

VICINITY MAP



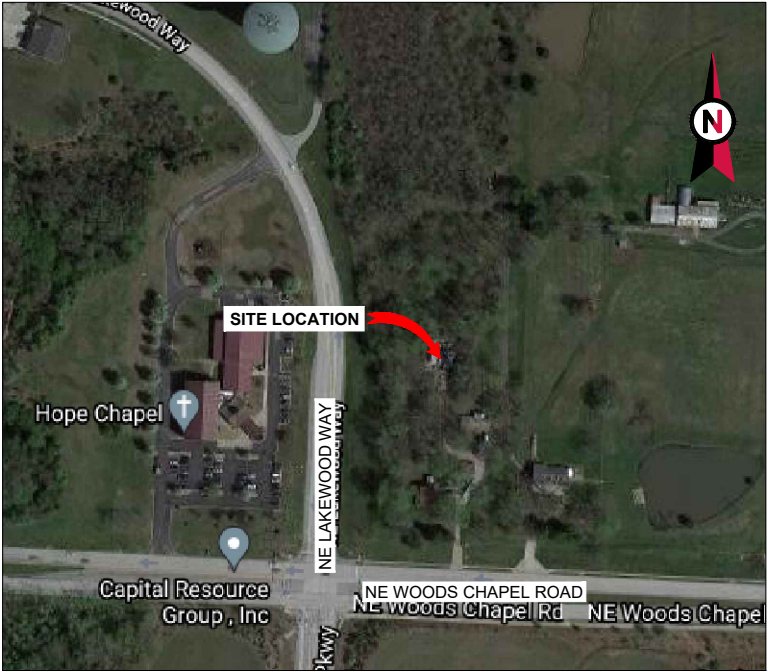
**RELEASED FOR  
CONSTRUCTION**  
As Noted on Plans Review

Development Services Department  
Lee's Summit, Missouri

11/09/2021

**AMERICAN TOWER®**

ATC SITE NAME: WOODS CHAPEL  
ATC SITE NUMBER: 306042  
T-MOBILE SITE NAME: WOODS CHAPEL ATC  
T-MOBILE SITE NUMBER: A5C0406A  
SITE ADDRESS: 1204 N.E. WOODS CHAPEL ROAD  
LEES SUMMIT, MO 64064-1989



LOCATION MAP

**T-MOBILE ANCHOR ANTENNA AMENDMENT PLAN  
56791EZ\_SR CONFIGURATION**

RFDS: VERSION 4, DATED 04/27/2021

COMPLIANCE CODE	PROJECT SUMMARY	PROJECT DESCRIPTION	SHEET INDEX				
<p>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 TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.</p> <p>1. INTERNATIONAL BUILDING CODE (IBC)</p> <p>2. NATIONAL ELECTRIC CODE (NEC)</p> <p>3. LOCAL BUILDING CODE</p> <p>4. CITY/COUNTY ORDINANCES</p>	<p><u>SITE ADDRESS:</u></p> <p>1204 N.E. WOODS CHAPEL ROAD</p> <p>LEES SUMMIT, MO 64064-1989</p> <p>COUNTY: JACKSON</p> <p><u>GEOGRAPHIC COORDINATES:</u></p> <p>LATITUDE: 38.98321389</p> <p>LONGITUDE: -94.35006389</p> <p>GROUND ELEVATION: 972' AMSL</p>	<p>THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW:</p> <p><u>TOWER WORK:</u></p> <p>REMOVE (6) ANTENNA(s), (6) RRU(s), (3) TMA(s) AND (1) 1 5/8" COAX CABLE</p> <p>INSTALL (3) ANTENNA(s), (3) RRH(s), (1) HELIAX PENDANT AND (1) HCS 2.0 TRUNK CABLE</p> <p>EXISTING (3) ANTENNA(s), (1) COVP, (3) RRU(s), (5) 1 5/8" COAX CABLE(s), (6) 7/8" COAX CABLE(s) AND (1) 1.46" HYBRID CABLE TO REMAIN</p> <p><u>GROUND WORK:</u></p> <p>REMOVE (2) EXISTING EQUIPMENT CABINETS</p> <p>INSTALL (1) HPL3 SSC, (1) LB3 BBU AND (1) HCS 2.0 JUNCTION BOX</p> <p>EXISTING (1) COVP TO REMAIN</p>	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
			G-001	TITLE SHEET	0	09/20/21	AL
			G-002	GENERAL NOTES	0	09/20/21	AL
			C-101	DETAILED SITE PLAN	0	09/20/21	AL
			C-102	DETAILED GROUND PLAN	0	09/20/21	AL
			C-201	TOWER ELEVATION	0	09/20/21	AL
			C-401	ANTENNA INFORMATION & SCHEDULE	0	09/20/21	AL
			C-501	CONSTRUCTION DETAILS	0	09/20/21	AL
			E-501	GROUNDING DETAILS	0	09/20/21	AL
			R-601	SUPPLEMENTAL			
		R-602	SUPPLEMENTAL				
		R-603	SUPPLEMENTAL				
		R-604	SUPPLEMENTAL				
		R-605	SUPPLEMENTAL				
		R-606	SUPPLEMENTAL				



**ARIA  
SERVICES, INC.**  
(281) 797-4387  
www.aria-corp.com

THE USE AND PUBLICATION OF THESE DRAWINGS 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 PROHIBITED. 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 OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.

REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	AL	09/20/21

ATC SITE NUMBER:  
306042

ATC SITE NAME:  
WOODS CHAPEL

T-MOBILE SITE NAME:  
WOODS CHAPEL ATC

SITE ADDRESS:  
1204 N.E. WOODS CHAPEL ROAD  
LEES SUMMIT, MO 64064-1989



**T Mobile**

DATE DRAWN:	09/20/21
ATC JOB NO:	13694528_G3
CUSTOMER ID:	WOODS CHAPEL ATC
CUSTOMER #:	A5C0406A

TITLE SHEET

SHEET NUMBER:  
**G-001**

REVISION:  
**0**

GENERAL CONSTRUCTION NOTES:

1. OWNER FURNISHED MATERIALS, T-MOBILE "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL

A. BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/CO-LOCATE ONLY)

B. AC/TELCO INTERFACE BOX (PPC)

C. ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILD/CO-LOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)

D. TOWERS, MONOPOLES

E. TOWER LIGHTING

F. GENERATORS & LIQUID PROPANE TANK

G. ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING

H. ANTENNAS (INSTALLED BY OTHERS)

I. TRANSMISSION LINE

J. TRANSMISSION LINE JUMPERS

K. TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS

L. TRANSMISSION LINE GROUND KITS

M. HANGERS

N. 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-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 T-MOBILE TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED PERMITS.
3. ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSI/EIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS.
4. CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
6. 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.
7. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
8. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
9. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
11. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
12. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING 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.
14. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE T-MOBILE CONSTRUCTION MANAGER.
15. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
16. WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE T-MOBILE REP AND ENGINEER OF RECORD IMMEDIATELY.
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 EACH DAY.
19. CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
20. CONTRACTOR SHALL FURNISH T-MOBILE AND AMERICAN TOWER CORPORATION (ATC) WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
21. 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 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.
23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH T-MOBILE SPECIFICATIONS AND REQUIREMENTS.
24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO T-MOBILE FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
25. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO T-MOBILE 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.
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.
29. 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.
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 AS SPECIFIED.
32. 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.
33. T-MOBILE OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY 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:

1. WORK INCLUDED:

A. 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.

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.

F. 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:
2. ALL EXTERIOR #6 GREED GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR EQUAL.

ELECTRICAL NOTES:

1. ELECTRICAL DESIGN SHALL BE PERFORMED BY ELECTRICAL CONTRACTOR. STRUCTURAL DESIGN SHALL BE PERFORMED BY GENERAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL ENSURE THAT ALL WORK COMPLIES WITH ALL APPLICABLE LOCAL AND STATE CODES AND NATIONAL ELECTRICAL CODE.
2. ALL SUGGESTED ELECTRICAL ELEMENTS (SUCH AS BREAKER SIZES, WIRE SIZES, CONDUITS SIZES ARE FOR ZONING PURPOSES ONLY. IT IS THE RESPONSIBILITY TO OF THE ELECTRICAL CONTRACTOR TO CONFIRM COMPLIANCE WITH LOCAL ELECTRICAL CODES AND PASS ALL APPLICABLE AND NECESSARY INSPECTIONS. IN SOME EVENTS, IT MAY BE NECESSARY TO PERFORM AN ELECTRICAL LOAD STUDY TO VERIFY THE CAPACITY OF THE EXISTING SERVICE. THIS IS NOT THE RESPONSIBILITY OF CONCORDIA. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
3. CONTRACTOR SHALL FIELD LOCATE ALL BELOW GRADE GROUND LINES AND UTILITY LINES PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR RELOCATION OF ALL UTILITIES AND GROUND LINES THAT MAY BECOME DISTURBED OR CONFLICTING IN THE COURSE OF CONSTRUCTION.

RELEASED FOR  
CONSTRUCTION  
As Noted on Plans Review

Development Services Department  
Lee's Summit, Missouri

11/09/2021



AMERICAN TOWER®



ARIA  
SERVICES, INC.  
(281) 797-4387  
www.aria-corp.com

THE USE AND PUBLICATION OF THESE DRAWINGS 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 PROHIBITED. 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 OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.

REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	AL	09/20/21

ATC SITE NUMBER:  
306042

ATC SITE NAME:  
WOODS CHAPEL


T-MOBILE SITE NAME:  
WOODS CHAPEL ATC

SITE ADDRESS:  
1204 N.E. WOODS CHAPEL ROAD  
LEES SUMMIT, MO 64064-1989

SEAL:



09/20/2021

	
DATE DRAWN:	09/20/21
ATC JOB NO:	13694528_G3
CUSTOMER ID:	WOODS CHAPEL ATC
CUSTOMER #:	A5C0406A

GENERAL NOTES	
SHEET NUMBER: G-002	REVISION: 0

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.



SITE PLAN NOTES:

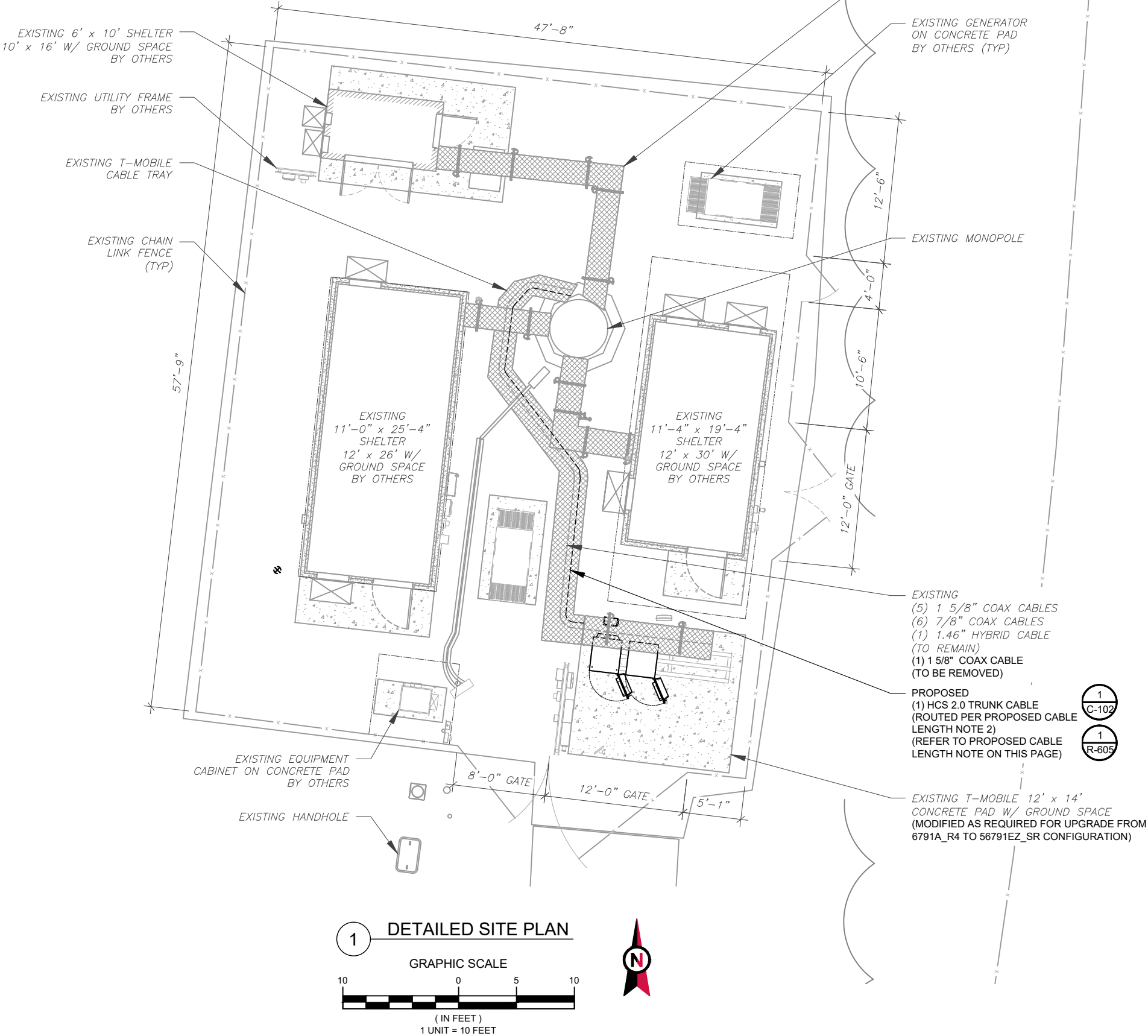
1.

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.
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.
3.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE T-MOBILE REPRESENTATIVE AND LOCAL UTILITY COMPANY FOR THE INSTALLATION OF CONDUITS, CONDUCTORS, BREAKERS, DISCONNECTS, OR ANY OTHER EQUIPMENT 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.

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



- PROPOSED CABLE LENGTH:
1.

ESTIMATED LENGTH OF PROPOSED CABLE IS **200'**. 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. 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.



**AMERICAN TOWER®**



**ARIA  
SERVICES, INC.**  
(281) 797-4387  
www.aria-corp.com

THE USE AND PUBLICATION OF THESE DRAWINGS 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 PROHIBITED. 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 OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.

REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	AL	09/20/21

ATC SITE NUMBER:  
**306042**

ATC SITE NAME:  
**WOODS CHAPEL**

T-MOBILE SITE NAME:  
**WOODS CHAPEL ATC**

SITE ADDRESS:  
1204 N.E. WOODS CHAPEL ROAD  
LEES SUMMIT, MO 64064-1989

SEAL:



09/20/2021

**T Mobile**

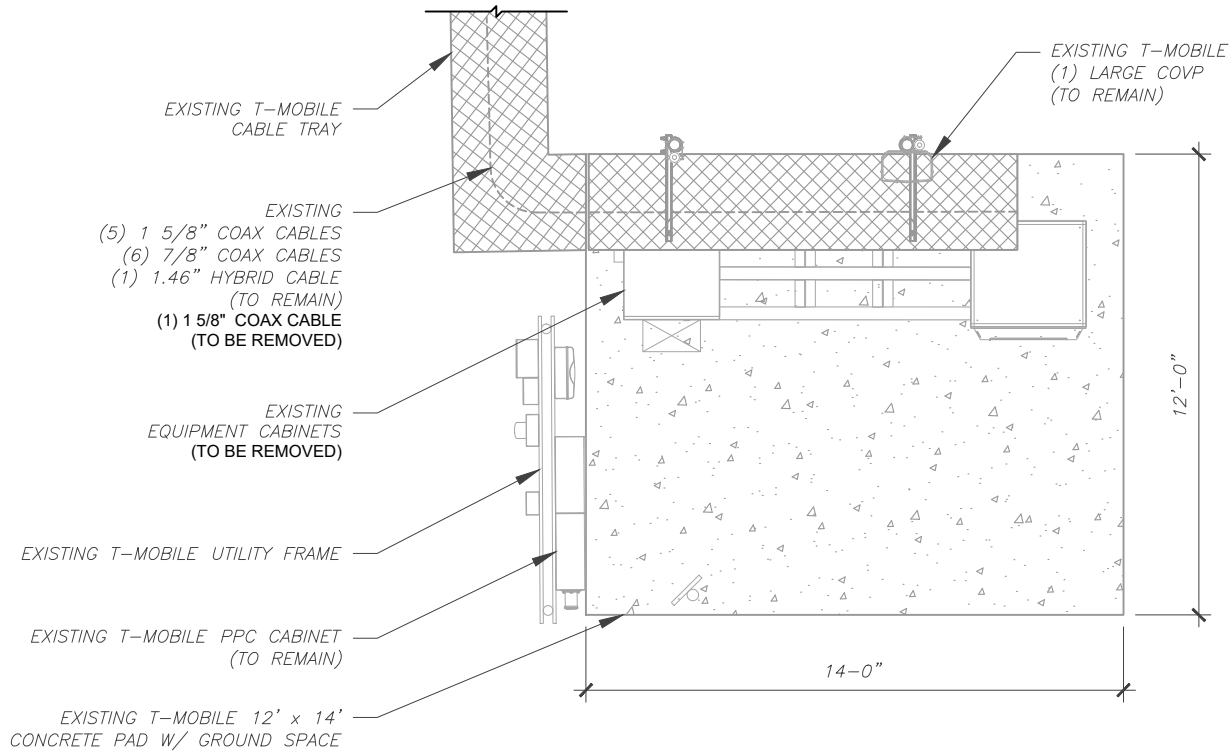
DATE DRAWN:	09/20/21
ATC JOB NO:	13694528_G3
CUSTOMER ID:	WOODS CHAPEL ATC
CUSTOMER #:	A5C0406A

DETAILED SITE PLAN

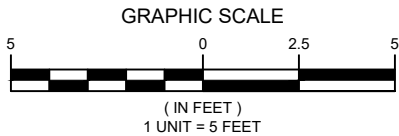
SHEET NUMBER:	REVISION:
<b>C-101</b>	<b>0</b>

SITE PLAN NOTES:

1. CONTRACTOR TO VERIFY THERE IS NO LIVE AAV FIBER RUNNING THROUGH EXISTING DEAD EQUIPMENT. IF SO, THIS WILL NEED TO BE RERUN THROUGH CONDUIT PRIOR TO REMOVING DEAD 2G (6201 CABS) EQUIPMENT.
2. REMOVE EXISTING 2G CABINETS, AND POWER / TELCO WHIPS ASSOCIATED WITH THE DEAD EQUIPMENT IF APPLICABLE.
3. ALL OPEN PORTS NEED TO BE SEALED / WEATHERPROOFED PROPERLY
4. ALL UNNEEDED / EXCESS EQUIPMENT AND GARBAGE TO BE REMOVED FROM EQUIPMENT AREA. DISPOSE OF MATERIALS PROPERLY OFF SITE.



