



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 17, 2019

Mark Roberts
QC Development
P.O. Box 916
Storrs, CT 06268

RE: **EM-CING-158-190429** – New Cingular Wireless PCS, LLC (AT&T) notice of intent to modify an existing telecommunications facility located at 20 Post Office Lane, Westport, Connecticut.

Dear Mr. Roberts:

The Connecticut Siting Council (Council) is in receipt of your correspondence of May 15, 2019 submitted in response to the Council's May 2, 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



file copy

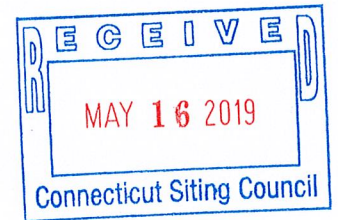
Mark Roberts

From: Mark Roberts
Sent: Wednesday, May 15, 2019 6:51 AM
To: Robidoux, Evan
Cc: CSC-DL Siting Council
Subject: RE: Council Incomplete Letter for EM-CING-158-190429-PostOfficeLn-Westport
Attachments: CT2103_A & E_ATT_LTE 4C,5C,RETRO_CD_050619_Rev 2.pdf

Hello – in response to your incompleteness letter referenced below, please find attached a revised set of CDs for your review. One hard copy set will be mailed today per your request.

Thanks

Mark Roberts
QC Development
860-670-9068



From: Robidoux, Evan <Evan.Robidoux@ct.gov>
Sent: Friday, May 3, 2019 3:25 PM
To: Mark Roberts <mark.roberts@qcdevelopment.net>
Cc: CSC-DL Siting Council <Siting.Council@ct.gov>
Subject: Council Incomplete Letter for EM-CING-158-190429-PostOfficeLn-Westport

Please see the attached correspondence.

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

PROJECT INFORMATION

SCOPE OF WORK: UNMANNED TELECOMMUNICATIONS FACILITY MODIFICATIONS
 SITE ADDRESS: 19-20 POST OFFICE LANE WESTPORT, CT 06880
 LATITUDE: 41° 07' 24" N
 LONGITUDE: 73° 18' 47" W
 JURISDICTION: NATIONAL, STATE & LOCAL CODES OR ORDINANCES
 CURRENT USE: TELECOMMUNICATIONS FACILITY
 PROPOSED USE: TELECOMMUNICATIONS FACILITY
 DESIGN GUIDELINE: LTE 4C, LTE 5C, RETROFIT
 S.O.W. NOTES: ARRANGE ANTENNA AND RADIO POSITIONS PER PLUMBING DIAGRAM.
 -REPLACE EXISTING HEX-PORT ANTENNA WITH OCTO-PORT ANTENNA
 -REPLACE EXISTING 700 BC RADIO WITH DUAL BAND RADIO SHARED WITH LTE 850
 -SWAP LTE PCS WITH DUAL BAND RADIO SHARED WITH LTE AWS
 -ADD (1) DC SQUID ONLY
 -ADD 2ND XMU AND ADD 6630 FOR 5G IN BTS CABINET
 -REMOVE EXISTING POWER PLANT BATTERY RACK AND STANDALONE CONVERTER SHELVES
 -INSTALL NETSURE 7100 POWER PLANT AND BATTERY RACK
 -RE-CABLE EXISTING EQUIPMENT TO PROPOSED POWER PLANT

SITE NUMBER: CT2103
SITE NAME: WESTPORT SOUTH

19-20 POST OFFICE LANE
 WESTPORT, CT 06880
 FAIRFIELD COUNTY

PROJECT: LTE 4C/5C & RETROFIT
 FA SITE NUMBER: 10035073

PACE ID: MRCTB033589/MRCTB033686/MRCTB033642
 STRUCTURE TYPE: MONOPOLE

DRAWING INDEX

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LOCUS MAP



DRIVING DIRECTIONS FROM 550 COCHITUATE ROAD, FRAMINGHAM, MA:
 1. HEAD NORTHEAST TOWARD LEGGATT MCCALL CONN, TURN LEFT ONTO LEGGATT MCCALL CONN
 2. CONTINUE ONTO BURR ST
 3. TURN LEFT ONTO COCHITUATE RD
 4. USE THE RIGHT LANE TO TAKE THE RAMP TO I-90 E/MASSPIKE W/SPRINGFIELD/BOSTON
 5. KEEP LEFT AT THE FORK, FOLLOW SIGNS FOR INTERSTATE 90 W/MASSACHUSETTS TURNPIKE/WORCESTER/SPRINGFIELD AND MERGE ONTO I-90 W/MASSACHUSETTS TURNPIKE
 6. MERGE ONTO I-90 W/MASSACHUSETTS TURNPIKE
 7. USE THE RIGHT 2 LANES TO TAKE EXIT 9 FOR I-84 TOWARD US-20/HARTFORD/NEW YORK CITY
 8. CONTINUE ONTO I-84
 9. USE THE LEFT 2 LANES TO TAKE EXIT 57 FOR CT-15 S TOWARD I-91 S/CHARTER OAK BRIDGE/N.Y.CITY
 10. CONTINUE ONTO CT-15 S
 11. CONTINUE ONTO CT-15 S/US-5 S
 12. TAKE EXIT 86 TO MERGE ONTO I-91 S TOWARD NEW HAVEN/NEW YORK CITY
 13. TAKE EXIT 17 TO MERGE ONTO CT-15 S/WILBUR CROSS PKWY
 14. CONTINUE TO FOLLOW CT-15 S
 15. TAKE EXIT 52 FOR STATE ROUTE 108 S/STATE ROUTE 8 S TOWARD BRIDGEPORT
 16. KEEP LEFT, FOLLOW SIGNS FOR CT-8 S/BRIDGEPORT AND MERGE ONTO CT-8 S
 17. TAKE THE INTERSTATE 95 S EXIT TOWARD N.Y. CITY, MERGE ONTO I-95 S
 18. TAKE EXIT 19 TOWARD US-1/S PORT
 19. CONTINUE ONTO PEASE AVE
 20. SLIGHT RIGHT AFTER 7-ELEVEN (ON THE RIGHT)
 21. TURN LEFT ONTO KINGS HWY W
 22. CONTINUE ONTO GREENS FARMS RD
 23. TURN LEFT ONTO NEW CREEK RD
 24. TURN LEFT ONTO POST OFFICE LN

GENERAL NOTES

- THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF AT&T. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.
- THE FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY ACCESSED BY TRAINED TECHNICIANS FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE DOES NOT REQUIRE ANY WATER OR SANITARY SEWER SERVICE. THE FACILITY IS NOT GOVERNED BY REGULATIONS REQUIRING PUBLIC ACCESS PER ADA REQUIREMENTS.
- CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE AT&T REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.



CONNECTICUT



CALL BEFORE YOU DIG



CALL TOLL FREE: 800-922-4455

UNDERGROUND SERVICE ALERT



SITE NUMBER: CT2103
 SITE NAME: WESTPORT SOUTH
 19-20 POST OFFICE LANE
 WESTPORT, CT 06880
 FAIRFIELD COUNTY



550 COCHITUATE ROAD, SUITE 13,
 FRAMINGHAM, MA 01701-4681

NO.	DATE	REVISIONS	BY	CHK
0	03/28/19	ISSUED FOR REVIEW	AAB	MRC
1	04/22/19	ISSUED FOR CONSTRUCTION	AAB	MRC
2	05/06/19	REVISED	AAB	MRC

TITLE SHEET

SHEET NO. T-1

GENERAL NOTES

1. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.

2. THE ARCHITECT/ENGINEER HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. THE CONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.

3. THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE LESEE/LICENSEE REPRESENTATIVE OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK. IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED IN WRITING OTHERWISE.

4. THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND ALL OTHER MATERIALS AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN.

5. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS OR PERFORMING WORK TO FAMILIARIZE HIMSELF WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

6. THE CONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS / CONTRACT DOCUMENTS.

7. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S / VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.

8. THE CONTRACTOR SHALL PROVIDE A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE UPDATED WITH THE LATEST REVISIONS AND ADDENDUMS OR CLARIFICATIONS AVAILABLE FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.

9. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY CONSTRUCTION CONTROL SURVEYS, ESTABLISHING AND MAINTAINING ALL LINES AND GRADES REQUIRED TO CONSTRUCT ALL IMPROVEMENTS AS SHOWN HEREIN.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY.

12. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC. DURING CONSTRUCTION. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.

13. THE CONTRACTOR SHALL KEEP THE GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.

14. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.

15. THE CONTRACTOR SHALL NOTIFY THE LESEE/LICENSEE REPRESENTATIVE WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNTIL CONFLICT IS RESOLVED BY THE LESEE/LICENSEE REPRESENTATIVE.

16. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.

17. ALL UNDERGROUND UTILITY INFORMATION WAS DETERMINED FROM SURFACE INVESTIGATIONS AND EXISTING PLANS OF RECORD. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO ANY SITE WORK. CALL THE FOLLOWING FOR ALL PRE-CONSTRUCTION NOTIFICATION 72-HOURS PRIOR TO ANY EXCAVATION ACTIVITY: DIG SAFE SYSTEM (MA, ME, NH, RI, VT): 1-888-344-7233 CALL BEFORE YOU DIG (CT): 1-800-922-4455

18. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY CONSTRUCTION CONTROL SURVEYS AND MAINTAINING ALL LINES AND GRADES REQUIRED TO CONSTRUCT ALL IMPROVEMENTS SHOWN HEREIN.

