



Project Narrative: Branchville Water Tank site at 6900 Powder Mill Road FY-10-BA-012

6900 POWDER MILL ROAD BELTSVILLE, MD 20705

AT&T Site Name: Branchville

AT&T FA: 10092075

AT&T Site# WT316

Submission:

Project Description:

AT&T is proposing to modify an existing antenna located on the Water Tank at 6900 Power Mill Road Beltsville, MD 20705. This proposed upgrade will enhance wireless coverage and capacity. This modernization will also support the National Public Safety Broadband Network (FirstNet) to support National and Homeland Security, first responders, and local events. Increasing wireless service and capacity is important, more so now than ever before. During the COVID-19 pandemic, people depended on wireless service to work, stay connected with doctors, school, loved ones, and more. This proposed upgrade will not only be an asset to AT&T customers, but to public safety as well.

Proposed Antenna Description and Scope of Work:

All antennas are to be mounted to the existing Water Tank Mounts. AT&T's construction drawings (sheet C-3). AT&T's proposed scope of work is to remove (9) antennas, remove (9) RRHs, remove (6) TMA, installing (6) new antennas and (9) new RRHS

Alpha Sector

To be remove- (3) antennas, (3) RRHs & (1) TMA. Installing (2) antennas and (3) RRHs

Final configuration-

(1) CELLMAX CMA-UBTULBULBHHP-6516-16-21-21 (72.4"H x 27.2"W x 7.7"D)

(1) CELLMAX 120716 (72.5"H x 16.4"W x 5.3"D)

Beta Sector

To be remove- (3) antennas, (3) RRHs & (1) TMA. Installing (2) antennas and (3) RRHs

Final configuration-

(1) CELLMAX CMA-UBTULBULBHHP-6516-16-21-21 (72.4"H x 27.2"W x 7.7"D)

(1) CELLMAX 120716 (72.5"H x 16.4"W x 5.3"D)

Gamma Sector

To be remove- (3) antennas, (3) RRHs & (1) TMA. Installing (2) antennas and (3) RRHs

Final configuration-

(1) CELLMAX CMA-UBTULBULBHHP-6516-16-21-21 (72.4"H x 27.2"W x 7.7"D)

(1) CELLMAX 120716 (72.5"H x 16.4"W x 5.3"D)

Environmental:

AT&T has run an MPE report that analyzes the RF exposure on the rooftop. In accordance with FCC regulations AT&T will post signs where required and will be in FCC compliance.

Project Schedule:

AT&T to install is TBD and is depending on Landlord approval. As of now there is no confirmed construction schedule. Once AT&T has the necessary approvals, construction could start approximately (90) days thereafter. Construction complete, with antennas on air, forecasted out another (30) days dependent on weather conditions.

Supporting Documents Included with Submission for Consideration:

1. Construction Drawings (Rev-9.04.2025)
2. Project Narrative (Rev 1 4.05.2026)

Frank, Stephanie (CTR) - REE-ARS

From: Becky Roman <becky.roman@maryland.gov>
Sent: Tuesday, March 3, 2026 5:23 PM
To: Frank, Stephanie (CTR) - REE-ARS
Cc: Dixie Henry -MDP-
Subject: Re: FW: BARC water tower contributing status?

Good afternoon Stephanie,

Though the Potable Water System features were determined not eligible in March 1998, the entire facility was determined to be an eligible historic district in March 2000. An MIHP Addendum completed by Lorrin Harris of AECOM in March 2017 clearly describes the period of significance at BARC to extend to the reorganization of USDA research in 1972. In January 2022, one of the well houses (Building 1092, Well #9) was determined to be contributing to the historic district as part of the Surplus Building Demolitions project. As such, the structures and buildings called out in the Potable Water System DOE form contribute to the BARC Historic District unless they post-date the Period of Significance which ends in 1972, or if they are documented as lacking integrity. Based on their appearance in Google Earth birdseye and streetview, all the water towers are contributing to the BARC Historic District.

In speaking with the team here at MHT, we are planning an updated DOE for the potable water system to update and clarify their NR status. I hope to finish this DOE sometime this month and can send you a PDF copy after it is completed.

I can say that given the significance of the BARC Historic District under Criterion A, and the nature of utilitarian water tower structures, any planned upgrades/rehabilitation/repairs would be unlikely to cause an adverse effect.

Please let me know if you have any further questions. I am out of the office until Friday for Cataract surgery, but hope to telework on Friday and be back in the office next week.

Have a great rest of your week,
Becky



Becky Roman (*she, her, hers*)
Preservation Officer / Architectural Historian
Project Review and Compliance
Maryland Historical Trust
Maryland Department of Planning
100 Community Place, 3rd Floor, Crownsville, MD 21032
becky.roman@maryland.gov (410) 697-9587
Mht.maryland.gov

On Mon, Mar 2, 2026 at 1:30 PM Frank, Stephanie (CTR) - REE-ARS <Stephanie.Frank@usda.gov> wrote:

Thanks, Becky! I have photos of the towers too, if you need/want that.

Stephanie

Stephanie Frank, PhD
Historic Resources Manager (contractor)
Facilities Division | Real Property Management Branch



U.S. DEPARTMENT OF AGRICULTURE

Agricultural Research Service
5601 Sunnyside Ave, Beltsville, MD 20705
stephanie.frank@usda.gov
p: (301) 837-8798

From: Becky Roman <becky.roman@maryland.gov>
Sent: Monday, March 2, 2026 1:28 PM
To: Frank, Stephanie (CTR) - REE-ARS <Stephanie.Frank@usda.gov>
Subject: Re: FW: BARC water tower contributing status?

Hi Stephanie - Yes, this map will work. I will try to get back to you later today or tomorrow morning.

Many Thanks,

Becky

On Mon, Mar 2, 2026 at 1:19 PM Frank, Stephanie (CTR) - REE-ARS <Stephanie.Frank@usda.gov> wrote:

Hi, Becky,

Is this map adequate to show the location of the Water Towers 1, 2, and 3? If not, I can grab screenshots from Google Earth for each of them based on the longitude and latitude listed on the cover sheet for the plans.

Thanks,

Stephanie

Stephanie Frank, PhD
Historic Resources Manager (contractor)
Facilities Division | Real Property Management Branch



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5601 Sunnyside Ave, Beltsville, MD 20705
stephanie.frank@usda.gov
p: (301) 837-8798

From: Becky Roman <becky.roman@maryland.gov>
Sent: Monday, March 2, 2026 10:36 AM
To: Frank, Stephanie (CTR) - REE-ARS <Stephanie.Frank@usda.gov>
Subject: Re: FW: BARC water tower contributing status?

Hi Stephanie - Can you send me a screenshot of a google aerial showing its location? As 5 are mentioned in the mIHP record, I want to confirm which water tower. Many Thanks!

-Becky

Becky Roman

Preservation Officer, Project Review and Compliance
Maryland Historical Trust
becky.roman@maryland.gov
she, her, hers

On Mon, Mar 2, 2026 at 9:42 AM Frank, Stephanie (CTR) - REE-ARS <Stephanie.Frank@usda.gov> wrote:

Hi, Becky,

Were you able to check the files on the BARC water tower status?

Thank you,

Stephanie

Stephanie Frank, PhD
Historic Resources Manager (contractor)
Facilities Division | Real Property Management Branch



U.S. DEPARTMENT OF AGRICULTURE

Agricultural Research Service

5601 Sunnyside Ave, Beltsville, MD 20705

stephanie.frank@usda.gov

p: (301) 837-8798

From: Becky Roman <becky.roman@maryland.gov>
Sent: Monday, February 16, 2026 6:12 PM
To: Frank, Stephanie (CTR) - REE-ARS <Stephanie.Frank@usda.gov>
Subject: Re: FW: BARC water tower contributing status?

Greetings Stephanie,

Thank you for your follow up. Let me check when I am in the office on Tuesday. That will give me access to both online and hard copy survey files.

I hope you had a good long weekend,

Becky



Becky Roman (*she, her, hers*)
Preservation Officer / Architectural Historian
Project Review and Compliance
Maryland Historical Trust
Maryland Department of Planning
100 Community Place, 3rd Floor, Crownsville, MD 21032
becky.roman@maryland.gov (410) 697-9587
Mht.maryland.gov

On Fri, Feb 13, 2026 at 4:04 PM Frank, Stephanie (CTR) - REE-ARS <Stephanie.Frank@usda.gov> wrote:

From: Frank, Stephanie (CTR) - REE-ARS
Sent: Wednesday, January 7, 2026 6:42 PM
To: Becky Roman -MDP- <becky.roman@maryland.gov>
Subject: BARC water tower contributing status?

Hi, Becky,

Happy New Year! Has MHT made a determination on whether the BARC water towers are contributors to the historic district? They were built circa 1966 according to BARC records. I have seen conflicting information between BARC reports and online searches (this [NCPC application from 2021](#) contradicts itself).

While I anticipate you will receive a Section 106 review request from AT&T to upgrade antennas on a tower soon, ARS is planning to repaint the retired USDA logo to match current USDA standards. I am trying to determine if this will warrant a Section 106 review.

Thank you,

Stephanie

Stephanie Frank, PhD
Historic Resources Manager (contractor)



U.S. DEPARTMENT OF AGRICULTURE

Agricultural Research Service

5601 Sunnyside Ave, Beltsville, MD 20705

stephanie.frank@usda.gov

p: (301) 837-8798

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AT&T

SITE NAME: BRANCHVILLE
FA#: 10092075
USID: 98501
COUNTY: PRINCE GEORGES
STRUCTURE TYPE: 109'-0" WATER TANK

PAGE#: N/A
IWM#: WSWSH0043182, WSWSH0042037,
 WSWSH0042400, WSWSH0042453,
 WSWSH0042734, WSWSH0042834
PROJECT#: LTE 1C RRH SWAP, LTE SOFTWARE
 RRH SWAP, 5G NR SOFTWARE RRH
 SWAP, 5G NR SOFTWARE RRH SWAP,
 LTE RRH SWAP, 5G NR RRH SWAP



PROJECT INFORMATION

SITE ADDRESS: 6900 POWDER MILL ROAD
TAKOMA PARK, MD 20912

LATITUDE (NAD83): 39.03611111' N

LONGITUDE (NAD83): -76.8758333' W

GROUND ELEVATION: ±210'-0" (AMSL)

COUNTY: PRINCE GEORGES

JURISDICTION: PRINCE GEORGES COUNTY

ELECTRIC PROVIDER: PEPCCO
PHONE:

TELCO PROVIDER: AT&T
PHONE:

OCCUPANCY TYPE: UNMANNED

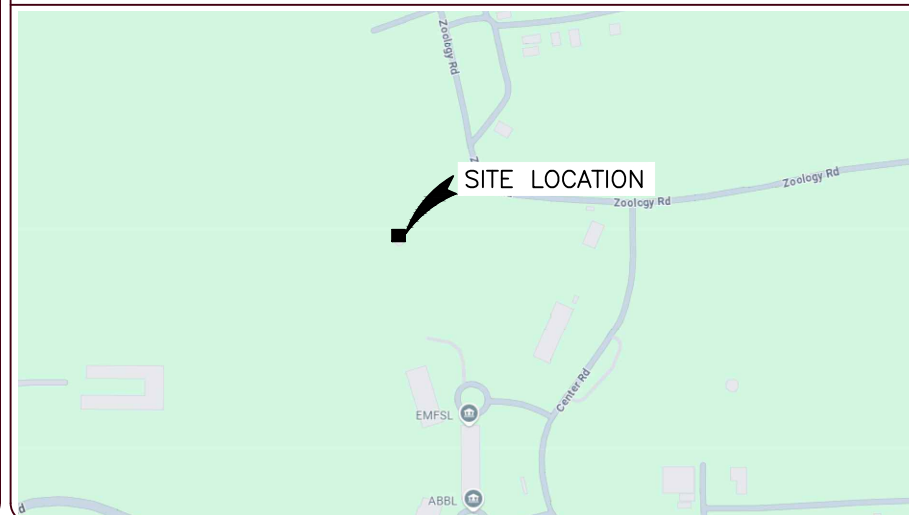
ADA COMPLIANCE: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION.

APPLICANT: AT&T MOBILITY
7150 STANDARD DRIVE
HANOVER, MD 21076

TOWER OWNER: UNITED STATES OF AMERICA
ADDRESS: GSA OFFICE COMM PUB BLDG SE
18TH & F STREETS NW
WASHINGTON, DC 20405-0001

A&E FIRM: TRYLON TSF
ADDRESS: 1825 W. WALNUT HILL LANE, STE#120
IRVING, TX 75038
CONTACT: CLIFF ABERNATHY
PHONE: 1-855-669-5421
EMAIL: CLIFF.ABERNATHY@TRYLON.COM

AREA MAP



PROJECT DESCRIPTION

- THE SCOPE OF WORK WILL BE COMPRISED OF:**
- REMOVE NOKIA BBU CHASSIS
 - REMOVE 9412 CABINET
 - REMOVE UMTS CABINET
 - REMOVE (9) RRHS
 - REMOVE (9) ANTENNAS
 - REMOVE (6) TMAS
 - REMOVE (3) UNISTRUTS FRAMES
 - INSTALL (6) ANTENNAS
 - INSTALL (9) RRHS
 - INSTALL (1) RAY38 RRYOC-38U23-8000HEX CABINET
 - INSTALL (4) EAST PENN MFG, DEKA FAHRENHEIT, HT170ET
 - INSTALL (1) TEMPERATURE PROBE, 3.3 METERS
 - INSTALL (1) -48 VDC VERTIV XTE 601B, BATTERY ENCLOSURE
 - INSTALL (2) VERTIV CONVERTER 48VDC TO 58VDC 2000 WATTS
 - INSTALL (1) 4" MOUNTING PLINTH
 - INSTALL (12) ANTENNA RF PORT CAPS
 - INSTALL (48) HM-HM RF JUMPERS
 - INSTALL (9) DUAL MODE FIBER JUMPERS
 - INSTALL (6) RET CONTROL CABLES
 - INSTALL (9) 8AWG MINIMUM LI C JUMPERS
 - INSTALL (1) 6672 BBUS W/ (1) 6610 SITE CONTROLLER & (1) XMU03
 - INSTALL (6) SXK1255394/2 BACK TO BACK RRH MOUNT
 - INSTALL (6) L 2"x2"x1/4"x66" LONG
 - INSTALL (12) 1/2"x4-1/2" LG U-BOLT
 - INSTALL DOUBLE UP EXISTING TOP HANDRAIL ANGLE WITH L 2"x2"x1/4"x68" LONG (VERIFY LENGTH IN FIELD) ANGLE WITH 3/8"x1-1/4" LONG STITCH BOLTS AT 8" O.C.
 - INSTALL (2) FIBER STORAGE TRAYS
 - INSTALL (1) F-2132-FIBER72 FIBER DISTRIBUTION ENCLOSURE
 - INSTALL (2) PERFECT VISION PV-DC-PTPC-3030-24 STAND-OFF MOUNT
 - INSTALL (2) PERFECT VISION PV-DC-PTPC-3030-12 STAND-OFF MOUNT
 - INSTALL (1) SITEPRO1 PSA3 STAND-OFF MOUNT
 - INSTALL (1) SITEPRO1 P3096 2-7/8" SCH 40 x 96" LONG PIPE
 - INSTALL (2) SITEPRO1 P3120 3-1/2" SCH 40 x 120" LONG PIPES
 - INSTALL (1) SITEPRO1 SCP10W PIPE TO PIPE CLAMP SET

DRAWING SCALES ARE INTENDED FOR 11"x17" SIZE PRINTED MEDIA ONLY.

SUBMITTALS

REV	DATE	DESCRIPTION	BY
A	04/10/25	90% CD	RC
B	06/02/25	90% CD	BM
C	07/08/25	90% CD	SKM
D	08/08/25	90% CD	SSB
0	09/04/25	100% CD	BG

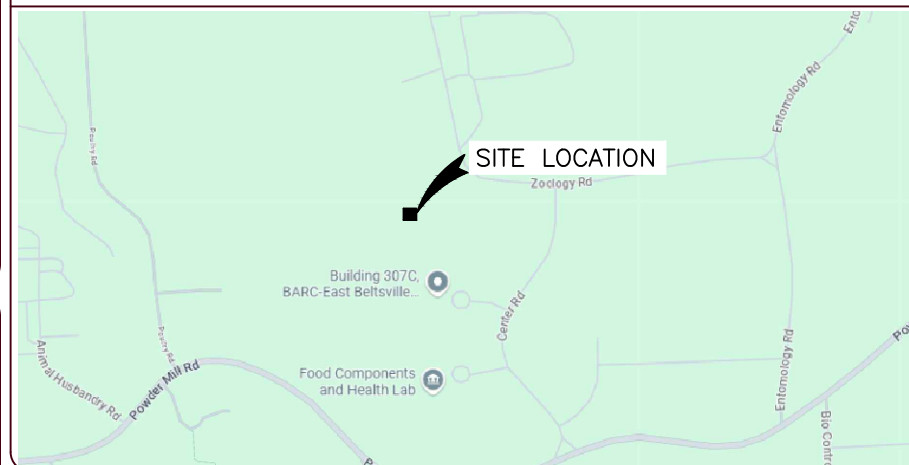
GENERAL NOTES

THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE; NO SANITARY SEWER SERVICE, PORTABLE WATER, OR TRASH DISPOSAL IS REQUIRED, NO COMMERCIAL SIGNAGE AND NO LANDSCAPING IS PROPOSED.

DO NOT SCALE DRAWINGS

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR A 11"x17" SET. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

LOCATION MAP



CODE COMPLIANCE

ALL WORK & MATERIALS SHALL BE PERFORMED & INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

- 2018 INTERNATIONAL BUILDING CODE
- 2018 INTERNATIONAL EXISTING BUILDING CODE
- 2018 NFPA 101 LIFE SAFETY CODE AND SUBTITLE 11
- 2018 NFPA 1 FIRE CODE
- 2020 MARYLAND FIRE PREVENTION CODE
- 2017 NFPA 70 (NEC)
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)
- TIA-222-H
- TIA 607
- TELCORDIA GR-1275

DRIVING DIRECTIONS

FROM 7150 STANDARD DRIVE HANOVER, MD 21076:
 HEAD SOUTHWEST TOWARD STANDARD DR, TURN LEFT TOWARD STANDARD DR, TURN RIGHT ONTO STANDARD DR, TURN LEFT ONTO PARKWAY DR, TURN RIGHT ONTO PARK CIR DR, TURN LEFT ONTO COCA COLA DR, USE THE LEFT 2 LANES TO TURN LEFT TO MERGE WITH MD-100 E TOWARD GLEN BURNIE, MERGE WITH MD-100 E, TAKE EXIT 9A FOR MD-295/BALT/WASH PKWY TOWARD WASHINGTON, MERGE WITH MD-295 S, CONTINUE ONTO BALTIMORE-WASHINGTON PKWY, TAKE THE EXIT TOWARD POWDER MILL RD, TURN RIGHT ONTO POWDER MILL RD, TURN RIGHT ONTO CENTER RD, TURN LEFT ONTO ZOOLOGY RD

APPROVALS

AT&T (CM): _____ DATE: _____
 SMARTLINK (PM): _____ DATE: _____
 RF ENGINEER: _____ DATE: _____
 SITE ACQUISITION: _____ DATE: _____
 LANDLORD: _____ DATE: _____

RFDS

RFDS ID: RFDS-40028 ISSUE DATE: 06/12/2024 REVISION: V1.0 UPDATED BY: sk6821
 DATE/TIME UPDATED: 11/05/2024

SHEET INDEX

SHEET #	DESCRIPTION	REVISION #
T-1	TITLE SHEET	0
C-1	COMPOUND PLAN	0
C-2	EQUIPMENT PLANS	0
C-3	TOWER ELEVATIONS	0
C-4	EXISTING & PROPOSED ANTENNA LAYOUTS	0
C-5	PROPOSED ANTENNA SCHEDULE	0
C-6 - C-12	EQUIPMENT DETAILS	0
E-1	DC SURGE SUPPRESSION WIRING DIAGRAM	0
E-2	POWER LOAD CALCULATIONS	0
RF-1	RF PLUMBING DIAGRAM	0
G-1	GROUNDING DETAILS	0
GN-1	GENERAL NOTES	0
ATTACHED	MOUNT MODIFICATION DRAWINGS	-

PROJECT TITLE

USID: 98501
 FA#: 10092075

BRANCHVILLE

6900 POWDER MILL ROAD
TAKOMA PARK, MD 20912

EXISTING 101'-0"
WATER TANK

SHEET DESCRIPTION

TITLE SHEET

SHEET NO.

T-1



TO OBTAIN LOCATION OF PARTICIPANTS UNDERGROUND FACILITIES BEFORE YOU DIG IN GEORGIA, CALL GEORGIA 811

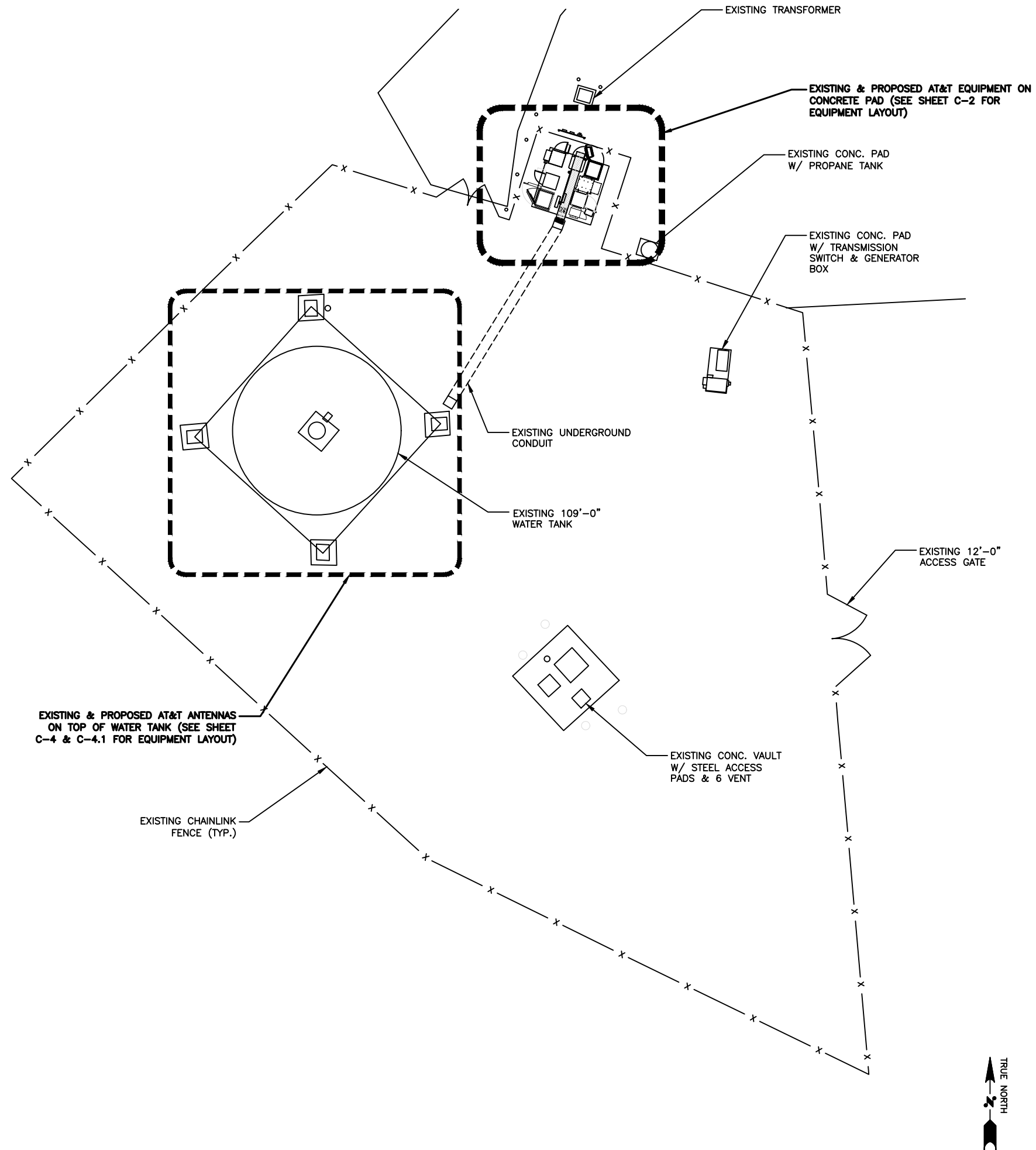
TOLL FREE: 1-800-282-7411 OR
www.georgia811.com

Know what's below.
Call before you dig.

