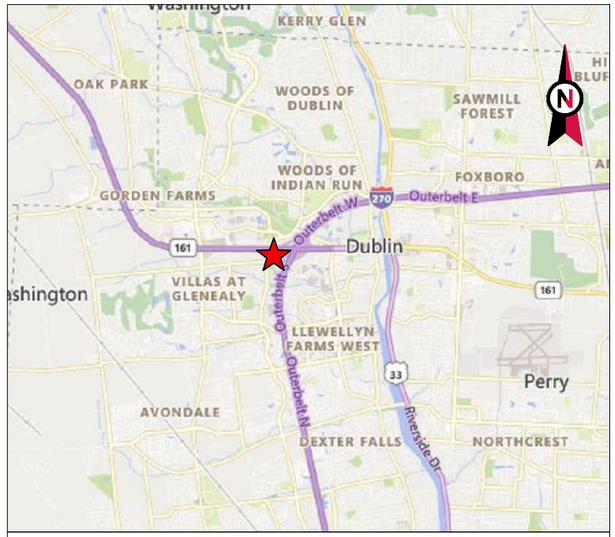
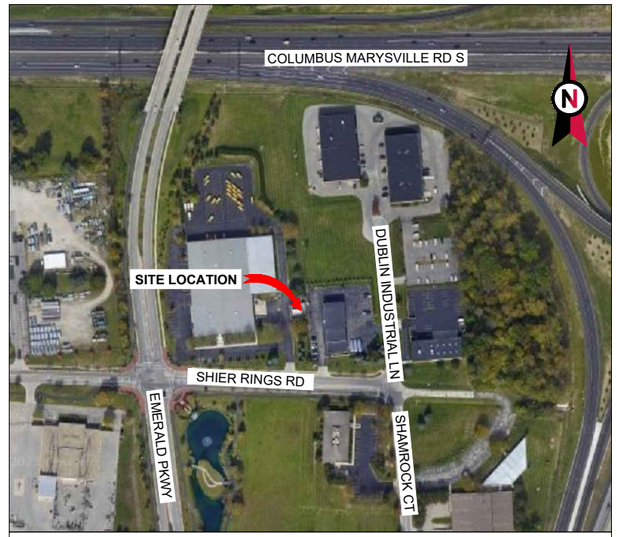


VICINITY MAP

AMERICAN TOWER®

ATC SITE NAME: DUBLIN OH
ATC SITE NUMBER: 307538
AT&T PACE NUMBER: MROWP052577, MROWP051977
AT&T SITE ID: OHL03059
AT&T FA CODE:10011704
AT&T SITE NAME: DUBLIN
SITE ADDRESS: 5780 SHIER-RINGS ROAD
DUBLIN, OH 43017



LOCATION MAP

AT&T MOBILITY
ANTENNA AMENDMENT DRAWINGS

COMPLIANCE CODE

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.

1. 2017 OHIO BUILDING CODE (OBC)
2. 2017 NATIONAL ELECTRIC CODE (NEC)
3. LOCAL BUILDING CODE
4. CITY/COUNTY ORDINANCES

UTILITY COMPANIES

POWER COMPANY: TBD
PHONE: TBD
TELEPHONE COMPANY: TBD
PHONE: TBD

811 Know what's below. Call before you dig.

PROJECT SUMMARY

SITE ADDRESS:

5780 SHIER-RINGS ROAD

DUBLIN, OH 43017

COUNTY: FRANKLIN

GEOGRAPHIC COORDINATES:

LATITUDE: 40.0970000

LONGITUDE: -83.1402800

GROUND ELEVATION: 906' AMSL

PROJECT TEAM

TOWER OWNER:

AMERICAN TOWER
10 PRESIDENTIAL WAY
WOBURN, MA 01801

ARCHITECT (COORDIATING PROFESSIONAL):

PETER LICHOMSKI, AIA
49030 PONTIAC TRAIL, SUITE 400,
WIXOM, MI 48393
PH: (248) 705-9212

PROPERTY OWNER:

TBD

APPLICANT:

AT&T MOBILITY

PROJECT DESCRIPTION

THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW:

TOWER WORK:

REMOVE (3) ANTENNA(s) AND (2) #8 AWG DC CABLE(s)

INSTALL (3) ANTENNA(s), (2) #6 AWG DC CABLE(s)

EXISTING (9) ANTENNA(s), (12) RRH(s), (3) SQUID(s), (12) 1-5/8" COAX CABLE(s), (1) 12 PAIR FIBER TRUNK AND (1) 18 PAIR FIBER TRUNK AND (4) #6 AWG DC CABLE(s) TO REMAIN

GROUND WORK:

INSTALL (3) ABIA, (1) ASIA, (3) ABIL, (1) ASIK

EXISTING (12) DIPLEXER TO REMAIN

PROJECT NOTES

1. THE FACILITY IS UNMANNED.
2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE.
3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE.
4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED.
5. HANDICAP ACCESS IS NOT REQUIRED.

PROJECT LOCATION DIRECTIONS

FROM 4199 WEAVER CT. S HILLIARD, OHDRIVE NORTH ON WEAVER CT. STHEN TURN LEFT ON NORTHWEST PKWYTURN RIGHT ON AVERY RDCONTINUE NORTH ON AVERY RD.TURN RIGHT ON SHEIR RINGS RD.CONTINUE ON SHEIR RINGS RD APPROX 3 TO 4 MILESSITE IS ON LEFT BEHIND STANLEY STEAMER