19. ALL DIMENSIONS SHOWN THUS ± ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS WHICH EFFECT THE CONTRACTORS WORK. CONTRACTOR TO VERIFY ALL DIMENSIONS WITH PROJECT OWNER PRIOR TO CONSTRUCTION.

20. NORTH ARROW SHOWN ON PLANS REFERS TO APPROXIMATE TRUE NORTH. PRIOR TO THE START OF CONSTRUCTION, ORDERING OR FABRICATING OF ANTENNA MOUNTS, CONTRACTOR SHALL CONSULT WITH PROJECT OWNER'S RF ENGINEER AND FIELD VERIFY ALL ANTENNA SECTOR LOCATIONS AND ANTENNA AZIMUTHS.

21. THE CONTRACTOR AND OR HIS SUB CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY.

22. ANTENNA INSTALLATION SHALL BE CONDUCTED BY FIELD CREWS EXPERIENCED IN THE ASSEMBLY AND ERECTION OF RADIO ANTENNAS, TRANSMISSION LINES AND SUPPORT STRUCTURES.

23. COAXIAL CABLE CONNECTORS AND TRANSMITTER EQUIPMENT SHALL BE PROVIDED BY THE PROJECT OWNER AND IS NOT INCLUDED IN THESE CONSTRUCTION DOCUMENTS. A SCHEDULE OF PROJECT OWNER SUPPLIED MATERIALS IS ATTACHED TO THE BID DOCUMENTS (SEE EXHIBIT 3). ALL OTHER HARDWARE TO BE PROVIDED BY THE CONTRACTOR. CONNECTION HARDWARE SHALL BE STAINLESS STEEL.

24. WHEN "PAINT TO MATCH" IS SPECIFIED FOR ANTENNA CONCEALMENT, PAINT PRODUCT FOR ANTENNA RADOME SHALL BE SHERWIN WILLIAMS COROTHANE II. SURFACE PREPARATION AND APPLICATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND PROJECT OWNER'S GUIDELINE'S.

25. COORDINATION, LAYOUT, AND FURNISHING OF CONDUIT, CABLE AND ALL APPURTENANCES REQUIRED FOR PROPER INSTALLATION OF ELECTRICAL AND TELECOMMUNICATION SERVICE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

26. ALL UTILITY WORK SHALL BE IN ACCORDANCE WITH LOCAL UTILITY COMPANY REQUIREMENTS AND SPECIFICATIONS.

27. ALL (E)ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR PIER DRILLING AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW.

28. ALL (E)INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF UTILITY COMPANY ENGINEERING. THE AREAS OF THE PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE EQUIPMENT, DRIVEWAY OR

29. GRAVEL, SHALL BE GRADED TO A UNIFORM SLOPE, FERTILIZED, SEEDED AND COVERED WITH MULCH UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN SOIL EROSION AND SEDIMENTATION CONTROLS AT ALL TIMES

30. DURING CONSTRUCTION. PER FCC MANDATE, ENHANCED EMERGENCY (E911) SERVICE IS REQUIRED TO MEET NATIONWIDE STANDARDS

31. FOR WIRELESS COMMUNICATIONS SYSTEMS. PROJECT OWNER'S IMPLEMENTATION REQUIRES DEPLOYMENT OF EQUIPMENT AND ANTENNAS GENERALLY DEPICTED ON THIS PLAN, ATTACHED TO OR MOUNTED IN CLOSE PROXIMITY TO THE BTS RADIO CABINETS. PROJECT OWNER RESERVES THE RIGHT TO MAKE REASONABLE MODIFICATIONS TO E911 EQUIPMENT AND LOCATION AS TECHNOLOGY EVOLVES TO MEET REQUIRED SPECIFICATIONS.

32. SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:

AMERICAN CONCRETE INSTITUTE (ACI) 318; BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE;

AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)

MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION;

TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-G, STRUCTURAL STANDARDS FOR STEEL

ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES; REFER TO ELECTRICAL DRAWINGS FOR SPECIFIC ELECTRICAL STANDARDS.

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

APPLICABLE BUILDING CODES:
SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

BUILDING CODE:

2015 INTERNATIONAL BUILDING CODE
2018 CT STATE BUILDING CODE (CSBC)
ELECTRICAL CODE: NEC 2017
NFPA 780 2014

ELECTRICAL AND GROUNDING NOTES

1. ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.

2. ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER SPECIFICATION REQUIREMENTS.

3. THE ELECTRICAL WORK INCLUDES ALL LABOR AND MATERIAL DESCRIBED BY DRAWINGS AND SPECIFICATION INCLUDING INCIDENTAL WORK TO PROVIDE COMPLETE OPERATING AND APPROVED ELECTRICAL SYSTEM.

4. GENERAL CONTRACTOR SHALL PAY FEES FOR PERMITS, AND IS RESPONSIBLE FOR OBTAINING SAID PERMITS AND COORDINATION OF INSPECTIONS.

5. ELECTRICAL AND TELCO WIRING OUTSIDE A BUILDING AND EXPOSED TO WEATHER SHALL BE IN WATER TIGHT GALVANIZED RIGID STEEL CONDUITS OR SCHEDULE 80 PVC (AS PERMITTED BY CODE) AND WHERE REQUIRED IN LIQUID TIGHT FLEXIBLE METAL OR NONMETALLIC CONDUITS.

6. BURIED CONDUIT SHALL BE SCHEDULE 40 PVC.

7. ELECTRICAL WIRING SHALL BE COPPER WITH TYPE XHHW, THWN, OR THHN INSULATION.

8. RUN ELECTRICAL CONDUIT OR CABLE BETWEEN ELECTRICAL UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE PPC AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPE. COORDINATE INSTALLATION WITH UTILITY COMPANY.

9. RUN TELCO CONDUIT OR CABLE BETWEEN TELEPHONE UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE TELCO CABINET AND BTS CABINET AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPE AND GREENLEE CONDUIT MEASURING TAPE IN EACH INSTALLED TELCO CONDUIT.

10. WHERE CONDUIT BETWEEN BTS AND PROJECT OWNER CELL SITE PPC AND BETWEEN BTS AND PROJECT OWNER CELL SITE TELCO SERVICE CABINET ARE UNDERGROUND USE PVC, SCHEDULE 40 CONDUIT. ABOVE THE GROUND PORTION OF THESE CONDUITS SHALL BE PVC CONDUIT.

11. ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NEMA 3R ENCLOSURE.

12. PPC SUPPLIED BY PROJECT OWNER.

13. GROUNDING SHALL COMPLY WITH NEC ART. 250.

14. GROUND COAXIAL CABLE SHIELDS MINIMUM AT BOTH ENDS USING MANUFACTURERS COAX CABLE GROUNDING KITS SUPPLIED BY PROJECT OWNER.

15. USE #6 COPPER STRANDED WIRE WITH GREEN COLOR INSULATION FOR ABOVE GRADE GROUNDING (UNLESS OTHERWISE SPECIFIED) AND #2 SOLID TINNED BARE COPPER WIRE FOR BELOW GRADE GROUNDING AS INDICATED ON THE DRAWING.

16. ALL GROUND CONNECTIONS TO BE BURNDY HYGROUND COMPRESSION TYPE CONNECTORS OR CADWELD EXOTHERMIC WELD. DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.

17. ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NEVER BE BENT AT RIGHT ANGLE. ALWAYS MAKE AT LEAST 12" RADIUS BENDS. #6 WIRE CAN BE BENT AT 6" RADIUS WHEN NECESSARY. BOND ANY METAL OBJECTS WITHIN 6 FEET OF PROJECT OWNER EQUIPMENT OR CABINET TO MASTER GROUND BAR OR GROUNDING RING.

18. CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.

19. BOND ANTENNA MOUNTING BRACKETS, COAXIAL CABLE GROUND KITS, AND ALNA TO EGB PLACED NEAR THE ANTENNA LOCATION.

20. APPLY OXIDE INHIBITING COMPOUND TO ALL COMPRESSION TYPE GROUND CONNECTIONS.

21. CONTRACTOR SHALL PROVIDE AND INSTALL OMNI DIRECTIONAL ELECTRONIC MARKER SYSTEM (EMS) BALLS OVER EACH GROUND ROD AND BONDING POINT BETWEEN EXISTING TOWER/ (E) MONOPOLE GROUNDING RING AND EQUIPMENT GROUNDING RING.

22. CONTRACTOR SHALL TEST COMPLETED GROUND SYSTEM AND RECORD RESULTS FOR PROJECT CLOSE-OUT DOCUMENTATION. 5 OHMS MAXIMUM RESISTANCE REQUIRED.

23. CONTRACTOR SHALL CONDUCT ANTENNA, COAX, AND LNA RETURN-LOSS AND DISTANCE- TO-FAULT MEASUREMENTS (SWEEP TESTS) AND RECORD RESULTS FOR PROJECT CLOSE OUT.



