



AMERICAN TOWER®

ATC SITE NAME: UNITY VILLAGE MO 2

ATC SITE NUMBER: 306035 FUZE PROJECT ID: 16248309

CARRIER SITE NAME: KCY SUMMIT WOODS

CARRIER SITE NUMBER:300446

SITE ADDRESS: 2150 NW LOWENSTEIN

LEES SUMMIT, MO 64081-1905



LOCATION MAP

VERIZON ANTENNA AMENDMENT DRAWINGS

COMPLIANCE CODE	PROJECT SUMMARY	PROJECT DESCRIPTION	SHEET INDEX				П
ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE	SITE ADDRESS:	THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW:	SHEET DESCRIPTION:	REV:	DATE:	BY:	П
FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS	2150 NW LOWENSTEIN	TOWER WORK: REMOVE (6) PANEL(S), (3) RRU(S), (2) OVP(S) AND (2) 1-1/4" HYBRID	G-001 TITLE SHEET	0	9/16/2021	HEG	
TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO	ONSTRUED TO PERMIT WORK NOT CONFORMING TO	CABLE(S)	G-002 GENERAL NOTES	0	9/16/2021	HEG	П
THESE CODES. 1. 2012 INTERNATIONAL BUILDING CODE (2012 IBC AS	COUNTY: JACKSON	INSTALL (9) PANEL(S), (6) RRU(S), (1) OVP AND (1) 12X24 1-5/8" HYBRID CABLE	C-001 OVERALL SITE PLAN	0	9/16/2021	HEG	П
1. 2012 INTERNATIONAL BUILDING CODE (2012 IBC AS AMENDED)	GEOGRAPHIC COORDINATES:	7.7.57.15 07.1522					П
2. NATIONAL ELECTRIC CODE (NEC)	LATITUDE: 38.93361269	EXISTING (6) TMA(S), (3) PANEL(S) AND (2) 1 1/4" HYBRID CABLE(S) TO REMAIN	C-101 DETAILED SITE PLAN	0	9/16/2021	HEG	П
3. LOCAL BUILDING CODE 4. CITY/COUNTY ORDINANCES	LONGITUDE: -94.41749129		C-201 TOWER ELEVATION	0	9/16/2021	HEG	П
4. CITT/COUNTY ORDINANCES	GROUND ELEVATION: 983' AMSL	PROJECT NOTES	C-401 RF SCHEDULE AND ANTENNA INSTALLATION	0	9/16/2021	HEG	П
			C-402 PLUMBING DIAGRAM	0	9/16/2021	HEG	П
		THE FACILITY IS UNMANNED. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. 4. NO SANITARY SEWER, POTABLE WATER OR TRASH	C-501 MOUNT DETAILS	0	9/16/2021	HEG	П
	PROJECT TEAM		C-502 EQUIPMENT DETAILS	0	9/16/2021	HEG	C(SI
			E-502 GROUND DETAILS	0	9/16/2021	HEG	M
	TOWER OWNER: APPLICANT:	DISPOSAL IS REQUIRED. 5. HANDICAP ACCESS IS NOT REQUIRED.					П
	AMERICAN TOWER VERIZON WIRELESS	THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO					П
	10 PRESIDENTIAL WAY 20 ALEXANDER DR, 2ND FLOOR	EXPEDITED REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT					П
UTILITY COMPANIES	WOBURN, MA 01801 WALLINGFORD, CT 06492 ENGINEER:	INVOLVES THE COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR § 1.61000 (B)(7).					
POWER COMPANY: KANSAS CITY POWER & LIGHT							
PHONE: (888) 471-5275	3500 REGENCY PKWY STE 100						H
TELEPHONE COMPANY: AT&T PHONE: (866) 847-5500	CARY, NC 27518	PROJECT LOCATION DIRECTIONS					
	PROPERTY OWNER:						
811	AMERICAN TOWER CORPORATIONS 2150 NW LOWENSTEIN - LEES	FROM DOWNTOWN KANSAS CITY, MO TAKE I-70 EAST TO I-435 SOUTH, TAKE RAMP ONTO I-470 [SR-291], AT EXIT 7A, TURN RIGHT ONTO RAMP, BEAR RIGHT (SOUTH) ONTO US-50 [SR-350] 0.4 MI,					
	SUMMIT - MO - 64081	KEEP RIGHT ONTO RAMP, TURN RIGHT (WEST) ONTO NW CHIPMAN RD 0.9 MI, TURN RIGHT (NORTH) ONTO NW BLACKTWIG LN 0.3 MI, TURN LEFT (NORTH-WEST) ONTO NW LOWENSTEIN DR 98 YDS,					
Know what's below. Call before you dig.		TURN RIGHT (NORTH-EAST) ONTO ACCESS ROAD FOLLOW ALL THE WAY BACK TO THE SITE.					
Sell Sololo you dig.		ARRIVED AT 2150 NW LOWENSTEIN LEES SUMMIT, MO 64081-1905					I





Wixom, Michigan 48393 PHONE: (248) 705-9212

REV	DESCRIPTION	BY	DATE
A	PRELIM	HEG	08/13/21
\wedge	FINAL CD	HEG	09/16/21
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ATC SITE NUMBER:

306035

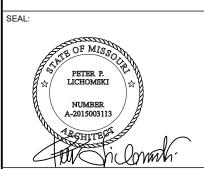
ATC SITE NAME:

UNITY VILLAGE MO 2

VERIZON SITE NAME:

KCY SUMMIT WOODS

SITE ADDRESS: 2150 NW LOWENSTEIN LEES SUMMIT, MO 64081-1905



verizon[/]

DATE DRAWN:	09/16/2021
ATC JOB NO:	13667510
CUSTOMER ID:	KCY SUMMIT WOODS
CUSTOMER #:	300446

TITLE SHEET

REVISION: G-001

GENERAL CONSTRUCTION NOTES:

- OWNER FURNISHED MATERIALS, VERIZON "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL
- A. BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/CO-LOCATE ONLY)
- AC/TELCO INTERFACE BOX (PPC)
- ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILD/CO-LOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)
- D. TOWERS, MONOPOLES
- TOWER LIGHTING
- GENERATORS & LIQUID PROPANE TANK
- G. ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING
- ANTENNAS (INSTALLED BY OTHERS)
- TRANSMISSION LINE
- TRANSMISSION LINE JUMPERS
- TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS
- TRANSMISSION LINE GROUND KITS
- HANGERS
- HOISTING GRIPS
- O. BTS EQUIPMENT
- THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL OTHER MATERIALS FOR THE COMPLETE INSTALLATION OF THE SITE INCLUDING, BUT NOT LIMITED TO, SUCH MATERIALS AS FENCING, STRUCTURAL STEEL SUPPORTING SUB-FRAME FOR PLATFORM, ROOFING LABOR AND MATERIALS GROUNDING RINGS GROUNDING WIRES COPPER-CLAD OR XIT CHEMICAL GROUND ROD(S), BUSS BARS, TRANSFORMERS AND DISCONNECT SWITCHES WHERE APPLICABLE, TEMPORARY ELECTRICAL POWER, CONDUIT, LANDSCAPING COMPOUND STONE, CRANES, CORE DRILLING, SLEEPERS AND RUBBER MATTING, REBAR, CONCRETE CAISSONS, PADS AND/OR AUGER MOUNTS, MISCELLANEOUS FASTENERS, CABLE TRAYS, NON-STANDARD ANTENNA FRAMES AND ALL OTHER MATERIAL AND LABOR REQUIRED TO COMPLETE THE JOB ACCORDING TO THE DRAWINGS AND SPECIFICATIONS. IT IS THE POSITION OF VERIZON TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED
- ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSI/EIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION
- CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
- ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
- DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS
- DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR
- CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING,
- CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES. GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC, BEFORE COMMENCING WORK,
- INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE VERIZON REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION, ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE VERIZON REP PRIOR TO PROCEEDING.
- EACH CONTRACTOR SHALL COOPERATE WITH THE VERIZON REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
- CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION
- ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING 15. INSTALLATION LISING A SILICONE SEALANT
- WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET. CONTRACTOR SHALL NOTIFY THE VERIZON REP AND ENGINEER OF RECORD
- CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT
- CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF
- CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
- CONTRACTOR SHALL FURNISH VERIZON AND AMERICAN TOWER CORPORATION (ATC) /ITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WOF
- PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH VERIZON REP 2. TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL

