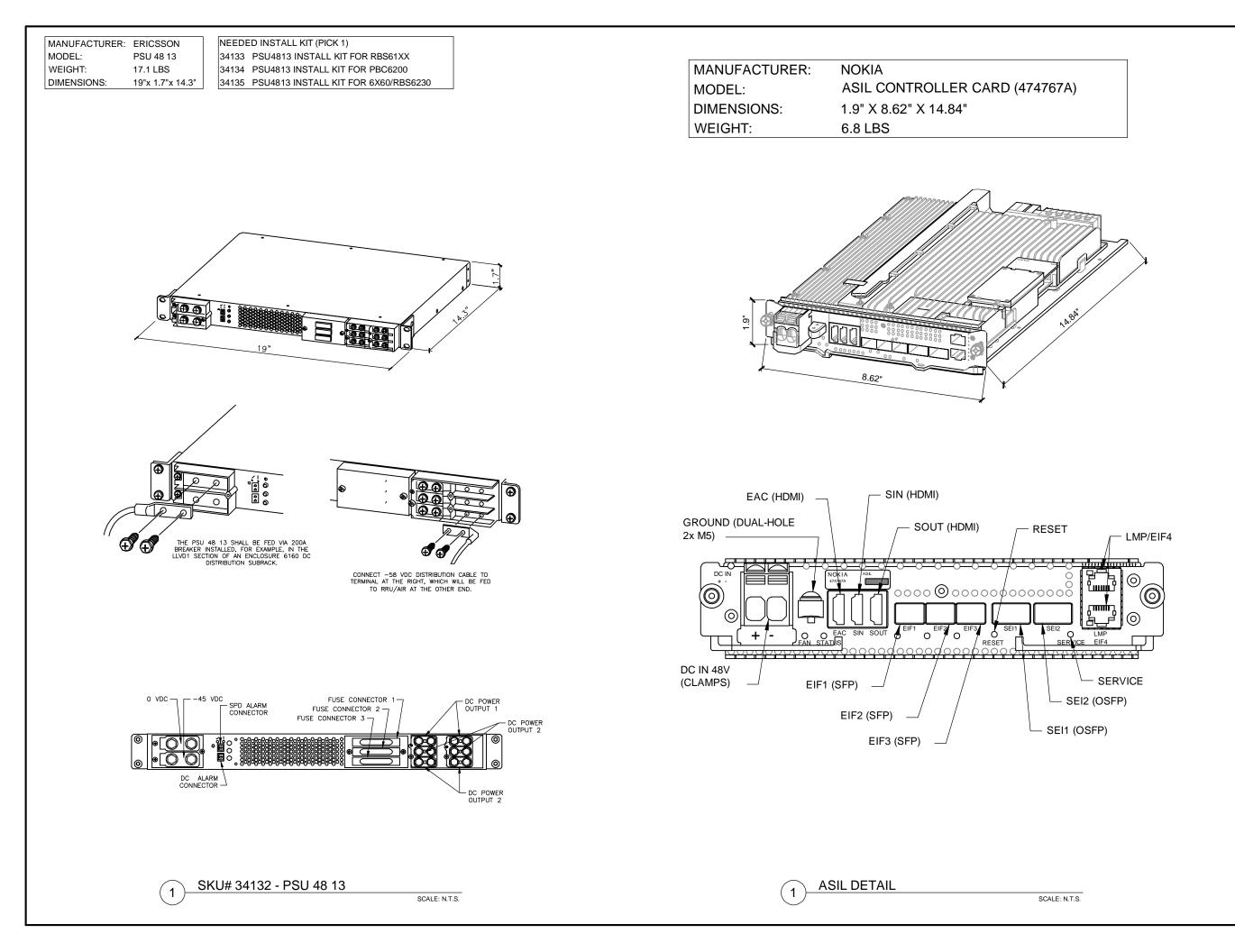
www.raycapsurgeprotection.com

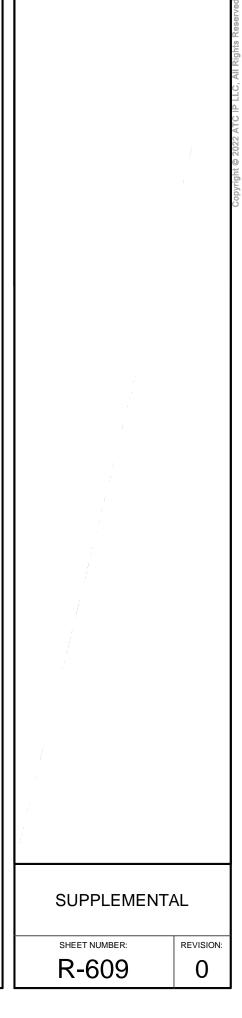


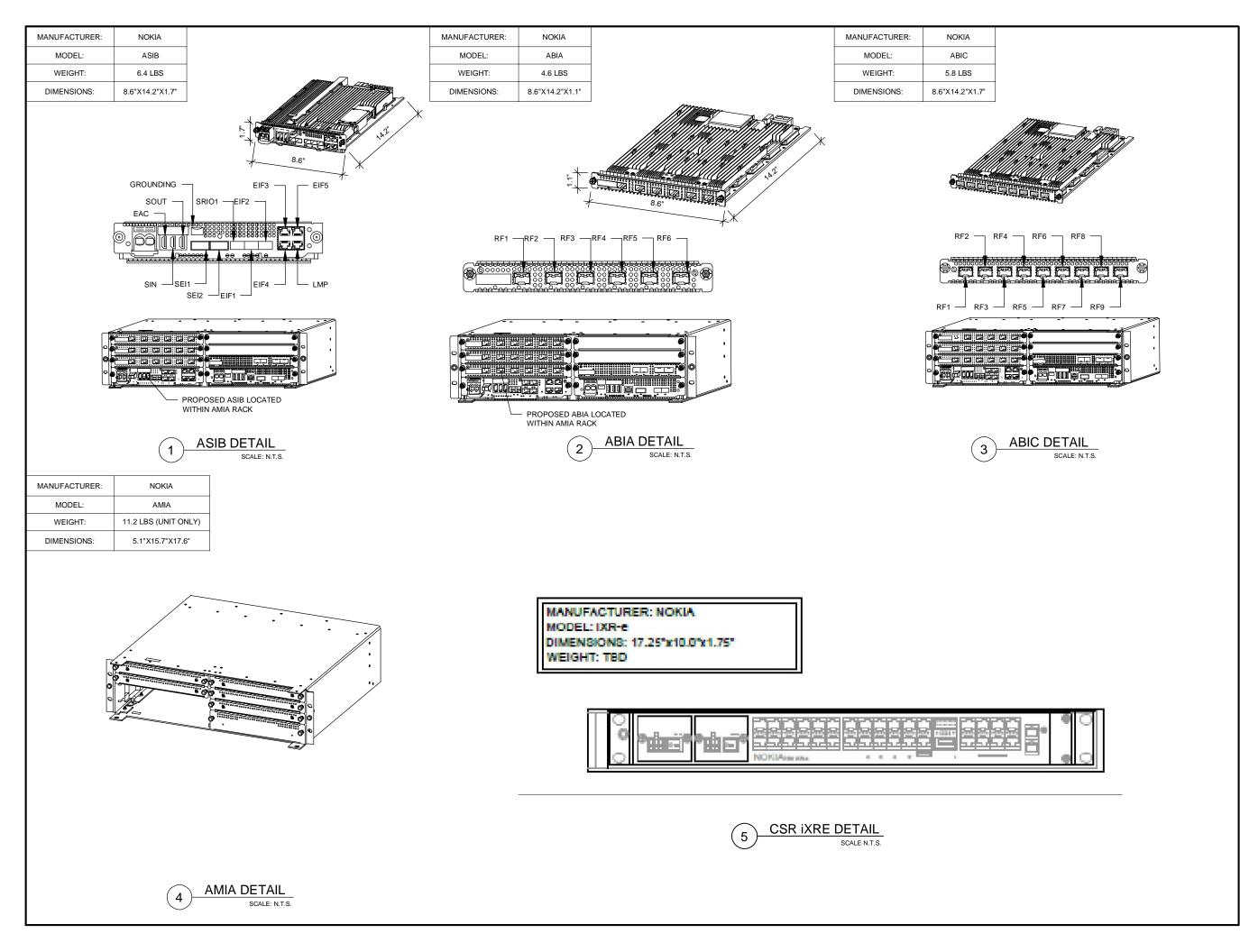


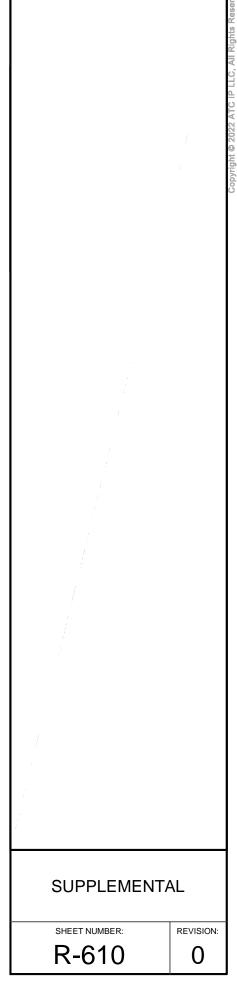
| apacity Junction Box) 7 71-PF-48) | |
|---|---------------|
| | |
| | |
| | |
| | |
| | |
| | |
| AWG (3.3 mm² - 33.6 mm²) Aluminum | |
| | |
| 7.71 kg) 33 N) | |
| | |
| | |
| | |
| | |
| Gland Kit - Installation Type T) Tower Coax Reuse (Stinger) | / |
| r Tower Coax Stinger sites- | |
| T) Tower Coax Reuse (Discrete) r Tower Coax Discrete 6AWG sites- ir | 1 |
| T) Rooftop Coax Reuse (Stinger) | |
| | |
| AWG=American Wire Gauge | |
| | |
| G02-00-167 120504 | |
| | SUPPLEM |
| | SHEET NUMBER: |
| | R-608 |

PLEMENTAL









NSB 190FT Red Battery® E 🔤 🎯 Long float life at elevated temperatures



Red Star Technology® uses pure lead plates to deliver exceptionally long float life even at elevated temperatures.

- Openating temperature range: 40°C to +65°C (40°F to 149°F)
- State-of-the-ent automated menufacturing ensures consistency and reliability
- Advanced 3 stage terminal design to ensure leak-line operation fernate M8 brass terminats provide maximum performance
- Pune lass ACM bechnology delivers long flost the british bar telecom applications even at elevated temperatures
 Super hask file at S2YC1(37Y)
 EUROBAT design ife definition: Long Life (12+ years)
 Righ energy destry
 Comparising temperatures manys:
 Operating temperatures manys:
 Pane reserver temperature Integral handles and front access terminals ensure ease of installation and maintenance
 - Approved as non-hazardous cargo for ground, sea, and an transport DOT 40DPR173 155(c), ()) and (ii)

Visit our website to find out more www.northstarbattery.com





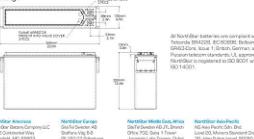
| | International Standard 2010 (6817) | North American Standard 25°C (27°F) | |
|------------------------------|------------------------------------|-------------------------------------|--|
| Shour capacity to 1.75 VPC | 188 Ah | 191 Ah | |
| 10 hour capacity to 1.80 VPC | 190 Ah | 162 Ah | |
| Plost Voltage | 2.29 +/- 0.02 VPC | 2.27 +/-0.02 VPC | |
| Nominal Voltage | 12 V | | |
| Impedance (1kHz) | 2.2 m0 @ 25°C (77°F) | | |
| Conductance | 2,400 S | | |
| Shert Circuit Current | 6.000 A | | |

320 mm 112.6 in1

| Height | 320 mm [12.6 in] | Weight | 6D kg [122 lbs] |
|--------|------------------|-----------------|-------------------|