ABBREVIATIONS

AGL	ABOVE GRADE LEVEL	G.C.	GENERAL CONTRACTOR	RF	RADIO FREQUENCY
AWG	AMERICAN WIRE GAUGE	MGB	MASTER GROUND BUS		
BCW	BARE COPPER WIRE	MIN	MINIMUM	TBD	TO BE DETERMINED
BTS	BASE TRANSCEIVER STATION	(P)	PROPOSED/NEW	TBR	TO BE REMOVED
(E)	EXISTING	N.T.S.	NOT TO SCALE	TBRR	TO BE REMOVED AND REPLACED
EG	EQUIPMENT GROUND	REF	REFERENCE		
EGR	EQUIPMENT GROUND RING	REQ	REQUIRED	TYP	TYPICAL
(F)	FUTURE				



SITE NUMBER: CT2103
SITE NAME: WESTPORT SOUTH
19-20 POST OFFICE LANE
WESTPORT, CT 06880
FAIRFIELD COUNTY



550 COCHITUATE ROAD, SUITE 13,
FRAMINGHAM, MA 01701-4681

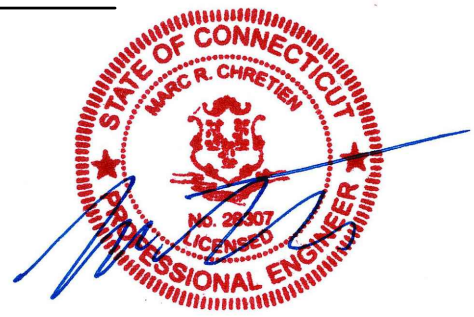
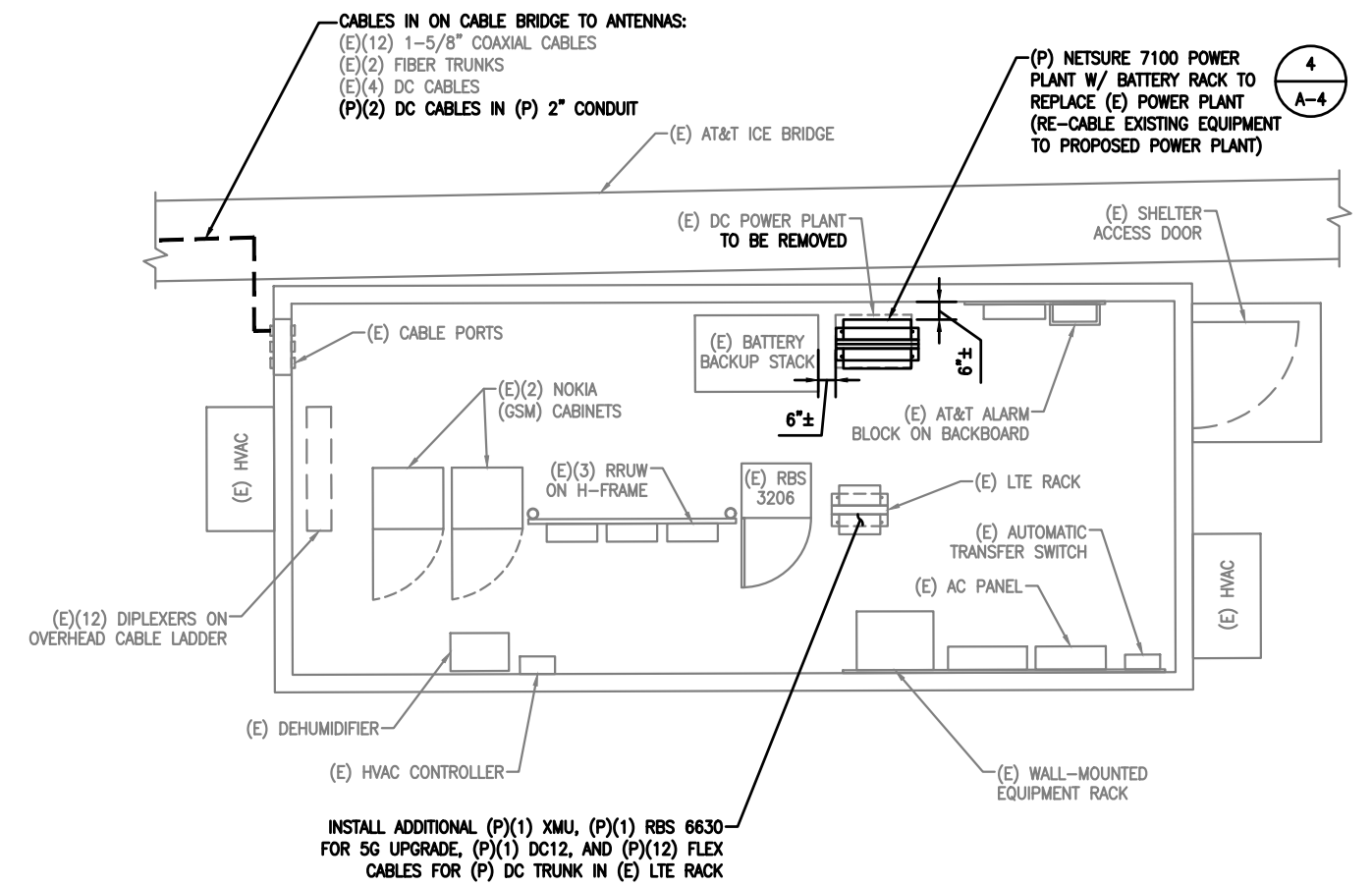
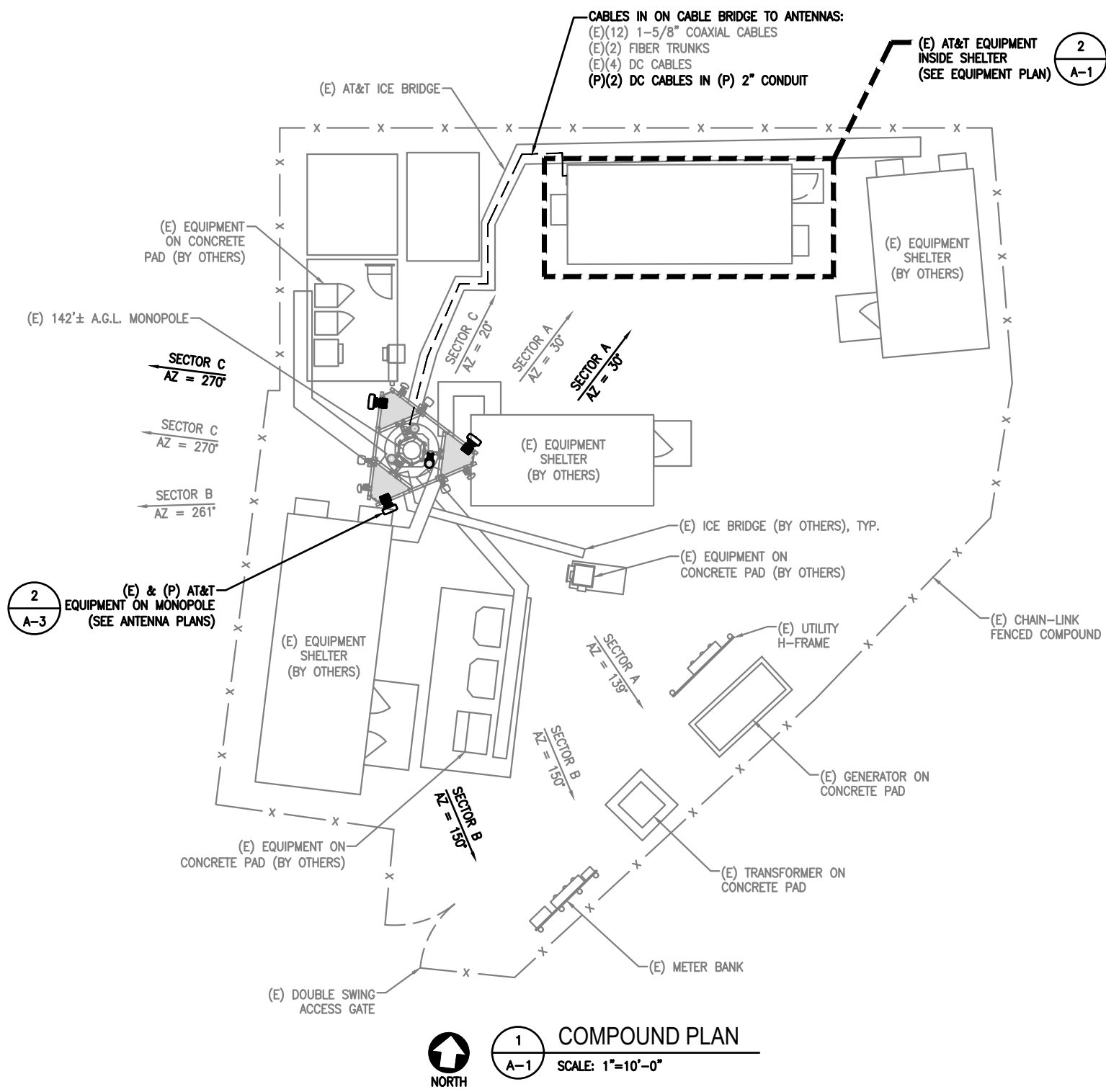
NO.	DATE	REVISIONS	BY	CHK
0	03/28/19	ISSUED FOR REVIEW	AAB	MRC
1	04/22/19	ISSUED FOR CONSTRUCTION	AAB	MRC
2	05/06/19	REVISED	AAB	MRC

GENERAL NOTES

SHEET NO.

