

**From:** Daniel Hatab <daniel.hatab@ramapocom.com>  
**Sent:** Friday, April 2, 2021 10:34 AM  
**To:** CSC-DL Siting Council <Siting.Council@ct.gov>  
**Subject:** EM-CING-153-201105 (AT&T Site CTL01835)

Good Morning,

The site below has been completed on 3/19, CSC letter is attached for reference and also CCA letter.

AT&T Site: CTL01835  
Address: 655 Bassett Road, Watertown CT 06795

Thank You,

**Daniel Hatab**

[daniel.hatab@ramapocom.com](mailto:daniel.hatab@ramapocom.com)

*20 Romanelli Ave, S. Hackensack, NJ 07606*

Cell Phone: (201) 742-1070

Office Phone: (201) 343-2995



Date: March 30, 2021

State of Connecticut  
Connecticut Siting Council  
Ten Franklin Square  
New Britain, Ct. 06051  
Phone: (860) 827-2935

SMW Engineering Group, Inc.  
158 Business Center Dr  
Birmingham AL. 35244  
(205) 252-6985

**RE:** EM-CING-153-201105  
**Subject:** Special Inspection Letter – Final Certification  
**ATC Site:** Watertown CT – 283424  
**AT&T site:** CTL01835 – FA:10128117  
**Site Address:** 655 Bassett Road  
Watertown, Ct. 06795-1139  
**AT&T Scope of work:** 3C,4C,4TX4RX Retrofit, 5G NR – Antenna Amendment Drawings  
**SMW Engineering Project:** 20-10237.1

Dear Sir or Madam,

On March 30, 2021, SMW Engineering Group, Inc., reviewed detailed photographs of the AT&T telecommunication facility located at the above referenced site. The purpose of these pictures was to inspect the installation in accordance with the following codes:

- International Building Code (IBC)
- National Electric Code (NEC)
- Local Building Code
- City / County Ordinances

**Proposed scope of work on tower from Construction Drawings:**

- Removal of (6) existing Andrew SBNH-1D6565C antennas – (2) per sector
- Relocate of (3) existing CCI HPA-65R-BUU-H8 antennas – (1) per sector
- Removal of (6) existing RRUS-11 B12 - (2) per sector
- Removal of (3) existing RRUS-12 B2 + A2 B25 - (1) per sector
- Installation of Site Pro 1 Handrail Kit – Part # HRK12 – Typ. of (3) sectors
- Installation of Site Pro 1 Crossover Plates – Part number SCX1-K – Typ. of (3) sectors
- Installation of (3) new CCI OPA65R-BU8DA antennas – (1) per sector
- Installation of (3) new CCI DMP65R-BU8DA antennas – (1) per sector

- Installation of (3) RRUS 11 B5 – (1) per sector
- Installation of (3) RRUS 4449 B5/B12 - (1) per sector
- Installation of (3) RRUS 4478 B14 - (1) per sector
- Installation of (3) RRUS 8843 B2/B66A - (1) per sector
- Installation of (1) DC2-48-60-8-18F-02 squid

**Discrepancies from Permitted Drawings:**

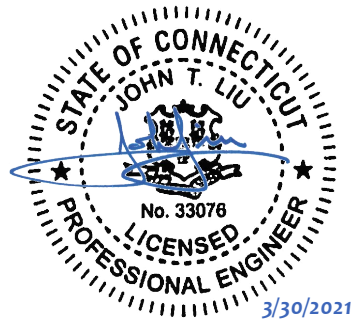
- None

To the best of our knowledge, belief, and professional judgment, the connections of the installed equipment were performed **in substantial compliance** with the approved construction drawings prepared by SMW Engineering Group, Inc. dated 11-30-20.

Should you have any questions or wish to discuss any aspect of this letter, please do not hesitate to contact the undersigned.

Sincerely,

John T. Liu, PE  
**SMW Engineering Group, INC.**  
Principal Engineer  
Connecticut Registration #33076





**GENERAL CONSTRUCTION NOTES:**

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

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

**SPECIAL CONSTRUCTION**

**ANTENNA INSTALLATION NOTES:**

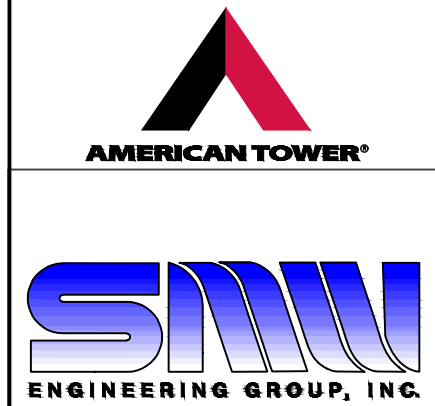
1. WORK INCLUDED:
  - A. ANTENNA AND COAXIAL CABLES ARE FURNISHED BY AT&T MOBILITY UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL AND
  - B. INSTALL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

WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR EQUAL.

3. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS)

**REDLINED CDs**  
**Ramapo Communication Corp**  
**3/23/2021**  
**Matthew Schlosser**  
*Matthew Schlosser*

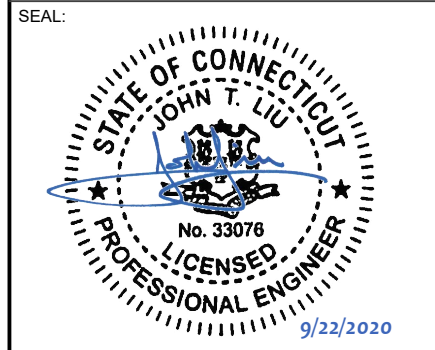
**ALL DISCREPANCIES FROM WHAT IS SHOWN ON THESE CONSTRUCTION DRAWINGS SHALL BE COMMUNICATED TO ATC ENGINEERING IMMEDIATELY FOR CORRECTION OR RE-DESIGN. FAILURE TO COMMUNICATE DIRECTLY WITH ATC ENGINEERING OR ANY CHANGES FROM THE DESIGN CONDUCTED WITHOUT PRIOR APPROVAL FROM ATC ENGINEERING SHALL BE THE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



**SMW ENGINEERING GROUP, INC.**  
 TOGETHER PLANNING A BETTER TOMORROW  
 158 BUSINESS CENTER DRIVE  
 BIRMINGHAM, AL 35244  
 TEL: 205-252-6985 FAX: 205-320-1504

REV.	DESCRIPTION	BY	DATE
1	FOR CONSTRUCTION	ZDS	09/22/20

ATC SITE NUMBER:  
**283424**  
 ATC SITE NAME:  
**WATERTOWN CT**  
 SITE ADDRESS:  
 655 BASSETT ROAD  
 WATERTOWN, CT 06795-1139



DATE DRAWN:	05/29/20
ATC JOB NO:	283424
CUSTOMER ID:	10128117
CUSTOMER #:	20-10237

**GENERAL NOTES**

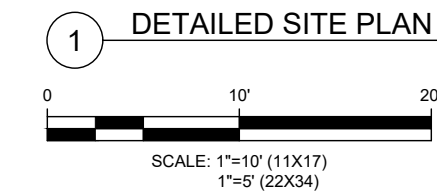
SHEET NUMBER: <b>G-002</b>	REVISION: <b>1</b>
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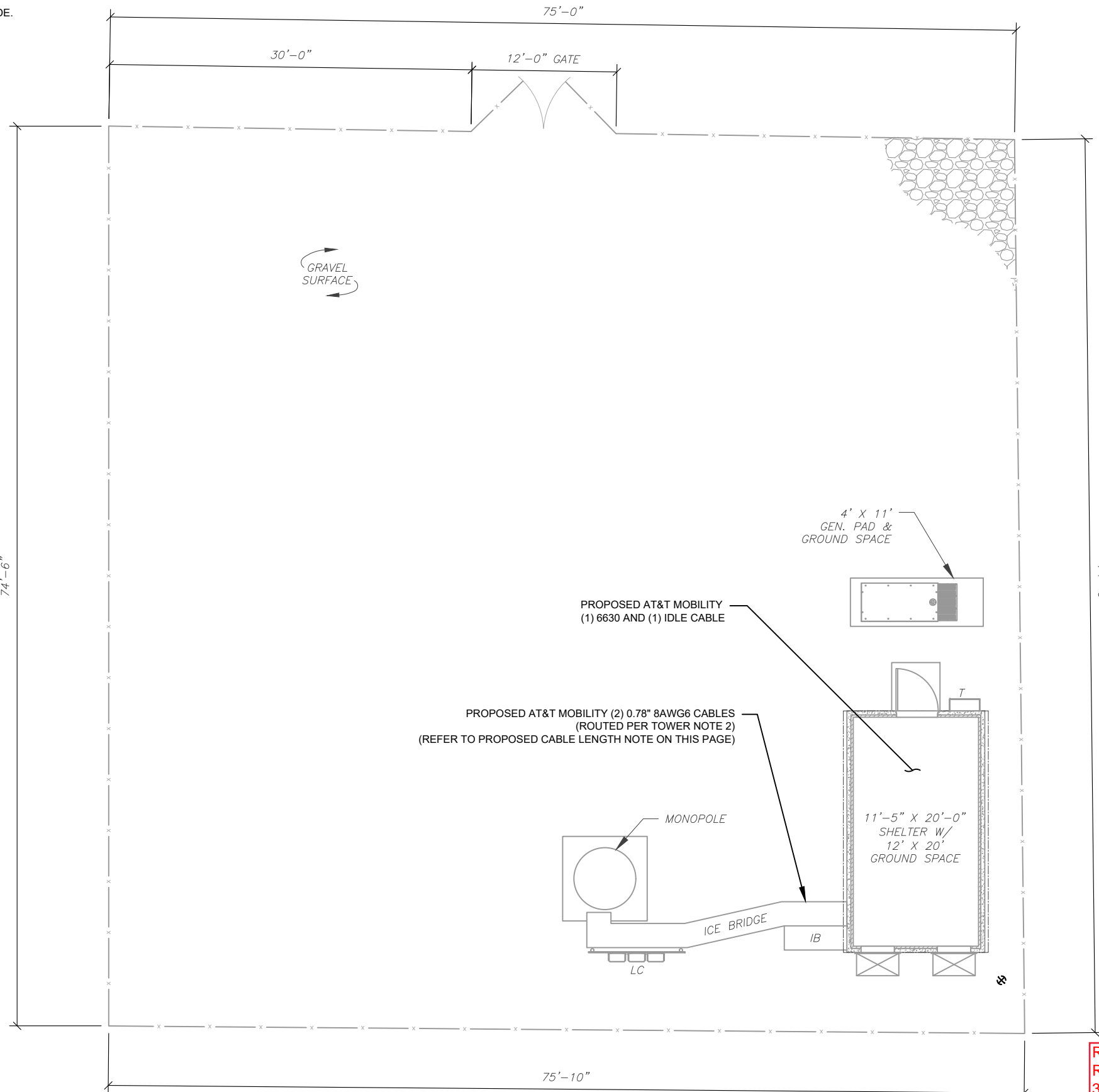
**SITE PLAN NOTES:**

1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
2. ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.
3. THIS PROJECT INCLUDES NO INSTALL OR MODIFICATION AT GRADE.

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



- PROPOSED CABLE LENGTH:**
1. ESTIMATED LENGTH OF PROPOSED CABLE IS **171'**. ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 15% (OF THE TWO PREVIOUS VALUES). CDS DEFER TO GREATEST CABLE LENGTH.
  2. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. WHERE POSSIBLE UTILIZE EXISTING CABLE SUPPORT STRUCTURES AS PROVIDED FOR CARRIER TO ADEQUATELY SECURE CABLES, USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER. OTHERWISE, ATTACH CABLES TO HORIZONTAL OR DIAGONAL TOWER MEMBERS USING PROPOSED STAINLESS STEEL ADAPTERS (DO NOT ATTACH TO TOWER LEG).



