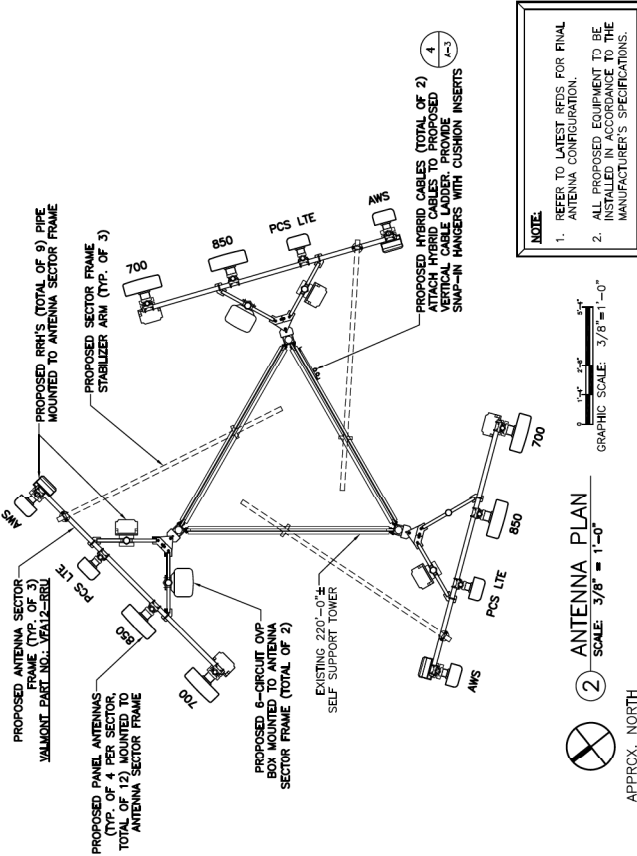


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REV	DATE	SUBMITTALS	BY
A	08/29/15	FOR REVIEW	JM
B	03/09/16	REVISED EQUIPMENT	JM
C	07/25/16	REVISED PER SV	JM

SITE INFO:  
 SITE NAME:  
 PORTLAND\_10\_16  
 LOCATION CODE:  
 381332  
 SITE ADDRESS:  
 81 WESTPORT DRIVE  
 PORTLAND, ME 04103  
 CUMBERLAND COUNTY

SHEET TITLE:	
ELEVATION, ANTENNA PLAN & NOTES	SHEET NUMBER: A-2
NEXIUS PROJ. NO.:	VZ11509
CHECKED BY:	KB
CHECKED BY DATE:	03/09/16

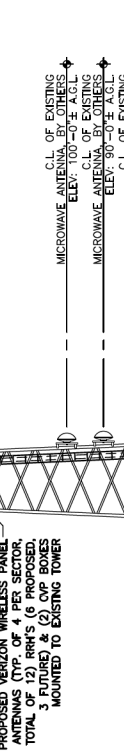


**STRUCTURAL STEEL NOTES:**

- DESIGN AND CONSTRUCTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC) 13TH EDITION, PART 5, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
- STRUCTURAL AND MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A572 STRUCTURAL STEEL, UNLESS OTHERWISE NOTED.
- STEEL TUBING SHALL CONFORM TO ASTM A500 "COLD-FORMED WELDED & SEAMLESS CARBON STEEL STRUCTURAL TUBING", GRADE B.
- STEEL PIPE SHALL CONFORM TO ASTM A500 "COLD-FORMED WELDED & SEAMLESS CARBON STEEL STRUCTURAL TUBING", GRADE B, OR ASTM A53 "STEEL BLACK AND BLUE BLENDED PIPE, HEAVY WALL AND STANDARD WALL", GRADE B, UNLESS OTHERWISE NOTED.
- WELDS SHALL BE FUSED STEEL BEAMS, STEEL FRAMING AS MANUFACTURED BY UNISTRUT CORP., WAKE MA, OR EQUAL. STRENGTH BOLTS SHALL BE 1 3/8" X 1 5/8" X 1322A, UNLESS OTHERWISE NOTED, AND SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
- EXPANSION BOLTS SHALL BE HEAVY HEX HEAD, UNLESS OTHERWISE NOTED. ALL BOLTS FOR STRUCTURAL CONNECTIONS SHALL BE HIGH STRENGTH BOLTS AND CONFORM TO THE LATEST EDITION OF ASTM A325, HIGH STRENGTH BOLTS FOR STRUCTURAL JOINTS, 1/2" THROUGH 1 1/2" DIA. UNLESS OTHERWISE NOTED.
- EXPANSION BOLTS SHALL CONFORM TO FEDERAL SPECIFICATIONS FF-45-325, GROUP B, TYPE 4, CLASS 1, HEAVY HEX HEAD, UNLESS OTHERWISE NOTED.
- TYPE 3, CLASS 3, AS MANUFACTURED BY KAT FASTENING SYSTEMS OR APPROVED EQUAL INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, MINIMUM EMBEDMENT SHALL BE (4) INCHES.
- EPoxy ANCHOR ASSEMBLY SHALL CONSIST OF 1/2" DIAMETER STAINLESS STEEL TUBE AND AN EPOXY ADHESIVE THE ANCHORING SYSTEM SHALL BE THE HLT HT HP-20 SYSTEM OR ENGINEER APPROVED EQUAL WITH 6" MIN. EMBEDMENT.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION. ANY UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ATTENTION OF THE ENGINEER.
- SUBMIT SHOP DETAIL DRAWINGS OF ALL STRUCTURAL AND MISCELLANEOUS STEEL TO THE ENGINEER FOR APPROVAL AND INCORPORATE ALL COMMENTS PRIOR TO FABRICATION.
- CONNECTIONS DESIGN BY FABRICATOR WILL BE SUBJECT TO REVIEW AND APPROVAL BY ENGINEER.
- MATERIALS OF CONSTRUCTION SHALL BE OTHERWISE SPECIFIED OR INDICATED ON DRAWINGS. MATERIALS SHALL BE PROVIDED BY THE FABRICATOR. THE FABRICATOR SHALL TAKE CORRECTIVE ACTION, ANY SUCH ACTION SHALL REQUIRE PRIOR ENGINEER APPROVAL.
- ALL WORK SHALL BE INSPECTED BY THE ENGINEER DURING AND AT THE COMPLETION OF CONSTRUCTION.