GN-1

HALF SIZE PRINT
THIS DRAWING IS SCALEABLE
AT HALF THE NOTED SCALE



EG ADVANCED
ENGINEERING GROUP, P.C.
Civil Engineering - Site Development - Surveying - Telecommunications
500 North Broadway East Providence, RI 02914
Phone: (401) 354-2403 Fax: (401) 633-6354

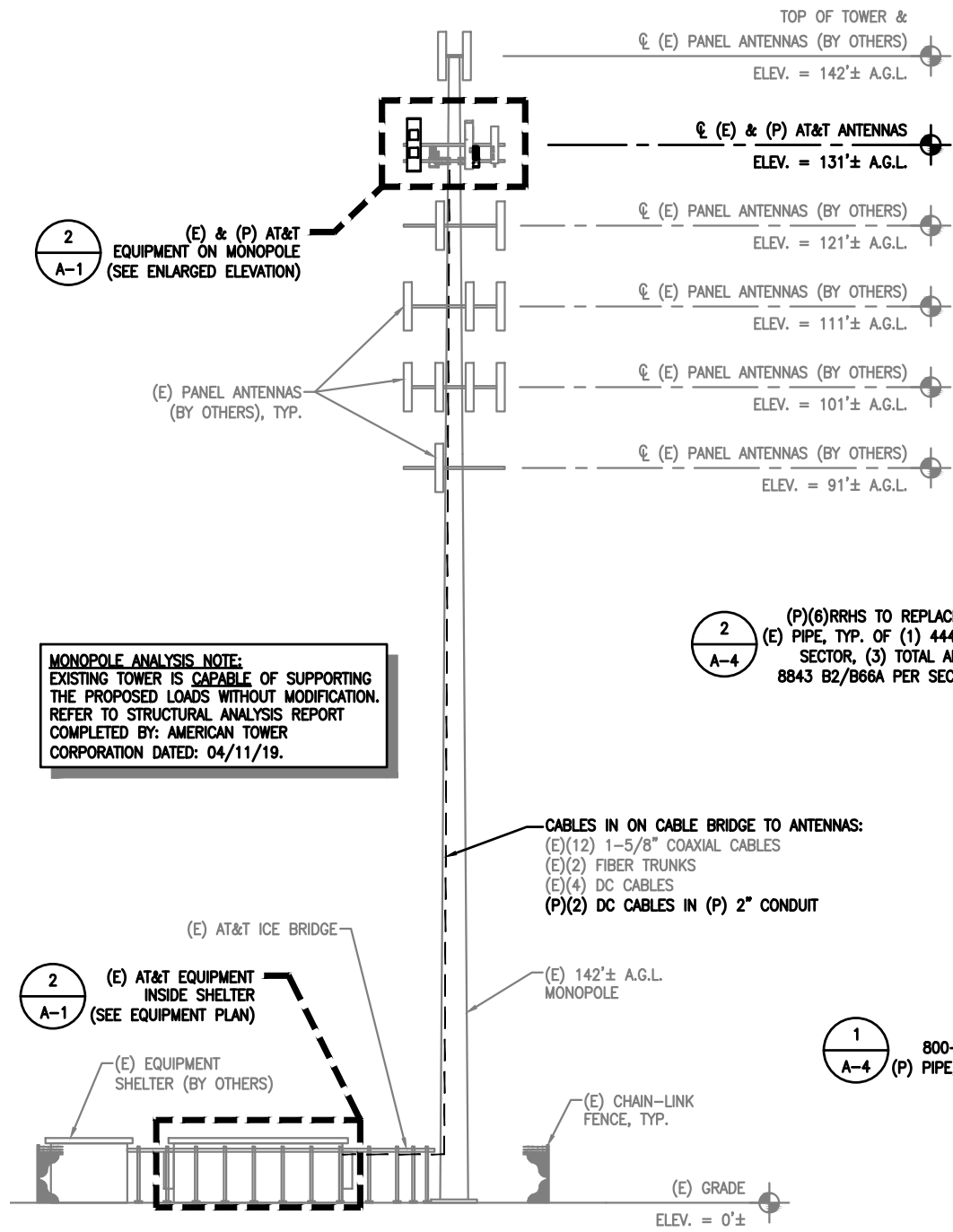
SAI SAI COMMUNICATIONS
12 INDUSTRIAL WAY
SALEM, NH 03079

SITE NUMBER: CT2103
SITE NAME: WESTPORT SOUTH
19-20 POST OFFICE LANE
WESTPORT, CT 06880
FAIRFIELD COUNTY

at&t
550 COCHITUATE ROAD, SUITE 13,
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COMPOUND AND EQUIPMENT PLANS
SHEET NO. **A-1**



2
A-1 (E) & (P) AT&T EQUIPMENT ON MONOPOLE (SEE ENLARGED ELEVATION)

MONOPOLE ANALYSIS NOTE:
EXISTING TOWER IS CAPABLE OF SUPPORTING THE PROPOSED LOADS WITHOUT MODIFICATION. REFER TO STRUCTURAL ANALYSIS REPORT COMPLETED BY: AMERICAN TOWER CORPORATION DATED: 04/11/19.

2
A-1 (E) AT&T EQUIPMENT INSIDE SHELTER (SEE EQUIPMENT PLAN)

1 ELEVATION
A-2 SCALE: 3/32" = 1'-0"

STRUCTURAL NOTE:
NO ADDITIONAL MOUNT REINFORCEMENT NECESSARY PER MOUNT ANALYSIS BY B+T GROUP, DATED 03/22/2019.

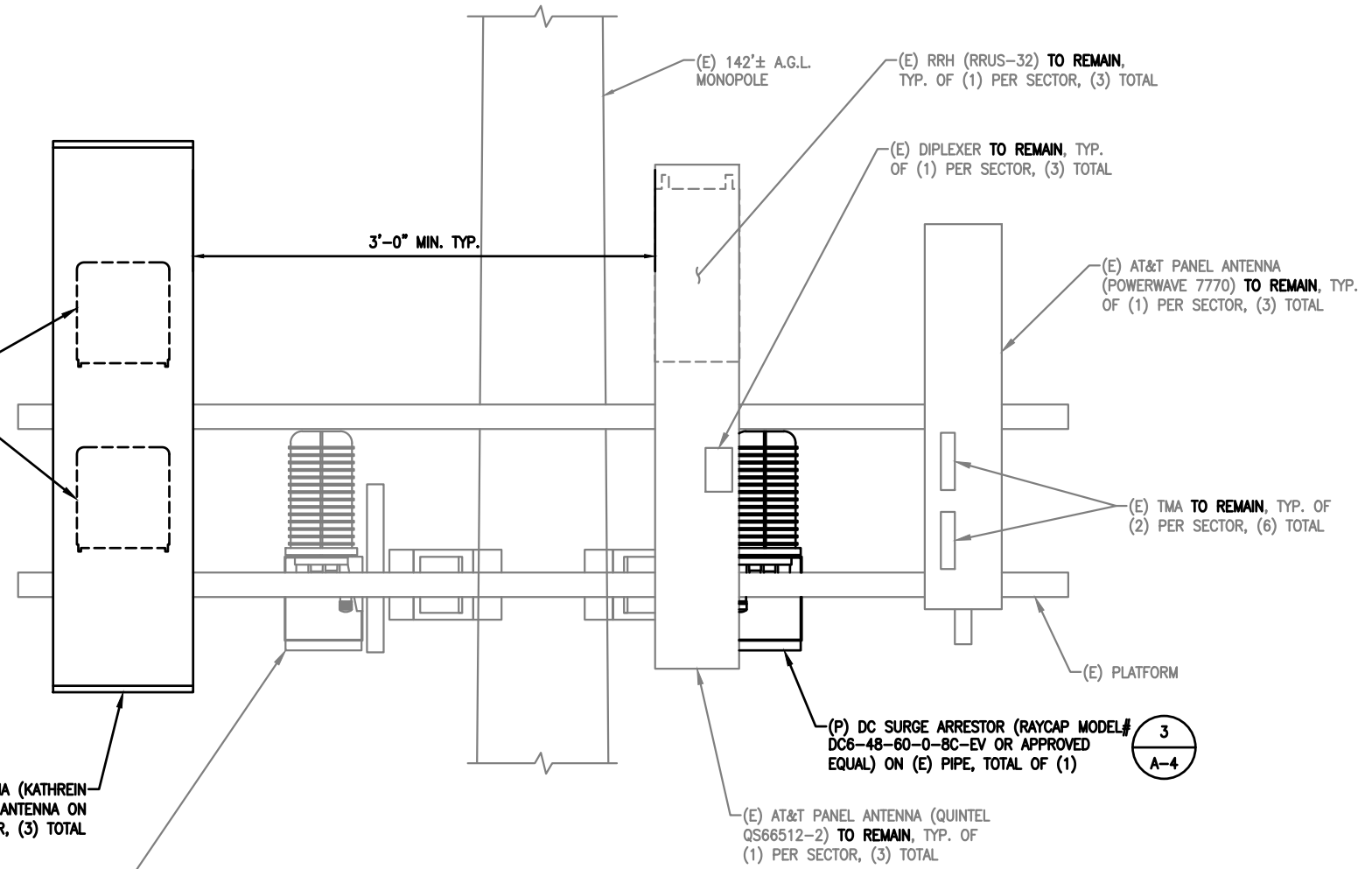
***NOTE:**
EXISTING ANTENNAS TO BE RELOCATED TO MAINTAIN A MINIMUM OF 3'-0" SEPARATION BETWEEN ALL LTE ANTENNAS. A MINIMUM OF 6'-0" SEPARATION BETWEEN 700BC AND 700DE ANTENNAS.