SHEET INDEX

SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
G-001	COVER SHEET	0	06/25/21	RC
G-002	GENERAL NOTES	0	06/25/21	RC
C-101	DETAILED SITE PLAN	0	06/25/21	RC
C-102	DETAILED EQUIPMENT LAYOUT	0	06/25/21	RC
C-201	TOWER ELEVATION	0	06/25/21	RC
C-401	CURRENT ANTENNA PLAN AND EXISTING ANTENNA SCHEDULE	0	06/25/21	RC
C-402	PROPOSED ANTENNA PLAN AND FINAL ANTENNA SCHEDULE	0	06/25/21	RC
C-501	CONSTRUCTION DETAILS	0	06/25/21	RC
E-501	GROUNDING DETAILS	0	06/25/21	RC
R-601	SUPPLEMENTAL			
R-602	SUPPLEMENTAL			
R-603	SUPPLEMENTAL			
R-604	SUPPLEMENTAL			
R-605	SUPPLEMENTAL			
R-606	SUPPLEMENTAL			
R-607	SUPPLEMENTAL			

AMERICAN TOWER®

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

REV.	DESCRIPTION	BY	DATE
A	PRELIM	RC	04/09/21
0	FINAL CD	RC	06/25/21

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307538
ATC SITE NAME:
DUBLIN OH
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DUBLIN, OH 43017

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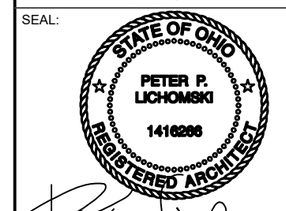


NAME: PETER LICHOMSKI
LICENSE NO: 1416266
EXP DATE: 12/31/2021

AT&T

DATE DRAWN:	04/06/21
ATC JOB NO:	13619927
CUSTOMER ID:	OHL03059
CUSTOMER NAME:	MROWP052577

COVER SHEET

SHEET NUMBER:	REVISION:
G-001	0

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

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

AMERICAN TOWER®

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

REV.	DESCRIPTION	BY	DATE
A	PRELIM	RC	04/09/21
0	FINAL CD	RC	06/25/21

ATC SITE NUMBER:
307538
ATC SITE NAME:
DUBLIN OH
AT&T MOBILITY SITE NAME:
DUBLIN
SITE ADDRESS:
5780 SHIER-RINGS ROAD
DUBLIN, OH 43017

SEAL:
STATE OF OHIO
PETER P. LICHOMSKI
1416266
REGISTERED ARCHITECT

NAME: PETER LICHOMSKI
LICENSE NO: 1416266
EXP DATE: 12/31/2021

AT&T

DATE DRAWN:	04/06/21
ATC JOB NO:	13619927
CUSTOMER ID:	OHL03059
CUSTOMER NAME:	MROWP052577

GENERAL NOTES

SHEET NUMBER:	REVISION:
G-002	0

SITE PLAN NOTES:

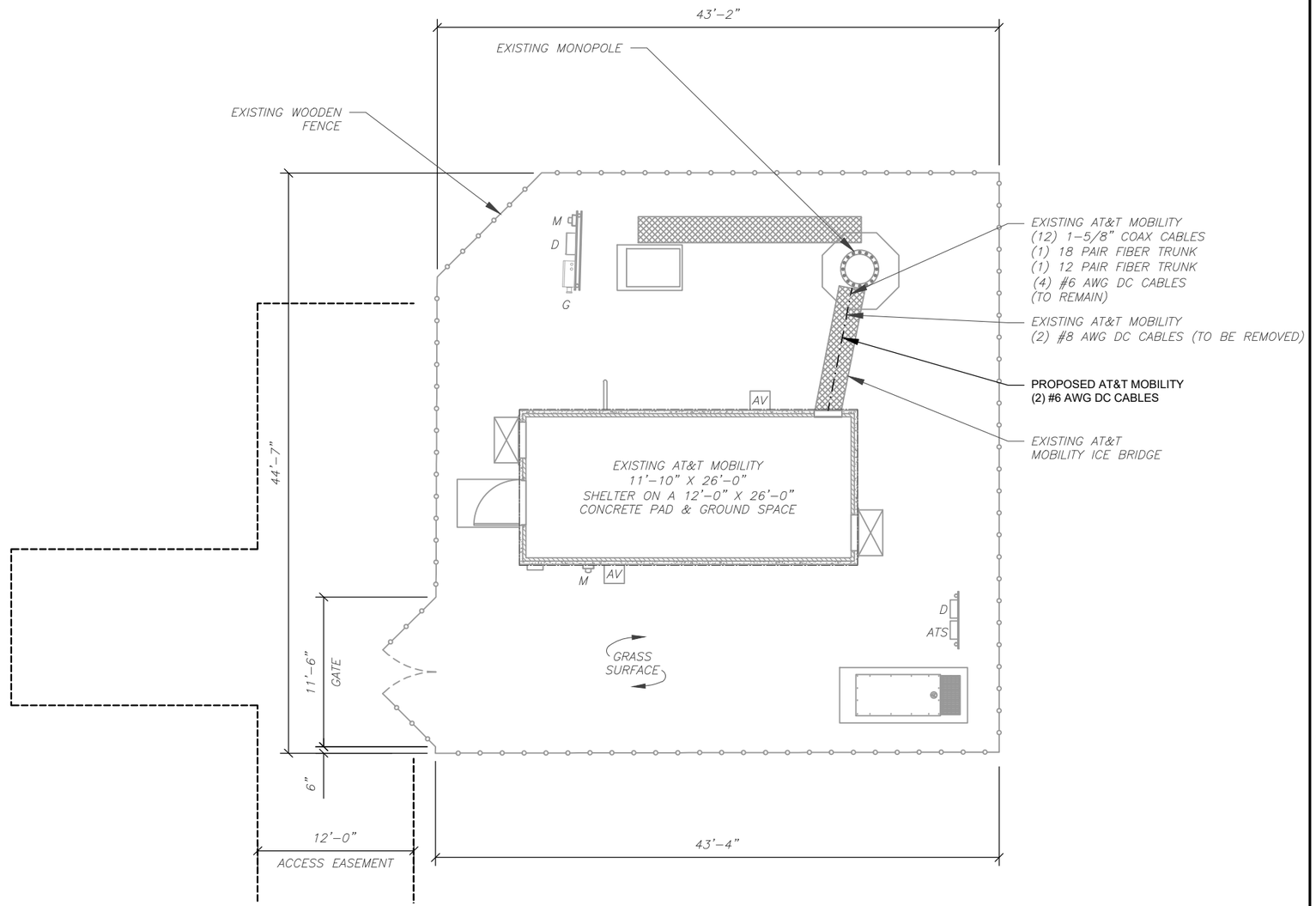
1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.

