

STATE OF CONNECTICUT CONNECTICUT SITING COUNCIL Ten Franklin Square, New Britain, CT 06051 Phone: (860) 827-2935 Fax: (860) 827-2950 E-Mail: siting.council@ct.gov www.ct.gov/csc

VIA ELECTRONIC MAIL

May 28, 2019

Scott Pike Site Acquisition Specialist Empire Telecom USA, LLC 16 Billerica Road Billerica, MA 01862

RE: **EM-AT&T-094-190514** – AT&T Mobility notice of intent to modify an existing telecommunications facility located at 99 Cedarwood Lane, Newington, Connecticut.

Dear Mr. Pike:

The Connecticut Siting Council (Council) is in receipt of your correspondence of May 22, 2019 submitted in response to the Council's May 15, 2019 notification of an incomplete request for exempt modification with regard to the above-referenced matter.

The submission renders the request for exempt modification complete and the Council will process the request in accordance with the Federal Communications Commission 60-day timeframe.

Thank you for your attention and cooperation.

Sincerely,

Melanie A. Bachman Executive Director

MAB/IN/emr



S:\FORMS & TEMPLATES\EXMOD\em-at&t-094-190514_responseandacknowledg

Robidoux, Evan

From: Sent:	Scott Pike <spike@empiretelecomm.com> Wednesday, May 22, 2019 9:40 AM</spike@empiretelecomm.com>
То:	Nwankwo, Ifeanyi
Cc:	CSC-DL Siting Council
Subject:	RE: Council Incomplete Letter for EM-AT&T-094-190514-CedarwoodLn-Newington
Attachments:	18000.21 CT1145 NEWINGTON LTE 5C_6C_7C_FIRSTNET - CD Rev1 19.05.22 (S&S)pdf

Hello,

Please see the attached revised CD's with the new IBC codes. A hard copy is being mailed to you overnight.

Thanks!

From: Nwankwo, Ifeanyi [mailto:Ifeanyi.Nwankwo@ct.gov]
Sent: Monday, May 20, 2019 12:22 PM
To: Scott Pike
Cc: CSC-DL Siting Council
Subject: RE: Council Incomplete Letter for EM-AT&T-094-190514-CedarwoodLn-Newington

Hi Mr. Pike,

Good Morning, and thank you for your email. The Council requires one hard copy and one electronic copy of the response to the incomplete request for exempt modifications.

Upon receipt of the response, it is reviewed and if found satisfactory will be rendered complete and the request processed in accordance with the FCC's 60-day timeframe.

I hope this answers your question.

Please don't hesitate to contact me if you have any more questions.

Thank You.

Best Regards Ifeanyichukwu Nwankwo Connecticut Siting Council 10 Franklin Square New Britain. CT 06051 P: 860.827.2941 | F: 860.827.2950 | E: Ifeanyi.Nwankwo@ct.gov



www.ct.gov/csc

Conserving, improving and protecting our natural resources and environment; Ensuring a clean, affordable, reliable, and sustainable energy supply. From: Scott Pike [mailto:spike@empiretelecomm.com]
Sent: Friday, May 17, 2019 4:09 PM
To: Robidoux, Evan
Cc: CSC-DL Siting Council
Subject: RE: Council Incomplete Letter for EM-AT&T-094-190514-CedarwoodLn-Newington

Hello, I will have the CD's revised with the new codes. When I have these can I email over a copy for you to review and approve?

Thanks,

From: Robidoux, Evan [mailto:Evan.Robidoux@ct.gov]
Sent: Friday, May 17, 2019 4:04 PM
To: Scott Pike
Cc: CSC-DL Siting Council
Subject: Council Incomplete Letter for EM-AT&T-094-190514-CedarwoodLn-Newington

Please see the attached correspondence.

Evan Robidoux Clerk Typist Connecticut Siting Council 10 Franklin Square New Britain, CT 06051

Disclaimer: This email is intended only for the use of the individual or entity to which it is addressed, and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If you received this communication in error, please do not distribute it and notify us immediately by email (<u>administrator@qualtekservices.com</u>) or via telephone (484.804.4500) and delete the original message. Unless expressly stated in this email, nothing in this message or any attachment should be construed as a digital or electronic signature.

Disclaimer: This email is intended only for the use of the individual or entity to which it is addressed, and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If you received this communication in error, please do not distribute it and notify us immediately by email (administrator@qualtekservices.com) or via telephone (484.804.4500) and delete the original message. Unless expressly stated in this email, nothing in this message or any attachment should be construed as a digital or electronic signature.

WIRELESS COMMUNICATIONS FACILITY CT1145 - LTE 5C/6C/7C FIRSTNET NEWINGTON 99 CEDARWOOD LANE NEWINGTON, CT 06111

SITE DIRECTIONS

GENERAL NOTES

- 1. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2015 INTERNATIONAL BUILDING CODE AS MODIFIED BY THE 2018 CONNECTICUT STATE BUILDING CODE, INCLUDING THE TIA-222 REVISION "G" STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND SUPPORTING STRUCTURES, 2018 CONNECTICUT FIRE SAFETY CODE AND, 2017 NATIONAL ELECTRICAL CODE AND LOCAL CODES.
- 2. THE COMPOUND, TOWER, PRIMARY GROUND RING, ELECTRICAL SERVICE TO THE METER BANK AND TELEPHONE SERVICE TO THE DEMARCATION POINT ARE PROVIDED BY SITE OWNER. AS BUILT FIELD CONDITIONS REGARDING THESE ITEMS SHALL BE CONFIRMED BY THE CONTRACTOR. SHOULD ANY FIELD CONDITIONS PRECLUDE COMPLIANCE WITH THE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL NOT PROCEED WITH ANY AFFECTED WORK.
- 3. CONTRACTOR SHALL REVIEW ALL DRAWINGS AND SPECIFICATIONS IN THE CONTRACT DOCUMENT SET. CONTRACTOR SHALL COORDINATE ALL WORK SHOWN IN THE SET OF DRAWINGS. THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF DRAWINGS TO ALL SUBCONTRACTORS AND ALL RELATED PARTIES. THE SUBCONTRACTORS SHALL EXAMINE ALL THE DRAWINGS AND SPECIFICATIONS FOR THE INFORMATION THAT AFFECTS THEIR WORK.
- 4. CONTRACTOR SHALL PROVIDE A COMPLETE BUILD-OUT WITH ALL FINISHES, STRUCTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS AND PROVIDE ALL ITEMS AS SHOWN OR INDICATED ON THE DRAWINGS OR IN THE WRITTEN SPECIFICATIONS.
- 5. CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR AND EQUIPMENT TO COMPLETE THE WORK AND FURNISH A COMPLETED JOB ALL IN ACCORDANCE WITH LOCAL AND STATE GOVERNING AUTHORITIES AND OTHER AUTHORITIES HAVING LAWFUL JURISDICTION OVER THE WORK.
- 6. CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND ALL INSPECTIONS REQUIRED AND SHALL ALSO PAY FEES REQUIRED FOR THE GENERAL CONSTRUCTION, PLUMBING, ELECTRICAL AND HVAC. PERMITS SHALL BE PAID FOR BY THE RESPECTIVE SUBCONTRACTORS.
- 7. CONTRACTOR SHALL MAINTAIN A CURRENT SET OF DRAWINGS AND SPECIFICATIONS ON SITE AT ALL TIMES AND INSURE DISTRIBUTION OF NEW DRAWINGS TO SUBCONTRACTORS AND OTHER RELEVANT PARTIES AS SOON AS THEY ARE MADE AVAILABLE. ALL OLD DRAWINGS SHALL BE MARKED VOID AND REMOVED FROM THE CONTRACT AREA. THE CONTRACTOR SHALL FURNISH AN 'AS-BUILT' SET OF DRAWINGS TO OWNER UPON COMPLETION OF PROJECT.
- 8. LOCATION OF EQUIPMENT, AND WORK SUPPLIED BY OTHERS THAT IS DIAGRAMMATICALLY INDICATED ON THE DRAWINGS SHALL BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR SHALL DETERMINE LOCATIONS AND DIMENSIONS SUBJECT TO STRUCTURAL CONDITIONS AND WORK OF THE SUBCONTRACTORS.
- 9. THE CONTRACTOR IS SOLELY RESPONSIBLE TO DETERMINE CONSTRUCTION PROCEDURE AND SEQUENCE, AND TO ENSURE THE SAFETY OF THE EXISTING STRUCTURES AND ITS COMPONENT PARTS DURING CONSTRUCTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, BRACING, UNDERPINNING, ETC. THAT MAY BE NECESSARY. MAINTAIN EXISTING BUILDING'S/PROPERTY'S OPERATIONS, COORDINATE WORK WITH BUILDING/PROPERTY OWNER.

