



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

October 16, 2019

Jake Shappy
Transcend Wireless
10 Industrial Avenue, Suite 3
Mahwah, NJ 07430

RE: **EM-SPRINT-164-191001** – Sprint notice of intent to modify an existing telecommunications facility located at 494 Windsor Avenue, Windsor, Connecticut.

Dear Mr. Shappy:

The Connecticut Siting Council (Council) is in receipt of your correspondence of October 9, 2019 submitted in response to the Council's October 3, 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

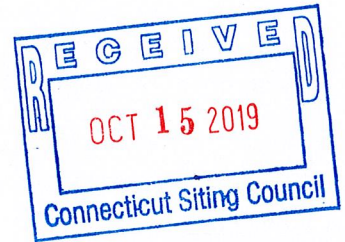
MAB/IN/lm



CONNECTICUT SITING COUNCIL
Affirmative Action / Equal Opportunity Employer

Fontaine, Lisa

From: jshappy@transcendwireless.com
Sent: Wednesday, October 09, 2019 10:08 AM
To: Nwankwo, Ifeanyi; Robidoux, Evan
Cc: CSC-DL Siting Council
Subject: RE: Council Incomplete Letter for EM-SPRINT-164-191001 (494 Windsor Avenue, Windsor)
Attachments: CT03XC055_CSC Memo TW DS.pdf



Ifeanyi ,

The letter has been corrected, my apologies.

Jake Shappy
10 Industrial Ave, Suite 3
Mahwah, NJ 07430
Cell: 845-553-3330
jshappy@transcendwireless.com

From: Nwankwo, Ifeanyi <Ifeanyi.Nwankwo@ct.gov>
Sent: Wednesday, October 9, 2019 9:48 AM
To: 'jshappy@transcendwireless.com' <jshappy@transcendwireless.com>; Robidoux, Evan <Evan.Robidoux@ct.gov>
Cc: CSC-DL Siting Council <Siting.Council@ct.gov>
Subject: RE: Council Incomplete Letter for EM-SPRINT-164-191001 (494 Windsor Avenue, Windsor)

Hi Jake
Good Morning, and thank you for your email.
The cover letter still references the beacon falls facility. Please revise.

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: jshappy@transcendwireless.com [<mailto:jshappy@transcendwireless.com>]
Sent: Wednesday, October 09, 2019 9:02 AM
To: Robidoux, Evan
Cc: CSC-DL Siting Council
Subject: RE: Council Incomplete Letter for EM-SPRINT-164-191001 (494 Windsor Avenue, Windsor)

Evan,

Please see the attached, corrected soft copies of the CDs, Exempt Mod cover letter, and petition letter for modification number EM-Sprint-164-191001. If these are acceptable I will have the hard copies sent in.

Jake Shappy
10 Industrial Ave, Suite 3
Mahwah, NJ 07430
Cell: 845-553-3330
jshappy@transcendwireless.com

From: Robidoux, Evan <Evan.Robidoux@ct.gov>
Sent: Friday, October 4, 2019 2:01 PM
To: 'jshappy@transcendwireless.com' <jshappy@transcendwireless.com>
Cc: CSC-DL Siting Council <Siting.Council@ct.gov>
Subject: Council Incomplete Letter for EM-SPRINT-164-191001 (494 Windsor Avenue, Windsor)

Please see the attached correspondence.

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



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

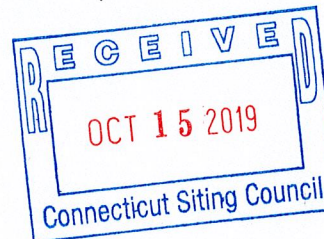
E-Mail: siting.council@ct.gov

www.ct.gov/csc

VIA ELECTRONIC MAIL

October 3, 2019

Jake Shappy
Transcend Wireless
10 Industrial Avenue, Suite 3
Mahwah, NJ 07430



RE: **EM-SPRINT-164-191001** – Sprint notice of intent to modify an existing telecommunications facility located at 494 Windsor Avenue, Windsor, Connecticut.

Dear Mr. Shappy:

The Connecticut Siting Council (Council) received a notice of intent to modify the above-referenced facility on October 1, 2019.

According to Section 16-50j-71 of the Regulations of Connecticut State Agencies, "...any modification, as defined in Section 16-50j-2a of the Regulations of Connecticut State Agencies, to an existing tower site, except as specified in Sections 16-50j-72 and 16-50j-88 of the Regulations of Connecticut State Agencies, may have a substantial adverse environmental effect."

Staff has reviewed this exempt modification request for completeness and has identified a deficiency in the construction drawing (CD) last revised October 11, 2018 and provided with the filing. The above-referenced document cites the 2012 International Building code (IBC) and the 2016 Connecticut State Building Code (CSBC); however, the State of Connecticut has adopted the 2015 IBC as amended in the 2018 CSBC effective October 1, 2018.

Also, the first paragraph of the cover letter lists the facility address as "242 Pent Rd. Beacon Falls, CT", and the bottom of page 2 under attachments, states Robert Ruzzo, Town of Beacon Falls Zoning Enforcement Officer, is copied. The rest of the filing references a facility in Windsor.

Therefore, the exempt modification request is incomplete at this time. The Council recommends that Transcend Wireless provide an updated CD that comports with the current 2018 CSBC, and a revised cover letter, on or before November 1, 2019. If additional time is needed to gather the requested information, please submit a written request for an extension of time prior to November 1, 2019. **Please provide an electronic version and one hard copy of the requested information for the incomplete exempt modification to be rendered complete and processed. Please include the Council's exempt modification identification number referenced above with the submittal.**

This notice of incompleteness shall have the effect of rolling the Federal Communications Commission (FCC) 60-day timeframe in accordance with Paragraph 217 of the FCC Wireless Infrastructure Report and Order issued on October 21, 2014 (FCC 14-153).

Thank you for your attention to this matter. Should you have any questions, please feel free to contact me at 860-827-2951.

Sincerely,

Melanie Bachman
Executive Director

MAB/IN/emr

- c: The Honorable Donald Trinks, Mayor, Town of Windsor
- Peter Souza, Town Manager, Town of Windsor
- Eric Barz, AICP, Town Planner, Town of Windsor





10 INDUSTRIAL AVE,
SUITE 3
MAHWAH NJ 07430

PHONE: 201.684.0055
FAX: 201.684.0066

September 27, 2019

Members of the Siting Council
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

RE: Notice of Exempt Modification
494 Windsor Ave. Windsor, CT 06095
Latitude: 41.822
Longitude: - 72.654722
Sprint Site#: CT03XC055 – DO Macro

Dear Ms. Bachman:

Sprint currently maintains three (3) antennas at the 131.25-foot level of the existing 131.25-foot transmission tower at 494 Windsor Ave. Windsor, CT. The 131.25-foot transmission tower is owned by The Connecticut Light & Power Company, d/b/a Eversource Energy and property is owned by Windsor Shopping Center LLP c/o Sprint Spectrum LLP. Sprint now intends to replace three (3) of its existing antennas with three (3) new 800/1900/2500 MHz antennas. The new antennas will be installed at the same 131.25-foot level of the tower.

