

GENERAL CONSTRUCTION NOTES:

1. OWNER FURNISHED MATERIALS, AT&T MOBILITY "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 AT&T MOBILITY 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 AT&T MOBILITY REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE AT&T MOBILITY REP PRIOR TO PROCEEDING.
13. EACH CONTRACTOR SHALL COOPERATE WITH THE AT&T MOBILITY 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 AT&T MOBILITY 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 AT&T MOBILITY 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 AT&T MOBILITY 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 AT&T MOBILITY 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 AT&T MOBILITY REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY AT&T MOBILITY MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH AT&T MOBILITY SPECIFICATIONS AND REQUIREMENTS.
24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO AT&T MOBILITY FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
25. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO AT&T MOBILITY 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 AT&T MOBILITY 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 NEGLIGENCE ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLIGENCE 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 AT&T MOBILITY REP. ANY WORK FOUND BY THE AT&T MOBILITY 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. AT&T MOBILITY FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE AT&T MOBILITY WAREHOUSE, NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNGRATE, 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. AT&T MOBILITY 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 AT&T MOBILITY OR THEIR ARCHITECT/ENGINEER.

SPECIAL CONSTRUCTION

ANTENNA INSTALLATION NOTES:

1. WORK INCLUDED:
- A. ANTENNA AND COAXIAL CABLES ARE FURNISHED BY AT&T MOBILITY 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 AT&T MOBILITY SPECIFICATIONS.

C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS

D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE.

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/SPICE WEATHERPROOFING KIT #221213 OR

EQUAL.

3. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS)

RELEASE FOR
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AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

10/25/2021



49030 Pontiac Trail, Suite 400
Wixom, Michigan 48393
PHONE: (248) 705-9212

| REV. | DESCRIPTION | BY | DATE |
|------|-------------|----|----------|
| | PRELIM | RC | 05/27/21 |
| | FINAL CD | RC | 06/29/21 |
| | | | |
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ATC SITE NUMBER:

306042

ATC SITE NAME:

WOODS
CHAPEL

SITE ADDRESS:

1204 NORTHEAST WOODS CHAPEL ROAD
LEES SUMMIT, MO 64064



| | |
|----------------|--------------|
| DATE DRAWN: | 05/27/21 |
| ATC JOB NO: | 13618801 |
| CUSTOMER ID: | KS4070 |
| CUSTOMER NAME: | WOODS CHAPEL |

GENERAL NOTES

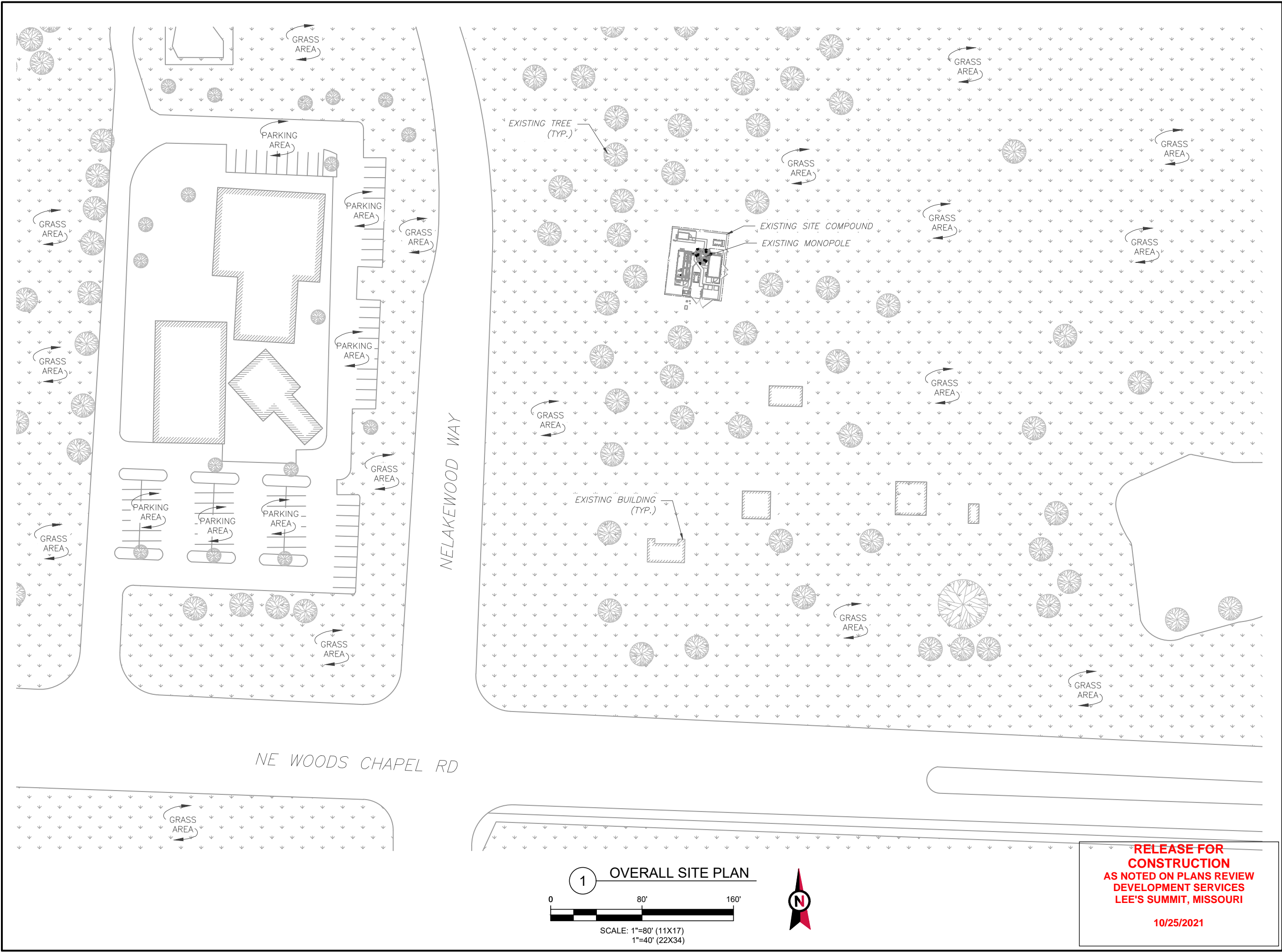
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G-002

REVISION:


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ALL DISCREPANCIES FROM WHAT IS SHOWN ON THESE CONSTRUCTION DRAWINGS SHALL BE COMMUNICATED TO ATC ENGINEERING IMMEDIATELY FOR CORRECTION OR RE-DESIGN. FAILURE TO COMMUNICATE DIRECTLY WITH ATC ENGINEERING OR ANY CHANGES FROM THE DESIGN CONDUCTED WITHOUT PRIOR APPROVAL FROM ATC ENGINEERING SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.





AMERICAN TOWER®



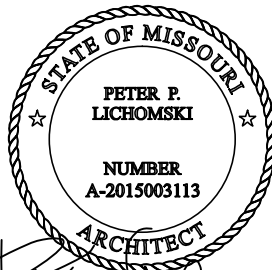
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LEES SUMMIT, MO 64064



Peter P. Lichomski



| | |
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OVERALL SITE PLAN

| | |
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LEE'S SUMMIT, MISSOURI

10/25/2021

SITE PLAN NOTES:

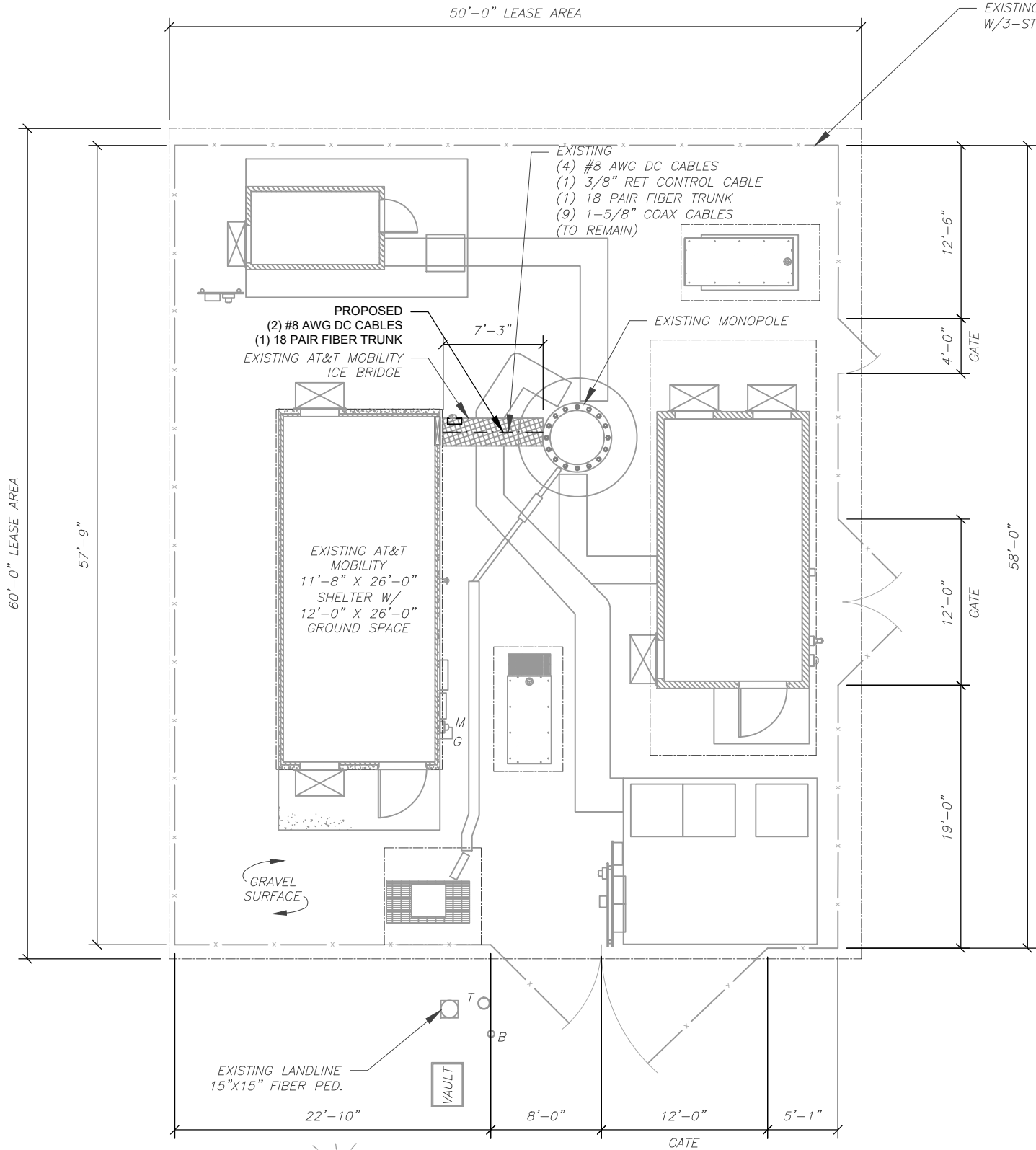
1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
2. ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE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

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 **243'**. ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 15% (OF THE TWO PREVIOUS VALUES), CDS DEFER TO GREATEST CABLE LENGTH.
2. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. WHERE POSSIBLE UTILIZE EXISTING CABLE SUPPORT STRUCTURES AS PROVIDED FOR CARRIER TO ADEQUATELY SECURE CABLES, USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER. OTHERWISE, ATTACH CABLES TO HORIZONTAL OR DIAGONAL TOWER MEMBERS USING PROPOSED STAINLESS STEEL ADAPTERS (DO NOT ATTACH TO TOWER LEG).