GEORGIA STATUTE
REQUIRES MIN OF 2
WORKING DAYS NOTICE
BEFORE YOU EXCAVATE

GENERAL NOTES:

1. THE SUBCONTRACTOR SHALL GIVE ALL NOTICES AND REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES.
2. THE ARCHITECT/ENGINEER HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. THE SUBCONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID SUBCONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.
3. THE SUBCONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE AT&T REPRESENTATIVE OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF SUBCONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK. IN THE EVENT OF DISCREPANCIES, THE SUBCONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED IN WRITING OTHERWISE.
4. THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND ALL OTHER MATERIAL AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN.
5. THE SUBCONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS OR PERFORMING WORK TO FAMILIARIZE THEMSELVES WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
6. THE SUBCONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS.
7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S/VENDOR'S SPECIFICATIONS UNLESS INFORMED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
8. THE SUBCONTRACTOR SHALL PROVIDE A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE, UPDATED WITH THE LATEST REVISIONS AND ADDENDUMS OR CLARIFICATIONS, AVAILABLE FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.
9. THE SUBCONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE SUBCONTRACTOR 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.
10. THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEERING, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY.
11. THE SUBCONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVEMENTS, CURBING, ETC. DURING CONSTRUCTION. UPON COMPLETION OF WORK, THE SUBCONTRACTOR SHALL REPAIR ANY DAMAGE THE MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.
12. THE SUBCONTRACTOR SHALL MAINTAIN THE GENERAL WORK AREA AS CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST OR SMUDGES OF ANY NATURE.
13. THE SUBCONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
14. THE SUBCONTRACTOR SHALL NOTIFY THE AT&T REPRESENTATIVE WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DOCUMENTS. THE SUBCONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNTIL CONFLICT IS RESOLVED BY THE AT&T REPRESENTATIVE.
15. THE SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOBS.
16. CABLE ATTACHMENT TO FOLLOW AT&T CONSTRUCTION STANDARDS DOCUMENT # ATT-CEM-18006 TITLED "HOSE CLAMP & METAL SNAP-IN SUPPORTS PIM PROBLEM RESOLUTION".



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SUBMITTALS			
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A	04/10/25	90% CD	RC
B	06/02/25	90% CD	BM
C	07/08/25	90% CD	SKM
D	08/08/25	90% CD	SSB
0	09/04/25	100% CD	BG



I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No: 62222 Exp. Date: 1/7/2026

PROJECT TITLE

USID: 98501
FA#: 10092075

BRANCHVILLE

6900 POWDER MILL ROAD
TAKOMA PARK, MD 20912

EXISTING 101'-0"
WATER TANK

SHEET DESCRIPTION

COMPOUND PLAN

SHEET NO.

C-1

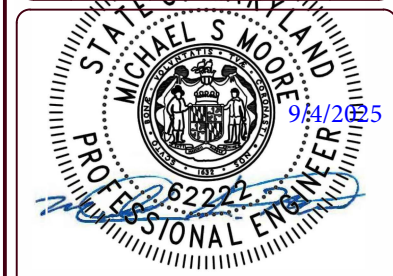
NOTES:
 1. ICE BRIDGE REPAIR WILL BE NEEDED DURING INSTALLATION OF NEW GROUND EQUIPMENT.

STANDARDS:
 PLEASE REFER TO ATT STD DOC ID ATT-TP-76416
 PLEASE REFER TO ATT STD DOC ID ATT-002-290-531
 PLEASE REFER TO ATT STD DOC ID ATT-002-290-701
 PLEASE REFER TO ATT STD DOC ID ATT-TP-76300
 PLEASE REFER TO ATT STD DOC ID ATT-CEM-18002
 PLEASE REFER TO ATT STD DOC ID ATT-CEM-23001



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0	09/04/25	100% CD	BG

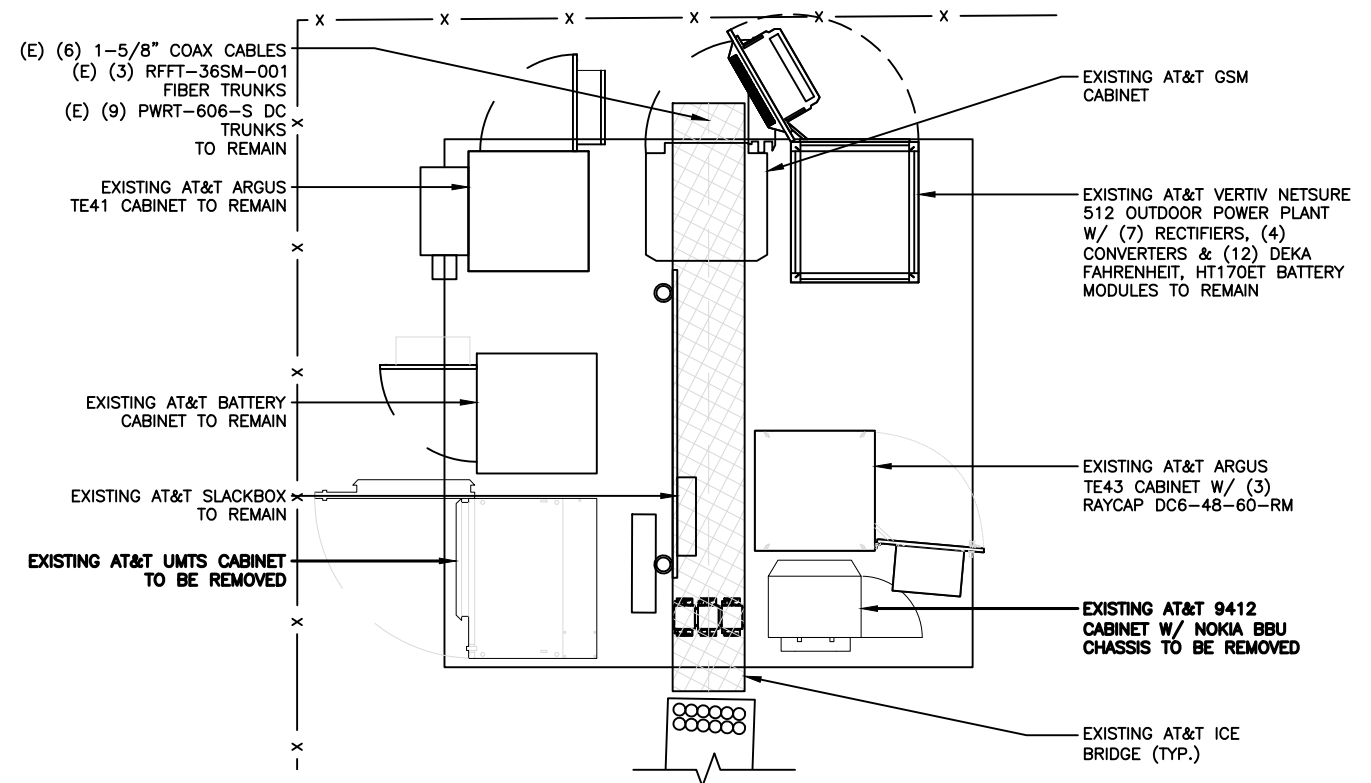


I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No: 62222 Exp. Date: 1/7/2026

PROJECT TITLE
 USID: 98501
 FA#: 10092075
BRANCHVILLE
 6900 POWDER MILL ROAD
 TAKOMA PARK, MD 20912
 EXISTING 101'-0"
 WATER TANK

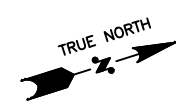
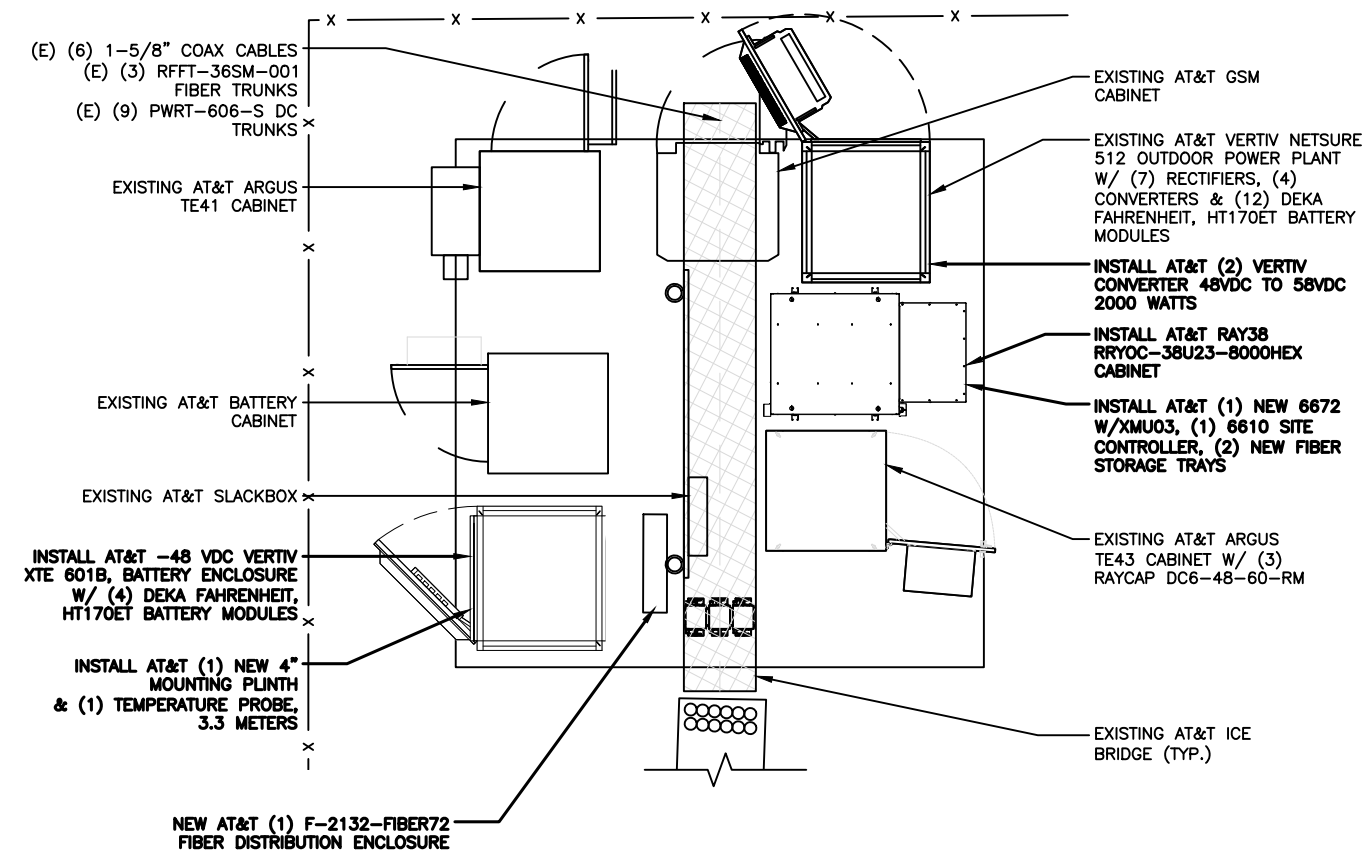
SHEET DESCRIPTION
 EQUIPMENT PLANS

SHEET NO.
 C-2



EXISTING EQUIPMENT LAYOUT

SCALE: 1/4"=1'-0" (11x17)
 (OR) 1/2"=1'-0" (22x34)



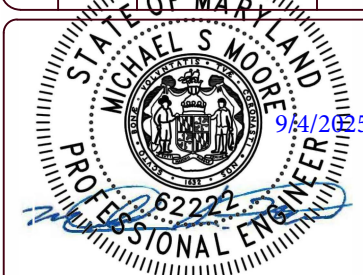
PROPOSED EQUIPMENT LAYOUT

SCALE: 1/4"=1'-0" (11x17)
 (OR) 1/2"=1'-0" (22x34)



DRAWING SCALES ARE INTENDED FOR 11"x17" SIZE PRINTED MEDIA ONLY.

SUBMITTALS			
REV	DATE	DESCRIPTION	BY
A	04/10/25	90% CD	RC
B	06/02/25	90% CD	BM
C	07/08/25	90% CD	SKM
D	08/08/25	90% CD	SSB
0	09/04/25	100% CD	BG



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PROJECT TITLE

USID: 98501
FA#: 10092075

BRANCHVILLE

6900 POWDER MILL ROAD
TAKOMA PARK, MD 20912

EXISTING 101'-0"
WATER TANK

SHEET DESCRIPTION

TOWER ELEVATIONS

SHEET NO.

C-3

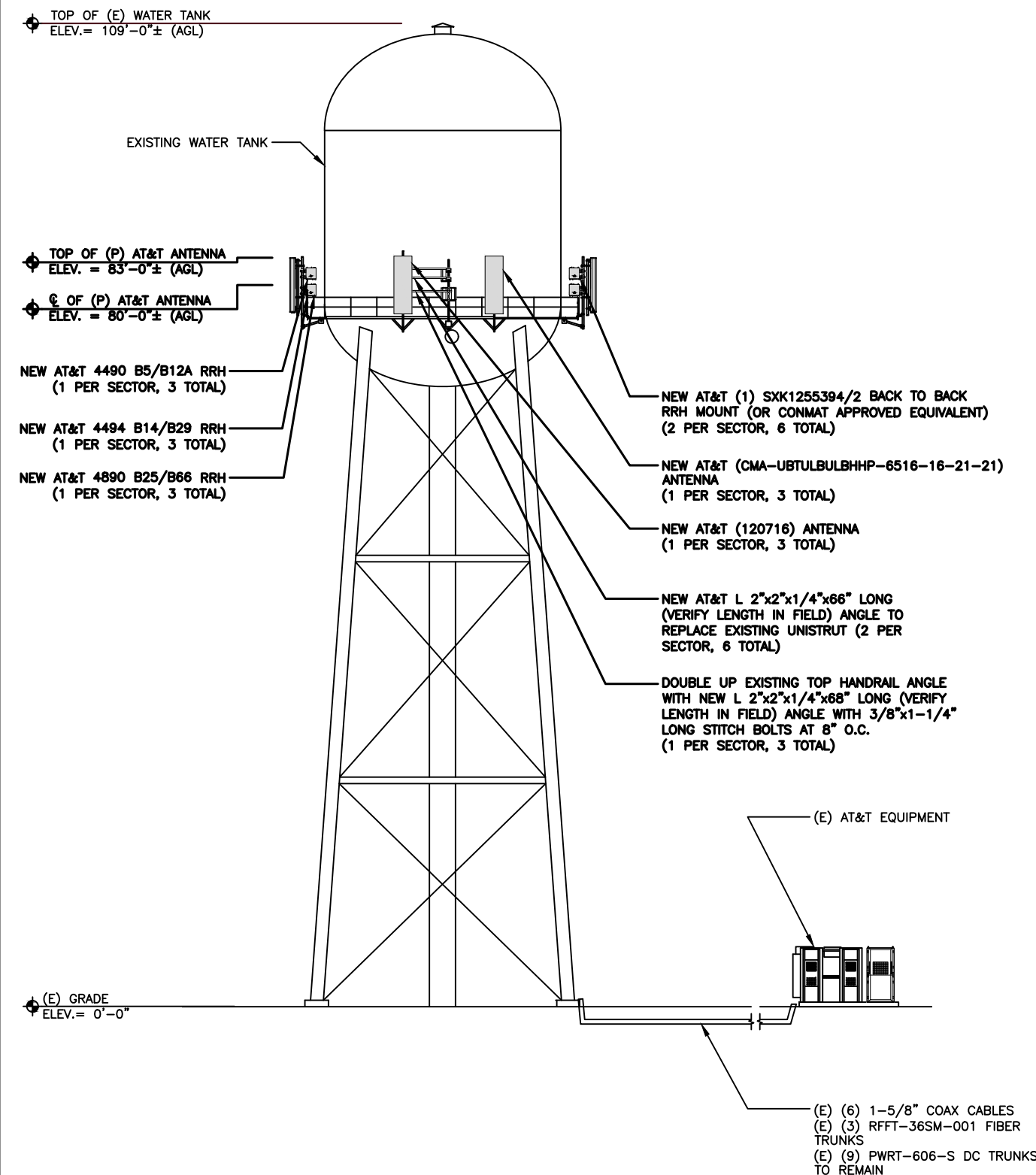
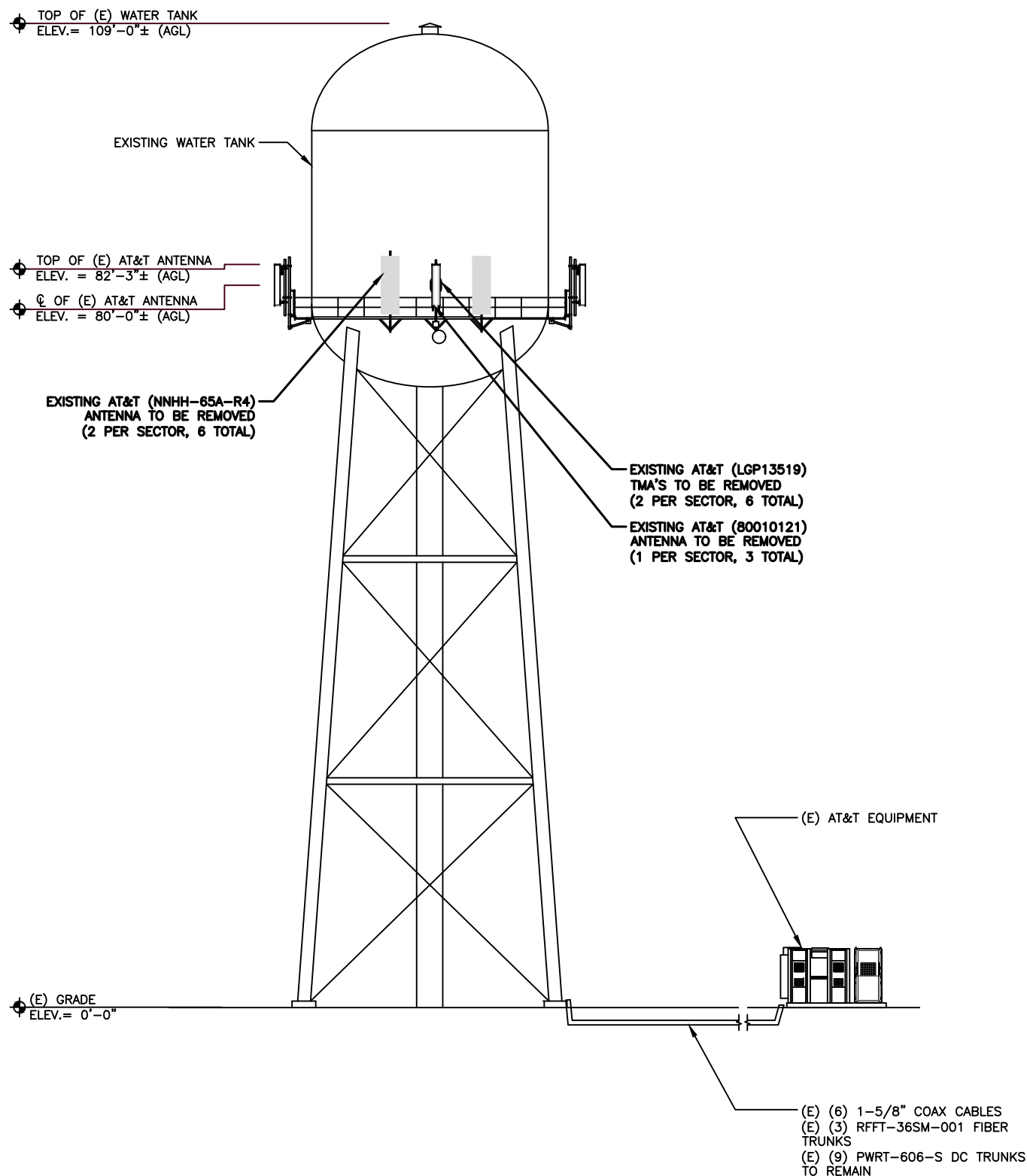
- STANDARDS:**
- PLEASE REFER TO THE ATT STD DOC ID ATT-002-290-531
 - PLEASE REFER TO THE ATT STD DOC ID ATT-790-202-083

- NOTES:**
- INSTALL (12) ANTENNA RF PORT CAPS
 - INSTALL (48) NEW HM-HM RF JUMPERS
 - INSTALL (9) NEW DUAL MODE FIBER JUMPERS
 - INSTALL (8) NEW RET CONTROL CABLES
 - INSTALL (9) NEW BAWG MINIMUM LI C JUMPERS

NOTES:

CONTRACTOR TO REFER TO PASSING MOUNT MODIFICATION REPORT AND DRAWINGS PREPARED BY TRYLON DATED 08/08/2025

CONTRACTOR TO REFER TO PASSING STRUCTURAL ANALYSIS REPORT PREPARED BY TRYLON DATED 07/08/2025





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SUBMITTALS			
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PROJECT TITLE

USID: 98501
FA#: 10092075

BRANCHVILLE

6900 POWDER MILL ROAD
TAKOMA PARK, MD 20912

EXISTING 101'-0"
WATER TANK

SHEET DESCRIPTION

EXISTING
ANTENNA LAYOUTS

SHEET NO.

C-4



SECTOR ALPHA
0° AZIMUTH

EXISTING UNISTRUT CHANNEL
(TYP.)

EXISTING WATER TANK
OUTER RING (TYP.)

EXISTING
WATER TANK

EXISTING AT&T (NNHH-65A-R4)
ANTENNA TO BE REMOVED
(2 PER SECTOR, 6 TOTAL)

EXISTING AT&T (4T4R B5/29 240W
AHBCB) RRH TO BE REMOVED
(1 PER SECTOR, 3 TOTAL)

EXISTING AT&T (4T4R B12/14 320W
AHLBA) RRH TO BE REMOVED
(1 PER SECTOR, 3 TOTAL)

EXISTING AT&T UNISTRUT FRAME TO
BE REMOVED
(1 PER SECTOR, 3 TOTAL)

EXISTING AT&T (4T4R B25/66 320W
AHFIB) RRH TO BE REMOVED
(1 PER SECTOR, 3 TOTAL)

EXISTING AT&T
MICROWAVE ANTENNA

EXISTING AT&T (LGP13519)
TMA'S TO BE REMOVED
(2 PER SECTOR, 6 TOTAL)

EXISTING AT&T (80010121)
ANTENNA TO BE REMOVED
(1 PER SECTOR, 3 TOTAL)

EXISTING AT&T DC9-48-60-24-8C-EV
RAYCAP TO REMAIN
(1 PER SECTOR, 3 TOTAL)

SECTOR GAMMA
235° AZIMUTH

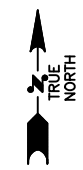
SECTOR BETA
110° AZIMUTH



- STANDARDS:**
- PLEASE REFER TO THE ATT STD DOC ID ATT-002-290-531
 - PLEASE REFER TO THE ATT STD DOC ID ATT-790-202-083

- NOTES:**
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 - INSTALL (48) NEW HM-HM RF JUMPERS
 - INSTALL (9) NEW DUAL MODE FIBER JUMPERS
 - INSTALL (6) NEW RET CONTROL CABLES
 - INSTALL (9) NEW 8AWG MINIMUM LI C JUMPERS

- NOTES:**
- CONTRACTOR TO REFER TO PASSING MOUNT MODIFICATION REPORT AND DRAWINGS PREPARED BY TRYLON DATED 08/08/2025
- CONTRACTOR TO REFER TO PASSING STRUCTURAL ANALYSIS REPORT PREPARED BY TRYLON DATED 07/08/2025



DRAWING SCALES ARE INTENDED FOR 11"x17" SIZE PRINTED MEDIA ONLY.