Planned Modifications:

Tower:

Remove
N/A

Remove and Replace:

(3) RFS APXVSP18-C antennas (Remove) - CommScope DHHTT65B-3XR antennas (Replace)
800/1900/2500 MHz

Install New:

(3) RFS KIT-FD9R6004 / 1C-DL diplexers
(3) CCI DPO-7126Y-0-T1 diplexers

Existing to Remain:

(18) 1-5/8" coax cables

Ground:

Install New: (3) RFS KIT-FD9R6004 / 1C-DL diplexers, (3) CCI DPO-7126Y-0-T1 diplexers, (3) 2500 MHz RRHs

This facility was approved by the CSC for Sprint use in Petition No. 371 dated April 23, 1997. This modification complies with this approval. Please see the enclosed.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Mayor - Donald S. Trinks, Elected Official, and Robert Ruzzo, Zoning Enforcement Officer for the Town of Windsor, as well as the owner.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

1. The proposed modifications will not result in an increase in the height of the existing structure.
2. The proposed modifications will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading.

For the foregoing reasons, Sprint respectfully submits that the proposed modifications to the above referenced telecommunications facility constitute an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,

Jake Shappy

Transcend Wireless

Cell: 845-553-3330

Email: jshappy@transcendwireless.com

Attachments

cc: Donald S. Trinks – Town of Windsor Mayor

Robert Ruzzo – Town of Windsor Zoning Enforcement Officer

Windsor Shopping Center LLP c/o Sprint Spectrum LLP – property owner

The Connecticut Light & Power Company, d/b/a Eversource Energy – tower owner

Petition No. 371
Sprint Personal Communications System
Windsor, Connecticut
Staff Report
April 23, 1997

On April 17, 1997, William H. Smith and Edward S. Wilensky of the Connecticut Siting Council (Council), Executive Director Joel M. Rinebold and Robert K. Erling of the Council staff met Stephen M. Howard and Scott Chasse of Sprint Personal Communications System (Sprint), Kevin Washburn of Clough, Harbour and Associates, and Richard Madej of the Connecticut Light and Power Company (CL&P) for a field review of this petition in Windsor, Connecticut. Sprint is petitioning the Council for a determination that no Certificate of Environmental Compatibility and Public Need would be required for the proposed modifications to the existing CL&P Manchester-North Bloomfield-Northwest Hartford 115 kV electric transmission line, because the proposed construction would not have a substantial adverse environmental effect.

Sprint proposes to install a 123-foot power mount pole within an existing 110-foot CL&P transmission line structure off of Windsor Avenue in Windsor, Connecticut. This new monopole would extend approximately 12 feet three inches above the existing transmission line structure. Other existing steel lattice structures on this line are 116- and 99- feet in height, and the steel monopoles on an existing 345 kV line immediately north of this line are 125 and 120 feet in height. To the west are wood pole structures 75 feet in height. Sprint would attach its antennas to a 14-foot wide platform approximately 123 feet above ground level on the power mount pole, and install communication equipment on an 8-foot by 11-foot concrete pad adjacent to the existing tower. Both the tower and equipment would be surrounded by a 6-foot chain link fence. Access to the proposed site would be via the parking lot of an existing service station adjacent to the proposed site. No clearing of vegetation would be required.

A potential alternate site, structure # 10133, is approximately 500 feet east of the proposed tower on the same line. This structure is approximately 6 feet higher than the proposed tower and is located immediately north of the Windsor Shopping Plaza. The alternate site is adjacent to the dumpsters of a food store and is partially within a paved area. The Town of Windsor has recommended approval of the alternate site.

The installation and operation of the proposed PCS antennas would not increase the total radio frequency electromagnetic power density of the proposed site to a level at or above the State standards for the proposed antenna frequencies. Based on conservative assumptions, the power density at the base of the proposed tower would constitute 2.44 percent of the maximum permissible exposure for the proposed frequencies, as defined by the Federal Communications Commission. As mitigation measures during construction, staff recommends the use of erosion and sedimentation measures consistent with the Connecticut Guidelines for Soil Erosion and Sediment Control, as amended, the placement of vegetative screening on all sides of the fence, and the installation of a gate to control access.



WIRELESS COMMUNICATIONS FACILITY

EVERSOURCE STRUCT.: 10133

SITE ID: CT03XC055

490 WINDSOR AVE

WINDSOR, CT 06095

GENERAL NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH THE 2015 INTERNATIONAL BUILDING CODE AS MODIFIED BY THE 2018 CONNECTICUT SUPPLEMENT, INCLUDING THE TIA/EIA-222 REVISION "G" "STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND SUPPORTING STRUCTURES." 2018 CONNECTICUT FIRE SAFETY CODE, NATIONAL ELECTRICAL CODE AND LOCAL CODES.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- ALL UTILITY WORK SHALL BE IN ACCORDANCE WITH LOCAL UTILITY COMPANY REQUIREMENTS AND SPECIFICATIONS.
- 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.
- ANY AND ALL ERRORS, DISCREPANCIES, AND "MISSED" ITEMS ARE TO BE BROUGHT TO THE ATTENTION OF THE SPRINT 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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. CONTRACTOR SHALL MAINTAIN AND PROTECT MARKED UTILITIES THROUGHOUT PROJECT COMPLETION.
- CONTRACTOR SHALL COMPLY WITH OWNERS ENVIRONMENTAL ENGINEER ON ALL METHODS AND PROVISIONS FOR ALL EXCAVATION ACTIVITIES INCLUDING SOIL DISPOSAL. ALL BACKFILL MATERIALS TO BE PROVIDED BY THE CONTRACTOR.

SITE DIRECTIONS

FROM:	TO:
5 WAYSIDE ROAD BURLINGTON, MA 01803	490 WINDSOR AVE WINDSOR, CT 06095
1. START OUT BY GOING TO WAYSIDE ROAD.	0.10 MI.
2. TURN LEFT ONTO CAMBRIDGE ST/US-3 N/MA	0.10 MI.
3. MERGE ONTO I-95 S/US-3 N TOWARD WALTHAM/LOWELL	0.30 MI.
4. TAKE THE I-90/MASS PIKE EXIT, EXIT 25, TOWARD BOSTON/ALBANY NY.	12.10 MI.
5. MERGE ONTO I-90 W/MASSACHUSETTS TPKE W TOWARD WORCESTER.	44.45 MI.
6. MERGE ONTO I-84 W/WILBUR CROSS HWY S VIA EXIT 9 TOWARD US-20.	37.40 MI.
7. TAKE EXIT 61 FOR I-291 W TOWARD WINDSOR.	4.8 MI.
8. TAKE EXIT 3 TOWARD CT-159/WINDSOR.	0.10 MI.
9. TURN RIGHT ONTO CT159 N.	<0.10 MI.

VICINITY MAP

SCALE: 1" = 1000'



PROJECT SUMMARY

- THE PROPOSED SCOPE OF WORK CONSISTS OF A MODIFICATION TO THE EXISTING UNMANNED TELECOMMUNICATIONS FACILITY INCLUDING THE FOLLOWING:
 - INSTALLATION OF A PROPOSED UNISTRUT EQUIPMENT RACK MOUNTED AT GRADE.
 - REMOVE (3) EXISTING PANEL ANTENNAS FROM EXISTING TOWER MOUNT.
 - INSTALL (3) PROPOSED 10-PORT PANEL ANTENNAS, (1) PER SECTOR.
 - INSTALL (6) PROPOSED DIPLEXERS ON TOWER.
 - INSTALL (6) PROPOSED DIPLEXERS ON PROPOSED UNISTRUT RACK.
 - INSTALL (3) PROPOSED RRR'S ON PROPOSED UNISTRUT RACK.

