verizon

COMMERCE

682 SW COMMERCE DR
LAKE CITY , FLORIDA 32025
(COLUMBIA COUNTY)

#106529

PROPOSED COMMUNICATION FACILITY CO-LOCATE ON AN EXISTING 184.818' GUYED TOWER

REV	DATE	DESCRIPTION
0	07/27/21	FINAL PLANS ISSUED

PROJECT NO.:	18-5031.1
DRAWN BY:	T. STEVENS
PROJECT MANAGER:	C. OCHOVA
CHECKED BY:	C. OCHOVA

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SMW ENGINEERING GROUP, INC.
TOGETHER PLANNING A BETTER TOMORROW
12979 N TELECOM PARKWAY
TEMPLE TERRACE, FL 33637
(813) 615-1422
CERTIFICATE OF AUTHORIZATION 33693

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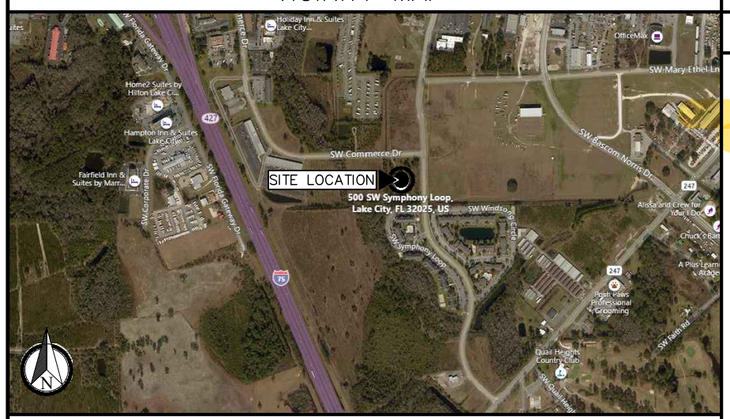
7701 EAST TELECOM PARKWAY
TEMPLE TERRACE, FLORIDA 33637

LOCAL MAP

VICINITY MAP



DRIVING DIRECTIONS

FROM COLUMBIA COUNTY,TRAVEL SOUTH ON I-75. TAKE EXIT 427 AND TURN LEFT ONTO US-90 EAST. TURN RIGHT ONTO SOUTHWEST COMMERCE DRIVE SITE IS LOCATED ON THE RIGHT HAND SIDE OF THE ROAD.

APPROVALS

PROPERTY OWNER _____
RF ENGINEER _____
CONSTRUCTION _____
SITE ACQUISITION _____
ZONING _____
NETWORK _____
OPERATIONS _____
CONTRACTOR _____

PROPERTY SUMMARY

FOLIO #:	02-4S-16-02717-000
LATITUDE:	30° 10' 26.42" N
LONGITUDE:	82° 40' 49.86" W
ZONING JURISDICTION:	COLUMBIA COUNTY

DESIGN CRITERIA

DESIGN WIND SPEED:	119 MPH (ULTIMATE 3-SEC GUST) 92 MPH (NOMINAL 3-SEC GUST)
EXPOSURE CATEGORY:	C
RISK CATEGORY:	II

CONTACTS

APPLICANT
VERIZON WIRELESS
7701 EAST TELECOM PARKWAY
TEMPLE TERRACE, FL 33637

PROPERTY OWNER CONTACT:
LANDLORD: COLUMBIA COUNTY RESOURCE, INC.
ADDRESS: PO BOX 1376
CITY, STATE, ZIP: LAKE CITY, FLORIDA 32056

SMW ENGINEERING GROUP INC. PROJECT MANAGER:
CURTIS OCHOVA 813-610-5737

APPLICABLE CODES

THE CONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) OVER 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: FLORIDA BUILDING CODE 7TH EDITION (2020).

NATIONAL ELECTRICAL CODE: 2017 EDITION.

ELECTRICAL CODE: NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70

MECHANICAL CODE: MECHANICAL CODE, 7TH EDITION.

FIRE CODE: FLORIDA FIRE PREVENTION CODE, 7TH EDITION.

LIFE SAFETY CODE: NFPA-101-2018

THE CONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS; AMERICAN CONCRETE INSTITUTE (ACI) 318-11 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE: AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), 14th EDITION: TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-G, STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES: TIA-607-B, COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS.

INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM: IEEE 1100 (2005) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRONIC EQUIPMENT.

IEEE C62.41, GUIDE ON THE SURGE ENVIRONMENT IN LOW-VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE").

TELCORDIA GR-1275, GENERAL INSTALLATION REQUIREMENTS: TELCORDIA GR-1503, COAXIAL CABLE CONNECTIONS: ANSI T1.311, FOR TELECOM – DC POWER SYSTEMS – TELECOM, ENVIRONMENTAL PROTECTION.

INDEX OF DRAWINGS

SHT. NO.	DESCRIPTION	REV. NO.
T1	TITLE SHEET	0
G1	GENERAL NOTES	0
C1	COMPOUND LAYOUT	0
C2	TOWER ELEVATION	0
C3	ANTENNA LAYOUT	0
C4	MW DISH SPECIFICATIONS	0

Columbia County Building Department
Plans Reviewed for Code Compliance
State of Florida

JEREMY SHARIT LICENSE No. 75137 STATE OF FLORIDA PROFESSIONAL ENGINEER
JEREMY D. SHARIT P.E. FL LICENSE 75137

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LAKE CITY , FLORIDA 32025
(COLUMBIA COUNTY)

SHEET NAME
TITLE SHEET

SHEET NUMBER
T1

1. FOR THE PURPOSES OF THESE CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:

   OWNER – VERIZON WIRELESS
   ENGINEER – SMW ENGINEERING GROUP INC.
   CONTRACTOR – GENERAL CONTRACTOR (CONSTRUCTION)

2. PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR SHALL VISIT THE JOB SITE IN ORDER TO (1) VERIFY ALL EXISTING CONDITIONS, (2) CONFIRM WHETHER ALL DIMENSIONS ARE AS SHOWN ON THE PLANS AND (3) CONFIRM WHETHER THE WORK MAY BE ACCOMPLISHED AS SHOWN. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER.

3. A 20–FOOT HORIZONTAL CLEARANCE DISTANCE SHALL BE MAINTAINED FROM ALL EXISTING POWER LINES.

4. THE CONTRACTOR'S USE OF A CONSTRUCTION STAGING AREA SHALL BE COORDINATED WITH THE OWNER WELL IN ADVANCE OF THE CONSTRUCTION START DATE.

5. LABOR, MATERIAL, TOOLS, EQUIPMENT, TRANSPORTATION AND TEMPORARY POWER SERVICES NECESSARY FOR AND INCIDENTAL TO COMPLETION OF ALL WORK SHALL BE PROVIDED AS INDICATED ON THE DRAWINGS AND/OR AS SPECIFIED HEREIN. LABOR AND MATERIALS SHALL BE FURNISHED AS REQUIRED FOR COMPLETE SYSTEMS, INCLUDING ALL ELEMENTS OBVIOUSLY OR REASONABLY INCIDENTAL TO A COMPLETE INSTALLATION, WHETHER OR NOT SPECIFICALLY INDICATED ON THE PLANS.

6. FOR TASKS REQUIRED TO BE PERFORMED BUT NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOT START WORK ON SUCH TASKS WITHOUT HAVING RECEIVED WRITTEN AUTHORIZATION FROM THE CONSTRUCTION MANAGER TO PROCEED.

7. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND EQUIPMENT UNLESS OTHERWISE INDICATED BY DIMENSIONS OR DETAILS. EXACT EQUIPMENT LOCATIONS MAY BE MODIFIED AS REQUIRED BY ACTUAL FIELD CONDITIONS. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE ENGINEER AND THE CONSTRUCTION MANAGER.

8. THE CONTRACTOR SHALL OBTAIN, PAY FOR AND DELIVER ALL REQUIRED PERMITS, CERTIFICATES OF INSPECTION, INCLUDING UTILITY CONNECTION FEES, ETC., REQUIRED BY THE AUTHORITIES HAVING JURISDICTION AND SHALL DELIVER SUCH DOCUMENTS TO THE OWNER PRIOR TO FINAL ACCEPTANCE OF THE WORK.

