

RELEASED FOR CONSTRUCTION As Noted on Plans Review

Development Services Department Lee's Summit, Missouri 11/17/2021



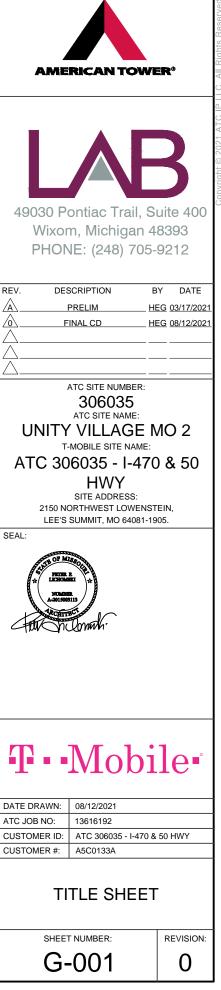
ATC SITE NAME: UNITY VILLAGE MO 2 ATC SITE NUMBER: 306035 Holden T-MOBILE SITE NAME: ATC 306035 - I-470 & 50 HWY T-MOBILE SITE NUMBER: A5C0133A SITE ADDRESS: 2150 NORTHWEST LOWENSTEIN, LEE'S SUMMIT, MO 64081-1905.



LOCATION MAP

T-MOBILE ANCHOR ANTENNA AMENDMENT PLAN 56791EZ SR CONFIGURATION

COMPLIANCE CODE	PROJECT SUMMARY	PROJECT DESCRIPTION	SHEET INDEX				
ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS	SITE ADDRESS:	THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW: TOWER WORK:	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
	2150 NORTHWEST LOWENSTEIN,	REMOVE (3) ANTENNA(s), (3) RRU(s), (3) TTA(s), (1) 1-5/8" COAX CABLE,	G-001	TITLE SHEET	0	08/12/2021	HEG
TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO	LEE'S SUMMIT, MO 64081-1905.	(1) COVP.	G-002	GENERAL NOTES	0	08/12/2021	HEG
THESE CODES. 1. INTERNATIONAL BUILDING CODE (IBC)	COUNTY: LOWENSTEIN PARK	INSTALL (3) ANTENNAS, (3) RRHS, (2) HCS 2.0 AND (2) 1.46" HYBRID CABLE, (3) SITEPRO 1 STABILIZER KIT (SFS-V-L), (3) SITEPRO 1 BULK PIPE (P2150),	C-101	DETAILED SITE PLAN & TOWER ELEVATION	0	08/12/2021	HEG
2. NATIONAL ELECTRIC CODE (NEC)	GEOGRAPHIC COORDINATES:	(9) SITEPRO 1 CROSSOVER KIT (SCX7-U).	C-102	GROUND DETAIL PLAN	0	08/12/2021	HEG
3. LOCAL BUILDING CODE	LATITUDE: 38.93360600	EXISTING (6) ANTENNAS, (3) RRUS, (6) 7/8" COAX CABLES, (5) 1-5/8" COAX CABLES TO REMAIN.					
4. CITY/COUNTY ORDINANCES	LONGITUDE: -94.41752200 GROUND ELEVATION: 974' AMSL	GROUND WORK:	C-201	TOWER ELEVATION	0	08/12/2021	HEG
	GROUND ELEVATION: 974 AMSL	REMOVE (2) AMOB, (1) FXFB, (1) ABIA, (1) ASIA, (1) ESMC, (1) COVP, (1) SSC	C-401	ANTENNA INFORMATION & SCHEDULE	0	08/12/2021	HEG
			C-501	CONSTRUCTION DETAILS	0	08/12/2021	HEG
		INSTALL (1) DELTA HPL3 SSC, (1) DELTA LB3 BSU, (2) HCS2.0, (1) ASIK, (1) ASIB, (3) ABIL W/ (3) ABIC, (2) AMIA, (1) VOLTAGE BOOSTER, (1) AMPLIFIER.	C-502	CABLE AND MOUNTING DETAILS	0	08/12/2021	HEG
	EXISTING (1) FSMF, (1) ASIA, (1) ASIA, (1) ABIA, (1) ABIL TO REMAIN.		C-503	LARGE BATTERY 3 CABINET MANUFACTURER DETAIL	0	08/12/2021	HEG
	PROJECT TEAM	PROJECT NOTES	C-504	HP-LARGE 3 POWER CABINET MANUFACTURER DETAIL	0	08/12/2021	HEG
	TOWER OWNER: APPLICANT: 2. A TECHNICIA AMERICAN TOWER T-MOBILE NORTHEAST LLC A MONTH FO 3. THE PROJECT	THE FACILITY IS UNMANNED. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE	E-501	GROUNDING DETAIL	0	08/12/2021	HEG
		3. THE PROJECT WILL NOT RESULT IN ANT SIGNIFICANT LAND	E-601	ELECTRICAL ONE-LINE DIAGRAM	0	08/12/2021	HEG
	10 PRESIDENTIAL WAY 12050 BALTIMORE . WOBURN, MA 01801 BELTSVILLE, MD	BIGTORDANCE OR EITEOT OF OTORINI WATER DRAINAGE.	R-601	SUPPLEMENTAL			
UTILITY COMPANIES	ENGINEER:	DISPOSAL IS REQUIRED. 5. HANDICAP ACCESS IS NOT REQUIRED.	R-602	SUPPLEMENTAL			
POWER COMPANY: N/A	POWER COMPANY: N/A PHONE: N/A ATC TOWER SERVICES, LLC 3500 REGENCY PKWY STE 100	 THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO 	R-603	SUPPLEMENTAL			
		EXPEDITED REVIEW UNDER 47 U.S.C. 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT		MOUNT MODIFICATION (9 PAGES)			
TELEPHONE COMPANY: N/A PHONE: N/A	- ,	INVOLVES THE COLLOCATION, REMOVAL, AND/OR					
	PROPERTY OWNER:	REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR 1.61000 (B)(7).					
	N/A	PROJECT LOCATION DIRECTIONS					
		FROM LEE'S SUMMIT MUNICIPAL AIRPORT, HEAD SOUTH ON NE DOUGLAS ST TOWARD LEE'S SUMMIT RD 0.7 MI, TURN LEFT TO STAY ON NE DOUGLAS ST 0.6 MI, USE THE RIGHT 2 LANES TO TURN RIGHT TO MERGE WITH I-470 W 0.2 MI, MERGE WITH I-470 W 3.6 MI, TAKE EXIT	-				
Know what's below. Call before you dig.		5 FOR VIEW HIGH DR 0.2 MI, TURN LEFT ONTO VIEW HIGH DR 459 FT, TURN LEFT TO MERGE WITH I-470 E/US-50 E TOWARD LEE'S SUMMIT 1.2 MI, USE THE RIGHT LANE TO TAKE EXIT 7A FOR U.S 50 E TOWARD SEDALIA 0.5 MI.					



GENERAL CONSTRUCTION NOTES:

- OWNER FURNISHED MATERIALS, T-MOBILE "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL
 - 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
 - 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
 - M. HANGERS
 - HOISTING GRIPS
 - O. BTS EQUIPMENT
- 2. 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-TRAME 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 T-MOBILE 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 3. CODES, INCLUDING ANSI/EIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS
- CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED 5. INSPECTIONS
- ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL 6. DISCREPANCIES REPORTED TO THE ENGINEER.
- DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS 7
- DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS 8.
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION 9. SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED 10. FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
- CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS 11. DRAINS, DRAIN PIPES, VENTS, ETC, BEFORE COMMENCING WORK
- 12. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISEITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE T-MOBILE REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE T-MOBILE REP PRIOR TO PROCEEDING
- 13. EACH CONTRACTOR SHALL COOPERATE WITH THE T-MOBILE REP. AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
- CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS 14. PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE T-MOBILE CONSTRUCTION MANAGER
- ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING 15. INSTALLATION USING A SILICONE SEALAN
- 16. WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE T-MOBILE REP AND ENGINEER OF RECORD
- 17. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT
- 18. CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF FACH DAY
- CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF 19. OTHER OCCUPANTS OF THE FACILITY
- CONTRACTOR SHALL FURNISH T-MOBILE AND AMERICAN TOWER CORPORATION (ATC) WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK. 20.
- PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH T-MOBILE REP TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED 21. SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL ALL ITEMS PROVIDED

- 22. PRIOR TO SUBMISSION OF BID. CONTRACTOR SHALL COORDINATE WITH T-MOBILE REP. TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY T-MOBILE MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR
- CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH T-MOBILE SPECIFICATIONS AND REQUIREMENTS. 23.
- 24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO T-MOBILE FOR REVIEW AND APPROVAL PRIOR TO FABRICATION
- ALL FOUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S 25. SPECIFICATIONS AND LOCATED ACCORDING TO T-MOBILE SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. 26. 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.
- 27. CONTRACTOR SHALL NOTIFY T-MOBILE 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 APPROVAL
- 28. 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.
- 30. 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 T-MOBILE REP. ANY WORK FOUND BY THE T-MOBILE REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED
- 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 AS SPECIFIED
- T-MOBILE FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE T-MOBILE WAREHOUSE, NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNCRATE, PROTECTED 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.
- T-MOBILE 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 T-MOBILE OR THEIR ARCHITECT/ENGINEER

SPECIAL CONSTRUCTION ANTENNA INSTALLATION NOTES:

WORK INCLUDED:

29.

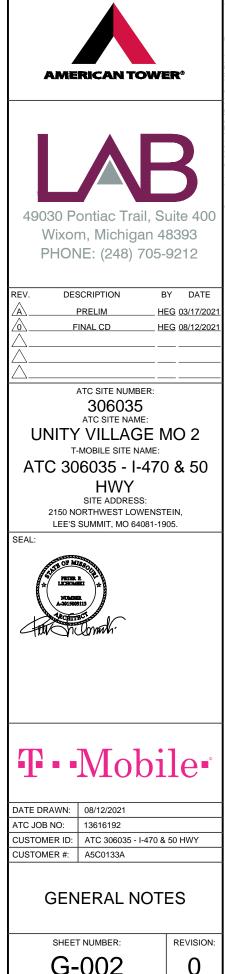
- ANTENNA AND COAXIAL CABLES ARE FURNISHED BY T-MOBILE UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OD COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL AND
- B. INSTALL ANTENNA AS INDICATE ON DRAWINGS AND T-MOBILE 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
- 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 RS "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 EQUIREMENTS. 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 EQUAL
- 3. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF

COAXIAL CABLE (NOT WITHIN BENDS)

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.

RELEASED FOR CONSTRUCTION As Noted on Plans Review

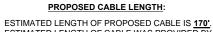
Development Services Department Lee's Summit, Missouri 11/17/2021



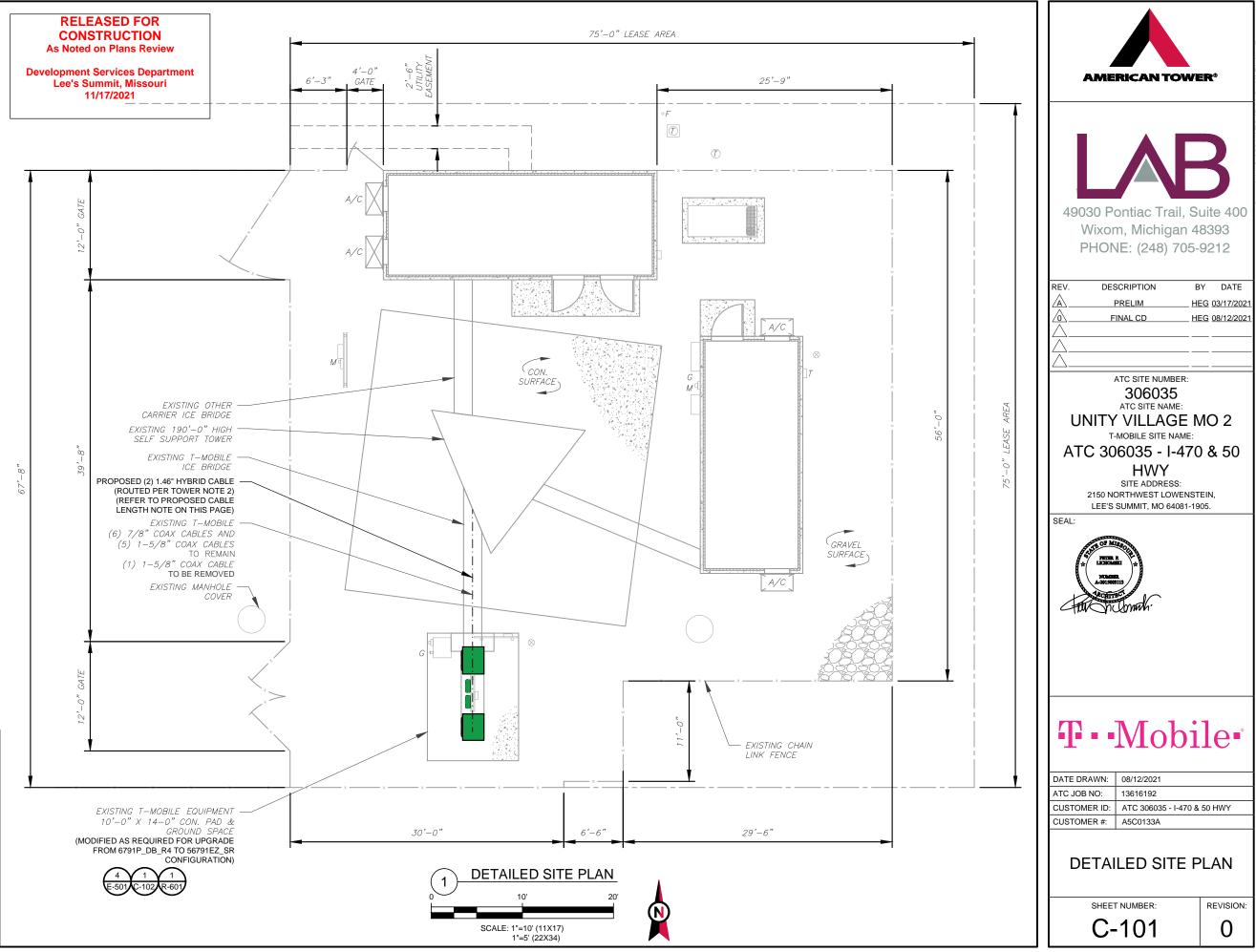
SITE PLAN NOTES:

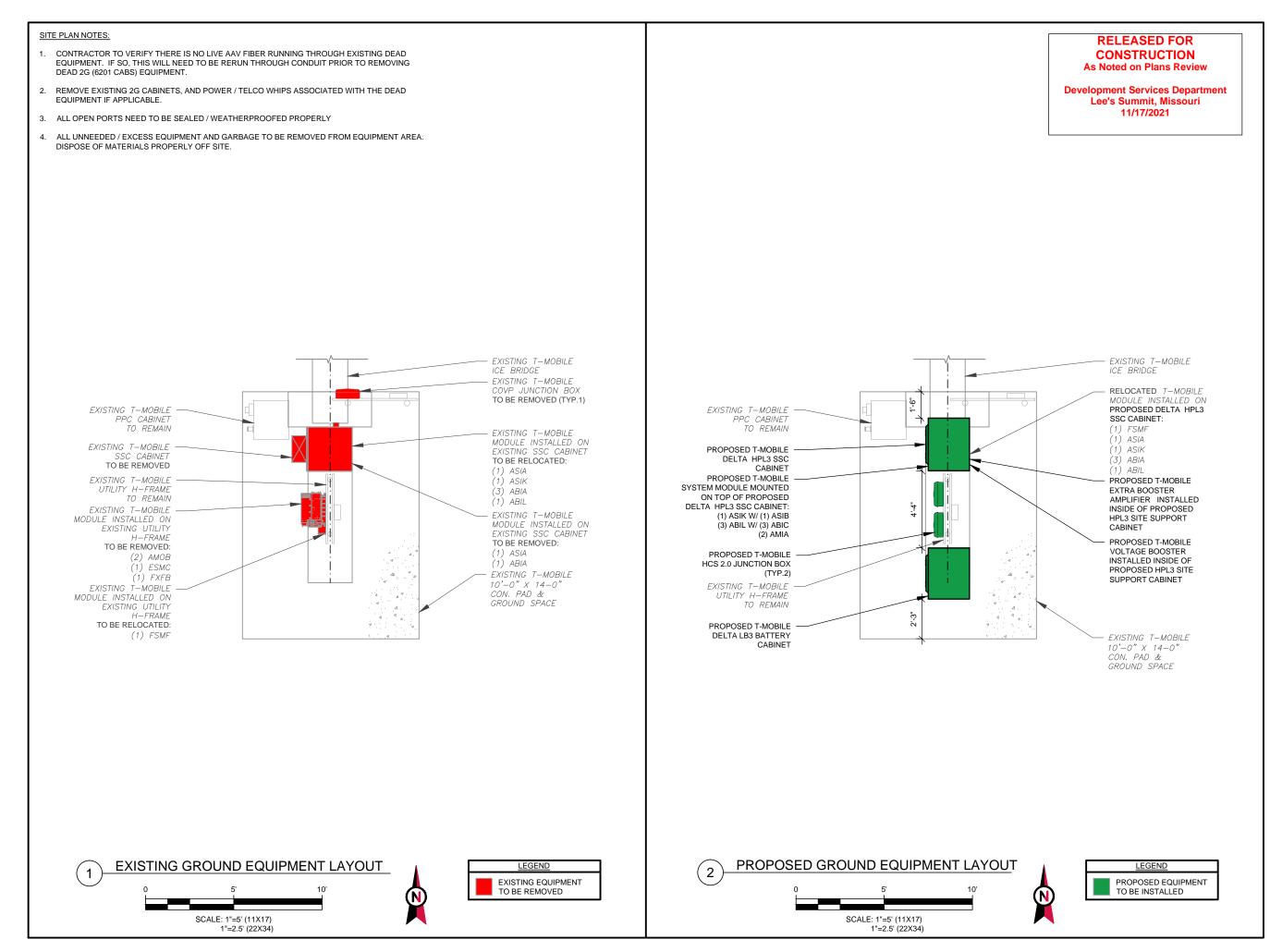
- THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
- 2. ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE 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.

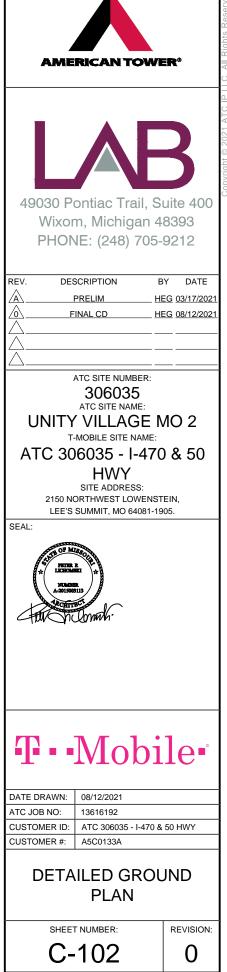
LEGEND				
S ATS B CSC D E F GEN G HH, V	LEGEND GROUNDING TEST WELL AUTOMATIC TRANSFER SWITC BOLLARD CELL SITE CABINET DISCONNECT ELECTRICAL FIBER GENERATOR GENERATOR GENERATOR RECEPTACAL HAND HOLE, VAULT			
IB K LC M PB PP T T TRN X	ICE BRIDGE KENTROX BOX LIGHTING CONTROL METER PULL BOX POWER POLE TELCO TRANSFORMER CHAINLINK FENCE			

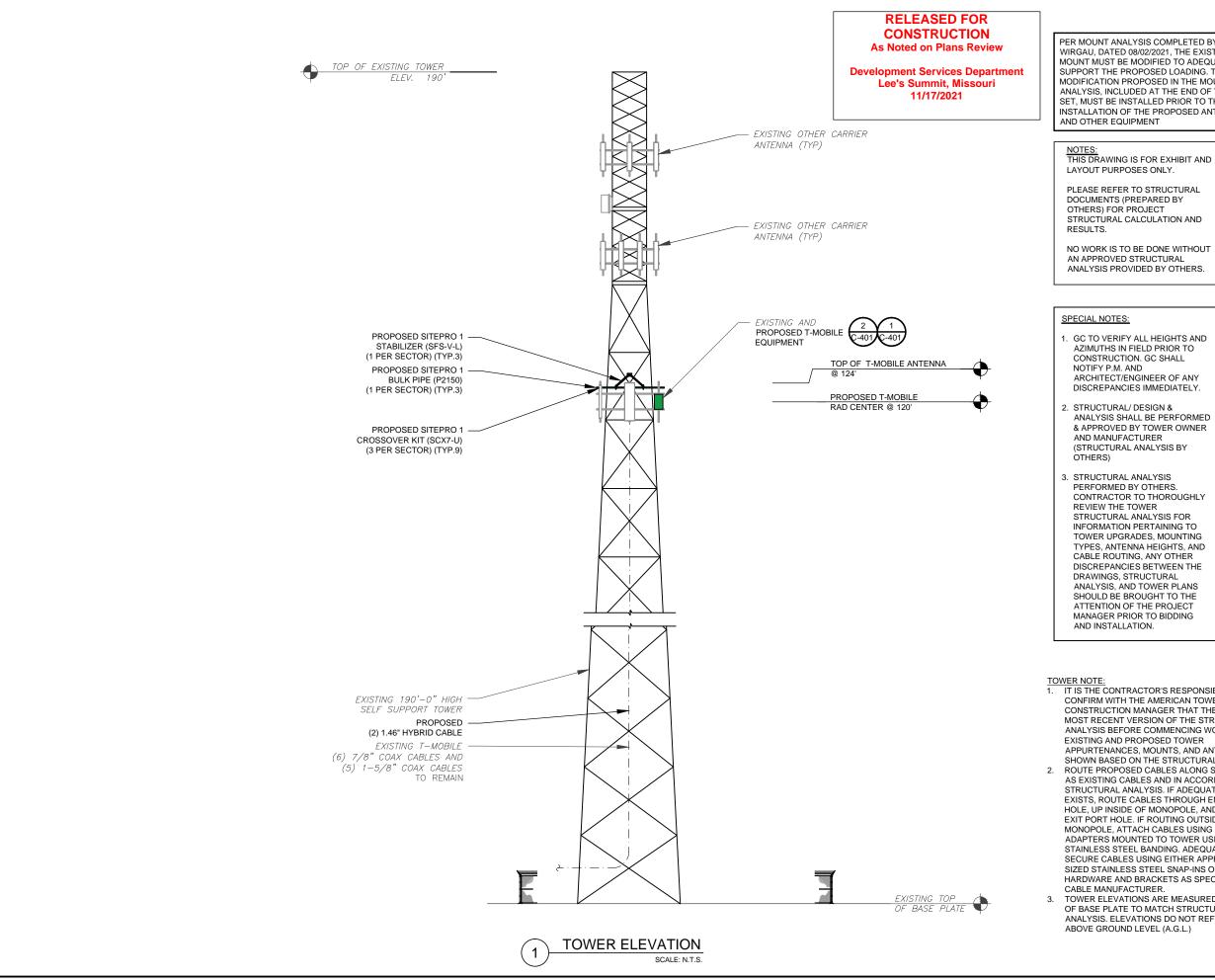


- ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM EQUIPMENT LOCATION TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 15% (OF THE TWO PREVIOUS VALUES), CDS DEFER TO GREATEST CABLE LENGTH.
- 2. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.









PER MOUNT ANALYSIS COMPLETED BY SCOTT A. WIRGAU, DATED 08/02/2021, THE EXISTING MOUNT MUST BE MODIFIED TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS

STRUCTURAL CALCULATION AND

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

GC TO VERIFY ALL HEIGHTS AND AZIMUTHS IN FIELD PRIOR TO CONSTRUCTION. GC SHALL ARCHITECT/ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.

ANALYSIS SHALL BE PERFORMED & APPROVED BY TOWER OWNER AND MANUFACTURER (STRUCTURAL ANALYSIS BY

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

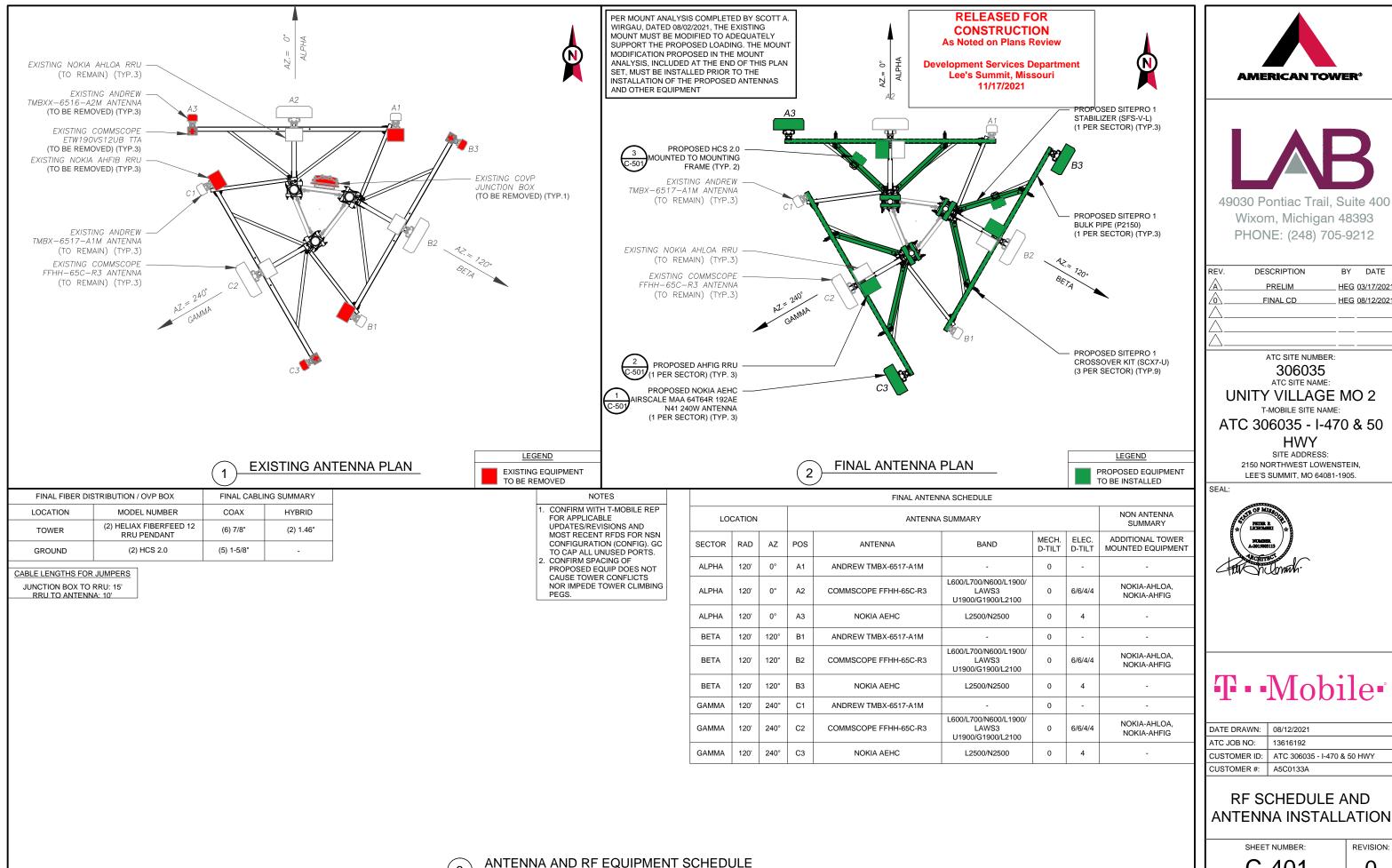
IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE AMERICAN TOWER CONSTRUCTION MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER

APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY

SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY

TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)





3

BY DATE

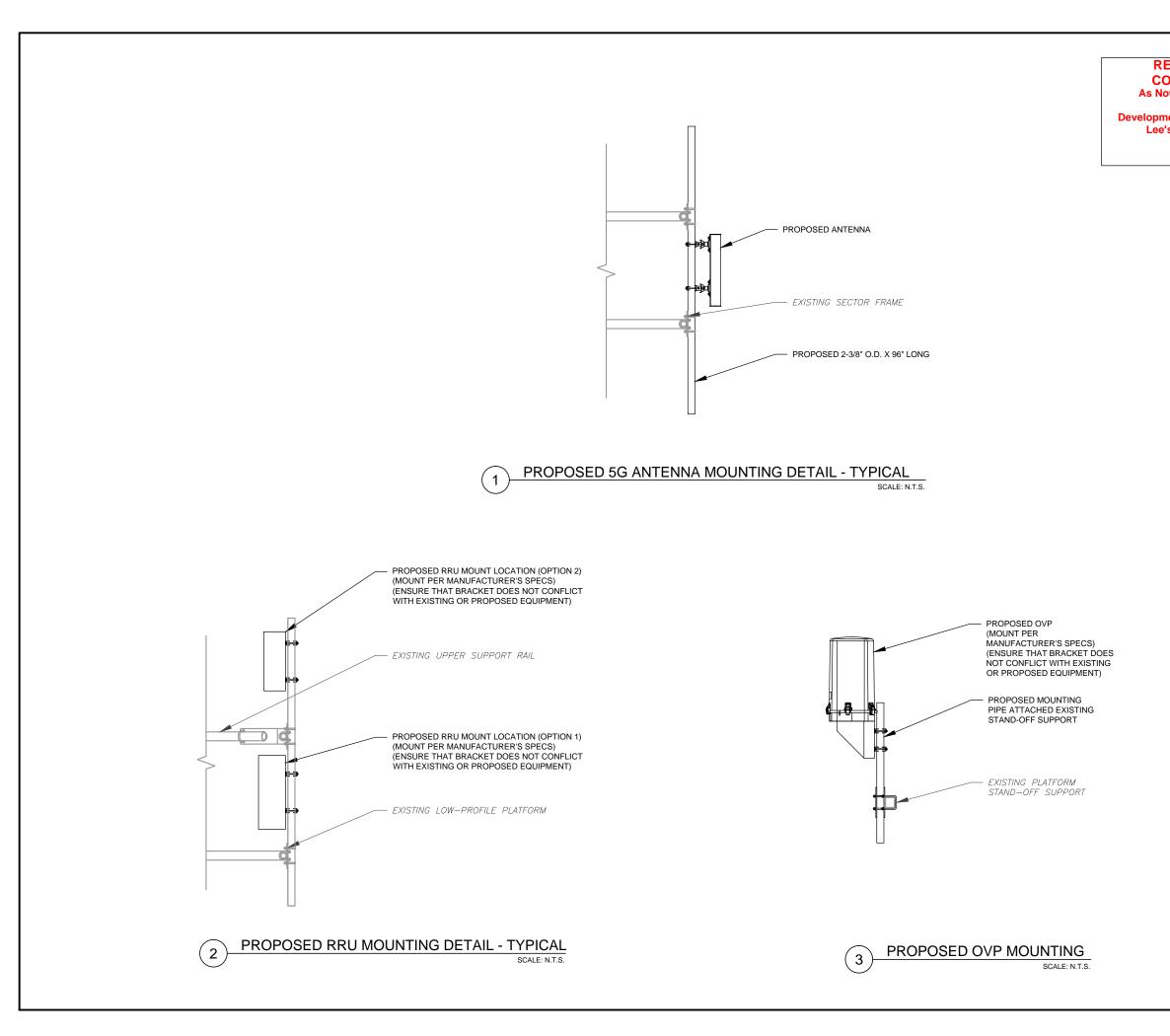
HEG 03/17/2021

HEG 08/12/202

REVISION:

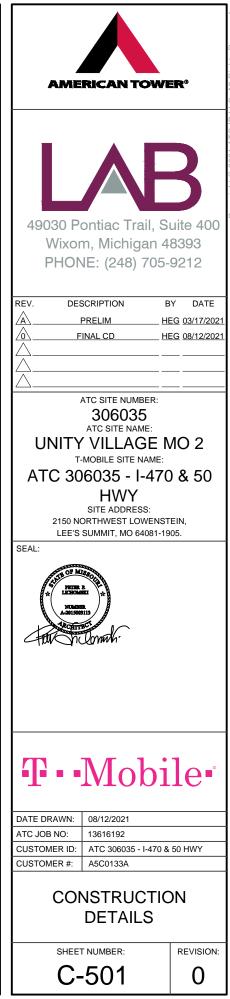
C-401

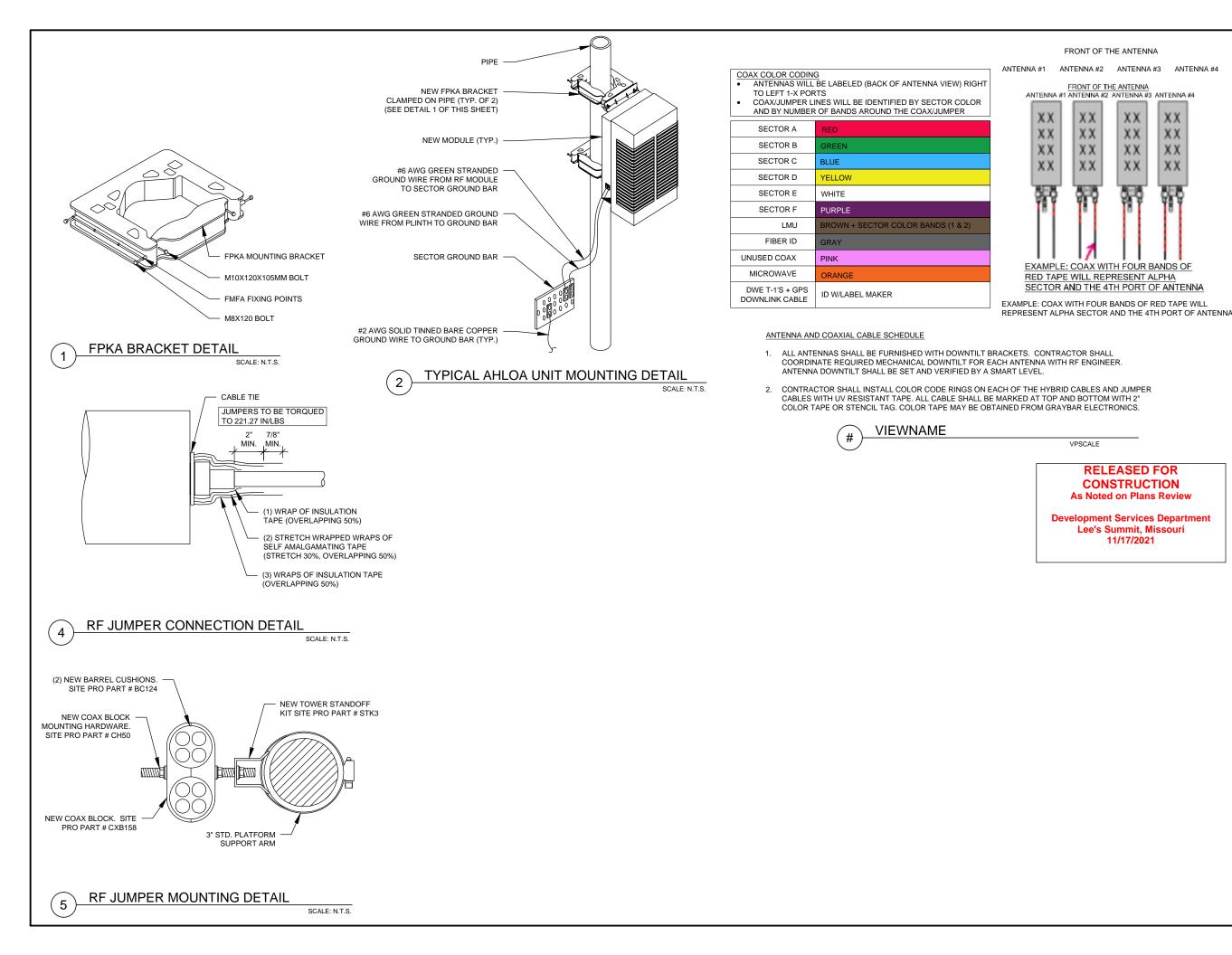
0



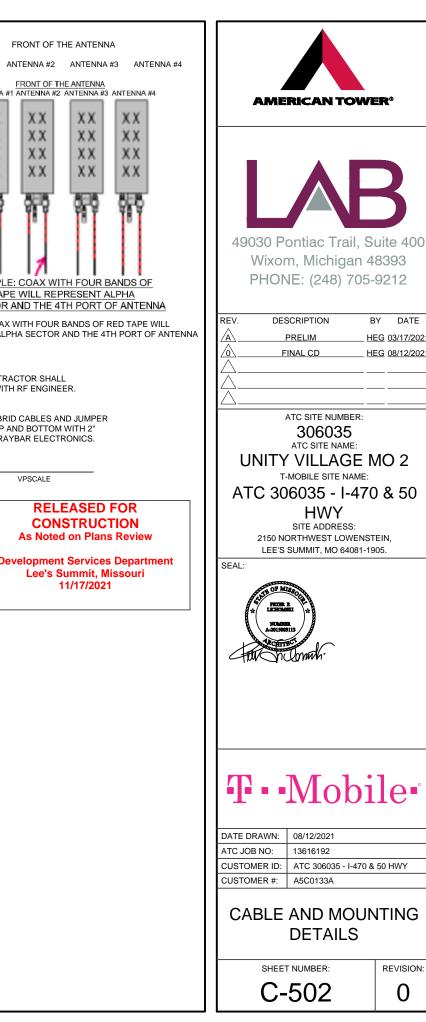
RELEASED FOR CONSTRUCTION As Noted on Plans Review

Development Services Department Lee's Summit, Missouri 11/17/2021





BY DATE



XX

XX

XX

XX

REVISION: 0

A Deve

Delta Group Wel www.delta Product Website www.deltap United States of Delta Elect 2925 E. Pla Plano, TX Sales and Orders DEUSTPS.S DEUSTPS. Field Support: 1-877-DE (877-335-8 DEUSTPS. Installation Servi DEUSTPS.

RMA:

DEUSTPS.



Large Battery 3 Cabinet

Product Features

Compact design for battery strings:

- Direct air cooling solution
- Supports four strings of -48V VRLA batteries up to 210Ah
- 600A rated bus bar with 200A breaker per string
- Bulk Input / Output with ability to daisy chain cabinets
- Front to Front Air Flow
- Corrosion resistant aluminum construction
- Powder coated high gloss finish
- Designed to meet GR-487



Specifications

1. General			
Construction	Aluminium enclosure		
Dimensions	30 x 72 x 35 in. (381 x 1829x 889mm),		
(W x H x D)	Depth with Door: 41.2 in. (1047mm)		
Weight	~540 lbs (~245kg) (without batteries)		
Internal rack dimension	4 battery trays to support up to 4 strings 210Ah batteries		
Mounting options	Pad-mount, plinth option		
Finish	Polyester Power Paint (Tan)		
Safety	UL Listed , IEC / EN 60950		
2. Environment			
Operating temperature	-40°C to +50°C (-40°F to +122°F) with solar load		
Protection class	IP55 designed to GR-487		
Acoustics	65dBA		
Humidity (relative)	95%, non-condensing (Max.)		
3. Thermal Managemer			
Cooling Equipment:	and a second		
Heating Equipment:	Direct Air Cooling Forced air heating (1) 1000W AC heaters		
4. Equipment	Forced all heating (1) 1000vv AC heaters		
4. Equipment	Knock-out plate on each upper side wall		
Cable entry	Additional knockouts each side		
Door latch			
	3 point latching, 5/16 nut driver tool, pad-locking capability		
Primary ground	10 double-hole ¼"-20 threaded holes on 5/8" center ground bar		
Lifting Ears	4 Lifting Tabs		
Plinth	Optional 6" plinth available		
	AC Load Center:		
	30A heater breaker		
	Left or Right side AC entry options		
	AC Surge Protection (option)		
	DC Load Center:		
	600A bulk feed bus bar		
	(4) 200A bolt in battery breakers		
Standard equipment	(4) 2-hole lug landings,(2 output/2 input from second battery cabinet)		
	Temp Probes		
	Battery Trays:		
	(4) battery trays		
	(4)-48V battery strings (210Ah max each)		
	Connection kit:		
	(1) DC 10A Breaker supplied (install onto HPL3 Power Cabinet)		
	LED interior cabinet light		
	(2) DC powered Axial fans with (1) F5 Filters		
Front Door:	Door intrusion alarm		
	(1) 1000W AC powered heaters		
5. Ordering information	n		
Cabinet	ESOF015-ECV04 Large Battery 3 (LB3) Cabinet		
Plinth, 6"	37993318816900-S Plinth for V1/V2, HPL2, HPL3, LB2 and LB3		

*All specifications are subject to change without prior notice.



www.deltaww.com

LARGE BATTERY 3 CABINET MANUFACTURER DETAIL - FOR REFERENCE ONL

SCALE: N.T.S.

C

NELTA

Smarter. Greener. Together.

RELEASED FOR CONSTRUCTION As Noted on Plans Review		
elopment Services Department Lee's Summit, Missouri 11/17/2021		
i te : w.com		
versolutions.com		
<i>merica & Canada:</i> pnics (USA) Inc.		
no Parkway exas) 75074		
exas) 73074		
les@deltaww.com		
ders@deltaww.com		
A-08 option 3		
08 option 3)		
pport@deltaww.com		
es: rvices@deltaww.com		
/A@deltaww.com		
No. of Street, of Street, or Stre		
P P		
00		
00		
00		
00		
00		
	LARGE BATTER	Υ :
	LARGE BATTER CABINET	Y:
	CABINET	



HP-Large 3 Power Cabinet

Product Features

Compact design for equipment, power and battery:

- · 30RU supports 3 radios and transport equipment
- 600A @ -48V power system
- · Slimline high efficiency rectifier
- ORION Touch screen Controller
- Rear Access Hatch

Direct air cooling solution, 6000W capacity, 5°C delta T Easy slide-in filter replacement for Merv-13 or Gore filter connects with:

- SB3, 2-string battery cabinet
- LB3, 4-string battery cabinet
- V2, Expansion equipment and battery cabinet Designed to GR-487 specifications

www.deltaww.com





Specifications

Model	HP-Large 3 Power Cabinet
1. General	
Construction	Aluminum enclosure
Dimensions (WxHxD)	30 x 72 x 36 in. (762 x 1829 x 914 mm), Depth with door: 43 in. (1092 mm)
Weight	~551 lbs (~270kg) (without customer equipment or batteries)
nternal rack dimension	Total Equipment space, 30RU: Horizontal rack: 19" x 27RU Vertical rack: 19" x 3RU
	Power System space: 23" x 12RU
Mounting options	Pad-mount, plinth option
Finish	Polyester Powder Paint (Tan)
Safety	UL Listed , IEC / EN 60950
2. Environment	
Operating temperature	-40° C to +50° C (-40° F to +122° F) with solar load. IP55
Protection class	designed to GR-487
Acoustics	5°C delta T: 70 dBA @ 6000W/, 65dBA @5000W heat load
Humidity (relative)	95%,non-condensing (Max.)
3. Thermal management	
Cooling Equipment:	Direct Air Cooling, 6000W capacity, 5°C delta T (6) centrifugal redundant fans, (3) Merv-13 or optional GORE filters front door (3) Merv-13 filters Rear hatch
Heating Equipment:	Forcedair heating (2) 1000W AC heaters
4. Equipment	
	Knock-out plate on each upper side wall
Cable Entry	Additional knockouts each side

RELEASED FOR CONSTRUCTION As Noted on Plans Review **Development Services Department** Lee's Summit, Missouri

11/17/2021

- Equipment				
	Kn	ock-out plate on e	each upper side wall	
Cable Entry	Ac	ditional knockout:	s each side	
	(1)	3" conduit hole w	with hole plug	
Door latch	30	oint latching, 5/10	6 nut driver tool, pad-locking capability	
Primary ground		a bene ar to be and a sector because of the sector of the sector of	0 threaded holes on 5/8" center ground bar	
Lifting Ears	4 L	ifting Tabs		
Standard equipme	ant AC	LoadCenter: 240	DV split phase, dual feed / (1) 200A + (1)100A	
		208	BV 3-phase, single feed / (1) 200A	
	AC	Surge Protection	for each breaker feed	
	GF	CI Receptacle 12	0V	
	(6	form-C) Alarm Te	rmination block	
	(1)	Thermal Probe		
	60:	5A/ 54V (336kW)	redundant Power System with DIN rail distribution:	
		12 rectifier position	ns (3x55A DPR3000 rectifiers included)	
		52 poles for load (2x10A, 3x50A, and 6x100A load breakers included)	
		16 poles for batter	y	
		(2) SB350 generat		
		LVD over-ride swi		
		(2) SB175 Battery		
		(2) SB350 Battery	connections	
	Front Door:	(6) DC powered of	centrifugal fans with (3) MERV-13 filters, (GORE option)	
		Clogged Filter alarm pressure switch		
		Door intrusion alarm		
		(2) 1000W AC powered heaters		
		LED interior cabi	inet light	
	Rear Hatch:	Exhaust vent with	h (3) MERV-13 filters	
5. Ordering infor	mation			
Cabinet	ES	OA600-HCU01	HP-Large 3 600A Power / Equipment Cabinet	
Rectifier	ES	R-48/60A A-T	48V / 56A 3000W, 96.4%, CAN communication	
Controller (Spare)	TP	S1020028AU17	Orion TOUCH Controller	

37993318816900-S Plinth for V1/V2, HPL2, HPL3, LB2 and LB3 cabinets

Delta Group Website:

www.deltapowersolutions.com United States of America & Canada: Delta Electronics U.S. Inc. 2925 E. Plano Parkway Plano, TX (Texas) 75074 Sales and Support:

Sales: DEUSTPS.Sales@deltaww.com Orders: DEUSTPS.Orders@deltaww.com

DEUSTPS.Services@deltaww.com

DEUSTPS.RMA@deltaww.com

1-877-DELTA-08 option 3 (877-335-8208 option 3) DEUSTPS.Support@deltaww.com

www.deltaww.com

Product Website:

Field Support:

RMA:

env0.58

Installation Services:

Front Door and Rear Hatch Open

HP-LARGE 3 POWER CABINET MANUFACTURER DETAIL - FOR REFERENCE ONLY

Plinth, 6"

SCALE: N.T.S.