1 EXISTING GROUND EQUIPMENT LAYOUT

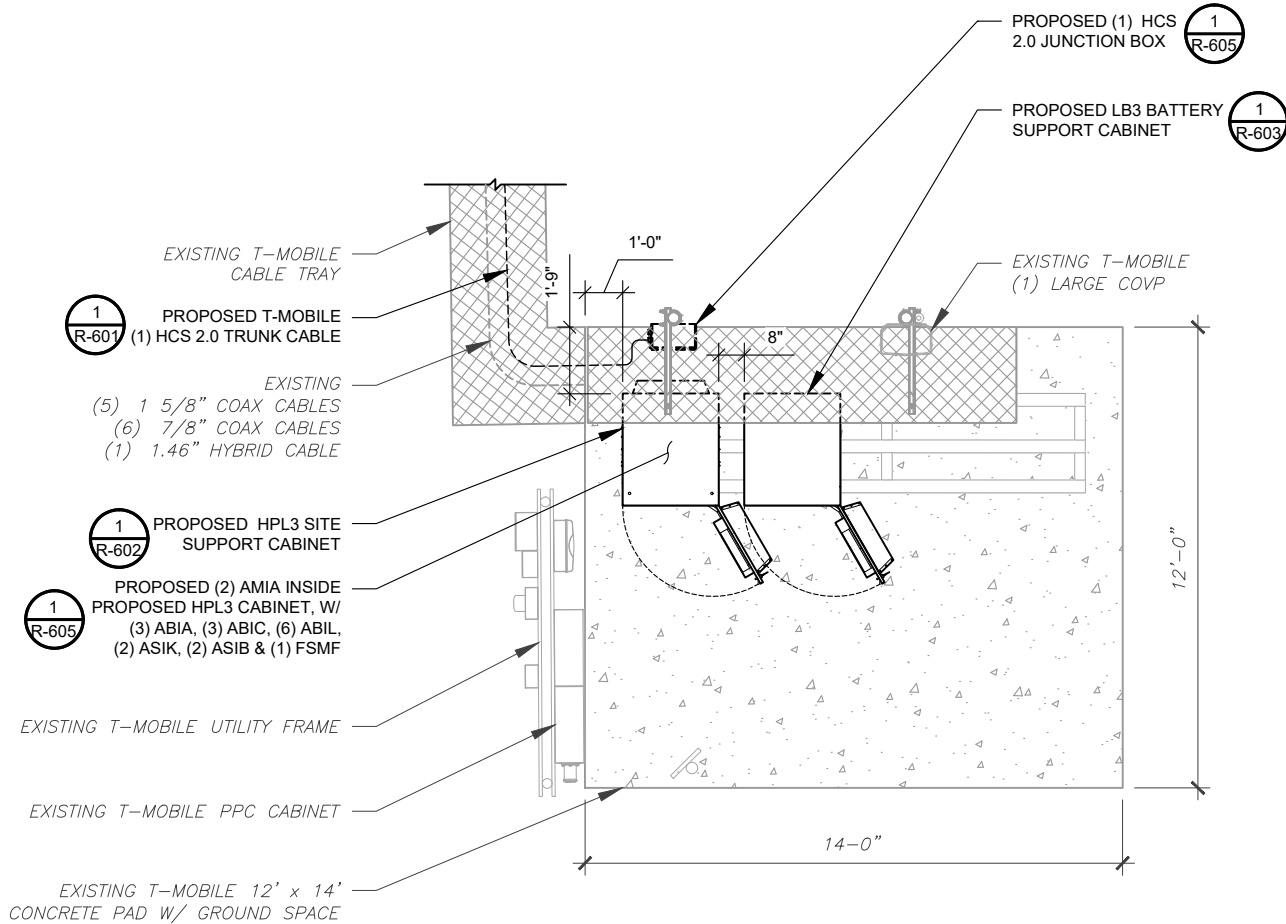


T-MOBILE CM APPROVAL REQUIRED  
BEFORE INSTALLING CABINETS

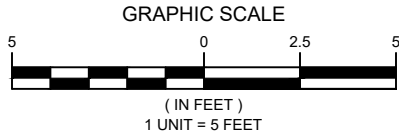
**RELEASED FOR  
CONSTRUCTION**  
As Noted on Plans Review

Development Services Department  
Lee's Summit, Missouri

11/09/2021



2 PROPOSED GROUND EQUIPMENT LAYOUT



THE USE AND PUBLICATION OF THESE DRAWINGS 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 PROHIBITED. 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 OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.

REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	AL	09/20/21

ATC SITE NUMBER:  
306042

ATC SITE NAME:  
WOODS CHAPEL

T-MOBILE SITE NAME:  
WOODS CHAPEL ATC

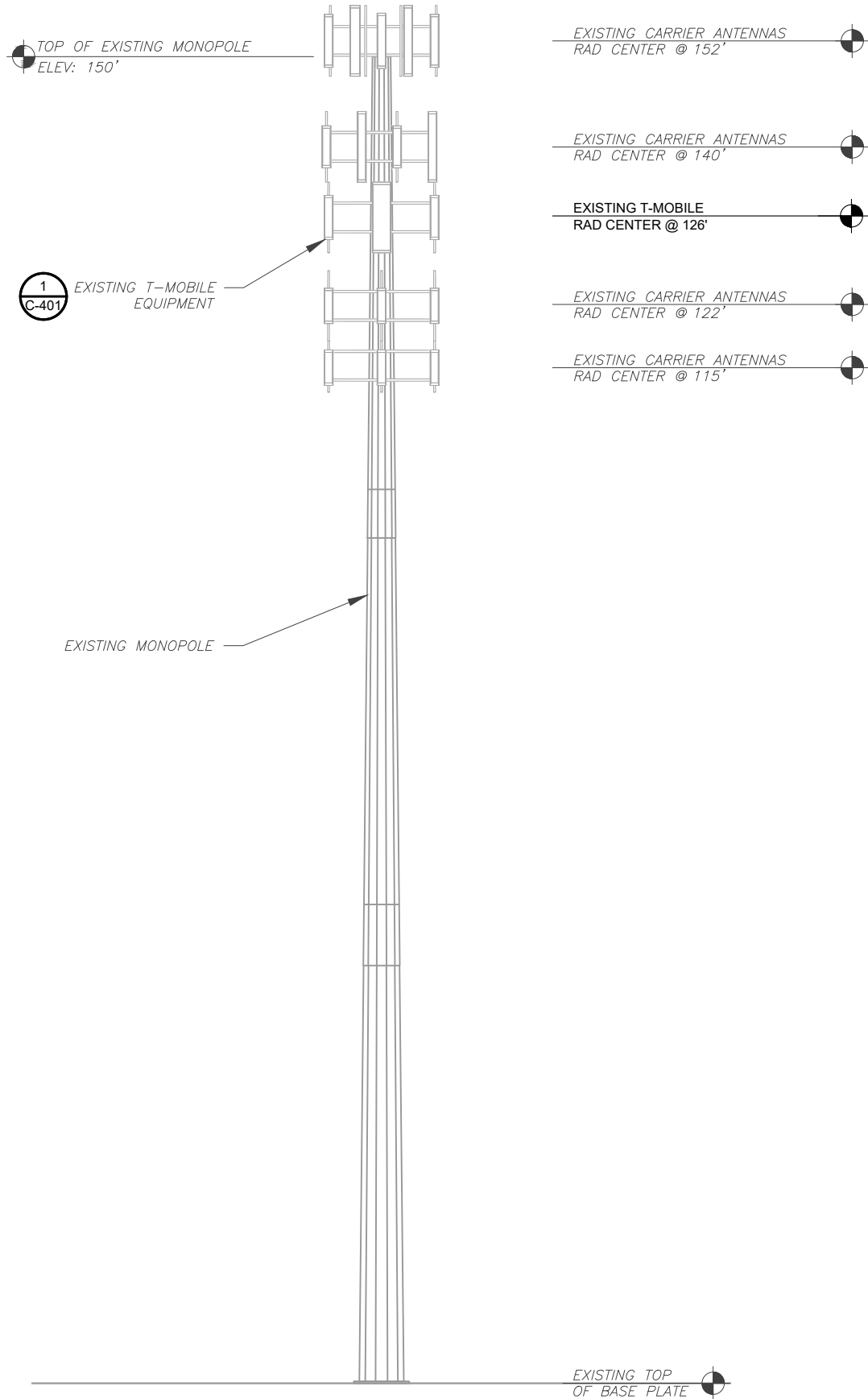
SITE ADDRESS:  
1204 N.E. WOODS CHAPEL ROAD  
LEES SUMMIT, MO 64064-1989



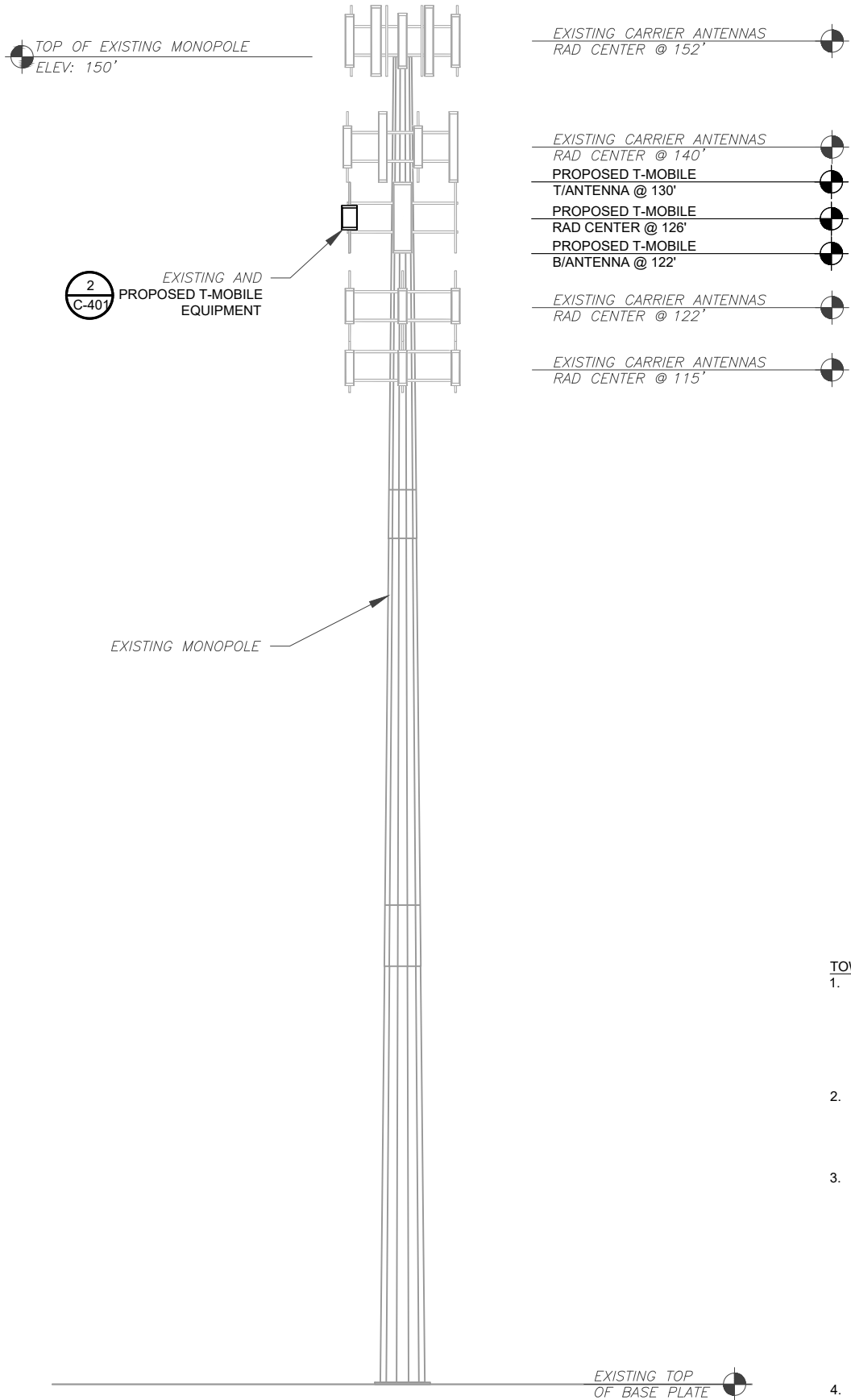
DATE DRAWN:	09/20/21
ATC JOB NO:	13694528_G3
CUSTOMER ID:	WOODS CHAPEL ATC
CUSTOMER #:	A5C0406A

DETAILED GROUND  
PLAN

SHEET NUMBER:	REVISION:
C-102	0



1 EXISTING TOWER ELEVATION  
SCALE: N.T.S.



2 PROPOSED TOWER ELEVATION  
SCALE: N.T.S.

PER MOUNT ANALYSIS COMPLETED BY ATC, DATED 09/02/21, THE EXISTING MOUNT MUST BE MODIFIED TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION DETAILED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT

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

**Development Services Department**  
**Lee's Summit, Missouri**

**11/09/2021**

- TOWER NOTE:**
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE PROJECT 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.
  - WHERE APPLICABLE, ALL NEW ANTENNAS, EQUIPMENT, MOUNTS, CABLING, ETC. SHALL BE PAINTED/SOCKED TO MATCH EXISTING EQUIPMENT IN ACCORDANCE WITH FAA, JURISDICTION, AND/OR OTHER LOCAL REQUIREMENTS.
  - 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.
  - TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)



THE USE AND PUBLICATION OF THESE DRAWINGS 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 PROHIBITED. 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 OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.

REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	AL	09/20/21

ATC SITE NUMBER:  
**306042**

ATC SITE NAME:  
**WOODS CHAPEL**

T-MOBILE SITE NAME:  
**WOODS CHAPEL ATC**

SITE ADDRESS:  
1204 N.E. WOODS CHAPEL ROAD  
LEES SUMMIT, MO 64064-1989

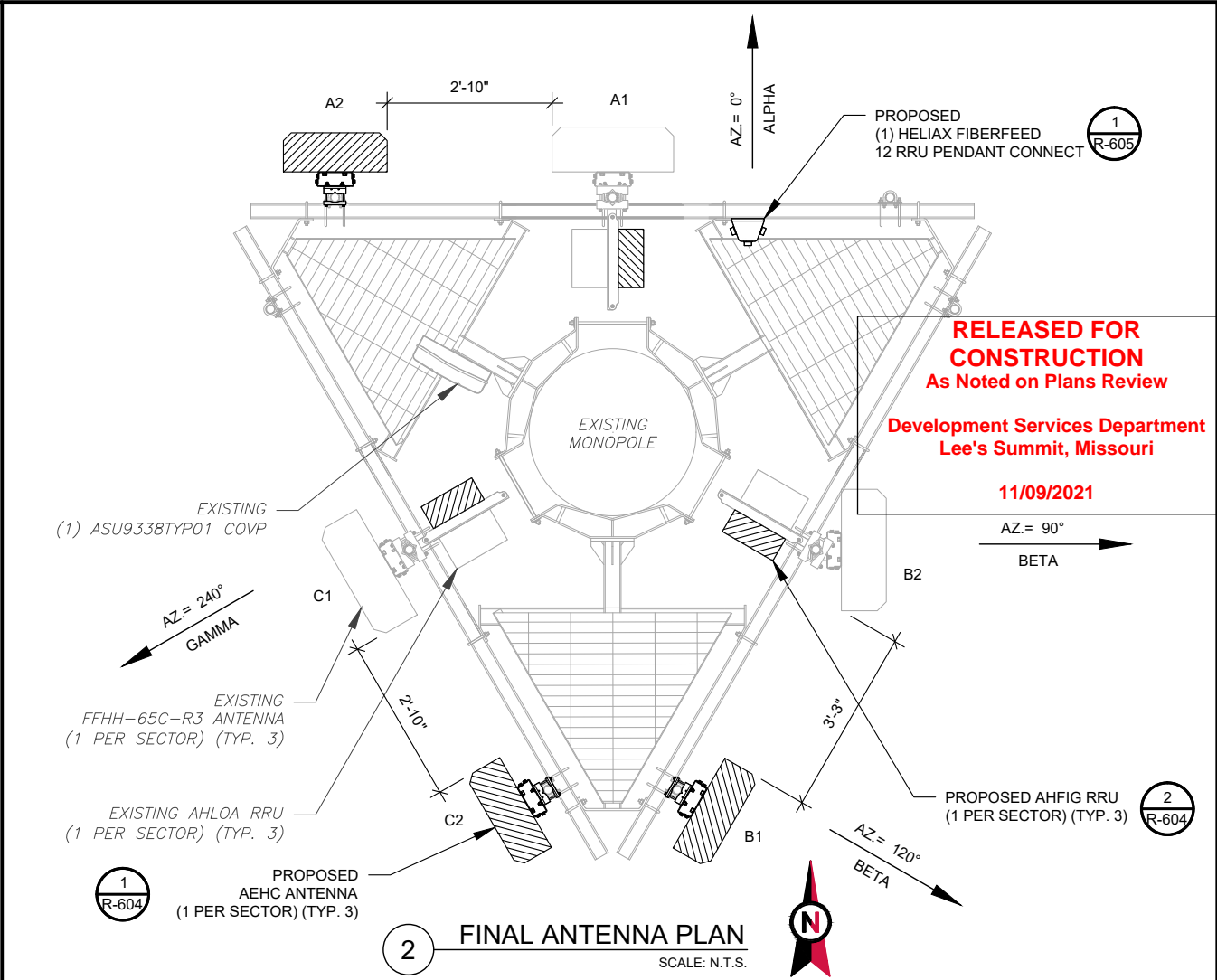
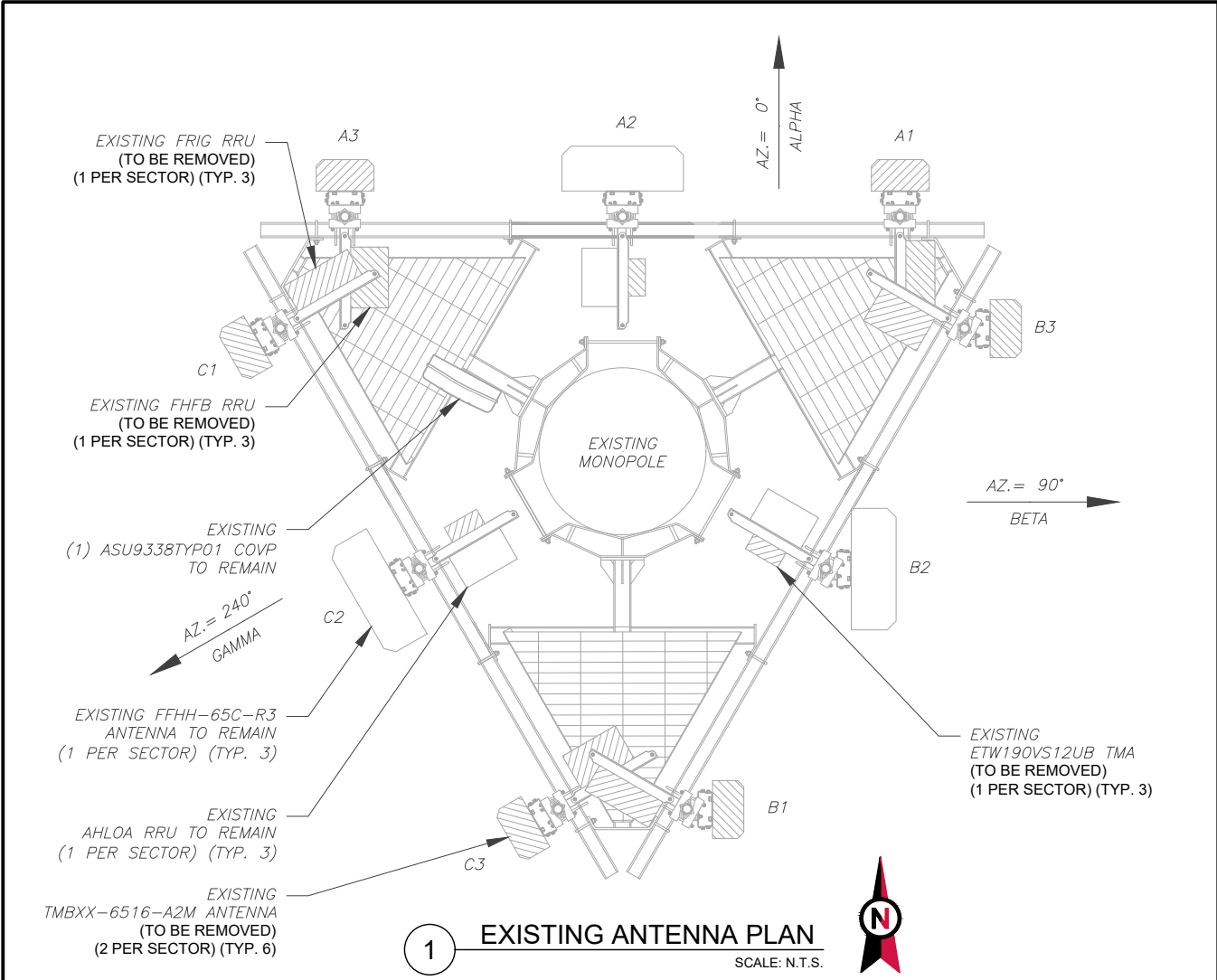


DATE DRAWN:	09/20/21
ATC JOB NO:	13694528_G3
CUSTOMER ID:	WOODS CHAPEL ATC
CUSTOMER #:	A5C0406A

## TOWER ELEVATION

SHEET NUMBER:	REVISION:
<b>C-201</b>	<b>0</b>





EXISTING ANTENNA SCHEDULE								
LOCATION			ANTENNA SUMMARY				NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH/ELEC D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT
ALPHA	126°	0°	A1	TMBXX-6516-A2M	L1900/U1900	0/6/6	RMV	(1) FRIG RRU
			A2	FFHH-65C-R3	L700/L600/N600 G1900	0/6/6	RMN	(1) AHLOA RRU
			A3	TMBXX-6516-A2M	L2100	0/6/6	RMV	(1) FHFB RRU
BETA	126°	90°	B1	TMBXX-6516-A2M	L1900/U1900	0/4/4	RMV	(1) FRIG RRU
			B2	FFHH-65C-R3	L700/L600/N600 G1900	0/7/7	RMN	(1) AHLOA RRU
			B3	TMBXX-6516-A2M	L2100	0/4/4	RMV	(1) FHFB RRU
GAMMA	126°	240°	C1	TMBXX-6516-A2M	L1900/U1900	0/4/4	RMV	(1) FRIG RRU
			C2	FFHH-65C-R3	L700/L600/N600 G1900	0/7/7	RMN	(1) AHLOA RRU
			C3	TMBXX-6516-A2M	L2100	0/4/4	RMV	(1) FHFB RRU

- NOTES
1. CONFIRM WITH T-MOBILE REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG). GC TO CAP ALL UNUSED PORTS.

2. CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.
- STATUS ABBREVIATIONS
- RMV: TO BE REMOVED

RMN: TO REMAIN

REL: TO BE RELOCATED

ADD: TO BE ADDED
- CABLE LENGTHS FOR JUMPERS
- JUNCTION BOX TO RRU: 15'

RRU TO ANTENNA: 10'

FINAL ANTENNA SCHEDULE									
LOCATION			ANTENNA SUMMARY				NON ANTENNA SUMMARY		
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH/ELEC D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	126°	0°	A2	AEHC	L2500/N2500	0/6	ADD	-	-
			A1	FFHH-65C-R3	L600/L700/N600/L1900 /G1900/N1900/U1900 /L2100/ N2100	0/6/6/6/6	RMN	(1) AHLOA RRU	RMN
BETA	126°	120°	B1	AEHC	L2500/N2500	0/4	ADD	-	-
		90°	B2	FFHH-65C-R3	L600/L700/N600/L1900 /G1900/N1900/U1900 /L2100/ N2100	0/7/7/4/4	RMN	(1) AHLOA RRU	RMN
GAMMA	126°	240°	C2	AEHC	L2500/N2500	0/4	ADD	-	-
			C1	FFHH-65C-R3	L600/L700/N600/L1900 /G1900/N1900/U1900 /L2100/ N2100	0/7/7/4/4	RMN	(1) AHLOA RRU	RMN

EXISTING FIBER DISTRIBUTION/OVP BOX		EXISTING CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
-	-	(5) 1 5/8" COAX CABLES	-	RMN
-	-	(6) 7/8" COAX CABLES	-	RMN
(1) ASU9338TYP01 COVP	-	-	(1) 1.46" HYBRID CABLE	RMN
-	-	(1) 1 5/8" COAX CABLE	-	RMV

PER MOUNT ANALYSIS COMPLETED BY ATC, DATED 09/02/21, THE EXISTING MOUNT MUST BE MODIFIED TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION DETAILED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT

FINAL FIBER DISTRIBUTION / OVP BOX		FINAL CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
(1) HELIAX FIBERFEED 12 RRU PENDANT CONNECT	ADD	-	(1) HCS 2.0 TRUNK	ADD
-	-	(5) 1 5/8" COAX CABLES	-	RMN
-	-	(6) 7/8" COAX CABLES	-	RMN
(1) ASU9338TYP01 COVP	-	-	(1) 1.46" HYBRID CABLE	RMN

3

EQUIPMENT SCHEDULES

THE USE AND PUBLICATION OF THESE DRAWINGS 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 PROHIBITED. 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 OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.

ATC SITE NUMBER:  
306042

ATC SITE NAME:  
WOODS CHAPEL

T-MOBILE SITE NAME:  
WOODS CHAPEL ATC

SITE ADDRESS:  
1204 N.E. WOODS CHAPEL ROAD  
LEES SUMMIT, MO 64064-1989

SEAL:

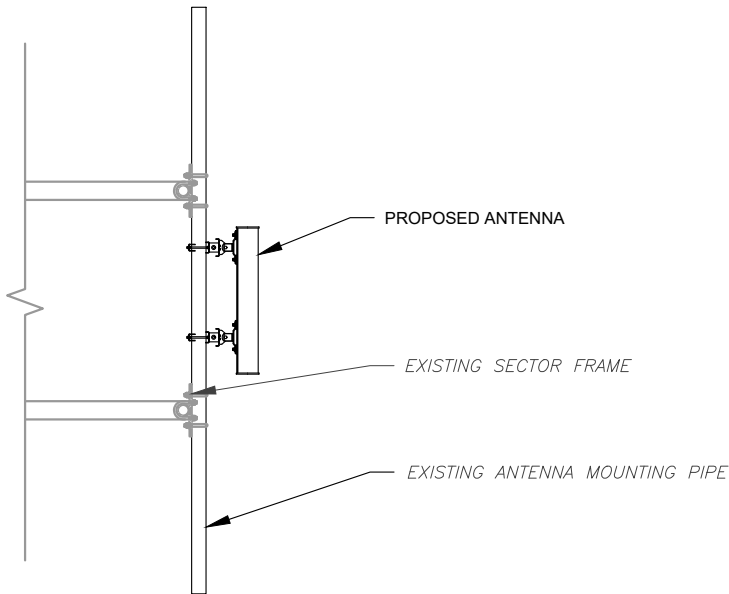
09/20/2021

T Mobile

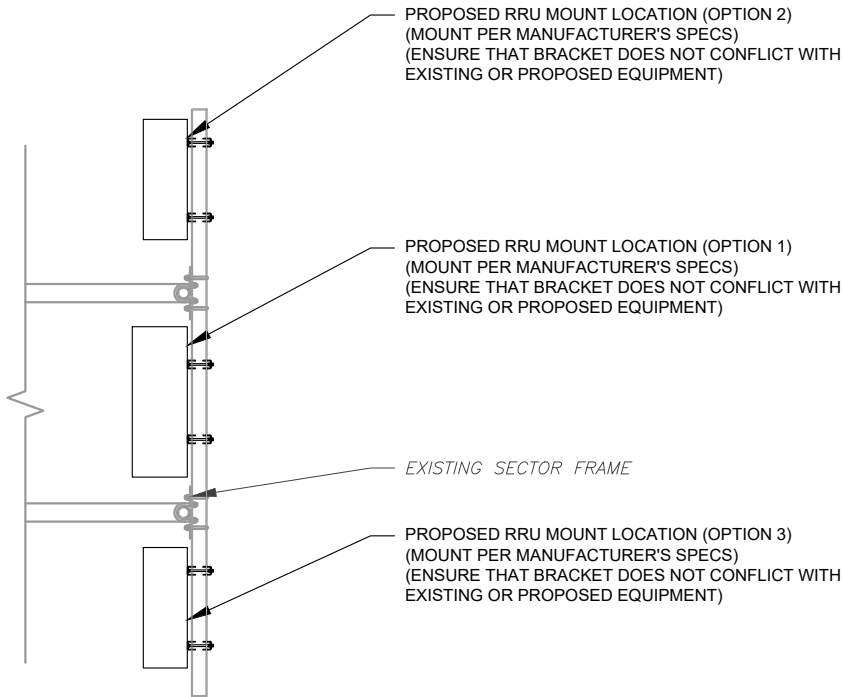
DATE DRAWN: 09/20/21  
ATC JOB NO: 13694528\_G3  
CUSTOMER ID: WOODS CHAPEL ATC  
CUSTOMER #: A5C0406A

ANTENNA INFORMATION & SCHEDULE

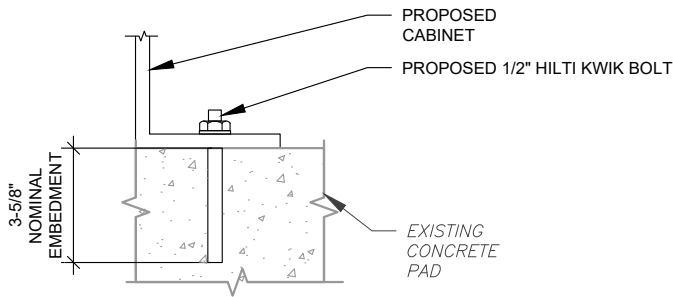
SHEET NUMBER: C-401  
REVISION: 0



1 PROPOSED 5G ANTENNA MOUNTING DETAIL - TYPICAL  
SCALE: N.T.S.



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



NOTE:  
INSTALL HILTI KWIK BOLT ANCHORS STRICTLY PER  
INSTALLATION INSTRUCTIONS INCLUDED WITH PRODUCT OR  
FOUND ONLINE AT WWW.US.HILTI.COM. PROPER  
INSTALLATION IS CRITICAL FOR FULL PERFORMANCE.

3 CABINET ATTACHMENT DETAIL  
SCALE: NOT TO SCALE

RELEASED FOR  
CONSTRUCTION  
As Noted on Plans Review  
Development Services Department  
Lee's Summit, Missouri  
11/09/2021



AMERICAN TOWER®



ARIA  
SERVICES, INC.  
(281) 797-4387  
www.aria-corp.com

THE USE AND PUBLICATION OF THESE DRAWINGS 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 PROHIBITED. 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 OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.

REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	AL	09/20/21

ATC SITE NUMBER:  
306042

ATC SITE NAME:  
WOODS CHAPEL

T-MOBILE SITE NAME:  
WOODS CHAPEL ATC

SITE ADDRESS:  
1204 N.E. WOODS CHAPEL ROAD  
LEES SUMMIT, MO 64064-1989

SEAL:



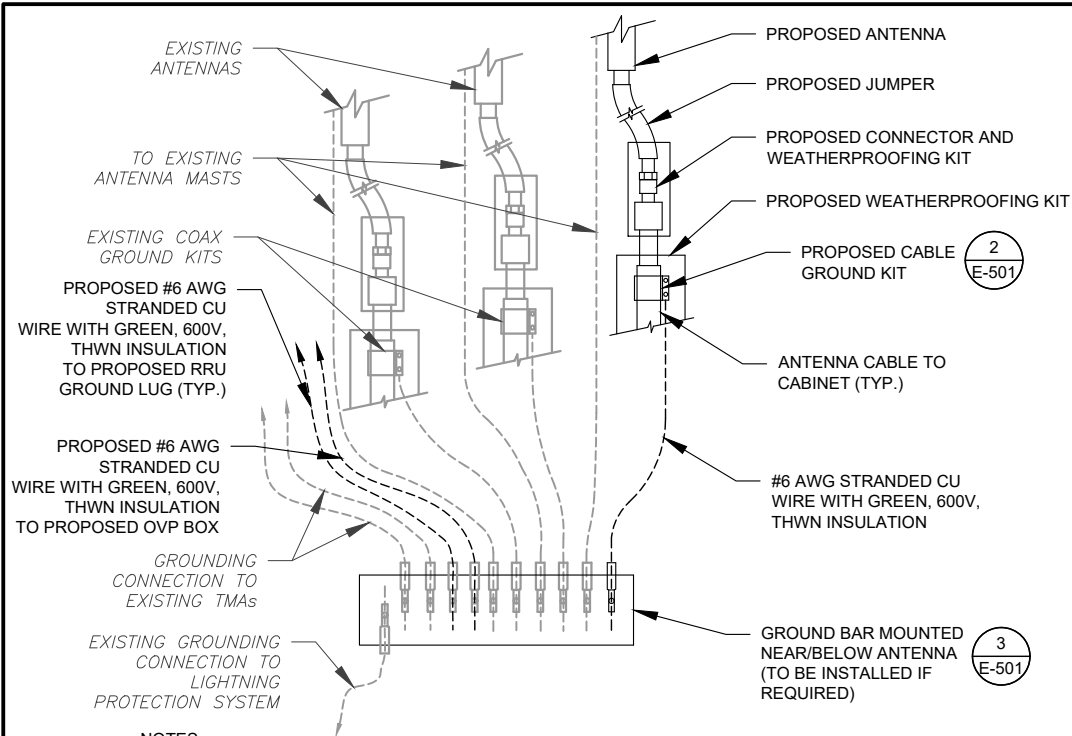
09/20/2021

T Mobile

DATE DRAWN:	09/20/21
ATC JOB NO:	13694528_G3
CUSTOMER ID:	WOODS CHAPEL ATC
CUSTOMER #:	A5C0406A

CONSTRUCTION  
DETAILS

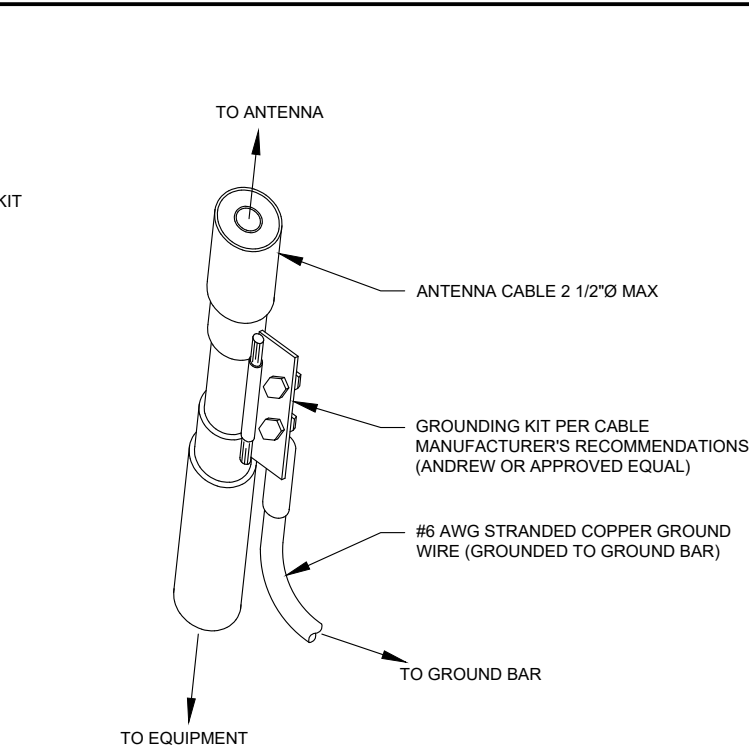
SHEET NUMBER:	REVISION:
C-501	0



NOTES:

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

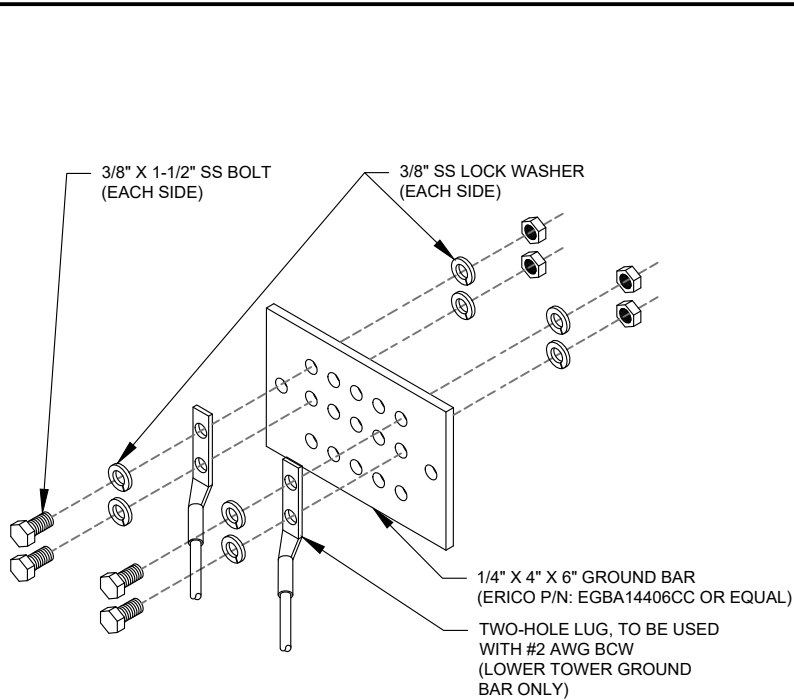
1 TYPICAL ANTENNA GROUNDING DIAGRAM  
SCALE: N.T.S.



GROUND KIT NOTES:

- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
- CONTRACTOR SHALL PROVIDE WEATHERPROOFING KIT (ANDREW PART NUMBER 221213) AND INSTALL/TAPE PER MANUFACTURER'S SPECIFICATIONS.

2 CABLE GROUND KIT CONNECTION DETAIL  
SCALE: N.T.S.



GROUND BAR NOTES:

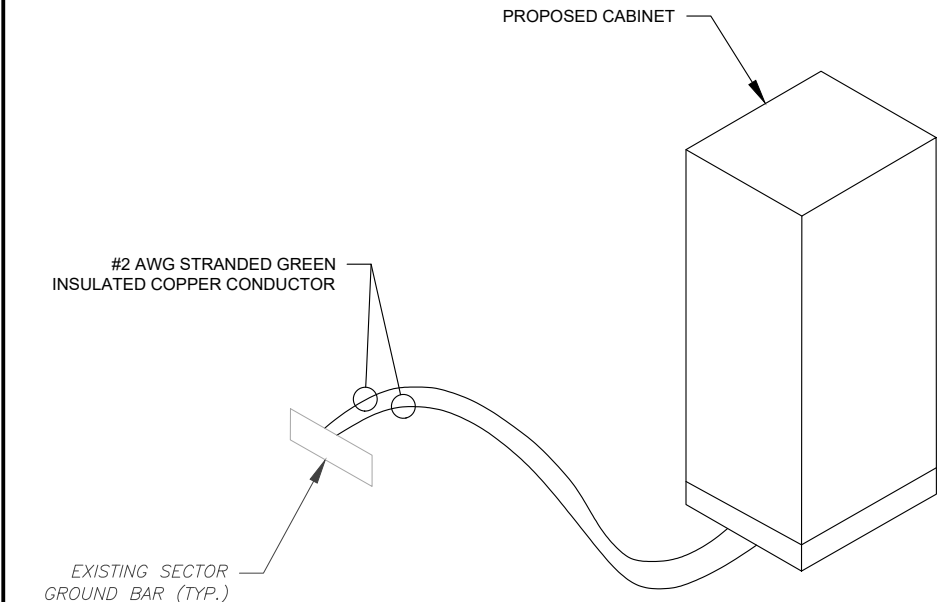
- GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
- GROUND BAR TO BE BONDED DIRECTLY TO TOWER.

3 TOWER GROUND BAR DETAIL  
SCALE: N.T.S.

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

Development Services Department  
Lee's Summit, Missouri

11/09/2021



4 CABINET GROUNDING DETAIL  
SCALE: N.T.S.

ELECTRICAL NOTES:

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE T-MOBILE REPRESENTATIVE AND LOCAL UTILITY COMPANY FOR THE INSTALLATION OF CONDUITS, CONDUCTORS, BREAKERS, DISCONNECTS, OR ANY OTHER EQUIPMENT 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 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 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"

THE USE AND PUBLICATION OF THESE DRAWINGS 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 PROHIBITED. 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 OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.

REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	AL	09/20/21
1			
2			
3			
4			

ATC SITE NUMBER:  
**306042**

ATC SITE NAME:  
**WOODS CHAPEL**

T-MOBILE SITE NAME:  
**WOODS CHAPEL ATC**

SITE ADDRESS:  
1204 N.E. WOODS CHAPEL ROAD  
LEES SUMMIT, MO 64064-1989

SEAL:



**T Mobile**

DATE DRAWN:	09/20/21
ATC JOB NO:	13694528_G3
CUSTOMER ID:	WOODS CHAPEL ATC
CUSTOMER #:	A5C0406A

GROUNDING DETAILS

SHEET NUMBER:	REVISION:
<b>E-501</b>	<b>0</b>

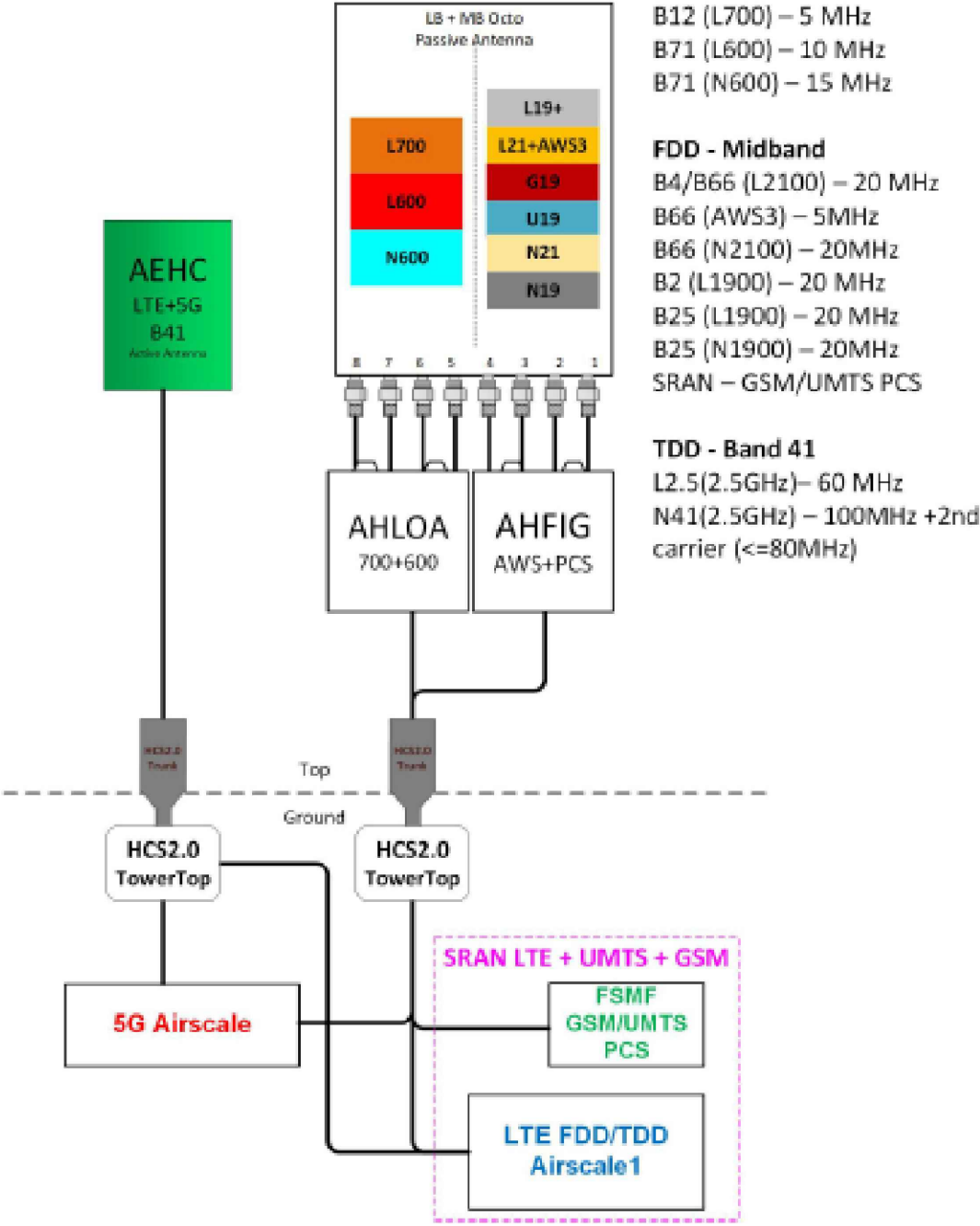


Configuration 56791EZ\_SR

\* For 5G and LTE Aircscale BB dimensioning refer to Fiber Port matrices.  
(Alpha, Beta & Gamma)

5/3/2021A5CD406A\_Anchor\_4\_2021-05-03

Proposed RAN Equipment				
Template: 56791EZ_SR				
Enclosure	1	2	3	4
Enclosure Type	Generic 600A Site Support Cabinet	Tower Top Mount (Nokia)	Ancillary Equipment (Nokia)	Generic Battery Cabinet for 600A SSC
Baseband	ASIB (L700, L800, L2100, L1900) ASIK (N2500, N800, N2100, N1900) FSMF (U1900, G1900)			
Baseband Submodule	ABIA (x 2) (L2100, L1900) ABIC (x 3) (L2500) ABIL (x 3) (L700, L800, N2500, N800) ABIL (x 2) (N2100, N1900)			
Baseband Subrack	AMIA (x 2)			
Hybrid Cable System	Voltage Booster needed if hybrid under 250' Extra Booster Amplifier needed if hybrid under 250'		Nokia HCS 2.0 Trunk "Select Length" NSN High Cap HCS "Select Length"	
Junction Box		Large COVP (Nokia)	Nokia HCS 2.0 Tower Junction Box Large COVP (Nokia)	
Power subsystem	Rectifier Shelf "Select size" Breakers "Select size"			Batteries "Select size"
Radio		AHLOA (x 3) (L700, L800, N800) AHFIG (x 3) (U1900, L2100, L1900, G1900, N2100, N1900)		
Transport System	C8R (XRe V2 (Gen2))			



1 CABINET CONFIGURATION  
SCALE: N.T.S.

2 ANTENNA CONFIGURATION  
SCALE: N.T.S.

SUPPLEMENTAL

SHEET NUMBER:

R-601

REVISION:

0

NOTE: THIS SHEET CREATED BY OTHERS AND PROVIDED BY REQUEST OF CUSTOMER WITHOUT EDIT.

RELEASED FOR  
CONSTRUCTION  
As Noted on Plans Review

Development Services Department  
Lee's Summit, Missouri

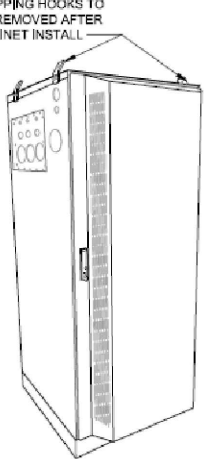
11/09/2021

MANUFACTURER: DELTA  
MODEL: HPL3 SITE SUPPORT  
CABINET  
WEIGHT: 551 LBS (WITHOUT  
EQUIPMENT)  
DIMENSIONS: 30.0"x35.0"x72.0"

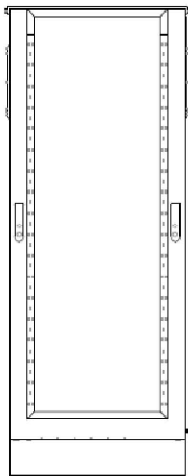
- NOTE:
- CORRECT KNOCKOUT TOOL REQUIRED FOR PUNCHING KNOCKOUTS. DO NOT DRILL KNOCKOUTS THROUGH
  - CONDUIT MUST BE PROPERLY SECURED TO PREVENT DAMAGE TO CABINETS AND/OR CABLING

RACK ASSIGNMENT		
RU SLOT	DESCRIPTION	DESCRIPTION
27		CSR-SAR/SAS
26		
25		
24	AIRSCALE	
23		
22	FIBER MUX	CSR-SAR/SAS
21		
20	AIRSCALE	
19		
18	FIBER MUX	
17		CSR-SAR/SAS
16	AIRSCALE	
15		
14	FIBER MUX	
13		
12	AIRSCALE	CSR-SAR/SAS
11		
10	FIBER MUX	
9		
8	LEGACY BASEBAND	
7		CSR-SAR/SAS
6	LEGACY BASEBAND	
5		
4	LEGACY BASEBAND	
3		
2	LEGACY BASEBAND	CSR-SAR/SAS
1		

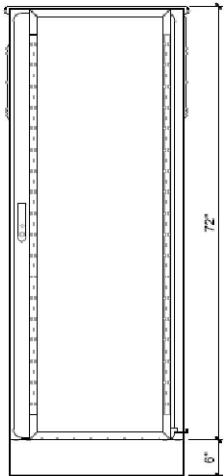
SHIPPING HOOKS TO  
BE REMOVED AFTER  
CABINET INSTALL



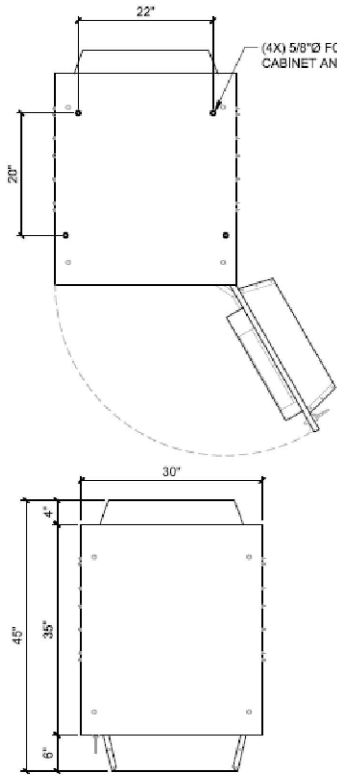
ISO VIEW N.T.S.



REAR VIEW



FRONT VIEW



PLAN VIEW

(4X) 5/8"Ø FOR  
CABINET ANCHORAGE

KNOCKOUT

DC CABLES  
(RED)

FIBER CABLES  
(YELLOW)

KNOCKOUT

ETHERNET  
CABLES  
(BLUE)

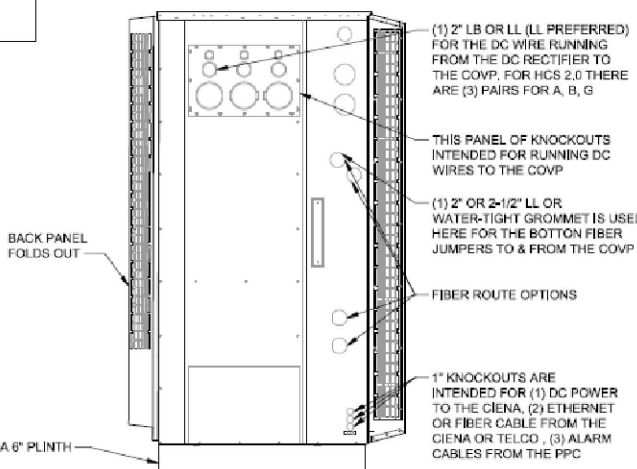
KNOCKOUT

ACCESS  
PANEL

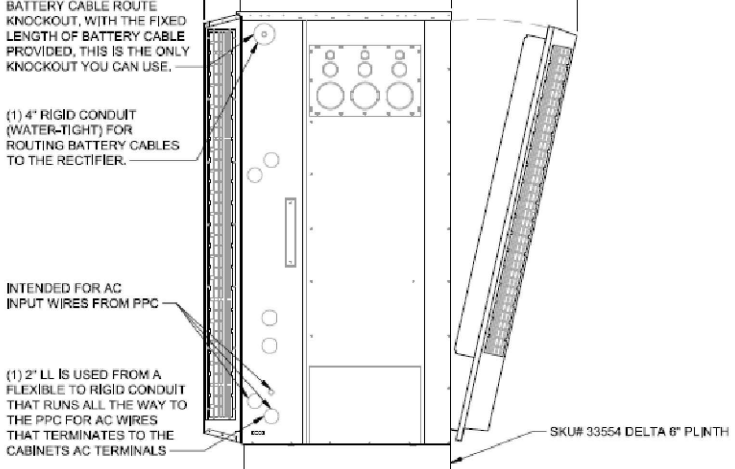
INTERNAL ROUTING

SKU# 33554 DELTA 6in PLINTH  
PLAN VIEW

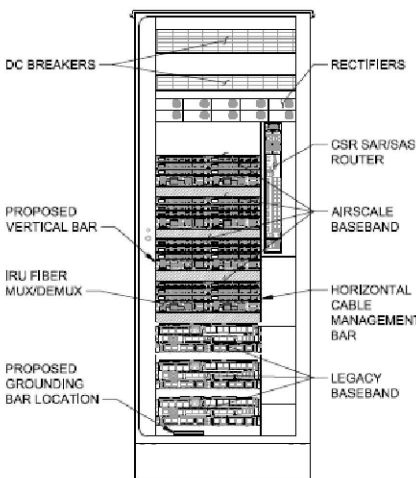
SKU# 33554 DELTA 6in PLINTH  
SIDE VIEW



LEFT VIEW



RIGHT VIEW



FRONT VIEW  
(OPEN)

SKU# 33929 - DELTA HPL3 SITE SUPPORT CABINET

22"x34" SCALE: N.T.S. 11"x17" SCALE: N.T.S.

1

SUPPLEMENTAL

SHEET NUMBER:

R-602

REVISION:

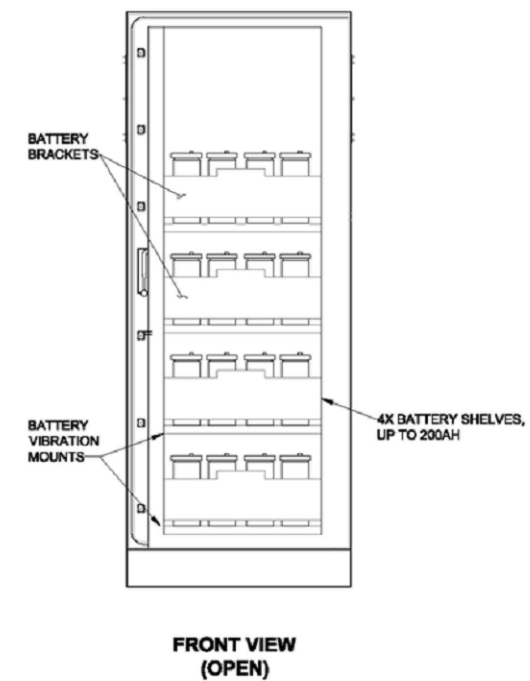
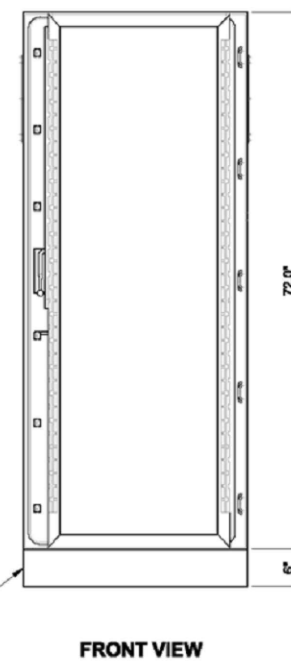
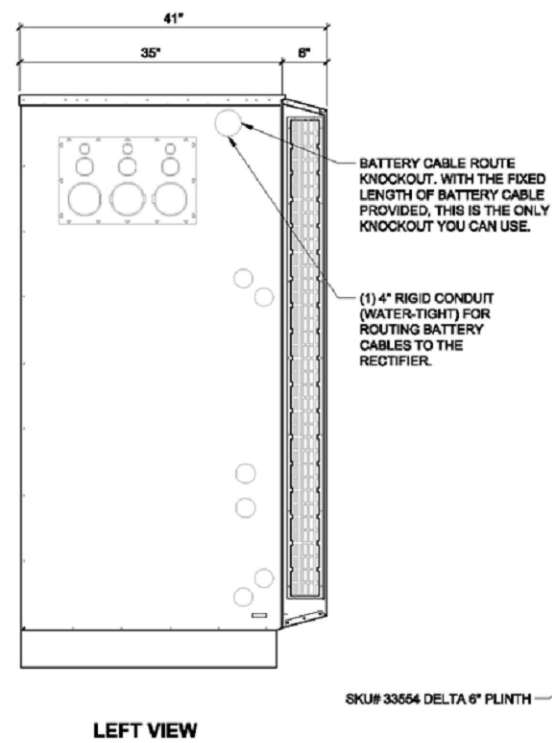
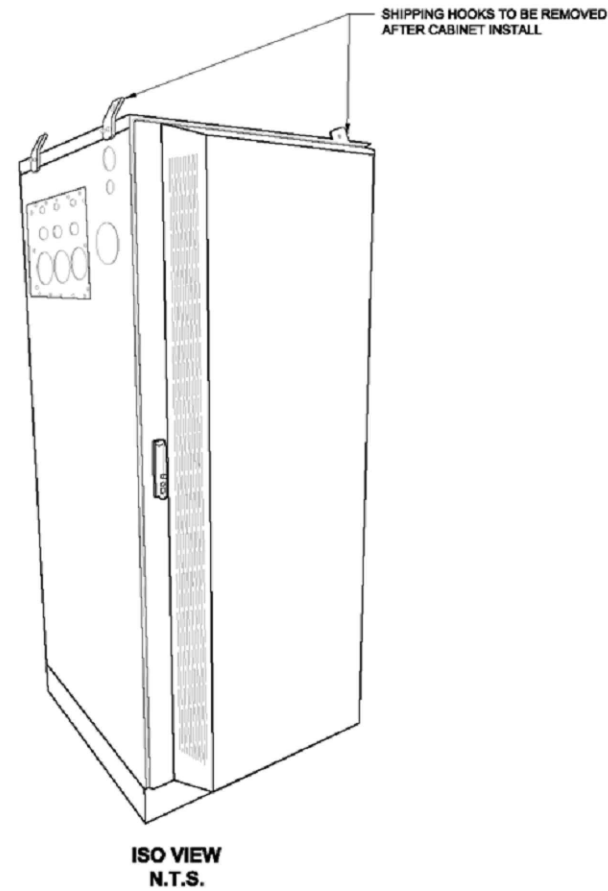
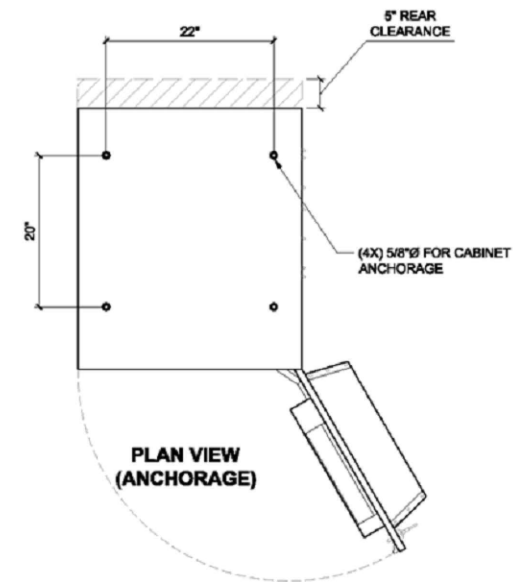
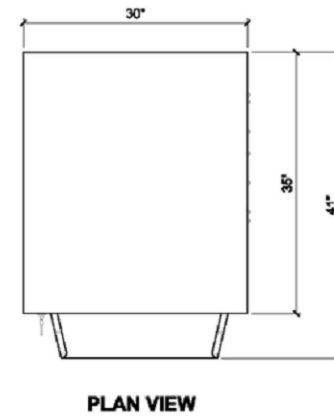
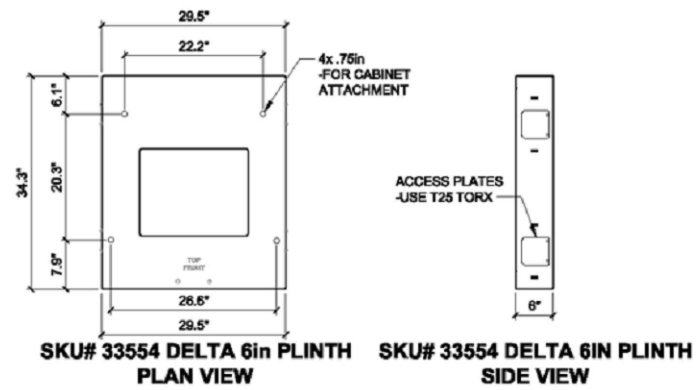
0

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT.

MANUFACTURER: DELTA  
MODEL: LB3 BATTERY SUPPORT CABINET  
WEIGHT: 509 LBS (WITHOUT EQUIPMENT)  
DIMENSIONS: 30.0"x35.0"x72.0"

NOTE:

- CORRECT KNOCKOUT TOOL REQUIRED FOR PUNCHING KNOCKOUTS. DO NOT DRILL KNOCKOUTS THROUGH
- CONDUIT MUST BE PROPERLY SECURED TO PREVENT DAMAGE TO CABINETS AND/OR CABLING



SKU# 33932 - DELTA LB3 BATTERY SUPPORT CABINET

22"x34" SCALE: N.T.S. 11"x17" SCALE: N.T.S.

1

SUPPLEMENTAL

SHEET NUMBER:

R-603

REVISION:

0

NOTE: THIS SHEET CREATED BY OTHERS AND PROVIDED BY REQUEST OF CUSTOMER WITHOUT EDIT.