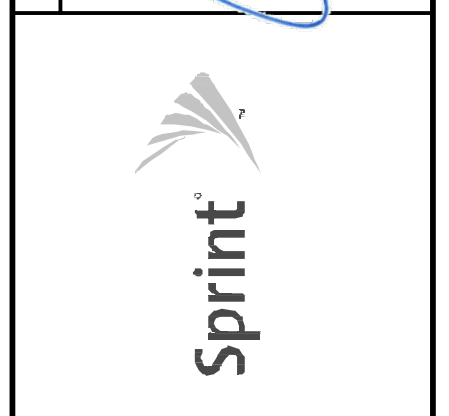
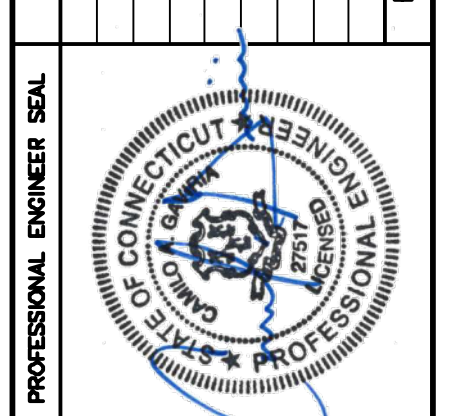
PROJECT INFORMATION

SITE NAME:	EVERSOURCE STRUCT.: 10133
SITE ID:	CT03XC055
SITE ADDRESS:	490 WINDSOR AVE WINDSOR, CT 06095
APPLICANT:	SPRINT 5 WAYSIDE ROAD BURLINGTON, MA 01803
CONTACT PERSON:	MIKE KITHCART (PROJECT MANAGER) (973)626-5792
ENGINEER:	CENITEK ENGINEERING, INC. 63-2 NORTH BRANFORD RD. BRANFORD, CT 06405
PROJECT COORDINATES:	LATITUDE: 41° 49' 19.20"N LONGITUDE: 72° 39' 17.00"W GROUND ELEVATION: 65' AMSL
	SITE COORDINATES REFERENCED AND GROUND ELEVATION REFERENCED FROM GOOGLE EARTH.

SHEET INDEX

SHT. NO.	DESCRIPTION	REV.
T-1	TITLE SHEET	2
N-1	DESIGN BASIS AND SITE NOTES	2
C-1	COMPOUND PLANS AND ELEVATION	2
C-2	TYPICAL DETAILS	2
C-3	COLOR CODE AND CPRI DETAILS	2

REV.	DATE	BY	CHK'D BY	DESCRIPTION
2	10/08/19	TJR		
1	10/11/18	TJR		
0	07/05/18	TJR		
A	02/19/18	TJR		



SPRINT
WIRELESS COMMUNICATIONS FACILITY
EVERSOURCE STRUCT.: 10133
SITE ID: CT03XC055
490 WINDSOR AVE
WINDSOR, CT 06095

DATE: 02/19/18
SCALE: AS NOTED
JOB NO. 17159.03

TITLE SHEET

T-1

DESIGN BASIS:

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

1. DESIGN CRITERIA:
 - WIND LOAD (UTILITY TOWER): 110 MPH (3 SECOND GUSTS) PER NESC C2-2012 SECTION 25 RULE 250C
 - WIND LOAD (ANTENNA MAST): 97 MPH (Vaed) (EXPOSURE C/IMPORTANCE FACTOR 1.15 BASED ON ASCE 7-10) PER 2012 INTERNATIONAL BUILDING CODE (IBC) AS MODIFIED BY THE 2016 CONNECTICUT STATE BUILDING CODE.
 - SEISMIC LOAD (DOES NOT CONTROL): PER ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES.

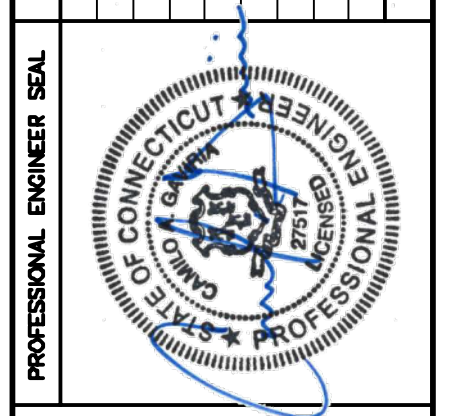
GENERAL NOTES:

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.
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 AND COST OF THE WORK.
4. DIMENSIONS AND DETAILS SHALL BE CHECKED AGAINST EXISTING FIELD CONDITIONS.
5. THE CONTRACTOR SHALL VERIFY AND COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS, SLEEVES AND ANCHOR BOLTS AS REQUIRED BY ALL TRADES.
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.

STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL IS DESIGNED BY ALLOWABLE STRESS DESIGN (ASD)
 - A. STRUCTURAL STEEL (W SHAPES)---ASTM A992 (FY = 50 KSI)
 - B. 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)
 - E. PIPE---ASTM A53 (FY = 35 KSI)
 - F. CONNECTION BOLTS---ASTM A325-N
 - G. U-BOLTS---ASTM A36
 - H. ANCHOR RODS---ASTM F 1554
 - I. WELDING ELECTRODE---ASTM E 70XX
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.
7. 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.

REV.	DATE	DESCRIPTION
2	10/08/19	TUR
1	10/11/18	TUL
0	07/05/18	TUL
A	02/19/18	TUL



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SPRINT
 WIRELESS COMMUNICATIONS FACILITY
EVERSOURCE STRUCT: 10133
SITE ID: CT03XC055
 490 WINDSOR AVE
 WINDSOR, CT 06095

DATE: 02/19/18
 SCALE: AS NOTED
 JOB NO. 17159.03

DESIGN BASIS
 AND SITE NOTES

N-1
 Sheet No. 2 of 5

SPRINT ANTENNAS
EL. ±131'-3" A.G.L.

EXISTING 12" SCH. 40 (O.D. = 12.75") ASTM A53 GRADE B X 131'-3" TALL FWT POWERMOUNT

TOP EXISTING UTILITY STRUCTURE
EL. ±116'-3" A.G.L.

SPRINT (EXISTING TO REMOVE): THREE (3) RFS APXVSP18-C PANEL ANTENNAS FLUSH MOUNTED.
SPRINT (PROPOSED): THREE (3) COMMSCOPE DHHT85B-3XR PANEL ANTENNAS, THREE (3) RFS KIT-FD9R6004/1C-DL DIPLEXERS AND THREE (3) CCI DPO-7126Y-0-T1 DIPLEXERS.

