



10740 NALL AVE,  
SUITE 400  
OVERLAND PARK, KS 66211  
PHONE: 913-344-2800

# KCYC LEES SUMMIT C-BAND - CARRIER ADD

900 SW BLUE PKWY  
LEES SUMMIT, MO 64063

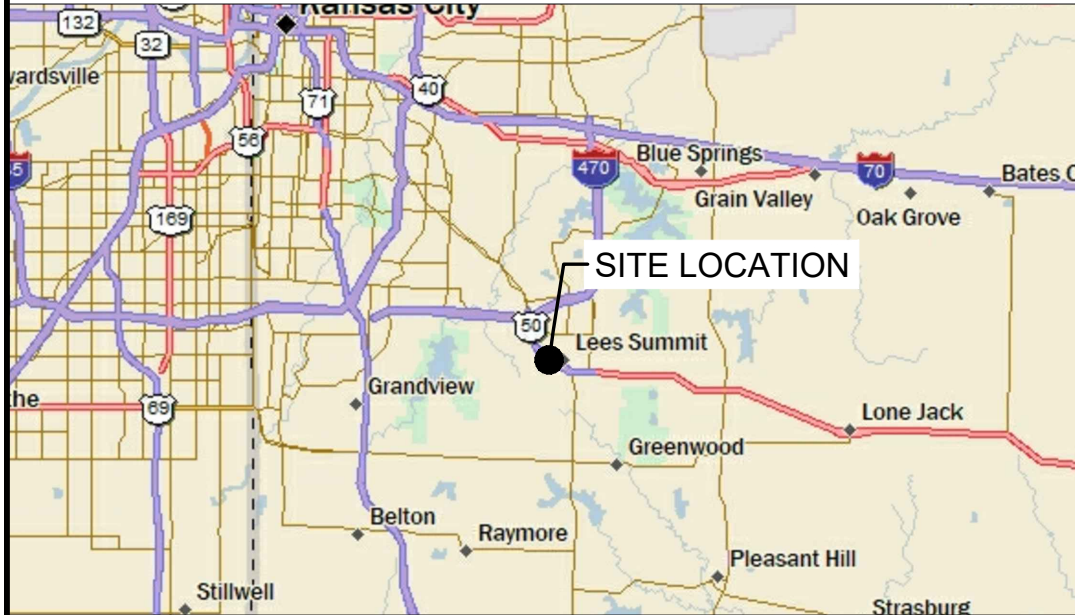
## PROJECT TEAM

A&E CONSULTANT: TERRA CONSULTING GROUP, LTD  
600 BUSSE HIGHWAY  
PARK RIDGE, IL 60068  
PHONE: (847) 698-6400  
FAX: (847) 698-6401

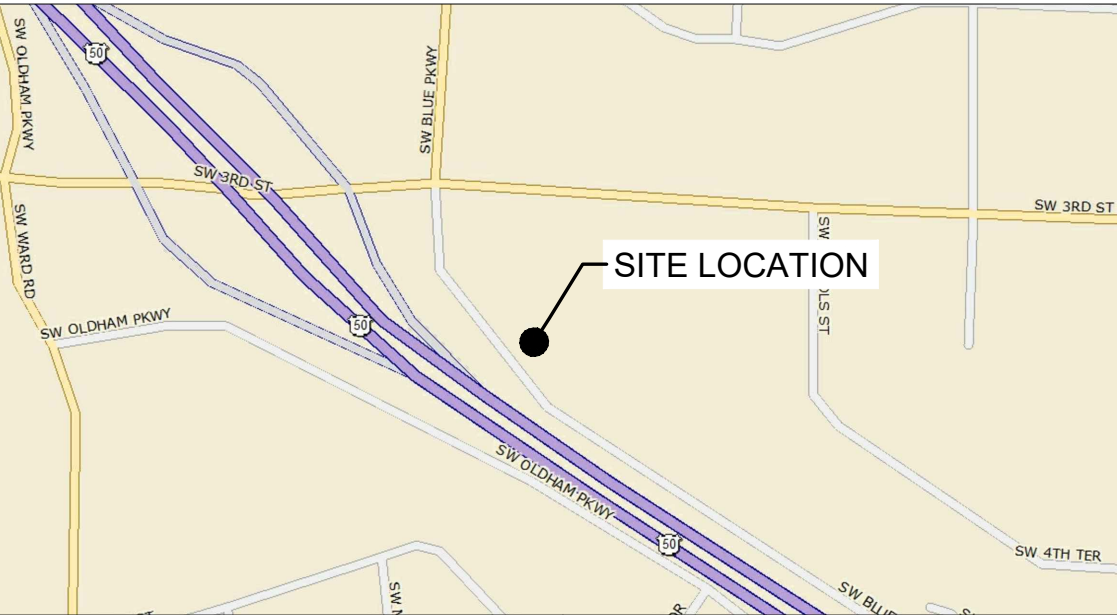
SITE ACQUISITION: FAULK & FOSTER  
POC: SHARLA BATES  
(816) 678-2184

STRUCTURAL: PROVIDED BY TOWER OWNER

## REGIONAL MAP



## VICINITY MAP



## PROJECT INFORMATION

PROJECT DESCRIPTION: C-BAND - CARRIER ADD

SITE NAME: KCYC LEES SUMMIT

LOCATION #: 140684

VERIZON PROJECT #: 20202201695

FUZE PROJECT ID: 16248298

SITE ADDRESS: 900 SW BLUE PKWY  
LEES SUMMIT, MO 64063

TOWER OWNER: ATC  
SITE NAME: LEE'S SUMMIT 2  
SITE #: 209106  
FCC ASR#: 1280041

APPLICANT: VERIZON WIRELESS  
10740 NALL AVE, SUITE 400  
OVERLAND PARK, KS 66211  
(913) 344-2896

POWER COMPANY: EVERGY  
RON DEJARNETTE (816) 810-5234  
ACCT#: 9035668338

## CONTRACTOR PMI REQUIREMENTS

PMI ACCESSED AT <https://pmi.vzwsmart.com>

SMART TOOL VENDOR PROJECT NUMBER 10023391

VZW LOCATION CODE (PSLC) 140684

FUZE ID 16248298

## SCOPE OF WORK

- ADD L-SUB6 5G
- INSTALL 4449 AND 8843 ON THE TOWER.
- REMOVE EXISTING 4449 INSIDE THE SHELTER.
- UPGRADE ANTENNAS

## TOWER INFORMATION

LATITUDE: 38° 54' 36.63" N

LONGITUDE: 94° 23' 28.47" W

GROUND ELEVATION: 1017 FT A.M.S.L.

OVERALL STRUCTURE HEIGHT: 154 FT ± A.G.L.

TOWER HEIGHT: 150 FT ± A.G.L.

VZW CL HEIGHT: 150 FT A.G.L.

## SHEET INDEX

SHEET	DESCRIPTION	REV.
T-1	TITLE SHEET	0,1
C-1	SITE LAYOUT	0,1
ANT-1	SITE ELEVATION	0
ANT-2	ANTENNA KEYS & LAYOUT	0
ANT-3	SECTOR PLAN & ELEVATION DETAILS	0
ANT-4	COAX ENTRY PANEL & PARTS LIST	0
ANT-5	ANTENNA PLUMBING DIAGRAM	0
ANT-6	SITE DETAILS	0
N-1	GENERAL NOTES & SITE PHOTOS	0

**RELEASED FOR  
CONSTRUCTION**  
As Noted on Plans Review

Development Services Department  
Lee's Summit, Missouri  
01/21/2022

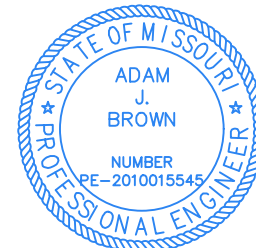
\*\*\* PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT

MOUNT MODIFICATION REQUIRED	Y
VZW APPROVED SMART KIT VENDORS	
REFER TO MOUNT MODIFICATION DRAWINGS PAGE FOR VZW SMART KIT APPROVED VENDORS	

## VERIZON WIRELESS DEPARTMENTAL APPROVALS

	INITIALS:	DATE:
RF ENGINEER	CF	12/28/20
TRANSPORT ENGINEER		
OPERATIONS MANAGER		
CONSTRUCTION ENGINEER	BW	12/29/20
CONSTRUCTION MANAGER		
REAL ESTATE MANAGER	SK	1/26/21

## PROFESSIONAL ENGINEER'S STAMP



01/05/2022

## LESSOR / LICENSOR APPROVAL

PRINTED NAME: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

☐ NO CHANGES ☐ CHANGES REQUESTED, SEE COMMENTS ON PLANS



REVISIONS		DATE	BY
DESCRIPTION	NO.		
ISSUED FOR REVIEW	A	12/17/20	JGL
POWER UPGRADE	B	08/17/21	BE
ISSUED FOR CONSTRUCTION	0	09/01/21	BE
REMOVAL OF REV B POWER UPGRADE	1	01/05/22	CEB

LOC# 140684  
KCYC  
LEES SUMMIT  
900 SW BLUE PKWY  
LEES SUMMIT, MO 64063

DRAWN BY:	JGL
CHECKED BY:	AJB
DATE:	12/17/20
PROJECT #:	54-1356

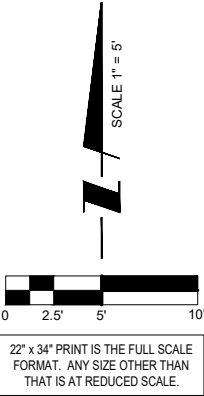
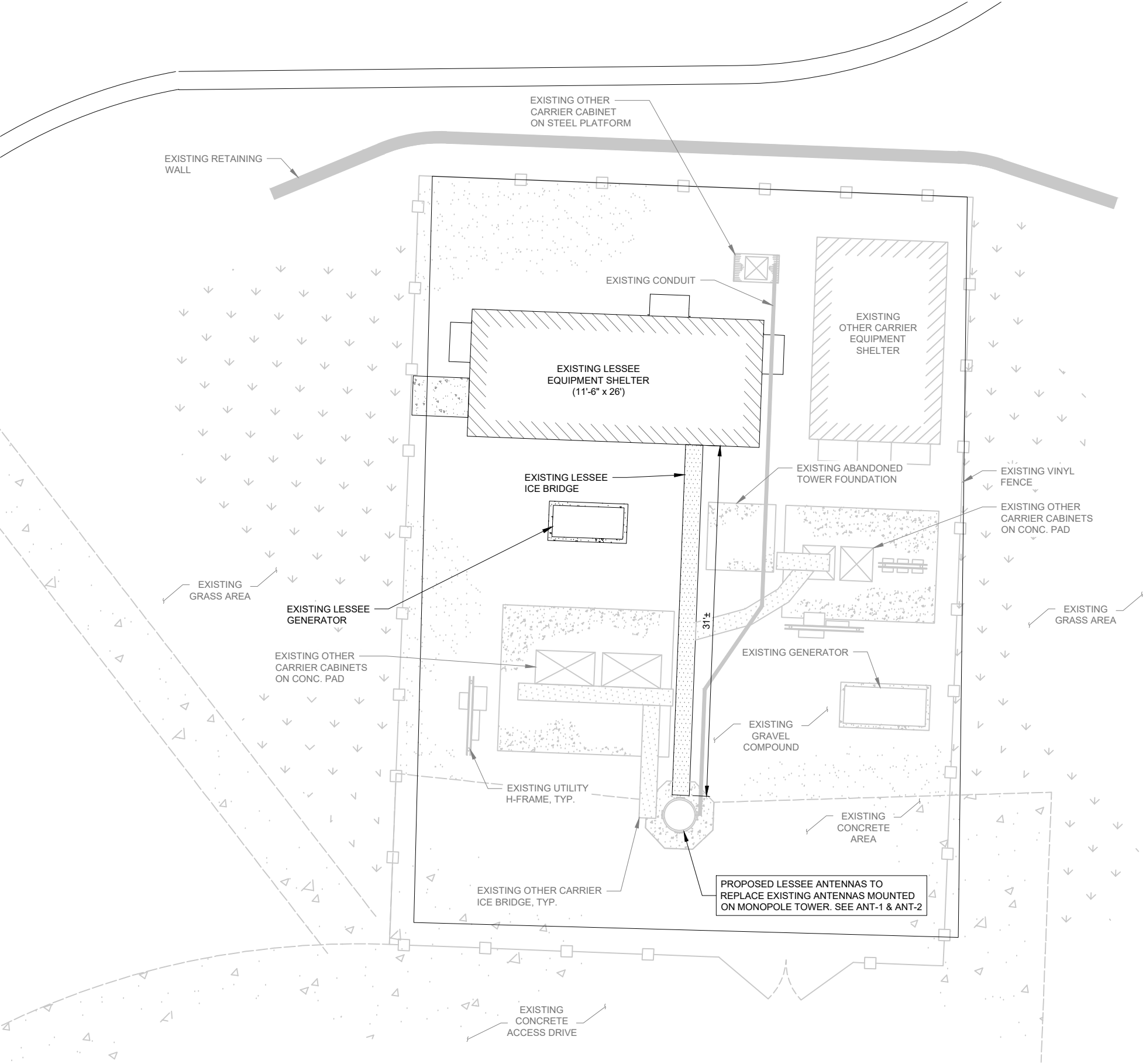
SHEET TITLE

TITLE SHEET

SHEET NUMBER

**T-1**

THIS SITE PLAN WAS CREATED OFF OF FIELD MEASUREMENTS BY THE DESIGNER. AS BOUNDARY SURVEY WAS NOT SUPPLIED FOR PURPOSES OF SITE LAYOUT.



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**MISSOURI**  
**ONE CALL SYSTEM**  
CALL BEFORE YOU  
DIG - DRILL - BLAST  
1-800-344-7483  
TOLL FREE

**1 SITE LAYOUT**  
SCALE: 1" = 5'

**verizon**  
10740 NALL AVE, SUITE 400  
OVERLAND PARK, KS 66211

**TERRA**  
CONSULTING GROUP, LTD.  
600 BUSSE HIGHWAY  
PARK RIDGE, IL 60068  
PH: 847-698-6400  
FAX: 847-698-6401

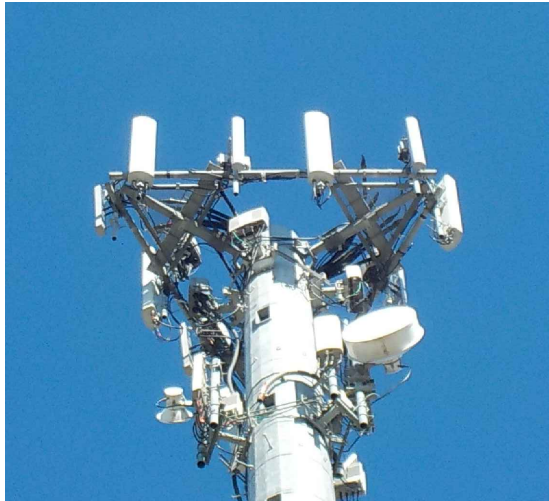
REVISIONS		DESCRIPTION	DATE	BY
NO.	A	ISSUED FOR REVIEW	12/17/20	JGL
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**LEES SUMMIT**  
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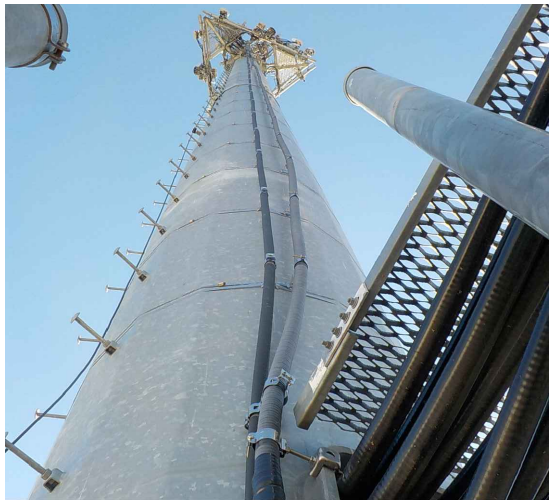
DRAWN BY:	JGL
CHECKED BY:	AJB
DATE:	12/17/20
PROJECT #:	54-1356

