

EM-CING-101-201005

From: Daniel Hatab <daniel.hatab@ramapocom.com>
Sent: Friday, April 2, 2021 10:35 AM
To: CSC-DL Siting Council <Siting.Council@ct.gov>
Subject: AT&T Site CTL02012

Good Morning,

The site below has been completed on 3/05, we have CSC exempt letter, attached for reference, but CCA letter was received and attached as well.

AT&T Site: CTL02012
Address: 15 DEWIGHT STREET, NORTH HAVEN, CT 06473

Thank You,

Daniel Hatab

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

Jurisdiction: Town of North Haven, CT
Building Permit: B-20-1207
Subject: Special Inspection Letter – Final Certification
ATC Site: North Haven Ct 1 – 302482
AT&T site: CTL02012 – FA:10034972
Site Address: 15 Dwight Street
North Haven, Ct. 06473-1198
AT&T Scope of work: Antenna Amendment Drawings
SMW Engineering Project: 20-10277.1

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 (3) existing Powerwave 7770 antennas – (1) per sector
- Relocate of (3) existing CCI OPA-65R-LCUU-H6 antennas – (1) per sector
- Removal of (3) existing RRUS-11 B12 - (1) per sector
- Removal of (3) existing RRUS-12 B2 - (1) per sector
- Installation of Handrail Reinforcement Kit – Site pro 1 P/N HSRK-35 – Typ. each sector
- Installation of (3) new CCI DMP65R-BU6DA antennas – (1) per sector

- Installation of (3) RRUS 4449 B5/B12 - (1) per sector
- Installation of (3) RRUS 8843 B2/B66A - (1) per sector
- Installation of (1) DC6-48-60-18-8F- squid

Discrepancies from Permitted Drawings:

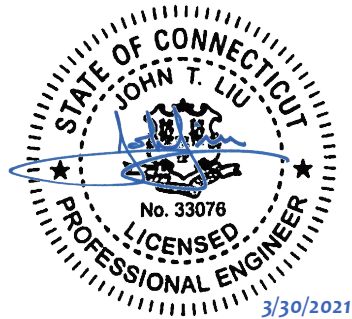
- None

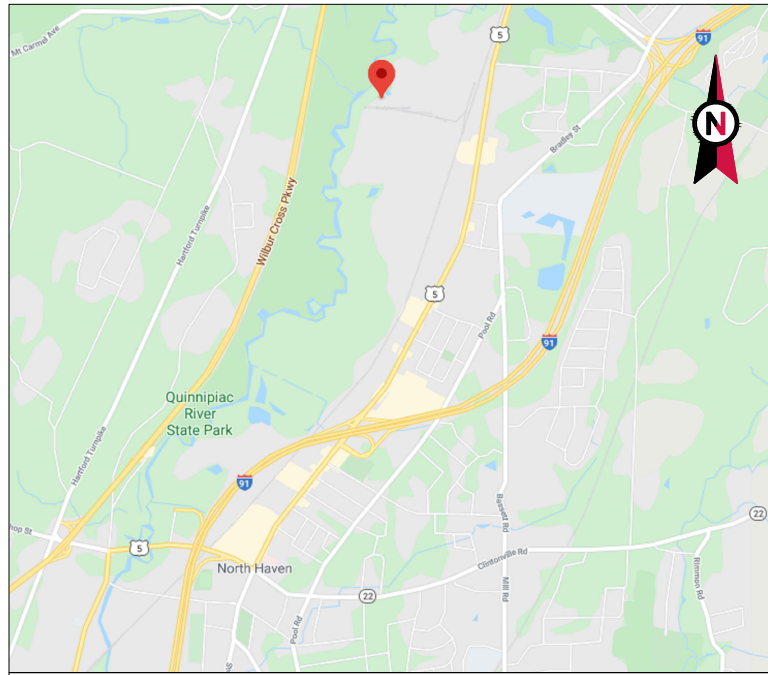
To the best of our knowledge, belief, and professional judgment, the connections of the installed equipment were performed **in substantial compliance** with the approved construction drawings prepared by SMW Engineering Group, Inc. dated 09-22-20 Rev. 1.

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





VICINITY MAP

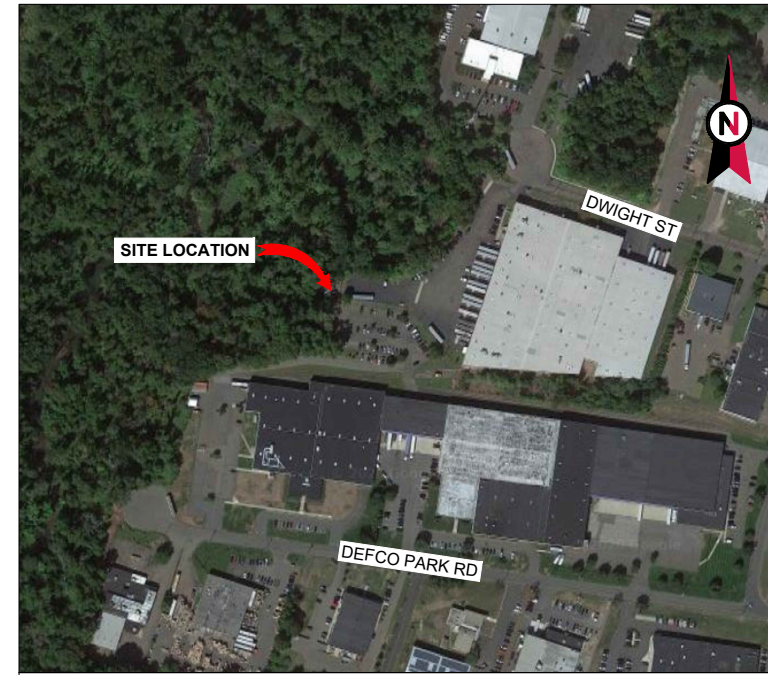
CURRENT PROJECTS:

5C - PACE #: MRCTB046848
 4TX4RX - PACE #: MRCTB046681
 4TX4RX - PACE #: MRCTB046511
 5G NR - PACE #: MRCTB046791



AMERICAN TOWER®

ATC SITE NAME: NORTH HAVEN CT 1
 ATC SITE NUMBER: 302482
 AT&T SITE ID: CTL02012
 AT&T FA CODE: 10034972
 AT&T SITE NAME: NORTH HAVEN-DWIGHT ST
 SITE ADDRESS: 15 DEWIGHT STREET
 NORTH HAVEN, CT 06473-1198



LOCATION MAP

**AT&T MOBILITY
 ANTENNA AMENDMENT PLAN**

COMPLIANCE CODE	PROJECT SUMMARY	PROJECT DESCRIPTION	SHEET INDEX				
<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. INTERNATIONAL BUILDING CODE (IBC) 2. NATIONAL ELECTRIC CODE (NEC) 3. LOCAL BUILDING CODE 4. CITY/COUNTY ORDINANCES</p>	<p><u>SITE ADDRESS:</u> 15 DEWIGHT STREET NORTH HAVEN, CT 06473-1198 COUNTY: NEW HAVEN</p> <p><u>GEOGRAPHIC COORDINATES:</u> LATITUDE: 41.42080556 LONGITUDE: -72.8488 GROUND ELEVATION: 26' AMSL</p>	<p>THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW: <u>TOWER WORK:</u> REMOVE (3) UMTS ANTENNAS, (6) LTE RRH'S, AND (2) 0.51" HYBRID CABLES INSTALL (3) LTE ANTENNAS, (9) LTE RRH'S, (1) DC6 SQUID, (2) 0.78" 8AWG6 DC TRUNKS, (2) 0.39" FIBER CABLES, AND MOUNT MODIFICATIONS EXISTING (6) LTE ANTENNAS, (3) LTE RRH'S, (12) DPLEXERS, (6) TMA'S, (2) DC6 SQUIDS, (4) 0.78" 8AWG6 DC TRUNKS, AND (12) 1-1/4" COAX CABLES TO REMAIN <u>GROUND WORK:</u> INSTALL (1) 6630 AND (1) IDLE EXISTING (2) RRUS-4478 B14 TO REMAIN</p>	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
	<p><u>PROJECT TEAM</u></p> <p><u>TOWER OWNER:</u> AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801</p> <p><u>ENGINEER:</u> JEREMY SHARIT jsharit@smweng.com SMW ENGINEERING GROUP INC. 158 BUSINESS CENTER DR. BIRMINGHAM, AL. 35244 JOB# 20-10277</p> <p><u>PROPERTY OWNER:</u> 15 DWIGHT ST LLC C/O NEIL F CARRANO 11 SAGAMORE TERRACE S. WESTBROOK, CT 06498</p>	<p><u>PROJECT NOTES</u></p> <ol style="list-style-type: none"> THE FACILITY IS UNMANNED. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED. HANDICAP ACCESS IS NOT REQUIRED. 	<p>G-001 COVER SHEET</p> <p>G-002 GENERAL NOTES</p> <p>C-101 DETAILED SITE PLAN</p> <p>C-201 TOWER ELEVATION</p> <p>C-401 RF SCHEDULE AND ANTENNA INSTALLATION</p> <p>C-501 CONSTRUCTION DETAILS</p> <p>C-502 EQUIPMENT SPECIFICATIONS</p> <p>E-501 GROUNDING DETAILS</p> <p>R-601 SUPPLEMENTAL</p> <p>R-602 SUPPLEMENTAL</p> <p>-- MOUNT MODIFICATIONS</p>				
<p><u>UTILITY COMPANIES</u></p> <p>POWER COMPANY: UNITED ILLUMINATING PHONE: (800) 722-5584</p> <p>TELEPHONE COMPANY: FRONTIER COMMUNICATIONS PHONE: (800) 376-6843</p>	<p><u>APPLICANT:</u> AT&T MOBILITY</p> <p><u>CONSULTING ENGINEER</u> JOHN LIU, PE (423) 541-0561 JOHNLIU@TELECOM.TEAM</p>	<p><u>PROJECT LOCATION DIRECTIONS</u></p> <p>I-91 TO EXIT 13 TO RT 5 SOUTH. TURN RIGHT ONTO DEFCO PARK ROAD. TAKE FIRST RIGHT ONTO DODGE THEN LEFT ONTO DWIGHT. GO TO END OF STREET AND TURN LEFT INTO GATED PARKING LOT. TOWER IS IN BACK TO THE RIGHT.</p>					

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 2/5/2021
 Matthew Schlosser
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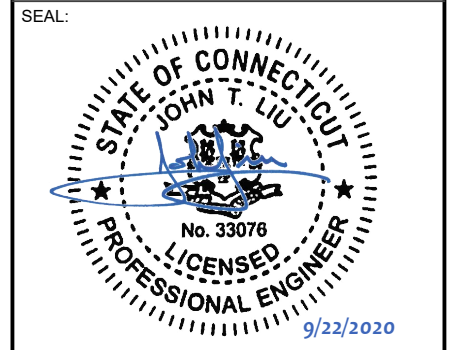
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 158 BUSINESS CENTER DRIVE
 BIRMINGHAM, AL 35244
 TEL: 205-252-6985 FAX: 205-320-1504

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

ATC SITE NUMBER:
302482
 ATC SITE NAME:
NORTH HAVEN CT 1
 AT&T MOBILITY SITE NAME:
NORTH HAVEN-DWIGHT ST
 SITE ADDRESS:
 15 DEWIGHT STREET
 NORTH HAVEN, CT 06473-1198



AT&T

DATE DRAWN: 06/24/20
 ATC JOB NO: 13242626_G3
 CUSTOMER ID: NORTH HAVEN-DWIGHT ST
 CUSTOMER #: 10034972

TITLE SHEET

SHEET NUMBER:
G-001

REVISION:
1



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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)

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.

