

RESOLUTION NO. _____

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MESQUITE, TEXAS, APPROVING THE TERMS AND CONDITIONS OF THE SEVENTH AMENDMENT TO THE COMMUNICATIONS FACILITIES LICENSE WITH CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS (“LICENSE AGREEMENT”), TO AMEND THE SITE PLAN TO REFLECT UPDATED EQUIPMENT LOCATED ON THE CITY’S SERVICE CENTER COMMUNICATIONS TOWER, AS SPECIFIED IN THE LICENSE AGREEMENT; AND AUTHORIZING THE CITY MANAGER TO EXECUTE AND ADMINISTER THE LICENSE AGREEMENT ON BEHALF OF THE CITY.

WHEREAS, the City of Mesquite (the “City”) and Dallas MTA, L.P., d/b/a Verizon Wireless entered into a Communications Facilities License on October 13, 1997 (the “Agreement”); and

WHEREAS, the Agreement was previously amended on June 5, 2012, March 19, 2015, July 30, 2015, July 18, 2017, March 7, 2018, and December 3, 2018, and

WHEREAS, Dallas MTA, L.P., d/b/a Verizon Wireless was dissolved by operation of law effective December 31, 2018, and its assets and liabilities, including the Agreement, were redistributed to Cellco Partnership d/b/a Verizon Wireless (“Licensee”); and

WHEREAS, Licensee is requesting a seventh amendment to the Agreement that will allow Licensee to amend the site plan to reflect updated equipment located on the City’s Service Center Communications Tower.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF MESQUITE, TEXAS:

SECTION 1. That the terms and conditions of the Seventh Amendment to Communications Facilities License (the “Amendment”), attached hereto as Exhibit A, are found to be acceptable and in the best interest of the City and its citizens, and are hereby approved.

SECTION 2. That the City Manager is hereby authorized to finalize and execute the Amendment and all other documents necessary to consummate the transactions contemplated by the Amendment.

SECTION 3. That the City Manager is further hereby authorized to administer the Agreement, as amended, on behalf of the City including, without limitation, the City Manager shall have the authority to: (i) provide any notices required or permitted by the Agreement; (ii) approve minor amendments to the Agreement provided such amendments do not change either party’s use of the property or change the rent charged; (iii) exercise any rights and remedies available to the City under the Agreement; and (iv) execute any notices, amendments, approvals, consents, denials, and waivers authorized by the Agreement.

DULY RESOLVED by the City Council of the City of Mesquite, Texas, on the 6th day of December 2021.

Daniel Alemán, Jr.
Mayor

ATTEST:

Sonja Land
City Secretary

APPROVED AS TO LEGAL FORM:



David L. Paschall
City Attorney

EXHIBIT A

**SEVENTH AMENDMENT TO THE
COMMUNICATIONS FACILITIES LICENSE AGREEMENT
BETWEEN**

**THE CITY OF MESQUITE, TEXAS, AND
CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS**

Licensee Site Name: Samuel Park
Licensee Contract No.: 25519

SEVENTH AMENDMENT TO COMMUNICATIONS FACILITIES LICENSE

This SEVENTH AMENDMENT TO COMMUNICATIONS FACILITIES LICENSE ("**Seventh Amendment**"), dated as of the Effective Date (as hereinafter defined), is by and between the **City of Mesquite**, a Texas home rule municipality, having a mailing address of 1515 N. Galloway Avenue, Mesquite, TX 75149 ("**City**") and **Cellco Partnership d/b/a Verizon Wireless**, having a principal office located at One Verizon Wireless Way, Mail Stop 4AW100, Basking Ridge, New Jersey 07920 ("**Licensee**").

WHEREAS, City and Dallas MTA, L.P. d/b/a Verizon Wireless entered into a Communications Facilities License dated October 13, 1997, whereby City licensed to Licensee use of certain premises therein described that are a portion of the premises owned by the City located at 1101 E. Main Street, Mesquite, Texas 75149 (the "**Original License Agreement**"); and

WHEREAS, the Original License Agreement has been amended by: (i) the First Amendment to Communications Facilities License dated as of June 5, 2012 ("**First Amendment**"); (ii) the Second Amendment to Communications Facilities License dated as of March 19, 2015 ("**Second Amendment**"); (iii) the Third Amendment to Communications Facilities License dated as of July 30, 2015 ("**Third Amendment**"); (iv) the Fourth Amendment to Communications Facilities License dated as of July 18, 2017 ("**Fourth Amendment**"); (v) the Fifth Amendment to Communications Facilities License dated March 7, 2018 ("**Fifth Amendment**"); and (vi) the Sixth Amendment to Communications Facilities License dated March 5, 2019 ("**Sixth Amendment**"); and

WHEREAS, the Original License Agreement, as amended by the First Amendment, the Second Amendment, the Third Amendment, the Fourth Amendment, the Fifth Amendment, and the Sixth Amendment are collectively referred to in this Seventh Amendment as the "**Agreement**"; and

WHEREAS, all capitalized terms used in this Seventh Amendment but not defined herein have the same meanings as defined in the Agreement; and

WHEREAS, pursuant to Assistant Secretary's Certificate dated January 14, 2019, Dallas MTA, L.P. was dissolved by operation of law effective December 31, 2018 and its assets and liabilities redistributed to Cellco Partnership; and

WHEREAS, the City and Licensee desire to further amend the Agreement as more fully set forth herein.

NOW THEREFORE, in consideration of the foregoing and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, City and Licensee agree as follows:

1. **Amendment of Site Plan.** The SITE PLAN attached as Attachment A-2(B) to the Sixth Amendment is hereby deleted and replaced with **Attachment A-2(C)**, attached hereto and incorporated herein by reference. As of the Effective Date, all references in the Agreement to Attachment A-2, Attachment A-2(A), and Attachment A-2(B) are references to Attachment A-2(C).

2. **Amendment of Equipment Compound and Antenna Facilities.** The list of Equipment and Compound Facilities attached as Attachment B-5 to the Sixth Amendment is hereby deleted and replaced with **Attachment B-6**, attached hereto and incorporated herein by reference. As of the Effective Date, all references in the Agreement to Attachments B, B-1, B-2, B-3, B-4, and B-5 are references to Attachment B-6.

3. **Equipment.** From and after the Effective Date, the City agrees that Licensee may install the equipment described in Attachment B-6 on the Premises.

4. **Permitted Antenna Facilities and Equipment.** From and after the Effective Date, the Antenna Facilities and equipment permitted under the terms of the Agreement are limited to the Antenna Facilities and equipment described in Attachment B-6.

5. **Other Terms and Conditions Remain.** In the event of any inconsistencies between the Agreement and this Seventh Amendment, the terms of this Seventh Amendment shall control. This Seventh Amendment amends the Agreement in no other manner except as expressly set forth herein. The Parties acknowledge and agree that Exhibit A-3 of the Agreement has not been revised in any way by this Amendment. Except as expressly set forth in this Seventh Amendment, the Agreement is unmodified and remains in full force and effect. Each reference to the "Agreement" in the Agreement shall be deemed to refer to the Original License Agreement, as amended by the First Amendment, the Second Amendment, the Third Amendment, the Fourth Amendment, the Fifth Amendment, the Sixth Amendment, and this Seventh Amendment.

6. **Effective Date.** This Seventh Amendment shall not be effective unless and until it is executed by both the City and the Licensee. "**Effective Date**" as used herein means the later of the two dates this Seventh Amendment is executed by the City and Licensee.

7. **Signing Authority.** City and Licensee each warrant to the other that the person executing this Seventh Amendment on behalf of the warranting party has the full right, power

and authority to enter into, and execute, this Seventh Amendment on that party's behalf, and that no consent from any other person or entity is necessary as a condition precedent to the legal effect of this Seventh Amendment.

8. **Entire Agreement.** This Seventh Amendment, together with its attachments, sets forth the entire agreement of the parties with respect to the matters set forth herein. There are no oral agreements between the parties.

[Signatures on following page]

IN WITNESS WHEREOF, the City and the Licensee have executed this Seventh Amendment on the dates set forth below:

CITY:

City of Mesquite,
a Texas home rule municipality

By: _____

Printed Name: _____

Title: _____

Date: _____

APPROVED AS TO FORM:

By: _____

Printed Name: _____

Title: _____

Date: _____

LICENSEE:

Cellco Partnership d/b/a Verizon Wireless

By:  _____
F053F9A95E85492...

Amanda Eastin

Verizon Sr. Manager – Central Texas
Modifications, Small Cells, MLA &
Community Outreach

Nov 18, 2021
Date: _____

ATTACHMENT A-2(C)

Site Plan

(See attached)

verizon

5G L-SUB 6 PROJECT

SITE NAME:
LOCATION CODE:
STRUCTURE TYPE:

SAMUEL_PARK
104821
250'-0" SELF-SUPPORT TOWER

STATE OF TEXAS

ALEXANDER HERSHEY

128023

LICENSED PROFESSIONAL ENGINEER

08/31/2021

KGI WIRELESS, INC. TEXAS FIRM NO. F-15692
FIRM REGISTRATION RENEWAL 12/31/2021
PE LICENSE RENEWAL 06/30/2022

verizon

KGI

KGI WIRELESS, INC.
ENGINEERING

805 LAS CIMAS PKWY
BUILDING THREE, SUITE 370
AUSTIN, TX 78746
512.345.9595

SITE NAME
SAMUEL_PARK

LOCATION CODE
104821

SITE ADDRESS:
1101 E MAIN ST
MESQUITE, TX 75149

THESE DRAWINGS ARE THE PROPERTY OF
VERIZON WIRELESS. THEY ARE INTENDED FOR
THE EXCLUSIVE USE OF THIS PROJECT ONLY.
ANY RE-USE OF THESE PLANS (DRAWINGS)
WITHOUT THE EXPRESS WRITTEN CONSENT OF
VERIZON WIRELESS IS PROHIBITED.

ISSUED FOR:

DATE

PERMITTING REV 004/01/2021

PERMITTING REV 108/31/2021

REVISION

NO	DESCRIPTION	BY	DATE
1	UPDATE OVP'S AND CABLES	RA	08/31/2021

SHEET TITLE:

TITLE SHEET

SHEET NUMBER:

T1

PROJECT SUMMARY

LATITUDE:32° 46' 07.42" N

LONGITUDE:96° 35' 10.95" W

GROUND ELEVATION:± 508.5' AMSL

SITE ADDRESS:1101 E MAIN ST
MESQUITE, TX 75149
DALLAS COUNTY

CONSTRUCTION TYPE: UNMANNED TELECOMMUNICATIONS

JURISDICTION:CITY OF MESQUITE

CONTACTS

APPLICANT:
VERIZON WIRELESS
5804 TRI COUNTY PARKWAY
SCHERTZ, TX 78154
CONTACT: DANNY DELEON
PHONE: 806.281.3853

SITE ACQUISITION:
KGI WIRELESS, INC.
BUILDING THREE, SUITE 370
805 LAS CIMAS PKWY.
AUSTIN, TX 78746
PHONE: 512.345.9595

ENGINEER:
KGI WIRELESS, INC.
BUILDING THREE, SUITE 370
805 LAS CIMAS PKWY.
AUSTIN, TX 78746
TYLER BOLINGER, P.E.
PRINCIPAL ENGINEER
PHONE: 512.334.3256

UTILITY PROVIDER
AT SITE

VICINITY MAP



TEAM SIGN-OFF

SITE ACQUISITIONDATE

CONSTRUCTION SUPERVISORDATE

RF ENGINEERINGDATE

EQUIPMENTDATE

TELCODATE

CONSTRUCTION MANAGERDATE

THE ABOVE PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND MAY IMPOSE CHANGES OR MODIFICATIONS.

DRAWINGS INDEX

GENERAL SHEETS	REVISION
T1TITLE SHEET	1
GN1GENERAL NOTES	0
CIVIL PLANS	
C1SITE PLAN	1
C2TOWER ELEVATION AND ANTENNA PLANS	1
C3EQUIPMENT MOUNTING DETAILS	1
RF INFORMATION	
RF1ANTENNA SPECIFICATIONS	0
RF2PROPOSED EQUIPMENT SPECS	0
RF3PROPOSED EQUIPMENT SPECS	0
RF4PROPOSED EQUIPMENT SPECS	0
ATTACHMENTS:	
MOUNT MODIFICATION DESIGN BY T.E.S., DATED 08/26/2021	

THESE DRAWINGS ARE FOR PERMITTING AND CONSTRUCTION PURPOSES

NOTE: DRAWING SCALES ARE FOR 11"x17" SHEETS UNLESS OTHERWISE NOTED.

SCOPE OF WORK

1) THIS WIRELESS COMMUNICATIONS FACILITY IS NOT INTENDED FOR HUMAN OCCUPANCY

2) THIS FACILITY DOES NOT REQUIRE POTABLE WATER AND WILL NOT PRODUCE ANY SEWAGE.

3) THE SCOPE OF WORK CONSISTS OF MODIFYING THE EXISTING WIRELESS INSTALLATION:

A. REMOVE (6) RRHS (REMOTE RADIO HEADS)

B. REMOVE (10) COAX CABLES

C. REMOVE (2) HYBRID CABLES

D. INSTALL (3) ANTENNAS

E. INSTALL (6) RRHS

F. INSTALL (4) HYBRID DISTRIBUTION BOXES

G. INSTALL (2) HYBRID CABLES

APPLICABLE CODES & STANDARDS

INTERNATIONAL BUILDING CODE, 2015 EDITION
AS ADOPTED BY LOCAL JURISDICTION

NATIONAL ELECTRICAL CODE, 2014 EDITION
AS ADOPTED BY LOCAL JURISDICTION

811 Know what's below.
Call before you dig.

GENERAL NOTES

1. THE CONTRACTOR SHALL SUPERVISE AND DIRECT ALL WORK USING HIS BEST SKILL AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER CONTRACT.
2. THE CONTRACTOR SHALL VISIT THE JOB SITE TO REVIEW THE SCOPE OF WORK AND EXISTING JOB SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO, MECHANICAL, ELECTRICAL SERVICE, AND OVERALL CONDITION.
3. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO SUBMITTING HIS BID. ANY DISCREPANCIES, CONFLICTS OR OMISSIONS, ETC. SHALL BE REPORTED TO VERIZON BEFORE PROCEEDING WITH THE WORK.
4. THE CONTRACTOR SHALL PROTECT ALL AREAS FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE TO NEW AND EXISTING CONSTRUCTION, STRUCTURE, OR EQUIPMENT SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF THE TENANT OR BUILDING OWNER, OR OWNER’S REPRESENTATIVE AT THE EXPENSE OF THE CONTRACTOR.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR, AND SHALL REPLACE OR REMEDY ANY FAULTY, IMPROPER, OR INFERIOR MATERIALS OR WORKMANSHIP OR ANY DAMAGE WHICH SHALL APPEAR WITHIN ONE YEAR AFTER THE COMPLETION AND ACCEPTANCE OF THE WORK UNDER THIS CONTRACT.
6. THE CONTRACTOR SHALL REMOVE ALL RUBBISH AND WASTE MATERIALS ON A REGULAR BASIS, AND SHALL EXERCISE STRICT CONTROL OVER JOB CLEANING THROUGHOUT CONSTRUCTION, INCLUDING FINAL CLEAN–UP UPON COMPLETION OF WORK. ALL AREAS ARE TO BE LEFT IN A BROOM CLEAN CONDITION AT THE END OF EACH DAY.
7. THE CONTRACTOR SHALL SAFEGUARD THE OWNER’S PROPERTY DURING CONSTRUCTION AND SHALL REPLACE ANY DAMAGED PROPERTY OF THE OWNER TO ORIGINAL CONDITION OR BETTER.
8. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES, WHETHER SHOWN HEREIN OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSES FOR REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED IN CONJUNCTION WITH THE EXECUTION OF WORK.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE SITE WHILE THE JOB IS IN PROGRESS AND UNTIL THE JOB IS COMPLETED PER CHAPTER 44 OF THE U.B.C.
10. THE CONTRACTOR DURING CONSTRUCTION SHALL PROVIDE TEMPORARY WATER, POWER, AND TOILET FACILITIES AS REQUIRED BY THE CITY OR GOVERNING AGENCY.
11. ALL CONSTRUCTION WORK SHALL CONFORM TO THE U.B.C. AND ALL OTHER GOVERNING CODES, ALONG WITH THE GOVERNING RESTRICTIVE CODES.
12. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL COMPLY WITH ALL LOCAL CODE REGULATIONS AND STATE DEPARTMENT OF INDUSTRIAL REGULATIONS AND DIVISION OF INDUSTRIAL SAFETY (OSHA) REQUIREMENTS.
13. THE CONTRACTOR SHALL OBTAIN AND PAY FOR PERMITS, LICENSES, AND INSPECTIONS NECESSARY FOR PERFORMANCE OF THE WORK AND INCLUDE THOSE IN THE COST OF THE WORK TO THE OWNER.
14. FIGURED DIMENSIONS HAVE PRECEDENCE OVER DRAWINGS SCALE AND DETAIL DRAWINGS HAVE PRECEDENCE OVER SMALL SCALE DRAWINGS. CHECK ACCURACY OF ALL DIMENSIONS IN THE FIELD. UNLESS SPECIFICALLY NOTED, DO NOT FABRICATE ANY MATERIALS OFF–SITE, OR DO ANY CONSTRUCTION UNTIL THE ACCURACY OF DRAWINGS DIMENSIONS HAS BEEN VERIFIED AGAINST ACTUAL FIELD DIMENSIONS.
15. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITHIN THE CONTRACT DOCUMENTS WITH THE CONTRACT DOCUMENTS AND THE FIELD CONDITIONS PRIOR TO EXECUTING THE WORK IN QUESTION.
16. CONTRACTOR SHALL NOTIFY THE ENGINEER IF DETAILS ARE CONSIDERED UNSOUND, UNSAFE, NOT WATERPROOF, OR NOT WITHIN THE CUSTOMARY TRADE PRACTICE. IF WORK IS PERFORMED, IT WILL BE ASSUMED THAT THERE IS NO OBJECTION TO THE DETAIL. DETAILS ARE INTENDED TO SHOW THE END RESULT OF THE DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB CONDITIONS, AND SHALL BE INCLUDED AS PART OF THE WORK.
17. EXISTING ELEVATIONS AND LOCATIONS TO BE JOINED SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION. IF THEY DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT MODIFICATIONS CAN BE MADE BEFORE PROCEEDING WITH THE WORK.
18. ALL SYMBOLS AND ABBREVIATIONS USED IN THE DRAWINGS ARE CONSIDERED CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS QUESTIONS REGARDING THEIR EXACT MEANING, THE ENGINEER SHALL BE NOTIFIED FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
19. CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, HANGERS OR OTHER SUPPORT FOR ALL OTHER ITEMS REQUIRING THE SAME.
20. CITY APPROVED PLANS SHALL BE KEPT IN A PLAN BOX AND SHALL NOT BE USED BY WORKMEN. ALL CONSTRUCTION SETS SHALL REFLECT THE SAME INFORMATION. THE CONTRACTOR SHALL ALSO MAINTAIN, IN GOOD CONDITION, ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA AND OTHER CHANGE ORDERS ON THE PREMISE AT ALL TIMES. THESE ARE TO BE UNDER THE CARE OF THE JOB SUPERINTENDENT.
21. ALL CONDUITS AND CABLE RUNS ARE DRAWN DIAGRAMMATICALLY. CONTRACTOR SHALL RUN CONDUITS AND CABLES IN COMPLIANCE WITH THE NATIONAL ELECTRIC CODE ALONG THE BEST POSSIBLE ROUTE. THE INSTALLATION OF CONDUITS AND CABLES WILL FOLLOW THE DRAWINGS AS TO SUPPORT AND EQUIPMENT.

22. KGI’S SCOPE OF WORK DOES NOT INCLUDE A STRUCTURAL EVALUATION OF THE SITE. THUS, APPURTENANCE, EQUIPMENT, AND TRANSMISSION CABLES SHOWN ON THESE DRAWINGS ARE SCHEMATIC AND FOR REFERENCE ONLY. A STRUCTURAL EVALUATION OF THE SITE STRUCTURE, ANTENNA MOUNTINGS AND HARDWARE SHOULD BE PERFORMED AND RECOMMENDATIONS IMPLEMENTED PRIOR TO THE INSTALLATION OF THIS SCOPE OF WORK. THENCE, INFORMATION INDICATED IN THE STRUCTURAL ANALYSIS REGARDING FINAL APPURTENANCE/EQUIPMENT/CABLE ARRANGEMENT AND DETAILS SUPERCEDES THESE DRAWINGS.

EQUIPMENT NOTES

1. ALL RADIO EQUIPMENT PLACEMENT AND INSTALLATION IS BY AN EQUIPMENT SUPPLIER WHO IS RESPONSIBLE FOR COORDINATING HIS WORK WITH THE WORK OF OTHERS AS IT RELATES TO THE RADIO EQUIPMENT.

TENANT IMPROVEMENT NOTES

1. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2–A OF 2–A108C WITHIN 75 FEET OF TRAVEL DISTANCE TO ALL POTIONS OF THE BUILD OUT AREA DURING CONSTRUCTION.
2. ANY ALTERATION TO EXISTING FIRE PROTECTION FACILITIES WILL REQUIRE CLEARANCE AND PERMITS FROM THE GOVERNING FIRE DEPARTMENT AND OTHER AGENCIES BY A LICENSED FIRE PROTECTION CONTRACTOR.

ANTENNA NOTES

1. ANTENNA CONTRACTOR SHALL ENSURE THAT ALL ANTENNA MOUNTING PIPES ARE PLUMB.
2. COAXIAL FEEDER AND FIBER LENGTHS INDICATED ARE APPROXIMATE.
3. ANTENNA COAXIAL FEEDERS AND ANTENNA JUMPERS SHALL BE COLOR CODED PER VERIZON REQUIREMENTS.
4. MULTI–PORT ANTENNAS: TERMINATE UNUSED ANTENNA PORTS WITH CONNECTOR CAP AND WEATHERPROOF THOROUGHLY. JUMPERS FROM TMA’S MUST TERMINATE TO OPPOSITE POLARIZATIONS IN EACH SECTOR.
5. CONTRACTOR MUST FOLLOW ALL MANUFACTURER’S RECOMMENDATIONS REGARDING THE INSTALLATION OF COAXIAL CABLES, CONNECTORS, AND ANTENNAS.
6. CONTRACTOR SHALL RECORD THE SERIAL#, SECTOR, AND POSITION OF EACH ANTENNA AND ACTUATOR INSTALLED AT THE ANTENNAS AND FURNISH THE INFORMATION TO VERIZON.
7. ANTENNA CONTRACTOR SHALL PERFORM A “TAPE DROP” MEASUREMENT TO CONFIRM/VALIDATE ANTENNA CENTERLINE (ACL) HEIGHT. CONTRACTOR SHALL SUBMIT A COMPLETED HEIGHT VERIFICATION FORM TO THE CONSTRUCTION MANAGER.
8. ALL FIBER RUNS TO BE CONTAINED IN A SINGLE HYBRID DC POWER/FIBER CABLE FROM UPPER OVP TO LOWER OVP (COLOR CODE COAX JUMPERS ONLY).
9. WEATHERPROOF UNUSED TMA AND RADIO UNIT PORTS.
10. ALL ANTENNA AZIMUTHS TO BE FROM TRUE NORTH.



KGI WIRELESS, INC. TEXAS FIRM NO. F–15692
FIRM REGISTRATION RENEWAL 12/31/2021
PE LICENSE RENEWAL 06/30/2022



KGI WIRELESS, INC.
ENGINEERING

805 LAS CIMAS PKWY
BUILDING THREE, SUITE 370
AUSTIN, TX 78746
512.345.9595

SITE NAME
SAMUEL_PARK

LOCATION CODE
104821

SITE ADDRESS:
1101 E MAIN ST
MESQUITE, TX 75149

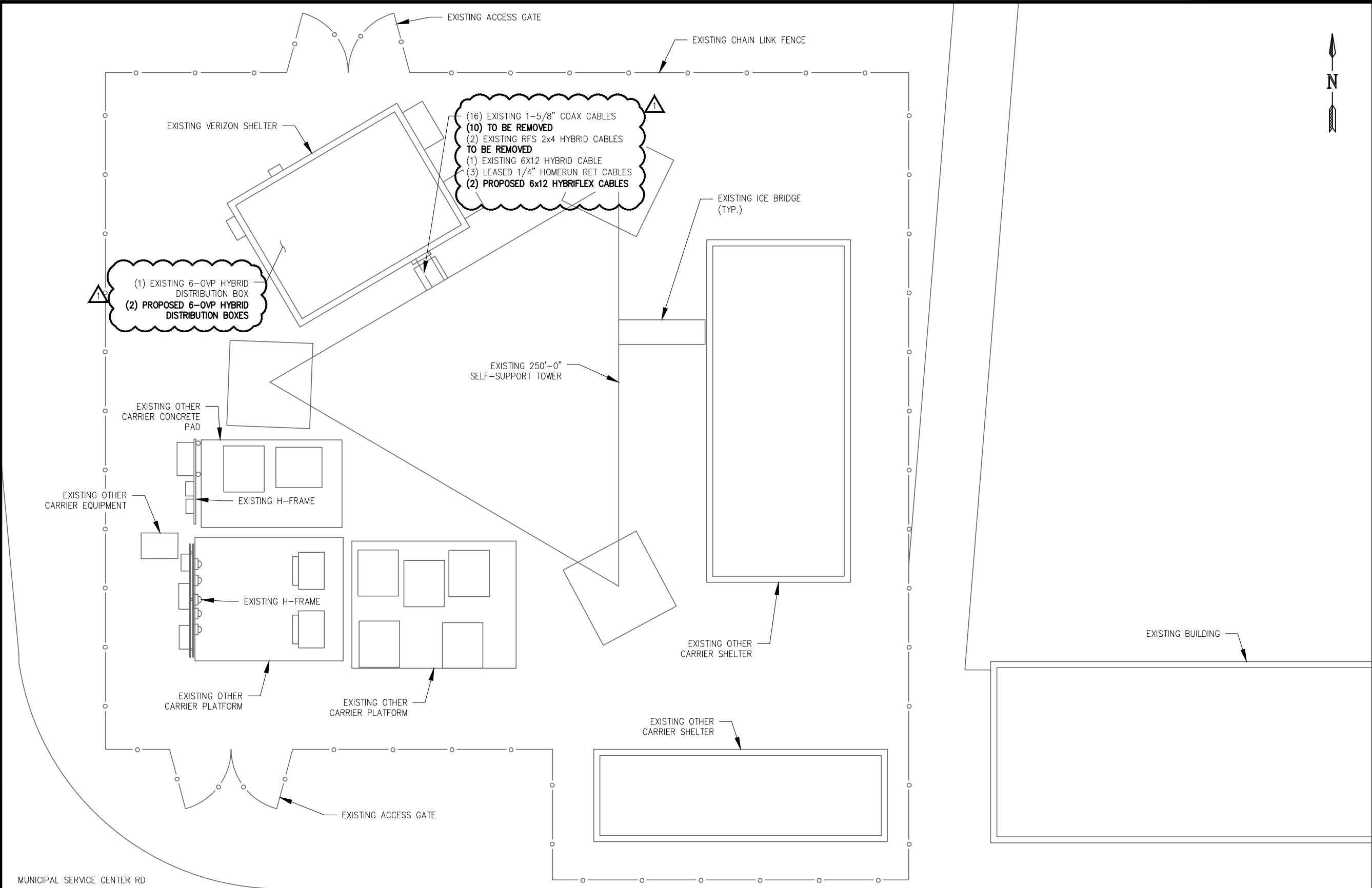
THESE DRAWINGS ARE THE PROPERTY OF VERIZON WIRELESS. THEY ARE INTENDED FOR THE EXCLUSIVE USE OF THIS PROJECT ONLY. ANY RE–USE OF THESE PLANS (DRAWINGS) WITHOUT THE EXPRESS WRITTEN CONSENT OF VERIZON WIRELESS IS PROHIBITED.


ISSUED FOR:	DATE
PERMITTING REV 0	04/01/2021
PERMITTING REV 1	08/31/2021

REVISION			
NO	DESCRIPTION	BY	DATE

SHEET TITLE:
GENERAL NOTES

SHEET NUMBER:
GN1





ALEXANDER HERSHEY
128023
LICENSED
PROFESSIONAL ENGINEER
08/31/2021

KGI WIRELESS, INC. TEXAS FIRM NO. F-15692
FIRM REGISTRATION RENEWAL 12/31/2021
PE LICENSE RENEWAL 06/30/2022



KGI WIRELESS, INC.
ENGINEERING

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BUILDING THREE, SUITE 370
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SITE NAME
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ISSUED FOR:		DATE
PERMITTING REV 0		04/01/2021
PERMITTING REV 1		08/31/2021

REVISION			
NO	DESCRIPTION	BY	DATE
1	UPDATE OVP'S AND CABLES	RA	08/31/2021

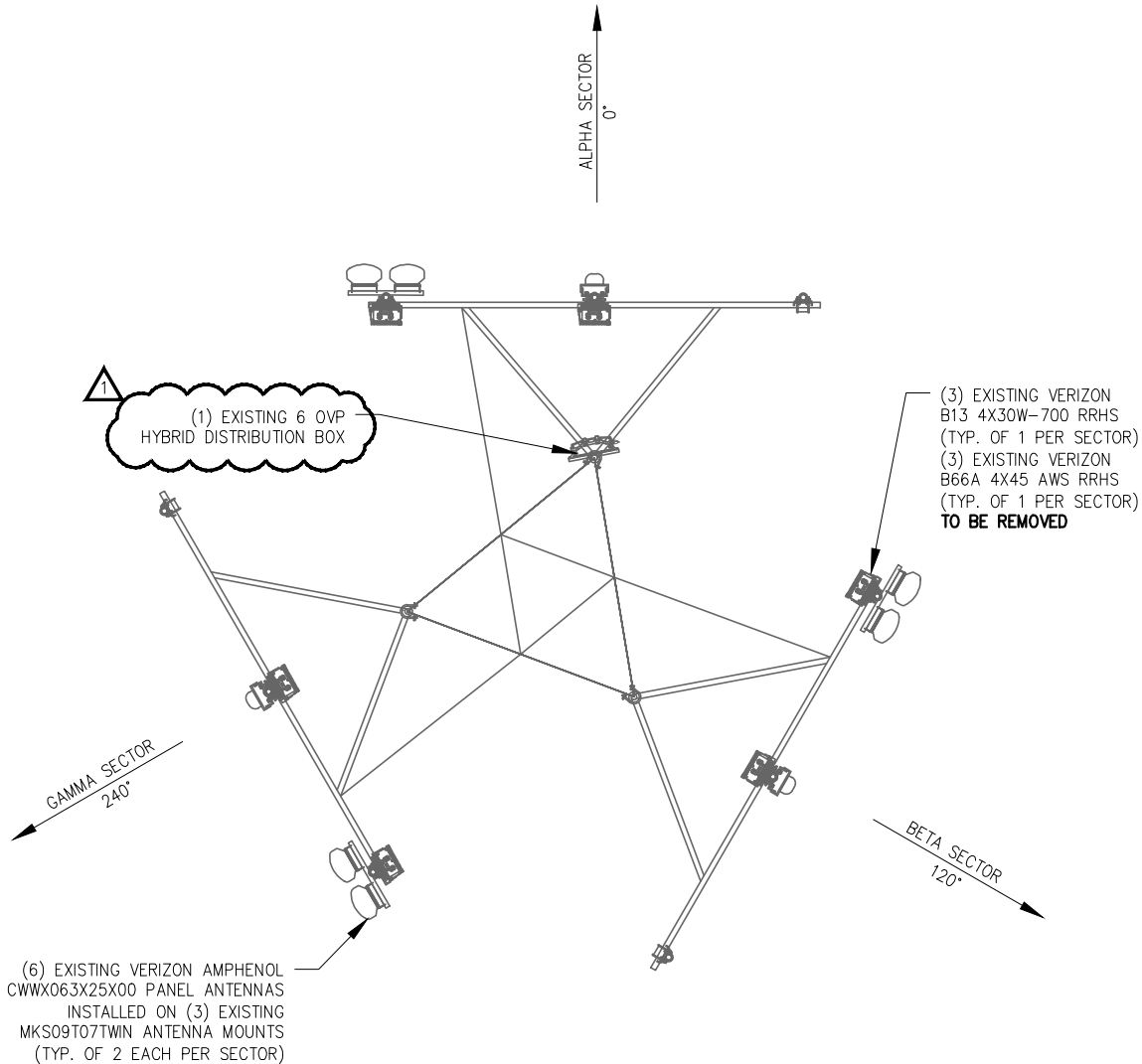
SHEET TITLE:
SITE PLAN

SHEET NUMBER:
C1

THIS SITE PLAN WAS DRAWN WITHOUT THE BENEFIT OF A CIVIL SURVEY; THEREFORE, THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, QUANTITIES AND DIMENSIONS BEFORE STARTING ANY WORK. NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES OR INCONSISTENCIES BEFORE PROCEEDING WITH THE WORK.



