

174987.001.01.0001_C11277 5.2.23.dwg -- Sheet: T-1 -- User: kimgrove -- May 05, 2025 -- 11:16am



SITE NAME:
EAST HADDAM HAYWARDVILLE RD

SITE ID: CTL01277

USID: 100431

FA NUMBER: 10128075

IWM	PTN
WSCTB0029762	2051A1HHGY
WSCTB0029777	2051A1HLF2
WSCTB0029787	2051A1HJSD
WSCTB0029773	2051A1HJ8Q
WSCTB0029651	2051A1HHLW

EXISTING 180'-0" MONOPOLE

5G NR 1DR-1

RF DATA SHEET

RFDS ID

RFDS-84422

PROFESSIONAL CERTIFICATION:

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF CONNECTICUT, LICENSE NO.: 23924, EXPIRATION DATE: 1/31/2027.



2 ASH STREET, SUITE #3000
CONSHOHOCKEN, PA 19428

USID: 100431
FA: 10128075
**EAST HADDAM
HAYWARDVILLE
RD**
41 HAYWARDVILLE ROAD
EAST HADDAM, CT 06423
EXISTING MONOPOLE

PROJECT SUMMARY

TOWER OWNER: AT&T
ADDRESS: 500 ENTERPRISE DRIVE, SUITE 3A
EAST HADDAM, CT 06423

SITE NUMBER: CTL01277

SITE ADDRESS: 41 HAYWARDVILLE ROAD
EAST HADDAM, CT 06423

CUSTOMER/APPLICANT: AT&T WIRELESS
1425 US HWY 206, STE N2C04A
BEDMINSTER, NJ 07921

NAD83

LATITUDE: 41.491139° N
LONGITUDE: 72.354694° W

JURISDICTION: TOWN OF EAST HADDAM / CONNECTICUT SITING
COUNCIL

COUNTY: MIDDLESEX

GROUND ELEVATION: 470' AMSL

OCCUPANCY TYPE: UNMANNED

A.D.A. COMPLIANCE: FACILITY IS UNMANNED AND NOT
FOR HUMAN HABITATION

CONSTRUCTION TYPE: II-B

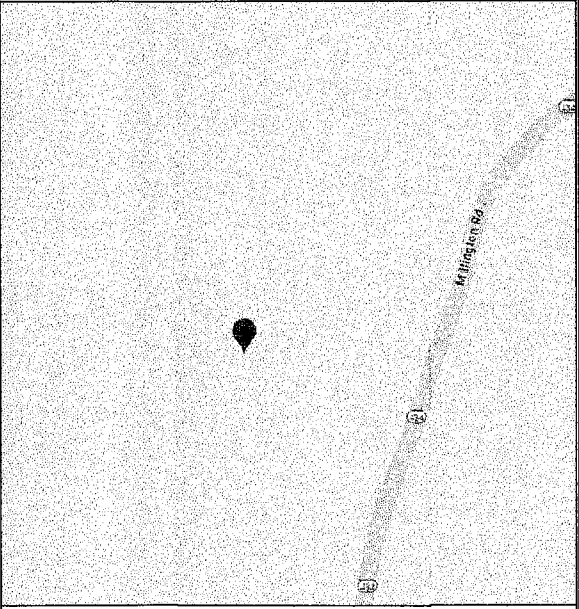
OCCUPANCY GROUP: U

AREA MAP



NO SCALE

LOCATION MAP



NO SCALE

DRAWING INDEX

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ATTACHED	MOUNT MODIFICATION DRAWINGS	

PROJECT DESCRIPTION

TOWER SOW:

1. REMOVE (9) ANTENNAS, (3) RRHs AND (6) TMAs
2. INSTALL (6) TPA65R-BU8DV2B-K ANTENNAS
3. INSTALL (3) 4490 B5/B12A RRHs
4. INSTALL (3) 4890 B25/B66A RRHs
5. INSTALL (3) 4494 B14/B29 RRHs
6. INSTALL (1) DC9-48-60-24-8C-EV SQUID
7. INSTALL (1) FIBER TRUNK AND (1) DC TRUNK IN 2" INNERDUCT
8. INSTALL (6) 2" STD. X 10'-0" MAST PIPES W/ (6) SCX7-U CROSSOVER PLATE KITS
9. INSTALL (6) 2" STD. X 10'-0" EQUIPMENT PIPES W/ (3) MUK-MSK6 DUAL PIPE ATTACHMENT KITS
10. INSTALL MOUNT MODIFICATIONS PER MOUNT MODIFICATION DRAWINGS BY B+T GROUP DATED 3/26/25

GROUND SOW:

1. REMOVE (1) ABSOLYTE BATTERY STACK
2. REMOVE (12) POWERWAVE - CM1007-DBPXC-003 DIPLEXERS
3. REMOVE ALL NOKIA BASEBAND EQUIPMENT
4. INSTALL (5) -48/-58V CONVERTERS IN VERTIV 7100
5. INSTALL (2) -48V RECTIFIERS IN VERTIV 7100
6. INSTALL DC12-RM IN LTE RELAY RACK
7. INSTALL NEW ERICSSON BBU EQUIPMENT

CONTACT INFORMATION

A&E FIRM: B+T GROUP
1717 S. BOULDER, STE. 300
TULSA, OK 74119
CONTACT: JASON TOWNLEY
EMAIL: JGTOWNLEY@BTGRP.COM

ELECTRIC PROVIDER: EVERSOURCE
ENERGY
PHONE: (888) 783-6617

CONSTRUCTION PM:
CONTACT: DALE VANDEWALKER
EMAIL: DALE.VANDEWALKER@US.AMENTUM.COM

TELCO PROVIDER: N/A
PHONE:

DRIVING DIRECTIONS

DEPART 1425 US HWY 206, BEDMINSTER, NJ ON ...
HEAD NORTHEAST TOWARD SOMERSET CENTER. CONTINUE ONTO SOMERSET CENTER. TURN RIGHT ONTO US-206 S. USE THE RIGHT LANE
TO MERGE WITH I-287 S VIA THE RAMP TO I-78/SOMERVILLE/PRINCETON. MERGE WITH I-287 S. TAKE EXIT 21A TO MERGE WITH I-78 E
TOWARD N.Y.CITY. KEEP LEFT TO CONTINUE ON I-78 EXPRESS E/PHILLIPSBURG-NEWARK EXPY. I-78 EXPRESS E/PHILLIPSBURG-NEWARK
EXPY TURNS LEFT AND BECOMES I-78 E/PHILLIPSBURG-NEWARK EXPY. USE THE MIDDLE LANE TO TAKE THE NEW JERSEY TURNPIKE EXIT.
USE THE LEFT 2 LANES TO TURN SLIGHTLY LEFT TO MERGE WITH I-95 N. CONTINUE STRAIGHT TO STAY ON I-95 N (SIGNS FOR GEORGE
WASHINGTON BRG/FORT LEE). CONTINUE ONTO US-9 N. CONTINUE ONTO I-95 LOWER LEVEL N/U.S. 1 LOWER LEVEL N. KEEP RIGHT TO
CONTINUE ON I-95 LOWER LEVEL N/TRANS-MANHATTAN EXPY/U.S. 1 LOWER LEVEL N. I-95 LOWER LEVEL N/TRANS-MANHATTAN
EXPY/U.S. 1 LOWER LEVEL N TURNS RIGHT AND BECOMES I-95 N. USE THE LEFT 2 LANES TO TURN SLIGHTLY LEFT TO STAY ON I-95 N
(SIGNS FOR INTERSTATE 95 N/NEW HAVEN). TAKE EXIT 70 FOR US-1/CT-156 TOWARD OLD LYME. USE THE LEFT 2 LANES TO TURN
SLIGHTLY LEFT ONTO THE RAMP TO FLORENCE GRISWOLD MUSEUM/LYME ACADEMY OF FINE ARTS. USE ANY LANE TO TURN LEFT ONTO
CT-156 W/US-1 N. TURN RIGHT ONTO CT-82 E. TURN LEFT ONTO STATE HWY 434. TURN LEFT TO STAY ON STATE HWY 434.

CODE COMPLIANCE

ALL WORK SHALL BE PERFORMED AND MATERIALS 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:

CODE TYPE	CODE
BUILDING/DWELLING	2022 CONNECTICUT SBC/ 2021 IBC
STRUCTURAL	2022 CONNECTICUT SBC/ 2021 IBC
MECHANICAL	2022 CONNECTICUT SBC/ 2021 IMC
ELECTRICAL	2022 CONNECTICUT SBC/ 2020 NEC

DO NOT SCALE DRAWINGS

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

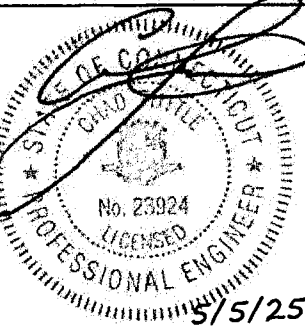
SEE SHEET GN-1 FOR ADDITIONAL CONSTRUCTION NOTES



CALL CONNECTICUT ONE CALL
(800) 922-4455
CALL 3 WORKING DAYS
BEFORE YOU DIG!



MTS ENGINEERING P.L.L.C.
PEC.0002304
Expires 4/11/26



IT IS A VIOLATION OF LAW FOR ANY PERSON,
UNLESS THEY ARE ACTING UNDER THE DIRECTION
OF A LICENSED PROFESSIONAL ENGINEER,
TO ALTER THIS DOCUMENT.

SHEET NUMBER: REVISION:

T-1 **0**

PROJECT COMPLIANCE NOTES:

1. THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE AND IS NOT FOR HUMAN HABITAT. (NO HANDICAP ACCESS IS REQUIRED).
2. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH, BY AT&T TECHNICIANS.
3. NO NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS PROPOSAL, UNLESS DURING EMERGENCY.
4. OUTDOOR STORAGE AND SOLID WASTE CONTAINERS ARE NOT PROPOSED.
5. ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST AT&T SYSTEM GROUNDING STANDARDS. *TECHNICAL SPECIFICATION FOR CONSTRUCTION OF LTE SITES AND WILL FOLLOW AT&T GROUNDING AND BONDING REQUIREMENTS FOR NETWORK FACILITIES AT&T DOC ID ATT-TP-76416 AND AT&T POLICY LETTER ATT-CEM-13002.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED DURING CONSTRUCTION OPERATION.
7. THE CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
8. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM DRAWINGS PROVIDED BY THE APPLICANT REPRESENTATIVE. THE CONTRACTOR SHALL NOTIFY TURF VENDOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
9. NO ADDITIONAL PARKING IS PROPOSED. EXISTING ACCESS AND PARKING WILL BE USED.
10. NO ADDITIONAL LANDSCAPING IS PROPOSED AT THIS SITE.
11. ALL COAXIAL CABLE/FIBER AND DC CABLE INSTALLATION IS TO FOLLOW MANUFACTURER'S INSTRUCTION.

GREENFIELD GROUNDING NOTES:

ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.

THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS, THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.

THE SUBCONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS.

METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.

METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.

EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS; #2 AWG SOLID TINNED COPPER FOR OUTDOOR BTS.

CONNECTIONS TO THE GROUND BAR SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BAR ARE PERMITTED.

ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 AWG SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.

ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.

USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.

EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.

ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.

COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.

ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.

APPROVED ANTIOXIDANT COATINGS (I.E. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.

ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.

MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.

BOND ALL METALLIC OBJECTS WITHIN 6 FT. OF MAIN GROUND WIRES WITH 1-#2 AWG TIN-PLATED COPPER GROUND CONDUCTOR.

GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS, WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (E.G., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.

ELECTRICAL INSTALLATION NOTES:

ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.

CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.

WIRING, RACEWAY & SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.

ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.

CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.

EACH END OF EVERY POWER, POWER PHASE CONDUCTOR (I.E., HOTS), GROUNDING AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR APPROVED EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA.

ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH PLASTIC TAPE PER COLOR SCHEDULE. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (I.E. PANEL BOARD AND CIRCUIT ID'S).

PANEL BOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.

ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.

POWER, CONTROL AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET & DRY) OPERATION LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED UNLESS OTHERWISE SPECIFIED.

SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET AND DRY) OPERATION LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED UNLESS OTHERWISE SPECIFIED.

POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET AND DRY) OPERATION WITH OUTER JACKET LISTED OR LABELED FOR THE LOCATION USED UNLESS OTHERWISE SPECIFIED.

ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR APPROVED EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75° C (90° C IF AVAILABLE).

RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.

ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E. RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.

ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT) OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.

GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.

RIGID NONMETALLIC CONDUIT (I.E. RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.

LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.

CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.

CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.

WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS; SHALL BE PANDUIT TYPE E (OR APPROVED EQUAL); AND RATED NEMA 1 (OR BETTER).

EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL. SHALL MEET OR EXCEED UL 50 AND RATED NEMA 1 (OR BETTER) INDOORS OR NEMA 3R (OR BETTER) OUTDOORS.

METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.

NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.

THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.

THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.

INSTALL PLASTIC LABEL ON THE METER CENTER TO SHOW "AT&T WIRELESS".