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. THIS PROJECT INCLUDES NO INSTALL OR MODIFICATION AT GRADE.

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 **209'**. 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.

1 DETAILED SITE PLAN

0 10' 20'

SCALE: 1"=10' (11X17)
1"=5' (22X34)

GRAPHIC SCALE

10 0 5 10

(IN FEET)
1 UNIT = 10 FEET

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LAB

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PETER P. LICHOMSKI
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REGISTERED ARCHITECT

NAME: PETER LICHOMSKI
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AT&T

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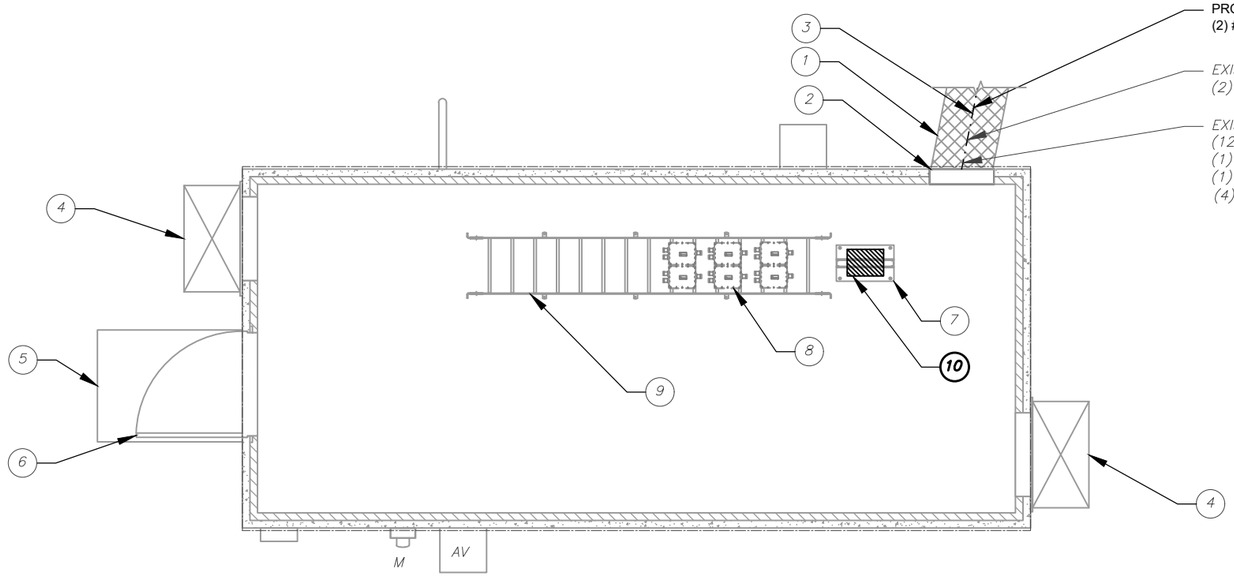
ATC JOB NO:	13619927
CUSTOMER ID:	OHL03059
CUSTOMER NAME:	MROWP052577

DETAILED SITE PLAN

SHEET NUMBER:	REVISION:
C-101	0



EXISTING EQUIPMENT

1. ICE BRIDGE
2. COAX PORT
3. COAX TRUNK CABLE
4. HVAC
5. STOOP
6. DOOR
7. FIF RACK
8. (12) LGP 13513 DIPLEXERS
9. LADDER
10. ADD (3) ABIA, (1) ASIA, (3) ABIL, (1) ASIK

1 FINAL SHELTER EQUIPMENT

0 5' 10'

SCALE: 1"=5' (11X17)
1"=2.5' (22X34)