- 22. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH VERIZON REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY VERIZON MUST BE OBTAINED, AND PAID FOR, BY THE
- 23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH VERIZON SPECIFICATIONS AND REQUIREMENTS.
- 24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO VERIZON FOR REVIEW AND
- ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO VERIZON SPECIFICATIONS, AND AS SHOWN IN THESE PLANS
- 26. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- CONTRACTOR SHALL NOTIFY VERIZON REP A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND
- CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.
- THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE ALL EXISTING FACILITIES AND SUCH OF HIS NEW WORK LIABLE TO INJURY DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION.
- ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE VERIZON REP. ANY WORK FOUND BY THE VERIZON REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS
- 31. IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR
 MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS
- VERIZON FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE VERIZON WAREHOUSE NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNCRATE, PROTE AND INSTALLED BY THE CONTRACTOR WITH ALL APPURTENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP.
- VERIZON OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY 33. EQUIPMENT OR MATERIALS WHICH, IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, EITHER BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO VERIZON OR THEIR ARCHITECT/ENGINEER

SPECIAL CONSTRUCTION ANTENNA INSTALLATION NOTES:

- WORK INCLUDED:
 - ANTENNA AND COAXIAL CABLES ARE FURNISHED BY VERIZON UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF
 - B. INSTALL ANTENNA AS INDICATE ON DRAWINGS AND VERIZON SPECIFICATIONS
 - C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS
 - D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE AND PROVIDE PRINTOUT OF THAT TEST.
 - E. CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SWEEP TESTS USING ANRITZU-PACKARD 8713B RF SCALAR NETWORK ANALYZER. SUBMIT FREQUENCY DOMAIN REFLECTOMETER(FDR) TESTS RESULTS TO THE PROJECT MANAGER. SWEEP TESTS SHALL BE AS PER ATTACHED RFS "MINIMUM FIELD TESTING RECOMMENDED FOR ANTENNA AND HELIAX COAXIAL CABLE SYSTEMS" DATED 10/5/93. TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING SERVICE AND BE BOUND AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.
 - INSTALL COAXIAL CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.
 - G. ANTENNA AND COAXIAL CABLE GROUNDING:
- ALL EXTERIOR #6 GREED GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR
- 3. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF

COAXIAL CABLE (NOT WITHIN BENDS)

RELEASED FOR CONSTRUCTION As Noted on Plans Review

Development Services Department Lee's Summit, Missouri 12/27/2021

ALL DISCREPANCIES FROM WHAT IS SHOWN ON THESE

CONSTRUCTION DRAWINGS SHALL BE COMMUNICATED TO ATC

ENGINEERING IMMEDIATELY FOR CORRECTION OR RE-DESIGN.

FAILURE TO COMMUNICATE DIRECTLY WITH ATC ENGINEERING OR

ANY CHANGES FROM THE DESIGN CONDUCTED WITHOUT PRIOR

APPROVAL FROM ATC ENGINEERING SHALL BE THE SOLE

RESPONSIBILITY OF THE GENERAL CONTRACTOR

AMERICAN TOWER



49030 Pontiac Trail. Suite Wixom, Michigan 48393 PHONE: (248) 705-9212

REV.	DESCRIPTION	BY	DATE
<u> </u>	PRELIM	HEG	08/13/21
<u> </u>	FINAL CD	HEG	09/16/21
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ATC SITE NUMBER:

306035

ATC SITE NAME

UNITY VILLAGE MO 2 VERIZON SITE NAME:

KCY SUMMIT WOODS SITE ADDRESS:

2150 NW LOWENSTEIN LEES SUMMIT MO 64081-1905

SEAL



CONSISTENT WITH APPLICABLE LICENSING LAWS THIS SEAL CERTIFIES THAT THE ARCHITECTURAL DESIGN WOR WAS PREPARED FITHER PERSONALLY BY ME OR UNDER MY IMMEDIATE AND DIRECT SUPERVISION AND CONTRO



DATE DRAWN: 09/16/2021 ATC JOB NO: 13667510 CUSTOMER ID: | KCY SUMMIT WOODS CUSTOMER #: | 300446

GENERAL NOTES

SHEET NUMBER:

REVISION

G-002



- BOUNDARY LINES OBTAINED FROM SUMNER COUNTY ONLINE GIS.
- 2. ZONING INFORMATION OBTAINED FROM ZONING ORDINANCE.

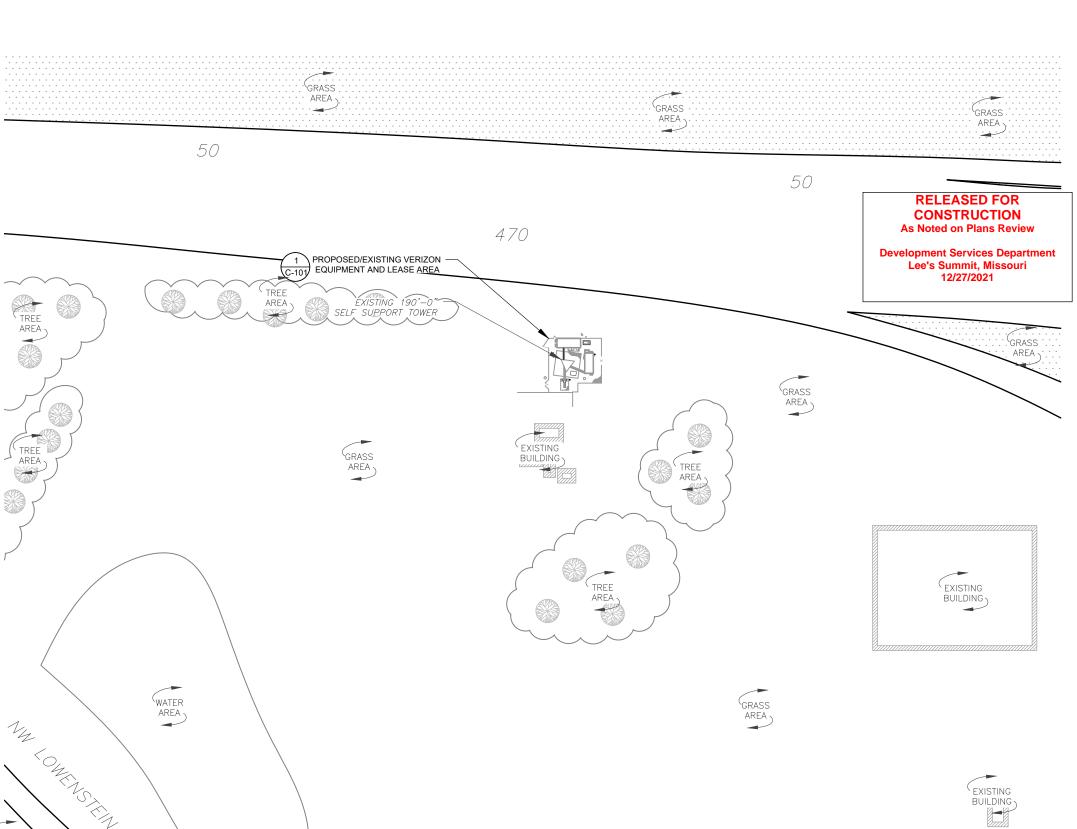
LEGEND

EXISTING	PROPERTY LINE
EXISTING	ADJACENT PROPERTY LINE
EXISTING	LEASE AREA
EXISTING	EASEMENT
EXISTING	WOOD FENCE
EXISTING	WIRE FENCE
EXISTING	METAL FENCE
EXISTING	GUARD RAIL
EXISTING	CHAINLINK FENCE
EXISTING	ROAD (DIRT)
EXISTING	ROAD (STONE)
EXISTING	ROAD (PAVED)

EXISTING BUILDING

NOTE: EXISTING VEGETATION, COUNT, SPACING AND SPECIES SHOWN

IS AN APPROXIMATION AND HAS NOT BEEN FIELD VERIFIED.