- 10. DRAWINGS INDICATE THE MINIMUM STANDARDS, BUT IF ANY WORK SHOULD BE INDICATED TO BE SUBSTANDARD TO ANY ORDINANCES, LAWS, CODES, RULES, OR REGULATIONS BEARING ON THE WORK, THE CONTRACTOR SHALL INCLUDE IN HIS WORK AND SHALL EXECUTE THE WORK CORRECTLY IN ACCORDANCE WITH SUCH ORDINANCES, LAWS, CODES. RULES OR REGULATIONS WITH NO INCREASE IN COSTS.
- 11. ALL UTILITY WORK SHALL BE IN ACCORDANCE WITH LOCAL UTILITY COMPANY REQUIREMENTS AND SPECIFICATIONS.
- 12. ALL EQUIPMENT AND PRODUCTS PURCHASED ARE TO BE REVIEWED BY CONTRACTOR AND ALL APPLICABLE SUBCONTRACTORS FOR ANY CONDITION PER MFR.'S RECOMMENDATIONS. CONTRACTOR TO SUPPLY THESE ITEMS AT NO COST TO OWNER OR CONSTRUCTION MANAGER.
- 13. ANY AND ALL ERRORS, DISCREPANCIES, AND 'MISSED" ITEMS ARE TO BE BROUGHT TO THE ATTENTION OF THE AT&T CONSTRUCTION MANAGER DURING THE BIDDING PROCESS BY THE CONTRACTOR. ALL THESE ITEMS ARE TO BE INCLUDED IN THE BID. NO 'EXTRA' WILL BE ALLOWED FOR MISSED ITEMS.
- 14. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ON-SITE SAFETY FROM THE TIME THE JOB IS AWARDED UNTIL ALL WORK IS COMPLETE AND ACCEPTED BY THE OWNER.
- 15. CONTRACTOR TO REVIEW ALL SHOP DRAWINGS AND SUBMIT COPY TO ENGINEER FOR APPROVAL. DRAWINGS MUST BEAR THE CHECKER'S INITIALS BEFORE SUBMITTING TO THE CONSTRUCTION MANAGER FOR REVIEW.
- 16. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, ANGLES, AND EXISTING CONDITIONS AT THE SITE, PRIOR TO FABRICATION AND/OR INSTALLATION OF ANY WORK IN THE CONTRACT AREA.
- 17. COORDINATION, LAYOUT, FURNISHING AND INSTALLATION OF CONDUIT AND ALL APPURTENANCES REQUIRED FOR PROPER INSTALLATION OF ELECTRICAL AND TELECOMMUNICATION SERVICE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 18. ALL EQUIPMENT AND PRODUCTS PURCHASED ARE TO BE REVIEWED BY CONTRACTOR AND ALL APPLICABLE SUB-CONTRACTORS FOR ANY CONDITION PER THE MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR TO SUPPLY THESE ITEMS AT NO COST TO OWNER OR CONSTRUCTION MANAGER.
- RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE HELD LIABLE FOR ALL REPAIRS REQUIRED FOR EXISTING STRUCTURES IF DAMAGED DURING CONSTRUCTION ACTIVITIES.
- 20. THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT LEAST 48 HOURS PRIOR TO ANY EXCAVATIONS AT 1-800-922-4455. ALL UTILITIES SHALL BE IDENTIFIED AND CLEARLY MARKED PRIOR TO ANY EXCAVATION WORK. CONTRACTOR SHALL MAINTAIN AND PROTECT MARKED UTILITIES THROUGHOUT PROJECT COMPLETION.
- 21. CONTRACTOR SHALL COMPLY WITH OWNERS ENVIRONMENTAL ENGINEER ON ALL METHODS AND PROVISIONS FOR ALL EXCAVATION ACTIVITIES THE CONTRACTOR.



19. ALL DAMAGE CAUSED TO ANY EXISTING STRUCTURE SHALL BE THE SOLE

INCLUDING SOIL DISPOSAL. ALL BACKFILL MATERIALS TO BE PROVIDED BY

FROM: 500 ENTERPRISE DRIVE ROCKY HILL, CONNECTICUT TO: 99 CEDARWOOD LANE NEWINGTON, CONNECTICUT . TURN LEFT ONTO CAPITAL BLVD. TURN LEFT ONTO WEST ST. 3. TURN RIGHT ONTO CROMWELL AVE/CT-3. 4. TURN LEFT ONTO NEW BRITAIN AVE/CT-160. TAKE THE 3RD RIGHT ONTO HAYES RD. HAYES RD BECOMES HIGHLAND ST. HIGHLAND ST BECOMES THORNBUSH RD. 8. TURN LEFT ONTO PROSPECT ST/CT-287. 9. TURN LEFT ONTO US-5 S/CT-15 S/CT-287/BERLIN TURNPIKE. 10. TAKE THE 1ST RIGHT ONTO E ROBBINS AVE/CT-287. 11. TAKE THE 1ST RIGHT ONTO GOODALE DR 12. TAKE THE 1ST RIGHT ONTO CEDARWOOD LN. 13. 99 CEDARWOOD LN, NEWINGTON, CT 06111-3127, 99 CEDARWOOD LN IS ON THE LEFT. SCALE: 1" = 1000' VICINITY MAP RENTWOOL Water-Tan lan Newington - Int ruppled Childrens 0 Home PROJECT 8D INTERWOOD LOCATION

0.36 MI

0.27 MI

0.59 MI

0.81 MI

0.39 MI

0.82 MI

0.66 MI

0.57 MI

0.77 MI

0.06 MI

0.22 MI

0.10 MI

0.50 MI

AT&T FA LOCATION CODE: ENGINEER:
AT&T SITE NUMBER: AT&T SITE NAME: SITE ADDRESS: LESSEE/APPLICANT: AT&T PACE ID NUMBER:
PROJECT SUM I. THE PROPOSED SCOPE (THE EXISTING UNMANNED THE FOLLOWING: A. AT ANTENNA SECTORS: • REPLACE THE EXIST BOOM MOUNTS AS • INSTALL KATHREIN A • INSTALL KATHREIN A • INSTALL KATHREIN A • INSTALL B14-4478 B. AT THE EQUIPMENT SH • REMOVE EXISTING R RACK TO ACCOMMOI • INSTALL B14-4478 B. AT THE EQUIPMENT SH • REMOVE EXISTING R RACK TO ACCOMMOI • RRUS (TOTAL OF 6) ON NEWLY PROPOSI • INSTALL (3) RRUS- (6) SURGE ARRESTO • IN LTE RACK, ADD

SHEET INDEX			
SHT. NO.	DESCRIPTION	REV.	
T-1	TITLE SHEET	0	
N-1	NOTES, SPECIFICATIONS AND ANTENNA SCHEDULE	0	
C-1	PLANS AND ELEVATION	0	
C-2	ANTENNA CONFIGURATION DETAILS	0	
C-3	DETAILS	0	
C-4	DETAILS	0	
E-1	SCHEMATIC DIAGRAM AND NOTES	0	
E-2	WIRING DIAGRAM	0	
E-3	TYPICAL ELECTRICAL DETAILS	0	
		•	

SCALE: AS NOTED JOB NO. 18000.21 TITLE SHEET

Sheet No. <u>1</u> of <u>9</u>

03/15/18

DATE:

S

4

NOTES AND SPECIFICATIONS

DESIGN BASIS:

- 1. DESIGN CRITERIA:
- WIND LOAD: PER TIA 222 G (ANTENNA MOUNTS): 90–110 MPH (3 SECOND GUST)
- RISK CATEGORY: II (BASED ON IBC TABLE 1604.5)
- NOMINAL DESIGN SPEED (OTHER STRUCTURE): 93 MPH (Vasd) (EXPOSURE B/IMPORTANCE FACTOR 1.0 BASED ON ASCE 7-10) PER 2015 INTERNATIONAL BUILDING CODE (IBC) AS MODIFIED BY THE 2018 CONNECTICUT STATE BUILDING CODE. BUILDING AND OTHER STRUCTURES.
- SEISMIC LOAD (DOES NOT CONTROL): PER ASCE 7-10 MINIMUM DESIGN LOADS FOR

GENERAL NOTES:

- 1. ALL CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE GOVERNING BUILDING CODE.
- 2. DRAWINGS INDICATE THE MINIMUM STANDARDS, BUT IF ANY WORK SHOULD BE INDICATED TO BE SUBSTANDARD TO ANY ORDINANCES, LAWS, CODES, RULES, OR REGULATIONS BEARING ON THE WORK, THE CONTRACTOR SHALL INCLUDE IN HIS WORK AND SHALL EXECUTE THE WORK CORRECTLY IN ACCORDANCE WITH SUCH ORDINANCES, LAWS, CODES, RULES OR REGULATIONS WITH NO INCREASE IN COSTS.
- AND COST OF THE WORK.
- 4. DIMENSIONS AND DETAILS SHALL BE CHECKED AGAINST EXISTING FIELD CONDITIONS.
- 6. ALL DIMENSIONS, ELEVATIONS, AND OTHER REFERENCES TO EXISTING STRUCTURES, SURFACE, AND SUBSURFACE CONDITIONS ARE APPROXIMATE. NO GUARANTEE IS MADE FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS, ELEVATIONS, ANGLES WITH EXISTING CONDITIONS AND WITH ARCHITECTURAL AND SITE DRAWINGS BEFORE PROCEEDING WITH ANY WORK.
- 7. AS THE WORK PROGRESSES, THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY CONDITIONS WHICH ARE IN CONFLICT OR OTHERWISE NOT CONSISTENT WITH THE CONSTRUCTION DOCUMENTS AND SHALL NOT PROCEED WITH SUCH WORK UNTIL THE CONFLICT IS SATISFACTORILY RESOLVED.
- 8. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROVIDING AND MAINTAINING ADEQUATE SHORING, BRACING, AND BARRICADES AS MAY BE REQUIRED FOR THE PROTECTION OF EXISTING PROPERTY, CONSTRUCTION WORKERS, AND FOR PUBLIC SAFETY.
- 9. THE CONTRACTOR IS SOLELY RESPONSIBLE TO DETERMINE CONSTRUCTION PROCEDURE AND SEQUENCE, AND TO ENSURE THE SAFETY OF THE EXISTING STRUCTURES AND ITS COMPONENT PARTS DURING CONSTRUCTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, BRACING, UNDERPINNING, ETC. THAT MAY BE NECESSARY. MAINTAIN EXISTING SITE OPERATIONS, COORDINATE WORK WITH NORTHEAST UTILITIES
- 10. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER FOUNDATION REMEDIATION WORK IS COMPLETE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND TO ENSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, TEMPORARY BRACING, GUYS OR TIEDOWNS, WHICH MIGHT BE NECESSARY.
- 11. ALL DAMAGE CAUSED TO ANY EXISTING STRUCTURE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE HELD LIABLE FOR ALL REPAIRS REQUIRED FOR EXISTING STRUCTURES IF DAMAGED DURING CONSTRUCTION ACTIVITIES.
- 12. SHOP DRAWINGS, CONCRETE MIX DESIGNS, TEST REPORTS, AND OTHER SUBMITTALS PERTAINING TO STRUCTURAL WORK SHALL BE FORWARDED TO THE OWNER FOR REVIEW BEFORE FABRICATION AND/OR INSTALLATION IS MADE. SHOP DRAWINGS SHALL INCLUDE ERECTION DRAWINGS AND COMPLETE DETAILS OF CONNECTIONS AS WELL AS MANUFACTURER'S SPECIFICATION DATA WHERE APPROPRIATE. SHOP DRAWINGS SHALL BE CHECKED BY THE CONTRACTOR AND BEAR THE CHECKER'S INITIALS BEFORE BEING SUBMITTED FOR REVIEW.
- 13. NO DRILLING WELDING OR TAPING ON EVERSOURCE OWNED EQUIPMENT.
- 14. REFER TO DRAWING T1 FOR ADDITIONAL NOTES AND REQUIREMENTS.

	PROPOSED ANTENNA AND APPURTENANCE SCHEDULE										
SECTOR	EXISTING/PROPOSED	BAND	ANTENNA	SIZE (INCHES) (L x W x D)	TENNA & HEI	GHT ^{AZIMUTH}	(E/P) TMA/DIPLEXER/TRIPLEXER (QTY)	(E/P) RRU (QTY)	FEEDER		
A1	EXISTING	UMTS 850	POWERWAVE (7770)	55 x 11 x 5	120'	143°	(E) PWAV TMA: LGP21401 SINGLE 1900 W/ 850BP (2), (E) KATHREIN DIPLEX.: 782-1025	50	Zø COAX		
A2	EXISTING	LTE WCS/850/700DE	CCI (OPA-65R-LCUU-H6)	72.0 x 14.8 x 7.4	120'	90°	(E) CCI TRIPLEX.: TPX-070821	(E) RRUS-11 (1), (E) RRUS-32 (1), (P)RRUS-E2 (1)	$\frac{7}{8}$ Ø COAX (2), FIBER		
A3	PROPOSED	LTE 700 B14/AWS	KATHREIN (800-10965)	78.7 x 20.0 x 6.9	120'	90°		(P) B14-4478 (1), (P) RRUS-32 B66 (1)	FIBER AND DO		
A4	EXISTING	LTE 700/PCS	QUINTEL (QS66512-2)	72.0 x 12.0 x 9.6	120'	90°		(E) RRUS-11 (1), (E) RRUS-32 B2 (1)	FIBER AND DO		
B1	EXISTING	UMTS 850	POWERWAVE (7770)	55 x 11 x 5	120'	263°	(E) PWAV TMA: LGP21401 SINGLE 1900 W/ 850BP (2), (E) KATHREIN DIPLEX.: 782-1025	50	Zø COAX		
B2	EXISTING	LTE WCS/850/700DE	CCI (OPA-65R-LCUU-H6)	72.0 x 14.8 x 7.4	120'	220°	(E) CCI TRIPLEX.: TPX-070821	(E) RRUS-11 (1), (E) RRUS-32 (1), (P)RRUS-E2 (1)	$\frac{7}{8}$ Ø COAX (2), FIBER		
B3	PROPOSED	LTE 700 B14/AWS	KATHREIN (800-10965)	78.7 x 20.0 x 6.9	120'	220°		(P) B14-4478 (1), (P) RRUS-32 B66 (1)	FIBER AND DO		
B4	EXISTING	LTE 700/PCS	QUINTEL (QS66512-2)	72.0 x 12.0 x 9.6	120'	220°		(E) RRUS-11 (1), (E) RRUS-32 B2 (1)	FIBER AND DO		
C1	EXISTING	UMTS 850	POWERWAVE (7770)	55 x 11 x 5	120'	23°	(E) PWAV TMA: LGP21401 SINGLE 1900 W/ 850BP (2), (E) KATHREIN DIPLEX.: 782-1025	50			
C2	EXISTING	LTE WCS/850/700DE	CCI (OPA-65R-LCUU-H6)	72.0 x 14.8 x 7.4	120'	340°	(E) CCI TRIPLEX.: TPX-070821	(E) RRUS-11 (1), (E) RRUS-32 (1), (P)RRUS-E2 (1)	$\frac{7}{8}$ Ø COAX (2), FIBER		
C3	PROPOSED	LTE 700 B14/AWS	KATHREIN (800–10965)	78.7 x 20.0 x 6.9	120'	340°		(P) B14-4478 (1), (P) RRUS-32 B66 (1)	FIBER AND DO		
	EXISTING	LTE 700/PCS	QUINTEL (QS66512-2)	72.0 x 12.0 x 9.6	120'	340°		(E) RRUS-11 (1), (E) RRUS-32 B2 (1)	FIBER AND DO		

- GOVERNING CODE: 2015 INTERNATIONAL BUILDING (IBC) AS MODIFIED BY THE 2018 CT STATE BUILDING CODE AND AMENDMENTS.

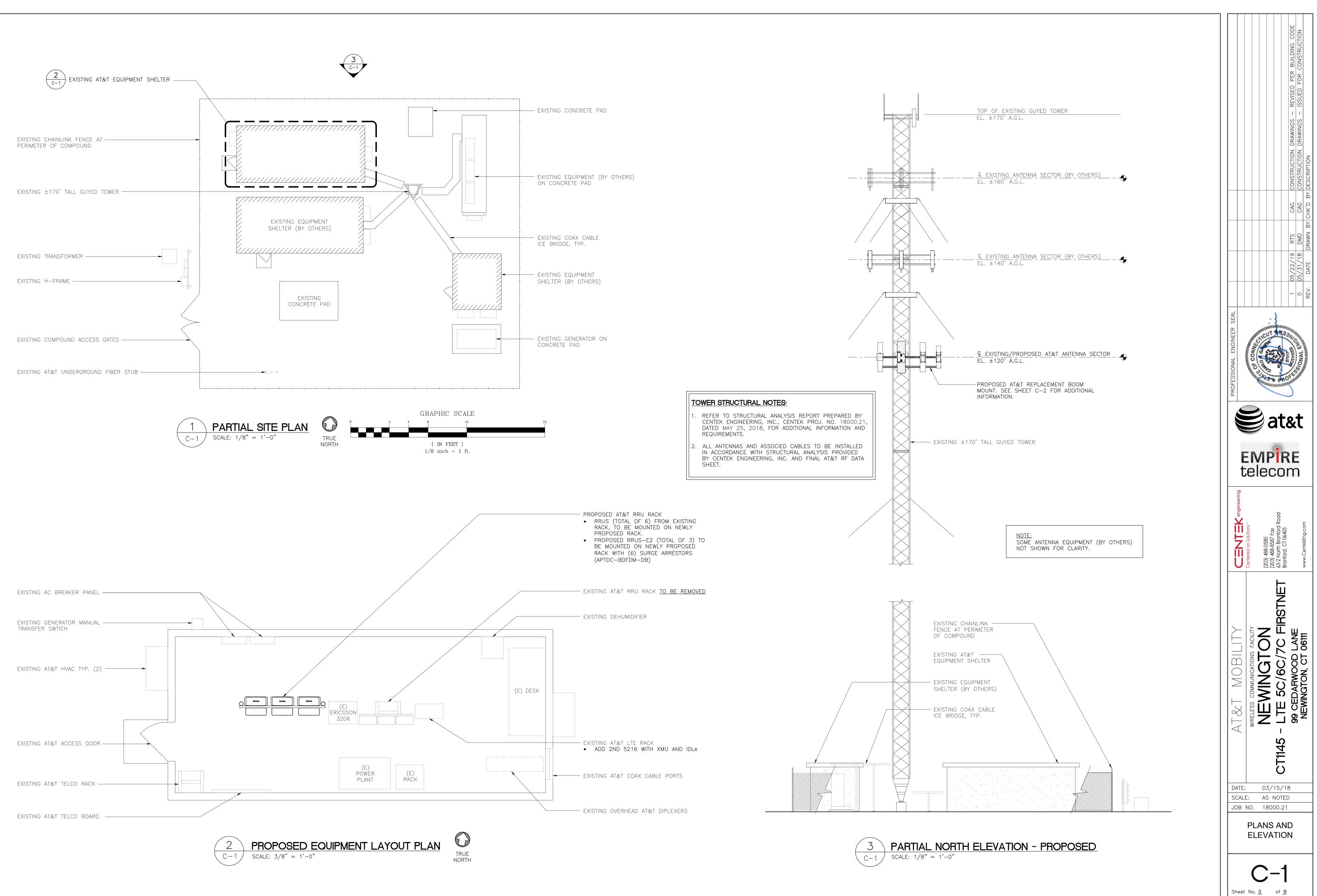
- 3. BEFORE BEGINNING THE WORK, THE CONTRACTOR IS RESPONSIBLE FOR MAKING SUCH INVESTIGATIONS CONCERNING PHYSICAL CONDITIONS (SURFACE AND SUBSURFACE) AT OR CONTIGUOUS TO THE SITE WHICH MAY AFFECT PERFORMANCE
- 5. THE CONTRACTOR SHALL VERIFY AND COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS, SLEEVES AND ANCHOR BOLTS AS REQUIRED BY ALL TRADES.