- NOTE:
1. CONTRACTOR SHALL VERIFY THE MOUNT MODEL AND EXISTING CONFIGURATIONS, CONNECTIONS AND STRUCTURE WITH THIS DRAWING AND STOP ANY WORK AND NOTIFY THE STRUCTURAL ENGINEER IN CASE OF ANY DISCREPANCIES.
 2. ALL EXISTING PIPE MOUNTS, BRACKETS AND ALL CONNECTIONS BE INSPECTED FOR ANY STRUCTURAL DEFICIENCIES, (I.E. ANY LOOSE, BENT AND DAMAGED MEMBERS) AND ANY DAMAGED MEMBERS SHOULD BE REPLACED WITH EQUAL MEMBER AND/OR PART OR BETTER AND ANY LOOSE BOLTED CONNECTIONS SHOULD BE TIGHTENED AS REQUIRED.



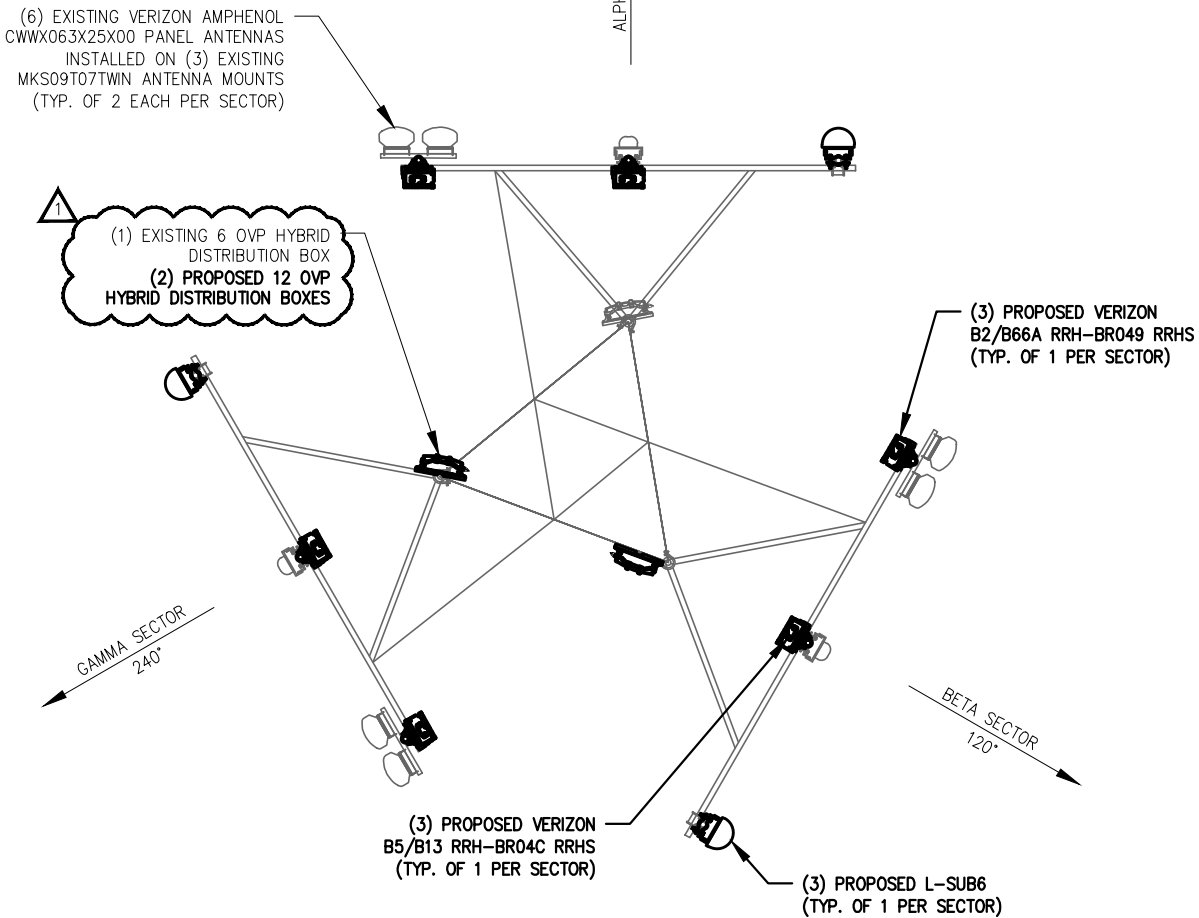
1

EXISTING ANTENNA PLAN

SCALE: N.T.S.

- NOTE:
1. CONTRACTOR SHALL VERIFY THE MOUNT MODEL AND EXISTING CONFIGURATIONS, CONNECTIONS AND STRUCTURE WITH THE ATTACHED SPECIFICATIONS AND STOP ANY WORK AND NOTIFY THE STRUCTURAL ENGINEER IN CASE OF ANY DISCREPANCIES.

MODIFICATION NOTE:
MOUNT REQUIRES MODIFICATION BEFORE ANY NEW EQUIPMENT IS INSTALLED. REFERENCE T.E.S. MOUNT MODIFICATION DRAWINGS DATED 03/23/2021.



2

PROPOSED ANTENNA PLAN

SCALE: N.T.S.



08/31/2021

KGI WIRELESS, INC. TEXAS FIRM NO. F-15692
FIRM REGISTRATION RENEWAL 12/31/2021
PE LICENSE RENEWAL 06/30/2022

verizon

KGI

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REVISION			
NO	DESCRIPTION	BY	DATE
1	UPDATE OVP'S AND CABLES	RA	08/31/2021

SHEET TITLE:
ANTENNA PLANS


SHEET NUMBER:
C3

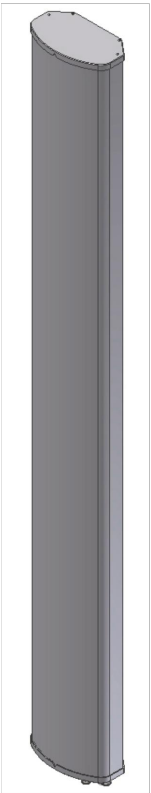
696-960 MHz



CX063X25x00

X-Pol | Single Band VET Panel | 65° | 16.8 dBi

Ordering Options	Model Number				
Manual Electrical Tilt	CX063X25M00				
Remote Electrical Tilt AISG v1.1	CX063X25R00				
Remote Electrical Tilt AISG v2.0 / 3GPP	CX063X25G00				
Electrical Characteristics	696-960 MHz				
Frequency bands (MHz)	696-806	806-960			
Polarization	±45°				
Horizontal beamwidth	70°	65°			
Vertical beamwidth	7.4°	6.9°			
Gain	16.3 dBi	16.8 dBi			
Electrical downtilt	0-10°				
Impedance	50Ω				
VSWR	< 1.5:1				
Upper sidelobe suppression	< -18 dB typical				
Front-to-back ratio	> 25 dB				
In-band isolation	> 25 dB				
Input power	2 x 500 W				
IM3 (2x20W carriers)	< -153 dBc				
Lightning protection	Direct Ground				
Operating temperature	-40° to +60° C (-40° to +140° F)				
Connector(s)	2 Ports / 7/16 DIN / Female / Bottom				
Mechanical Characteristics					
Dimensions Length x Width x Depth	2508 x 305 x 180 mm	98.7 x 12.0 x 7.1 in			
Weight without mounting brackets: MET	15.9 kg	35.0 lbs			
Weight without mounting brackets: RET	16.2 kg	35.7 lbs			
Survival wind speed	241 km/hr	150 mph			
Wind loads (160 km/hr or 100 mph)	Front: 930 N; Side: 550 N	Front: 209; Side: 124 lbf			
Remote Electrical Downtilt Control					
Remote Electrical Tilt (RET) Control	The remote control of the electrical tilt is managed by a module (MDCU) totally inserted at the bottom of the antenna. One single module controls individually the tilt of each band (no need of daisy chain cables between the bands). This module does not add any additional length at the bottom of the antenna. For RET control, the transparent cap must be in place and locked. The tilt angle indicator always remains visible and the antenna still has manual tilt control (manual override).				
RET Module Part Number (one per antenna)	MDCU-A0000 for AISG v1.1 protocol (one unit included in CX063X25R00) MDCU-G0000 for 3GPPP/AISG v2.0 protocol (one unit included in CX063X25G00)				
Important Installation Instructions	 In order to operate RET control, the transparent cap covering the tilt adjustment indicator must be engaged and locked. Do not cut the cap from the antenna.				
Mounting Options	Part Number	Fits Pipe Diameter		Weight	
3-Point Mounting Bracket Kit	MKS09P02	50-115 mm	2.0-4.5 in	4.1 kg	9 lbs
3-Point Mounting & Downtilt Bracket Kit	MKS09T02	50-115 mm	2.0-4.5 in	6.4 kg	14 lbs
Tri-Sector UNICELL Options					
For use inside UNICELL modules	UNX-20-xx				



Quoted performance parameters are provided to offer typical or range values only and may vary as a result of normal manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to product may be made without notice.



1710-2170 MHz

W85-19-x28

Single Band | Panel Antenna | X-Pol | 85° | 18.3 dBi | Variable Tilt

- Single band, X-Pol, variable tilt, panel antenna
- MET and RET versions, AISG v1.1 or 3GPP/AISG v2.0
- External RET unit

Ordering Options	Model Number		
When ordering, replace “x” in the model number with one of the options listed below.			
Manual Electrical Tilt	W85-19-M28		
Remote Electrical Tilt AISG v1.1	W85-19-R28		
Remote Electrical Tilt 3GPP/AISG v2.0	W85-19-R28G		
Mounting bracket kits and other accessories are ordered separately.			
Electrical Characteristics	1710-2170 MHz		
Frequency Bands	1710-1880 MHz	1850-1990 MHz	1900-2170 MHz
Polarization	±45°		
Horizontal Beamwidth	85°	85°	85°
Vertical Beamwidth	5.3°	5.1°	4.7°
Gain	17.5 dBi	17.8 dBi	18.3 dBi
Electrical Downtilt	2-8° Variable Electrical Tilt		
Impedance	50Ω		
VSWR	< 1.4:1		
Upper Sidelobe Suppression	< -18 dB		
Front-to-Back Ratio	> 25 dB		
Inter-Port Isolation	> 28 dB		
IM3 (2x20W Carriers)	< -153 dBc		
Input Power	2 x 200W		
Total Number of Connectors / Type / Location	2 Ports / 7/16-DIN Female / Bottom		
Diplexed	No		
Operating Temperature	-40° to +60° C (-40° to +140° F)		
Mechanical Characteristics			
MET Antenna	Dimensions (L x W x D)	1935 x 170 x 100 mm	76.2 x 6.7 x 3.9 in
	Weight without Mounting Brackets	11.0 kg	24.0 lbs
RET Antenna	Dimensions (L x W x D)	2105 x 170 x 100 mm	82.9 x 6.7 x 3.9 in
	Weight without Mounting Brackets	11.7 kg	25.5 lbs
Survival Wind Speed		241 km/hr	150 mph
Wind Load at 161 km/hr (100 mph)		Front: 402 N Side: 234 N	Front: 90 lbf Side: 53 lbf



Quoted performance parameters are provided to offer typical or range values only and may vary as a result of normal manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to product may be made without notice.

