

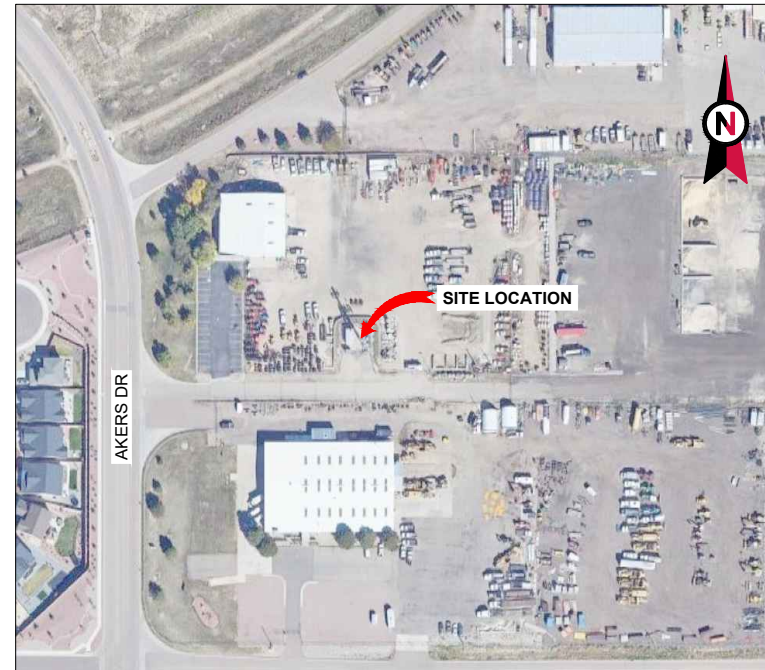
VICINITY MAP



**AMERICAN TOWER®**

ATC SITE NAME: ELSMERE CO 1  
 ATC SITE NUMBER: 302459  
 AT&T MOBILITY SITE ID: SICO004762  
 AT&T MOBILITY FA CODE: 10102196  
 AT&T MOBILITY SITE NAME: CONSTITUTION & HWY 24  
 USID: 49059  
 SITE ADDRESS: 2865 AKERS DR  
 COLORADO SPRINGS, CO 80922-1520

AT&T MOBILITY PACE NUMBER: **WSUTH0051541**,  
 WSUTH0051717, WSUTH0052177, WSUTH0051698,  
 WSUTH0052119, WSUTH0051669, WSUTH0052049,  
 WSUTH0051541, WSUTH0051683, WSUTH0051719



LOCATION MAP

**BIRD WATCH SITE:**  
 PLEASE CONTACT [bird.watch@americantower.com](mailto:bird.watch@americantower.com) OR  
 AMERICAN TOWER NOC AT 877-518-6937 FOR ASSISTANCE

**AT&T MOBILITY  
 ANTENNA AMENDMENT PLAN**

COMPLIANCE CODE	PROJECT SUMMARY	PROJECT DESCRIPTION	SHEET INDEX										
ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.  1. 2021 INTERNATIONAL BUILDING CODE (IBC) 2. 2020 NATIONAL ELECTRIC CODE (NEC) 3. LOCAL BUILDING CODE 4. CITY/COUNTY ORDINANCES	<u>SITE ADDRESS:</u> 2865 AKERS DR COLORADO SPRINGS, CO 80922-1520  COUNTY: EL PASO  <u>GEOGRAPHIC COORDINATES:</u> LATITUDE: 38.87489 LONGITUDE: -104.68621  GROUND ELEVATION: 6,542' AMSL  <u>ZONING INFORMATION:</u> JURISDICTION: EL PASO COUNTY PARCEL ID: 5332001014	THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW: <u>TOWER WORK:</u> REMOVE (6) ANTENNA(S), (15) RRH(S), (6) DIPLEXER(S), AND (3) TMA(S).  INSTALL (3) ANTENNA(S), (9) RRU(S) AND MOUNT MODIFICATION(S).  EXISTING (6) ANTENNA(S), (3) SQUID(S), (6) 7/8" COAX CABLE(S), (3) 0.39" (10 MM) FIBER TRUNK(S), (1) 3/8" (9.5 MM) RET CONTROL CABLE(S), AND (6) 0.78" (19.7 MM) 8 AWG 6 DC POWER TRUNK(S) TO REMAIN.  <u>GROUND WORK:</u> REMOVE (2) NOKIA FSM4 BBU(S).  INSTALL (1) PURCELL FLX42 CABINET(S), (1) VERTIV CONVERTER SHEL(VES), (9) -48VDC-58VDC CONVERTER(S), (3) 50A AIR6472 B77D B77M DC BREAKER(S), (3) 50A 4490 B5/B12A DC BREAKER(S), (3) 50A 4890 B25/B66 DC BREAKER(S), (3) 50A 4494 B14/B29 DC BREAKER(S), (2) 15A 6651 BBU DC BREAKER(S), (1) 25A 6601 DC BREAKER(S), (2) 6651 BBU(S), (1) 6601 SITE CONTROLLER(S), (1) 100A FLX FEED(S), AND (2) 300A -58 CONV FEED(S).	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:						
	<u>PROJECT TEAM</u>  <table border="0"> <tr> <td><u>TOWER OWNER:</u></td> <td><u>APPLICANT:</u></td> </tr> <tr> <td>AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801</td> <td>AT&amp;T MOBILITY</td> </tr> <tr> <td><u>ENGINEER:</u></td> <td><u>PROPERTY OWNER:</u></td> </tr> <tr> <td>TEP 326 TRYON RD RALEIGH, NC 27603</td> <td>PEAKS PIKE HOLDINGS LLC 3995 KAKATOSI LN COLORADO SPRINGS, CO 80908-3239</td> </tr> </table>		<u>TOWER OWNER:</u>	<u>APPLICANT:</u>	AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801	AT&T MOBILITY	<u>ENGINEER:</u>	<u>PROPERTY OWNER:</u>	TEP 326 TRYON RD RALEIGH, NC 27603	PEAKS PIKE HOLDINGS LLC 3995 KAKATOSI LN COLORADO SPRINGS, CO 80908-3239	G-001	TITLE SHEET	0
<u>TOWER OWNER:</u>	<u>APPLICANT:</u>												
AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801	AT&T MOBILITY												
<u>ENGINEER:</u>	<u>PROPERTY OWNER:</u>												
TEP 326 TRYON RD RALEIGH, NC 27603	PEAKS PIKE HOLDINGS LLC 3995 KAKATOSI LN COLORADO SPRINGS, CO 80908-3239												
<u>UTILITY COMPANIES</u>  POWER COMPANY: MOUNTAIN VIEW ELECTRIC ASSOCIATION PHONE: (888) 890-5554  TELEPHONE COMPANY: CENTURYLINK PHONE: (800) 388-9881	<u>PROJECT LOCATION DIRECTIONS</u>  I-25 EXIT 146, GO EAST ON AUSTIN BLUFFS PKWY TO BARNES RD., THEN SOUTH ON MARKSHEFFEL RD., WEST ON ELECTRONIC DR., THEN NORTH TO 2865 AKERS DR.	<u>PROJECT NOTES</u>  1. THE FACILITY IS UNMANNED. 2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE. 3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. 4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED. 5. HANDICAP ACCESS IS NOT REQUIRED. 6. THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT INVOLVES THE COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR § 1.61000 (B)(7).	C-001	GENERAL NOTES	0	01/31/25	ASB						
			C-001	OVERALL SITE PLAN	0	01/31/25	ASB						
			C-101	DETAILED SITE PLAN	0	01/31/25	ASB						
			C-102	DETAILED EQUIPMENT LAYOUT	0	01/31/25	ASB						
			C-201	TOWER ELEVATION	0	01/31/25	ASB						
			C-401	ANTENNA INSTALLATION	0	01/31/25	ASB						
			C-402	ANTENNA SCHEDULE	0	01/31/25	ASB						
			C-501	CONSTRUCTION DETAILS	0	01/31/25	ASB						
			E-101	ELECTRICAL PANELS	0	01/31/25	ASB						
			E-102	ELECTRICAL PANELS	0	01/31/25	ASB						
			E-103	GROUNDING PLAN	0	01/31/25	ASB						
			E-501	GROUNDING DETAILS	0	01/31/25	ASB						
			R-601 - R-607	SUPPLEMENTAL									

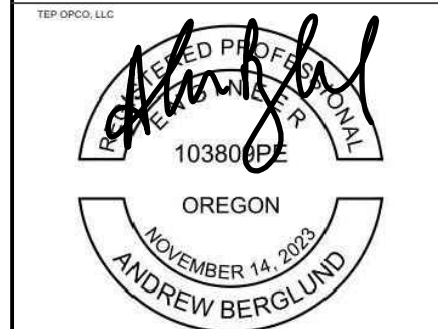


326 TRYON ROAD  
 RALEIGH, NC 27603-3530  
 OFFICE: (919) 661-6351  
[www.tepgroup.net](http://www.tepgroup.net)

TEP IS A FAMILY OF COMPANIES LICENSED TO PROVIDE DIFFERENT SERVICES IN DIFFERENT JURISDICTIONS. DEPENDING ON THE JURISDICTION, PROFESSIONAL ENGINEERING AND LAND SURVEYING SERVICES ARE PROVIDED BY TEP OPCO LLC, A DELAWARE LIMITED LIABILITY COMPANY, TEP ENGINEERING, LLC, A NORTH CAROLINA PROFESSIONAL LIMITED LIABILITY COMPANY, OR M&H ENGINEERING, LLC, A NEW YORK PROFESSIONAL LIMITED LIABILITY COMPANY. GENERAL CONTRACTOR SERVICES ARE PROVIDED BY TEP OPCO LLC, A DELAWARE LIMITED LIABILITY COMPANY. WE ACQUIRE THE REQUISITE LICENSES IN EACH STATE. ADDITIONAL INFORMATION CAN BE OBTAINED FROM THE COMPANY.

REV.	DESCRIPTION	BY	DATE
A	PRELIMINARY	ASB	12/18/24
0	100% CONSTRUCTION	ASB	01/31/25

ATC SITE NUMBER: 302459  
 ATC SITE NAME: ELSMERE CO 1  
 AT&T MOBILITY SITE NUMBER:  
 SICO004762  
 AT&T MOBILITY SITE NAME:  
 CONSTITUTION & HWY 24  
 SITE ADDRESS:  
 2865 AKERS DR  
 COLORADO SPRINGS, CO 80922-1520



EXPIRES: 12-31-2025 01/31/25



DATE DRAWN:	01/31/25
ATC JOB NO:	14885421
CUSTOMER NAME:	CONSTITUTION & HWY 24
CUSTOMER ID:	SICO004762

TITLE SHEET

SHEET NUMBER:	REVISION:
G-001	0



Know what's below.  
 Call before you dig.

**GENERAL CONSTRUCTION NOTES:**

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

ITEMS PROVIDED.

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

**SPECIAL CONSTRUCTION**

**ANTENNA INSTALLATION NOTES:**

1. WORK INCLUDED:
  - A. ANTENNA AND COAXIAL CABLES ARE FURNISHED BY AT&T MOBILITY 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 AT&T MOBILITY 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.
  - F. 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:

2. 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.**



PLANS PREPARED BY:



326 TRYON ROAD  
RALEIGH, NC 27603-3530  
OFFICE: (919) 661-6351  
www.tepgroup.net

TEP IS A FAMILY OF COMPANIES LICENSED TO PROVIDE DIFFERENT SERVICES IN DIFFERENT JURISDICTIONS. DEPENDING ON THE JURISDICTION, PROFESSIONAL ENGINEERING AND LAND SURVEYING SERVICES ARE PROVIDED BY TEP OPCO LLC, A DELAWARE LIMITED LIABILITY COMPANY, TEP ENGINEERING, LLC, A NORTH CAROLINA PROFESSIONAL LIMITED LIABILITY COMPANY, OR M&H ENGINEERING, LLC, A NEW YORK PROFESSIONAL LIMITED LIABILITY COMPANY. GENERAL CONTRACTOR SERVICES ARE PROVIDED BY TEP OPCO LLC, A DELAWARE LIMITED LIABILITY COMPANY. WE ACQUIRE THE REQUISITE LICENSES IN EACH STATE. ADDITIONAL INFORMATION CAN BE OBTAINED FROM THE COMPANY.

REV.	DESCRIPTION	BY	DATE
A	PRELIMINARY	ASB	12/18/24
0	100% CONSTRUCTION	ASB	01/31/25

ATC SITE NUMBER: 302459  
ATC SITE NAME: ELSMERE CO 1  
AT&T MOBILITY SITE NUMBER:  
**SICO004762**  
AT&T MOBILITY SITE NAME:  
**CONSTITUTION & HWY 24**  
SITE ADDRESS:  
2865 AKERS DR  
COLORADO SPRINGS, CO 80922-1520



SEAL: EXPIRES: 12-31-2025 01/31/25



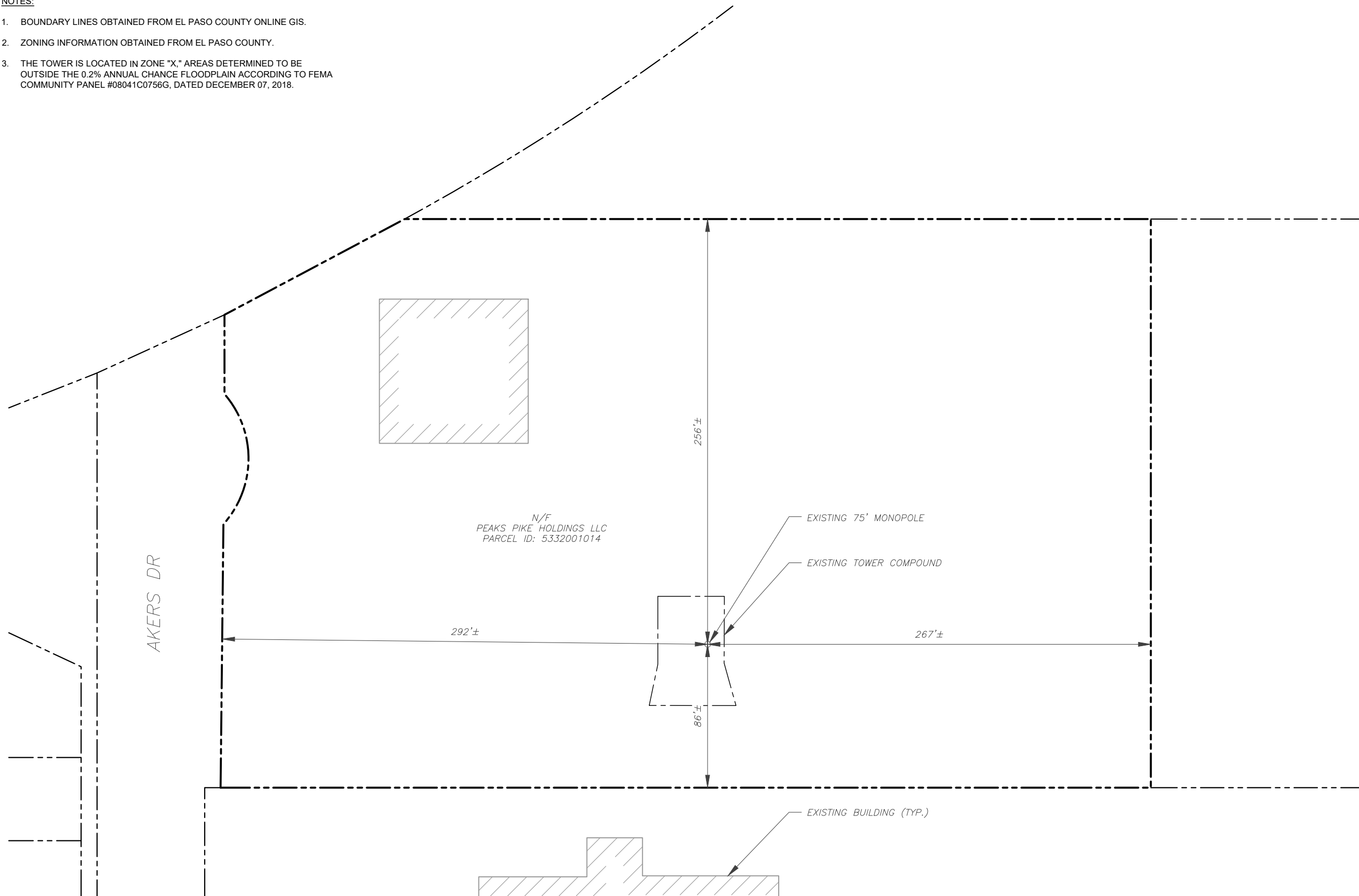
DATE DRAWN:	01/31/25
ATC JOB NO:	14885421
CUSTOMER NAME:	CONSTITUTION & HWY 24
CUSTOMER ID:	SICO004762

**GENERAL NOTES**

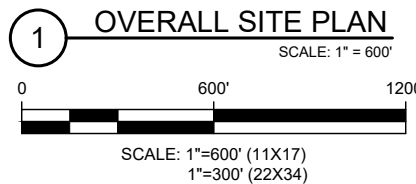
SHEET NUMBER: <b>G-002</b>	REVISION: <b>0</b>
-------------------------------	-----------------------

**NOTES:**

- BOUNDARY LINES OBTAINED FROM EL PASO COUNTY ONLINE GIS.
- ZONING INFORMATION OBTAINED FROM EL PASO COUNTY.
- THE TOWER IS LOCATED IN ZONE "X," AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN ACCORDING TO FEMA COMMUNITY PANEL #08041C0756G, DATED DECEMBER 07, 2018.