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VERIZON SITE NAME:

KCY SUMMIT WOODS

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DATE DRAWN:	09/16/2021
ATC JOB NO:	13667510
CUSTOMER ID:	KCY SUMMIT WOODS
CUSTOMER #:	300446

OVERALL SITE PLAN

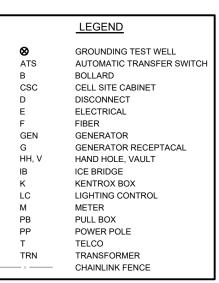
SHEET NUMBER:

REVISION:

C-001

SITE PLAN NOTES:

- 1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
- ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL
 PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW
 PORTS OR ANY OTHER EQUIPMENT. CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.
- 3. THIS PROJECT INCLUDES NO INSTALL OR MODIFICATION AT GRADE.

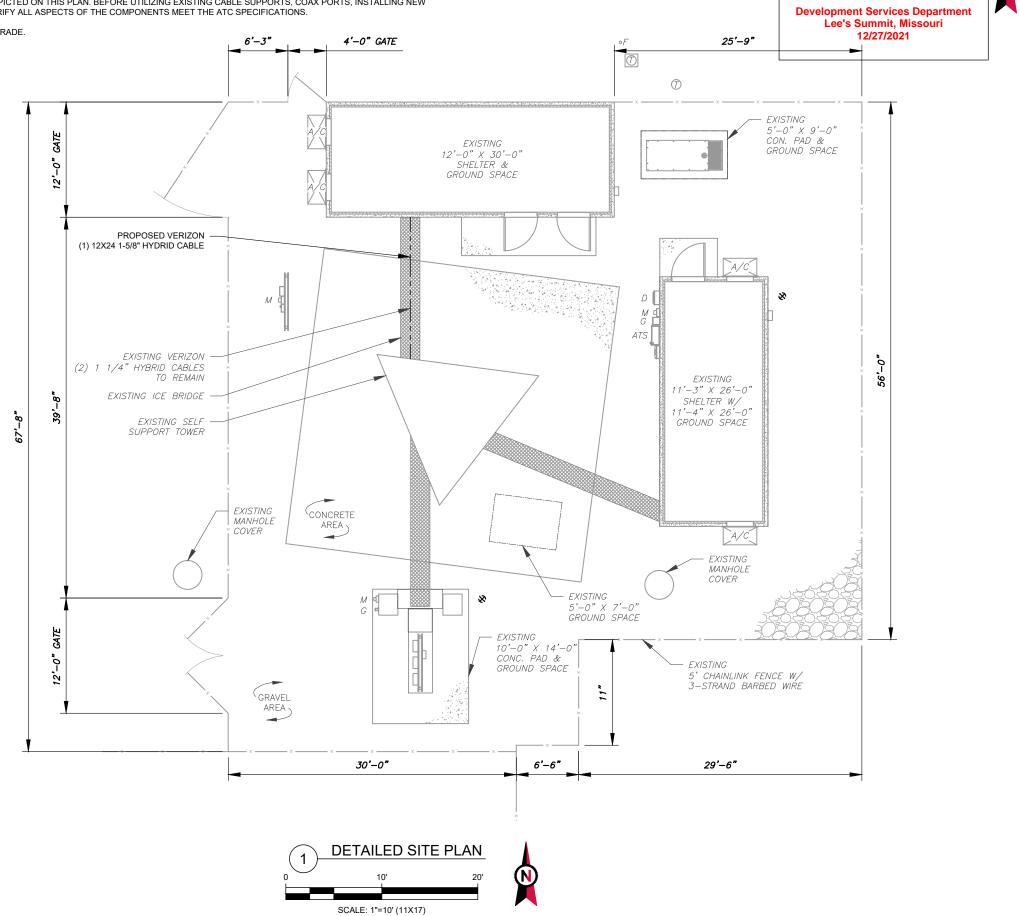


CABLE LENGTH	
RAD HEIGHT (FROM SHEET Q-201)	190'-0"
DISTANCE TO TOWER (FROM DIM)	15'-0"
FINAL LENGTH (+15% SAFETY FACTOR)	205'-0"

PROPOSED CABLE LENGTH:

ESTIMATED LENGTH OF PROPOSED CABLE IS 77'-2". ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 15% (OF THE TWO PREVIOUS VALUES), CDS DEFER TO GREATEST CABLE LENGTH.

2. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. WHERE POSSIBLE UTILIZE EXISTING CABLE SUPPORT STRUCTURES AS PROVIDED FOR CARRIER TO ADEQUATELY SECURE CABLES, USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER. OTHERWISE, ATTACH CABLES TO HORIZONTAL OR DIAGONAL TOWER MEMBERS USING PROPOSED STAINLESS STEEL ADAPTERS (DO NOT ATTACH TO TOWER LEG).





RELEASED FOR

CONSTRUCTION

As Noted on Plans Review



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UNITY VILLAGE MO 2

VERIZON SITE NAME:

KCY SUMMIT WOODS

SITE ADDRESS: 2150 NW LOWENSTEIN LEES SUMMIT, MO 64081-1905

SEAL:

PETER P.
LICHOMSKI

NUMBER
A-2015003113

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DATE DRAWN:	09/16/2021
ATC JOB NO:	13667510
CUSTOMER ID:	KCY SUMMIT WOODS
CUSTOMER #:	300446

DETAILED SITE PLAN

SHEET NUMBER:

C-101

REVISION

RELEASED FOR CONSTRUCTION As Noted on Plans Review

Development Services Department Lee's Summit, Missouri 12/27/2021

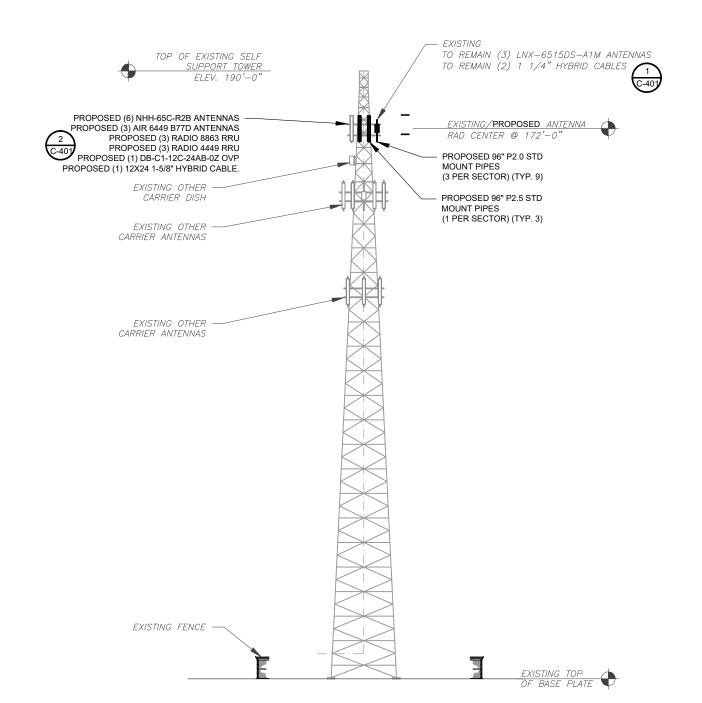
NOTES: THIS DRAWING IS FOR EXHIBIT AND LAYOUT PURPOSES ONLY.