SPRINT EXISTING TWELVE (12) 1 5/8" DIA. COAX CABLES MOUNTED ON (2) TOWER LEGS

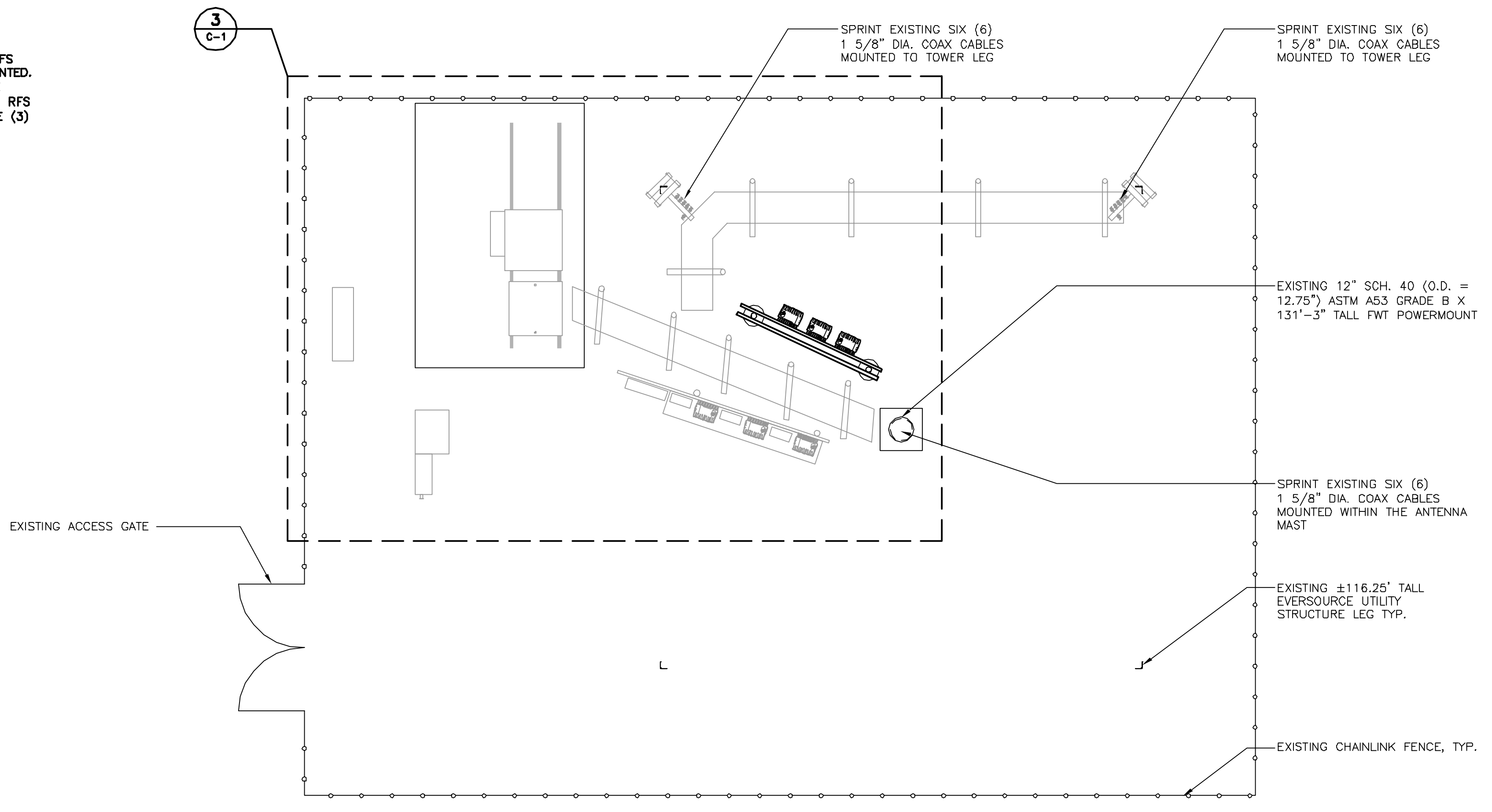
SPRINT EXISTING SIX (6) 1 5/8" DIA. COAX CABLES MOUNTED WITHIN THE ANTENNA MAST

EXISTING ±116.25' TALL EVERSOURCE UTILITY STRUCTURE

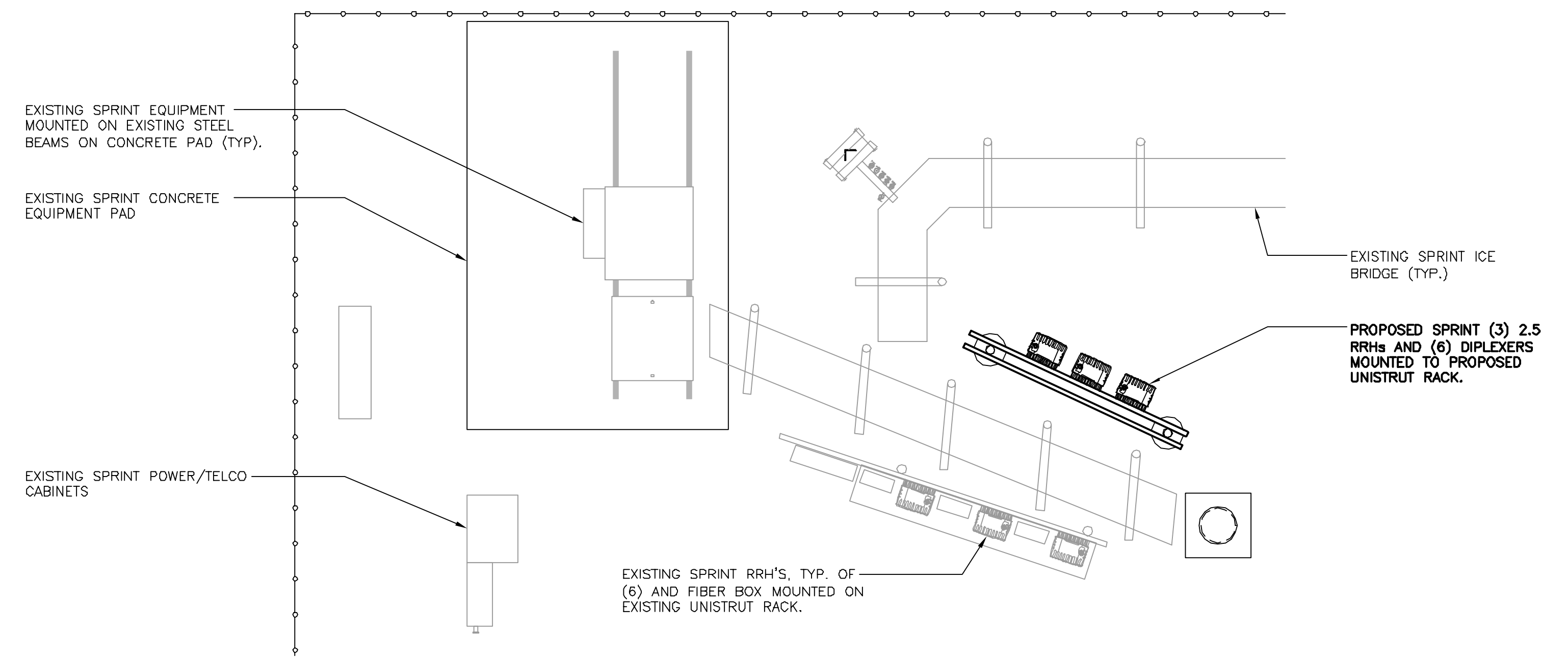
TOWER STRUCTURAL NOTES:
1. EXISTING 118.25' TALL EVERSOURCE STEEL TRANSMISSION STRUCTURE NO.: 10133
2. REFER TO TOWER STRUCTURAL ANALYSIS REPORT PREPARED BY CENTEK ENGINEERING, INC., PROJECT NO. 17159.03 DATED 07/05/2018 FOR ADDITIONAL REQUIREMENTS.