**REDLINED CDs**  
 Ramapo Communication Corp  
 3/23/2021  
 Matthew Schlosser  
 Matthew Schlosser

**AMERICAN TOWER®**

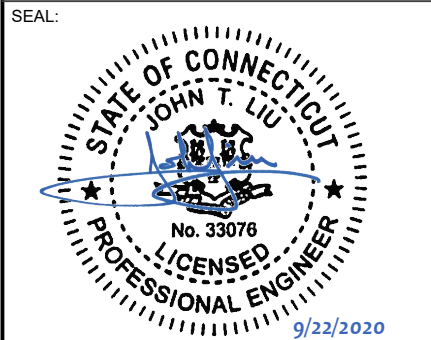
**SMW ENGINEERING GROUP, INC.**  
 TOGETHER PLANNING A BETTER TOMORROW  
 158 BUSINESS CENTER DRIVE  
 BIRMINGHAM, AL 35244  
 TEL: 205-252-6985 FAX: 205-320-1504

REV.	DESCRIPTION	BY	DATE
1	FOR CONSTRUCTION	ZDS	09/22/20

ATC SITE NUMBER:  
**283424**

ATC SITE NAME:  
**WATERTOWN CT**

SITE ADDRESS:  
 655 BASSETT ROAD  
 WATERTOWN, CT 06795-1139



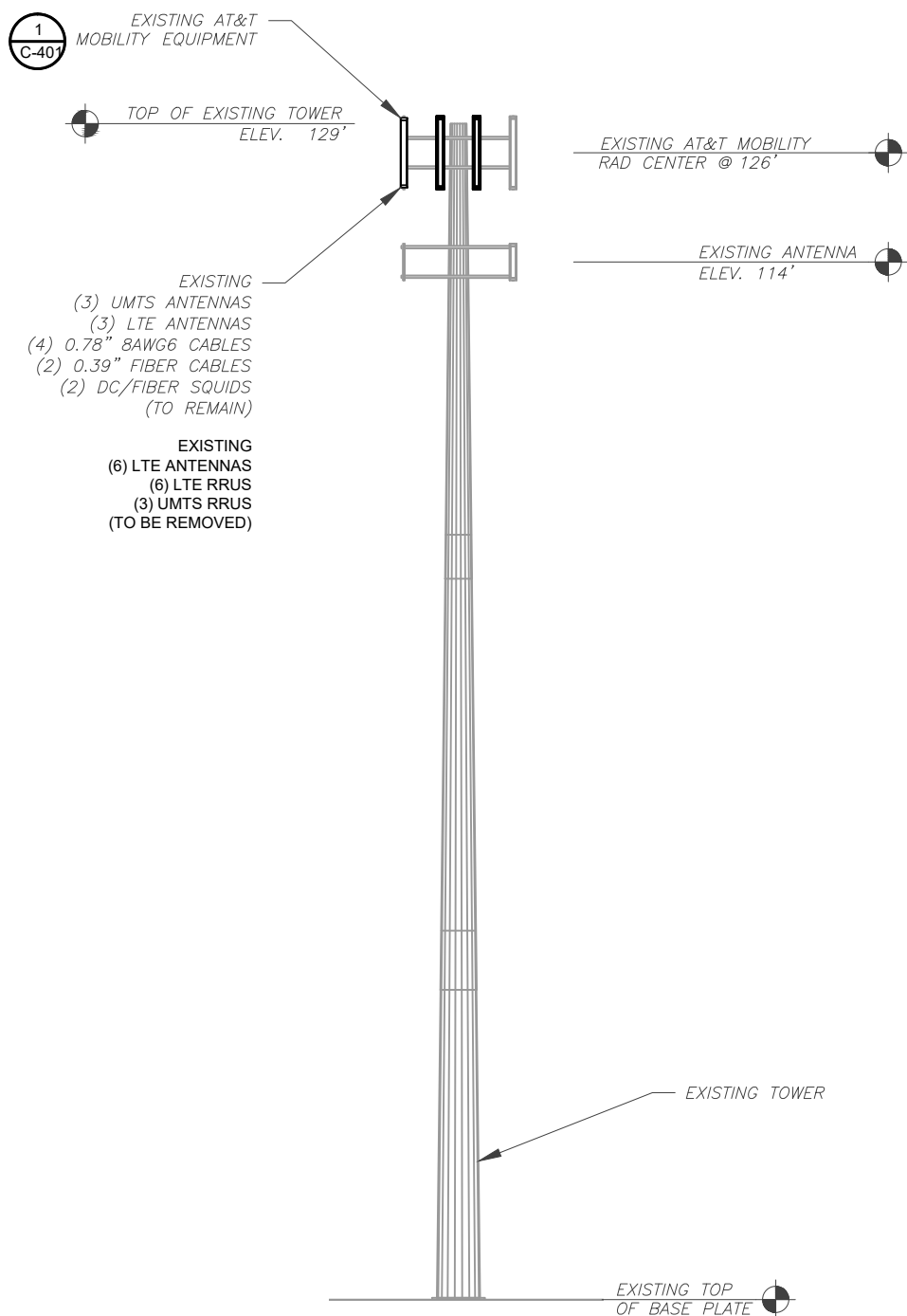
DATE DRAWN:	05/29/20
ATC JOB NO:	283424
CUSTOMER ID:	10128117
CUSTOMER #:	20-10237

**DETAILED SITE PLAN**

SHEET NUMBER: <b>C-101</b>	REVISION: <b>1</b>
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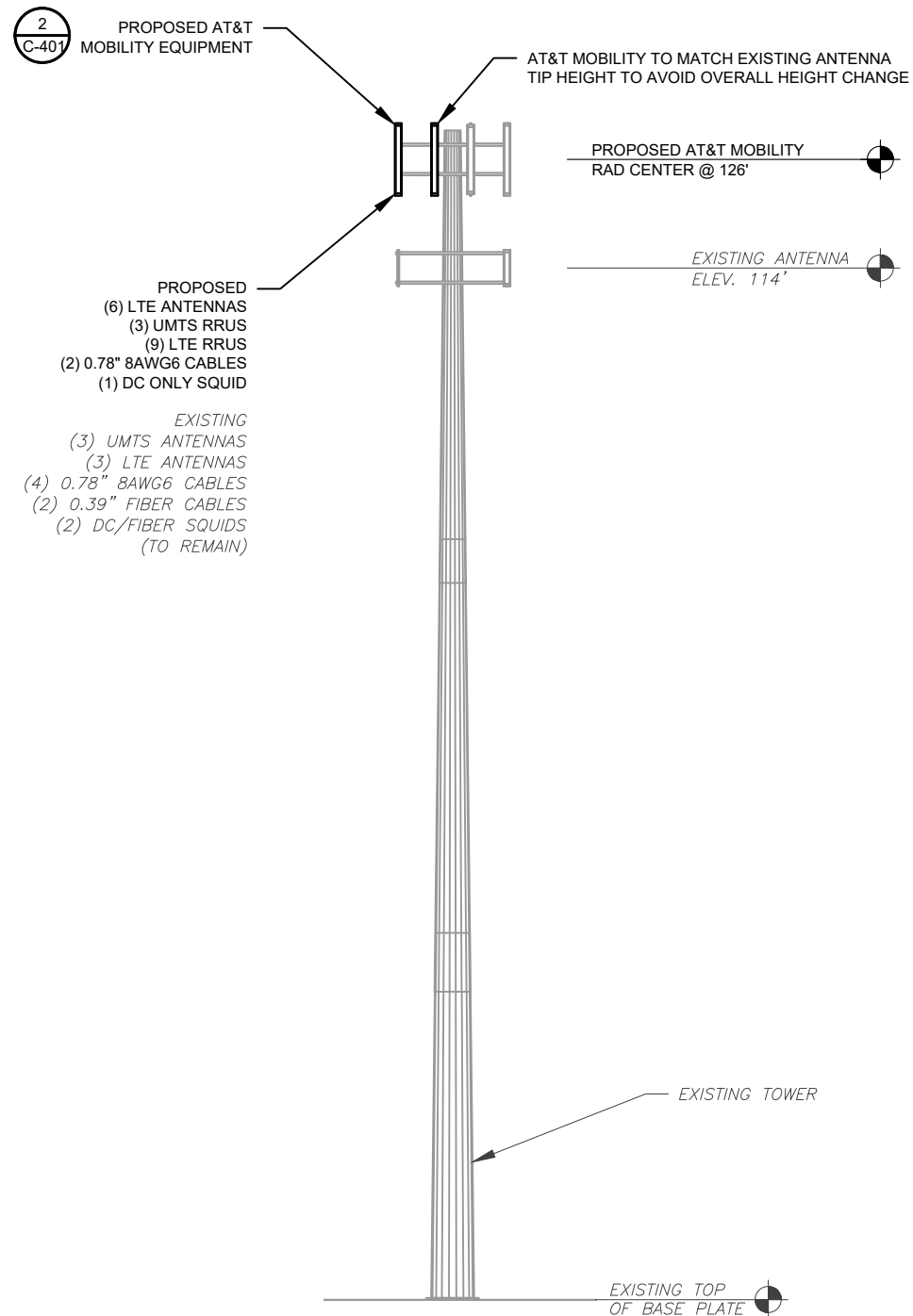
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EXISTING AND FINAL CONFIGURATIONS ARE BASED ON RFDS. CONTRACTOR TO VERIFY EXISTING CONDITIONS.



1 EXISTING TOWER ELEVATION  
SCALE: 1" = 20'

PER MOUNT ANALYSIS COMPLETED BY ATC, DATED 07/13/20, THE EXISTING MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING ONCE THE MOUNT MODIFICATION PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, IS INSTALLED.



2 FINAL TOWER ELEVATION  
SCALE: 1" = 20'

**TOWER NOTE:**

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE AMERICAN TOWER CONSTRUCTION MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS.
- ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.
- TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)

**SCOPE OF WORK:**

- WHEN STACKING CABLES 3 OR MORE DEEP, USE STACKABLE SNAP-INS, TALLEY PART NUMBER SSH-158-3 (OR ENGINEER APPROVED EQUAL).
- CONTRACTOR SHALL CONFIRM THE FINAL CABLE ROUTING PLAN WITH THE STRUCTURAL ANALYSIS.

**COAXIAL CABLE NOTES:**

- CONTRACTOR SHALL CONFIRM COAX COLOR CODING PRIOR TO CONSTRUCTION. REFER TO "ANTENNA SYSTEM LABELING STANDARD" ND-00027 LATEST VERISON.
- CONTRACTOR SHALL WEATHERPROOF ALL ANTENNA CONNECTORS WITH SELF AMALGAMATING TAPE. WEATHERPROOFING SHALL BE COMPLETED IN STRICT ACCODRANCE WITH AT&T STANDARDS.
- CONTRACTOR SHALL GROUND ALL EQUIPMENT. INCLUDING ANTENNAS, RET MOTORS, TMA'S, COAX CABLES, AND RET CONTROL CBALES AS A COMPLETE SYTEM. GROUNDING SHALL BE EXECUTED BY QUALIFIED WIREMEN IN COMPLIANCE WITH MANUFACTURER'S SPECIFICATION AND RECOMMENDATION.
- CONTRACTOR TO VERIFY THAT EXISTING COAX HANGERS ARE STACKABLE SNAP IN HANGERS. IF EXISTING HANGERS ARE NOT STACKABLE SNAP IN HANGERS THE CONTRACTOR SHALL REPLACE EXISTING HANGERS WITH NEW SNAP IN HANGERS IF APPLICABLE.

REDLINED CDs  
Ramapo Communication Corp  
3/23/2021  
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283424

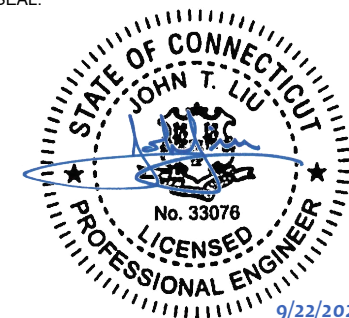
ATC SITE NAME:

WATERTOWN CT

SITE ADDRESS:

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SEAL:



DATE DRAWN:	05/29/20
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CUSTOMER ID:	10128117
CUSTOMER #:	20-10237