SHEET TITLE  
**SITE LAYOUT**

SHEET NUMBER  
**C-1**



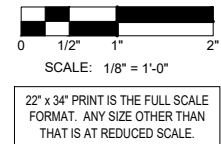
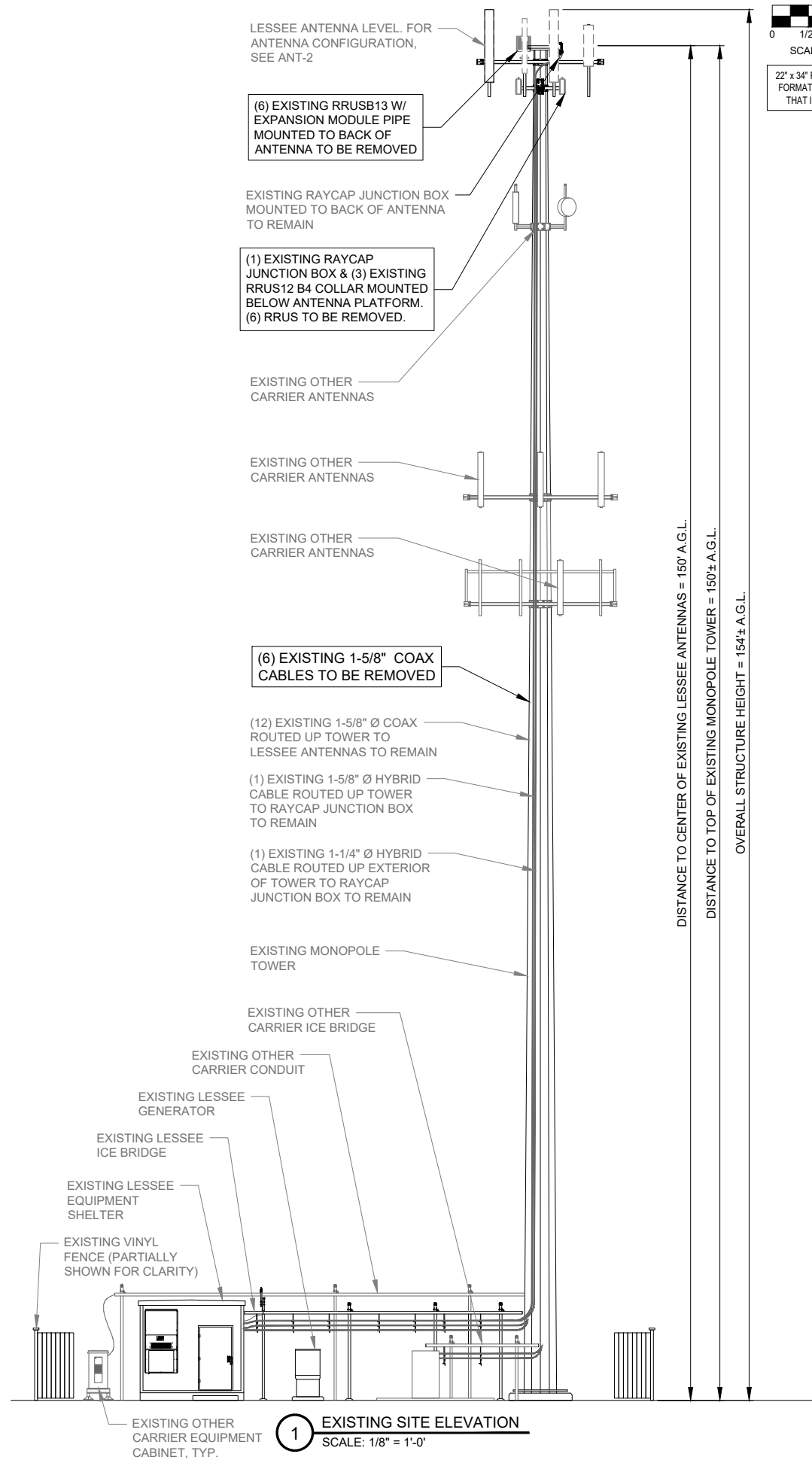
3 TYPICAL LESSEE ANTENNA SECTOR



4 LESSEE COAX ROUTE ON TOWER

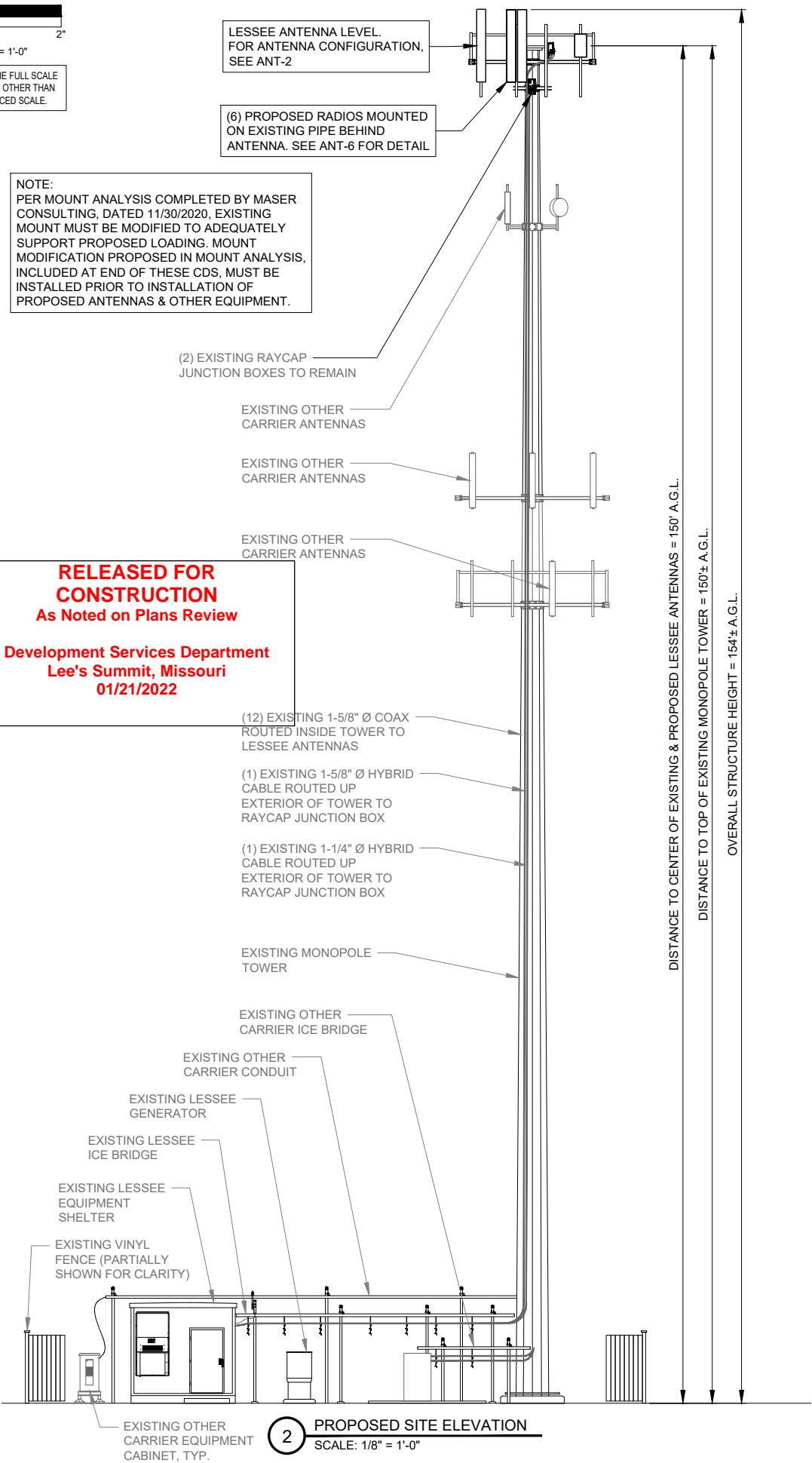
NOTES

1. THIS DRAWING IS FOR EXHIBIT AND LAYOUT PURPOSES ONLY.
2. REFER TO PASSING STRUCTURAL ANALYSIS BY TOWER OWNER.
3. REFER TO MOUNT MODIFICATION DESIGN ATTACHED TO THIS SET.



NOTE:  
PER MOUNT ANALYSIS COMPLETED BY MASER CONSULTING, DATED 11/30/2020, EXISTING MOUNT MUST BE MODIFIED TO ADEQUATELY SUPPORT PROPOSED LOADING. MOUNT MODIFICATION PROPOSED IN MOUNT ANALYSIS, INCLUDED AT END OF THESE CDS, MUST BE INSTALLED PRIOR TO INSTALLATION OF PROPOSED ANTENNAS & OTHER EQUIPMENT.

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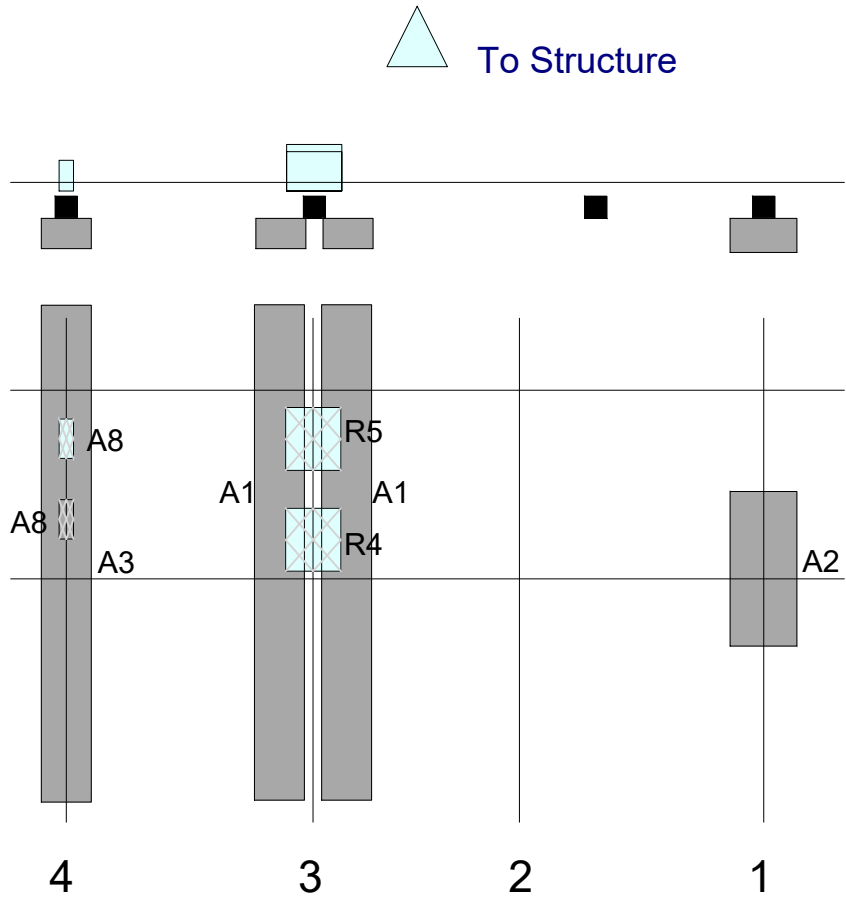
DRAWN BY:	JGL
CHECKED BY:	AJB
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PROJECT #:	54-1356

SHEET TITLE
SITE ELEVATION
SHEET NUMBER
ANT-1

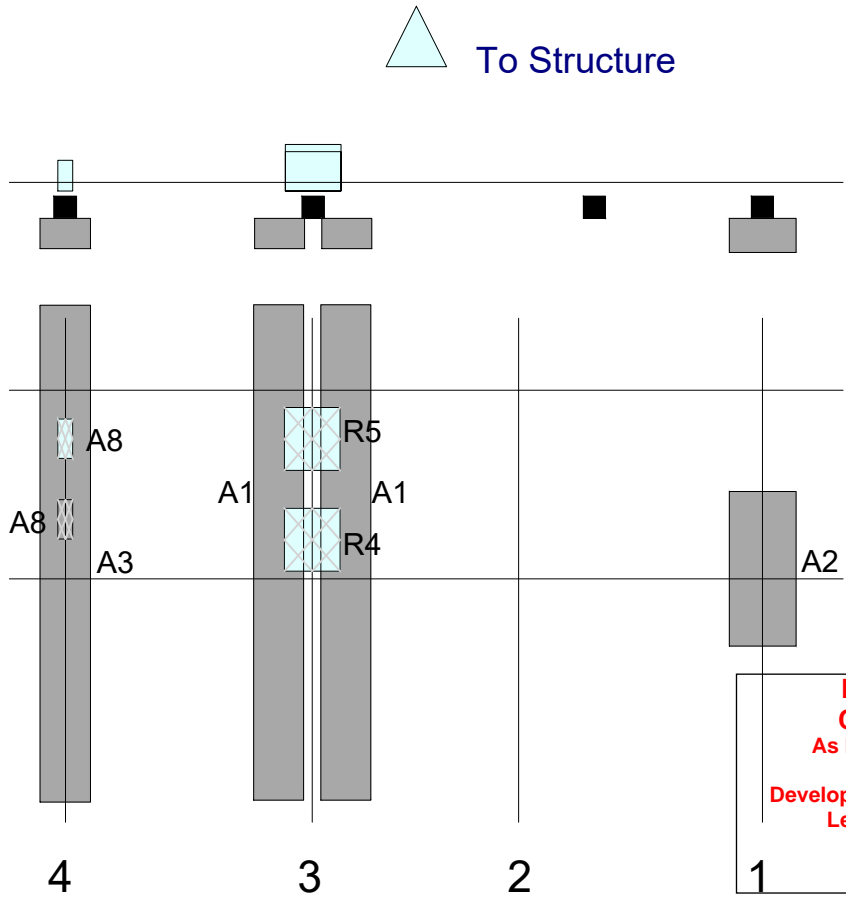
PROPOSED ANTENNA KEY																																																		
	Position	Status	Antenna Centerline (ft AGL)	Antenna Make / Model	Antenna Count	Height (in)	Width (in)	Depth (in)	Weight (lbs)	Azimuth (true north)	Mech Down tilt	Electrical Down tilt	TMA Make/Model	TMA Count	Diplexer Make/Model	Diplexer Count	Coax Make/Model	Coax Count	Coax Size	Coax Length	RRU Make/Model	RRU Count	Distribution Box Make/Model	Raycap Count	Hybrid Cable Make/Model	Hybrid Cable Count	Hybrid Cable Size	Hybrid Cable Length	Hybrid Jumper Count	Hybrid Jumper Size	Hybrid Jumper Length	RF Jumper Count	RF Jumper Length																	
Mainline Cable & Distribution																						RFS/RFS DB-81-6C-12AB-02	2	RFS/HBF-158-13UGS6	1	1-5/8"	200																							
																								RFS/HBF-114-13UGS12	1	1-1/4"	200																							
Alpha Sector	A	proposed	150	nL-SUB6 VZE01	1	30.4	15.9	8.1	81.6	0	0	3																	2	5/8"	15																			
	B	empty																																																
	C	proposed	150	COMMSCOPE NHH-65C-R2B	1	96	11.9	7.1	51.6	0	0	5	ADC/CG-1900DD	2			AVA7-50	2	1-5/8"	200	E/// 8843	1								1	5/8"	15	8	10																
	D	proposed	150	COMMSCOPE NHH-65C-R2B	1	96	11.9	7.1	51.6	0	0	5																		1	5/8"	15	4	10																
Beta Sector	E	existing	150	Andrew/LNX-6515DS-A1M	1	96.6	11.9	7.1	43.7	0	4	5																	1	5/8"	15		2	10																
	F	proposed	150	nL-SUB6 VZE01	1	30.4	15.9	8.1	81.6	120	0	3																																						
	G	empty																																																
	H	proposed	150	COMMSCOPE NHH-65C-R2B	1	96	11.9	7.1	51.6	120	0	8	ADC/CG-1900DD	2			AVA7-50	2	1-5/8"	200	E/// 8843	1								1	5/8"	15	8	10																
Gamma Sector	I	proposed	150	COMMSCOPE NHH-65C-R2B	1	96	11.9	7.1	51.6	120	0	8																	1	5/8"	15	4	10																	
	J	existing	150	Andrew/LNX-6515DS-A1M	1	96.6	11.9	7.1	43.7	120	3	5																	1	5/8"	15		2	10																
	K	proposed	150	nL-SUB6 VZE01	1	30.4	15.9	8.1	81.6	240	0	3																																						
	L	empty																																																
	M	proposed	150	COMMSCOPE NHH-65C-R2B	1	96	11.9	7.1	51.6	240	0	8	ADC/CG-1900DD	2			AVA7-50	2	1-5/8"	200	E/// 8843	1							1	5/8"	15	8	10																	
	N	proposed	150	COMMSCOPE NHH-65C-R2B	1	96	11.9	7.1	51.6	240	0	8																	1	5/8"	15		4	10																
	O	existing	150	Andrew/LNX-6515DS-A1M	1	96.6	11.9	7.1	43.7	240	2	5																	1	5/8"	15		2	10																
				Antenna Total	12									TMA Total	6	Diplexer Total	0	Coax Total	12				RRU Total	6	Distro Box Total	2	Hybrid Cable Total	2	Jumper Total	12	RF Jumper Total	42																		