AEHC AirScale MAA 64T64R 192AE B41 320W  
Preliminary technical data

Specification	Details
Standard	3GPP NR and LTE compliant, TDD, FCC compliant
Band / Frequency range	2496 - 2690 MHz 3GPP B41
Max. supported modulation	256 QAM
Number of TX/RX paths	64T / 64R
MIMO streams	16
Instantaneous bandwidth IBW	194 MHz
Occupied bandwidth OBW	190 MHz
Total average EIRP	79 dBm
Max. output power per TRX	5 W / TRX (320 W total)
Dimensions	970 mm (H) x 545 mm (W) x 205 mm (D)
Volume	108 l
Weight	47 kg (without mounting brackets)
Supply voltage / Connector type	DC -36 V ... -60 V / 2 pole connector
Power consumption	≤1300 W typical (75% DL duty cycle, 30% RF load) ≤1700 W max (75% DL duty cycle, 100% RF load)
Optical ports	4 x SFP28, 10/25GE eCPRI (with R2CT)
Other interfaces / Connector type	RF monitor port / SMA, Control AISG, External Alarms / MDR26, status LED
Operational temperature range	-40 °C ... +55 °C
Cooling	Natural convection cooling
Installation options	Pole / Wall, ± 5° vertical / ± 6° horizontal adjustment
Ingress / Surge protection	IP65, Class II 20 kA

1 © 2018 Nokia

AirScale High Power MAA  
benefits

- 5G Adaptive Antenna System for optimized capacity and coverage
- Digital beamforming for multi-user MIMO
- Connectivity with AirScale BBU (via eCPRI)
- Beamforming capable 64T64R with total 320W output power

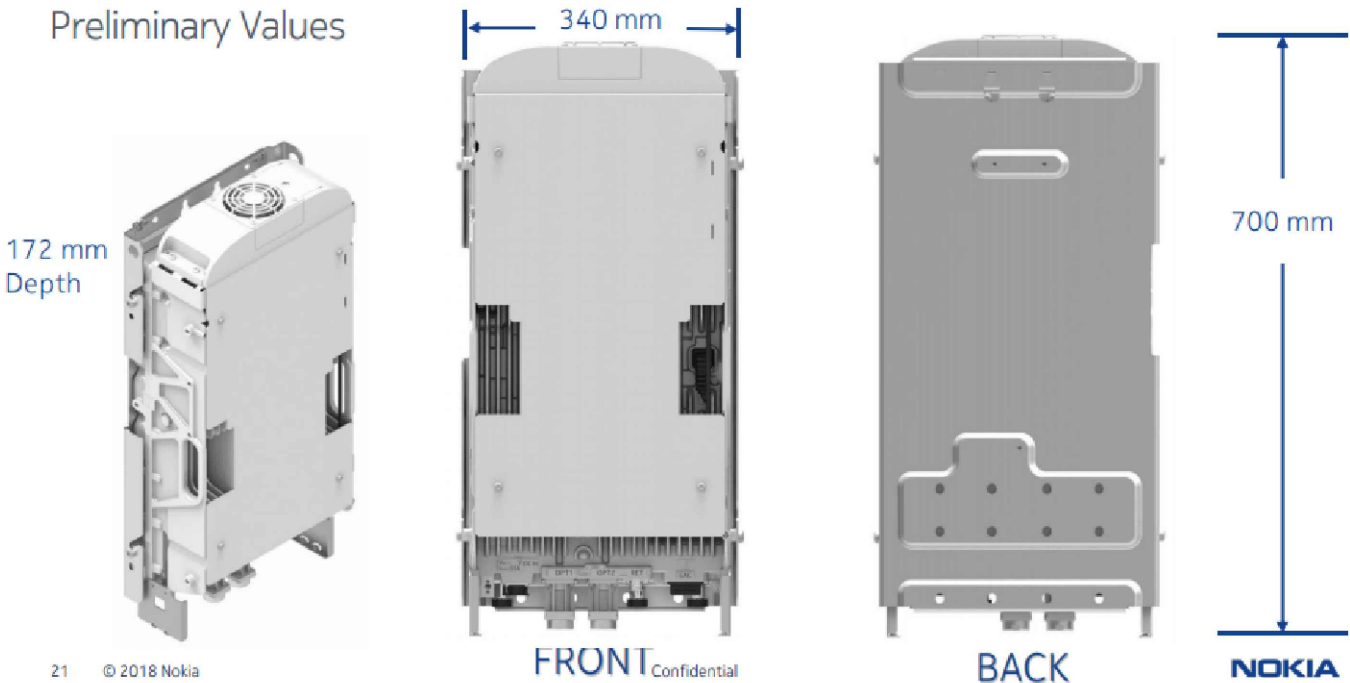


AEHC 475124A NOKIA

RELEASED FOR  
CONSTRUCTION  
As Noted on Plans Review  
  
Development Services Department  
Lee's Summit, Missouri  
  
11/09/2021

1 PROPOSED ANTENNAS  
SCALE: N.T.S.

Full Dimensions of AHFIG  
Preliminary Values



21 © 2018 Nokia

2 PROPOSED RRUS  
SCALE: N.T.S.

NOTE: THIS SHEET CREATED BY OTHERS AND PROVIDED BY REQUEST OF CUSTOMER WITHOUT EDIT.

SUPPLEMENTAL

SHEET NUMBER: R-604	REVISION: 0
------------------------	----------------

Breakout Feature General Specifications

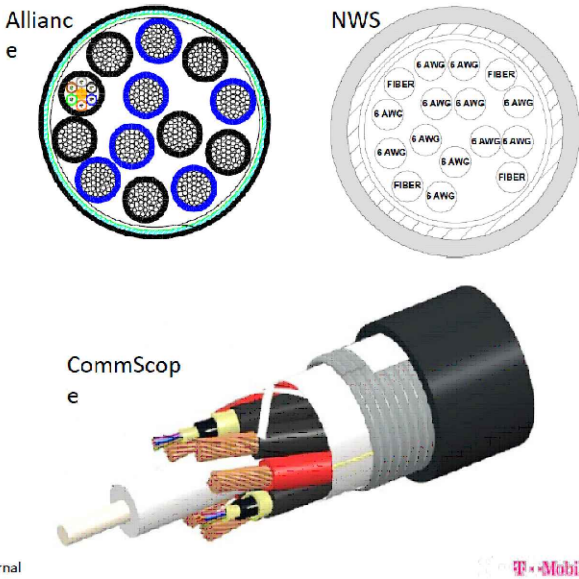
Characteristic s	Alliance	CommScope	NWS
Dimensions, in.	9.3x14.9x5.8	6.7x16.9x4.7	10.2x16.0x3.2
Weight	1.61 lb/ft	0.970 lb/ft	1.61 lb/ft
Port Interface	Senko U	Senko U	Senko U
Hybrid Ports	12	12	12
Conductor Termination	None	None	None
Single Mode Fibers	48	48	48
Fiber Termination	LC pair	LC pair	LC pair
Max RRU	12	12	12



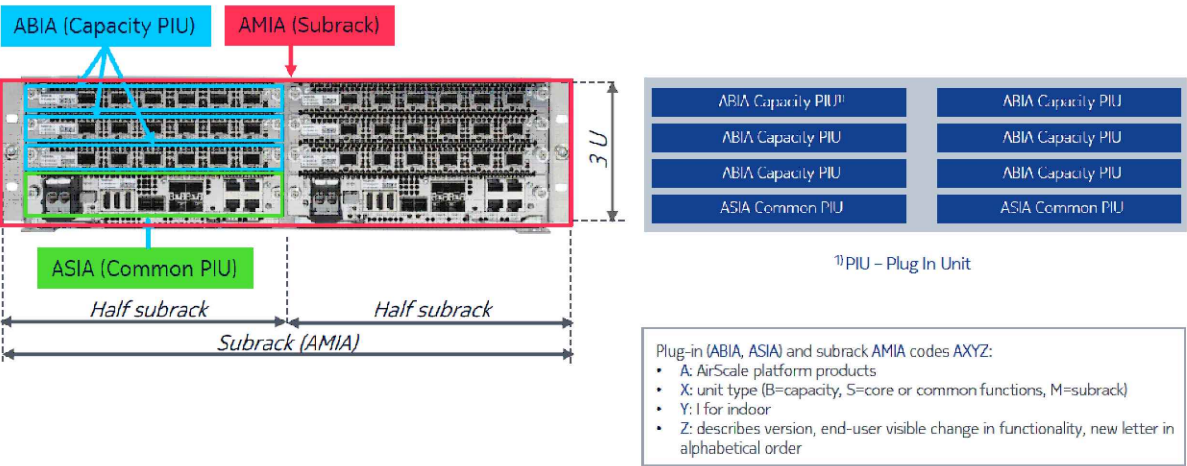
Slide / 13 T-Mobile Internal

Trunk Cable General Specifications

Characteristic s	Alliance	CommScope	NWS
Outer Diam.	1.46"	1.55"	1.48"
Weight	1.61 lb/ft	1.71 lb/ft	1.61 lb/ft
Min. Bend Rad	14.6"	18.6"	21.5"
DC Conductors	12 x 6AWG	12 x 6AWG	12 x 6AWG
Armor	Corrugated Cu	Corrugated Al	Cu tape, PVC
Conductor Termination	None	None	None
Single-Mode Fibers	48	48	48
Fiber Termination	LC pair	LC pair	LC pair

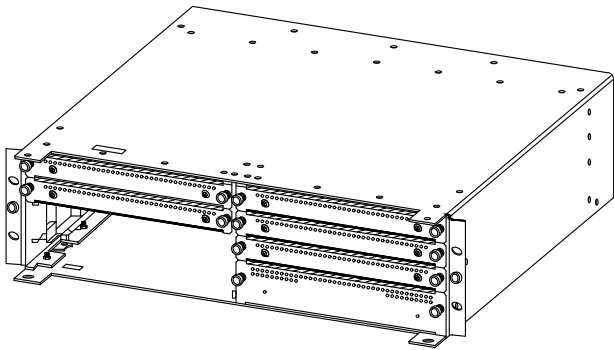


AirScale System Module - general overview



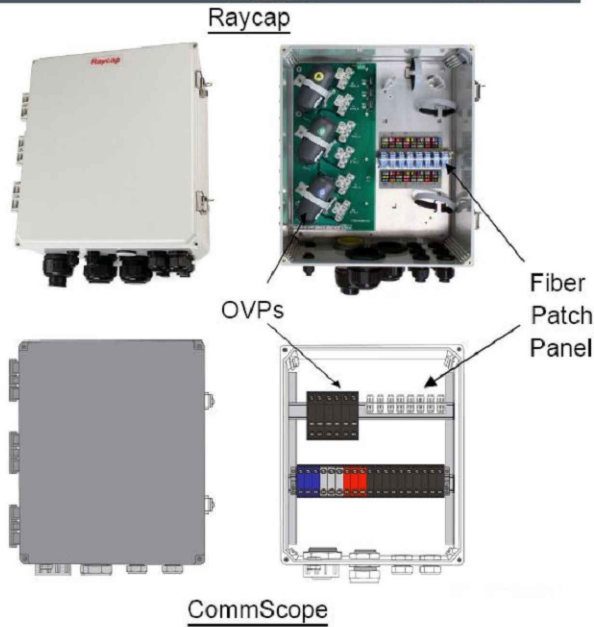
2 © Nokia 2016 Nokia Internal Use

MANUFACTURER:	NOKIA
MODEL:	AMIA
WEIGHT:	11.2 LBS (UNIT ONLY)
DIMENSIONS:	5.1"X15.7"X17.6"



Bottom Junction Box General Specifications

Characteristics	CommScope	Raycap
Dimensions	14"x16"x8"	14"x16"x8"
Weight	23.5 lb	21.9 lb
OVP, IEC 61643-1	24"	Class I SPD (3)
UL Rating		1449, 4 <sup>th</sup> Ed.
OVP Monitoring	Dry contact	Dry contact
Fiber Patch Panel	24 LC pairs	24 LC pairs
Environmental Rating	IP67	IP66
Operating Temperature	-40 °C to +75 °C	-40 °C to +80 °C



RELEASED FOR CONSTRUCTION As Noted on Plans Review

Development Services Department Lee's Summit, Missouri

11/09/2021

SUPPLEMENTAL

SHEET NUMBER:

R-605

REVISION:

0

NOTE: THIS SHEET CREATED BY OTHERS AND PROVIDED BY REQUEST OF CUSTOMER WITHOUT EDIT.



This report was prepared for American Tower Corporation by



## Antenna Mount Modification Report

ATC Site Name : Woods Chapel

ATC Asset Number : 306042

Engineering Number : 13694528\_C9\_04

Mount Elevation : 126.5 ft

Carrier : T-Mobile

Carrier Site Name : Woods Chapel ATC

Carrier Site Number : A5C0406A

Site Location : 1204 N.E. Woods Chapel Road  
Lees Summit, MO 64064-1989  
38.98321389, -94.35006389

County : Jackson

Date : September 2, 2021

Max Usage : 62%

Result : Pass (Pending Mods)

Prepared By:  
Kowsalya V  
Telamon CLS

Reviewed By:  
Tyler M. Barker, P.E.  
Telamon CLS



Mount Modification for American Tower  
306042 - Woods Chapel

September 2, 2021  
Telamon CLS Project #41124-13694528\_C9\_04-02-MOD

### Conclusion

Based on the analysis, the antenna mount meets the requirements per the applicable codes listed above. The mounting configuration considered in this analysis will be capable of supporting the referenced loading pursuant to referenced standards once the referenced modifications are installed.

### This analysis incorporates modifications per Telamon CLS, dated September 02, 2021.

- Install (1) proposed Site Pro 1 PRK-1245 as specified. Field-cut proposed angles as required. Maintain minimum bolt edge distance. Do not pinch safety climb. Resecure coax after the installation of proposed modifications.
- Replace existing mount pipe at position 3 in alpha and gamma sectors and at position 2 in beta sector with proposed pipe for proposed panel configuration (3 total) as shown. Connect to platform base horizontals using Site Pro 1 SP219 crossover kits (3 total). Connect to support rails using Site Pro 1 SCX1-K crossover plate kits (3 total).

If you have any questions or require additional information, please contact American Tower via email at Engineering@americantower.com. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.

RELEASED FOR  
CONSTRUCTION  
As Noted on Plans Review

Development Services Department  
Lee's Summit, Missouri

11/09/2021

SUPPLEMENTAL

SHEET NUMBER:

R-606

REVISION:

0





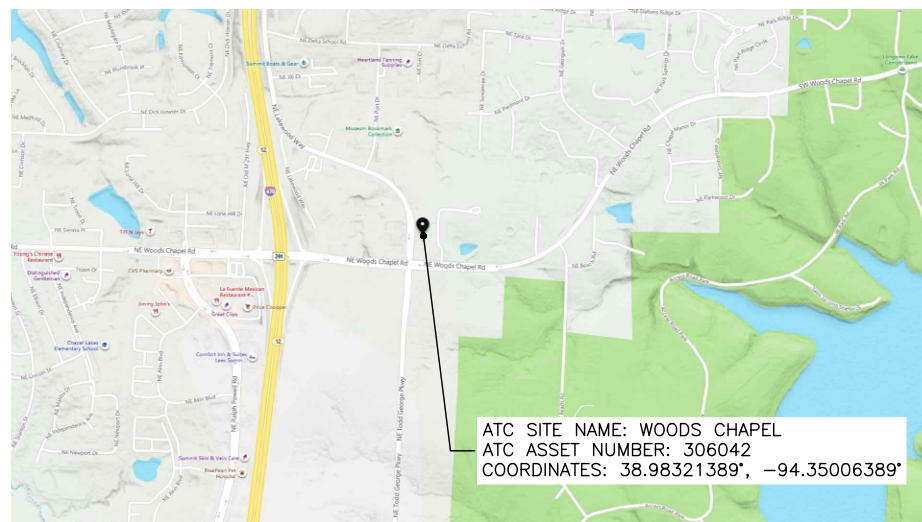
CARRIER SITE NAME: WOODS CHAPEL ATC  
CARRIER SITE NUMBER: A5C0406A  
ATC SITE NAME: WOODS CHAPEL  
ATC ASSET NUMBER: 306042  
ENGINEERING NUMBER: 13694528\_C9\_04  
STRUCTURE TYPE: 150'-0" MONOPOLE  
PROJECT SCOPE: MOUNT REINFORCEMENT

RELEASED FOR  
CONSTRUCTION  
As Noted on Plans Review  
  
Development Services Department  
Lee's Summit, Missouri  
  
11/09/2021

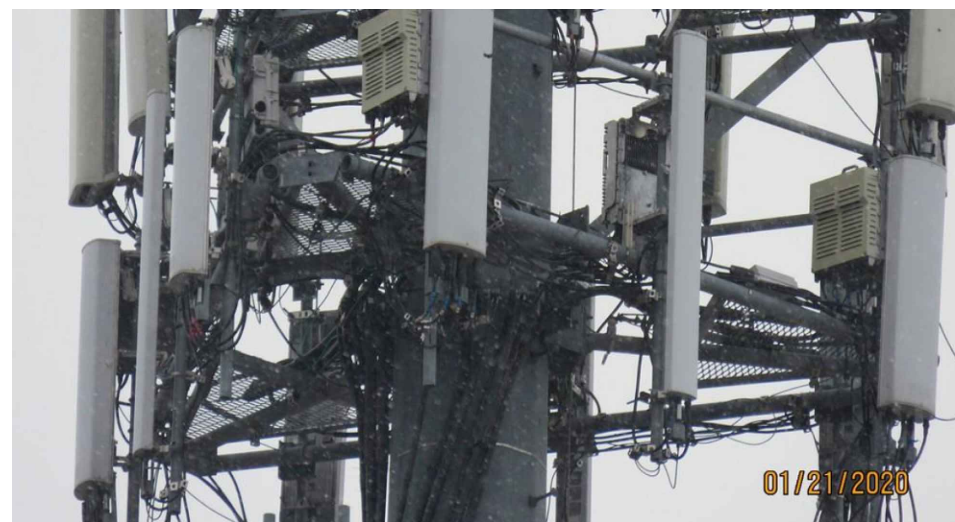


319 CHAPANOKE RD, SUITE 118  
RALEIGH, NC 27603  
PH: (405)348-5460 FAX: (405)341-4625  
TELAMON CLS PROJECT ID: 41124-306042-13694528  
COA# 2010039825 EXP. 12/31/2022

### LOCATION MAP



### STRUCTURE ELEVATION PHOTOGRAPH



### DRAWING INDEX

SHEET	SHEET DESCRIPTION	REV
T-1	TITLE SHEET & DRAWING INDEX	0
GN-1	STRUCTURAL NOTES	0
IN-1	MODIFICATION INSPECTION NOTES	0
S-1	MOUNT VIEWS & MODIFICATION SCHEDULE	0
S-2	MODIFICATION DETAIL VIEWS	0

### SCOPE OF WORK

- THIS MODIFICATION PLAN HAS BEEN DESIGNED UTILIZING THE STRUCTURAL ANALYSIS BY TELAMON CLS, REPORT #41124-13694528\_C9\_04-02-MOD, DATED SEPTEMBER 02, 2021.
- FULL MODIFICATION SCHEDULE CAN BE FOUND ON S-1.
- CONTRACTOR SHALL SCHEDULE A SITE VISIT TO CONFIRM ALL EXISTING STRUCTURE DIMENSIONS, SITE CONSTRAINTS, PROPOSED REINFORCING DIMENSIONS, THE CLEARANCES OF THE PROPOSED REINFORCING, EXISTING FOUNDATION INFORMATION, EXISTING SITE UTILITIES, AND ALL OTHER INFORMATION NECESSARY TO PERFORM THE WORK ON THESE DRAWINGS IN ORDER TO ELIMINATE THE RISK OF RFIS ONCE CONSTRUCTION AND FABRICATION HAVE BEGUN. THE CONTRACTOR SHALL NOT BEGIN FABRICATION OR CONSTRUCTION PRIOR TO PERFORMING THIS SITE VISIT AND VALIDATING THE INFORMATION ON THESE DRAWINGS AND ANY ADDITIONAL INFORMATION THE CONTRACTOR NEEDS TO PERFORM THE WORK.
- THE CONTRACTOR SHALL PERFORM THIS PRE-CONSTRUCTION WORK AND REPORT ALL DISCREPANCIES TO THE CUSTOMER AND THE ENGINEER OF RECORD OR BE LIABLE FOR THE LABOR & MATERIALS FOR DISCREPANCIES NOT CAUGHT BY THE CONTRACTOR'S DUE DILIGENCE SITE VISIT.

### CODE COMPLIANCE

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES.

