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

APPROVALS LOCAL MAP DESIGN CRITERIA INDEX OF DRAWINGS DESIGN WIND SPEED: 119 MPH (ULTIMATE 3-SEC GUST) SHT. REV. DESCRIPTION PROPERTY OWNER 92 MPH (NOMINAL 3-SEC GUST) NO NO EXPOSURE CATEGORY: RF ENGINEER T1 TITLE SHEET 0 GENERAL NOTES 0 CONSTRUCTION COMPOUND LAYOUT 0 **CONTACTS** SITE ACQUISITION TOWER ELEVATION 0 ZONING **APPLICANT** ANTENNA LAYOUT VERIZON WIRELESS **NETWORK** MW DISH SPECIFICATIONS 7701 EAST TELECOM PARKWAY TEMPLE TERRACE, FL 33637 **OPERATIONS** CONTRACTOR PROPERTY OWNER CONTACT: COLUMBIA COUNTY RESOURCE, INC. PROPERTY SUMMARY PO BOX 1376 CITY, STATE, ZIP: LAKE CITY, FLORIDA 32056 FOLIO #: 02-4S-16-02717-000 LATITUDE: 30° 10' 26.42" N LONGITUDE: 82° 40' 49.86" W SMW ENGINEERING GROUP INC. PROJECT MANAGER: COLUMBIA COUNTY CURTIS OCHOVA 813-610-5737 VICINITY MAP 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 DRIVING DIRECTIONS IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM: IEEE 1100 (2005) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRONIC EQUIPMENT. FROM COLUMBIA COUNTY, TRAVEL SOUTH ON I-75. TAKE EXIT 427 AND TURN LEFT ONTO IEEE C62.41, GUIDE ON THE SURGE ENVIRONMENT IN LOW-VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND US-90 EAST. TURN RIGHT ONTO SOUTHWEST COMMERCE DRIVE SITE IS LOCATED ON THE "HIGH SYSTEM EXPOSURE"). RIGHT HAND SIDE OF THE ROAD.

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

0	07/27/21	F	INAL	PLANS ISS	JED
Р	ROJECT NO.:			18-5031.	1
	DRAWN BY:			T. STEVENS	S
PROJ	JECT MANAG	ER:		C. OCHOVA	4
	CHECKED BY	·		C. OCHOVA	\
	·			·	

DESCRIPTION

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12979 N TELECOM PARKWAY TEMPLE TERRACE, FL 33637 (813) 615-1422

CERTIFICATE OF AUTHORIZATION 33693



7701 EAST TELECOM PARKWAY



JEREMY D. SHARIT P.E. FL LICENSE 7513

COMMERCE

106529
682 SW COMMERCE DR
LAKE CITY , FLORIDA 32025
(COLUMBIA COUNTY)

TITLE SHEET

SHEET NUMBER

Τ1

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

OWNER - VERIZON WIRELESS

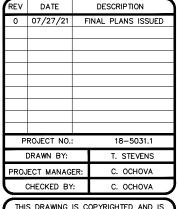
ENGINEER - SMW ENGINEERING GROUP INC.

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.

- 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.
- . 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.
- . 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.
- 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.
- THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO EQUAL TO OR BETTER CONDITION THAN ORIGINAL.
- 1. 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



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CERTIFICATE OF AUTHORIZATION 33693