PROJECT GENERAL NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:

TURF VENDOR-
CONTRACTOR-
OWNER-
OEM-










GENERAL CONTRACTOR (CONSTRUCTION)
AT&T
ORIGINAL EQUIPMENT MANUFACTURER
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
4. DRAWINGS PROVIDED HERE ARE NOT TO SCALE AND ARE INTENDED TO SHOW OUTLINE ONLY.
5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
6. "KITTING LIST" SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY TURF VENDOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE CONTRACTOR.
7. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
8. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE TURF VENDOR.
9. CONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWINGS.
10. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
11. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
12. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
13. CONSTRUCTION SHALL COMPLY WITH AT&T AND MANUFACTURER SPECIFICATIONS.
14. ALL ITEMS REMOVED FROM SERVICE ON SITES THAT HAVE AN AT&T ASSET TAG MUST BE LOGGED BACK IN WITH AT&T.

ABBREVIATIONS AND SYMBOLS:

ABBREVIATIONS:

AGL	ABOVE GRADE LEVEL
BTS	BASE TRANSCEIVER STATION
(E)	EXISTING
MIN.	MINIMUM
N.T.S.	NOT TO SCALE
REF	REFERENCE
RF	RADIO FREQUENCY
T.B.D.	TO BE DETERMINED
T.B.R.	TO BE RESOLVED
TYP	TYPICAL
REQ	REQUIRED
EGR	EQUIPMENT GROUND RING
AWG	AMERICAN WIRE GAUGE
MGB	MASTER GROUND BAR
EG	EQUIPMENT GROUND
BCW	BARE COPPER WIRE
SIAD	SMART INTEGRATED ACCESS DEVICE
GEN	GENERATOR
IGR	INTERIOR GROUND RING (HALO)
RBS	RADIO BASE STATION

SYMBOLS:

	SOLID GROUND BUS BAR
	SOLID NEUTRAL BUS BAR
	SUPPLEMENTAL GROUND CONDUCTOR
	2-POLE THERMAL-MAGNETIC CIRCUIT BREAKER
	SINGLE-POLE THERMAL-MAGNETIC CIRCUIT BREAKER
	CHEMICAL GROUND ROD
	TEST WELL
	DISCONNECT SWITCH
	METER



2 ASH STREET, SUITE #3000
CONSHOHOCKEN, PA 19428

USID: 100431
FA: 10128075
EAST HADDAM
HAYWARDVILLE
RD
41 HAYWARDVILLE ROAD
EAST HADDAM, CT 06423
EXISTING MONOPOLE

PROJECT NO: 174987.001.01

CHECKED BY: TDG

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
A	2/20/25	JS	PRELIMINARY REVIEW
B	3/12/25	BKR	PRELIMINARY REVIEW
0	5/5/25	BKR	CONSTRUCTION

MTS ENGINEERING P.L.L.C.
PEC.0002304
Expires 4/11/26



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SHEET NUMBER:

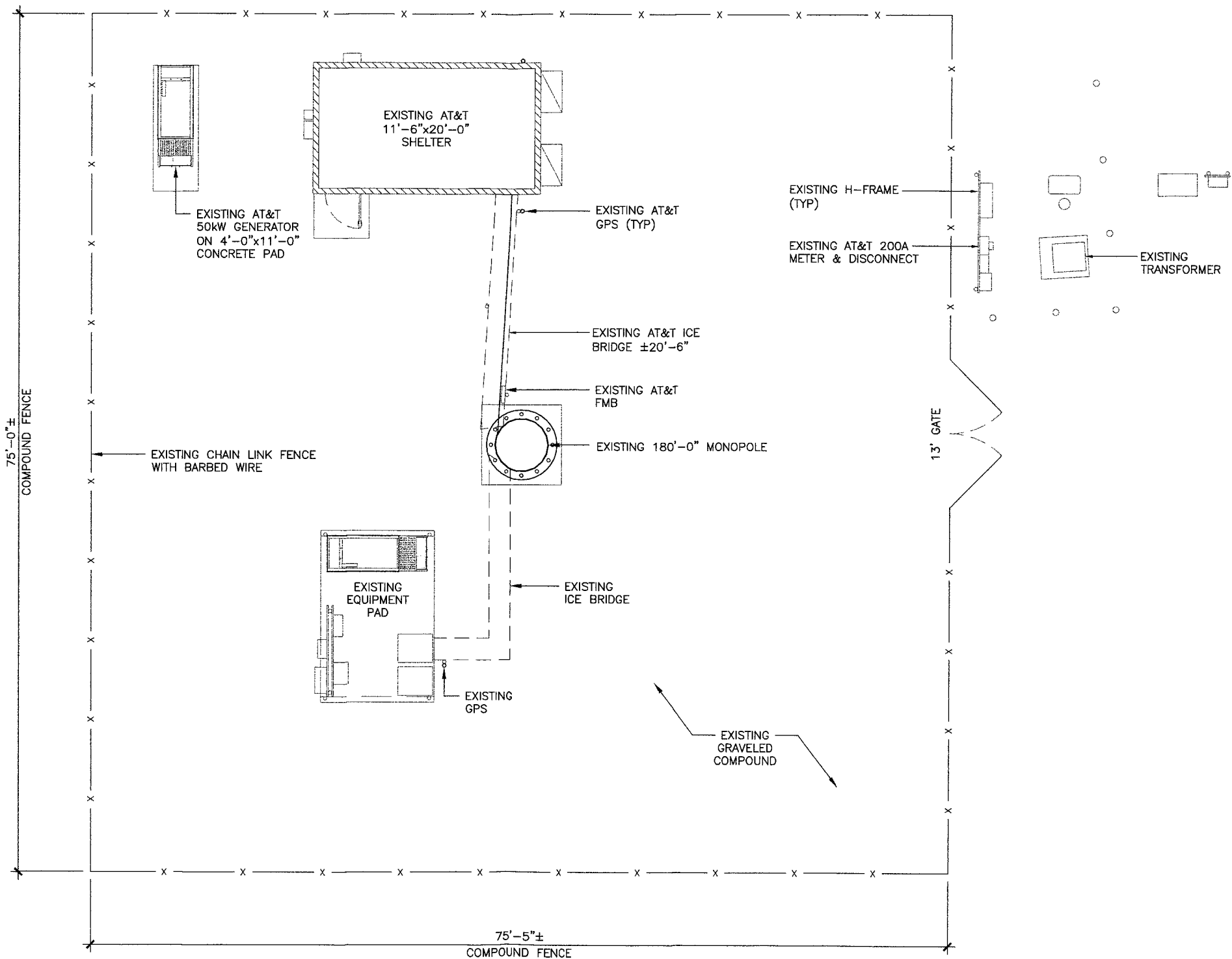
GN-1

REVISION:

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174997.001.01.0001_C11277 5.2.25.dwg -- Sheet C-1 -- User: tim.grove -- May 05, 2025 -- 11:16am

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 (B&T ENGINEERING) 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 (B&T ENGINEERING) 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 (B&T ENGINEERING).
15. THE SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOBS.



1 OVERALL SITE PLAN
SCALE: 0' 4' 8' 16' 32'



2 ASH STREET, SUITE #3000
CONSHOHOCKEN, PA 19428

USID: 100431
FA: 10128075
**EAST HADDAM
HAYWARDVILLE
RD**
41 HAYWARDVILLE ROAD
EAST HADDAM, CT 06423
EXISTING MONOPOLE

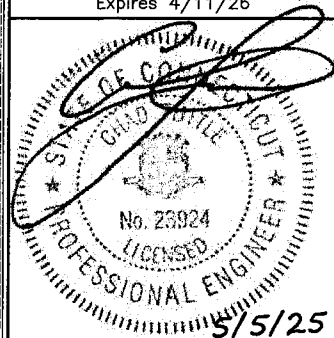
PROJECT NO: 174987.001.01

CHECKED BY: TDG

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
A	2/20/25	JS	PRELIMINARY REVIEW
B	3/12/25	BKR	PRELIMINARY REVIEW
O	5/5/25	BKR	CONSTRUCTION

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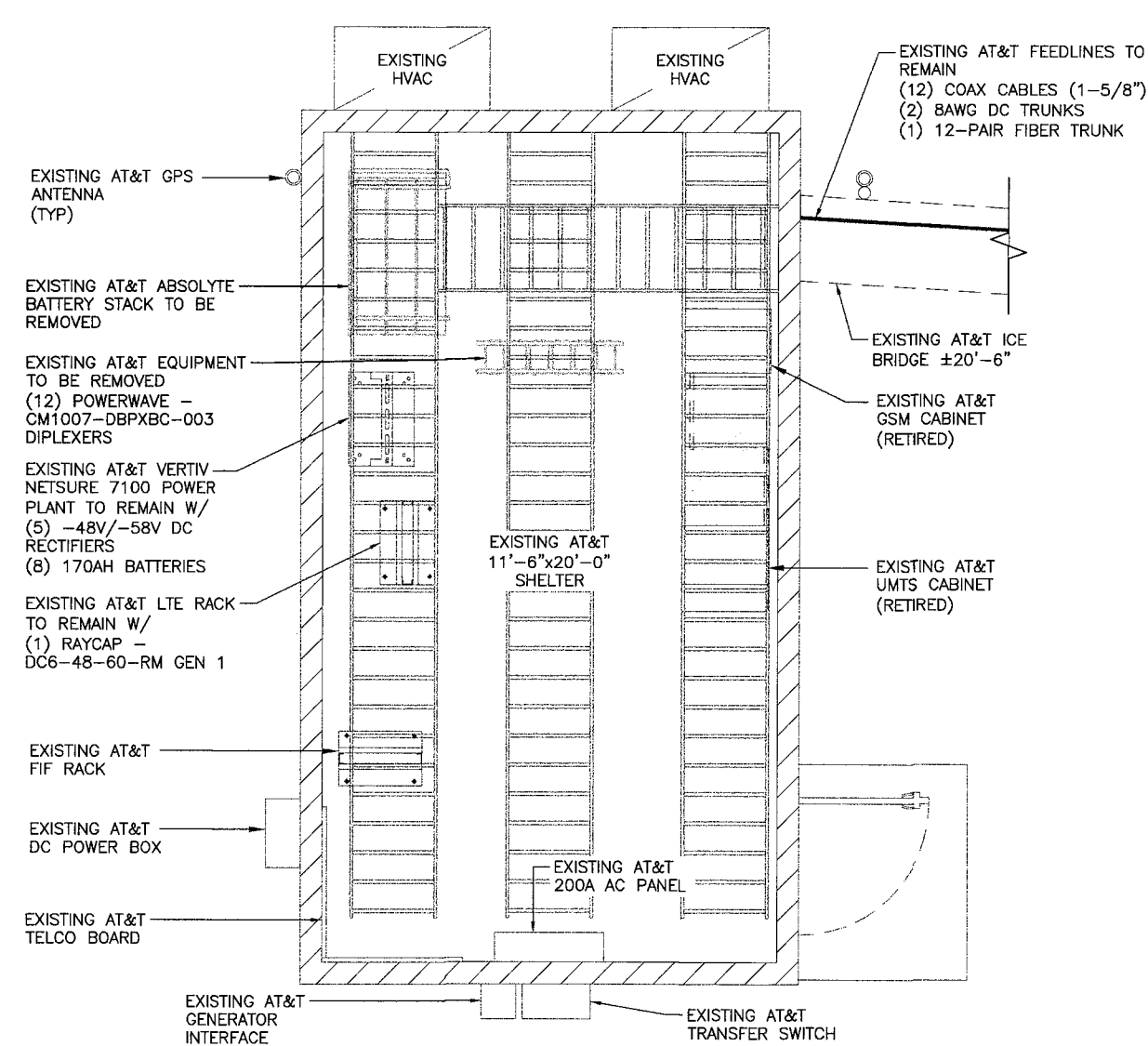
C-1 0