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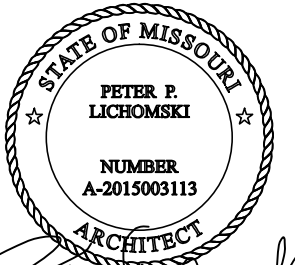
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DETAILED SITE PLAN

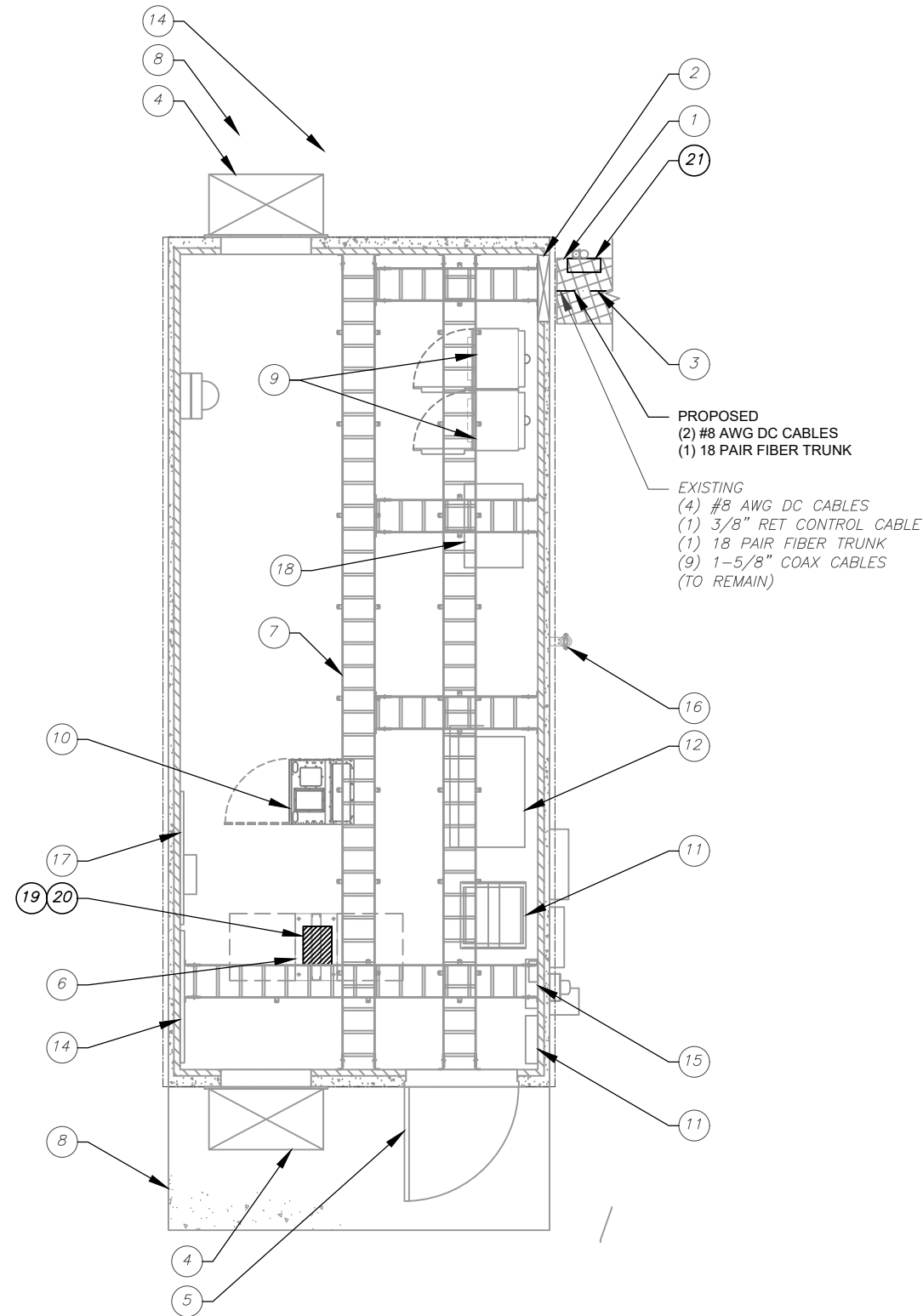
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EXISTING EQUIPMENT

- 1 EXISTING ICE BRIDGE
- 2 EXISTING COAX PORT
- 3 EXISTING COAX TRUNK CABLE
- 4 EXISTING HVAC
- 5 EXISTING DOOR
- 6 EXISTING FIF RACK
- 7 EXISTING ELEVATED CABLE TRAY (TYP.)
- 8 EXISTING STOOP
- 9 EXISTING GSM CABINET
- 10 EXISTING UMTS CABINET
- 11 EXISTING DC POWER PLANT
- 12 EXISTING BATTERIES
- 13 EXISTING AC PANEL
- 14 EXISTING TELCO BOARD
- 15 EXISTING MANUAL TRANSFER SWITCH
- 16 EXISTING GPS ANTENNA
- 17 EXISTING FIBER BOARD
- 18 EXISTING DESK
- 19 (1) AMIA, (3) ABIA, (1) ASIA
- 20 NEW POWER CONVERTER
- 21 FIBER STORAGE BOX

1 DETAILED EQUIPMENT LAYOUT
0 5' 10'
SCALE: 1"=5' (11X17)
1"=2.5' (22X34)



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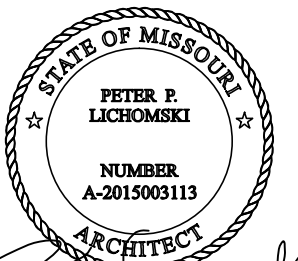
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SHELTER LAYOUT

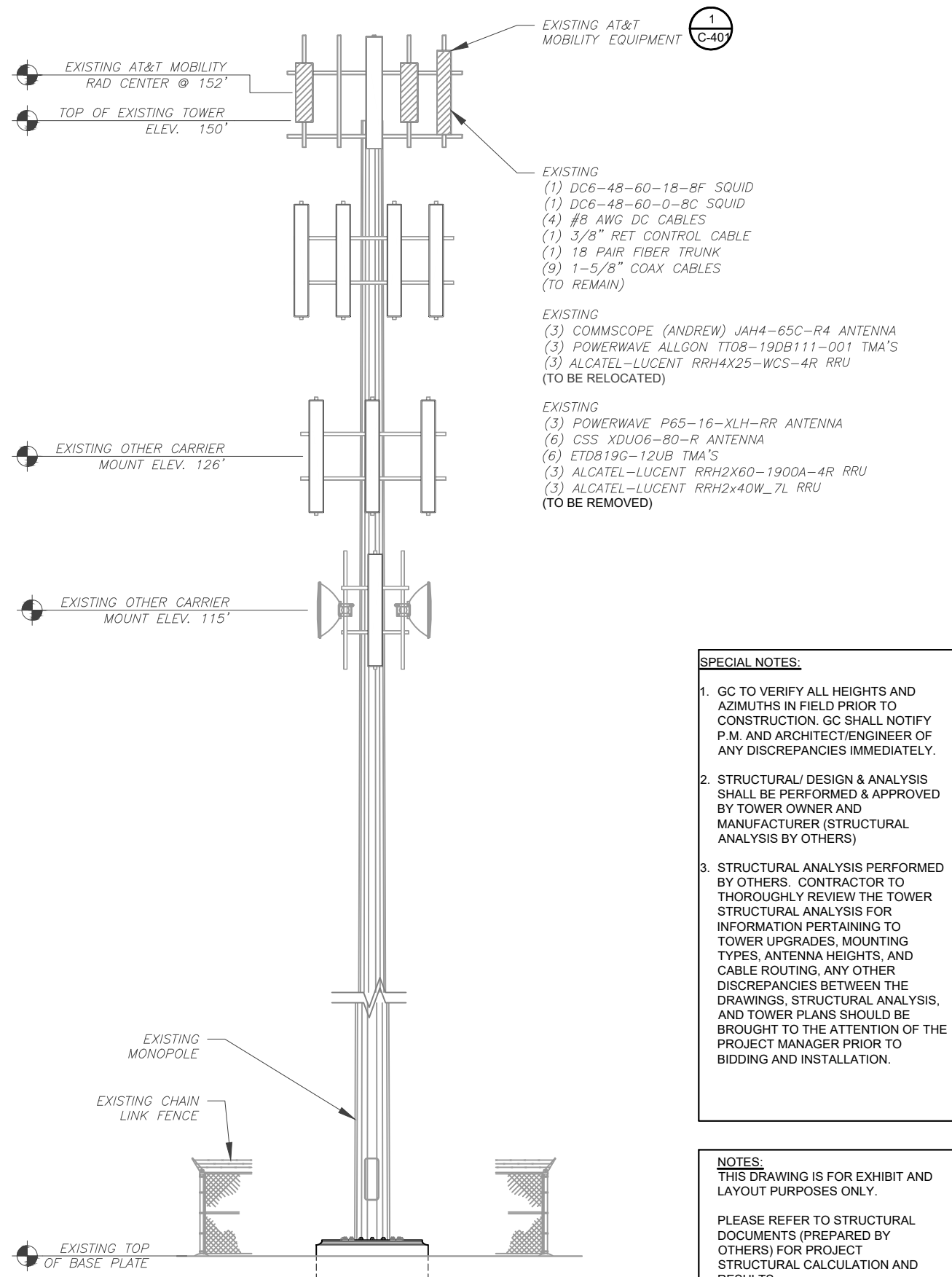
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REVISION:

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EXISTING AND FINAL CONFIGURATIONS ARE BASED ON RFDS. CONTRACTOR TO VERIFY EXISTING CONDITIONS.