LEGEND	
	EXISTING PROPERTY LINE
	EXISTING ADJACENT PROPERTY LINE
	EXISTING LEASE AREA



PLANS PREPARED BY:



326 TRYON ROAD  
RALEIGH, NC 27603-3530  
OFFICE: (919) 661-6351  
www.tepgroup.net

TEP IS A FAMILY OF COMPANIES LICENSED TO PROVIDE DIFFERENT SERVICES IN DIFFERENT JURISDICTIONS. DEPENDING ON THE JURISDICTION, PROFESSIONAL ENGINEERING AND LAND SURVEYING SERVICES ARE PROVIDED BY TEP OPCO LLC, A DELAWARE LIMITED LIABILITY COMPANY, TEP ENGINEERING, LLC, A NORTH CAROLINA PROFESSIONAL LIMITED LIABILITY COMPANY, OR M&H ENGINEERING, LLC, A NEW YORK PROFESSIONAL LIMITED LIABILITY COMPANY. GENERAL CONTRACTOR SERVICES ARE PROVIDED BY TEP OPCO LLC, A DELAWARE LIMITED LIABILITY COMPANY. WE ACQUIRE THE REQUISITE LICENSES IN EACH STATE. ADDITIONAL INFORMATION CAN BE OBTAINED FROM THE COMPANY.

REV.	DESCRIPTION	BY	DATE
A	PRELIMINARY	ASB	12/18/24
0	100% CONSTRUCTION	ASB	01/31/25

ATC SITE NUMBER: 302459  
ATC SITE NAME: ELSMERE CO 1  
AT&T MOBILITY SITE NUMBER:  
SICO004762  
AT&T MOBILITY SITE NAME:  
CONSTITUTION & HWY 24  
SITE ADDRESS:  
2865 AKERS DR  
COLORADO SPRINGS, CO 80922-1520

TEP OPCO, LLC



SEAL: EXPIRES: 12-31-2025 01/31/25



DATE DRAWN:	01/31/25
ATC JOB NO:	14885421
CUSTOMER NAME:	CONSTITUTION & HWY 24
CUSTOMER ID:	SICO004762

OVERALL SITE PLAN

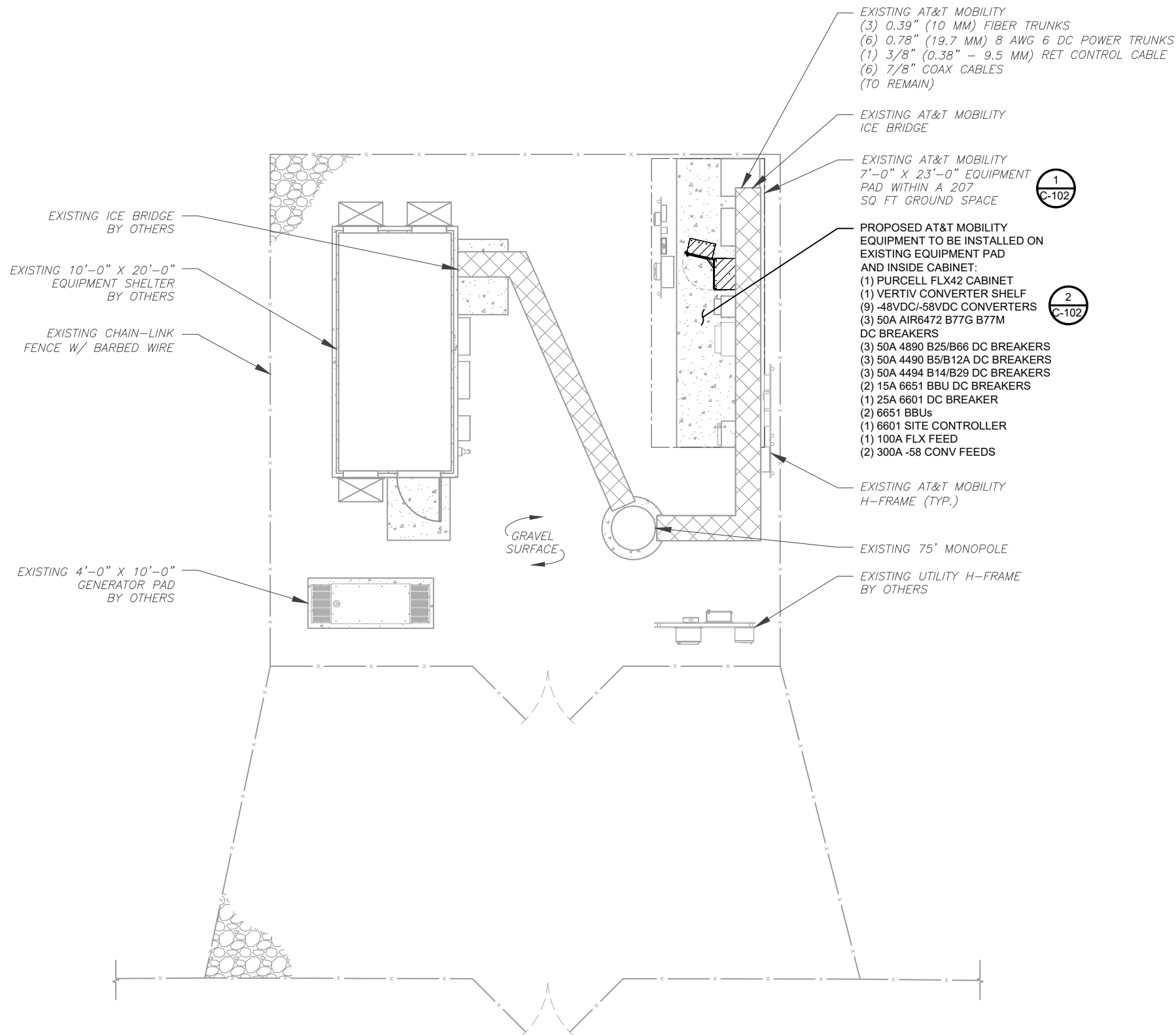
SHEET NUMBER:  
**C-001**

REVISION:  
**0**

**SITE PLAN NOTES:**

1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
2. ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.
3. THIS CONSTRUCTION DRAWING SET IS NOT INTENDED TO REPRESENT ANY ELECTRICAL DESIGN OTHER THAN THE GROUNDING SHOWN, OR TO BE USED TO OBTAIN AN ELECTRICAL PERMIT. AN ELECTRICAL PERMIT IS REQUIRED TO WIRE UP THE PROPOSED CABINETS. ANY ELECTRICAL UPGRADES WILL BE ENGINEERED AND PERMITTED IN A SEPARATE CONSTRUCTION DRAWING SET.

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



**1 DETAILED SITE PLAN**  
SCALE 1" = 10'  
0 10' 20'  
SCALE: 1"=10' (11X17)  
1"=5' (22X34)

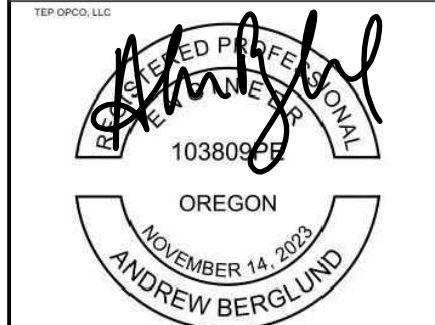


326 TRYON ROAD  
RALEIGH, NC 27603-3530  
OFFICE: (919) 661-6351  
www.tepgroup.net

TEP IS A FAMILY OF COMPANIES LICENSED TO PROVIDE DIFFERENT SERVICES IN DIFFERENT JURISDICTIONS. DEPENDING ON THE JURISDICTION, PROFESSIONAL ENGINEERING AND LAND SURVEYING SERVICES ARE PROVIDED BY TEP OPCO LLC, A DELAWARE LIMITED LIABILITY COMPANY, TEP ENGINEERING, LLC, A NORTH CAROLINA PROFESSIONAL LIMITED LIABILITY COMPANY, OR M&H ENGINEERING, LLC, A NEW YORK PROFESSIONAL LIMITED LIABILITY COMPANY. GENERAL CONTRACTOR SERVICES ARE PROVIDED BY TEP OPCO LLC, A DELAWARE LIMITED LIABILITY COMPANY. WE ACQUIRE THE REQUISITE LICENSES IN EACH STATE. ADDITIONAL INFORMATION CAN BE OBTAINED FROM THE COMPANY.

REV.	DESCRIPTION	BY	DATE
A	PRELIMINARY	ASB	12/18/24
B	100% CONSTRUCTION	ASB	01/31/25

ATC SITE NUMBER: 302459  
ATC SITE NAME: ELSMERE CO 1  
AT&T MOBILITY SITE NUMBER:  
**SICO004762**  
AT&T MOBILITY SITE NAME:  
**CONSTITUTION & HWY 24**  
SITE ADDRESS:  
2865 AKERS DR  
COLORADO SPRINGS, CO 80922-1520

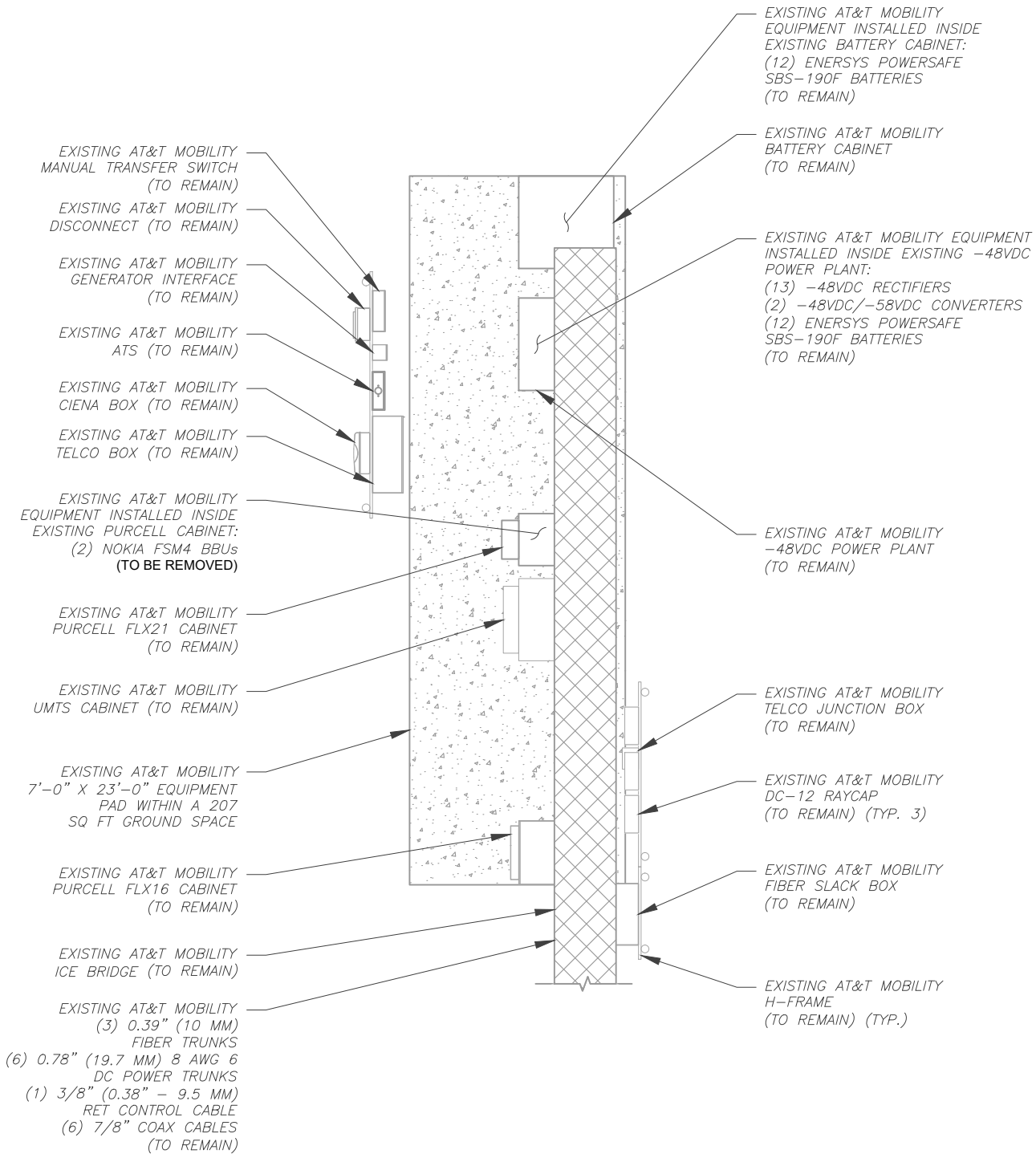


SEAL: EXPIRES: 12-31-2025 01/31/25

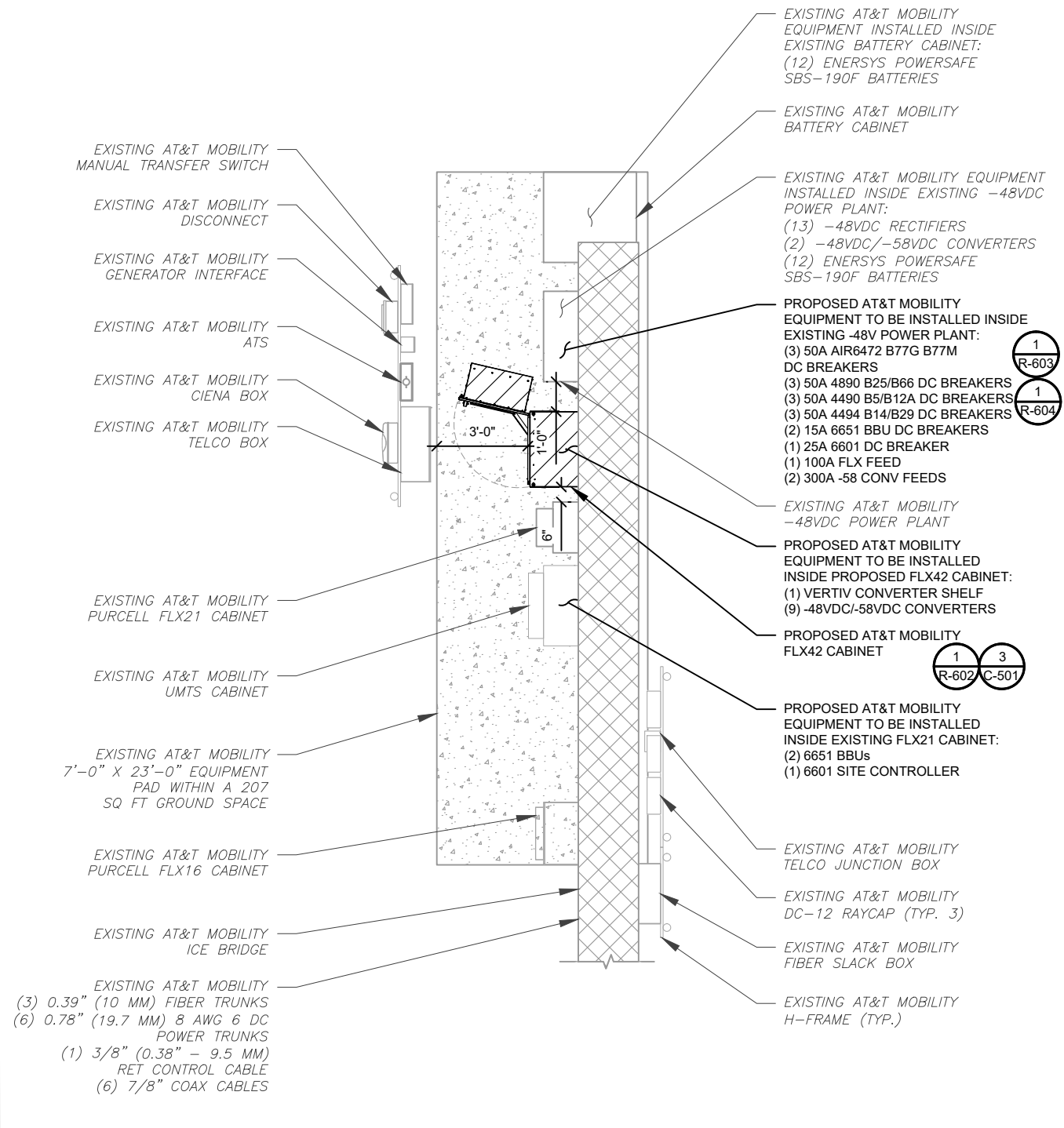
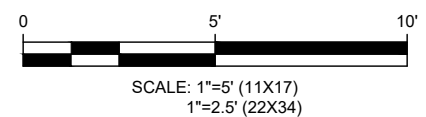


DATE DRAWN:	01/31/25
ATC JOB NO:	14885421
CUSTOMER NAME:	CONSTITUTION & HWY 24
CUSTOMER ID:	SICO004762

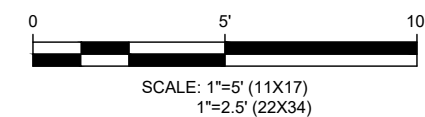
<b>DETAILED SITE PLAN</b>	
SHEET NUMBER:	REVISION:
<b>C-101</b>	<b>0</b>



1 EXISTING DETAILED EQUIPMENT LAYOUT SCALE: 1" = 5'



2 PROPOSED DETAILED EQUIPMENT LAYOUT SCALE: 1" = 5'



326 TRYON ROAD  
RALEIGH, NC 27603-3530  
OFFICE: (919) 661-6351  
www.tepgroup.net

TEP IS A FAMILY OF COMPANIES LICENSED TO PROVIDE DIFFERENT SERVICES IN DIFFERENT JURISDICTIONS. DEPENDING ON THE JURISDICTION, PROFESSIONAL ENGINEERING AND LAND SURVEYING SERVICES ARE PROVIDED BY TEP OPCO LLC, A DELAWARE LIMITED LIABILITY COMPANY, TEP ENGINEERING, LLC, A NORTH CAROLINA PROFESSIONAL LIMITED LIABILITY COMPANY, OR M&H ENGINEERING, LLC, A NEW YORK PROFESSIONAL LIMITED LIABILITY COMPANY. GENERAL CONTRACTOR SERVICES ARE PROVIDED BY TEP OPCO LLC, A DELAWARE LIMITED LIABILITY COMPANY. WE ACQUIRE THE REQUISITE LICENSES IN EACH STATE. ADDITIONAL INFORMATION CAN BE OBTAINED FROM THE COMPANY.