SUBMITTALS			
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C	07/08/25	90% CD	SKM
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O	09/04/25	100% CD	BG



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PROJECT TITLE

USID: 98501
FA#: 10092075

BRANCHVILLE

6900 POWDER MILL ROAD
TAKOMA PARK, MD 20912

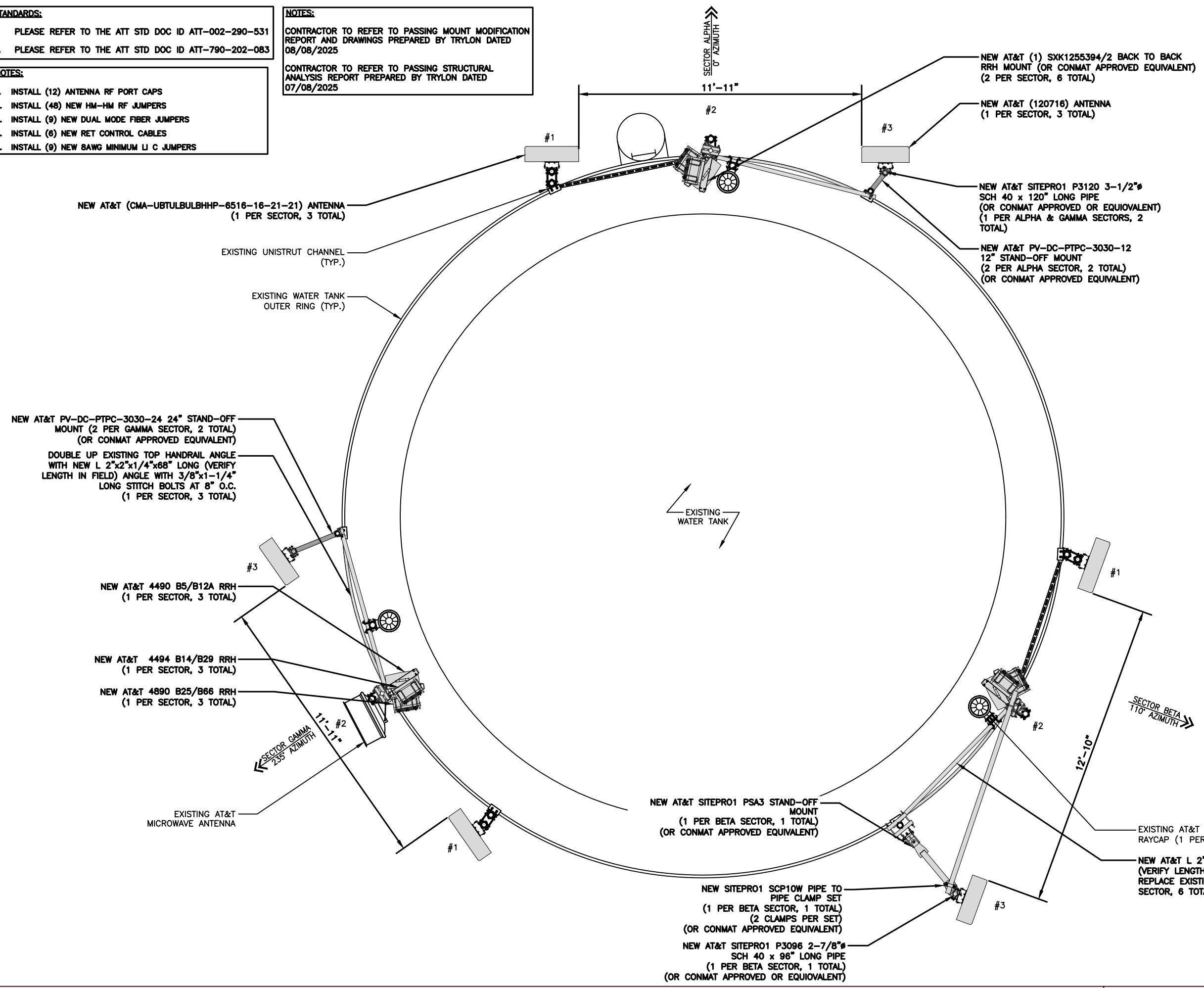
EXISTING 101'-0"
WATER TANK

SHEET DESCRIPTION

PROPOSED
ANTENNA LAYOUTS

SHEET NO.

C-4.1





RFDS ID: RFDS-40028

PROPOSED ANTENNA SCHEDULE

SECTOR	ANTENNA POSITION	ANTENNA MAKE/MODEL	RAD CENTER	AZIMUTH	EQUIPMENT MAKE/MODEL	FEEDLINE LENGTH	DC UNITS	FEEDLINE
ALPHA	#1	(N) CMA-UBTULBULBHHP-6516-16-21-21	80'-0"	0°	(N) ERICSSON 4490 B5/B12A	±106'	(E) (3) DC9-48-60-24-8C-EV	(E) (6) 1-5/8" COAX CABLES (E) (9) PWRT-606-S DC POWER TRUNKS (E) (3) RFFT-48SM-001 PAIR FIBER TUNKS
	#3	(N) 120716	80'-0"	0°	(N) ERICSSON 4494 B14/B29 (N) ERICSSON 4890 B25/B66	±106'		
BETA	#1	(N) CMA-UBTULBULBHHP-6516-16-21-21	80'-0"	110°	(N) ERICSSON 4490 B5/B12A	±106'		
	#3	(N) 120716	80'-0"	110°	(N) ERICSSON 4494 B14/B29 (N) ERICSSON 4890 B25/B66	±106'		
GAMMA	#1	(N) CMA-UBTULBULBHHP-6516-16-21-21	80'-0"	235°	(N) ERICSSON 4490 B5/B12A	±106'		
	#3	(N) 120716	80'-0"	235°	(N) ERICSSON 4494 B14/B29 (N) ERICSSON 4890 B25/B66	±106'		

NOTE:
ADD 2ND CPRI CARD AND 2ND FIBER PAIR TO ALL PROPOSED 5G CAPABLE RRU'S AS OUTLINED IN THE FINAL OF THE RFDS.

DRAWING SCALES ARE INTENDED FOR 11"x17" SIZE PRINTED MEDIA ONLY.

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0	09/04/25	100% CD	BG



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PROJECT TITLE

USID: 98501
FA#: 10092075

BRANCHVILLE

6900 POWDER MILL ROAD
TAKOMA PARK, MD 20912

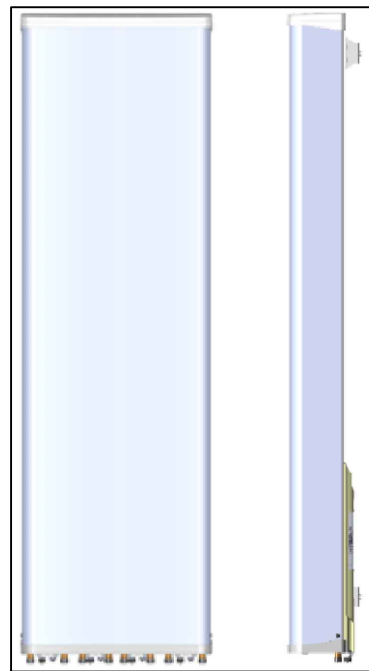
EXISTING 101'-0"
WATER TANK

SHEET DESCRIPTION

PROPOSED ANTENNA SCHEDULE

SHEET NO.

C-5



Mechanical parameters:

Mechanical specification:	
Connectors	8 x 4.3 -10 female
Connector position	Bottom
Lightning protection	DC grounded
Height mm (inch)	1840 (72.4)
Width mm (inch)	690 (27.2)
Depth mm (inch)	196 (7.7)
Antenna weight kg (lb)	36 (78)
Wind load at 42 m/s (94 mph)	
Frontal N (lbf)	
Lateral N (lbf)	
Survival wind speed m/s (mph)	67
EPA m ² (inch ²)	
Colour radome	
Radome material	Light Grey, RAL 7035 ASA
Mounting hardware:	
Mounting bracket	2
Bracket weight (complete) kg (lb)	5 (11)
Pole diameter mm (inch)	45 (1.8) - 120 (4.7)
Mechanical tilt range °	0 - 5
Packing data	
Box size mm (inch)	
Box weight kg (lb)	
Maximum number of boxes per pallet	

1 CELLMAX CMA-UBTULBULBHP/6516/16/21/21
C-6 SCALE: NTS (ANT.52963)

Antenna type
12016x
CMA-UBDHHH/6521/E1-10

Port antenna	Unit	Y1	Y2	Y3
Frequency range	MHz	185 - 200	185 - 200	185 - 200
Gain	dBi	6	6	6
SWR		1.5	1.5	1.5
LOS range		1 - 10	1 - 10	1 - 10

Product architecture

Antenna type
12016x
CMA-UBDHHH/6521/E1-10

Mechanical parameters:

Mechanical specification:	
Connectors	8 x 4.3 -10 female
Connector position	Bottom
Lightning protection	DC grounded
Height mm (inch)	1840 (72.4)
Width mm (inch)	690 (27.2)
Depth mm (inch)	196 (7.7)
Antenna weight kg (lb)	36 (78)
Wind load at 42 m/s (94 mph)	
Frontal N (lbf)	
Lateral N (lbf)	
Survival wind speed m/s (mph)	67
EPA m ² (inch ²)	
Colour radome	
Radome material	Light Grey, RAL 7035 ASA
Mounting hardware:	
Mounting bracket	2
Bracket weight (complete) kg (lb)	5 (11)
Pole diameter mm (inch)	45 (1.8) - 120 (4.7)
Mechanical tilt range °	0 - 5
Packing data	
Box size mm (inch)	2070 x 440 x 190 (81.5 x 17.3 x 7.5)
Box weight kg (lb)	35.3 (78.3)
Maximum number of boxes per pallet	14

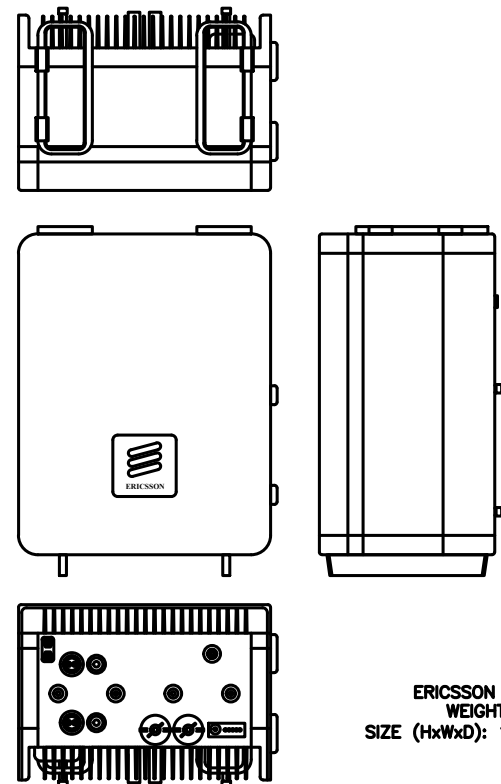
RET info
The RET actuator is ASG compatible and signals Single Antenna RET Device type DUT (Ret) in ASG protocol layer 2 as described in SDP 1020-402 (a.s., TYPE 1).
One RET actuator per antenna column, with individual ASG connectors in and out.
Type CMA-RET-02
RET spare part order number: 10206.

Ordering information:
Product number Product description
12016 CMA-UBDHHH/6521/E1-10/ME including standard HR mount
12016 CMA-UBDHHH/6521/E1-10/RE including standard HR mount

2 CELLMAX 120716 DETAIL
C-6 SCALE: NTS



3 BATTERY PROBE LOCATION DETAIL (1 STRING)
C-6 SCALE: NTS



ERICSSON - RADIO 4490
WEIGHT: 20.8 LBS
SIZE (HxWxD): 15.12x17.48x6.77 IN.

4 ERICSSON 4490 B5/B12A DETAIL
C-6 SCALE: NTS (CEQ.56841) & (CEQ.53714)

Radio 4494 44B14 20B29

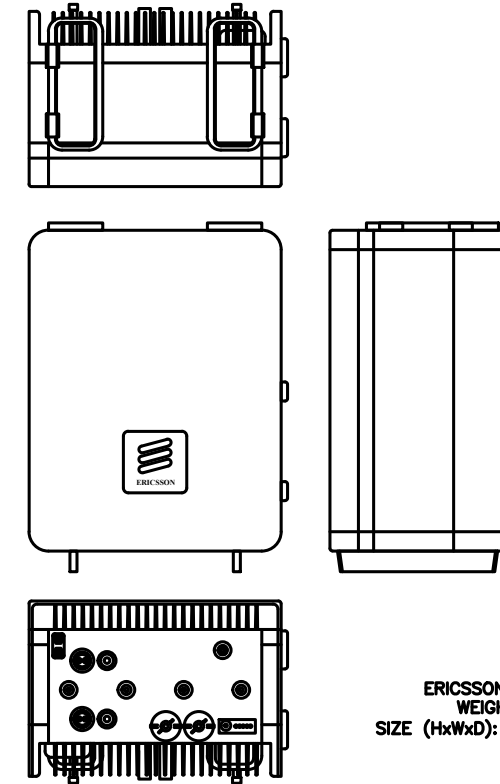
- Dual band R142/ZT
- PA power
 - B14: 4x48W
 - B29: 2x48W
- B14: L1, L3, N3, E2S18, NB-10T (B, GB & SA)
- B29: L1, L5, L18
- CPRI 2x2.5/4.9/9.8/18.1/24.3 Gbps
- eCPRI 2x18.3/25.6 Gbps
- Front area: 384mm x 444mm
- Depth and weight: 43mm (24 liter) & 26kg
- -48VDC 3-wire or 2-wire (single DC connector)
- AISG TMA & RET support via RS485 or RF connectors
- 2 external alarm
- Optional fan for increased site flexibility
- IP65, -40 to +55 C
- Power consumption: 1.5% reduction compared to 478814 + 2012629 for the same configuration



Preliminary

PRA target, June 2024

5 ERICSSON 4494 B14/29 DETAIL
C-6 SCALE: NTS (CEQ.58512) & (CEQ.53714)



ERICSSON - RADIO 4890
WEIGHT: 20.8 LBS
SIZE (HxWxD): 15.12x17.48x6.93 IN.

6 ERICSSON 4890 B25/B66 DETAIL
C-6 SCALE: NTS (CEQ.57137) & (CEQ.53714)



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SUBMITTALS			
REV	DATE	DESCRIPTION	BY
A	04/10/25	90% CD	RC
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PROJECT TITLE

USID: 98501
FA#: 10092075

BRANCHVILLE

6900 POWDER MILL ROAD
TAKOMA PARK, MD 20912

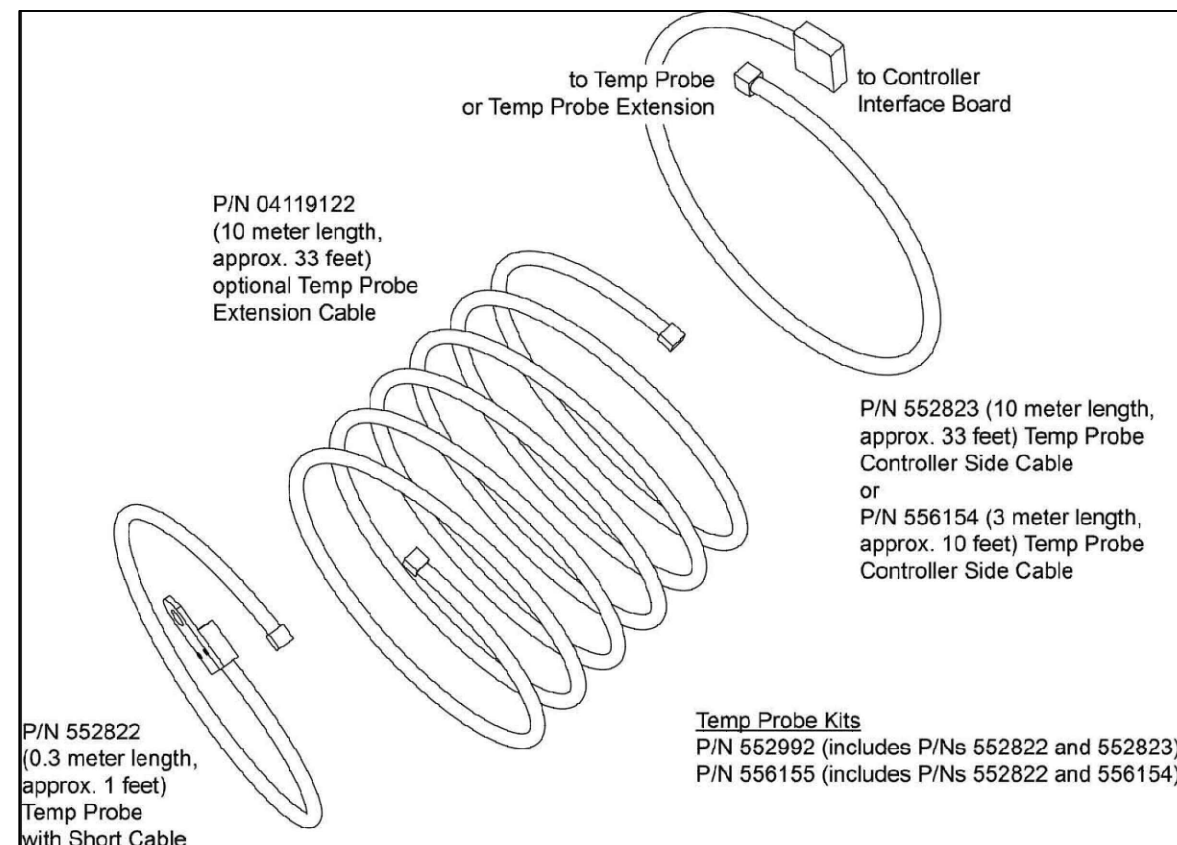
EXISTING 101'-0"
WATER TANK

SHEET DESCRIPTION

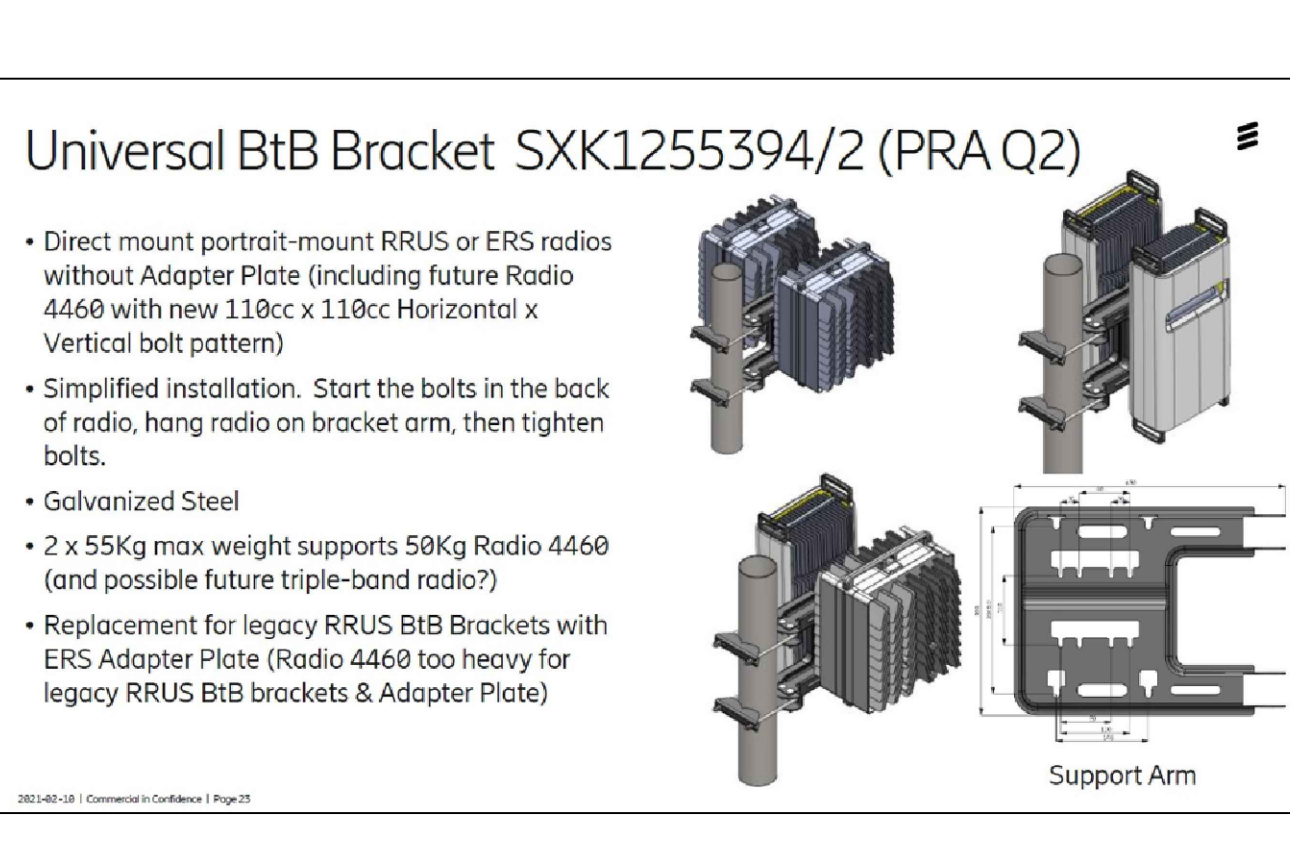
EQUIPMENT DETAILS

SHEET NO.

C-6



1 C-7 TEMPERATURE PROBE, 3.3 METERS SCALE: NTS (NEQ.15986)



2 C-7 ERICSSON SXX1255394/2 BACK TO BACK RRH BRACKET SCALE: NTS (CEQ.53714)

SOME LIKE IT HOT

HT170ET

- **Hollo®** Additive reduces float current up to 75% enhancing high temperature life
- **TH1™** Plastic specifically formulated heat resistant plastic case and cover optimizes compression
- **Microcat®** Catalyst lowers float current, mitigates thermal buildup and cell dropout
- **Exclusive IPF™** Technology optimizes power capacity, cell consistency, and long-term reliability
- **TempX™** Alloy inhibits corrosion under the highest temperature extremes
- **Advanced AGM** technology for superior power
- **Puncture resistant** micro-porous glass mat separator extend life
- **Front access** design for easy installation and maintenance
- **Reinforced case** resists bulging and meets safety requirements (UL94 V-0)
- **Case & cover** heat sealed and 100% tested to prevent leaks
- **Epoxy-sealed** posts eliminate leaks
- **Flame arresting**, low pressure, self-sealing valves are 100% factory tested
- **Computer-aided** design and manufacturing control processes and standards to ensure quality products
- **All batteries** meet or exceed IEEE recommended practices
- **Battery design** and construction meet UL recognition requirements

SPECIFICATIONS

Nominal Voltage: 12-Volts
 Rating: 164 Ampere-Hours @ 8hr. rate to 175 V.P.C.
 Positive Plate: >98% Pure lead with tin-calcium alloy
 Negative Plate: Pure lead, calcium alloy
 Post Seal: Epoxy-sealed
 Terminals: Front access, 1/4" - 20 threaded insert
 Case/Cover: Flame-retardant, TH1™ - UL 94 V-0 (39% L.O.I.)

DISCHARGE RATE IN AMPS @ 77°F (25°C)

Watts per Cell (V.P.C.)	1 HR.	2 HR.	3 HR.	4 HR.	5 HR.	8 HR.	12 HR.	20 HR.	24 HR.
1.75	108	64.4	60.4	56.5	50.5	30.4	20.5	14.4	9.1
1.86	103	62.5	58.4	54.5	48.5	30.0	20.2	14.2	9.0
1.85	94.1	59.1	55.1	51.2	45.2	28.9	19.5	13.8	8.7
1.88	87.5	55.9	51.9	47.9	41.9	27.6	18.7	13.2	8.4
1.98	82.5	53.2	49.2	45.2	39.2	26.5	18.0	12.7	8.0

3 C-7 DEKA FAHRENHEIT, HT170ET BATTERY MODULES_DETAIL SCALE: NTS (NEQ.20771)

INSTALLATION AND OPERATING INSTRUCTIONS
<http://www.eastpenn.com/content/uploads/Fahrenheit-10-Manual-2100.pdf>

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

EASTPENN
 East Penn Manufacturing Co. | 1000 N. 10th St. | P.O. Box 1000 | P.O. Box 1000 | P.O. Box 1000

Vertiv™ eSure™ Converter

C48/58-2000P3

Key Benefits

- Converts 48 to 58 VDC, 2000 W Peak / 1600 W Average
- Reduces power consumption and lower operating costs with 95% peak efficiency
- Easily add capacity with hot-pluggable, non-replaceable components
- Ensure high availability with wide input voltage range from 40 VDC to 58 VDC
- Power your 5G BBUs in the harsh environments with operation from -40°C to +60°C
- Enjoy peace of mind with high quality UL recognized design

Description

The Vertiv™ eSure™ C48/58-2000P3 high-efficiency converter is designed to operate from a nominal 48 VDC source to provide nominal 48 VDC load power, which is adjustable to application needs up to 2000 W peak, 1600 W 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 (RRH) 58 VDC is regulated over a wide input range to minimize voltage drop in the cable feeding the RRH and assure operation to end of battery discharge. Where 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™ NetWare™ controller.