| Wath | 125mm [4.9 in] | Terminal | Female M8 x 1.85 |
| Depth | 560 mm (22.0 in) | Terminal Torque | 8.0 Nm [71 in-bs] |

| An Capacity Hatings @ 25 | CC [777E] | | | | | |
|----------------------------|-----------|------|------|------|------|--|
| Cepecity Discharge / hours | 1 | 2 | 4 | 8 | 10 | |
| Capacity @ 25°C / Ah | 150 | 167 | 181 | 191 | 192 | |
| End of Discharge / VPC | 1.70 | 1.75 | 1.75 | 1.75 | 1.80 | |

Drawings



www.northstarbattery.com



2 Industrial Lead Acid Battery Safety Data Sheet NorthStar

3. *COMPOSITION / INFORMATION ON INGREDIENTS

| INGREDIENTS (Chemical/Common Names): | CAS No.: | % by Wc | | |
|--------------------------------------|-----------|---------|--|--|
| Lead and Lead Compounds (inorganic) | 7439-92-1 | 50 | | |
| Electrolyte (H2SO4/H2O) | 7664-93-9 | 17 | | |
| Lead Oxide | 1309-60-0 | 20 | | |
| Tin | 7440-31-5 | 0.2 | | |

4. FIRST AID MEASURES INHALATION:

Solforic Acid. Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult n physician. Lead: Remove from exposure, gargle, wash nose and lips, consult physician.

INGESTION:

Sulfuric Acid: Give large quantities of water, Do NOT induce vomiting or aspiration into the langs may occur and can cause permanent injury or death. Consult a physicium Lead: Consult a physician immediately.

SKIN:

Sulfuric Acid: Flush with large amounts of water for at least 15 minutes; remove contaminated clothing completely, including shoes. If symptoms persist, seek medical attention. Wash contaminated clothing before reuse. Discard contaminated shoes. Lead: Wash immediately with scop and water.

EYES:

Solfuric Acid and Lead: Flush immediately with large amounts of water for at least 15 minutes while lifting lide, Seek immediate medical attention if eyes have been exposed directly to acid.

5. FIRE FIGHTING MEASURES

Flash Polnt: Not Applicable Plasmable Limits: LEL = 4.1% (Illydrogen Gns in uir): UEL = 74.2% Extinguishing media: CO2; four:; day chemical. Do not use carbon disxide directly on cells. Avoid breathing vapors. Use appropriate media for surrounding fire.

Fire Fighting Procedures:

The engineer pressure, self-contained breathing appantus. Bowere of acid splatter during water application and were acid-resistant cleding, gloves, face and eye protection. If batteries are on charge, shut off power to the charging equipment, but note that strings of series connected batteries may still pose risk of electric shock even when charging equipment is shut down.