*All specifications are subject to change without prior notice.

SHEET NUMBER:

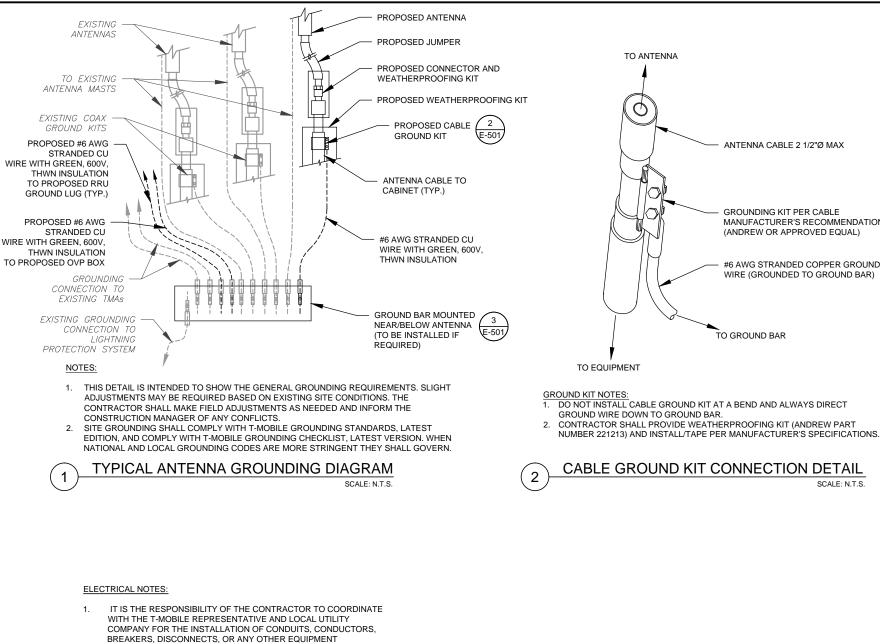
REVISION:

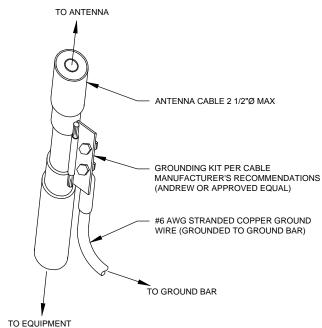
CABINET MANUFACTURER DETAIL

C-504

0

HP-LARGE 3 POWER





3/8" X 1-1/2" SS BOLT

(EACH SIDE)

GROUND BAR NOTES:

3

SCALE: N.T.S.

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

TOWER GROUND BAR DETAIL

(EACH SIDE)

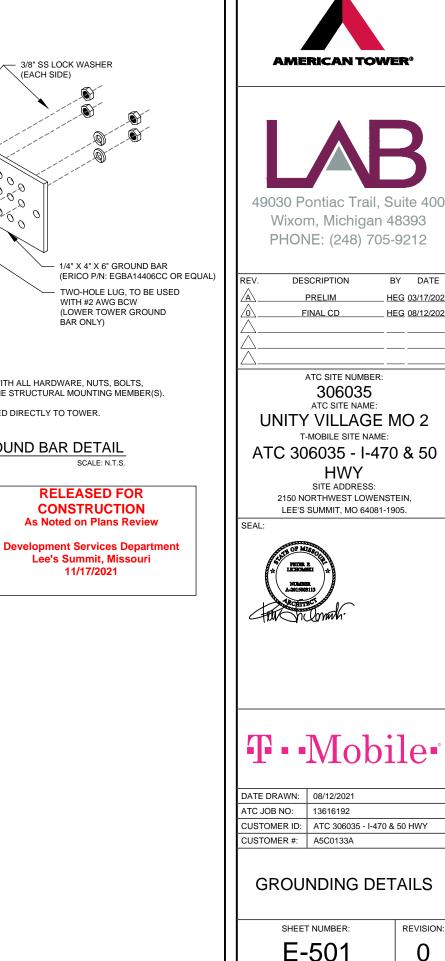
- REQUIRED FOR ELECTRICAL SERVICE. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF THE STATE AND NATIONAL CODES, ORDINANCES AND REGULATIONS APPLICABLE TO THIS PROJECT.
- ATC HAS NOT VERIFIED ANY EXISTING T-MOBILE GROUND 2. EQUIPMENT OR ELECTRICAL LOADING. PROPOSED WORK BASED ON INSTALLATION CONFIGURATION PROVIDED BY T-MOBILE. CONTRACTOR TO VERIFY EXISTING T-MOBILE PANEL HAS SUFFICIENT SPACE FOR PROPOSED BREAKER. PROPOSED CABLE AND CONDUIT SHALL BE MINIMUM SIZE PER BELOW IN CHART.
- FOR SPECIFIC CABINET / ANCILLARY EQUIPMENT WIRING 3. REQUIREMENTS, THE T-MOBILE CONTRACTOR SHOULD REFERENCE DESIGN DOCUMENTS PROVIDED BY T-MOBILE FOR THIS CURRENT PROJECT CONFIGURATION, IN ACCORDANCE WITH LOCAL JURISDICTION REQUIREMENTS & NEC STANDARDS & PRACTICES

OCPD SIZE	WIRE SIZE	GROUND SIZE	CONDUIT SIZE
80A/2P	2#3 AWG	#8 AWG	1-1/4"
100/2P	2#2 AWG	#8 AWG	1-1/4"
125A/2P	2#1 AWG	#8 AWG	1-1/2"
150A/2P	2#1/0 AWG	#8 AWG	1-1/2"