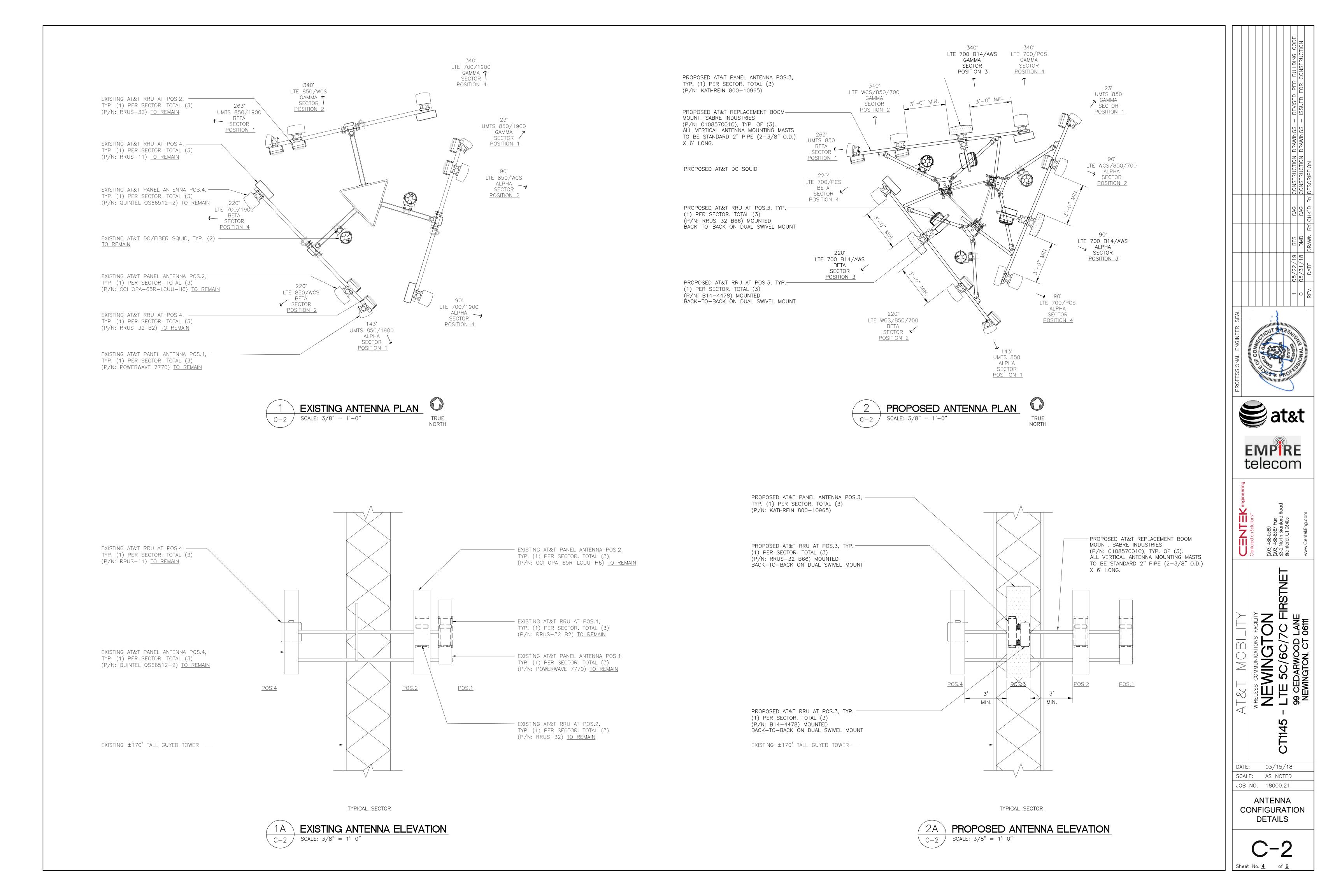
STRUCTURAL STEEL

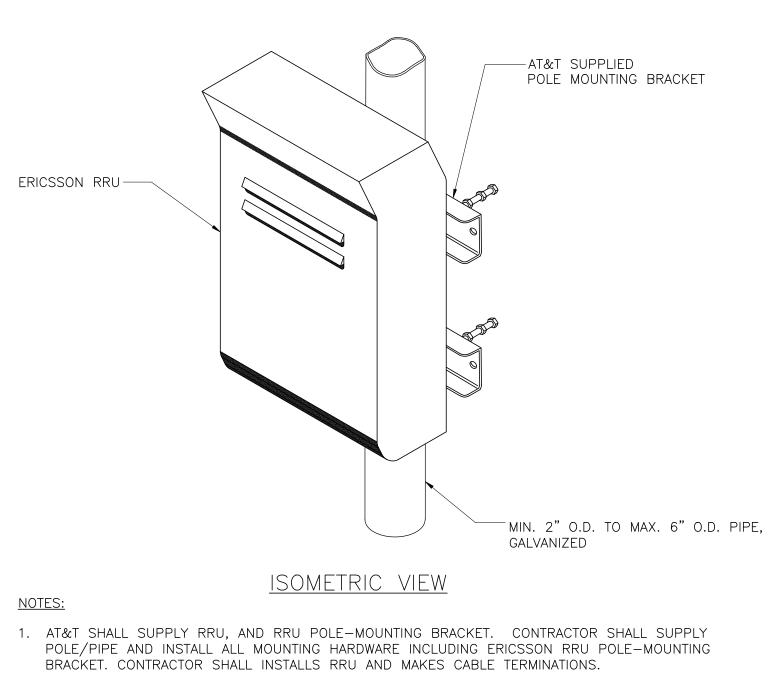
- 1. ALL STRUCTURAL STEEL IS DESIGNED BY ALLOWABLE STRESS DESIGN (ASD)
 - A. STRUCTURAL STEEL (W SHAPES) -- ASTM A992 (FY = 50 KSI)
 - STRUCTURAL STEEL (OTHER SHAPES) -- ASTM A36 (FY = 36 KSI) C. STRUCTURAL HSS (RECTANGULAR SHAPES) --- ASTM A500 GRADE B,
 - (FY = 46 KSI)
- D. STRUCTURAL HSS (ROUND SHAPES)---ASTM A500 GRADE B,
- (FY = 42 KSI)PIPE---ASTM A53 (FY = 35 KSI)
- CONNECTION BOLTS---ASTM A325-N
- U-BOLTS---ASTM A36 ANCHOR RODS---ASTM F 1554 Η.
- WELDING ELECTRODE---ASTM E 70XX <u>|</u>.
- 2. CONTRACTOR TO REVIEW ALL SHOP DRAWINGS AND SUBMIT COPY TO ENGINEER FOR APPROVAL. DRAWINGS MUST BEAR THE CHECKER'S INITIALS BEFORE SUBMITTING TO THE ENGINEER FOR REVIEW. SHOP DRAWINGS SHALL INCLUDE THE FOLLOWING: SECTION PROFILES, SIZES, CONNECTION ATTACHMENTS, REINFORCING, ANCHORAGE, SIZE AND TYPE OF FASTENERS AND ACCESSORIES. INCLUDE ERECTION DRAWINGS, ELEVATIONS AND DETAILS.
- 3. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST PROVISIONS OF AISC MANUAL OF STEEL CONSTRUCTION.
- 4. PROVIDE ALL PLATES, CLIP ANGLES, CLOSURE PIECES, STRAP ANCHORS, MISCELLANEOUS PIECES AND HOLES REQUIRED TO COMPLETE THE STRUCTURE.
- 5. FIT AND SHOP ASSEMBLE FABRICATIONS IN THE LARGEST PRACTICAL SECTIONS FOR DELIVERY TO SITE.
- 6. INSTALL FABRICATIONS PLUMB AND LEVEL, ACCURATELY FITTED, AND FREE FROM DISTORTIONS OR DEFECTS.
- AFTER ERECTION OF STRUCTURES, TOUCHUP ALL WELDS, ABRASIONS AND NON-GALVANIZED SURFACES WITH A 95% ORGANIC ZINC RICH PAINT IN ACCORDANCE WITH ASTM 780.
- 8. ALL STEEL MATERIAL (EXPOSED TO WEATHER) SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT DIPPED GALVANIZED) COATINGS" ON IRONS AND STEEL PRODUCTS.
- 9. ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC COATING (HOT-DIP) ON IRON AND STEEL HARDWARE".
- 10. THE ENGINEER SHALL BE NOTIFIED OF ANY INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE MISFITTING OR NON CONFORMING MATERIALS OR CONDITIONS TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE ENGINEER REVIEW.
- 11. CONNECTION ANGLES SHALL HAVE A MINIMUM THICKNESS OF 1/4 INCHES.
- 12. STRUCTURAL CONNECTION BOLTS SHALL CONFORM TO ASTM A325. ALL BOLTS SHALL BE 3/4" DIAMETER MINIMUM AND SHALL HAVE A MINIMUM OF TWO BOLTS, UNLESS OTHERWISE ON THE DRAWINGS.
- 13. LOCK WASHER ARE NOT PERMITTED FOR A325 STEEL ASSEMBLIES.
- 14. SHOP CONNECTIONS SHALL BE WELDED OR HIGH STRENGTH BOLTED.
- 15. MILL BEARING ENDS OF COLUMNS, STIFFENERS, AND OTHER BEARING SURFACES TO TRANSFER LOAD OVER ENTIRE CROSS SECTION.
- 16. FABRICATE BEAMS WITH MILL CAMBER UP.
- 17. LEVEL AND PLUMB INDIVIDUAL MEMBERS OF THE STRUCTURE TO AN ACCURACY OF 1:500, BUT NOT TO EXCEED 1/4" IN THE FULL HEIGHT OF THE COLUMN.
- 18. COMMENCEMENT OF STRUCTURAL STEEL WORK WITHOUT NOTIFYING THE ENGINEER OF ANY DISCREPANCIES WILL BE CONSIDERED ACCEPTANCE OF PRECEDING WORK.
- 19. INSPECTION AND TESTING OF ALL WELDING AND HIGH STRENGTH BOLTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY.
- 20. FOUR COPIES OF ALL INSPECTION TEST REPORTS SHALL BE SUBMITTED TO THE ENGINEER WITHIN TEN (10) WORKING DAYS OF THE DATE OF INSPECTION.