Technical Specifications

DC Input
 Model: C48/58-2000P3
 Voltage: 41 VDC to 58 VDC, 45 VDC nominal
 Maximum Current: 55 A

DC Output
 Voltage: 48 VDC to 58 VDC
 Maximum Power: 2000 W peak, 1600 W average (at 48V, 100% duty cycle)
 Maximum Current: 55 A at 2000 W peak (see Figure 1), 200 A at 1000 W average, 225 A at 50% W average, 88 A at 50 VDC

Control and Monitoring
 Alarm and signaling: Alarm and status reported via CAN bus to system controller
 Control: Remote Control
 Visual Indicators: Power LED Array, Red LED Array, Flashing Red LED Indicators

Environmental
 Operating Temperature: -40°C to +60°C (at 50% Load) (see Figure 2)
 Storage Temperature: -40°C to +60°C (at 50% Load)
 Relative Humidity: 0 to 100%
 Altitude: 2000 ft (609.6 m) MSL max

Standard Compliance
 Safety: UL 1574, UL 1575, UL 1576, UL 1577
 EMC: FCC Class B Part 15, Class 2, Class 3, Class 4, Class 5, Class 6, Class 7, Class 8, Class 9, Class 10, Class 11, Class 12, Class 13, Class 14, Class 15, Class 16, Class 17, Class 18, Class 19, Class 20, Class 21, Class 22, Class 23, Class 24, Class 25, Class 26, Class 27, Class 28, Class 29, Class 30, Class 31, Class 32, Class 33, Class 34, Class 35, Class 36, Class 37, Class 38, Class 39, Class 40, Class 41, Class 42, Class 43, Class 44, Class 45, Class 46, Class 47, Class 48, Class 49, Class 50, Class 51, Class 52, Class 53, Class 54, Class 55, Class 56, Class 57, Class 58, Class 59, Class 60, Class 61, Class 62, Class 63, Class 64, Class 65, Class 66, Class 67, Class 68, Class 69, Class 70, Class 71, Class 72, Class 73, Class 74, Class 75, Class 76, Class 77, Class 78, Class 79, Class 80, Class 81, Class 82, Class 83, Class 84, Class 85, Class 86, Class 87, Class 88, Class 89, Class 90, Class 91, Class 92, Class 93, Class 94, Class 95, Class 96, Class 97, Class 98, Class 99, Class 100

Ordering Information

Part Number: C48/58-2000P3
 Description: 48V to 58V, 2000 W peak / 1600 W average

Figures

C48/58-2000P3 Efficiency Curve at 58V DC Nominal Input

4 C-7 CONVERTER DETAIL (NEQ.53011) SCALE: NTS



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SUBMITTALS			
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USID: 98501
 FA#: 10092075

BRANCHVILLE

6900 POWDER MILL ROAD
 TAKOMA PARK, MD 20912

EXISTING 101'-0"
 WATER TANK


SHEET DESCRIPTION

EQUIPMENT DETAILS

SHEET NO.

C-7

RAY38 Cabinet for AT&T RRYOC-38U23-8000HEX




DESCRIPTION
Raycap cabinet systems offer flexible equipment protection to deliver maximum reliability for mission-critical systems. The cabinet systems are modular in design to enable easy installation and flexible operation for active business equipment.

Specifications
Model Name: RRYOC-38U23-8000HEX
QED Number: CEQ.59205
Completion: 200A DC main, three power distribution units supporting up to two standard 400W large protection, 100W breaker module for field.
Electrical Information:
Input Voltage: 48Vdc to 57Vdc
Power Distribution: 200A
Heat Exchanger: Heat Exchanger, 200A cooling, 200A cooling
LED Lights: Heat Exchanger, 100W
Accessories:
Alarm: 200A DC main, 200A DC main, 200A DC main
DC Break: 100A DC main, 100A DC main, 100A DC main
DC Power Distribution Unit: 100A DC main, 100A DC main, 100A DC main
Mounting: 100A DC main, 100A DC main, 100A DC main
Mechanical:
Construction: Aluminum alloy (2024-T3/2024-T3)
External Dimensions (H x W x D): 80" x 30" x 30" (without coating), 80" x 30" x 48" (with coating)
Weight: 100 lbs (without coating), 100 lbs (with coating)
Finish: Powder coated (see table)
Color: RAYCAP 200A DC main, 200A DC main, 200A DC main
Door: 200A DC main, 200A DC main, 200A DC main
Locking Mechanism: 4-point locking system for both doors, pad and lock, 200A DC main, 200A DC main
Clearance: 200A DC main, 200A DC main, 200A DC main
Accessories:
Power Cables: 200A DC main, 200A DC main, 200A DC main
Operating Temperature Range: 40°F to 140°F (4°C to 50°C) with solar radiation
Power: 200A DC main, 200A DC main, 200A DC main
Accessories:
Interior Lights: 200A DC main, 200A DC main, 200A DC main
Door Locks: 200A DC main, 200A DC main, 200A DC main
Clearance: 200A DC main, 200A DC main, 200A DC main
HTV Temperature Sensors: 200A DC main, 200A DC main, 200A DC main
Location: 200A DC main, 200A DC main, 200A DC main
Units: 200A DC main, 200A DC main, 200A DC main
Lifting Eyelets: 200A DC main, 200A DC main, 200A DC main
Fiber Tray: 200A DC main, 200A DC main, 200A DC main
Fiber Management Tray: 200A DC main, 200A DC main, 200A DC main
DC Power Distribution Unit: 200A DC main, 200A DC main, 200A DC main
Locks: 200A DC main, 200A DC main, 200A DC main
Document and Logbook Storage: 200A DC main, 200A DC main, 200A DC main
Release Pin: 200A DC main, 200A DC main, 200A DC main
Accessories:
200A DC main: 200A DC main, 200A DC main, 200A DC main
Case management (10 items, left and right side): 200A DC main, 200A DC main, 200A DC main
3RU fiber management tray: 200A DC main, 200A DC main, 200A DC main
Fiber trayway (full height, left side): 200A DC main, 200A DC main, 200A DC main
Multiple entry options: 200A DC main, 200A DC main, 200A DC main
Document and log book storage, logbook table (front door): 200A DC main, 200A DC main, 200A DC main

1 RAY38 RRYOC-38U23-8000HEX CABINET DETAIL
C-8 SCALE: NTS (CEQ.59205)

Dual Cross Pipe to Pipe Clamp



PV-DC-PTPC-2020-12

PART NUMBER	COMPATIBLE PIPE OD	STANDOFF	AT&T ITEM ID
PV-DC-PTPC-2020-6	2-3/8 in - 2-3/8 in	6 in	ANT.58922
PV-DC-PTPC-2020-12	2-3/8 in - 2-3/8 in	12 in	ANT.58935
PV-DC-PTPC-2020-18	2-3/8 in - 2-3/8 in	18 in	ANT.58936
PV-DC-PTPC-2020-24	2-3/8 in - 2-3/8 in	24 in	ANT.58869
PV-DC-PTPC-2025-6	2-3/8 in - 2-7/8 in	6 in	ANT.58856
PV-DC-PTPC-2025-12	2-3/8 in - 2-7/8 in	12 in	ANT.58811
PV-DC-PTPC-2025-18	2-3/8 in - 2-7/8 in	18 in	ANT.58822
PV-DC-PTPC-2025-24	2-3/8 in - 2-7/8 in	24 in	ANT.58800
PV-DC-PTPC-2030-6	2-3/8 in - 3-1/2 in	6 in	ANT.58876
PV-DC-PTPC-2030-12	2-3/8 in - 3-1/2 in	12 in	ANT.58881
PV-DC-PTPC-2030-18	2-3/8 in - 3-1/2 in	18 in	ANT.58875
PV-DC-PTPC-2030-24	2-3/8 in - 3-1/2 in	24 in	ANT.58848
PV-DC-PTPC-2525-6	2-7/8 in - 2-7/8 in	6 in	ANT.58911
PV-DC-PTPC-2525-12	2-7/8 in - 2-7/8 in	12 in	ANT.58823
PV-DC-PTPC-2525-18	2-7/8 in - 2-7/8 in	18 in	ANT.58845
PV-DC-PTPC-2525-24	2-7/8 in - 2-7/8 in	24 in	ANT.58873
PV-DC-PTPC-2530-6	2-7/8 in - 3-1/2 in	6 in	ANT.58889
PV-DC-PTPC-2530-12	2-7/8 in - 3-1/2 in	12 in	ANT.58923
PV-DC-PTPC-2530-18	2-7/8 in - 3-1/2 in	18 in	ANT.58865
PV-DC-PTPC-2530-24	2-7/8 in - 3-1/2 in	24 in	ANT.58918
PV-DC-PTPC-3030-6	3-1/2 in - 3-1/2 in	6 in	ANT.58897
PV-DC-PTPC-3030-12	3-1/2 in - 3-1/2 in	12 in	ANT.58853
PV-DC-PTPC-3030-18	3-1/2 in - 3-1/2 in	18 in	ANT.58917
PV-DC-PTPC-3030-24	3-1/2 in - 3-1/2 in	24 in	ANT.58887

2 PERFECT VISION MOUNT DETAIL (OR CONMAT APPROVED EQUIVALENT)
C-8 SCALE: NTS (CEQ.TBD)

VERTIV™ XTE 601B SERIES
Battery Enclosures

KEY FEATURES

- Built-in split-string capability allows division of battery power output across multiple cabinets.
- Equipped with four battery shelves (60V) or five battery shelves (72V).
- Each shelf houses VRLA batteries, and can be field-adapted for Ni-Cd.
- Thermoelectric temperature control units offer cooling and heating of VRLA batteries.
- Bottom rear cable entry.
- Telcorda GR-487 certified, Seismic Zone-4 rated and UL Listed.

Combining industry recognized environmental protection and energy efficient temperature management, the reliable Vertiv™ XTE 601B Series delivers large-scale battery backup to macro cell sites.

Description
The Vertiv XTE 601B Series are available in both 60" and 72" heights, and are designed to accept VRLA batteries (similar models accept Ni-Cd batteries). Enclosures are equipped with thermoelectric cooling and heating, to extend battery life and capacity, and split-string capability allows the battery power output to be divided among multiple supported cabinets. A 10-position ground bar and T2-pair Phoenix terminal alarm block are included with each cabinet.

Application
Vertiv XTE 601B Series is designed to provide large-scale battery backup for networking equipment at macro cell sites. The system can be configured for use with +24 VDC and/or -48 VDC battery strings and features thermoelectric cooling/heating to extend battery life and maximize capacity.

Technical Specifications

EQUIPMENT
Height: 60" or 72"
Weight: 1000 lbs (60") / 1200 lbs (72")
Temperature: 40°F to 140°F (4°C to 50°C)
Power: 200A DC main, 200A DC main, 200A DC main

SAFETY
Compliance: UL 60950 and Seismic Zone 4 compliant

Ordering Information

PART NUMBER | **DESCRIPTION**

RAY38 RRYOC-38U23-8000HEX
 48 VDC Vertiv XTE 601B Cabinet
 H x W x D: 80.0 in x 30.0 in x 48.0 in (2032 mm x 762 mm x 1219 mm)
 Equipped with:
 (3) battery shelves, max capacity (60) -48 V battery strings (VRLA batteries)
 Thermoelectric cooling/heating

RAY38 RRYOC-38U23-8000HEX
 48 VDC Vertiv XTE 601B Cabinet
 H x W x D: 80.0 in x 30.0 in x 48.0 in (2032 mm x 762 mm x 1219 mm)
 Equipped with:
 (4) battery shelves, max capacity (60) -48 V battery strings (VRLA batteries)
 Thermoelectric cooling/heating

Accessories

PART NUMBER | **DESCRIPTION**

RAY38 RRYOC-38U23-8000HEX
 100cm 60" mounting plate

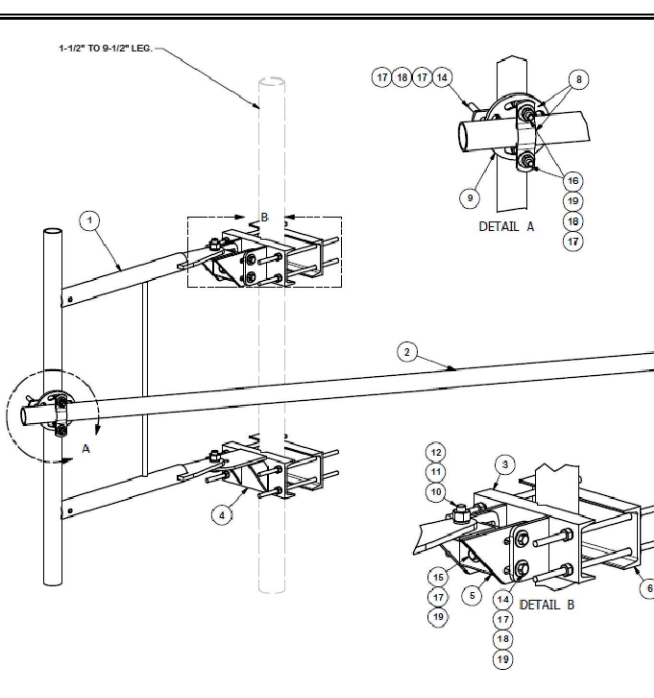
RAY38 RRYOC-38U23-8000HEX
 NA
 Value-Regulated Lead-Acid (VRLA) batteries in 10V Ah - 500 Ah capacities
 Consult Vertiv Engineering for specific models

NOTE: Batteries are not supplied by Vertiv.

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3 48 VDC VERTIV XTE 601B, BATTERY ENCLOSURE DETAIL
C-8 SCALE: NTS (NEQ.15918)

1-1/2" TO 9-1/2" LEG.



DETAIL A

DETAIL B

PARTS LIST

ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.	
1	1	X-192999	3" STANDOFF PIVOT ARM		43.65	43.65	
2	1	P2126	2-3/8" OD X 128" SCH 40 GALVANIZED PIPE	126 in	40.75	40.75	
3	1	X-SOCAMDS	DIAGONAL SLOT WELDMENT FOR BCAM		13.57	13.57	
4	1	X-SHRFP	MULTI-HOLE TAPER PLATE WELDMENT		13.17	13.17	
5	1	X-SOCAMSS	STRAIGHT SLOT WELDMENT FOR BCAM		8.43	8.43	
6	2	X-L-CBB	LEG CONNECTION BACKING BRACKET	12 in	7.56	15.14	
7	1	X-SOCAMSP	POSITIONING PLATE WELDMENT FOR BCAM		1.43	1.43	
8	4	X-100064	CLAMP (4" V-CLAMP) GALVANIZED		0.91	3.65	
9	2	X-127594	FLAT DISK CLAMP PLATE 4" CENTERS (GALV.)		2.51	5.01	
10	2	A34214	3/4" x 1/2" x 1/4" A326 BOLT	2 1/4 in	0.47	0.96	
11	2	G34LW	3/4" HDG LOCKWASHER		0.04	0.09	
12	2	G34NUT	3/4" HDG HEAVY 2H HEX NUT		0.21	0.42	
13	8	G12R-16	1/2" x 1 1/2" GALV. THREADED ROD		0.84	6.69	
14	8	G1206S	1/2" x 6-1/2" HDG HEX BOLT GRS FULL THREAD	6 1/2 in	0.41	2.46	
15	1	G1206S	1/2" x 4" HDG HEX BOLT GRS FULL THREAD	4 1/2 in	0.30	0.30	
16	4	G120M	1/2" x 4" HDG HEX BOLT GRS FULL THREAD	4 in	0.27	1.08	
17	13	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	0.44	
18	26	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	0.36	
19	27	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	1.93	
						TOTAL WT. #	169.12

ANGLE CALIBRATING PROCEDURE:

- MEASURE TOWER TAPER AND PICK LOWER BRACKET HOLE.
 - HOLE A = -2.5" TO 2.5"
 - HOLE B = 1.7" TO 6"
- USE CALIBRATING BOLT TO ADJUST FRAME TO DESIRED TAPER.
- TORQUE LOCKING BOLTS TO 75 ft.-lbs.
- ADVANCE LOCKING NUT TO POSITIONING PLATE, THEN TIGHTEN.

TOLERANCE NOTES
 TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
 SAWS, SHEARS AND GAS CUT EDGES: ±0.007"
 DRILLED AND GAS CUT HOLES: ±0.007"
 LASER CUT EDGES AND HOLES: ±0.010"
 NO CORNING OF HOLES
 SENDS ARE ± 1/2 DEGREE
 ALL OTHER MACHINING: ±0.0007"

REVISION HISTORY

REV	DESCRIPTION	DATE	BY	CHK
B	CHANGED SIDEARM LEG CONNECTION	6/8/2017	CEK	4749
A	P1126 CHANGED TO P1128	11/13/2015	CEK	4749

DESCRIPTION 3" SIDE ARM (PSA3)

DATE 8/31/2010
CLASS SUB CUSTOMER
DESIGNER CEK
CHECKED BY BMC
DATE 7/6/2017

LOCATION: New York, NY
 Atlanta, GA
 Los Angeles, CA
 Plymouth, MI
 Dallas, TX

PSA3

4 SITEPRO1 PSA3 DETAIL
C-8 SCALE: NTS (CEQ.TBD)



DRAWING SCALES ARE INTENDED FOR 11"x17" SIZE PRINTED MEDIA ONLY.

SUBMITTALS

REV	DATE	DESCRIPTION	BY
A	04/10/25	90% CD	RC
B	06/02/25	90% CD	BM
C	07/08/25	90% CD	SKM
D	08/08/25	90% CD	SSB
O	09/04/25	100% CD	BG



I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No: 62222 Exp. Date: 1/7/2026

PROJECT TITLE

USID: 98501
FA#: 10092075

BRANCHVILLE

6900 POWDER MILL ROAD
TAKOMA PARK, MD 20912

EXISTING 101'-0"
WATER TANK

SHEET DESCRIPTION

EQUIPMENT DETAILS

SHEET NO.

C-8



Router 6672

The Router 6672 is a high capacity aggregation router, designed to enable high quality network service delivery while at the same time lowering operating costs through features, such as a completely filter-less mechanical design. It provides a high density of 10G interfaces with right cost points in a compact and hardened 1RU form factor enabling lower rental costs and lower OPEX. It supports VPN services over IP/MPLS networks, service provider SDN, service exposure using NETCONF/YANG, extensive quality of service and precise synchronization features.

The Router 6672 has strong security features such as IPsec, MACSec and vendor software authentication ensuring subscriber data security even in insecure environments. With 100Gbps of switching capacity, the Router 6672 delivers wire-speed performance to fully support LTE, LTE Advanced, 5G, access sites for years to come.

The Router 6672 is part of the Ericsson Router 6000 Series, a radio integrated, service provider SDN enabled and subscriber aware IP transport family of products. The Router 6000 offers a range of high-performance routers with resiliency features and form factors optimized for the various needs of metro and backhaul networks.

The Ericsson Router 6000 Series is an essential component of the Ericsson Radio system and is tightly integrated with Ericsson Radio and Microwave to provide high capacity mobile backhaul with unprecedented quality of experience. Service provider SDN capabilities in the Router 6000 Series bring a new dimension of application aware traffic engineering to access and aggregation networks. All routers in the Ericsson Router 6000 Series run the IP Operating System (IPOS), enabling accelerated feature delivery and operational efficiencies. Ericsson Network Manager (ENM) manages the complete end-to-end network for both Mobile and Fixed deployments. Radio, Metro and Backhaul, Mobile Core, and Data Center. This enables seamless plug and play capabilities for radio and router installation and network operation.

High 10G port density and performance

Provides high 10G density and 100G switching capacity in a 1RU compact and hardened form factor enabling lower rental costs and lower OPEX.

Precise and proven synchronization

LTE-A enhancements such as COMP and e-ICIC that enable efficient use of spectrum have strict synchronization requirements. The Ericsson synchronization solution comes pre-verified to work with Radio.

SDN capabilities and programmability

Provides application aware traffic engineering with open and standardized interfaces, enabling network slicing and ability to tailor services for utmost agility.

Designed for low CAPEX and OPEX

Router 6000 series uses merchant silicon and a cost optimized design to lower CAPEX. Filter less design removes costly truck rolls every 5 months to inspect the filters, resulting in \$1000 yearly OPEX savings/site.

Strong Security

Strong and complete security solution for Macro cell, Small Cell and Aggregation in trusted and untrusted environments enables ubiquitous deployments.

Radio integrated Transport

Provides Radio aware transport for mobile backhaul enabling improved Quality of Experience for end users. Tight hardware and mechanical integration as part of Ericsson Radio System allows significantly easier cell site deployment and lower overall TCO.