2
A-4 (P)(6)RRHS TO REPLACE (E) RRHS ON (E) PIPE, TYP. OF (1) 4449 B5/B12 PER SECTOR, (3) TOTAL AND TYP. OF (1) 8843 B2/B66A PER SECTOR, (3) TOTAL

1
A-4 (P) AT&T PANEL ANTENNA (KATHREIN 800-10965) TO REPLACE (E) ANTENNA ON (P) PIPE, TYP. OF (1) PER SECTOR, (3) TOTAL

(E) DC/FIBER SURGE ARRESTOR, (2) TOTAL

2 ENLARGED ANTENNA ELEVATION
A-2 SCALE: 1" = 1'-0"

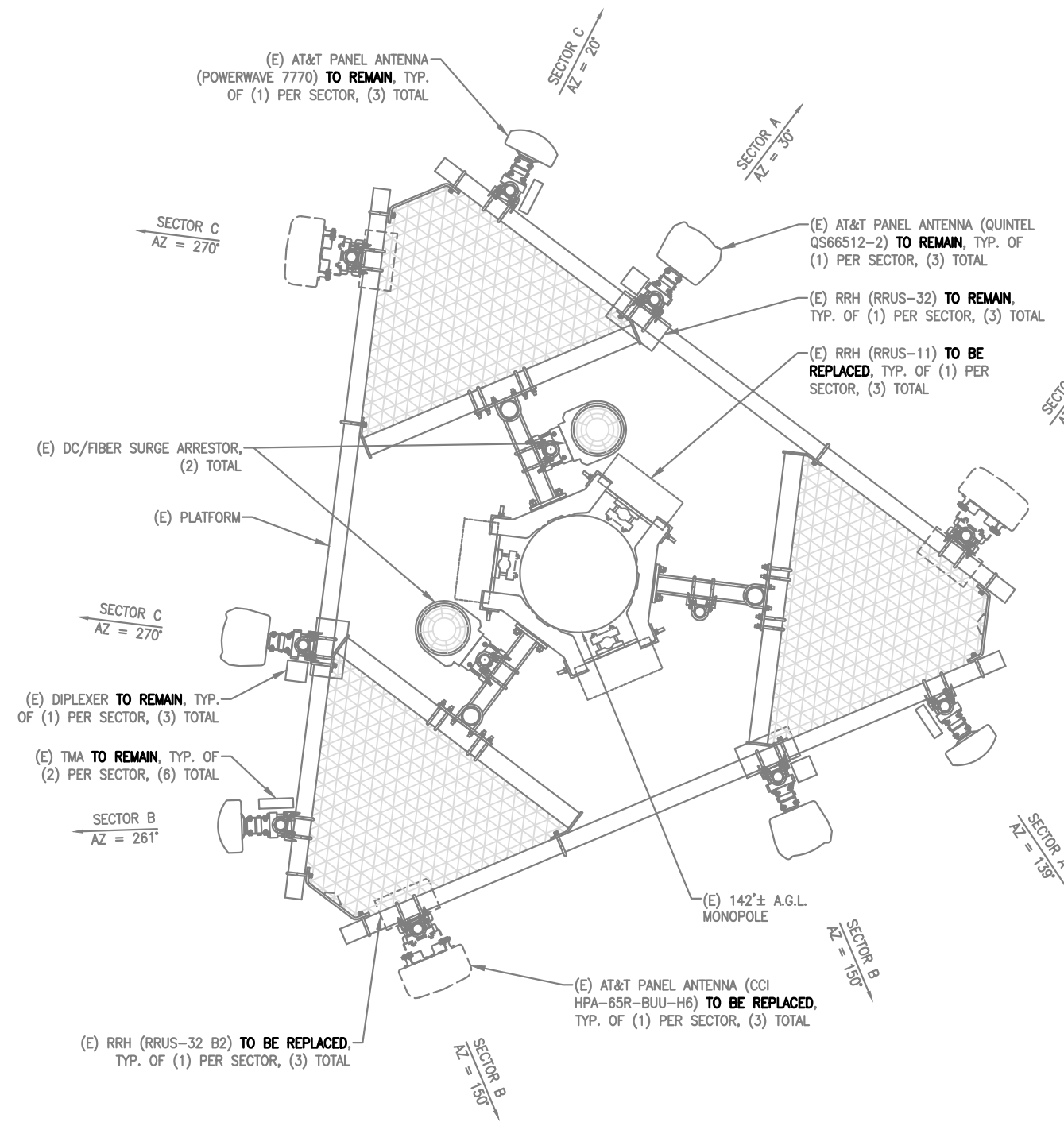


3
A-4 (P) DC SURGE ARRESTOR (RAYCAP MODEL# DC6-48-60-0-8C-EV OR APPROVED EQUAL) ON (E) PIPE, TOTAL OF (1)



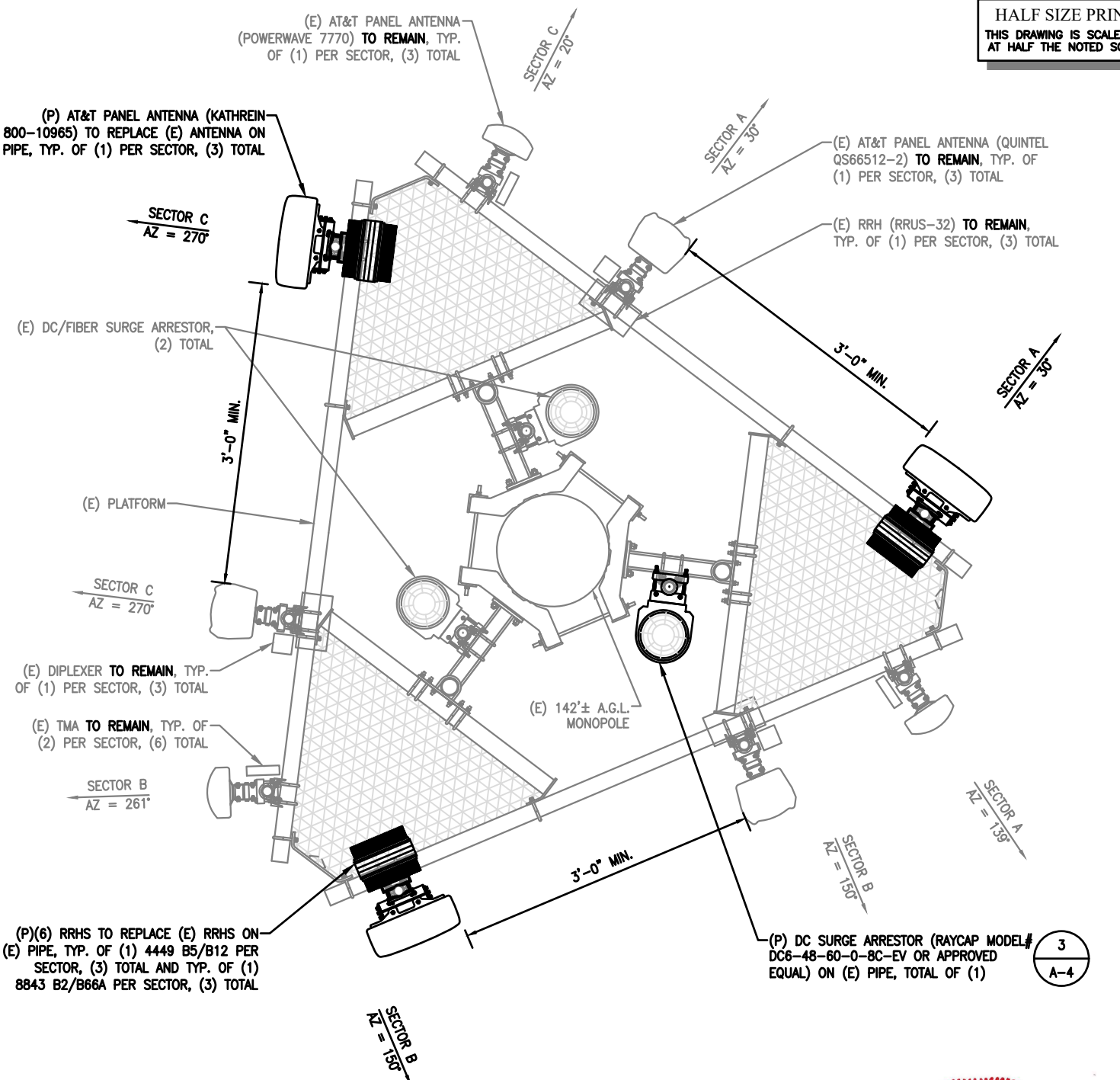
NO.	DATE	REVISIONS	BY	CHK
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2	05/06/19	REVISED	AAB	MRC