SHEET NUMBER

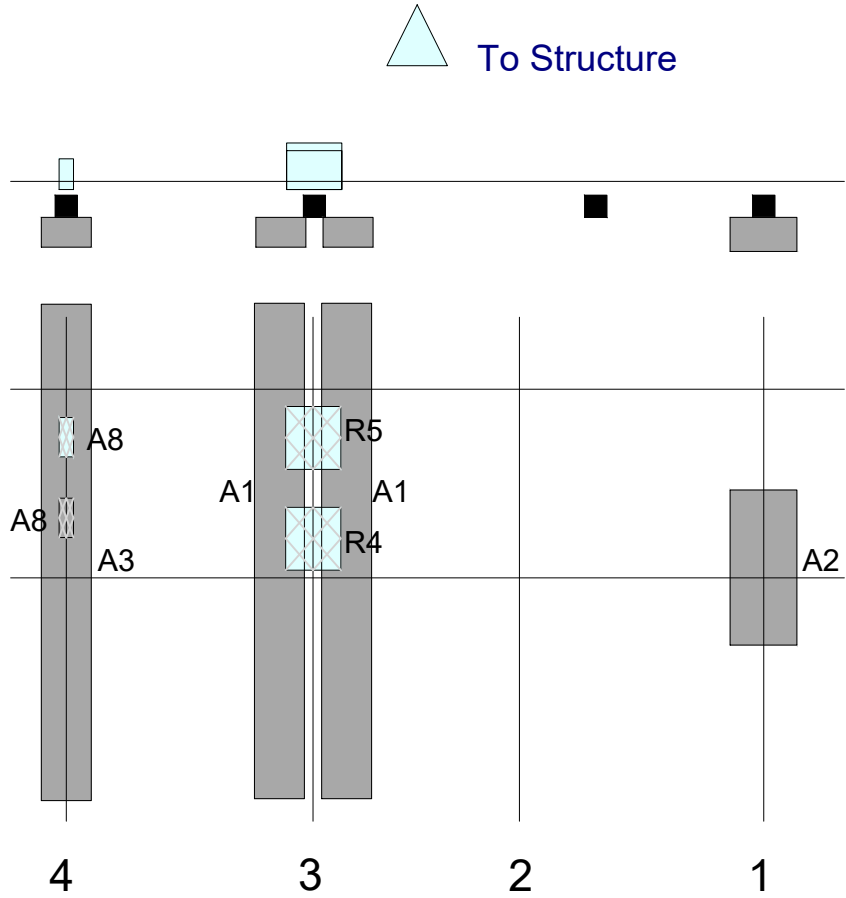
**ANT-2**



SECTOR: A



SECTOR: B



SECTOR: C

SECTOR: A

Ref#	Model	Height (in)	Width (in)	H Dist Frm L #	Pipe Frm L #	Pipe Pos V Pos	Ant Pos V Pos	C. Ant Frm T. H Off	Ant Frm T. H Off	Status	Validation
A2	VZE01	30.4	15.9	144	1	a	Front	48	0	Added	
A1	NHH-65C-R2B	96	11.9	59	3	a	Front	45	-6	Added	
A1	NHH-65C-R2B	96	11.9	59	3	b	Front	45	-6	Added	
R4	4449	15	13.2	59	3	a	Behind	42	0	Added	
R5	8843	15	13.2	59	3	a	Behind	24	0	Added	
A3	LNK-6515DS-A1M	96.4	11.9	12	4	a	Front	45	0	Retained	11/09/2017
A8	LGP13513	12.2	4.8	12	4	B	Behind	24	0	Added	
A8	LGP13513	12.2	4.8	12	4	B	Behind	39	0	Added	

SECTOR: B

Ref#	Model	Height (in)	Width (in)	H Dist Frm L #	Pipe Frm L #	Pipe Pos V Pos	Ant Pos V Pos	C. Ant Frm T. H Off	Ant Frm T. H Off	Status	Validation
A2	VZE01	30.4	15.9	144	1	a	Front	48	0	Added	
A1	NHH-65C-R2B	96	11.9	59	3	a	Front	45	-6	Added	
A1	NHH-65C-R2B	96	11.9	59	3	b	Front	45	-6	Added	
R4	4449	15	13.2	59	3	a	Behind	42	0	Added	
R5	8843	15	13.2	59	3	a	Behind	24	0	Added	
A3	LNK-6515DS-A1M	96.4	11.9	12	4	a	Front	45	0	Retained	11/09/2017
A8	LGP13513	12.2	4.8	12	4	B	Behind	24	0	Added	
A8	LGP13513	12.2	4.8	12	4	B	Behind	39	0	Added	

SECTOR: C

Ref#	Model	Height (in)	Width (in)	H Dist Frm L #	Pipe Frm L #	Pipe Pos V Pos	Ant Pos V Pos	C. Ant Frm T. H Off	Ant Frm T. H Off	Status	Validation
A2	VZE01	30.4	15.9	144	1	a	Front	48	0	Added	
A1	NHH-65C-R2B	96	11.9	59	3	a	Front	45	-6	Added	
A1	NHH-65C-R2B	96	11.9	59	3	b	Front	45	-6	Added	
R4	4449	15	13.2	59	3	a	Behind	42	0	Added	
R5	8843	15	13.2	59	3	a	Behind	24	0	Added	
A3	LNK-6515DS-A1M	96.4	11.9	12	4	a	Front	45	0	Retained	11/09/2017
A8	LGP13513	12.2	4.8	12	4	B	Behind	24	0	Added	
A8	LGP13513	12.2	4.8	12	4	B	Behind	39	0	Added	

ANTENNA PLACEMENT



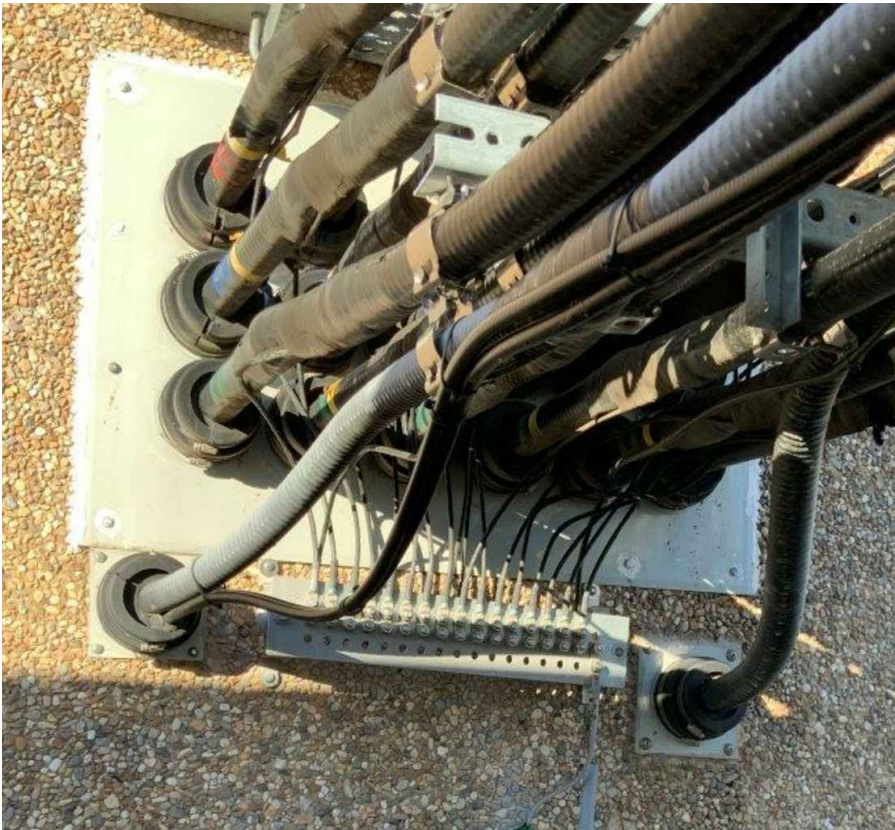
NO.	DESCRIPTION	DATE	BY	JGL	BE	BE	CEB				
A	ISSUED FOR REVIEW	12/17/20									
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DRAWN BY:	JGL
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SHEET TITLE  
SECTOR PLAN  
& ELEVATION DETAILS

SHEET NUMBER  
ANT-3

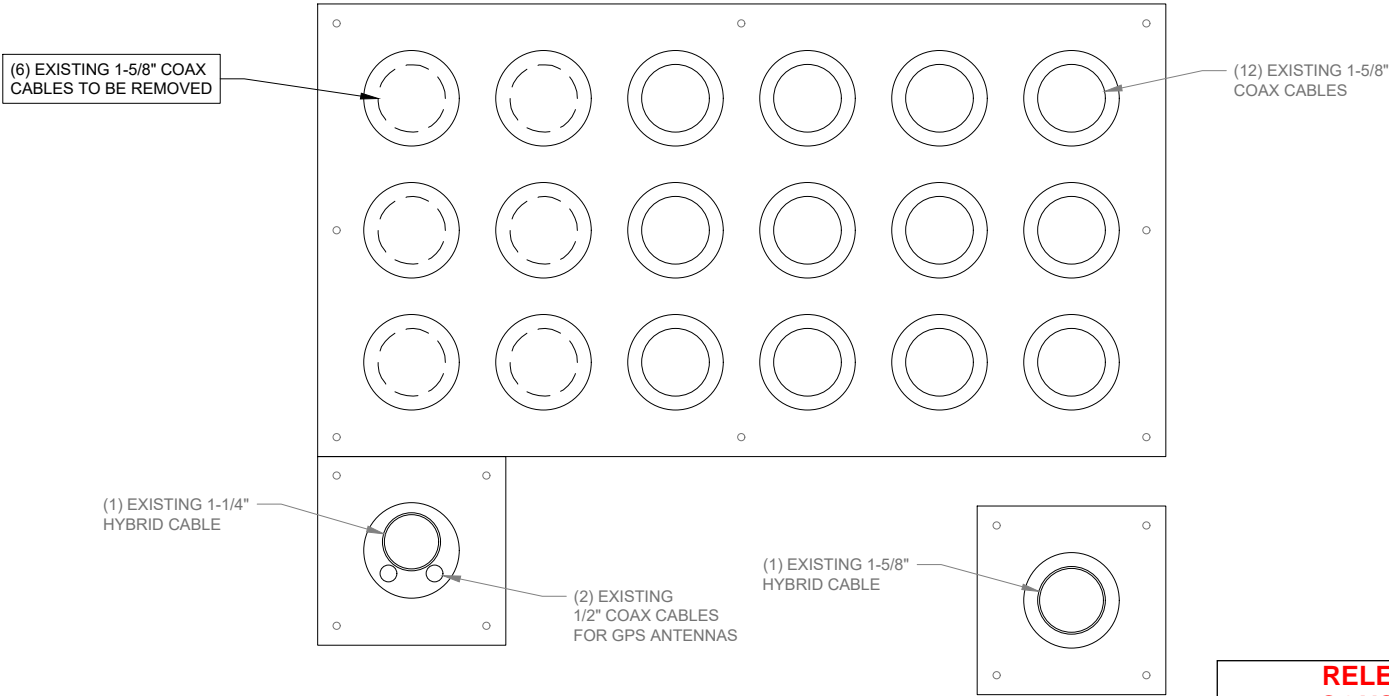


1 LESSEE ENTRY PANEL

PARTS LIST

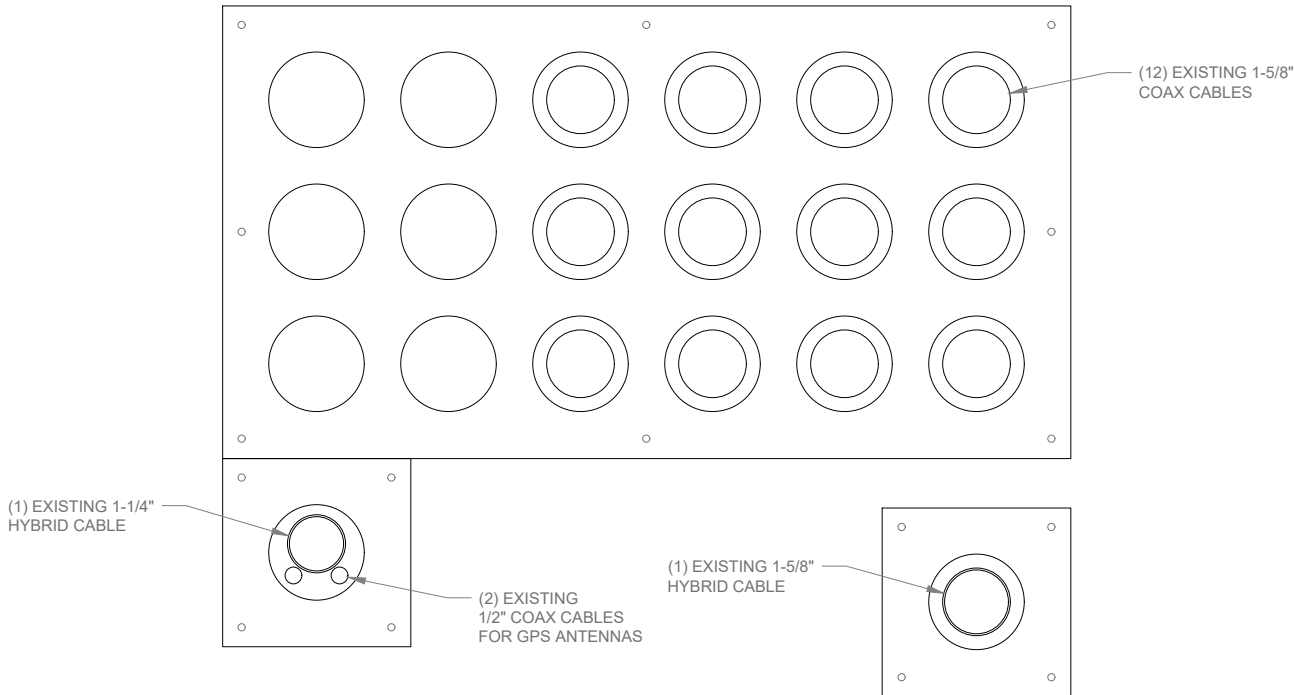
- (1) NEW L-SUB6 BBU
- (3) ERICSSON 5G VZE01
- (3) ERICSSON 8843 FOR AWS LTE
- (3) ERICSSON 4449 FOR 700, 850 LTE
- (6) COMMSCOPE NHH-65C-R2B
- (3) COMMSCOPE BRACKET BSAMNT-SBS-1-2
- (6) Y-CABLES RFS HBF058-08U2S1-15FY
- (6) 5/8"± FIBER JUMPERS

NOTE:  
G.C. TO VERIFY CORRECT  
LINES PRIOR TO DISCONNECTION



2 EXISTING ENTRY PANEL LAYOUT FROM OUTSIDE SHELTER  
N.T.S.

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3 PROPOSED ENTRY PANEL LAYOUT FROM OUTSIDE SHELTER  
N.T.S.