AMERICAN TOWER®

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DATE DRAWN:	04/06/21
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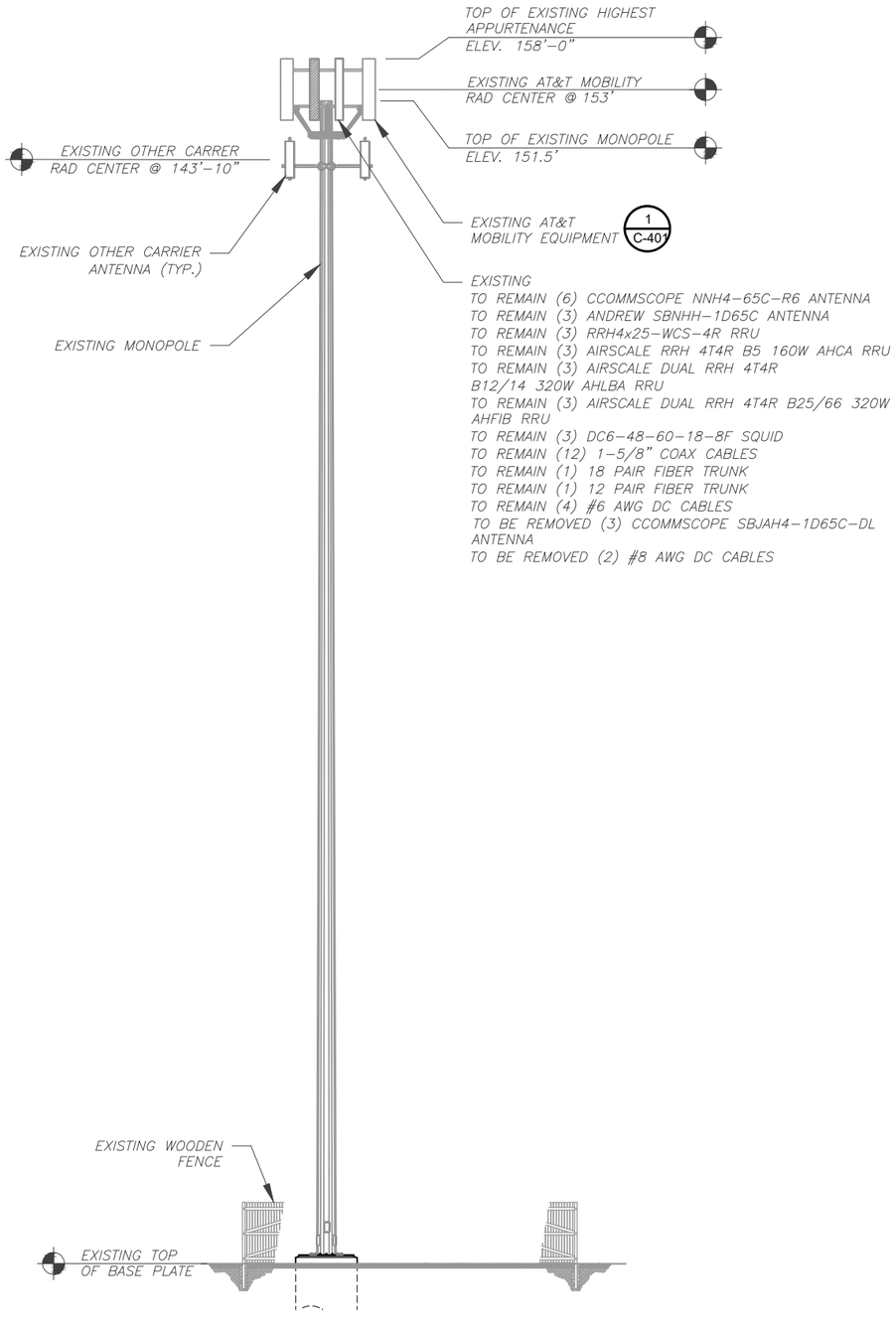
CUSTOMER NAME:	MROWP052577

DETAILED EQUIPMENT LAYOUT

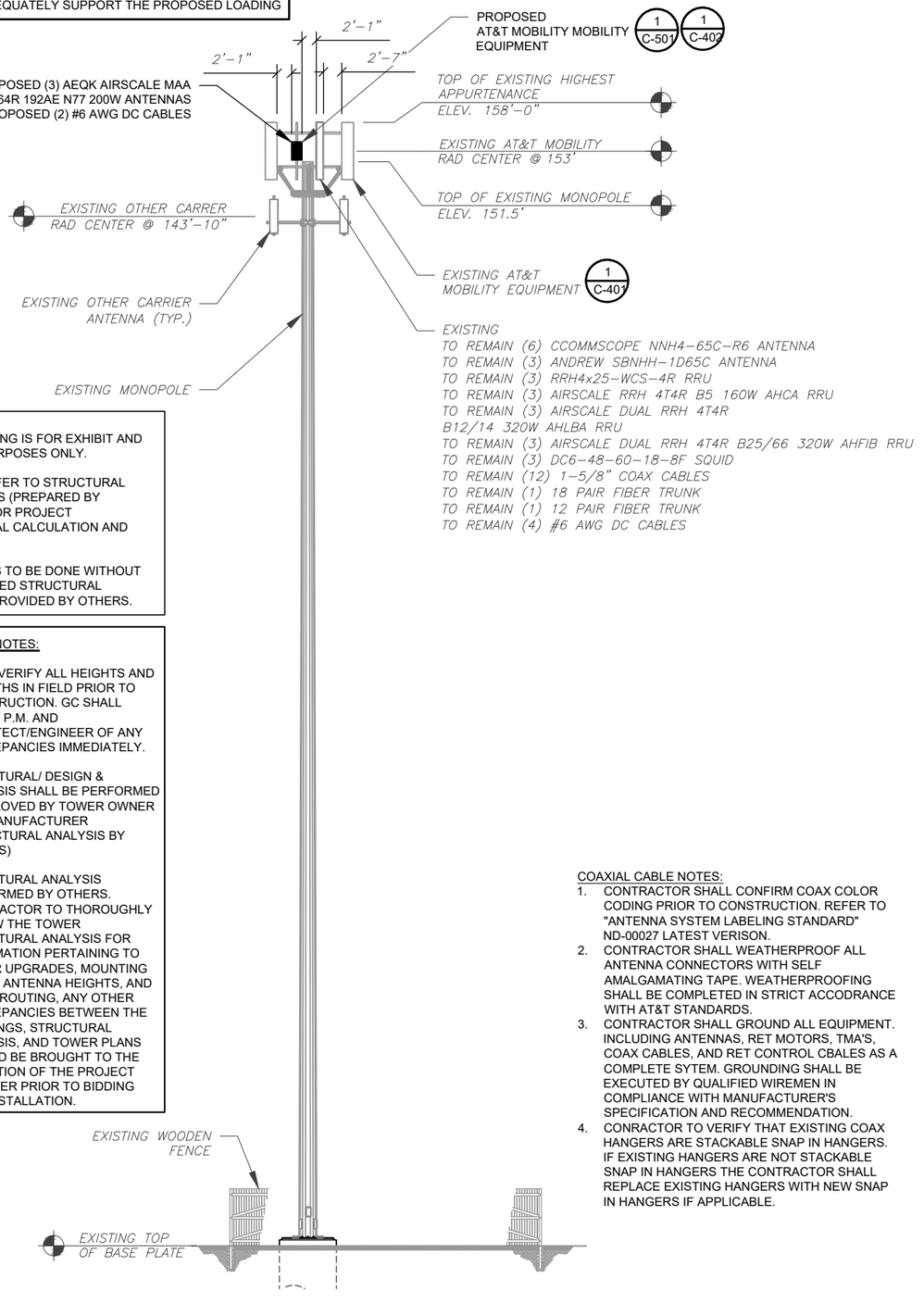
SHEET NUMBER:	REVISION:
C-102	0

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



1 EXISTING TOWER ELEVATION
SCALE: NOT TO SCALE

PER MOUNT ANALYSIS COMPLETED BY POD, DATED 06/02/2021, THE EXISTING MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING



2 FINAL TOWER ELEVATION
SCALE: NOT TO SCALE

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.