HALF SIZE PRINT
THIS DRAWING IS SCALEABLE
AT HALF THE NOTED SCALE



1
A-4

(P) AT&T PANEL ANTENNA (KATHREIN 800-10965) TO REPLACE (E) ANTENNA ON (P) PIPE, TYP. OF (1) PER SECTOR, (3) TOTAL



2
A-4

(P)(6) RRHS TO REPLACE (E) RRHS ON (E) PIPE, TYP. OF (1) 4449 B5/B12 PER SECTOR, (3) TOTAL AND TYP. OF (1) 8843 B2/B66A PER SECTOR, (3) TOTAL

3
A-4

(P) DC SURGE ARRESTOR (RAYCAP MODEL# DC6-48-60-0-8C-EV OR APPROVED EQUAL) ON (E) PIPE, TOTAL OF (1)



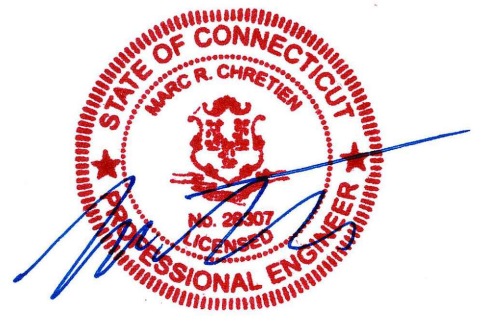
1 EXISTING ANTENNA PLAN
SCALE: 3/4" = 1'-0"

STRUCTURAL NOTE:
NO ADDITIONAL MOUNT REINFORCEMENT NECESSARY PER MOUNT ANALYSIS BY B+T GROUP, DATED 03/22/2019.

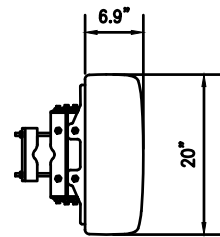
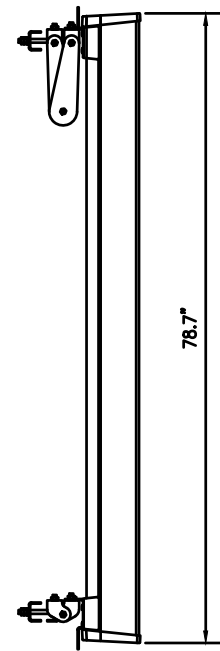
***NOTE:**
EXISTING ANTENNAS TO BE RELOCATED TO MAINTAIN A MINIMUM OF 3'-0" SEPARATION BETWEEN ALL LTE ANTENNAS. A MINIMUM OF 6'-0" SEPARATION BETWEEN 700BC AND 700DE ANTENNAS.



2 PROPOSED ANTENNA PLAN
SCALE: 3/4" = 1'-0"

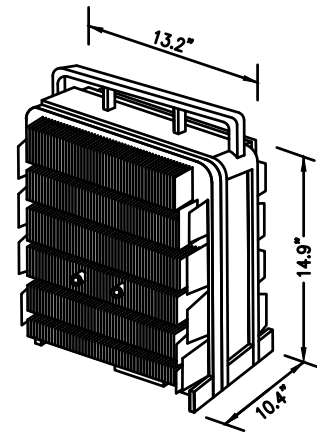


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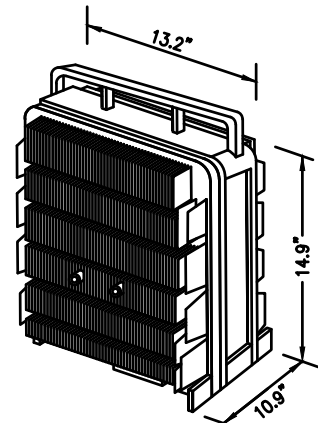


800-10965
 MANUFACTURER: KATHREIN
 DIMENSIONS: (HxWxD) 78.7"x20"x6.9"
 WEIGHT: 108.6 LBS.

1 ANTENNA DETAIL
 A-4 SCALE: N.T.S.



RRUS-4449 B5/B12
 MANUFACTURER: ERICSSON
 DIMENSIONS (HxWxD): 14.9"x13.2"x10.4"
 WEIGHT: 74 LBS

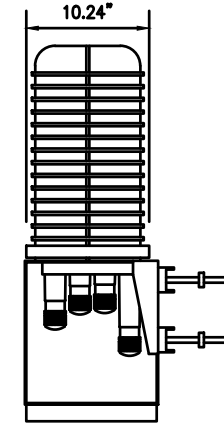


RRUS-8843 B2/B66A
 MANUFACTURER: ERICSSON
 DIMENSIONS (HxWxD): 14.9"x13.2"x10.9"
 WEIGHT: 72 LBS

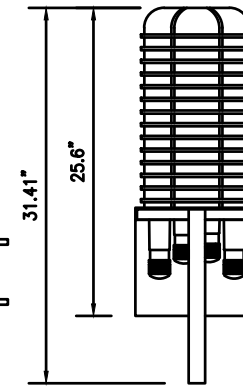
2 RRH DETAILS
 A-4 SCALE: N.T.S.

RAYCAP DC6-48-60-0-8C-EV
 NUMBER OF RADIOS PROTECTED:
 SUPPRESSION CONNECTION METHOD:
 #2-#14 AWG COPPER, #2-#12
 ENVIRONMENTAL RATING:
 WEIGHT:

6 COMPRESSION LUG,
 ALUMINUM
 IP 68, 7M 72HRS
 26.2 LBS



SIDE



FRONT

3 SURGE ARRESTOR DETAIL
 A-4 SCALE: N.T.S.



NetSure 7100
 MANUFACTURER: EMERSON - VERTIV
 DIMENSIONS: (HxWxD) 84"x28"x28"

4 POWER PLANT DETAIL
 A-4 SCALE: N.T.S.

RF SYSTEM SCHEDULE

SECTOR	ANTENNA INFORMATION					RRH INFORMATION		TMA & DIPLEXER INFORMATION		FEEDER INFO.	
	POSITION	STATUS	MODEL	AZIMUTH	RAD CTR (A.G.L.)	STATUS	MODEL	STATUS	MODEL	COAX	FIBER
ALPHA	I-A	EXISTING	7770	139°	131'	-	-	(E)(2) TMA, (E)(2) DIPLXR.	(2) LGP 21401, (2) LGP 21901	2	-
	II-A	EXISTING	QS66512-2	30°	131'	EXISTING	RRUS-32	(E)(2) DIPLEXERS	(2) DBC0061F1V51-2	2	1
	III-A	-	-	-	-	-	-	-	-	-	-
	IV-A	PROPOSED	800-10965	30°	131'	PROPOSED, PROPOSED	4449 B5/B12, 8843 B2/B66A	-	-	-	1
BETA	I-B	EXISTING	7770	261°	131'	-	-	(E)(2) TMA, (E)(2) DIPLXR.	(2) LGP 21401, (2) LGP 21901	2	-
	II-B	EXISTING	QS66512-2	150°	131'	EXISTING	RRUS-32	(E)(2) DIPLEXERS	(2) DBC0061F1V51-2	2	1
	III-B	-	-	-	-	-	-	-	-	-	-
	IV-B	PROPOSED	800-10965	150°	131'	PROPOSED, PROPOSED	4449 B5/B12, 8843 B2/B66A	-	-	-	1
GAMMA	I-C	EXISTING	7770	20°	131'	-	-	(E)(2) TMA, (E)(2) DIPLXR.	(2) LGP 21401, (2) LGP 21901	2	-
	II-C	EXISTING	QS66512-2	270°	131'	EXISTING	RRUS-32	(E)(2) DIPLEXERS	(2) DBC0061F1V51-2	2	1
	III-C	-	-	-	-	-	-	-	-	-	-
	IV-C	PROPOSED	800-10965	270°	131'	PROPOSED, PROPOSED	4449 B5/B12, 8843 B2/B66A	-	-	-	1