10740 NALL AVE, SUITE 400  
OVERLAND PARK, KS 66211



600 BUSSE HIGHWAY  
PARK RIDGE, IL 60068  
PH: 847-698-6400  
FAX: 847-698-6401

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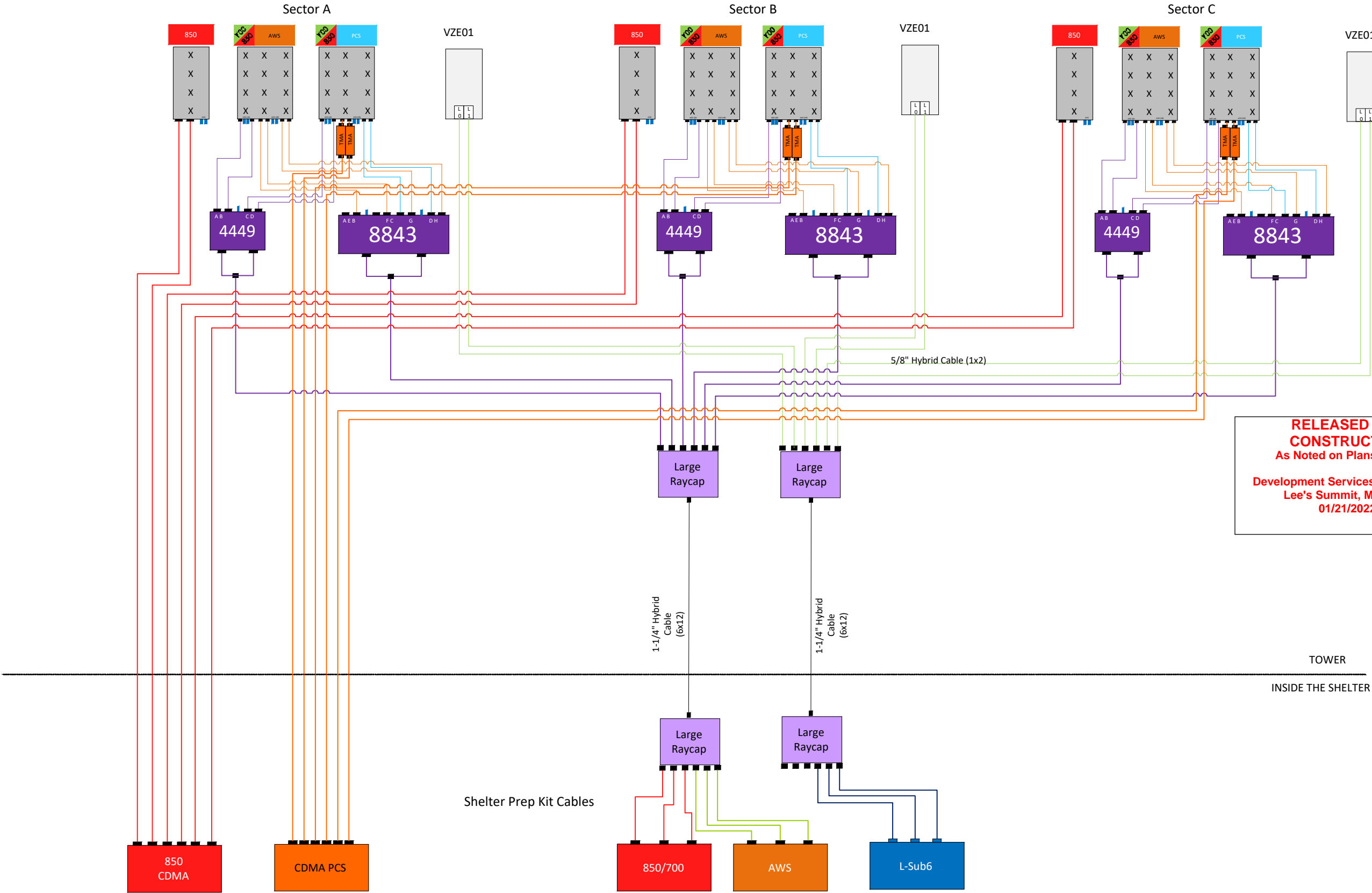
DRAWN BY:	JGL
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SHEET TITLE  
COAX ENTRY PANEL  
&  
PARTS LIST

SHEET NUMBER  
**ANT-4**

Arrangement of  
Antennas may not  
match arrangement on  
the tower

CDMA 850 / CDMA PCS / 700 LTE / AWS LTE / 850 LTE / 850 5G / L-Sub6



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SHEET TITLE  
ANTENNA  
PLUMBING DIAGRAM

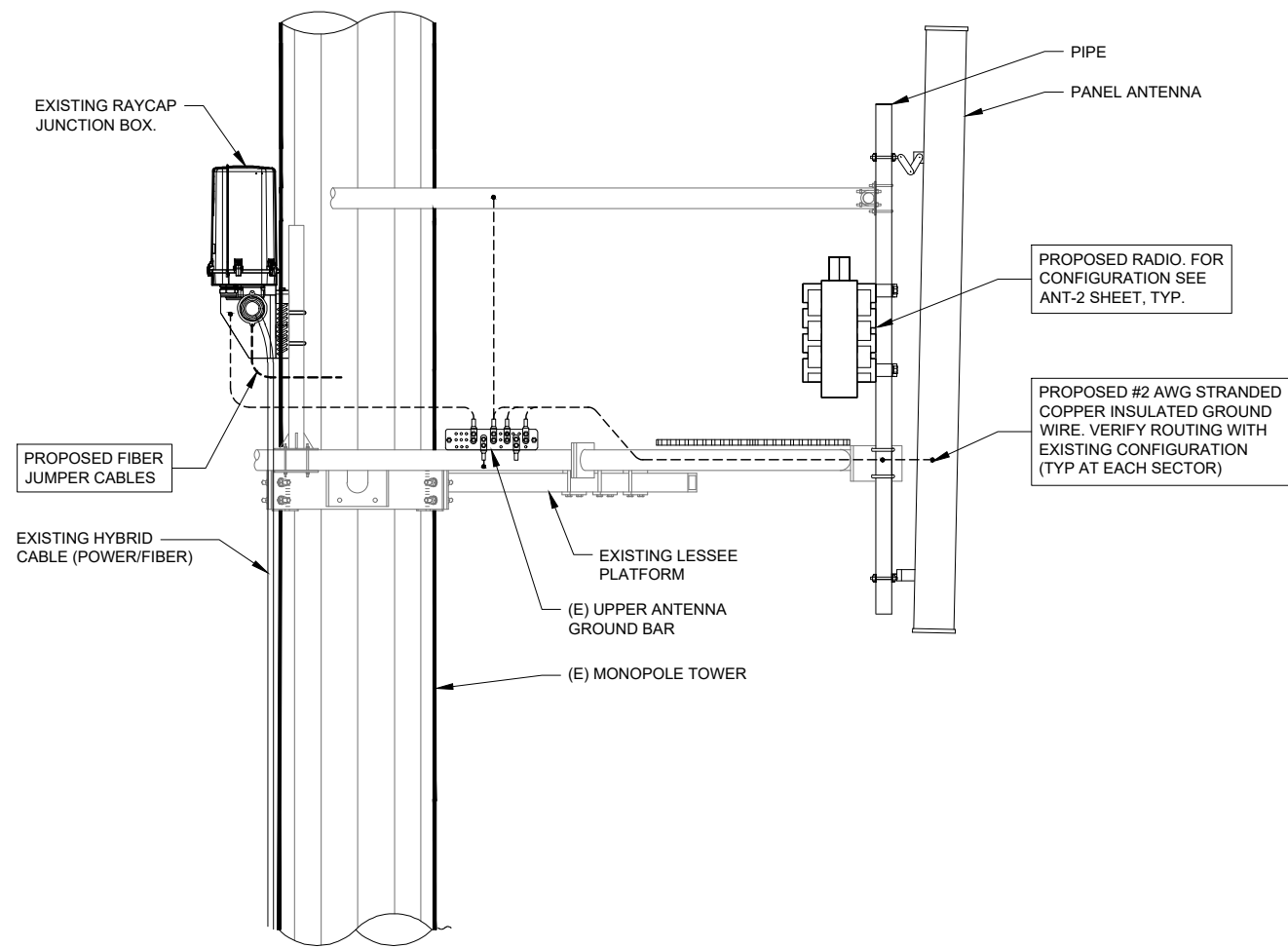
SHEET NUMBER  
**ANT-5**



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TERRA  
CONSULTING GROUP, LTD.  
600 BUSSE HIGHWAY  
PARK RIDGE, IL 60068  
PH: 847-698-6400  
FAX: 847-698-6401



**1** ANTENNA, RRU & RAYCAP JUNCTION BOX MOUNTING DETAIL  
SCALE: N.T.S.

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**verizon**  
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SHEET TITLE  
SITE DETAILS

SHEET NUMBER  
**ANT-6**

GENERAL NOTES

1.

THE CONTRACTOR SHALL SUPERVISE AND DIRECT ALL WORK USING HIS OR HER BEST SKILL AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
2.

THE CONTRACTOR SHALL VISIT THE JOB SITE TO REVIEW THE SCOPE OF WORK AND EXISTING CONDITIONS INCLUDING, BUT NOT LIMITED TO ELECTRICAL SERVICE AND OVERALL COORDINATION.
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 WIRELESS 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 VERIZON WIRELESS, AT THE EXPENSE OF THE CONTRACTOR.
5.

THE CONTRACTOR SHALL SAFEGUARD THE OWNER'S PROPERTY DURING CONSTRUCTION AND SHALL REPLACE ANY DAMAGED PROPERTY OF THE OWNER TO ORIGINAL CONDITION WITH THE APPROVAL OF THE OWNER.
6.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON 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.
7.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE SITE WHILE THE JOB IS IN PROGRESS AND UNTIL THE JOB IS COMPLETE.
8.

ALL CONSTRUCTION WORK SHALL CONFORM TO THE I.B.C. AND ALL APPLICABLE LOCAL REGULATIONS, ORDINANCES, STATUTES AND CODES.
9.

VERIZON WIRELESS SHALL OBTAIN THE CONSTRUCTION PERMIT, UNLESS JURISDICTION REQUIRES PERMIT TO BE PICKED UP BY A GENERAL CONTRACTOR. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ADDITIONAL PERMITS, LICENSES AND INSPECTIONS NECESSARY FOR PERFORMANCE OF THE WORK AND INCLUDE THOSE IN THE COST OF THE WORK TO THE OWNER.
10.

CITY APPROVED PLANS SHALL BE KEPT IN A PLAN BOX AND SHALL NOT BE USED BY WORKMEN. ALL CONSTRUCTION SETS SHALL REFLECT SAME INFORMATION. THE CONTRACTOR SHALL ALSO MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES. THESE ARE TO BE UNDER THE CARE OF JOB SUPERINTENDENT.
11.

THE CONTRACTOR SHALL PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A:10-B:C WITHIN 75 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF THE BUILD OUT AREA DURING CONSTRUCTION.
12.

ANY CONNECTION FEES FOR TEMPORARY ELECTRICAL SERVICE SHALL BE PAID BY THE CONTRACTOR.
13.

THE GENERAL CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY POWER. CONTRACTOR SHALL NOT USE THE VERIZON WIRELESS GENERATOR ON SITE.

ABBREVIATIONS

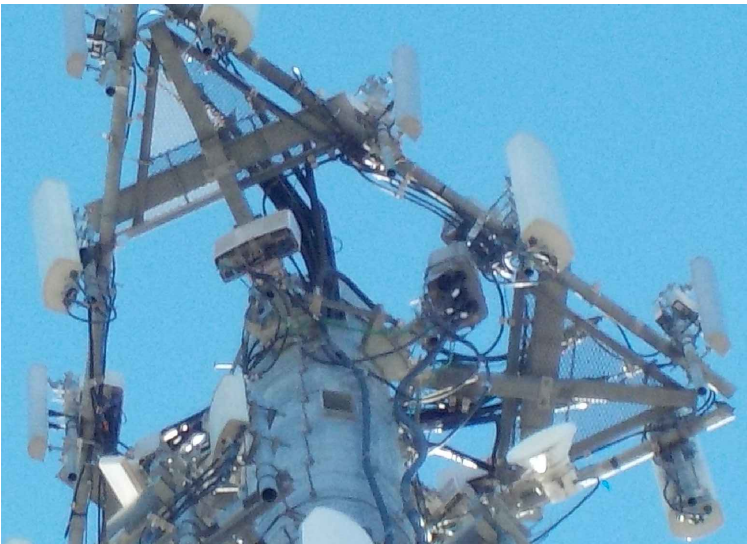
AGL	ABOVE GRADE LINE	GC	GENERAL CONTRACTOR
AMP	AMPERE	GND	GROUND
ARCH	ARCHITECT	HT	HEIGHT
BLDG	BUILDING	LF	LINEAR FEET
CL	CENTER LINE	MIN	MINIMUM
CONC	CONCRETE	MISC	MISCELLANEOUS
CONST	CONSTRUCTION	NTS	NOT TO SCALE
CONTR	CONTRACTOR	OC	ON CENTER
DET	DETAIL	PL	PLATE
DIA	DIAMETER	REQ'D	REQUIRED
DIAG	DIAGONAL	SF	SQUARE FEET
DIM	DIMENSION	SHT	SHEET
DN	DOWN	SIM	SIMILAR
DWG	DRAWING	SPECS	SPECIFICATIONS
EA	EACH	STD	STANDARD
ELEC	ELECTRICAL	STL	STEEL
ELEV	ELEVATOR, ELEVATION	STRUCT	STRUCTURAL
EQ	EQUAL	TC	TOP OF CURB
EQUIP	EQUIPMENT	TERRA	TERRA CONSULTING GROUP, L.T.D.
EXIST	EXISTING	TOP	TOP OF PAVING
FND	FOUNDATION	TOS	TOP OF STEEL
FTG	FOOTING	TOC	TOP OF CONCRETE
GA	GAUGE	TYP	TYPICAL
GALV	GALVANIZED	UNO	UNLESS NOTED OTHERWISE



1 EXISTING ASR SIGN PHOTO  
N.T.S.



2 LESSEE COAX ROUTE ON ICE BRIDGE  
N.T.S.



3 LESSEE COAX ROUTE @ TOP  
N.T.S.



4 EXISTING TOWER PHOTO  
N.T.S.

verizon

10740 NALL AVE, SUITE 400  
OVERLAND PARK, KS 66211

TERRA

CONSULTING GROUP, LTD.

600 BUSSE HIGHWAY  
PARK RIDGE, IL 60068  
PH: 847-698-6400  
FAX: 847-698-6401

REVISIONS		NO.	DESCRIPTION	DATE	BY
	A	1	ISSUED FOR REVIEW	12/17/20	JGL
	B	0	POWER UPGRADE	08/17/21	BE
		0	ISSUED FOR CONSTRUCTION	09/01/21	BE
		1	REMOVAL OF REV B POWER UPGRADE	01/05/22	CEB

LOC# 140684

KCYC  
LEES SUMMIT

900 SW BLUE PKWY  
LEES SUMMIT, MO 64063

DRAWN BY:

JGL

CHECKED BY:

AJB

DATE:

12/17/20

PROJECT #:

54-1356

SHEET TITLE

GENERAL NOTES  
&  
SITE PHOTOS

SHEET NUMBER

N-1

\\p01\Users\Summit\_S\Shared\Mount Mod Drawings\YTHHDD\_55.kwp1-1 By: AFARLEY

## PROJECT NOTES

1. SEE MODIFICATION NOTES
2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITY COMPANIES OR OTHER PUBLIC/GOVERNING AUTHORITIES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
4. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE AS A RESULT OF CONSTRUCTION OF THIS FACILITY AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
6. THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
7. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING THE BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND CONSTRUCTION DRAWINGS.
8. THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THESE DRAWINGS MUST BE VERIFIED. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
9. SINCE THE CELL SITE MAY BE ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE REQUIRED TO BE WORN TO ALERT OF ANY POTENTIALLY DANGEROUS EXPOSURE LEVELS.
10. NO NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS FACILITY AS TO CAUSE A NUISANCE.
11. THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION (NO HANDICAP ACCESS IS REQUIRED).