9. THE CONTRACTOR'S OPERATIONS SHALL BE CONFINED TO AREAS OF NEW CONSTRUCTION.

10. ALL NECESSARY PROVISIONS SHALL BE MADE TO PROTECT EXISTING IMPROVEMENTS, PAVING, CURBS, GALVANIZED SURFACES, ETC, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO SAME RESULTING FROM THE CONSTRUCTION WORK. ALL DISTURBED AND DAMAGED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR BETTER UPON COMPLETION OF ALL WORK TO THE SATISFACTION OF THE CONSTRUCTION MANAGER.

11. THE FOLLOWING CLEANUP TASKS SHALL BE PERFORMED AS FOLLOWS: (1) ON A DAILY BASIS, KEEP THE GENERAL AREA CLEAN AND HAZARD FREE, REMOVING ALL WASTE, DEBRIS AND TRASH FROM THE SITE AND DISPOSING OF SAME IN A LEGAL MANNER. (2) UPON COMPLETION, LEAVE THE PREMISES IN A CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.

12. ALL EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S RECOMMENDATIONS EXCEPT WHERE IT IS SPECIFICALLY INDICATED OTHERWISE IN THE CONTRACT DOCUMENTS OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.

13. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY HAVING JURISDICTION OVER THE PERFORMANCE OF THE WORK. MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AS WELL AS LOCAL AND STATE CODES, ORDINANCES AND APPLICABLE REGULATIONS.

14. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AT ALL TIMES, USING THE BEST SKILLS AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL OF THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK, INCLUDING CONTACT AND COORDINATION WITH THE CONSTRUCTION MANAGER AND WITH THE OWNER'S AUTHORIZED REPRESENTATIVE.

15. WITHIN TEN (10) WORKING DAYS AFTER PROJECT COMPLETION, THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF AS–BUILT DRAWINGS, SWEEP TEST, CYLINDER TESTS, LIEN RELEASES, AND OTHER CLOSEOUT DOCUMENTATION AS REQUIRED BY THE OWNER. ALL SYSTEMS SHALL BE COMPLETELY ASSEMBLED, TESTED, ADJUSTED AND DEMONSTRATED TO BE READY FOR OPERATION PRIOR TO THE OWNER'S ACCEPTANCE.

GENERAL NOTES | 1

1. THE APPROPRIATE UTILITY LOCATING SERVICES SHALL BE CONTACTED PRIOR TO THE START OF CONSTRUCTION IN ORDER TO VERIFY THE EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITIES.

2. THE INSTALLATION OF NEW UTILITIES SHALL BE COORDINATED WITH LOCAL AUTHORITIES.

3. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES. WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SUCH UTILITIES SHALL BE RELOCATED AS DIRECTED BY THE CONSTRUCTION MANAGER. EXTREME CAUTION SHALL BE USED WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES.

4. RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.

5. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES THAT INTERFERE WITH THE EXECUTION OF THE WORK SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS THAT WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF THE LANDLORD AND/OR LOCAL UTILITIES.

6. DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION SHALL BE MINIMIZED.

7. ANY AREAS OF THE CONSTRUCTION SITE DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE. SUCH GRADING SHALL CAUSE SURFACE WATER TO FLOW AWAY FROM ANY EQUIPMENT SHELTER AND TOWER AREAS AND THE SOIL SHALL BE STABILIZED TO PREVENT EROSION. EROSION CONTROL MEASURES,IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.

8. THE SUB–GRADE SHALL BE COMPACTED AND BROUGHT TO A UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.

9. BACKFILL SHALL CONSIST OF CLEAN SAND FILL APPROVED FOR USE BY THE ENGINEER. NO UNAPPROVED MATERIAL WILL BE ALLOWED. CLEAN SAND FILL SHALL BE FREE OF ALL ROOTS, BOULDERS, OR OTHER DELETERIOUS MATERIAL.

10. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO EQUAL TO OR BETTER CONDITION THAN ORIGINAL.

11. SITE SIGNAGE SHALL BE PROVIDED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS FOR SUCH SIGNAGE AS MAY BE CONTAINED IN THESE DRAWINGS.