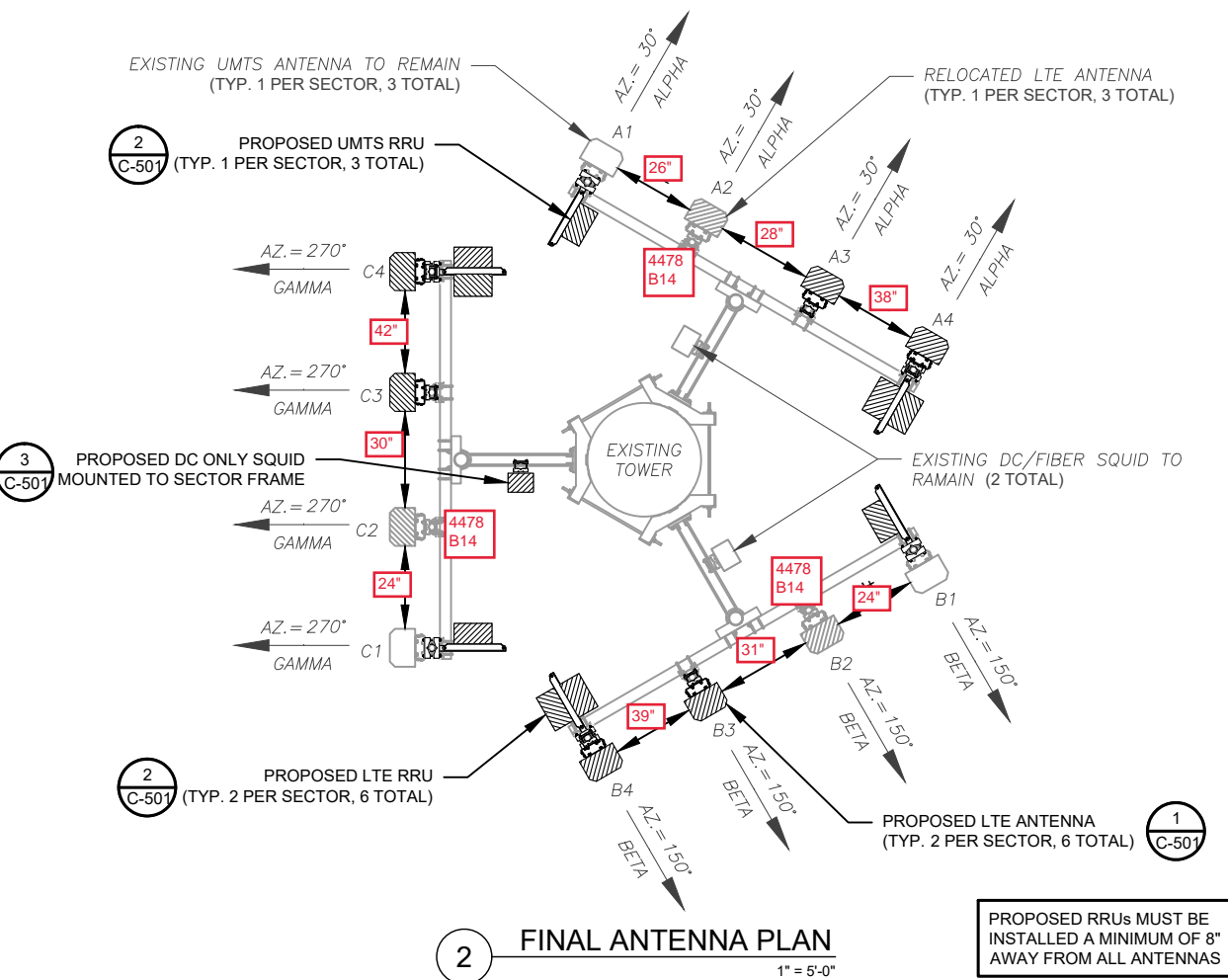
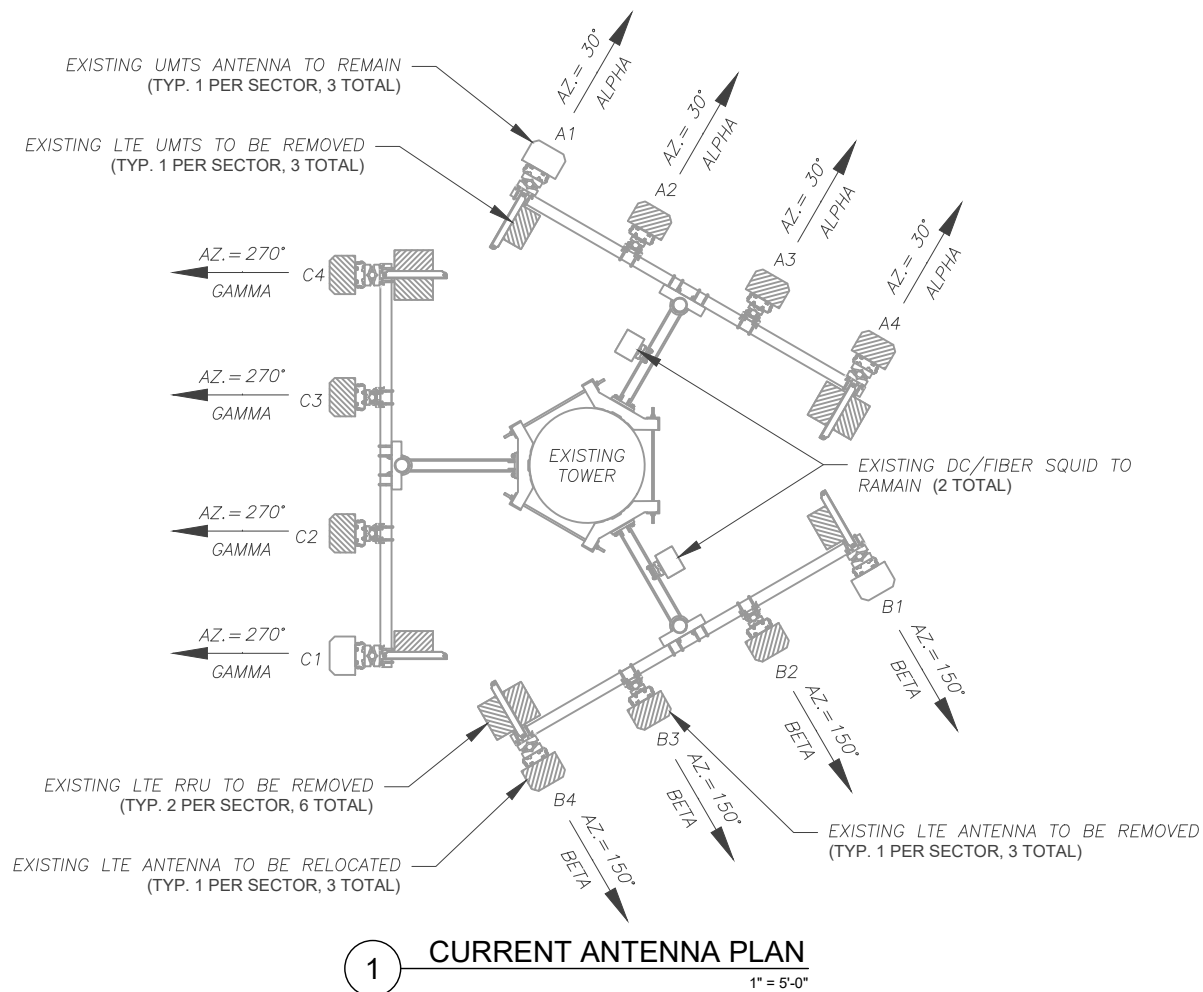
TOWER ELEVATION

SHEET NUMBER:	REVISION:
C-201	1

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PER MOUNT ANALYSIS COMPLETED BY ATC, DATED 07/13/20, THE EXISTING MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING ONCE THE MOUNT MODIFICATION PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, IS INSTALLED.



FINAL ANTENNA SCHEDULE									
LOCATION			ANTENNA SUMMARY				NON ANTENNA SUMMARY		
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS	
ALPHA	126'	30°	A1	SBNH-1D6565C	UMTS	RMN	RRUS-11 B12	RMV	
			A2	SBNH-1D6565C	LTE	RMV	-	-	
			A3	SBNH-1D6565C	LTE	RMV	-	-	
			A4	HPA-65R-BUU-H8	LTE	REL	RRUS-11 B12	RMV	
BETA	126'	150°	B1	SBNH-1D6565C	UMTS	RMN	RRUS-11 B12	RMV	
			B2	SBNH-1D6565C	LTE	RMV	-	-	
			B3	SBNH-1D6565C	LTE	RMV	-	-	
			B4	HPA-65R-BUU-H8	LTE	REL	RRUS-11 B12	RMV	
GAMMA	126'	270°	C1	SBNH-1D6565C	UMTS	RMN	RRUS-11 B12	RMV	
			C2	SBNH-1D6565C	LTE	RMV	-	-	
			C3	SBNH-1D6565C	LTE	RMV	-	-	
			C4	HPA-65R-BUU-H8	LTE	REL	RRUS-11 B12	RMV	

- NOTES**
- BASED ON APPROVED ATC APPLICATION 283424, DATED 05/08/20. CONFIRM WITH AT&T MOBILITY REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG). GC TO CAP ALL UNUSED PORTS.
  - ATC HAS NOT YET VERIFIED ANY EXISTING ANTENNA CONFIG OR MOUNT CONFIG. CONTRACTOR TO VERIFY MOUNT CONFIG HAS SUFFICIENT SPACE FOR PROPOSED LESSEE EQUIPMENT (EQUIP) (I.E. CLEARANCES, MOUNT PIPE, SUFFICIENT LENGTH, ETC.) ATC DID NOT ANALYZE ANTENNA MOUNT TO DETERMINE ADEQUATE STRUCTURAL CAPACITY FOR ANY LESSEE LOADING.
  - ALL PROPOSED EQUIP INCLUDING ANTENNAS, COAX, ETC. SHALL BE MOUNTED IN ACCORDANCE WITH THE TOWER STRUCTURAL ANALYSIS ON FILE WITH ATC'S CM.
  - CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.
  - POSITIONS START WITH FIRST PIPE ON THE LEFT SIDE (AS VIEWED FROM BEHIND THE MOUNT).

FINAL ANTENNA SCHEDULE									
LOCATION			ANTENNA SUMMARY				NON ANTENNA SUMMARY		
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS	
ALPHA	126'	30°	A1	SBNH-1D6565C	UMTS	RMN	RRUS-11 B5	ADD	
			A2	HPA-65R-BUU-H8	LTE	REL	-	-	
			A3	OPA65R-BU8DA	LTE	ADD	RRUS-4478 B14	ADD	
			A4	DMP65R-BU8DA	LTE	ADD	RRUS-4449 B5/B12	ADD	
BETA	126'	150°	B1	SBNH-1D6565C	UMTS	RMN	RRUS-11 B5	ADD	
			B2	HPA-65R-BUU-H8	LTE	REL	-	-	
			B3	OPA65R-BU8DA	LTE	ADD	RRUS-4478 B14	ADD	
			B4	DMP65R-BU8DA	LTE	ADD	RRUS-4449 B5/B12	ADD	
GAMMA	126'	270°	C1	SBNH-1D6565C	UMTS	RMN	RRUS-11 B5	ADD	
			C2	HPA-65R-BUU-H8	LTE	REL	-	-	
			C3	OPA65R-BU8DA	LTE	ADD	RRUS-4478 B14	ADD	
			C4	DMP65R-BU8DA	LTE	ADD	RRUS-4449 B5/B12	ADD	

EXISTING FIBER DISTRIBUTION/SQUID						EXISTING CABLING SUMMARY						
MODEL NUMBER	STATUS	COAX	DC	FIBER	STATUS	STATUS ABBREVIATIONS	MODEL NUMBER	STATUS	COAX	DC	FIBER	STATUS
(2) DC2-48-60-8-18F-02	RMN	-	(4) 0.78"	(2) 0.39"	RMN	RMN: TO BE REMOVED RMN: TO REMAIN REL: TO BE RELOCATED DSC: TO BE DISCONNECTED & REMAIN ADD: TO BE ADDED						

**3 EQUIPMENT SCHEDULES**

CABLE LENGTHS FOR JUMPERS  
FIBER DISTRIBUTION/SQUID TO RRU: 15'  
RRU TO ANTENNA: 10'

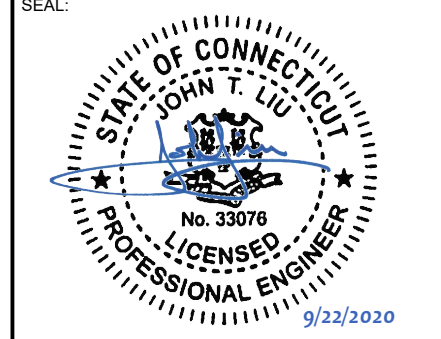
FINAL FIBER DISTRIBUTION/SQUID		
MODEL NUMBER	STATUS	CD
(2) DC2-48-60-8-18F-02	RMN	REDLINED CDs Ramapo Communication Corp 3/23/2021 Matthew Schlosser
DC2-48-60-8-18F-02	ADD	



**SMW ENGINEERING GROUP, INC.**  
TOGETHER PLANNING A BETTER TOMORROW  
158 BUSINESS CENTER DRIVE  
BIRMINGHAM, AL 35244  
TEL: 205-252-6985 FAX: 205-320-1504

REV.	DESCRIPTION	BY	DATE
1	FOR CONSTRUCTION	ZDS	09/22/20

ATC SITE NUMBER:  
**283424**  
ATC SITE NAME:  
**WATERTOWN CT**  
SITE ADDRESS:  
655 BASSETT ROAD  
WATERTOWN, CT 06795-1139



DATE DRAWN: 05/29/20  
ATC JOB NO: 283424  
CUSTOMER ID: 10128117  
CUSTOMER #: 20-10237

**RF SCHEDULE AND ANTENNA INSTALLATION**  
SHEET NUMBER: **C-401**  
REVISION: **1**





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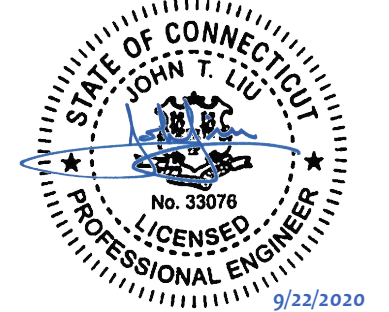
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REV.	DESCRIPTION	BY	DATE
1	FOR CONSTRUCTION	ZDS	09/22/20