REV.	DESCRIPTION	BY	DATE
A	PRELIMINARY	ASB	12/18/24
B	100% CONSTRUCTION	ASB	01/31/25

ATC SITE NUMBER: 302459  
ATC SITE NAME: ELSMERE CO 1  
AT&T MOBILITY SITE NUMBER:  
SICO004762  
AT&T MOBILITY SITE NAME:  
CONSTITUTION & HWY 24  
SITE ADDRESS:  
2865 AKERS DR  
COLORADO SPRINGS, CO 80922-1520

TEP OPCO, LLC

REGISTERED PROFESSIONAL ENGINEER  
103809PE  
OREGON  
NOVEMBER 14, 2023  
ANDREW BERGLUND

SEAL: EXPIRES: 12-31-2025 01/31/25

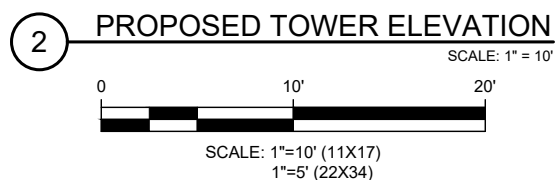
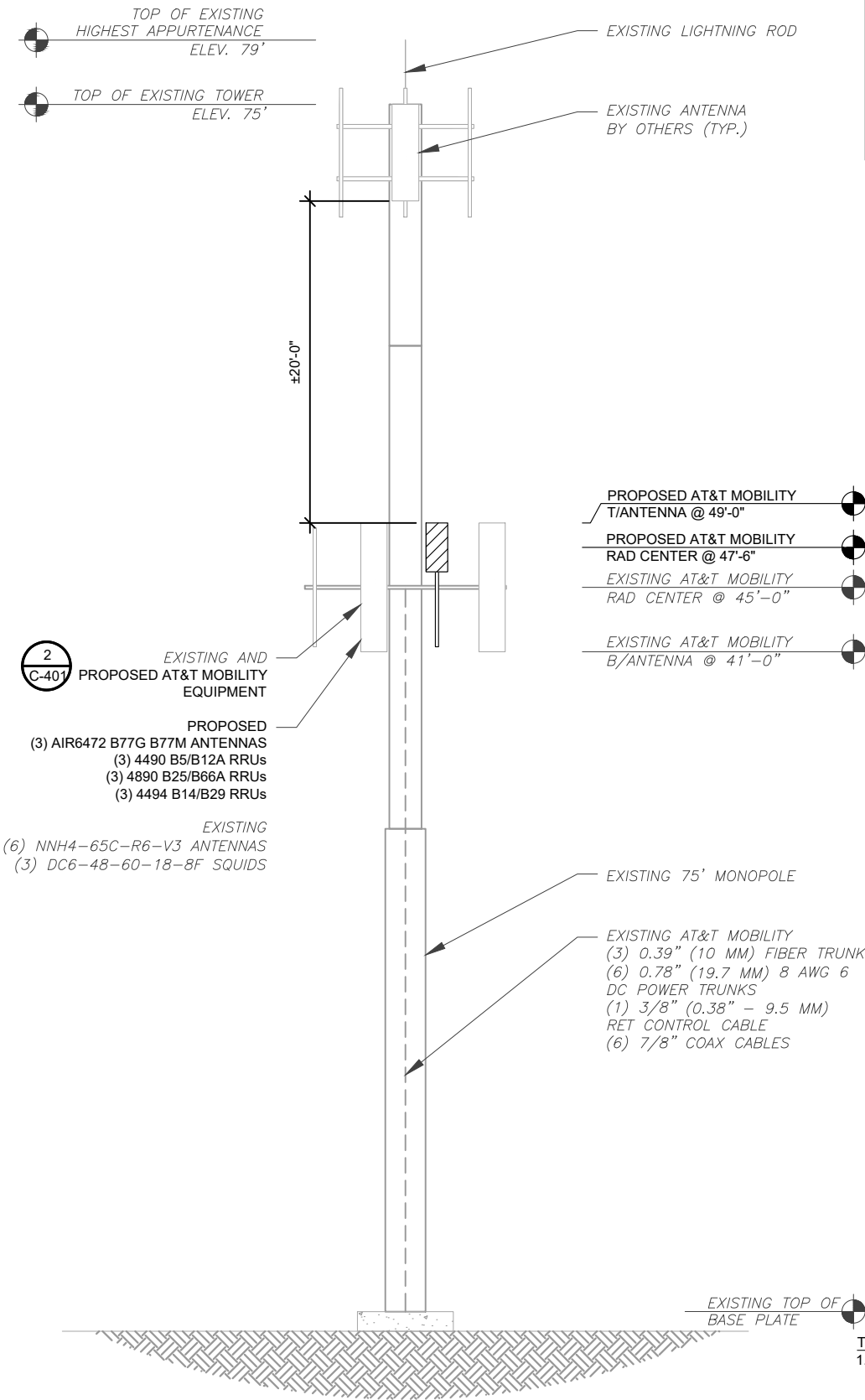
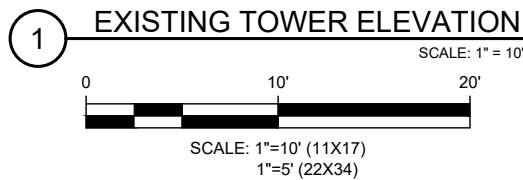
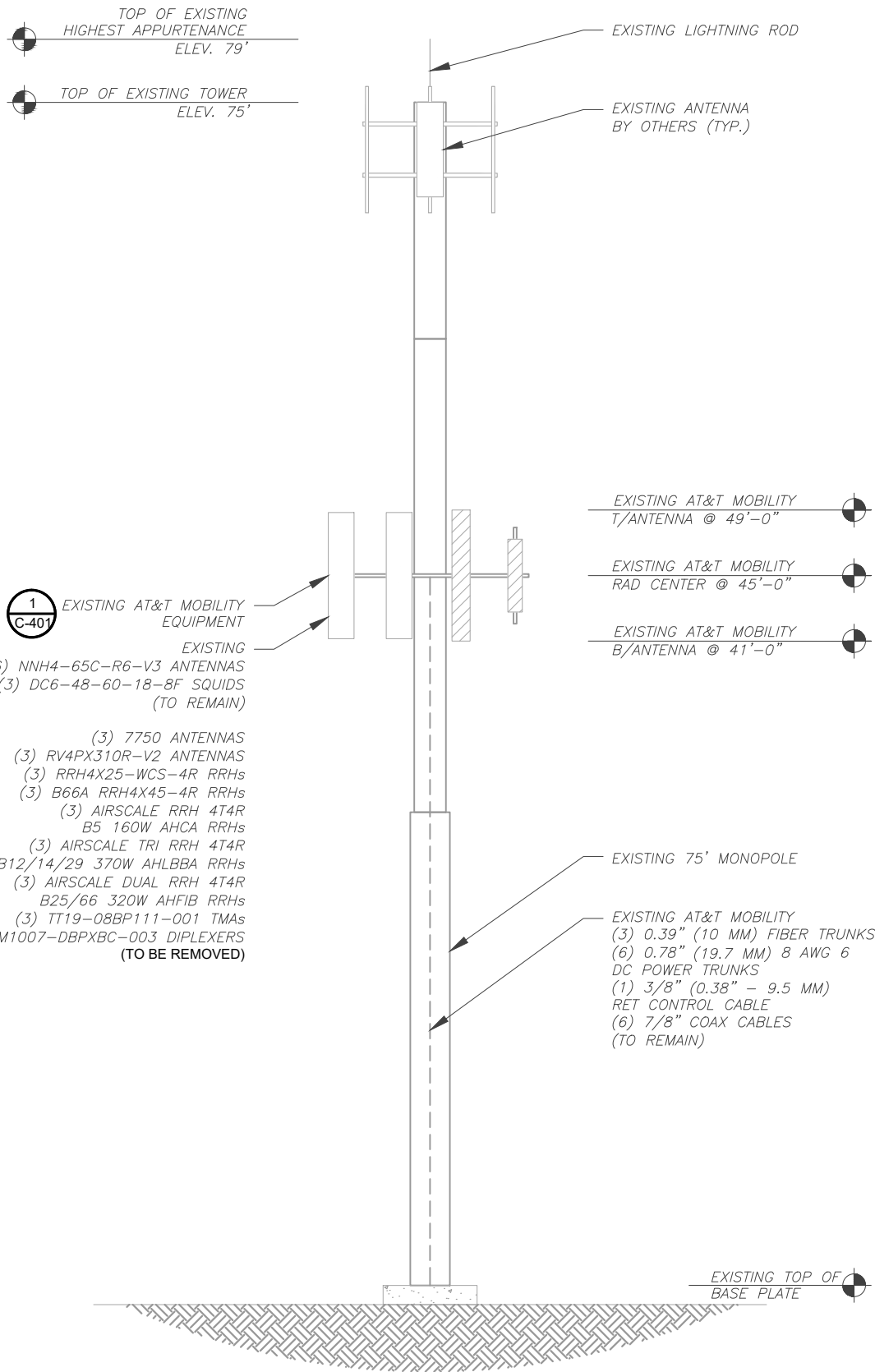
DATE DRAWN:	01/31/25
ATC JOB NO:	14885421
CUSTOMER NAME:	CONSTITUTION & HWY 24
CUSTOMER ID:	SICO004762

AT&T

DETAILED EQUIPMENT LAYOUT

SHEET NUMBER: C-102  
REVISION: 0

Copyright © 2025 ATC IP LLC. All Rights Reserved.



PER MOUNT ANALYSIS COMPLETED BY ENGINEERED TOWER SOLUTIONS, DATED DECEMBER 6, 2024, THE EXISTING MOUNT MUST BE MODIFIED TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.

- DETAILED SOW:**  
\*\*\*TOPSIDE\*\*\*
- REMOVE (3) 7750 ANTENNAS
  - REMOVE (3) RV4PX310R-V2 ANTENNAS
  - REMOVE (3) RRH4X25-WCS-4R RRHs
  - REMOVE (3) B66A RRH4X45-4R RRHs
  - REMOVE (3) AIRSCALE RRH 4T4R B5 160W AHCA RRHs
  - REMOVE (3) AIRSCALE TRI RRH 4T4R B12/14/29 370W AHLBBA RRHs
  - REMOVE (3) AIRSCALE DUAL RRH 4T4R B25/66 320W AHFIB RRHs
  - REMOVE (3) TT19-08BP111-001 TMAs
  - REMOVE (6) CM1007-DBPXC-003 DIPLEXERS
  - INSTALL (3) AIR6472 B77G B77M ANTENNAS
  - INSTALL (3) 4490 B5/B12A RRUs
  - INSTALL (3) 4890 B25/B66A RRUs
  - INSTALL (3) 4494 B14/B29 RRUs
  - RETAIN (3) NNH4-65C-R6-V3 ANTENNAS
  - RELOCATE (3) NNH4-65C-R6-V3 ANTENNAS
  - RETAIN (3) DC6-48-60-18-8F SQUIDS
  - RETAIN (6) 0.78" (19.7 MM) 8 AWG 6 DC POWER TRUNKS
  - RETAIN (3) 0.39" (10 MM) FIBER TRUNKS
  - RETAIN (6) 7/8" COAX CABLES
  - RETAIN (1) 3/8" (0.38" - 9.5 MM) RET CONTROL CABLE
  - TEST NEW LINES PER MARKET SPEC
  - LABEL NEW CABLES PER MARKET SPEC
  - GROUND NEW EQUIPMENT PER MARKET SPEC
  - \*\*\*BOTTOMSIDE\*\*\*
  - REMOVE ALL NOKIA BBU EQUIPMENTS
  - INSTALL (1) FLX42 CABINET
  - INSTALL (1) VERTIV CONVERTER SHELF
  - INSTALL (9) -48VDC/-58VDC CONVERTERS
  - INSTALL (3) 50A AIR6472 B77D B77M DC BREAKERS
  - INSTALL (3) 50A 4490 B5/B12A DC BREAKERS
  - INSTALL (3) 50A 4494 B14/B29 DC BREAKERS
  - INSTALL (2) 15A 6651 BBU DC BREAKERS
  - INSTALL (1) 25A 6601 DC BREAKER
  - INSTALL (2) 6651 BBU
  - INSTALL (1) 6601 SITE CONTROLLER
  - INSTALL (1) 100A FLX FEED
  - INSTALL (2) 300A-58 CONV FEEDS
  - TEST NEW LINES PER MARKET SPEC
  - LABEL NEW CABLES PER MARKET SPEC
  - GROUND NEW EQUIPMENT PER MARKET SPEC

- TOWER NOTES:**
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE PROJECT MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS.
  - WHERE APPLICABLE, ALL NEW ANTENNAS, EQUIPMENT, MOUNTS, CABLING, ETC. SHALL BE PAINTED/SOCKED TO MATCH EXISTING EQUIPMENT IN ACCORDANCE WITH FAA, JURISDICTION, AND/OR OTHER LOCAL REQUIREMENTS.
  - TOWER ELEVATION DEPICTION MAY NOT REFLECT ALL EQUIPMENT INCLUDED IN STRUCTURAL ANALYSIS. REFER TO STRUCTURAL ANALYSIS FOR FULL TOWER LOADING.



326 TRYON ROAD  
RALEIGH, NC 27603-3530  
OFFICE: (919) 661-6351  
www.tepgroup.net

TEP IS A FAMILY OF COMPANIES LICENSED TO PROVIDE DIFFERENT SERVICES IN DIFFERENT JURISDICTIONS. DEPENDING ON THE JURISDICTION, PROFESSIONAL ENGINEERING AND LAND SURVEYING SERVICES ARE PROVIDED BY TEP OPCO LLC, A DELAWARE LIMITED LIABILITY COMPANY, TEP ENGINEERING, LLC, A NORTH CAROLINA PROFESSIONAL LIMITED LIABILITY COMPANY, OR M&H ENGINEERING, LLC, A NEW YORK PROFESSIONAL LIMITED LIABILITY COMPANY. GENERAL CONTRACTOR SERVICES ARE PROVIDED BY TEP OPCO LLC, A DELAWARE LIMITED LIABILITY COMPANY. WE ACQUIRE THE REQUISITE LICENSES IN EACH STATE. ADDITIONAL INFORMATION CAN BE OBTAINED FROM THE COMPANY.