GROUND SCOPE OF WORK

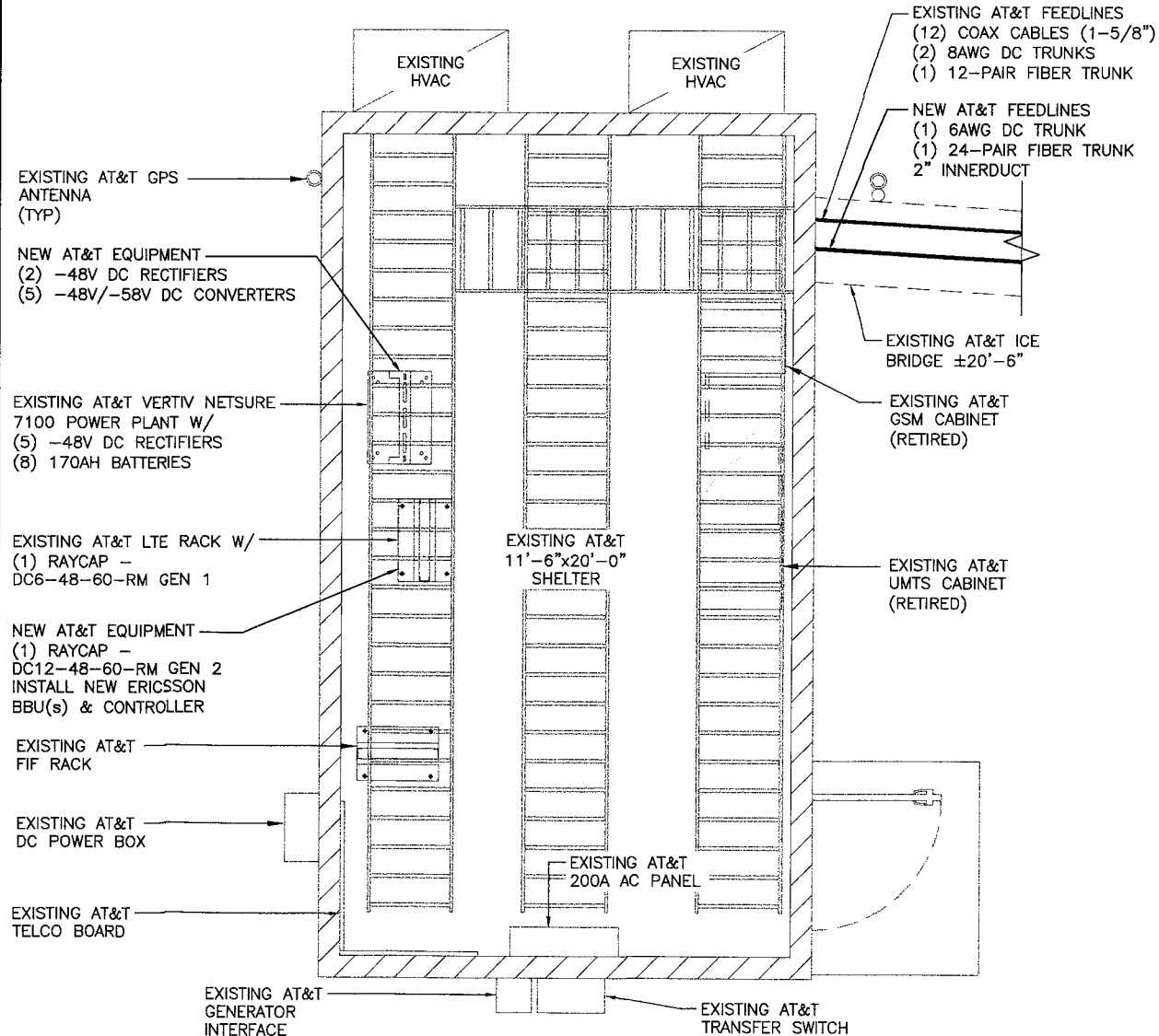
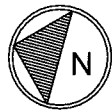
MONOPOLE, SHELTER

EXISTING ANT AZ - A 30 B 150 C 270
PROPOSED ANT AZ - A 30 B 150 C 270

- CIVIL SOW:
1. REMOVE (1) ABSOLYTE BATTERY STACK
 2. REMOVE (12) POWERWAVE - CM1007-DBPXBC-003 DIPLEXERS
 3. REMOVE ALL NOKIA BASEBAND EQUIPMENT
 4. INSTALL (5) -48/-58V CONVERTERS IN VERTIV 7100
 5. INSTALL (2) -48V RECTIFIERS IN VERTIV 7100
 6. INSTALL DC12-RM IN LTE RELAY RACK
 7. INSTALL NEW ERICSSON BBU EQUIPMENT



1 EXISTING EQUIPMENT PLAN
SCALE: 0' 1' 2' 4' 10'



2 FINAL EQUIPMENT PLAN
SCALE: 0' 1' 2' 4' 10'



2 ASH STREET, SUITE #3000
CONSHOHOCKEN, PA 19428

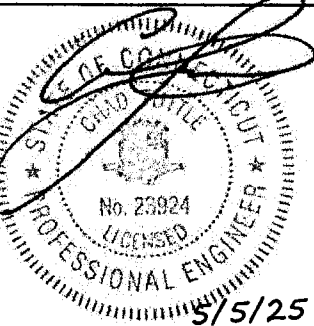
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EAST HADDAM, CT 06423
EXISTING MONOPOLE

PROJECT NO: 174987.001.01

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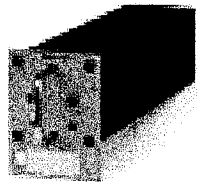
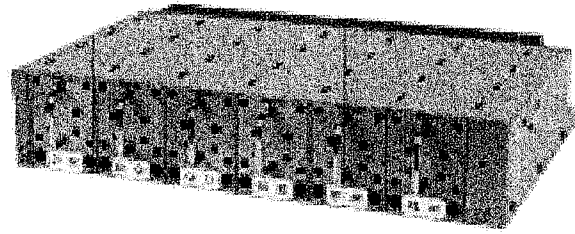


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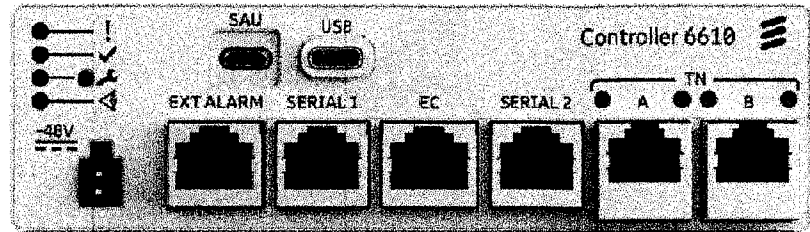
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RAYCAP - DC12-48-60-RM
DIMENSIONS: 3.48"x17.23"x15.40"
WEIGHT: 27 LBS

1 RACK-MOUNTED DC12 DETAIL
SCALE: N.T.S.

CONTROLLER 6610:
MANUFACTURER: ERICSSON
MODEL NO: CONTROLLER 6610
DIMENSIONS (HxWxD): 1.6"x5.5"x1.26"
WEIGHT: 0.28LBs



2 6610 SITE CONTROLLER
SCALE: N.T.S.

BB6672:
MANUFACTURER: ERICSSON
MODEL NO: 6672
DIMENSIONS (HxWxD): 1.7"x17.4"x9.8"
WEIGHT: 13.2LBs

- INSTALL INSIDE NEW RACK/CABINET.
- INSTALLATION INTO EXISTING CABINET OR RACK REQUIRES NO SPECIAL INSPECTIONS.



3 6672 BBU
SCALE: N.T.S.



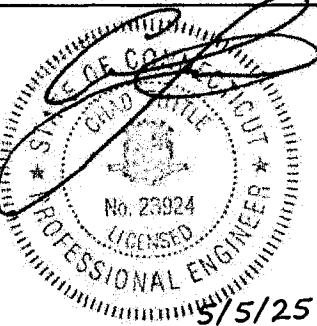
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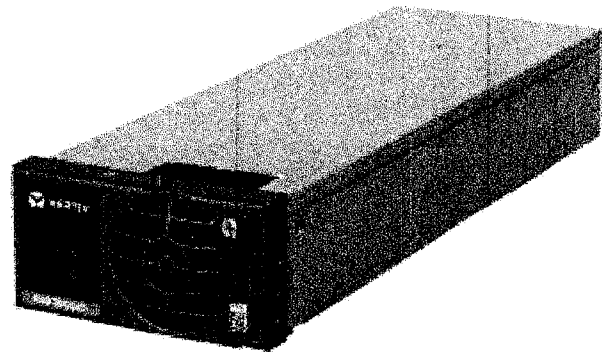
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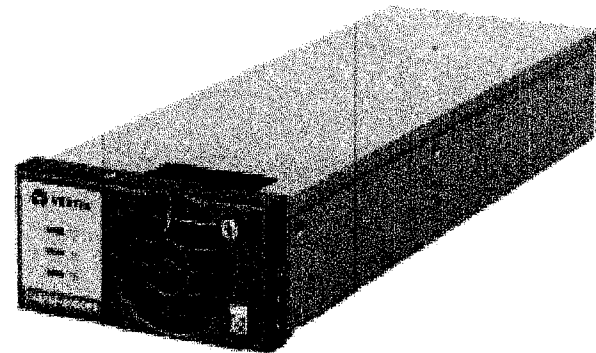
SHEET NUMBER: REVISION:

C-3 0



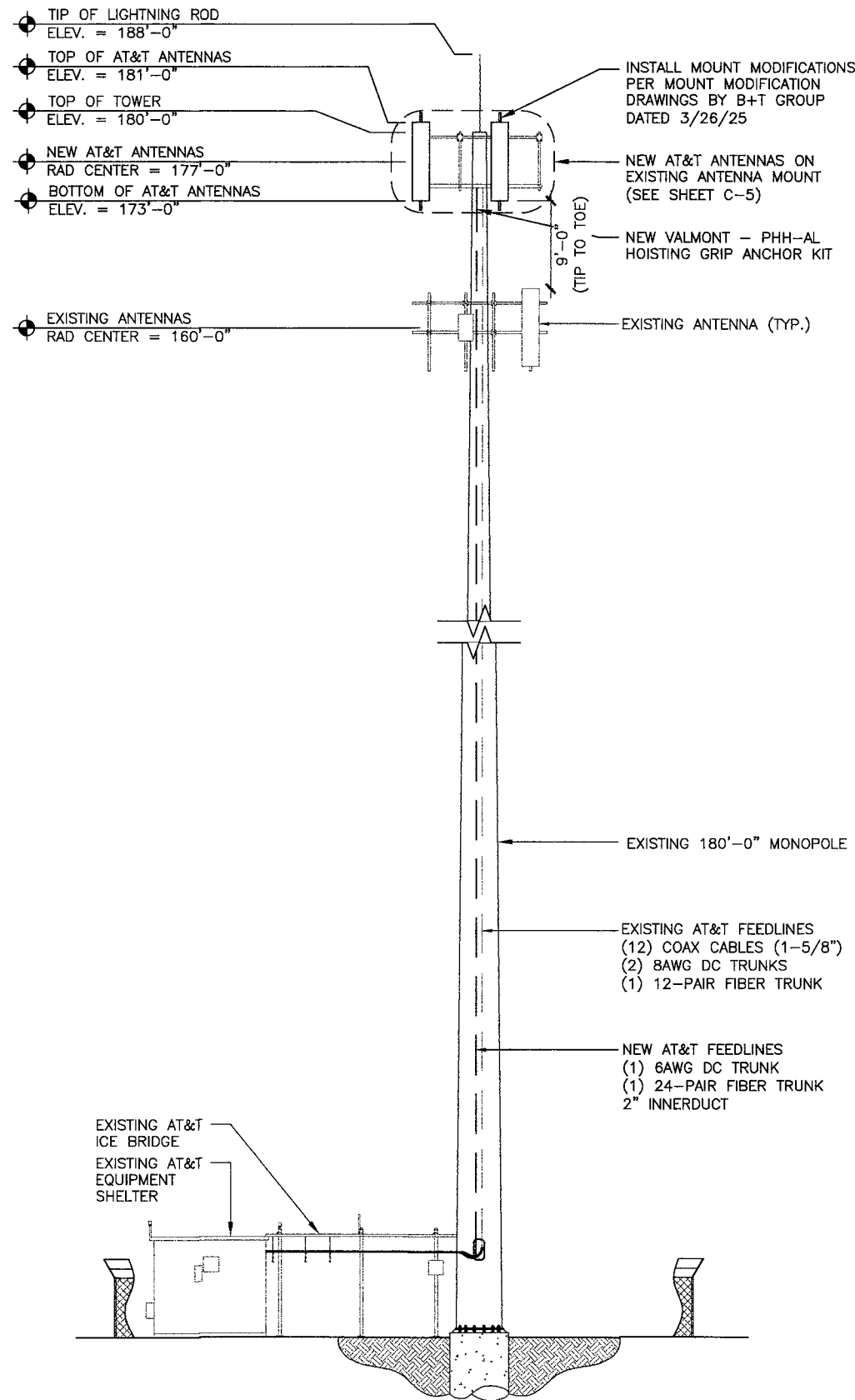
VERTIV - R48-2000e3 eSURE RECTIFIER
WEIGHT: 2.49 LBS
SIZE (HxWxD): 1.61x3.33x9.94 IN.

5 VERTIV -48V RECTIFIER DETAIL
SCALE: N.T.S.



VERTIV - C48/58 - 2000P3 eSURE CONVERTER
WEIGHT: 2.49 LBS
SIZE (HxWxD): 1.61x3.33x9.94 IN.

6 VERTIV -48V/-58V CONVERTER DETAIL
SCALE: N.T.S.



1 TOWER ELEVATION
SCALE: 0' 8' 16' 32' 48'

NOTE:
THESE DRAWINGS ARE NOT INTENDED TO REFLECT THE STRUCTURAL INTEGRITY OF THE TOWER. THE PROPOSED ANTENNAS AND TRANSMISSION LINES SHOWN ARE REPRESENTATIVE IN NATURE AND DO NOT REFLECT THE ACTUAL CONFIGURATIONS REQUIRED. THE CONTRACTOR SHALL REFER TO THE STRUCTURAL ANALYSIS OF THIS TOWER SITE FOR THE APPROVED LOCATION AND CONFIGURATION OF ALL ANTENNAS AND TRANSMISSION LINES. ALL ANTENNAS MUST BE MOUNTED AND THE TRANSMISSION LINES CONFIGURED IN STRICT ACCORDANCE WITH THE STRUCTURAL ANALYSIS.