NOTES:
1. A.G.L. = ABOVE GRADE LEVEL

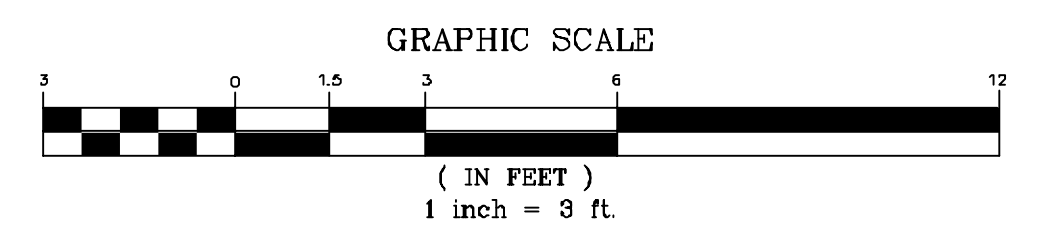
1 TOWER ELEVATION
SCALE: 1" = 7'-0"



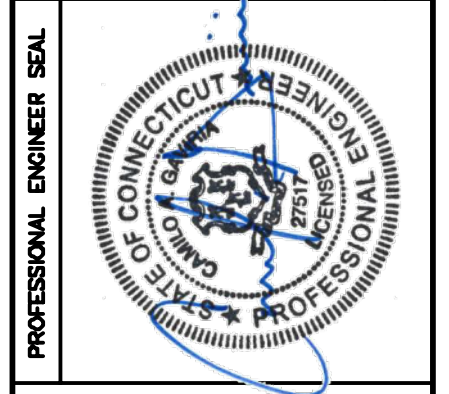
2 COMPOUND PLAN
SCALE: 1" = 4'-0"



3 EQUIPMENT PLAN
SCALE: 1" = 3'-0"



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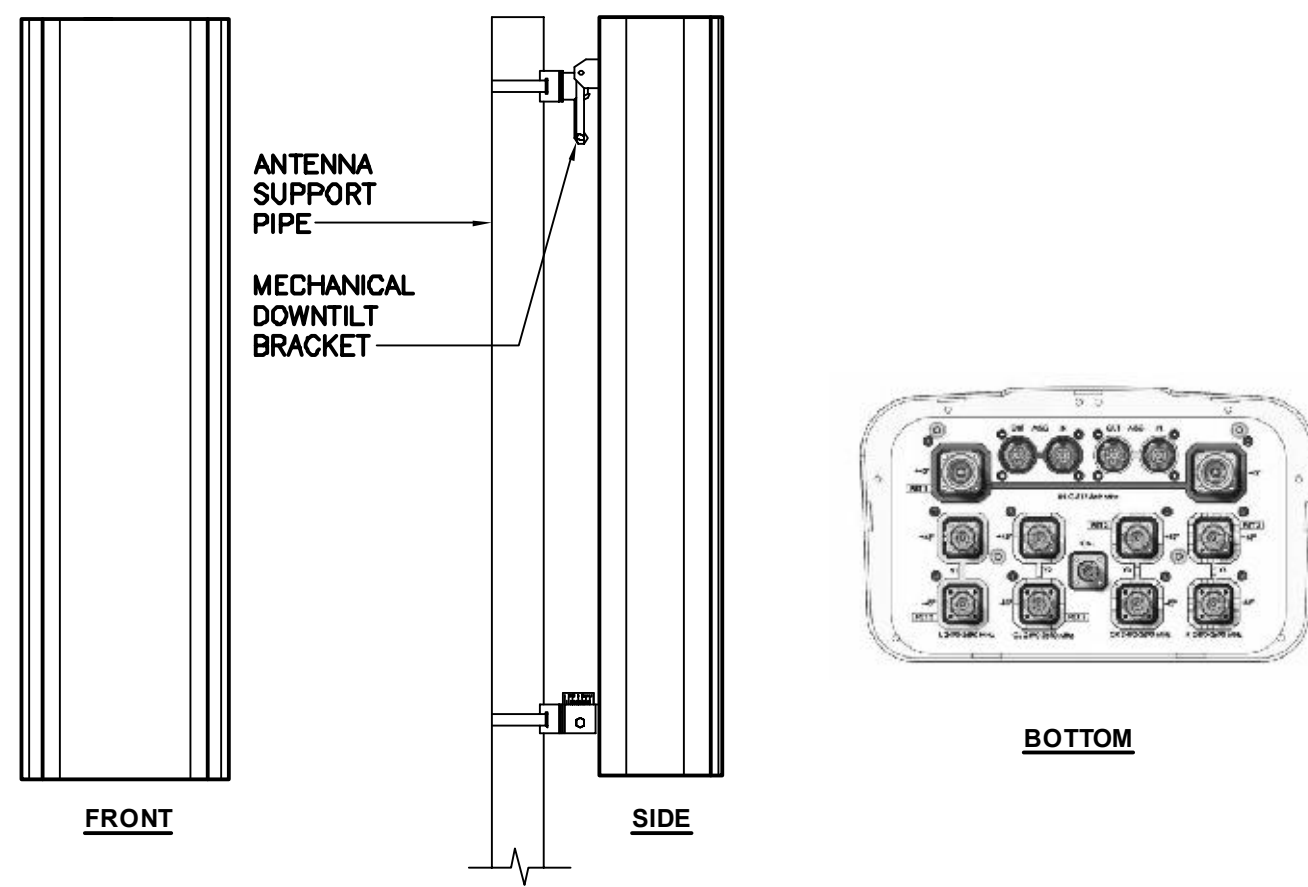


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COMPOUND PLANS AND ELEVATION



ALPHA/BETA/GAMMA ANTENNA		
EQUIPMENT	DIMENSIONS	WEIGHT
MAKE: COMMSCOPE MODEL: DHHT65B-3XR	71.9"L x 13.8"W x 8.2"D	58 LBS.

1 PROPOSED ANTENNA DETAIL
SCALE: 1/2" = 1'-0"

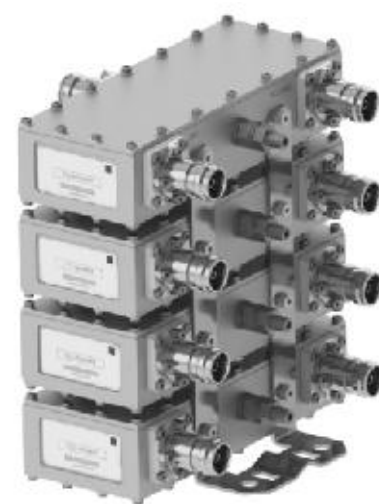


TD-RRH8x20-25

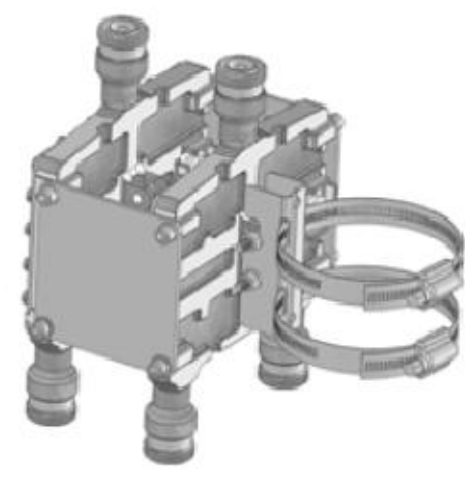
RRU (REMOTE RADIO UNIT)			
EQUIPMENT	DIMENSIONS	WEIGHT	CLEARANCES
MAKE: ALCATEL-LUCENT MODEL: TD-RRH8x20-25	25.3"L x 17.5"W x 5.7"D	66 LBS.	ABOVE: 16" MIN. BELOW: 12" MIN. FRONT: 36" MIN.