PLEASE REFER TO STRUCTURAL DOCUMENTS (PREPARED BY OTHERS) FOR PROJECT STRUCTURAL CALCULATION AND RESULTS.

NO WORK IS TO BE DONE WITHOUT AN APPROVED STRUCTURAL ANALYSIS PROVIDED BY OTHERS.

TOWER NOTE

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE AMERICAN TOWER CONSTRUCTION MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS.
- 2. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. WHERE POSSIBLE UTILIZE EXISTING CABLE SUPPORT STRUCTURES AS PROVIDED FOR CARRIER TO ADEQUATELY SECURE CABLES, USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER. OTHERWISE, ATTACH CABLES TO HORIZONTAL OR DIAGONAL TOWER MEMBERS USING PROPOSED STAINLESS STEEL ADAPTERS (DO NOT ATTACH TO TOWER LEG).
- TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)



PER MOUNT ANALYSIS COMPLETED BY
MASER CONSULTING, DATED 08-27-2021, THE
EXISTING MOUNT CAN ADEQUATELY
SUPPORT THE PROPOSED LOADING.

HYBRID CABLE INFO		
QUANTITY FROM COAX PORT	1	
LENGTH FROM SHELTER SURGE PROTECTOR TO ENTRY PORT	11'-0" ±	
LENGTH FROM ENTRY PANEL TO TOWER	5'-2" ±	
LENGTH FROM T.O.C. TO TOWER SURGE PROTECTOR C/L	172'-0" ±	
TOTAL HYBRID CABLE LENGTH	189'-2" ±	
POWER SHIFT NEEDED DUE TO HYBRID LENGTH OVER 175 FEET		

SPECIAL NOTES:

- 1. GC TO VERIFY ALL HEIGHTS AND AZIMUTHS IN FIELD PRIOR TO CONSTRUCTION. GC SHALL NOTIFY P.M. AND ARCHITECT/ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
- 2. STRUCTURAL/ DESIGN &
 ANALYSIS SHALL BE PERFORMED
 & APPROVED BY TOWER OWNER
 AND MANUFACTURER
 (STRUCTURAL ANALYSIS BY
 OTHERS)
- 3. STRUCTURAL ANALYSIS
 PERFORMED BY OTHERS.
 CONTRACTOR TO THOROUGHLY
 REVIEW THE TOWER
 STRUCTURAL ANALYSIS FOR
 INFORMATION PERTAINING TO
 TOWER UPGRADES, MOUNTING
 TYPES, ANTENNA HEIGHTS, AND
 CABLE ROUTING, ANY OTHER
 DISCREPANCIES BETWEEN THE
 DRAWINGS, STRUCTURAL
 ANALYSIS, AND TOWER PLANS
 SHOULD BE BROUGHT TO THE
 ATTENTION OF THE PROJECT
 MANAGER PRIOR TO BIDDING
 AND INSTALLATION.





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REV.	DESCRIPTION	BY	DATE
<u> </u>	PRELIM	HEG	08/13/21
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ATC SITE NUMBER:

306035

ATC SITE NAME:

UNITY VILLAGE MO 2

VERIZON SITE NAME:

KCY SUMMIT WOODS

SITE ADDRESS: 2150 NW LOWENSTEIN LEES SUMMIT, MO 64081-1905

SEAL:



CONSISTENT WITH APPLICABLE LICENSING LAWS THIS
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П	DATE DRAWN:	09/16/2021
П	ATC JOB NO:	13667510
П	CUSTOMER ID:	KCY SUMMIT WOODS
П	CUSTOMER #:	300446

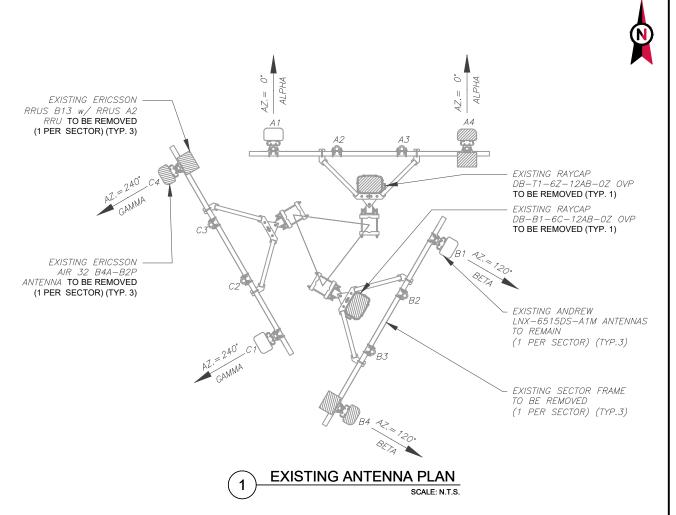
MONOPOLE TOWER ELEVATION

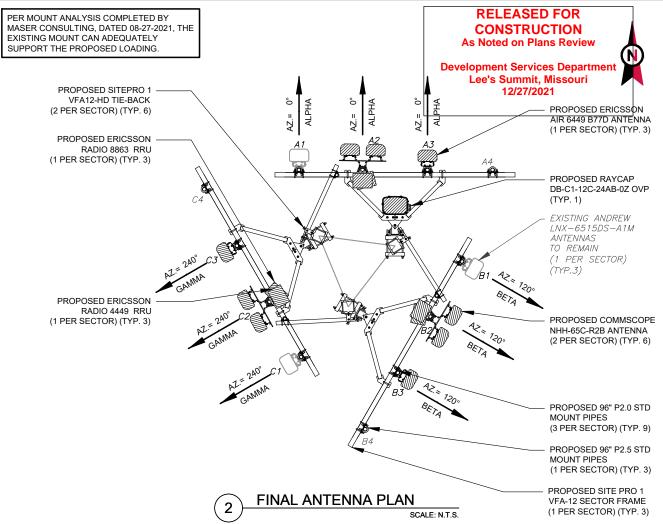
SHEET NUMBER:

REVISION

C-201

SELF SUPPORT ELEVATION
SCALE: N.T.S.





				EXISTING ANTENNA / EQUIPMENT SCHED	OLL			
LOCATION				ANTENNA SUMMARY			NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	MECH. D-TILT	ELEC. D-TILT	ADDITIONAL TOWER MOUNTED EQUIPMENT	
ALPHA			A1	ANDREW - LNX-6515DS-A1M	2	5	-	
	172'	0°	A2	_	_	_	-	
			A3	-	-	_	-	
			A4	ERICSSON - AIR 32 B4A-B2P	1	5	RRUS B13 W/ RRUS A2	
		120°		B1	ANDREW - LNX-6515DS-A1M	2	5	_
BETA	172'		B2	_	_	-	_	
DETA	1/2		B3	_	_	_	_	
			B4	ERICSSON - AIR 32 B4A-B2P	1	5	RRUS B13 W/ RRUS A2	
			C1	ANDREW - LNX-6515DS-A1M	2	5	-	
CAMMA	172'	240°	C2	_	_	-	-	
GAMMA	1/2	240	C3	-	_	_	_	
			C4	ERICSSON - AIR 32 B4A-B2P	1	5	RRUS B13 W/ RRUS A2	

- NOTES BASED ON APPROVED ATC APPLICATION 13667510, DATED N/A. CONFIRM WITH VERIZON REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG). GC TO CAP ALL UNUSED PORTS.