STRUCTURAL CODE: IBC 2018  
DESIGN STANDARD: TIA-222-H

### REVISIONS

REV.	DATE	DESCRIPTION	INITIALS
A	09/01/21	PRELIMINARY ISSUE	HRP
0	09/02/21	FOR CONSTRUCTION	HRP



Tyler M. Barker  
CLS Group  
PE # PE-2014023899 Exp. 12/31/2022  
COA # 2010039825 Exp. 12/31/2022

PE-2014023899 EXP: 12/31/2022

### ATC SITE NAME:

WOODS CHAPEL

ATC ASSET#: 306042

1204 N.E. WOODS CHAPEL ROAD  
LEES SUMMIT, MO 64064-1989

### SHEET TITLE

TITLE SHEET &  
DRAWING INDEX

### SHEET NUMBER

T-1

### DRIVING DIRECTIONS

#### DEPART FROM LEE'S SUMMIT MUNICIPAL AIRPORT:

HEAD SOUTH ON NE DOUGLAS ST TOWARD NW LEES SUMMIT RD 0.7 MI, TURN LEFT ONTO NW LEES SUMMIT RD 0.1 MI, ROAD NAME CHANGES TO NE DOUGLAS ST 0.6 MI, TAKE THE RAMP ON THE LEFT FOR I-470 NORTH AND HEAD TOWARD INDEPENDENCE 1.3 MI, ROAD NAME CHANGES TO I-470 N 1.9 MI, HEAD RIGHT ON THE RAMP FOR WOODS CHAPEL ROAD TOWARD FLEMING PARK 0.2 MI, TURN RIGHT ONTO NE WOODS CHAPEL RD TOWARD FLEMING PARK 0.3 MI, TURN LEFT ONTO NE LAKEWOOD WAY 26 FT, KEEP STRAIGHT TO GET ONTO NE LAKEWOOD WAY 361 FT, ARRIVE AT YOUR DESTINATION ON THE RIGHT.

### DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS, CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OR ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR THE SAME.

### PROJECT TEAM

ENGINEER/ARCHITECT:  
TELAMON CLS  
319 CHAPANOKE ROAD, SUITE 118  
RALEIGH, NC 27603  
(405) 348-5460

APPLICANT/CUSTOMER:  
T-MOBILE  
12920 SE 38TH STREET  
BELLEVUE, WA 98006

STRUCTURE OWNER:  
AMERICAN TOWER  
10 PRESIDENTIAL WAY  
WOBURN, MA 1801  
SEAN O'BRIEN  
(781) 926-6980

OWNER SITE NAME:  
WOODS CHAPEL  
  
OWNER SITE NUMBER:  
306042

### ONE CALL



CALL MISSOURI ONE CALL  
3 WORKING DAYS BEFORE YOU DIG  
1-800-DIG-RITE, 811, OR mo1call.com

### PROJECT INFORMATION

STRUCTURE TYPE:	MONOPOLE
STRUCTURE HEIGHT:	150'-0"
LATITUDE:	38.98321389° (NAD 83)
LONGITUDE:	-94.35006389° (NAD 83)
ADDRESS:	306042 - WOODS CHAPEL 1204 N.E. WOODS CHAPEL ROAD LEES SUMMIT, MO 64064-1989
COUNTY:	JACKSON
CODE JURISDICTION:	CITY OF LEES SUMMIT
GROUND ELEVATION:	973' AMSL



GENERAL NOTES

1. THESE MODIFICATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF TIA/EIA-222, ASCE 7, AWS, ACI, AND AISC. MATERIALS AND SERVICES PROVIDED BY THE CONTRACTOR SHALL CONFORM TO THE ABOVE-MENTIONED CODES AND THE CONTRACT SPECIFICATIONS.
2. ALL MATERIALS UTILIZED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS.
3. ALL PRODUCT OR MATERIAL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER SUITABLE TO DETERMINE IF SUBSTITUTE IS ACCEPTABLE FOR USE AND MEETS THE ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING MAINTENANCE, REPAIR AND REPLACEMENT, SHALL BE NOTED. ESTIMATES OF COSTS/CREDITS ASSOCIATED WITH THE SUBSTITUTION (INCLUDING RE-DESIGN COSTS AND COSTS TO SUB-CONTRACTORS) SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.
4. PROVIDE STRUCTURAL STEEL SHOP DRAWING(S) TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO FABRICATION.
5. UNLESS NOTED OTHERWISE, ALL NEW MEMBERS AND REINFORCING SHALL MAINTAIN THE EXISTING MEMBER WORK LINES AND NOT INTRODUCE ECCENTRICITIES INTO THE STRUCTURE.
6. ANY CONTRACTOR-CAUSED DAMAGE TO PROPERTY OF THE LAND OWNER, PROPERTY OF THE STRUCTURE OWNER, PROPERTY OF THE CUSTOMER, SITE FENCING OR GATES, ANY AND ALL UTILITY AND/OR SERVICE LINES, SHOWN OR NOT SHOWN ON THE PLANS, SHALL BE REPAIRED OR REPLACED AT THE SOLE COST OF THE CONTRACTOR AND SHALL BE ACCOMPLISHED BY THE CONTRACTOR OR SUBCONTRACTOR AS APPROVED BY THE ENGINEER OF RECORD AND LAND OWNER. DAMAGE TO EQUIPMENT OR PROPERTY OF ANY KIND BELONGING TO OTHER COMPANIES (BESIDES THE INDICATED CUSTOMER) SHALL BE ADDRESSED BY THE CONTRACTOR WITH THE COMPANIES THAT OWN THE DAMAGED ITEMS.

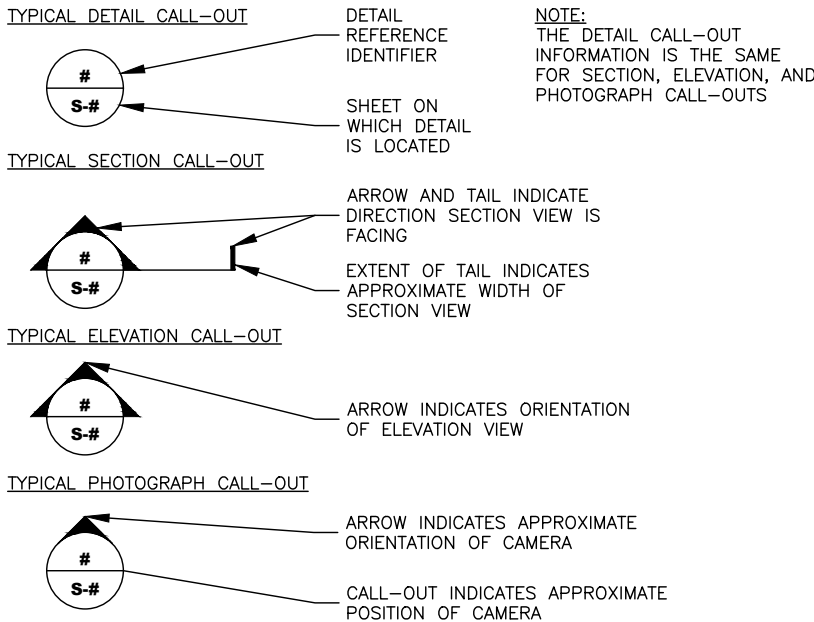
STRUCTURAL STEEL NOTES

1. STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING SPECIFICATIONS:
- A. STRUCTURAL STEEL SHAPES, PLATES AND BARS (EXCEPT W-SHAPES)- ASTM A36, Fy=36 KSI
- B. PIPES - ASTM A53, GRADE B, Fy=35 KSI
- C. HSS-SHAPES - ASTM A500, GRADE B, Fy=42 KSI (ROUND)  
Fy=46 KSI (SQUARE & RECTANGULAR)
- D. ANCHOR & ALL-THREAD RODS - ASTM F1554, GRADE 55
- E. STRUCTURAL BOLTS 1/2"Ø AND LARGER - ASTM A325
- F. STRUCTURAL BOLTS SMALLER THAN 1/2"Ø - DIMENSIONS: ASME B18.2.1  
MATERIAL: SAE J429 GRADE 5 | THREADING: ASME B1.1, UNC, CLASS 2A | FINISH: HOT-DIP GALVANIZED OR ZINC-PLATED
- G. SHEET METAL SCREWS - DIMENSIONS: ASME B18.6.3  
MATERIAL: SAE J933 | FINISH: HOT-DIP GALVANIZED OR ZINC-PLATED
- H. NUTS FOR BOLTS/ALL-THREAD - ASTM A563 (THREADING TO MATCH BOLT)
- I. WASHERS FOR BOLTS/ALL-THREAD - ASTM F436
- J. W & WT SHAPES - ASTM A36, Fy=36 KSI  
ALTERNATE SPEC: ASTM A992 (IF OTHER SPEC IS UNAVAILABLE)
2. STRUCTURAL BOLTS SHALL CONFORM TO THIS NOTE. ALL BOLT HOLES SHALL BE STANDARD SIZE BOLT HOLES PER AISC 360, UNLESS OTHERWISE NOTED. ALL HOLES SHALL BE SHOP DRILLED OR SUB-PUNCHED AND REAMED. BURNING OF HOLES IS NOT PERMITTED. WHERE SLOTTED OR OVERSIZE HOLES ARE SPECIFIED ON THE DRAWINGS, EXTRA-THICK ASTM F436 PLATE WASHERS SHALL BE USED (5/16" MINIMUM THICKNESS) WITH A DIAMETER SUITABLE TO COVER THE EXTENTS OF THE SLOT OR HOLE. BOLTS SHALL BE HEAVY-HEX WHERE AVAILABLE IN THE SIZE AND GRADE SPECIFIED, OTHERWISE BOLTS SHALL BE HEX HEAD CAP SCREWS.
3. ALL STEEL HARDWARE, INCLUDING ADHESIVE OR EMBEDDED ANCHOR BOLTS AND THEIR ACCESSORIES, SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A153 (EXCEPT BOLTS SMALLER THAN 1/2" SHALL CONFORM TO FE/ZN 3 AT PER ASTM F1941 WHERE HOT-DIP GALVANIZED BOLTS ARE NOT AVAILABLE). ALL STEEL MEMBERS, INCLUDING WELDMENTS, SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123. REPAIR DAMAGE TO GALVANIZED COATINGS USING ASTM A780 PROCEDURES WITH A ZINC RICH PAINT (SUCH AS ZRC GALVILITE) FOR GALVANIZING DAMAGED BY HANDLING, TRANSPORTING, CUTTING, WELDING, OR BOLTING. DO NOT HEAT SURFACES TO WHICH REPAIR PAINT HAS BEEN APPLIED. CALL OUT HOLES REQUIRED FOR HOT-DIP GALVANIZING ON SHOP DRAWINGS.
4. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 "STRUCTURAL WELDING CODE - STEEL". WELD ELECTRODES SHALL BE E70XX. UNLESS OTHERWISE NOTED, PROVIDE CONTINUOUS FILLET WELDS WITH MINIMUM SIZE OF 3/16 INCH OR OF A SIZE EQUAL TO THE THICKNESS OF THE THINNER MATERIAL BEING JOINED (WHICHEVER IS LESS). FOR ACUTE OR OBTUSE JOINT ANGLES, THE FILLET WELD LEG SIZE SHALL BE ADJUSTED AS REQUIRED TO MAINTAIN THE EFFECTIVE THROAT OF A 3/16 INCH FILLET WELD IN A 90° JOINT. ALL WELD SIZES SHOWN IN INCHES.
5. PRIOR TO WELDING, THE CONTRACTOR SHALL SUBMIT CERTIFICATION FOR EACH WELDER STATING THE TYPE OF WELDING AND POSITIONS QUALIFIED FOR, THE CODE AND PROCEDURE QUALIFIED UNDER, DATE QUALIFIED, AND THE FIRM AND INDIVIDUAL CERTIFYING THE QUALIFICATION TESTS. THIS INFORMATION SHALL BE SUBMITTED TO THE MODIFICATION INSPECTOR (SEE SHEET S-003) AS WELL AS ANY THIRD-PARTY CERTIFIED WELD INSPECTOR (CWI).
6. MEMBERS SHALL BE SHOP-FABRICATED AND WELDED TO THE EXTENT PRACTICABLE IN ORDER TO REDUCE FIELD INSTALLATION COSTS.

CONTRACTOR NOTES

1. PRIOR TO BEGINNING CONSTRUCTION, ALL CONTRACTORS AND SUBCONTRACTORS MUST ACKNOWLEDGE IN WRITING TO STRUCTURE OWNER THAT THEY HAVE OBTAINED, UNDERSTAND, AND WILL FOLLOW STRUCTURE OWNER STANDARDS OF PRACTICE, CONSTRUCTION GUIDELINES, ALL SITE AND STRUCTURE/TOWER SAFETY PROCEDURES, ALL PRODUCT LIMITATIONS AND INSTALLATION PROCEDURES USED ON SITE, AND PROPOSED MODIFICATIONS DESCRIBED. RECEIPT OF ACKNOWLEDGEMENT MUST OCCUR PRIOR TO BEGINNING CONSTRUCTION OR CLIMBING. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROVIDE THIS DOCUMENTATION FOR STRUCTURE OWNER ON COMPANY LETTERHEAD AND THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO OBTAIN THIS DOCUMENTATION FROM ANY SUBCONTRACTORS (ON SUBCONTRACTOR LETTERHEAD) AND DELIVER IT TO THE STRUCTURE OWNER.
2. IF THE CONTRACTOR DISCOVERS ANY EXISTING CONDITIONS THAT ARE NOT REPRESENTED ON THESE DRAWINGS, OR ANY CONDITIONS THAT WOULD INTERFERE WITH THE INSTALLATION OF THE MODIFICATIONS, THE ENGINEER OF RECORD SHALL BE CONTACTED IMMEDIATELY TO EVALUATE THE SIGNIFICANCE OF THE DEVIATION.
3. THE CONTRACTOR SHALL SOLICIT AND HIRE THE SERVICES OF A QUALIFIED MODIFICATION INSPECTOR PRIOR TO BEGINNING CONSTRUCTION. THE MODIFICATION INSPECTOR MAY BE AN EMPLOYEE OF THE CONTRACTOR'S FIRM, HOWEVER THE INSPECTOR'S ONLY DUTIES SHALL BE INSPECTION, TESTING, AND REPORT CREATION AS REQUIRED ON THE "MODIFICATION INSPECTION NOTES" SHEET. THE INSPECTOR SHALL BE QUALIFIED AS A REGISTERED PROFESSIONAL ENGINEER (PE) OR AS AN ENGINEERING INTERN (EI) OR ENGINEER IN TRAINING (EIT) UNDER THE SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER (PE). IT IS ALSO ACCEPTABLE FOR THE CONTRACTOR TO SUBCONTRACT THE MODIFICATION INSPECTOR DUTIES TO A THIRD PARTY FIRM MEETING THE ABOVE REQUIREMENTS.
4. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD AND TOWER OWNER OF THE PLANNED CONSTRUCTION & INSPECTION SCHEDULE, AS WELL AS ANY CHANGES TO THE SCHEDULE, WITHIN TWO BUSINESS DAYS OF THE COMPLETION OF THE SCHEDULE OR SCHEDULE REVISION BOTH PRIOR TO BEGINNING CONSTRUCTION AND DURING CONSTRUCTION AS THE SCHEDULE CHANGES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD WHEN PHASES OF CONSTRUCTION HAVE BEEN MOVED UP AND SHALL GIVE THE ENGINEER ADEQUATE NOTICE SO THAT THE ENGINEER OF RECORD MAY, AT THEIR DISCRETION, INSPECT PORTIONS OF THE WORK THAT ARE DEEMED CRITICAL TO THE INTEGRITY OF THE STRUCTURE. FAILURE TO PROVIDE THIS NOTICE MAY RESULT IN REJECTION OF THE CONTRACTOR'S WORK. THE CONTRACTOR SHALL ALSO NOTIFY THE ENGINEER OF RECORD AND THE STRUCTURE OWNER WHEN THE WORK HAS BEEN COMPLETED WITHIN 2 BUSINESS DAYS OF THE COMPLETION OF THE WORK AND ASSOCIATED MODIFICATION INSPECTIONS & TESTING.
5. IT IS ASSUMED THAT ANY STRUCTURAL MODIFICATION WORK SPECIFIED ON THESE PLANS WILL BE ACCOMPLISHED BY KNOWLEDGEABLE WORKMEN WITH TOWER CONSTRUCTION EXPERIENCE. THIS INCLUDES PROVIDING THE NECESSARY CERTIFICATIONS TO THE STRUCTURE OWNER AND ENGINEER INCLUDING BUT NOT LIMITED TO TOWER CLIMBER AND RESCUE CLIMBER CERTIFICATIONS, QUALIFIED WELDER CERTIFICATES, CERTIFIED WELDING INSPECTOR CREDENTIALS, ET CETERA.
6. THESE DRAWINGS DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, MEANS, TECHNIQUES, SEQUENCES AND PROCEDURES.
7. CONTRACTOR SHALL WORK WITHIN THE LIMITS OF THE STRUCTURE OWNER'S PROPERTY OR LEASE AREA AND APPROVED EASEMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY WORK IS WITHIN THESE BOUNDARIES. CONTRACTOR SHALL EMPLOY A SURVEYOR AS REQUIRED. ANY WORK OUTSIDE THESE BOUNDARIES SHALL BE APPROVED IN WRITING BY THE LAND OWNER PRIOR TO MOBILIZATION. CONSTRUCTION STAKING AND BOUNDARY MARKING IS THE RESPONSIBILITY OF THE CONTRACTOR.

SYMBOLS AND CALL-OUTS



STANDARD ABBREVIATIONS

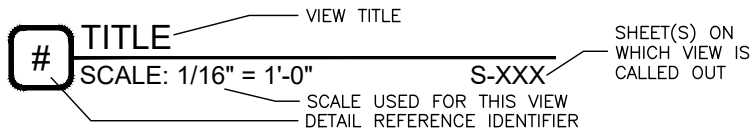
AFF	ABOVE FINISHED FLOOR	LONG	LONGITUDINAL
ARCH	ARCHITECT, -URAL	MAS	MASONRY
BLDG	BUILDING	MATL	MATERIAL
BOD	BOTTOM OF DECK	MAX	MAXIMUM
BOT	BOTTOM	MECH	MECHANICAL
BRCG	BRACING	MFR	MANUFACTURER
BRDG	BRIDGING	MIN	MINIMUM
C	CHANNEL	MOD	MODIFICATION
CL	CENTER LINE	MPH	MILES PER HOUR
CLR	CLEAR	MRI	MEAN RECURRENCE INTERVAL
CMU	CONCRETE MASONRY UNIT	#	NUMBER
CONC	CONCRETE	NTS	NOT TO SCALE
CONT	CONTINUOUS	OC	ON CENTER
DIA (Ø) ø	DIAMETER	OPH	OPPOSITE HAND
DWGS	DRAWINGS	OPNG	OPENING
EA	EACH	PC	PIECE
EL	ELEVATION	PL	PLATE
EQ, EQUIV	EQUAL, EQUIVALENT	PSF	POUNDS PER SQUARE FOOT
EW	EACH WAY	PSI	POUNDS PER SQUARE INCH
EXIST	EXISTING	REF	REFERENCE
' OR FT	FEET (DIMENSION)	REINF	REINFORCE/REINFORCEMENT
f'c	COMPRESSIVE STRESS	REQD	REQUIRED
FDN	FOUNDATION	REV	REVISION
FTG	FOOTING	SF	SQUARE FEET
GALV	GALVANIZED	SIM	SIMILAR
HORIZ	HORIZONTAL	SR	SOLID ROUND (SHAPE)
HSS	HOLLOW STRUCTURAL SHAPES	STD	STANDARD
		T&B	TOP AND BOTTOM
KIP	KILOPOUNDS (1000 LBS PER UNIT)	THK	THICKNESS
		TOF	TOP OF FOOTING
KSI	KIPS PER SQUARE INCH	TOM	TOP OF MASONRY
" OR IN	INCH	TOS	TOP OF STEEL
L	ANGLE	TYP	TYPICAL
LB	POUND	UON	UNLESS OTHERWISE NOTED
LLH	LONG LEG HORIZONTAL	VERT	VERTICAL
LLV	LONG LEG VERTICAL	W/	WITH

BOLT TIGHTENING PROCEDURE

1. TIGHTEN BOLTS BY AISC "TURN OF THE NUT" METHOD USING THE CHART BELOW:
- BOLT LENGTHS UP TO AND INCLUDING FOUR DIAMETERS:  
+1/3 TURN BEYOND SNUG TIGHT
- BOLT LENGTHS OVER FOUR AND UP TO EIGHT DIAMETERS:  
+1/2 TURN BEYOND SNUG TIGHT
- BOLT LENGTHS OVER EIGHT AND UP TO TWELVE DIAMETERS:  
+2/3 TURN BEYOND SNUG TIGHT
2. SPLICE BOLTS SUBJECT TO DIRECT TENSION SHALL BE INSTALLED AND TIGHTENED AS PER SECTION 8(d)(1) OF THE AISC MANUAL OF STEEL CONSTRUCTION. THE INSTALLATION PROCEDURE IS AS FOLLOWS:
- "FASTENERS SHALL BE INSTALLED IN PROPERLY ALIGNED HOLES AND BE TIGHTENED BY ONE OF THE METHODS DESCRIBED IN SUBSECTION 8(d)(1) THROUGH 8(d)(4).
- 8(d)(1) TURN-OF-THE-NUT TIGHTENING.  
BOLTS SHALL BE INSTALLED IN ALL HOLES OF THE CONNECTION AND BROUGHT TO A SNUG TIGHT CONDITION. SNUG TIGHT IS DEFINED AS THE TIGHTNESS THAT EXISTS WHEN THE PLIES OF A JOINT ARE IN FIRM CONTACT. THIS MAY BE OBTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A MAN USING AN ORDINARY SPUD WRENCH. SNUG TIGHTENING SHALL PROGRESS SYSTEMATICALLY...UNTIL ALL THE BOLTS ARE SIMULTANEOUSLY SNUG TIGHT AND THE CONNECTION IS FULLY COMPACTED. FOLLOWING THIS INITIAL OPERATION, ALL BOLTS IN THE CONNECTION SHALL BE TIGHTENED FURTHER BY THE APPLICABLE AMOUNT OF ROTATION SPECIFIED ABOVE. DURING THE TIGHTENING OPERATION, THERE SHALL BE NO ROTATION OF THE PART NOT TURNED BY THE WRENCH. TIGHTENING SHALL PROGRESS SYSTEMATICALLY.