* CONTRACTOR TO VERIFY FINAL RFDS PRIOR TO CONSTRUCTION



SITE NUMBER: CT2103
SITE NAME: WESTPORT SOUTH
 19-20 POST OFFICE LANE
 WESTPORT, CT 06880
 FAIRFIELD COUNTY

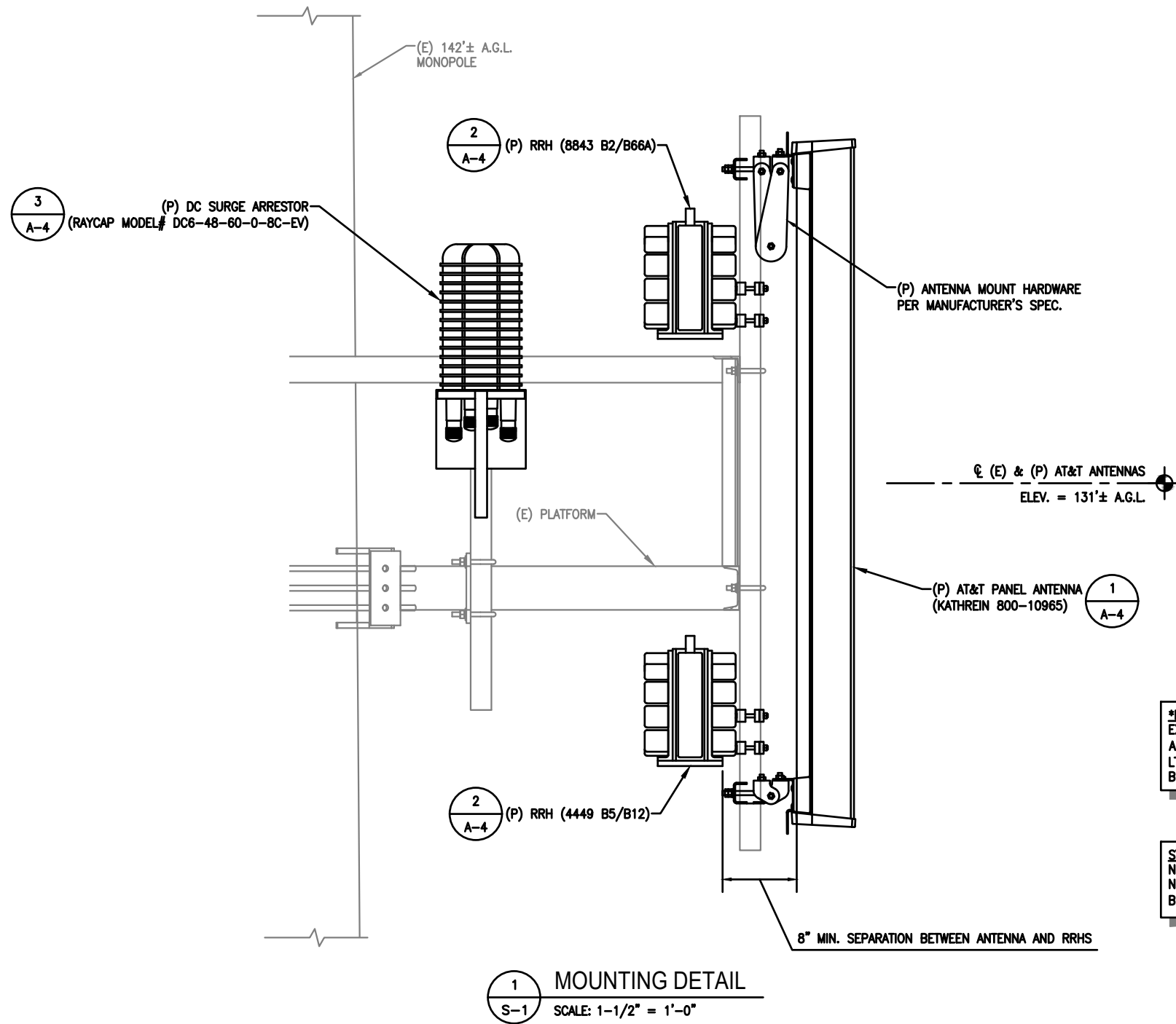


550 COCHITUATE ROAD, SUITE 13,
 FRAMINGHAM, MA 01701-4681

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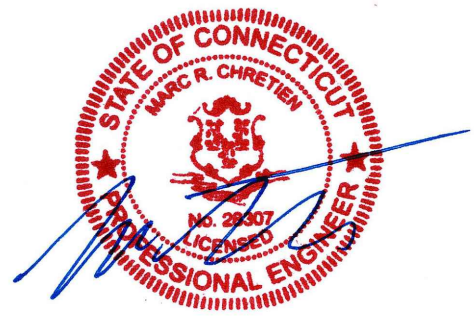
DETAILS AND
 RF SYSTEM SCHEDULE

SHEET NO. **A-4**



***NOTE:**
EXISTING ANTENNAS TO BE RELOCATED TO MAINTAIN A MINIMUM OF 3'-0" SEPARATION BETWEEN ALL LTE ANTENNAS. A MINIMUM OF 6'-0" SEPARATION BETWEEN 700BC AND 700DE ANTENNAS.

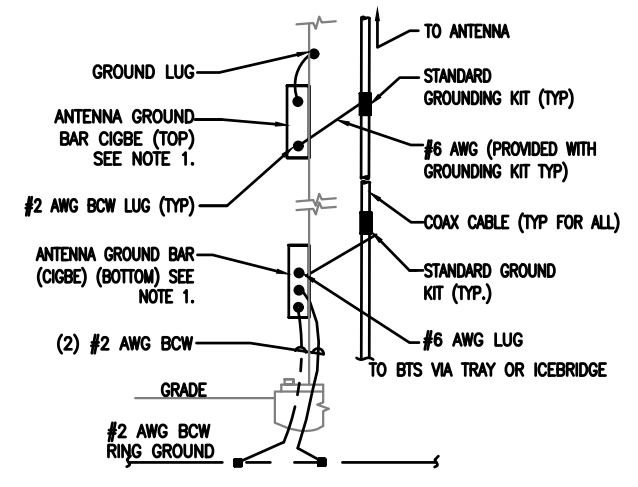
STRUCTURAL NOTE:
NO ADDITIONAL MOUNT REINFORCEMENT NECESSARY PER MOUNT ANALYSIS BY B+T GROUP, DATED 03/22/2019.



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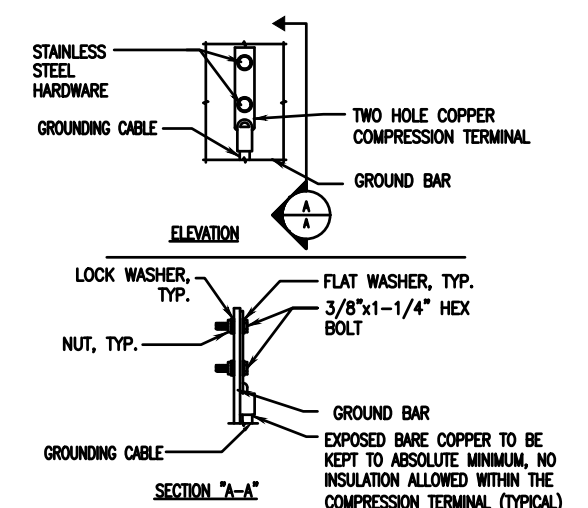
	CIRCUIT BREAKER	ACCA	ANTENNA CABLE COVER ASSEMBLY
	ELECTRIC BOX	AWG	AMERICAN WIRE GAUGE
	ELECTRICAL CONDUIT	BTWC	BARE TINNED COPPER WIRE
	EXOTHERMIC CONNECTION (CADWELD) TO GROUND RING AND COMPRESSION TO GROUND HALO	C	CONDUIT
	DISCONNECT SWITCH	CIGBE	COAX INSULATED GROUND BAR EXTERNAL CONDUIT ONLY
	GROUND ROD	DWG	DRAWING
	GROUND ROD WITH ACCESS	EGB	EXTERNAL GROUND BAR
	MECHANICAL GROUND CONN.	EMT	ELECTRICAL METALLIC TUBING
	GROUND ACCESS WELL	(E)	EXISTING
	GROUNDING WIRE	(F)	FUTURE
	GENERATOR	GEN	GENERATOR
	FUSE	GFI	GROUND FAULT CIRCUIT INTERRUPTER
	GROUND BUS BAR	GND	GROUND
	REVISION	GR	GROWTH
	TELEPHONE BOX	IGR	INTERIOR GROUND RING (HALO)
	UTILITY METER	MIGB	MASTER ISOLATED GROUND BAR
	XIT GROUND ROD	(P)	PROPOSED, NEW (PROVIDE AND INSTALL UNLESS NOTED OTHERWISE)
		PCS	PERSONAL COMMUNICATION SERVICE
		PPC	POWER PROTECTION CABINET
		PRC	PRIMARY RADIO CABINET
		PVC	POLYVINYL CHLORIDE CONDUIT
		RGS	RIGID GALVANIZED STEEL
		RWY	RACEWAY
		S.L.D.	SINGLE LINE DIAGRAM
		TEL	TELEPHONE
		TYP.	TYPICAL
		WP	WEATHER-PROOF EQUIPMENT

1 ELEC. / GROUNDING LEGEND
G-1 SCALE: N.T.S.



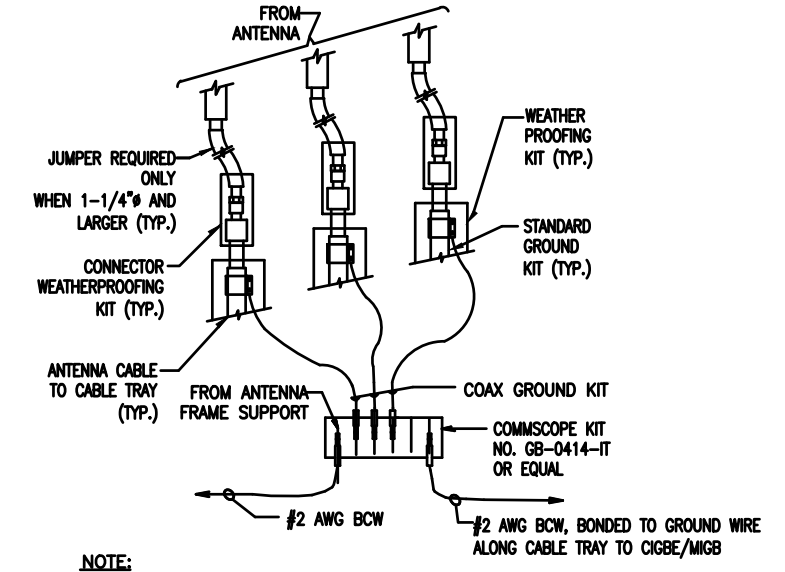
NOTE:
1. NUMBER OF GROUND BARS MAY VARY DEPENDING ON THE TYPE OF TOWER. ANTENNA LOCATION AND CONNECTION ANTENNA LOCATION AND CONNECTION ORIENTATION. PROVIDE AS REQUIRED.
2. A SEPARATE GROUND BAR TO BE USED FOR GPS ANTENNA IF REQUIRED.