 ATC HAS NOT YET VERIFIED ANY
- EXISTING ANTENNA CONFIG OR MOUNT CONFIG. CONTRACTOR TO VERIFY MOUNT CONFIG HAS SUFFICIENT SPACE FOR PROPOSED LESSEE EQUIPMENT (EQUIP) (I.E. CLEARANCES, MOUNT PIPE, SUFFICIENT LENGTH, ETC.) ATC DID NOT ANALYZE ANTENNA MOUNT TO DETERMINE ADEQUATE STRUCTURAL CAPACITY FOR ANY LESSEE LOADING.
- ALL PROPOSED EQUIP INCLUDING ANTENNAS, COAX, ETC. SHALL BE MOUNTED IN ACCORDANCE WITH THE TOWER STRUCTURAL ANALYSIS ON FILE WITH ATC'S CM.
 CONFIRM SPACING OF PROPOSED
- EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS POSITIONS START WITH FIRST
- PIPE ON THE LEFT SIDE (AS VIEWED FROM BEHIND THE MOUNT).

P	LOCATION		ANTENNA SUMMARY			NON ANTENNA SUMMARY		
۲	SECTOR	RAD	AZ	POS	ANTENNA	MECH. D-TILT	ELEC. D-TILT	ADDITIONAL TOWER MOUNTED EQUIPMENT
О				A1	ANDREW - LNX-6515DS-A1M	2	5	-
•				A2	(2) COMMSCOPE - NHH-65C-R2B	0	3	RADIO 4449 & RADIO 8863
	ALPHA	172'	0°	А3	ERICSSON - AIR 6449	0	5	-
				A4	-	-	_	_
v				B1	ANDREW - LNX-6515DS-A1M	2	5	-
						B2	(2) COMMSCOPE - NHH-65C-R2B	0
G	BETA	172'	120°	В3	ERICSSON - AIR 6449	0	5	-
E				B4	_	-	_	_
M. D				C1	ANDREW - LNX-6515DS-A1M	2	5	-
1				C2	(2) COMMSCOPE - NHH-65C-R2B	0	3	RADIO 4449 & RADIO 8863
	GAMMA	172'	240°	СЗ	ERICSSON - AIR 6449	0	5	-
				C4	-	_	_	_

FINAL ANTENNA / EQUIPMENT SCHEDULE

CURRENT FIBER DISTRIBUTION	CURRENT CABLING SUMMARY			
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
(1) DB-B1-6C-12AB-0Z	RMV	-	(2) 1 1/4"	RMN
(1) DB-T1-6Z-12AB-0Z	RMV	_		

STATUS ABBREVIATIONS RMV: TO BE REMOVED RMN/ TO REMAIN REL: TO BE RELOCATED DSC: TO BE DISCONNECTED & REMAIN ADD: TO BE ADDED

COMBINER TO ANTENNA: 10'

CABLE LENGTHS FOR JUMPERS FIBER DISTRIBUTION/OVP TO RRU: 15 RRU TO COMBINER: 10'

PROPOSED FIBER DISTRIBUTION	N/OVP BOX	PROPOSED CABLING SUMMARY			
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS	
(1) DB-C1-12C-24AB-0Z	ADD	I	(1) 12X24 1-5/8"	ADD	





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ATC SITE NUMBER:

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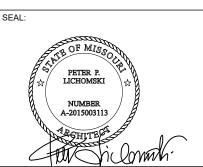
ATC SITE NAME:

UNITY VILLAGE MO 2

VERIZON SITE NAME:

KCY SUMMIT WOODS

SITE ADDRESS: 2150 NW LOWENSTEIN LEES SUMMIT, MO 64081-1905



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DATE DRAWN:	09/16/2021
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CUSTOMER ID:	KCY SUMMIT WOODS
CUSTOMER #:	300446

ANTENNA INFORMATION & SCHEDULE

SHEET NUMBER: REVISION C-401

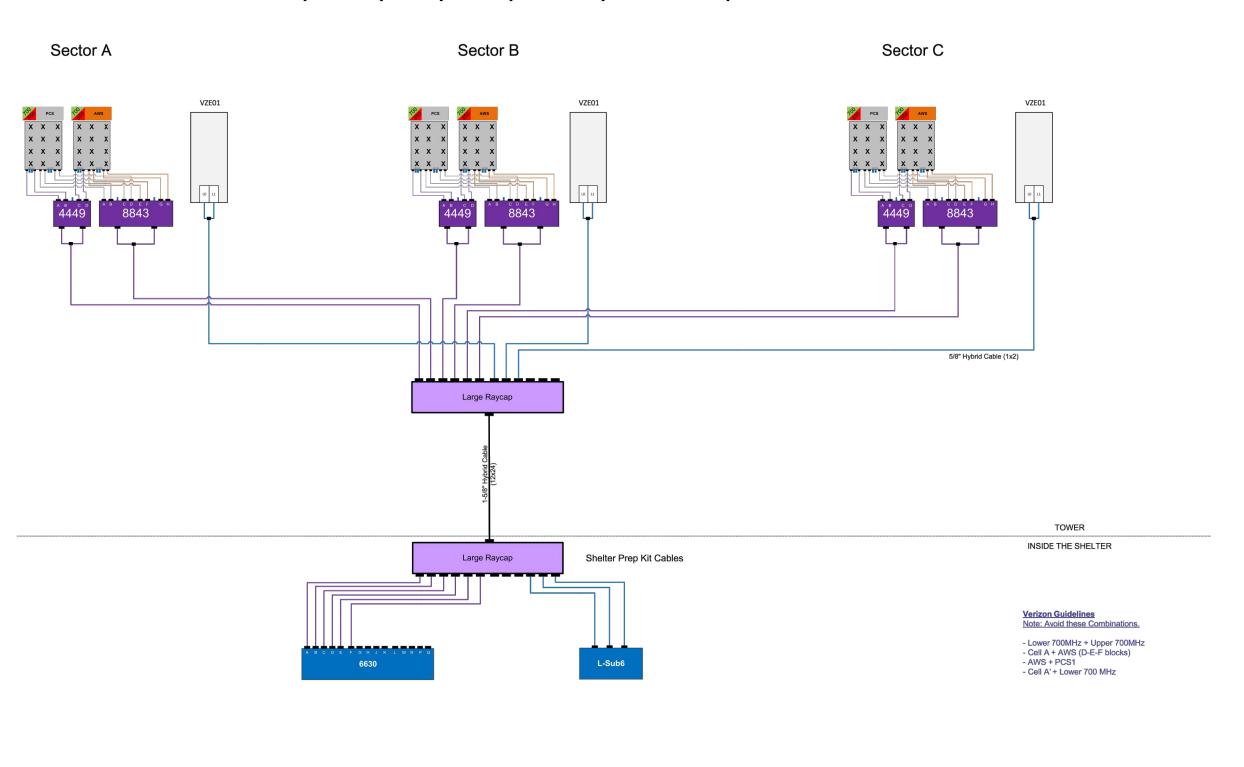
ANTENNA SCHEDULE

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As Noted on Plans Review

Development Services Department Lee's Summit, Missouri 12/27/2021

700 | AWS | 850 | PCS | CDMA | B5 5GNR | L-Sub6







Wixom, Michigan 48393
PHONE: (248) 705-9212

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DATE DRAWN:	09/16/2021
ATC JOB NO:	13667510
CUSTOMER ID:	KCY SUMMIT WOODS
CUSTOMER #:	300446