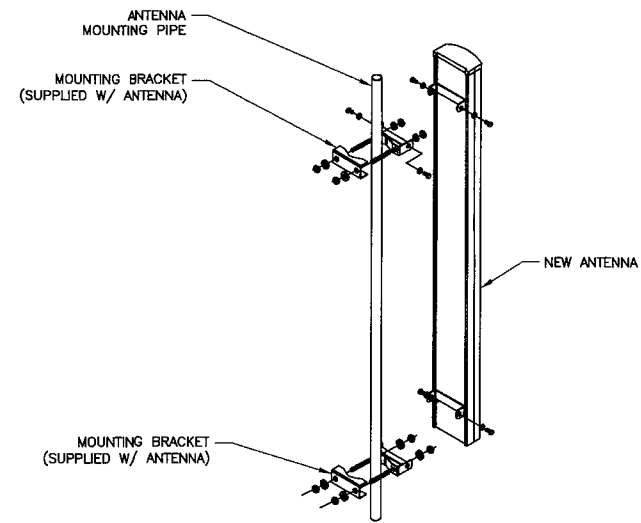
EXISTING TOWER IS SUFFICIENT PER STRUCTURAL ANALYSIS BY GPD ENGINEERING DATED 4/30/25.

EXISTING MOUNT TO BE MODIFIED PER MOUNT ANALYSIS BY B+T GROUP DATED 4/4/25.

INSTALLER NOTE:
EXISTING TOWER SECTION FROM 70'-0" TO 130'-0" NOT SHOWN FOR CLARITY.

2 NOT USED
SCALE: N.T.S.

INSTALLER NOTE:
ALL PIPES, BRACKETS, AND MISCELLANEOUS HARDWARE TO BE GALVANIZED UNLESS NOTED OTHERWISE.



3 ANTENNA MOUNTING DETAIL
SCALE: N.T.S.



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FA: 10128075
**EAST HADDAM
HAYWARDVILLE
RD**
41 HAYWARDVILLE ROAD
EAST HADDAM, CT 06423
EXISTING MONOPOLE

PROJECT NO: 174987.001.01
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SHEET NUMBER: C-4
REVISION: 0

MONOPOLE, SHELTER

EXISTING ANT AZ - A 30 B 150 C 270
PROPOSED ANT AZ - A 30 B 150 C 270

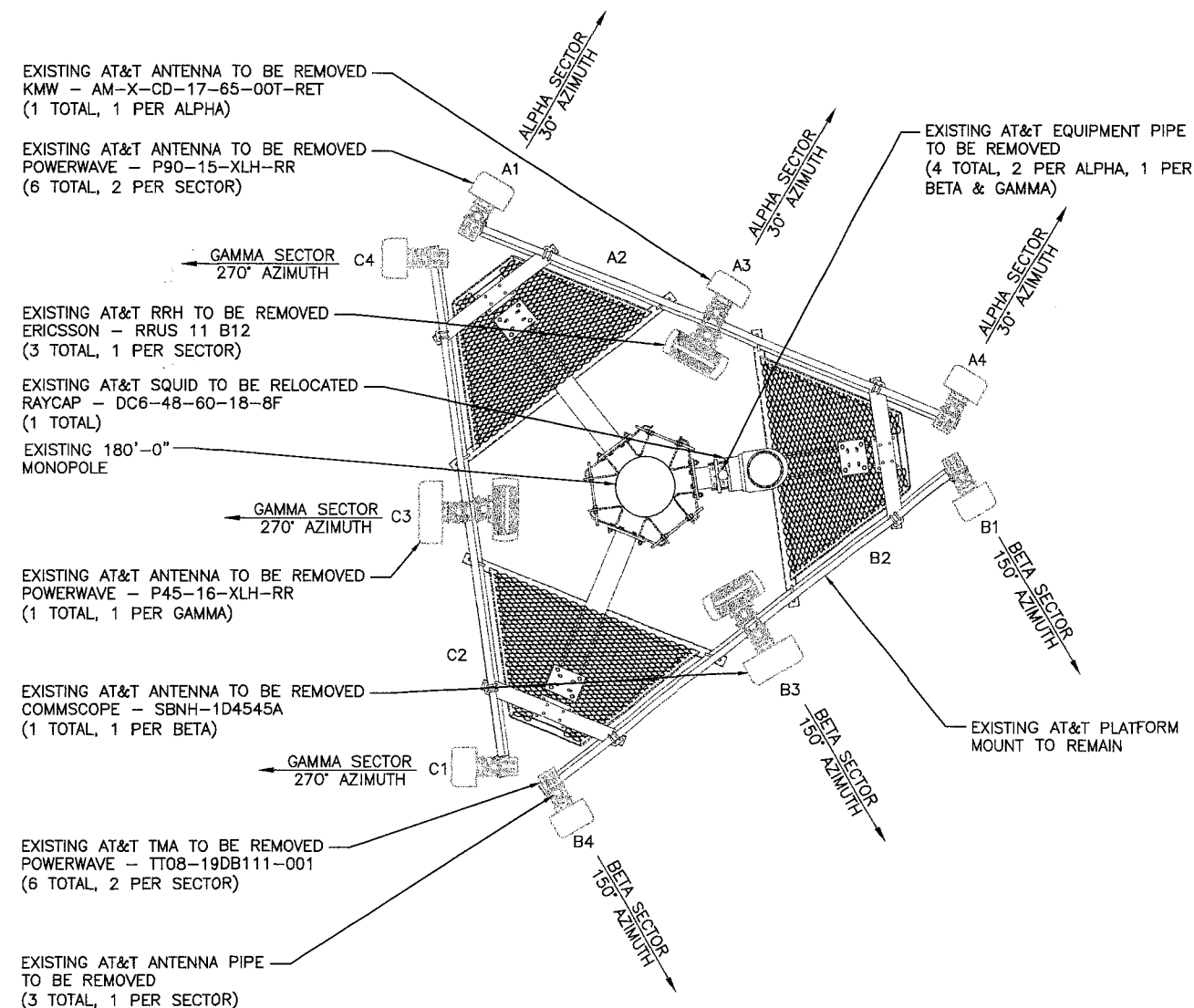
TOWER TOP SOW:

1. REMOVE (9) ANTENNAS, (3) RRHS AND (6) TMAS
2. INSTALL (6) TPA65R-BU8DV2B-K ANTENNAS
3. INSTALL (3) 4490 B5/B12A RRHS
4. INSTALL (3) 4890 B25/B66A RRRHS
5. INSTALL (3) 4494 B14/B29 RRHS
6. INSTALL (1) DC9-48-60-24-8C-EV SQUID
7. INSTALL (1) FIBER TRUNK AND (1) DC TRUNK IN 2" INNERDUCT
8. INSTALL (6) 2" STD. X 10'-0" MAST PIPES W/ (6) SCX7-U CROSSOVER PLATE KITS

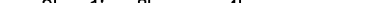
9. INSTALL (6) 2" STD. X 10'-0" EQUIPMENT PIPES W/ (3) MUK-MSK6 DUAL PIPE ATTACHMENT KITS
10. INSTALL MOUNT MODIFICATIONS PER MOUNT MODIFICATION DRAWINGS BY B+T GROUP DATED 3/26/25

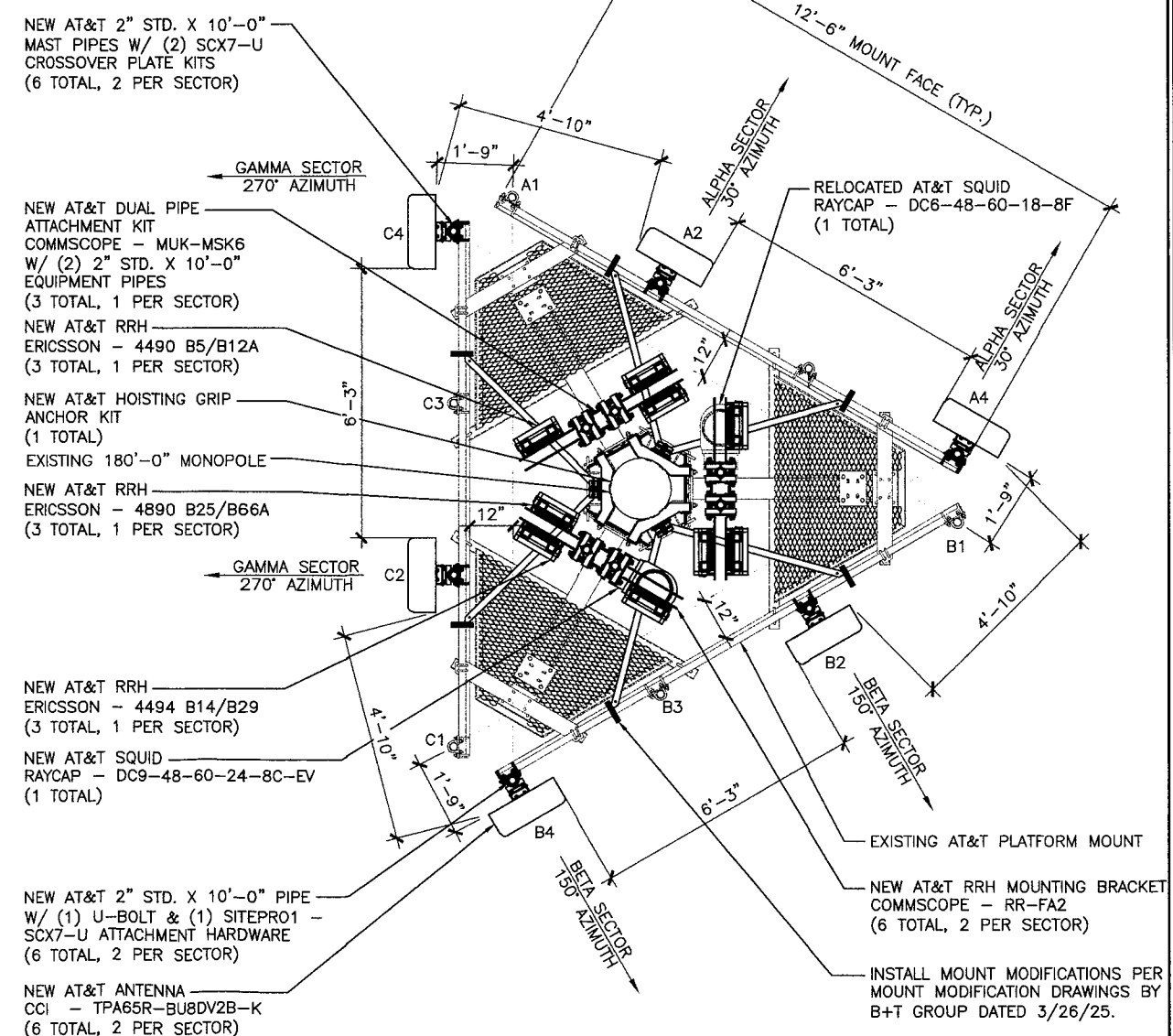
INSTALLER NOTE:

ROTATE MOUNT AS NEEDED TO ELIMINATE ANTENNA SKEW.




1 EXISTING ANTENNA PLAN

SCALE: 



② FINAL ANTENNA PLAN

SCALE: 



2 ASH STREET, SUITE #3000
CONSHOHOCKEN, PA 19428

USID: 100431
FA: 10128075

TAX: 10120073
EAST HADDAM
HAYWARDVILLE
RD
 41 HAYWARDVILLE ROAD
 EAST HADDAM, CT 06423
 EXISTING MONOPOLE

EXISTING MONOPOLE

PROJECT NO:	174987.001.01
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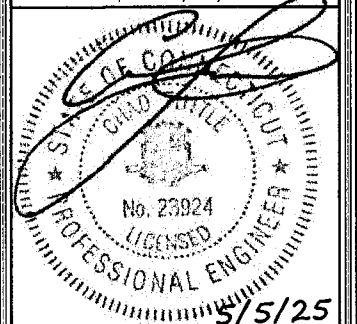
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SHEET NUMBER:
C-5

REVISION:
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174987.001,01.0001_C11277 5.2.25.dwg -- Sheet: C-6 -- User: hmgrove -- May 05, 2025 -- 11:16am

SECTOR	ANTENNA POSITION	TECHNOLOGY	ANTENNA VENDOR	ANTENNA MODEL	AZIMUTH	RAD CENTER	RRH (QTY) MODEL	SURGE PROTECTION W/ (QTY) FIBER (QTY) DC	FEEDER LENGTH
ALPHA	A1	—	—	—	—	—	—	(1) DC6-48-60-18-8F (1) 12 PAIR FIBER (2) 8AWG DC	225'-0"
	A2	LTE 700/PCS/AWS	CCI	TPA65R-BU8Dv2B-K (96"x20.7"x7.7")	30°	177'-0"	(1) 4494 B14/B29 (20.55"x15.63"x5.87") (1) 4890 B25/B66A (20.6"x15.6"x7")		
	A3	—	—	—	—	—	—		
	A4	LTE 700/850	CCI	TPA65R-BU8Dv2B-K (96"x20.7"x7.7")	30°	177'-0"	(1) 4490 B5/B12A (20.6"x15.6"x7")		
BETA	B1	—	—	—	—	—	—	(1) DC9-48-60-24-8C-EV (1) 24 PAIR FIBER (1) 6AWG DC (1) 2" INNERDUCT	225'-0"
	B2	LTE 700/PCS/AWS	CCI	TPA65R-BU8Dv2B-K (96"x20.7"x7.7")	150°	177'-0"	(1) 4494 B14/B29 (20.55"x15.63"x5.87") (1) 4890 B25/B66A (20.6"x15.6"x7")		
	B3	—	—	—	—	—	—		
	B4	LTE 700/850	CCI	TPA65R-BU8Dv2B-K (96"x20.7"x7.7")	150°	177'-0"	(1) 4490 B5/B12A (20.6"x15.6"x7")		
GAMMA	C1	—	—	—	—	—	—	—	—
	C2	LTE 700/PCS/AWS	CCI	TPA65R-BU8Dv2B-K (96"x20.7"x7.7")	270°	177'-0"	(1) 4494 B14/B29 (20.55"x15.63"x5.87") (1) 4890 B25/B66A (20.6"x15.6"x7")		
	C3	—	—	—	—	—	—		
	C4	LTE 700/850	CCI	TPA65R-BU8Dv2B-K (96"x20.7"x7.7")	270°	177'-0"	(1) 4490 B5/B12A (20.6"x15.6"x7")		

NOTES:

1. VERIFY ANTENNA DIMENSIONS WITH MANUFACTURER.
2. VERIFY FINAL ANTENNA MODEL WITH CURRENT VERSION OF THE AT&T RFDS.
3. ALL FEEDLINE LENGTHS SHALL BE FIELD VERIFIED PRIOR TO INSTALLATION.
4. BLUE DENOTES NEW EQUIPMENT.