- EXISTING
- (1) DC6-48-60-18-8F SQUID
 - (1) DC6-48-60-0-8C SQUID
 - (4) #8 AWG DC CABLES
 - (1) 3/8" RET CONTROL CABLE
 - (1) 18 PAIR FIBER TRUNK
 - (9) 1-5/8" COAX CABLES (TO REMAIN)
- EXISTING
- (3) COMMScope (ANDREW) JAH4-65C-R4 ANTENNA
 - (3) POWERWAVE ALLGON TT08-19DB111-001 TMA'S
 - (3) ALCATEL-LUCENT RRH4X25-WCS-4R RRU (TO BE RELOCATED)
- EXISTING
- (3) POWERWAVE P65-16-XLH-RR ANTENNA
 - (6) CSS XDU06-80-R ANTENNA
 - (6) ETD819G-12UB TMA'S
 - (3) ALCATEL-LUCENT RRH2X60-1900A-4R RRU
 - (3) ALCATEL-LUCENT RRH2x40W_7L RRU (TO BE REMOVED)

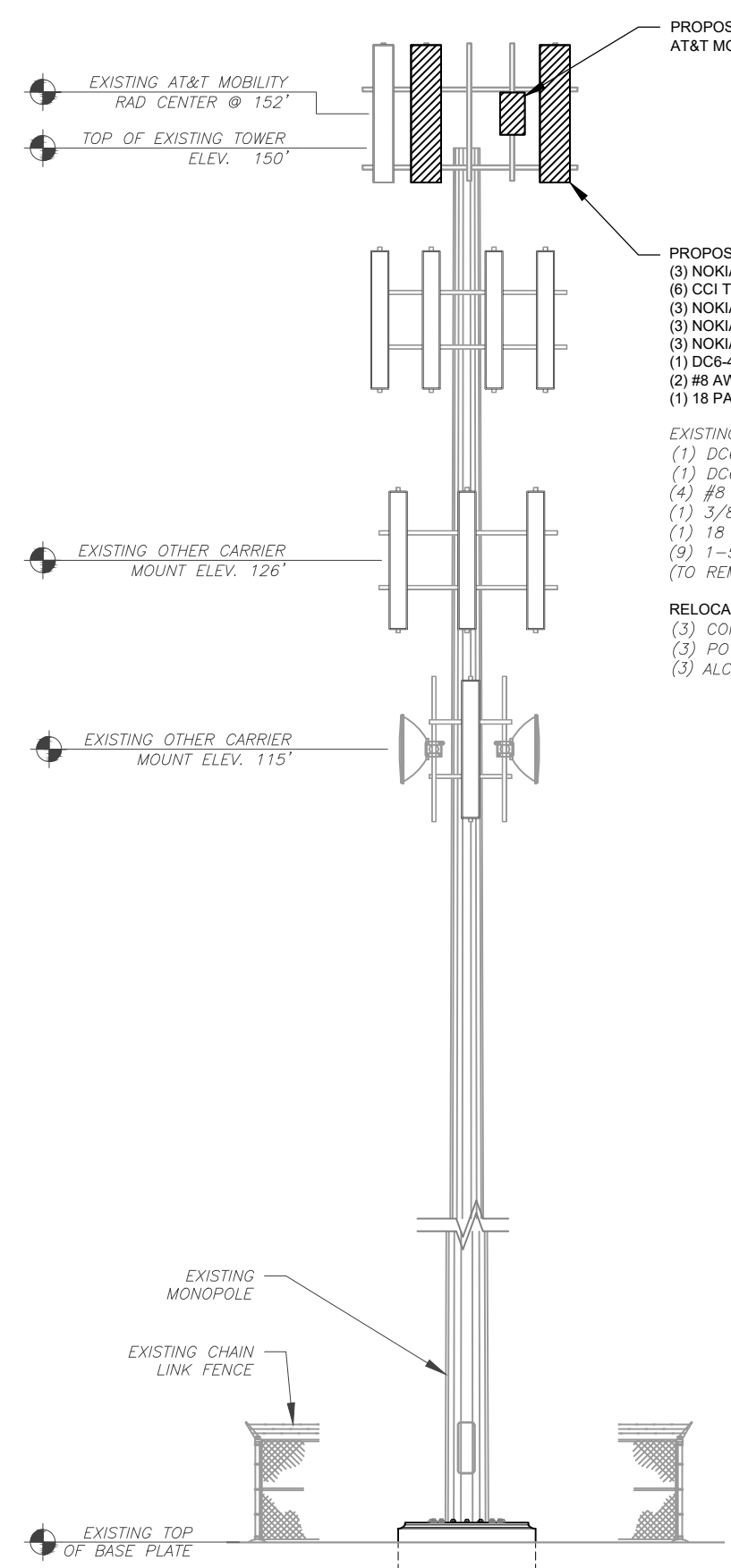
- SPECIAL NOTES:**
- GC TO VERIFY ALL HEIGHTS AND AZIMUTHS IN FIELD PRIOR TO CONSTRUCTION. GC SHALL NOTIFY P.M. AND ARCHITECT/ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
 - STRUCTURAL/ DESIGN & ANALYSIS SHALL BE PERFORMED & APPROVED BY TOWER OWNER AND MANUFACTURER (STRUCTURAL ANALYSIS BY OTHERS)
 - STRUCTURAL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

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

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

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

PER MOUNT ANALYSIS COMPLETED BY POWER OF DESIGN, DATED 06/23/2021, THE EXISTING MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING



- PROPOSED
- (3) NOKIA AEQK ANTENNA
 - (6) CCI TPA65R-BU8D ANTENNA
 - (3) NOKIA AIRSCALE TRI RRH 4T4R B12/14/29 370W AHLBBA
 - (3) NOKIA AIRSCALE RRH 4T4R B5 160W AHCA
 - (3) NOKIA AIRSCALE DUAL RRH 4T4R B25/66 320W AHFIB
 - (1) DC6-48-60-18-8C SQUID
 - (2) #8 AWG DC CABLES
 - (1) 18 PAIR FIBER TRUNK

- EXISTING
- (1) DC6-48-60-18-8F SQUID
 - (1) DC6-48-60-0-8C SQUID
 - (4) #8 AWG DC CABLES
 - (1) 3/8" RET CONTROL CABLE
 - (1) 18 PAIR FIBER TRUNK
 - (9) 1-5/8" COAX CABLES (TO REMAIN)

- RELOCATED EXISTING
- (3) COMMScope (ANDREW) JAH4-65C-R4 ANTENNA
 - (3) POWERWAVE ALLGON TT08-19DB111-001 TMA'S
 - (3) ALCATEL-LUCENT RRH4X25-WCS-4R RRU

- TOWER NOTE:**
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE AMERICAN TOWER CONSTRUCTION MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS.
 - TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)

- COAXIAL CABLE NOTES:**
- CONTRACTOR SHALL CONFIRM COAX COLOR CODING PRIOR TO CONSTRUCTION. REFER TO "ANTENNA SYSTEM LABELING STANDARD" ND-00027 LATEST VERISON.
 - CONTRACTOR SHALL WEATHERPROOF ALL ANTENNA CONNECTORS WITH JUMPERS W/BOOTS. WEATHERPROOFING SHALL BE COMPLETED IN STRICT ACCODRANCE WITH AT&T STANDARDS.
 - CONTRACTOR SHALL GROUND ALL EQUIPMENT. INCLUDING ANTENNAS, RET MOTORS, TMA'S, COAX CABLES, AND RET CONTROL CABLES AS A COMPLETE SYTEM. GROUNDING SHALL BE EXECUTED BY QUALIFIED WIREMEN IN COMPLIANCE WITH MANUFACTURER'S SPECIFICATION AND RECOMMENDATION.
 - CONTRACTOR TO VERIFY THAT EXISTING COAX HANGERS ARE STACKABLE SNAP IN HANGERS. IF EXISTING HANGERS ARE NOT STACKABLE SNAP IN HANGERS THE CONTRACTOR SHALL REPLACE EXISTING HANGERS WITH NEW SNAP IN HANGERS IF APPLICABLE.

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| B | FINAL CD | RC | 06/29/21 |
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ATC SITE NUMBER:
306042