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COMMERCE

106529

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SHEET NAME

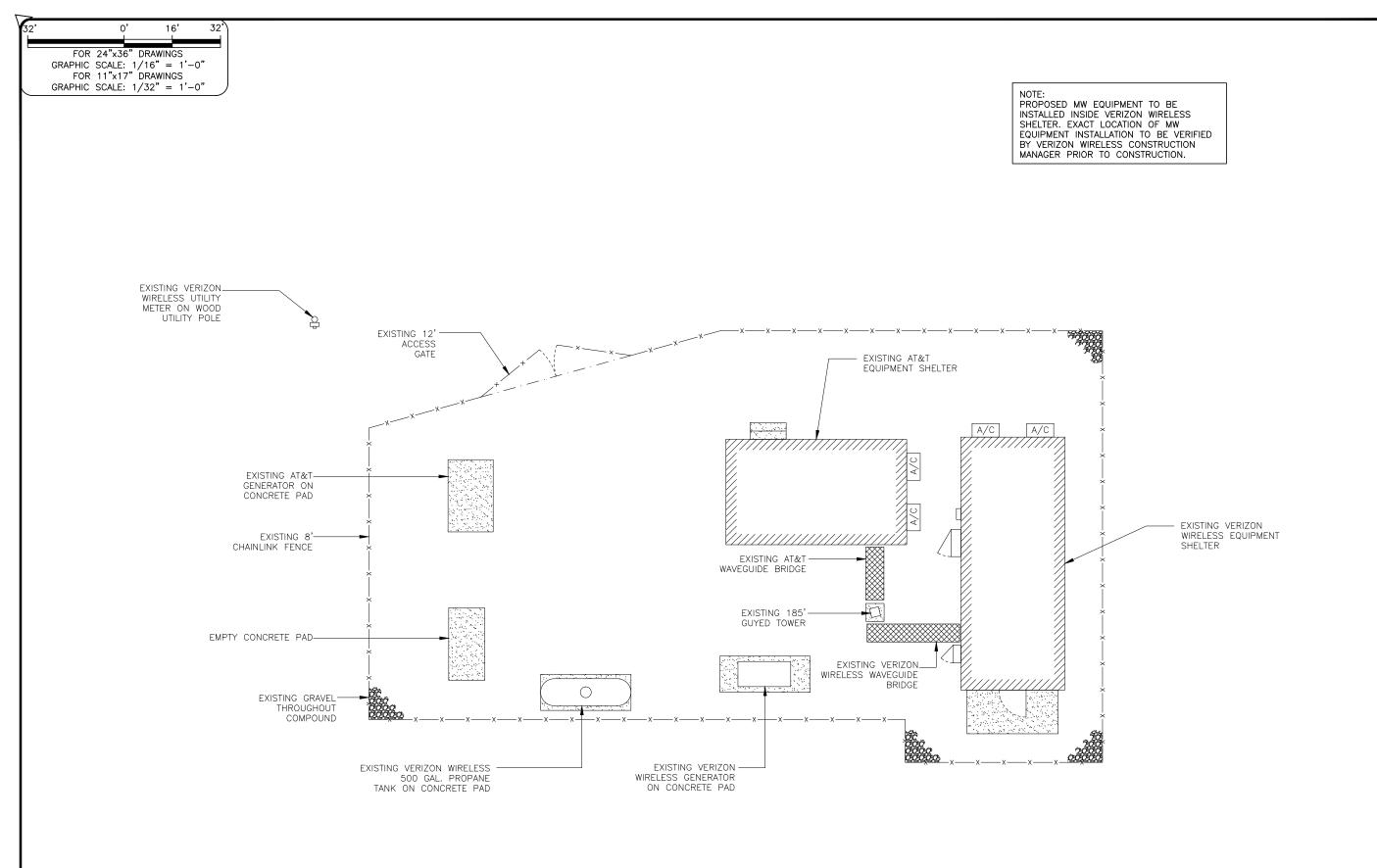
GENERAL NOTES

SHEET NUMBER

G 1

GENERAL NOTES 1 STRUCTURAL STEEL NOTES

AL STEFL NOTES



REV	DATE	DESCRIPTION		
0	07/27/21	FINAL PLANS ISSUED		
Р	ROJECT NO.:	: 18-5031.1		
	DRAWN BY:	T. STEVENS		
PROJ	ECT MANAG	ER: C. OCHOVA		
	CHECKED BY	C. OCHOVA		