UNUSED FEEDLINES		
(QTY) TYPE	SIZE	LENGTH
(12) COAX	1-5/8"	225'-0"

1

ANTENNA & CABLE SCHEDULE

SCALE: N.T.S.



2 ASH STREET, SUITE #3000
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HAYWARDVILLE
RD

41 HAYWARDVILLE ROAD
EAST HADDAM, CT 06423

EXISTING MONOPOLE

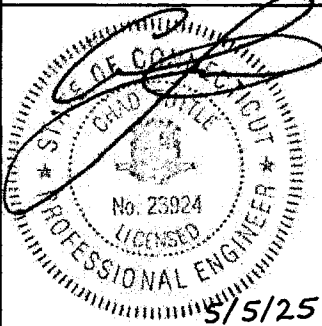
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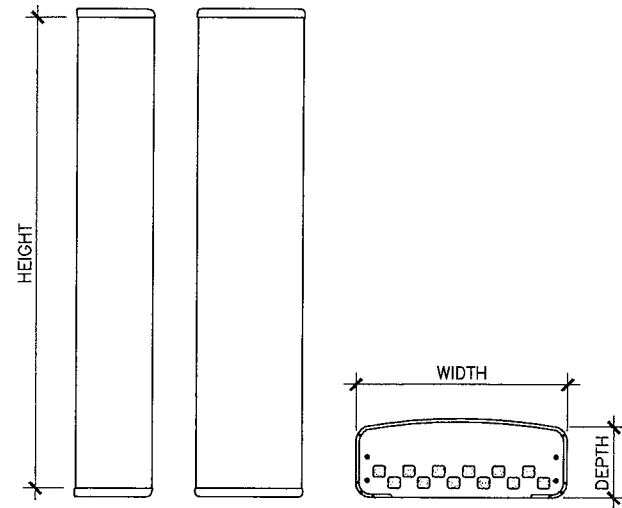
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C-6

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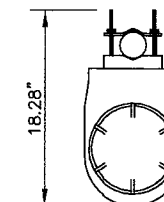


CCI -- TPA65R-BU8Dv2B-K
WEIGHT: 87.1 LBS
SIZE (HXWDXD): 96.0X20.7X7.7 IN.

1 ANTENNA DETAIL
SCALE: N.T.S.

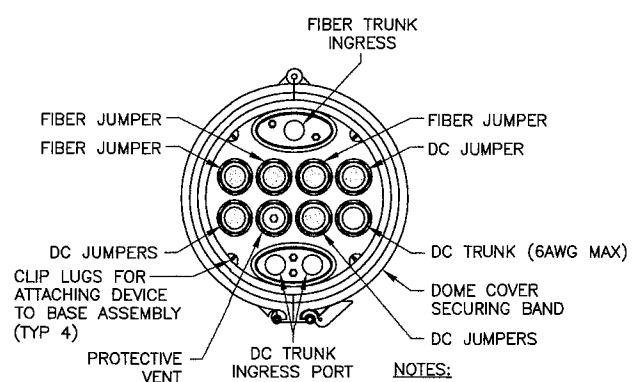
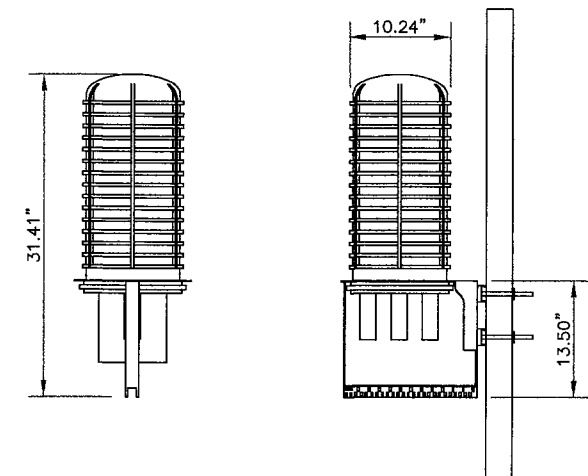
2 NOT USED
SCALE: N.T.S.

3 NOT USED
SCALE: N.T.S.



RAYCAP
DC9-48-60-24-8C-EV

RAYCAP -- DC9-48-60-24-8C-EV
SIZE: 10.24x31.40 IN.
WEIGHT: 26.2 LBS
NOMINAL OPERATING VOLTAGE: 48 VDC
VOLTAGE PROTECTION RATING: 330 V
WIND LOADING: 150 MPH SUSTAINED (105.7 LBS)
WIND LOADING: 195 MPH GUST (213.6 LBS)
CONTRACTOR TO USE "THREAD LUBRICANT" ON
MOUNTING BOLTS DURING INSTALLATION



NOTES:
1. REMOVE CABLE SEALING GLAND AND
INSTALL M32x1.5 METRIC-TO-1" NPT
ADAPTER (COOPER CROUSE-HINES P/N
CAP 740 994 OR EQUIVALENT MFR) WHEN
CONNECTING CONDUIT TO OVP.

4 SURGE UNIT MOUNTING DETAIL
SCALE: N.T.S.



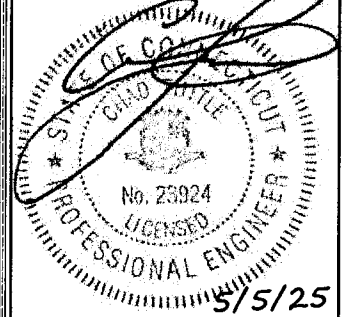
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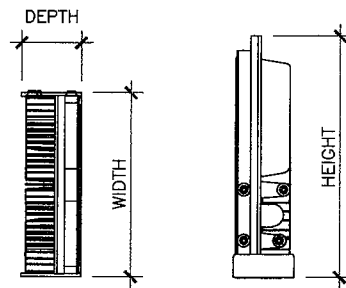
ISSUED FOR:			
REV	DATE	DRWN	DESCRIPTION
A	2/20/25	JS	PRELIMINARY REVIEW
B	3/12/25	BKR	PRELIMINARY REVIEW
D	5/5/25	BKR	CONSTRUCTION

MTS ENGINEERING P.L.L.C.
PEC.0002304
Expires 4/11/26



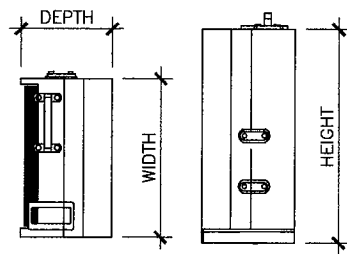
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SHEET NUMBER: C-7
REVISION: 0



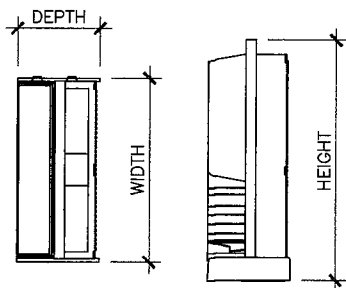
ERICSSON - RADIO 4490
WEIGHT: 65.0 LBS
SIZE (HxWxD): 20.6x15.6x7.0 IN.

1 RRH DETAIL
SCALE: N.T.S.



ERICSSON - RADIO 4494 B14/B29
WEIGHT: 57.33 LBS
SIZE (HxWxD): 20.55x15.63x5.87 IN.

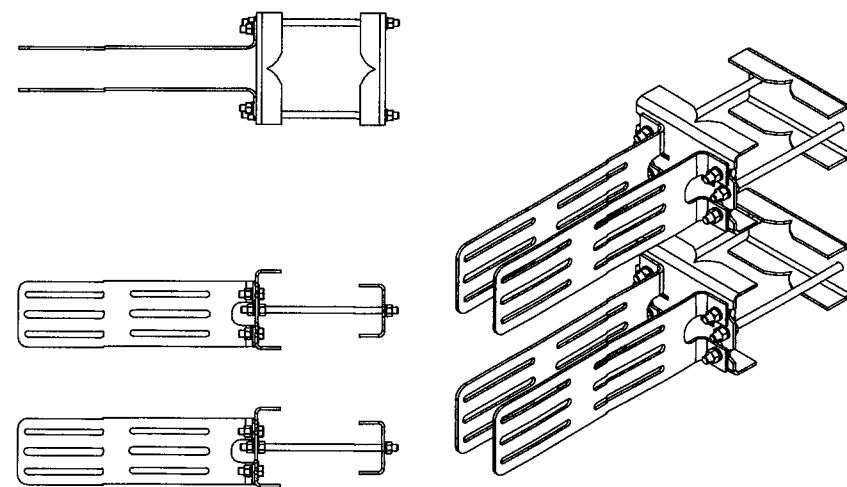
2 RRH DETAIL
SCALE: N.T.S.



ERICSSON - RADIO 4890
WEIGHT: 67.24 LBS
SIZE (HxWxD): 20.6x15.6x7.0 IN.

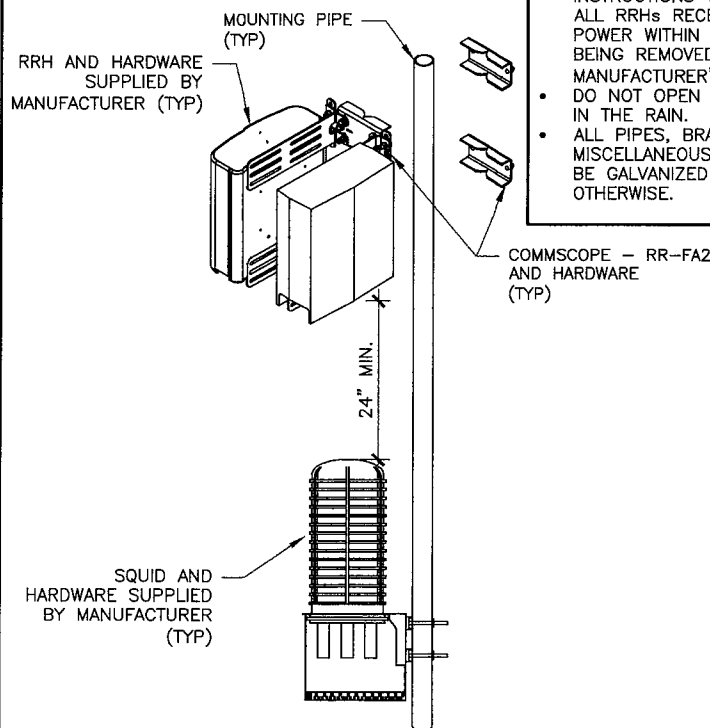
4 RRH DETAIL
SCALE: N.T.S.

- MOUNTING NOTES:**
- REFER TO PRODUCT SPECS FOR BOLT SIZE & PIPE DIAMETER TOLERANCES.
 - THE PART NO. RR-FA2 (OR APPROVED EQUAL) IS REQUIRED FOR (2) RRHs.



COMMSCOPE - RR-FA2
FAST ACCESS DUAL RRH MOUNT

5 DUAL RRH MOUNT BRACKET DETAIL
SCALE: N.T.S.



- INSTALLER NOTES:**
- COMPLY WITH MANUFACTURER'S INSTRUCTIONS TO ENSURE THAT ALL RRHs RECEIVE ELECTRICAL POWER WITHIN 24 HOURS OF BEING REMOVED FROM THE MANUFACTURER'S PACKAGING.
 - DO NOT OPEN RRH PACKAGES IN THE RAIN.
 - ALL PIPES, BRACKETS, AND MISCELLANEOUS HARDWARE TO BE GALVANIZED UNLESS NOTED OTHERWISE.