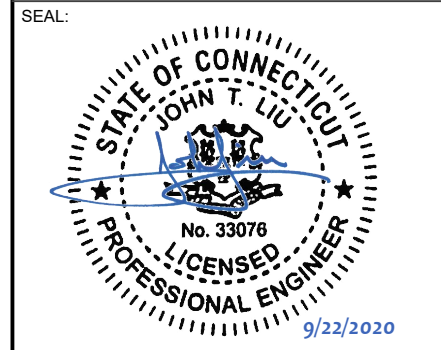
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 BIRMINGHAM, AL 35244
 TEL: 205-252-6985 FAX: 205-320-1504

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

ATC SITE NUMBER:
302482
 ATC SITE NAME:
NORTH HAVEN CT 1
 AT&T MOBILITY SITE NAME:
NORTH HAVEN-DWIGHT ST
 SITE ADDRESS:
 15 DEWIGHT STREET
 NORTH HAVEN, CT 06473-1198



DATE DRAWN:	06/24/20
ATC JOB NO:	13242626_G3
CUSTOMER ID:	NORTH HAVEN-DWIGHT ST
CUSTOMER #:	10034972

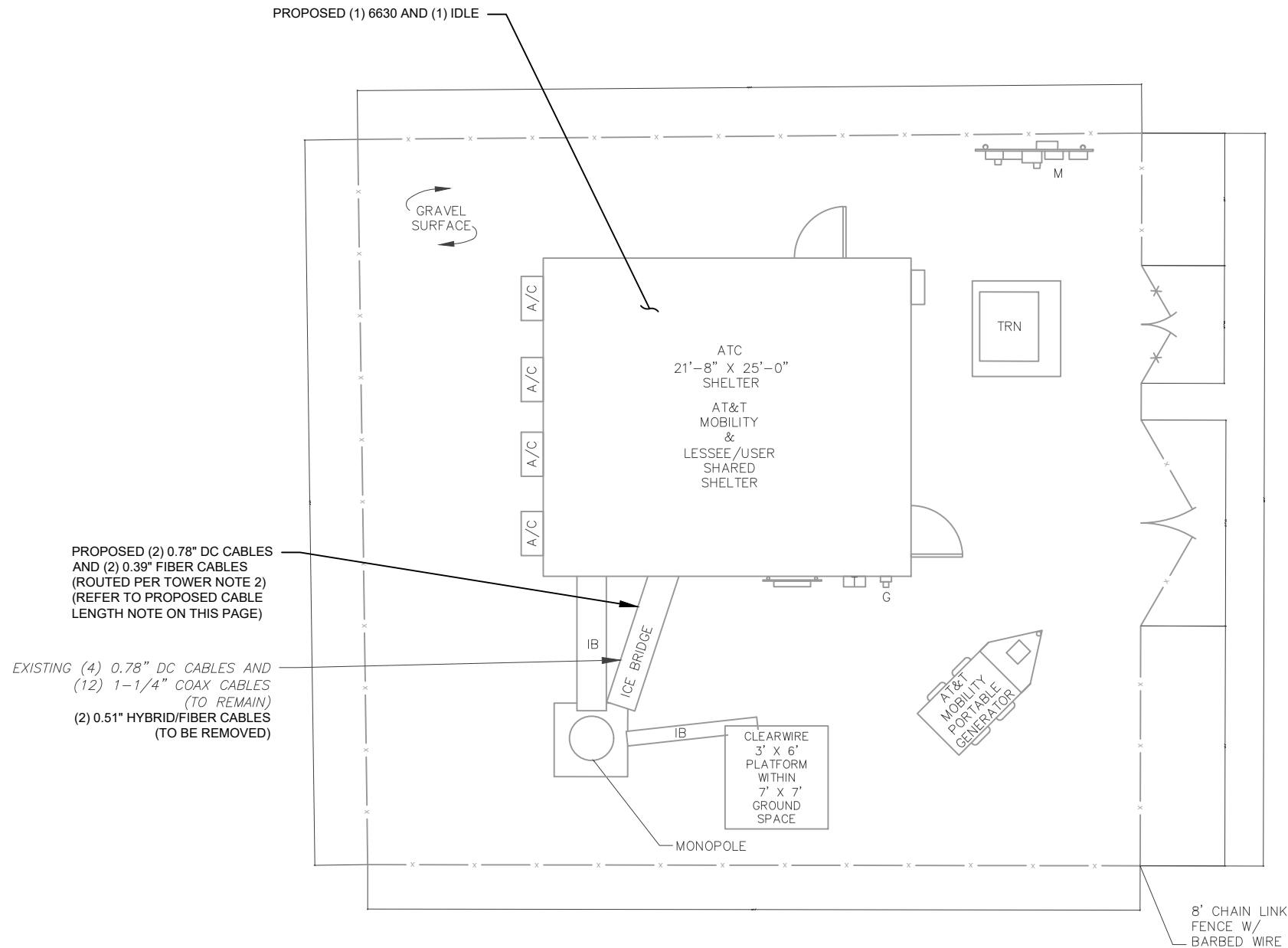
GENERAL NOTES	
SHEET NUMBER: G-002	REVISION: 1

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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 (2) 0.78" DC CABLES AND (2) 0.39" FIBER CABLES (ROUTED PER TOWER NOTE 2) (REFER TO PROPOSED CABLE LENGTH NOTE ON THIS PAGE)

EXISTING (4) 0.78" DC CABLES AND (12) 1-1/4" COAX CABLES (TO REMAIN) (2) 0.51" HYBRID/FIBER CABLES (TO BE REMOVED)

EXISTING (2) GROUND MOUNTED RRUS-4478 B14 TO REMAIN AND BE RE-USED



PROPOSED CABLE LENGTH:

1. ESTIMATED LENGTH OF PROPOSED CABLE IS **185'**. 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. 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.

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 2/5/2021
 Matthew Schlosser
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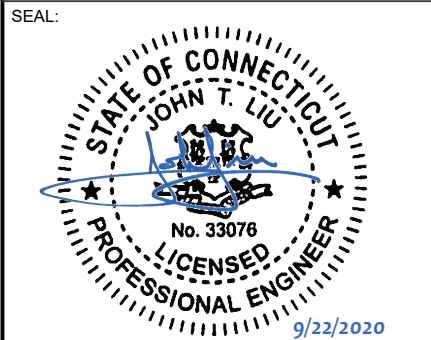
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SITE ADDRESS:
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 NORTH HAVEN, CT 06473-1198



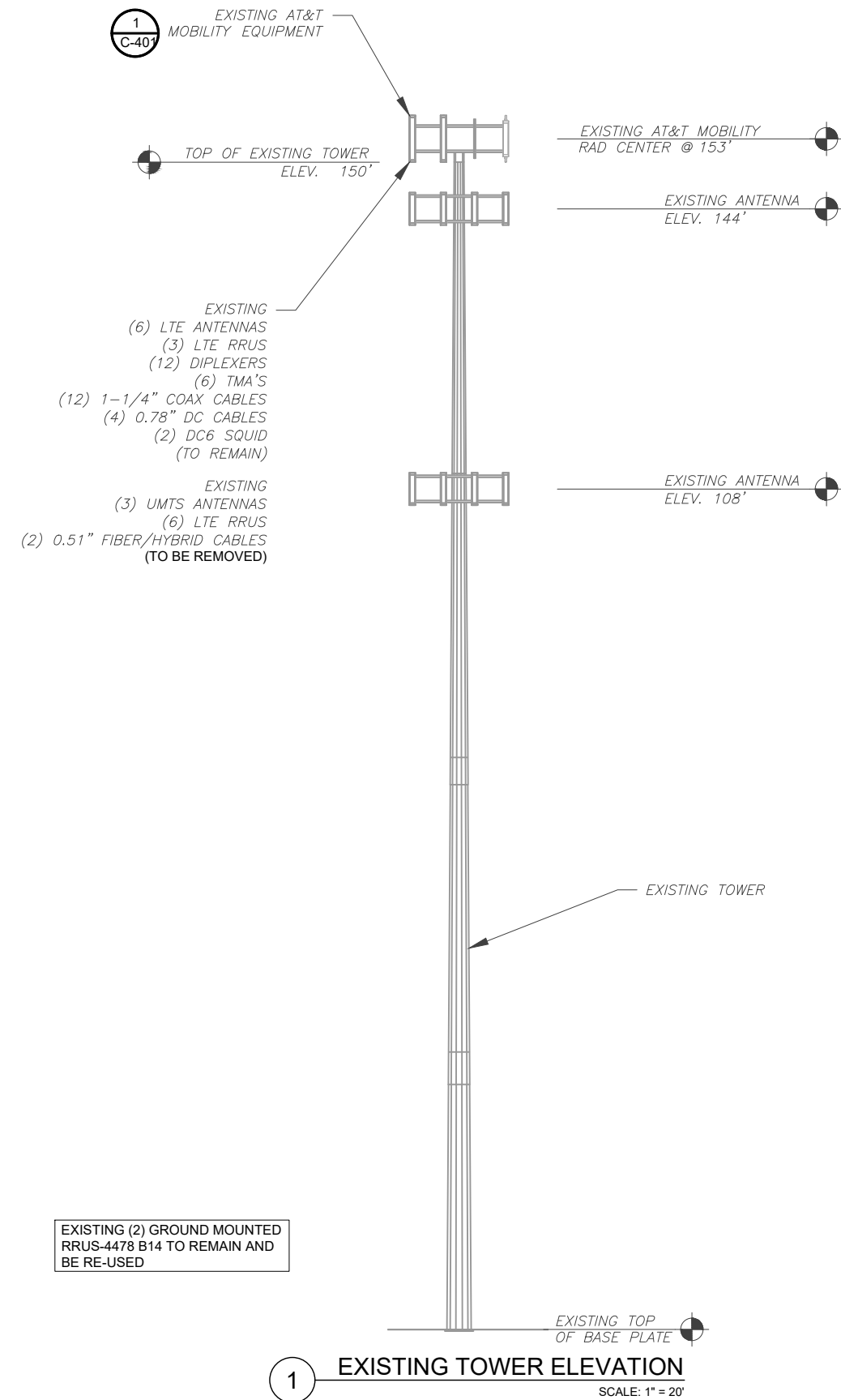
DATE DRAWN:	06/24/20
ATC JOB NO:	13242626_G3
CUSTOMER ID:	NORTH HAVEN-DWIGHT ST
CUSTOMER #:	10034972