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## MOUNT MODIFICATION DRAWINGS EXISTING 13.33' PLATFORM MOUNT

**SITE NAME: LEES SUMMIT  
SITE NUMBER: 140684**

**900 SW BLUE PKWY  
LEES SUMMIT, MO 64063  
JACKSON COUNTY**

### PROJECT INFORMATION

#### SITE INFORMATION

LATITUDE: 38.910175° N  
LONGITUDE: 94.391244° W  
JURISDICTION: JACKSON COUNTY

#### APPLICANT/LESSEE

COMPANY: VERIZON WIRELESS

#### CLIENT REPRESENTATIVE

COMPANY: VERIZON WIRELESS  
ADDRESS: 10740 NALL AVE., STE. 400  
CITY, STATE, ZIP: OVERLAND PARK, KS 66211  
CONTACT: SHARRHONDA KELLY  
E-MAIL: SHARRHONDA.KELLY@VERIZONWIRELESS.COM

#### PROJECT MANAGER

COMPANY: MASER CONSULTING  
CONTACT: KRISTINA ROSS  
PHONE: (615) 686-2575  
E-MAIL: KROSS@MASERCONSULTING.COM

### SHEET INDEX

SHEET	DESCRIPTION
T-1	TITLE SHEET
S-1	BILL OF MATERIALS
S-2	MODIFICATION NOTES
S-3	MODIFICATION NOTES
S-4	MODIFICATION DETAILS
S-5	MODIFICATION DETAILS
S-6	MOUNT PHOTOS
	SPECIFICATION SHEETS

### CONTRACTOR PMI REQUIREMENTS

PMI LOCATION	HTTPS://PMI.VZWSMART.COM
SMART TOOL PROJECT #	10023391
VZW LOCATION CODE (PSLC)	140684
FUZE ID	16248298

PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT

### REFERENCED DOCUMENTS

FAILING MOUNT ANALYSIS REPORT	
SMART TOOL PROJECT #	10017276
MASER CONSULTING PROJECT #	20780195A
ANALYSIS DATE	11/13/2020

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#### SITE NAME:

**LEES SUMMIT  
140684**

**900 SW BLUE PKWY  
LEES SUMMIT, MO 64063  
JACKSON COUNTY**



NASHVILLE OFFICE  
5141 Virginia Way  
Suite 420  
Brentwood, TN 37027  
Phone: 615.686.2575  
Fax: 615.323.2456

SHEET TITLE:

**TITLE SHEET**

SHEET NUMBER:

**T-1**

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BILL OF MATERIALS				
VZWSMART KITS				
QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES
1	VZWSMART	VZWSMART-PLK7	MONOPOLE COLLAR MOUNT ASSEMBLY	
1		VZWSMART-PLK1	SUPPORT RAIL KIT	FINAL LENGTH TO BE DETERMINED IN FIELD, CONTRACTOR TO TRIM AS REQUIRED
1		VZWSMART-PLK5	KICKER KIT	FINAL LENGTH TO BE DETERMINED IN FIELD, CONTRACTOR TO TRIM AS REQUIRED
1		VZWSMART-MSK5	CROSSOVER PLATE	
OTHER REQUIRED PARTS				
QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES
1	-	-	36" LONG 2.0 STD PIPE	GALVANIZED
2	-	-	1/2"Ø SQUARE U-BOLT FOR 4" SQUARE TUBE	GALVANIZED

NOTE: ALL MATERIALS REQUIRED FOR THE DESIGNED MODIFICATIONS BUT NOT LISTED IN THIS SHEET ARE ASSUMED TO BE PROVIDED BY THE CONTRACTOR

VZWSMART KITS - APPROVED VENDORS	
COMMSCOPE	
CONTACT	SALVADOR ANGUIANO
PHONE	(817) 304-7492
EMAIL	SALVADOR.ANGUIANO@COMMSCOPE.COM
WEBSITE	WWW.COMMSCOPE.COM
METROSITE FABRICATORS, LLC	
CONTACT	KENT RAMEY
PHONE	(706) 335-7045 (O), (706) 982-9788 (M)
EMAIL	KENT@METROSITELLC.COM
WEBSITE	METROSITEFABRICATORS.COM
PERFECTVISION	
CONTACT	WIRELESS SALES
PHONE	(844) 887-6723
EMAIL	WWW.PERFECT-VISION.COM
WEBSITE	WIRELESSSALES@PERFECT-VISION.COM
SABRE INDUSTRIES, INC.	
CONTACT	ANGIE WELCH
PHONE	(866) 428-6937
EMAIL	AKWELCH@SABREINDUSTRIES.COM
WEBSITE	WWW.SABRESITESOLUTIONS.COM
SITE PRO 1	
CONTACT	PAULA BOSWELL
PHONE	(972) 236-9843
EMAIL	PAULA.BOSWELL@VALMONT.COM
WEBSITE	WWW.SITEPRO1.COM

NOTE: WHEN SPECIFIED, VZWSMART KITS SHALL BE REQUIRED AND WILL BE VERIFIED DURING THE DESKTOP PMI

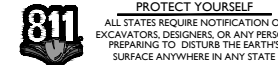
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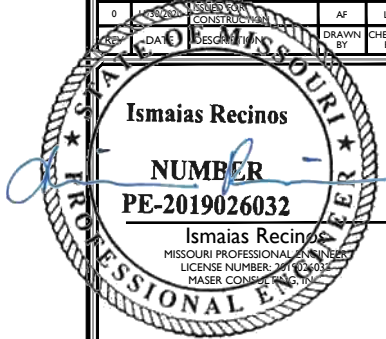
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140684  
  
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JACKSON COUNTY

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Suite 420  
Brentwood, TN 37027  
Phone: 615.686.2575  
Fax: 615.323.2456

SHEET TITLE:  
BILL OF MATERIALS

SHEET NUMBER:  
S-1

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MODIFICATION INSPECTION NOTES

MI CHECKLIST

CONSTRUCTION/ INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY EOR)	REPORT ITEM
PRE-CONSTRUCTION	
X	MI CHECKLIST DRAWING
X	EOR APPROVED SHOP DRAWINGS
NA	FABRICATION INSPECTION
NA	FABRICATOR CERTIFIED WELD INSPECTION
X	MATERIAL TEST REPORT (MTR)
NA	FABRICATOR NDE INSPECTION
X	PACKING SLIPS
ADDITIONAL TESTING AND INSPECTIONS:	
CONSTRUCTION	
X	CONSTRUCTION INSPECTIONS
NA	CONTRACTOR'S CERTIFIED WELD INSPECTION AND NDE REPORTS
X	ON SITE COLD GALVANIZING VERIFICATION
X	GC AS-BUILT DOCUMENTS
ADDITIONAL TESTING AND INSPECTIONS:	
POST-CONSTRUCTION	
X	MI INSPECTOR REDLINE OR RECORD DRAWING(S)
X	VZW PMI DOCUMENTS
X	PHOTOGRAPHS
ADDITIONAL TESTING AND INSPECTIONS:	

NOTE: X DENOTES A DOCUMENT REQUIRED FOR THE MI REPORT  
NA DENOTES A DOCUMENT THAT IS NOT REQUIRED FOR THE MI REPORT

THE MODIFICATION INSPECTION (MI) IS A VISUAL INSPECTION OF MODIFICATIONS AND A REVIEW OF CONSTRUCTION INSPECTIONS AND OTHER REPORTS TO ENSURE THE INSTALLATION WAS CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, NAMELY THE MODIFICATION DRAWINGS, AS DESIGNED BY THE ENGINEER OF RECORD (EOR).

THE MI IS TO CONFIRM INSTALLATION CONFIGURATION AND WORKMANSHIP ONLY AND IS NOT A REVIEW OF THE MODIFICATION DESIGN ITSELF, NOR DOES THE MI INSPECTOR TAKE OWNERSHIP OF THE MODIFICATION DESIGN. OWNERSHIP OF THE STRUCTURAL MODIFICATION DESIGN EFFECTIVENESS AND INTEGRITY RESIDES WITH THE EOR AT ALL TIMES.

TO ENSURE THAT THE REQUIREMENTS OF THE MI ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR (GC) AND THE MI INSPECTOR BEGIN COMMUNICATING AND COORDINATING AS SOON AS A PURCHASE ORDER ( PO) IS RECEIVED. IT IS EXPECTED THAT EACH PARTY WILL BE PROACTIVE IN REACHING OUT TO THE OTHER PARTY.

MI INSPECTOR

THE MI INSPECTOR IS REQUIRED TO CONTACT THE GC AS SOON AS RECEIVING A PO FOR THE MI TO, AT A MINIMUM:

- REVIEW THE REQUIREMENTS OF THE MI CHECKLIST
- WORK WITH THE GC TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE INSPECTIONS

THE MI INSPECTOR IS RESPONSIBLE FOR COLLECTING ALL GC INSPECTION AND TEST REPORTS, REVIEWING THE DOCUMENTS FOR ADHERENCE TO THE CONTRACT DOCUMENTS, CONDUCTING THE IN-FIELD INSPECTIONS, AND SUBMITTING THE MI REPORT TO EOR.

GENERAL CONTRACTOR

THE GC IS REQUIRED TO CONTACT THE MI INSPECTOR AS SOON AS RECEIVING A PO FOR THE MODIFICATION INSTALLATION OR TURNKEY PROJECT TO, AT A MINIMUM:

- REVIEW THE REQUIREMENTS OF THE MI CHECKLIST
- WORK WITH THE MI INSPECTOR TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE MI INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS
- BETTER UNDERSTAND ALL INSPECTION AND TESTING REQUIREMENTS

THE GC SHALL PERFORM AND RECORD THE TEST AND INSPECTION RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE MI CHECKLIST.

RECOMMENDATIONS

THE FOLLOWING RECOMMENDATIONS AND SUGGESTIONS ARE OFFERED TO ENHANCE THE EFFICIENCY AND EFFECTIVENESS OF DELIVERING AN MI REPORT:

- IT IS SUGGESTED THAT THE GC PROVIDE A MINIMUM OF 5 BUSINESS DAYS NOTICE, PREFERABLY 10, TO THE MI INSPECTOR AS TO WHEN THE SITE WILL BE READY FOR THE MI TO BE CONDUCTED.
- THE GC AND MI INSPECTOR COORDINATE CLOSELY THROUGHOUT THE ENTIRE PROJECT.
- WHEN POSSIBLE, IT IS PREFERRED TO HAVE THE GC AND MI INSPECTOR ON-SITE SIMULTANEOUSLY FOR ANY GUY WIRE TENSIONING OR RE-TENSIONING OPERATIONS.
- IT MAY BE BENEFICIAL TO INSTALL ALL MODIFICATIONS PRIOR TO CONDUCTING THE FOUNDATION INSPECTIONS TO ALLOW THE FOUNDATION AND MI INSPECTION(S) TO COMMENCE WITH ONE SITE VISIT.
- WHEN POSSIBLE, IT IS PREFERRED TO HAVE THE GC AND MI INSPECTOR ON-SITE DURING THE MI TO HAVE ANY DEFICIENCIES CORRECTED DURING THE INITIAL MI. THEREFORE, THE GC MAY CHOOSE TO COORDINATE THE MI CAREFULLY TO ENSURE ALL CONSTRUCTION FACILITIES ARE AT THEIR DISPOSAL WHEN THE MI INSPECTOR IS ON SITE.

CORRECTION OF FAILING MI'S

IF THE MODIFICATION INSTALLATION WOULD FAIL THE MI ("FAILED MI"), THE GC SHALL WORK WITH THE OWNER TO COORDINATE A REMEDIATION PLAN:

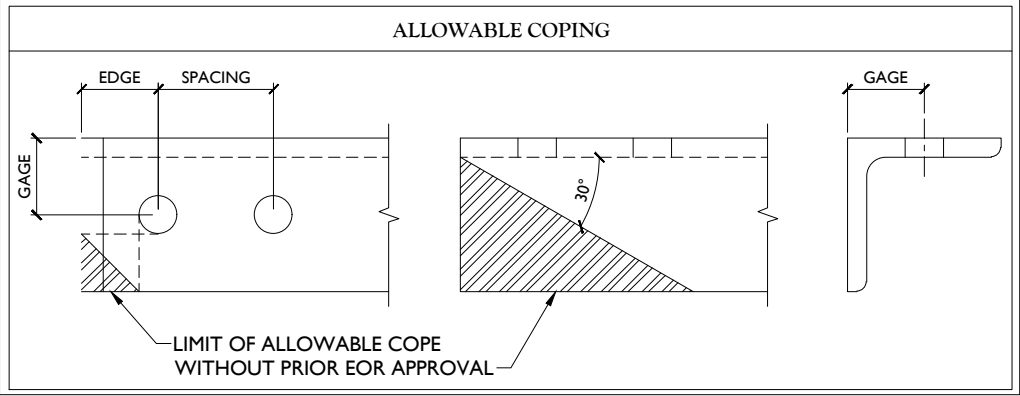
- CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENT MI.

REQUIRED PHOTOS

BETWEEN THE GC AND THE MI INSPECTOR THE FOLLOWING PHOTOGRAPHS, AT A MINIMUM, ARE TO BE TAKEN AND INCLUDED IN THE MI REPORT:

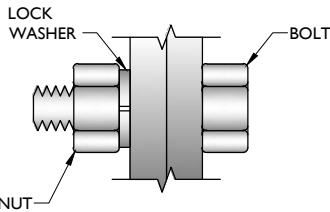
- PRE-CONSTRUCTION GENERAL SITE CONDITION
- PHOTOGRAPHS DURING THE REINFORCEMENT MODIFICATION CONSTRUCTION/ERECTION AND INSPECTION
  - RAW MATERIALS
  - PHOTOS OF ALL CRITICAL DETAILS
  - FOUNDATION MODIFICATIONS
  - WELD PREPARATION
  - BOLT INSTALLATION
  - FINAL INSTALLED CONDITION
  - SURFACE COATING REPAIR
- POST CONSTRUCTION PHOTOGRAPHS
  - FINAL INFIELD CONDITION

PHOTOS OF ELEVATED MODIFICATIONS TAKEN ONLY FROM THE GROUND SHALL BE CONSIDERED INADEQUATE.



BOLT SCHEDULE (IN.)				
BOLT DIAMETER	STANDARD HOLE	SHORT SLOT	MIN. EDGE DISTANCE	SPACING
1/2	9/16	9/16 x 11/16	7/8	1 1/2
5/8	11/16	11/16 x 7/8	1 1/8	1 7/8
3/4	13/16	13/16 x 1	1 1/4	2 1/4
7/8	15/16	15/16 x 1 1/8	1 1/2	2 5/8
1	1 1/16	1 1/16 x 1 5/16	1 3/4	3

WORKABLE GAGES (IN.)	
LEG	GAGE
4	2 1/2
3 1/2	2
3	1 3/4
2 1/2	1 3/8
2	1 1/8



TYP. BOLT ASSEMBLY

NOTES:

- ALL DIMENSIONS REPRESENTED IN THE ABOVE TABLES 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 DISTANCES ARE COMPROMISED.

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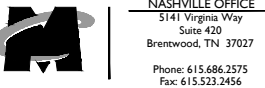



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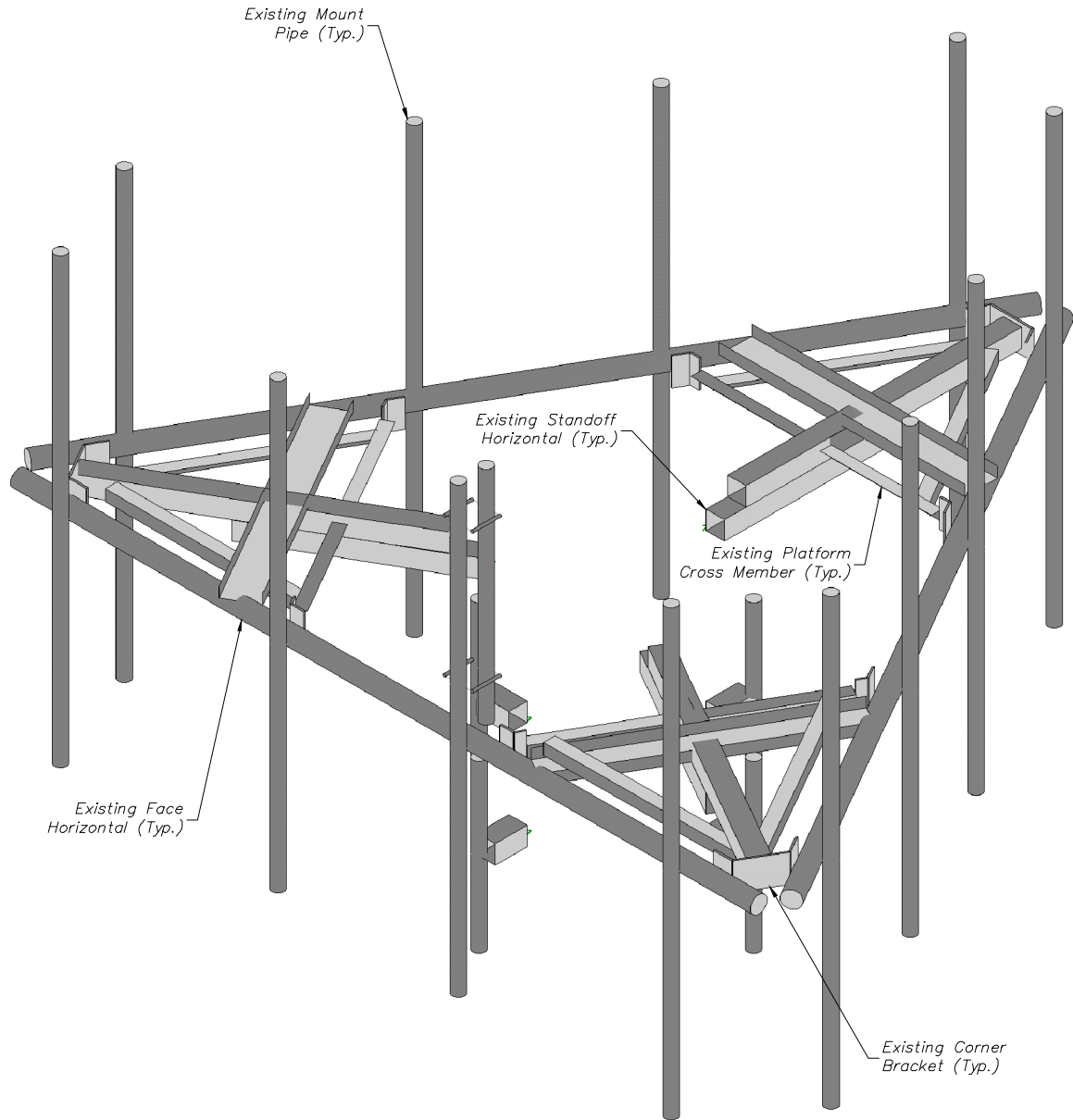
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SHEET TITLE: MODIFICATION NOTES