SECTION / ELEVATION / DETAIL VIEW CALLOUTS



T-Mobile



telamon CLS

319 CHAPANOKE RD, SUITE 118  
RALEIGH, NC 27603  
PH: (405)348-5460 FAX: (405)341-4625  
TELAMON CLS PROJECT ID: 41124-306042-13694528  
COA# 2010039825 EXP. 12/31/2022

REVISIONS

REV.	DATE	DESCRIPTION	INITIALS
A	09/01/21	PRELIMINARY ISSUE	HRP
0	09/02/21	FOR CONSTRUCTION	HRP



Tyler M. Barker  
CLS Group  
PE # PE-2014023899 Exp. 12/31/2022  
COA # 2010039825 Exp. 12/31/2022

PE-2014023899 EXP: 12/31/2022

ATC SITE NAME:

WOODS CHAPEL

ATC ASSET#: 306042

1204 N.E. WOODS CHAPEL ROAD  
LEES SUMMIT, MO 64064-1989

SHEET TITLE

STRUCTURAL NOTES

SHEET NUMBER

GN-1

C:\USERS\HARSHADA.PATIL\DROPBOX (TELAMON)\\_ITI LLP SHARE FOLDER\STR - MOUNTS + MMOD\41124\306042\306042-13694528.TWO APP\02 - MOD\CAD\41124-306042-13694528.DWG - CLS PROJECT ID: 41124-306042-13694528

PRE-CONSTRUCTION  
INSPECTION CHECKLIST

CONSTRUCTION AND/OR INSTALLATION INSPECTIONS REQUIRED FOR REPORT? (CHECK=YES, BLANK=NO)	INSPECTION REPORT ITEM
√	MODIFICATION INSPECTION CHECKLIST
√	SHOP DRAWINGS APPROVED BY ENGINEER OF RECORD (LATEST REVISION)
√	FABRICATION INSPECTION
	FABRICATOR'S CERTIFIED WELD INSPECTOR (CWI)
	FABRICATOR'S QUALIFIED PERSONNEL FOR WELDING
√	MATERIAL TEST REPORT(S) / MILL CERTIFICATE(S)
	FABRICATOR'S NON-DESTRUCTIVE TESTING (NDT) TECHNICIAN
√	PACKING SLIPS FOR STRUCTURAL MATERIALS

CONSTRUCTION  
INSPECTION CHECKLIST

CONSTRUCTION AND/OR INSTALLATION INSPECTIONS REQUIRED FOR REPORT? (CHECK=YES, BLANK=NO)	INSPECTION REPORT ITEM
√	CONSTRUCTION INSPECTIONS
	FOUNDATION INSPECTIONS
	CONCRETE COMPRESSIVE STRENGTH AND SLUMP TESTING RESULTS/CERTIFICATES
	ADHESIVE ANCHOR ROD(S) INSTALLATION INSPECTION
	BASE PLATE GROUT INSPECTION
	THIRD-PARTY CERTIFIED WELD INSPECTION (INCLUDING IBC SPECIAL INSPECTIONS)
	SOIL EXCAVATION - DENSITY TESTING, COMPACTION INSPECTION/VERIFICATION, USE OF SUITABLE FILL
√	GALVANIZING REPAIR MATERIAL PREPARATION, INSPECTION, & PAINT APPLICATION
	GUY WIRE (RE-)TENSION REPORT AND INSPECTION
√	PRIME CONTRACTOR'S AS-BUILT DOCUMENTS (SIGNED & DATED)

POST-CONSTRUCTION  
INSPECTION CHECKLIST

CONSTRUCTION AND/OR INSTALLATION INSPECTIONS REQUIRED FOR REPORT? (CHECK=YES, BLANK=NO)	INSPECTION REPORT ITEM
√	MODIFICATION INSPECTOR'S ISSUE LIST (INCLUDING CORRECTIVE ACTIONS TAKEN) AND/OR REDLINED RECORD DRAWINGS
	POST-INSTALLED ADHESIVE ANCHOR ROD PULL-OUT TESTING
√	PHOTOGRAPHS OF MODIFICATIONS (INCLUDE PHOTOS OF BOTH SIDES OF WELDED OR BOLTED CONNECTIONS, OF OVERALL AND DETAIL VIEWS OF INSTALLED MODIFICATIONS, AND BEFORE/AFTER PHOTOS OF ANY ISSUES IDENTIFIED BY THE INSPECTOR)

GENERAL NOTES

1. THE POST-MODIFICATION INSPECTION IS A VISUAL EXAMINATION OF STRUCTURE MODIFICATIONS AND A REVIEW OF ANY REQUIRED CONSTRUCTION INSPECTIONS, TESTING, AND OTHER DATA TO VERIFY THAT THE MODIFICATIONS ARE INSTALLED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AS DESIGNED BY THE ENGINEER OF RECORD. THE CONTRACT DOCUMENTS INCLUDE THESE MODIFICATION DRAWINGS, ANY PROJECT SPECIFICATIONS REFERENCED TO IN THE PROJECT NOTES OR OTHERWISE PROVIDED WITH THE DRAWINGS, AND OTHER DOCUMENTS OR DRAWINGS PROVIDED WITH THE MODIFICATION DRAWINGS WITH THE INTENT THAT THEY BE USED AS A DESIGN AID OR GUIDELINE FOR CONSTRUCTION.
2. THE POST-MODIFICATION INSPECTION SHALL CONFIRM INSTALLATION CONFIGURATION AND WORKMANSHIP ONLY AND IS NOT A QUALITATIVE REVIEW OF THE ENGINEERING ASPECTS OF THE DESIGN OR THE DESIGN DRAWINGS. THE MODIFICATION INSPECTOR IS NOT TAKING OWNERSHIP OF THE MODIFICATION DESIGN IN THE PERFORMANCE OF THEIR DUTIES. OWNERSHIP OF THE MODIFICATION DESIGN'S EFFECTIVENESS AND INTENT, AS WELL AS ALL ASSOCIATED RISK, LIES WITH THE ENGINEER OF RECORD AT ALL TIMES.
3. TO ENSURE THAT THE REQUIREMENTS OF THE POST-MODIFICATION INSPECTION ARE MET, IT IS ESSENTIAL THAT COORDINATION BETWEEN THE PRIME CONTRACTOR AND THE MODIFICATION INSPECTOR BEGIN AS SOON AS THE PROJECT IS FUNDED AND WORK ENTERS THE PLANNING STAGE. THE PRIME CONTRACTOR AND MODIFICATION INSPECTOR SHALL BE PROACTIVE IN IDENTIFYING CONSTRUCTION ISSUES AND COMMUNICATING THESE ISSUES TO EACH OTHER AND TO THE ENGINEER OF RECORD AND STRUCTURE OWNER & CUSTOMER, AS REQUIRED.

INSPECTION AND REPORT RECOMMENDATIONS

1. THE FOLLOWING ARE PROVIDED WITH THE INTENT OF ENHANCING THE EFFECTIVENESS OF THE MODIFICATION INSPECTION AND IMPROVING THE EFFICIENCY OF THE PROCESS OF COLLECTING AND COMPILING THE INFORMATION INTO A USABLE REPORT:
  - 1.1. IT IS RECOMMENDED THAT THE PRIME CONTRACTOR PROVIDE THE MODIFICATION INSPECTOR AT LEAST 5 BUSINESS DAYS NOTICE FOR WHEN THE SITE WILL BE READY FOR THE MODIFICATION INSPECTION.
  - 1.2. THE PRIME CONTRACTOR AND THE MODIFICATION INSPECTOR SHALL COORDINATE CLOSELY THROUGHOUT THE ENTIRE PROJECT.
  - 1.3. THE PRIME CONTRACTOR AND MODIFICATION INSPECTOR SHALL BOTH BE PRESENT DURING THE INITIAL INSPECTION IN ORDER TO ALLOW FOR THE REMEDIATION OF DEFICIENCIES DURING THE INSPECTION, AS PRACTICABLE. IT MAY BE PREFERABLE TO KEEP WORK CREWS AND THEIR EQUIPMENT ON-SITE TO REMEDIATE DEFICIENCIES DURING INSPECTIONS.

INSPECTION RESCHEDULING AND CANCELLATION

1. IF THE PRIME CONTRACTOR AND MODIFICATION INSPECTOR HAVE AGREED UPON A TIME AND DATE FOR A GIVEN INSPECTION AND EITHER PARTY RESCHEDULES OR CANCELS THE INSPECTION, THE STRUCTURE OWNER SHALL NOT BE RESPONSIBLE FOR COSTS, FEES, LOST DEPOSITS, OR OTHER EXPENSES INCURRED BY THE PRIME CONTRACTOR, THEIR SUBCONTRACTOR(S), OR THE MODIFICATION INSPECTOR DUE TO THESE SCHEDULING CHANGES. EXCEPTIONS MAY BE MADE IN THE EVENT OF UNCONTROLLABLE SITUATIONS SUCH AS NATURAL DISASTERS, SEVERE WEATHER, OR OTHER CONDITIONS THAT COMPROMISE THE SAFETY OF THE PARTIES INVOLVED.

REMEDiation OF FAILING INSPECTION

1. IN THE EVENT THAT ANY PORTION OF THE MODIFICATION WORK IS DETERMINED TO BE UNSATISFACTORY BY THE MODIFICATION INSPECTOR, THE PRIME CONTRACTOR SHALL WORK WITH THE MODIFICATION INSPECTOR TO CREATE A PLAN OF ACTION THAT WILL EITHER:
  - 1.1. REPAIR THE DEFICIENT WORK TO SATISFACTORY CONDITION AND INCLUDE A SUBSEQUENT RE-INSPECTION OF THE WORK TO VERIFY THAT IT IS SATISFACTORY
  - 1.2. OR, WITH THE PERMISSION OF THE STRUCTURE OWNER AND/OR CUSTOMER, THE PRIME CONTRACTOR MAY WORK WITH THE ENGINEER OF RECORD TO REVIEW THE AS-BUILT CONDITION OF THE MODIFICATION TO DETERMINE IF IT IS STRUCTURALLY ACCEPTABLE. IF THIS ACTION IS NOT ACCEPTABLE TO ANY PARTY, THE PRIME CONTRACTOR SHALL PROCEED TO REPAIR THE DEFICIENT WORK TO A SATISFACTORY CONDITION.

MODIFICATION INSPECTOR'S RESPONSIBILITIES

1. THE MODIFICATION INSPECTOR SHALL CONTACT THE PRIME CONTRACTOR AS SOON AS THEY HAVE RECEIVED A PURCHASE ORDER OR PAYMENT FOR THIS INSPECTION. THE MODIFICATION INSPECTOR SHALL REVIEW THE REQUIREMENTS OF THE INSPECTION CHECKLIST, SHALL WORK WITH THE PRIME CONTRACTOR TO DEVELOP A SCHEDULE OF NECESSARY ON-SITE INSPECTIONS, AND SHALL DISCUSS ANY SITE-SPECIFIC INSPECTION REQUIREMENTS OR OTHER CONCERNS.
2. THE MODIFICATION INSPECTOR IS RESPONSIBLE FOR COLLECTING ALL PRIME CONTRACTOR INSPECTION AND TEST REPORTS (INCLUDING THOSE OF ASSIGNED SUB-CONTRACTORS), SHALL REVIEW THE REPORTS FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS, SHALL CONDUCT THE NECESSARY ON-SITE INSPECTIONS, AND SHALL COMPILE AND SUBMIT THE MODIFICATION INSPECTION REPORT.

RELEASED FOR  
CONSTRUCTION  
As Noted on Plans Review

Development Services Department  
Lee's Summit, Missouri

11/09/2021

PRIME CONTRACTOR'S RESPONSIBILITIES

1. THE PRIME CONTRACTOR SHALL CONTACT THE MODIFICATION INSPECTOR AS SOON AS THEY HAVE RECEIVED A PURCHASE ORDER OR PAYMENT FOR THE MODIFICATION INSTALLATION OR PROJECT. THE PRIME CONTRACTOR SHALL REVIEW THE REQUIREMENTS OF THE MODIFICATION INSPECTION CHECKLIST, SHALL WORK WITH THE MODIFICATION INSPECTOR TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE INSPECTIONS, AND SHALL DISCUSS SPECIFIC INSPECTION AND TESTING REQUIREMENTS WITH THE MODIFICATION INSPECTOR IN DETAIL TO OBTAIN A FULL UNDERSTANDING OF THE REQUIRED INSPECTIONS AND TESTING.
2. THE PRIME CONTRACTOR SHALL PERFORM AND RECORD THE TESTING AND INSPECTION RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE MODIFICATION INSPECTION CHECKLIST.

PHOTOGRAPHY REQUIREMENTS

1. THE PRIME CONTRACTOR AND MODIFICATION INSPECTOR SHALL, BETWEEN THE EFFORTS OF BOTH PARTIES AND THEIR EMPLOYED PERSONNEL, PROVIDE PHOTOGRAPHS WITH THE INSPECTION REPORT TO INCLUDE THE FOLLOWING:
  - a. GENERAL SITE PHOTOGRAPHS PRE-CONSTRUCTION
  - b. MODIFICATION INSTALLATION PHOTOGRAPHS DURING CONSTRUCTION/ERECTION OPERATIONS AND INSPECTIONS
    - b.1. RAW MATERIALS
    - b.2. PHOTOS OF DETAILED WORK REQUIRED ON THE DRAWINGS (CONNECTIONS, WELDMENTS, FIELD-FABRICATED MEMBERS, ETC)
    - b.3. WELD PREPARATION AND COMPLETED WELD INSPECTION (INCLUDING A FILLET WELD SIZE GAUGE, AS APPLICABLE)
    - b.4. BOLT INSTALLATION AND TORQUE/PRETENSION.
    - b.5. FINAL INSTALLED CONDITION (AFTER DEFICIENT CONDITIONS, IF ANY, ARE REMEDIATED).
    - b.6. REPAIR OF SURFACE COATINGS (INCLUDING GALVANIZING AND/OR PAINT COATING)
  - c. POST-MODIFICATION PHOTOGRAPHS OF THE SITE & WORK.
  - d. PHOTOGRAPHS OF THE FINAL STATE OF THE SITE AT CONCLUSION OF THE WORK BY THE PRIME CONTRACTOR, ASSOCIATED SUBCONTRACTORS, AND THE MODIFICATION INSPECTOR.
  - e. OTHER PHOTOS MAY BE INCLUDED AT PRIME CONTRACTOR & MODIFICATION INSPECTOR'S DISCRETION.

NOTE: PHOTOS OF MODIFICATIONS INSTALLED ON THE STRUCTURE ABOVE AN ELEVATION OF 20 FT SHALL REQUIRE PHOTOS TAKEN FROM THE STRUCTURE AS WELL AS OVERALL PHOTOGRAPHS OF THE MODIFICATIONS TAKEN FROM THE GROUND.

OWNER INSPECTIONS

1. THE STRUCTURE OWNER MAY CONDUCT INSPECTIONS TO VERIFY THE QUALITY AND COMPLETENESS OF THE PREVIOUSLY COMPLETED MODIFICATION INSPECTION REPORTS FOR THE MODIFICATION INSTALLATION WORK.
2. INSPECTIONS MAY BE COMPLETED BY A 3RD-PARTY FIRM OF THE STRUCTURE OWNER'S CHOOSING AFTER A MODIFICATION PROJECT IS COMPLETED AND A PASSING MODIFICATION INSPECTION REPORT IS ISSUED.

T-Mobile

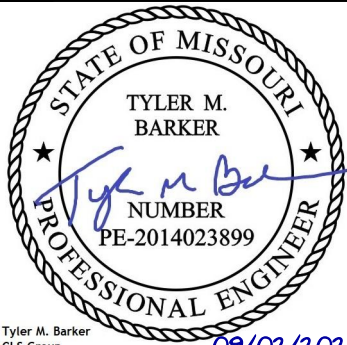


telamon CLS

319 CHAPANOKE RD, SUITE 118  
RALEIGH, NC 27603  
PH: (405)348-5460 FAX: (405)341-4625  
TELAMON CLS PROJECT ID: 41124-306042-13694528  
COA# 2010039825 EXP. 12/31/2022

REVISIONS

REV.	DATE	DESCRIPTION	INITIALS
A	09/01/21	PRELIMINARY ISSUE	HRP
0	09/02/21	FOR CONSTRUCTION	HRP



Tyler M. Barker  
CLS Group  
PE # PE-2014023899 Exp. 12/31/2022  
COA # 2010039825 Exp. 12/31/2022

PE-2014023899 EXP: 12/31/2022

ATC SITE NAME:

WOODS CHAPEL

ATC ASSET#: 306042

1204 N.E. WOODS CHAPEL ROAD  
LEES SUMMIT, MO 64064-1989

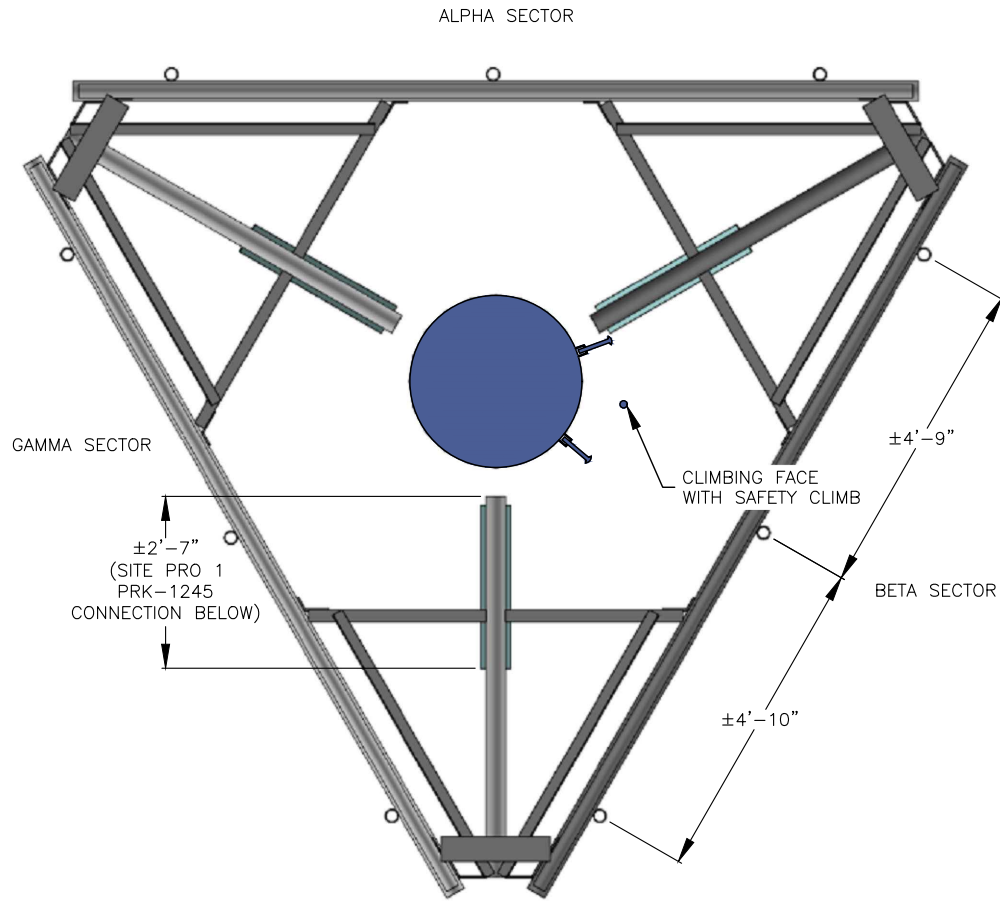
SHEET TITLE  
MODIFICATION  
INSPECTION NOTES

SHEET NUMBER

IN-1

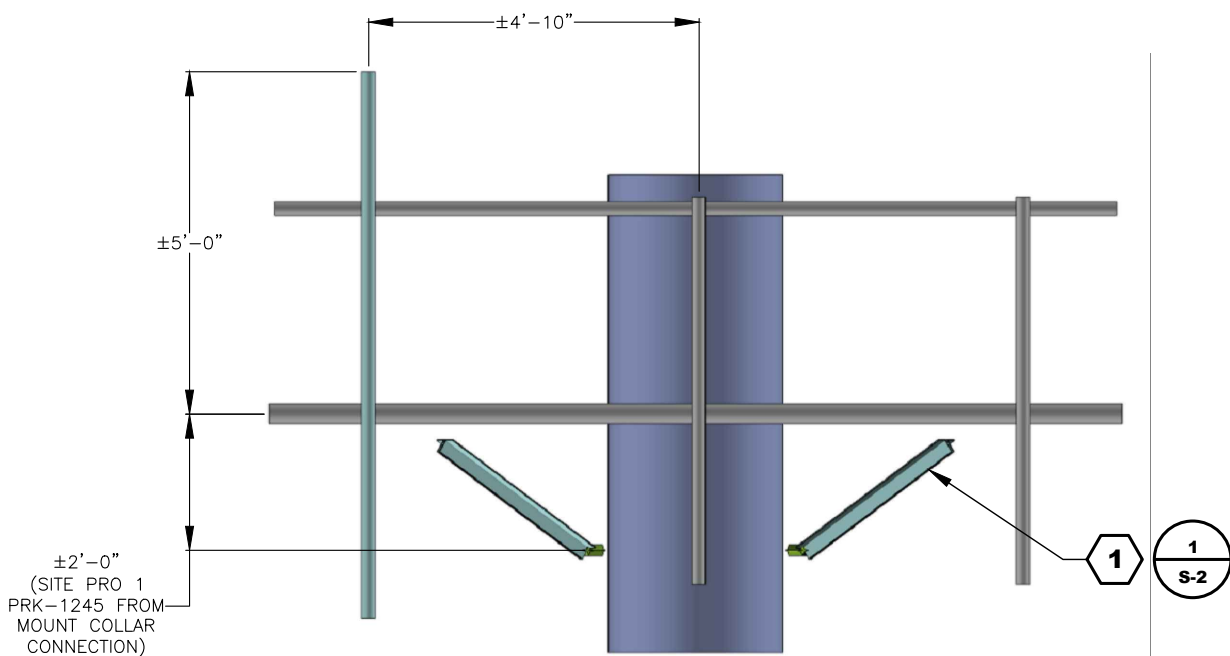


NOTE:  
EXISTING MOUNT SHOWN IS REPRESENTATIVE  
TO ILLUSTRATE MODIFICATION AND MAY DIFFER  
SLIGHTLY ON SITE.