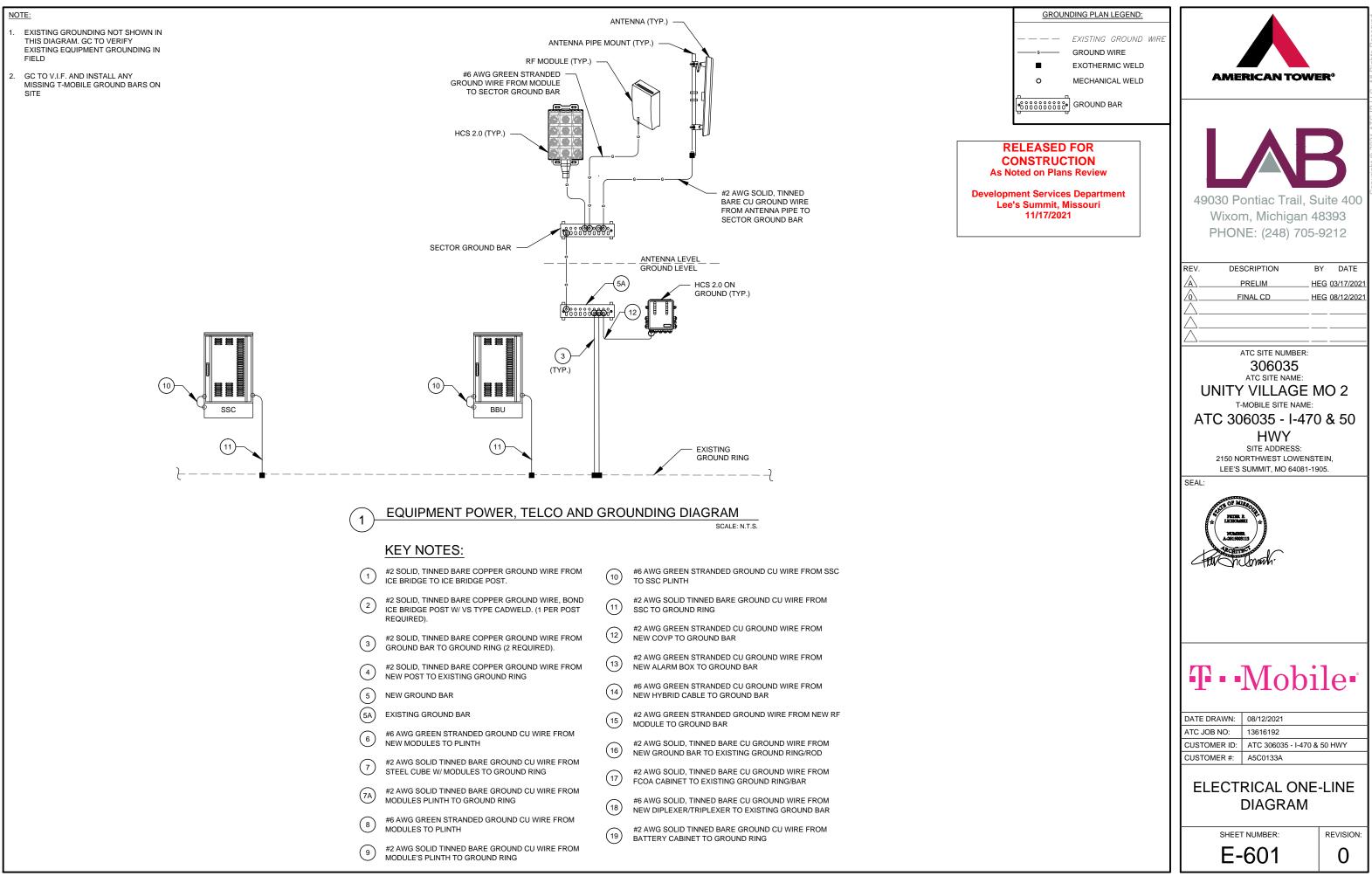
BY DATE

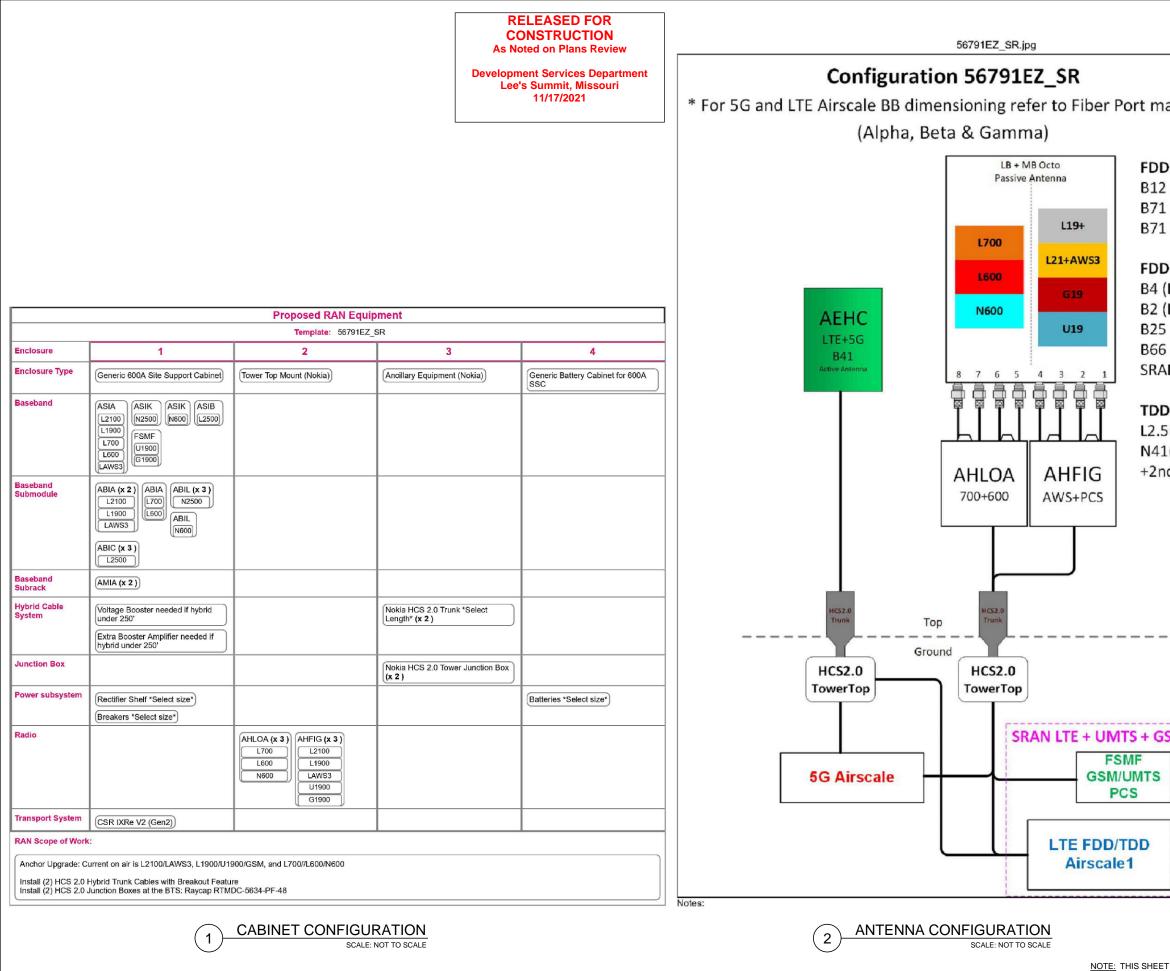
HEG 03/17/202

HEG 08/12/202

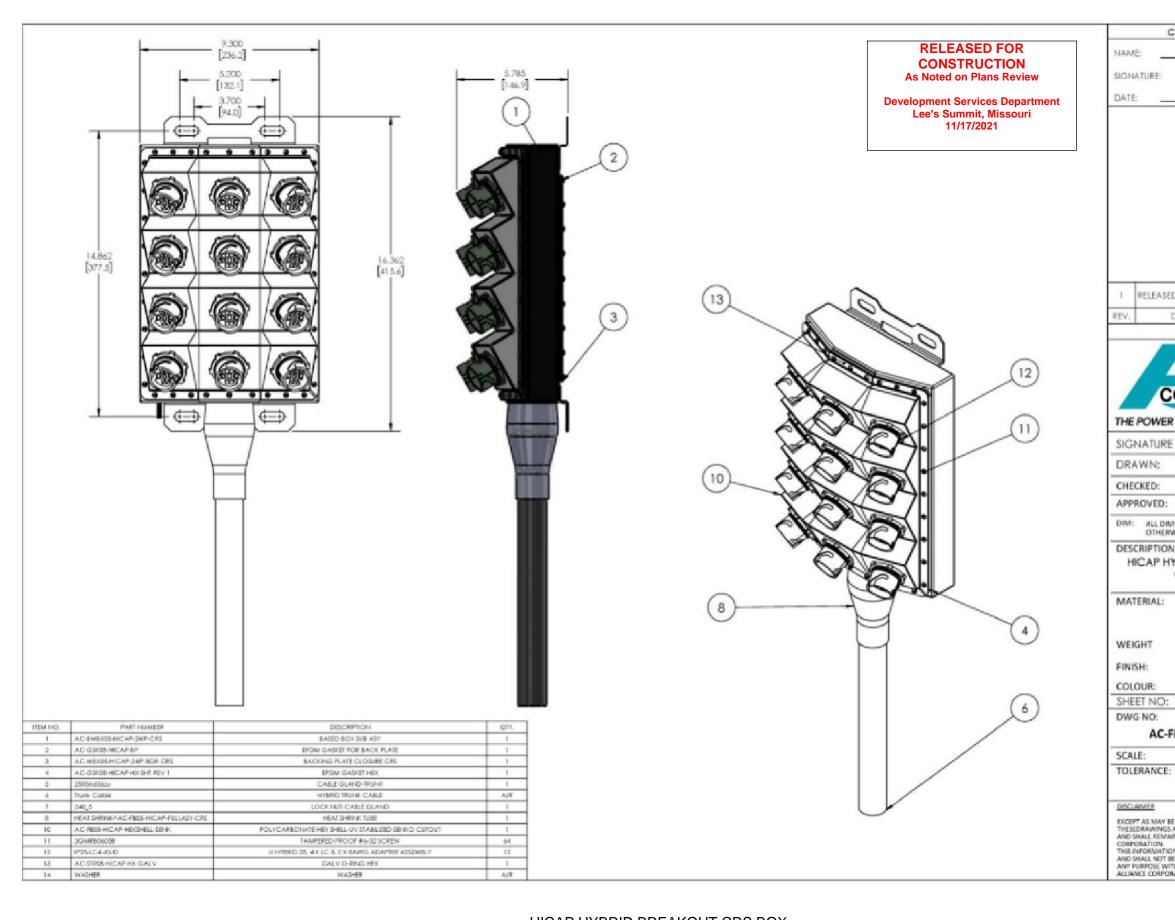


REVISION 0





natrices.			
D - Lowband 2 (L700) – 5 MHz 1 (L600) –10 MHz 1 (N600) – 10 MHz			
D - Midband (L2100) – 20 MHz (L1900) – 20 MHz 5 (L1900) – 20 MHz 6 (AWS3) – 5MHz AN – GSM/UMTS PCS			
D - Band 41 .5(2.5GHz)– 60 MHz 1(2.5GHz) – 100MHz nd carrier (<=80MHz)			
SSM			
	SUPPL	EMENT	AL
ET CREATED BY OTHERS AND PROVIDED EST OF CUSTOMER WITHOUT EDIT.	SHEET NUM		REVISION:



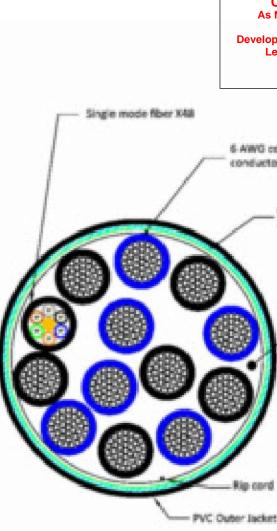
HICAP HYBRID BREAKOUT CRS BOX (FULL ASSEMBLY)

	STOMER APPROV	4L
D	FOR PRODUCTION	1. 20180530
DĒ	REVISIONS	DATE
	YCLE	DATE
	MLE	20180525
	DOB	20180529
	DOB	20180530
	RID BREAKOUT	
(F	ULL ASSEMBLY	
(F)
	ULL ASSEMBLY)
	CR STEEL A 100B C) cs
	CR STEEL A 100B C 8.76 POWDER COATE BLACK) cs
	CR STEEL A 100B C 8.76 POWDER COATE) cs
	CR STEEL A 100B C 8.76 POWDER COATE BLACK) CS D
FB	ULL ASSEMBLY CR STEEL A 100B C 8.76 POWDER COATE BLACK 1 OF 1 05-HICAP-FUL X.X ± 0.020 X.XX ± 0.020) CS D LASY-CRS
FB	ULL ASSEMBLY CR STEEL A 100B C 8.76 POWDER COATE BLACK 1 OF 1 05-HICAP-FUL X.X ± 0.020 X.XX ± 0.005 THERWISE PROVIDED BL) 23 D LASY-CRS P P P P P P P P P P P P P
FBI	ULL ASSEMBLY CR STEEL A 100B C 8.76 POWDER COATE BLACK 1 OF 1 05-HICAP-FUL X.X ± 0.020 X.XX ± 0.020 X.XX ± 0.020 X.XX ± 0.020) 23 D LASY-CRS P P P P P P P P P P P P P
FBI	ULL ASSEMBLY CR STEEL A 100B C 8.76 POWDER COATE BLACK 1 OF 1 05-HICAP-FUL X.X ± 0.020 X.XX ± 0.000 THERWISE PROVIDED B D SPECIFICATIONS ARE 1 OF 0 SEEING ISSUED IN STRIK SEEING ISSUED IN STRIK SEEING ISSUED IN STRIK SEEING ISSUED IN STRIK) 25 D LASY-CRS P P P P P P P P P P P P P
FBI SAN MINT ON IT HO MAT	ULL ASSEMBLY CR STEEL A 100B C 8.76 POWDER COATE BLACK 1 OF 1 05-HICAP-FUL X.X ± 0.020 X.XX ± 0.000 THERWISE PROVIDED B D SPECIFICATIONS ARE 1 OF 0 SEEING ISSUED IN STRIK SEEING ISSUED IN STRIK SEEING ISSUED IN STRIK SEEING ISSUED IN STRIK) CS D LLASY-CRS P P P P P P P P P P P P P

SHEET NUMBER:
R-602

SUPPLEMENTAL

MECHANICAL	JACKET COLOR	BLACK
	OUTER DIAMETER (IN)	1.46
	MIN BENDING RADIUS(IN), MULTIPLE BENDS, LOADED	29.2
	MIN BENDING RADIUS(IN), MULTIPLE BENDS, UNLOADED	14.6
	MIN BENDING RADIUS(IN), SINGLE BEND, UNLOADED	10.22
	MIN BENDING RADIUS(IN), FURCATION	1.2
	ARMOR	CORRUGATED COPPER
	WEIGHT(Ib/kft)	1610
	COMPRESSION(Ib/IN)	250
	TENSILE LOAD, LONG TERM(Ibf)	180
	TENSILE LOAD, SHORT TERM(Ibf)	600
ELECTRICAL	CONDUCTOR MATERIAL	COPPER
	CONDUCTOR CONSTRUCTION	STRAND
	CONDUCTOR COLOR	BLUE/BLACK
	RESISTIVITY(nO @20°C)	16.78 nohm-M
	CONDUCTORS, QTY	12
	CONDUCTOR SIZE(AWG)	6
	EMI SHIELD	YES
	UL RATING	ULTC-OF-ER
OPTICAL	FIBER TYPE	SINGLE MODE (G.657.A2
	FIBERS, QTY	48
	ATTENUATION(dB/km), MAX, 1550/1285-1330 nm	0.5
	DISPERSION, MAX, 1550/1285-1330 nm	18 ps/3.5 ps
	RETURN LOSS(dB)	>50
	INSERTION LOSS(d8), POST ENVIRONMENTAL	REDUCTION < 0.65
	RETURN LOSS(dB), POST ENVIRONMENTAL	REDUCTION < 5
	CUTOFF WAVELENGTH(nm)	1260
	PIGTAIL TERMINATION	LC PAIR, STRAIGHT
ENVIRON	OPERATING TEMP("F)	-40 TO +167
	STORAGE TEMP(*F)	-40 TO +167
	UV	IEC 60068-2-5
	THERMAL CYCLE	IEC 60068-2-14
	VIBRATION	IEC 60068-2-64
	IMPACT(ft lb)	4.4 NM PER ICEA696



NOTE: CABLE CROSS-SECTION NOT DRAV

RELEASED FOR CONSTRUCTION		keserved.	
Noted on Plans Review		Rights R	
ppment Services Department .ee's Summit, Missouri 11/17/2021		Copyright © 2021 ATC IP LLC, All Rights Reserved.	
		2021 ATC I	
cropgiver		right © 2	
or × 12		Copy	
Corrugated Copper Armor			
Flame Resistant			
Fillers			
4			
et			
WN TO SCALE			
	SUPPLEMENT	AL	
T CREATED BY OTHERS AND PROVIDED	SHEET NUMBER: R-603		
ST OF CUSTOMER WITHOUT EDIT.			



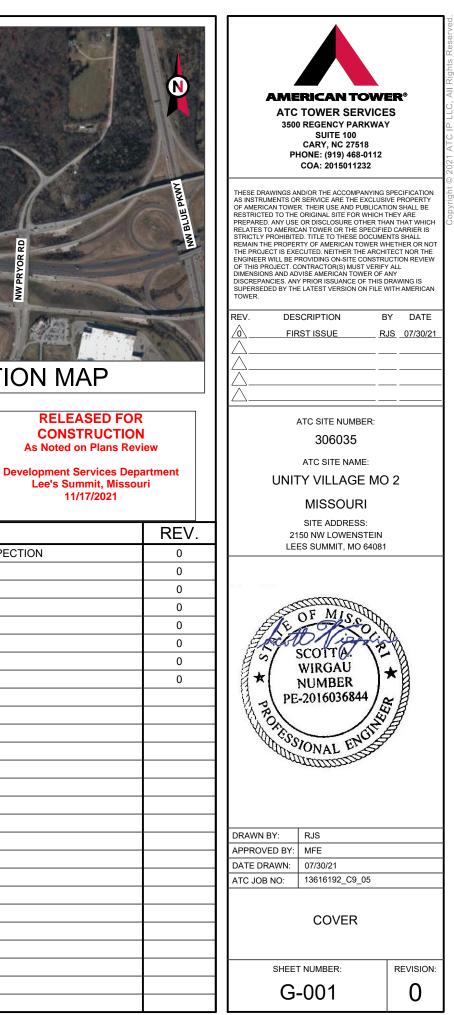


SITE NAME: UNITY VILLAGE MO 2 SITE NUMBER: 306035 ATC PROJECT NUMBER: 13616192 C9 05 SITE ADDRESS: 2150 NW LOWENSTEIN LEES SUMMIT, MO 64081



MOUNT REINFORCEMENT DRAWINGS **PREPARED FOR T-MOBILE**

PROJECT TEAM	PROJECT DESCRIPTION	SHEET	SHEET TITLE
		G-002	IBC GENERAL NOTES AND MOUNT MODIFICATION INSPECTION
TOWER OWNER	THE PROJECT DEPICTED IN THESE PLANS ARE BASED ON THE RECOMMENDATIONS OUTLINED IN THE STRUCTURAL ANALYSIS COMPLETED	S-101	MODIFICATION PROFILE
AMERICAN TOWER	UNDER ENGINEERING PROJECT NUMBER 13616192_C8_01 DATED 06/28/21. SATISFACTORY COMPLETION OF THE WORK INDICATED IN THESE PLANS WILL	S-102	SAFETY CLIMB LAYOUT
10 PRESIDENTAL WAY	RESULT IN THE STRUCTURE MEETING THE REQUIREMENTS OF THE SPECIFICATIONS UNDER WHICH THE STRUCTURAL WAS COMPLETED.	R-601	SUPPLEMENTAL
WOBURN, MA 01801		R-602	SUPPLEMENTAL
	PROJECT NOTE	R-901	SUPPLEMENTAL
ENGINEERED BY		R-902	SUPPLEMENTAL
ATC TOWER SERVICES	THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED REVIEW UNDER 47 U.S.C.	R-903	SUPPLEMENTAL
3500 REGENCY PARKWAY, SUITE 100	§ 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT INVOLVES THE COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF		
CARY, NC 27518	TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR § 1.6100 (B)(7).		
CARRIER INFORMATION	COMPLIANCE CODE		
CARRIER: T-MOBILE			
CARRIER SITE NAME: ATC 306035 - I-470 & 50 HWY	ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS		
CARRIER SITE NUMBER: A5C0133A	ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE		
	CODES.		
	1. ANSI/TIA/EIA: STRUCTURAL STANDARDS (222-H EDITION)		
	2. INTERNATIONAL BUILDING CODE (2009 IBC)		
	PROJECT LOCATION		
	GEOGRAPHIC COORDINATES		
Know what's below. Call be fore you dig.			
Cali before you dig.	LATITUDE: 38.93361269		
	LONGITUDE: -94.41749129		

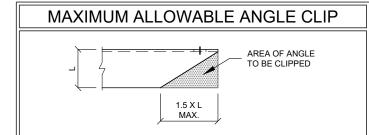


GENERAL

- ALL WORK TO BE COMPLETED PER APPLICABLE LOCAL STATE FEDERAL CODES AND ORDINANCES AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS FOR WIRELESS TOWER SITES. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND ABIDING BY ALL REQUIRED PERMITS
- ALL WORK INDICATED ON THESE DRAWINGS SHALL BE PERFORMED BY QUALIFIED 2. CONTRACTORS EXPERIENCED IN TOWER AND FOUNDATION CONSTRUCTION.
- 3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IMMEDIATELY OF ANY INSTALLATION INTERFERENCES. ALL NEW WORK SHALL ACCOMMODATE EXISTING CONDITIONS DETAILS NOT SPECIFICALLY SHOWN ON THE DRAWINGS SHALL FOLLOW SIMILAR DETAILS FOR THIS JOB.
- ANY SUBSTITUTIONS SHALL CONFORM TO THE REQUIREMENTS OF THESE NOTES AND 4. SPECIFICATIONS, AND SHOULD BE SIMILAR TO THOSE SHOWN. ALL SUBSTITUTIONS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO FABRICATION
- ANY MANUFACTURED DESIGN ELEMENTS SHALL CONFORM TO THE REQUIREMENTS OF 5. THESE NOTES AND SPECIFICATIONS AND SHOULD BE SIMILAR TO THOSE SHOWN. THESE DESIGN ELEMENTS MUST BE STAMPED BY AN ENGINEER PROFESSIONALLY REGISTERED IN THE STATE OF THE PROJECT, AND SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO FABRICATION.
- 6. ALL WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL CODES AND OSHA SAFETY REGULATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND EXECUTION OF ALL MISCELLANEOUS SHORING, BRACING, TEMPORARY SUPPORTS, ETC. NECESSARY, PER ANSI/TIA-322 AND ANSI/ASSE A10.48. TO PROVIDE A COMPLETE AND STABLE STRUCTURE AS SHOWN ON THESE DRAWINGS.
- CONTRACTOR'S PROPOSED INSTALLATION SHALL NOT INTERFERE, NOR DENY ACCESS TO ANY EXISTING OPERATIONAL AND SAFETY FOUIPMENT