ATC SITE NUMBER:  
**283424**  
 ATC SITE NAME:  
**WATERTOWN CT**

SITE ADDRESS:  
 655 BASSETT ROAD  
 WATERTOWN, CT 06795-1139

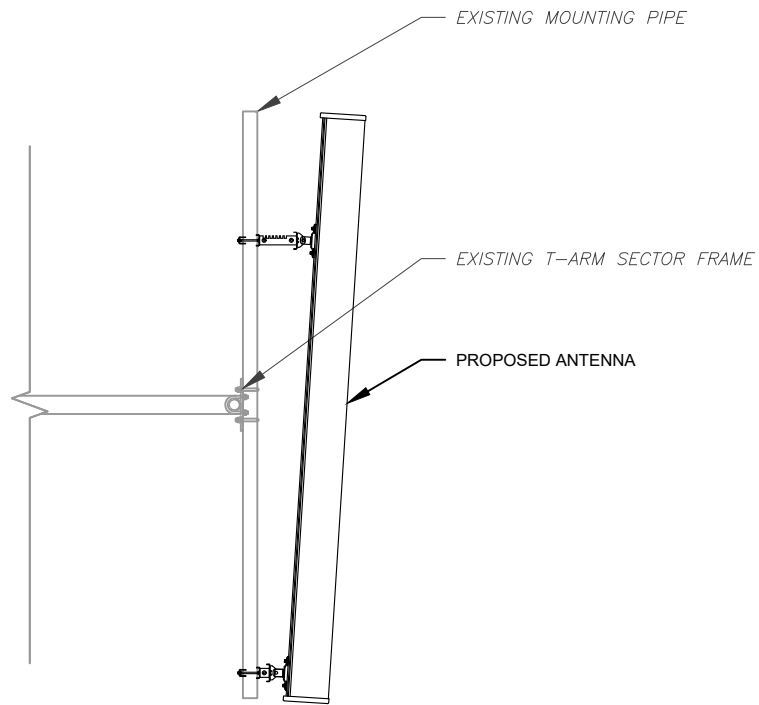
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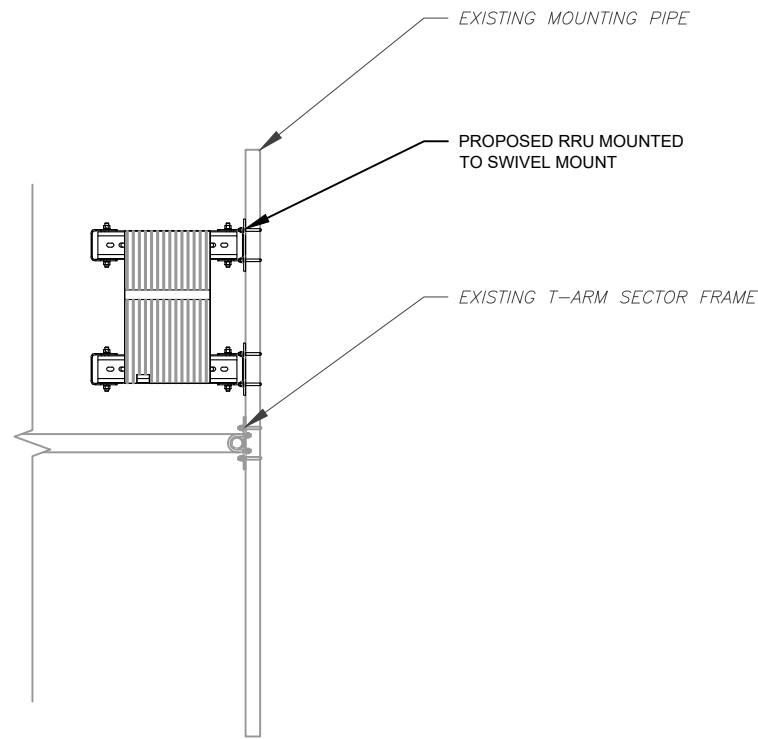
DATE DRAWN:	05/29/20
ATC JOB NO:	283424
CUSTOMER ID:	10128117
CUSTOMER #:	20-10237

**CONSTRUCTION  
 DETAILS**

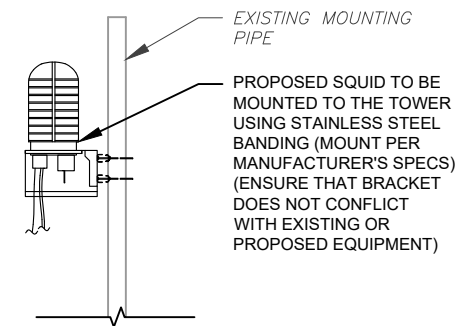
SHEET NUMBER: <b>C-501</b>	REVISION: <b>1</b>
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1 ANTENNA DETAIL  
 SCALE: N.T.S.

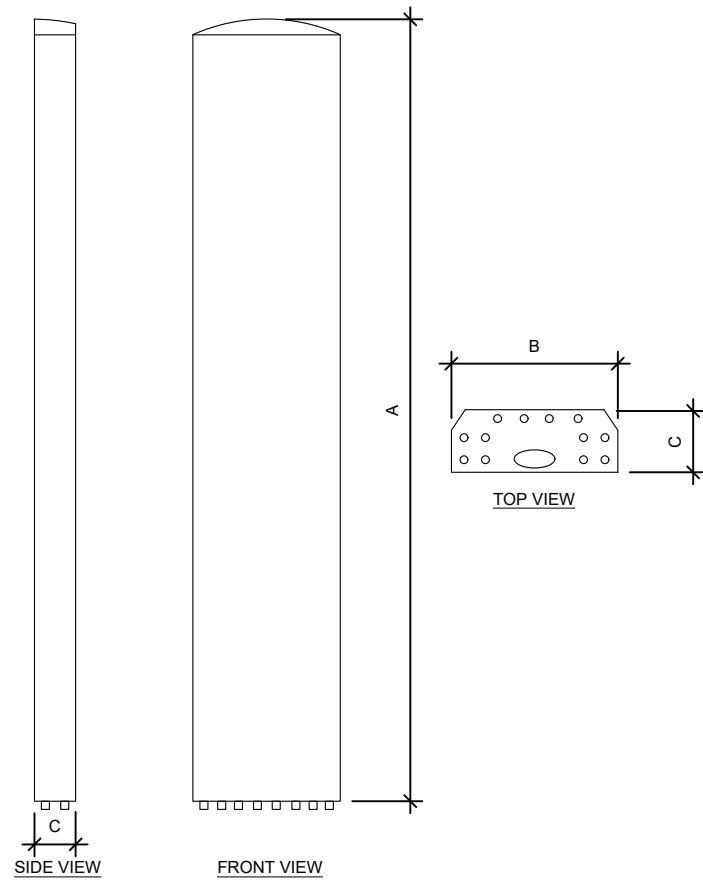


2 RRU DETAIL  
 SCALE: N.T.S.

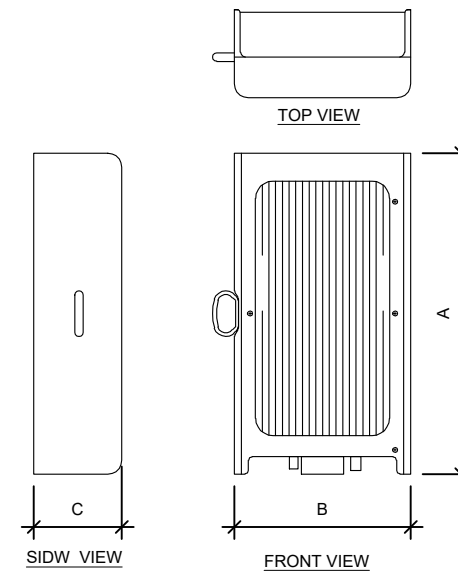


3 PROPOSED SQUID MOUNTING  
 SCALE: NOT TO SCALE

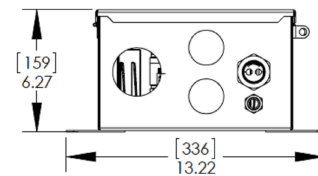
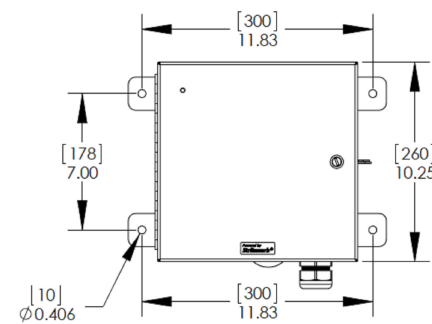
REDLINED CDs  
 Ramapo Communication Corp  
 3/23/2021  
 Matthew Schlosser  
 Matthew Schlosser



ANTENNA SPECIFICATIONS				
ANTENNA MODEL	A	B	C	WEIGHT (LBS)
OPA65R-BU8DA	96.0"	21"	7.8"	76.5
DMP65R-BU8DA	96.0"	20.7"	7.7"	95.7



RRU SPECIFICATIONS				
RRU MODEL	A	B	C	WEIGHT (LBS)
RRUS-11 B5	19.69"	16.97"	7.17"	55.0
RRUS-4478 B14	18.1"	13.4"	8.3"	59.4
RRUS-4449 B5/B12	17.9"	13.2"	9.4"	71.0
RRUS-8843 B2/B66A	18.0"	13.2"	11.3"	75.0



RAYCAP SPECIFICATIONS				
RAYCAP MODEL	A	B	C	WEIGHT (LBS)
DC2-48-60-8-18F-02	13.22"	11.64"	6.27"	16.0

**1 EQUIPMENT SPECIFICATIONS**  
SCALE: NOT TO SCALE

REDLINED CDs  
Ramapo Communication Corp  
3/23/2021  
Matthew Schlosser  
Matthew Schlosser

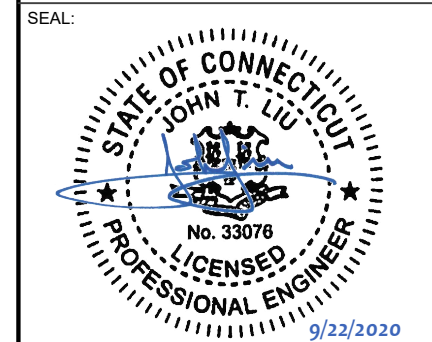


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158 BUSINESS CENTER DRIVE  
BIRMINGHAM, AL 35244  
TEL: 205-252-6985 FAX: 205-320-1504

REV.	DESCRIPTION	BY	DATE
1	FOR CONSTRUCTION	ZDS	09/22/20

ATC SITE NUMBER:  
**283424**  
ATC SITE NAME:  
**WATERTOWN CT**

SITE ADDRESS:  
655 BASSETT ROAD  
WATERTOWN, CT 06795-1139

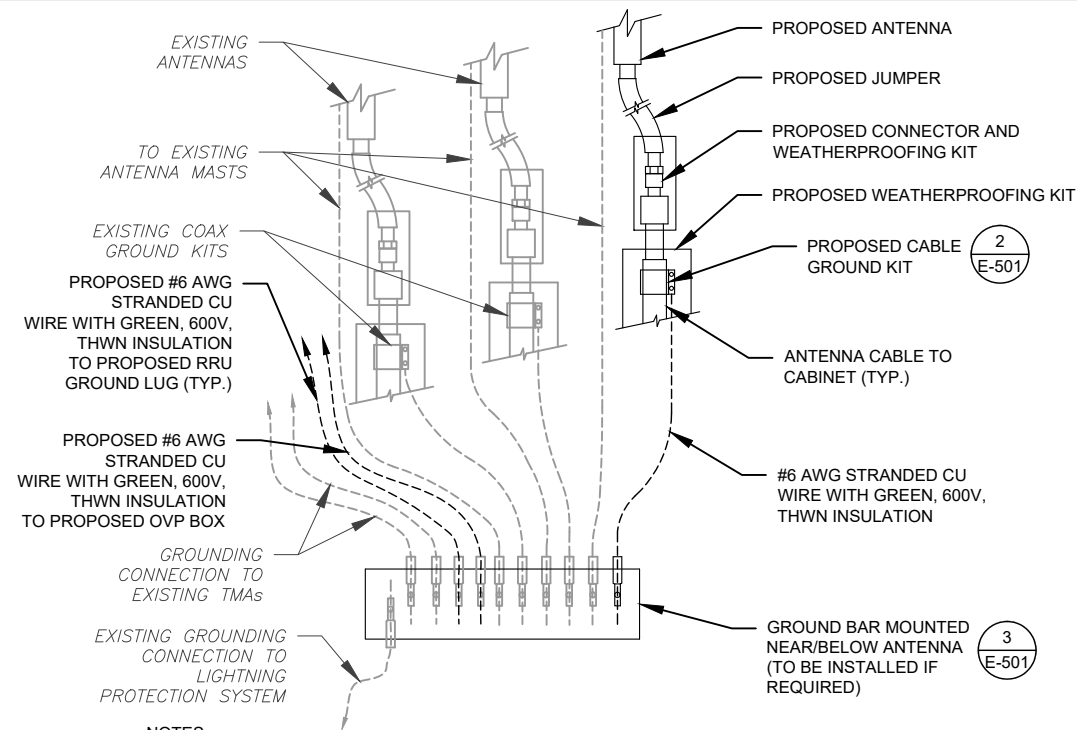


DATE DRAWN:	05/29/20
ATC JOB NO:	283424
CUSTOMER ID:	10128117
CUSTOMER #:	20-10237

**EQUIPMENT SPECIFICATIONS**

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

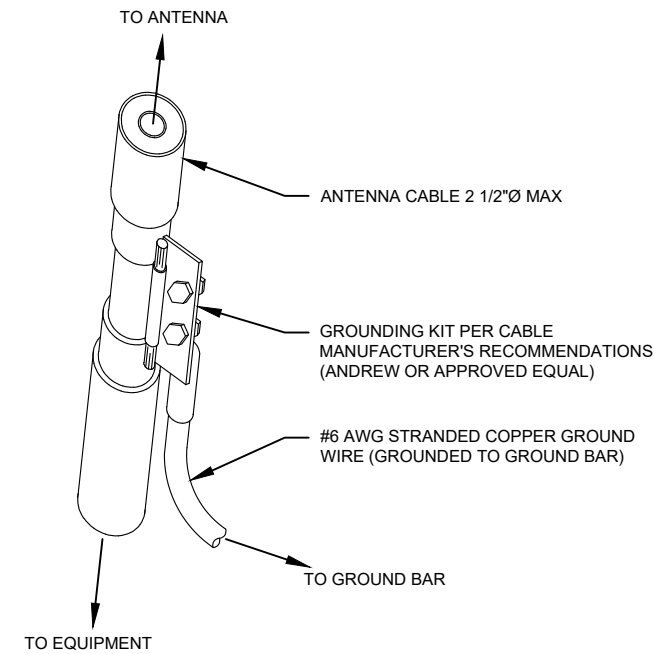
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**NOTES:**