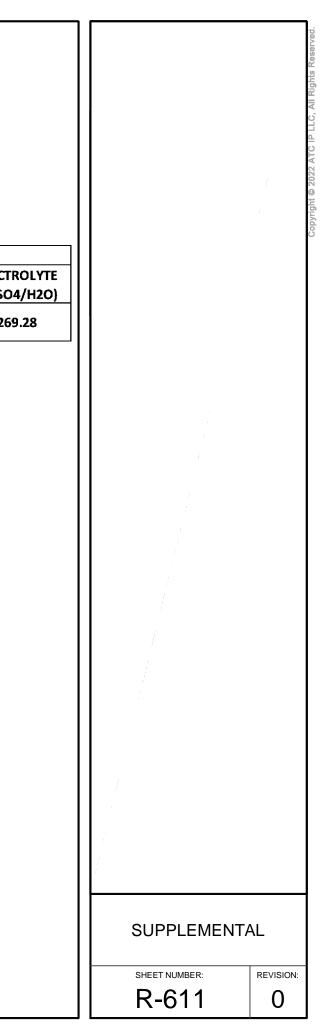


| | | BATTERY SCH | EDULE | |
|---------------------|----------|-------------|--------|------|
| MODEL | CURRENT | NOMINAL | WEIGHT | ου |
| WIODEL | CAPACITY | VOLTAGE | (LBS) | U QU |
| NORTHSTAR NSB 190FT | 190A | 12V | 132 | |

| . IDENTIFICATION | | | REVISION DATE: 01-31-18 | |
|---|---|---|---|--|
| Product Name: Lead Acid Battery, Non- Wet Synonyms: Industrial Battery, Traction Bat Stationary Battery, Deep Cycle Battery | | Product Use: Electric Storage Bottery Manufacturer/Supplier: NorthStar Bottery, Co., LLC Address: 4000 E. Continental Way, Springfield, MO 65803 | | |
| General Information Number: 417.575.8 | 200 | | Not Applicable | |
| GHS HAZARDS IDENTIFICATI | ON | CHEP/TPE/OT C | 00.181.2002 | |
| Health | E | invironmental | Physical | |
| Texicitly (OmdDermal/labulation) - Category 4 Skin Corrosion/Irritation Eye Damage - Category 1A Reproductive - Category 1A Carcinogenicity (acid mist) - Category 1A Carcinogenicity (acid mist) - Category 1A Carcinogenicity (acid mist) - Category 1A Specific Target Organ - Category 2 Toxicity (repeated exposure) | Ада | ilie Acute - 1 | | |
| HS Label: Health | | ironmental | Physical | |
| | < | ¥. | | |
| Hazard Statements DANGER! Causes severe skin burns and eye damage. Causes serious eye damage. May damage fertility or the unborn. child if ingested or inhaled. May cause cancer if ingested or inhaled. Causes damage to central nervous system, bloed and kidneys through prolonged or repeated exposure. May form explosive air/gas mixture during charging. Extremely Rummable ass (hydrosen). | Wash tho Do not ea Wear pro- protection Avoid bro dust/func- outdoors- skin irrita Contact w severe bu | ective gloves/prot offace protection. athing offact a well-ventile tion, serious eye d tion, serious eye d tih internal compo- ms. Avoid contact | when using this product. ective clothing, eye pray. Use only ted area. Crusses | |

Date: 01-31-35 ECO-101903 ISO Chapter 43.1 DON: 605-439-00607-05 Page: 2 of 10

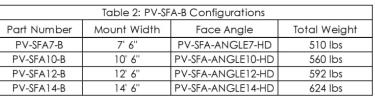
Date: 01-31-16 DCO-101600 ISD Classe: 43.1 DCN: SDS-430-00807-06 Page: 1 of 10



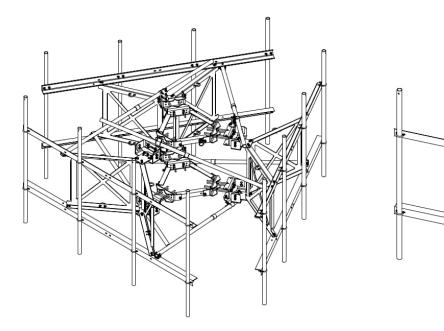
| JANTITY | ELECTROLYTE |
|---------|-----------------------|
| 12 | (H2SO4/H2O) 269.28 |

PV-SFA-B L.I.F.E. MOUNT ASSEMBLED SECTOR FRAME

| Part Number | Included Frame | Frame qty | Total Antenna Pipes | Pipe Length | HSK Included |
|-------------------|----------------|-----------|---------------------|-------------|--------------|
| PV-SFA7-3-96 | PV-SFA7-B | 1 | 3 | 96" | No |
| PV-SFA7-4-96 | PV-SFA7-B | 1 | 4 | 96" | No |
| PV-SFA7-3-126 | PV-SFA7-B | 1 | 3 | 126" | No |
| PV-SFA7-4-126 | PV-SFA7-B | 1 | 4 | 126" | No |
| PV-SFA10-3-96 | PV-SFA10-B | 1 | 3 | 96'' | No |
| PV-SFA10-4-96 | PV-SFA10-B | 1 | 4 | 96'' | No |
| PV-SFA10-3-126 | PV-SFA10-B | 1 | 3 | 126" | No |
| PV-SFA10-4-126 | PV-SFA10-B | 1 | 4 | 126" | No |
| PV-SFA12-3-96 | PV-SFA12-B | 1 | 3 | 96'' | No |
| PV-SFA12-4-96 | PV-SFA12-B | 1 | 4 | 96'' | No |
| PV-SFA12-3-126 | PV-SFA12-B | 1 | 3 | 126" | No |
| PV-SFA12-4-126 | PV-SFA12-B | 1 | 4 | 126" | No |
| PV-SFA14-4-96 | PV-SFA14-B | 1 | 4 | 96'' | No |
| PV-SFA14-5-96 | PV-SFA14-B | 1 | 5 | 96" | No |
| PV-SFA14-4-126 | PV-SFA14-B | 1 | 4 | 126" | No |
| PV-SFA14-5-126 | PV-SFA14-B | 1 | 5 | 126" | No |
| PV-SFA7-3-9-96 | PV-SFA7-B | 3 | 9 | 96" | Yes |
| PV-SFA7-3-12-96 | PV-SFA7-B | 3 | 12 | 96'' | Yes |
| PV-SFA7-3-9-126 | PV-SFA7-B | 3 | 9 | 126" | Yes |
| PV-SFA7-3-12-126 | PV-SFA7-B | 3 | 12 | 126" | Yes |
| PV-SFA10-3-9-96 | PV-SFA10-B | 3 | 9 | 96'' | Yes |
| PV-SFA10-3-12-96 | PV-SFA10-B | 3 | 12 | 96" | Yes |
| PV-SFA10-3-9-126 | PV-SFA10-B | 3 | 9 | 126" | Yes |
| PV-SFA10-3-12-126 | PV-SFA10-B | 3 | 12 | 126" | Yes |
| PV-SFA12-3-9-96 | PV-SFA12-B | 3 | 9 | 96" | Yes |
| PV-SFA12-3-12-96 | PV-SFA12-B | 3 | 12 | 96'' | Yes |
| PV-SFA12-3-9-126 | PV-SFA12-B | 3 | 9 | 126" | Yes |
| PV-SFA12-3-12-126 | PV-SFA12-B | 3 | 12 | 126" | Yes |
| PV-SFA14-3-12-96 | PV-SFA14-B | 3 | 12 | 96" | Yes |
| PV-SFA14-3-15-96 | PV-SFA14-B | 3 | 15 | 96" | Yes |
| PV-SFA14-3-12-126 | PV-SFA14-B | 3 | 12 | 126" | Yes |
| PV-SFA14-3-15-126 | PV-SFA14-B | 3 | 15 | 126" | Yes |



| Table 3: Optional Accessories | | | | |
|-------------------------------|-------------------------------------|---|--|--|
| Part Number Description | | | | |
| PV-HSK | Horizontal Support Kit | 5 | | |
| PV-SFA-8016 | Large Leg Adapter Kit | 6 | | |
| PV-SAM-U | Stiff Arm Leg Bracket | 6 | | |
| PV-SCRB-SFA | Safety Climb Cable Guide Attachment | 4 | | |