Technical specification for Router 6672

Connectivity	<ul style="list-style-type: none"> 4x GE / 10GE SFP+ ports 8x GE SFP ports 4x 100 / 1000 Base-T RJ45 ports 1x 100 / 1000 Base-T Ethernet for Out-of-Band Management 1x RJ45 console port 1x RJ45 alarm port for 3 input and 1 output alarm contacts 1x USB 2.0 port
Synchronization Interfaces:	<ul style="list-style-type: none"> 1x RJ45 port (PPS/TOD) (ITU-T G.703 And'd) 1x RJ45 port for 2.048 MHz, E1/T1 (8KHz) input/output
Mechanical	<ul style="list-style-type: none"> System weight: 4kg / 13.2lbs Dimension (H x W x D): 1RU 43.6mm 1.442 41mm x 250mm Air flow: Filter-less design, Front to Back with field swappable fan tray
Electrical	<ul style="list-style-type: none"> Power supply DC: -48 V, dual feed Power supply AC: 100-240 V, single feed Power consumption: Typical 110 Watts, Max 165 Watts
Environmental	<ul style="list-style-type: none"> Operating Temperature: -40°C to 65°C Relative Humidity: 5 - 95% Non-condensing GR-108-CORE Class 1: Controlled Protected Environments EN 300 019-1-3 Class 3.2: Protected Equipment in Outside Environments EN 300 019-1-3 Class 3.2: Not temperature-controlled locations
Key features	<ul style="list-style-type: none"> IPv4, IPv6, BGP-4, MP-BGP, BGP FRR, BGP-L2, BGP-L3, OSPF, OSPFv3, VRRPv2/v3, LFA, LFA, RSVP-TE, Multicast PRR, LDP, LDPv6, Segment Routing, PCEP, Seamless MPLS, CoSPP, PBR, DHCP relay/Server, NDR support for OSPFv3, ISIS, BGP, LDP, LDPv6, EVPN 802.1Q virtual LAN (VLAN), IEEE 802.3ad Link Aggregation Control Protocol, BVI - Bridged Virtual Interface, QinQ, G.8032 Ethernet Ring Protection Switching, Broadcast storm protection, LLDP, Jumbo Frames up to 9600 bytes L3 MPLS VPNs, RSVP, Inter- autonomous-system MPLS VPN (options A, B, C), VPLS for E-Line Services, VPLS/MPLS for E-AN Services, Pseudowire redundancy, MEP, CEI, D2D Compliant IPv4/IPv6 multicast, PIM-MDSCAM, IGMP v1/v2/v3, MLDv2, MVRN IEEE 1588-2008 Precision Time Protocol, ITU-T Profiles for Frequency (G.8265.1 0000) and Time Phase (G.8275.1 T-BC/GM & G.8275.2 T-BC/GM), NTP, SyncE with CSMC, Stratum 3E clock, L3 based for PTP IEEE 802.1ag Connectivity Fault Management (ITU-T Y.1731 (DM, SLM and Throughput), Microwave Bandwidth Notification, MACSec, MPLS Ping Traceroute, BFD IPv4 & IPv6 Single Hop, BFD IPv4 & IPv6 Multi-Hop, Mon-SFD over LAG, TRAPD Reflector, TRAPD Prtoto, PM Linting, Secure boot, Vendor credential, Secured storage, Access control lists, RADIUS, TACACS+, LDAP, SD-WAN, MDS support for routing protocols, Reverse-path forwarding, IPsec up to 4Gbps, IKEv2, OSPFv2, QinQ, MACSec 4K/10G ports Diff-svc, weighted fair queuing, priority-weighted fair queuing, Multi-Ser Hierarchical QoS, 8Gb of packet buffers, RED/Weighted RED, ingress policing, egress shaping, 802.1p, MPLS EXP bits, Differentiated Services Management by Ericsson Network Manager (ENM), Management by Ericsson OSS-AC, Management by Ericsson Network Element Manager (NEM), CLI, SNMP, QoS, NETCONF, YANG modes, YANG, RMON, PM, J20, J280 touch provisioning with auto-configuration, Telemetry Streaming
IP Routing MPLS:	
Ethernet:	
Layer-2/Layer-3 Virtual Private Networking:	
Multicast Protocols:	
Timing and Synchronization:	
Operation and Maintenance:	
Security:	
Quality of Service:	
Network Management:	
Standards and specifications	<ul style="list-style-type: none"> Safety: LVD Directive 2014/35/EU, IEC/EN 60950-1, CFR 25 Part 15.10, UL/CSA 60950-1 EMC: EMC Directive 2014/53/EU, EN 300368, EN 301489-1, CISPR 32, EN 55032, CISPR 24, EN 55024, EN 50121-1, EN 50121-2, EN 61000-2-1, EN 61000-2-2, EN 61000-2-3, EN 61000-2-4, EN 300132-2, EN 300133-2, EN 301488, EN 301489-1 Part 1, EN 301489-1 Part 2, EN 301489-1 Part 3, EN 301489-1 Part 4 RoHS: Directive 2011/65/EU, WEEE Directive 2012/19/EU, EN 300 019-1-1, EN 300 019-1-2, EN 300 019-1-3, EN 300 303, ECE-C1.1 GR-108-CORE, GR-43-CORE, GR-3380 (NEBS Level 3), GR-108-CORE, ATT-TP-76200, VZ-TPL-000, VZ-TPL-005, VZ-TPL-006
Future release	

1 ROUTER 6672 DETAIL
C-9 SCALE: NTS (CEQ.58575)

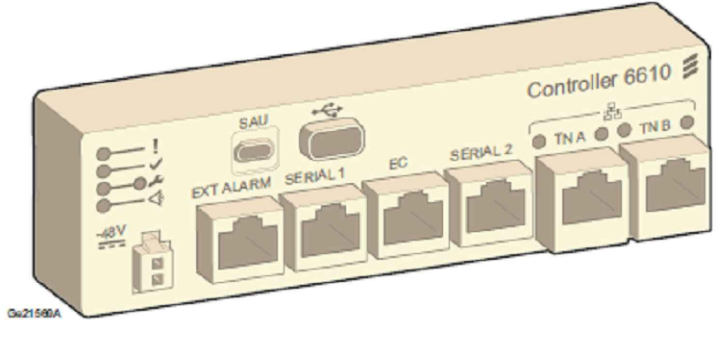
- Features:**
- Factory cut end, hot-dip galvanized pipe
- Construction:**
- ASTM A53 Grade B
 - Schedule 40 or Schedule 80
- Design Criteria:**
- ASTM A53 Grade B (Yield Fy = 35 ksi [240 MPa]/ Tensile Fu = 60 ksi [415 MPa])
 - Hot dip galvanized in accordance with ASTM A123 requirements

CEQ #	Part #	Length	OD x Length (in)
ANT.55983	P296	8'-0"	2-3/8" x 96"
ANT.55993	P2120	10'-0"	2-3/8" x 120"
ANT.16007	P2126	10'-6"	2-3/8" x 126"
ANT.56779	P2174	14'-6"	2-3/8" x 174"
ANT.55985	P3096	8'-0"	2-7/8" x 96"
ANT.16008	P30120	10'-0"	2-7/8" x 120"
ANT.56782	P30252	21'-0"	2-7/8" x 252"
ANT.55967	P396	8'-0"	3-1/2" x 96"
ANT.55982	P3120	10'	3-1/2" x 120"

2 PIPE DETAIL
C-9 SCALE: NTS

Controller 6610 Description

Description



Dimensions

Table 1 Dimensions

Height	Width	Depth
40 mm	140 mm	32 mm

Operating Environment

Table 2 Operating Environment

Requirement	Specification
Operating temperature	-40°C to +60°C
Transport temperature	-40°C to +70°C
Storage temperature	-40°C to +70°C
Relative humidity	5-85%

Power Characteristics

Table 3 Power Characteristics

Characteristic	Value
Nominal input voltage	-48 V DC
Voltage input range at -48 V DC	-40 V DC to -72 V DC
Maximum current input at -48 V DC	0.4 A
Power consumption	Typically 5 W Maximum 7 W
Fuse	Recommended 2-6 A Safety approved to 30 A
Maximum current output from SAU port	0.2 A at DC input voltage

3 ROUTER 6610 DETAIL
C-9 SCALE: NTS (CEQ.54418)



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SUBMITTALS

REV	DATE	DESCRIPTION	BY
A	04/10/25	90% CD	RC
B	06/02/25	90% CD	BM
C	07/08/25	90% CD	SKM
D	08/08/25	90% CD	SSB
0	09/04/25	100% CD	BG



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PROJECT TITLE

USID: 98501
FA#: 10092075

BRANCHVILLE

6900 POWDER MILL ROAD
TAKOMA PARK, MD 20912

EXISTING 101'-0"
WATER TANK

SHEET DESCRIPTION

EQUIPMENT DETAILS

SHEET NO.

C-9

Product Specifications

Rosenberger
Rosenberger Site Solutions, LLC

**RSS Fiber Distribution Enclosure
F-2132-FIBER72
Rosenberger Fiber Distribution Enclosure for
72 Channel System (Accommodates Three 24 Pair Fiber Trunk)**

The Rosenberger Site Solutions Fiber Distribution Enclosure is used for fiber management at top or bottom of towers. The enclosure provides connectivity of the Fiber Trunk Cable to the associated Fiber Jumpers. These jumpers then attach to the Remote Radio Units (RRU) or equipment.

The sturdy enclosure provides water and dust proof protection to fiber connections. Included mounting hardware eases attachment of the enclosure to many typical installation options.

Features and Specifications

- Dimensions: 24" x 24" x 8"
- Strong Molded Fiberglass Reinforced Polyester Construction with Matching Cover for additional depth
- UV Stabilized for outdoor use
- Stainless Steel Twist Latches with Padlock Hasp
- LC Adaptor Panel with 72 LC Duplex Adaptors
- Strain Relief glands to support Three 24 Pair Rosenberger Fiber Trunk
- Space for up to three 3" conduit openings
- Cable Management provided for fiber fanouts and jumper assemblies
- Pipe Mounting Hardware Included to support 1-1/4" to 4" nominal pipe size (1-1/2" to 4-1/2" O.D.)



Conceptual images only.
Actual product may vary slightly



1 F-2132-FIBER72 DETAIL
C-10 SCALE: NTS

3 NOT USED
C-10 SCALE: NTS

Technical Data Sheet - DRAFT	Rosenberger
Fiber excess cable storage	SLFCS001-000_DB

All dimensions are in mm; tolerances according to ISO 2768 m-H

Description
This cable excess storage box is made of satin stainless steel and stores up to 30 m excessive fiber optic cable.

Parts

Cable storage box	stainless steel	1 pc
Mounting angle for rack installation	stainless steel	2 pcs
Earthing bolt, M6		1 pc

Mechanical data

Mounting options: 19" rack installation (installation depth is mutable for 25mm)
wall installation
rack installation (optional parts required)
mat installation (optional parts required)

Capacity:
with cable diameter 5mm = approx. 30 m
with cable diameter 10mm = approx. 20 m
Appropriate only for cables with allowed bending radius „in operation“ of 140mm or smaller.

Environmental data
Installation temperature range: -55°C to +85°C
2002/95/EC (RoHS) compliant

Packing
Standard: 1 pc in box
Weight: 102 g / pc

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
H.Schult	30/06/10	R.Pang	30/06/10	100	10-0003	H.Schult	30/06/10

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Fax: +49 8664 18-439
Email: info@rosenberger.de

Page: 1 / 1

2 FIBER STORAGE TRAYS DETAIL
C-10 SCALE: NTS

4 NOT USED
C-10 SCALE: NTS



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SUBMITTALS			
REV	DATE	DESCRIPTION	BY
A	04/10/25	90% CD	RC
B	06/02/25	90% CD	BM
C	07/08/25	90% CD	SKM
D	08/08/25	90% CD	SSB
0	09/04/25	100% CD	BG



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PROJECT TITLE

USID: 98501
FA#: 10092075

BRANCHVILLE

6900 POWDER MILL ROAD
TAKOMA PARK, MD 20912

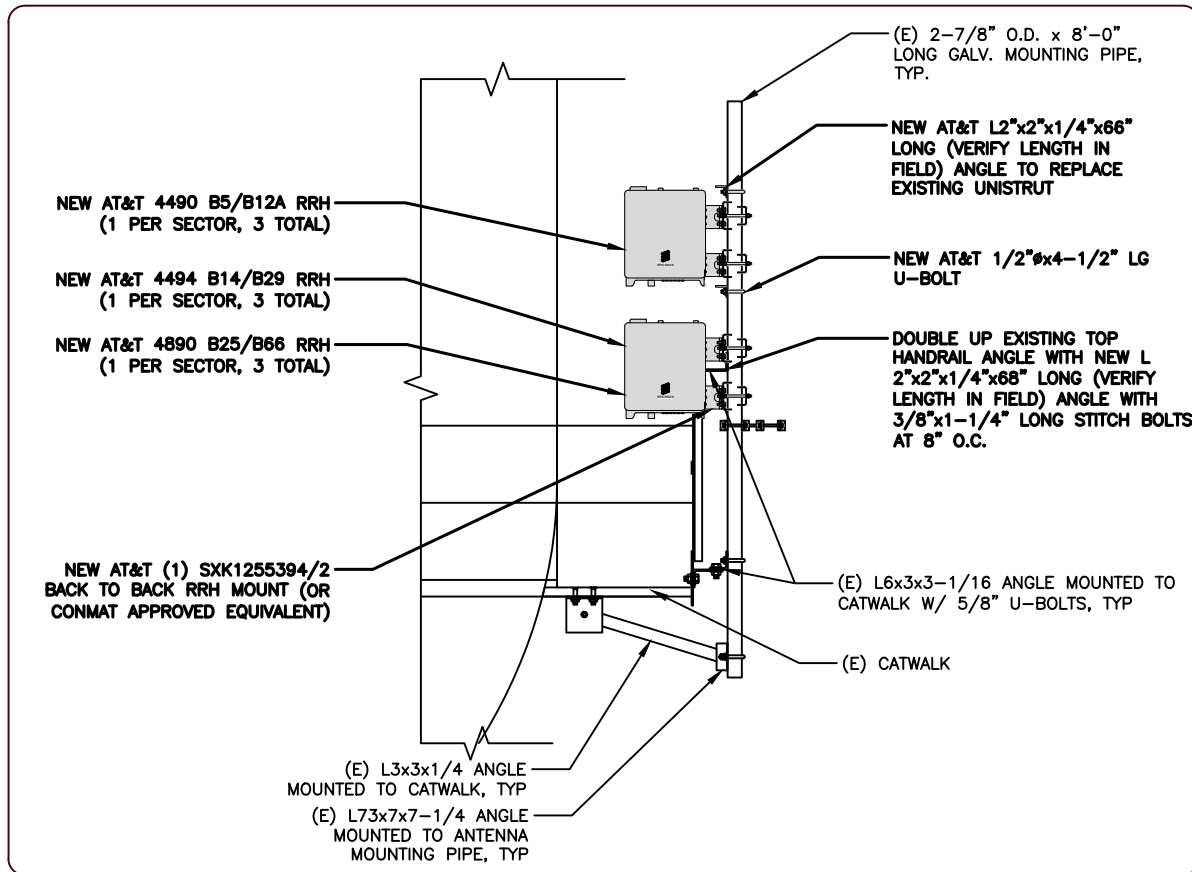
EXISTING 101'-0"
WATER TANK

SHEET DESCRIPTION

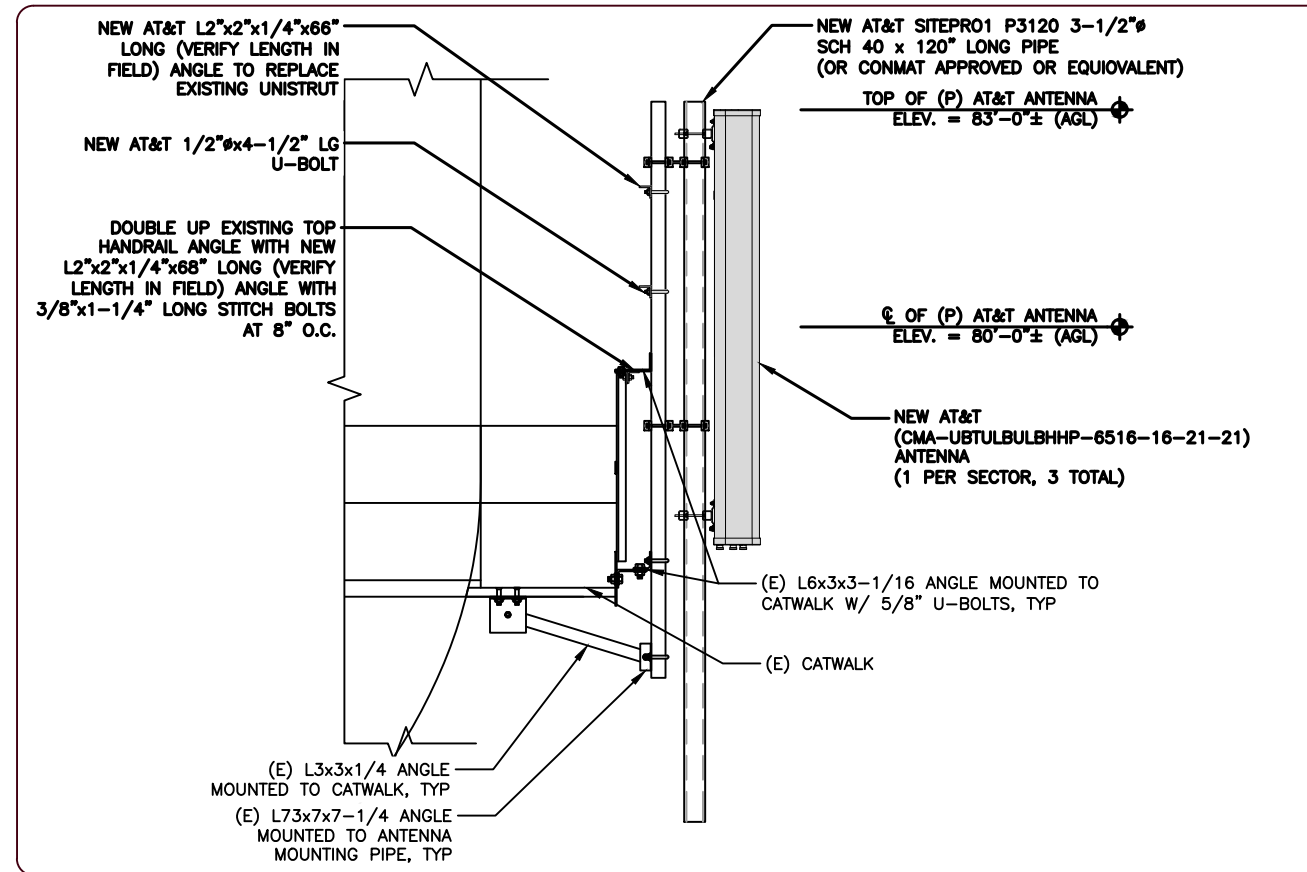
EQUIPMENT DETAILS

SHEET NO.

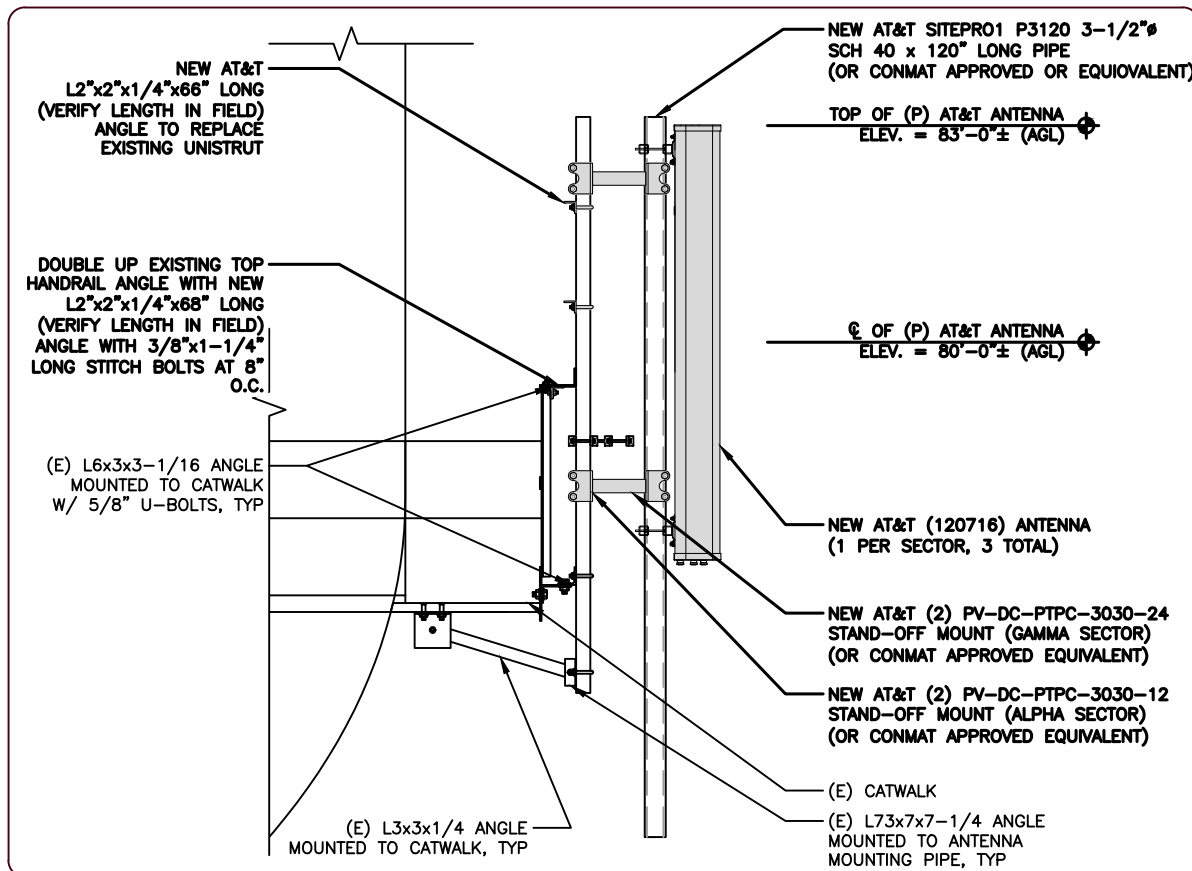
C-10



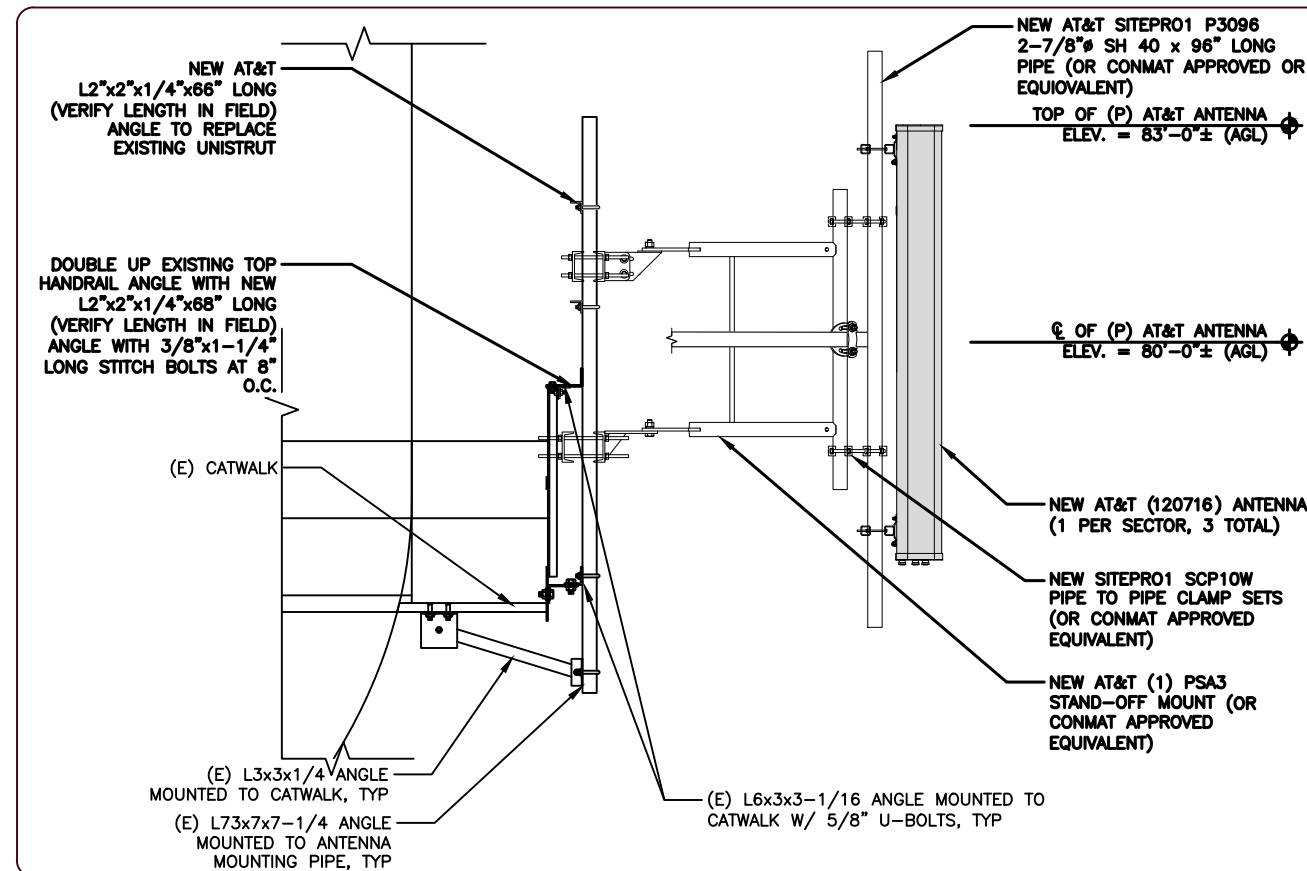
1 RRU MOUNTING DETAIL
C-12 SCALE: NTS



2 ANTENNA MOUNTING DETAIL (FOR ALPHA, BETA & GAMMA SECTOR)
C-12 SCALE: NTS



3 ANTENNA MOUNTING DETAIL (FOR ALPHA & GAMMA SECTOR)
C-12 SCALE: NTS



4 ANTENNA MOUNTING DETAIL (FOR BETA SECTOR)
C-12 SCALE: NTS



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SUBMITTALS			
REV	DATE	DESCRIPTION	BY
A	04/10/25	90% CD	RC
B	06/02/25	90% CD	BM
C	07/08/25	90% CD	SKM
D	08/08/25	90% CD	SSB
O	09/04/25	100% CD	BG



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PROJECT TITLE
USID: 98501
FA#: 10092075
BRANCHVILLE
6900 POWDER MILL ROAD
TAKOMA PARK, MD 20912
EXISTING 101'-0"
WATER TANK

SHEET DESCRIPTION
EQUIPMENT DETAILS

SHEET NO.
C-12



DRAWING SCALES ARE INTENDED FOR 11"x17" SIZE PRINTED MEDIA ONLY.