NOTES:
1. CONTRACTOR TO COORDINATE FINAL EQUIPMENT MODEL SELECTION WITH SPRINT CONSTRUCTION MANAGER PRIOR TO ORDERING.

2 REMOTE RADIO HEAD DETAIL
SCALE: NOT TO SCALE



DOP-7126Y-0-T1

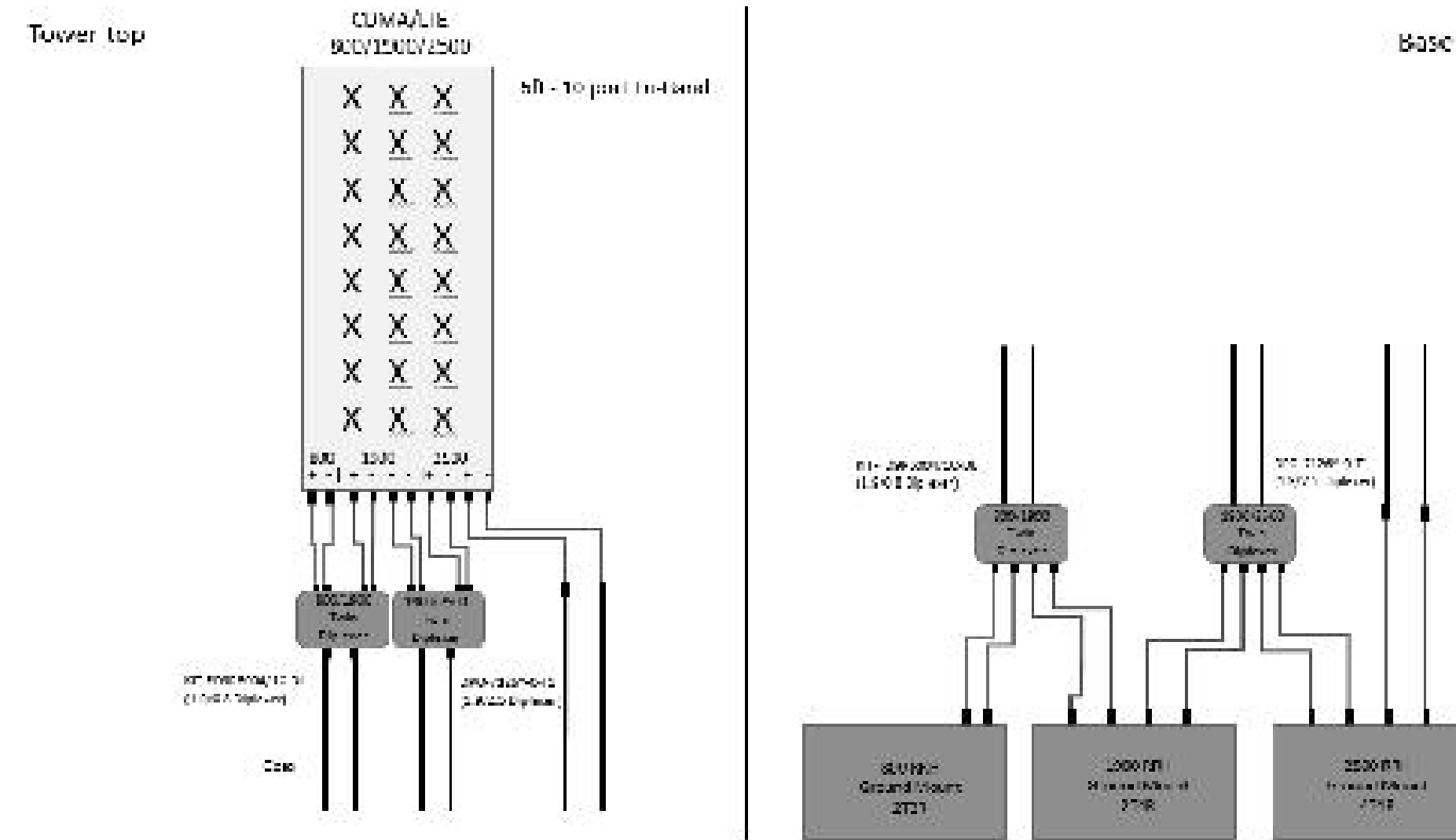


KIT-FD9R6004/1C-DL

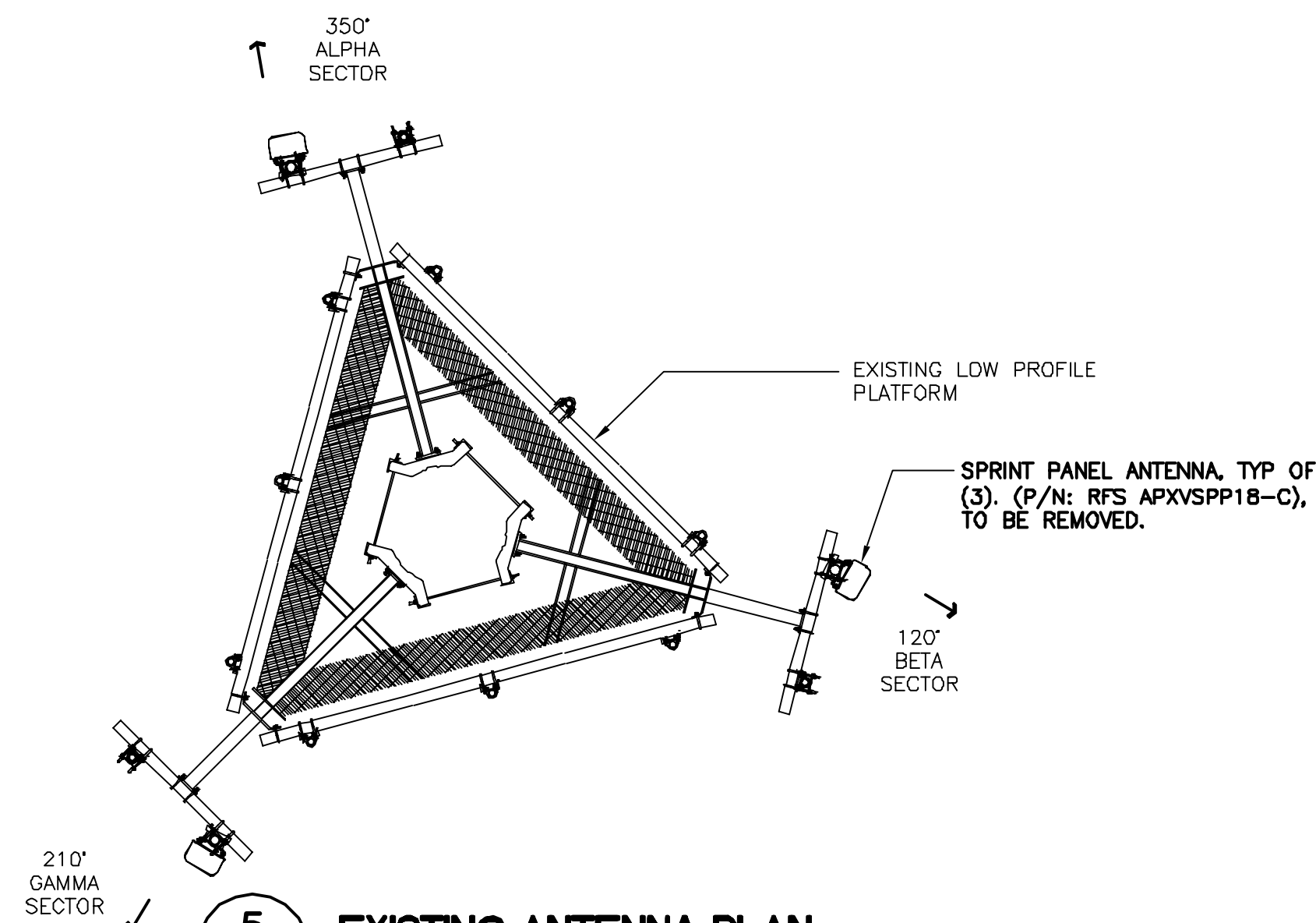
DIPLEXERS		
EQUIPMENT	DIMENSIONS	WEIGHT
MAKE: RFS MODEL: KIT-FD9R6004/1C-DL	5.8"L x 6.5"W x 4.6"D	6.4 LBS.
MAKE: CCI MODEL: DPO-7126Y-0-T1	6.26"L x 7.42"W x 4.07"D	7.3 LBS.