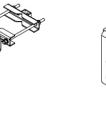


3 SECTOR WITH HSK AND PIPE

SINGLE SECTOR WITH PIPE

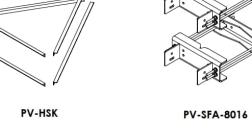
OPTIONAL ACCESSORIES



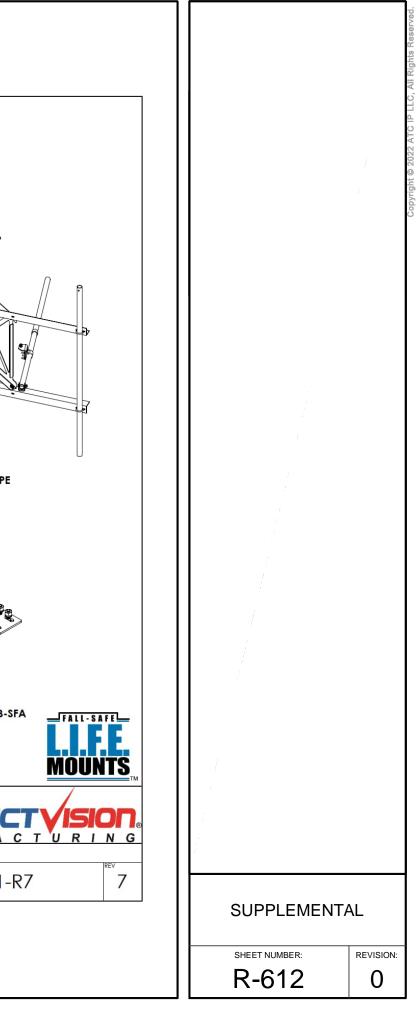


PV-SAM-U

PV-SCRB-SFA



| SHEEL | | CAIEGOR | 01_Self Support | 7 | UPDATED CLASSIFICATIONS. ADDED ADDITIONAL NOTES | 3/20/18 | |
|--|-----|---------|-------------------------|-----|---|---------|---|
| 1 OF 8 | | SERIES | 02_V-Frames - Assembled | 6 | UPDATED CLASSIFICATIONS / TEMPLATE | 8/30/17 | PERFEC |
| 5/1/2018 | NTS | TYPE | PV-SFA | 5 | MOUNT CLASSIFICATIONS | 1/19/17 | MANUFA |
| DIMENSIONS ARE IN INCHES TOLERANCES U.N.O. HOLES: +1/16", -1/32" ANGULAR: PROFILE±1/4°, BEND±2° | | BY | ЛIЛ | 4 | ADDED TIE BACK PIPE RANGE | 6/9/16 | L.I.F.E. MOUNT TM SECTOR FRAME |
| | | CHECKED | ZLZ | 3 | L.I.F.E. MOUNT™ UPDATE | 2/24/16 | SFA-ENG-01- |
| ALL OTHERS: ±1/ | | STATUS | APPROVED | REV | DESCRIPTION | DATE | SIA-LING-01- |



FRAME DETAILS:

| | Table 4: Frame (EPA) | | | | | | |
|---|----------------------|--------|--|----------------------------------|-----------------|--|--|
| | Part Number | Front | (ft ²) (EPA) _{MN} | AN Side (ft ²) (EPA) | | | |
| | r an nomber | No Ice | 0.5" Radial Ice | No Ice | 0.5" Radial Ice | | |
| | PV-SFA7-B | 9.9 | 11.3 | 5.2 | 7.4 | | |
| | PV-SFA10-B | 11.7 | 13.5 | 5.2 | 7.4 | | |
| | PV-SFA12-B | 13.0 | 15.1 | 5.2 | 7.4 | | |
| | PV-SFA14-B | 14.3 | 16.7 | 5.2 | 7.4 | | |
| н | | | | | | | |

NOTE: FRAME EPA DOES NOT INCLUDE ANTENNA PIPES

| Table 5: Tower Leg Compatibility | | | | | | |
|----------------------------------|---------------------------|----------------------------|--|--|--|--|
| Leg Type | Max Standard Bracket Size | Max Large Leg Bracket Size | | | | |
| Round | Ø8.625 | Ø16 | | | | |
| Angle 60° | 6" x 6" | 12" x 12" | | | | |
| Angle 90° | 8" x 8" | 16" x 16" | | | | |

NOTE: SEE SHEET 6 FOR LARGE LEG BRACKET DETAILS

| Table 6: Antenna Pipe Spacing | | | | | | |
|--|----------------|---|--|--|--|--|
| Part Number 3 Pipe Spacing 4 Pipe Spacing 5 Pipe Spacing | | | | | | |
| 3'6" | 2'4" | N/A | | | | |
| 5' | 3'4" | N/A | | | | |
| 6' | 4' | N/A | | | | |
| 7' | 4'8'' | 3'6" | | | | |
| | 3 Pipe Spacing | 3 Pipe Spacing 4 Pipe Spacing 3'6" 2'4" 5' 3'4" 6' 4' | | | | |

COMPATIBLE ANTENNA PIPE: Ø2-3/8"

U-BOLTS SUPPLIED FOR ϕ 2-3/8"

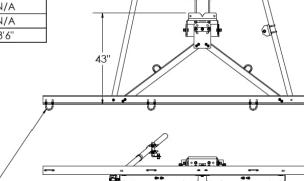
Ø2-7/8"

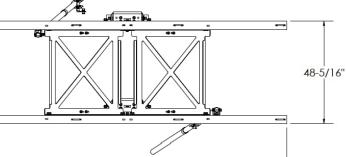
Ø3-1/2"

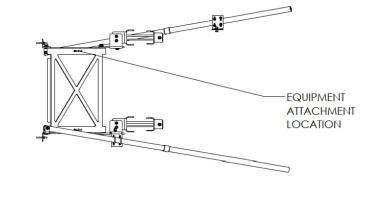
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PART IDENTIFICATION TAG-

ADJACENT SECTOR STIFF

Ø D

DETAIL

ARM ATTACHMENT POINT-

| 7'6" (PV-SFA 10'6" (PV-SFA 12'6" (PV-SFA 14'6" (PV-SFA | 10-B) 12-B) | | | | | | | |
|---|-------------------------------------|------|---------|-------------------------|-----|---|---------|--|
| | SHEEL | | CATEGOR | 01_Self Support | 7 | UPDATED CLASSIFICATIONS. ADDED ADDITIONAL NOTES | 3/20/18 | |
| | 2 OF 8 | | SERIES | 02_V-Frames - Assembled | 6 | UPDATED CLASSIFICATIONS / TEMPLATE | 8/30/17 | PERFE |
| | 5/1/2018 | I:36 | TYPE | PV-SFA | 5 | MOUNT CLASSIFICATIONS | 1/19/17 | MANUF |
| | DIMENSIONS AR | | ВҮ | DJN | 4 | ADDED TIE BACK PIPE RANGE | | L.I.F.E. MOUNT TM SECTOR FRA/ |
| | TOLERANCES U.I HOLES: +1/16", -1 | | CHECKED | SLS | 3 | L.I.F.E. MOUNT™ UPDATE | 2/24/16 | |
| | ALL OTHERS: ±1/ | | STATUS | APPROVED | REV | DESCRIPTION | DATE | SFA-ENG-(|