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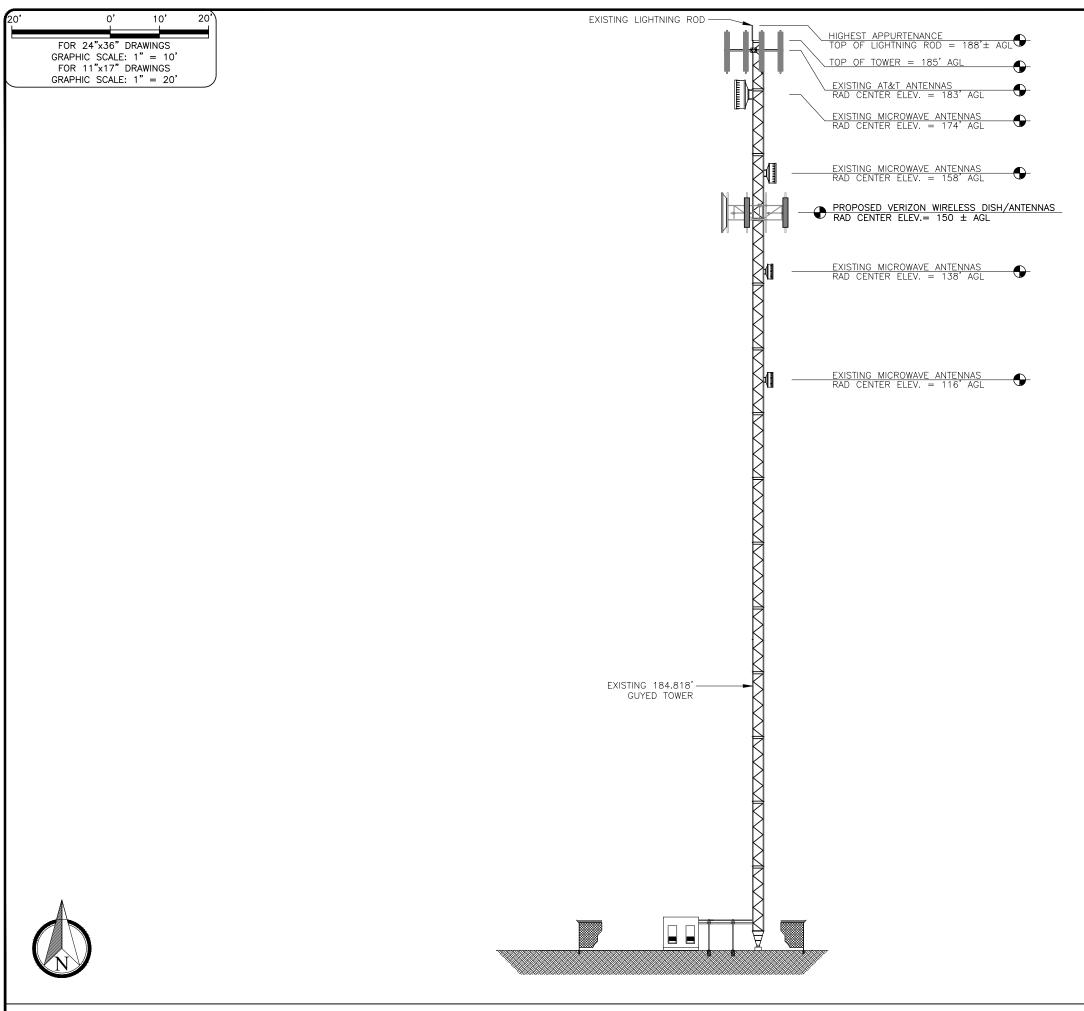
SHEET NAME

SITE PLAN

SHEET NUMBER

C 1

SITE PLAN



ì	REV	DATE	DESCRIPTION		
	0	07/27/21	FINAL PLANS ISSUED		
	PROJECT NO.:			18-5031.1	
	DRAWN BY:			T. STEVENS	
	PROJECT MANAGER:		R:	C. OCHOVA	
	CHECKED BY:			C. OCHOVA	