SHEET NUMBER: S-3

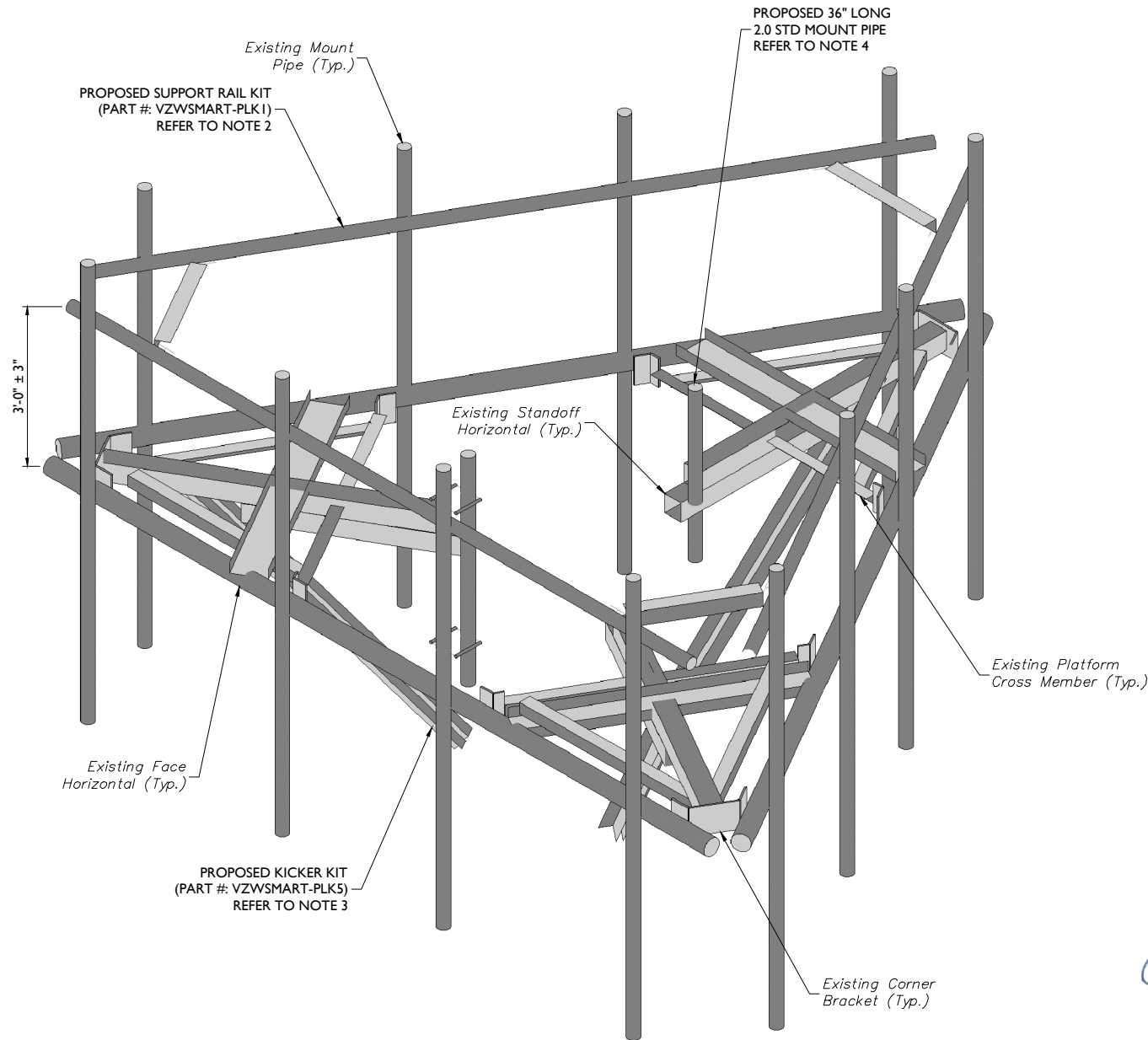
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1 EXISTING PLATFORM ISOMETRIC VIEW  
SCALE : N.T.S.

STRUCTURAL NOTES:

- PER THE MOUNT MAPPING COMPLETED BY HIGHTOWER SOLUTIONS, INC. ON 11/06/2017, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (146'-9") ARE IN GOOD CONDITION. MASER DOES NOT WARRANT THIS INFORMATION.
- INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB, OR ANY SYSTEM INSTALLED ON THE STRUCTURE. TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE EOR (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCES.



2 PROPOSED PLATFORM ISOMETRIC VIEW  
SCALE : N.T.S.

MODIFICATION NOTES:

- MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
- RADIO AND/OR TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.
- CONTRACTOR SHALL REMOVE THE RRH RING MOUNT DIRECTLY BENEATH THE PLATFORM PRIOR TO THE INSTALLATION OF THE KICKER KIT. CONNECT NEW KICKER TO EXISTING MONOPOLE USING PROPOSED MONOPOLE COLLAR MOUNT ASSEMBLY (PART #: VZWSMART-PLK7). CONTRACTOR TO FIELD VERIFY FINAL LENGTH OF MEMBERS AND TRIM AS NECESSARY.
- CONTRACTOR SHALL RELOCATE THE EXISTING RAYCAP FROM THE RING MOUNT TO NEW 36" LONG P2.0 STD PIPE. NEW PIPE SHALL BE CONNECTED TO THE EXISTING STANDOFF MEMBERS WITH NEW VZWSMART-MSKS AND (2) 1/2"Ø SQUARE U-BOLTS.

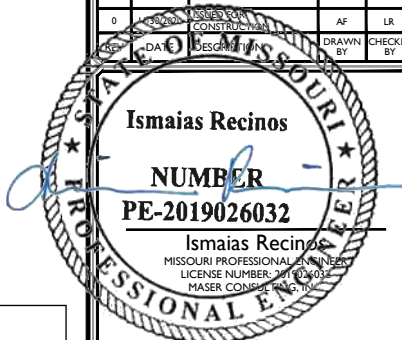
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**Development Services Department**  
**Lee's Summit, Missouri**  
**01/21/2022**

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SCALE:	AS SHOWN	JOB NUMBER:	20780195A
DATE:	11/30/2020	DRAWN BY:	ISMAIAS RECINOS
DESIGNED BY:		CHECKED BY:	



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140684  
900 SW BLUE PKWY  
LEES SUMMIT, MO 64063  
JACKSON COUNTY

**MASER CONSULTING**  
NASHVILLE OFFICE  
5141 Virginia Way  
Suite 420  
Brentwood, TN 37027  
Phone: 615.686.2575  
Fax: 615.323.2456

SHEET TITLE:  
**MODIFICATION DETAILS**

SHEET NUMBER:  
**S-4**



**Development Services Department  
Lee's Summit, Missouri  
01/21/2022**

1. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
2. RADIO AND/OR TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.
3. CONTRACTOR SHALL REMOVE THE RRH RING MOUNT DIRECTLY BENEATH THE PLATFORM PRIOR TO THE INSTALLATION OF THE KICKER KIT. CONNECT NEW KICKER TO EXISTING MONOPOLE USING PROPOSED MONOPOLE COLLAR MOUNT ASSEMBLY (PART #: VZWSMART-PLK7). CONTRACTOR TO FIELD VERIFY FINAL LENGTH OF MEMBERS AND TRIM AS NECESSARY.
4. CONTRACTOR SHALL RELOCATE THE EXISTING RAYCAP FROM THE RING MOUNT TO NEW 36" LONG P2.0 STD PIPE. NEW PIPE SHALL BE CONNECTED TO THE EXISTING STANDOFF MEMBERS WITH NEW VZWSMART-MSK5 AND (2) 1/2"Ø SQUARE U-BOLTS.



MOUNT PHOTO 1



MOUNT PHOTO 2



MOUNT PHOTO 3



MOUNT PHOTO 4

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SCALE:	AS SHOWN	JOB NUMBER:	20780195A																						
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0	1	2	3	4	5	6	7	8	9	10															
DATE: 01/21/2022																									
DRAWN BY: [Signature]																									
CHECKED BY: [Signature]																									

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**SITE NAME:**

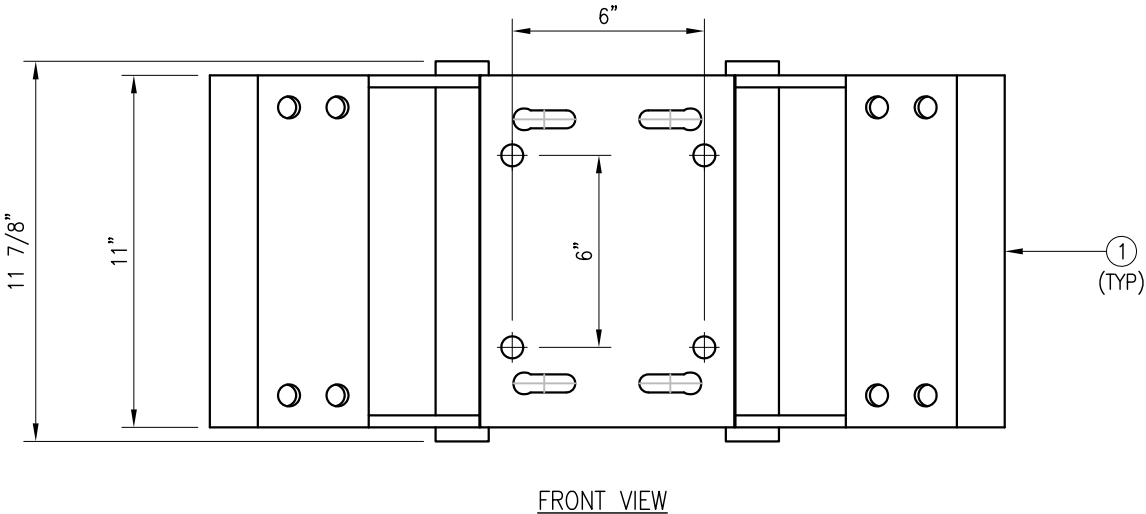
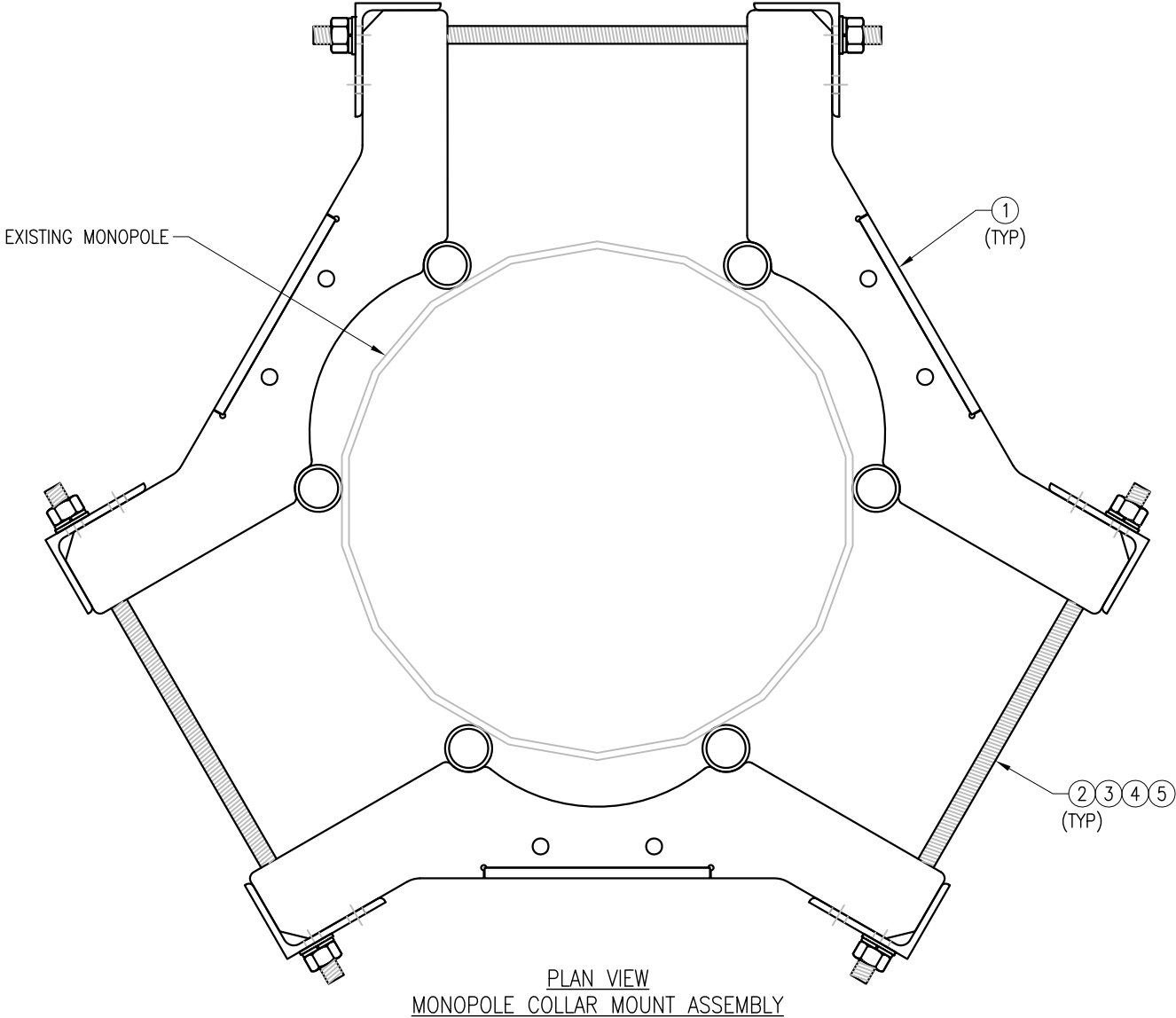
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JACKSON COUNTY**

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5141 Virginia Way  
Suite 420  
Brentwood, TN 37027  
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SHEET TITLE:  
**MOUNT PHOTOS**

SHEET NUMBER:  
**S-6**



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01/21/2022

NOTES:  
1. FIT 12" TO 45" DIA MONOPOLE.  
2. HOT-DIPPED GALVANIZED PER ASTM A123.