BOLTS TO ADJACENT SECTOR LEG

(FOR SINGLE SECTOR INSTALLATION

TAPER ADJUSTMENT POINT-

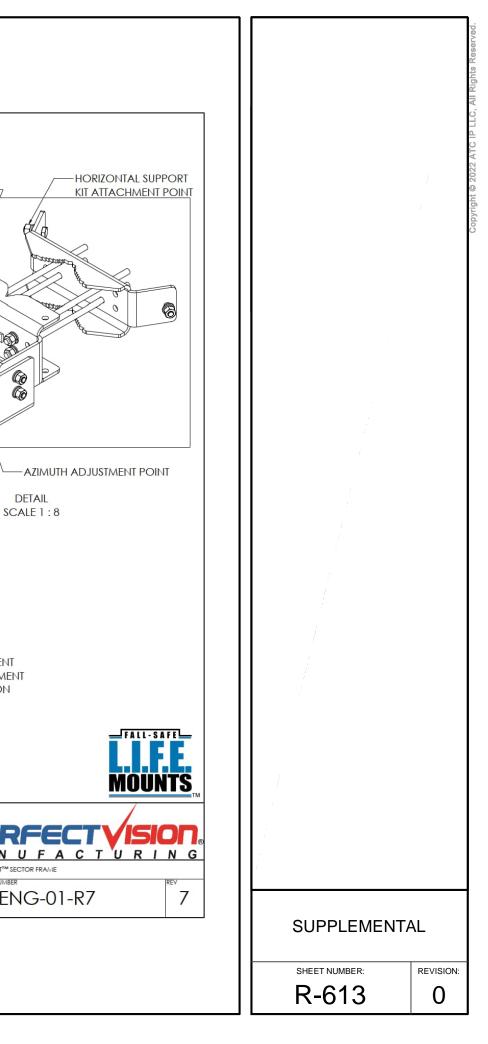
REQUIREMENTS, SEE SHEET 6)

BRACKET

8

Ø.

DETAIL SCALE 1:12



MOUNT CLASSIFICATIONS:

REFERENCE STRUCTURAL LETTER (SFA-STL-01-R1) FOR ADDITIONAL LOADING REQUIREMENTS

MOUNT CLASSIFICATION INFORMATION

- MAX STRUCTURE HEIGHT: 400ft
- . STRUCTURE CLASS: I OR II
- EXPOSURE CATEGORY: B OR C
- TOPOGRAPHIC CATEGORY: 1
- DESIGN WIND PRESSURE (NO ICE): 135psf
- DESIGN WIND PRESSURE (ICED):15psf
- DESIGN ICE THICKNESS: 2.75in Radial

APPROVED MOUNT CLASSIFICATIONS*

- M700R-4[6] •
- M800R-4[6] •
- M900R-4[6]
- M950R-4[6] .
- M1000R-4[6]
- M1400R-4[6]
- M1600R-4[6]
- HEAVY-5
- HEAVY-10
- HEAVY-WLL (PV-SFA14-B ONLY) •

APPROVED MOUNT CLASSIFICATIONS (ICED)*

- M1000R(i)-4[6] •
- M1150R(i)-4[6]
- HEAVY-5
- . HEAVY-10
- HEAVY-WLL (PV-SFA14-B ONLY) •

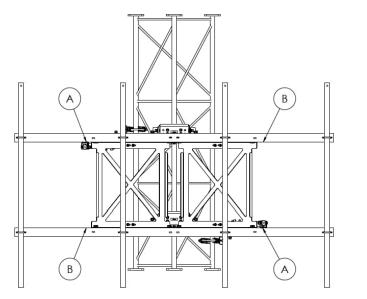
NOTES:

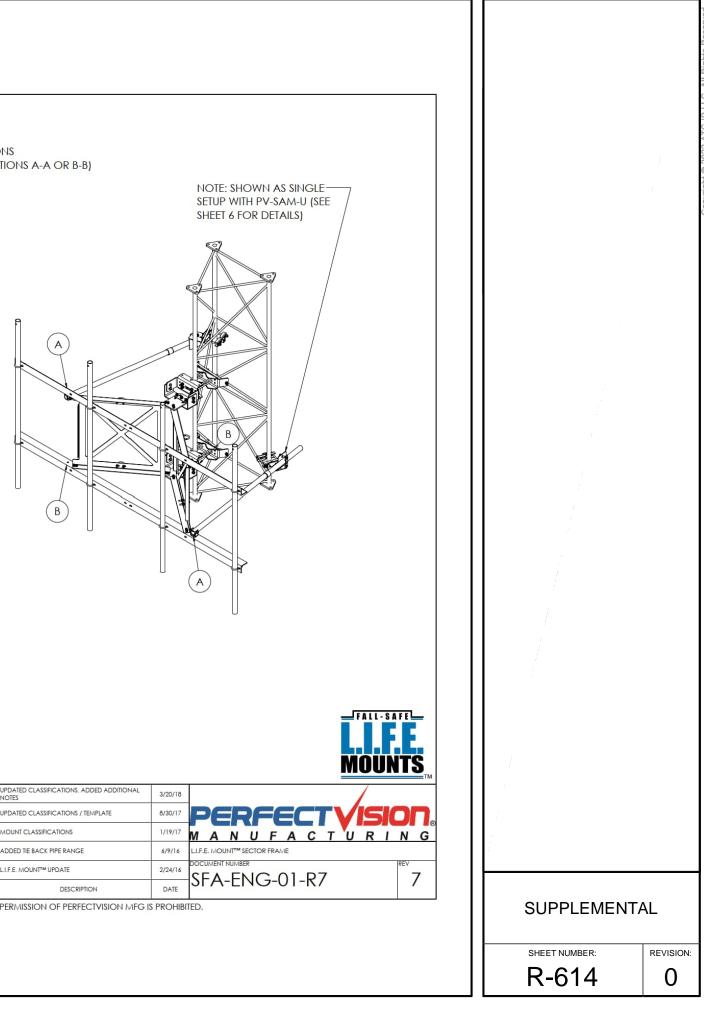
*UNLESS NOTES, APPLIES TO PV-SFA7-B, PV-SFA10-B, PV-SFA12-B, AND PV-SFA14-B MOUNTS

PERFECTVISION MANUFACTURING HIGHLY RECOMMENDS SPECIFYING THE PV-HSK (SEE SHEET 5) HORIZONTAL SUPPORT KIT TO INTERCONNECT SECTORS ON TOWERS WITH FACE WIDTHS LESS THAN 10FT AND LEG DIAMETERS LESS THAN 4IN OD.