<u>PAINT NOTE</u>	<u>S</u>				
PAINTING SCHEDU					BUILDING COF
1. <u>ANTENNA PAN</u>					PER
	IN WILLIAMS POLANE-B TO BE MATCHED WITH EXISTING TOWER S	TRUCTURE.			REVISED
2. <u>COAXIAL CABL</u>					
B. TWO C	OAT OF DTM BONDING PRIMER (2–5 MILS. OATS OF DTM ACRYLIC PRIMER/FINISH (2.5 TO BE FIELD MATCHED WITH EXISTING ST	5-5 MILS. DRY FINIS	Н)		DRAWINGS
EXAMINATION AND	PREPARATION:				N DRA
	Y PAINT IN SNOW, RAIN, FOG OR MIST OR . DO NOT APPLY PAINT TO DAMP OR WET		MIDITY		CONSTRUCTION
SURFACE SCH	SUBSTRATE CONDITIONS ARE READY TO RE	ENCEMENT OF WORK.			CONSTRUCTION
3. TEST SHOP A	N THAT MAY POTENTIALLY AFFECT PROPER PPLIED PRIMER FOR COMPATIBILITY WITH S				
	PARATION AND CLEANING PROCEDURE IN S		WITH		CAG
	JFACTURER'S INSTRUCTIONS FOR EACH SUI		CTION.		RTS DMD
	ING COATINGS THAT EXHIBIT LOOSE SURFA				9 RTS DMD
	PHOSPHATE AND BLEACH. RINSE WITH CLEA		Ν		/22/1 /31/1
CONTAMINATIO	RFACE SCHEDULED FOR PAINT FINISH: REM N BY STEAM OR HIGH-PRESSURE WATER. LVENT WASHING. APPLY ETCHING PRIMER I	REMOVE OXIDATION V			0 05
BEEN SHOP (FOREIGN SUB COMPLY WITH RECOMMENDA HAVE BEEN D	ALS: CLEAN UNGALVANIZED FERROUS META COATED; REMOVE OIL, GREASE, DIRT, LOOSI STANCES. USE SOLVENT OR MECHANICAL C THE STEEL STRUCTURES PAINTING COUNC TONS. TOUCH UP BARE AREAS AND SHOP AMAGED. WIRE BRUSH, CLEAN WITH SOLVE R, AND TOUCH UP WITH THE SAME PRIME	E MILL SCALE, AND (LEANING METHODS TH IL'S (SSPC) APPLIED PRIME COAT NTS RECOMMENDED E	DTHER HAT TS THAT BY PAINT	ENGINEER SEAL	NOR REPORT
SOLVENTS SO	SURFACES: CLEAN GALVANIZED SURFACES W SURFACE IS FREE OF OIL AND SURFACE T FROM GALVANIZED SHEET METAL FABRICA METHODS.	CONTAMINANTS. REMO	OVE	SIONAL SIONAL	A DEOLEVILLE
	ELS: REMOVE ALL OIL, DUST, GREASE, DIR ENSURE ADEQUATE ADHESION. PANELS MU E (MEK).			PROF	
	ES: REMOVE ALL OIL, DUST, GREASE. DIRT ENSURE ADEQUATE ADHESION.	, AND OTHER FOREIG	SN		at&t
CLEANING:	TE MATERIAL, WHICH MAY CONSTITUTE A FI		N		
CLOSED META	L CONTAINERS AND REMOVE DAILY FROM S		IN .	EMF	PRE
APPLICATION: 1. APPLY PRODU	ICTS IN ACCORDANCE WITH MANUFACTURER	'S INSTRUCTIONS.		tele	com
	Y FINISHES TO SURFACES THAT ARE NOT	DRY.		ju ju ju ju ju ju ju ju ju ju ju ju ju j	
	COAT TO UNIFORM FINISH. COAT OF PAINT SLIGHTLY DARKER THAN PI	RECEDING COAT UNLE	ESS	engineeri	σ
OTHERWISE AF 5. SAND METAL	PPROVED. LIGHTLY BETWEEN COATS TO ACHIEVE REQU	JIRED FINISH.			ax ord Road 405
	N SURFACES FREE OF LOOSE PARTICLES. PLYING NEXT COAT.	USE TACK CLOTH JU	JST	Centered on Solution	(203) 488-8587 Fax 63-2 North Branford R Branford, CT 06405 www.CantakEng.com
	D COAT TO DRY BEFORE NEXT COAT IS A	PPLIED.		(203) 48	(203) 48 63-2 No Branforc
COMPLETED WORK					
2. MATCH APPRC	EPARE 24" X 24" SAMPLE AREA FOR REVI	COVERAGE. REMOVE	REFINISH		ШZ
OR REPAINT V	WORK NOT IN COMPLIANCE WITH SPECIFIED	REQUIREMENTS.			TST
					┆╔╴╝
				MOBI Sommunications	
		RRU	SIZE (INCHES)		SC/C
			(L × W × D)		
	(E/P) RAYCAP (QTY)	RRUS-11	19.7 x 17 x 7.2	NIRELES WIRELES	
(2)		RRUS-32	27.2 x 12.1 x 7		L L
(2) ND DC POWER	(E) RAYCAP DC6-48-60-18-8F (2)	RRUS-32 B2	27.2 x 12.1 x 7		CT1145
POWER POWER	(P) RAYCAP DC6-48-60-0-8F (1)				ົບ
(2)		RRUS-32 B66	27.2 x 12.1 x 7		/15/18
ND DC POWER		B14-4478	14.9 x 13.1 x 7.3		NOTED 000.21
POWER POWER	_	RRUS-E2	20.4 x 18.5 x 7.5		TES, CATIONS
(2)				AND AN	ITENNA
	-				DULE
AND DC POWER	-				

Sheet No. <u>2</u> of <u>9</u>







2. NO PAINTING OF THE RRU OR SOLAR SHIELD IS ALLOWED.

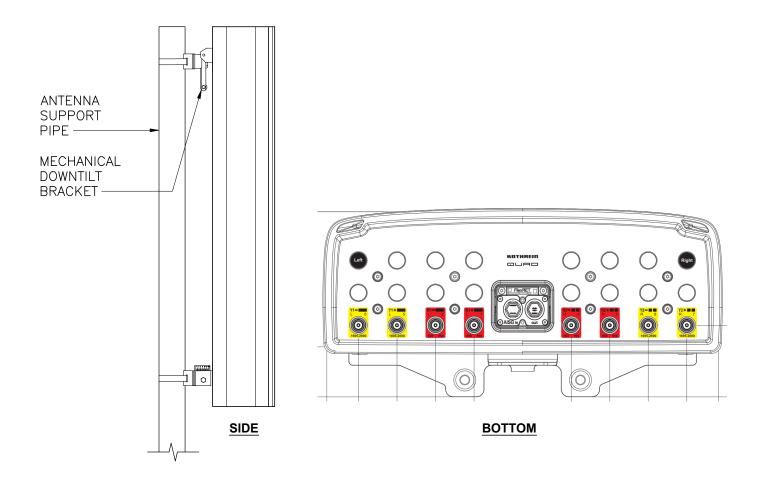




SURGE ARESSTOR				
EQUIPMENT	DIMENSIONS	WEIGHT		
MAKE: ANDREW MODEL: APTDC-BDFDM-DB	3.46"H x 3.46"W x 1.65"D	1.32 LBS.		
<u>NOTES:</u> 1. CONTRACTOR TO COORDINATE FINAL EQUIPMENT MODEL SELECTION WITH AT&T CONSTRUCTION MANAGER PRIOR TO ORDERING.				