REV.	DESCRIPTION	BY	DATE
A	PRELIMINARY	ASB	12/18/24
B	100% CONSTRUCTION	ASB	01/31/25
C			
D			

ATC SITE NUMBER: 302459  
ATC SITE NAME: ELSMERE CO 1  
AT&T MOBILITY SITE NUMBER:  
**SIC0004762**  
AT&T MOBILITY SITE NAME:  
**CONSTITUTION & HWY 24**  
SITE ADDRESS:  
2865 AKERS DR  
COLORADO SPRINGS, CO 80922-1520



SEAL: EXPIRES: 12-31-2025 01/31/25



DATE DRAWN:	01/31/25
ATC JOB NO:	14885421
CUSTOMER NAME:	CONSTITUTION & HWY 24
CUSTOMER ID:	SIC0004762

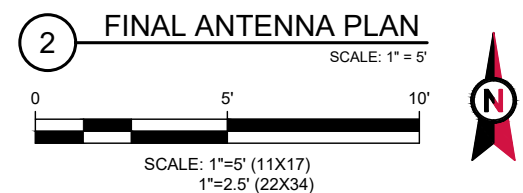
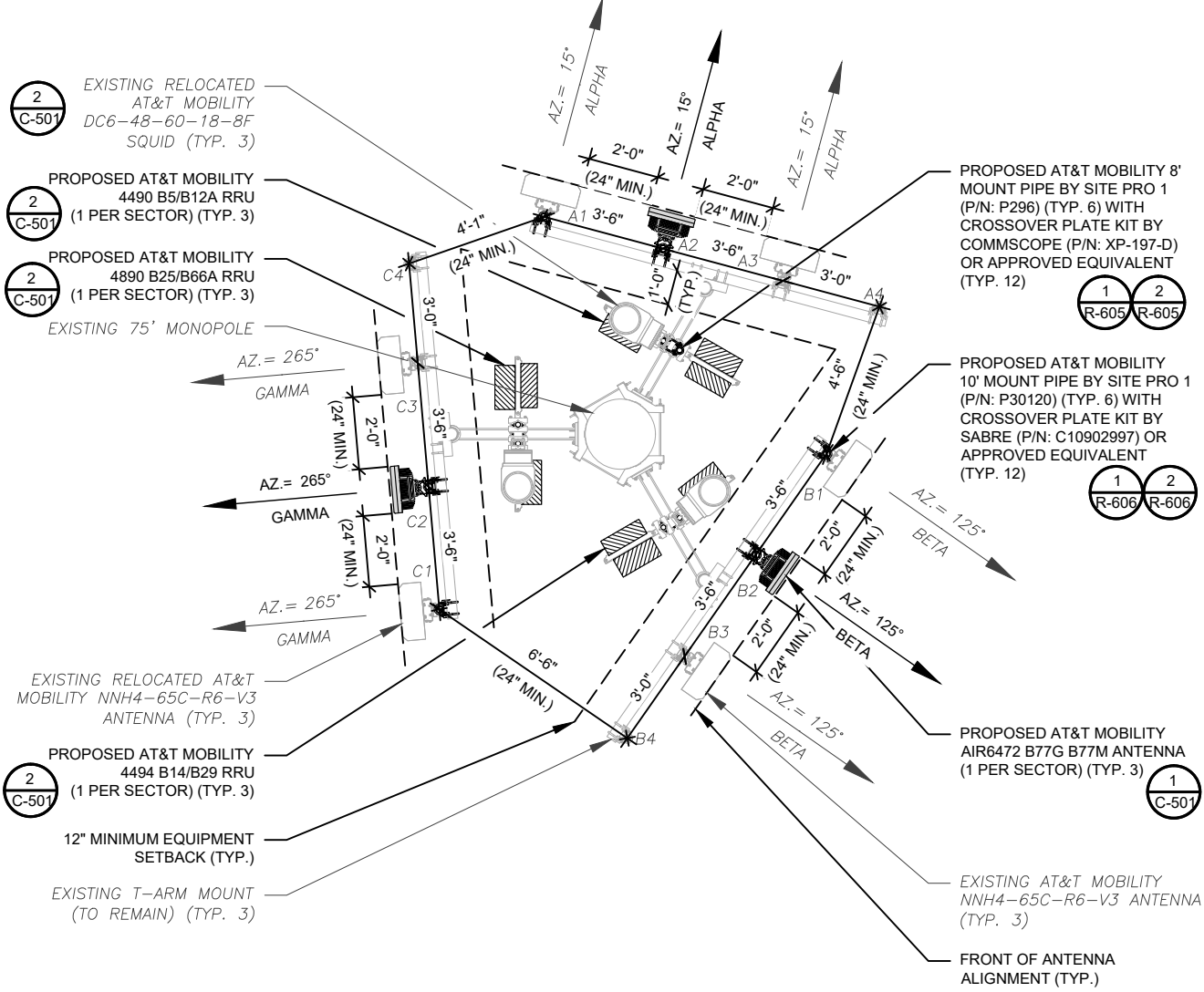
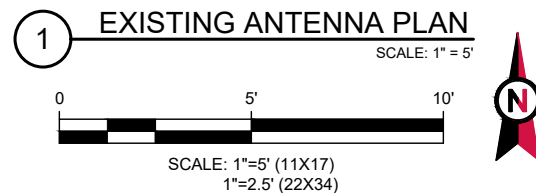
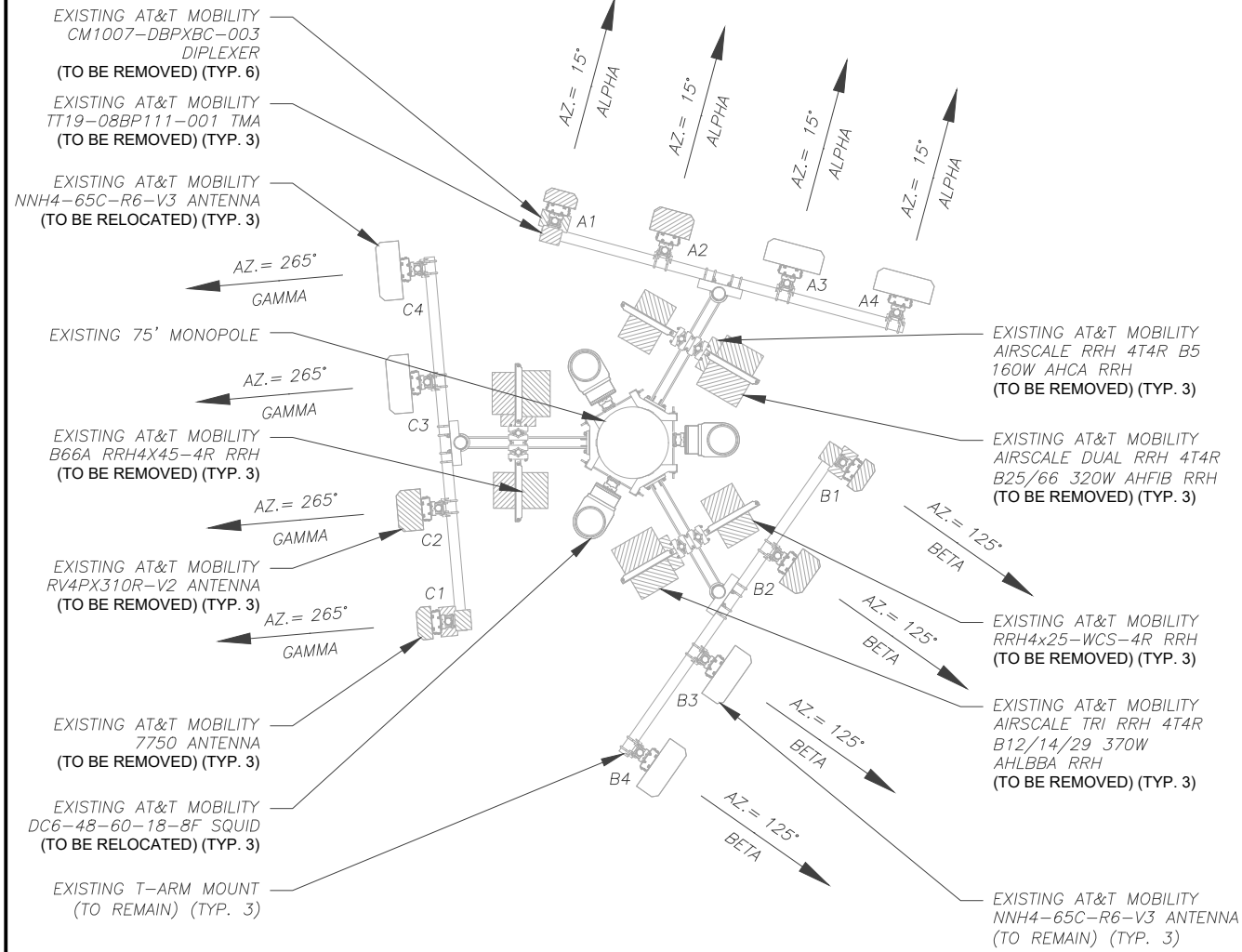
**TOWER ELEVATION**

SHEET NUMBER: **C-201** REVISION: **0**

EXISTING CONFIGURATIONS ARE BASED ON RFDS. CONTRACTOR TO VERIFY EXISTING CONDITIONS.

**NOTE:**  
EXISTING MOUNT TO BE ROTATED TO MATCH ANTENNA AZIMUTHS AS NEEDED

PER MOUNT ANALYSIS COMPLETED BY ENGINEERED TOWER SOLUTIONS, DATED DECEMBER 6, 2024, THE EXISTING MOUNT **MUST BE MODIFIED** TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.



PROPOSED RRUs MUST BE INSTALLED A MINIMUM OF 12" AWAY FROM HORIZONTAL MOUNTING PIPE

PLANS PREPARED BY:

326 TRYON ROAD  
RALEIGH, NC 27603-3530  
OFFICE: (919) 661-6351  
www.tepgroup.net

TEP IS A FAMILY OF COMPANIES LICENSED TO PROVIDE DIFFERENT SERVICES IN DIFFERENT JURISDICTIONS. DEPENDING ON THE JURISDICTION, PROFESSIONAL ENGINEERING AND LAND SURVEYING SERVICES ARE PROVIDED BY TEP OPCO LLC, A DELAWARE LIMITED LIABILITY COMPANY, TEP ENGINEERING, LLC, A NORTH CAROLINA PROFESSIONAL LIMITED LIABILITY COMPANY, OR M&H ENGINEERING, LLC, A NEW YORK PROFESSIONAL LIMITED LIABILITY COMPANY. GENERAL CONTRACTOR SERVICES ARE PROVIDED BY TEP OPCO LLC, A DELAWARE LIMITED LIABILITY COMPANY. WE ACQUIRE THE REQUISITE LICENSES IN EACH STATE. ADDITIONAL INFORMATION CAN BE OBTAINED FROM THE COMPANY.

REV.	DESCRIPTION	BY	DATE
A	PRELIMINARY	ASB	12/18/24
0	100% CONSTRUCTION	ASB	01/31/25

ATC SITE NUMBER: 302459  
ATC SITE NAME: ELSMERE CO 1  
AT&T MOBILITY SITE NUMBER:  
SICO004762  
AT&T MOBILITY SITE NAME:  
CONSTITUTION & HWY 24  
SITE ADDRESS:  
2865 AKERS DR  
COLORADO SPRINGS, CO 80922-1520

TEP OPCO, LLC

SEAL: EXPIRES: 12-31-2025 01/31/25

DATE DRAWN:	01/31/25
ATC JOB NO:	14885421
CUSTOMER NAME:	CONSTITUTION & HWY 24
CUSTOMER ID:	SICO004762

ANTENNA INSTALLTION

SHEET NUMBER: **C-401** REVISION: **0**

Copyright © 2025 ATC IP LLC. All Rights Reserved.



PLANS PREPARED BY:



326 TRYON ROAD  
RALEIGH, NC 27603-3530  
OFFICE: (919) 661-6351  
www.tepgroup.net

TEP IS A FAMILY OF COMPANIES LICENSED TO PROVIDE DIFFERENT SERVICES IN DIFFERENT JURISDICTIONS. DEPENDING ON THE JURISDICTION, PROFESSIONAL ENGINEERING AND LAND SURVEYING SERVICES ARE PROVIDED BY TEP OPO LLC, A DELAWARE LIMITED LIABILITY COMPANY, TEP ENGINEERING, LLC, A NORTH CAROLINA PROFESSIONAL LIMITED LIABILITY COMPANY, OR M&H ENGINEERING, LLC, A NEW YORK PROFESSIONAL LIMITED LIABILITY COMPANY. GENERAL CONTRACTOR SERVICES ARE PROVIDED BY TEP OPO LLC, A DELAWARE LIMITED LIABILITY COMPANY. WE ACQUIRE THE REQUISITE LICENSES IN EACH STATE. ADDITIONAL INFORMATION CAN BE OBTAINED FROM THE COMPANY.

REV.	DESCRIPTION	BY	DATE
A	PRELIMINARY	ASB	12/18/24
O	100% CONSTRUCTION	ASB	01/31/25

ATC SITE NUMBER: 302459

ATC SITE NAME: ELSMERE CO 1

AT&T MOBILITY SITE NUMBER:

SICO004762

AT&T MOBILITY SITE NAME:

CONSTITUTION & HWY 24

SITE ADDRESS:

2865 AKERS DR

COLORADO SPRINGS, CO 80922-1520



SEAL: EXPIRES: 12-31-2025 01/31/25



DATE DRAWN:	01/31/25
ATC JOB NO:	14885421
CUSTOMER NAME:	CONSTITUTION & HWY 24
CUSTOMER ID:	SICO004762

### ANTENNA SCHEDULE

SHEET NUMBER: REVISION:

C-402 0

EXISTING ANTENNA SCHEDULE								
LOCATION			ANTENNA SUMMARY			NON ANTENNA SUMMARY		
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	45'	15°	A1	7750	UMTS 850/UMTS 1900	RMV	(1) TT19-08BP111-001 (2) CM1007-DBPXBC-003	RMV RMV
			A2	RV4PX310R-V2	LTE WCS/LTE AWS	RMV	(1) B66A RRH4X45-4R (1) RRH4X25-WCS-4R	RMV RMV
			A3	NNH4-65C-R6-V3	LTE 850/5G 850	RMN	(1) AIRSCALE RRH 4T4R B5 160W AHCA	RMV RMV
			A4	NNH4-65C-R6-V3	LTE 700/LTE 1900/ LTE 2100	REL	(1) AIRSCALE TRI RRH 4T4R B12/14/29 320W AHLBBA (1) AIRSCALE DUAL RRH 4T4R B25/66 320W AHFIB	RMV RMV
BETA	45'	125°	B1	7750	UMTS 850/UMTS 1900	RMV	(1) TT19-08BP111-001 (2) CM1007-DBPXBC-003	RMV RMV
			B2	RV4PX310R-V2	LTE WCS/LTE AWS	RMV	(1) B66A RRH4X45-4R (1) RRH4X25-WCS-4R	RMV RMV
			B3	NNH4-65C-R6-V3	LTE 850/5G 850	RMN	(1) AIRSCALE RRH 4T4R B5 160W AHCA	RMV RMV
			B4	NNH4-65C-R6-V3	LTE 700/LTE 1900/ LTE 2100	REL	(1) AIRSCALE TRI RRH 4T4R B12/14/29 320W AHLBBA (1) AIRSCALE DUAL RRH 4T4R B25/66 320W AHFIB	RMV RMV
GAMMA	45'	265°	C1	7750	UMTS 850/UMTS 1900	RMV	(1) TT19-08BP111-001 (2) CM1007-DBPXBC-003	RMV RMV
			C2	RV4PX310R-V2	LTE WCS/LTE AWS	RMV	(1) B66A RRH4X45-4R (1) RRH4X25-WCS-4R	RMV RMV
			C3	NNH4-65C-R6-V3	LTE 850/5G 850	RMN	(1) AIRSCALE RRH 4T4R B5 160W AHCA	RMV RMV
			C4	NNH4-65C-R6-V3	LTE 700/LTE 1900/ LTE 2100	REL	(1) AIRSCALE TRI RRH 4T4R B12/14/29 320W AHLBBA (1) AIRSCALE DUAL RRH 4T4R B25/66 320W AHFIB	RMV RMV

**NOTES**

- GC TO VERIFY THE FINAL RFDS MATCHES THE FINAL CONSTRUCTION DRAWINGS. GC TO NOTIFY ATC PM OF ANY DISCREPANCY PRIOR TO INSTALLING THE EQUIPMENT.
- GC TO CAP ALL UNUSED PORTS.
- CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.
- THE ANTENNA ORIENTATION PLAN IS A SCHEMATIC. ATC DID NOT CONFIRM EXISTING SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO, ANTENNA AZIMUTHS, MOUNT CONFIGURATIONS AND TOWER ORIENTATION. SCALES SHOWN ARE FOR REFERENCE ONLY AND EXISTING DIMENSIONS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO INSTALLATION AND NOTIFY ATC OF ANY DISCREPANCIES.
- CONTRACTOR TO ENSURE PROPER SEPARATION IN ACCORDANCE WITH AT&T'S FIRSTNET REQUIREMENTS.