STIFF ARM INSTALLATION:

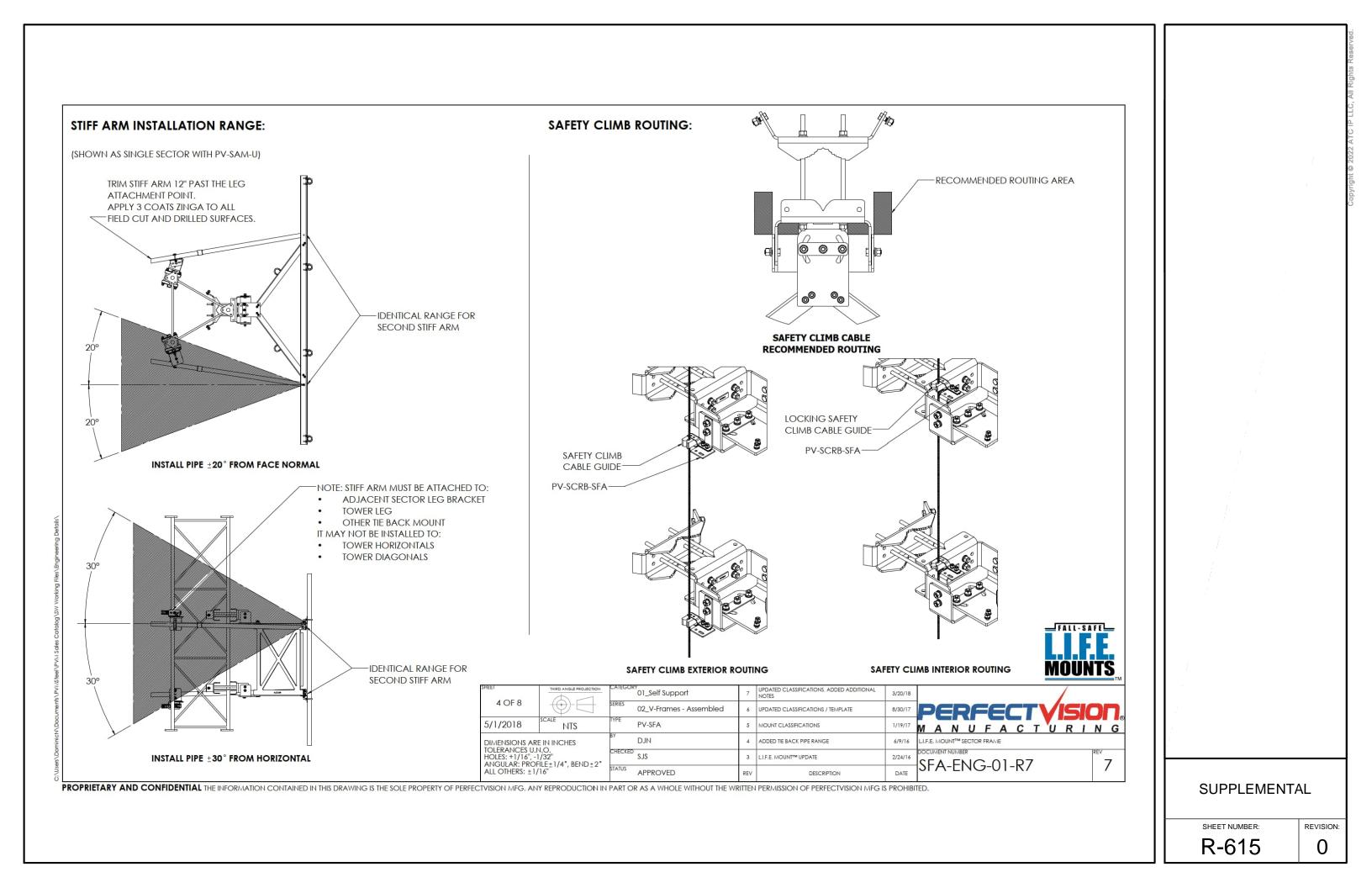
- (2) STIFF ARMS ARE REQUIRED TO MEET APPROVED MOUNT CLASSIFICATIONS •
- . STIFF ARMS MUST BE INSTALLED ON OPPOSITE CORNERS OF FRAME (LOCATIONS A-A OR B-B)
- DO NOT INSTALL STIFF ARMS IN AN A-B CONFIGURATION •