SITE WORK NOTES | 2

STRUCTURAL STEEL NOTES | 3

REV	DATE	DESCRIPTION
0	07/27/21	FINAL PLANS ISSUED
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DRAWN BY:		T. STEVENS
PROJECT MANAGER:		C. OCHOVA
CHECKED BY:		C. OCHOVA

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CERTIFICATE OF AUTHORIZATION 33693

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COMMERCE

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682 SW COMMERCE DR
LAKE CITY , FLORIDA 32025
(COLUMBIA COUNTY)

SHEET NAME

GENERAL NOTES

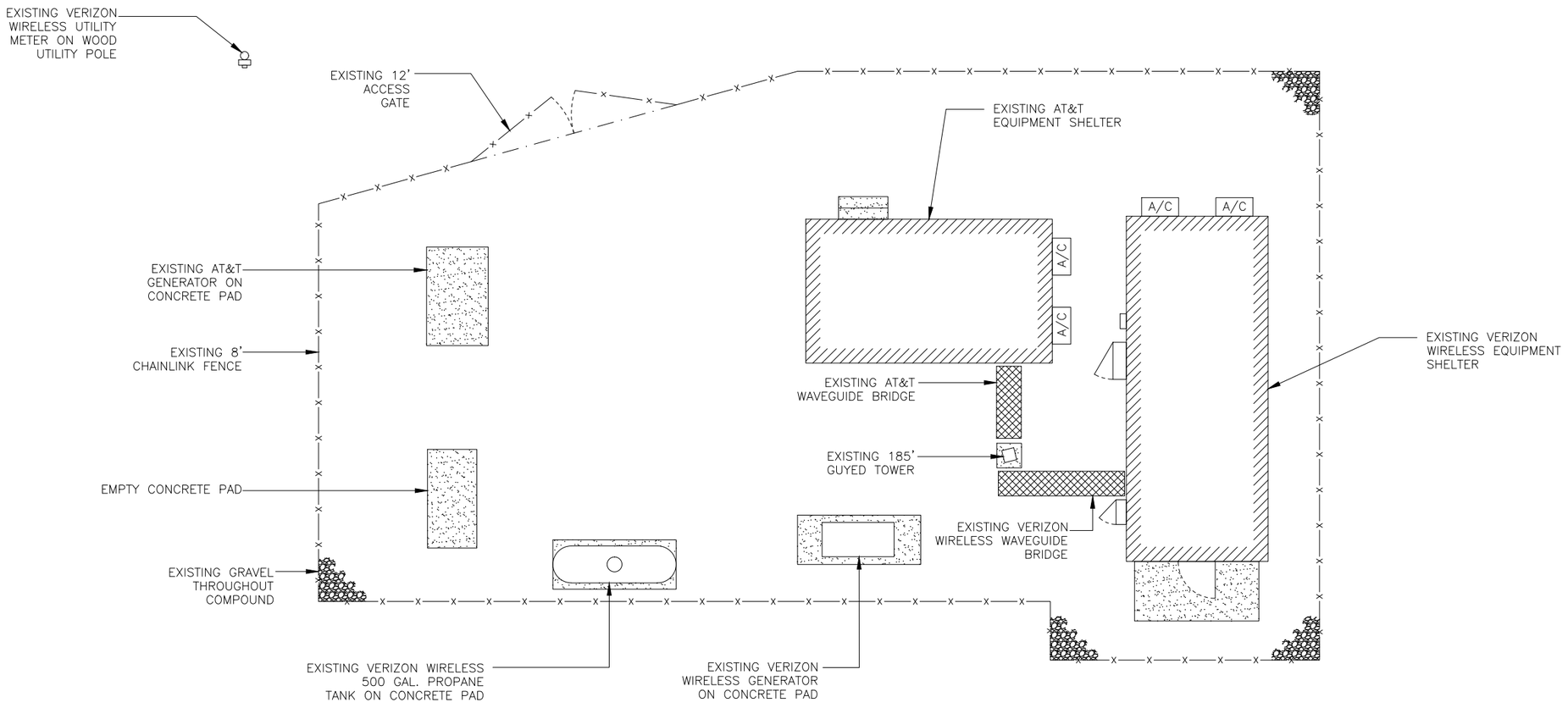
SHEET NUMBER

G1

32' 0' 16' 32'

FOR 24"x36" DRAWINGS
GRAPHIC SCALE: 1/16" = 1'-0"
FOR 11"x17" DRAWINGS
GRAPHIC SCALE: 1/32" = 1'-0"

NOTE:
PROPOSED MW EQUIPMENT TO BE INSTALLED INSIDE VERIZON WIRELESS SHELTER. EXACT LOCATION OF MW EQUIPMENT INSTALLATION TO BE VERIFIED BY VERIZON WIRELESS CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.