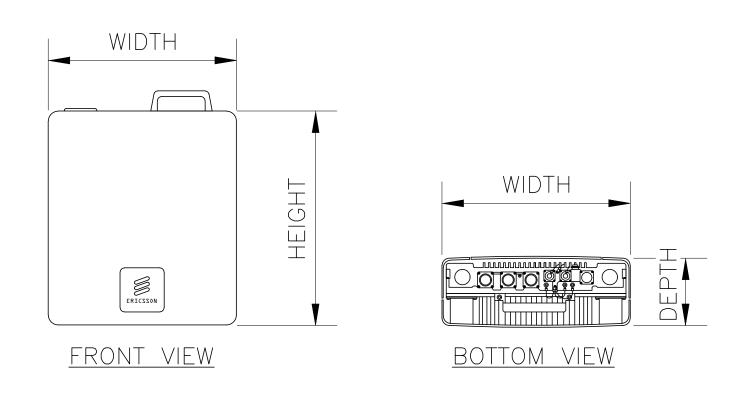


4 ANDREW APTDC-BDFDM-DB DETAIL C-3 NOT TO SCALE



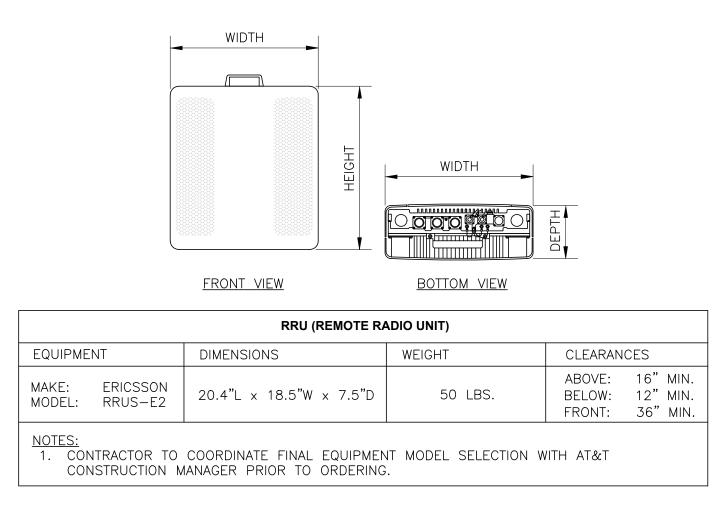
ALPHA/BETA/GAMMA ANTENNA			
EQUIPMENT	DIMENSIONS	WEIGHT	
MAKE: KATHREIN MODEL: 800–10965	78.7"L x 20"W x 6.9"D	108.6 LBS.	

2	PROPOSED ANTENNA DETAIL
C-3	NOT TO SCALE

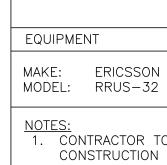


RRU (REMOTE RADIO UNIT)					
EQUIPMENT	DIMENSIONS	WEIGHT	CLEARANCES		
MAKE: ERICSSON MODEL: B14 4478	14.9"L x 13.1"W x 7.3"D	60 LBS.	ABOVE: 16" MIN. BELOW: 12" MIN. FRONT: 36" MIN.		
NOTES: 1. CONTRACTOR TO COORDINATE FINAL EQUIPMENT MODEL SELECTION WITH AT&T CONSTRUCTION MANAGER PRIOR TO ORDERING.					



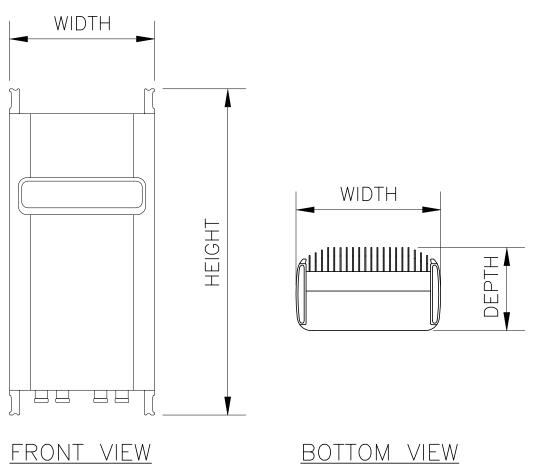








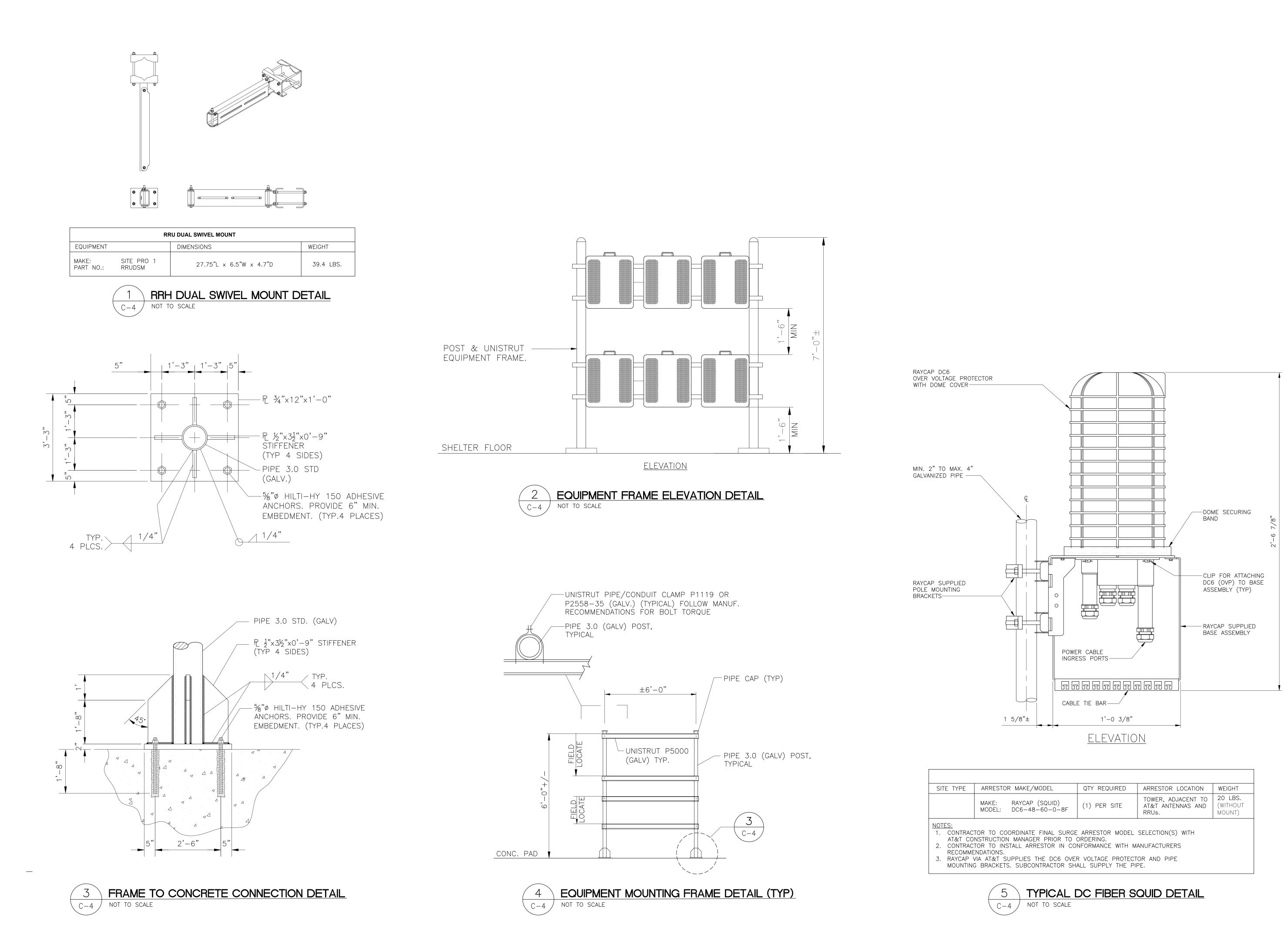




RRU (REMOTE RADIO UNIT)					
EQUIPME	NT	DIMENSIONS	WEIGHT	CLEARANCES	
MAKE: MODEL:	ERICSSON RRUS-32 B66	27.17"L x 12.05"W x 7.01"D	52.91 LBS.	ABOVE: 16" MIN. BELOW: 12" MIN. FRONT: 36" MIN.	
NOTES: 1. CONTRACTOR TO COORDINATE FINAL EQUIPMENT MODEL SELECTION WITH AT&T CONSTRUCTION MANAGER PRIOR TO ORDERING.					