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AND
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KGI WIRELESS, INC.
ENGINEERING

805 LAS CIMAS PKWY
BUILDING THREE, SUITE 370
AUSTIN, TX 78746
512.345.9595

SITE NAME
SAMUEL_PARK

LOCATION CODE
104821

SITE ADDRESS:
1101 E MAIN ST
MESQUITE, TX 75149

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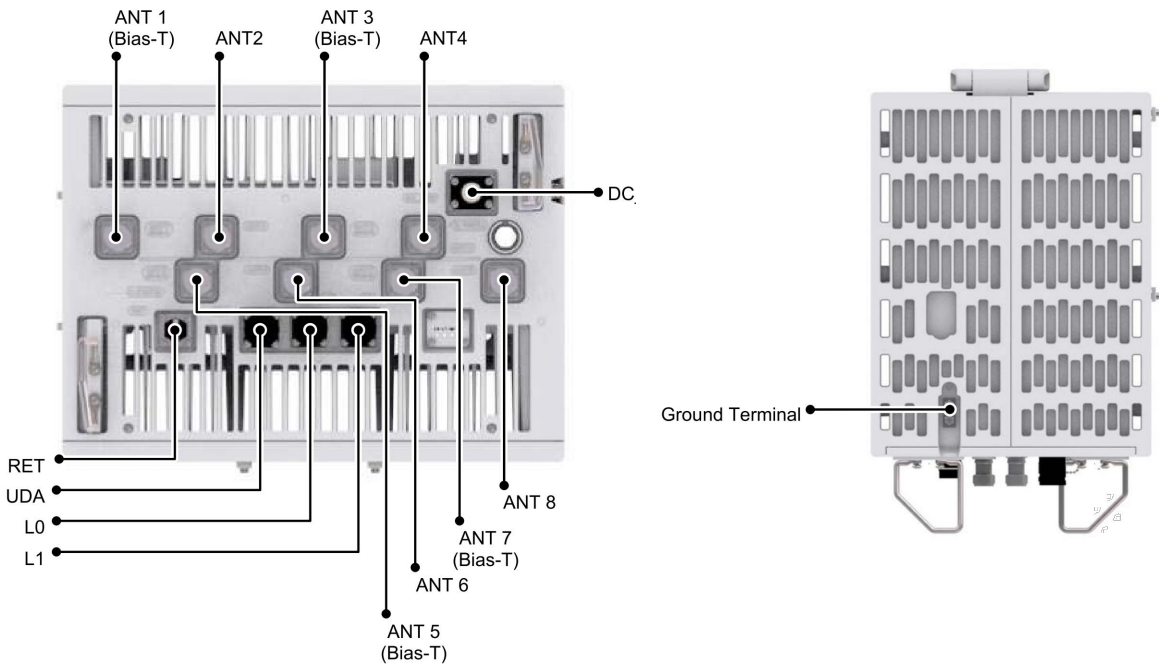
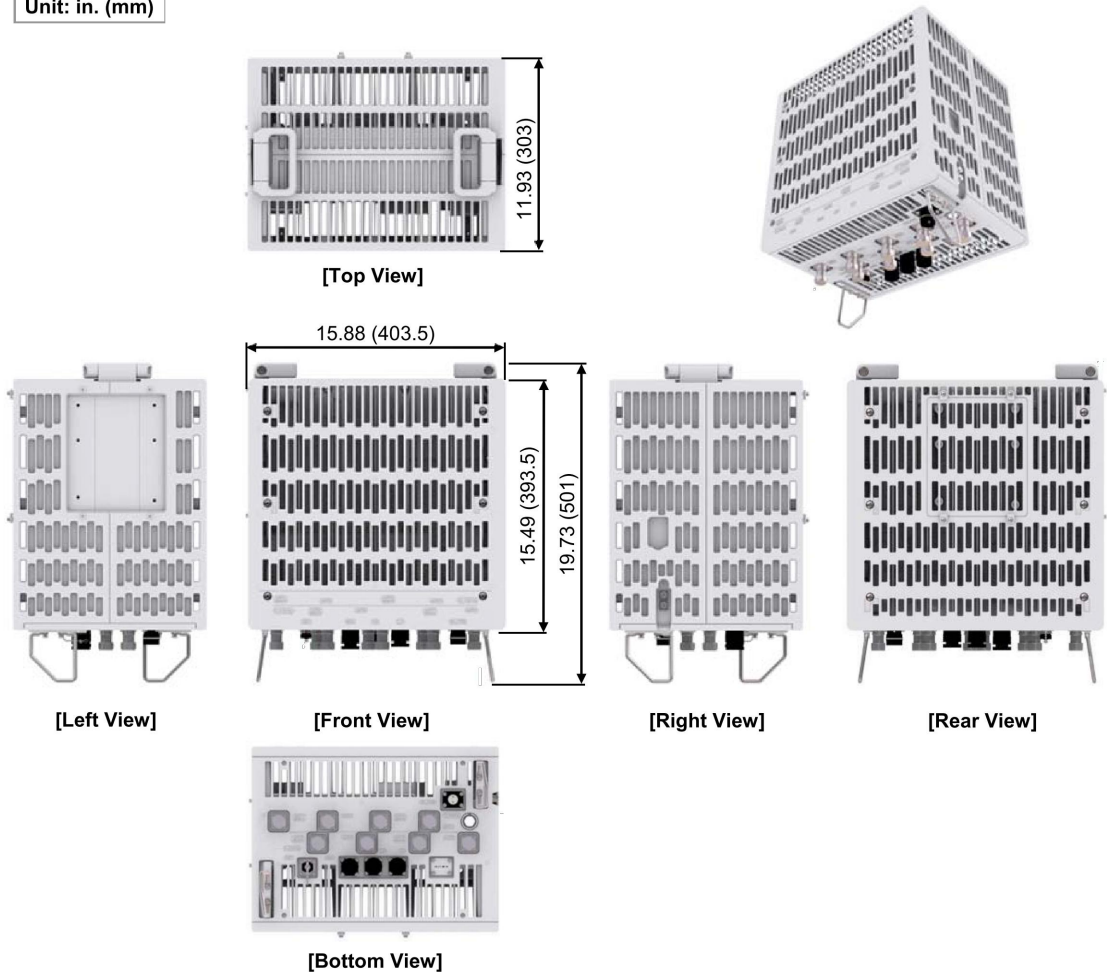
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PERMITTING REV 108/31/2021

REVISION			
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SHEET TITLE:
ANTENNA
SPECIFICATIONS

SHEET NUMBER:
RF1

Unit: in. (mm)



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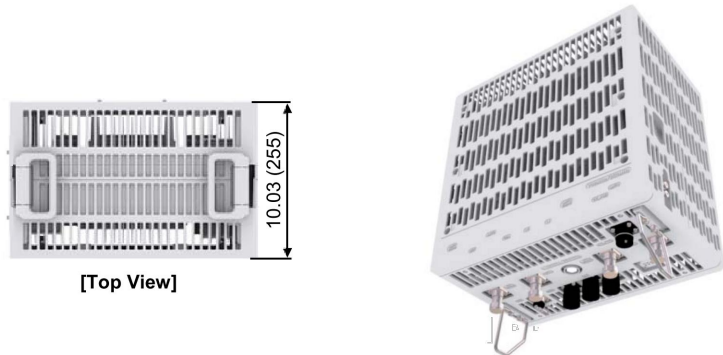
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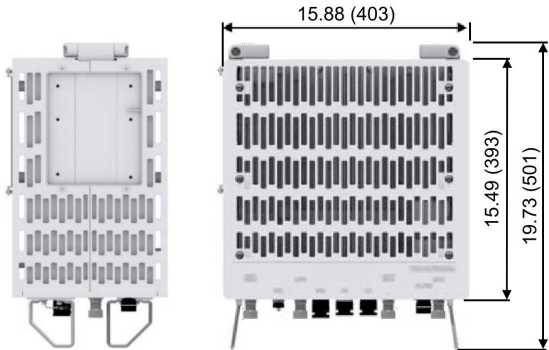
SHEET TITLE:
**PROPOSED
EQUIPMENT SPECS**

SHEET NUMBER:
RF2

Unit: in. (mm)

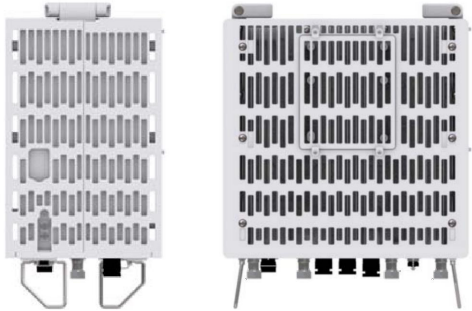


[Top View]



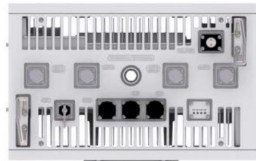
[Left View]

[Front View]

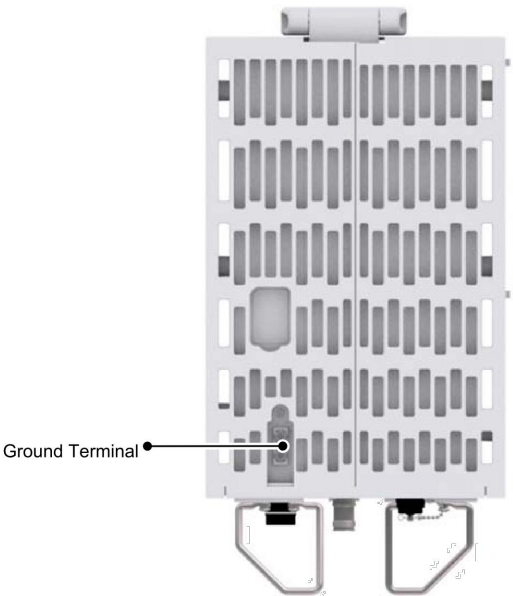
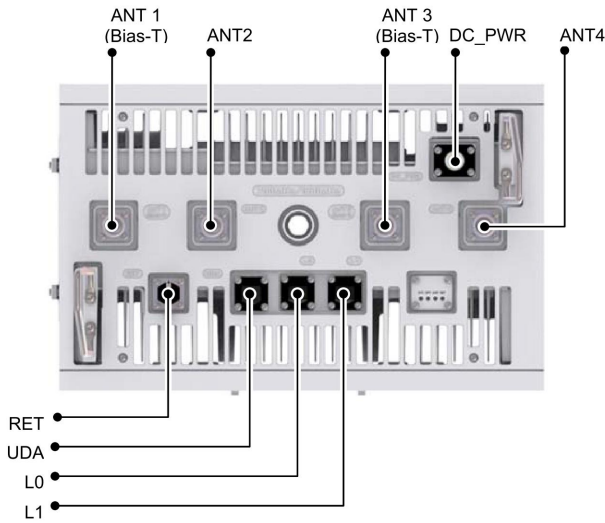


[Right View]

[Rear View]



[Bottom View]



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512.345.9595

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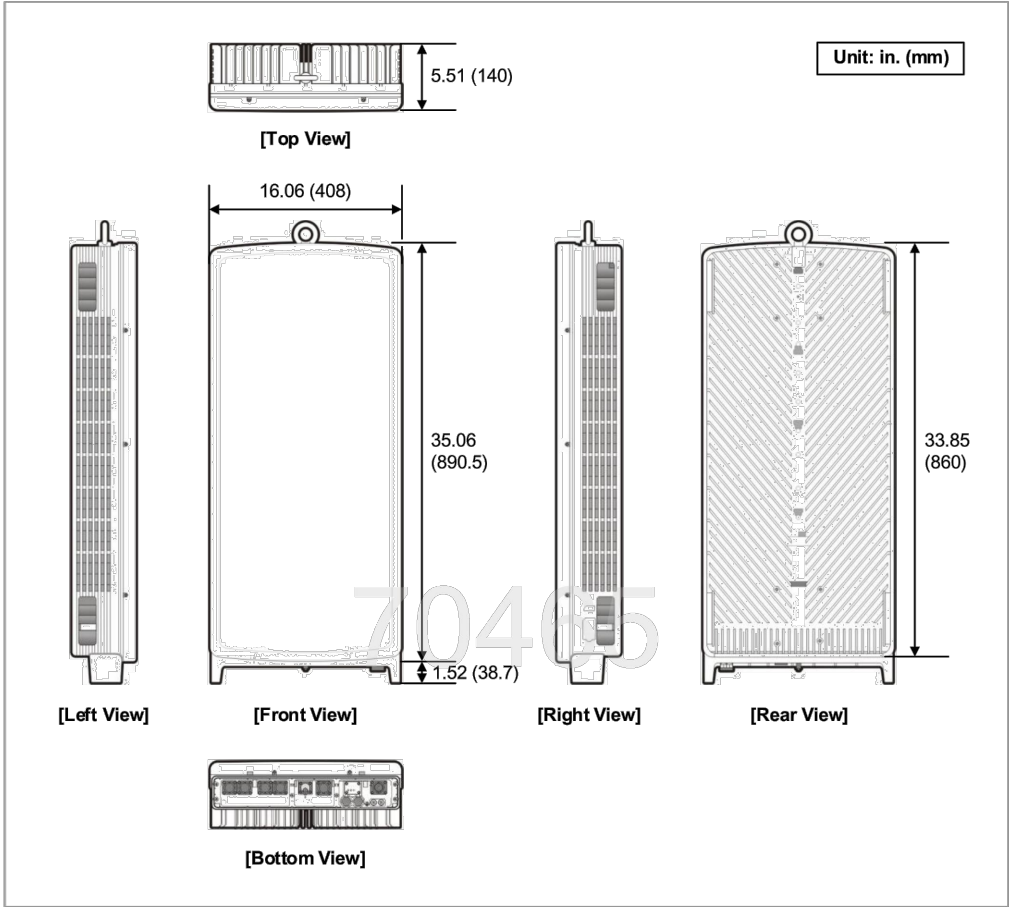
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SHEET NUMBER:
RF3

The following figures depict the physical views of the MT6407-77A.

Figure 1. Appearance



Specifications

The following table displays the main specifications of the MT6407-77A.

Table 2. Specifications

Item	Description
Air Technology	NR
Frequency	3700~3980 MHz
IBW	280 MHz
OBW	200 MHz
Carrier Bandwidth	20/40/60/80/100 MHz
Number of Carriers	2 carriers (Contiguous, Non-Contiguous) <ul style="list-style-type: none">• NR 1C: 20/40/60/80/100M• NR 1CC+1CC 20/40/60/80/100M + 20/40/60/80/100M
Layer	<ul style="list-style-type: none">• DL: 16 Layers• UL: 16 RX (8 Layers)
RF Chain	64T64R
Antenna Configuration	4 V16H with 192 AE
EIRP	78.5 dBm (53 dBm + 25.5 dBi)
Conductive Power	200 W
Spectrum Analyzer	TX/RX support
Modulation	DL 256QAM support, (DL 1024QAM with 1~2 dB power back-off)
Function Split	DL/UL Option 7-2x
Fronthaul Interface	CPRI, eCPRI
Optic Interface	4 ports (25 Gbps × 4), SFP28, single mode, Bi-di (Option: Duplex), 15 km
External Alarm	4 RX
Input Power	-48 VDC (-38 to -57 VDC)
Power Consumption[Note]	<ul style="list-style-type: none">• 1,395 W @ 100 % RF load, room temperature• 1,428 W @ 100 % RF load, all temperature• 1,003 W @ 40% RF load, room temperature
Size (WHD)	408 × 890.5 × 140 mm (16.06 × 35.06 × 5.51 inch)
Volume	50.9 L
Weight	37 kg or less
Operating Temperature	-40-55 °C (w/o solar load)
Operating Humidity	5~100 % RH RH, non-condensing, not to exceed 30 g/m3 absolute humidity.
Waterproof/Dustproof	IEC 60529 IP65
Earthquake	Telcordia GR-63-Core, Zone4
Cooling	Natural convection
Mounting Options	Pole, wall

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ENGINEERING

805 LAS CIMAS PKWY
BUILDING THREE, SUITE 370
AUSTIN, TX 78746
512.345.9595

SITE NAME
SAMUEL_PARK

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104821

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1101 E MAIN ST
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PROPOSED
EQUIPMENT SPECS

SHEET NUMBER:
RF4

MOUNT MODIFICATION DRAWINGS

PROPOSED CARRIER: VERIZON


CARRIER SITE NUMBER: 104821-VZW
CARRIER SITE NAME: SAMUEL_PARK

COORDINATES (LATITUDE: 32.768730°, LONGITUDE: -96.586380°)


FUZE ID # 16229054

Contractor PMI Requirements			
PMI Accessed At		https://pmi.vzwsmart.com	
Smart Tool Vendor Project Number	10096019	Post MOD Analysis Report Project Number	10096019
VzW Location Code (PSLC)	104821	Report Dated	8/23/2021
*** PMI and Requirements embedded in Mount Analysis Report			
VzW APPROVED SMART KIT VENDORS			
Refer to Mount Modification Drawings Page for VzW SMART KIT Approved Vendors			

SHEET	SHEET TITLE	REV
ST-1	TITLE SHEET	0
SBOM	BILL OF MATERIALS	0
SGN-1	GENERAL NOTES	0
SCF-1	CLIMBING FACILITY DETAILS	0
SS-1	ANTENNA MOUNT MODIFICATION DETAILS	0
SS-2	STANDARD DETAILS	0
SS-3	STANDARD DETAILS	0
SS-4	STANDARD DETAILS	0
SS-5	STANDARD DETAILS	0
SS-6	MOUNT PHOTOS	0
-	SPECIFICATION SHEETS	