STRUCTURAL STEEL

- ALL DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AISC SPECIFICATIONS LATEST EDITION
- 2. ALL EXPOSED STRUCTURAL STEEL MEMBERS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A123. EXPOSED STEEL HARDWARE AND ANCHOR BOLTS SHALL BE GALVANIZED PER ASTM A153 OR B695.
- ALL U-BOLTS SHALL BE ASTM A36 OR EQUIVALENT, WITH LOCKING DEVICE, UNLESS 3 NOTED OTHERWISE.
- 4. FIELD CUT EDGES, EXCEPT DRILLED HOLES, SHALL BE GROUND SMOOTH.
- ALL FIELD CUT SURFACES, FIELD DRILLED HOLES & GROUND SURFACES WHERE EXISTING PAINT OR GALVANIZATION REMOVAL WAS REQUIRED SHALL BE REPAIRED WITH (2) BRUSHED COATS OF ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.
- ALL STRUCTURAL STEEL EMBEDDED IN THE CONCRETE SHALL BE APPLIED WITH (2) BRUSHED COATS OF POLYGUARD CA-14 MASTIC OR FOUNVALENT, REFER TO THE MANUFACTURER SPECIFICATIONS FOR SURFACE PREPARATION AND APPLICATION. APPLICATION OF POLYGUARD 400 WRAP IS NOT ESSENTIAL
- CONTRACTOR SHALL PERFORM WORK ON ONLY ONE (1) TOWER FACE AND REPLACE/REINFORCE ONE (1) BOLT/MEMBER AT A TIME.
- 8. ALL FIELD DRILLED HOLES TO BE USED FOR FIELD BOLTING INSTALLATION SHALL BE STANDARD HOLES, AS DEFINED BY AISC, UNLESS NOTED OTHERWISE.



PAINT

AS REQUIRED CLEAN AND PAINT PROPOSED STEEL ACCORDING TO FAA ADVISORY CIRCULAR AC 70/7460-1L

WELDING

- 1. ALL WELDING TO BE PERFORMED BY AWS CERTIFIED WELDERS AND CONDUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS WELDING CODE D1.1.
- 2. ALL WELDS SHALL BE INSPECTED VISUALLY. IF DIRECTED BY ENGINEER OF RECORD, 25% OF WELDS SHALL BE INSPECTED WITH DYE PENETRANT OR MAGNETIC PARTICLE (100% IF REJECTABLE DEFECTS ARE FOUND) TO MEET THE ACCEPTANCE CRITERIA OF AWS D1.1. REPAIR ALL WELDS AS NECESSARY.
- 3. INSPECTION SHALL BE PERFORMED BY AN AWS CERTIFIED WELD INSPECTOR.
- 4. ALL ELECTRODES TO BE LOW HYDROGEN, MATCHING FILLER AND/OR BASE METAL, PER AWS D1.1, UNLESS NOTED OTHERWISE
- 5. IN CASES WHERE BASE METAL GRADE IS UNKNOWN, ALL WELDING ON LATTICE TOWERS SHALL BE DONE WITH E70XX ELECTRODES; ALL WELDING ON POLE STRUCTURES SHALL BE DONE WITH E80XX FLECTRODES UNLESS NOTED OTHERWISE
- 6. PRIOR TO FIELD WELDING GALVANIZED MATERIAL, CONTRACTOR SHALL GRIND OFF GALVANIZING 1/2" BEYOND ALL FIELD WELD SURFACES. AFTER WELD AND WELD INSPECTION IS COMPLETE, REPAIR ALL GROUND AND WELDED SURFACES WITH ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.

BOLT TIGHTENING PROCEDURE

- 1. STRUCTURAL CONNECTIONS TO BE ASSEMBLED AND INSPECTED IN ACCORDANCE WITH RCSC SPECIFICATIONS.
- 2 FLANGE BOLTS SHALL BE INSTALLED AND TIGHTENED USING DIRECT TENSION INDICATING (DTI) SQUIRTER WASHERS. DTI SQUIRTER WASHERS ARE TO BE INSTALLED AND ORIENTED / TIGHTENED PER MANUFACTURER SPECIFICATIONS TO ACHIEVE DESIRED LEVEL OF BOLT PRE-TENSION.
- 3. IN LIEU OF USING DTI SQUIRTER WASHERS, FLANGE BOLTS MAY BE TIGHTENED USING AISC / RCSC "TURN-OF-THE-NUT" METHOD, PENDING APPROVAL BY THE ENGINEER OF RECORD (EOR). TIGHTEN FLANGE BOLTS USING THE CHART BELOW:

BOLT LENGTHS UP TO AND INCLUDING FOUR DIAMETERS

1/2"	BOLTS UP TO AND INCLUDING 2.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
5/8"	BOLTS UP TO AND INCLUDING 2.5 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
3/4"	BOLTS UP TO AND INCLUDING 3.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
7/8"	BOLTS UP TO AND INCLUDING 3.5 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1"	BOLTS UP TO AND INCLUDING 4.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1-1/8"	BOLTS UP TO AND INCLUDING 4.5 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1-1/4"	BOLTS UP TO AND INCLUDING 5.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT

- 1-3/8" BOLTS UP TO AND INCLUDING 5.5 INCH LENGTH +1/3 TURN BEYOND SNUG TIGHT
- 1-1/2" BOLTS UP TO AND INCLUDING 6.0 INCH LENGTH +1/3 TURN BEYOND SNUG TIGHT

BOLT LENGTHS OVER FOUR DIAMETERS BUT NOT EXCEEDING EIGHT DIAMETERS

1/2"	BOLTS 2.25 TO 4.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
5/8"	BOLTS 2.75 TO 5.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
3/4"	BOLTS 3.25 TO 6.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
7/8"	BOLTS 3.75 TO 7.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1"	BOLTS 4.25 TO 8.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1-1/8"	BOLTS 4.75 TO 9.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1-1/4"	BOLTS 5.25 TO 10.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1-3/8"	BOLTS 5.75 TO 11.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1-1/2"	BOLTS 6.25 TO 12.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT

MODIFICATION INSPECTION NOTES

THE MOUNT MODIFICATION INSPECTION (MMI) PROCEDURE IS INTENDED TO CONFIRM THAT CONSTRUCTION AND INSTALLATION MEETS ENGINEERING DESIGN, ATC PROCEDURES AND ATC STANDARD SPECIFICATIONS FOR WIRELESS TOWER SITES.

TO ENSURE THAT THE REQUIREMENTS OF THE MMI ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR SUBMIT ALL REQUIRED PHOTOGRAPHS AND DRAWINGS TO AMERICAN TOWER CORPORATION (ATC).

BOLT TIGHTENING PROCEDURE (CONTINUED

SPLICE BOLTS SUBJECT TO DIRECT TENSION SHALL BE INSTA SECTION 8.2.1 OF THE AISC "SPECIFICATION FOR STRUCTURA BOLTS", LOCATED IN THE AISC MANUAL OF STEEL CONSTRUC PROCEDURE IS PARAPHRASED AS FOLLOWS.

FASTENERS SHALL BE INSTALLED IN PROPERLY ALIGNED H OF THE METHODS DESCRIBED IN SUBSECTION 8.2.1 THROU

8.2.1 TURN-OF-NUT PRETENSIONING

BOLTS SHALL BE INSTALLED IN ALL HOLES OF THE CONNECT SNUG TIGHT CONDITION AS DEFINED IN SECTION 8.1. UNTIL SIMULTANEOUSLY SNUG TIGHT AND THE CONNECTION IS I FOLLOWING THIS INITIAL OPERATION ALL BOLTS IN THE CO TIGHTENED FURTHER BY THE APPLICABLE AMOUNT OF RO DURING THE TIGHTENING OPERATION THERE SHALL BE NO TURNED BY THE WRENCH. TIGHTENING SHALL PROGRESS

5. ALL OTHER BOLTED CONNECTIONS SHALL BE BROUGHT TO A IN SECTION 8.1 OF THE SPECIFICATION.

ALL BOLT HOLES SHALL BE ALIGNED TO PERMIT INSERTION UNDUE DAMAGE TO THE THREADS. BOLTS SHALL BE PLAC WASHERS POSITIONED AS REQUIRED AND NUTS THREADE ASSEMBLY. COMPACTING THE JOINT TO THE SNUG-TIGHT SYSTEMATICALLY FROM THE MOST RIGID PART OF THE JOI CONDITION IS THE TIGHTNESS THAT IS ATTAINED WITH A FI WRENCH OR THE FULL EFFORT OF AN IRONWORKER USING TO BRING THE CONNECTED PLIES INTO FIRM CONTACT.

REL
CON
As Note

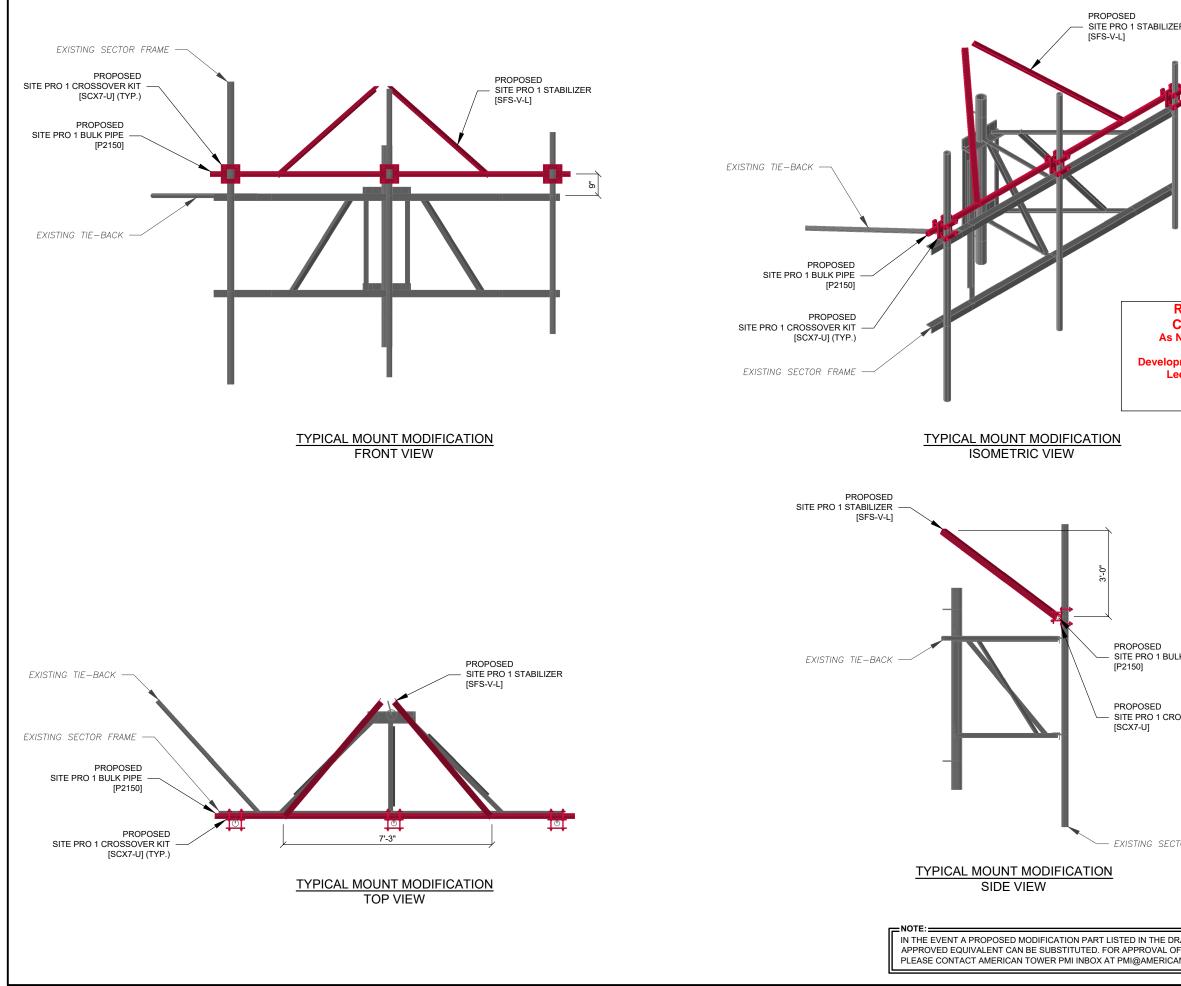
Developmer Lee's S

GENERAL CONTRACTOR

- THE GENERAL CONTRACTOR IS REQUIRED TO:
- REVIEW THE REQUIREMENTS OF THE MMI CHECKL
- UNDERSTAND ALL INSPECTION REQUIREMENTS.
- THE GENERAL CONTRACTOR SHALL PERFORM AND REC ACCORDANCE WITH THE REQUIREMENTS OF THE MMI C

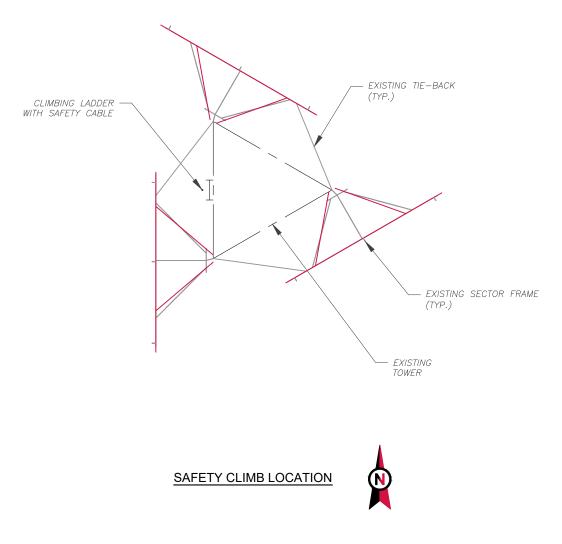
11			
		MOUNT MODIFICATION INSPECTION CHECKLIST	
	INSPECTION DOCUMENT	DESCRIPTION	INSP
	ON-SITE COLD GALVANIZING VERIFICATION	PHOTOGRAPHIC EVIDENCE OF COLD GALVANIZATION TYPE AND APPLICATION IN ALL APPLICABLE LOCATIONS TO BE INCLUDED WITHIN THE MMI REPORT	
	GC AS-BUILT DRAWINGS WITH CONSTRUCTION RED-LINES	"AS-BUILT" DRAWINGS INDICATING ANY APPROVED CHANGES TO ENGINEERED PLANS TO MMI FOR APPROVAL/REVIEW AND INCLUSION IN MMI REPORT	
,	PHOTOGRAPHS	PHOTOGRAPHIC EVIDENCE OF MOUNT MODIFICATION INSPECTION, ON SITE REMEDIATION, AND ITEMS FAILING INSPECTION & REQUIRING FOLLOW UP TO BE INCLUDED WITHIN THE MMI REPORT. COMPLETE PHOTO LOG IS TO BE SUBMITTED WITHIN MMI REPORT.	
	TABLE KEY: MMI - MOUNT MODIFICATION INSPECTION GC - GENERAL CONTRACTOR ATC - AMERICAN TOWER CORPORATION		