1 MOUNT - PLAN VIEW  
SCALE: N.T.S.

NOTE:  
OTHER SECTORS MOUNT PIPES NOT SHOWN FOR CLARITY.



2 MOUNT - FRONT ELEVATION VIEW (ALPHA AND GAMMA SECTORS)  
SCALE: N.T.S.

## CONSTRUCTION NOTES

- SCOPE OF WORK MUST BE COMPLETED AT WIND SPEEDS < 20 MPH.
- ALL DIMENSIONS ARE APPROXIMATE. CONTRACTOR SHOULD FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATION OF STEEL AND COMMENCEMENT OF WORK. FIELD CUT MEMBERS AS REQUIRED.
- ALL HARDWARE SHOULD BE INSTALLED WITH "TURN OF THE NUT" METHOD (RE: GN-1).
- 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)

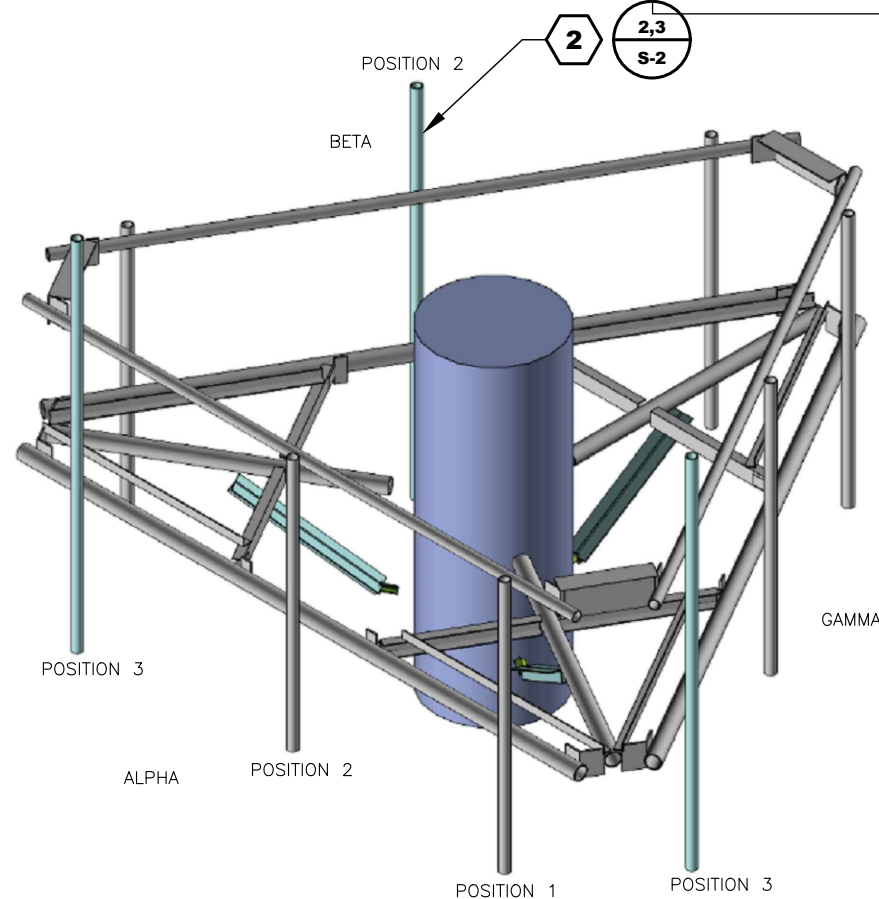
## MODIFICATION SCHEDULE

LABEL	ELEVATION	SCOPE	MATERIAL	NOTES
1	±126'-6"	INSTALL (1) PROPOSED SITE PRO 1 PRK-1245 AS SPECIFIED. <b>FIELD-CUT PROPOSED ANGLES AS REQUIRED. MAINTAIN MINIMUM BOLT EDGE DISTANCE. DO NOT PINCH SAFETY CLIMB. RE-SECURE COAX AFTER THE INSTALLATION OF PROPOSED MODIFICATIONS.</b>	SITE PRO 1 PRK-1245	S-1 S-2
2	±126'-6"	REPLACE EXISTING MOUNT PIPE AT POSITION 3 IN ALPHA AND GAMMA SECTORS AND AT POSITION 2 IN BETA SECTOR WITH PROPOSED PIPE FOR PROPOSED PANEL CONFIGURATION (3 TOTAL) AS SHOWN. CONNECT TO PLATFORM BASE HORIZONTALS USING SITE PRO 1 SP219 CROSSOVER KITS (3 TOTAL). CONNECT TO SUPPORT RAILS USING SITE PRO 1 SCX1-K CROSSOVER PLATE KITS (3 TOTAL).	PIPE 2 STD X 8'-0" LONG SITE PRO 1 SP219 SITE PRO 1 SCX1-K	S-1 S-2

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

Development Services Department  
Lee's Summit, Missouri

11/09/2021



3 MOUNT - ISOMETRIC VIEW  
SCALE: N.T.S.

T-Mobile



telamon CLS

319 CHAPANOKE RD, SUITE 118  
RALEIGH, NC 27603  
PH: (405)348-5460 FAX: (405)341-4625  
TELAMON CLS PROJECT ID: 41124-306042-13694528  
COA# 2010039825 EXP. 12/31/2022

## REVISIONS

REV.	DATE	DESCRIPTION	INITIALS
A	09/01/21	PRELIMINARY ISSUE	HRP
O	09/02/21	FOR CONSTRUCTION	HRP



Tyler M. Barker  
CLS Group  
PE # PE-2014023899 Exp. 12/31/2022  
COA # 2010039825 Exp. 12/31/2022

PE-2014023899 EXP: 12/31/2022

ATC SITE NAME:

WOODS CHAPEL

ATC ASSET#: 306042

1204 N.E. WOODS CHAPEL ROAD  
LEES SUMMIT, MO 64064-1989

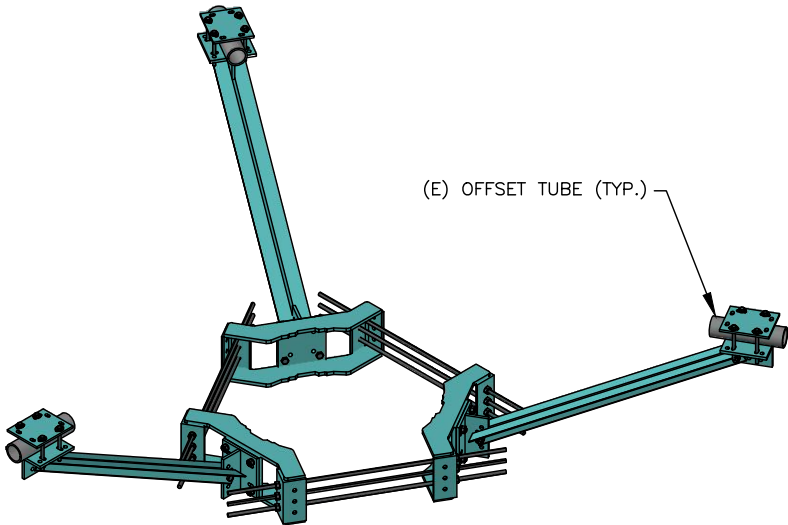
SHEET TITLE

MOUNT VIEWS &  
MODIFICATION SCHEDULE

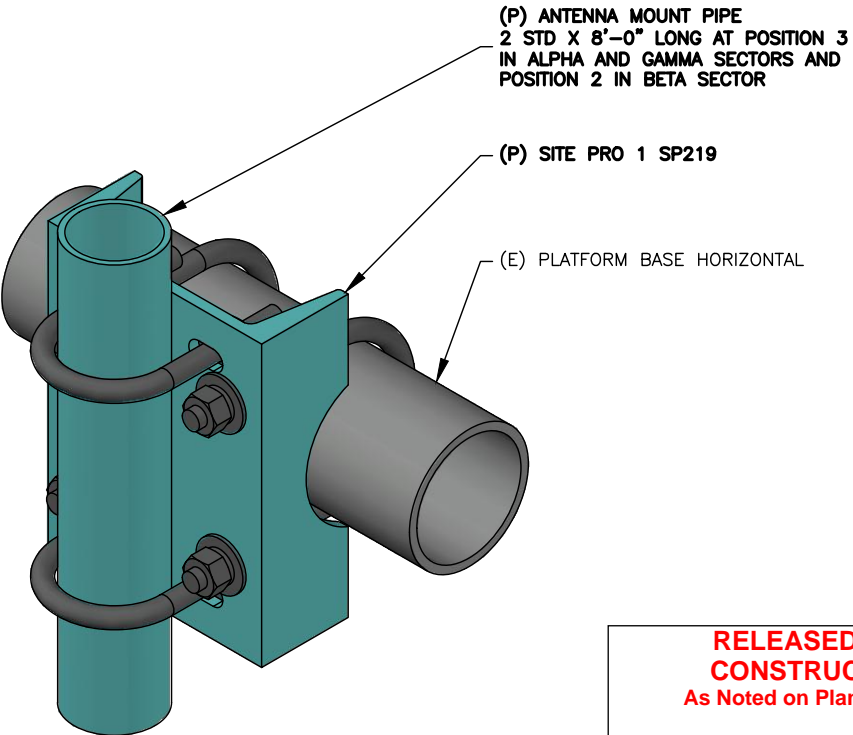
SHEET NUMBER

S-1

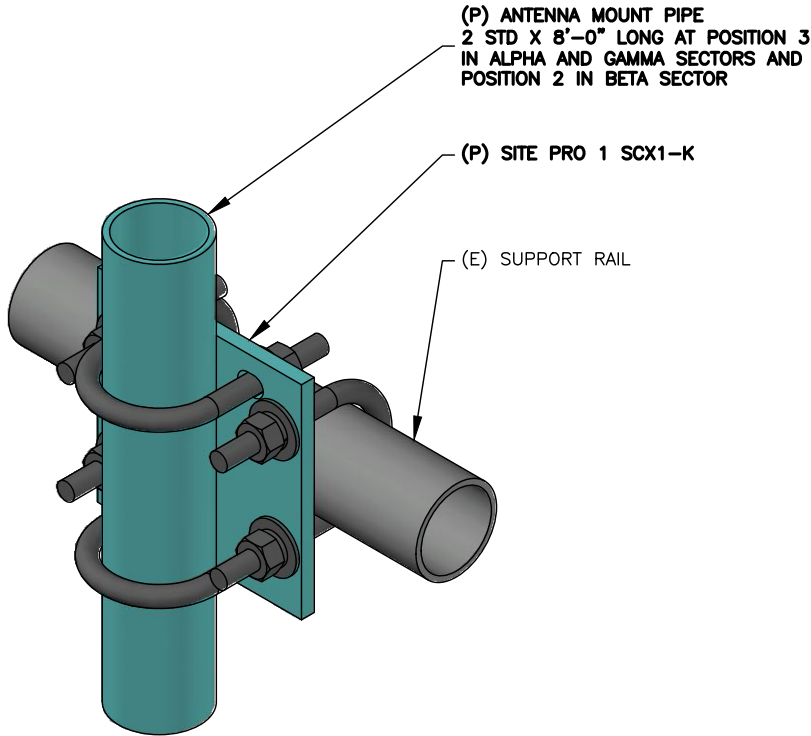
- NOTES:
1. FIELD-CUT PROPOSED ANGLES AS REQUIRED.  
MAINTAIN MINIMUM BOLT EDGE DISTANCE.
  2. DO NOT PINCH SAFETY CLIMB.
  3. RE-SECURE COAX AFTER THE INSTALLATION  
OF PROPOSED MODIFICATIONS.



**1** SITE PRO 1 PRK-1245  
SCALE: N.T.S.



**2** SITE PRO 1 SP219  
SCALE: N.T.S.



**3** SITE PRO 1 SCX1-K  
SCALE: N.T.S.

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

Development Services Department  
Lee's Summit, Missouri

11/09/2021

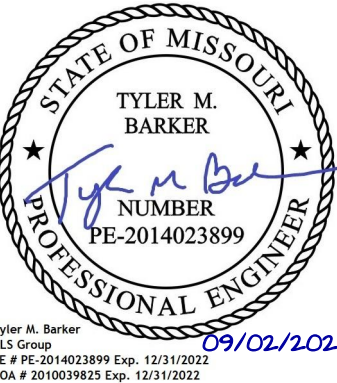
**T-Mobile**



**telamon CLS**

319 CHAPANOKE RD, SUITE 118  
RALEIGH, NC 27603  
PH: (405)348-5460 FAX: (405)341-4625  
TELAMON CLS PROJECT ID: 41124-306042-13694528  
COA# 2010039825 EXP. 12/31/2022

REVISIONS			
REV.	DATE	DESCRIPTION	INITIALS
A	09/01/21	PRELIMINARY ISSUE	HRP
0	09/02/21	FOR CONSTRUCTION	HRP



PE-2014023899 EXP: 12/31/2022

**ATC SITE NAME:**  
WOODS CHAPEL  
**ATC ASSET#:** 306042  
1204 N.E. WOODS CHAPEL ROAD  
LEES SUMMIT, MO 64064-1989

**SHEET TITLE**  
MODIFICATION DETAIL  
VIEWS

**SHEET NUMBER**

**S-2**

Wind & Ice Loading			
Nominal Mount Elevation (AGL), $z_{mount}$	127 ft	$K_a$	0.90
Nominal Rad Elevation (AGL), $z_{rad}$	126 ft	$K_d$	0.95
Elevation AMSL (ft)	973 ft	$K_s$	0.97
TIA Standard	H	$K_z$	1.33
Basic Wind Speed, $V_{ult}$ (bare)	109 mph	$K_{zt}$	1.00
Basic Wind Speed, $V$ (ice)	40 mph	$K_s$	1.00
Design Ice Thickness, $t_i$	1 1/2 in	$t_{iz}$	1.72 in
Exposure Category	C	$G_h$	1.00
Risk Category	II	$q_z$ (bare)	37.1 psf
Seismic Response Coeff., $C_s$	0.05	$q_z$ (ice)	5.0 psf

Live Loading	
At Mount Pipes, $L_M$	500 lb
Joint Labels Considered	M1
	M2
	M3

Member Distributed Loading				
Section Set Label	Shape Label	$F_A$ (lb/ft)		Ice Wt. (lb/ft)
		Bare	Ice	
Side Channel	C3x2x.188	18.81	1.73	12.86
Standoff Pipe	PIPE_3.5x0.165	11.68	3.12	10.93
Offset End Plate	PL 6"x0.375"	33.39	4.25	12.10
Face Horizontal Pipe	PIPE_3.0	11.68	3.12	10.93
Channel Conn. Plate 2	PL2.38x0.375	13.24	2.63	7.27
Channel Conn. Plate 1	PL 6"x0.375"	33.39	4.25	12.10
Angle Grating Supports	L2x2x3	11.13	1.66	8.69
Support Rail	PIPE_2.0	7.93	2.61	8.57
SR Conn Plate	PL6x1/4	33.39	4.24	11.94
SR Conn Angle	Custom 6.63x4.46	36.89	1.92	18.15
Mount Pipe	PIPE_2.0	7.93	2.61	8.57
MOD Mount Pipe	PIPE_2.0	7.93	2.61	8.57
MOD PRK-1245	L2.5x2.5x3	13.91	1.68	10.02

RELEASED FOR

CONSTRUCTION

As Noted on Plans Review

Development Services Department

Lee's Summit, Missouri

11/09/2021

Appurtenances																														
Appurtenance Model	Status	Azimuth Offset (°, ′)	Rad Elev. Override (ft)	Swap Width & Depth	Area Factor		Qty. per Azimuth			Total Qty. Override	0° Joints		90° Joints		240° Joints		Height (in)	Width (in)	Depth (in)	Weight (Bare) (lb)	Shape	Weight of Ice (lb)	EPA <sub>A</sub> (Bare) (ft²)		EPA <sub>A</sub> (Ice) (ft²)		F <sub>A</sub> (Bare) (lb)		F <sub>A</sub> (Ice) (lb)	
											Front	Side	0°	90°	240°	1							2	1	2	1	2	N	T	N
AEHC				<input type="checkbox"/>			1	1	1	3	A1	A2	A7	A8	A9	A10	35.43	22.83	8.26	99.2	Flat	150.91	6.74	2.60	8.50	3.90	224.85	86.74	38.20	17.52
FFHH-65C-R3				<input type="checkbox"/>			1	1	1	3	A3	A4	A5	A6	A11	A12	96	25.2	9.3	127.6	Generic	408.83	12.95	4.89	15.21	6.85	431.98	163.12	68.34	30.75
AHFIG				<input checked="" type="checkbox"/>		0.5	1	1	1	3	R1		R2		R3		27.6	13.4	5.6	79.4	Flat	71.93	1.40	1.54	2.42	2.18	46.83	51.40	10.85	9.77
AIRSCALE DUAL RRH 4T4R B12/71 240W AHLOA				<input checked="" type="checkbox"/>		0.5	1	1	1	3	R1		R2		R3		22.04	12.13	7.44	83.77	Flat	62.71	1.39	1.11	2.31	1.65	46.36	37.16	10.36	7.42
ASU9338TYP01				<input type="checkbox"/>					1	1					RC		20.38	18.86	5.83	19	Flat	73.28	3.20	1.03	4.42	1.84	106.84	34.25	19.87	8.28
HELIAX FiberFeed12 RRU PendantConnect				<input type="checkbox"/>			1			1	HF						16.9	6.7	4.7	20	Flat	37.02	0.94	0.69	1.72	1.38	31.50	22.98	7.71	6.19