SUBMITTALS			
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A	04/10/25	90% CD	RC
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USID: 98501
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BRANCHVILLE

6900 POWDER MILL ROAD
TAKOMA PARK, MD 20912

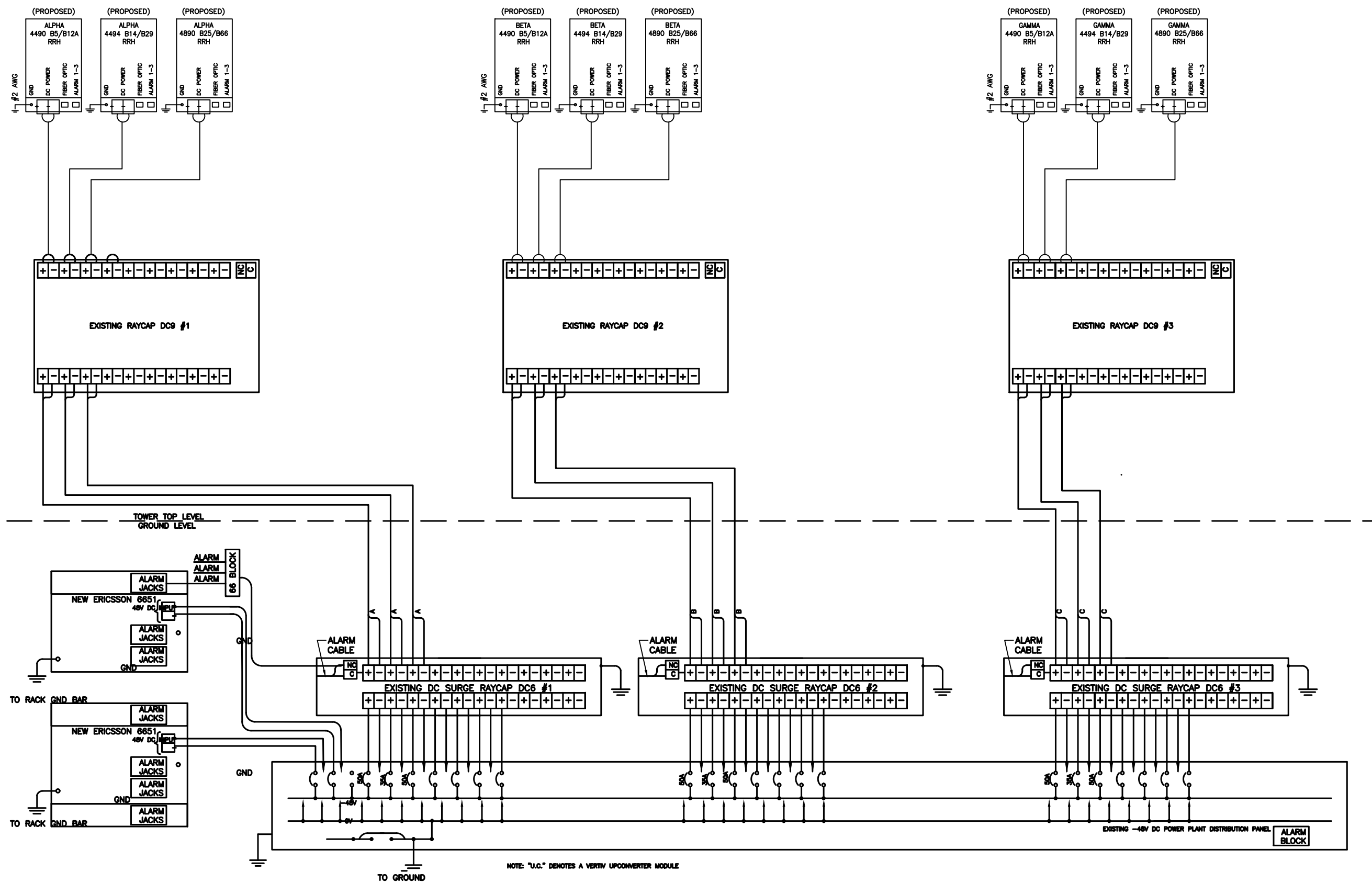
EXISTING 101'-0"
WATER TANK

SHEET DESCRIPTION

DC SURGE SUPPRESSION
WIRING DIAGRAM

SHEET NO.

E-1



NOTE:
CONTRACTOR TO REFER TO
ATT-CEM-18002-OEM RADIO BREAKER SIZE
STANDARD (V50-20250422-123544) WITH ISSUE
DATE 04/22/2025

1 DC SURGE SUPPRESSION WIRING DIAGRAM
SCALE: NOT TO SCALE



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6900 POWDER MILL ROAD
TAKOMA PARK, MD 20912

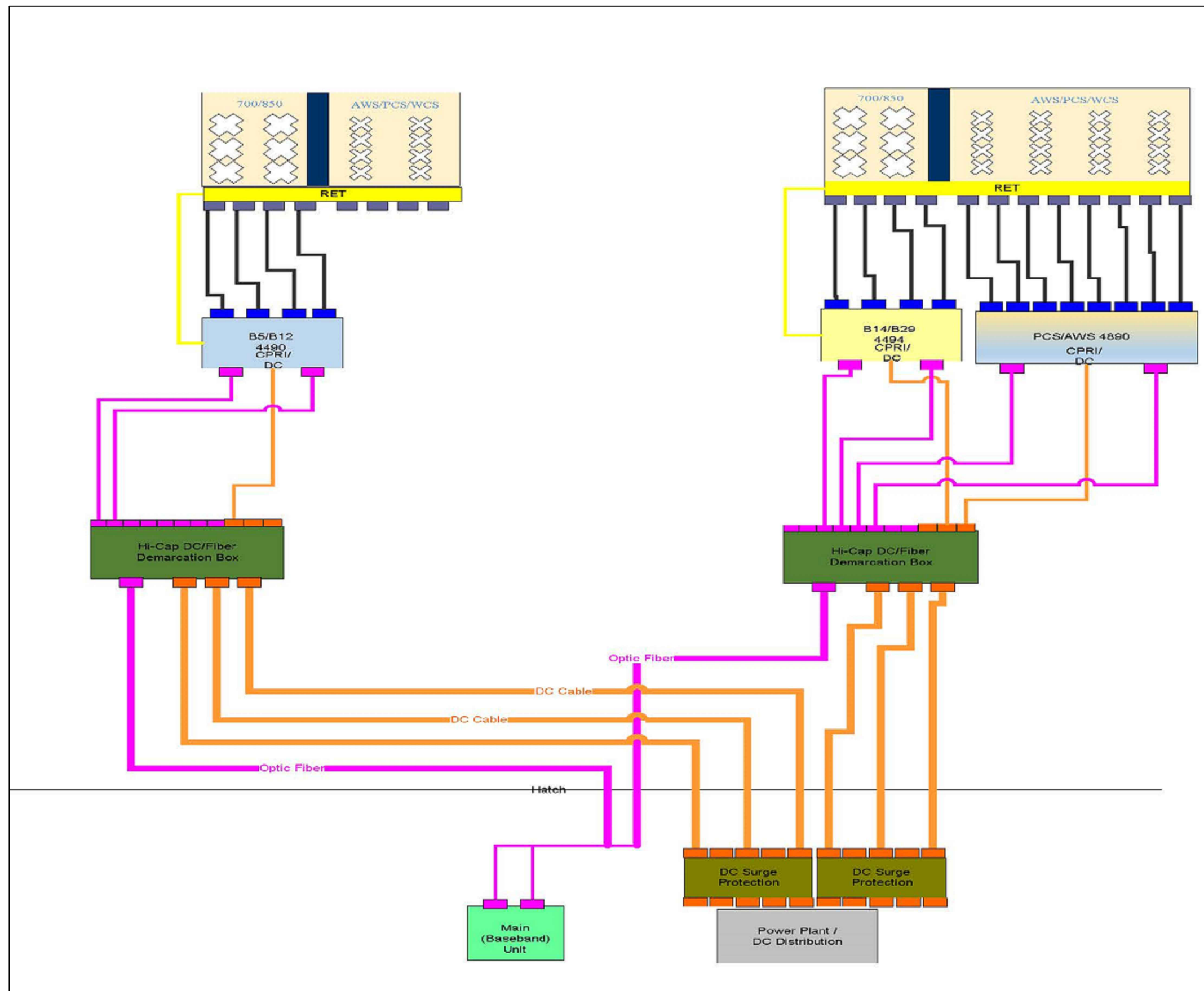
EXISTING 101'-0"
WATER TANK

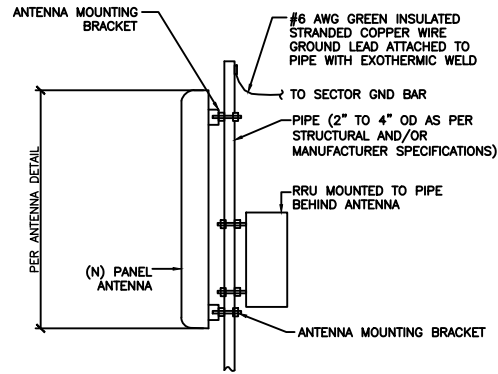
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RF PLUMBING DIAGRAM

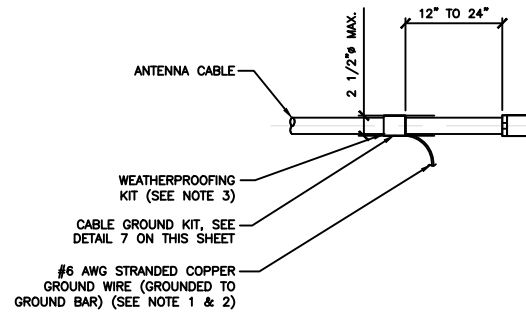
SHEET NO.

RF-1



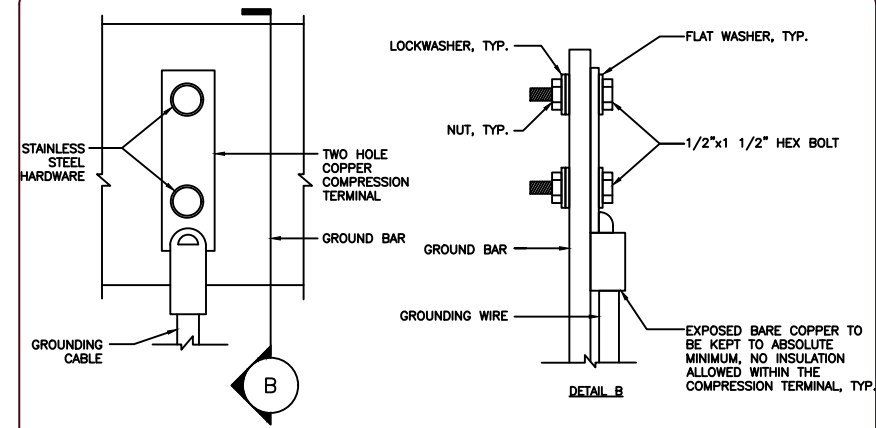


1 ANTENNA PIPE MOUNT GROUNDING DETAIL
G-1



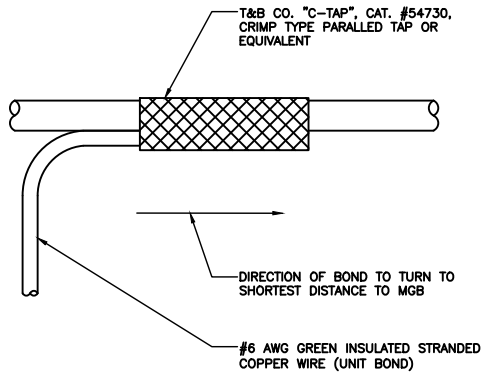
- NOTES:
- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
 - GROUNING KIT SHALL BE ANDREW SUREGROUND TYPE KIT WITH TWO-HOLE LUG.
 - WEATHER PROOFING SHALL BE ANDREW TWO-PART TAPE SUPPLIED WITH KIT. COLD SHRINK SHALL NOT BE USED.

2 CABLE GROUND KIT DETAIL
G-1

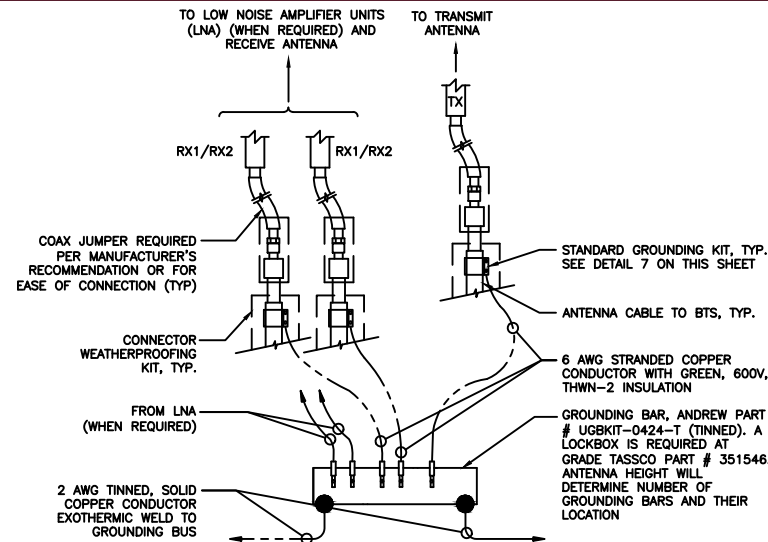


- NOTES:
- "DOUBLING UP" OR "STACKING" OF CONNECTIONS IS NOT PERMITTED.
 - OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS AND TO BE APPLIED PRIOR TO ADDING HARDWARE.

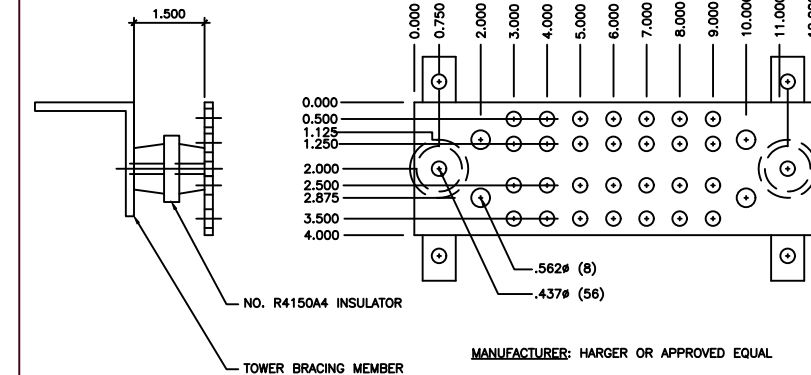
3 TYPICAL GROUND LUG CONNECTION DETAIL
G-1



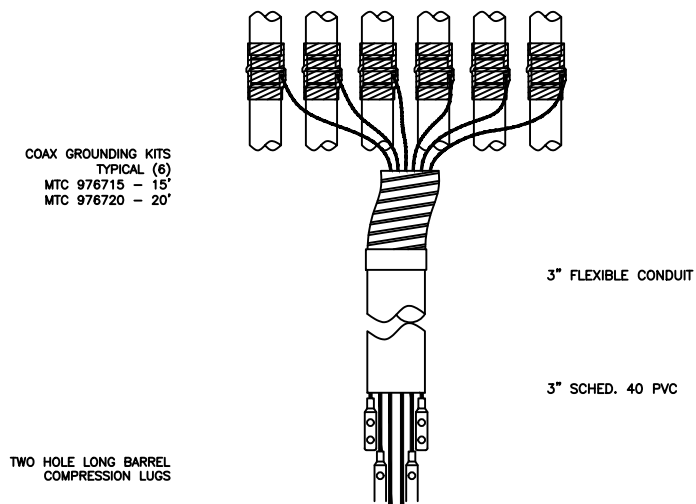
4 GROUNDING WIRE CONNECTION
G-1



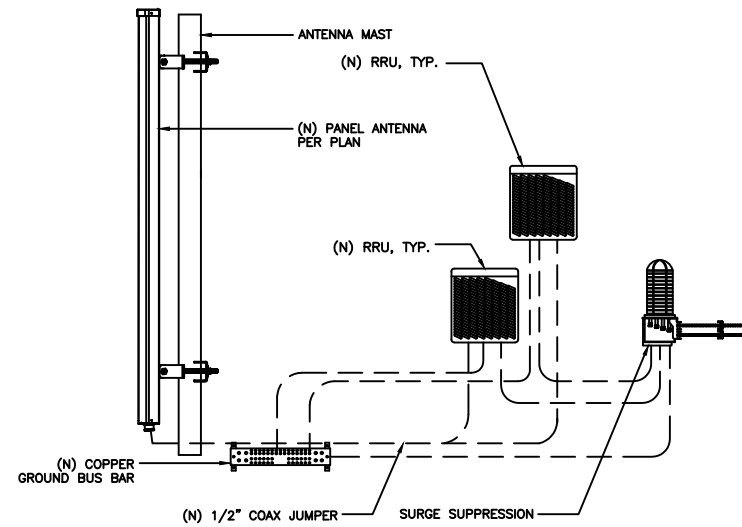
5 ANTENNA GROUNDING BAR CONNECTION DETAIL
G-1



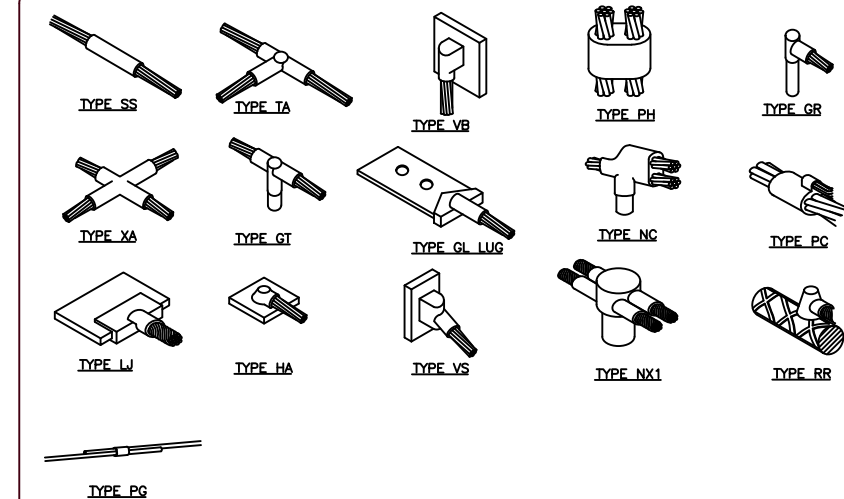
6 ANTENNA (12") GROUND BAR DETAIL
G-1



7 COAX GROUND KIT
G-1



8 RRU GROUNDING DETAIL
G-1



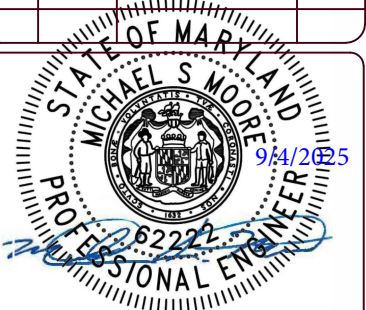
9 TYPICAL CADWELD TYPES
G-1



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TAKOMA PARK, MD 20912

EXISTING 101'-0"
WATER TANK

SHEET DESCRIPTION

GROUNDING DETAILS

SHEET NO.

G-1

GENERAL NOTES

1. GENERAL REQUIREMENTS

A. PURPOSE AND INTENT

1. THE DRAWING AND SPECIFICATION ARE INTENDED TO BE FULLY EXPLANATORY AND SUPPLEMENTARY, HOWEVER, SHOULD ANYTHING BE SHOWN, INDICATED, OR SPECIFIED ON ONE AND NOT THE OTHER, IT SHALL BE DONE THE SAME AS IF DISCREPANCIES BETWEEN REQUIREMENTS SHOWN IN BOTH, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.

2. THE INTENTION OF THE DOCUMENT IS TO INCLUDE ALL LABOR AND MATERIALS REASONABLY NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK AS STIPULATED IN THE CONTRACT.

A. CONFLICTS

1. VERIFY ALL MEASUREMENTS AT THE SITE BEFORE ORDERING MATERIAL OR DOING ANY WORK, NO EXTRA CHARGE OR COMPENSATION WILL BE ALLOWED DUE TO DIFFERENCES BETWEEN ACTUAL DIMENSIONS OR DIMENSIONS SHOWN ON PLANS SUBMIT NOTICE OF ANY DISCREPANCY IN DIMENSIONS OR OTHERWISE TO AT&T FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK.

2. NO PLEA OF IGNORANCE OF CONDITIONS THAT EXIST, OR OF DIFFICULTIES OR CONDITIONS THAT MAY BE ENCOUNTERED, OR OF ANY OTHER RELEVANT MATTER CONCERNING THE EXECUTION OF THE WORK WILL BE ACCEPTED AS AN EXCUSE FOR ANY FAILURE OR OMISSION ON THE PART OF THE CONTRACTOR TO FULFILL EVERY DETAIL OF ALL THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS GOVERNING THE WORK.

A. CLEANING

1. KEEP THE SITE FREE FROM ACCUMULATION OF WASTE AND RUBBISH CAUSED BY EMPLOYEES AT THE COMPLETION OF THE WORK, REMOVE ALL WASTE AND NON-CONSTRUCTION MATERIAL INCLUDING ALL CONTRACT TOOLS, SCAFFOLDING, AND SURPLUS MATERIAL AND LEAVE SITE CLEAN AND READY FOR USE.

A. CODES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR FOLLOWING ALL LAWS, REGULATIONS, AND RULES PROMULGATED BY FEDERAL STATE AND LOCAL AUTHORITIES WITH JURISDICTION OVER THE SALTIER. THIS RESPONSIBILITY IS IN EFFECT REGARDLESS OF WEATHER THE LAW, ORDINANCE, REGULATION OR RULE IS MENTIONED IN THESE SPECIFICATIONS.

A. LICENSING

1. CONTRACTOR SHALL HAVE AND MAINTAIN A VALID CONTRACTOR'S LICENSE FOR THE LOCATION IN WHICH THE WORK IS TO BE PERFORMED. FOR JURISDICTIONS THAT LICENSE INDIVIDUAL TRADES, THE TRADESMAN OR SUBCONTRACTOR PERFORMING THOSE SHALL BE LICENSED, RESEARCHED AND COMPLY WITH THE LICENSING LAWS, PAY LICENSE FEES, AND SELECT AND INFORM SUBCONTRACTORS REGARDING THESE LAWS.

A. OSHA

1. FOLLOW ALL APPLICABLE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATIONS AND STATE LAWS BASED IN THE FEDERAL OCCUPATION SAFETY AND HEALTH ACT. THESE REGULATIONS INCLUDE, BUT ARE NOT LIMITED TO, REGULATIONS DEALING WITH TOWER CONSTRUCTION AND SAFETY, EXCAVATION AND TRENCHING, AND WORK IN CONFINED SPACES. ENSURE THAT EMPLOYEES AND SUBCONTRACTORS WEAR HARD HATS AT ALL TIMES DURING CONSTRUCTION.

A. PHOTOS

1. PROVIDE PHOTOGRAPHIC EVIDENCE OF ALL FOUNDATION INSTALLATIONS, GROUNDING, AND TRENCHING AFTER PLACEMENT OF UTILITIES PRIOR TO BACKFILL.

A. BUILDING PERMITS

1. CONTRACTOR WILL SUBMIT CONSTRUCTION DOCUMENTS TO THE JURISDICTIONAL AUTHORITY FOR PLAN CHECK AND REVIEW. CONTRACTOR WILL SUBMIT LICENSING AND WORKMAN'S COMPENSATION INFORMATION TO THE JURISDICTION AS REQUIRED TO OBTAIN THE BUILDING PERMIT. CONTRACTOR SHALL COORDINATE AND SCHEDULE REQUIRED INSPECTIONS AND POST REQUIRED PERMITS AT THE JOB SITE COMPLY WITH SPECIFIC PROJECT RELATED REQUESTS AND SUGGESTIONS MADE BY BUILDING INSPECTOR, AND INFORM CONSTRUCTION MANAGER OF ANY SUCH WORK THAT MAY BE BEYOND THE SCOPE OF THE CONTRACT OR DEVIATE FROM THE CONSTRUCTION DOCUMENT. AT&T WILL REIMBURSE THE CONTRACTOR FEES FOR PLAN REVIEW, BUILDING PERMIT, CONNECTIONS, AND INSPECTIONS. (INCLUDED IN THE BASE PROPOSAL).