SPECIAL NOTES:

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

COAXIAL CABLE NOTES:

1. CONTRACTOR SHALL CONFIRM COAX COLOR CODING PRIOR TO CONSTRUCTION. REFER TO "ANTENNA SYSTEM LABELING STANDARD" ND-00027 LATEST VERISON.
2. CONTRACTOR SHALL WEATHERPROOF ALL ANTENNA CONNECTORS WITH SELF AMALGAMATING TAPE. WEATHERPROOFING SHALL BE COMPLETED IN STRICT ACCODRANCE WITH AT&T STANDARDS.
3. CONTRACTOR SHALL GROUND ALL EQUIPMENT. INCLUDING ANTENNAS, RET MOTORS, TMA'S, COAX CABLES, AND RET CONTROL CBALES AS A COMPLETE SYTEM. GROUNDING SHALL BE EXECUTED BY QUALIFIED WIREMEN IN COMPLIANCE WITH MANUFACTURER'S SPECIFICATION AND RECOMMENDATION.
4. CONRACTOR 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.

AMERICAN TOWER®

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

REV.	DESCRIPTION	BY	DATE
A	PRELIM	RC	04/09/21
0	FINAL CD	RC	06/25/21

ATC SITE NUMBER:
307538
ATC SITE NAME:
DUBLIN OH
AT&T MOBILITY SITE NAME:
DUBLIN
SITE ADDRESS:
5780 SHIER-RINGS ROAD
DUBLIN, OH 43017

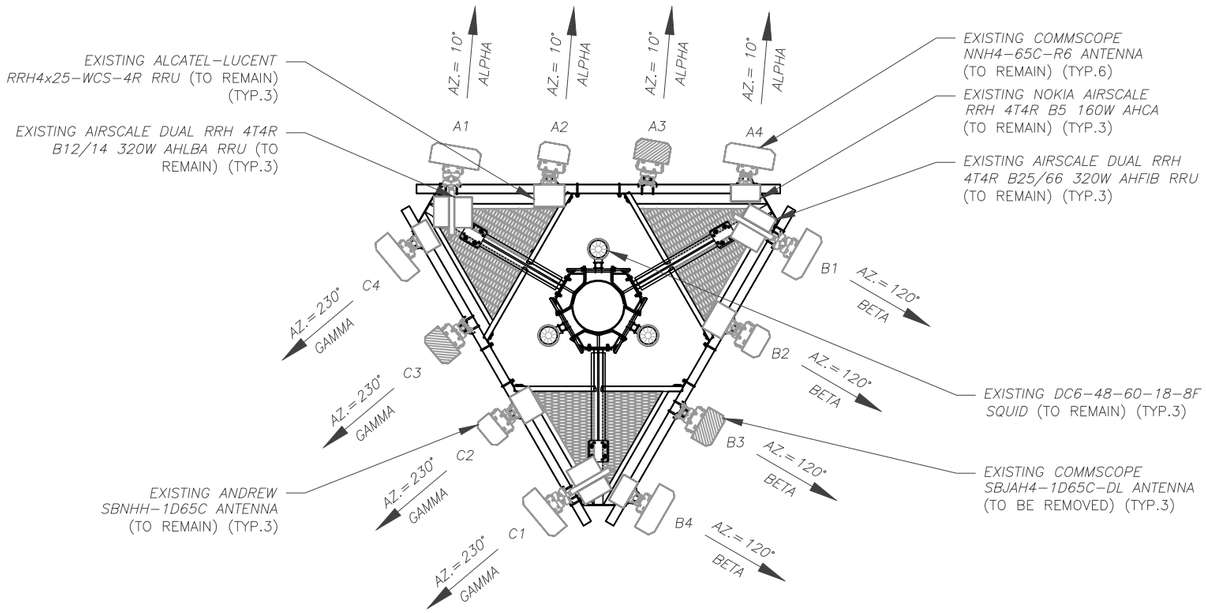
SEAL:
STATE OF OHIO
PETER P. LICHOMSKI
1416266
REGISTERED ARCHITECT
NAME: PETER LICHOMSKI
LICENSE NO: 1416266
EXP DATE: 12/31/2021

AT&T

DATE DRAWN:	04/06/21
ATC JOB NO:	13619927
CUSTOMER ID:	OHL03059
CUSTOMER NAME:	MROWP052577

TOWER ELEVATION

SHEET NUMBER:	REVISION:
C-201	0



1 CURRENT ANTENNA PLAN

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

NOTES

1. BASED ON APPROVED ATC APPLICATION 13619927, 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. CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.
3. THE ANTENNA ORIENTATION PLAN IS A SCHEMATIC. ATC DID NOT CONFIRM EXISTING SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO, ANTENNA AZIMUTHS, MOUNT CONFIGURATIONS AND TOWER ORIENTATION. SCALES SHOWN ARE FOR REFERENCE ONLY AND EXISTING DIMENSIONS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO INSTALLATION AND NOTIFY ATC OF ANY DISCREPANCIES.
4. CONTRACTOR TO ENSURE PROPER SEPARATION IN ACCORDANCE WITH AT&T'S FIRSTNET REQUIREMENTS (SEE SHEET R-607)