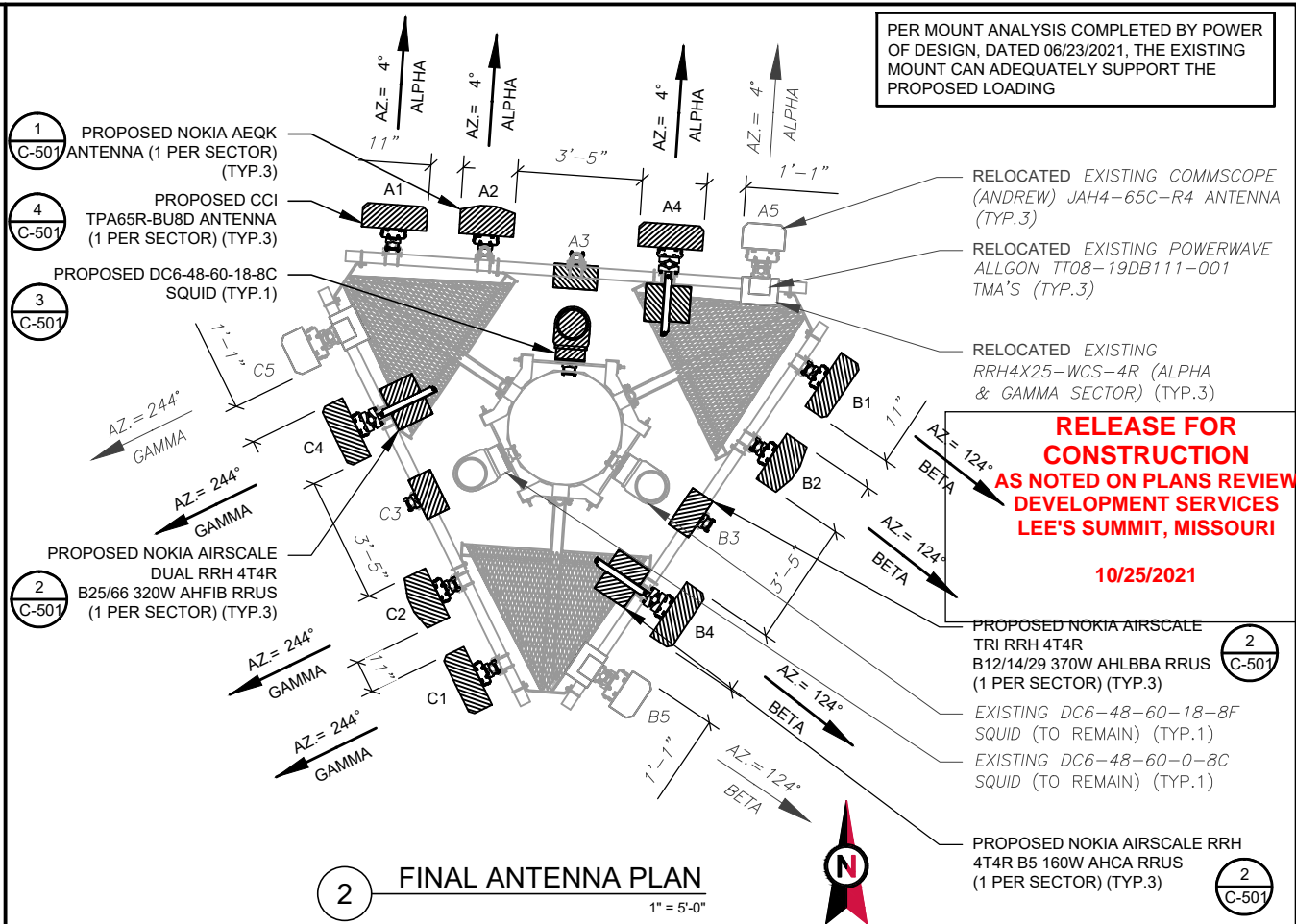
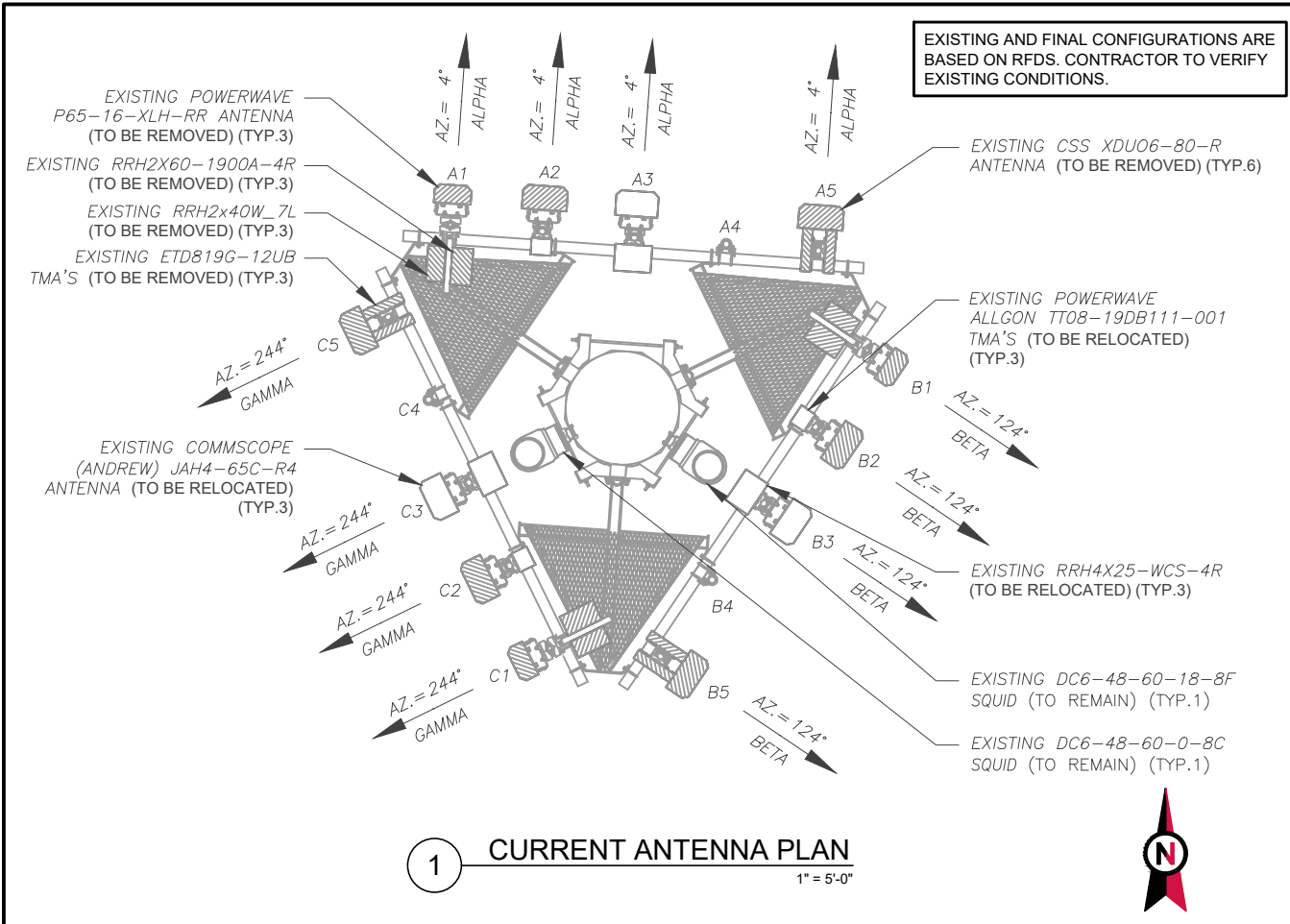
ATC SITE NAME:
WOODS CHAPEL

SITE ADDRESS:
1204 NORTHEAST WOODS CHAPEL ROAD
LEES SUMMIT, MO 64064



| | |
|----------------|--------------|
| DATE DRAWN: | 05/27/21 |
| ATC JOB NO: | 13618801 |
| CUSTOMER ID: | KS4070 |
| CUSTOMER NAME: | WOODS CHAPEL |

| | |
|-------------------------------|-----------------------|
| TOWER ELEVATION | |
| SHEET NUMBER: C-201 | REVISION: 0 |



| CURRENT ANTENNA SCHEDULE | | | | | | | |
|--------------------------|------|-----------------|-----|--------------------------------|-------------------|---------------------|------------------------------------|
| LOCATION | | ANTENNA SUMMARY | | | | NON ANTENNA SUMMARY | |
| SECTOR | RAD | AZ | POS | ANTENNA | BAND | STATUS | ADDITIONAL TOWER MOUNTED EQUIPMENT |
| ALPHA | 152' | 4° | A1 | POWERWAVE P65-17-XLH-RR | LTE 700/LTE PCS | RMV | RRH2X40W_7L |
| | | | A2 | CSS XDU06-80-R | UMTS 850/UMTS PCS | RMV | RRH2X60-1900A-4R |
| | | | A3 | COMMSCOPE (ANDREW) JAH4-65C-R4 | LTE WCS | REL | RRH4X25-WCS-4R |
| | | | A4 | - | - | - | - |
| | | | A5 | CSS XDU06-80-R | GSM 850/GSM PCS | RMV | (2) ETD819G-12UB TMA |
| BETA | 152' | 124° | B1 | POWERWAVE P65-17-XLH-RR | LTE 700/LTE PCS | RMV | RRH2X40W_7L |
| | | | B2 | CSS XDU06-80-R | UMTS 850/UMTS PCS | RMV | RRH2X60-1900A-4R |
| | | | B3 | COMMSCOPE (ANDREW) JAH4-65C-R4 | LTE WCS | REL | RRH4X25-WCS-4R |
| | | | B4 | - | - | - | - |
| | | | B5 | CSS XDU06-80-R | GSM 850/GSM PCS | RMV | (2) ETD819G-12UB TMA |
| GAMMA | 152' | 244° | C1 | POWERWAVE P65-17-XLH-RR | LTE 700/LTE PCS | RMV | RRH2X40W_7L |
| | | | C2 | CSS XDU06-80-R | UMTS 850/UMTS PCS | RMV | RRH2X60-1900A-4R |
| | | | C3 | COMMSCOPE (ANDREW) JAH4-65C-R4 | LTE WCS | REL | RRH4X25-WCS-4R |
| | | | C4 | - | - | - | - |
| | | | C5 | CSS XDU06-80-R | GSM 850/GSM PCS | RMV | (2) ETD819G-12UB TMA |

- NOTES
1. BASED ON APPROVED ATC APPLICATION 306042, DATED N/A. CONFIRM WITH AT&T MOBILITY REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG). GC TO CAP ALL UNUSED PORTS.
 2. ATC HAS NOT YET VERIFIED ANY EXISTING ANTENNA CONFIG OR MOUNT CONFIG. CONTRACTOR TO VERIFY MOUNT CONFIG HAS SUFFICIENT SPACE FOR PROPOSED LESSEE EQUIPMENT (EQUIP) (I.E. CLEARANCES, MOUNT PIPE, SUFFICIENT LENGTH, ETC.)
 3. ALL PROPOSED EQUIP INCLUDING ANTENNAS, COAX, ETC. SHALL BE MOUNTED IN ACCORDANCE WITH THE TOWER STRUCTURAL ANALYSIS ON FILE WITH ATC'S CM.
 4. CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.
 5. POSITIONS START WITH FIRST PIPE ON THE LEFT SIDE (AS VIEWED FROM BEHIND THE MOUNT).

STATUS ABBREVIATIONS

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

CABLE LENGTHS FOR JUMPERS

FIBER DISTRIBUTION/SQUID TO RRU: 15'
RRU TO ANTENNA: 10'

| FINAL ANTENNA SCHEDULE | | | | | | | |
|------------------------|------|-----------------|-----|--------------------------------|--------------------------------|---------------------|---|
| LOCATION | | ANTENNA SUMMARY | | | | NON ANTENNA SUMMARY | |
| SECTOR | RAD | AZ | POS | ANTENNA | BAND | STATUS | ADDITIONAL TOWER MOUNTED EQUIPMENT |
| ALPHA | 152' | 4° | A1 | CCI TPA65R-BU8D | LTE 700 | ADD | - |
| | | | A2 | NOKIA AEQK | 5G CBAND | ADD | - |
| | | | A3 | - | - | - | AIRSCALE TRI RRH 4T4R B12/14/29 370W AHLBBA |
| | | | A4 | CCI TPA65R-BU8D | 5G 850/LTE PCS/ 5G PCS/ 5G AWS | ADD | AIRSCALE RRH 4T4R B5 160W AHCA |
| | | | A5 | COMMSCOPE (ANDREW) JAH4-65C-R4 | UMTS 850/LTE WCS | REL | AIRSCALE DUAL RRH 4T4R B25/66 320W AHFIB |
| BETA | 152' | 124° | B1 | CCI TPA65R-BU8D | LTE 700 | ADD | - |
| | | | B2 | NOKIA AEQK | 5G CBAND | ADD | - |
| | | | B3 | - | - | - | - |
| | | | B4 | CCI TPA65R-BU8D | 5G 850/LTE PCS/ 5G PCS/ 5G AWS | ADD | AIRSCALE TRI RRH 4T4R B12/14/29 370W AHLBBA |
| | | | B5 | COMMSCOPE (ANDREW) JAH4-65C-R4 | UMTS 850/LTE WCS | REL | AIRSCALE RRH 4T4R B5 160W AHCA |
| GAMMA | 152' | 244° | C1 | CCI TPA65R-BU8D | LTE 700 | ADD | - |
| | | | C2 | NOKIA AEQK | 5G CBAND | ADD | - |
| | | | C3 | - | - | - | - |
| | | | C4 | CCI TPA65R-BU8D | 5G 850/LTE PCS/ 5G PCS/ 5G AWS | ADD | AIRSCALE TRI RRH 4T4R B12/14/29 370W AHLBBA |
| | | | C5 | COMMSCOPE (ANDREW) JAH4-65C-R4 | UMTS 850/LTE WCS | REL | AIRSCALE RRH 4T4R B5 160W AHCA |

| FINAL FIBER DISTRIBUTION/SQUID | | FINAL CABLING SUMMARY | | | |
|--------------------------------|--------|-----------------------|----------------------|-----------------------------|--------|
| MODEL NUMBER | STATUS | COAX | DC | FIBER | STATUS |
| DC6-48-60-18-8F | RMN | (9) 1-5/8" | (4) #8 AWG DC CABLES | (1) 3/8" RET CONTROL CABLE, | RMN |
| DC6-48-60-0-8C | RMN | - | - | (1) 18 PAIR FIBER TRUNK | RMN |
| DC6-48-60-18-8C | ADD | - | (2) #8 AWG DC CABLES | (1) 18 PAIR FIBER TRUNK | ADD |

| EXISTING FIBER DISTRIBUTION/SQUID | | EXISTING CABLING SUMMARY | | | |
|-----------------------------------|--------|--------------------------|----------------------|-----------------------------|--------|
| MODEL NUMBER | STATUS | COAX | DC | FIBER | STATUS |
| DC6-48-60-18-8F | RMN | (9) 1-5/8" | (4) #8 AWG DC CABLES | (1) 3/8" RET CONTROL CABLE, | RMN |
| DC6-48-60-0-8C | RMN | - | - | (1) 18 PAIR FIBER TRUNK | RMN |