N

SITE PLAN NTS 1

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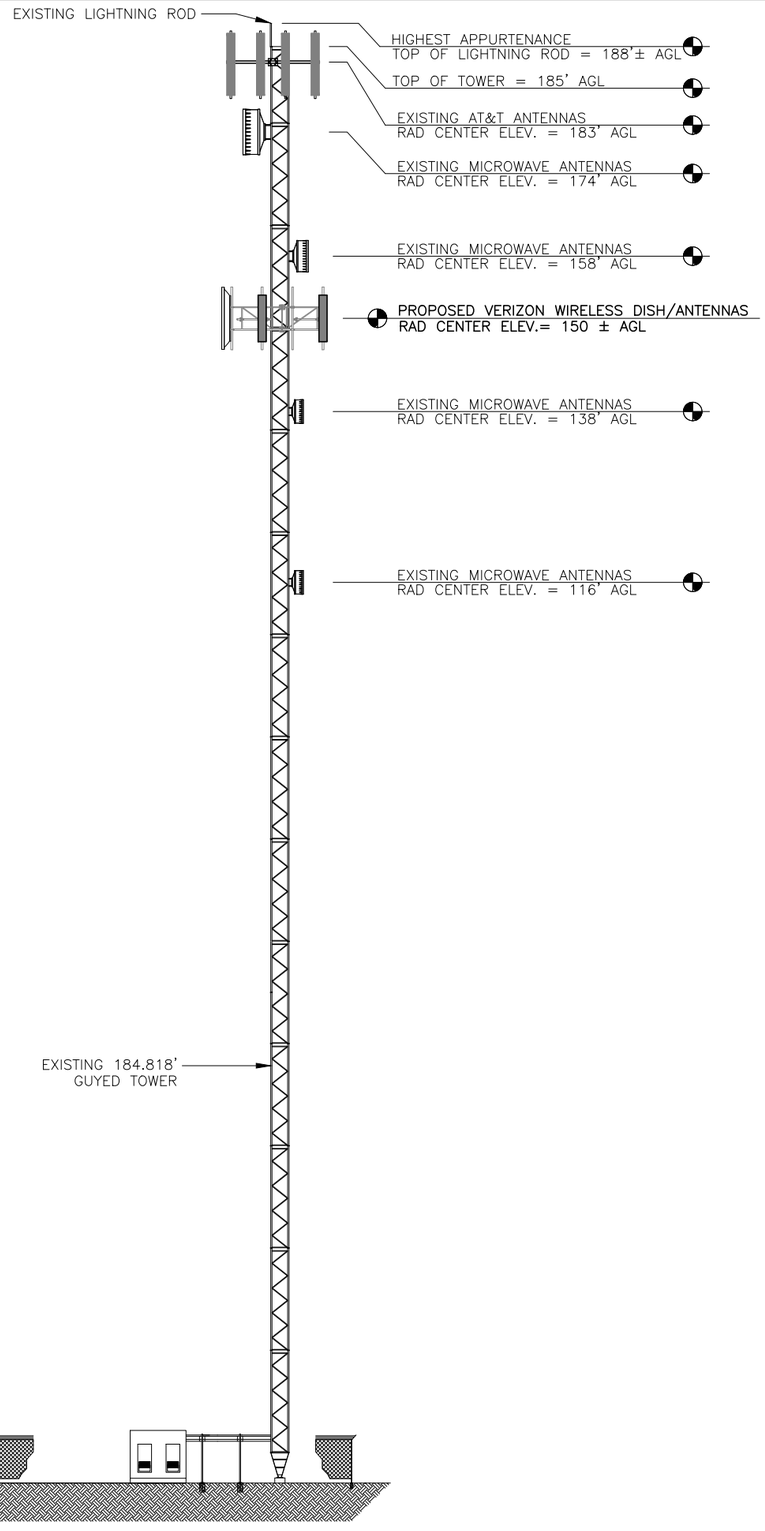
SHEET NAME
SITE PLAN