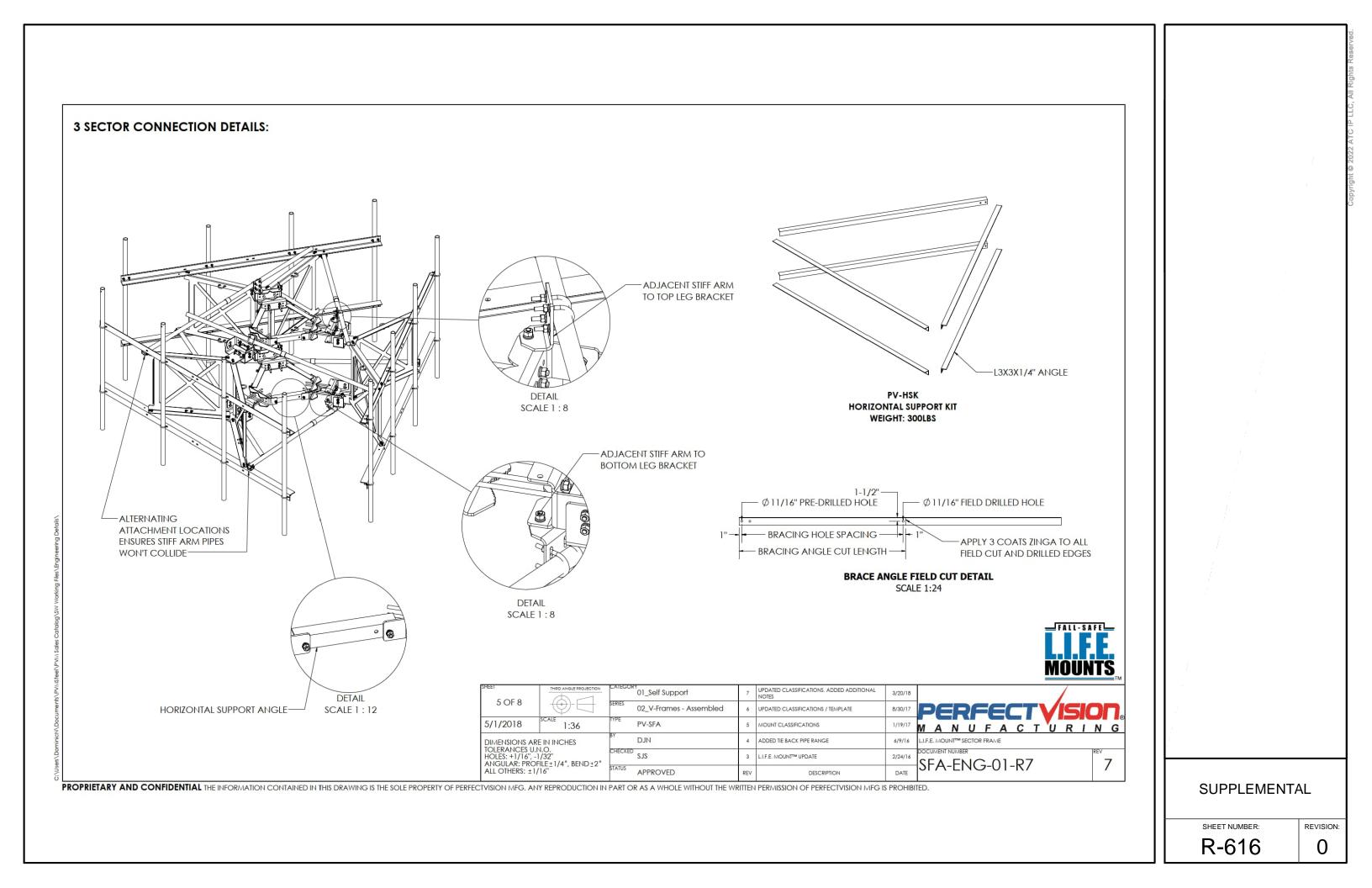




| 3 OF 8 | $\varphi \sqcup$ | SERIES | 01_Self Support | 7 | UPDATED CLASSIFICATIONS. ADDED ADDITIONAL NOTES | 3/20/18 | |
|---|--------------------------|--------|-------------------------|-----|---|---------|---|
| | | | 02_V-Frames - Assembled | 6 | UPDATED CLASSIFICATIONS / TEMPLATE | 8/30/17 | PERFEC |
| 5/1/2018 | I:36 | TYPE | PV-SFA | 5 | MOUNT CLASSIFICATIONS | 1/19/17 | MANUFA |
| | DIMENSIONS ARE IN INCHES | | DJN | 4 | ADDED TIE BACK PIPE RANGE | 6/9/16 | L.I.F.E. MOUNT TM SECTOR FRAME |
| TOLERANCES U.N.O., HOLES: +1/16", -1/32" ANGULAR: PROFILE ±1/4°, BEND ±2° ALL OTHERS: ±1/16" | | " | SLS | 3 | L.I.F.E. MOUNT™ UPDATE | 2/24/16 | SFA-ENG-01- |
| | | STATUS | APPROVED | REV | DESCRIPTION | DATE | SFA-ENG-01- |







PV-SAM-U:

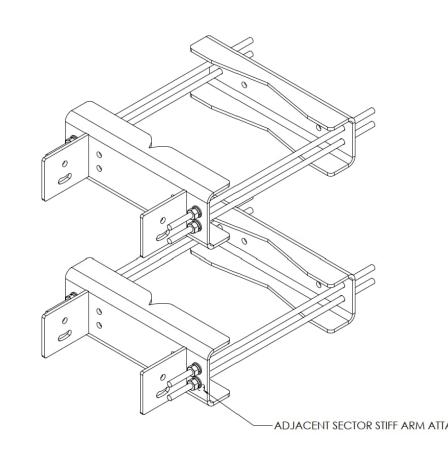
FOR SINGLE SECTOR INSTALLATIONS, (2) PV-SAM-U WILL BE REQUIRED PER FRAME TO ALLOW STIFF ARM PIPES TO ATTACH TO TOWER LEGS.

FOR 3 SECTOR INSTALLATIONS, THE PV-SAM-U IS NOT REQUIRED.

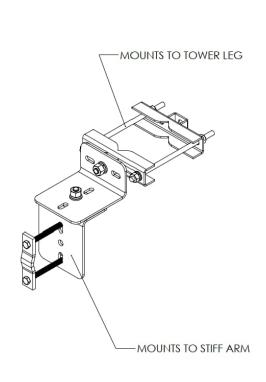
PV-SFA-8016

FOR LARGE LEG TOWERS, INSTALL THE PV-SFA-8016 LARGE LEG BRACKETS IN PLACE OF THE STANDARD SUPPLIED BRACKETS.

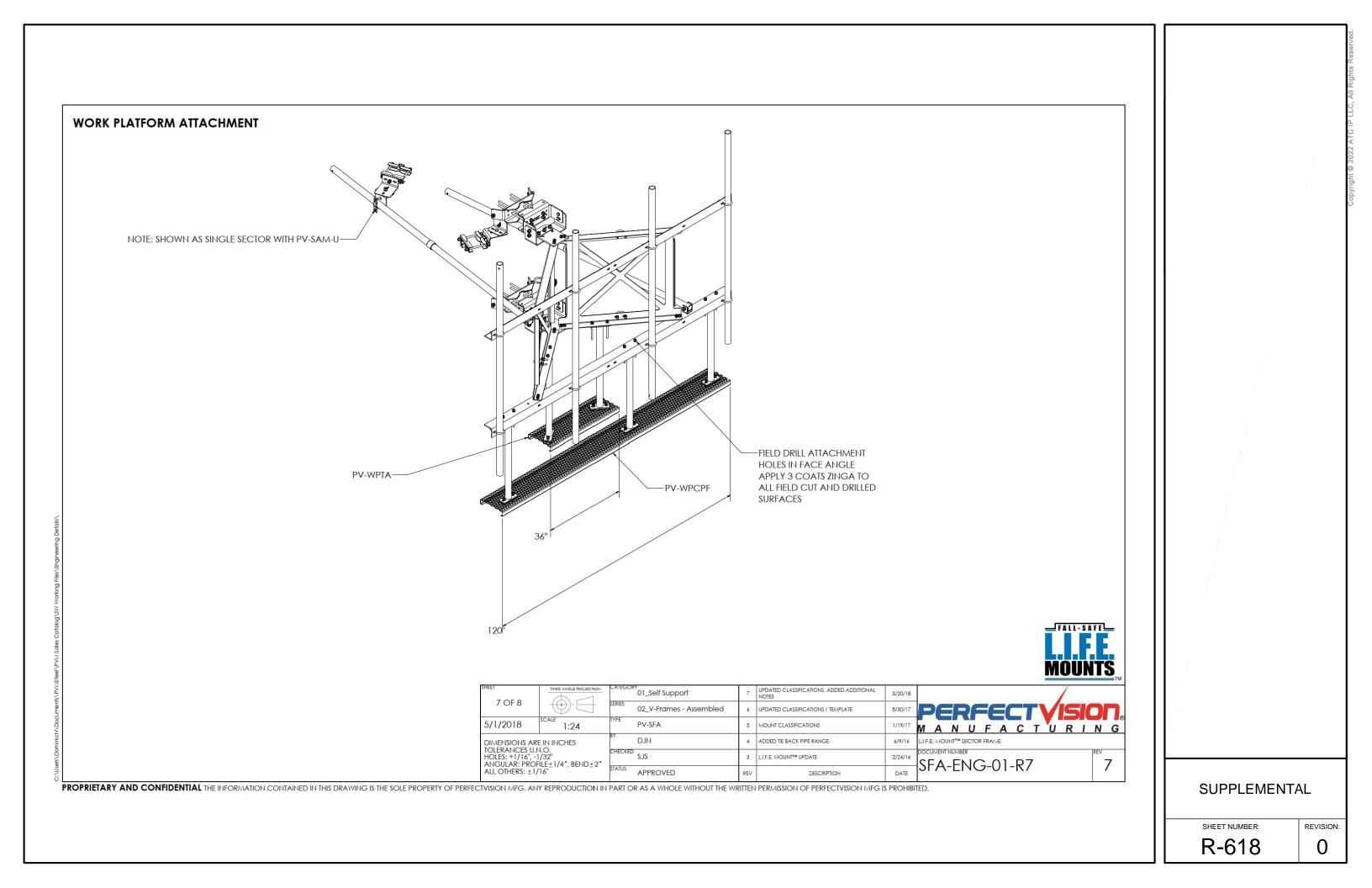
FOR LARGE LEG APPLICATIONS, THE PV-HSK IS NOT REQUIRED.