COMMSCOPE - RR-FA2
AND HARDWARE
(TYP)

6 DUAL RRH AND SQUID MOUNTING DETAIL
SCALE: N.T.S.



2 ASH STREET, SUITE #3000
CONSHOHOCKEN, PA 19428

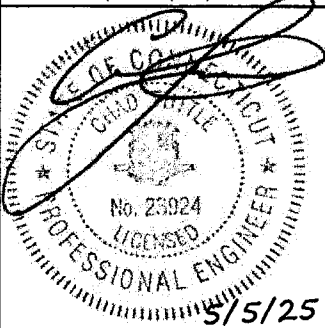
USID: 100431
FA: 10128075
**EAST HADDAM
HAYWARDVILLE
RD**
41 HAYWARDVILLE ROAD
EAST HADDAM, CT 06423
EXISTING MONOPOLE

PROJECT NO: 174987.001.01

CHECKED BY: TDG

ISSUED FOR:			
REV	DATE	DRWN	DESCRIPTION
A	2/20/25	JS	PRELIMINARY REVIEW
B	3/12/25	BKR	PRELIMINARY REVIEW
D	5/5/25	BKR	CONSTRUCTION

MTS ENGINEERING P.L.L.C.
PEC.0002304
Expires 4/11/26



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SHEET NUMBER: REVISION:

C-7.1 0



2 ASH STREET, SUITE #3000
CONSHOHOCKEN, PA 19428

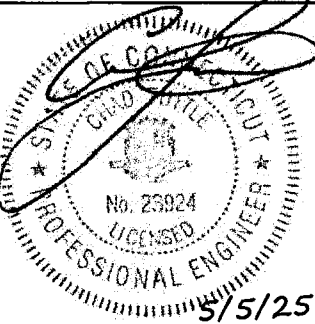
USID: 100431
FA: 10128075
**EAST HADDAM
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41 HAYWARDVILLE ROAD
EAST HADDAM, CT 06423
EXISTING MONOPOLE

PROJECT NO: 174987.001.01

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O	5/5/25	BKR	CONSTRUCTION

MTS ENGINEERING P.L.L.C.
PEC.0002304
Expires 4/11/26



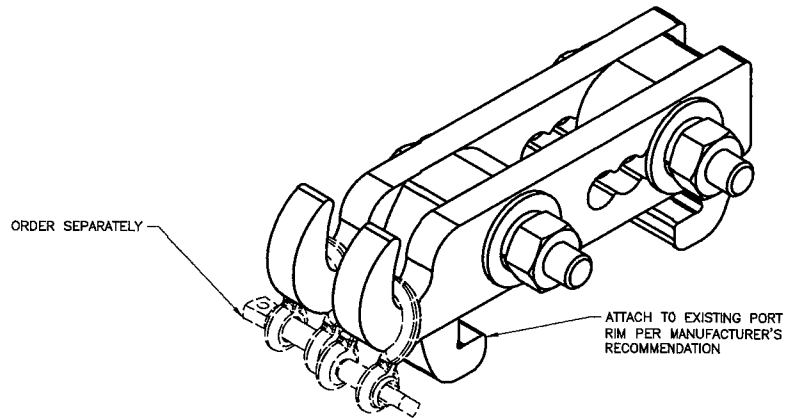
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SHEET NUMBER: REVISION:

C-7.2 0

1 NOT USED
SCALE: N.T.S.

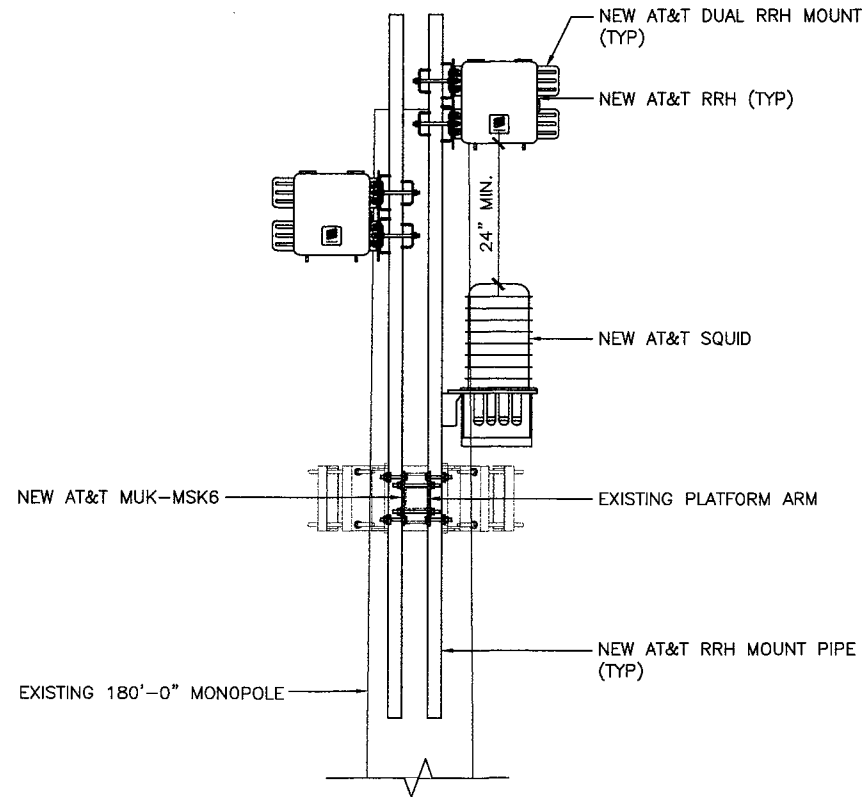
NOTE: - REFERENCE MANUFACTURER DRAWINGS FOR FULL SPECIFICATIONS



FINISH:
HOT DIP GALVANIZED.

3 VALMONT - PHH-AL
SCALE: N.T.S.

2 NOT USED
SCALE: N.T.S.



4 VERTICAL RRH & SQUID PLACEMENT DETAIL
SCALE: N.T.S.

174987.001.01.0001_C11277 5.2.25.dwg -- Sheet:G-1 -- User: tim.grove -- May 05, 2025 -- 11:16am



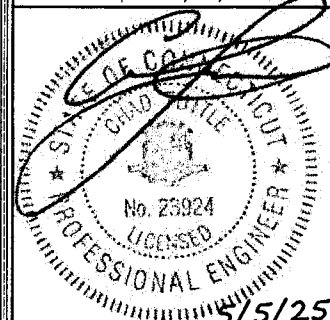
2 ASH STREET, SUITE #3000
CONSHOHOCKEN, PA 19428

USID: 100431
FA: 10128075
**EAST HADDAM
HAYWARDVILLE
RD**
41 HAYWARDVILLE ROAD
EAST HADDAM, CT 06423
EXISTING MONOPOLE

PROJECT NO: 174987.001.01
CHECKED BY: TDG

ISSUED FOR:			
REV	DATE	DRWN	DESCRIPTION
A	2/20/25	JS	PRELIMINARY REVIEW
B	3/12/25	BKR	PRELIMINARY REVIEW
O	5/5/25	BKR	CONSTRUCTION

MTS ENGINEERING P.L.L.C.
PEC.0002304
Expires 4/11/26

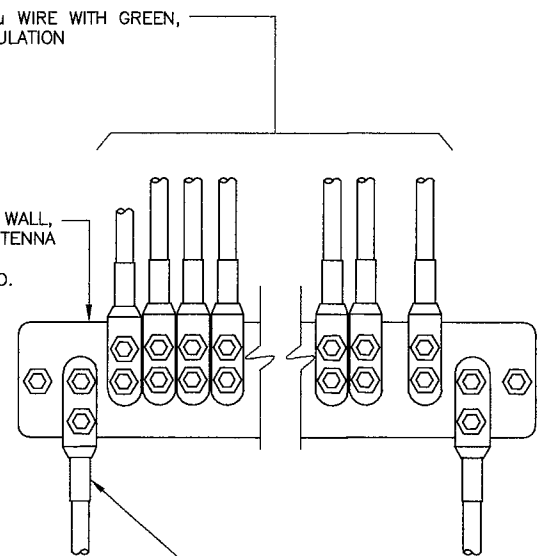


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SHEET NUMBER: **G-1**
REVISION: **0**

#2 STRANDED Cu WIRE WITH GREEN,
600V, THWN INSULATION

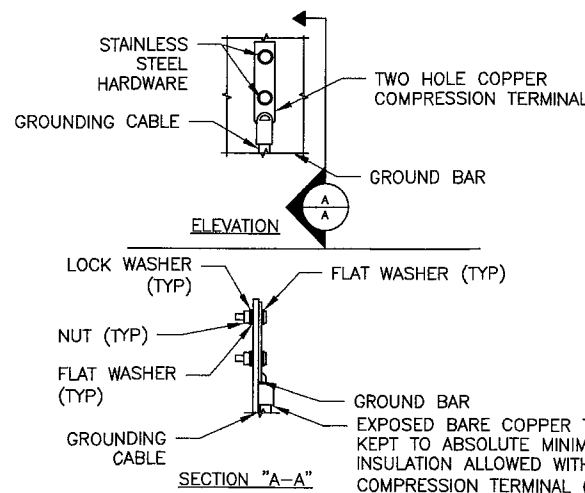
GROUND BAR ON WALL,
FLOOR OR ON ANTENNA
TOWER SIZE
1/4"x4"x20" U.N.O.



TWO HOLE LUG, TO BE USED WITH
#2 AWG BARE TINNED COPPER
GROUND CONNECTOR. EXOTHERMIC
WELD TO BURIED GROUND RING
AND GROUND BAR

INSTALLATION OF GROUND WIRE TO GROUND BAR

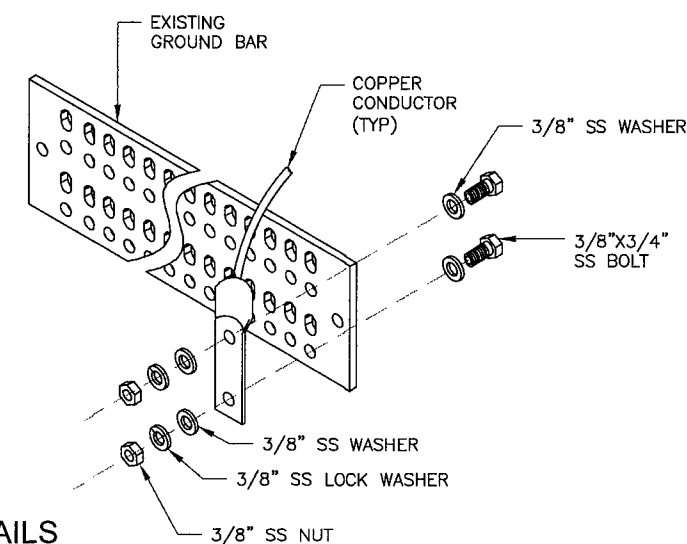
2 SCALE: N.T.S.



GREEN-INSULATED
GROUND WIRE
2X6MM2 (10AWG)
600V 90C UL
5M COIL

STAINLESS STEEL
HARDWARE
INSULATORS

GROUND BAR
TWO HOLE CRIMP
TYPE LUG

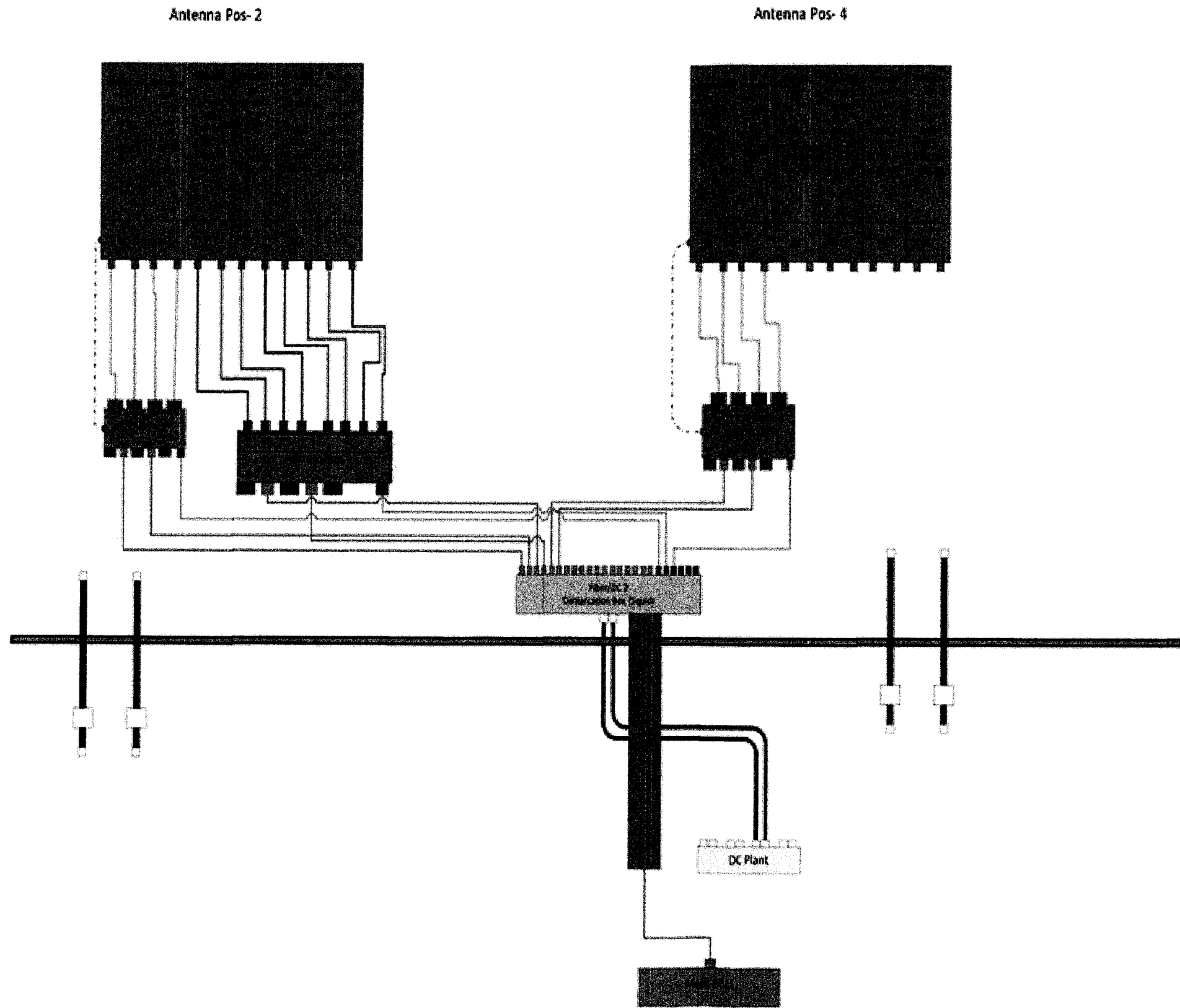


GROUNDING BAR DETAILS

3 SCALE: N.T.S.

1 NOT USED
SCALE: N.T.S.

174987.001.01.0001_C11277 5.2.25.dwg -- Sheet:RF-1 -- User: tim.grove -- May 05, 2025 -- 11:16am