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

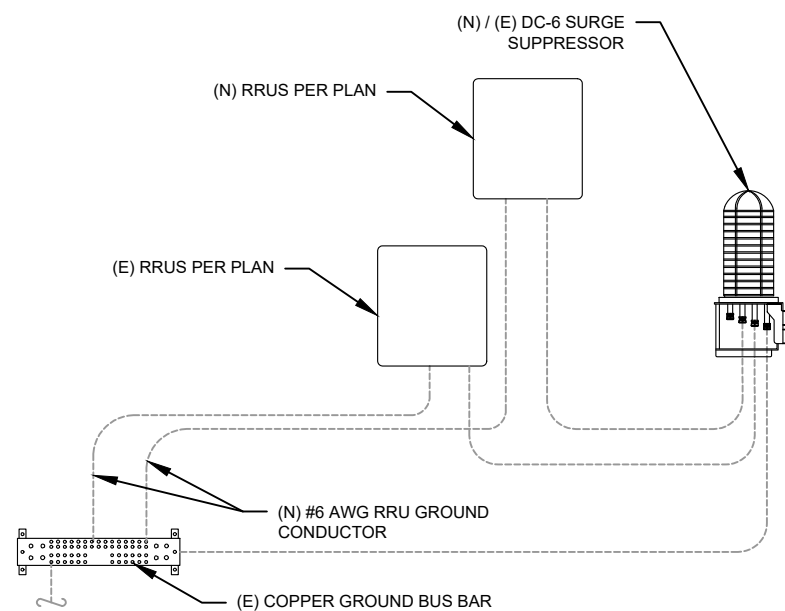
**1 TYPICAL ANTENNA GROUNDING DIAGRAM**  
SCALE: N.T.S.



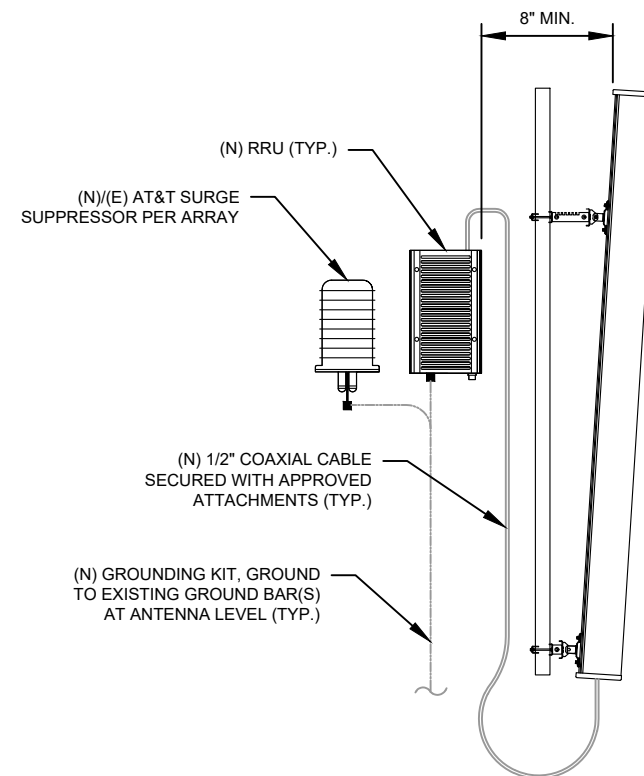
**GROUND KIT NOTES:**

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

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



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



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

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Ramapo Communication Corp  
3/23/2021  
Matthew Schlosser  
Matthew Schlosser



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REV.	DESCRIPTION	BY	DATE
1	FOR CONSTRUCTION	ZDS	09/22/20

ATC SITE NUMBER:

**283424**

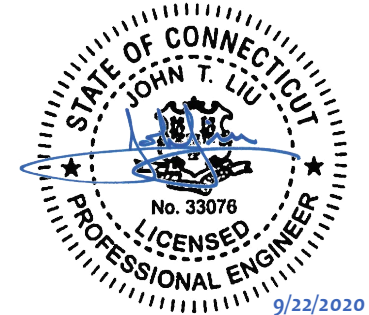
ATC SITE NAME:

**WATERTOWN CT**

SITE ADDRESS:

655 BASSETT ROAD  
WATERTOWN, CT 06795-1139

SEAL:



DATE DRAWN:	05/29/20
ATC JOB NO:	283424
CUSTOMER ID:	10128117
CUSTOMER #:	20-10237

**GROUNDING DETAILS**

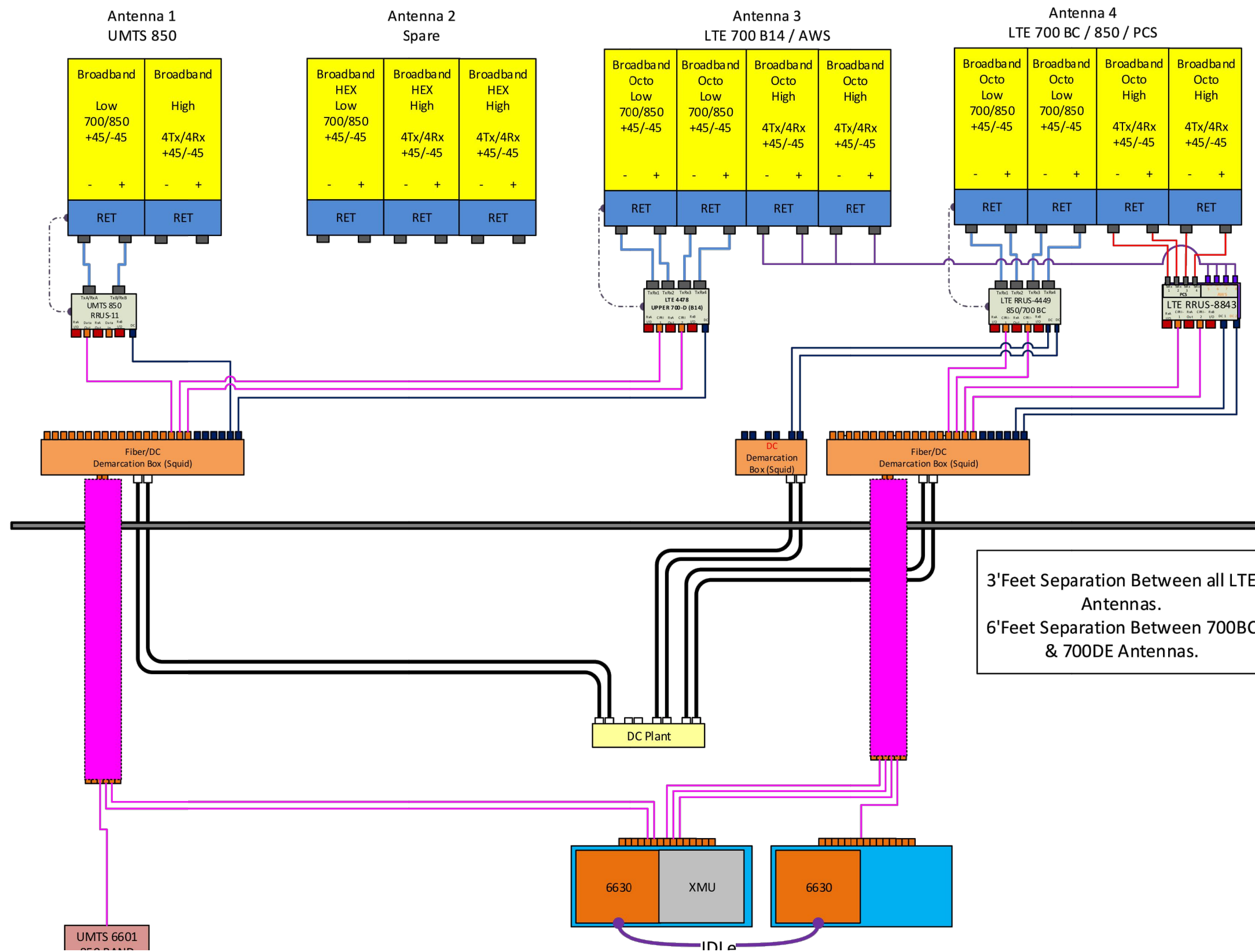
SHEET NUMBER:

**E-501**

REVISION:

**1**

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1 PLUMBING DIAGRAM  
SCALE: NOT TO SCALE

NOTE: THIS SHEET BY REDLINED CDs  
Ramapo Communication Corp  
3/23/2021  
Matthew Schlosser  
Matthew Schlosser

SUPPLEMENTAL	
SHEET NUMBER: <b>R-601</b>	REVISION: -



Eng. Number 13213496\_C9\_06  
July 13, 2020  
Page 1

## Antenna Mount Analysis Report

**ATC Site Name** : WATERTOWN CT, CT  
**ATC Site Number** : 283424  
**Engineering Number** : 13213496\_C9\_06  
**Mount Elevation** : 124 ft  
**Carrier** : AT&T Mobility  
**Carrier Site Name** : MRCTB046623  
**Carrier Site Number** : CTL01835  
**Site Location** : 655 Bassett Road  
 Watertown, CT 06795-1139  
 41.65707777, -73.1362611  
**County** : Litchfield  
**Date** : July 13, 2020  
**Max Usage** : 98%  
**Result** : Contingent Pass

Prepared By:  
Mitchell Chen  
Structural Engineer I

Reviewed By:

COA: PEC.0001553

### Introduction

The purpose of this report is to summarize results of the antenna mount analysis performed for AT&T Mobility at 124 ft.

### Supporting Documents

Mount Mapping	MasTec Project #202197, dated June 17, 2020
Radio Frequency Data Sheet	RFDS ID #10128117, dated March 24, 2020
Reference Photos	Site photos from 2020

### Analysis

This antenna mount was analyzed using American Tower Corporation's Mount Analysis Program and RISA-3D

Basic Wind Speed:	115 mph (3-Second Gust)
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) w/ 1" radial ice concurrent
Codes:	ANSI/TIA-222-H
Exposure Category:	C
Risk Category:	II
Topographic Factor Procedure:	Method 2
Feature:	Flat
Crest Height (H):	0 ft
Crest Length (L):	0 ft
Spectral Response:	Ss = 0.185, S1 = 0.054
Site Class:	D - Stiff Soil
Live Loads:	Lm = 500 lbs, Lv = 250 lbs

### Conclusion

Based on the analysis results, the antenna mount does not meet the requirements per the applicable codes listed above. The mount can support the equipment as described in this report after the below listed modifications are completed:

- Install modifications per ATC drawing #13213496\_C9\_06.

If you have any questions or require additional information, please contact American Tower via email at [Engineering@americantower.com](mailto:Engineering@americantower.com). Please include the American Tower site name, site number, and engineering number in the subject line for any questions.

A.T. Engineering Service, PLLC - 3500 Regency Parkway, Suite 100 - Cary, NC 27518 - 919.468.0112 Office - 919.466.5414 Fax - www.americantower.com

A.T. Engineering Service, PLLC - 3500 Regency Parkway, Suite 100 - Cary, NC 27518 - 919.468.0112 Office - 919.466.5414 Fax - www.americantower.com

1 MOUNT ANALYSIS  
SCALE: NOT TO SCALE

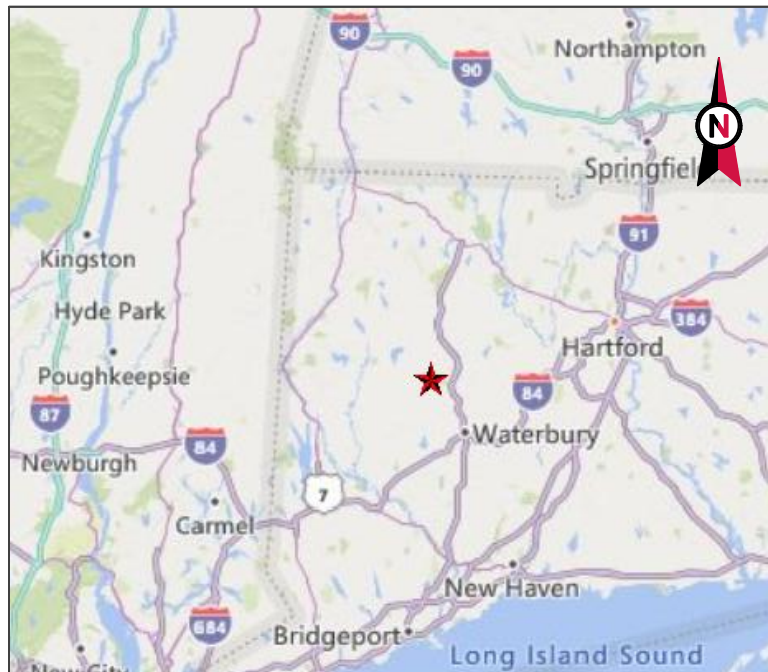
NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED WITHOUT EDIT. PLEASE REFERENCE THE MOUNT ANALYSIS CALCULATIONS AND DETAILS. SUPPLEMENTAL CONSTRUCTION DRAWINGS ARE FOR REFERENCE ONLY. VERIFY THEY HAVE THE MOST RECENT MOUNT ANALYSIS.