| 6 OF 8 | | CATEGO | 01_Self Support | 7 | UPDATED CLASSIFICATIONS. ADDED ADDITIONAL NOTES | 3/20/18 | |
|--|-----|---------|-------------------------|-----|---|---------|---|
| | | SERIES | 02_V-Frames - Assembled | 6 | UPDATED CLASSIFICATIONS / TEMPLATE | 8/30/17 | PERFECT |
| 5/1/2018 | I:8 | TYPE | PV-SFA | 5 | MOUNT CLASSIFICATIONS | 1/19/17 | MANUFACT |
| DIMENSIONS ARE IN INCHES TOLERANCES U.N.O. HOLES: +1/16", -1/32" ANGULAR: PROFILE ±1/4°, BEND ±2° ALL OTHERS: ±1/16" | | BY | ИГО | 4 | ADDED TIE BACK PIPE RANGE | | L.I.F.E. MOUNT TM SECTOR FRAME |
| | | CHECKED | SLS | 3 | L.I.F.E. MOUNT™ UPDATE | 2/24/16 | SFA-ENG-01-R7 |
| | | STATUS | APPROVED | REV | DESCRIPTION | DATE | SFA-ENG-UI-K/ |



| | | ts Reserved |
|-------------------|------------------------|---|
| | | Convridité © 2022 ATC IP LLC. All Richts Reserved |
| | | |
| | | |
| ACHMENT POINT | | |
| | | |
| URING REV 7 | | |
| | SHEET NUMBER: R-617 | |



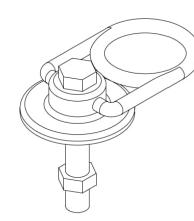
10K SWIVEL ANCHOR

SWIVEL ANCHOR ATTACHMENT NOTES:

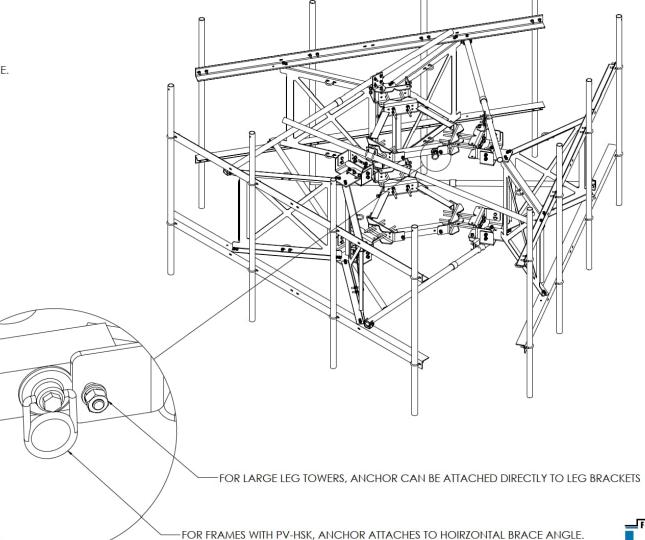
- 4" OD AND SMALLER LEGS REQUIRE ADDITIONAL BRACING BEFORE SWIVLE ANCHORS CAN BE INSTALLED. SEE SHEET 5 FOR PV-HSK INSTALLTION DETAILS.
- LARGE LEG TOWERS DO NOT REQUIRE BRACING DUE TO THE STRUCTURAL CAPACITY OF THE TOWER.
- MAX (1) SWIVEL ANCHORS MAY BE INSTALLED PER LEG ATTACHMENT BRACKET
 - SWIVEL ANCHOR SPECS:
 - UTS: 10,000 LBF

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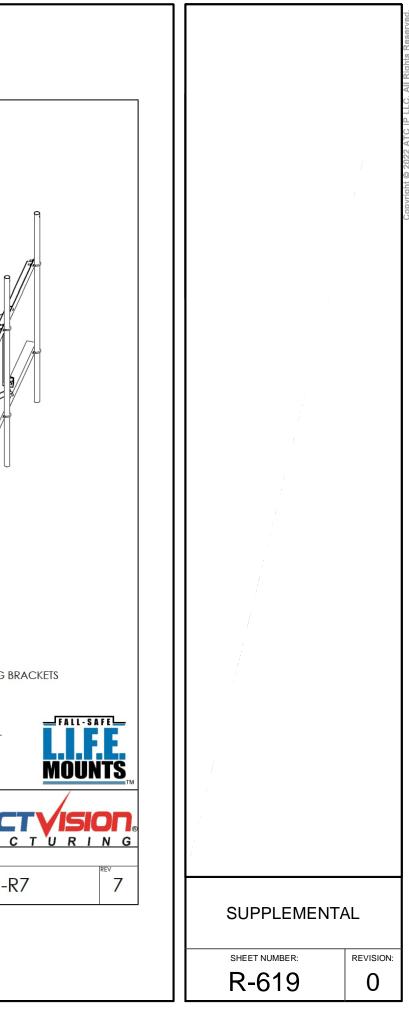
- MAX USER WEIGHT: 310 LBS
- WORKING LOAD: 2,000 LBS
- FOLLOW MANUFACTURER SPECIFICATIONS FOR SWIVEL ANCHOR INSTALLATION AND MAINTENANCE.



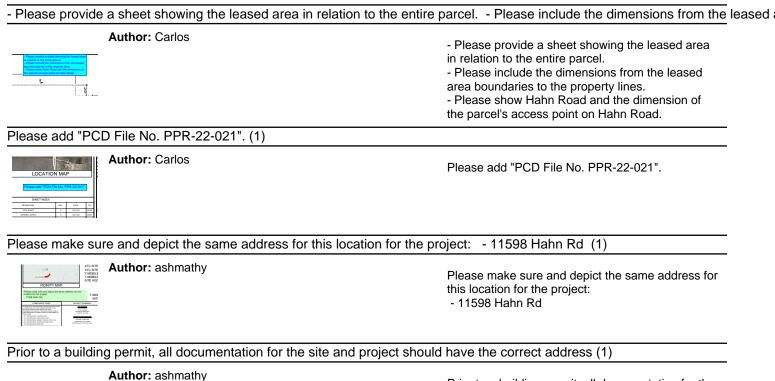
HD26226 10K SWIVEL ANCHOR



| 8 OF 8 | | SERIES | 01_Self Support | 7 | UPDATED CLASSIFICATIONS. ADDED ADDITIONAL NOTES | 3/20/18 | |
|--|-----|---------|-------------------------|-----|---|---------|---|
| | | | 02_V-Frames - Assembled | 6 | UPDATED CLASSIFICATIONS / TEMPLATE | 8/30/17 | PERFEC |
| 5/1/2018 | NTS | TYPE | PV-SFA | 5 | MOUNT CLASSIFICATIONS | 1/19/17 | MANUFA |
| DIMENSIONS ARE IN INCHES TOLERANCES U.N.O. HOLES: +1/16", -1/32" ANGULAR: PROFILE + 1/4°, BEND + 2° | | CHECKED | ЛИ | 4 | ADDED TIE BACK PIPE RANGE | | L.I.F.E. MOUNT TM SECTOR FRAME |
| | | | SLS | 3 | L.I.F.E. MOUNT [™] UPDATE | 2/24/16 | SFA-ENG-01- |
| ALL OTHERS: ±1/ | | STATUS | APPROVED | REV | DESCRIPTION | DATE | SIA-LING-01- |



Site Development Plan_v1.pdf Markup Summary



Aution. asin

Prior to a building permit, all documentation for the site and project should have the correct address