A. ZONING REGULATIONS AND CONDITIONAL USE PERMITS

1. CONTRACTOR WILL SUBMIT ALL ZONING AND CONDITIONAL USE PERMITS. SOME USE PERMITS MAY HAVE SPECIFIC REQUIREMENTS FOR THE SITE RELATED TO CONSTRUCTION, SUCH AS NOISE REGULATIONS, HOURS OF WORK, ACCESS LIMITATIONS, ETC. THE CONSTRUCTION MANAGER WILL INFORM THE CONTRACTOR OF THESE REQUIREMENTS AT THE PRE-BID MEETING OR AS SHOWN IN THE CONSTRUCTION DOCUMENTS.

A. FAA PERMIT AND TOWER LIGHTING

1. REFER TO CONSTRUCTION DOCUMENTS AND CONSTRUCTION MANAGER FOR FAA AND STATE LIGHTING REQUIREMENTS. CONTRACTOR SHALL PROVIDE TEMPORARY FM APPROVED LIGHTING UNTIL PERMANENT LIGHTING IS OPERATIONAL.

A. TOWER SECURITY

1. IF REQUIRED, TOWER MUST BE FENCED, TEMPORARILY OR PERMANENTLY WITHIN 24 HOURS OF ERECTION. DO NOT ALLOW THE GATE ACCESSING THE TOWER AREA TO REMAIN OPEN OR UNATTENDED ANY TIME FOR ANY REASON. KEEP THE GATE CLOSED AND LOCKED WHEN NOT IN USE.

L. SITE CONTROL

1. THE CONTRACTOR IS COMPLETELY RESPONSIBLE FOR CONTAINMENT OF SEDIMENT AND CONTROL OF EROSION AT THE SITE. ANY DAMAGE TO ADJACENT OR DOWNSTREAM PROPERTIES WILL BE CORRECTED BY THE CONTRACTOR AT NO EXPENSE TO AT&T.

2. THE CONTRACTOR IS TO MAINTAIN ADEQUATE DRAINAGE AT ALL TIMES. DO NOT ALLOW WATER TO STAND OR POND. ANY DAMAGE TO STRUCTURES OR WORK ON THE SITE CAUSED BY INADEQUATE MAINTENANCE OF DRAINAGE PROVISIONS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND ANY COST ASSOCIATED WITH REPAIRS FOR SUCH DAMAGE WILL BE AT THE CONTRACTOR'S EXPENSE.

3. ALL WASTE MATERIAL SHALL BE PROPERLY DISPOSED OF OFF-SITE OR AS DIRECTED BY CONSTRUCTION MANAGER AND IN ACCORDANCE WITH JURISDICTIONAL AUTHORITIES.

M. LIVESTOCK PROTECTION

1. PROTECT AND SECURE LIVESTOCK. MAINTAIN AND SECURE EXISTING PERIMETER FENCE AND/OR GATE ENCLOSURES.

2. SITE PREPARATION

A. SCOPE OF WORK INCLUDES

1. PROTECTION OF EXISTING TREES, VEGETATION AND LANDSCAPING MATERIALS WHICH MIGHT BE DAMAGED BY CONSTRUCTION ACTIVITIES.
2. TRIMMING OF EXISTING TREES AND VEGETATION AS REQUIRED FOR PROTECTION DURING CONSTRUCTION ACTIVITIES.
3. CLEANING AND GRUBBING OF STUMPS, VEGETATION, DEBRIS, RUBBISH, DESIGNATED TREES AND SITE IMPROVEMENTS.
4. TOPSOIL STRIPPING AND STOCKPILING.
5. TEMPORARY EROSION CONTROL, SILTATION CONTROL, AND DUST CONTROL CONFORMING TO LOCAL REQUIREMENTS AS APPLICABLE.
6. TEMPORARY PROTECTION OF ADJACENT PROPERTY, STRUCTURES, BENCHMARKS, AND MONUMENTS.
7. PROTECTION AND TEMPORARY RELOCATION, STORAGE AND RE-INSTALLATION OF EXISTING FENCE AND OTHER SITE IMPROVEMENTS SCHEDULED FOR RE-USE.
8. REMOVAL AND LEGDK DISPOSAL OF CLEARED MATERIALS.

B. PRODUCTS AND MATERIALS (AS APPROVED BY CONSTRUCTION MANAGER OR AS NOTED IN CONSTRUCTION DOCUMENTS)

1. MATERIALS USED FOR TREE PROTECTION, EROSION CONTROL, SILTATION CONTROL, AND DUST CONTROL.

3. EARTHWORK

A. SCOPE OF WORK INCLUDES

1. EXCAVATION, TRENCHING, FILLING, COMPACTION, AND GRADING FOR STRUCTURES, SITE IMPROVEMENTS AND UTILITIES.
2. MATERIALS FOR SUB-BASE, DRAINAGE, BACKFILL AND GRAVEL FOR SLABS, PAVEMENT AND IMPROVEMENTS.
3. ROCK EXCAVATION WITHOUT BLASTING.
4. SUPPLY OF ADDITIONAL MATERIALS FOR OFFSITE AS REQUIRED.
5. REMOVAL AND LEGDK DISPOSAL OF EXCAVATED MATERIAL AS REQUIRED.

B. QUALITY ASSURANCE

1. COMPACTION
 - A. UNDER STRUCTURES, BUILDING SLABS, PAVEMENTS AND WALKWAYS WILL OBTAIN A 95% COMPACTION AT A MINIMUM DRY DENSITY AS DETERMINED BY ASTM 0-1557 OR WITH PLUS OR MINUS 3% OF THE MOISTURE CONTENT.
 2. GRADING TOLERANCES OUTSIDE BUILDING LINES
 - A. LAWNS, UNPAVED AREAS AND WALKS PLUS OR MINUS 1 INCH.
 - B. UNDER PAVEMENTS PLUS OR MINUS 1/2 INCH.
 3. GRADING TOLERANCES FOR FILL UNDER CONCRETE APPLICATIONS
 - A. PLUS OR MINUS 1/2 INCH MEASURED WITH 10 FOOT STRAIGHT EDGE.

C. PRODUCTS AND MATERIALS (AS APPROVED BY CONSTRUCTION MANAGER OR AS NOTED IN CONSTRUCTION DOCUMENTS)

1. SUB-BASE MATERIAL: GRADED MIXTURE OF NATURAL OR CRUSHED GRAVEL, CRUSHED STONE OR SLAG, AND NATURAL SAND.
2. WASHED MATERIAL, EVENLY GRADED MIXTURE OF CRUSHED STONE OR GRAVEL WITH 95% PASSING A 1-1/2 INCH SIEVE.
3. GRADING MATERIAL WILL CONSIST OF SATISFACTORY NATIVE OR IMPORTED SOIL MATERIALS FREE OF CLAY, ROCK OR GRAVEL NOT LARGER THAN 2 INCHES IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS AND OTHER UNSUITABLE MATERIALS WILL NOT BE ALLOWED FOR USE. IMPORTED MATERIALS SHALL HAVE A CLAY CONTENT OF NO MORE THAN 5%.
4. GRAVEL MATERIAL: EVENLY GRADED MIXTURE OF CRUSHED STONE OR GRAVEL WITH 95% PASSING A 1-1/2 INCH SIEVE.
5. GEOTEXTILE FABRIC: AS PER CONSTRUCTION DOCUMENTS.

D. CLEARING AND GRUBBING

1. REMOVE ALL VEGETATION AND MATERIALS AS REQUIRED. REMOVE STUMPS COMPLETELY UNDER FOUNDATIONS AND ROADWAYS. DISPOSE OF CLEARING AND GRUBBING OFF-SITE OR IN AN ON-SITE LOCATION APPROVED BY CONSTRUCTION MANAGER.

E. STRIPPING

1. STRIP NOT LESS 3 INCHES OF SOD AND TOPSOIL FROM AREAS THAT WILL UNDERLAY GRAVEL, PAVEMENT, NEW STRUCTURES OR EMBANKMENTS. STOCKPILE STRIPPING ON-SITE FOR RE-USE AND FINAL LANDSCAPING.

G. EMBANKMENT

1. CONSTRUCT EMBANKMENT TO THE LINES AND GRADES SHOWN ON THE DRAWING.
2. CONSTRUCT EMBANKMENT FROM ON-SITE EXCAVATION MATERIAL WHEN SUITABLE. USE IMPORTED BACKFILL ONLY AFTER AVAILABLE ON-SITE EXCAVATION MATERIAL HAS BEEN USED.
3. CONSTRUCT IN LIFTS OF NOT MORE THAN 12 INCHES IN LOOSE DEPTH. THE FULL WIDTH OF THE CROSS SECTION SHALL BE BROUGHT UP UNIFORMLY.
4. MATERIAL SHALL BE PLACED IN LAYERS AND SHALL BE NEAR OPTIMUM MOISTURE CONTENT BEFORE ROLLING TO OBTAIN THE PRESCRIBED COMPACTION. WETTING OR DRYING OF THE MATERIAL AND MANIPULATION TO SECURE A UNIFORM MOISTURE CONTENT THROUGHOUT THE LAYERS MAY BE REQUIRED. SUCH OPERATIONS SHALL BE INCLUDED IN THE APPROPRIATE BID ITEM. SHOULD THE MATERIAL BE TOO WET TO PERMIT PROPER COMPACTION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO UTILIZE MATERIAL WITH AN ACCEPTABLE MOISTURE CONTENT.
5. DO NOT PLACE FROZEN MATERIAL IN THE EMBANKMENT AND DO NOT PLACE EMBANKMENT MATERIAL UPON FROZEN MATERIAL.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF EMBANKMENTS AND THE REPLACEMENT OF ANY PORTION WHICH HAS BECOME DISPLACED DUE TO CONTRACTOR'S OPERATIONS.
7. START LAYERS IN THE DEEPEST PORTION OF THE FILL AND AS PLACEMENT PROGRESSES, CONSTRUCT LAYERS APPROXIMATELY PARALLEL TO THE FINISH GRADE LINE.
8. ROUTE EQUIPMENT BOTH LOADED AND EMPTY, OVER THE FULL WIDTH OF THE EMBANKMENT TO ENSURE UNIFORMITY OF MATERIAL PLACEMENT.
9. COMPACT EMBANKMENT UNDERLYING NEW GRAVEL PAVING, FLOOR SLABS AND STRUCTURES TO BE 95% COMPACTION AT A MINIMUM DRY DENSITY AS DETERMINED BY ASTM 0-1557 OR WITHIN PLUS OR MINUS 3% OF OPTIMUM MOISTURE CONTENT. COMPACT NON-STRUCTURAL AREA EMBANKMENTS TO A MINIMUM OF 90% OF ASTM 0-1557.

H. SITE GRADING

1. USING ON-SITE EXCAVATION MATERIAL, SHAPE, TRIM, FINISH AND COMPACT SURFACE AREAS TO CONFORM TO THE LINES. GRADES AND CROSS SECTIONS SHOWN ON THE DRAWING OR AS DESIGNATED BY THE CONSTRUCTION MANAGER.
2. GRADE SURFACES TO DRAIN AND ELIMINATE ANY PONDING OR EROSION.
3. ELIMINATE WHEEL RUTS BY REGRADING.
4. COMPACT AREAS OF UNDERLYING NEW GRAVEL, PAVING, FLOOR SLABS AND STRUCTURES TO BE AT 95% COMPACTION AT A MAXIMUM DRY DENSITY AS DETERMINED BY THE ASTM 0-1557 OR WITHIN PLUS OR MINUS 3% OF OPTIMUM MOISTURE CONTENT.
5. CONSTRUCT FINISH SURFACE OF SITE GRADING AREAS WITHIN 1 INCH FROM SPECIFIED GRADE.

I. SUBGRADE PREPARATION

1. SHAPE TOP OF SUBGRADE TO THE LINES AND GRADES SHOWN ON THE DRAWINGS.
2. MAINTAIN TOP OF SUBGRADE IN A FREE-DRAINING CONDITION.
3. DO NOT STOCK PILE MATERIAL ON TOP OF SUBGRADE UNLESS AUTHORIZED BY CONSTRUCTION MANAGER.
4. COMPACT THE TOP 12 INCHES OF SUBGRADE TO A 95% COMPACTION AT A MAXIMUM DRY DENSITY AS DETERMINED BY ASTM 0-1557 OR WITHIN PLUS OR MINUS 3% OF THE OPTIMUM MOISTURE CONTENT.
5. CONSTRUCT TOP OF SUBGRADE WITHIN 1 INCH OF ESTABLISHED GRADE AND CROSS SECTION.

J. GEOTEXTILE FABRIC

1. LAY GEOTEXTILE FABRIC OVER COMPACTED SUBGRADE IN THE COMPOUND AREA AND UNDER LENGTH OF ROAD (WHEN REQUIRED). LAP ALL JOINTS TO A MINIMUM OF 36 INCHES.

K. GRAVEL SURFACING

1. CONSTRUCT GRAVEL SURFACING AREAS USING CRUSHED AGGREGATE BASE AND FINISH COURSES AS SPECIFIED BY CONSTRUCTION MANAGER. SPREAD GRAVEL AND RAKE TO OBTAIN A UNIFORM SURFACE AREA.

L. LANDSCAPING

1. FURNISH, INSTALL AND MAINTAIN LANDSCAPE WORK AS SHOWN AND/OR REQUIRED WITHIN THE CONSTRUCTION DOCUMENTS OR AS SPECIFIED IN THE CONSTRUCTION SPECIFICATIONS.

M. CONCRETE FORM WORK

1. FORMS: SMOOTH AND FREE OF SURFACE IRREGULARITIES. UTILIZE FORM RELEASE AGENTS.
2. CHAMFER EXPOSED EDGES OF ALL TOWER FOUNDATION SHALL RECEIVE A 1/2 INCH BY 1/2 INCH 45 DEGREE CHAMFER. OTHER EXPOSED EDGES SHALL RECEIVE A TOOLED RADIUS FINISH.
3. UPON COMPLETION, REMOVE ALL FORMS INCLUDING THOSE CONCEALED OR BURIED.
4. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.

4. GENERAL NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE ALL PLAN SHEETS AND SPECIFICATIONS AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS TO ENSURE THAT WORK PROGRESSION IS NOT INTERRUPTED.
2. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A NEAT AND ORDERLY SITE, YARD AND GROUNDS. CONTRACTOR SHALL REMOVE AND DISPOSE OFF SITE ALL RUBBISH, WASTE MATERIAL, LITTER AND ALL FOREIGN SUBSTANCES. REMOVE PETROCHEMICAL SPILLS, STAINS AND OTHER FOREIGN DEPOSITS. RAKE GROUND TO A SMOOTH EVEN-TEXTURED SURFACE.
3. THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURE ABOVE GROUND STRUCTURES AND/OR UTILITIES BELIEVED TO EXIST IN THE WORKING AREA. EXACT LOCATION OF WHICH MAY VARY FROM THE LOCATION INDICATED. IN PARTICULAR THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY BE SHOWN OR MAY NOT BE SHOWN AND IT SHALL BE HIS RESPONSIBILITY TO PROCEED WITH GREAT CARE IN 48 HOURS BEFORE YOU DIG, DRILL OR BLAST CALL LOCAL UTILITIES LOCATOR COMPANY.
4. THE OWNER OR OWNER'S REPRESENTATIVE SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED APPROVAL OF THE OWNER OR THE OWNER'S REPRESENTATIVE.
5. THE CONTRACTOR IS INSTRUCTED TO COOPERATE WITH ANY AND ALL OTHER CONTRACTORS PERFORMING WORK ON THE SITE DURING THE PERFORMANCE OF THIS CONTRACT.
6. THE CONTRACTOR SHALL RESTORE ALL DAMAGED, PUBLIC OR PRIVATE PROPERTY TO AT LEAST AS GOOD OF CONDITION AS BEFORE DISTURBED AS DETERMINED BY THE OWNER OR OWNER'S REPRESENTATIVE.
7. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIRED PERMITS.
8. THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE MONUMENTATION. ANY MONUMENTATION DISTURBED OR DESTROYED, AS JUDGED BY THE OWNER OR OWNER'S REPRESENTATIVE, SHALL BE REPLACED.
9. ALL TRENCH EXCAVATION AND ANY REQUIRED SHEETING AND SHORING SHALL BE DONE IN ACCORDANCE WITH OSHA REGULATIONS FOR CONSTRUCTION.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF WORK.
11. ALL UTILITY WORK INVOLVING CONNECTIONS TO EXISTING SYSTEMS SHALL BE COORDINATED WITH THE OWNER OR OWNER'S REPRESENTATIVE BEFORE EACH AND EVERY CONNECTION TO EXISTING SYSTEMS IS MADE.
12. MAINTAIN FLOW FOR ALL EXISTING UTILITIES
13. ALL SITE FILL SHALL MEET SELECTED FILL STANDARDS AS DEFINED BY THE OWNER OF OWNER'S REPRESENTATIVE ON THE DRAWINGS OR GEOTECHNICAL REPORT RECOMMENDATIONS.
14. CONTRACTOR TO GRADE ALL AREAS OF THE SITE TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE BUILDING OR EQUIPMENT PAD AND THE TOWER.
15. IF NECESSARY, THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING AND REGRADING ROADWAY AND ANY DISTURBED AREAS FOLLOWING INSTALLATION OF UTILITIES.
16. NO COMMERCIAL MESSAGES TO BE DISPLAYED ON TOWER
17. WATER AND SEWER SERVICES ARE NOT REQUIRED FOR THE DEVELOPMENT
18. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIAL UNLESS OTHERWISE NOTED.
19. ELECTRICAL DRAWINGS HAVE BEEN REVIEWED AND SEALED FOR STRUCTURAL PURPOSES ONLY.



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USID: 98501
FA#: 10092075

BRANCHVILLE

6900 POWDER MILL ROAD
TAKOMA PARK, MD 20912

EXISTING 101'-0"
WATER TANK

SHEET DESCRIPTION

GENERAL NOTES

SHEET NO.

GN-1



SECTOR ALPHA
0° AZIMUTH

PROPOSED SITE PRO 1, PART#
P3120 PIPE MOUNT (1 TOTAL)

PROPOSED PERFECT VISION, PART#
PV-DC-PTPC-3030-12
STAND-OFF MOUNT (OR CONMAT
APPROVED EQUIVALENT) (2 TOTAL)

PROPOSED PERFECT VISION, PART#
PV-DC-PTPC-3030-24
STAND-OFF MOUNT (OR CONMAT
APPROVED EQUIVALENT) (2 TOTAL)

PROPOSED SITE PRO 1, PART#
P3120 PIPE MOUNT (1 TOTAL)

DOUBLE UP EXISTING TOP HANDRAIL
ANGLE WITH NEW L2x2x1/4x68"
LONG (VERIFY LENGTH IN FIELD)
ANGLE WITH 3/8"x1-1/4" LONG
STITCH BOLTS AT 8" O.C.
(1 PER SECTOR, 3 TOTAL)

SECTOR GAMMA
235° AZIMUTH

SECTOR BETA
110° AZIMUTH

PROPOSED L2x2x1/4x66" LONG
(VERIFY LENGTH IN FIELD) ANGLE
TO REPLACE EXISTING UNISTRUT
(2 PER SECTOR, 6 TOTAL)

PROPOSED SITE PRO 1, PART#
PSA3 STAND-OFF MOUNT (OR
CONMAT APPROVED EQUIVALENT)

PROPOSED SITE PRO 1, PART#
SCP10W PIPE TO PIPE MOUNT KIT
(1 TOTAL)

PROPOSED SITE PRO 1, PART#
P3096 PIPE MOUNT (1 TOTAL)

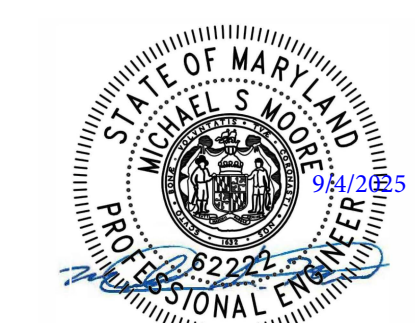
1 PROPOSED ANTENNA LAYOUT
S-1 SCALE: 1/2" = 1'-0" 0 1'-0" 2'-0" 4'-0" 6'-0"



7150 STANDARD DRIVE
HANOVER, MD 21076



Speed, Quality, Credibility
1825 W WALNUT HILL LANE, SUITE 120
IRVING, TEXAS 75038
1-855-669-5421



I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No: 8222 Exp. Date: 1/7/2026

DRAWING SCALES ARE INTENDED FOR 11"x17" SIZE PRINTED MEDIA ONLY. ALL OTHER PRINTED SIZES ARE DEEMED "NOT TO SCALE".

SUBMITTALS			
REV	DATE	DESCRIPTION	BY
0	05/29/25	FOR REVIEW	RC
1	08/08/25	REVISED	RC

SITE INFORMATION

SITE NAME:
BRANCHVILLE

USID:
98501

FA NUMBER:
10092075

SITE ADDRESS:
6900 POWDER MILL ROAD,
TAKOMA PARK, MD 20912
PRINCE GEORGES COUNTY

SHEET DESCRIPTION

PROPOSED ANTENNA LAYOUT

SHEET No.
S-1

SUBMITTALS

REV	DATE	DESCRIPTION	BY
0	05/29/25	FOR REVIEW	RC
1	08/08/25	REVISED	RC

SITE INFORMATION

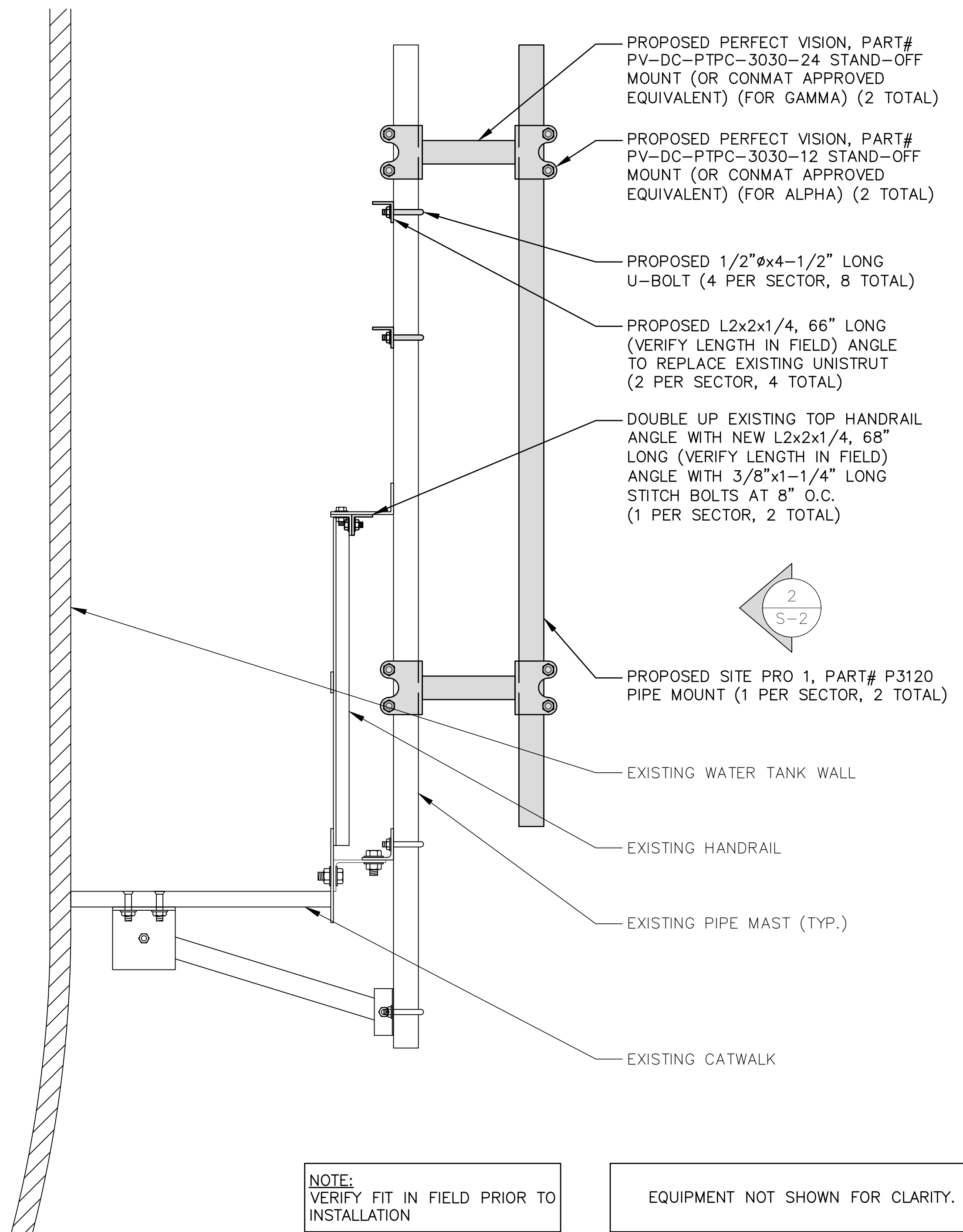
SITE NAME:
BRANCHVILLE
USID:
98501
FA NUMBER:
10092075
SITE ADDRESS:
6900 POWDER MILL ROAD,
TAKOMA PARK, MD 20912
PRINCE GEORGES COUNTY

SHEET DESCRIPTION

MOUNT MODIFICATION

SHEET No.