NOTES:
1. CONTRACTOR TO COORDINATE FINAL EQUIPMENT MODEL SELECTION WITH SPRINT CONSTRUCTION MANAGER PRIOR TO ORDERING.

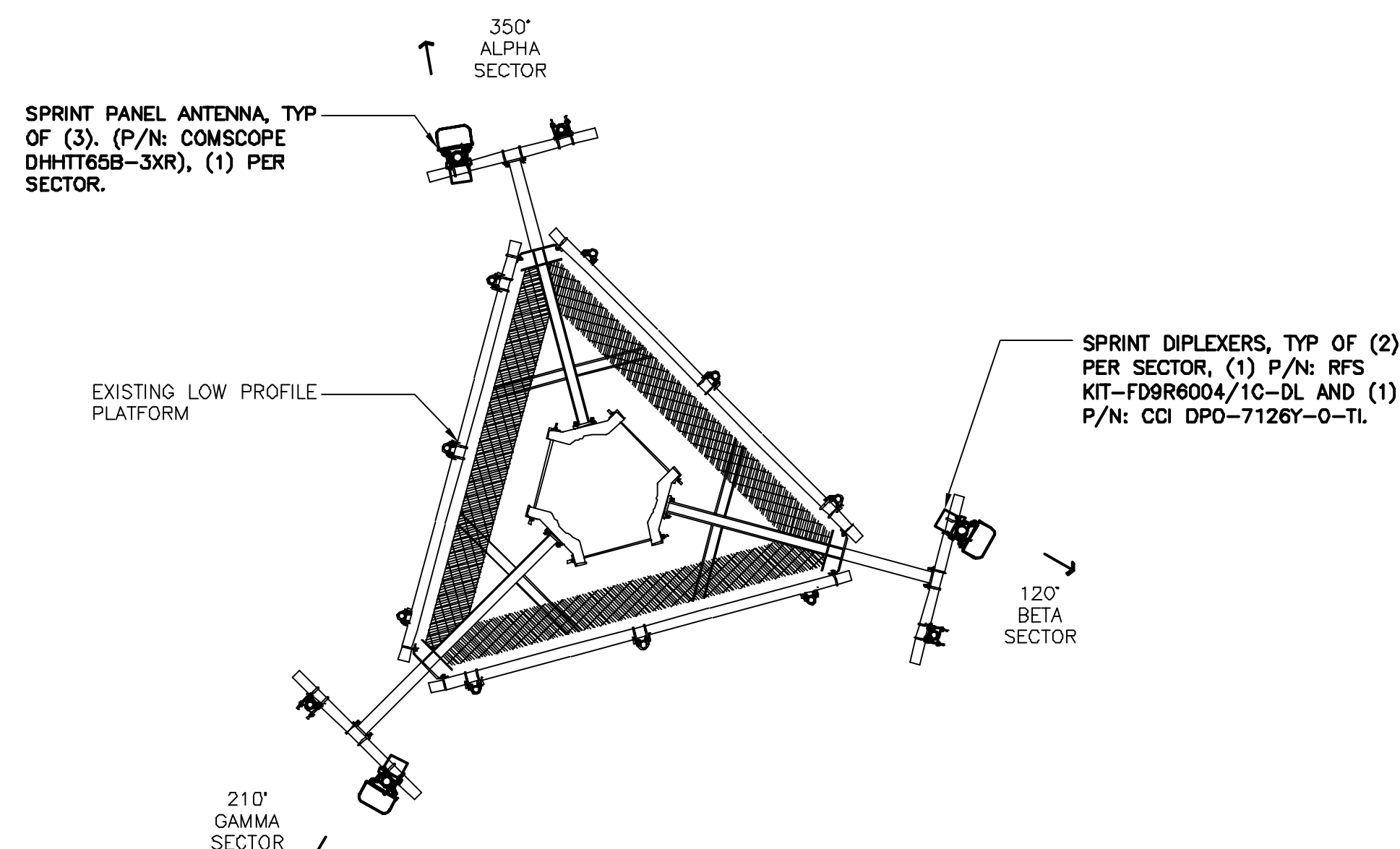
3 DIPLEXER DETAIL
SCALE: NOT TO SCALE



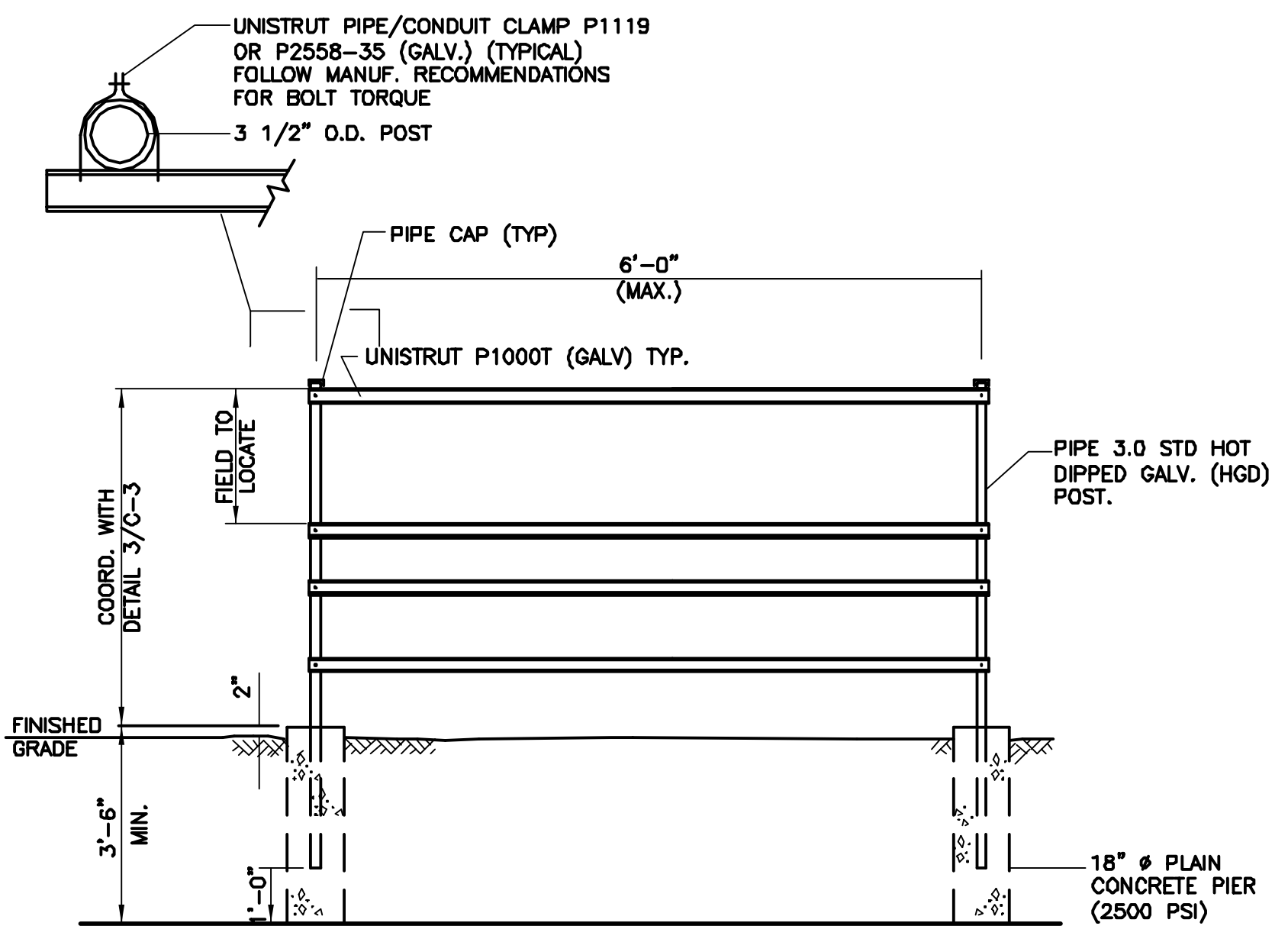
4 PLUMBING DIAGRAM
SCALE: NOT TO SCALE



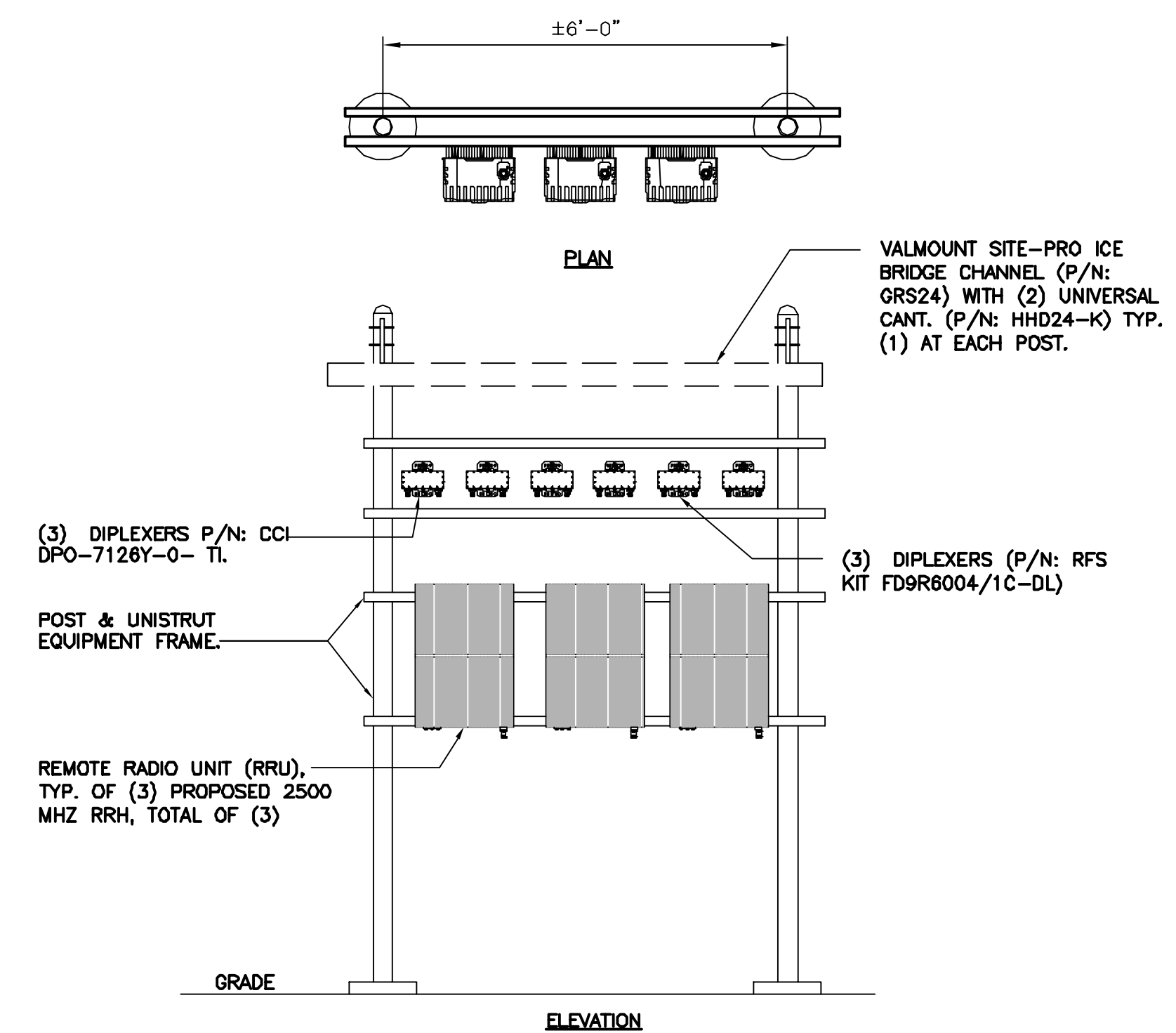
5 EXISTING ANTENNA PLAN