VZWSMART-PLK7 (MONOPOLE COLLAR MOUNT ASSEMBLY)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	3	CM-1245	COLLAR MOUNT ASSEMBLY	PLK7-F1	147
2	6	---	THREADED ROD 5/8" X 4'-0" A193-B7	---	
3	12	FW-625	5/8" HDG USS FLAT WASHER	---	1
4	12	LW-625	5/8" HDG LOCK WASHER	---	0
5	12	NUT-625	5/8" HDG HEX NUT	---	1
GALVANIZED WT					150

DRAWN BY: BT      CHECKED BY: HMA/KW

REV.	DESCRIPTION	BY	DATE
△ 1	FIRST ISSUE	BT	05/11/20
△ 2			
△ 3			
△ 4			

SHEET TITLE:  
VZWSMART-PLK7  
MONOPOLE COLLAR  
MOUNT ASSEMBLY

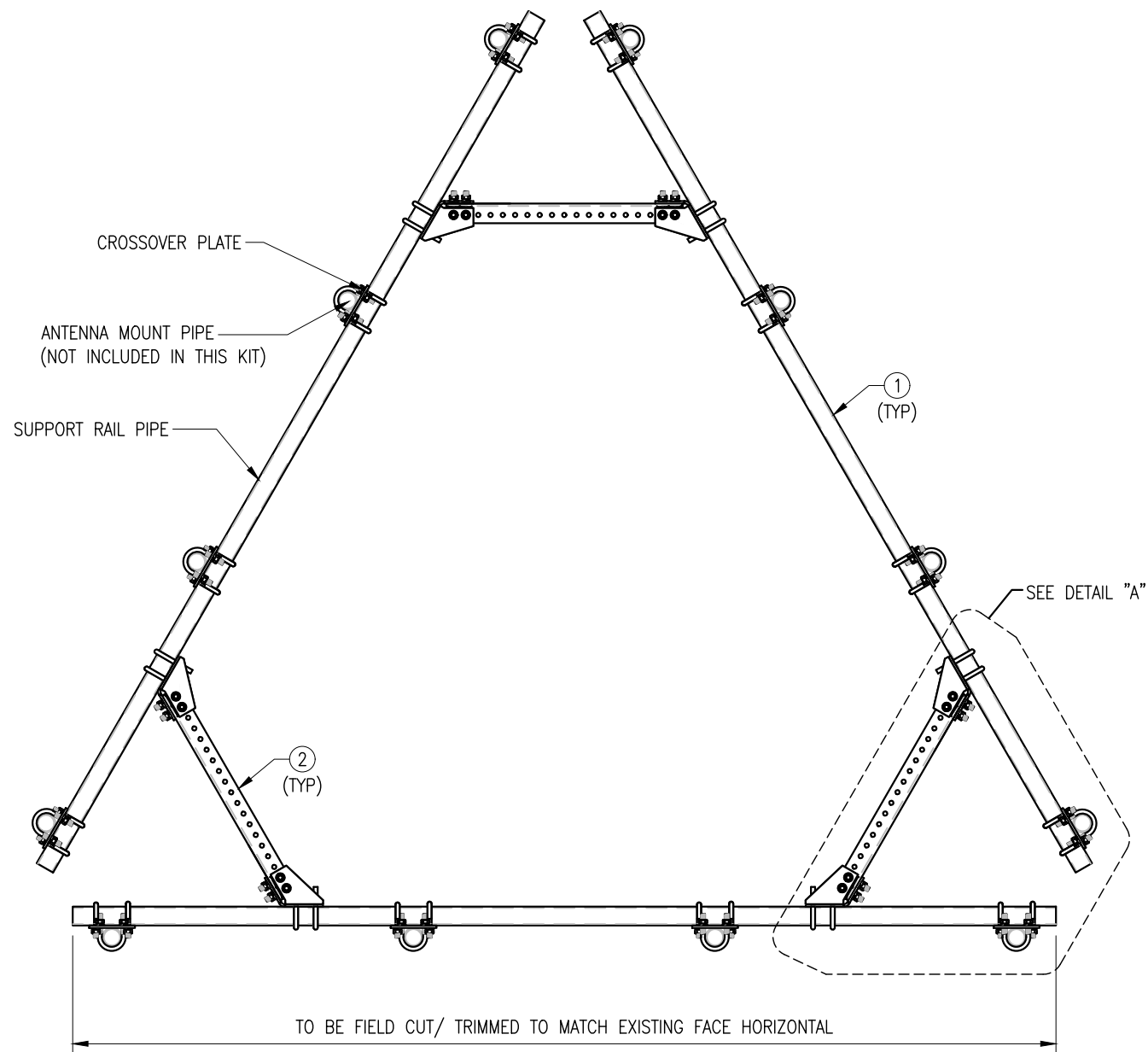
SHEET NUMBER:  
VZWSMART-PLK7

REV #:  
0

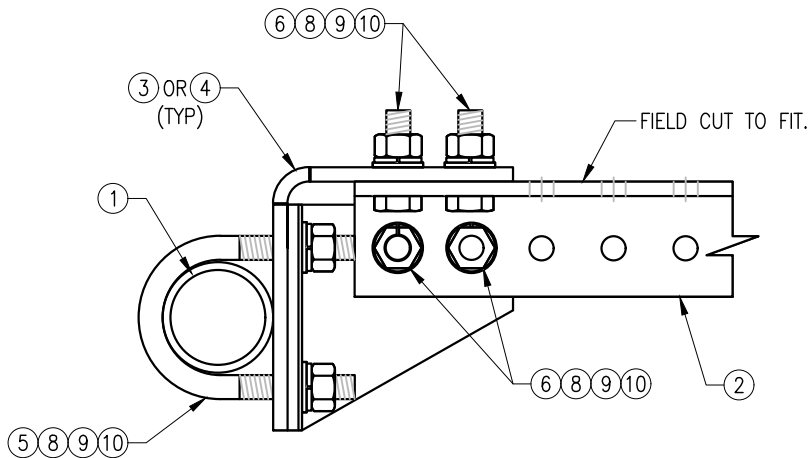
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VzW  
SMART Tool<sup>®</sup>  
Vendor

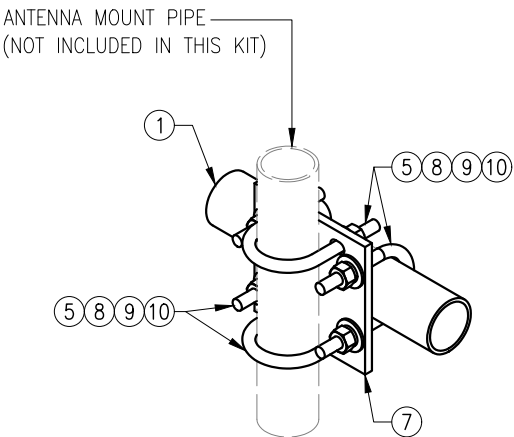
verizon



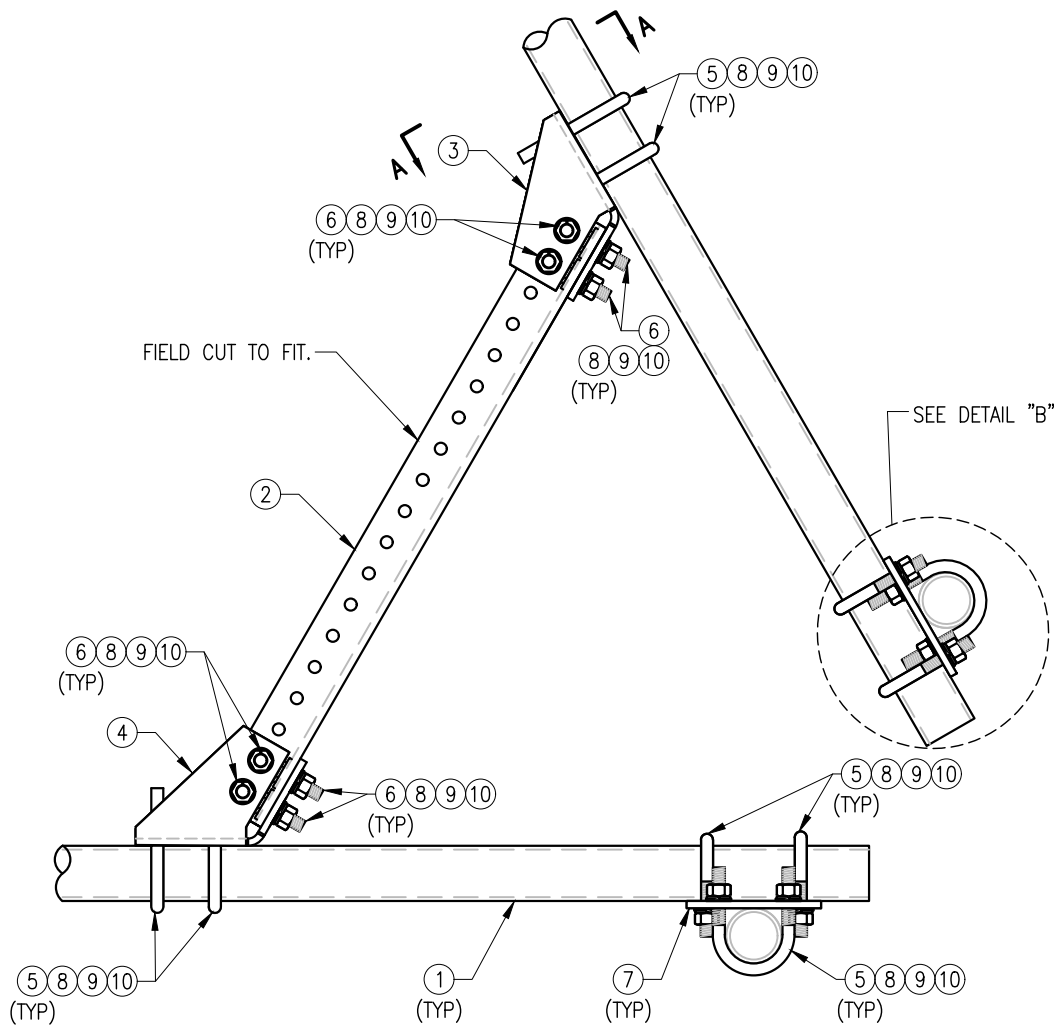
PLAN VIEW



SECTION "A-A"



DETAIL "B"



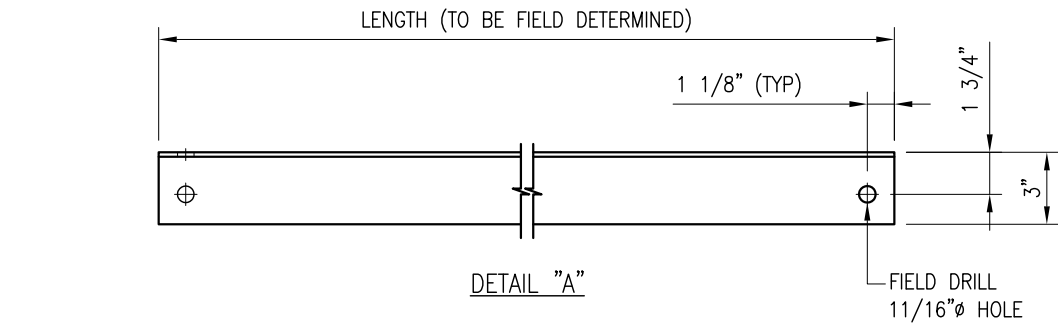
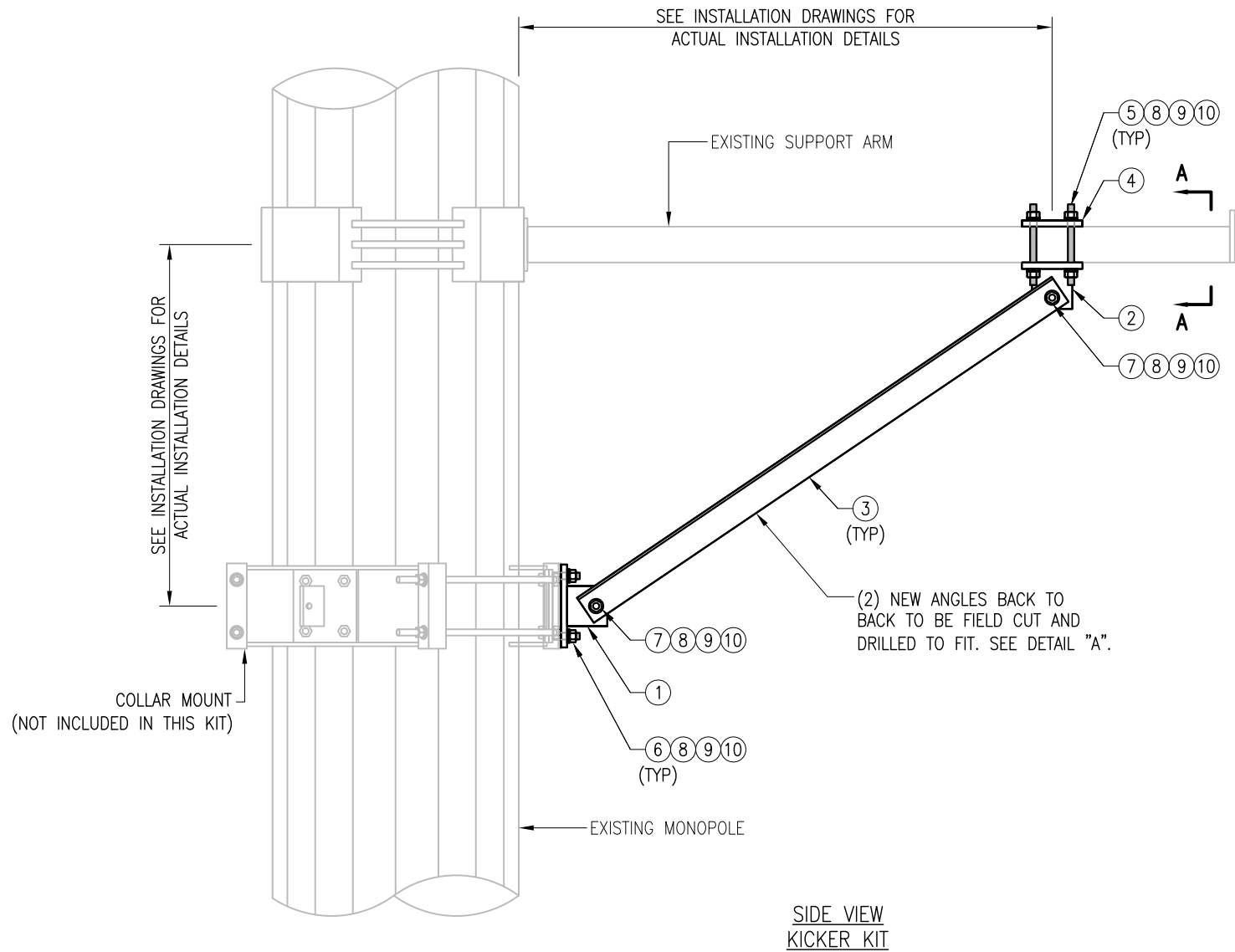
DETAIL "A"

NOTES:  
1. HOT-DIPPED GALVANIZED PER ASTM A123.

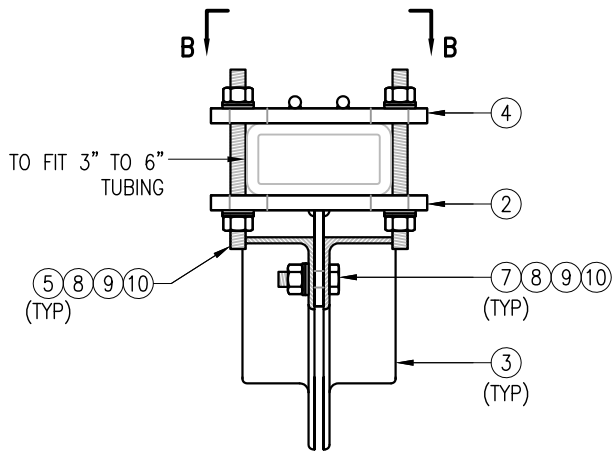
VZW SMART-PLK1 (SUPPORT RAIL KIT)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	3	PST2875-12.5	2.5" PST (2.875" O.D. X 0.203" THK.) X 12'-6" A53 GR-B	PLK1-F1	292
2	3	L33375-3	L 3" X 3" X 3/8" X 3'-0" A36	PLK1-F1	66
3	3	CBP-L	CORNER BENT PLATE BRACKET	PLK1-F2	28
4	3	CBP-R	CORNER BENT PLATE BRACKET	PLK1-F2	28
5	60	MS02-625-300-500	RU-BOLT 5/8" X 3" I.W. X 5" I.L. A36 (OR EQUIV.)	RBC-1	82
6	24	---	BOLT 5/8" X 2" A325	---	9
7	12	PL375-857	PL 3/8" X 8 1/2" X 7'-0" A36	PLK1-F3	77
8	144	FW-625	5/8" HDG USS FLAT WASHER	---	12
9	144	LW-625	5/8" HDG LOCK WASHER	---	3
10	144	NUT-625	5/8" HDG HEX NUT	---	17
GALVANIZED WT					504

DRAWN BY: H.R		CHECKED BY: HMA	
REV.	DESCRIPTION	BY	DATE
△	FIRST ISSUE	H.R	05/08/20
△			
△			
△			
SHEET TITLE:			
VZWSMART-PLK1 SUPPORT RAIL KIT			
SHEET NUMBER:		REV #:	
VZWSMART-PLK1		0	

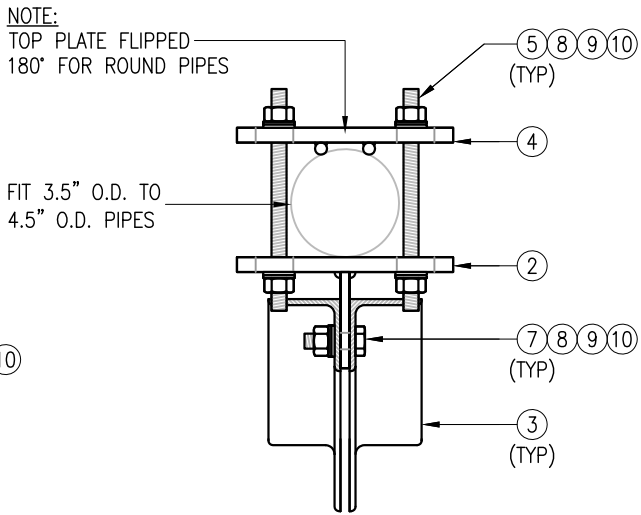
NOTE:  
THE LOCATION OF KICKER AND EXISTING ANTENNA MOUNT SHOWN ON THE DRAWING IS FOR REPRESENTATION PURPOSE ONLY. SEE INSTALLATION DRAWINGS FOR ACTUAL INSTALLATION OF DETAILS.