3 EQUIPMENT SCHEDULES

49030 Pontiac Trail, Suite 400
Wixom, Michigan 48393
PHONE: (248) 705-9212

| REV. | DESCRIPTION | BY | DATE |
|------|-------------|----|----------|
| A | PRELIM | RC | 05/27/21 |
| B | FINAL CD | RC | 06/29/21 |
| | | | |
| | | | |

ATC SITE NUMBER:
306042

ATC SITE NAME:
WOODS CHAPEL

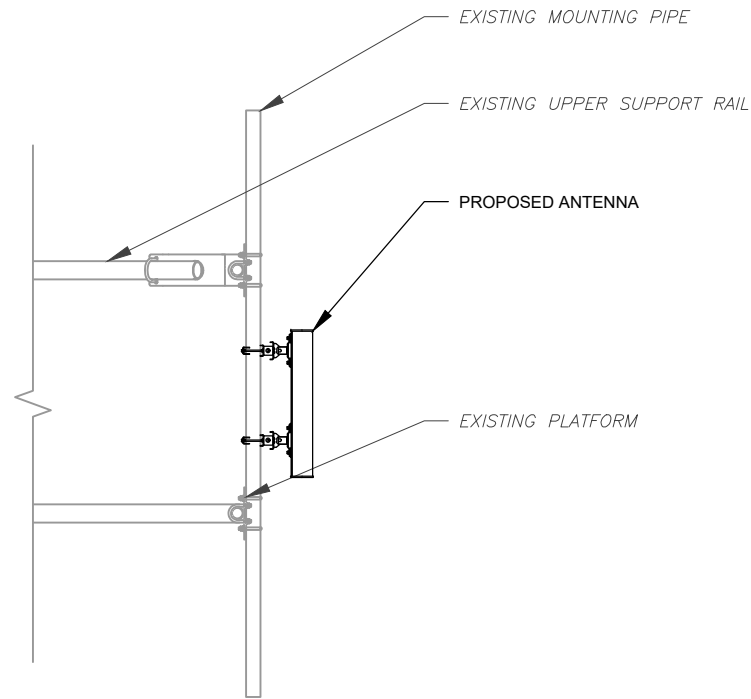
SITE ADDRESS:
1204 NORTHEAST WOODS CHAPEL ROAD
LEES SUMMIT, MO 64064

PETER P. LICHOMSKI
NUMBER A-2015003113
ARCHITECT

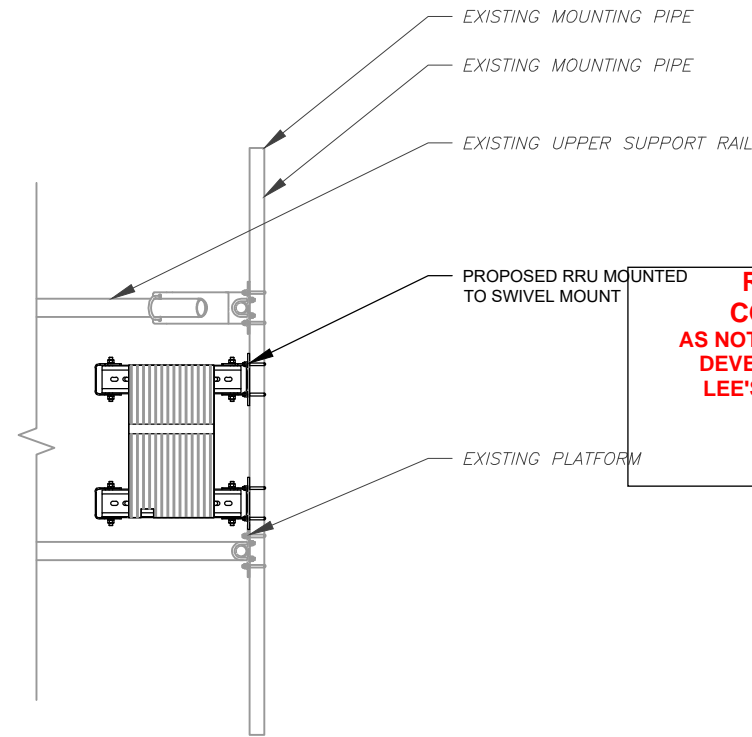
| | |
|----------------|--------------|
| DATE DRAWN: | 05/27/21 |
| ATC JOB NO: | 13618801 |
| CUSTOMER ID: | KS4070 |
| CUSTOMER NAME: | WOODS CHAPEL |

RF SCHEDULE AND ANTENNA INSTALLATION

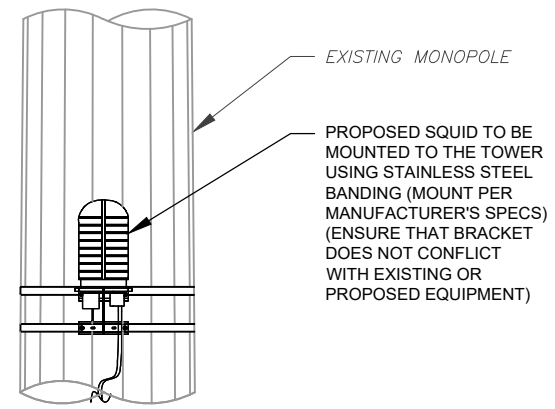
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|-------------------------------|-----------------------|



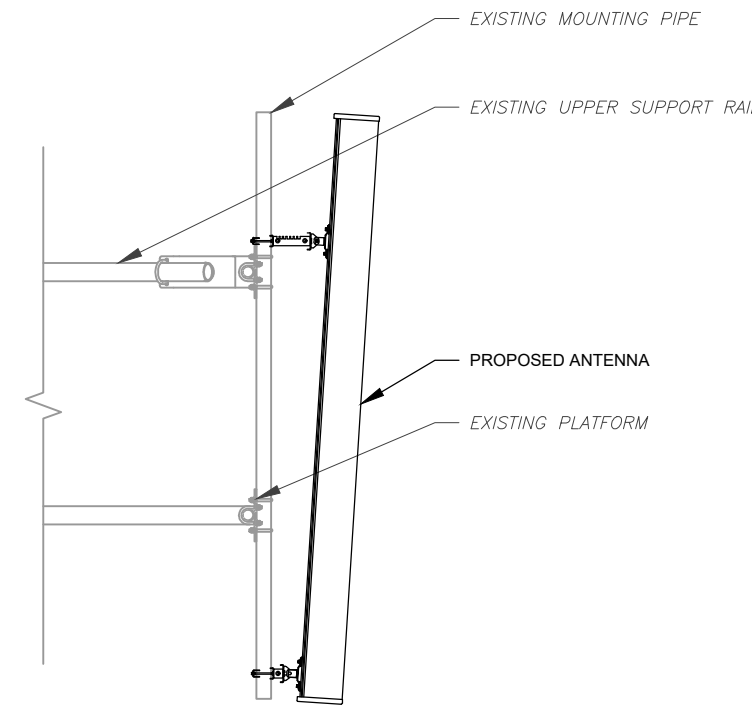
1 TYPICAL ANTENNA DETAIL
-FOR REFERENCE ONLY
SCALE: N.T.S.



2 TYPICAL RRU DETAIL
-FOR REFERENCE ONLY
SCALE: N.T.S.



3 TYPICAL SQUID DETAIL
-FOR REFERENCE ONLY
SCALE: N.T.S.



4 TYPICAL ANTENNA DETAIL
-FOR REFERENCE ONLY
SCALE: N.T.S.

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10/25/2021



LAB
49030 Pontiac Trail, Suite 400
Wixom, Michigan 48393
PHONE: (248) 705-9212

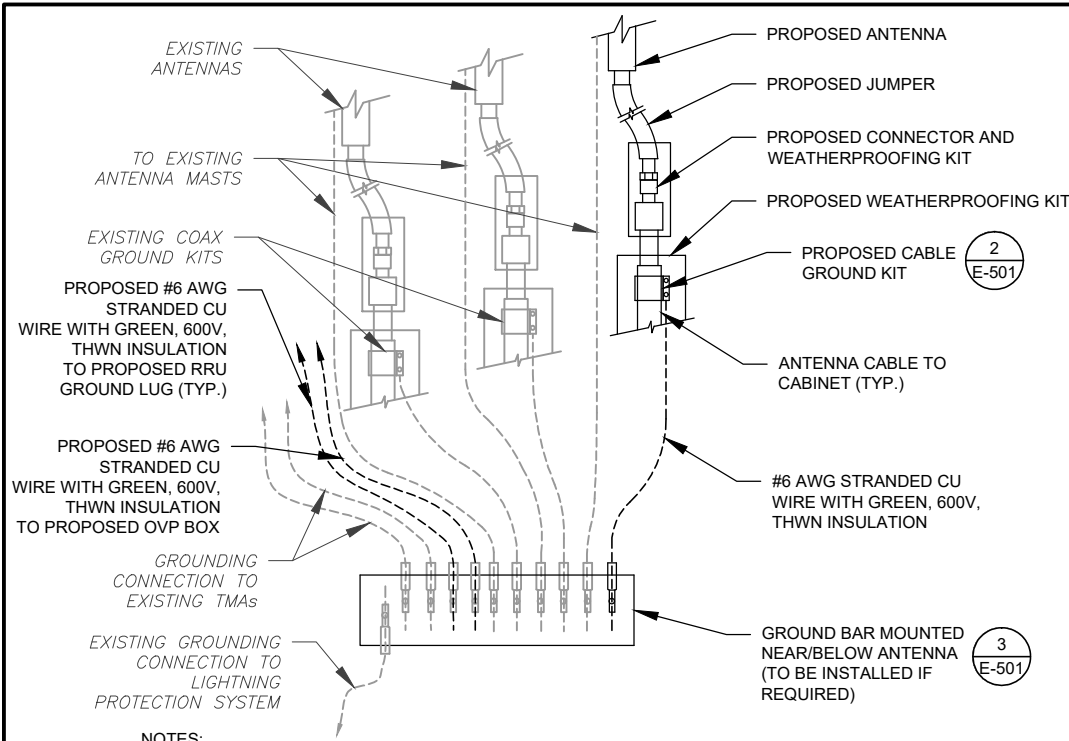
| REV. | DESCRIPTION | BY | DATE |
|------|-------------|----|----------|
| A | PRELIM | RC | 05/27/21 |
| 0 | FINAL CD | RC | 06/29/21 |
| | | | |
| | | | |