**STATUS ABBREVIATIONS**

RMV: TO BE REMOVED  
RMN: TO REMAIN  
REL: TO BE RELOCATED  
ADD: TO BE ADDED

**CABLE LENGTHS FOR JUMPERS**

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

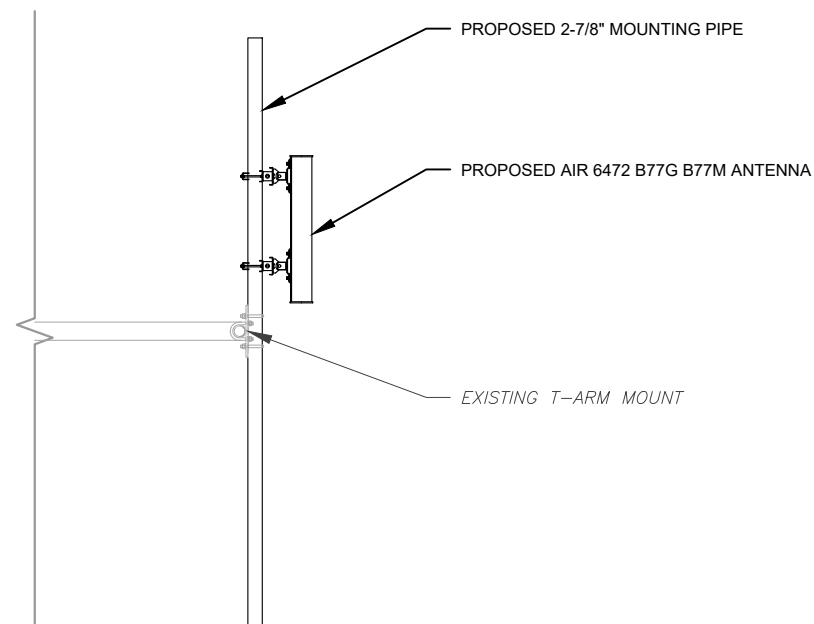
FINAL ANTENNA SCHEDULE									
LOCATION			ANTENNA SUMMARY				NON ANTENNA SUMMARY		
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	45'-0"	15°	A1	NNH4-65C-R6-V3	LTE 700/LTE 1900/ LTE 2100	0°	RMN	(1) 4490 B5/B12A	ADD
			A2	AIR6472 B77G B77M	5G CBAND/5G DOD	0°	ADD	-	-
			A3	NNH4-65C-R6-V3	LTE 850/5G 850	0°	RMN	(1) 4890 B25/B66A (1) 4494 B14/B29	ADD ADD
			A4	-	-	-	-	-	-
BETA	45'-0"	125°	B1	NNH4-65C-R6-V3	LTE 700/LTE 1900/ LTE 2100	0°	RMN	(1) 4490 B5/B12A	ADD
			B2	AIR6472 B77G B77M	5G CBAND/5G DOD	0°	ADD	-	-
			B3	NNH4-65C-R6-V3	LTE 850/5G 850	0°	RMN	(1) 4890 B25/B66A (1) 4494 B14/B29	ADD ADD
GAMMA	45'-0"	265°	C1	NNH4-65C-R6-V3	LTE 700/LTE 1900/ LTE 2100	0°	RMN	(1) 4490 B5/B12A	ADD
			C2	AIR6472 B77G B77M	5G CBAND/5G DOD	0°	ADD	-	-
			C3	NNH4-65C-R6-V3	LTE 850/5G 850	0°	RMN	(1) 4890 B25/B66A (1) 4494 B14/B29	ADD ADD
			C4	-	-	-	-	-	-

EXISTING FIBER DISTRIBUTION/SQUID		EXISTING CABLING SUMMARY			
MODEL NUMBER	STATUS	COAX	DC/RET	FIBER	STATUS
(3) DC6-48-60-18-8F	REL	(6) 7/8"	(6) 0.78" (19.7MM) 8 AWG 6	(3) 0.39" (10MM) TRUNK	RMN
-	-	-	(1) 3/8" (0.38" - 9.5 MM) RET	-	RMN

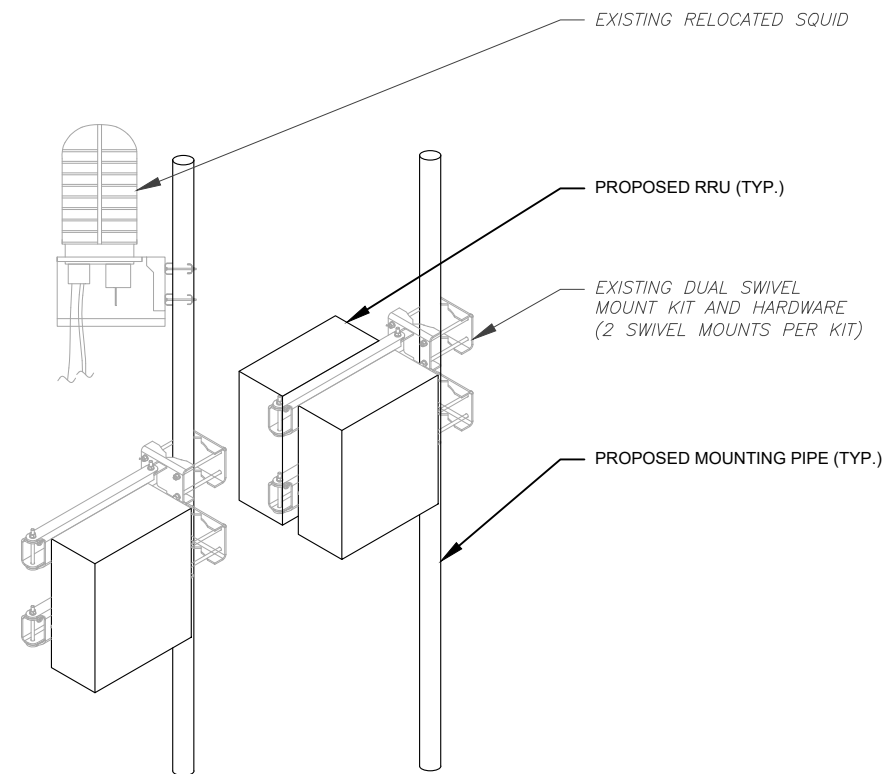
### 1 EQUIPMENT SCHEDULES

FINAL FIBER DISTRIBUTION/SQUID		FINAL CABLING SUMMARY			
MODEL NUMBER	STATUS	COAX	DC/RET	FIBER	STATUS
(3) DC6-48-60-18-8F	RMN	(6) 7/8"	(6) 0.78" (19.7MM) 8 AWG 6	(3) 0.39" (10MM) TRUNK	RMN
-	-	-	(1) 3/8" (0.38" - 9.5 MM) RET	-	RMN

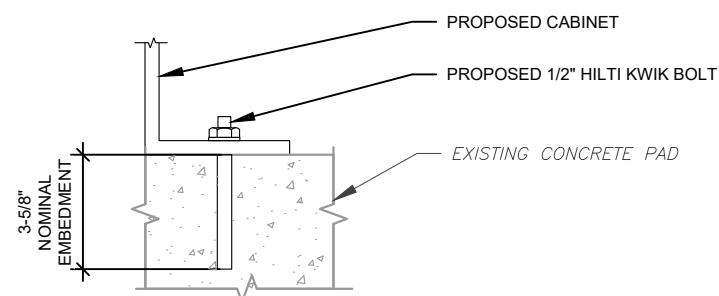




1 PROPOSED 5G ANTENNA MOUNTING DETAIL  
SCALE: N.T.S.



2 PROPOSED RRU & SQUID MOUNTING DETAIL  
SCALE: N.T.S.



NOTE:

INSTALL HILTI KWIK BOLT ANCHORS STRICTLY PER INSTALLATION INSTRUCTIONS INCLUDED WITH PRODUCT OR FOUND ONLINE AT WWW.US.HILTI.COM. PROPER INSTALLATION IS CRITICAL FOR FULL PERFORMANCE.

3 PROPOSED CABINET ATTACHMENT DETAIL  
SCALE: N.T.S.



PLANS PREPARED BY:



326 TRYON ROAD  
RALEIGH, NC 27603-3530  
OFFICE: (919) 661-6351  
www.tepgroup.net

TEP IS A FAMILY OF COMPANIES LICENSED TO PROVIDE DIFFERENT SERVICES IN DIFFERENT JURISDICTIONS. DEPENDING ON THE JURISDICTION, PROFESSIONAL ENGINEERING AND LAND SURVEYING SERVICES ARE PROVIDED BY TEP OP&CO LLC, A DELAWARE LIMITED LIABILITY COMPANY, TEP ENGINEERING, LLC, A NORTH CAROLINA PROFESSIONAL LIMITED LIABILITY COMPANY, OR M&H ENGINEERING, LLC, A NEW YORK PROFESSIONAL LIMITED LIABILITY COMPANY. GENERAL CONTRACTOR SERVICES ARE PROVIDED BY TEP OP&CO LLC, A DELAWARE LIMITED LIABILITY COMPANY. WE ACQUIRE THE REQUISITE LICENSES IN EACH STATE. ADDITIONAL INFORMATION CAN BE OBTAINED FROM THE COMPANY.

REV.	DESCRIPTION	BY	DATE
A	PRELIMINARY	ASB	12/18/24
0	100% CONSTRUCTION	ASB	01/31/25

ATC SITE NUMBER: 302459

ATC SITE NAME: ELSMERE CO 1

AT&T MOBILITY SITE NUMBER:

SICO004762

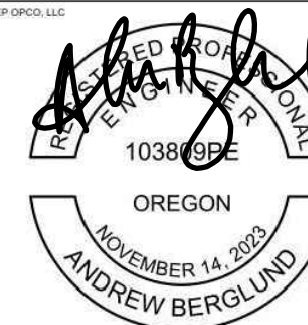
AT&T MOBILITY SITE NAME:

CONSTITUTION & HWY 24

SITE ADDRESS:

2865 AKERS DR  
COLORADO SPRINGS, CO 80922-1520

TEP OP&CO, LLC



SEAL: EXPIRES: 12-31-2025 01/31/25



DATE DRAWN:	01/31/25
ATC JOB NO:	14885421
CUSTOMER NAME:	CONSTITUTION & HWY 24
CUSTOMER ID:	SICO004762

CONSTRUCTION  
DETAILS

SHEET NUMBER:	REVISION:
C-501	0

AC POWER MAIN PANEL A (EXISTING)											
120/240 VOLTS, 1-PHASE, 3-WIRE, 200A											
MAIN BREAKER RATING (A) :				200		SYSTEM VOLTAGE (V) :				240	
DESCRIPTION	VA	c/nc	BKR	POSN	L1	L2	POSN	BKR	c/nc	VA	DESCRIPTION
RECTIFIER 1	700	c	30/2	1	880		2	20/1	nc	180	GFI
	700	c		3		1000	4	20/1	nc	300	LIGHTS
RECTIFIER 2	700	c	30/2	5	1420		6	20/1	nc	720	TELCO OUTLET
	700	c		7		1700	8	20/1	nc	1000	POWER PLANT HEATER
SURGE PROTECTOR	0	c	60/2	9	700		10	30/2	c	700	RECTIFIER 3
	0	c		11		700	12		c	700	
UMTS / OFF	0	nc	100/2	13	180		14	100/2	c	180	SUB PAN
	0	nc		15		1920	16		c	1920	
SIENNA	1920	c	20/1	17	2620		18	30/2	c	700	RECTIFIER 4
POWER PLANT GFI	180	nc	20/1	19		880	20		c	700	
PHASE TOTALS (VA):					5800	6200					
PHASE TOTALS (A):					48	52					
CURRENT PER PHASE W/ 125% Continuous Loads (A):					59	62	Amperes/phase cannot exceed main breaker rating				
PANEL TOTAL (VA):					12000		Legend: c = continuous, nc = non-continuous				
PANEL TOTAL W/ 125% Continuous Loads (VA):					14405						

1 EXISTING AC PANEL A  
SCALE: N.T.S.

AC POWER PANEL B (EXISTING)											
120/240 VOLTS, 1-PHASE, 3-WIRE, 200A											
MAIN BREAKER RATING (A) :				200		SYSTEM VOLTAGE (V) :				240	
DESCRIPTION	VA	c/nc	BKR	POSN	L1	L2	POSN	BKR	c/nc	VA	DESCRIPTION
RECTIFIER 5	700	c	30/2	1	700		2	30/2	nc	0	UNLABELED / OFF
	700	c		3		700	4		nc	0	
RECTIFIER 6	700	c	30/2	5	700		6	30/2	nc	0	UNLABELED / OFF
	700	c		7		700	8		nc	0	
RECTIFIER 7	350	c	30/2	9	1350		10	20/1	nc	1000	BATTERY CAB HEATER 1
	350	c		11		1350	12	20/1	nc	1000	BATTERY CAB HEATER 2
BATTERY CAB GFI	180	nc	20/1	13	180		14				BLANK
BLANK				15		0	16				BLANK
BLANK				17	0		18				BLANK
BLANK				19		0	20				BLANK
PHASE TOTALS (VA):					2930	2750					
PHASE TOTALS (A):					24	23					
CURRENT PER PHASE W/ 125% Continuous Loads (A):					28	27	Amperes/phase cannot exceed main breaker rating				
PANEL TOTAL (VA):					5680		Legend: c = continuous, nc = non-continuous				
PANEL TOTAL W/ 125% Continuous Loads (VA):					6555						

2 EXISTING AC PANEL B  
SCALE: N.T.S.

AC POWER MAIN PANEL A (PROPOSED)											
120/240 VOLTS, 1-PHASE, 3-WIRE, 200A											
MAIN BREAKER RATING (A) :				200		SYSTEM VOLTAGE (V) :				240	
DESCRIPTION	VA	c/nc	BKR	POSN	L1	L2	POSN	BKR	c/nc	VA	DESCRIPTION
RECTIFIER 1	1220	c	30/2	1	1400		2	20/1	nc	180	GFI
	1220	c		3		1520	4	20/1	nc	300	LIGHTS
RECTIFIER 2	1220	c	30/2	5	1940		6	20/1	nc	720	TELCO OUTLET
	1220	c		7		2220	8	20/1	nc	1000	POWER PLANT HEATER
SURGE PROTECTOR	0	c	60/2	9	1220		10	30/2	c	1220	RECTIFIER 3
	0	c		11		1220	12		c	1220	
UMTS / OFF	0	nc	100/2	13	180		14	100/2	c	180	SUB PAN
	0	nc		15		1920	16		c	1920	
SIENNA	1920	c	20/1	17	3140		18	30/2	c	1220	RECTIFIER 4
POWER PLANT GFI	180	nc	20/1	19		1400	20		c	1220	
PHASE TOTALS (VA):					7880	8280					
PHASE TOTALS (A):					66	69					
CURRENT PER PHASE W/ 125% Continuous Loads (A):					80	83	Amperes/phase cannot exceed main breaker rating				
PANEL TOTAL (VA):					16160		Legend: c = continuous, nc = non-continuous				
PANEL TOTAL W/ 125% Continuous Loads (VA):					19605						

3 PROPOSED AC PANEL A  
SCALE: N.T.S.

AC POWER PANEL B (PROPOSED)											
120/240 VOLTS, 1-PHASE, 3-WIRE, 200A											
MAIN BREAKER RATING (A) :				200		SYSTEM VOLTAGE (V) :				240	
DESCRIPTION	VA	c/nc	BKR	POSN	L1	L2	POSN	BKR	c/nc	VA	DESCRIPTION
RECTIFIER 5	1220	c	30/2	1	1220		2	30/2	nc	0	UNLABELED / OFF
	1220	c		3		1220	4		nc	0	
RECTIFIER 6	1220	c	30/2	5	1220		6	30/2	nc	0	UNLABELED / OFF
	1220	c		7		1220	8		nc	0	
RECTIFIER 7	590	c	30/2	9	1590		10	20/1	nc	1000	BATTERY CAB HEATER 1
	590	c		11		1590	12	20/1	nc	1000	BATTERY CAB HEATER 2
BATTERY CAB GFI	180	nc	20/1	13	180		14				BLANK
BLANK				15		0	16				BLANK
BLANK				17	0		18				BLANK
BLANK				19		0	20				BLANK
PHASE TOTALS (VA):					4210	4030					
PHASE TOTALS (A):					35	34					
CURRENT PER PHASE W/ 125% Continuous Loads (A):					41	40	Amperes/phase cannot exceed main breaker rating				
PANEL TOTAL (VA):					8240		Legend: c = continuous, nc = non-continuous				
PANEL TOTAL W/ 125% Continuous Loads (VA):					9755						

4 PROPOSED AC PANEL B  
SCALE: N.T.S.



326 TRYON ROAD  
RALEIGH, NC 27603-3530  
OFFICE: (919) 661-6351  
www.tepgroup.net

TEP IS A FAMILY OF COMPANIES LICENSED TO PROVIDE DIFFERENT SERVICES IN DIFFERENT JURISDICTIONS. DEPENDING ON THE JURISDICTION, PROFESSIONAL ENGINEERING AND LAND SURVEYING SERVICES ARE PROVIDED BY TEP OPCO LLC, A DELAWARE LIMITED LIABILITY COMPANY, TEP ENGINEERING, LLC, A NORTH CAROLINA PROFESSIONAL LIMITED LIABILITY COMPANY, OR M&H ENGINEERING, LLC, A NEW YORK PROFESSIONAL LIMITED LIABILITY COMPANY. GENERAL CONTRACTOR SERVICES ARE PROVIDED BY TEP OPCO LLC, A DELAWARE LIMITED LIABILITY COMPANY. WE ACQUIRE THE REQUISITE LICENSES IN EACH STATE. ADDITIONAL INFORMATION CAN BE OBTAINED FROM THE COMPANY.