)				
L				
LLED AND TIGHTE				
TION. THE INSTAL				
HOLES AND TIGHTE			RICAN TOW	ER ® Es
JGH 8.2.4.	ENED BY ONE	ATC	TOWER SERVICE	S
5611 0.2.4.		3500	REGENCY PARKWA	Y
			SUITE 100 CARY, NC 27518	
CTION AND BROUG	GHT TO A	Pł	IONE: (919) 468-0112	
L ALL THE BOLTS A	ARE		COA: 2015011232	
FULLY COMPACTE				
NNECTION SHALL			ND/OR THE ACCOMPANYING	SPECIFICATION
TATION SPECIFIED ROTATION OF TH	-		R SERVICE ARE THE EXCLUS R. THEIR USE AND PUBLICAT	
SYSTEMATICALLY			ORIGINAL SITE FOR WHICH OR DISCLOSURE OTHER TH	THEY ARE AN THAT WHICH
		RELATES TO AMERIC	AN TOWER OR THE SPECIFIE D. TITLE TO THESE DOCUME	ED CARRIER IS
SNUG TIGHT CON	DITION AS DEFINED	REMAIN THE PROPER	RTY OF AMERICAN TOWER W	HETHER OR NOT
		ENGINEER WILL BE P	CUTED. NEITHER THE ARCH ROVIDING ON-SITE CONSTR	UCTION REVIEW
N OF THE BOLTS W		OF THIS PROJECT. C DIMENSIONS AND AD	ONTRACTOR(S) MUST VERIF VISE AMERICAN TOWER OF	Y ALL ANY
ED IN ALL HOLES		DISCREPANCIES. AN	PRIOR ISSUANCE OF THIS I	DRAWING IS
D TO COMPLETE T		TOWER.		
CONDITION SHALL				
INT. THE SNUG-TIO	GHTENED			BY DATE
EW IMPACTS OF A			ST ISSUE R	JS 07/30/21
G AN ORDINARY SE	PUD WRENCH	Δ		
		\square		
EASED FOR				
STRUCTION		└────		
d on Plans Revi				
			ATC SITE NUMBER:	
t Services Depa	artment		306035	
Summit, Missou				
11/17/2021			ATC SITE NAME:	
		UNIT	Y VILLAGE MC	2
				-
			MISSOURI	
			SITE ADDRESS:	
		21	50 NW LOWENSTEIN	
			ES SUMMIT, MO 64081	
			,,	
		No. M. Marcola		
			TUTUTU	
		LA S	OF MISC	
		EK.	Cherry Cherry	
		260	Dieen	
		Price .	SCOTTA.	NA I
			WIRGAU	. 8
				★12
			NUMBER	
		PE V S	-2016036844	¥8
		18 2		
		N W		
				A I
		C'SS	JONIN EN A	ļ
.IST.		CSS COL	ONAL ENGINE	ļ
.IST.		CSS COLUMN	ONAL END	Į
			VONAL ENDS	Į
CORD THE INSPEC	TION RESULTS IN	ACTES STATE	VONAL END	Į
CORD THE INSPEC	TION RESULTS IN	CCS CCS	VONAL ENOS	Ę
CORD THE INSPEC	TION RESULTS IN		VONAL ENOS	Ę
CORD THE INSPEC	TION RESULTS IN	DRAWN BY:	RJS	
CORD THE INSPEC HECKLIST.		DRAWN BY:	RJS	
CORD THE INSPEC CHECKLIST.	TION RESULTS IN RESPONSIBILITY	DRAWN BY: APPROVED BY:	RJS MFE	<u></u>
CORD THE INSPEC CHECKLIST.	RESPONSIBILITY	DRAWN BY: APPROVED BY: DATE DRAWN:	RJS MFE 07/30/21	
CORD THE INSPEC CHECKLIST.		DRAWN BY: APPROVED BY:	RJS MFE	
CORD THE INSPEC CHECKLIST.	RESPONSIBILITY GC	DRAWN BY: APPROVED BY: DATE DRAWN: ATC JOB NO:	RJS MFE 07/30/21 13616192_C9_05	
CORD THE INSPEC CHECKLIST.	RESPONSIBILITY	DRAWN BY: APPROVED BY: DATE DRAWN: ATC JOB NO: IBC (RJS MFE 07/30/21 13616192_C9_05 GENERAL NOT	 ES
CORD THE INSPEC CHECKLIST.	RESPONSIBILITY GC	DRAWN BY: APPROVED BY: DATE DRAWN: ATC JOB NO: IBC (AND MC	RJS MFE 07/30/21 13616192_C9_05 GENERAL NOT DUNT MODIFIC/	 ES
CORD THE INSPEC CHECKLIST.	RESPONSIBILITY GC	DRAWN BY: APPROVED BY: DATE DRAWN: ATC JOB NO: IBC (AND MC	RJS MFE 07/30/21 13616192_C9_05 GENERAL NOT	 ES
CORD THE INSPEC CHECKLIST.	RESPONSIBILITY GC GC	DRAWN BY: APPROVED BY: DATE DRAWN: ATC JOB NO: IBC (AND MC	RJS MFE 07/30/21 13616192_C9_05 GENERAL NOT DUNT MODIFIC/	 ES
CORD THE INSPEC CHECKLIST.	RESPONSIBILITY GC GC	DRAWN BY: APPROVED BY: DATE DRAWN: ATC JOB NO: IBC (AND MC	RJS MFE 07/30/21 13616192_C9_05 GENERAL NOT DUNT MODIFIC/ INSPECTION	ES
CORD THE INSPEC CHECKLIST.	RESPONSIBILITY GC GC	DRAWN BY: APPROVED BY: DATE DRAWN: ATC JOB NO: IBC (AND MC	RJS MFE 07/30/21 13616192_C9_05 GENERAL NOT DUNT MODIFIC/	 ES
CORD THE INSPEC CHECKLIST.	RESPONSIBILITY GC GC	DRAWN BY: APPROVED BY: DATE DRAWN: ATC JOB NO: IBC (AND MC SHEET	RJS MFE 07/30/21 13616192_C9_05 GENERAL NOT DUNT MODIFIC/ INSPECTION	ES



ER	AMERICAN TO ATC TOWER SERV 3500 REGENCY PARK SUITE 100 CARY, NC 27518 PHONE: (919) 468-0' COA: 2015011232	VICES WAY
	THESE DRAWINGS AND/OR THE ACCOMPAN' AS INSTRUMENTS OR SERVICE ARE THE EX OF AMERICAN TOWER. THEIR USE AND PUBI RESTRICTED TO THE ORGINAL SITE FOR WI- PREPARED. ANY USE OR DISCLOSURE OTHE RELATES TO AMERICAN TOWER OR THE SPE STRICTLY PROHIBITED. TITLE TO THESE DO REMAIN THE PROPERTY OF AMERICAN TOW THE PROJECT IS EXECUTED. NEITHER THE A ENGINEER WILL BE PROVIDING ON-SITE CO OF THIS PROJECT. CONTRACTOR(S) MUST V DIMENSIONS AND ADVISE AMERICAN TOWE DISCREPANCIES. ANY PRIOR ISSUANCE OF I SUPERSEDED BY THE LATEST VERSION ON I TOWER.	LUSIVE PROPERTY LICATION SHALL BE HICH THEY ARE CIFIED CARRIER IS CUMENTS SHALL ER WHETHER OR NOT RCHITECT NOR THE ISTRUCTION REVIEW ERIFY ALL 2 OF ANY HIS DRAWING IS
RELEASED FOR CONSTRUCTION Noted on Plans Review	REV. DESCRIPTION	BY DATE RJS <u>07/30/21</u>
pment Services Department ee's Summit, Missouri 11/17/2021		
	306035 atc site name: UNITY VILLAGE	
	MISSOURI SITE ADDRESS: 2150 NW LOWENSTI LEES SUMMIT, MO 64	
LK PIPE	SCOTTA: WIRGAU NUMBER	*
OSSOVER KIT	ROPE-2016036844	E CONTRACTOR
TOR FRAME	DRAWN BY: RJS APPROVED BY: MFE DATE DRAWN: 07/30/21	
	ATC JOB NO: 13616192_C9_05	
RAWINGS IS NOT AVAILABLE, AN FEQUIVALENT PART OR QUESTIONS ANTOWER.COM.	SHEET NUMBER: S-101	



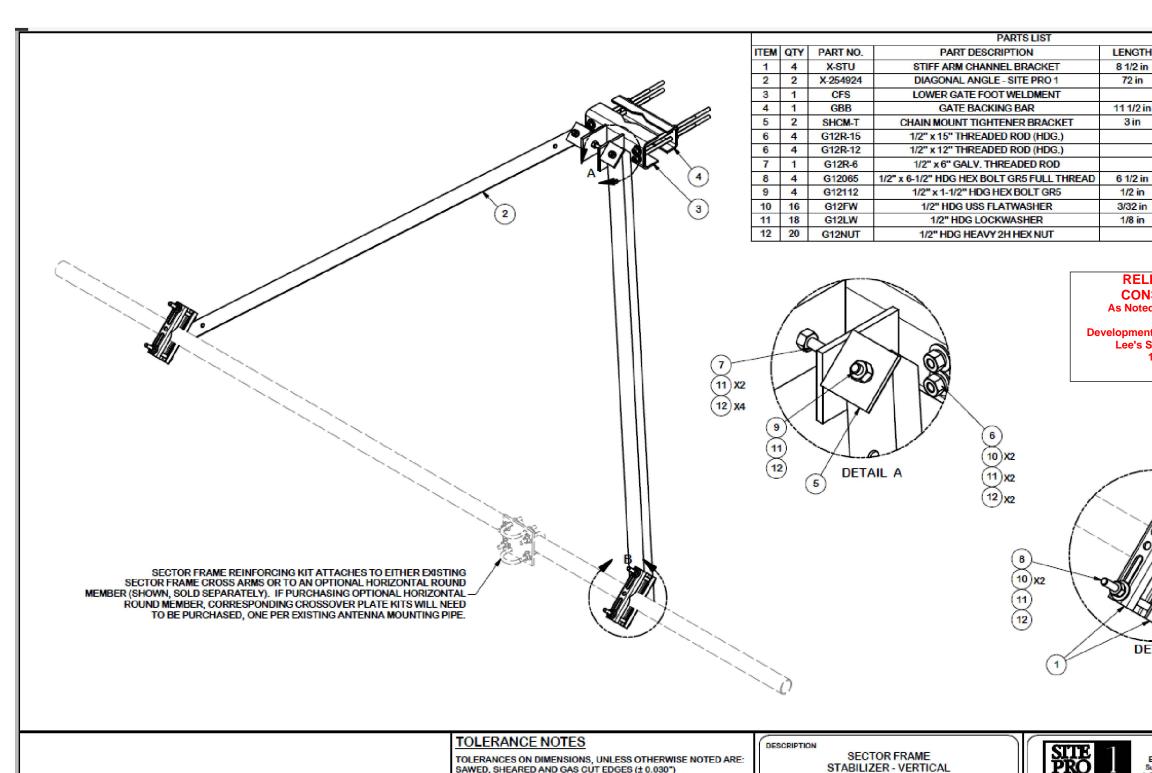


NOTE: CONTRACTOR TO INSTALL MOUNT MODIFICATIONS PER THE MANUFACTURERS SPECIFICATION. MODIFICATIONS SHALL NOT OBSTRUCT, INTERFERE, OR BLOCK EXISTING SAFETY CLIMB SYSTEM. IF ANY OF THESE OCCURS DURING INSTALLATION CONTACT THE AMERICAN TOWER PMI INBOX PMI@AMERICANTOWER.COM

RELEASED FOR CONSTRUCTION As Noted on Plans Review

Development Services Department Lee's Summit, Missouri 11/17/2021

AMERICAN TOW ATC TOWER SERVIC 3500 REGENCY PARKWA SUITE 100 CARY, NC 27518 PHONE: (919) 468-0112 COA: 2015011232	ES	Ø
THESE DRAWINGS AND/OR THE ACCOMPANYING AS INSTRUMENTS OR SERVICE ARE THE EXCLUS OF AMERICAN TOWER. THEIR USE AND PUBLICA RESTRICTED TO THE ORIGINAL SITE FOR WHICH PREPARED. ANY USE OR DISCLOSURE OTHER TI RELATES TO AMERICAN TOWER OR THE SPECIFI STRICTLY PROHIBITED. TITLE TO THESE DOCUM REMAIN THE PROPERTY OF AMERICAN TOWER V THE PROJECT IS EXECUTED. NEITHER THE ARCI- ENGINEER WILL BE PROVIDING ON-SITE CONSTR DIMENSIONS AND ADVISE AMERICAN TOWER OF DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS SUPERSEDED BY THE LATEST VERSION ON FILE TOWER.	SIVE P TION S THEY AN T ED C/ ENTS VHETH HITEC RUCTIO TY ALL ANY DRAV	ROPERTY SHALL BE ' ARE HAT WHICH ARRIER IS SHALL HER OR NOT T NOR THE ON REVIEW - VING IS
REV. DESCRIPTION	BY	DATE
	RJS	07/30/21
ATC SITE NUMBER:		
306035		
ATC SITE NAME:		
UNITY VILLAGE MO	2 2	
MISSOURI		
SITE ADDRESS:		
2150 NW LOWENSTEIN LEES SUMMIT, MO 6408	1	
DRAWN BY: RJS APPROVED BY: MFE DATE DRAWN: 07/30/21 ATC JOB NO: 13616192_C9_05	*	
SHEET NUMBER:	R	
S-102		U



					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			LONG			A valmont V com	1-8
	CHANGED MAX, DIA, FOR HANDRAIL CONNECTION	5563	D D C	10/25/2017	ALL OTHER MACHINING (± 0.030") ALL OTHER ASSEMBLY (± 0.060")	CPD N 55		DRAWN BY CEK 3/23/2017	ENG. APPROVAL	P	PART NO.	SFS-\
REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE	PROPRIÉTARY NOTE: THÉ DATA AND TÉCHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIÉTARY INFORMATION OF VALMONT			DRAWING USAGE			WG. NO.	050.1
	REVISION HISTORY			·	INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.	81	01	CUSTOMER	BMC 3/23/2017			SFS-\

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDE WITHOUT EDIT. PLEASE REFERENCE THE MOUNT ANA ANALYSIS CALCULATIONS AND DETAILS. SUPPLEMENT CONSTRUCTION DRAWINGS ARE FOR REFERENCE ONI VERYIFY THEY HAVE THE MOST RECENT MOUNT ANALYSIS PRIOR TO CONTRUCTION.