PROFESSIONAL ENGINEER SEAL		And Construction And Construction And Construction And Construction 0 05/31/18 DMD CAG CONSTRUCTION DRAWINGS - REVISED PER BUILDING CODE REV. DATE DRAWIN BY CHK'D BY DESCRIPTION
c engineering	elecc	RE
AT&T MOBILITY	CT1145 - I TF 5C/6C/7C FIRSTNFT	99 CEDARWOOD LANE NEWINGTON, CT 06111
DATE: SCALE JOB N	03/15/ E: AS NOT NO. 18000.2	ED

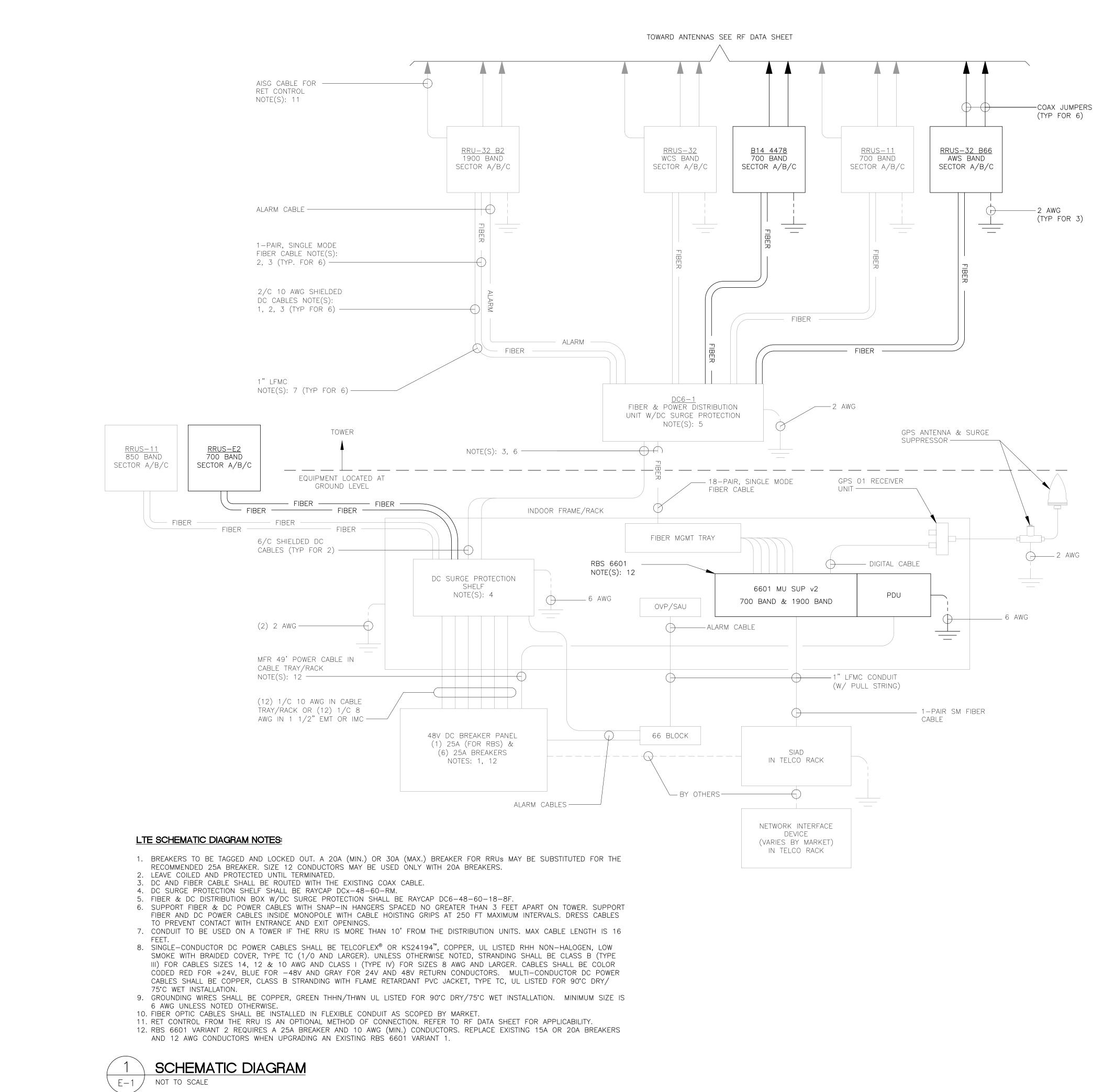


5	TYPICAL DC FIBER SQUID DETAIL	_
-4 /	NOT TO SCALE	

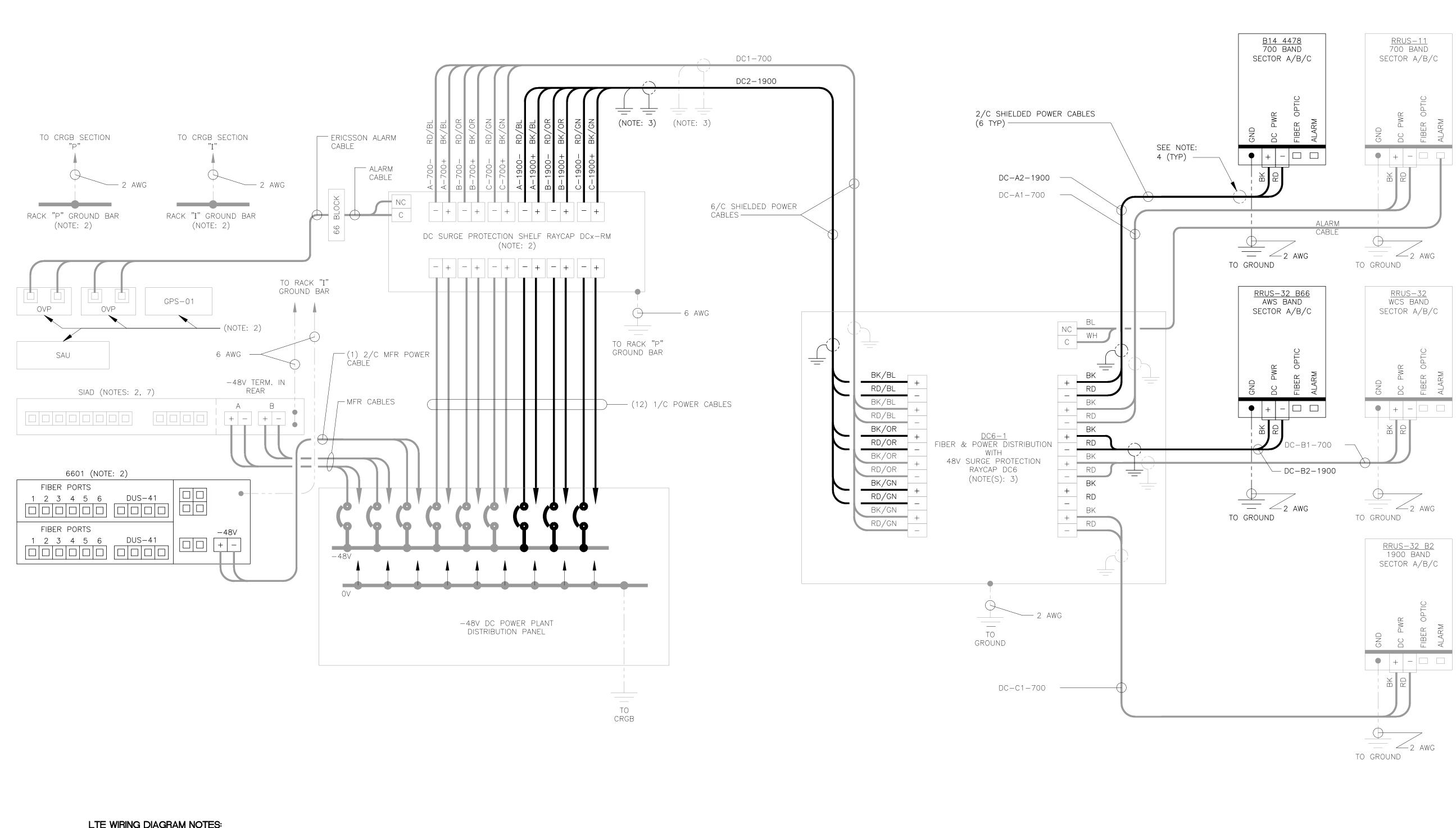
ARRESTOR MAKE/MODEL	QTY REQUIRED	ARRESTOR LOCATION	WEIGHT
MAKE: RAYCAP (SQUID) MODEL: DC6-48-60-0-8F	(1) PER SITE	TOWER, ADJACENT TO AT&T ANTENNAS AND RRUs.	20 LBS. (WITHOUT MOUNT)