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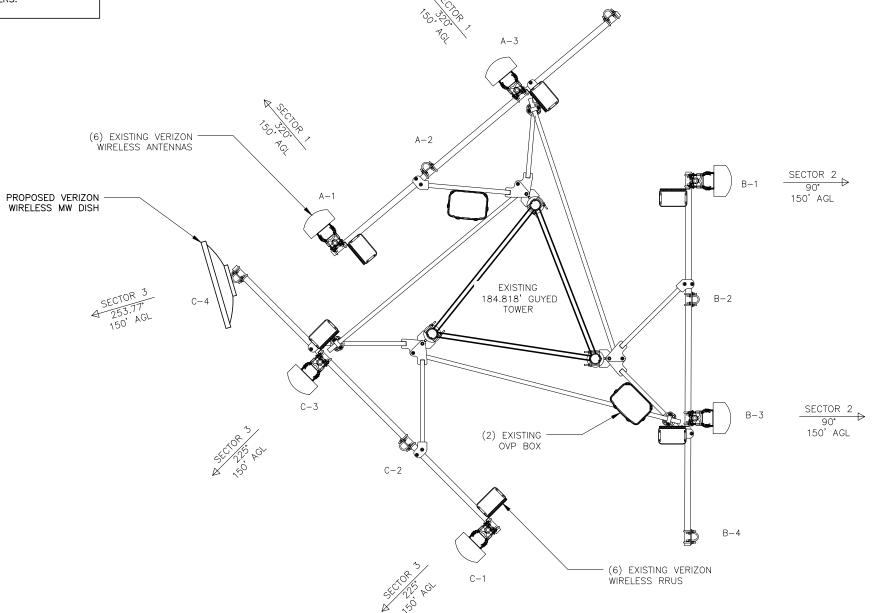
SHEET NAME

TOWER ELEVATION

SHEET NUMBER

C2

- 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	

A-4

REV	DATE	DESCRIPTION			
0	07/27/21	FINAL PLANS ISSUED			
Р	PROJECT NO.:		-5031.1		
	DRAWN BY:		STEVENS		
PROJ	PROJECT MANAGER:		OCHOVA		
	CHECKED BY:		C. OCHOVA		

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106529 682 SW COMMERCE DR LAKE CITY , FLORIDA 32025 (COLUMBIA COUNTY)

> SHEET NAME ANTENNA

DETAILS

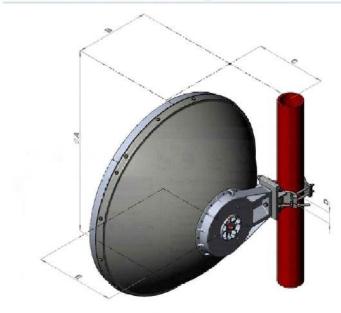
SHEET NUMBER

Product Specifications

COMMSCOPE®

VH.PX3-11W/A

Antenna Dimensions And Mounting Information



Dimension in Inches (mm)							
Antenna size, ft (m)	Α	В	D	D	E		
3 (1.0)	39.3 (999)	16 (497)	15 2 (387)	2.4 (90)	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.

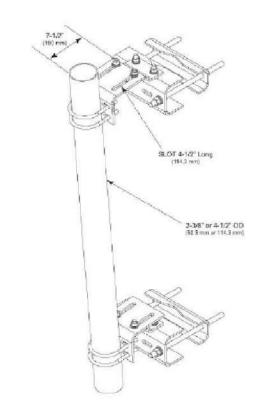
Operating Frequency Band

Bands correspond with CCIR recommendations or common allocations used throughout the world. Other ranges can be accommodated on special order.

Product Specifications

PM-SU4-53

Outline Drawing



Regulatory Compliance/Certifications

gency

Classification

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

PROJECT NO.: 18–5031.1

DRAWN BY: T. STEVENS

PROJECT MANAGER: C. OCHOVA

CHECKED BY: C. OCHOVA

COMMSCSPE*

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SHEET NAME

MW DISH
SPECIFICATIONS

SHEET NUMBER

С4

MW DISH SPECIFICATIONS

NTS

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