DETAILED SITE PLAN

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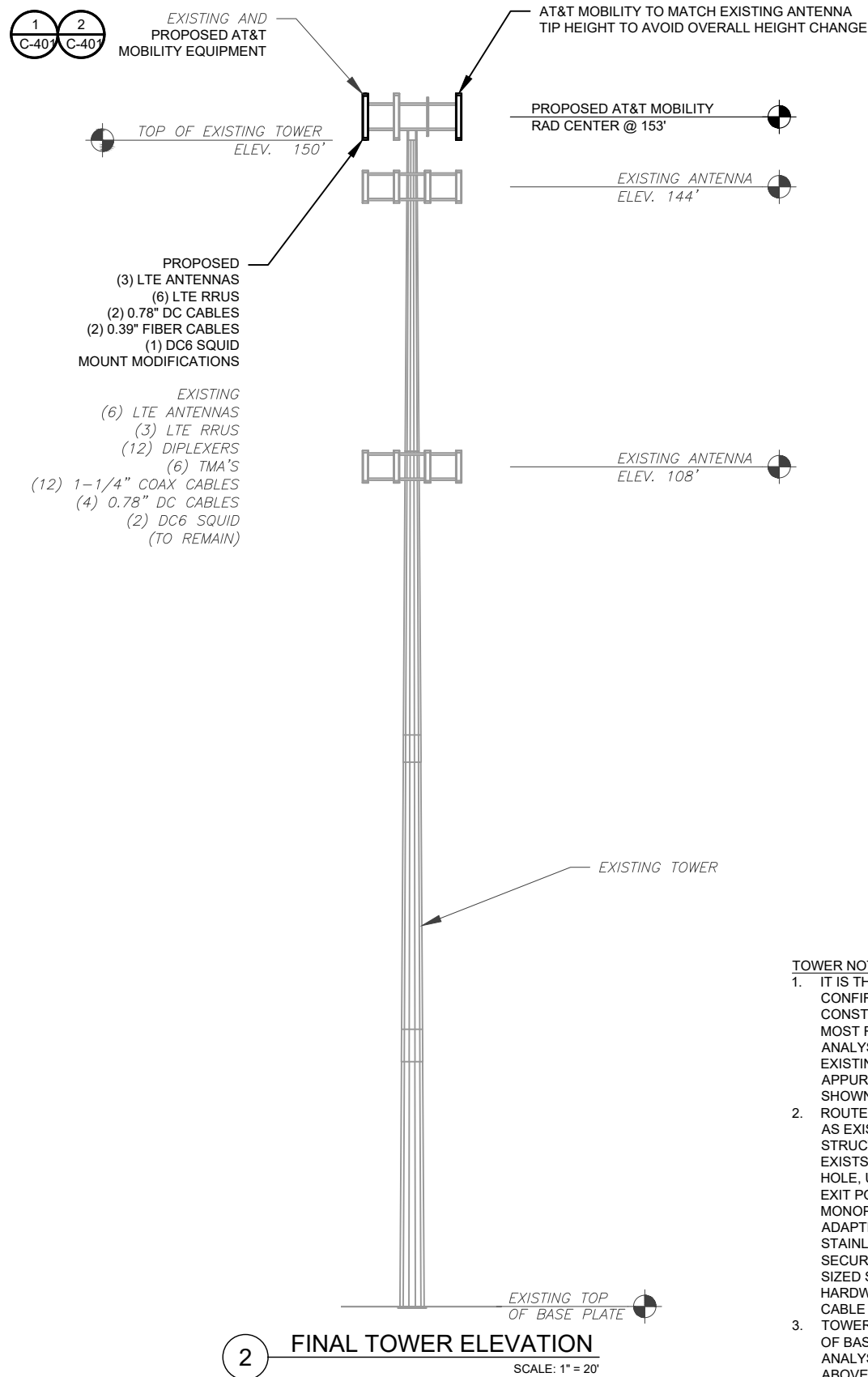
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EXISTING AND FINAL CONFIGURATIONS ARE BASED ON RFDS. CONTRACTOR TO VERIFY EXISTING CONDITIONS.



1 EXISTING TOWER ELEVATION
SCALE: 1" = 20'

PER MOUNT ANALYSIS COMPLETED BY ATC, DATED 07/01/20, 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:
 1. 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.
 2. 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 BANDING OR HARDWARE.
 3. TOWER BASE ANALYSIS ABOVE GROUND

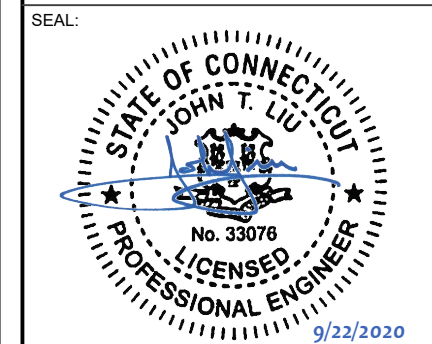
AS-BUILT CDs
 Ramapo Communicaion Corp
 2/5/2021
 Matthew Schlosser
 Matthew Schlosser



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:
302482
 ATC SITE NAME:
NORTH HAVEN CT 1
 AT&T MOBILITY SITE NAME:
NORTH HAVEN-DWIGHT ST
 SITE ADDRESS:
 15 DEWIGHT STREET
 NORTH HAVEN, CT 06473-1198



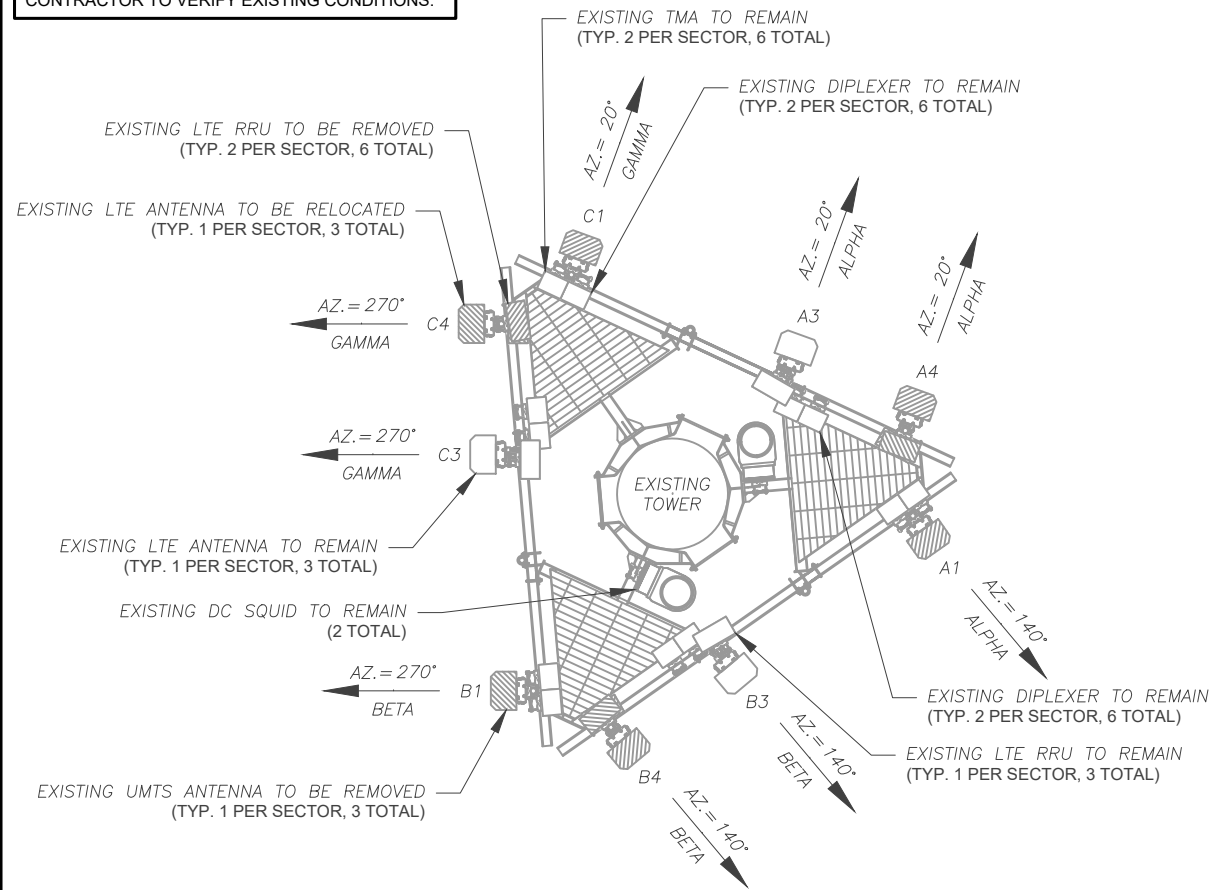
DATE DRAWN:	06/24/20
ATC JOB NO:	13242626_G3
CUSTOMER ID:	NORTH HAVEN-DWIGHT ST
CUSTOMER #:	10034972

TOWER ELEVATION

SHEET NUMBER: C-201	REVISION: 1
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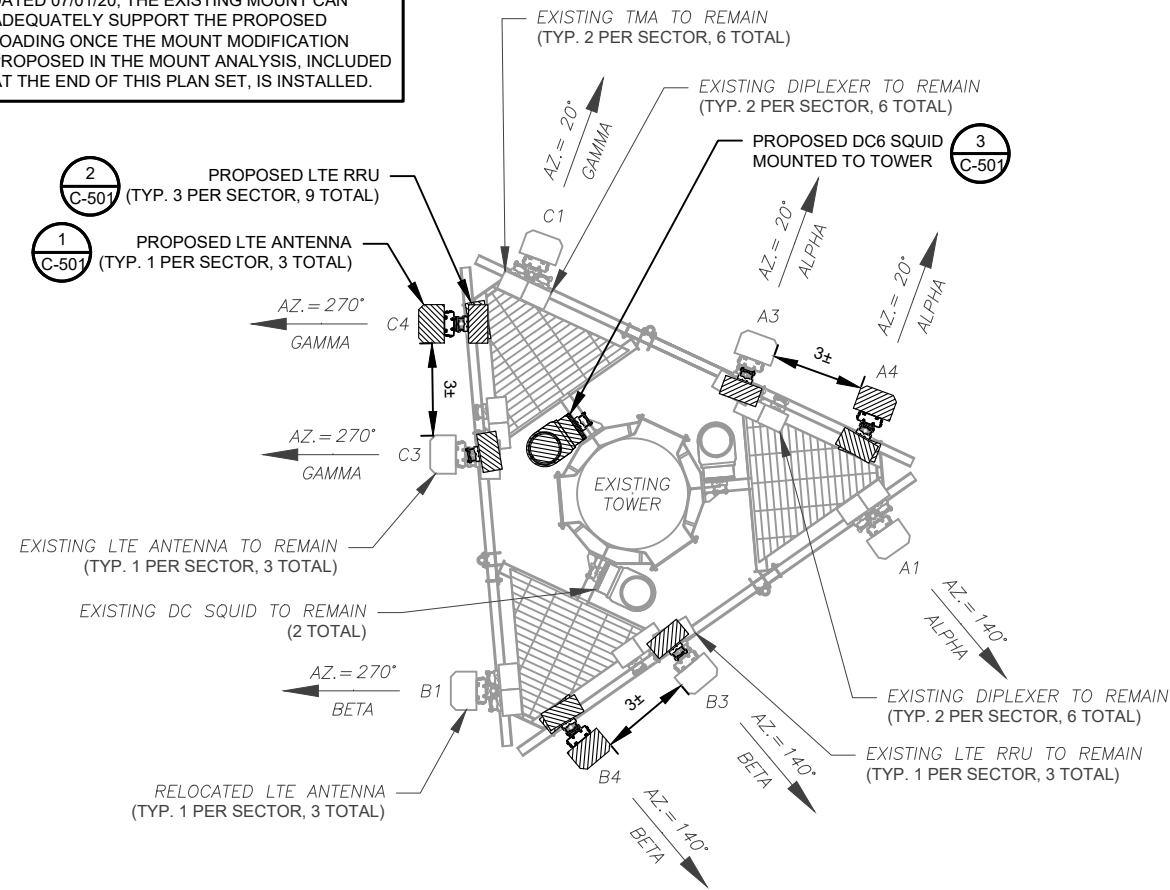
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EXISTING CONFIGURATIONS ARE BASED ON RFDS. CONTRACTOR TO VERIFY EXISTING CONDITIONS.