1 PLUMBING DIAGRAM (ALL SECTORS)
SCALE: N.T.S.



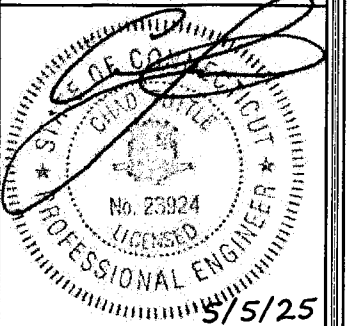
2 ASH STREET, SUITE #3000
CONSHOHOCKEN, PA 19428

USID: 100431
FA: 10128075
**EAST HADDAM
HAYWARDVILLE
RD**
41 HAYWARDVILLE ROAD
EAST HADDAM, CT 06423
EXISTING MONOPOLE

PROJECT NO: 174987.001.01
CHECKED BY: TDG

ISSUED FOR:			
REV	DATE	DRWN	DESCRIPTION
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B	3/12/25	BKR	PRELIMINARY REVIEW
0	5/5/25	BKR	CONSTRUCTION

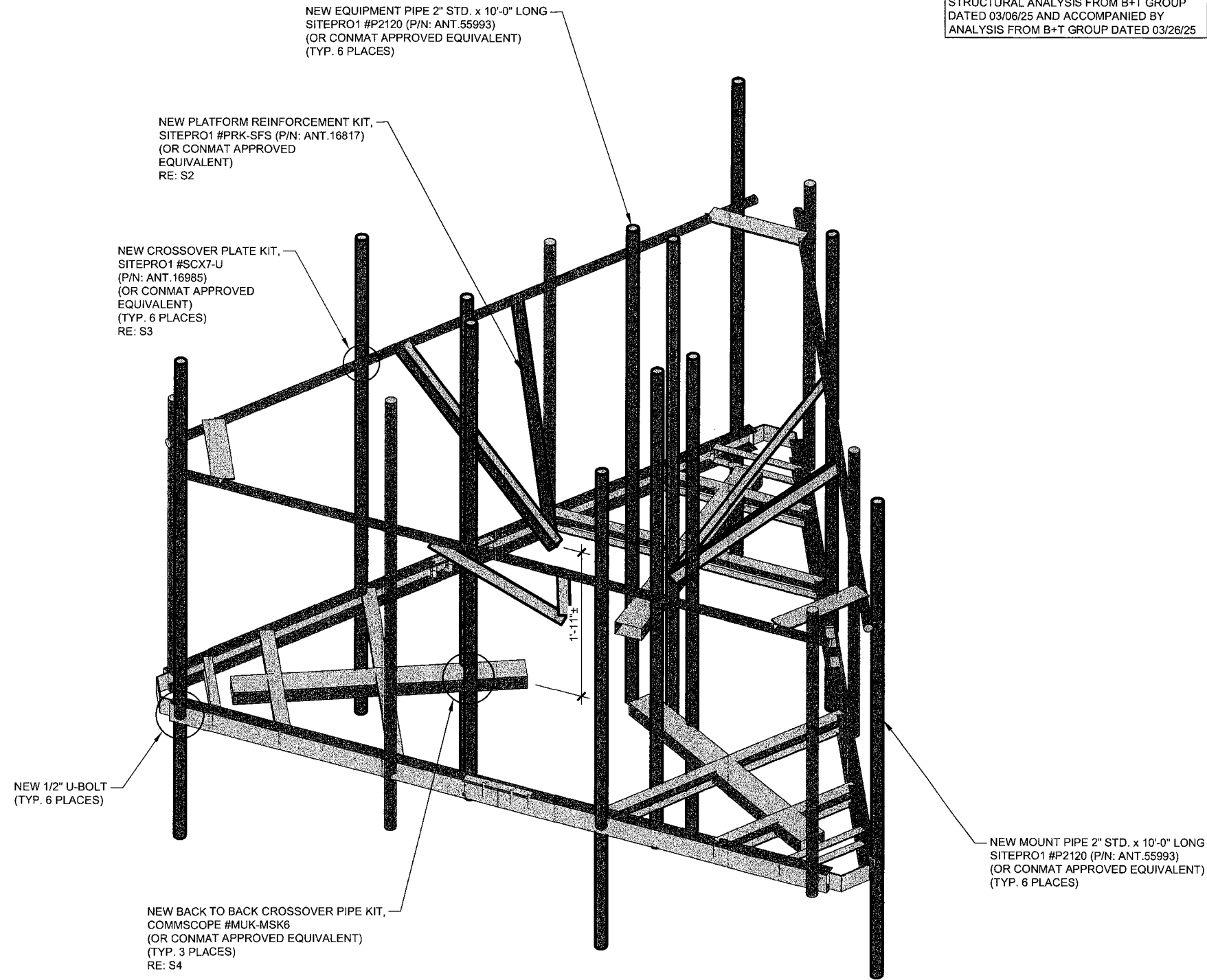
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PEC.0002304
Expires 4/11/26



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SHEET NUMBER: **RF-1** REVISION: **0**

174987_001_01_0004_Mount MCD Drawing.dwg -- User: SUMANTH -- Mar 26, 2025 -- 4:31pm



1 MODIFIED PLATFORM
SCALE: N.T.S.

MODIFICATIONS BASED ON THE FAILING
STRUCTURAL ANALYSIS FROM B+T GROUP
DATED 03/06/25 AND ACCOMPANIED BY
ANALYSIS FROM B+T GROUP DATED 03/26/25

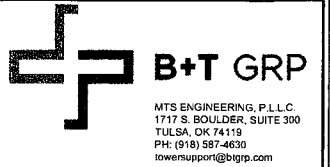
GENERAL NOTES

- 1.1 CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO THE MOBILIZING ON THE SITE FOR INSTALLATION OF THE MOUNT MODIFICATION AND SHALL NOTIFY THE ENGINEER OF RECORD IF THE FIELD CONDITIONS VARY FROM WHAT IS SHOWN ON THE DRAWINGS. IN ADDITION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD PRIOR TO MOBILIZING AT THE SITE IF THE MOUNT REINFORCEMENT SHOWN WILL NEED TO BE REVISED TO SATISFY FIELD CONDITIONS
- 1.2 CONTRACTOR SHALL RELOCATE NON-ANTENNA EQUIPMENT ALONG THE EXISTING PIPE MOUNT THAT IT IS MOUNTED TO, TO ALLOW FOR INSTALLATION OF MOUNT REINFORCEMENT. ENGINEER OF RECORD WILL BE NOTIFIED IF NON-ANTENNA EQUIPMENT NEEDS TO BE RELOCATED TO ANY OTHER EXISTING MEMBERS TO ALLOW FOR INSTALLATION OF MOUNT MODIFICATION.
- 1.3 MODIFICATION SHALL BE COMPLETED PRIOR TO ADDING THE PROPOSED APPURTENANCES.
- 1.4 ALL WORK SHALL COMPLY WITH THE TIA-222-H STANDARD, ANSI/TIA-322 AND ANSI/ASSE A10.48, AS WELL AS ANY OTHER GOVERNING BUILDING CODES.
- 1.5 FIELD WORK WILL BE DONE AROUND EXISTING COAXIAL CABLE AND EQUIPMENT. ALL WORK SHALL BE DONE IN A MANNER SUCH THAT NO DAMAGE OCCURS TO THE EXISTING EQUIPMENT OR THE STRUCTURE.
- 1.6 A MINIMUM OF TWO COATS OF ZINGA COLD GALVANIZING COMPOUND (OR APPROVED EQUIVALENT) SHALL BE APPLIED TO ANY FIELD CUTS OR FIELD DRILLED HOLES.
- 1.7 THE USE OF A GAS TORCH OR WELDER WILL NOT BE PERMITTED ON THE TOWER WITHOUT THE CONSENT OF THE OWNER.
- 1.8 ALL FIELD CONNECTIONS SHALL BE MADE WITH A325N BOLTS, U.N.O.
- 1.9 IN LIEU OF TEMPORARY BRACING, CONTRACTOR MAY HAVE A STABILITY ANALYSIS PERFORMED BY AN ENGINEER LICENSED IN THE STATE THE TOWER IS LOCATED. THE ANALYSIS SHALL USE A MINIMUM WIND SPEED OF 45 mph (3-SEC) PER ANSI/TIA-322 and ANSI/ASSE A10.48
- 1.10 ALL CUTTING AND WELDING ACTIVITIES SHALL BE CONDUCTED IN ACCORDANCE WITH CCUSA POLICY "CUTTING AND WELDING PLAN" (DOC #ENG-PLN-10015) ON AN ONGOING BASIS THROUGHOUT THE ENTIRE LIFE OF THE PROJECT.
- 1.11 DIMENSIONS WITH "+/-" MUST BE WITHIN 3" OF THE INDICATED DIMENSION.

FABRICATION

- 2.1 ALL WORK SHALL BE DONE IN ACCORDANCE WITH A.I.S.C. "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS."
- 2.2 STRUCTURAL STEEL SHALL MEET THE FOLLOWING SPECIFICATIONS:

	<u>YIELD</u>	<u>ASTM SPECS</u>
STEEL PIPE, U.N.O.	35ksi	A53 GR.B
- 2.3 ALL NEW MATERIAL INCLUDING STRUCTURAL STEEL AND FASTENERS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 AND A153.
- 2.4 WELDING SHALL MEET ANSI/AWS D1.1 STRUCTURAL WELDING CODE (LATEST REVISION). ELECTRODES SHALL BE E80 SERIES.
- 2.5 CONTRACTOR SHALL PROVIDE SHOP FABRICATION DRAWINGS TO B+T GROUP 5 DAYS PRIOR TO FABRICATION.



JACOBS

100 SOUTH CHARLES STREET
TOWER TWO, SUITE 1000
BALTIMORE, MD 21201

**EAST HADDAM
HAYWARDVILLE RD**

41 HAYWARDVILLE ROAD
EAST HADDAM, CT 06423
MIDDLESEX

EXISTING PLATFORM
AT 177'-00"

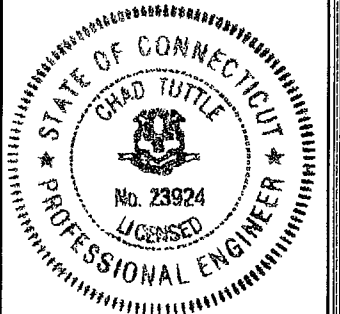
PROJECT NO: 174987.001.01.0004

CHECKED BY: JW

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
0	03/26/25	PMS	CONSTRUCTION

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PEC.0001564
Expires 2/10/26



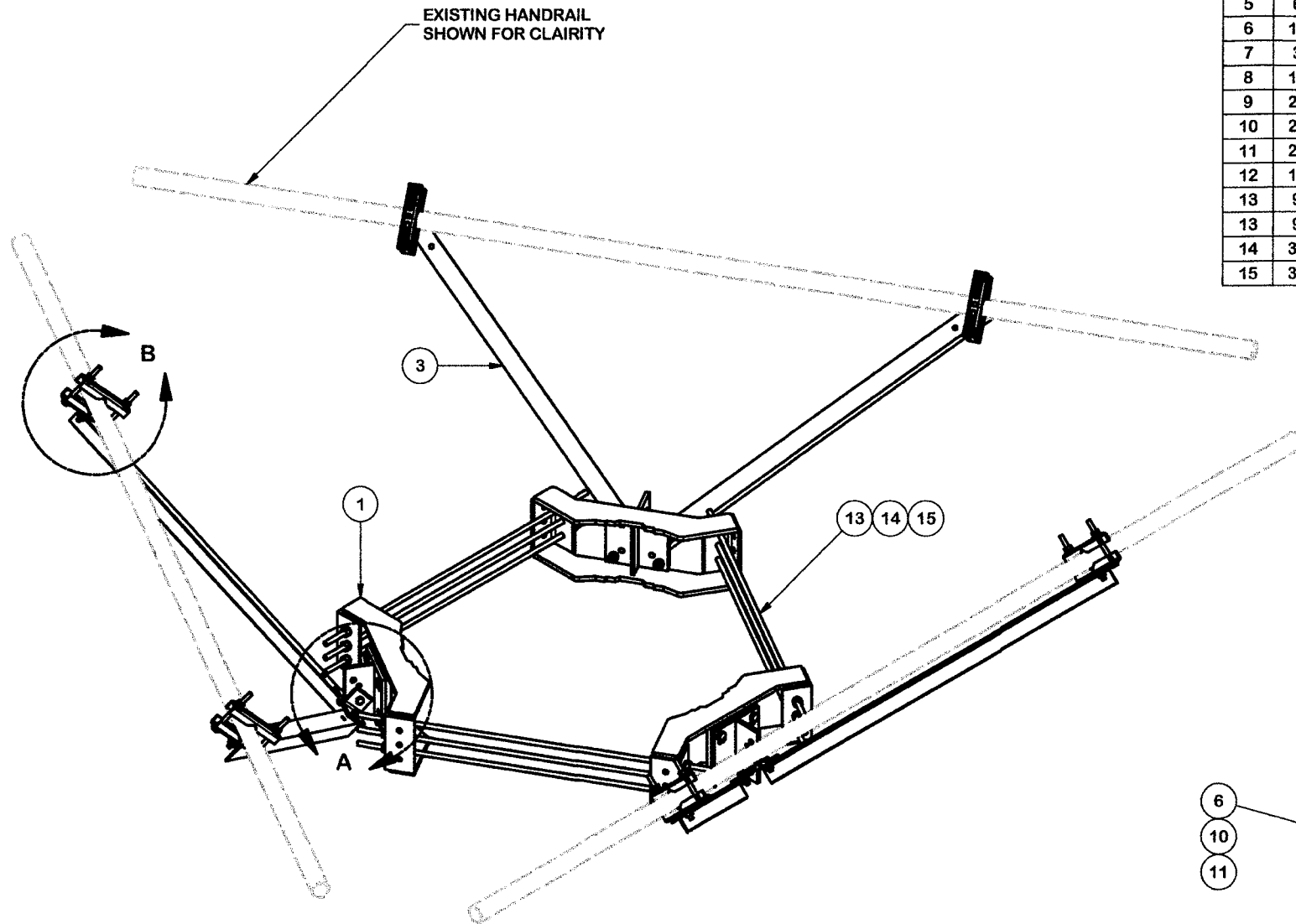
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SHEET NUMBER: REVISION:

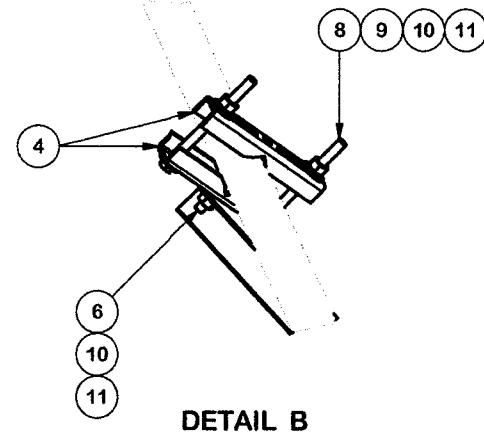
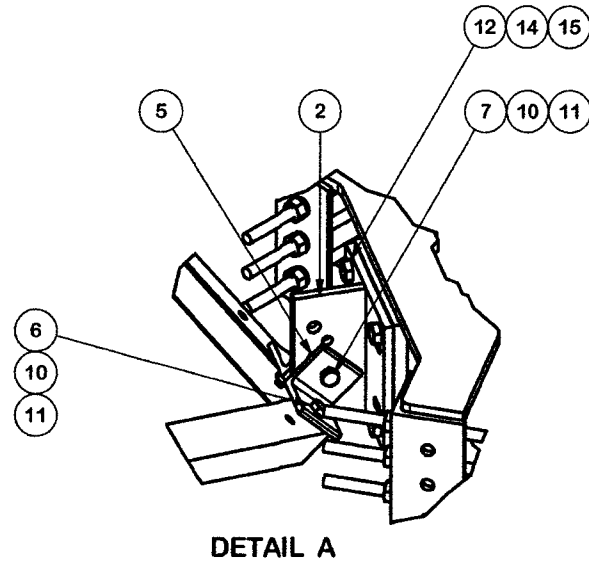
S1

0

174987_001_01_0004_Mount MOD Drawing.dwg -- Sheet:52 -- User: SUMANTH -- Mar 26, 2025 -- 4:31pm



PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	3	X-LWRM	RING MOUNT WELDMENT		68.81	206.42
2	3	X-TBW	T-BRACKET WELDMENT		13.60	40.80
3	6	X-232697	TRPD-HD DIAGONAL ANGLE - SITE PRO 1	52 1/2 in	14.35	86.08
4	12	X-STU	STIFF ARM CHANNEL BRACKET	8 1/2 in	1.37	16.46
5	6	SHCM-T	CHAIN MOUNT TIGHTENER BRACKET	3 in	1.86	11.15
6	12	G12112	1/2" x 1-1/2" HDG HEX BOLT GR5	1/2 in	0.15	1.77
7	3	G12212	1/2" x 2-1/2" HDG HEX BOLT GR5	2 1/2 in	0.20	0.61
8	12	G12065	1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD	6 1/2 in	0.41	4.91
9	24	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	0.82
10	27	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	0.38
11	27	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	1.93
12	12	A582114	5/8" x 2-1/4" HDG A325 HEX BOLT	2 1/4 in	0.31	3.75
13	9	G58R-24	5/8" x 24" THREADED ROD (HDG.)	24 in	0.40	3.59
13	9	G58R-48	5/8" x 48" THREADED ROD (HDG.)	48 in	0.40	3.59
14	30	G58LW	5/8" HDG LOCKWASHER		0.03	0.78
15	30	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	3.90
TOTAL WT. #						587.71



TOLERANCE NOTES

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

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DESCRIPTION

HANDRAIL REINFORCEMENT KIT

CPD NO.	SP1	DRAWN BY	CSL3 2/23/2017	ENG. APPROVAL	3RD PARTY
CLASS	81	SUB	02	DRAWING USAGE	SHOP
				CHECKED BY	BMC 3/16/2017



A valmont COMPANY

Engineering
Support Team:
1-888-753-7446

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

PART NO.	PRK-SFS	PAGE	1 OF 3
DWG. NO.	PRK-SFS		



MTS ENGINEERING, P.L.L.C.
1717 S. BOULDER, SUITE 300
TULSA, OK 74119
PH: (918) 587-4630
towersupport@bgrp.com



JACOBS

100 SOUTH CHARLES STREET
TOWER TWO, SUITE 1000
BALTIMORE, MD 21201

EAST HADDAM
HAYWARDVILLE RD

41 HAYWARDVILLE ROAD
EAST HADDAM, CT 06423
MIDDLESEX

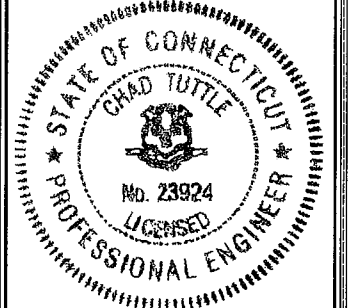
EXISTING PLATFORM
AT 177'-00"

PROJECT NO: 174987.001.01.0004

CHECKED BY: JW

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
0	03/26/25	PMS	CONSTRUCTION

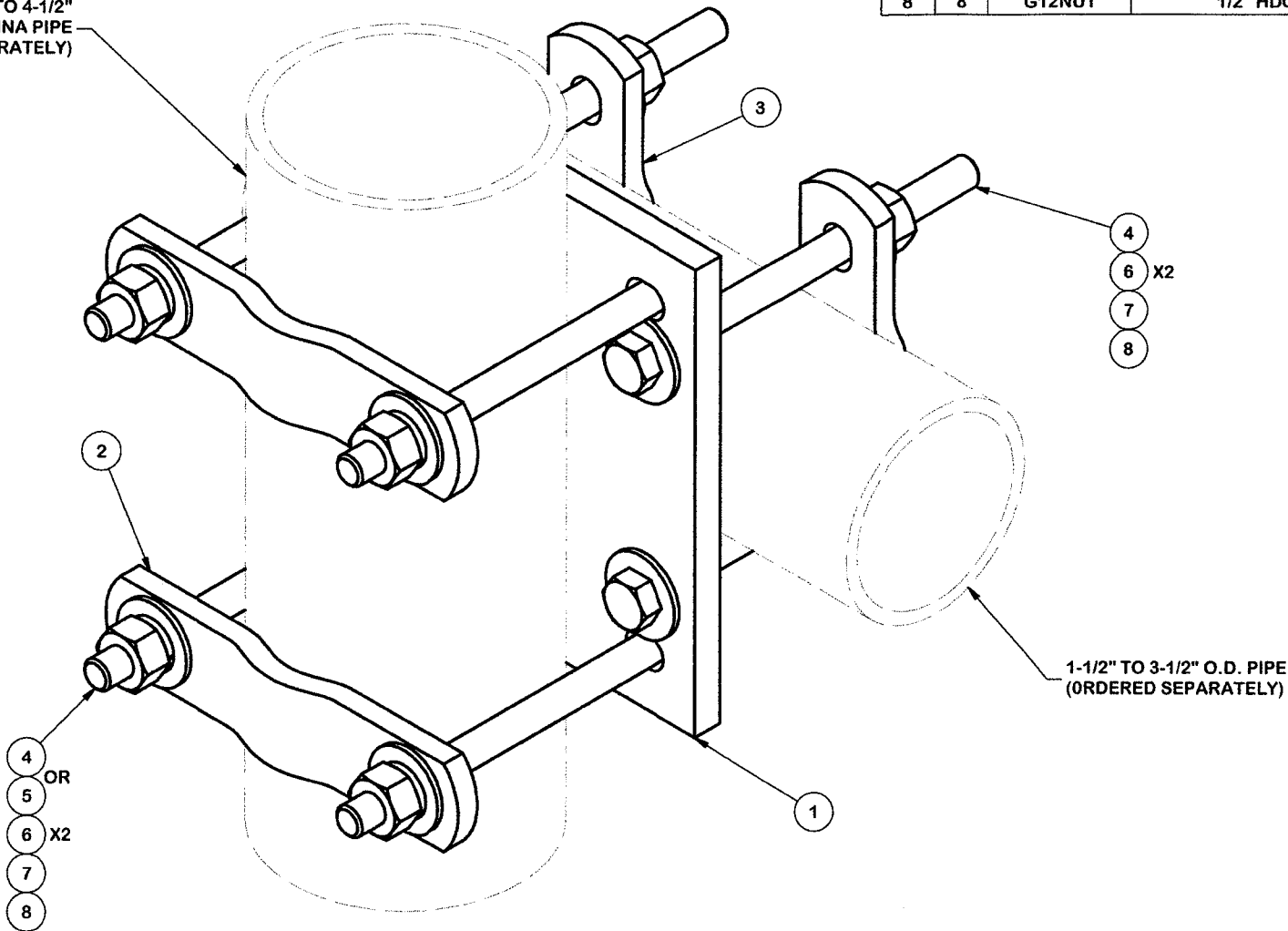


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SHEET NUMBER: S2 REVISION: 0

174987_001_01_0004_Mount MOD Drawing.dwg -- User: SUMANTH -- Mar 26, 2025 -- 4:31pm

1-1/2" TO 4-1/2"
ANTENNA PIPE
(ORDERED SEPARATELY)



PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	SCX7	CROSSOVER PLATE	8 in	7.55	7.55
2	2	X-115765	5" V-CLAMP		1.02	2.04
3	2	X-100064	CLAMP (S) (4" V-CLAMP) GALVANIZED		0.91	1.83
4	8	G12065	1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD	6 1/2 in	0.41	3.28
5	4	G12045	1/2" x 4.5" HDG HEX BOLT GR5 FULL THREAD	4 1/2 in	0.30	1.19
6	16	G12FW	1/2" HDG USS FLATWASHER		0.03	0.54
7	8	G12LW	1/2" HDG LOCKWASHER		0.01	0.11
8	8	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	0.57
TOTAL WT. #						16.98



JACOBS

100 SOUTH CHARLES STREET
TOWER TWO, SUITE 1000
BALTIMORE, MD 21201

EAST HADDAM
HAYWARDVILLE RD

41 HAYWARDVILLE ROAD
EAST HADDAM, CT 06423
MIDDLESEX

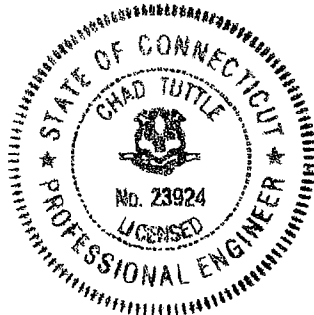
EXISTING PLATFORM
AT 177'-00"

PROJECT NO: 174987.001.01.0004

CHECKED BY: JW

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
0	03/26/25	PMS	CONSTRUCTION



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SHEET NUMBER:

S3

REVISION:

0

TOLERANCE NOTES

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SAWED, SHEARED AND GAS CUT EDGES ($\pm 0.030"$)
DRILLED AND GAS CUT HOLES ($\pm 0.030"$) - NO CONING OF HOLES
LASER CUT EDGES AND HOLES ($\pm 0.010"$) - NO CONING OF HOLES
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DESCRIPTION

CROSSOVER PLATE
(V-CLAMP STYLE)



A valmont COMPANY

Locations:
New York, NY
Atlanta, GA
Los Angeles, CA
Plymouth, IN
Salem, OR
Dallas, TX
Engineering
Support Team:
1-888-753-7446

CPD NO.	DRAWN BY CEK 10/7/2010	ENG. APPROVAL
CLASS 81	SUB 01	DRAWING USAGE CUSTOMER
	CHECKED BY BMC 10/8/2010	

PART NO.	SCX7-U
DWG. NO.	SCX7-U

1 OF 1
PAGE