S-2



NOTE:
VERIFY FIT IN FIELD PRIOR TO
INSTALLATION

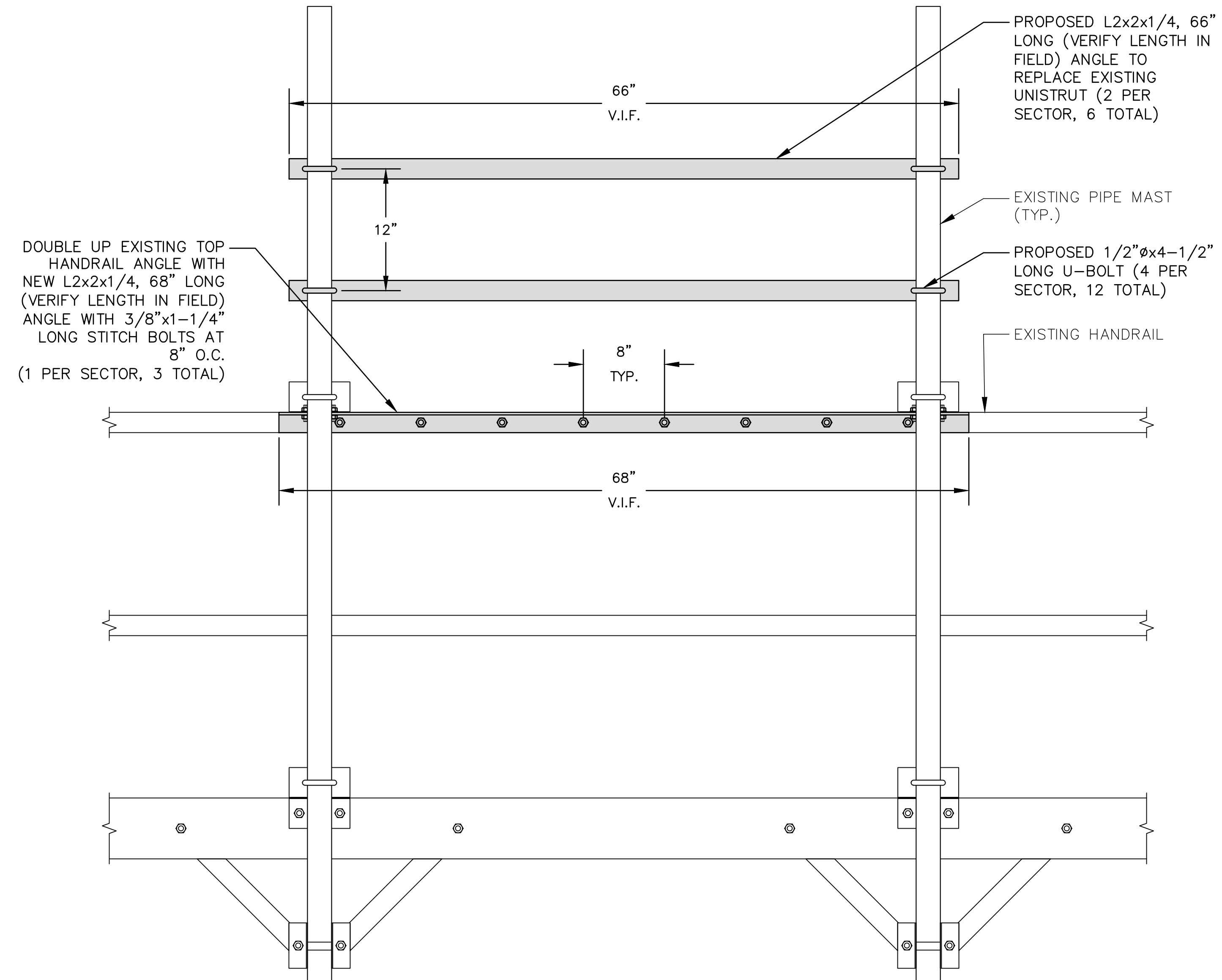
EQUIPMENT NOT SHOWN FOR CLARITY.

1 PROPOSED SIDE VIEW (ALPHA & GAMMA SECTORS)
S-2 SCALE: 1 1/2" = 1'-0"



BILL OF MATERIALS		
QTY.	MATERIAL/PART NO.	DESCRIPTION
6 TOTAL	-	L2x2x1/4, 66" LONG ANGLE
3 TOTAL	-	L2x2x1/4, 68" LONG ANGLE
12 TOTAL	UB1212	1/2" U-BOLT
24 TOTAL	SS38114	3/8" STITCH BOLT
2 TOTAL	PV-DC-PTPC-3030-12	STAND-OFF MOUNT
2 TOTAL	PV-DC-PTPC-3030-24	STAND-OFF MOUNT
1 TOTAL	PSA3	STAND-OFF MOUNT
1 TOTAL	P3096	PIPE MAST

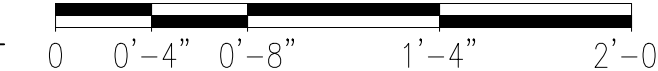
BILL OF MATERIALS		
QTY.	MATERIAL/PART NO.	DESCRIPTION
2 TOTAL	P3120	PIPE MAST
1 TOTAL	SCP10W	PIPE TO PIPE CLAMP



NOTE:
VERIFY FIT IN FIELD PRIOR TO
INSTALLATION

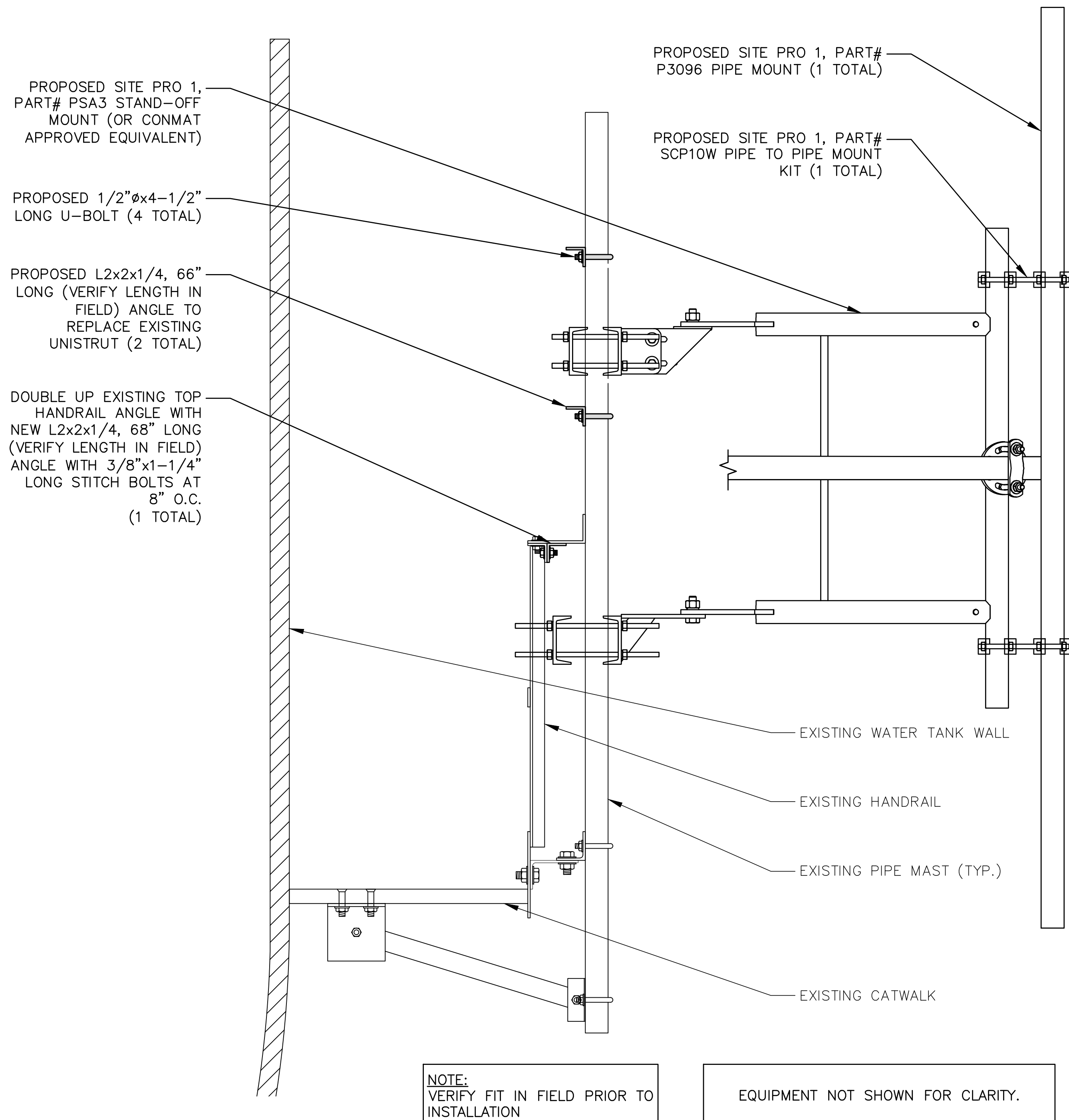
EQUIPMENT NOT SHOWN FOR CLARITY.

2 PROPOSED ELEVATION VIEW (ALL SECTORS)
S-2 SCALE: 1 1/2" = 1'-0"



GENERAL NOTES:

1. ALL STEEL ANGLES TO BE ASTM A36 (GR 36) OR BETTER.
2. ALL STEEL BEAMS TO BE ASTM A992 OR BETTER.
3. HOT DIP GALVANIZE LEVEL 3 PARTS.
4. APPLY TWO COATS OF GALVICON TO ALL FIELD CUT OR DRILL EDGES.
5. ALL BOLTS TO MAINTAIN 1" EDGE DISTANCE.



PROPOSED SITE PRO 1, PART# PSA3 STAND-OFF MOUNT (OR CONMAT APPROVED EQUIVALENT)

PROPOSED 1/2"Øx4-1/2" LONG U-BOLT (4 TOTAL)

PROPOSED L2x2x1/4, 66" LONG (VERIFY LENGTH IN FIELD) ANGLE TO REPLACE EXISTING UNISTRUT (2 TOTAL)

DOUBLE UP EXISTING TOP HANDRAIL ANGLE WITH NEW L2x2x1/4, 68" LONG (VERIFY LENGTH IN FIELD) ANGLE WITH 3/8"x1-1/4" LONG STITCH BOLTS AT 8" O.C. (1 TOTAL)

PROPOSED SITE PRO 1, PART# P3096 PIPE MOUNT (1 TOTAL)

PROPOSED SITE PRO 1, PART# SCP10W PIPE TO PIPE MOUNT KIT (1 TOTAL)

EXISTING WATER TANK WALL

EXISTING HANDRAIL

EXISTING PIPE MAST (TYP.)

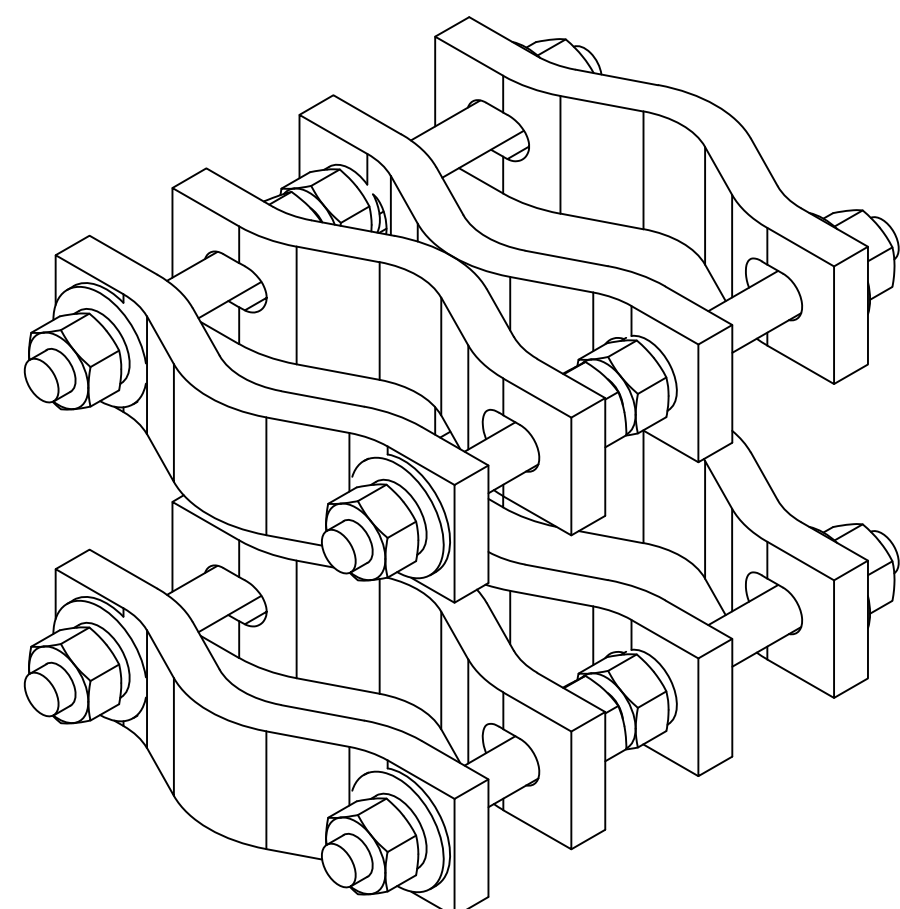
EXISTING CATWALK

NOTE: VERIFY FIT IN FIELD PRIOR TO INSTALLATION

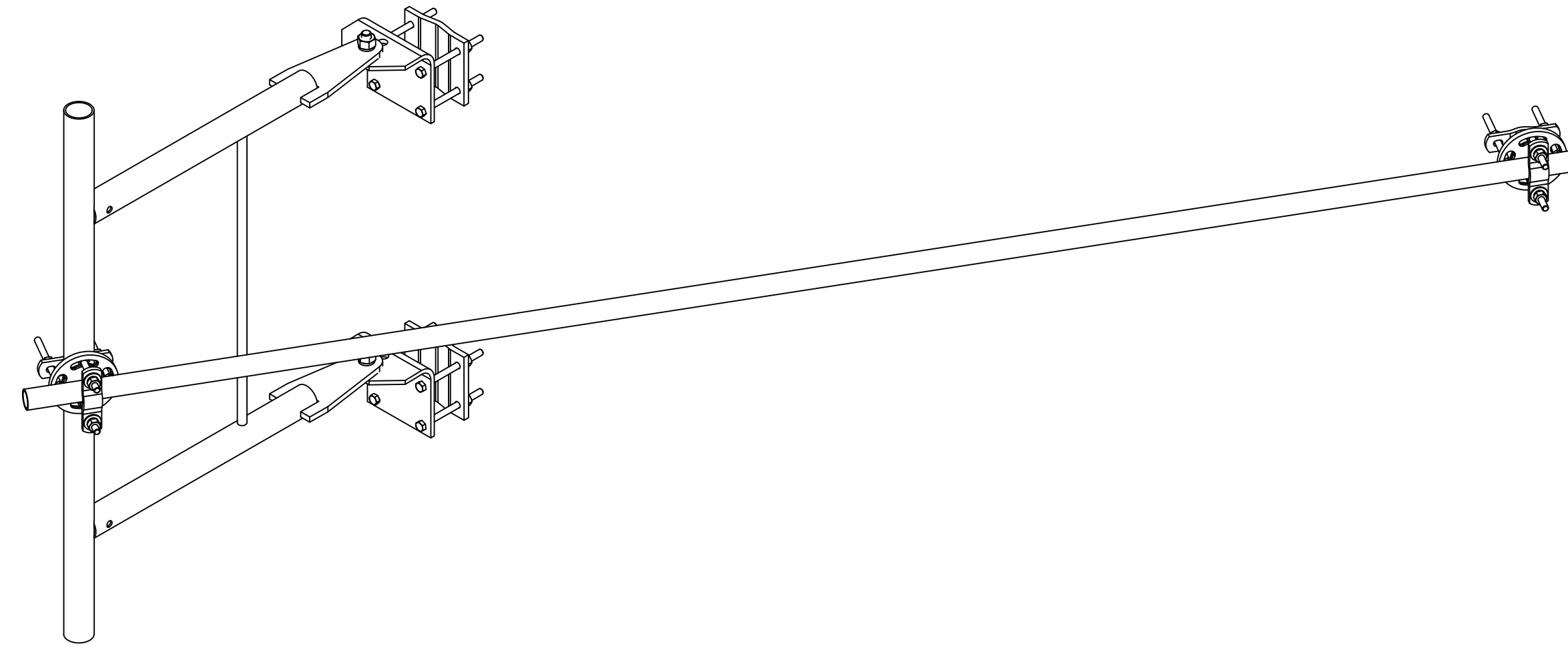
EQUIPMENT NOT SHOWN FOR CLARITY.

1 PROPOSED SIDE VIEW (BETA SECTOR)
S-3 SCALE: 1 1/2" = 1'-0"

MOUNT KIT	
PART NUMBER	DESCRIPTION
SCP10W	PIPE TO PIPE CLAMP SET

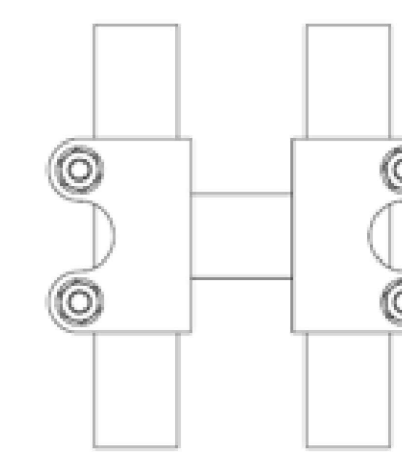


MOUNT KIT	
PART NUMBER	DESCRIPTION
PSA3	STAND-OFF MOUNT

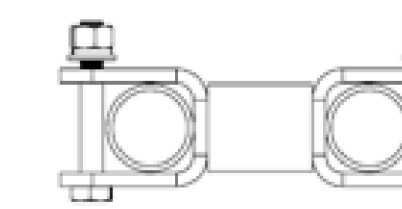


PV-DC-PTPC Options

Part Number	Standoff Distance (in)	Pipe 1 Size (OD, in)	Pipe 2 Size (OD, in)	Description
PV-DC-PTPC-2020-6	6			Dual Crossover pipe to pipe connection; 2 3/8" - 2 3/8"; 6" Standoff
PV-DC-PTPC-2020-12	12			Dual Crossover pipe to pipe connection; 2 3/8" - 2 3/8"; 12" Standoff
PV-DC-PTPC-2020-18	18	2-3/8"	2-3/8"	Dual Crossover pipe to pipe connection; 2 3/8" - 2 3/8"; 18" Standoff
PV-DC-PTPC-2020-24	24			Dual Crossover pipe to pipe connection; 2 3/8" - 2 3/8"; 24" Standoff
PV-DC-PTPC-2025-6	6			Dual Crossover pipe to pipe connection; 2 3/8" - 2 7/8"; 6" Standoff
PV-DC-PTPC-2025-12	12			Dual Crossover pipe to pipe connection; 2 3/8" - 2 7/8"; 12" Standoff
PV-DC-PTPC-2025-18	18	2-3/8"	2-7/8"	Dual Crossover pipe to pipe connection; 2 3/8" - 2 7/8"; 18" Standoff
PV-DC-PTPC-2025-24	24			Dual Crossover pipe to pipe connection; 2 3/8" - 2 7/8"; 24" Standoff
PV-DC-PTPC-2030-6	6			Dual Crossover pipe to pipe connection; 2 7/8" - 2 7/8"; 6" Standoff
PV-DC-PTPC-2030-12	12			Dual Crossover pipe to pipe connection; 2 7/8" - 2 7/8"; 12" Standoff
PV-DC-PTPC-2030-18	18	2-3/8"	3-1/2"	Dual Crossover pipe to pipe connection; 2 3/8" - 3 1/2"; 18" Standoff
PV-DC-PTPC-2030-24	24			Dual Crossover pipe to pipe connection; 2 3/8" - 3 1/2"; 24" Standoff
PV-DC-PTPC-2525-6	6			Dual Crossover pipe to pipe connection; 2 7/8" - 2 7/8"; 6" Standoff
PV-DC-PTPC-2525-12	12			Dual Crossover pipe to pipe connection; 2 7/8" - 2 7/8"; 12" Standoff
PV-DC-PTPC-2525-18	18	2-7/8"	2-7/8"	Dual Crossover pipe to pipe connection; 2 7/8" - 2 7/8"; 18" Standoff
PV-DC-PTPC-2525-24	24			Dual Crossover pipe to pipe connection; 2 7/8" - 2 7/8"; 24" Standoff
PV-DC-PTPC-2530-6	6			Dual Crossover pipe to pipe connection; 2 7/8" - 3 1/2"; 6" Standoff
PV-DC-PTPC-2530-12	12			Dual Crossover pipe to pipe connection; 2 7/8" - 3 1/2"; 12" Standoff
PV-DC-PTPC-2530-18	18	2-7/8"	3-1/2"	Dual Crossover pipe to pipe connection; 2 7/8" - 3 1/2"; 18" Standoff
PV-DC-PTPC-2530-24	24			Dual Crossover pipe to pipe connection; 2 7/8" - 3 1/2"; 24" Standoff
PV-DC-PTPC-3030-6	6			Dual Crossover pipe to pipe connection; 3 1/2" - 3 1/2"; 6" Standoff
PV-DC-PTPC-3030-12	12			Dual Crossover pipe to pipe connection; 3 1/2" - 3 1/2"; 12" Standoff
PV-DC-PTPC-3030-18	18	3-1/2"	3-1/2"	Dual Crossover pipe to pipe connection; 3 1/2" - 3 1/2"; 18" Standoff
PV-DC-PTPC-3030-24	24			Dual Crossover pipe to pipe connection; 3 1/2" - 3 1/2"; 24" Standoff



Side View



Top View

PERFECT

45 YEARS

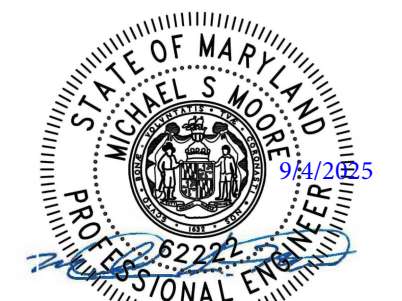
smartlink

AT&T

7150 STANDARD DRIVE
HANOVER, MD 21076

Trylon

Speed, Quality, Credibility
1825 W WALNUT HILL LANE, SUITE 120
IRVING, TEXAS 75038
1-855-669-5421



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License No. 62222 Exp. Date: 1/7/2026

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PRINCE GEORGES COUNTY

SHEET DESCRIPTION

DETAILS

SHEET No.

S-3