1 CURRENT ANTENNA PLAN
SCALE: 1" = 5'

PER MOUNT ANALYSIS COMPLETED BY ATC, DATED 07/01/20, 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 ANTENNA PLAN
SCALE: 1" = 5'

PROPOSED RRUs MUST BE INSTALLED A MINIMUM OF 8" AWAY FROM ALL ANTENNAS

EXISTING ANTENNA SCHEDULE								
LOCATION		ANTENNA SUMMARY					NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	153'	140°	A1	POWERWAVE 7770	UMTS	RMV	(2) 782-10250 DIPLEXER (2) LGP 21401 TMA	RMN
		20°	A3	QS66512-2	LTE	RMN	RRUS-32 B30 (2) DBC0061F1V51-2 DIPLEXER	RMN
		20°	A4	OPA-65R-LCUU-H6	LTE	REL	RRUS-11 B12 RRUS-12 B2	RMV
BETA	153'	270°	B1	POWERWAVE 7770	UMTS	RMV	(2) 782-10250 DIPLEXER (2) LGP 21401 TMA	RMN
		140°	B3	QS66512-2	LTE	RMN	RRUS-32 B30 (2) DBC0061F1V51-2 DIPLEXER	RMN
		140°	B4	OPA-65R-LCUU-H6	LTE	REL	RRUS-11 B12 RRUS-12 B2	RMV
GAMMA	153'	20°	C1	POWERWAVE 7770	UMTS	RMV	(2) 782-10250 DIPLEXER (2) LGP 21401 TMA	RMN
		270°	C3	QS66512-2	LTE	RMN	RRUS-32 B30 (2) DBC0061F1V51-2 DIPLEXER	RMN
		270°	C4	OPA-65R-LCUU-H6	LTE	REL	RRUS-11 B12 RRUS-12 B2	RMV

- NOTES
- CONFIRM WITH AT&T MOBILITY REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG). GC TO CAP ALL UNUSED PORTS.
 - CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.
 - THE ANTENNA ORIENTATION PLAN IS A SCHEMATIC. ATC DID NOT CONFIRM EXISTING SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO, ANTENNA AZIMUTHS, MOUNT CONFIGURATIONS AND TOWER ORIENTATION. SCALES SHOWN ARE FOR REFERENCE ONLY AND EXISTING DIMENSIONS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO INSTALLATION AND NOTIFY ATC OF ANY DISCREPANCIES. CONTRACTOR TO ENSURE PROPER SEPARATION IN ACCORDANCE WITH AT&T'S FIRSTNET REQUIREMENTS (SEE SHEET R-602)
 - CONTRACTOR TO ENSURE PROPER SEPARATION IN ACCORDANCE WITH AT&T'S FIRSTNET REQUIREMENTS (SEE SHEET R-602)

CABLE LENGTHS FOR JUMPERS
JUNCTION BOX TO RRU: 15'
RRU TO ANTENNA: 10'

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

3 EQUIPMENT SCHEDULES

EXISTING FIBER DISTRIBUTION/SQUID			EXISTING CABLING SUMMARY			
MODEL NUMBER	STATUS	COAX	DC	FIBER	STATUS	
(2) DC6-48-60-18-8F	RMN	(12) 1-1/4"	(4) 0.78"	(2) 0.39"	RMN	
-	-	-	-	(2) 0.51"	RMV	

FINAL ANTENNA SCHEDULE								
LOCATION		ANTENNA SUMMARY					NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	153'	140°	A1	OPA-65R-LCUU-H6	LTE	REL	(2) 782-10250 DIPLEXER (2) LGP 21401 TMA	RMN
		20°	A3	QS66512-2	LTE	RMN	RRUS-4478 B14 RRUS-32 B30 (2) DBC0061F1V51-2 DIPLEXER	ADD RMN RMN
		20°	A4	DMP65R-BU6DA	LTE	ADD	RRUS-4449 B5/B12 RRUS-8843 B2/B66A	ADD ADD
		270°	B1	OPA-65R-LCUU-H6	LTE	REL	(2) 782-10250 DIPLEXER (2) LGP 21401 TMA	RMN RMN
BETA	153'	140°	B3	QS66512-2	LTE	RMN	RRUS-4478 B14 RRUS-32 B30 (2) DBC0061F1V51-2 DIPLEXER	ADD RMN RMN
		140°	B4	DMP65R-BU6DA	LTE	ADD	RRUS-4449 B5/B12 RRUS-8843 B2/B66A	ADD ADD
		20°	C1	OPA-65R-LCUU-H6	LTE	REL	(2) 782-10250 DIPLEXER (2) LGP 21401 TMA	RMN RMN
		270°	C3	QS66512-2	LTE	RMN	RRUS-4478 B14 RRUS-32 B30 (2) DBC0061F1V51-2 DIPLEXER	ADD RMN RMN
GAMMA	153'	270°	C3	QS66512-2	LTE	RMN	RRUS-4449 B5/B12 RRUS-8843 B2/B66A	ADD ADD
		270°	C4	DMP65R-BU6DA	LTE	ADD	RRUS-4449 B5/B12 RRUS-8843 B2/B66A	ADD ADD

FINAL FIBER DISTRIBUTION/SQUID			FINAL	
MODEL NUMBER	STATUS	COAX	FIBER	STATUS
(2) DC6-48-60-18-8F	RMN	(12) 1-1/4"	-	RMN
DC6-48-60-18-8F	ADD	-	-	ADD

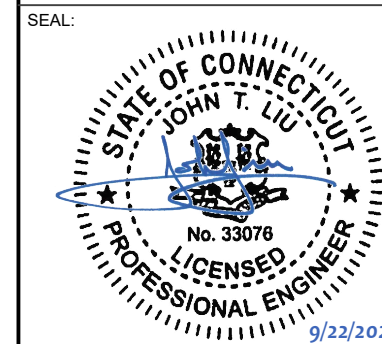
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2/5/2021
Matthew Schlosser
Matthew Schlosser



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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:
302482
ATC SITE NAME:
NORTH HAVEN CT 1
AT&T MOBILITY SITE NAME:
NORTH HAVEN-DWIGHT ST
SITE ADDRESS:
15 DEWIGHT STREET
NORTH HAVEN, CT 06473-1198



DATE DRAWN:	06/24/20
ATC JOB NO:	13242626_G3
CUSTOMER ID:	NORTH HAVEN-DWIGHT ST
CUSTOMER #:	10034972

RF SCHEDULE AND ANTENNA INSTALLATION

SHEET NUMBER:
C-401
REVISION:
1

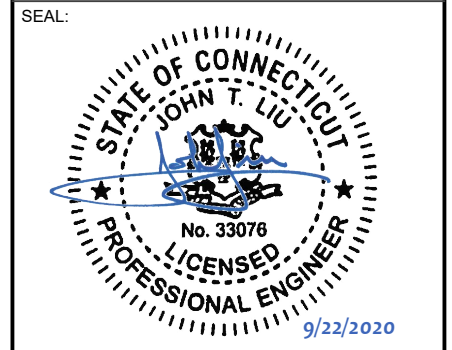


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REV.	DESCRIPTION	BY	DATE
1	FOR CONSTRUCTION	ZDS	09/22/20

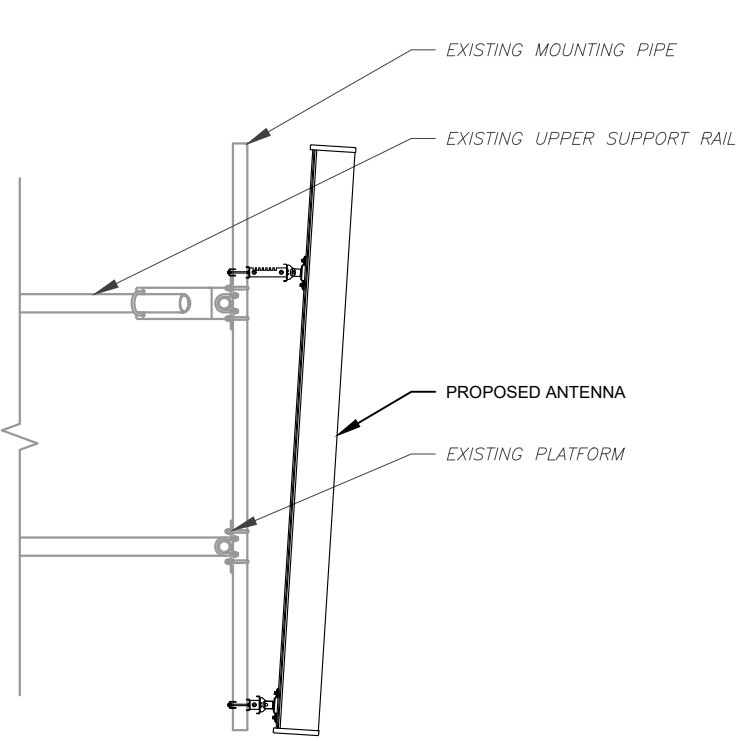
ATC SITE NUMBER:
302482
 ATC SITE NAME:
NORTH HAVEN CT 1
 AT&T MOBILITY SITE NAME:
NORTH HAVEN-DWIGHT ST
 SITE ADDRESS:
 15 DEWIGHT STREET
 NORTH HAVEN, CT 06473-1198



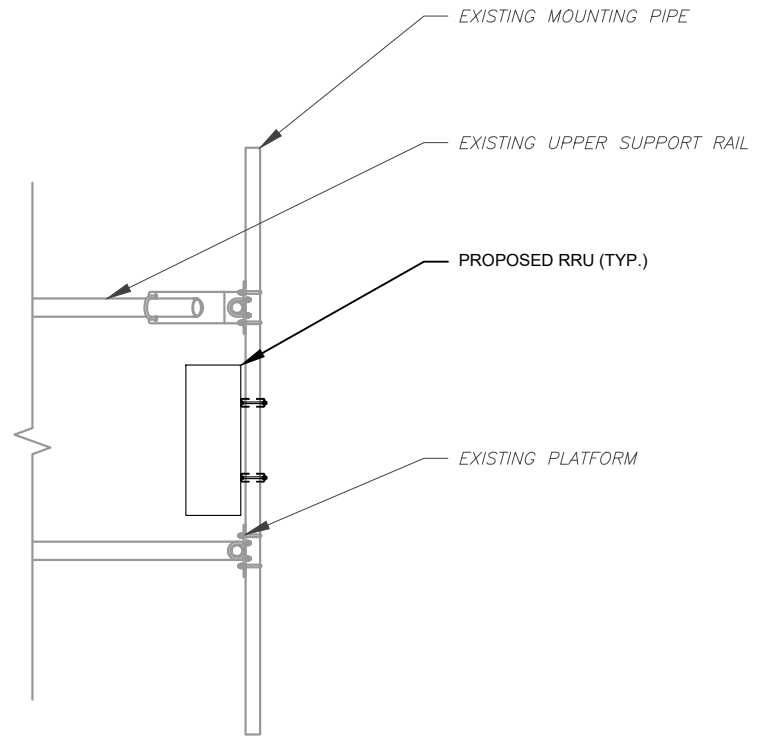
DATE DRAWN:	06/24/20
ATC JOB NO:	13242626_G3
CUSTOMER ID:	NORTH HAVEN-DWIGHT ST
CUSTOMER #:	10034972

**CONSTRUCTION
 DETAILS**

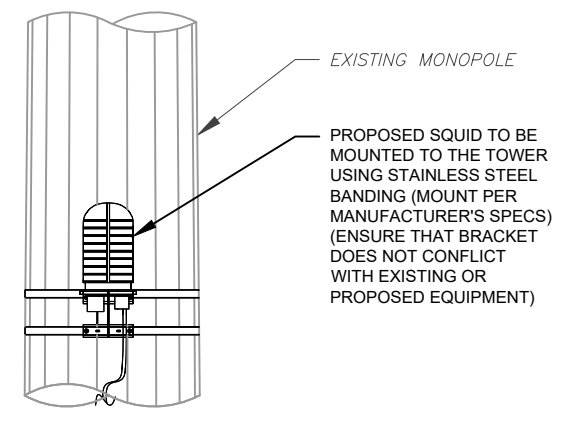
SHEET NUMBER: C-501	REVISION: 1
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1 **ANTENNA DETAIL**
 SCALE: N.T.S.