Sheet No. 6 of 9







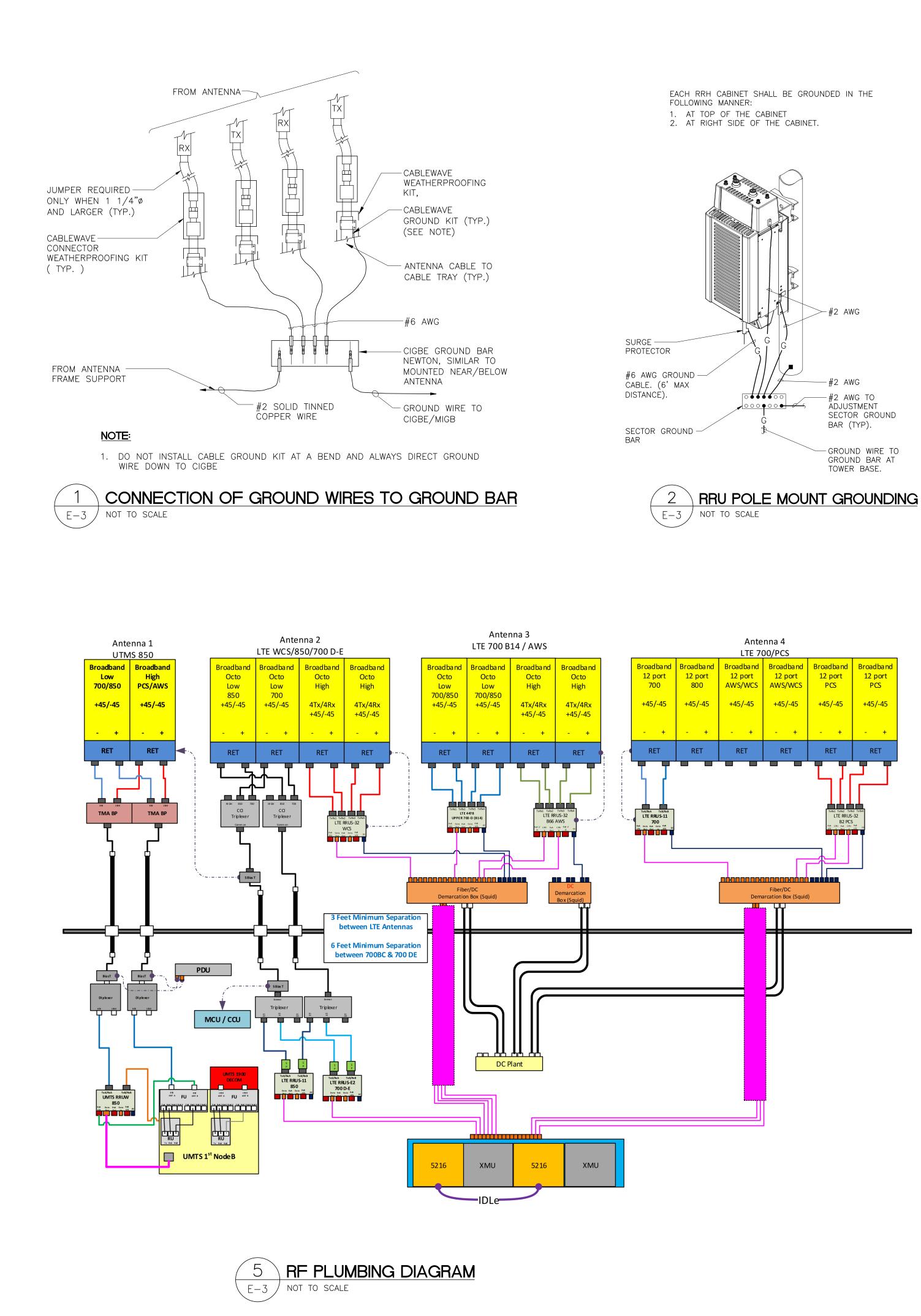
LTE WIRING DIAGRAM NOTES:

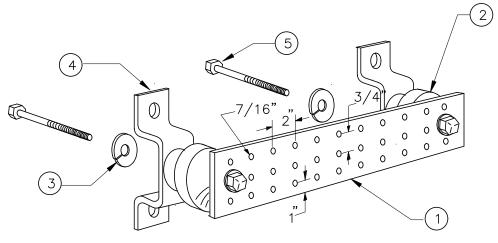
- 1. LABEL THE DC POWER CABLES AT BOTH ENDS OF EVERY WIRE AND IN ANY PULL BOX IF USED. LABEL SHALL BE DURABLE, SELF ADHESIVE, WRAPPED LONGITUDINALLY ALONG THE CABLE AND STATE THE SECTOR, FREQUENCY BAND AND POLARITY; I.E. "A-1900+". CABLE AND WIRE LABELS SHOWN ARE REPRESENTATIVE AND MAY BE MODIFIED AS DIRECTED BY AT&T.
- 2. INSTALL ON BASEBAND EQUIPMENT RACK.
- 3. THE BARE GROUND WIRE OF EACH MULTI-CONDUCTOR CABLE SHALL BE CONNECTED TO THE "P" GROUND BAR ON THE RACK. WHEN A SHIELDED CABLE IS USED, THE DRAIN WIRE ALSO SHALL BE CONNECTED TO THE "P" GROUND BAR.
- 4. CABLE GROUND WIRE AND SHIELD DRAIN WIRE TO BE LEFT UN-TERMINATED AT RRU AND DC POWER PLANT. 5. SEE LTE SCHEMATIC DIAGRAM DETAIL 1/E-1 FOR BREAKER RATING.

E-2 /

WIRING DIAGRAM NOT TO SCALE







LEGEND

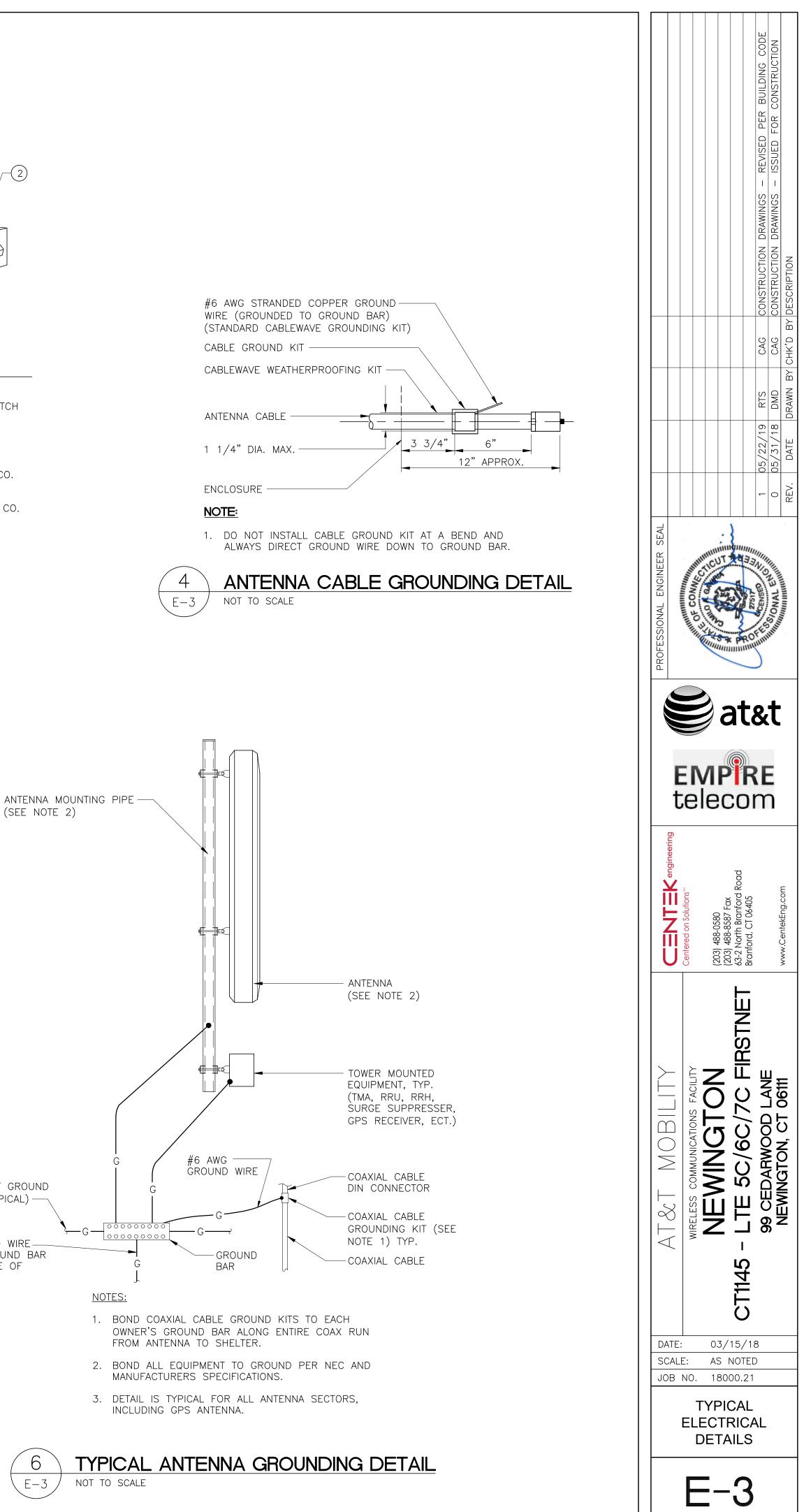
- 1. TINNED COPPER GROUND BAR, 1/4"x 4"x 20", NEWTON INSTRUMENT CO. HOLE CENTERS TO MATCH NEMA DOUBLE LUG .
- 2. INSULATORS, NEWTON INSTRUMENT CAT. NO. 2. 3061-4.
- 3. 3. 5/8" LOCK WASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015-8.
- 4. WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. 4. CAT NO. A-6056.
- 5. STAINLESS STEEL SECURITY SCREWS.



(SEE NOTE 2)

TO NEXT GROUND BAR (TYPICAL) —

GROUND WIRE TO GROUND BAR AT BASE OF TOWER



Sheet No. <u>9</u> of <u>9</u>