REV.	DESCRIPTION	BY	DATE
A	PRELIMINARY	ASB	12/18/24
B	100% CONSTRUCTION	ASB	01/31/25
C			
D			
E			

ATC SITE NUMBER: 302459  
ATC SITE NAME: ELSMERE CO 1  
AT&T MOBILITY SITE NUMBER:  
SICO004762  
AT&T MOBILITY SITE NAME:  
CONSTITUTION & HWY 24  
SITE ADDRESS:  
2865 AKERS DR  
COLORADO SPRINGS, CO 80907-1520



SEAL: 01/31/25



DATE DRAWN:	01/31/25
ATC JOB NO:	14885421
CUSTOMER NAME:	CONSTITUTION & HWY 24
CUSTOMER ID:	SICO004762

ELECTRICAL PANELS	
SHEET NUMBER: <b>E-101</b>	REVISION: <b>0</b>

Copyright © 2025 ATC IP LLC. All Rights Reserved.

AC POWER SUB-PANEL (EXISTING)													
120/240 VOLTS, 1-PHASE, 3-WIRE, 100A													
MAIN BREAKER RATING (A) :					100		SYSTEM VOLTAGE (V) :					240	
DESCRIPTION	VA	c/nc	BKR	POSN	L1	L2	POSN	BKR	c/nc	VA	DESCRIPTION		
TOWER LIGHTS CONTROLLER / OFF	0	nc	20/1	1	180		2	20/1	nc	180	GFI OUTLET		
BLANK				3		1920	4	20/1	c	1920	OPTO 22		
BLANK				5	0		6				BLANK		
BLANK				7		0	8				BLANK		
BLANK				9	0		10				BLANK		
BLANK				11		0	12				BLANK		
<b>PHASE TOTALS (VA):</b>					<b>180</b>	<b>1920</b>							
<b>PHASE TOTALS (A):</b>					2	16							
CURRENT PER PHASE W/ 125% Continuous Loads (A):					2	20	Amperes/phase cannot exceed main breaker rating						
PANEL TOTAL (VA):					2100		Legend: c = continuous, nc = non-continuous						
PANEL TOTAL W/ 125% Continuous Loads (VA):					2580								

① EXISTING SUB-AC PANEL  
SCALE: N.T.S.

AC POWER SUB-PANEL (PROPOSED)													
120/240 VOLTS, 1-PHASE, 3-WIRE, 200A													
MAIN BREAKER RATING (A) :					200		SYSTEM VOLTAGE (V) :					240	
DESCRIPTION	VA	c/nc	BKR	POSN	L1	L2	POSN	BKR	c/nc	VA	DESCRIPTION		
TOWER LIGHTS CONTROLLER / OFF	0	nc	20/1	1	180		2	20/1	nc	180	GFI OUTLET		
BLANK				3		1920	4	20/1	c	1920	OPTO 22		
BLANK				5	0		6				BLANK		
BLANK				7		0	8				BLANK		
BLANK				9	0		10				BLANK		
BLANK				11		0	12				BLANK		
BLANK				47		0	48				BLANK		
<b>PHASE TOTALS (VA):</b>					<b>180</b>	<b>1920</b>							
<b>PHASE TOTALS (A):</b>					2	16							
CURRENT PER PHASE W/ 125% Continuous Loads (A):					2	20	Amperes/phase cannot exceed main breaker rating						
PANEL TOTAL (VA):					2100		Legend: c = continuous, nc = non-continuous						
PANEL TOTAL W/ 125% Continuous Loads (VA):					2580								

② PROPOSED SUB-AC PANEL  
SCALE: N.T.S.



PLANS PREPARED BY:



326 TRYON ROAD  
RALEIGH, NC 27603-3530  
OFFICE: (919) 661-6351  
www.tepgroup.net

TEP IS A FAMILY OF COMPANIES LICENSED TO PROVIDE DIFFERENT SERVICES IN DIFFERENT JURISDICTIONS. DEPENDING ON THE JURISDICTION, PROFESSIONAL ENGINEERING AND LAND SURVEYING SERVICES ARE PROVIDED BY TEP OPO LLC, A DELAWARE LIMITED LIABILITY COMPANY, TEP ENGINEERING, LLC, A NORTH CAROLINA PROFESSIONAL LIMITED LIABILITY COMPANY, OR M&H ENGINEERING, LLC, A NEW YORK PROFESSIONAL LIMITED LIABILITY COMPANY. GENERAL CONTRACTOR SERVICES ARE PROVIDED BY TEP OPO LLC, A DELAWARE LIMITED LIABILITY COMPANY. WE ACQUIRE THE REQUISITE LICENSES IN EACH STATE. ADDITIONAL INFORMATION CAN BE OBTAINED FROM THE COMPANY.

REV.	DESCRIPTION	BY	DATE
△	PRELIMINARY	ASB	12/18/24
△	100% CONSTRUCTION	ASB	01/31/25
△			
△			
△			

ATC SITE NUMBER: 302459

ATC SITE NAME: ELSMERE CO 1

AT&T MOBILITY SITE NUMBER:

SICO004762

AT&T MOBILITY SITE NAME:

CONSTITUTION & HWY 24

SITE ADDRESS:  
2865 AKERS DR  
COLORADO SPRINGS, CO 80922-1500



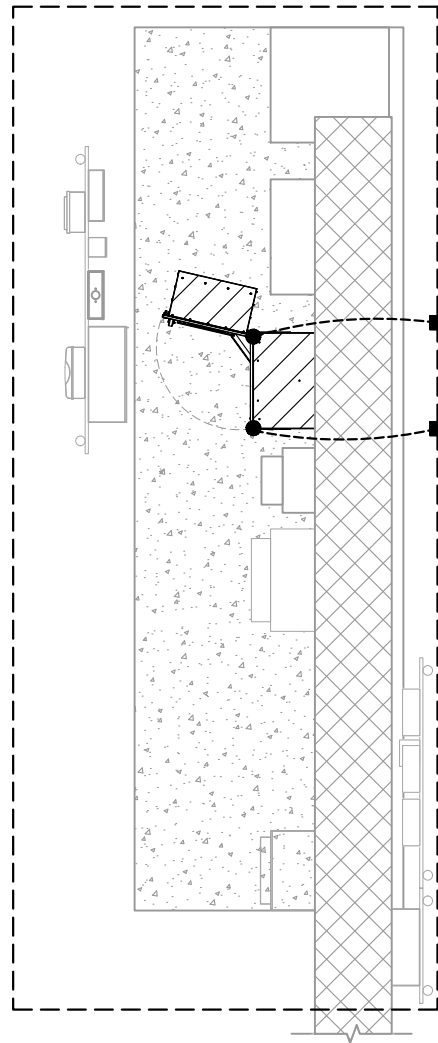
SEAL: 01/31/25



DATE DRAWN:	01/31/25
ATC JOB NO:	14885421
CUSTOMER NAME:	CONSTITUTION & HWY 24
CUSTOMER ID:	SICO004762

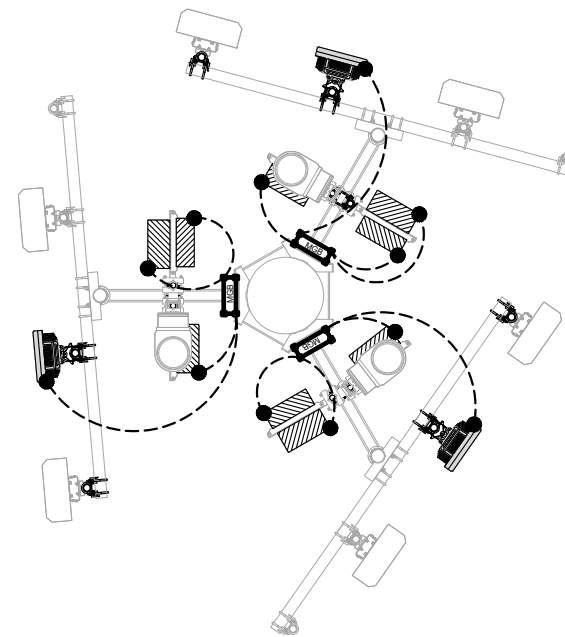
ELECTRICAL PANELS

SHEET NUMBER: E-102  
REVISION: 0



LEGEND	
■	MECHANICAL CONNECTION
●	ANTENNA GROUND BAR
▭	MASTER GROUND BAR

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



LEGEND	
■	EXOTHERMIC CONNECTION
●	MECHANICAL CONNECTION
▭	ANTENNA GROUND BAR
▭	MASTER GROUND BAR

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



PLANS PREPARED BY:



326 TRYON ROAD  
RALEIGH, NC 27603-3530  
OFFICE: (919) 661-6351  
www.tepgroup.net

TEP IS A FAMILY OF COMPANIES LICENSED TO PROVIDE DIFFERENT SERVICES IN DIFFERENT JURISDICTIONS. DEPENDING ON THE JURISDICTION, PROFESSIONAL ENGINEERING AND LAND SURVEYING SERVICES ARE PROVIDED BY TEP OPO LLC, A DELAWARE LIMITED LIABILITY COMPANY, TEP ENGINEERING, LLC, A NORTH CAROLINA PROFESSIONAL LIMITED LIABILITY COMPANY, OR M&H ENGINEERING, LLC, A NEW YORK PROFESSIONAL LIMITED LIABILITY COMPANY. GENERAL CONTRACTOR SERVICES ARE PROVIDED BY TEP OPO LLC, A DELAWARE LIMITED LIABILITY COMPANY. WE ACQUIRE THE REQUISITE LICENSES IN EACH STATE. ADDITIONAL INFORMATION CAN BE OBTAINED FROM THE COMPANY.

REV.	DESCRIPTION	BY	DATE
A	PRELIMINARY	ASB	12/18/24
0	100% CONSTRUCTION	ASB	01/31/25

ATC SITE NUMBER: 302459  
ATC SITE NAME: ELSMERE CO 1  
AT&T MOBILITY SITE NUMBER:  
SICO004762  
AT&T MOBILITY SITE NAME:  
CONSTITUTION & HWY 24  
SITE ADDRESS:  
2865 AKERS DR  
COLORADO SPRINGS, CO 80922-1320



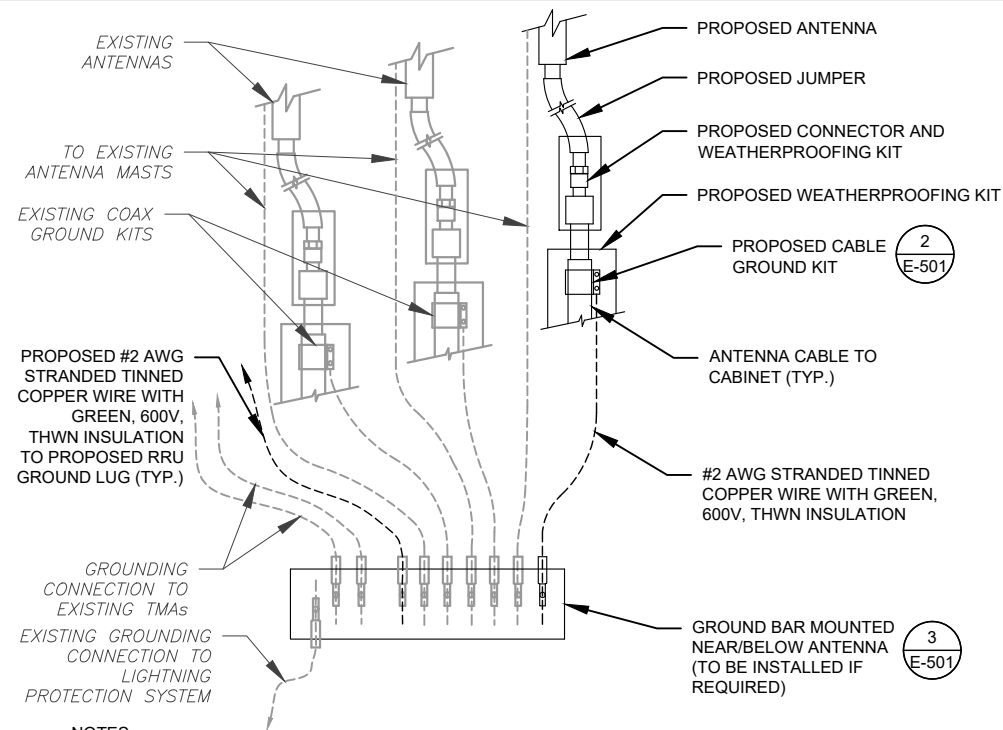
SEAL: 01/31/25



DATE DRAWN:	01/31/25
ATC JOB NO:	14885421
CUSTOMER NAME:	CONSTITUTION & HWY 24
CUSTOMER ID:	SICO004762

GROUNDING PLAN

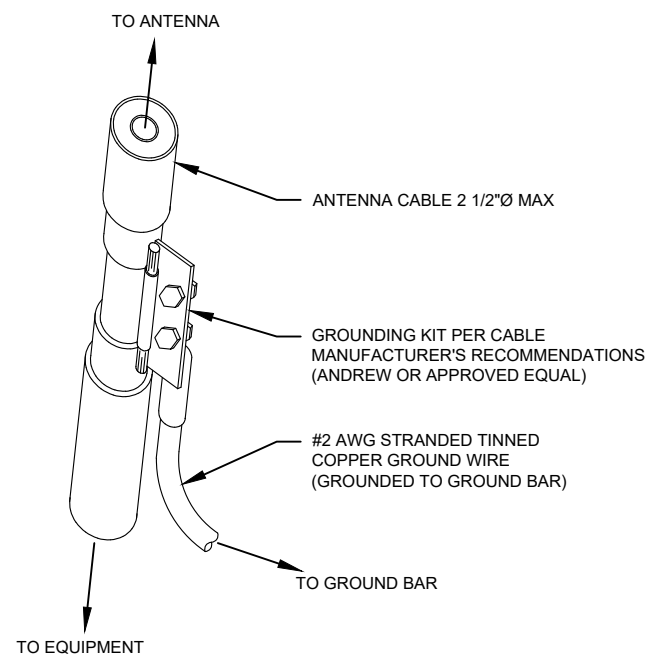
SHEET NUMBER:	REVISION:
E-103	0



**NOTES:**

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

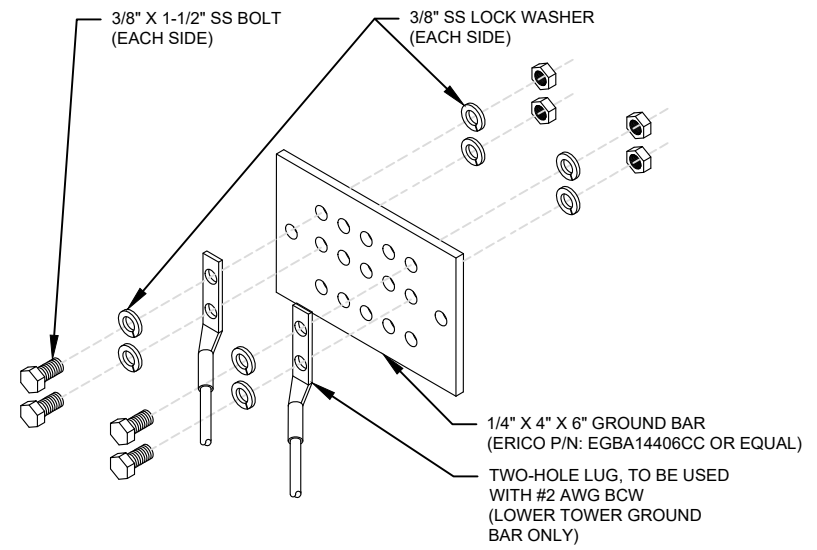
**1 TYPICAL ANTENNA GROUNDING DIAGRAM**  
SCALE: N.T.S.



**GROUND KIT NOTES:**

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.

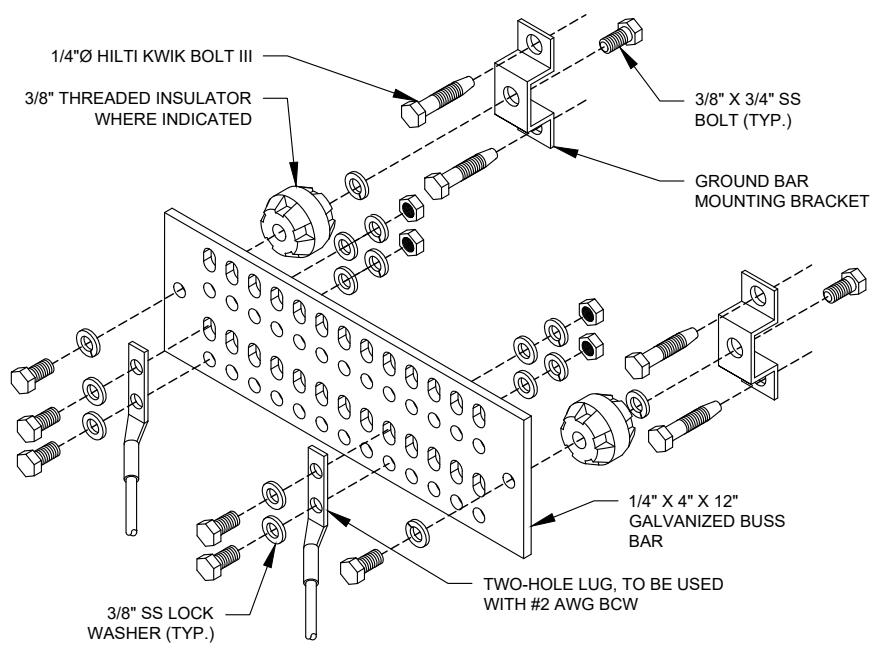
**2 CABLE GROUND KIT CONNECTION DETAIL**  
SCALE: N.T.S.