SHEET NUMBER
C1

20' 0' 10' 20'

FOR 24"x36" DRAWINGS
GRAPHIC SCALE: 1" = 10'
FOR 11"x17" DRAWINGS
GRAPHIC SCALE: 1" = 20'



N

TOWER ELEVATION

SCALE AS NOTED 1

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(COLUMBIA COUNTY)

SHEET NAME

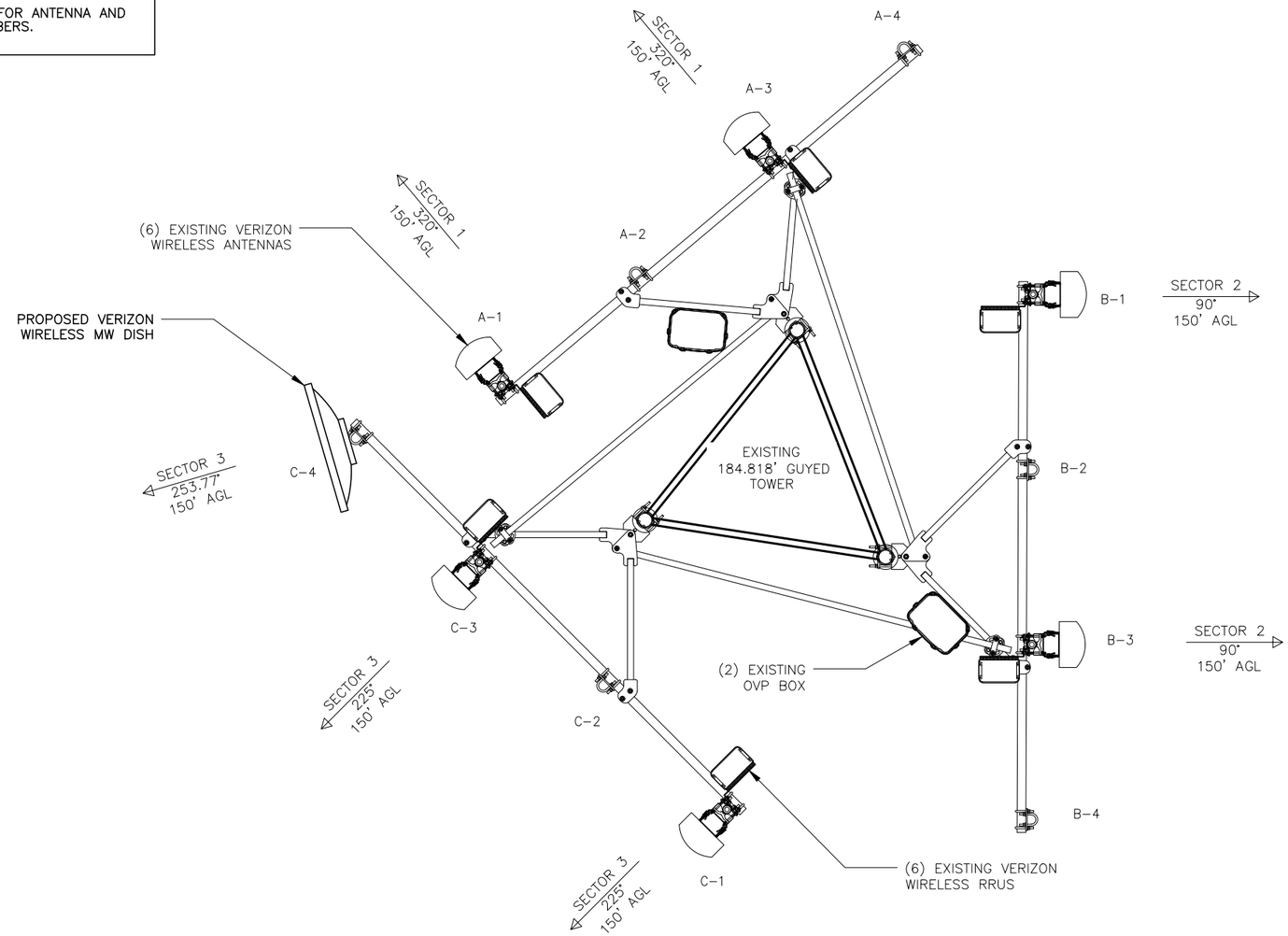
TOWER ELEVATION

SHEET NUMBER

C2

NOTES:

1. CONTRACTOR TO RELOCATE EXISTING ANTENNA IN POSITION 4 AS BELOW.
2. SEE CURRENT SA FOR ANTENNA AND RRUS MODEL NUMBERS.



ANTENNA & CABLE SCHEDULE

POS.	SECTOR	ANTENNA	RAD CENTER	CABLE SIZE	AZIMUTH	CABLE LENGTH	RADIO (MODEL #)
4	3	VHLPX3-11W DISH	150'	(2) LMR400	253.77°	177'±	(2) ODU600

PROPOSED ANTENNA LAYOUT/ ANTENNA SCHEDULE

NTS | 1

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SHEET NAME
ANTENNA DETAILS

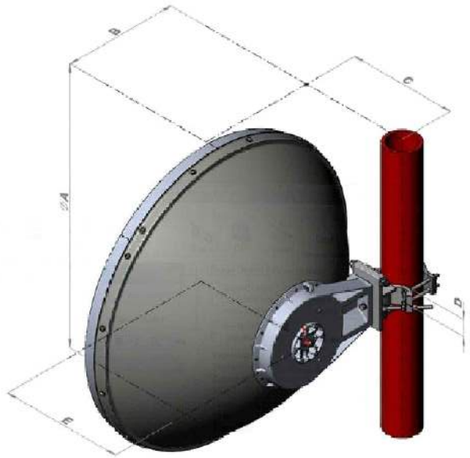
SHEET NUMBER
C3

Product Specifications

COMMSCOPE®

VHLPX3-11W-A

Antenna Dimensions And Mounting Information



Dimension in Inches (mm)					
Antenna size, ft (m)	A	B	C	D	E
3 (1.0)	39.3 (999)	16 (407)	15.2 (387)	2.4 (60)	17.2 (437)

* Footnotes

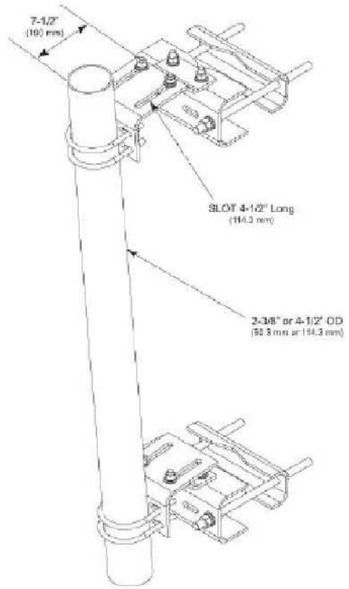
Axial Force (FA)	Maximum forces exerted on a supporting structure as a result of wind from the most critical direction for this parameter. The individual maximums specified may not occur simultaneously. All forces are referenced to the mounting pipe.
Cross Polarization Discrimination (XPD)	The difference between the peak of the co-polarized main beam and the maximum cross-polarized signal over an angle twice the 3 dB beamwidth of the co-polarized main beam.
Front-to-Back Ratio	Denotes highest radiation relative to the main beam, at 180° ±40°, across the band. Production antennas do not exceed rated values by more than 2 dB unless stated otherwise.
Gain, Mid Band	For a given frequency band, gain is primarily a function of antenna size. The gain of Andrew antennas is determined by either gain by comparison or by computer integration of the measured antenna patterns.
Operating Frequency Band	Bands correspond with CCIR recommendations or common allocations used throughout the world. Other ranges can be accommodated on special order.

Product Specifications

COMMSCOPE®

PM-SU4-63

Outline Drawing



Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system

Included Products

MT-653-63 — Plain End Pipe, 4-1/2 in OD x 63 in

PM-SL4 — Universal Taper Pipe Mount Slider Bracket for 4-1/2 in OD pipe

SM-U2080 — Universal Saddle Mount for straight or tapered legs up to 8 in OD, 8 in angle 60°, or 6 in angle 90°

* Footnotes

Wind Rating	BWS—Base Wind Speed; FBC—Florida Building Code

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SHEET NAME

MW DISH SPECIFICATIONS

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C4