PLUMBING DIAGRAM

SHEET NUMBER:

REVISION

C-402

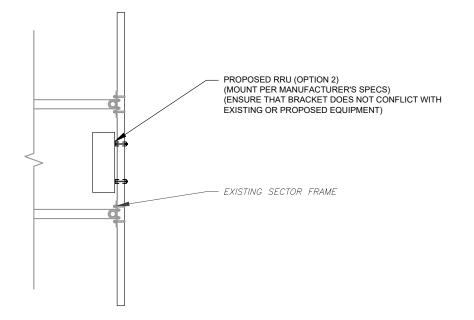
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PLUMBING DIAGRAM

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As Noted on Plans Review

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(MOUNT PER MANUFACTURER'S SPECS)
(ENSURE THAT BRACKET DOES NOT CONFLICT
WITH EXISTING OR PROPOSED EQUIPMENT)

PROPOSED MOUNTING PIPE ATTACHED TO
BOTH HORIZONTAL MEMBERS
ON EXISTING STAND-OFF SUPPORT
FOR 3-SIDE SECTOR FRAME ARRAY

EXISTING HORIZONTAL MEMBER ON
STAND-OFF SUPPORT (TYP.) FOR
3-SIDED SECTOR FRAME ARRAY

PROPOSED OVP MOUNTING

PROPOSED OVP

1 PROPOSED RRU MOUNTING DETAIL - TYPICAL SCALE: N.T.S.

EXISTING ANTENNA MOUNTING PIPE
TO BE REPLACED WITH PROPOSED
2-3/8" O.D. X 96" LONG
IF REQUIRED TO ACCOMMODATE
PROPOSED MOUNTING BRACKET

PROPOSED ANTENNA

PROPOSED ANTENNA

EXISTING
PLATFORM

ISOMETRIC VIEW (BY MANUFACTURER)

PROPOSED ANTENNA & RRU MOUNTING DETAIL - TYPICAL

SCALE: N.T.S.





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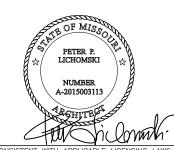
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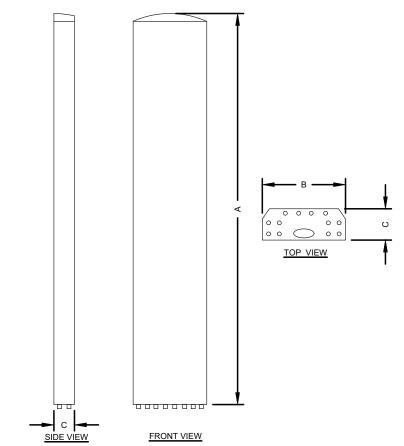
MOUNT DETAILS

SHEET NUMBER:

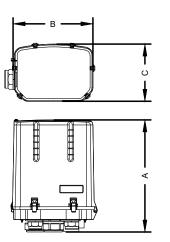
REVISION:

C-501

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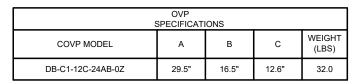


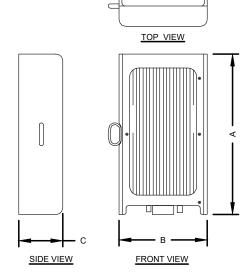
ANTENNA SPECIFICATIONS							
ANTENNA MODEL	А	В	С	WEIGHT (LBS)			
NHH-65C-R2B	96"	11.9"	7.1"	51.6			
AIR 6449 B77D	30.4"	15.9"	10.6"	81.6			



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RRU SPECIFICATIONS						
RRU MODEL	А	В	С	WEIGHT (LBS)		
RADIO 8863	15"	13.2"	11.1"	75		
RADIO 4449	15"	13.2"	9.3"	70		





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ATC SITE NUMBER:

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ATC SITE NAME:

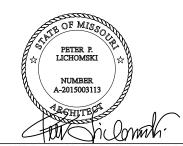
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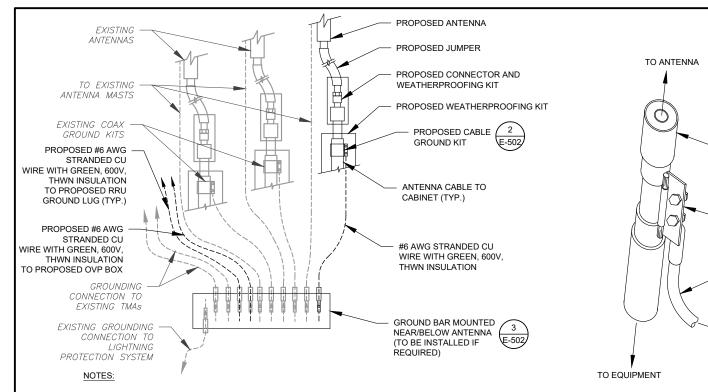
EQUIPMENT DETAILS

SHEET NUMBER:

REVISION:

C-502

EQUIPMENT MANUFACTURER DETAIL - FOR REFERENCE ONLY

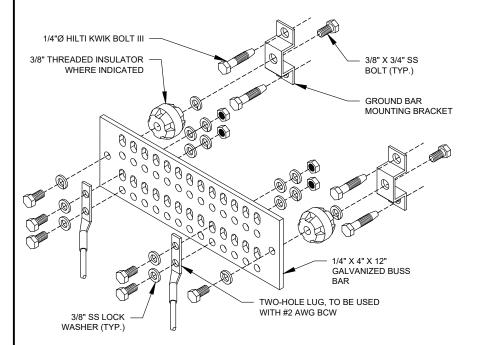


THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT
ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE
CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE
CONSTRUCTION MANAGER OF ANY CONFLICTS.

 SITE GROUNDING SHALL COMPLY WITH VERIZON GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH VERIZON GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN.

TYPICAL ANTENNA GROUNDING DIAGRAM

SCALE: N.T.S.



GROUND BAR NOTES

- GROUND KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
- GROUND BAR SHALL BE BOLTED TO STRUCTURAL MEMBER OR ANCHORED TO CONCRETE SLAB W/ HILTI KWIK BOLT III.

(5)

5 TYPICAL GROUND ROD DETAIL SCALE: N.T.S.

3/8" X 1-1/4" SS BOLT 3/8" SS LOCK WASHER RELEASED FOR (EACH SIDE) (EACH SIDE) CONSTRUCTION As Noted on Plans Review **Development Services Department** Lee's Summit, Missouri 12/27/2021 ANTENNA CABLE 2 1/2"Ø MAX GROUNDING KIT PER CABLE MANUFACTURER'S RECOMMENDATIONS 1/4" X 4" X 6" GROUND BAR (ANDREW OR APPROVED EQUAL) (ERICO P/N: EGBA14406CC OR EQUAL)

GROUND BAR NOTES:

- GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
- 2. GROUND BAR TO BE BONDED DIRECTLY TO TOWER.

TYPICAL CABLE GROUND KIT CONNECTION DETAIL

NUMBER 221213) AND INSTALL/TAPE PER MANUFACTURER'S SPECIFICATIONS

GROUND KIT NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT

2. CONTRACTOR SHALL PROVIDE WEATHERPROOFING KIT (ANDREW PART

GROUND WIRE DOWN TO GROUND BAR.

TO GROUND BAR

#6 AWG STRANDED COPPER GROUND

WIRE (GROUNDED TO GROUND BAR)

SCALE: N.T.S.