**GROUND BAR NOTES:**

1. 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.

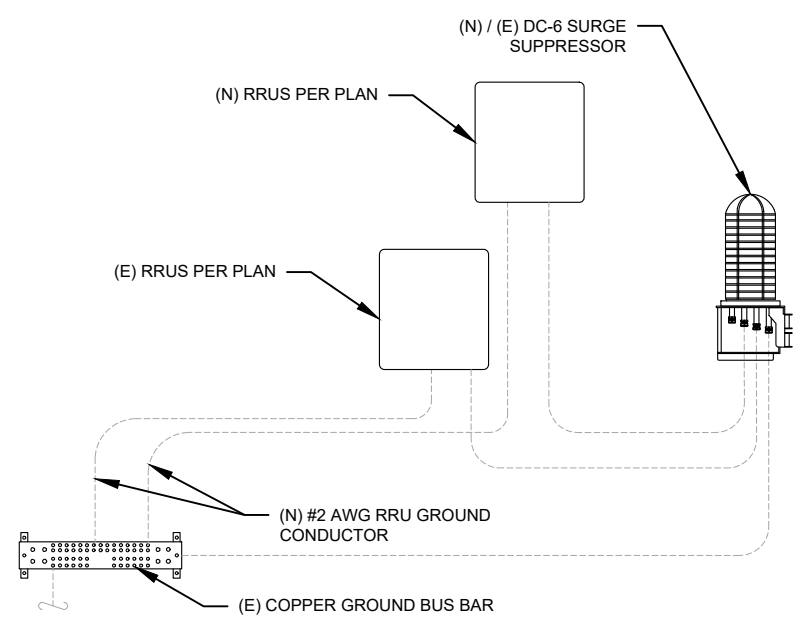
**3 TOWER GROUND BAR DETAIL**  
SCALE: N.T.S.



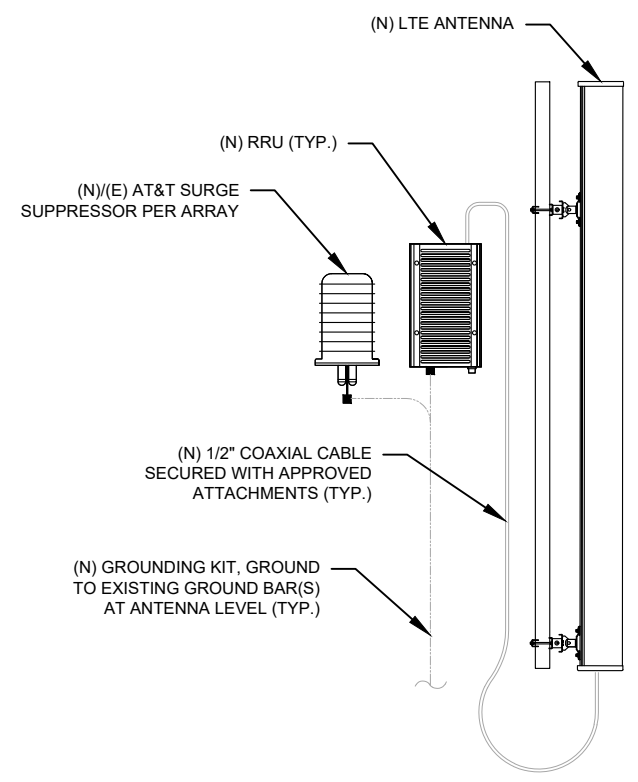
**GROUND BAR NOTES**

1. GROUND KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
2. GROUND BAR SHALL BE BOLTED TO STRUCTURAL MEMBER OR ANCHORED TO CONCRETE SLAB W/ HILTI KWIK BOLT III.

**4 MAIN GROUND BAR DETAIL**  
SCALE: N.T.S.



**5 RRU GROUNDING**  
SCALE: N.T.S.



**6 ANTENNA/RRU GROUNDING**  
SCALE: N.T.S.



326 TRYON ROAD  
RALEIGH, NC 27603-3530  
OFFICE: (919) 661-6351  
www.tepgroup.net

TEP IS A FAMILY OF COMPANIES LICENSED TO PROVIDE DIFFERENT SERVICES IN DIFFERENT JURISDICTIONS. DEPENDING ON THE JURISDICTION, PROFESSIONAL ENGINEERING AND LAND SURVEYING SERVICES ARE PROVIDED BY TEP OPCO LLC, A DELAWARE LIMITED LIABILITY COMPANY, TEP ENGINEERING, LLC, A NORTH CAROLINA PROFESSIONAL LIMITED LIABILITY COMPANY, OR M&H ENGINEERING, LLC, A NEW YORK PROFESSIONAL LIMITED LIABILITY COMPANY. GENERAL CONTRACTOR SERVICES ARE PROVIDED BY TEP OPCO LLC, A DELAWARE LIMITED LIABILITY COMPANY. WE ACQUIRE THE REQUISITE LICENSES IN EACH STATE. ADDITIONAL INFORMATION CAN BE OBTAINED FROM THE COMPANY.

REV.	DESCRIPTION	BY	DATE
A	PRELIMINARY	ASB	12/18/24
0	100% CONSTRUCTION	ASB	01/31/25

ATC SITE NUMBER: 302459  
ATC SITE NAME: ELSMERE CO 1  
AT&T MOBILITY SITE NUMBER:  
SICO004762  
AT&T MOBILITY SITE NAME:  
CONSTITUTION & HWY 24  
SITE ADDRESS:  
2865 AKERS DR  
COLORADO SPRINGS, CO 80922-1920



SEAL: 01/31/25

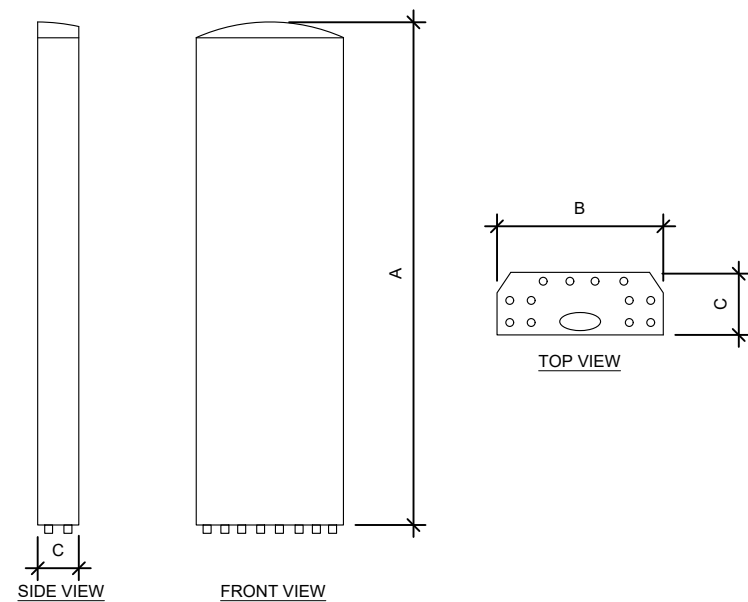


DATE DRAWN:	01/31/25
ATC JOB NO:	14885421
CUSTOMER NAME:	CONSTITUTION & HWY 24
CUSTOMER ID:	SICO004762

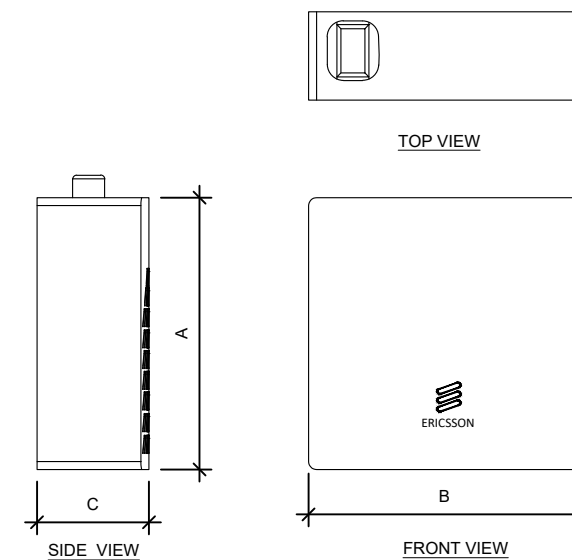
**GROUNDING DETAILS**

SHEET NUMBER:	REVISION:
<b>E-501</b>	<b>0</b>

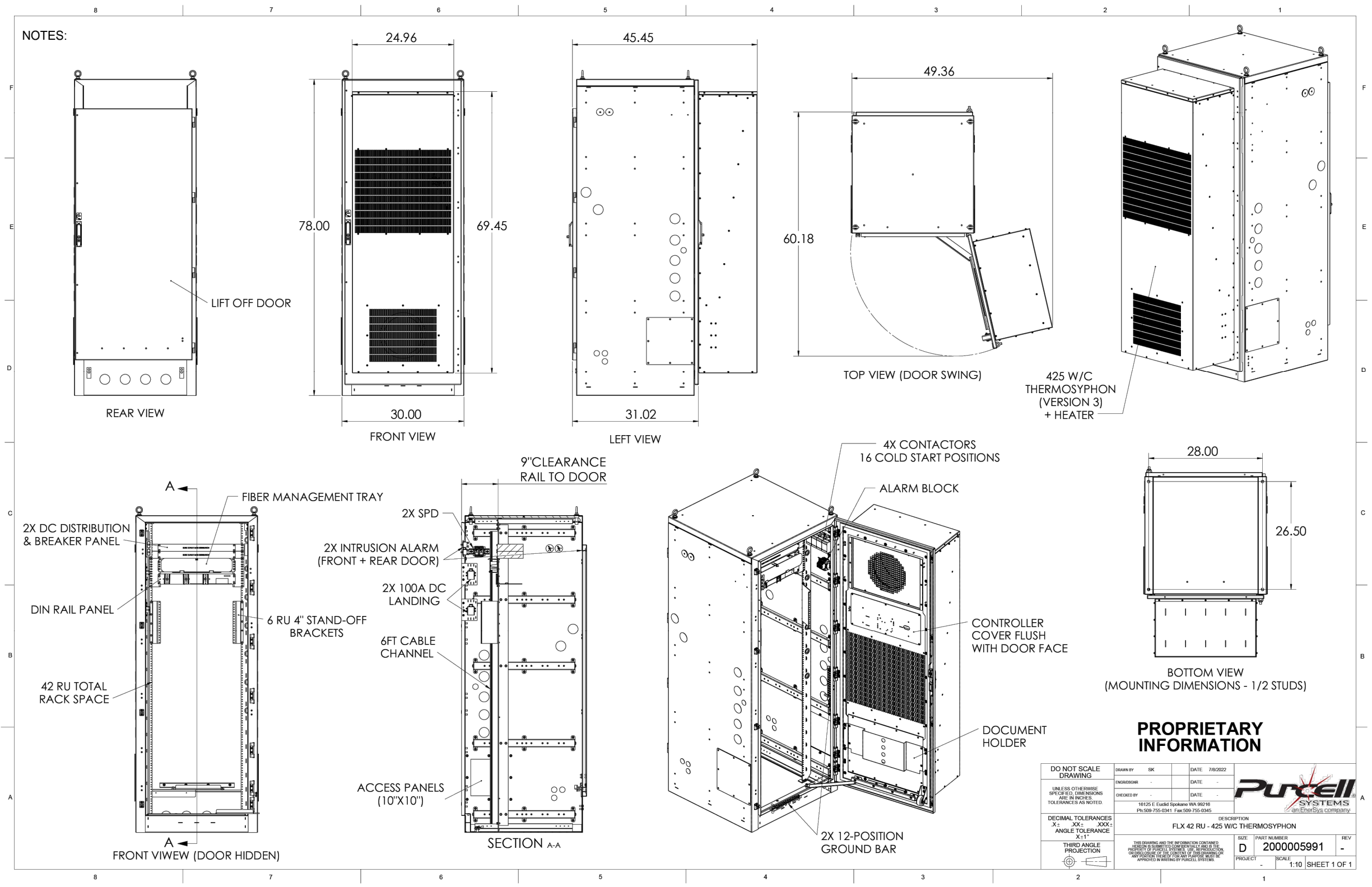
Copyright © 2025 ATC IP LLC. All Rights Reserved.



ANTENNA SPECIFICATIONS				
ANTENNA MODEL	A	B	C	WEIGHT (LBS)
AIR6472 B77G B77M	36.4"	16.1"	7.5"	92.6



RRU SPECIFICATIONS				
RRU MODEL	A	B	C	WEIGHT (LBS)
4490 B5/B12A	17.5"	15.1"	6.8"	68.3
4890 B25/B66A	17.5"	15.1"	6.9"	69.5
4494 B14/B29	17.5"	15.1"	5.6"	57.3



**1 PROPOSED FLX42 CABINET DETAIL**  
SCALE: N.T.S.

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

SUPPLEMENTAL

SHEET NUMBER: **R-602**  
REVISION: -

# Vertiv™ eSure™ Converter

C48/58-2000P3



## Vertiv™ eSure™ Converter



### Key Benefits

#### Converter, 48 to 58 VDC, 2000 W Peak / 1600 W Average

- Reduce power consumption and lower operating costs with 95% peak efficiency.
- Easily add capacity with hot pluggable interchangeable components.
- Ensure high availability with wide input voltage range from 41 VDC to 58 VDC.
- Power your 5G sites in the harsh environments with operation from -40°C to +65°C.
- Enjoy peace of mind with high quality UL recognized design.

Easily support higher power 5G remote radios on cell towers with modular 2000 watt eSure™ power extend converters.

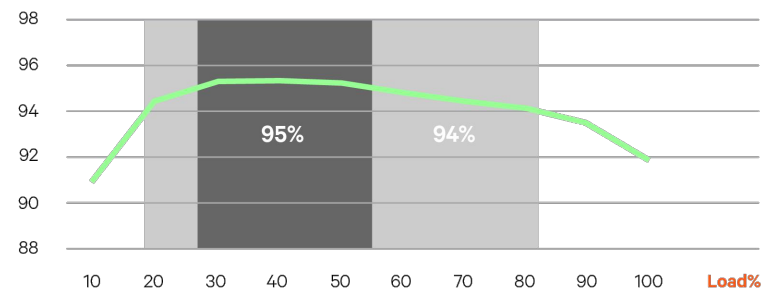
### Description

The Vertiv™ eSure™ C48/58-2000P3 high-efficiency converter is designed to operate from a nominal -48 VDC source to provide nominal -58 VDC load power, which is adjustable to application needs up to 2000 watts peak, 1600 watts average. This constant power converter designed with the latest patented switchmode technology, uses digital signal processing (DSP) for efficient operation.

The eSure C48/58-2000P3 DC to DC converter is ideal for feeding high power remote radio heads (RRHs). 58 VDC is regulated over a wide input range to minimize voltage drop in the cable feeding the RRH and sustain operation to end of battery discharge. When redundancy is critical or loads are high, multiple eSure C48/58-2000P3 converters can be connected in parallel to support a variety of telecom applications. Unified remote management and control of the power system is enabled when combined with a Vertiv™ NetSure™ controller.



### % Efficiency



C48/58-2000P3 Efficiency Curve at 53.5 VDC Nominal Input

### Technical Specifications

DC Input	C48/58-2000P3
Voltage	41 VDC to 58.5 VDC, 48 VDC (nominal)
Maximum Current	53 A

DC Output	
Voltage	56 VDC to 58 VDC
Maximum Power	2000 W peak, 1600 W average at 40°C, 1280 W average at 65°C
Maximum Current	35.7 A at 2000 W peak (see figure 1), 28.6 A at 1600 W average, 22.9 A at 1280 W average, all at 56 VDC
Peak Efficiency	>95%
Noise	< 250mV pk-pk; < 20mV rms; <38 dBmC

Control and Monitoring	
Alarms and Signaling	Alarm and status reported via CAN bus to system controller
Visual Indications	Green LED: Normal Operation Yellow LED: Alarm Red LED: Failure Flashing Red LED: Fan Failure

Environmental	
Operating Temperature	-40°C to +80°C / -40°F to +176°F (see figure 2)
Storage Temperature	-40°C to +85°C / -40°F to +185°F
Relative Humidity	0 to 90%
Altitude	2000 m / 6560 ft at full power

Standards Compliance	
Safety	UL62368-1, EN62368-1, IEC62368-1
EMC	FCC CFR 47 Part 15 Class A conducted and Class B radiated
Environment	REACH, RoHS

Mechanics	
Dimensions (H x W x D)	41 x 84.5 x 252.5 mm / 1.61 x 3.33 x 9.94 inches
Weight	1.13 kg / 2.49 lbs

### Ordering Information

Part Number	Description
1C48582000P3	eSure™ converter, -48 to -58 VDC, 2000 W peak / 1600 W average

Vertiv.com | Vertiv Headquarters, 1050 Dearborn Drive, Columbus, OH, 43085, USA

© 2024 Vertiv Group Corp. All rights reserved. Vertiv™ and the Vertiv logo are trademarks or registered trademarks of Vertiv Group Corp. All other names and logos referred to are trade names, trademarks or registered trademarks of their respective owners. While every precaution has been taken to ensure accuracy and completeness here, Vertiv Group Corp. assumes no responsibility, and disclaims all liability, for damages resulting from use of this information or for any errors or omissions. Specifications, rebates and other promotional offers are subject to change at Vertiv's sole discretion upon notice.