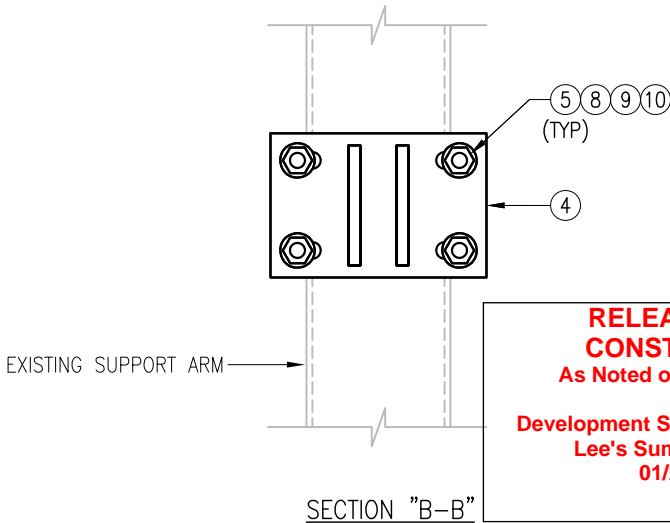
- NOTES:
1. ALL HOLES ARE 11/16" DIA. U.N.O
  2. HOT-DIPPED GALVANIZED PER ASTM A123.
  3. FIT UP TO 6" SQ. TUBING OR 4 1/2" O.D. PIPE



SECTION "A-A"  
RECT. HSS MOUNTING



SECTION "A-A"  
ROUND PIPE MOUNTING



SECTION "B-B"

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VZWSMART-PLK5 (KICKER KIT)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	3	BRKW-XXX	BRACKET WELDMENT A36	PLK5-F3	43.8
2	3	BRKW-XXXX	BRACKET WELDMENT A36	PLK5-F2	35.7
3	6	L331875-8	L 3" X 3" X 3/16" X 8'-0" A36	PLK5-F4	182.9
4	3	PL-KI	PL 5/8" X 6" X 9" A36	PLK5-F1	29.0
5	12	---	THREADED ROD 5/8" DIA. X 1'-0" F1554-36 HDG	---	--
6	6	---	BOLT 5/8" X 2" A325	---	--
7	12	---	BOLT 5/8" X 2 1/2" A325	---	--
8	42	FW-625	5/8" HDG USS FLAT WASHER	---	3
9	42	LW-625	5/8" HDG LOCK WASHER	---	1
10	42	NUT-625	5/8" HDG HEX NUT	---	5
GALVANIZED WT					291

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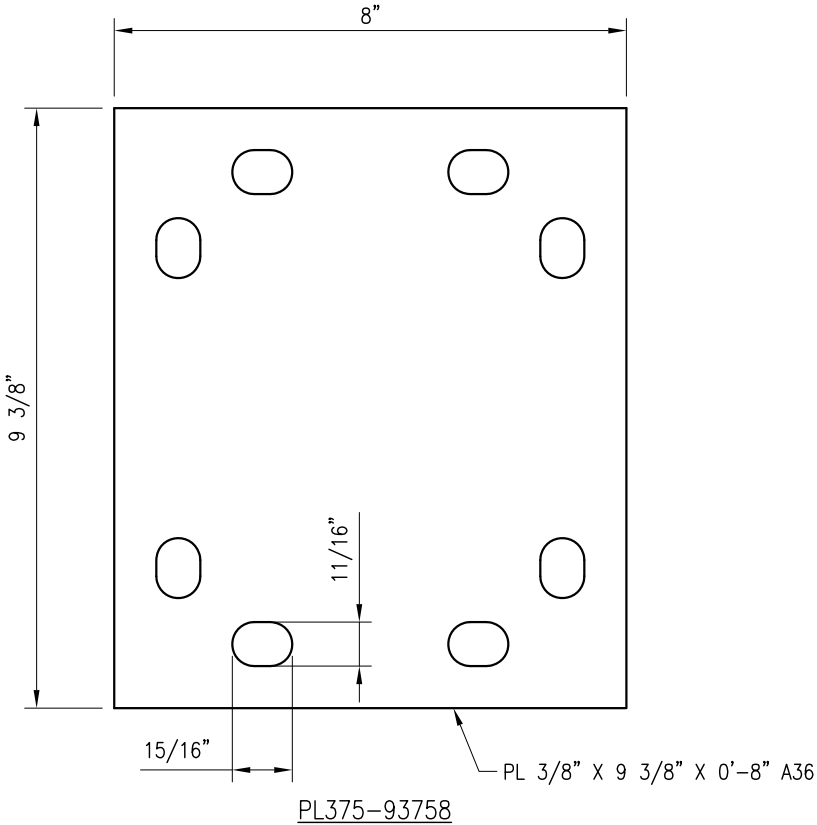
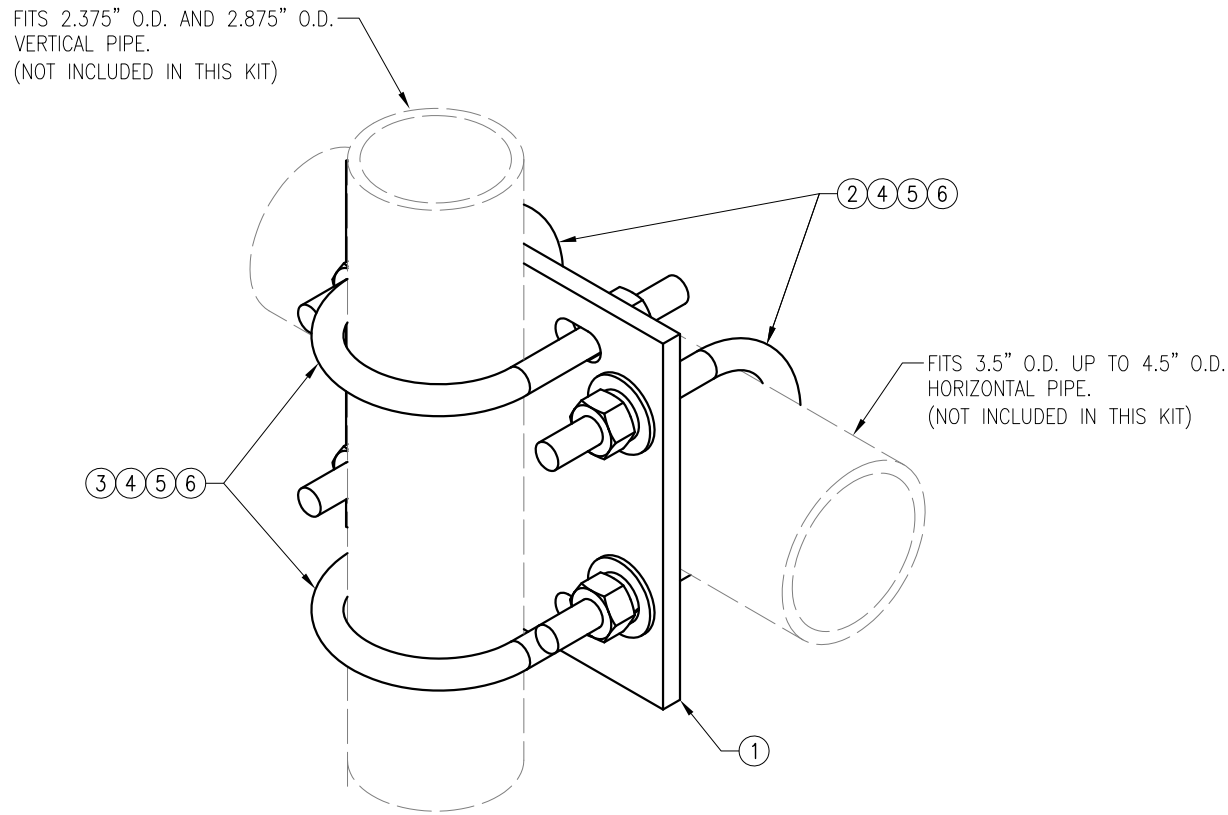
DRAWN BY: MN CHECKED BY: HMA/KW

REV.	DESCRIPTION	BY	DATE
1	FIRST ISSUE	MN	05/08/20
2			
3			
4			

SHEET TITLE:  
  
VZWSMART-PLK5  
KICKER KIT

SHEET NUMBER:  
VZWSMART-PLK5

REV #:  
0



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01/21/2022

NOTES:  
1. HOT-DIPPED GALVANIZED PER ASTM A123.

VZWSMART-MSK5 (CROSSOVER PLATE)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	PL375-93758	PL 3/8" X 9 3/8" X 0'-8" A36	MSK5-F1	8
2	2	MS02-625-4625-700	RU-BOLT 5/8" X 4 5/8" I.W. X 7" I.L. A36 (OR EQUIV.)	RBC-1	3
3	2	MS02-625-300-500	RU-BOLT 5/8" X 3" I.W. X 5" I.L. A36 (OR EQUIV.)	RBC-1	3
4	8	FW-625	5/8" HDG USS FLAT WASHER	---	1
5	8	LW-625	5/8" HDG LOCK WASHER	---	0
6	8	NUT-625	5/8" HDG HEX NUT	---	1
GALVANIZED WT					16

DRAWN BY: H.R		CHECKED BY: HMA	
REV.	DESCRIPTION	BY	DATE
1	FIRST ISSUE	H.R	05/08/20
SHEET TITLE:			
VZWSMART-MSK5 CROSSOVER PLATE			
SHEET NUMBER:		REV #:	
VZWSMART-MSK5		0	

## Mount Desktop – Post Modification Inspection (PMI) Report Requirements

### Documents & Photos Required from Contractor – Mount Modification

---

**Purpose** – to provide Maser Consulting the proper documentation in order to complete the required Mount Desktop review of the Post Modification Inspection Report.

- Contractor is responsible for making certain the photos provided as noted below provide confirmation that the modification was completed in accordance with the modification drawings.
- Contractor shall relay any data that can impact the performance of the mount or the mount modification, this includes safety issues.

#### **Base Requirements:**

- Any special photos outside of the standard requirements will be indicated on the drawings
- Provide “as built drawings” showing contractor’s name, preparer’s signature, and date. Any deviations from the drawings (proposed modification) must be shown.
- Notation that all hardware was properly installed, and the existing hardware was inspected for any issues.
- Verification that loading is as communicated in the modification drawings. NOTE If loading is different than what is conveyed in the modification drawing contact Maser Consulting immediately.
- Each photo should be time and date stamped
- Photos should be high resolution and submitted in a Zip File and should be organized in the file structure as depicted in Schedule A attached.
- Contractor shall ensure that the safety climb wire rope is supported and not adversely impacted by the install of the modification components. This may involve the install of wire rope guides, or other items to protect the wire rope.
- The photos in the file structure should be uploaded to <https://pmi.vzwsmart.com> as depicted on the drawings

#### **Photo Requirements:**

- Base and “During Installation Photos”
  - Base pictures include
    - Photo of Gate Signs showing the tower owner, site name, and number
    - Photo of carrier shelter showing the carrier site name and number if available
    - Photos of the galvanizing compound and/or paint used (if applicable), clearly showing the label and name
  - “During Installation Photos if provided - must be placed only in this folder
- Photos taken at ground level
  - Overall tower structure before and after installation of the modifications
  - Photos of the appropriate mount before and after installation of the modifications; if the mounts are at different rad elevations, pictures must be provided for all elevations that the modifications were installed

- Photos taken at Mount Elevation

- Photos showing each individual sector before and also after installation of modifications. Each entire sector must be in one photo to show in the inter-connection of members.
  - These photos should also certify that the placement and geometry of the equipment on the mount is as depicted on the sketch and table in the mount analysis
- Close-up photos of each installed modification per the modification drawings; pictures should also include connection hardware (U-bolts, bolts, nuts, all-threaded rods, etc.)
- Photos showing the measurements of the installed modification member sizes (i.e. lengths, widths, depths, diameters, thicknesses)
- Photos showing the elevation or distances of the installed modifications from the appropriate reference locations shown in the modification drawings
- Photos showing the installed modifications onto the tower with tape drop measurements (if applicable) (i.e. ring/collar mounts, tie-backs, V-bracing kits, etc.); if the existing mount elevation needs to be changed according to the modification drawings, a tape drop measurement shall be provided before the elevation change
- Photos showing the safety climb wire rope above and below the mount prior to modification.
- Photos showing the climbing facility and safety climb if present.

**Material Certification:**

- Materials utilized must be as per specification on the drawings or the equivalent as validated by Maser Consulting.
  - If the drawings are as specified on the drawings
    - The contractor should provide the packing list or the materials utilized to perform the mount modification
  - If an equivalent is utilized
    - It is required that the Maser Consulting certification of such is included in the contractor submission package. There may be an additional charge for this certification if the equivalent submission doesn't meet specifications as prescribed in the drawings.
- The contractor must certify that the materials meet these specifications by one of these methods.

☐ The Material utilized was as specified on the Maser Consulting Mount Modification Drawings and included in the Material certification folder is a packing list or invoice for these materials

☐ The material utilized was an "equivalent" and included as part of the contractor submission is the Maser Consulting certification, invoices, or specifications validating accepted status

Certifying Individual: Company \_\_\_\_\_

Name \_\_\_\_\_

Signature \_\_\_\_\_

**Antenna & equipment placement and Geometry Confirmation:**

- The contractor must certify that the antenna & equipment placement and geometry is in accordance with the antenna placement diagrams as included in this mount analysis.
- ☐ The contractor certifies that the photos support and the equipment on the mount is as depicted on the antenna placement diagrams as included in this mount analysis.
- ☐ The contractor notes that the equipment on the mount is not in accordance with the antenna placement diagrams and has accordingly marked up the diagrams or provided a diagram outlining the differences.

Certifying Individual:      Company \_\_\_\_\_

   Name \_\_\_\_\_

   Signature \_\_\_\_\_

**Special Instructions / Validation as required from the MA or Mod Drawings:**

**Issue:**

Contractor shall reroute the existing safety climb wire rope between the threaded rods of the existing and proposed collar mounts and the monopole tower. Contractor shall install safety climb wire rope guides to further prevent contact with the collar mount threaded rods.

Contractor shall remove the existing RRH ring mount beneath the existing platform and relocate the existing surge suppressor onto a new 3' long P2.0 STD pipe, connected to the standoff horizontal with new VZWSmart-MSK5 crossover plate and (2) 1/2" dia. square U-bolts.

**Response:**

**Schedule A – Photo & Document File Structure**



VzW Site Number / Name



Base & “During Installation” Photos



Pre-Installation Photos



Alpha



Beta



Gamma



Ground Level



Tape Drop



Post-Installation Photos



Alpha



Beta



Gamma



Ground Level



Tape Drop



Photos of climbing facility and safety climb – If Present



Certifications – Submission of this document including certifications



Specific Required Additional Photos