2 TYP. ANTENNA CABLE GROUNDING
G-1 SCALE: N.T.S.



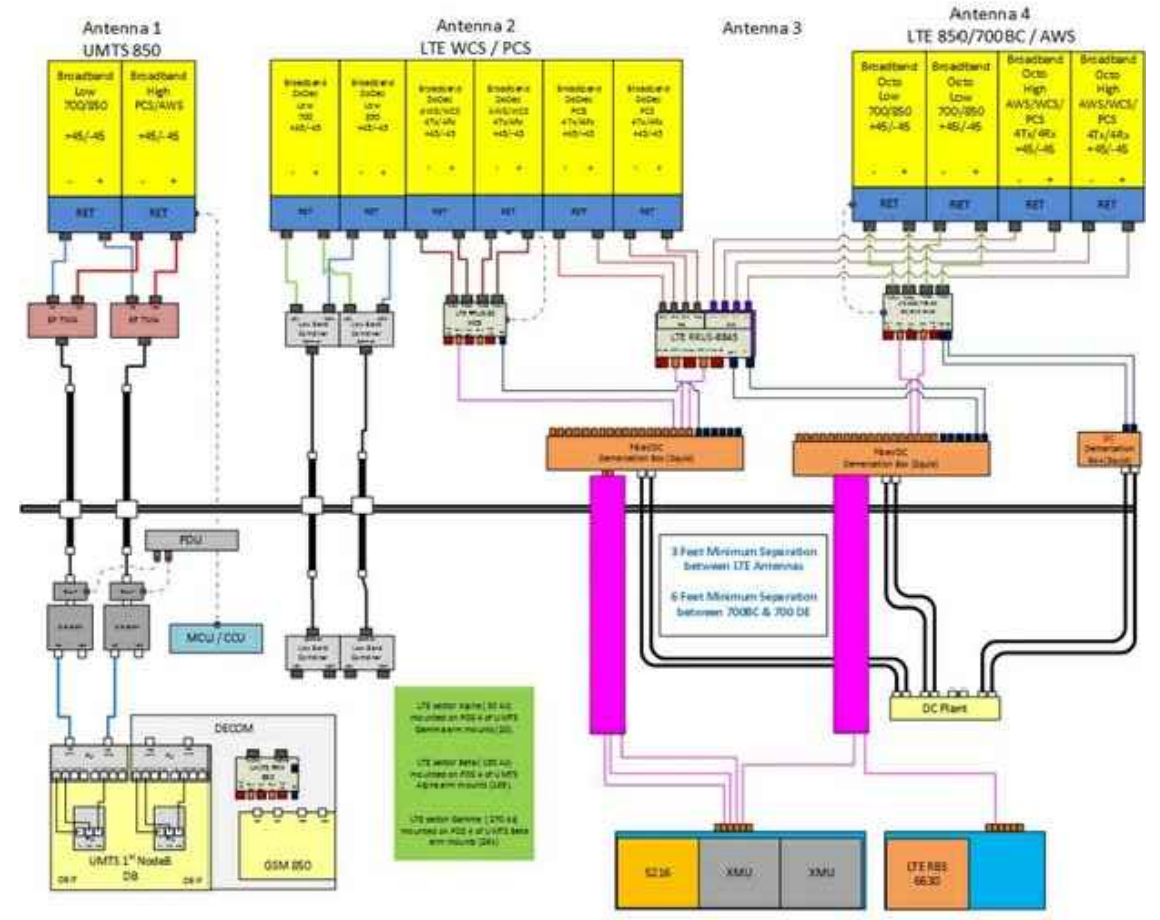
NOTES:
1. "DOUBLING UP" OR "STACKING" OF CONNECTION IS NOT PERMITTED.
2. OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.
3. CADWELD DOWNLEADS FROM UPPER EGB, LOWER EGB, AND MGB.
4. ALL GROUND LUGS MUST BE HEAT SHRUNK AT WIRE/LUG CONNECTION

3 TYP. GROUND BAR CONNECTION
G-1 SCALE: N.T.S.



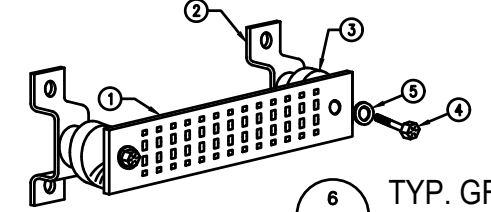
NOTE:
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO CIGBE.

4 TYP. GROUND WIRE TO GROUND BAR CONN.
G-1 SCALE: N.T.S.

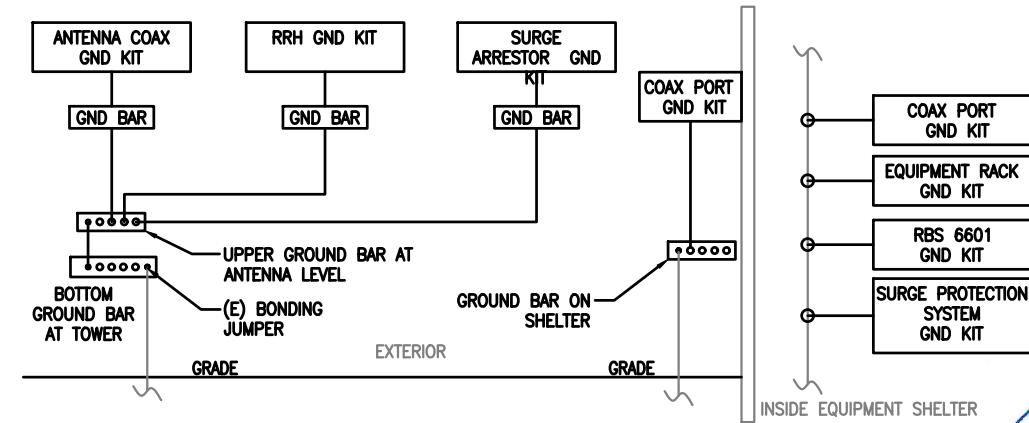


5 ONE LINE PLUMBING DIAGRAM
G-1 SCALE: N.T.S.

WIRELESS SOLUTIONS INC.				
NO.	REQ.	PART NO.	DESCRIPTION	
1	1	HLGB-0420-IS	SOLID GND. BAR (20"x4"x1/4")	
2	2		WALL MTG. BRKT.	
3	2		INSULATORS	
4	4		5/8"-11x1" H.H.C.S.	
5	4		5/8" LOCKWASHER	



6 TYP. GROUND BAR CONN.
G-1 SCALE: N.T.S.



7 ONE LINE GROUNDING DIAGRAM
G-1 SCALE: N.T.S.

EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

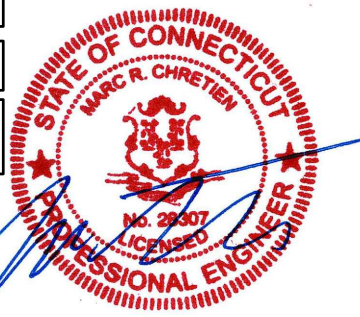
SECTION "P" - SURGE PRODUCERS

- CABLE ENTRY PORTS (HATCH PLATES) (#2)
- GENERATOR FRAMEWORK (IF AVAILABLE) (#2)
- TELCO GROUND BAR
- COMMERCIAL POWER COMMON NEUTRAL/GROUND BOND (#2)
- +24V POWER SUPPLY RETURN BAR (#2)
- 48V POWER SUPPLY RETURN BAR (#2)
- RECTIFIER FRAMES.

SECTION "A" - SURGE ABSORBERS

- INTERIOR GROUND RING (#2)
- EXTERNAL EARTH GROUND FIELD (BURIED GROUND RING) (#2)
- METALLIC COLD WATER PIPE (IF AVAILABLE) (#2)
- BUILDING STEEL (IF AVAILABLE) (#2)

GROUNDING NOTES:
ALL GROUNDING SHALL BE DONE IN ACCORDANCE WITH THE AT&T MOBILITY GROUNDING GUIDE.



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