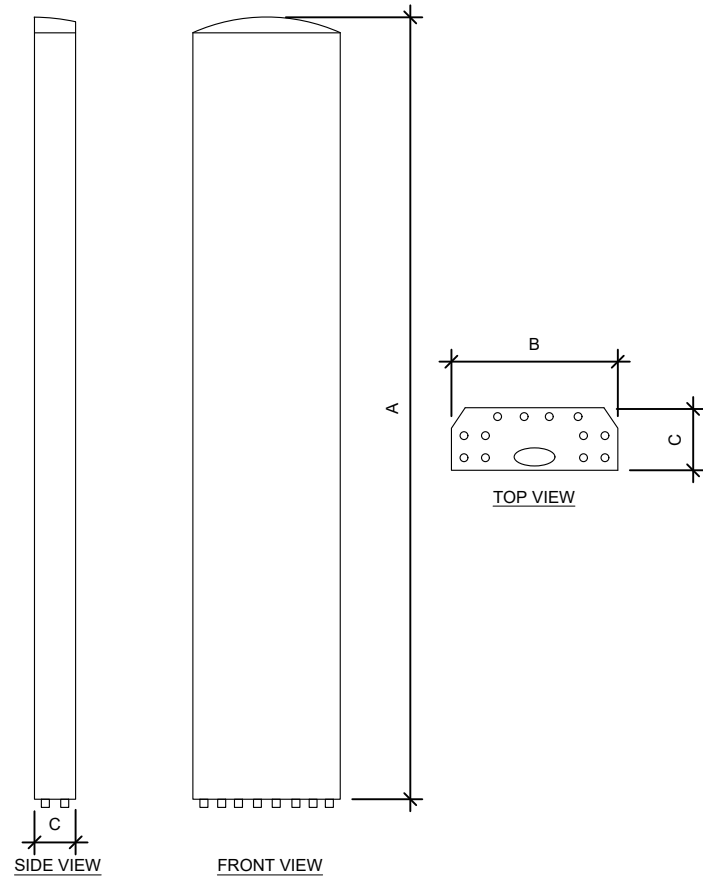


2 **RRU DETAIL**
 SCALE: N.T.S.

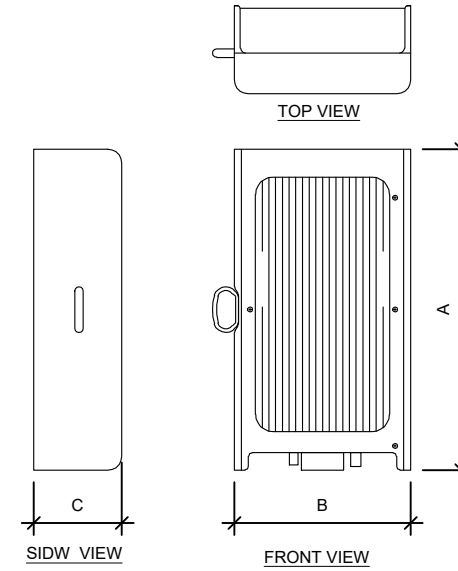


3 **PROPOSED SQUID MOUNTING**
 SCALE: N.T.S.

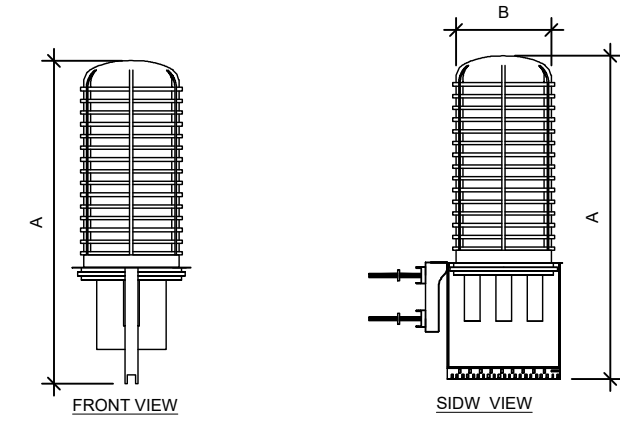
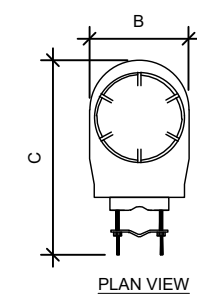
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 Matthew Schlosser
Matthew Schlosser



ANTENNA SPECIFICATIONS				
ANTENNA MODEL	A	B	C	WEIGHT (LBS)
CCI DMP65R-BU6DA	71.2"	20.7"	7.7"	79.4



RRU SPECIFICATIONS				
RRU MODEL	A	B	C	WEIGHT (LBS)
4449 B5, B12	17.9"	13.2"	9.4"	71.0
8843 B2/B66A	18.0"	13.2"	11.3"	75.0



RAYCAP SPECIFICATIONS				
RAYCAP MODEL	A	B	C	WEIGHT (LBS)
DC6-48-60-18-8F	31.41"	10.24"	18.28"	16.0

1 EQUIPMENT SPECIFICATIONS
SCALE: N.T.S.

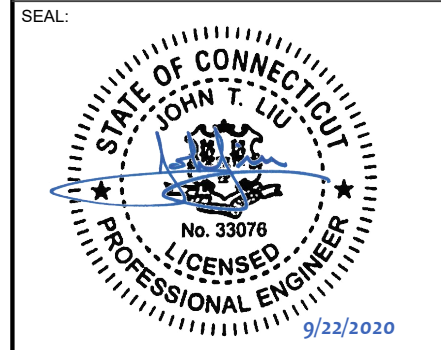
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SMW
ENGINEERING GROUP, INC.
TOGETHER PLANNING A BETTER TOMORROW
158 BUSINESS CENTER DRIVE
BIRMINGHAM, AL 35244
TEL: 205-252-6985 FAX: 205-320-1504

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

ATC SITE NUMBER:
302482
ATC SITE NAME:
NORTH HAVEN CT 1
AT&T MOBILITY SITE NAME:
NORTH HAVEN-DWIGHT ST
SITE ADDRESS:
15 DEWIGHT STREET
NORTH HAVEN, CT 06473-1198

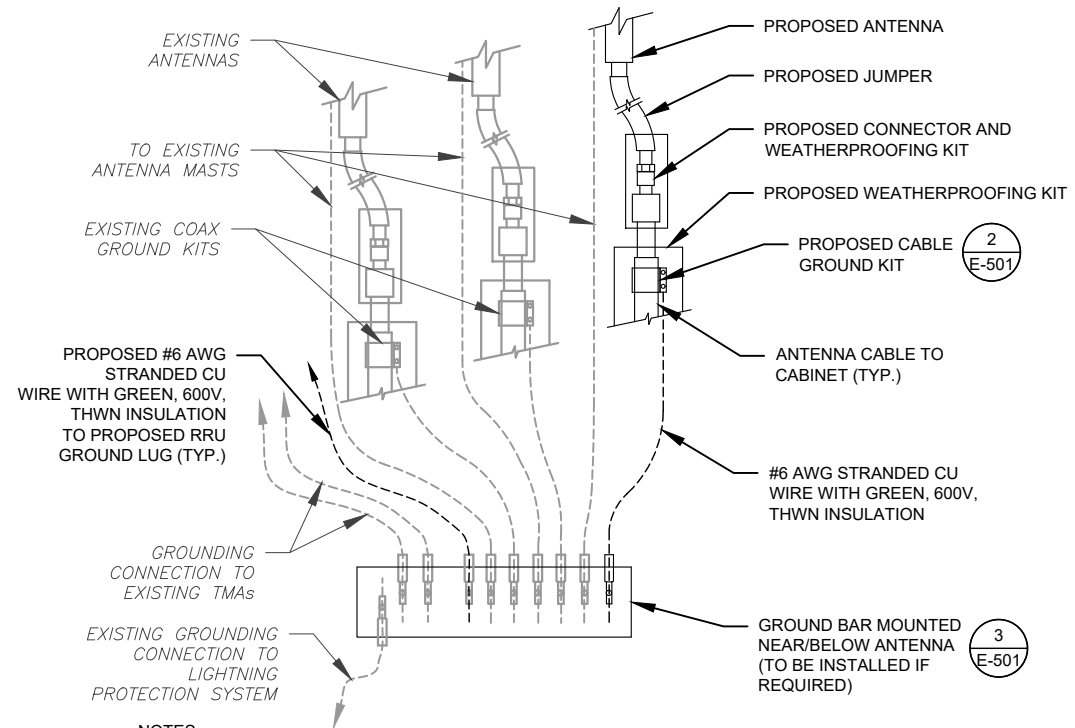


DATE DRAWN:	06/24/20
ATC JOB NO:	13242626_G3
CUSTOMER ID:	NORTH HAVEN-DWIGHT ST
CUSTOMER #:	10034972

EQUIPMENT SPECIFICATIONS

SHEET NUMBER:	REVISION:
C-502	1

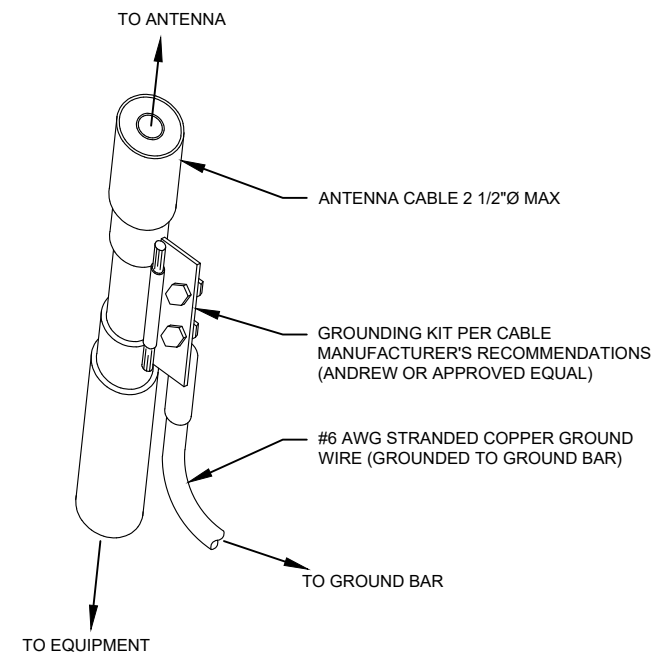
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NOTES:

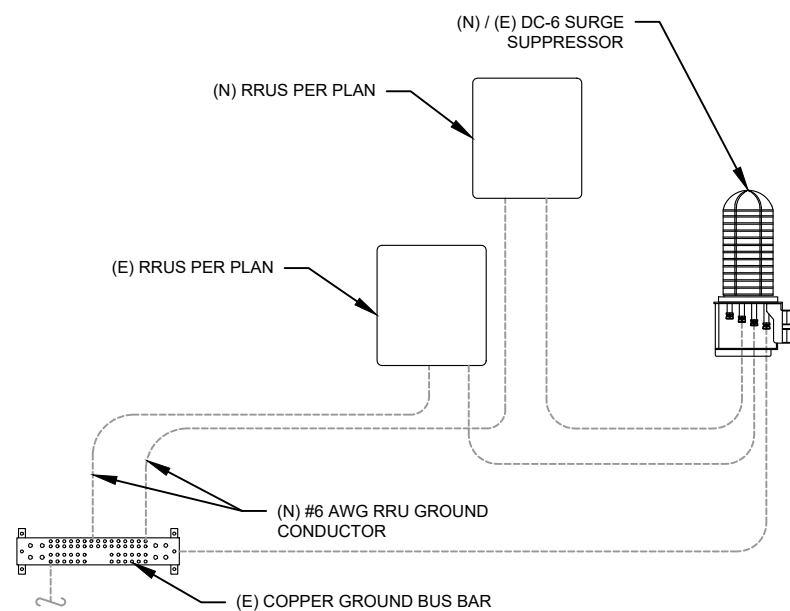
1. THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
2. SITE GROUNDING SHALL COMPLY WITH AT&T MOBILITY GROUNDING 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.

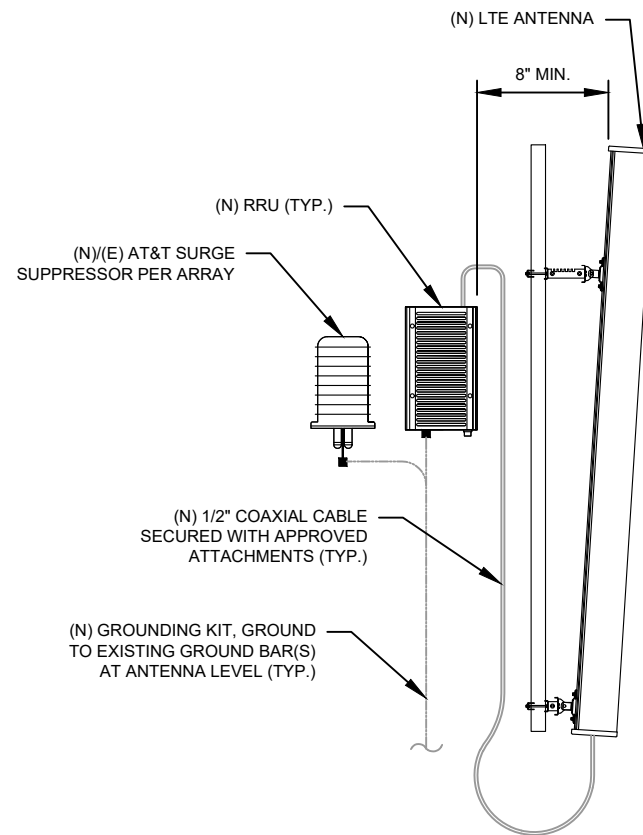


- GROUND KIT NOTES:**
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
 2. CONTRACTOR SHALL PROVIDE WEATHERPROOFING KIT (ANDREW PART NUMBER 221213) AND INSTALL/TAPE PER MANUFACTURER'S SPECIFICATIONS.

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.

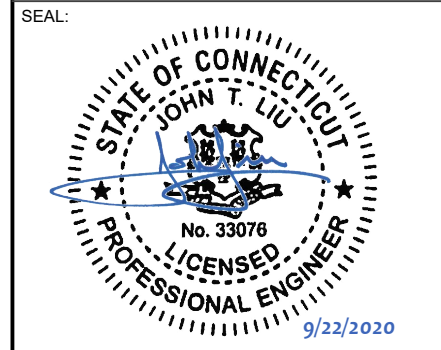
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REV.	DESCRIPTION	BY	DATE
1	FOR CONSTRUCTION	ZDS	09/22/20

ATC SITE NUMBER:
302482
ATC SITE NAME:
NORTH HAVEN CT 1
AT&T MOBILITY SITE NAME:
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SITE ADDRESS:
15 DEWIGHT STREET
NORTH HAVEN, CT 06473-1198

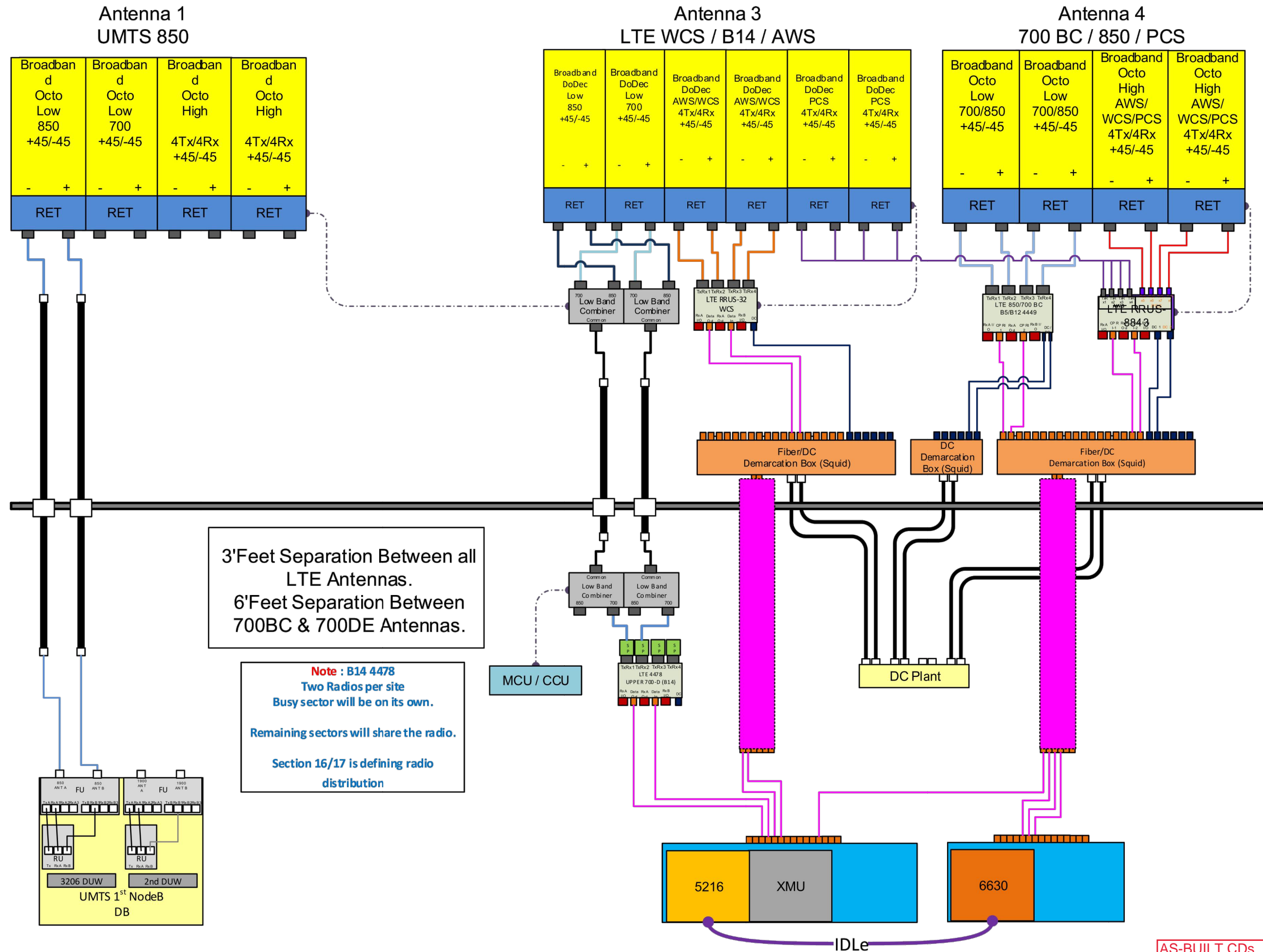


DATE DRAWN:	06/24/20
ATC JOB NO:	13242626_G3
CUSTOMER ID:	NORTH HAVEN-DWIGHT ST
CUSTOMER #:	10034972

GROUNDING DETAILS

SHEET NUMBER: E-501	REVISION: 1
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NOTE: AS-BUILT CDs
Ramapo Communication Corp
2/5/2021
Matthew Schlosser



Antenna Mount Analysis Report

ATC Site Name : North Haven CT 1, CT
ATC Site Number : 302482
Engineering Number : 13242626_C9_04
Mount Elevation : 152 ft
Carrier : AT&T Mobility
Carrier Site Name : MRCTB046848
Carrier Site Number : CTL02012
Site Location : 15 Dewight Street
 North Haven, CT 06473-1198
 41.42080556 , -72.8488
County : New Haven
Date : July 1, 2020
Max Usage : 80%
Result : Contingent Pass

Prepared By:
 Trevor Ridilla
 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 152 ft.

Supporting Documents

Radio Frequency Data Sheet	RFDS ID #CTL02012, dated March 27, 2020
Reference Photos	Site photos from 2019
Other Document	Dewberry Engineers Project #50096232, dated March 9, 2018

Analysis

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

Basic Wind Speed:	120 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:	B
Risk Category:	II
Topographic Factor Procedure:	Method 1
Topographic Category:	1
Spectral Response:	S _s = 0.204, S ₁ = 0.054
Site Class:	D - Stiff Soil
Live Loads: *	L _m = 500 lbs

* Based on experience it has been determined that the maintenance load cases do not control over rigging load cases in platform mount analyses. Therefore, these load cases have been excluded from this analysis.