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1320 GREENWAY DRIVE, SUITE 600
IRVING, TX 75038
PH: (972) 483-0607



TES JOB NO:
10096019


CUSTOMER SITE NO:
104821-VZW

CUSTOMER SITE NAME:
SAMUEL_PARK

1101 E MAIN ST
MESQUITE, TX 75149

TOWER ENGINEERING SOLUTIONS, LLC
TEXAS REGISTERED ENGINEERING FIRM
F-15688

Exp.09/30/2021



MUSTAPHA ASSI
101771
LICENSED PROFESSIONAL ENGINEER
08/26/2021

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ST-1	0

GENERAL NOTES

- ALL WORK SHALL COMPLY WITH THE ANSI/TIA-222-H, ANSI/ASSP A10.48, AND ANY OTHER GOVERNING BUILDING CODES AND OSHA SAFETY REGULATIONS.
- ALL WORK INDICATED ON THE DRAWINGS SHALL BE PERFORMED BY QUALIFIED CONTRACTORS EXPERIENCED IN TELECOMMUNICATIONS TOWER, POLE AND FOUNDATION CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND FABRICATION OF ALL MISCELLANEOUS PARTS (SUCH AS SHIMS), TEMPORARY SUPPORTS, AND GUYINGS, ETC., PER ANSI/ASSP A10.48, TO COMPLETE THE ASSEMBLY AS SHOWN IN THE DRAWINGS.
- CONTRACTOR SHALL PROCEED WITH THE INSTALLATION WORK CAREFULLY SO THE WORK WILL NOT DAMAGE ANY EXISTING CABLE, EQUIPMENT OR THE STRUCTURE.
- THE USE OF GAS TORCH OR WELDER, ARE NOT ALLOWED ON ANY TOWER STRUCTURE WITHOUT THE CONSENT OF THE TOWER OWNER.
- GENERALLY THE CONTRACTOR IS RESPONSIBLE TO CONDUCT AN ONSITE VISIT SURVEY OF THE JOB SITE AFTER AWARD, AND REPORT ANY ISSUES WITH THE SITE TO **TES** BEFORE PROCEEDING CONSTRUCTION.
- TEMPORARILY RELOCATE ANY EXISTING COAX ATTACHED TO THE LEGS AND/OR ANY OTHER MEMBERS WHERE OBSTRUCTION WITH THE PROPOSED MODIFICATION MAY OCCUR.
- IT IS THE RESPONSIBILITY OF THE GC TO VERIFY THAT THERE IS NO INTERFERENCES (WITH SAFETY CLIMB BRACKETS, TRANSMISSION LINES, ETC.) PRIOR TO MOBILIZATION AND INSTALLATION OF THESE MODIFICATIONS.
- PLEASE NOTIFY TES IMMEDIATELY IF ANY INSTALLATION ISSUES OCCUR RELATED TO THIS DRAWING @ 972-483-0607 OR EMAIL-TESORDERS@TESTOWER.US

FABRICATION

- ALL STEEL SHALL MEET OR EXCEED THE MINIMUM STRENGTH AS SPECIFIED IN THE DRAWINGS. IF YIELD STRENGTH WAS NOT NOTED IN THE DRAWINGS, CONTRACTORS SHALL CONTACT TES FOR DIRECTION.
- ALL FIELD CUT EDGES SHALL BE GROUND SMOOTH. ALL FIELD CUT AND DRILLED SURFACES SHALL BE REPAIRED WITH A MINIMUM OF TWO COATS OF ZINGA COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURER’S RECOMMENDATIONS.

WELDING

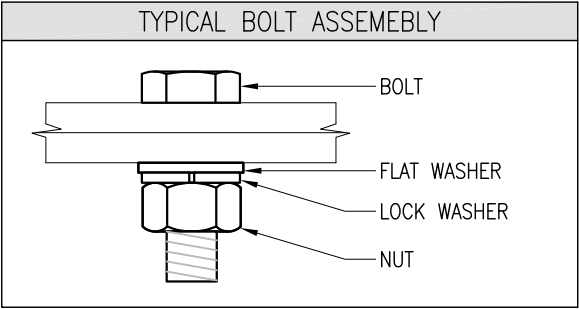
- ALL WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS AND IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS WELDING CODE D1.1. ALL ELECTRODES TO BE LOW HYDROGEN, MATCHING FILLER METAL, PER AWS D1.1, UNO. (E70XX UNLESS NOTED OTHERWISE).
- PRIOR TO FIELD WELDING GALVANIZED MATERIAL, CONTRACTOR SHALL GRIND OFF GALVANIZING APPROX. 0.5” BEYOND THE PROPOSED FIELD WELD SURFACES.
- ALL WELDS SHALL BE INSPECTED VISUALLY. A MINIMUM OF 25% OF WELDS SHALL BE INSPECTED WITH DYE PENETRANT OR MAGNETIC PARTICLE TO MEET THE ACCEPTANCE CRITERIA OF AWS D1.1. 100% OF WELDS SHALL BE INSPECTED IF DEFECTS ARE FOUND.
- WELD INSPECTIONS SHALL BE PERFORMED BY AN AWS CERTIFIED WELD INSPECTOR.
- AFTER INSPECTION, ALL FIELD WELDED SURFACES SHALL BE REPAIRED WITH A MINIMUM OF TWO COATS OF ZINGA COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURER’S RECOMMENDATIONS.

BOLTED ASSEMBLIES AND TIGHTENING OF CONNECTIONS

- ALL HIGH STRENGTH BOLTS SHALL CONFORM TO THE PROVISIONS OF THE SPECIFICATIONS FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS AS APPROVED BY THE RCSC.
- FLANGE BOLTS SHALL BE TIGHTENED BY THE AISC "TURN-OF-THE-NUT" METHOD. THE FOLLOWING TABLE SHOULD BE USED FOR THE "TURN-OF-THE-NUT" TIGHTENING.
- SPLICE BOLTS AND ALL OTHER BOLTS IN BEARING TYPE CONNECTIONS SHALL BE TIGHTENED TO A SNUG-TIGHT CONDITION.
- THE SNUG-TIGHT CONDITION IS DEFINED AS THE TIGHTNESS ATTAINED BY EITHER A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF AN IRONWORKER WITH AN ORDINARY SPUD WRENCH TO BRING THE CONNECTED PLIES INTO FIRM CONTACT.
- FOR THREADED ROD CONNECTIONS, TRIM EXCESS THREADED ROD TO NO MORE THAN 3” PAST THE NUT AND COAT WITH ZINGA COLD GALVANIZING COMPOUND.

VERIFICATION AND INSPECTION

- IF APPLICABLE, VERIFICATION INSPECTION TO BE PERFORMED SHALL BE IN ACCORDANCE TO IBC-2018 SECTION 1705.2 FOR STEEL CONSTRUCTION AND TABLE 1705.3 FOR CONCRETE CONSTRUCTION.



NOTES

- ALL DIMENSIONS REPRESENTED IN THIS SHEET ARE AISC MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF DISTANCES ARE LESS THAN THOSE PROVIDED.
- THE DIMENSIONS PROVIDED ARE MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS OF PROPOSED MEMBERS WITHIN THESE DRAWINGS MAY VARY FROM THE AISC MINIMUM REQUIREMENTS.
- SHORT SLOT HOLES SHALL ONLY BE USED WHEN DEPICTED IN THE DRAWINGS.
- MATCH EXISTING GAGES WHEN APPLICABLE, UNLESS MINIMUM EDGE DISTANCE ARE COMPROMISED.

TABLE 8.2 NUT ROTATION FROM SNUG-TIGHT
CONDITION FOR TURN-OF-NUT PRETENSIONING^{a,b}

BOLT LENGTH ^f	DISPOSITION OF OUTER FACE OF BOLTED PARTS		
	BOTH FACES NORMAL TO BOLT AXIS	ONE FACE NORMAL TO BOLT AXIS, OTHER SLOPED NOT MORE THAN 1:20 ^d	BOTH FACES SLOPED NOT MORE THAN 1:20 FROM NORMAL TO BOLT AXIS ^d
NOT MORE THAN 4d _b	1/3 TURN	1/2 TURN	2/3 TURN
MORE THAN 4d _b BUT NOT MORE THAN 8d _b	1/2 TURN	2/3 TURN	5/6 TURN
MORE THAN 8d _b BUT NOT MORE THAN 12d _b	2/3 TURN	5/6 TURN	1 TURN
^a NUT ROTATION IS RELATIVE TO BOLT REGARDLESS OF THE ELEMENT (NUT OR BOLT) BEING TURNED. FOR REQUIRED NUT ROTATIONS OF 1/2 TURN AND LESS, THE TOLERANCE IS PLUS OR MINUS 30 DEGREES; FOR REQUIRED NUT ROTATIONS OF 2/3 TURN AND MORE, THE TOLERANCE IS PLUS OR MINUS 45 DEGREES.			
^b APPLICABLE ONLY TO JOINTS IN WHICH ALL MATERIAL WITHIN THE GRIP IS STEEL.			
^c WHEN THE BOLT LENGTH EXCEEDS 12d _b , THE REQUIRED NUT ROTATION SHALL BE DETERMINED BY ACTUAL TESTING IN A SUITABLE TENSION CALIBRATOR THAT SIMULATES THE CONDITIONS OF SOLIDLY FITTING STEEL.			
^d BEVELED WASHER NOT USED.			

SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS, JUNE 30, 2004
RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS

NOMINAL HOLE DIMENSIONS		
BOLT DIAMETER	STANDARD HOLE	SHORT SLOT
1/2"	9/16"	9/16" X 11/16"
5/8"	11/16"	11/16 X 7/8"
3/4"	13/16"	13/16" X 1"
7/8"	15/16"	15/16" X 1 1/8"
1"	1 1/16"	1 1/16" X 1 5/16"
BOLT EDGE AND SPACING		
BOLT DIAMETER	MIN EDGE	SPACING
1/2"	7/8"	1 1/2"
5/8"	1 1/8"	1 7/8"
3/4"	1 1/4"	2 1/4"
7/8"	1 1/2"	2 5/8"
1"	1 3/4"	3"

The diagram shows a rectangular plate with two circular bolt holes. A dimension line indicates the minimum edge distance from the center of a hole to the nearest edge, labeled 'MIN. EDGE'. Another dimension line indicates the spacing between the centers of two holes.

WORKABLE GAGES	
ANGLE SIZE	GAGE
1 3/4"	1"
2"	1 1/8"
2 1/2"	1 3/8"
3"	1 3/4"
3 1/2"	2"
4"	2 1/2"

The diagram shows an L-shaped angle with a gage being used to measure its size. The gage is labeled 'GAGE'.

ALLOWABLE COPING	
<p>The diagram shows an angle with a coping. A dimension line indicates the maximum length of the coping, labeled '1.5 X L (MAX)'. A note points to the coping, stating 'LIMIT OF ALLOWABLE COPED PORTION OF ANGLE WITHOUT ENGINEERS PRIOR WRITTEN APPROVAL'.</p>	<p>The diagram shows an angle with a coping. A dimension line indicates the maximum length of the coping, labeled '1.5 X L (MAX)'. A note points to the coping, stating 'LIMIT OF ALLOWABLE COPED PORTION OF ANGLE WITHOUT ENGINEERS PRIOR WRITTEN APPROVAL'.</p>



Tower Engineering Solutions

1320 GREENWAY DRIVE, SUITE 600
IRVING, TX 75038
PH: (972) 483-0607



TES JOB NO:
10096019

CUSTOMER SITE NO:
104821-VZW
CUSTOMER SITE NAME:
SAMUEL_PARK
1101 E MAIN ST
MESQUITE, TX 75149

TOWER ENGINEERING SOLUTIONS, LLC
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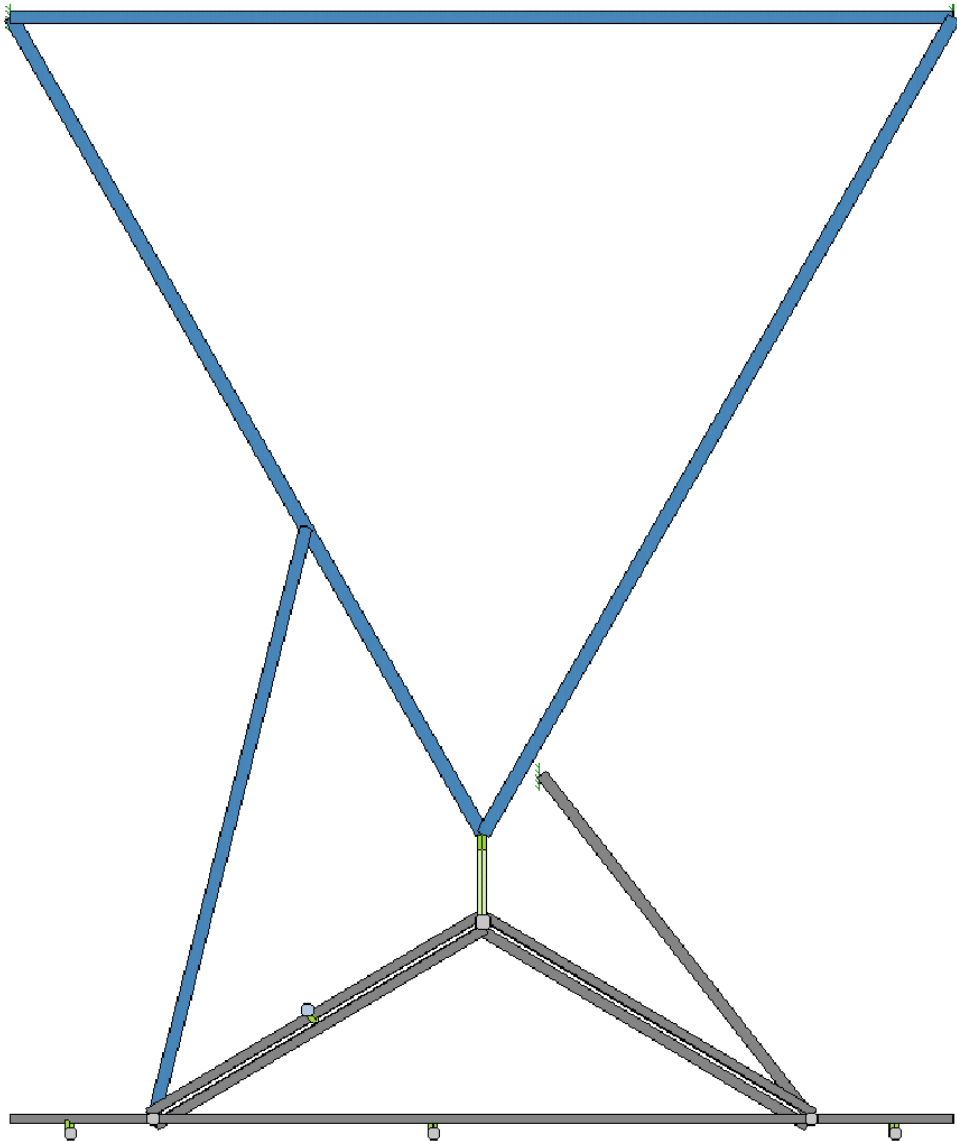
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PICTURE OF SAFETY CLIMB

NO SAFETY CABLE OBSERVED IN THE TOWER

NOTE:
1. INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB OR ANY SYSTEM INSTALLED ON THE STRUCTURE.