REDLINED CDs  
Ramapo Communication Corp  
3/23/2021  
Matthew Schlosser  
Matthew Schlosser

SUPPLEMENTAL

SHEET NUMBER:  
**R-602**

REVISION:  
-



VICINITY MAP



**AMERICAN TOWER®**

SITE NAME: WATERTOWN CT  
 SITE NUMBER: 283424  
 ATC PROJECT NUMBER: 13213496\_C9\_06  
 SITE ADDRESS: 655 BASSETT ROAD  
 WATERTOWN, CT 06795



LOCATION MAP

MOUNT REINFORCEMENT DRAWINGS  
 PREPARED FOR AT&T MOBILITY

**AMERICAN TOWER®**  
 A.T. ENGINEERING SERVICE, PLLC  
 3500 REGENCY PARKWAY  
 SUITE 100  
 CARY, NC 27518  
 PHONE: (919) 468-0112  
 COA: PEC.0001553

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REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	CGM	07/15/20

ATC SITE NUMBER:  
 283424  
 ATC SITE NAME:  
 WATERTOWN CT  
 CONNECTICUT  
 SITE ADDRESS:  
 655 BASSETT ROAD  
 WATERTOWN, CT 06795



DRAWN BY: CGM  
 APPROVED BY: MCC  
 DATE DRAWN: 07/15/20  
 ATC JOB NO: 13213496\_C9\_06

COVER

SHEET NUMBER: **G-001** REVISION: **0**

REDLINED CDs  
 Ramapo Communication Corp  
 3/23/2021  
 Matthew Schlosser  
 Matthew Schlosser

PROJECT TEAM	PROJECT DESCRIPTION	SHEET	SHEET TITLE	REV.
<p><b>TOWER OWNER</b>            AMERICAN TOWER            10 PRESIDENTAL WAY            WOBURN, MA 01801</p> <p><b>ENGINEERED BY</b>            ATC TOWER SERVICES            3500 REGENCY PARKWAY, SUITE 100            CARY, NC 27518</p> <p><b>CARRIER INFORMATION</b>            CARRIER: AT&amp;T MOBILITY            CARRIER SITE NAME: MRCTB046623            CARRIER SITE NUMBER: CTL01835</p>	<p>THE MODIFICATIONS PRESENTED ON THESE DRAWINGS ARE BASED ON THE RECOMMENDATIONS OUTLINED IN THE MOUNT ANALYSIS COMPLETED UNDER ENGINEERING PROJECT NUMBER 13213496_C8_03 DATED 07/02/20. SATISFACTORY COMPLETION OF THE WORK INDICATED ON THESE DRAWINGS WILL RESULT IN THE MOUNT MEETING THE REQUIREMENTS OF THE SPECIFICATIONS UNDER WHICH THE MOUNT ANALYSIS WAS COMPLETED.</p> <p><b>COMPLIANCE CODE</b></p> <p>ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.</p> <p>1. ANSI/TIA/EIA: STRUCTURAL STANDARDS (222-H EDITION)            2. INTERNATIONAL BUILDING CODE (2015 IBC)            3. CONNECTICUT STATE BUILDING CODE (2018)</p>	G-002	IBC GENERAL NOTES AND MOUNT MODIFICATION INSPECTION	0
		S-101	MODIFICATION PROFILE	0
		R-601	SUPPLEMENTAL	0
		R-602	SUPPLEMENTAL	0
<p><b>811</b>            Know what's below.            Call before you dig.</p>	<b>PROJECT LOCATION</b>			
	<b>GEOGRAPHIC COORDINATES</b>			
	LATITUDE: 41.65707777 LONGITUDE: -73.1362611			

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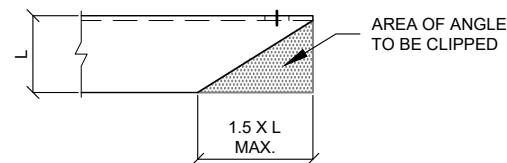
**GENERAL**

- ALL WORK TO BE COMPLETED PER APPLICABLE LOCAL, STATE, FEDERAL CODES AND ORDINANCES AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS FOR WIRELESS TOWER SITES. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND ABIDING BY ALL REQUIRED PERMITS.
- ALL WORK INDICATED ON THESE DRAWINGS SHALL BE PERFORMED BY QUALIFIED CONTRACTORS EXPERIENCED IN TOWER AND FOUNDATION CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IMMEDIATELY OF ANY INSTALLATION INTERFERENCES. ALL NEW WORK SHALL ACCOMMODATE EXISTING CONDITIONS. DETAILS NOT SPECIFICALLY SHOWN ON THE DRAWINGS SHALL FOLLOW SIMILAR DETAILS FOR THIS JOB.
- ANY SUBSTITUTIONS SHALL CONFORM TO THE REQUIREMENTS OF THESE NOTES AND SPECIFICATIONS, AND SHOULD BE SIMILAR TO THOSE SHOWN. ALL SUBSTITUTIONS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- ANY MANUFACTURED DESIGN ELEMENTS SHALL CONFORM TO THE REQUIREMENTS OF THESE NOTES AND SPECIFICATIONS AND SHOULD BE SIMILAR TO THOSE SHOWN. THESE DESIGN ELEMENTS MUST BE STAMPED BY AN ENGINEER PROFESSIONALLY REGISTERED IN THE STATE OF THE PROJECT, AND SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO FABRICATION.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL CODES AND OSHA SAFETY REGULATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND EXECUTION OF ALL MISCELLANEOUS SHORING, BRACING, TEMPORARY SUPPORTS, ETC. NECESSARY, PER ANSI/TIA-322 AND ANSI/ASSE A10.48, TO PROVIDE A COMPLETE AND STABLE STRUCTURE AS SHOWN ON THESE DRAWINGS.
- CONTRACTOR'S PROPOSED INSTALLATION SHALL NOT INTERFERE, NOR DENY ACCESS TO, ANY EXISTING OPERATIONAL AND SAFETY EQUIPMENT.

**STRUCTURAL STEEL**

- ALL DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AISC SPECIFICATIONS, LATEST EDITION.
- ALL EXPOSED STRUCTURAL STEEL MEMBERS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A123. EXPOSED STEEL HARDWARE AND ANCHOR BOLTS SHALL BE GALVANIZED PER ASTM A153 OR B695.
- ALL U-BOLTS SHALL BE ASTM A36 OR EQUIVALENT, WITH LOCKING DEVICE, UNLESS NOTED OTHERWISE.
- FIELD CUT EDGES, EXCEPT DRILLED HOLES, SHALL BE GROUND SMOOTH.
- ALL FIELD CUT SURFACES, FIELD DRILLED HOLES & GROUND SURFACES WHERE EXISTING PAINT OR GALVANIZATION REMOVAL WAS REQUIRED SHALL BE REPAIRED WITH (2) BRUSHED COATS OF ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.
- ALL STRUCTURAL STEEL EMBEDDED IN THE CONCRETE SHALL BE APPLIED WITH (2) BRUSHED COATS OF POLYGUARD CA-14 MASTIC OR EQUIVALENT. REFER TO THE MANUFACTURER SPECIFICATIONS FOR SURFACE PREPARATION AND APPLICATION. APPLICATION OF POLYGUARD 400 WRAP IS NOT ESSENTIAL.
- CONTRACTOR SHALL PERFORM WORK ON ONLY ONE (1) TOWER FACE AND REPLACE/REINFORCE ONE (1) BOLT/MEMBER AT A TIME.
- ALL FIELD DRILLED HOLES TO BE USED FOR FIELD BOLTING INSTALLATION SHALL BE STANDARD HOLES, AS DEFINED BY AISC, UNLESS NOTED OTHERWISE.

**MAXIMUM ALLOWABLE ANGLE CLIP**



**PAINT**

- AS REQUIRED, CLEAN AND PAINT PROPOSED STEEL ACCORDING TO FAA ADVISORY CIRCULAR AC 70/7460-1L.

**WELDING**

- ALL WELDING TO BE PERFORMED BY AWS CERTIFIED WELDERS AND CONDUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS WELDING CODE D1.1.
- ALL WELDS SHALL BE INSPECTED VISUALLY. IF DIRECTED BY ENGINEER OF RECORD, 25% OF WELDS SHALL BE INSPECTED WITH DYE PENETRANT OR MAGNETIC PARTICLE (100% IF REJECTABLE DEFECTS ARE FOUND) TO MEET THE ACCEPTANCE CRITERIA OF AWS D1.1. REPAIR ALL WELDS AS NECESSARY.
- INSPECTION SHALL BE PERFORMED BY AN AWS CERTIFIED WELD INSPECTOR.
- ALL ELECTRODES TO BE LOW HYDROGEN, MATCHING FILLER AND/OR BASE METAL, PER AWS D1.1, UNLESS NOTED OTHERWISE.
- IN CASES WHERE BASE METAL GRADE IS UNKNOWN, ALL WELDING ON LATTICE TOWERS SHALL BE DONE WITH E70XX ELECTRODES; ALL WELDING ON POLE STRUCTURES SHALL BE DONE WITH E80XX ELECTRODES, UNLESS NOTED OTHERWISE.
- PRIOR TO FIELD WELDING GALVANIZED MATERIAL, CONTRACTOR SHALL GRIND OFF GALVANIZING 1/2" BEYOND ALL FIELD WELD SURFACES. AFTER WELD AND WELD INSPECTION IS COMPLETE, REPAIR ALL GROUND AND WELDED SURFACES WITH ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.

**BOLT TIGHTENING PROCEDURE**

- STRUCTURAL CONNECTIONS TO BE ASSEMBLED AND INSPECTED IN ACCORDANCE WITH RCSC SPECIFICATIONS.
- FLANGE BOLTS SHALL BE INSTALLED AND TIGHTENED USING DIRECT TENSION INDICATING (DTI) SQUIRTER WASHERS. DTI SQUIRTER WASHERS ARE TO BE INSTALLED AND ORIENTED / TIGHTENED PER MANUFACTURER SPECIFICATIONS TO ACHIEVE DESIRED LEVEL OF BOLT PRE-TENSION.
- IN LIEU OF USING DTI SQUIRTER WASHERS, FLANGE BOLTS MAY BE TIGHTENED USING AISC / RCSC "TURN-OF-THE-NUT" METHOD, PENDING APPROVAL BY THE ENGINEER OF RECORD (EOR). TIGHTEN FLANGE BOLTS USING THE CHART BELOW:

**BOLT LENGTHS UP TO AND INCLUDING FOUR DIAMETERS**

1/2"	BOLTS UP TO AND INCLUDING 2.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
5/8"	BOLTS UP TO AND INCLUDING 2.5 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
3/4"	BOLTS UP TO AND INCLUDING 3.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
7/8"	BOLTS UP TO AND INCLUDING 3.5 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1"	BOLTS UP TO AND INCLUDING 4.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1-1/8"	BOLTS UP TO AND INCLUDING 4.5 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1-1/4"	BOLTS UP TO AND INCLUDING 5.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1-3/8"	BOLTS UP TO AND INCLUDING 5.5 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1-1/2"	BOLTS UP TO AND INCLUDING 6.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT

**BOLT LENGTHS OVER FOUR DIAMETERS BUT NOT EXCEEDING EIGHT DIAMETERS**

1/2"	BOLTS 2.25 TO 4.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
5/8"	BOLTS 2.75 TO 5.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
3/4"	BOLTS 3.25 TO 6.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
7/8"	BOLTS 3.75 TO 7.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1"	BOLTS 4.25 TO 8.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1-1/8"	BOLTS 4.75 TO 9.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1-1/4"	BOLTS 5.25 TO 10.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1-3/8"	BOLTS 5.75 TO 11.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1-1/2"	BOLTS 6.25 TO 12.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT

**MODIFICATION INSPECTION NOTES**

THE MOUNT MODIFICATION INSPECTION (MMI) PROCEDURE IS INTENDED TO CONFIRM THAT CONSTRUCTION AND INSTALLATION MEETS ENGINEERING DESIGN, ATC PROCEDURES AND ATC STANDARD SPECIFICATIONS FOR WIRELESS TOWER SITES.

TO ENSURE THAT THE REQUIREMENTS OF THE MMI ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR SUBMIT ALL REQUIRED PHOTOGRAPHS AND DRAWINGS TO AMERICAN TOWER CORPORATION (ATC).