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:

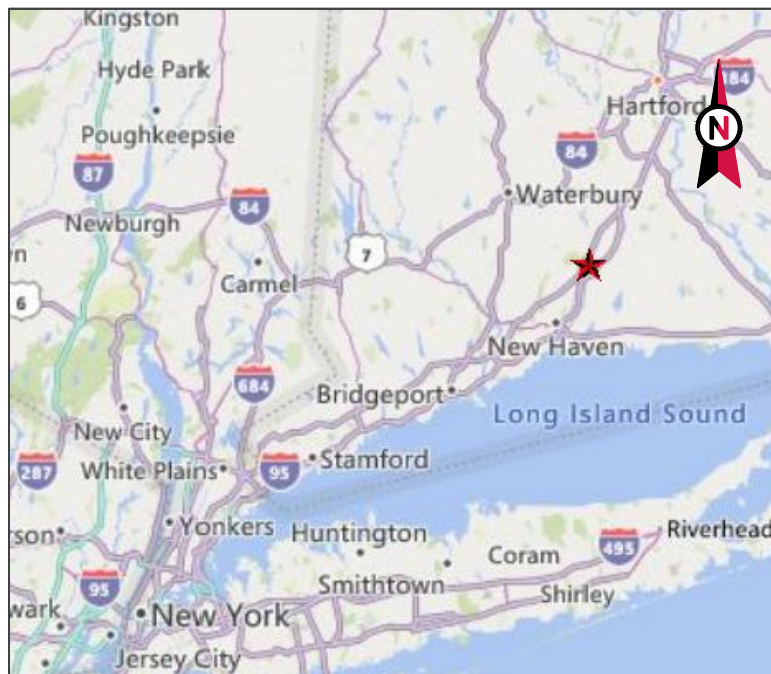
- Install modification per ATC Drawing #13242626_C9_04

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

SUPPLEMENTAL

SHEET NUMBER: R-602
 REVISION: -

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 2/5/2021
 Matthew Schlosser
 Matthew Schlosser



VICINITY MAP



AMERICAN TOWER®

SITE NAME: NORTH HAVEN CT 1
 SITE NUMBER: 302482
 ATC PROJECT NUMBER: 13242626_C9_04
 SITE ADDRESS: 15 DEWIGHT STREET
 NORTH HAVEN, CT 06473



LOCATION MAP

BIRD WATCH SITE:
 PLEASE CONTACT BIRD.WATCH@AMERICANTOWER.COM OR
 AMERICAN TOWER NOC AT 877-518-6937 FOR ASSISTANCE

**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	BJK	07/06/20

ATC SITE NUMBER:
 302482
 ATC SITE NAME:
 NORTH HAVEN CT 1
 CONNECTICUT
 SITE ADDRESS:
 15 DEWIGHT STREET
 NORTH HAVEN, CT 06473



DRAWN BY: BJK
 APPROVED BY: TCR
 DATE DRAWN: 07/06/20
 ATC JOB NO: 13242626_C9_04

COVER

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

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PROJECT TEAM	PROJECT DESCRIPTION	SHEET	SHEET TITLE	REV.
<u>TOWER OWNER</u> AMERICAN TOWER 10 PRESIDENTAL WAY WOBURN, MA 01801 <u>ENGINEERED BY</u> ATC TOWER SERVICES 3500 REGENCY PARKWAY, SUITE 100 CARY, NC 27518 <u>CARRIER INFORMATION</u> CARRIER: AT&T MOBILITY CARRIER SITE NAME: MRCTB046848 CARRIER SITE NUMBER: CTL02012	THE MODIFICATIONS PRESENTED ON THESE DRAWINGS ARE BASED ON THE RECOMMENDATIONS OUTLINED IN THE MOUNT ANALYSIS COMPLETED UNDER ENGINEERING PROJECT NUMBER 13242626_C8_01 DATED 06/18/20. 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. <u>COMPLIANCE CODE</u> ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES. 1. ANSI/TIA/EIA: STRUCTURAL STANDARDS (222-H EDITION) 2. INTERNATIONAL BUILDING CODE (2015 IBC) 3. CONNECTICUT STATE BUILDING CODE (2018)	G-002	IBC GENERAL NOTES AND MOUNT MODIFICATION INSPECTION	0
		S-101	MODIFICATION PROFILE	0
		R-601	SUPPLEMENTAL	0
	<u>PROJECT LOCATION</u> <u>GEOGRAPHIC COORDINATES</u> LATITUDE: 41.42080556 LONGITUDE: -72.8488			

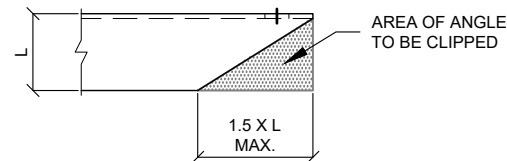
GENERAL

- 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.		

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.

AS-BUILT CDs
Ramapo Communicaion Corp
2/5/2021
Matthew Schlosser
Matthew Schlosser



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REV.	DESCRIPTION	BY	DATE
△	FIRST ISSUE	BJK	07/06/20
△			
△			
△			
△			

ATC SITE NUMBER:

302482

ATC SITE NAME:

**NORTH HAVEN CT 1
CONNECTICUT**

SITE ADDRESS:

15 DEWIGHT STREET
NORTH HAVEN, CT 06473



DRAWN BY:	BJK
APPROVED BY:	TCR
DATE DRAWN:	07/06/20
ATC JOB NO:	13242626_C9_04

**IBC GENERAL NOTES
AND MOUNT MODIFICATION
INSPECTION**

SHEET NUMBER:

G-002

REVISION:

0



AMERICAN TOWER®
A.T. ENGINEERING SERVICE, PLLC
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 SUITE 100
 CARY, NC 27518
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 COA: PEC.0001553

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REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	BJK	07/06/20

ATC SITE NUMBER:
302482

ATC SITE NAME:
NORTH HAVEN CT 1

CONNECTICUT

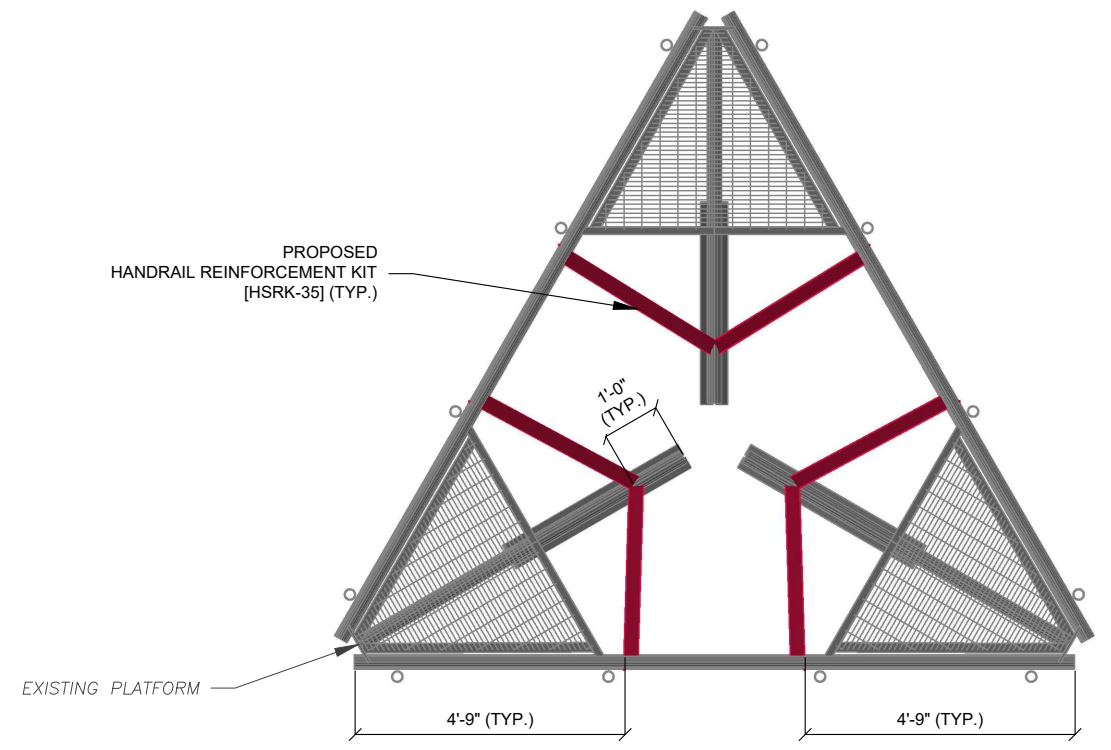
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 NORTH HAVEN, CT 06473



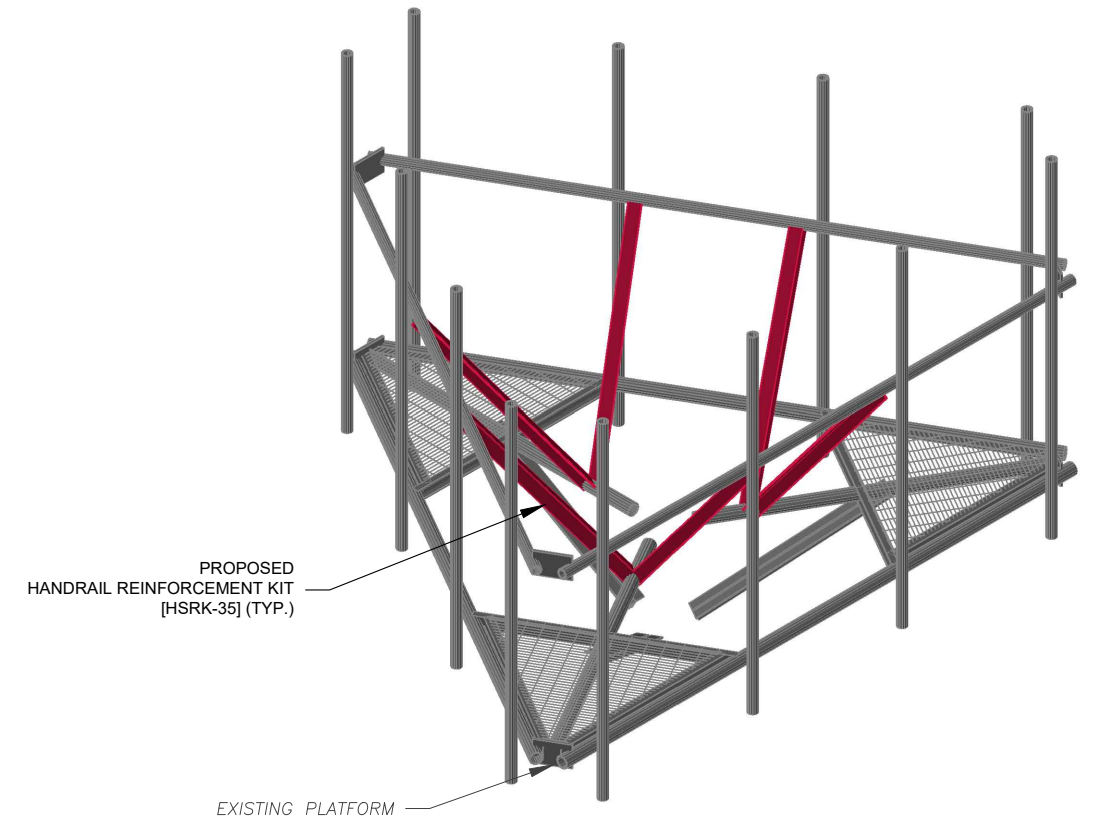
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APPROVED BY:	TCR
DATE DRAWN:	07/06/20
ATC JOB NO:	13242626_C9_04