ATC SITE NUMBER:
306042
ATC SITE NAME:
**WOODS
CHAPEL**
SITE ADDRESS:
1204 NORTHEAST WOODS CHAPEL ROAD
LEES SUMMIT, MO 64064



| | |
|----------------|--------------|
| DATE DRAWN: | 05/27/21 |
| ATC JOB NO: | 13618801 |
| CUSTOMER ID: | KS4070 |
| CUSTOMER NAME: | WOODS CHAPEL |

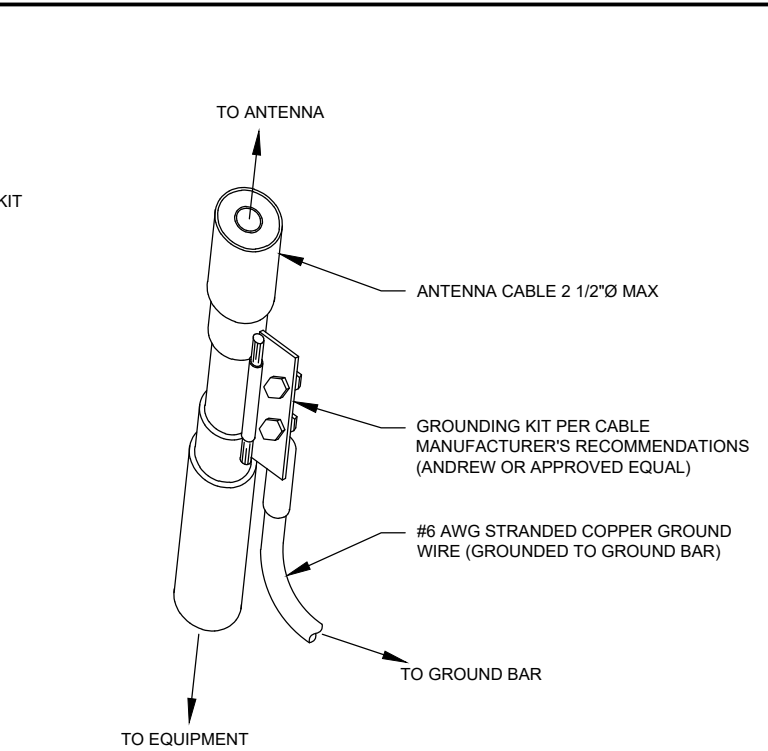
| CONSTRUCTION DETAILS | |
|-------------------------------|-----------------------|
| SHEET NUMBER: C-501 | REVISION: 0 |



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

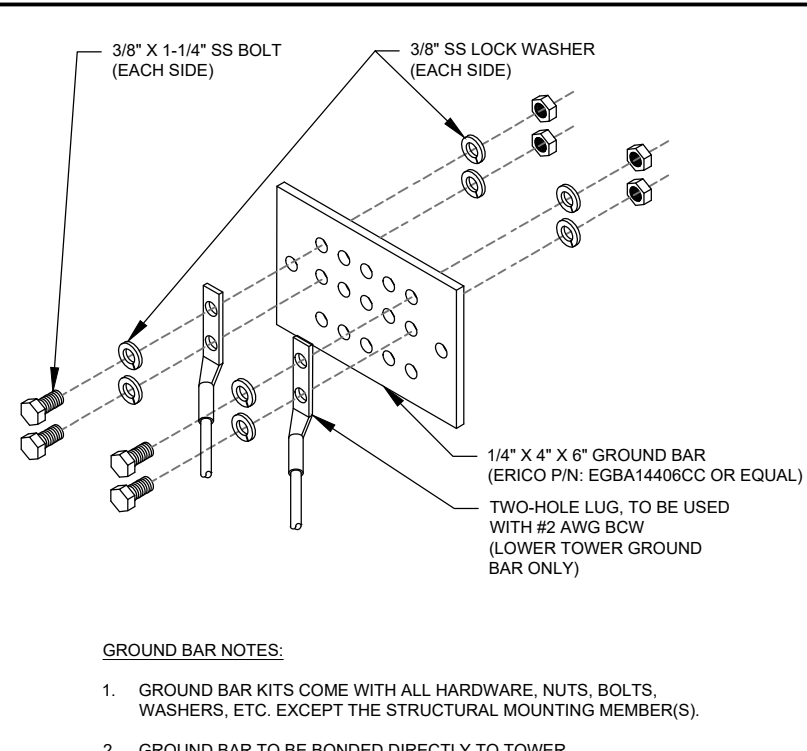
1 TYPICAL ANTENNA GROUNDING DIAGRAM
SCALE: N.T.S.



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



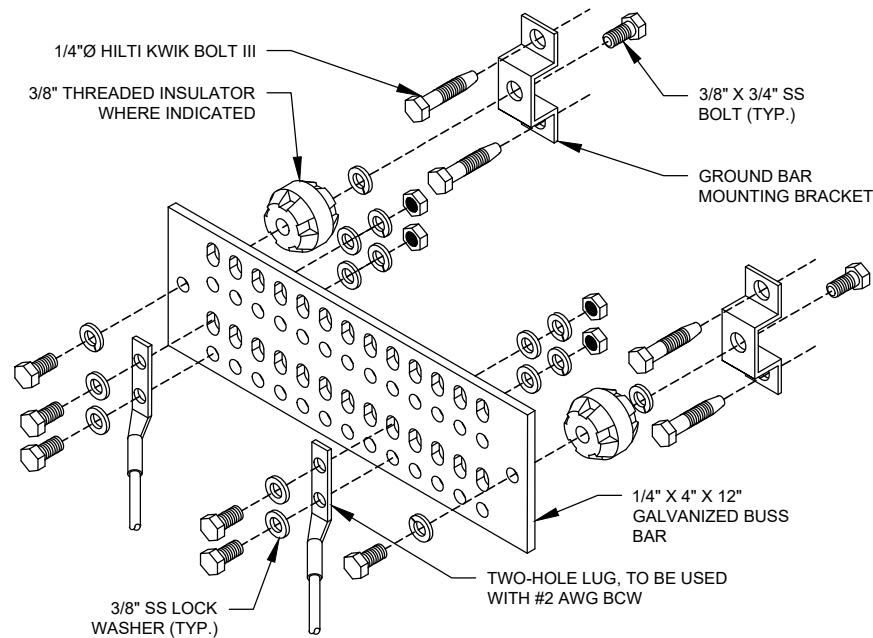
GROUND BAR NOTES:

- 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.

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SCALE: N.T.S.

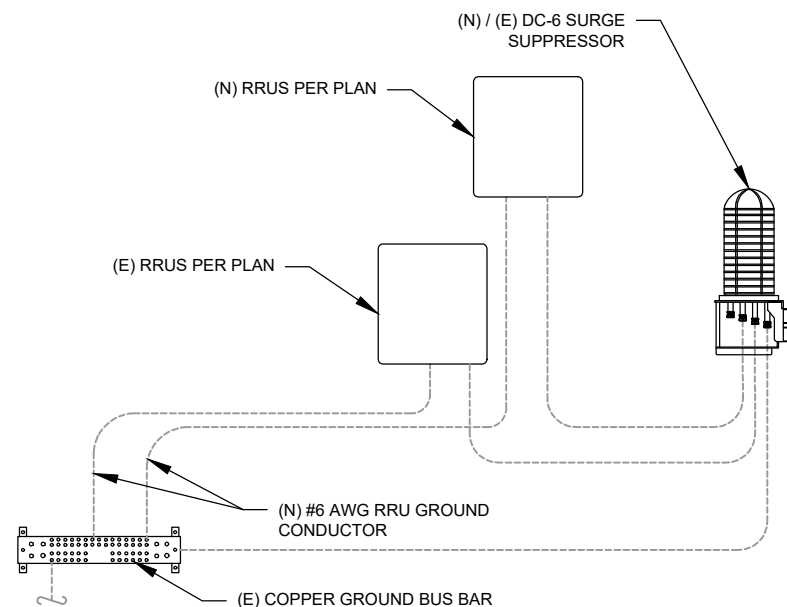
3 TYP. TOWER GROUND BAR DETAIL
SCALE: N.T.S.



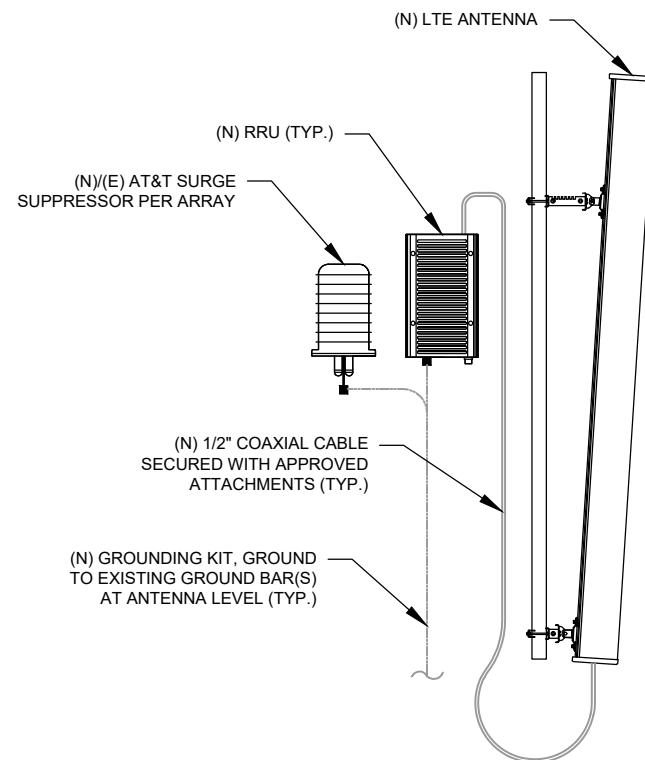
GROUND BAR NOTES:

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

4 TYP. MAIN GROUND BAR DETAIL
SCALE: N.T.S.



5 TYP. RRU GROUNDING
SCALE: N.T.S.



6 TYP. ANTENNA/RRU GROUNDING
SCALE: N.T.S.



49030 Pontiac Trail, Suite 400
Wixom, Michigan 48393
PHONE: (248) 705-9212

| REV. | DESCRIPTION | BY | DATE |
|------|-------------|----|----------|
| A | PRELIM | RC | 05/27/21 |
| B | FINAL CD | RC | 06/29/21 |
| | | | |
| | | | |

ATC SITE NUMBER:

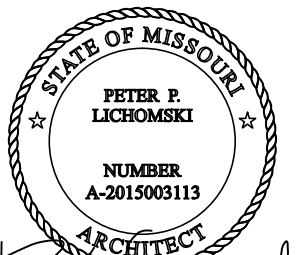
306042

ATC SITE NAME:

WOODS
CHAPEL

SITE ADDRESS:

1204 NORTHEAST WOODS CHAPEL ROAD
LEES SUMMIT, MO 64064



| | |
|----------------|--------------|
| DATE DRAWN: | 05/27/21 |
| ATC JOB NO: | 13618801 |
| CUSTOMER ID: | KS4070 |
| CUSTOMER NAME: | WOODS CHAPEL |