SCALE: = 1/4" = 1'



6 PROPOSED ANTENNA PLAN
SCALE: = 1/4" = 1'

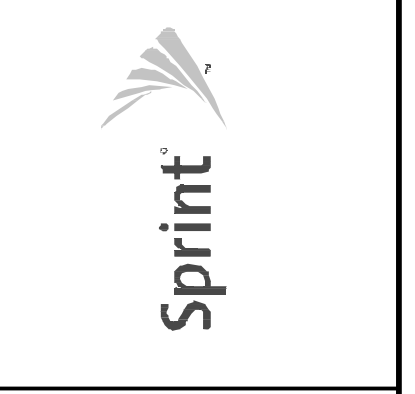
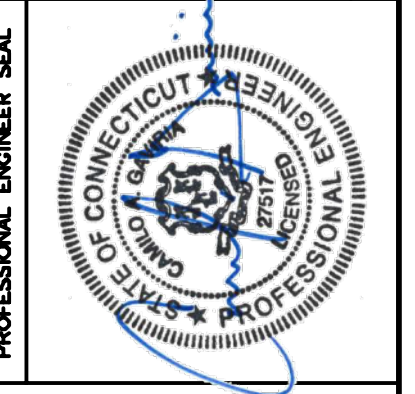


7 PROPOSED EQUIPMENT MOUNTING FRAME DETAIL
SCALE: NOT TO SCALE



8 RRU MOUNTING CONFIG.
SCALE: 1/2" = 1'-0"

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TYPICAL
DETAILS