**WELDING:**

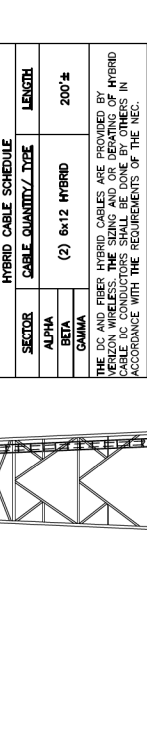
- CONTRACTOR SHALL COMPLY WITH AWS CODE FOR PROCEDURES, APPEARANCE, AND QUALITY OF WELDS, AND FOR METHODS USED IN CORRECTING WELDING. ALL WELDERS SHALL BE QUALIFIED IN ACCORDANCE WITH AWS STANDARD QUALIFICATION PROCEDURES.



HYBRID CABLE SCHEDULE

SECTOR	CABLE QUANTITY	TYPE	LENGTH
ALPHA	(2)	8x12 HYBRID	200'±
BETA			
GAMMA			

THE DC AND FIBER HYBRID CABLES ARE PROVIDED BY VERIZON WIRELESS. THE SIZING AND OR DERATING OF HYBRID CABLE I/C CONDUCTORS SHALL BE DONE BY OTHERS IN ACCORDANCE WITH THE REQUIREMENTS OF THE NEC.



**1** TOWER ELEVATION  
 SCALE: 1/16" = 1'-0"  
 GRAPHIC SCALE: 1/16" = 1'-0"

**2** ANTENNA PLAN  
 SCALE: 3/8" = 1'-0"  
 GRAPHIC SCALE: 3/8" = 1'-0"

**3** PROPOSED VERIZON WIRELESS ANTENNA SECTOR FRAME (TYP. OF 1 PER SECTOR, TOTAL OF 3)

**4** PROPOSED VERIZON WIRELESS PANEL ANTENNAS (TYP. OF 4 PER SECTOR, TOTAL OF 12), RFDS (6 PROPOSED, 3 FUTURE) & (2) OVP BOXES MOUNTED TO EXISTING TOWER

**NOTE:** PROJECT OWNER IS RESPONSIBLE FOR PROVIDING A STRUCTURAL STABILITY ANALYSIS TO DETERMINE CAPACITY AND SUITABILITY OF THE EXISTING ANTENNA SUPPORT STRUCTURE AND/OR TOWER STRUCTURE TO SAFELY CARRY ALL ADDITIONAL LOADS IMPOSED BY THE PROPOSED EQUIPMENT AS SHOWN HEREIN. REQUIRED STRUCTURAL MODIFICATIONS INTO THEIR SCOPE OF WORK.

**ON EXISTING ANTENNA SUPPORT STRUCTURES WITH FAA CONSTRUCTION MARKINGS: PAINT ANTENNAS, COATING AND MARKINGS AND PROPOSED VERTICAL CABLE LADDER AND HYBRID CABLES WITH THE SAME COLOR PATTERN OF AVIATION ORANGE OR WHITE.**