C48/58-2000P3 (02/2024)

### Figures

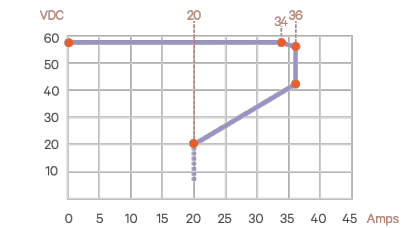


Figure 1: Output Voltage vs. Output Current at Maximum peak Power 2000 W

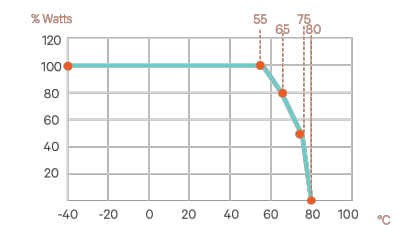


Figure 2: Output Power vs. Temperature at -41VDC=Vin ± -58VDC



# PS-CONV-48-24



PowerShift Power Supply, 48/24V DC 20A Converter panel, 19/23 in, 1 RU high, with four 24V DC GMT fuse outputs

- Power Input/Output Connect – Plug and Play
- 1U form factor saves rack space and power in wiring closets
- Universal shelf mounting brackets for 19 inch, 23 inch or ETSI frame mounting

- 48 VDC to +24 VDC power converter
- 19 & 23 inch rack mountable
- Compact 1RU height
- (1) -48 VDC Input and (4) +24VDC GMT Fuse Outputs
- NO/NC dry contact alarming
- LED status lights: Green - Power On / Red - Alarm indicator

## Product Classification

<b>Portfolio</b>	CommScope®
<b>Product Type</b>	DC/DC Converter
<b>Product Brand</b>	PowerShift®

## General Specifications

<b>Color</b>	Light Gray (RAL 7035)
<b>Rack Type</b>	EIA 19 in
<b>Rack Units</b>	1

## Dimensions

<b>Height</b>	44.45 mm   1.75 in
<b>Width</b>	438.15 mm   17.25 in
<b>Depth</b>	177.8 mm   7 in

## Electrical Specifications

<b>Input Current, nominal</b>	12.5 A
<b>Input Voltage Range</b>	-40 to -58 Vdc
<b>Input Voltage, nominal</b>	-48 Vdc
<b>Output Current Range</b>	0–20 A
<b>Output Current, nominal, dc</b>	5 A
<b>Output Power Connections, quantity</b>	4

Page 1 of 2

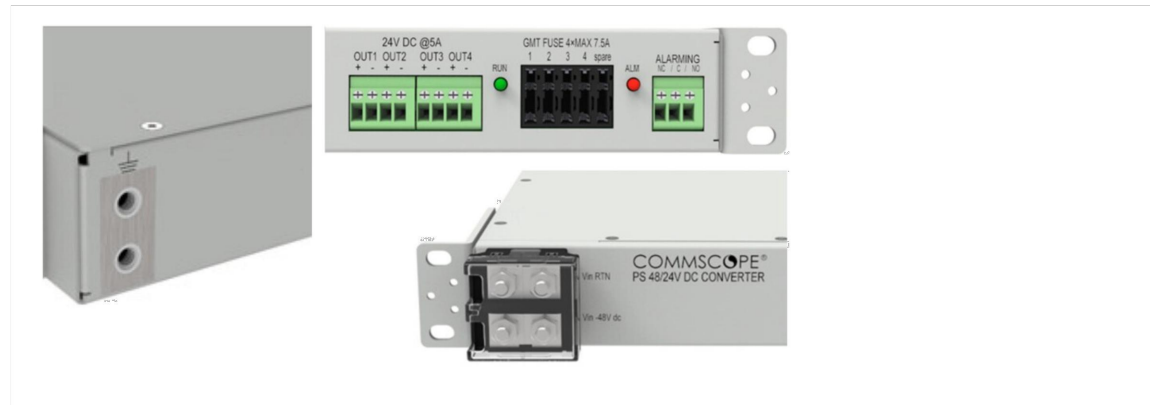
©2024 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see <https://www.commscope.com/trademarks>. All product names, trademarks and registered trademarks are property of their respective owners. Revised: July 5, 2024



# PS-CONV-48-24

<b>Output Voltage, nominal</b>	24 Vdc
<b>Power Efficiency</b>	90 %

## Representative Image



## Environmental Specifications

<b>Operating Temperature</b>	-40 °C to +65 °C (-40 °F to +149 °F)
<b>Storage Temperature</b>	-40 °C to +85 °C (-40 °F to +185 °F)
<b>Relative Humidity</b>	0%–95%, non-condensing

## Packaging and Weights

<b>Weight, net</b>	2.903 kg   6.4 lb
--------------------	-------------------

## Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Above maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
ROHS	Compliant/Exempted
UK-ROHS	Compliant/Exempted



Page 2 of 2

©2024 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see <https://www.commscope.com/trademarks>. All product names, trademarks and registered trademarks are property of their respective owners. Revised: July 5, 2024



SUPPLEMENTAL

SHEET NUMBER: <b>R-604</b>	REVISION: -
-------------------------------	----------------

1 PROPOSED VERTIV CONVERTER SHELF DETAIL

SCALE : N.T.S.

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

# Pxxx: Bulk Pipe



Part #	Length	OD x Length (in)
Schedule 40		
P260	5'-0"	2-3/8" x 60"
P263	5'-3"	2-3/8" x 63"
P272	6'-0"	2-3/8" x 72"
P284	7'-0"	2-3/8" x 84"
P296	8'-0"	2-3/8" x 96"
P2108	9'-0"	2-3/8" x 108"
P2120	10'-0"	2-3/8" x 120"
P2126	10'-6"	2-3/8" x 126"
P2150	12'-6"	2-3/8" x 150"
P2174	14'-6"	2-3/8" x 174"
P2252	21'-0"	2-3/8" x 252"
P3072	6'-0"	2-7/8" x 72"
P3084	7'-0"	2-7/8" x 84"
P3096	8'-0"	2-7/8" x 96"
P30108	9'-0"	2-7/8" x 108"
P30120	10'-0"	2-7/8" x 120"
P30126	10'-6"	2-7/8" x 126"
P30150	12'-6"	2-7/8" x 150"
P30174	14'-6"	2-7/8" x 174"
P30252	21'-0"	2-7/8" x 252"
P360	5'-0"	3-1/2" x 60"
P372	6'-0"	3-1/2" x 72"
P384	7'-0"	3-1/2" x 84"
P396	8'-0"	3-1/2" x 96"
P3150	12'-6"	3-1/2" x 150"
P3160	13'-4"	3-1/2" x 160"
P3174	14'-6"	3-1/2" x 174"
P3216	18'-0"	3-1/2" x 216"
P3252	21'-0"	3-1/2" x 252"
P472	6'-0"	4-1/2" x 72"
P4126	10'-6"	4-1/2" x 126"
P4252	21'-0"	4-1/2" x 252"



### Features:

- Factory cut end, hot-dip galvanized pipe

### Construction:

- ASTM A53 Grade B
- Schedule 40 or Schedule 80

### Design Criteria:

- ASTM A53 Grade B (Yield Fy = 35 ksi [240 MPa]/ Tensile Fu = 60 ksi [415 MPa])
- Hot dip galvanized in accordance with ASTM A123 requirements

Part #	Length	OD x Length (in)
Schedule 80		
P2252-80	21'	2-1/2" x 252"
P30126-80	10'-6"	2-7/8" x 126"
P30252-80	21'	2-7/8" x 252"
P3252-80	21'	3-1/2" x 252"

Created: 03/09/2023

SitePro1.com

888-438-7761

1

## PROPOSED MOUNT PIPE DETAIL

SCALE : N.T.S.

# XP-197-D



Double Crossover Plate kit for MT-197 Stand-off : Mounts two 2-3/8" Pipes to 4-1/2" Round or 4" Square Members

## Product Classification

**Product Type** Pipe mount kit

## General Specifications

**Mounting** Stand-off arm

**Pipe, quantity** 0

## Dimensions

**Height** 254 mm | 10 in

**Width** 254 mm | 10 in

**Length** 254 mm | 10 in

**Mounting Diameter, maximum** 114.3 mm | 4.5 in

**Pipe Outer Diameter** 60.96 mm | 2.4 in

## Material Specifications

**Material Type** Hot dip galvanized steel

## Packaging and Weights

**Included** Crossover bracket | Hardware

**Packaging quantity** 1

**Weight, net** 9.1 kg | 20.062 lb

## Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
REACH-SVHC	Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>

Page 1 of 2

©2020 CommScope, Inc. All rights reserved. All trademarks identified by ® or ™ are registered trademarks, respectively, of CommScope. All specifications are subject to change without notice. See [www.commscope.com](http://www.commscope.com) for the most current information. Revised: December 8, 2020

COMMSCOPE®

2

## PROPOSED CROSSOVER PLATE KIT DETAIL

SCALE : N.T.S.

## SUPPLEMENTAL

SHEET NUMBER:

R-605

REVISION:

-

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

# Pxxx: Bulk Pipe



Part #	Length	OD x Length (in)
Schedule 40		
P260	5'-0"	2-3/8" x 60"
P263	5'-3"	2-3/8" x 63"
P272	6'-0"	2-3/8" x 72"
P284	7'-0"	2-3/8" x 84"
P296	8'-0"	2-3/8" x 96"
P2108	9'-0"	2-3/8" x 108"
P2120	10'-0"	2-3/8" x 120"
P2126	10'-6"	2-3/8" x 126"
P2150	12'-6"	2-3/8" x 150"
P2174	14'-6"	2-3/8" x 174"
P2252	21'-0"	2-3/8" x 252"
P3072	6'-0"	2-7/8" x 72"
P3084	7'-0"	2-7/8" x 84"
P3096	8'-0"	2-7/8" x 96"
P30108	9'-0"	2-7/8" x 108"
P30120	10'-0"	2-7/8" x 120"
P30126	10'-6"	2-7/8" x 126"
P30150	12'-6"	2-7/8" x 150"
P30174	14'-6"	2-7/8" x 174"
P30252	21'-0"	2-7/8" x 252"
P360	5'-0"	3-1/2" x 60"
P372	6'-0"	3-1/2" x 72"
P384	7'-0"	3-1/2" x 84"
P396	8'-0"	3-1/2" x 96"
P3150	12'-6"	3-1/2" x 150"
P3160	13'-4"	3-1/2" x 160"
P3174	14'-6"	3-1/2" x 174"
P3216	18'-0"	3-1/2" x 216"
P3252	21'-0"	3-1/2" x 252"
P472	6'-0"	4-1/2" x 72"
P4126	10'-6"	4-1/2" x 126"
P4252	21'-0"	4-1/2" x 252"



**Features:**

- Factory cut end, hot-dip galvanized pipe

**Construction:**

- ASTM A53 Grade B
- Schedule 40 or Schedule 80

**Design Criteria:**

- ASTM A53 Grade B (Yield Fy = 35 ksi [240 MPa]/ Tensile Fu = 60 ksi [415 MPa])
- Hot dip galvanized in accordance with ASTM A123 requirements

Part #	Length	OD x Length (in)
Schedule 80		
P2252-80	21'	2-1/2" x 252"
P30126-80	10'-6"	2-7/8" x 126"
P30252-80	21'	2-7/8" x 252"
P3252-80	21'	3-1/2" x 252"

Created on: 03/09/2023

SitePro1.com

888-438-7761

1 PROPOSED MOUNT PIPE DETAIL  
SCALE : N.T.S.

2 PROPOSED CROSSOVER PLATE KIT DETAIL  
SCALE : N.T.S.

ITEM	QTY	PART NO.	DESCRIPTION	WEIGHT
1	1	CS03105	PLATE, CROSSOVER 3/8 X 8 5/8 X 1'-0 1/8	12
2	4	CS00144	2 HOLE PIPE ADAPTER CLAMP 1 1/2" TO 5" O.D.	10
3	8	C40140004	BOLT ASSEMBLY, 5/8 # X 8 A307 FULL THREAD	7
4	8	C40031003	FLATWASHER, 5/8 # HARDENED ASTM F436	1
TOTAL WEIGHT				30

**UNIVERSAL CROSSOVER PLATE (1 1/2"-5"OD & 1 1/2"-5"OD)**

**UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES TOLERANCES FRACTIONS & 1/16" ANGLES & 1/2 DEG; DECIMALS & .010"**

**CONFIDENTIAL**  
This document and the information contained herein is the confidential trade secret property of Sabre Communications Corporation ("Sabre") and must not be reproduced, copied or used, in whole or in part, for any purpose without the prior written consent of Sabre. ©2010 Sabre Communications Corporation. All rights reserved.

**Distributed By**  
**Rosenberger**  
Rosenberger Site Solutions, LLC  
Call 1.866.598.5250 or visit www.RLSS.us

**Sabre Towers & Poles**

DATE: 3/11/10  
DRAWN BY: JUV  
CHECKED BY: WMN

SIZE: B  
DRAWING NO.: C10902997  
SCALE: None  
REV: 2  
PAGE: 1 OF 1

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

SUPPLEMENTAL

SHEET NUMBER: <b>R-606</b>	REVISION: -
-------------------------------	----------------

Copyright © 2025 ATC-IP LLC. All Rights Reserved



This report was prepared for American Tower Corporation by



## Antenna Mount Analysis Report

**Mount Type** : 12.5 ft T-Arm  
**ATC Asset Name** : Elsmere CO 1  
**ATC Asset Number** : 302459  
**Engineering Number** : 14885421\_C8\_01  
**ETS, PLLC Job Number** : 24130868.STR.4518  
**Mount Elevation** : 45.0 ft  
**Carrier** : AT&T Mobility  
**Carrier Site Name** : CONSTITUTION & HWY 24  
**Carrier Site Number** : WSUTH0051541  
**Site Location** : 2865 Akers Drive  
 Colorado Springs, CO 80922  
 38.874895, -104.68621414  
**County** : El Paso  
**Date** : December 6, 2024  
**Max Usage** : 62%  
**Result** : Contingent Pass

Prepared By:  
Bach Tran, EI  
Structural Engineer

Reviewed By:  
J. Scott Hilgoe, PE  
Structural Engineering Manager

Engineered Tower Solutions, PLLC – 3227 Wellington Ct, Raleigh, NC 27615 - 919.782.2710 Office - www.engineeredtowersolutions.com



Eng. Number 14885421\_C8\_01  
December 6, 2024  
Page 3

### Introduction

The purpose of this report is to summarize results of the antenna mount analysis performed for AT&T Mobility at 45.0 ft.

### Supporting Documents

Mount Analysis	ATC Tower Services Proj. # 13248041_C8_05, dated July 1, 2020
Scoping Form	FA# 10102196, dated October 17, 2024
Photos	Site photos from 2022

### Analysis

This antenna mount was analyzed using RISA-3D v22 analysis software.

Basic Wind Speed:	130 mph (3-Second Gust, $V_{ult}$ )
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) w/ 0.25" radial ice concurrent
Codes:	ANSI/TIA-222-H / 2021 IBC / Pikes Peak Regional Building Code, 2023 Edition
Structure Class:	II
Exposure Category:	C
Topographic Procedure:	Method 2
Topographic Feature:	Flat
Crest Height:	0 ft
Crest Length:	0 ft
Spectral Response:	$S_s = 0.185, S_1 = 0.059$
Site Class:	D – Default
Live Loads:	$L_m = 250 \text{ lbs}, L_v = 250 \text{ lbs}$

\*Live load(s) have been reduced on the existing structure per ANSI/TIA-222-H Section 16.9

### Conclusion

Based on the analysis results, the antenna mount meets the requirements per the applicable codes listed above provided the modifications listed below are completed:

- Replace existing side arm mount pipes with (6) Site Pro 1 #P296, 2.0 SCH 40 x 8'-0", A53 Gr.B (ANT.55983, or approved equivalent) (2 per sector, 6 total) mount pipe to be located 12" +/- 3" from connection to tower. Connect with Commscope XP-197-D (ANT.57730, or approved equivalent) crossover kits.
- Rotate mount to match antenna azimuths.
- Replace short mount pipe on position 1 with Site Pro 1 #P30120, 2.5 SCH 40 x 10'-0", A53 Gr.B (ANT.16008, or approved equivalent) mount pipe on all sectors to be located 51 inches from left end of mount face looking out from tower. Connect with Sabre C10902997 (CEQ.18321 or approved equivalent) universal crossover plate kit.
- Relocate remaining mount pipes to match antenna spacing requirements per 2024 AT&T Macro Build Standards.

Engineered Tower Solutions, PLLC – 3227 Wellington Ct, Raleigh, NC 27615 - 919.782.2710 Office - www.engineeredtowersolutions.com

SUPPLEMENTAL

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

1 MOUNT ANALYSIS

SHEET NUMBER:  
**R-607**

REVISION:  
-