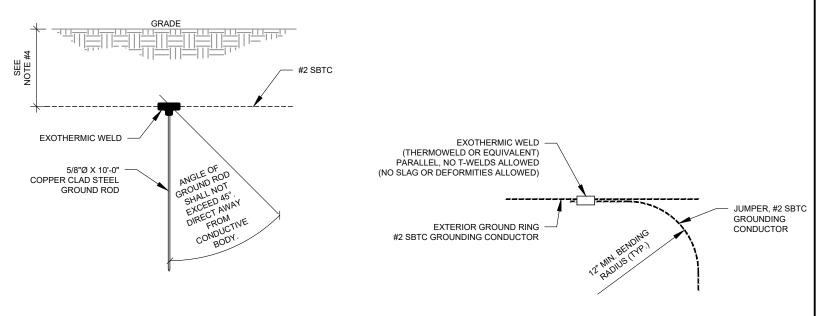
TYPICAL TOWER GROUND BAR DETAIL

CALE: N.T.S.

TWO-HOLE LUG, TO BE USED

(LOWER TOWER GROUND BAR ONLY)

WITH #2 AWG BCW



NOTES:

- SEPARATION DIMENSION TO BE VERIFIED WITH LOCAL UTILITY COMPANY REQUIREMENTS.
- 2. COORDINATE UTILITY, LOCATE BEFORE DIGGING.
- CONDUIT TRENCHING DEPTHS AT 36" OR 6" BELOW FROST LINE, WHICHEVER IS GREATER.
- 4. ALL RING AND RADIAL DEPTHS AT 30" OR 6" BELOW FROST LINE, WHICHEVER IS GREATER.

TYPICAL TIE CONNECTION DETAIL





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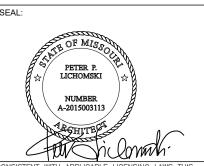
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GROUNDING DETAILS

SHEET NUMBER:

REVISION

E-502

MAIN GROUND BAR DETAIL

SCALE: N.T.S





Maser Consulting
5141 Virginia Way, Suite 420
Brentwood, TN 37027
615.686.2575
kevin.allen@colliersengineering.com

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Development Services Department Lee's Summit, Missouri 12/27/2021

New/Replacement Antenna Mount Analysis Report and PMI Requirements

Mount Analysis-R

SMART Tool Project #: 10090118

Maser Consulting Project #: 20780481A (Rev 1)

August 27, 2021

Site Information Site ID: 300446-VZW / SUMMIT WOODS

Site Name: SUMMIT WOODS
Carrier Name: Verizon Wireless
Address: 2150 NW Lowenstein

Lees Summit, Missouri 64081

Jackson County

Latitude: 38.93367° Longitude: -94.41721°

<u>Structure Information</u> Tower Type: 190-Ft Self Support

Mount Type: 12.50-Ft Sector Frame

FUZE ID # 16248309

Analysis Results

Sector Frame: 50.9% Pass

***Contractor PMI Requirements:

Included at the end of this MA report
Available & Submitted via portal at https://pmi.vzwsmart.com
Contractor - Please Review Specific Site PMI Requirements Upon Award
Requirements may also be Noted on A & E drawings

Report Prepared By: Morgan Chatmon

Final Loading Configuration:

The following equipment has been considered for the analysis of the mounts:

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
		6	Commscope	NHH-65C-R2B	
	172.00	3	Ericsson	AIR 6449	
170.00		3	Ericsson	4449	Added
170.00	172.00	3	Ericsson	8843	
		1	RFS	DB-C1-12C-24AB-0Z	
		3	Andrew	LNX-6515DS-A1M	Retained

It is acceptable to install up to any three (3) of the OVP model numbers listed below as required at any location other than the mount face without affecting the structural capacity of the mount. If OVP units are installed on the mount face, a mount re-analysis may be required.

Model Number	Ports	AKA
RRODC-6627-PF-48	12	OVP-12

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Development Services Department Lee's Summit, Missouri 12/27/2021

Standard Conditions:

- 1. All engineering services are performed on the basis that the information provided to Maser Consulting and used in this analysis is current and correct. The existing equipment loading has been applied at locations determined from the supplied documentation. Any deviation from the loading locations specified in this report shall be communicated to Maser Consulting to verify deviation will not adversely impact the analysis.
- 2. Mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.
- For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped by Maser Consulting, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.
- 4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
- 5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.
- 6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Maser Consulting is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.

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Acutyoust 27, P2021Review

Site ID: 300446-VZW/SUMMIT WOODS

Development Services Department

Lee's Summit, Missouri

12/27/2021

7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:

Channel, Solid Round, Angle, Plate
 HSS (Rectangular)
 Pipe
 Threaded Rod
 Bolts
 ASTM A36 (Gr. 36)
 ASTM 500 (Gr. B-46)
 ASTM A53 (Gr. B-35)
 F1554 (Gr. 36)
 ASTM A325

Discrepancies between in-field conditions and the assumptions listed above may render this analysis invalid unless explicitly approved by Maser Consulting.

Analysis Results:

Component	Utilization %	Pass/Fail
Face Horizontal	34.2%	Pass
Standoff Plate	50.9%	Pass
Standoff Horizontal	32.1%	Pass
Standoff Diagonal	9.4%	Pass
Tieback	13.2%	Pass
Mount Pipe	22.7%	Pass
Dual Mount Pipe	22.3%	Pass
Standoff Vertical	13.9%	Pass
Mount Connection	18.3%	Pass

Structure Rating – (Controlling Utilization of all Components)	50.9%
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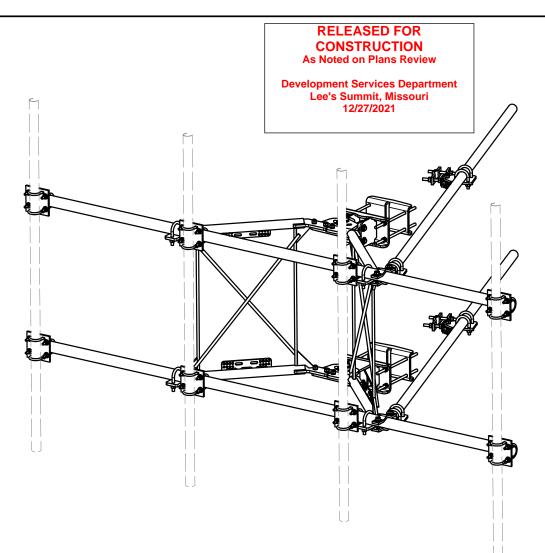
Recommendation:

The proposed antenna mounts are **SUFFICIENT** for the final loading configuration and do not require modifications.

ANSI/ASSP rigging plan review services compliant with the requirements of ANSI/TIA 322 are available for a Construction Class IV site or other, if required. Separate review fees will apply.