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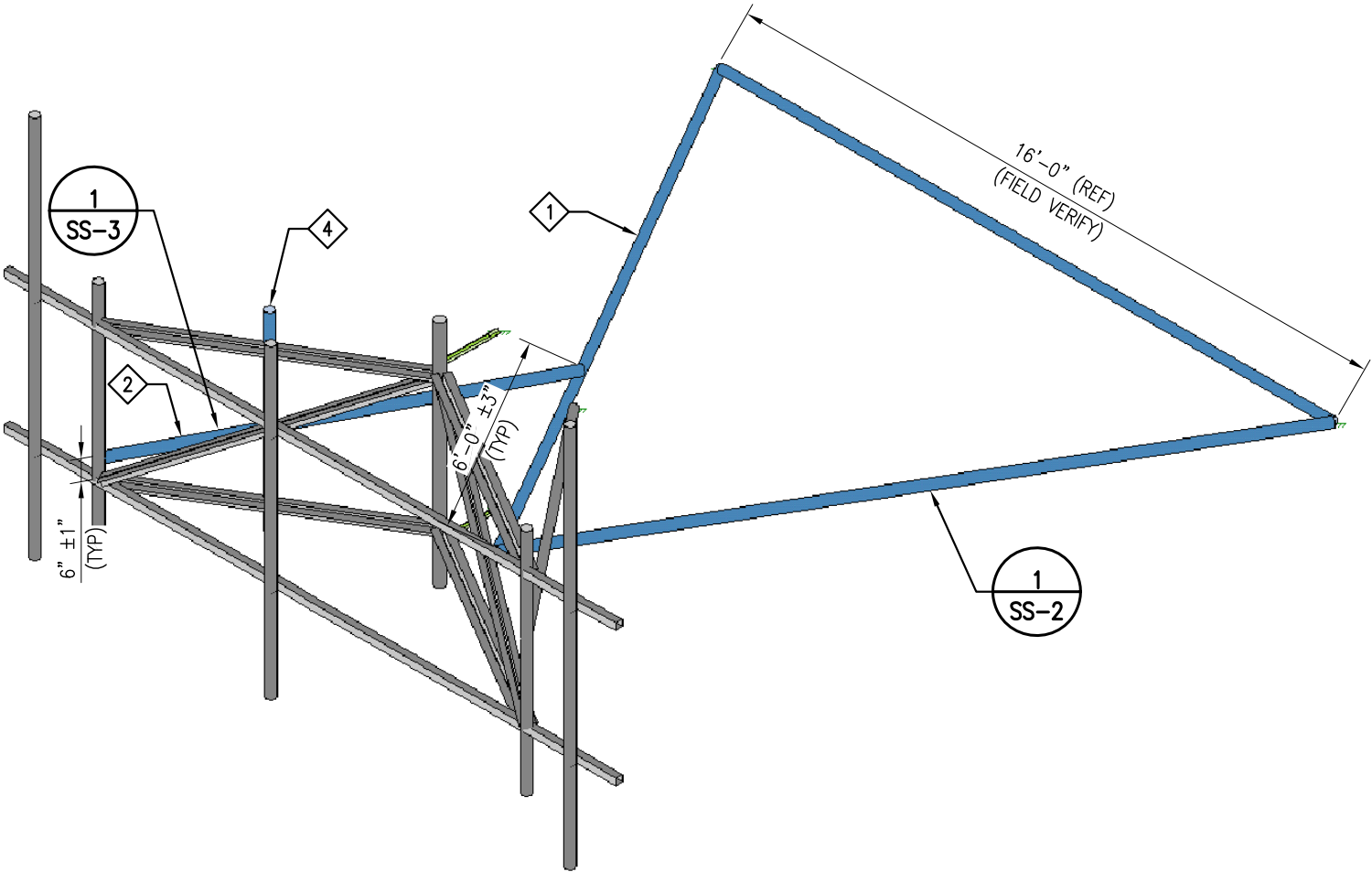
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CLIMBING FACILITY
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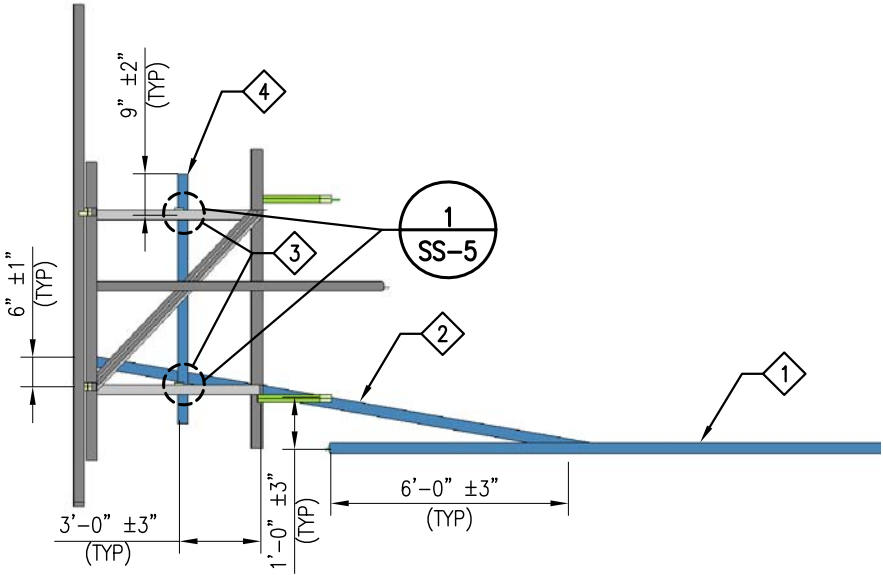
SHEET NUMBER: SCF-1	REV #: 0
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MOUNT MODIFICATION SCHEDULE		
SL. NO.	MOUNT MODIFICATION DESCRIPTION	REFERENCE SHEET NO.
1	INSTALL NEW PERFECT VISION MICROWAVE STRUT SUPPORT FACE MOUNT KIT (PV-MD-CS-18R)	SS-2
2	INSTALL NEW TIE BACK PIPE.	SS-3
3	INSTALL NEW VZWSMART ANGLE TO ANGLE CROSSOVER	VZWSMART-MSK7, SS-5
4	INSTALL NEW 2" PST RAYCAP MOUNT PIPE (P40-238X072), (1) FOR (2) SECTOR ONLY	VZWSMART-PIPE, SS-1, SS-5
FIELD CUTTING AND FIELD DRILLING MAY BE NECESSARY TO ACHIEVE THE REQUIRED DIMENSIONS		
FOR THREADED ROD CONNECTIONS, TRIM EXCESS THREADED ROD TO NO MORE THAN 3" PAST THE NUT AND COAT WITH ZINGA COLD GALVANIZING COMPOUND.		
IF EXISTING TOWER IS PAINTED, CONTRACTOR TO VERIFY WITH TOWER OWNER IF NEW MODIFICATION MEMBERS ARE TO BE PAINTED TO MATCH EXISTING TOWER COLOR.		
THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEAN-UP, REMOVAL AND DISPOSAL OF EXCESS MATERIALS USED AND REMOVED FROM THE STRUCTURE AT THE COMPLETION OF THE PROJECT.		
MEMBERS IN BLUE COLOR ARE NEW REINFORCEMENTS AND MEMBERS IN AQUA COLOR (IF SHOWN) ARE RELOCATED MEMBERS		



1
SS-1

ISOMETRIC VIEW
EXISTING ANTENNA MOUNT @ 124' ELEV.
(MODIFICATION IS TYPICAL FOR ALL (3) SECTORS)



2
SS-1

SIDE VIEW



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TES JOB NO:
10096019

CUSTOMER SITE NO:
104821-VZW
CUSTOMER SITE NAME:
SAMUEL_PARK
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MESQUITE, TX 75149

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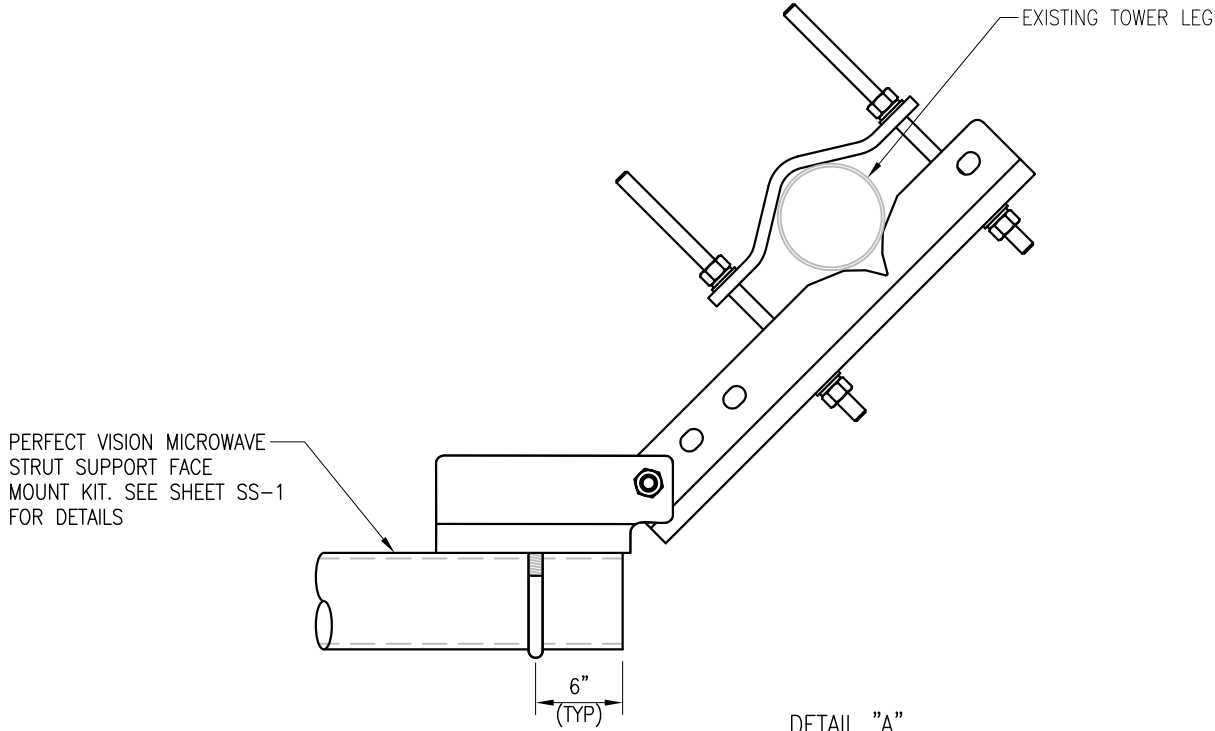
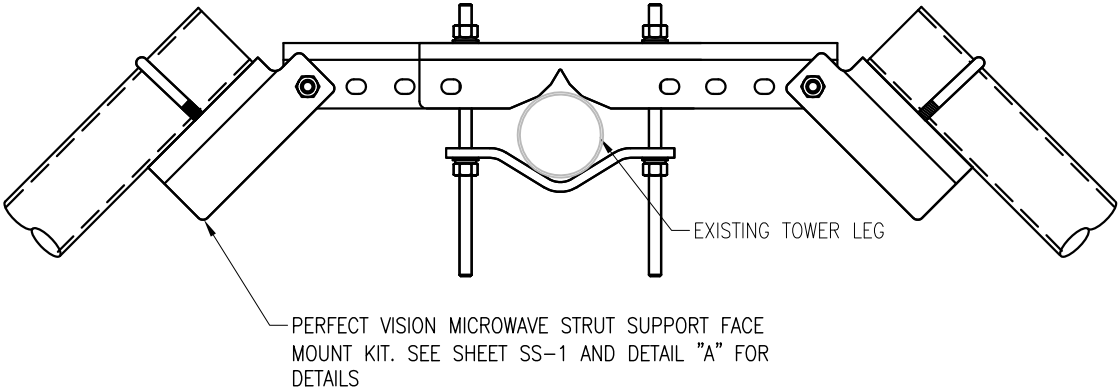
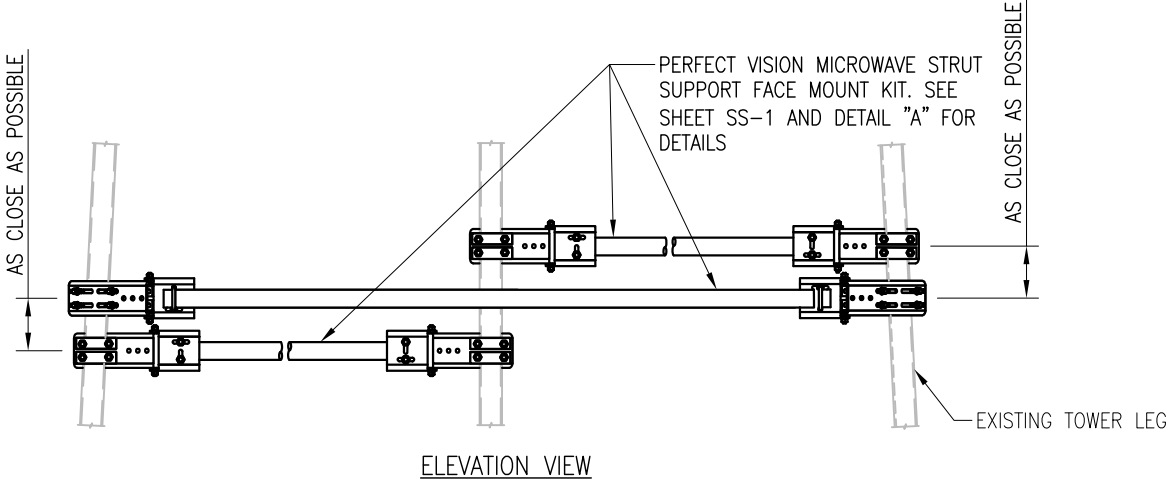
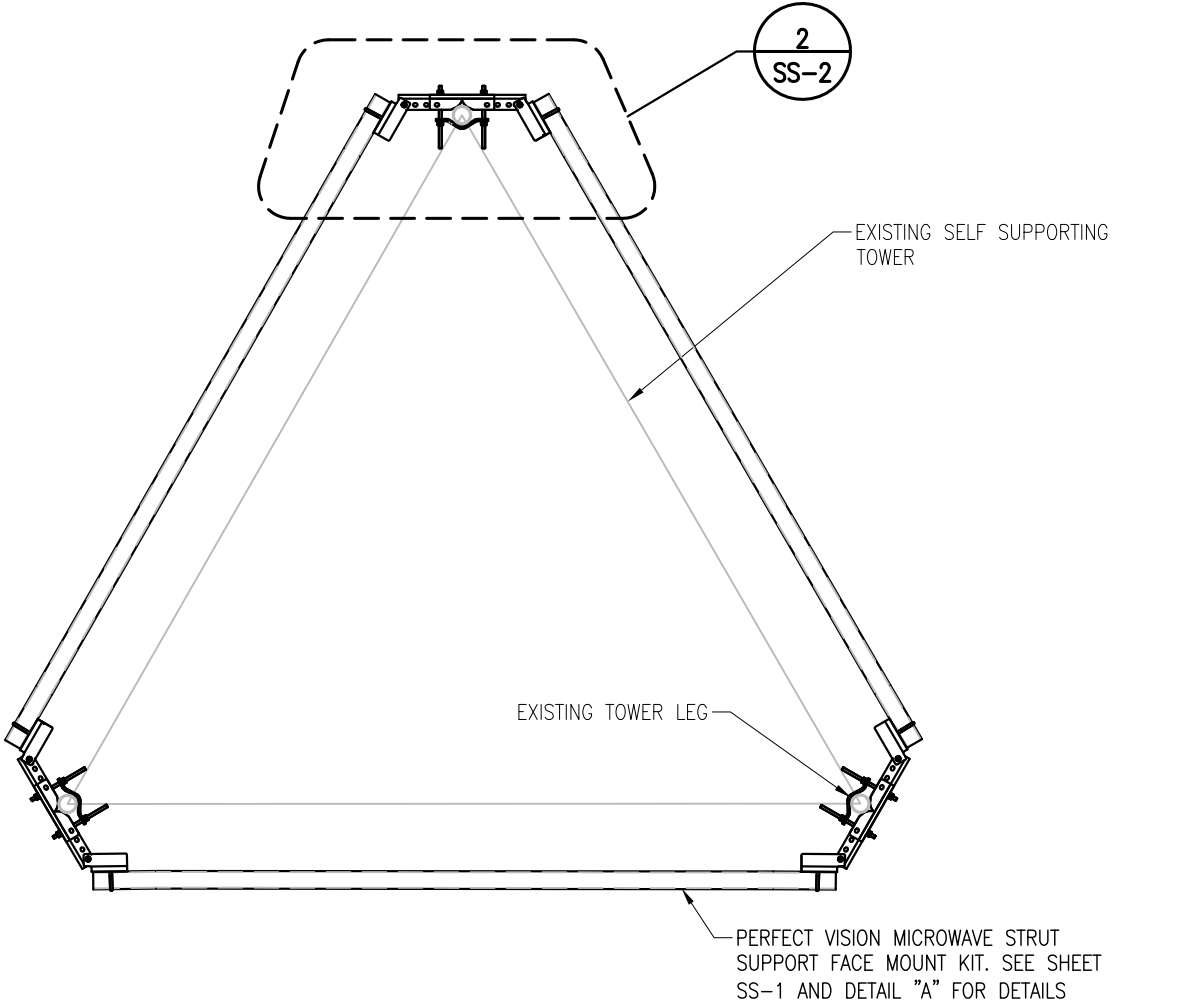
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ANTENNA MOUNT
MODIFICATION DETAILS