MOUNT MODIFICATION INSPECTION CHECKLIST			
INSPECTION DOCUMENT	DESCRIPTION	INSPECTION TESTING REQUIRED	RESPONSIBILITY
ON-SITE COLD GALVANIZING VERIFICATION	PHOTOGRAPHIC EVIDENCE OF COLD GALVANIZATION TYPE AND APPLICATION IN ALL APPLICABLE LOCATIONS TO BE INCLUDED WITHIN THE MMI REPORT	✓	GC
GC AS-BUILT DRAWINGS WITH CONSTRUCTION RED-LINES	"AS-BUILT" DRAWINGS INDICATING ANY APPROVED CHANGES TO ENGINEERED PLANS TO MMI FOR APPROVAL/REVIEW AND INCLUSION IN MMI REPORT	✓	GC
PHOTOGRAPHS	PHOTOGRAPHIC EVIDENCE OF MOUNT MODIFICATION INSPECTION, ON SITE REMEDIATION, AND ITEMS FAILING INSPECTION & REQUIRING FOLLOW UP TO BE INCLUDED WITHIN THE MMI REPORT. COMPLETE PHOTO LOG IS TO BE SUBMITTED WITHIN MMI REPORT.	✓	GC

TABLE KEY:  
MMI - MOUNT MODIFICATION INSPECTION  
GC - GENERAL CONTRACTOR  
ATC - AMERICAN TOWER CORPORATION

**BOLT TIGHTENING PROCEDURE (CONTINUED)**

- SPLICE BOLTS SUBJECT TO DIRECT TENSION SHALL BE INSTALLED AND TIGHTENED AS PER SECTION 8.2.1 OF THE AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS", LOCATED IN THE AISC MANUAL OF STEEL CONSTRUCTION. THE INSTALLATION PROCEDURE IS PARAPHRASED AS FOLLOWS:

FASTENERS SHALL BE INSTALLED IN PROPERLY ALIGNED HOLES AND TIGHTENED BY ONE OF THE METHODS DESCRIBED IN SUBSECTION 8.2.1 THROUGH 8.2.4.

**8.2.1 TURN-OF-NUT PRETENSIONING**

BOLTS SHALL BE INSTALLED IN ALL HOLES OF THE CONNECTION AND BROUGHT TO A SNUG TIGHT CONDITION AS DEFINED IN SECTION 8.1, UNTIL ALL THE BOLTS ARE SIMULTANEOUSLY SNUG TIGHT AND THE CONNECTION IS FULLY COMPACTED. FOLLOWING THIS INITIAL OPERATION ALL BOLTS IN THE CONNECTION SHALL BE TIGHTENED FURTHER BY THE APPLICABLE AMOUNT OF ROTATION SPECIFIED ABOVE. DURING THE TIGHTENING OPERATION THERE SHALL BE NO ROTATION OF THE PART NOT TURNED BY THE WRENCH. TIGHTENING SHALL PROGRESS SYSTEMATICALLY.

- ALL OTHER BOLTED CONNECTIONS SHALL BE BROUGHT TO A SNUG TIGHT CONDITION AS DEFINED IN SECTION 8.1 OF THE SPECIFICATION.

ALL BOLT HOLES SHALL BE ALIGNED TO PERMIT INSERTION OF THE BOLTS WITHOUT UNDUE DAMAGE TO THE THREADS. BOLTS SHALL BE PLACED IN ALL HOLES WITH WASHERS POSITIONED AS REQUIRED AND NUTS THREADED TO COMPLETE THE ASSEMBLY. COMPACTING THE JOINT TO THE SNUG-TIGHT CONDITION SHALL PROGRESS SYSTEMATICALLY FROM THE MOST RIGID PART OF THE JOINT. THE SNUG-TIGHTENED CONDITION IS THE TIGHTNESS THAT IS ATTAINED WITH A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF AN IRONWORKER USING AN ORDINARY SPUD WRENCH TO BRING THE CONNECTED PLIES INTO FIRM CONTACT.

**GENERAL CONTRACTOR**

THE GENERAL CONTRACTOR IS REQUIRED TO:

- REVIEW THE REQUIREMENTS OF THE MMI CHECKLIST.
- UNDERSTAND ALL INSPECTION REQUIREMENTS.

THE GENERAL CONTRACTOR SHALL PERFORM AND RECORD THE INSPECTION RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE MMI CHECKLIST.

**REDLINED CDs**  
Ramapo Communication Corp  
3/23/2021  
Matthew Schlosser  
Matthew Schlosser



THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OR SERVICE ARE THE EXCLUSIVE PROPERTY OF AMERICAN TOWER. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF AMERICAN TOWER WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER.

REV.	DESCRIPTION	BY	DATE
△	FIRST ISSUE	CGM	07/15/20
△			
△			
△			
△			

ATC SITE NUMBER:

283424

ATC SITE NAME:

**WATERTOWN CT  
CONNECTICUT**

SITE ADDRESS:

655 BASSETT ROAD  
WATERTOWN, CT 06795



DRAWN BY:	CGM
APPROVED BY:	MCC
DATE DRAWN:	07/15/20
ATC JOB NO:	13213496_C9_06

**IBC GENERAL NOTES  
AND MOUNT MODIFICATION  
INSPECTION**

SHEET NUMBER:

**G-002**

REVISION:

**0**



**AMERICAN TOWER®**  
**A.T. ENGINEERING SERVICE, PLLC**  
 3500 REGENCY PARKWAY  
 SUITE 100  
 CARY, NC 27518  
 PHONE: (919) 468-0112  
 COA: PEC.0001553

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REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	CGM	07/15/20

ATC SITE NUMBER:  
**283424**

ATC SITE NAME:  
**WATERTOWN CT**  
**CONNECTICUT**

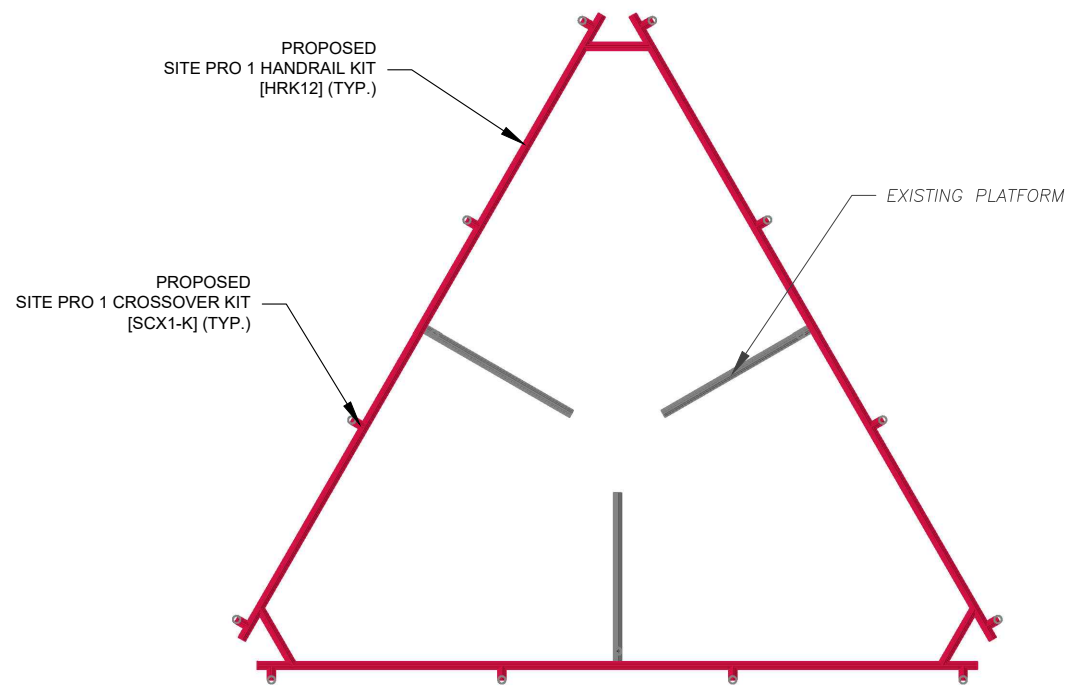
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 655 BASSETT ROAD  
 WATERTOWN, CT 06795



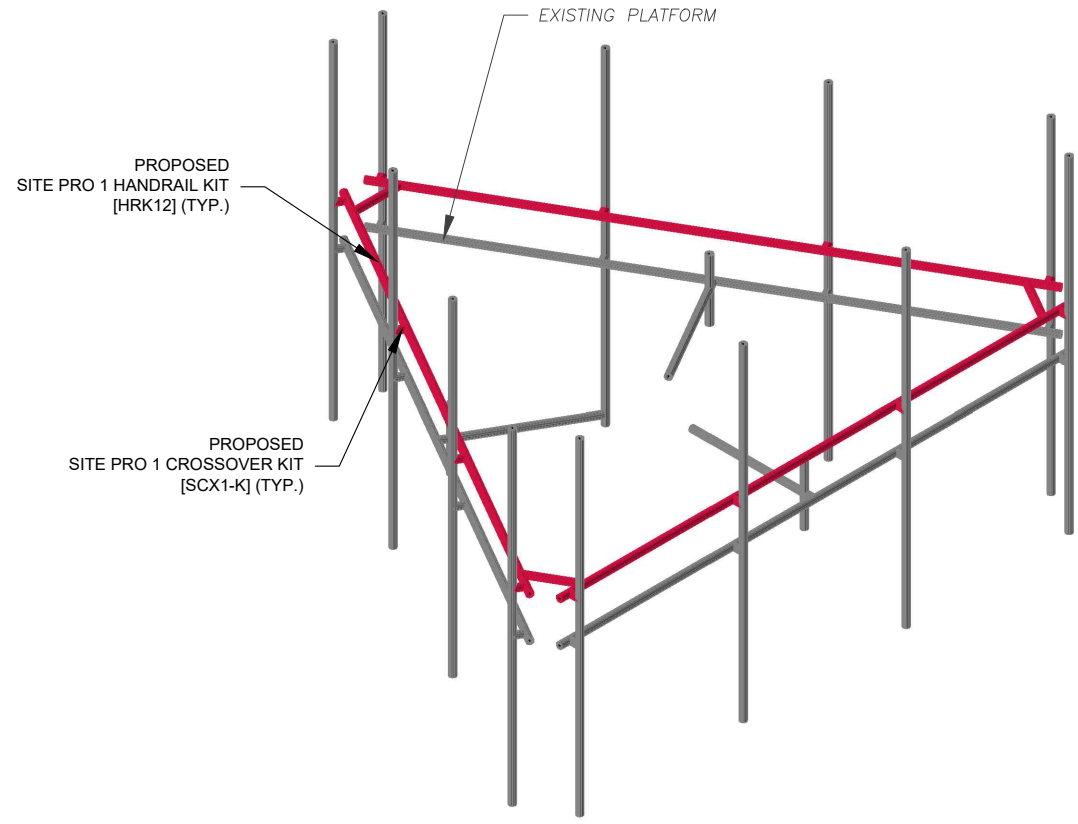
DRAWN BY:	CGM
APPROVED BY:	MCC
DATE DRAWN:	07/15/20
ATC JOB NO:	13213496_C9_06

**MODIFICATION PROFILE**

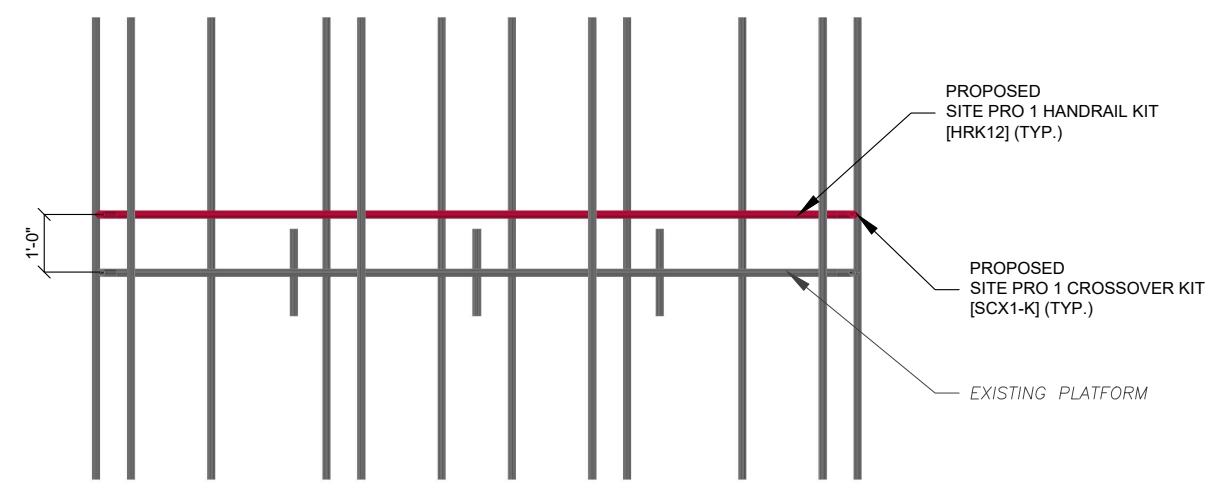
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<b>S-101</b>	<b>0</b>