Attachments:

- 1. Mount Specification
- 2. Analysis Calculations
- 3. Contractor Required Post Installation Inspection (PMI) Report Deliverables
- 4. Antenna Placement Diagrams



			PARTS LIST			
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	2	X-VFAW	SUPPORT ARM		71.41	142.81
2	1	X-HDCAMTBW	CLAMP WELDMENT FOR BCAM-HD		33.86	33.86
3	1	X-MHTPHD	MULTI-HOLE TAPER PLATE WELDMENT		36.24	36.24
4	2	X-VFAPL4	VFA-HD PIVOT PLATE	12 in	15.88	31.77
5	2	X-LCBP4	BENT BACKING PLATE	13 in	19.00	38.01
6	1	X-HDCAMSS	ANGLE ADJUSTMENT WELDMENT FOR BCAM-HD		16.39	16.39
7	4	X-SPTB	SLIDING PIPE TIE BACK PLATE	5 1/2 in	5.87	23.49
8	1	X-HDCAMSP	POSITIONING PLATE WELDMENT FOR BCAM-HD		2.58	2.58
9	4	X-TBCA	TIE BACK CLIP ANGLE		2.01	8.02
10	8	SCX2	CROSSOVER PLATE	7 in	4.80	38.37
11	4	MCP	CLAMP HALF 1/2" THICK, 11-5/8" LONG	12 1/16 in	3.59	14.37
12	8	DCP	1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF	8 1/8 in	2.36	18.90
13	2	P2126	2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE	126 in	40.75	81.50
14	2	P30150	2-7/8" X 150" (2-1/2" SCH. 40) GALVANIZED PIPE	150 in	76.94	153.87
15	4	A34212	3/4" x 2-1/2" UNC HEX BOLT (A325)	2 1/2 in	0.48	1.92
16	4	G34FW	3/4" HDG USS FLATWASHER		0.06	0.24
17	4	G34LW	3/4" HDG LOCKWASHER		0.04	0.17
18	4	G34NUT	3/4" HDG HEAVY 2H HEX NUT		0.21	0.85
19	8	G58R-18	5/8" x 18" THREADED ROD (HDG.)	18 in	0.40	3.19
20	4	G58R-12	5/8" x 12" THREADED ROD (HDG.)		1.05	4.18
21	4	G58R-8	5/8" x 8" THREADED ROD (HDG.)		0.70	2.79
22	4	X-UB5300	5/8" X 3" X 5-1/4" X 2-1/2" U-BOLT (HDG.)		1.15	4.60
23	8	X-UB5258	5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.)		1.00	8.00
24	2	G5807	5/8" x 7" HDG HEX BOLT GR5 FULL THREAD	7 in	0.70	1.41
25	1	G5806	5/8" x 6" HDG HEX BOLT GR5 FULL THREAD	6 in	0.62	0.62
26	8	G5804	5/8" x 4" HDG HEX BOLT GR5		0.44	3.55
27	4	G5802	5/8" x 2" HDG HEX BOLT GR5		0.27	1.08
28	8	A582114	5/8" x 2-1/4" HDG A325 HEX BOLT	2 1/4 in	0.31	2.50
29	25	G58FW	5/8" HDG USS FLATWASHER	1/8 in	0.07	1.76
30	66	G58LW	5/8" HDG LOCKWASHER		0.03	1.72
31	71	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	9.22
32	32	X-UB1300	1/2" X 3" X 5" X 2" GALV U-BOLT		0.74	23.64
33	16	X-UB1212	1/2" X 2" X 3" X 1-1/4" U-BOLT (HDG.)		0.60	9.56
34	64	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	2.18
35	64	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	0.89
36	64	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	4.58
				•	TOTAL WT. #	738.06

D	UPDATED BCAM VERSION 1 TO BCAM VERSION 2		CEK	6/29/2018		
С	UPDATED PIN LEG CONNECTION TO B-CAM CONNECTION		CEK	12/7/2017		
В	CHANGED TIE-BACK BACK CONNECTION		CEK	7/31/2017		
Α	CHANGED TIE-BACK FRONT CONNECTION		CEK	2/2/2017		
REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE		
	REVISION HISTORY					

TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE: SAWED, SHEARED AND GAS CUT EDGES (± 0.030°) DRILLED AND GAS CUT HOLES (± 0.030°) - NO CONING OF HOLES LASER CUT EDGES AND HOLES (± 0.010°) - NO CONING OF HOLES BENDS ARE ± 1/2 DEGREE

ALL OTHER MACHINING (± 0.030") ALL OTHER ASSEMBLY (± 0.060")

PROPRIETARY NOTE:
THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT
INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF
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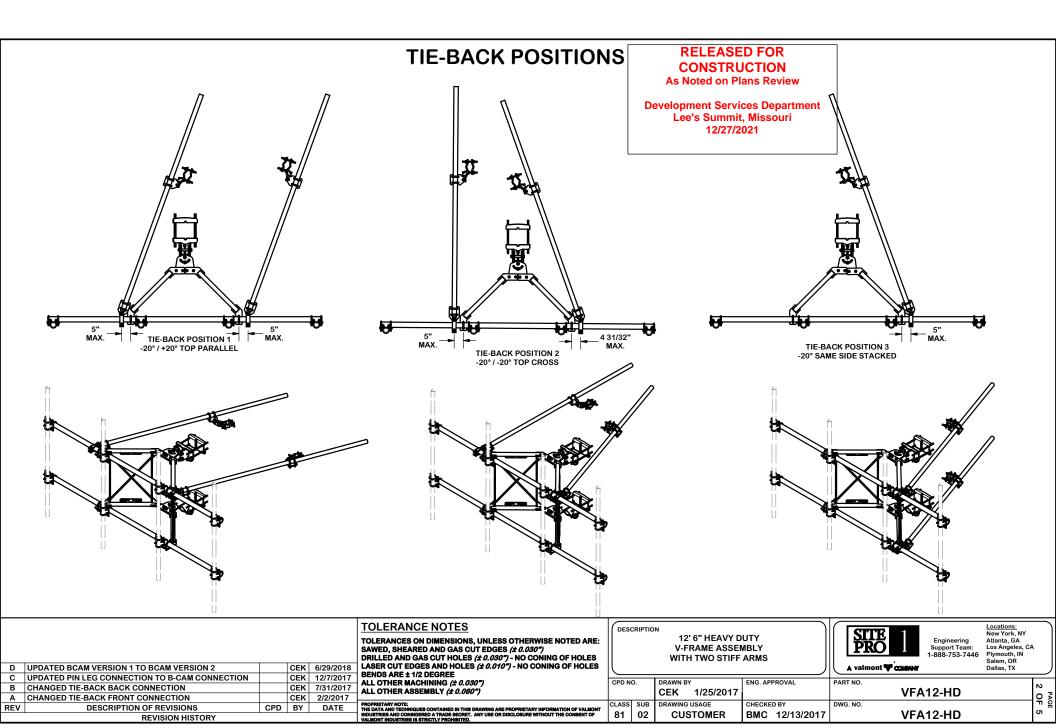
DESCRIPTION

12' 6" HEAVY DUTY V-FRAME ASSEMBLY WITH TWO STIFF ARMS



Engineering Atlanta, GA
Support Team: Locations:
New York, NY
Atlanta, GA
1-888-753-7446
Plymouth, IN
Salem, OR
Dallas, TX

CPD N	0.	DRAWN BY	ENG. APPROVAL	PART NO.	
		CEK 1/25/2017		VFA12-HD	0 }
CLASS	SUB	DRAWING USAGE	CHECKED BY	DWG. NO.	TT 8
81	02	CUSTOMER	BMC 12/13/2017	VFA12-HD	5



REVISION HISTORY

Special Instructions / Validation as required from the MA or any other information the contractor deems necessary to share that was identified:

Issue:

- 1. Install (4) mount pipes, equally spaced at 48", connected to face horizontals with crossover plates. Mount pipes at position 1, 3 and 4 be 96" long P2.0 STD and mount pipe at position 2 be 96" long P2.5 STD. All Mount pipes to be cantilevered up by 32" from top face horizontal. (TYP. ALL SECTORS)
- 2. Install (1) proposed OVP directly on to top left standoff (when viewed mount from behind) at 12" from standoff end close to tower leg in alpha sector.
- 3. Contractor to inspect climbing facilities at site and ensure that the safety climb is in good condition and that the wire rope will not interfere with the proposed mount connections. Contractor shall install safety climb wire rope guides around mount connections as needed.

Response:			

RELEASED FOR CONSTRUCTION

As Noted on Plans Review

Development Services Department Lee's Summit, Missouri 12/27/2021