MODIFICATION PROFILE

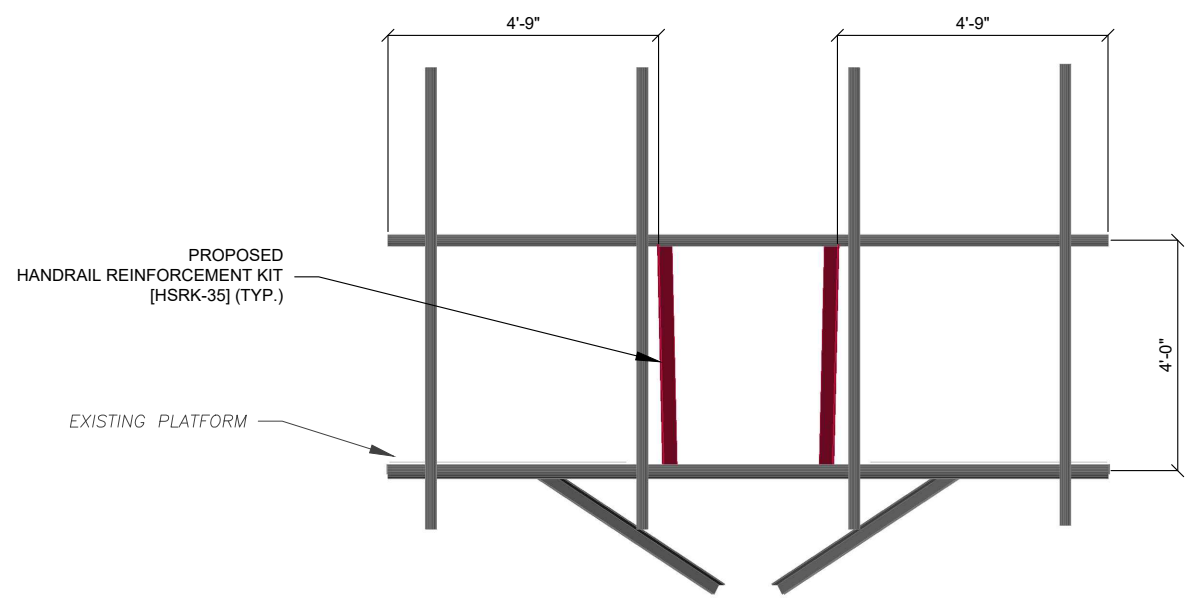
SHEET NUMBER:	REVISION:
S-101	0



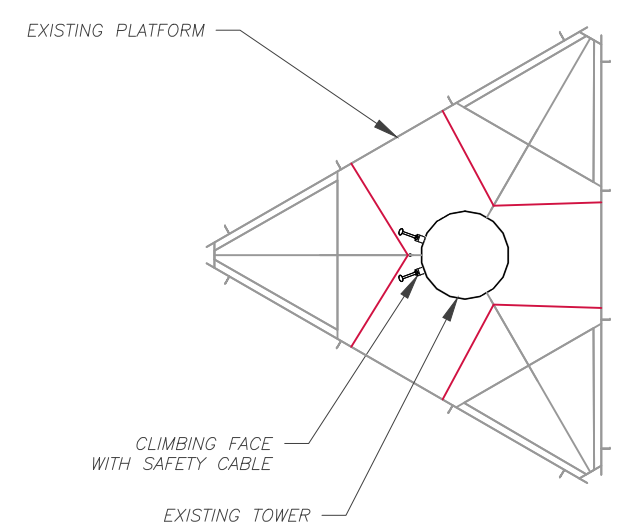
MOUNT MODIFICATION - TOP VIEW



MOUNT MODIFICATION - ISOMETRIC VIEW



MOUNT MODIFICATION - FRONT VIEW



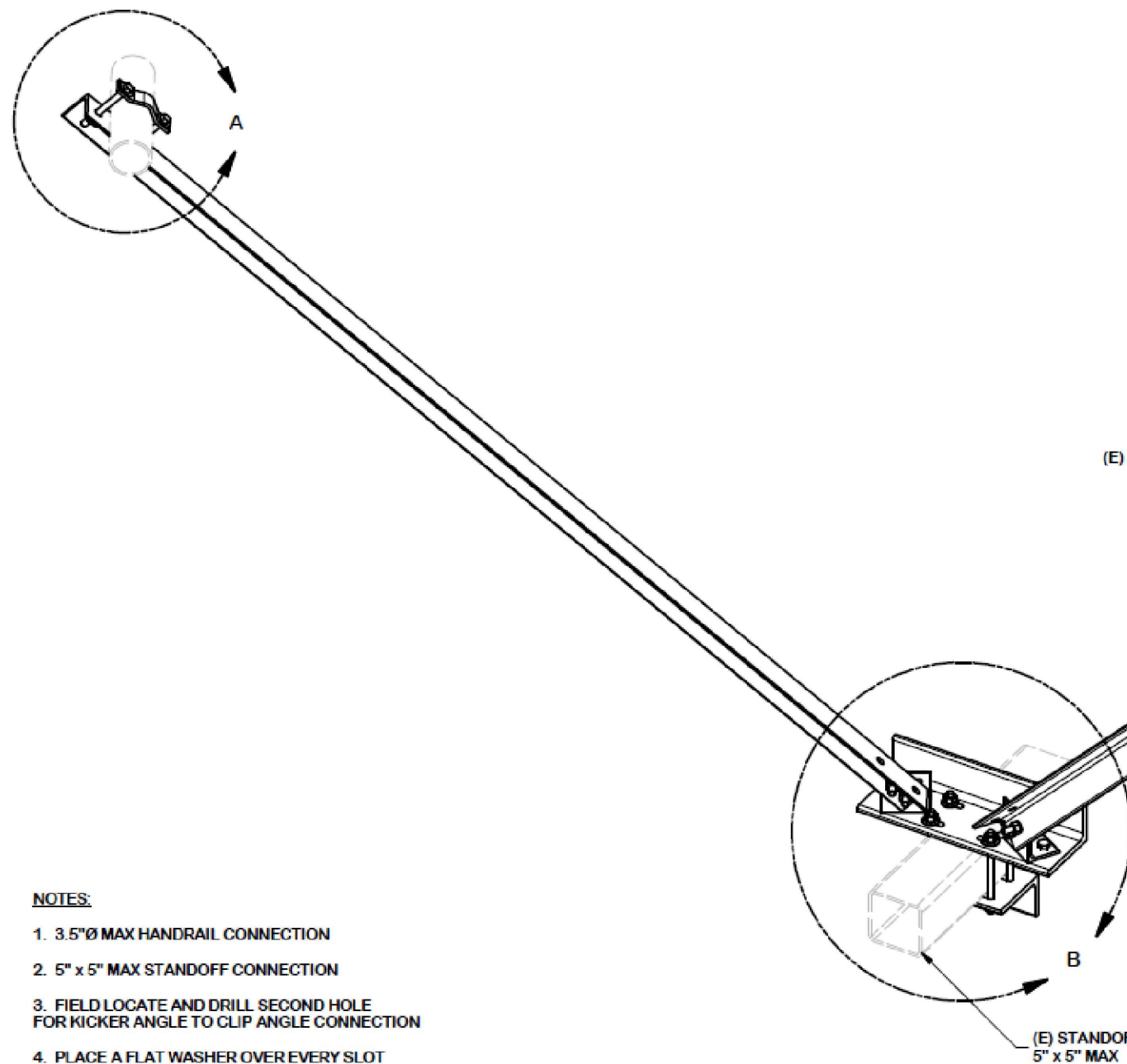
SAFETY CLIMB LOCATION



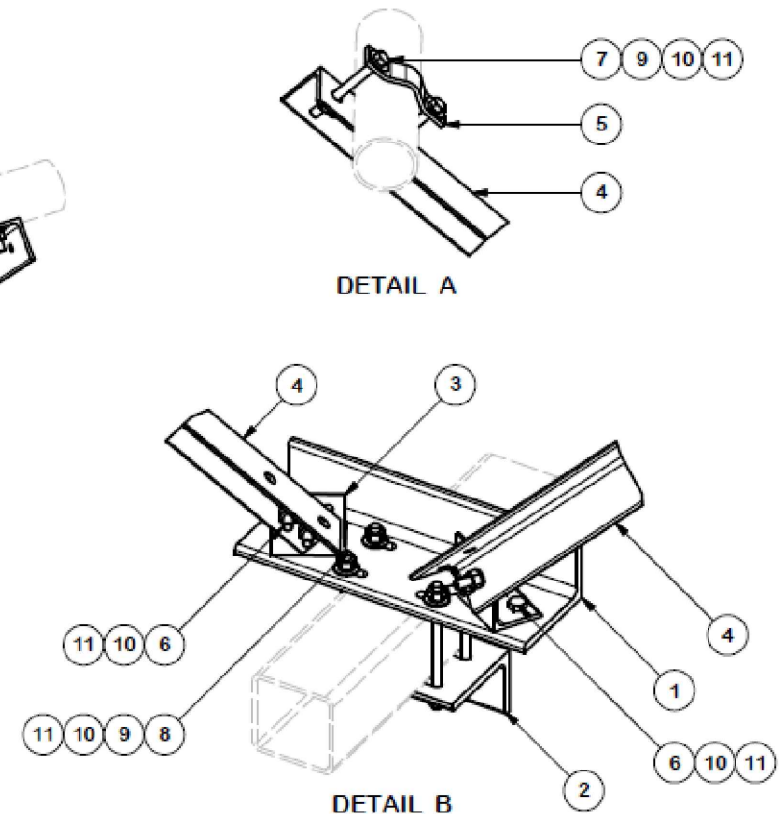
NOTE:
 CONTRACTOR TO INSTALL MOUNT MODIFICATIONS PER THE MANUFACTURER'S SPECIFICATION. MODIFICATIONS SHALL NOT OBSTRUCT, INTERFERE, OR BLOCK EXISTING SAFETY CLIMB SYSTEM. IF ANY OF THESE OCCURS DURING INSTALLATION CONTACT THE AMERICAN TOWER PMI INBOX AT PMI@AMERICANTOWER.COM

AS-BUILT CDs
Ramapo Communication Corp
 2/5/2021
Matthew Schlosser
Matthew Schlosser

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PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	X-KB35	KICKER BRACKET	18 in	25.32	25.32
2	1	X-BA35	BACKER ANGLE	9 in	12.45	12.45
3	2	X-UCA	CLIP ANGLE	4 in	1.94	3.89
4	2	X-KA314	KICKER ANGLE	96 in	41.67	83.35
5	2	ACP	CLAMP HALF	5 3/4 in	0.65	1.31
6	8	G1202	1/2" x 2" HDG HEX BOLT GR5	2 in	0.18	1.41
7	4	G1205	1/2" x 5" HDG HEX BOLT GR5 FULL THREAD	5 in	0.33	1.30
8	4	G12R-8	1/2" x 8" THREADED ROD (HDG.)		0.40	1.60
9	16	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	0.55
10	20	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	0.28
11	20	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	1.43
TOTAL WT. #						141.05



- NOTES:**
- 3.5"Ø MAX HANDRAIL CONNECTION
 - 5" x 5" MAX STANDOFF CONNECTION
 - FIELD LOCATE AND DRILL SECOND HOLE FOR KICKER ANGLE TO CLIP ANGLE CONNECTION
 - PLACE A FLAT WASHER OVER EVERY SLOT
 - KIT INCLUDES STEEL AND HARDWARE FOR ONE SECTOR ONLY

TOLERANCE NOTES

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

PROPRIETARY NOTE:
 THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.

DESCRIPTION HANDRAIL TO STANDOFF REINFORCEMENT KIT (3" - 5" STANDOFF)			
CPD NO. 5822	DRAWN BY CSL3 6/29/2017	ENG. APPROVAL 3RD PARTY	PART NO. HSRK-35
CLASS 87	SUB 02	DRAWING USAGE SHOP	CHECKED BY KAC 8/3/2017

SITE PRO 1
 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

PAGE 1 OF 2

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
 2/5/2021
 Matthew Schlosser
 Matthew Schlosser

SUPPLEMENTAL

SHEET NUMBER: R-601
 REVISION: 0