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- NOTES:
1. HOT-DIPPED GALVANIZED PER ASTM A123.
 2. ALL HOLES ARE 11/16" DIA. U.N.O



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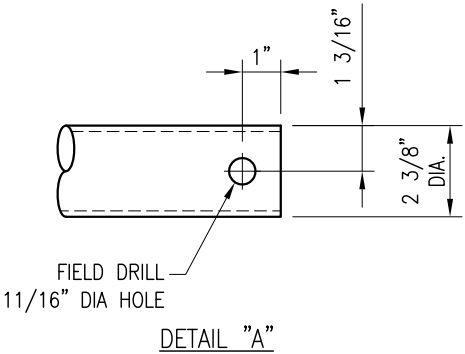
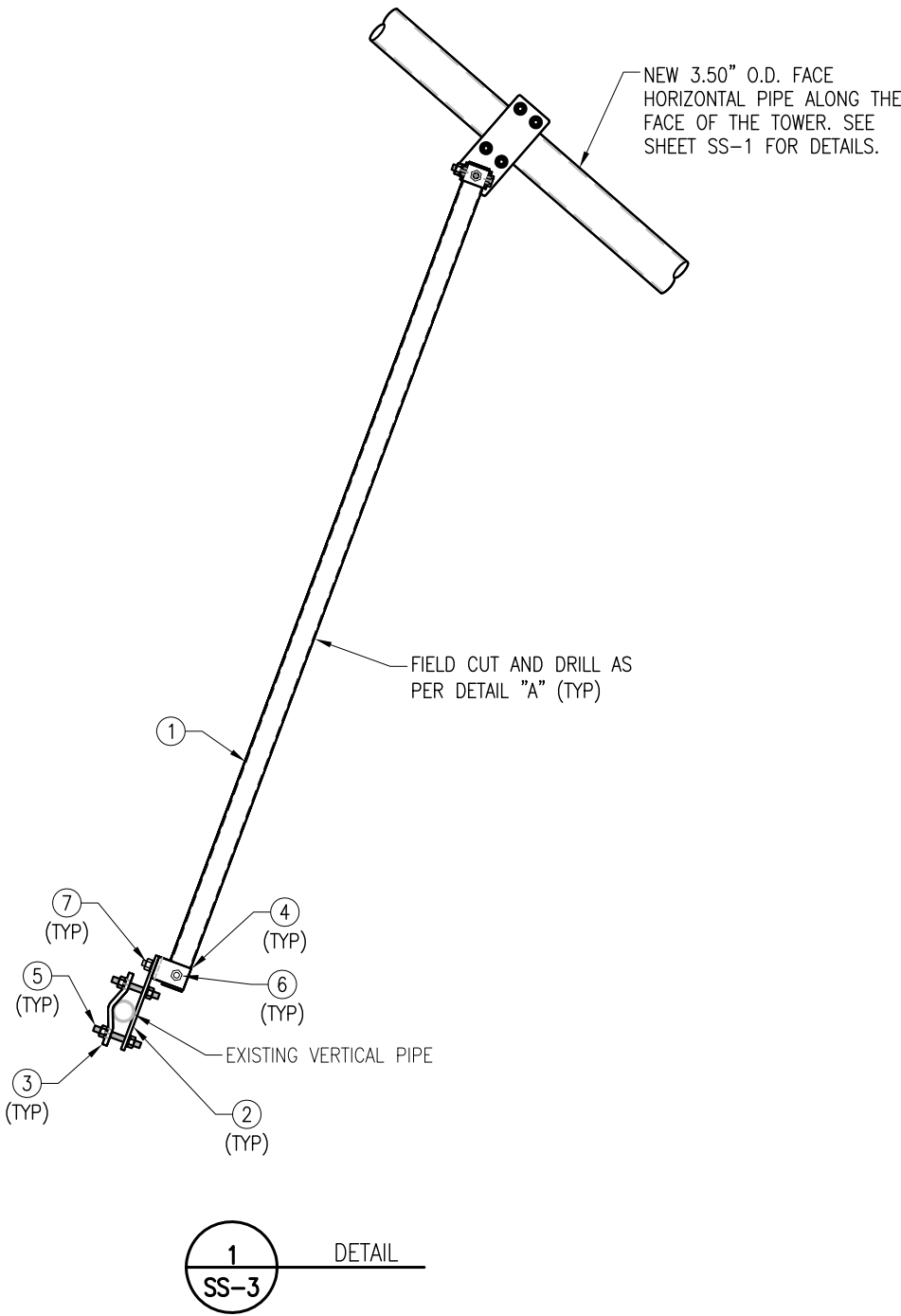
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SS-2

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- NOTES:
- 1. HOT-DIPPED GALVANIZED PER ASTM A123.
 - 2. ALL HOLES ARE 11/16" DIA. U.N.O

ITEM NO.	QTY.	PART NO.	DESCRIPTIONS
1	3	P40-238X174	PIPE 2 SCH40 (2.375" OD X 0.154" THK) X 14'-6" LONG
2	6	PL375-4511	PL 3/8" X 4 1/2" X 11" A36
3	6	V-CLAMP	PL 1/2" X 4 1/4" X 8 5/8" A36
4	6	BP2-875	PL 1/4" X 2" X 8 3/4" A36 BENT PLATE
5	24	---	BOLT 5/8" X 6" FUL THREAD SAE GR 5
6	6	---	BOLT 5/8" X 4 1/4" A325
7	6	---	BOLT 5/8" X 2" A325



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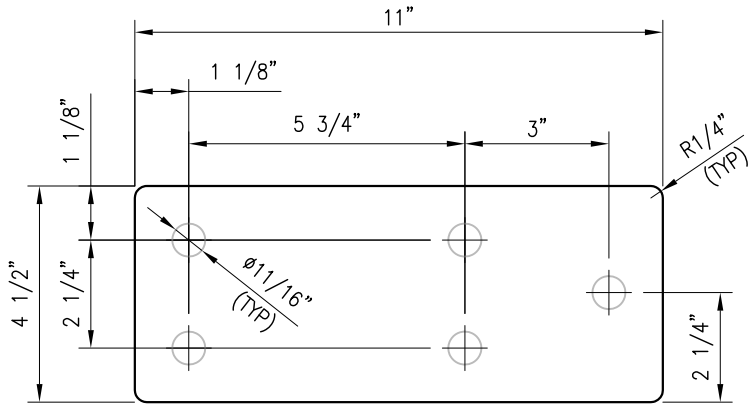
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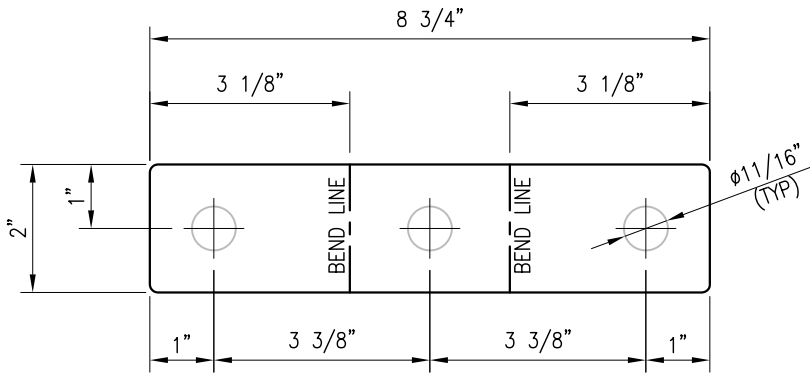
SS-3

REV #:

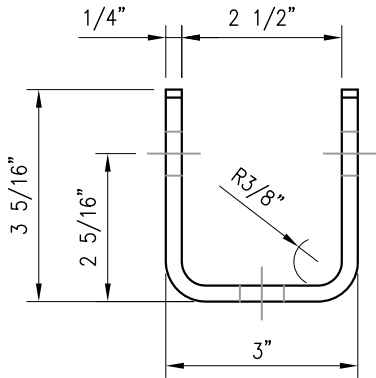
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PL375-4511
PL 3/8" X 4 1/2" X 11" A36
(3.64 LBS)

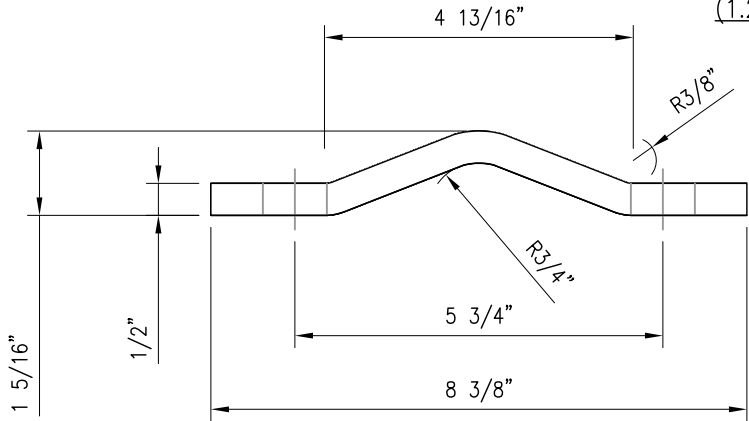


BEFORE BENDING

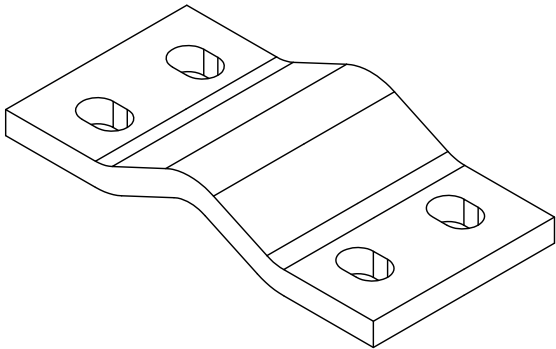


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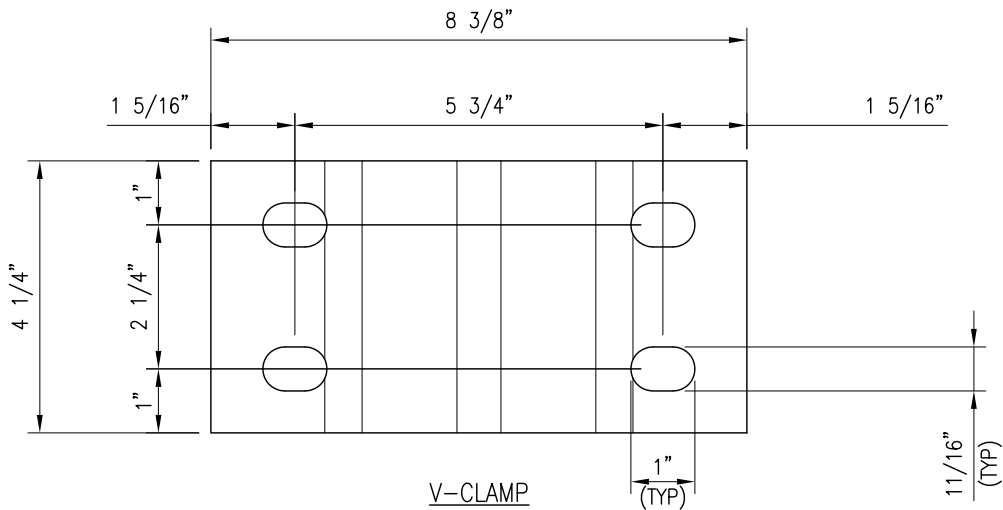
BP2-875
PL 1/4" X 2" X 8 3/4" A36 BENT PLATE
(1.27 LBS)



V-CLAMP
TOP VIEW



V-CLAMP
ISOMETRIC VIEW



V-CLAMP
FRONT VIEW

V-CLAMP
PL 1/2" X 4 1/4" X 8 5/8" A36 BENT PLATE
(5.00 LBS)

- NOTES:
1. HOT-DIPPED GALVANIZED PER ASTM A123.
 2. ALL HOLES ARE 11/16" DIA. U.N.O



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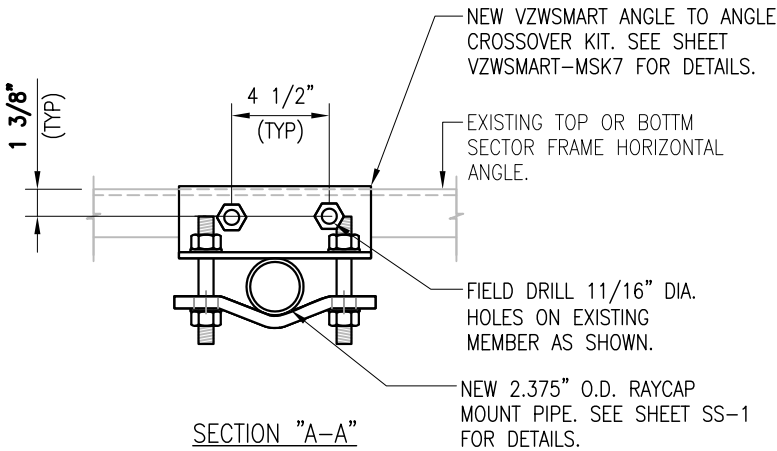
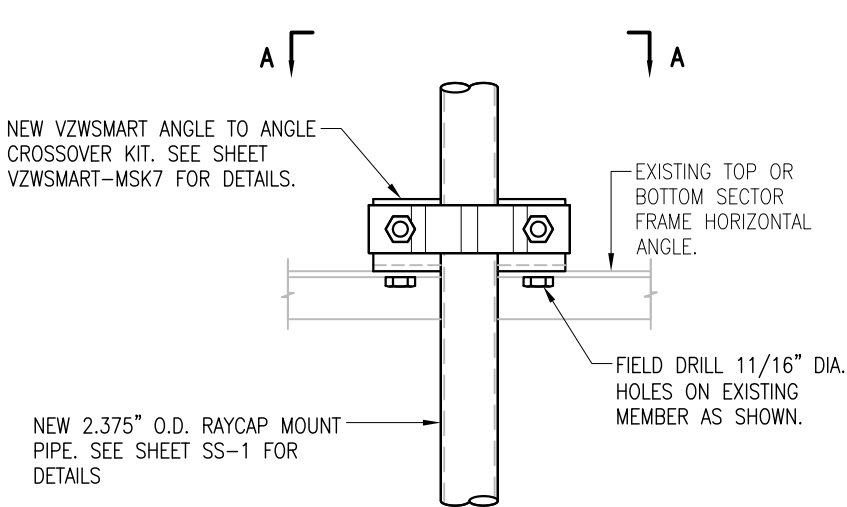
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SS-4