TH	UNIT WT.	NET WT.		
n	1.37	5.49		
1	19.71	39.41		
	12.72	12.72		
in	4.53	4.53		
	1.86	3.72		
	0.40	1.60		
	0.40	1.60		
	0.33	0.33		
n	0.41	1.64		
1	0.15	0.59		
	0.03	0.55		
n 1	0.03	0.35		
	0.07	1.43		
	TOTAL WT.#			
	TOTAL WI.#	76.65		
ent S Sun	n Plans Revie ervices Depar nmit, Missour 17/2021	rtment		
ETA				
Engi Supp 1-888	neering Atlan ort Team: Los A	rork, NY ta, GA ingeles, CA outh, IN a, OR		
	1			
5-V-	L	OF		
N I		т <u>е</u> З		
5-V-	L		J	
Δ Τ.	THE REQUEST O			
	S REPORT FOR C			
	AGES INCLUDED		·	
	ENERAL CONTRA			

SHEET NUMBER:	
R-601	

SUPPLEMENTAL

SHEET

TC SA	OLERANCE NOTES OLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE: AWED, SHEARED AND GAS CUT EDGES (± 0.030") RILLED AND GAS CUT HOLES (± 0.030") - NO CONING OF HOLES ASER CUT EDGES AND HOLES (± 0.010") - NO CONING OF HOLES ENDS ARE ± 1/2 DEGREE	DESCRIPTI	CROS	SOVER PLATE AMP STYLE)	Engli Suppo 1-888-
1-1/2" TO 4-1/2" (ORDERED SEPARATELY)			G12LW G12NUT	1/2" HDG LOCKWASHER 1/2" HDG HEAVY 2H HEX NUT	RELEAS CONSTR As Noted on F elopment Serv Lee's Summ 11/17/
		2 2 3 2 4 8 5 4	X-115765 X-100064 G12065 G12045 G12FW	5" V-CLAMP CLAMP (S) (4" V-CLAMP) GALVANIZED 1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD 1/2" x 4.5" HDG HEX BOLT GR5 FULL THREAD 1/2" HDG USS FLATWASHER	6 1/2 in 4 1/2 in
		EM QTY 1 1	PART NO. SCX7	PART DESCRIPTION CROSSOVER PLATE	LENGTH 8 in
	Π			PARTSLIST	

 LASER CUT EDGES AND HOLES (± 0.010") - NO CONING OF HOLES
 A valmont (* construction)

 BENDS ARE ± 1/2 DEGREE
 ALL OTHER MACHINING (± 0.030")

 ALL OTHER ASSEMBLY (± 0.060")
 CPD NO.
 DRAWN BY

 CPD NO.
 CEK
 10/7/2010
 ENG. APPROVAL

 PROPARTAWY NOTE:
 CEK
 10/7/2010
 CEK
 OWO. NO.

 PROPARTAWY NOTE:
 THE DRAWING ARE PROPRIETARY INFORMATION OF VALMONT
 CLASS
 SUB
 DRAWING USAGE
 CHECKED BY
 DWO. NO.

 INDUSTRIES IN STRUCTURE ON THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT
 SI 01
 CUSTOMER
 BMC
 10/8/2010
 SCX

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED WITHOUT EDIT. PLEASE REFERENCE THE MOUNT ANAL ANALYSIS CALCULATIONS AND DETAILS. SUPPLEMENTA CONSTRUCTION DRAWINGS ARE FOR REFERENCE ONL' VERYIFY THEY HAVE THE MOST RECENT MOUNT ANALY

H	UNIT WT.	NET WT
	7.55	7.55
	1.02 0.91	2.04
n	0.91	3.28
n	0.30	1.19
	0.03	0.54
	0.01	0.11
	TOTAL WT. #	16.98
on Ser umn	RUCTION Plans Review vices Departm nit, Missouri //2021	
Supp -888	ineering Atlan ort Team: Los A -753-7446 Plyme Salen Dalla	Yorik, NY ta, G.A ingeles, CA puth, IN n, OR s, TX
(7-1		OF 1
	0	l
ALYS TAL I ILY. (T THE REQUEST (SIS REPORT FOR PAGES INCLUDEI GENERAL CONTF S PRIOR TO CON	COMPLETE D IN THE RACTOR IS T

REVISION:

0

10:17 AM 7/27/2021

\$10,000

Option 1 - Modify: Estimate for T-Mobile @ 306035 (Unity Village MO 2) -- 13616192_C9_05

Site Data and Design Parameters				Dates and Designers			
Asset OTM # 306035		Mount Analysis Date / By	6/28/2021 /	KS			
Asset Name		Unity Village MO 2		Design Date / By	7/27/2021 /	MFE	
State		МО		Checked Date / By	1	1	
County		Jackson		Detailer (Prev/Current/Level)	/	/	
City		Lees Summit		Software	RISA	RISA	
Failing Analysis Eng. #		13616192_C8_01		Tower Type	Self-Support	3-sided	
Mod. Drawing Eng. #		13616192_C9_05		Mount Type	V-Fram	V-Frame	
Building Codes TIA/IBC:		ANSI/TIA-222-H	/ 2009 IBC Carriers				
	Local:			# of RADs	1		
Failing Analysis % / Code		175% /	TIA-H	Carrier	T-Mobi	le	
Post Mod % / Controlling Member		98% /	Horizontals				
Usage Limit % / Reason		105% /	N/A				

Any modification design comments or assumptions? **No** *(including notes to the Estimator)*

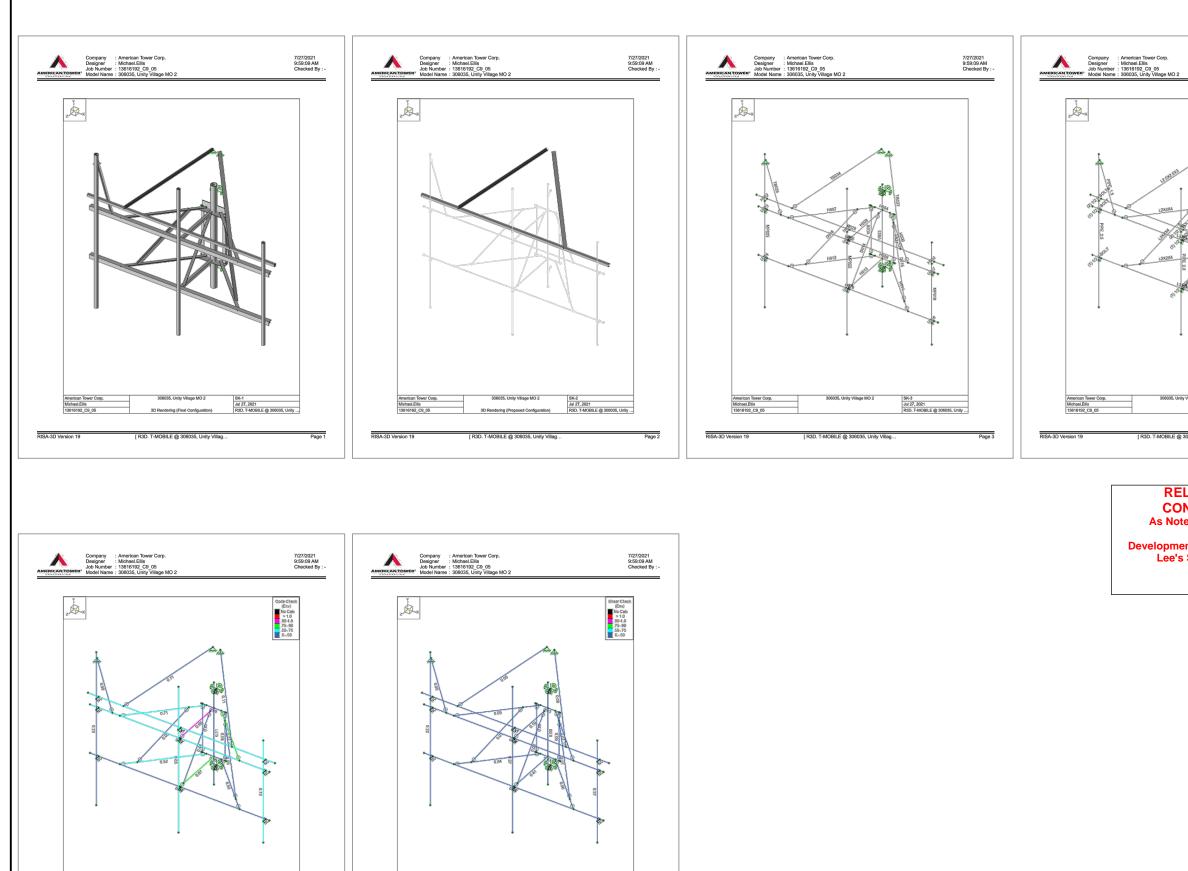
Modification Summary				
Item #	Item # Scope Item			
1	Install Site Pro 1 SFS-V-L V Style Stabilizer on All (3) sector(s)			
2	Install Site Pro 1 P2150 Pipe w/ SCX7-U crossovers on All (3) sector(s)			

Estimated Modification Cost

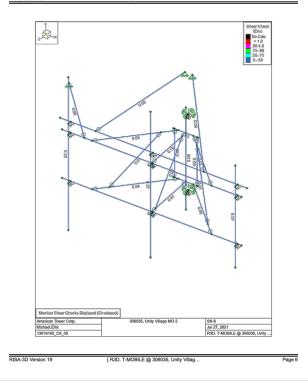
Option 2 - Replace: Estimate for T-Mobile @ 30603 Tower Info Tower Number 306035	Additional Info Can modifications be Installed? Yes	Copyright © 2021 ATC IP LLC, All Rights Reserved
Tower NameUnity Village MO 2StateMOJurisdictional CodesDesign TIA CodeUnknownCurrent TIA CodeANSI/TIA-222-HIBC2009 IBCOther-Project InformationCarrierT-MobileStructure TypeSelf-Support	What is the post-mod capacity? 98% Project Requirements 150 New Mount Face Width 150 Number of Sectors 3	
Recommended Mount Replacement Site Pro 1 VFA10-SD-S *or approved equivalent	Estimated Replacement Cost\$ 36,000.00RELEASED FOR CONSTRUCTION As Noted on Plans ReviewDevelopment Services Department Lee's Summit, Missouri 11/17/2021	SUPPLEMENTAL
		SHEET NUMBER: REVISION: R-901 0

\\americantower\cary\structural_reports\s-v\unity village mo 2, mo (306035)\13616192 t-mobile\13616192_05_MOUNT_DRW\Mount Modification SOW v1.4.7

<image/> <image/> <image/> <image/> <image/> <image/> <section-header><image/><section-header><image/><section-header><image/><section-header><image/><section-header><section-header><section-header><image/><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>	Egs. Number 13616192_C9_05 Diver documents Analysis Conclusion Application Loading Structure Usages Gondusions Structure Usages Audure Layout Standard Conditions Calculations	<page-header><page-header><image/><image/><section-header><section-header><text><text><section-header><text><text><text><text><text></text></text></text></text></text></section-header></text></text></section-header></section-header></page-header></page-header>	<page-header><page-header><image/><image/><image/><section-header><section-header><section-header><image/><section-header></section-header></section-header></section-header></section-header></page-header></page-header>	AMERICAN TOWER SERVICES SS00 REGENCY PARKWAR SUITE 100 CARY, NC 27518 PHONE: (919) 468-0112 COMMINSS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OR SERVICE ARE THE EXCLUSIVE PROPERTY OF AMERICAN TOWER. THEIR USE AND PUBLICATION SHALL BE RESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OR SERVICE ARE THE EXCLUSIVE PROPERTY OF AMERICAN TOWER. THEIR USE AND PUBLICATION SHALL BE RESE TO AMERICAN TOWER OR THE SPECIFIC ARTICL OF AMERICAN TOWER. THEIR USE AND PUBLICATION SHALL BE RESE TO AMERICAN TOWER OR THE SPECIFIC ARTICL DESCRIPTION BE ON ON SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH PREPARED. ANY YPHOR ISSUANCE OF THE SPECIFIC CARTER IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER. REV DESCRIPTION BY DATE A FIRST ISSUE RUS OF ONE OF ANY ATC SITE NUMBER: 306035 ATC SITE NUMBER: UNITY VILLAGE MOD 2 MISSOURI BITE ADDRESS: 2150 NW LOWENSTEIN LES SUMMIT, MO 64081
	<image/> <page-header><image/><image/><image/><image/><image/><image/><image/><image/><image/><image/></page-header>	Eng. Number 13616132_C9_05 July 27, 2021 Page 5		DRAWN BY: RJS APPROVED BY: MFE DATE DRAWN: 07/30/21 ATC JOB NO: 13616192_C9_05
ATC Tower Services- 3500 Regency Parlnawy, Solite 100 - Gary, NC 27518 - 913.448.0112 Office - 913.446.5144 Fast - www.americantower.com	Att: Tower Services - 5000 Regency Parlways, Sale 100 - Care, NC 27318 - 915.4465.011 Office - 915.4465.514 Fize - www.americantower.com	ATC Tower Services - 1920 Regaray Parlway, Solio 100 - Carg. NC 27518 - 938.466.2012 Office - 938.466.5414/se - www.americantower.com	* Equipment with IPA values IV/A were not considered in the mount enabytis	







7/27/2021 9:59:09 AM Checked By : -	AMERICAN TOWER [®] ATC TOWER SERVICES
	AMERICAN TOWER®
	ATC TOWER SERVICES
	3500 REGENCY PARKWAY
	SUITE 100 CARY, NC 27518
	PHONE: (919) 468-0112
1 tim the	PHONE: (919) 468-0112 COA: 2015011232
	THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OR SERVICE ARE THE EXCLUSIVE PROPERTY OF AMERICAN TOWER. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBIED. TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF AMERICAN TOWER WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER.
and the second sec	<u>∕0</u> FIRST ISSUE RJS _07/30/21
-	
	\bigwedge^{\square}
Village MO 2 Jul 27, 2021 R3D. T-MOBILE @ 306035, Unity,	ATC SITE NUMBER:
	306035
06035, Unity Villag Page 4	ATC SITE NAME:
	UNITY VILLAGE MO 2
LEASED FOR	MISSOURI
NSTRUCTION	SITE ADDRESS:
ed on Plans Review	2150 NW LOWENSTEIN LEES SUMMIT, MO 64081
nt Services Department Summit, Missouri 11/17/2021	★ SCOTTO. WIRGAU NUMBER PE-2016036844
	DRAWN BY: RJS APPROVED BY: MFE DATE DRAWN: 07/30/21 ATC JOB NO: 13616192_C9_05 SUPPLEMENTAL
	SHEET NUMBER: REVISION:
	R-903 0