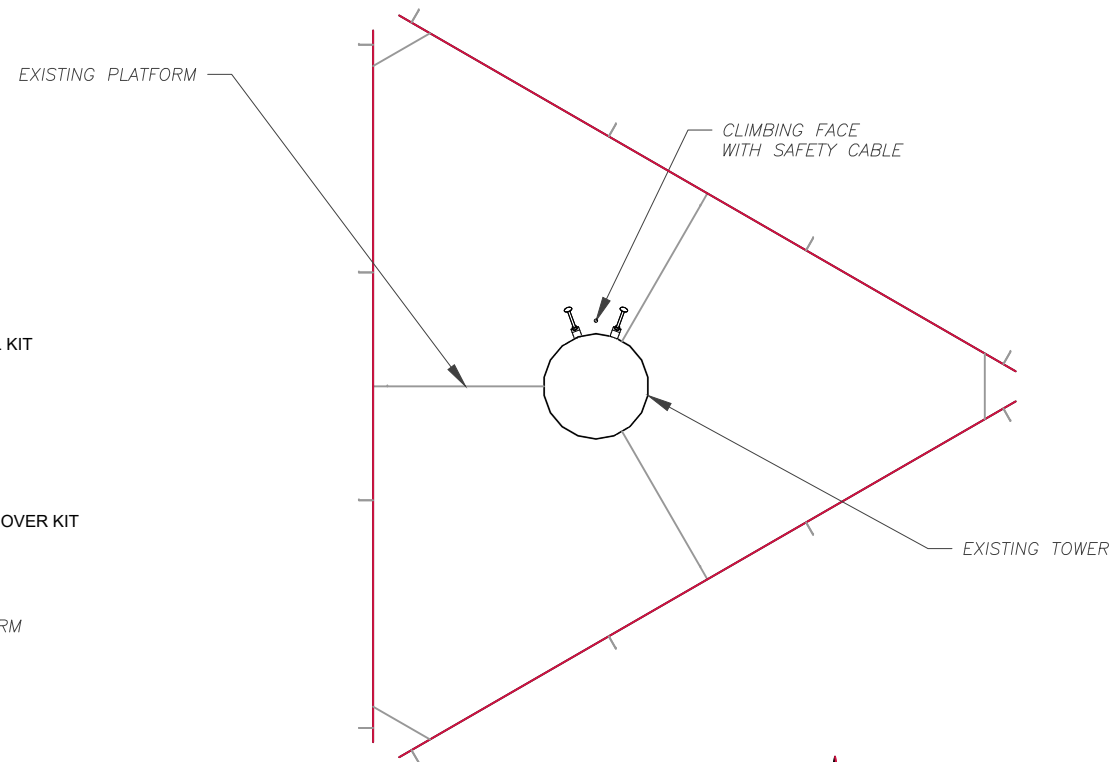
**MOUNT MODIFICATION - TOP VIEW**



**MOUNT MODIFICATION - ISOMETRIC VIEW**



**MOUNT MODIFICATION - FRONT VIEW**



**SAFETY CLIMB LOCATION**



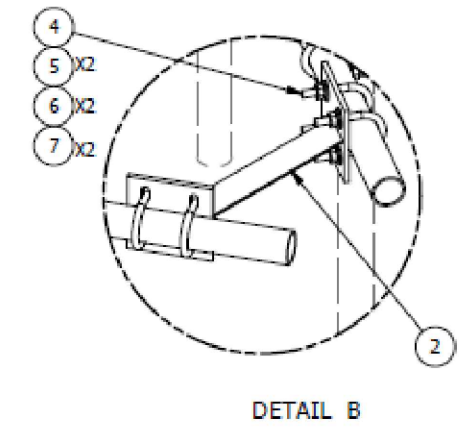
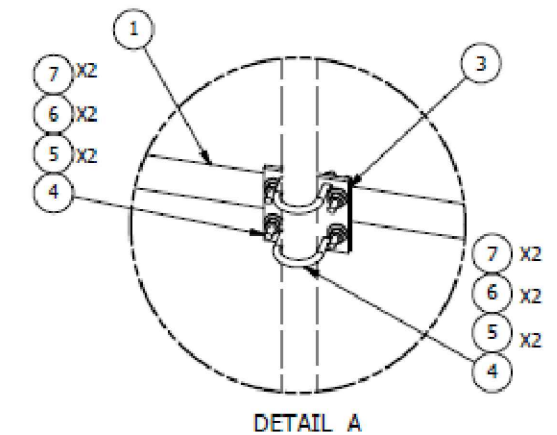
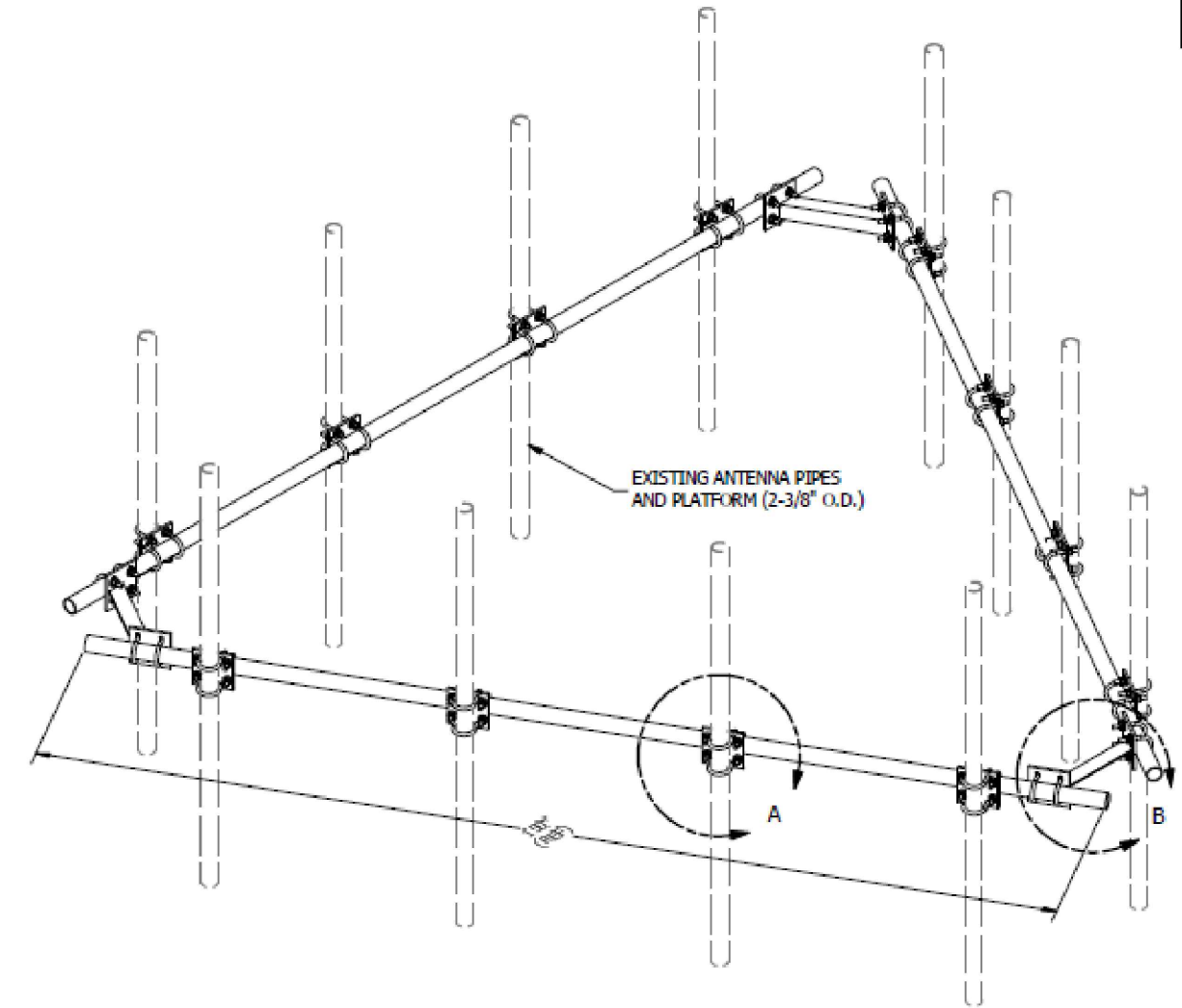
**NOTE:**  
 CONTRACTOR TO INSTALL MOUNT MODIFICATIONS PER THE MANUFACTURER'S SPECIFICATION. MODIFICATIONS SHALL NOT OBSTRUCT, INTERFERE, OR BLOCK EXISTING SAFETY CLIMB SYSTEM. IF ANY OF THESE OCCURS DURING INSTALLATION CONTACT THE AMERICAN TOWER PMI INBOX [PMI@AMERICANTOWER.COM](mailto:PMI@AMERICANTOWER.COM)

**REDLINED CDs**  
 Ramapo Communication Corp  
 3/23/2021  
 Matthew Schlosser  
*Matthew Schlosser*

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PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	3	P2150	2-3/8" O.D. X 150" SCH 40 GALVANIZED PIPE	150 in	45.77	137.31
2	3	X-AHCP	ANGLE HANDRAIL CORNER PLATE		12.92	38.76
3	12	SCX1	CROSSOVER PLATE 2-3/8" X 2-3/8"	6 in	3.71	44.50
4	60	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.63	37.51
5	120	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	4.09
6	120	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	1.67
7	120	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	8.60
TOTAL WT. #						272.43



REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
A	REPLACED HCP WITH X-AHCP		CEK	7/10/2014
REVISION HISTORY				

**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 ( $\pm 0.060$ )

PROPRIETARY NOTE:  
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DESCRIPTION	
HANDRAIL KIT FOR 12'-6" FACE	
CPD NO.	DRAWN BY
	KCB 5/30/2012
CLASS	DRAWING USAGE
81	CUSTOMER
SUB	CHECKED BY
01	BMC 7/13/2014

**SITE PRO 1**  
 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. **HRK12**

DWG. NO. **HRK12**

PAGE  
1 OF 1

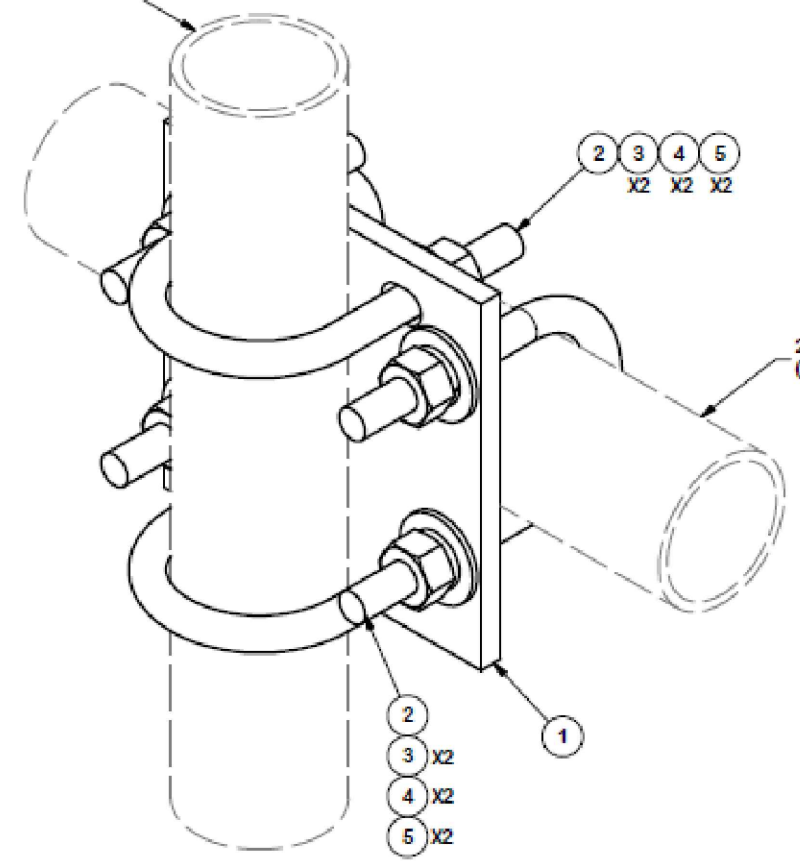
NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED WITHOUT EDIT. PLEASE REFERENCE THE MOUNT ANALYSIS CALCULATIONS AND DETAILS. SUPPLEMENTAL CONSTRUCTION DRAWINGS ARE FOR REFERENCE ONLY. VERIFY THEY HAVE THE MOST RECENT MOUNT ANALYSIS.

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 Ramapo Communication Corp  
 3/23/2021  
 Matthew Schlosser  
 Matthew Schlosser

SUPPLEMENTAL	
SHEET NUMBER: <b>R-601</b>	REVISION: <b>0</b>

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	SCX1	CROSSOVER PLATE 2-3/8" X 2-3/8"		3.71	3.71
2	4	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.63	2.50
3	8	G12FW	1/2" HDG USS FLATWASHER		0.03	0.27
4	8	G12LW	1/2" HDG LOCKWASHER		0.01	0.11
5	8	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	0.57
					<b>TOTAL WT. #</b>	<b>7.16</b>

2-3/8" O.D. ANTENNA PIPE  
(ORDERED SEPARATELY)



2-3/8" O.D. PIPE  
(ORDERED SEPARATELY)

**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 ( $\pm 0.060$ )

DESCRIPTION  
**CROSSOVER PLATE**

**SITE PRO 1**  
 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

REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
A	ADDED MISSING U-BOLT AND HRDWE		KC8	7/5/2012

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CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.
	CEK 6/30/2011		SCX1-K
CLASS	DRAWING USAGE	CHECKED BY	DWG. NO.
81	CUSTOMER	CEK 8/23/2012	SCX1-K

1 OF 1  
 MADE

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 Matthew Schlosser  
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SHEET NUMBER: <b>R-602</b>	REVISION: <b>0</b>