0



1
SS-5 DETAIL

- NOTES:
- 1. HOT-DIPPED GALVANIZED PER ASTM A123.
 - 2. ALL HOLES ARE 11/16" DIA. U.N.O



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SS-5

REV #:

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NOTE:
EXISTING RRUS/EQUIPMENT MAY BE RELOCATED
ALONG THE MEMBER TO ACCOMMODATE THE
INSTALLATION OF NEW MOUNT MODIFICATION



EXISTING ANTENNA MOUNT
@ 124' ELEV

PHOTO 1



PHOTO 2



PHOTO 3



PHOTO 4



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MOUNT PHOTOS

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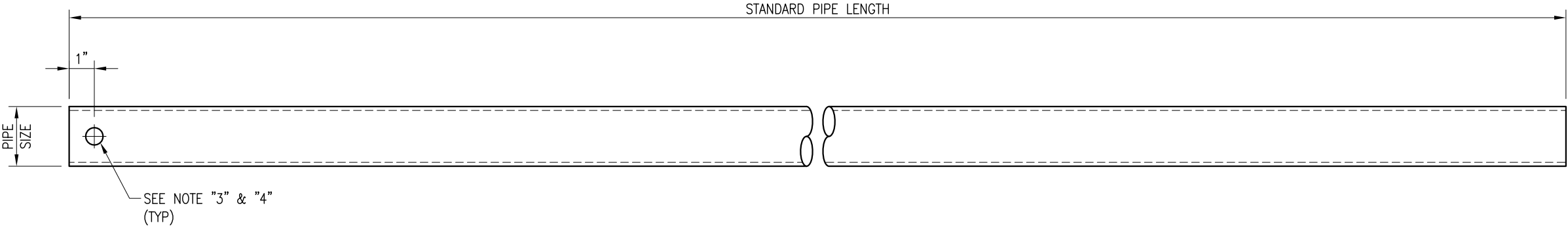
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SS-6

REV #:

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THE FOLLOWING DRAWINGS ARE INCLUDED FOR REFERENCE ONLY
PLEASE REFER TO THE INSTALLATION DRAWINGS FOR ACTUAL INSTALLATION DETAILS



VZWSMART Standard Pipe		
VZWSMART Number	Size	Length
P40-238X048	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	48"
P40-238X072	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	72"
P40-238X096	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	96"
P40-238X120	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	120"
P40-238X126	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	126"
P40-238X150	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	150"
P40-238X174	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	174"
P40-278X048	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	48"
P40-278X072	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	72"
P40-278X096	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	96"
P40-278X120	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	120"
P40-278X126	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	126"
P40-278X150	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	150"
P40-278X174	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	174"
P40-312X048	PIPE 3 SCH40 (3.5" OD x 0.216" THK)	48"
P40-312X072	PIPE 3 SCH40 (3.5" OD x 0.216" THK)	72"
P40-312X126	PIPE 3 SCH40 (3.5" OD x 0.216" THK)	126"
P40-312X150	PIPE 3 SCH40 (3.5" OD x 0.216" THK)	150"
P40-312X174	PIPE 3 SCH40 (3.5" OD x 0.216" THK)	174"

NOTE:
APPROVED SMART KIT VENDORS ARE ALLOWED TO SUBSTITUTE AT THEIR DISCRETION
PIPES LISTED ON THIS PAGE FOR CUSTOM LENGTH COMPONENTS OF MATCHING SIZE.
SUBSTITUTIONS SHALL MEET THE ORIGINAL STRUCTURAL INTENT.

- NOTES:
1. ALL PIPE GRADE A53–B OR BETTER.
 2. HOT–DIPPED GALVANIZED PER ASTM A123.
 3. ALL HOLES ARE 11/16" DIA. U.N.O
 4. HOLES MAY OR MAY NOT BE PRESENT, DEPEND UPON MANUFACTURE DISCRETION.
 5. ALL FIELD CUT AND DRILLED SURFACES SHALL BE REPAIRED WITH A MINIMUM OF TWO COATS OF ZINGA OR ZINC COTE PER ASTM A780 AND MANUFACTURER’S RECOMMENDATIONS.

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SMART Tool[©]
Vendor

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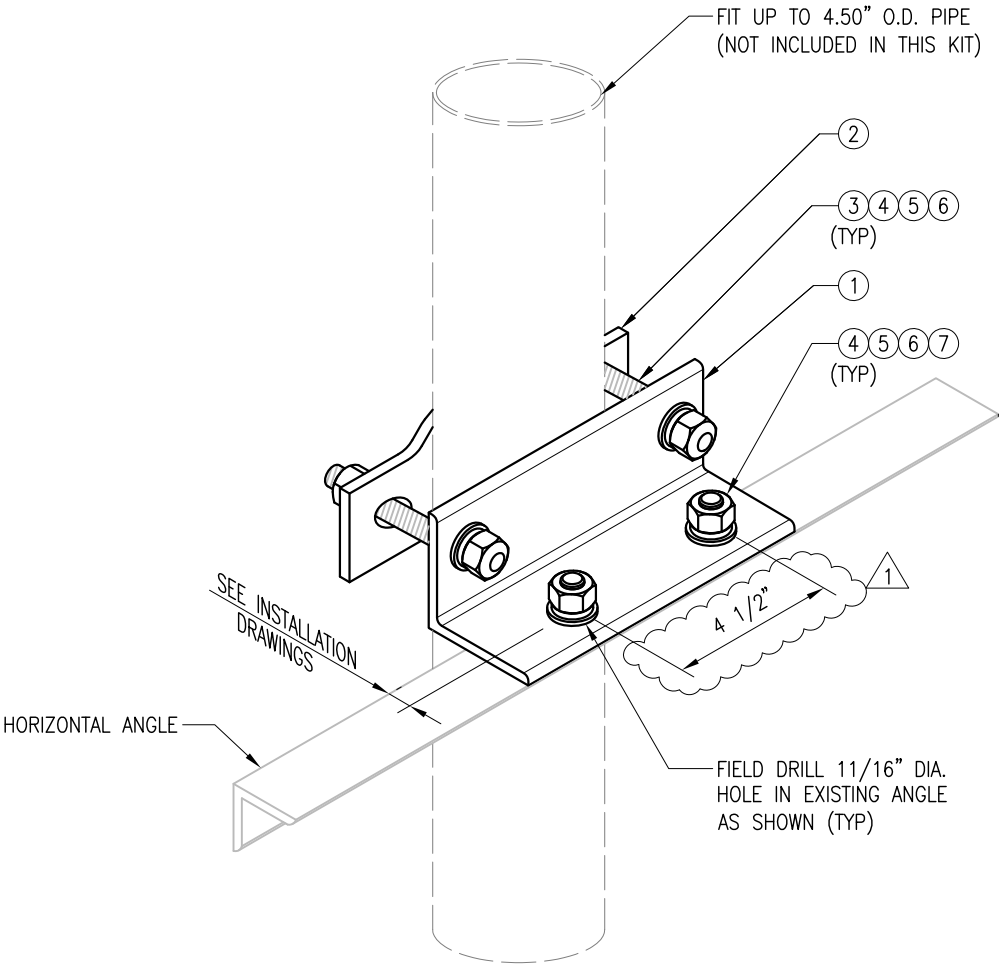
VZWSMART
STANDARD PIPE

SHEET NUMBER:

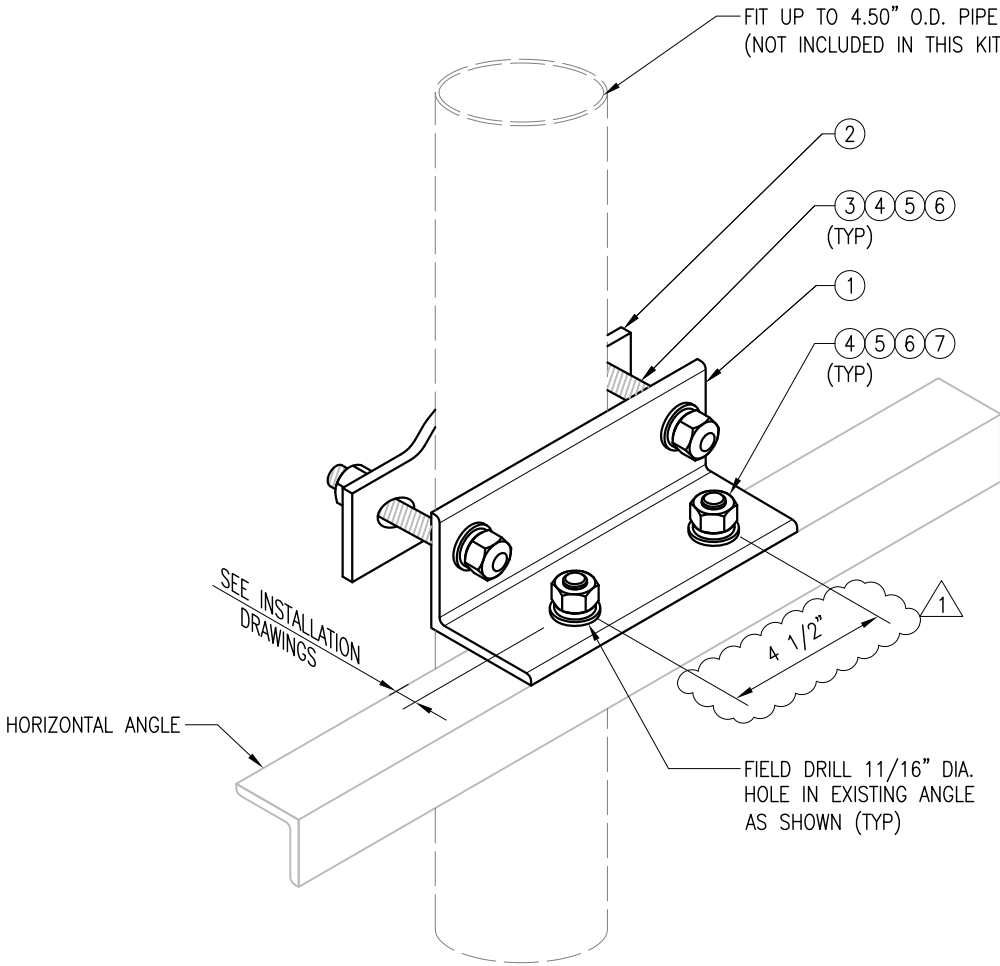
VZWSMART–PIPE

REV #:

0



OPTION 1



OPTION 2

ANGLE TO ANGLE CROSSOVER KIT

VZWSMART-MSK7 (ANGLE TO ANGLE CROSSOVER KIT)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	L3325-0.7	L 3" X 3" X 1/4" X 0'-8" A36	MSK7-F2	3.33
2	1	VCP	PL 1/2" X 2" X 8 5/8" A36 BENT PLATE	MSK7-F1	2.4
3	2	---	BOLT 5/8" DIA. X 6" FULL THREAD SAE GR 5	---	---
4	4	NUT-625	5/8" HDG HEX NUT	---	0
5	6	FW-625	5/8" HDG USS FLAT WASHER	---	0
6	4	LW-625	5/8" HDG LOCK WASHER	---	0
7	2	---	BOLT 5/8" X 2" A325	---	0
GALVANIZED WT					7

- NOTES:
- HOT-DIPPED GALVANIZED PER ASTM A123.
 - USE PROVIDED ADDITIONAL FLAT WASHERS FOR CONNECTING TO 3/16" THICK HORIZONTAL ANGLE

VzW
SMART Tool[®]
Vendor



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REV.	DESCRIPTION	BY	DATE
1	FIRST ISSUE	SK	05/08/20
1	REVISED	BT	05/10/21

SHEET TITLE:
VZWSMART-MSK7
ANGLE TO ANGLE
CROSSOVER KIT

SHEET NUMBER: VZWSMART-MSK7
REV #: 1

ATTACHMENT B-6

Equipment Compound and Antenna Facilities

Equipment Compound and Shelter: 11'-8" x 16' area identified as the Licensee's Shelter on Attachment A-2(C) and A-3.

Antenna Facilities:

Type:	(6) Amphenol CWWX063X25G00 Antennas
	(3) Amphenol W85-19-X28-T2-1920 Antennas
	(3) Samsung L-SUB 6 MT6407-77A Antennas
	(3) B2/B66A RRH BR049
	(3) B5/B13 RRH BR04C
	(1) 12-OVP Tower
	(2) 6-OVP Tower
	(2) 6-OVP Shelter
	(3) Amphenol MKS09T07TWIN mounts

Centerline Height:	121-124'
--------------------	----------

Cables:	(6) 1-5/8" Coax Cables
	(1) 12 x 24 Hybriflex Cable
	(2) 6 x 12 Hybriflex Cables
	(3) 1/4" Homerun RET Cables

Fiber Junction Box and 4" Fiber Conduit

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Signing Complete	Security Checked	11/18/2021 4:22:56 AM
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- i. decline to sign a document from within your signing session, and on the subsequent page, select the check-box indicating you wish to withdraw your consent, or you may;
- ii. send us an email to tricsha.fatakia@verizonwireless.com and in the body of such request you must state your email, full name, mailing address, and telephone number. We do not need any other information from you to withdraw consent.. The consequences of your withdrawing consent for online documents will be that transactions may take a longer time to process..

Required hardware and software

The minimum system requirements for using the DocuSign system may change over time. The current system requirements are found here: <https://support.docusign.com/guides/signer-guide-signing-system-requirements>.

Acknowledging your access and consent to receive and sign documents electronically

To confirm to us that you can access this information electronically, which will be similar to other electronic notices and disclosures that we will provide to you, please confirm that you have read this ERSD, and (i) that you are able to print on paper or electronically save this ERSD for your future reference and access; or (ii) that you are able to email this ERSD to an email address where you will be able to print on paper or save it for your future reference and access. Further, if you consent to receiving notices and disclosures exclusively in electronic format as described herein, then select the check-box next to 'I agree to use electronic records and signatures' before clicking 'CONTINUE' within the DocuSign system.

By selecting the check-box next to 'I agree to use electronic records and signatures', you confirm that:

- You can access and read this Electronic Record and Signature Disclosure; and
- You can print on paper this Electronic Record and Signature Disclosure, or save or send this Electronic Record and Disclosure to a location where you can print it, for future reference and access; and
- Until or unless you notify VBG Network Real Estate as described above, you consent to receive exclusively through electronic means all notices, disclosures, authorizations, acknowledgements, and other documents that are required to be provided or made available to you by VBG Network Real Estate during the course of your relationship with VBG Network Real Estate.