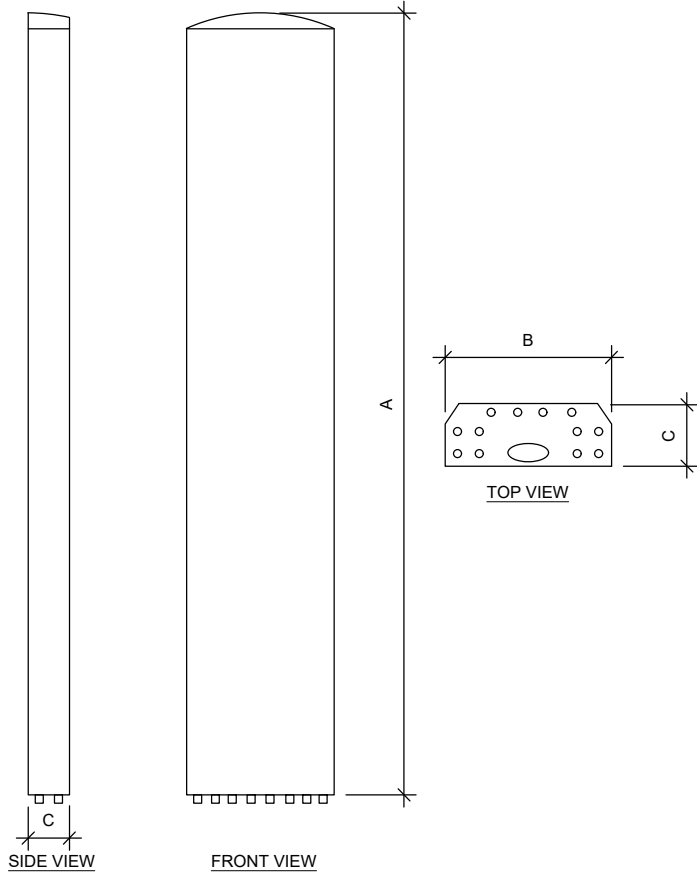
GROUNDING
DETAILS

SHEET NUMBER:

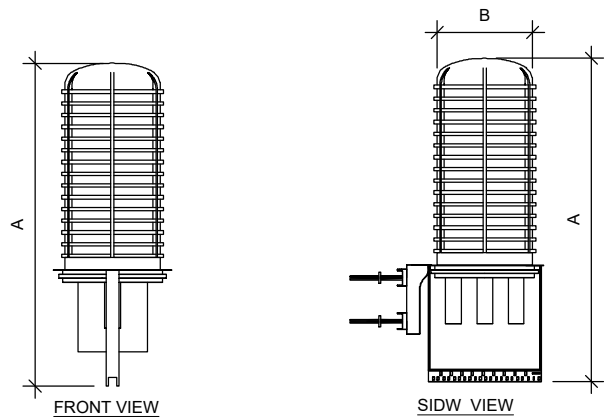
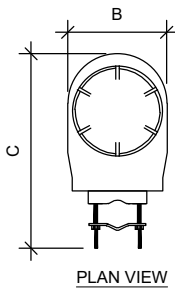
E-501

REVISION:

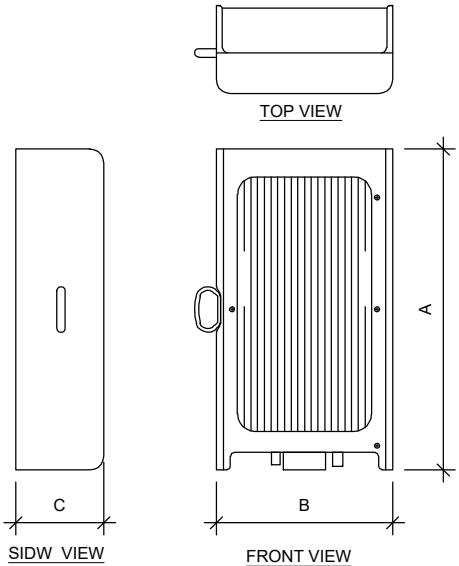
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| ANTENNA SPECIFICATIONS | | | | |
|------------------------|-------|-------|------|--------------|
| ANTENNA MODEL | A | B | C | WEIGHT (LBS) |
| AEQK | 29.5" | 17.2" | 9.5" | 99.2 |
| TPA65R-BU8D | 96" | 21" | 7.8" | 82.5 |



| RAYCAP SPECIFICATIONS | | | | |
|-----------------------|-------|-------|------|--------------|
| RAYCAP MODEL | A | B | C | WEIGHT (LBS) |
| DC6-48-60-18-8C | 20.1" | 18.2" | 6.4" | 16.0 |



| RRU SPECIFICATIONS | | | | |
|--|-------|-------|------|--------------|
| RRU MODEL | A | B | C | WEIGHT (LBS) |
| NOKIA AIRSCALE TRI RRH 4T4R B12/14/29 370 W AHLBBA | 24.0" | 14.1" | 7.8" | 94.8 |
| AIRSCALE RRH 4T4R B5 160W AHCA | 13.3" | 11.6" | 6.5" | 36.8 |
| AIRSCALE DUAL RRH 4T4R B25/66 320W AHFIB | 28.7" | 15.4" | 9.4" | 88.2 |

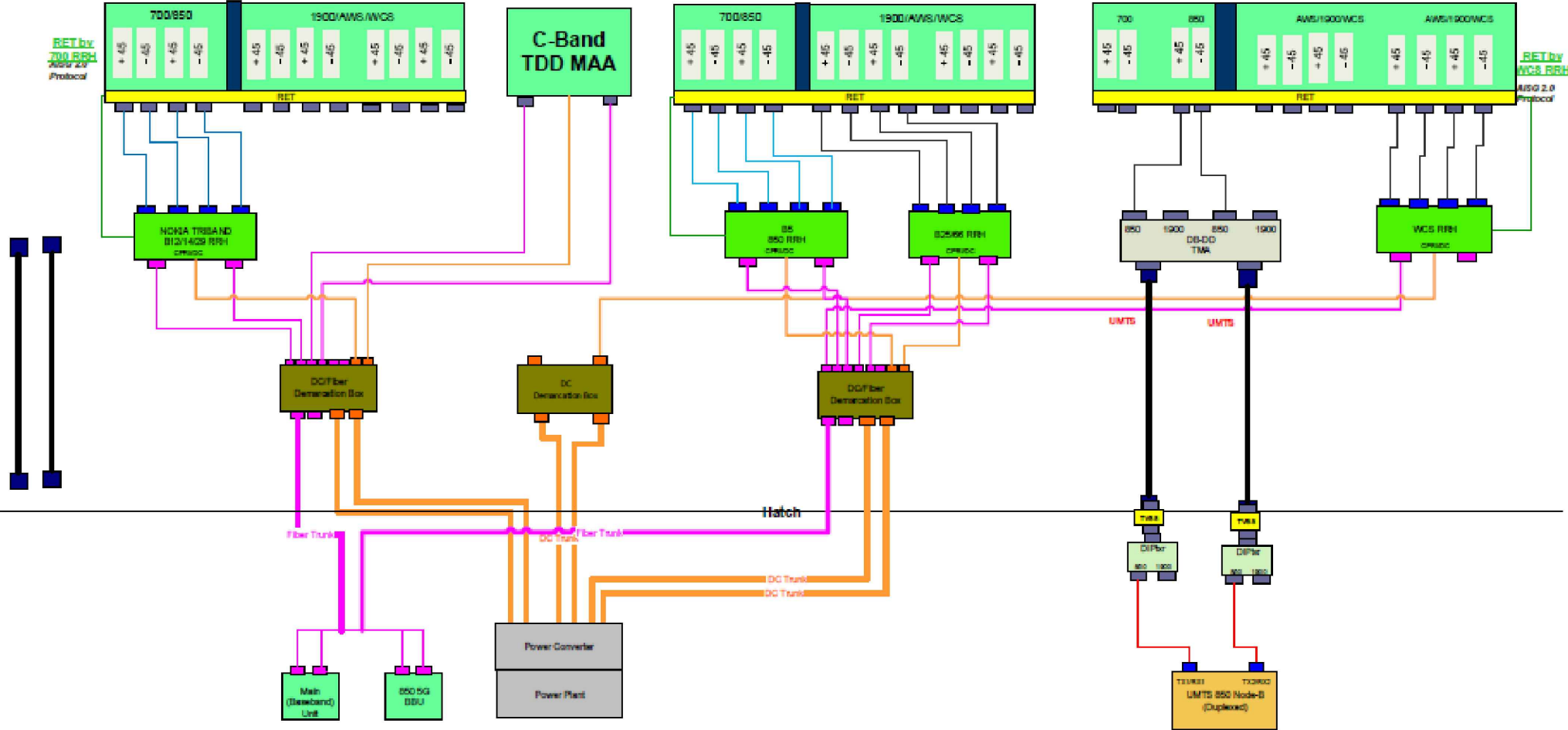
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10/25/2021

| | | | | | | | |
|-------------------|----------|---------------------|------------------|----------|-------------|------------------|-----------------|
| Diagram - Sector | A | Diagram File Name - | KS4070-Cband.rvt | Market - | KANSAS CITY | Market Cluster - | MISSOURI/KANSAS |
| Atoll Site Name - | KS404070 | Location Name - | WOODS CHAPEL | | | | |
| Comments | | | | | | | |



1 PLUMBING DIAGRAM
SCALE: NOT TO SCALE

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

SUPPLEMENTAL

SHEET NUMBER:

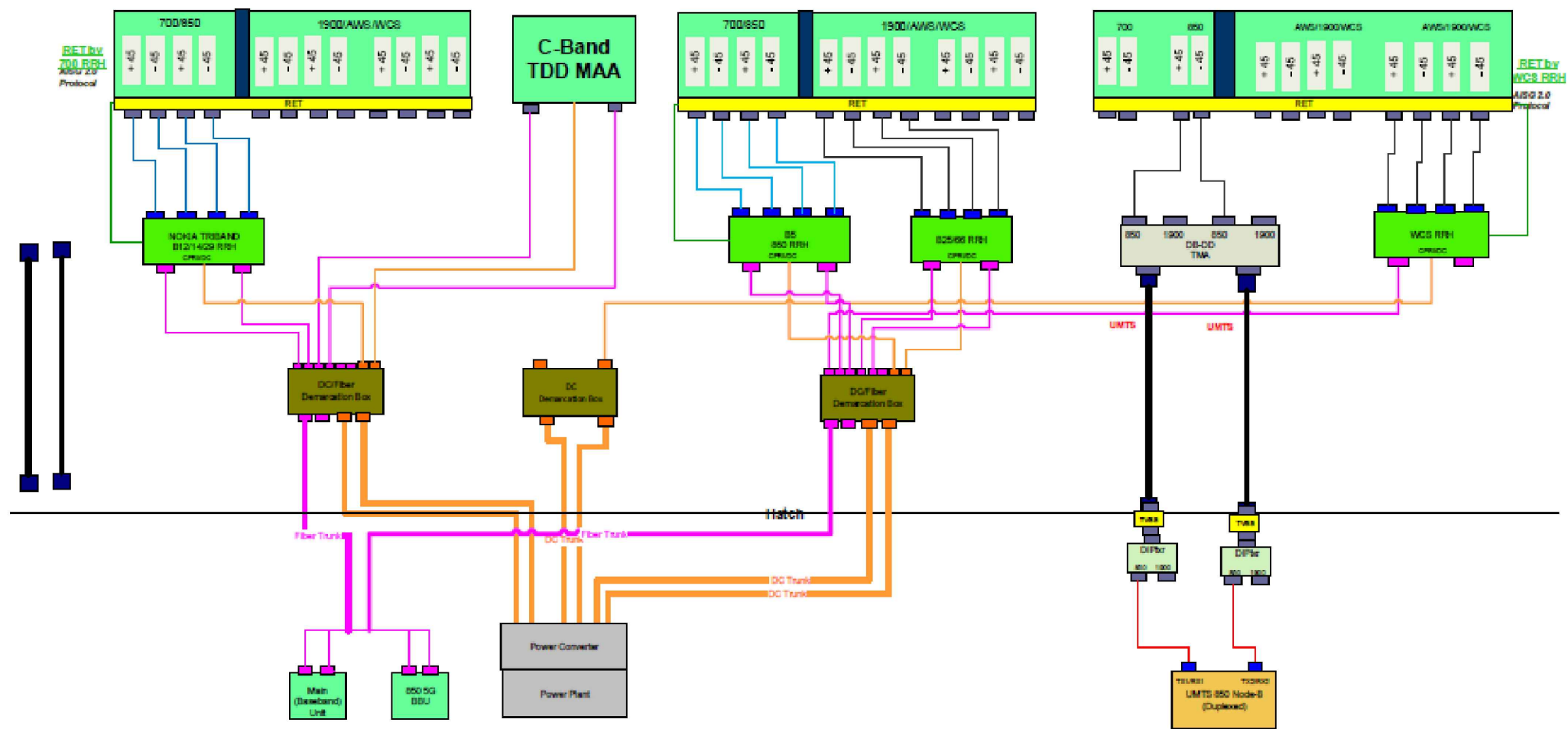
R-602

REVISION:

0

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Diagram - Sector: B
Alt. Site Name: KSL04070
Diagram File Name: KSL070-Cband.vsd
Location Name: WOODS CHAPEL
Market: KANSAS CITY
Market Cluster: MISSOURI/KANSAS



1 PLUMBING DIAGRAM
SCALE: NOT TO SCALE

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

SUPPLEMENTAL

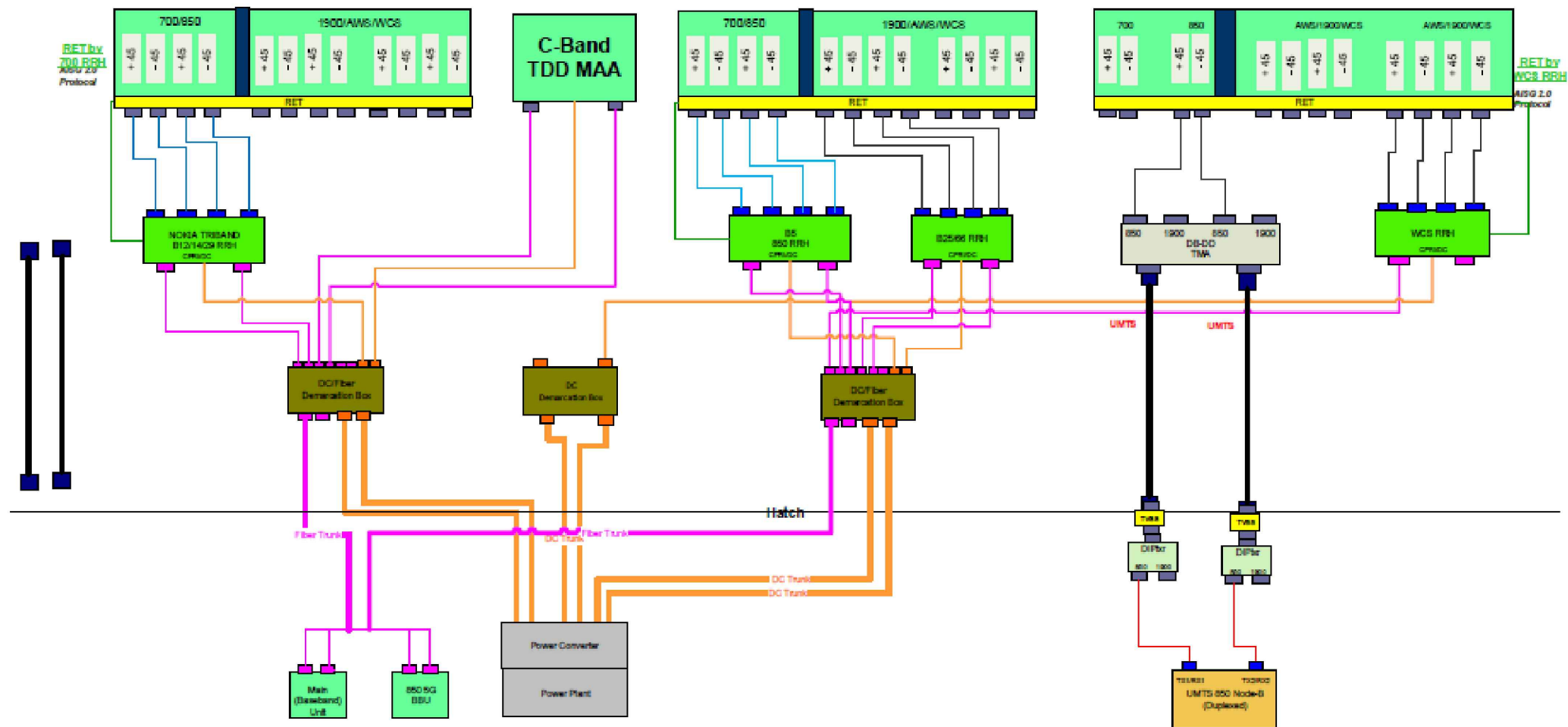
SHEET NUMBER:

R-603

REVISION:

0

Diagram - Sector: C
Aerial Site Name - KS104070
Comments:
Diagram File Name - KS4070-Cband.rvt
Location Name - WOODS CHAPEL
Market - KANSAS CITY
Market Cluster - MISSOURI/KANSAS





This report was prepared for American Tower Corporation by



Eng. Number 13618801_C8_05
June 23, 2021
Page 1

Antenna Mount Analysis Report

ATC Site Name : Woods Chapel
ATC Site Number : 306042
Engineering Number : 13618801_C8_05
Mount Elevation : 150 ft
Carrier : AT&T Mobility
Carrier Site Name : WOODS CHAPEL
Carrier Site Number : KS4070
Site Location : 1204 N.E. Woods Chapel Road
Lee Summit, MO 64064
38.98321389, -94.35006389
County : Jackson
Date : June 23, 2021
Max Usage : 88 %
Result : Pass

Prepared By: Uma Toluganti
Jason G. Cheronis
Vice President of Structural Engineering



6/23/21

POD GROUP - 1033 E. Turkeyfoot Lake Road, Suite 205 - Akron, OH 44312 - 330-961-7432 - www.podgrp.com

Introduction

The purpose of this report is to summarize results of the antenna mount analysis performed for AT&T Mobility at 152 ft.

Supporting Documents

| | |
|---------------------|---|
| Spec. Sheet | Spec Sheet for Site Pro 1 p/n: RMQP-496-HK |
| Structural Analysis | American Tower Corp Project #13618801, dated May 10, 2021 |
| RFDS | RFDS dated November 11, 2020 |
| Photos | Site photos from 2020 |

Analysis

This antenna mount was analyzed using RISA-3D v17 analysis software

| | |
|-------------------------------|--|
| Basic Wind Speed: | 109 mph, Vult (3-Second Gust) |
| Basic Wind Speed w/ Ice: | 40 mph (3-Second Gust) w/ 1.5" Radial Ice (Escalating) |
| Codes: | TIA-222-H |
| Structure Class: | II |
| Exposure Category: | C |
| Topographic Factor Procedure: | Method 2 |
| Topographic Feature: | Flat |
| Crest Height: | 0 ft |
| Spectral Response: | S _s = 0.099, S _i = 0.068 |
| Site Class: | D (assumed) |
| Live Loads: | L _m = 500 lbs, L _v = 250 lbs |

Conclusion

Based on the analysis results, the antenna mount meets the requirements per the applicable codes listed above. The mount can support the equipment as described in this report.

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

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Antenna Loading

| Mount Centerline (ft) | Antenna Centerline (ft) | Qty | Antenna Model |
|-----------------------|-------------------------|-----|--|
| 150 | 152 | 3 | Commscope JAH4-65C-R4 |
| | | 3 | Nokia AEQK AirScale MAA 64T64R 192AE n77 200W |
| | | 6 | CCI TPA65R-BU8D |
| | | 3 | Powerwave TT08-19DB111-001 |
| | | 1 | Raycap DC6-48-60-0-8C* |
| | | 1 | Raycap DC6-48-60-18-8C* |
| | | 1 | Raycap DC6-48-60-18-8F* |
| | | 3 | Nokia AHLBBA |
| | | 3 | Nokia AirScale Dual RRH 4T4R B25/66 320W AHFIB |
| | | 3 | Nokia AirScale RRH 4T4R B5 160W AHCA |
| | | 3 | RRH4X25-WCS |

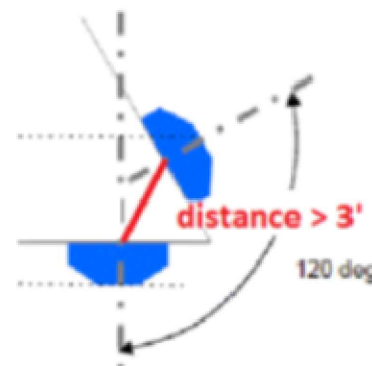
*Equipment assumed to be mounted directly to tower.

Structure Usages

| Structural Component | Controlling Usage | Pass/Fail |
|----------------------|-------------------|-----------|
| Plate | 88 % | Pass |
| Support Rail | 68 % | Pass |
| Mount Pipes | 60 % | Pass |
| Angle | 50 % | Pass |
| Support | 20 % | Pass |
| Face | 19 % | Pass |

RF REQUIREMENTS FOR 700 B14 FIRSTNET, 700 B12, 700D B29 ANTENNA SEPARATION

- ☐ Horizontal separation (side to side of antenna): $\geq 3'$
- ☐ Vertical separation (between the tips of the antennas): $> 3'$
- ☐ Inter-sector separation: $> 3'$ between the center of the antenna backplanes.



- ☐ Please note additional horizontal separation may be required if B14 antennas azimuth are different from others or antennas are severely angled with respect to the mount.
- ☐ Typical 3' horizontal separation can tolerate skew angle up to 6° .