EXISTING ANTENNA SCHEDULE

LOCATION			ANTENNA SUMMARY				NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	153'	10°	A1	COMMSCOPE NNH4-65C-R6	LTE 700/LTE PCS/5G PCS/LTE AWS/5G AWS	RMN	–	RMN
							AIRSCALE RRH 4T4R B12/14 320W AHLBA	RMN
							AIRSCALE RRH 4T4R B25/66 320W AHFIB	RMN
			A2	ANDREW SBNHH-1D65C	LTE WCS	RMN	RRH4X25-WCS-4R	RMN
			A3	COMMSCOPE SBJAH4-1D65C-DL	UMTS 850	RMV	-	RMN
			A4	COMMSCOPE NNH4-65C-R6	5G 850	RMN	AIRSCALE RRH 4T4R B5 160W AHCA	RMN
BETA	153'	120°	B1	COMMSCOPE NNH4-65C-R6	LTE 700/LTE PCS/5G PCS/LTE AWS/5G AWS	RMN	–	RMN
							AIRSCALE RRH 4T4R B12/14 320W AHLBA	RMN
							AIRSCALE RRH 4T4R B25/66 320W AHFIB	RMN
			B2	ANDREW SBNHH-1D65C	LTE WCS	RMN	RRH4X25-WCS-4R	RMN
			B3	COMMSCOPE SBJAH4-1D65C-DL	UMTS 850	RMV	-	RMN
			B4	COMMSCOPE NNH4-65C-R6	5G 850	RMN	AIRSCALE RRH 4T4R B5 160W AHCA	RMN
GAMMA	153'	230°	C1	COMMSCOPE NNH4-65C-R6	LTE 700/LTE PCS/5G PCS/LTE AWS/5G AWS	RMN	–	RMN
							AIRSCALE RRH 4T4R B12/14 320W AHLBA	RMN
							AIRSCALE RRH 4T4R B25/66 320W AHFIB	RMN
			C2	ANDREW SBNHH-1D65C	LTE WCS	RMN	RRH4X25-WCS-4R	RMN
			C3	COMMSCOPE SBJAH4-1D65C-DL	UMTS 850	RMV	-	RMN
			C4	COMMSCOPE NNH4-65C-R6	5G 850	RMN	AIRSCALE RRH 4T4R B5 160W AHCA	RMN

EXISTING FIBER DISTRIBUTION/OVP BOX		EXISTING CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
(3) DC6-48-60-18-8F	RMN	(12) 1-5/8"	(1) 18 PAIR FIBER TRUNK	RMN
–	–	–	(1) 12 PAIR FIBER TRUNK	RMN
–	–	–	(4) #6 AWG DC CABLES	RMN
–	–	–	(2) #8 AWG DC CABLES	RMV

CABLE LENGTHS FOR JUMPERS

SQUID TO RRU: 15'
RRU TO ANTENNA: 10'

STATUS ABBREVIATIONS
RMV: TO BE REMOVED
RMN: TO REMAIN
REL: TO BE RELOCATED
ADD: TO BE ADDED

2 EQUIPMENT SCHEDULES

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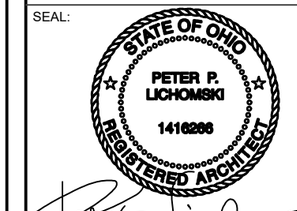
Wixom, Michigan 48393
PHONE: (248) 705-9212

REV.	DESCRIPTION	BY	DATE
A	PRELIM	RC	04/09/21
0	FINAL CD	RC	06/25/21

ATC SITE NUMBER:
307538
ATC SITE NAME:
DUBLIN OH
AT&T MOBILITY SITE NAME:
DUBLIN
SITE ADDRESS:
5780 SHIER-RINGS ROAD
DUBLIN, OH 43017

SEAL:



NAME: PETER LICHOMSKI
LICENSE NO: 1416266
EXP DATE: 12/31/2021

AT&T

DATE DRAWN:	04/06/21
ATC JOB NO:	13619927
CUSTOMER ID:	OHL03059
CUSTOMER NAME:	MROWP052577

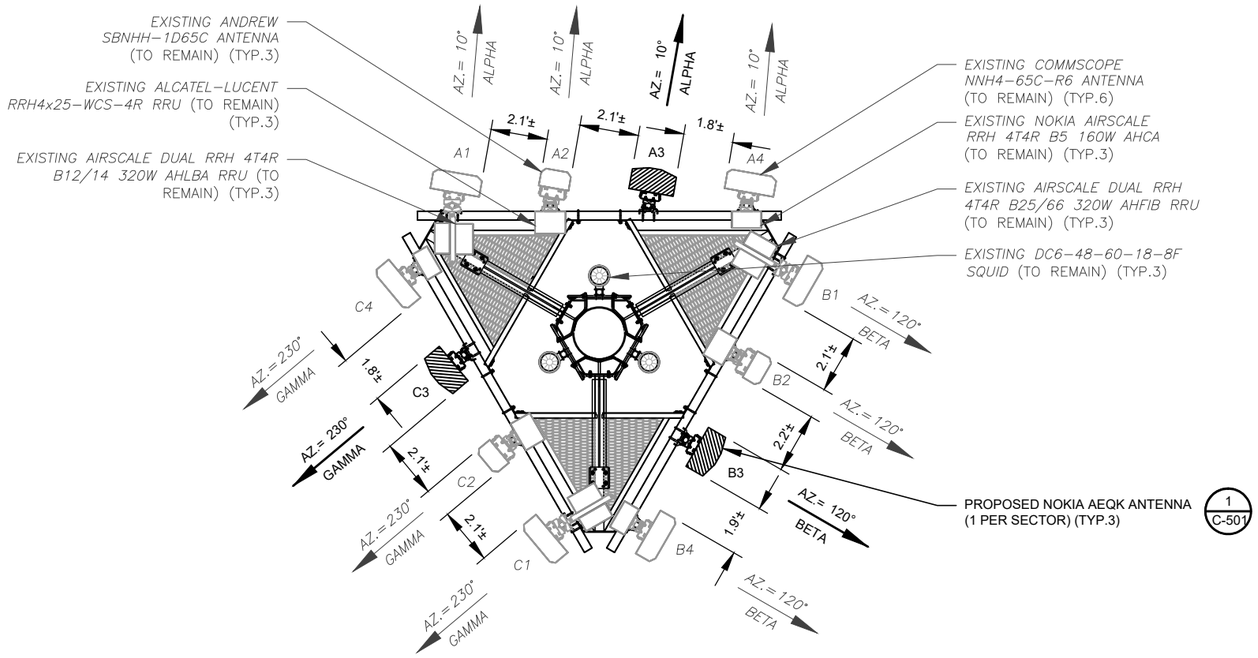
CURRENT ANTENNA PLAN AND EXISTING ANTENNA SCHEDULE

SHEET NUMBER:	REVISION:
C-401	0

PER MOUNT ANALYSIS COMPLETED BY POD, DATED 06/02/2021, THE EXISTING MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING

PROPOSED RRUs MUST BE INSTALLED A MINIMUM OF 8" AWAY FROM FIRSTNET ANTENNAS

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



1 FINAL ANTENNA PLAN

NOTES

1. BASED ON APPROVED ATC APPLICATION 13619927, 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. CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.
3. THE ANTENNA ORIENTATION PLAN IS A SCHEMATIC. ATC DID NOT CONFIRM EXISTING SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO, ANTENNA AZIMUTHS, MOUNT CONFIGURATIONS AND TOWER ORIENTATION. SCALES SHOWN ARE FOR REFERENCE ONLY AND EXISTING DIMENSIONS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO INSTALLATION AND NOTIFY ATC OF ANY DISCREPANCIES.
4. CONTRACTOR TO ENSURE PROPER SEPARATION IN ACCORDANCE WITH AT&T'S FIRSTNET REQUIREMENTS (SEE SHEET R-607)

FINAL ANTENNA SCHEDULE

LOCATION			ANTENNA SUMMARY				NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	153'	10°	A1	COMMSCOPE NNH4-65C-R6	LTE 700/LTE PCS/5G PCS/LTE AWS/5G AWS	RMN	–	RMN
							AIRSCALE RRH 4T4R B12/14 320W AHLBA	RMN
							AIRSCALE RRH 4T4R B25/66 320W AHFIB	RMN
			A2	ANDREW SBNHH-1D65C	LTE WCS	RMN	RRH4X25-WCS-4R	RMN
			A3	NOKIA AEQK	5G	ADD	-	RMN
			A4	COMMSCOPE NNH4-65C-R6	5G 850	RMN	AIRSCALE RRH 4T4R B5 160W AHCA	RMN
BETA	153'	120°	B1	COMMSCOPE NNH4-65C-R6	LTE 700/LTE PCS/5G PCS/LTE AWS/5G AWS	RMN	–	RMN
							AIRSCALE RRH 4T4R B12/14 320W AHLBA	RMN
							AIRSCALE RRH 4T4R B25/66 320W AHFIB	RMN
			B2	ANDREW SBNHH-1D65C	LTE WCS	RMN	RRH4X25-WCS-4R	RMN
			B3	NOKIA AEQK	5G	ADD	-	RMN
			B4	COMMSCOPE NNH4-65C-R6	5G 850	RMN	AIRSCALE RRH 4T4R B5 160W AHCA	RMN
GAMMA	153'	230°	C1	COMMSCOPE NNH4-65C-R6	LTE 700/LTE PCS/5G PCS/LTE AWS/5G AWS	RMN	–	RMN
							AIRSCALE RRH 4T4R B12/14 320W AHLBA	RMN
							AIRSCALE RRH 4T4R B25/66 320W AHFIB	RMN
			C2	ANDREW SBNHH-1D65C	LTE WCS	RMN	RRH4X25-WCS-4R	RMN
			C3	NOKIA AEQK	5G	ADD	-	RMN
			C4	COMMSCOPE NNH4-65C-R6	5G 850	RMN	AIRSCALE RRH 4T4R B5 160W AHCA	RMN

FINAL FIBER DISTRIBUTION/OVP BOX		FINAL CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
(3) DC6-48-60-18-8F	RMN	(12) 1-5/8"	(1) 18 PAIR FIBER TRUNK & (1) 12 PAIR FIBER TRUNK	RMN
–	–	–	(4) #6 AWG DC CABLES	RMN
–	–	–	(2) #6 AWG DC CABLES	ADD

CABLE LENGTHS FOR JUMPERS

SQUID TO RRU: 15'
RRU TO ANTENNA: 10'

STATUS ABBREVIATIONS
RMV: TO BE REMOVED
RMN: TO REMAIN
REL: TO BE RELOCATED
ADD: TO BE ADDED

2 EQUIPMENT SCHEDULES

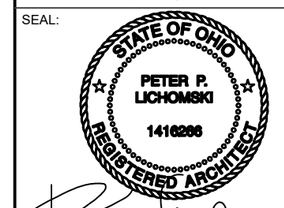
AMERICAN TOWER®

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

REV.	DESCRIPTION	BY	DATE
A	PRELIM	RC	04/09/21
0	FINAL CD	RC	06/25/21

ATC SITE NUMBER:
307538
ATC SITE NAME:
DUBLIN OH
AT&T MOBILITY SITE NAME:
DUBLIN
SITE ADDRESS:
5780 SHIER-RINGS ROAD
DUBLIN, OH 43017

SEAL:



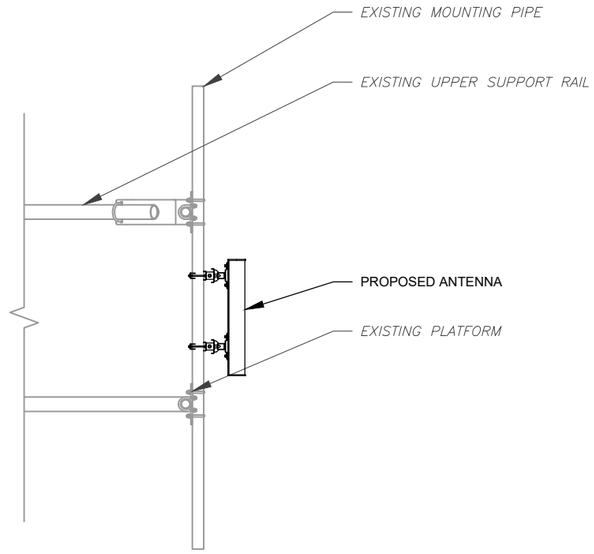
NAME: PETER LICHOMSKI
LICENSE NO: 1416266
EXP DATE: 12/31/2021

AT&T

DATE DRAWN:	04/06/21
ATC JOB NO:	13619927
CUSTOMER ID:	OHL03059
CUSTOMER NAME:	MROWP052577

PROPOSED ANTENNA PLAN AND FINAL ANTENNA SCHEDULE

SHEET NUMBER:	REVISION:
C-402	0



1 ANTENNA DETAIL
SCALE: N.T.S.

AMERICAN TOWER®

LAB

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

REV.	DESCRIPTION	BY	DATE
A	PRELIM	RC	04/09/21
0	FINAL CD	RC	06/25/21

ATC SITE NUMBER:
307538
ATC SITE NAME:
DUBLIN OH
AT&T MOBILITY SITE NAME:
DUBLIN
SITE ADDRESS:
5780 SHIER-RINGS ROAD
DUBLIN, OH 43017

SEAL:

STATE OF OHIO
PETER P. LICHOMSKI
1416266
REGISTERED ARCHITECT

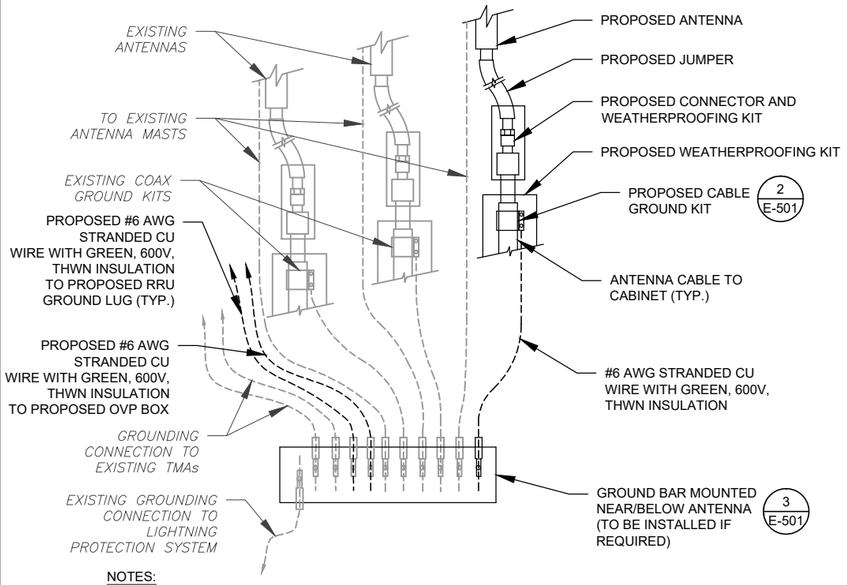
NAME: PETER LICHOMSKI
LICENSE NO: 1416266
EXP DATE: 12/31/2021

AT&T

DATE DRAWN:	04/06/21
ATC JOB NO:	13619927
CUSTOMER ID:	OHL03059
CUSTOMER NAME:	MROWP052577

CONSTRUCTION DETAILS

SHEET NUMBER:	REVISION:
C-501	0

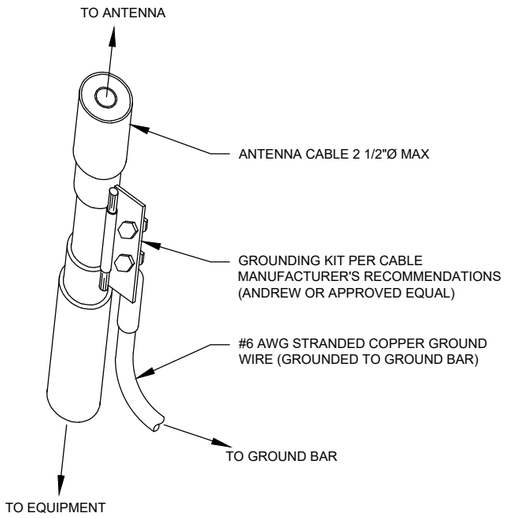


NOTES:

1. 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.
2. 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.

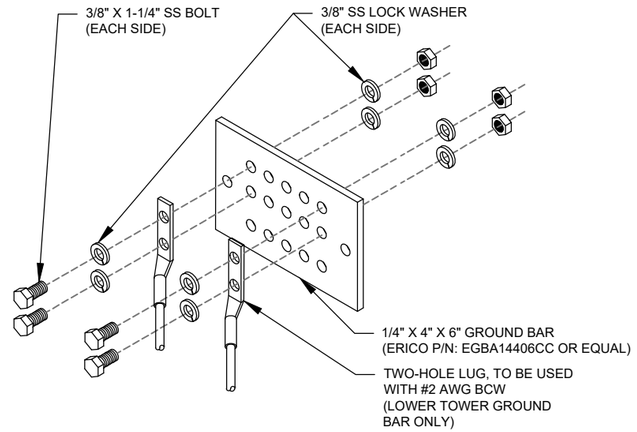


GROUND KIT NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. 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.

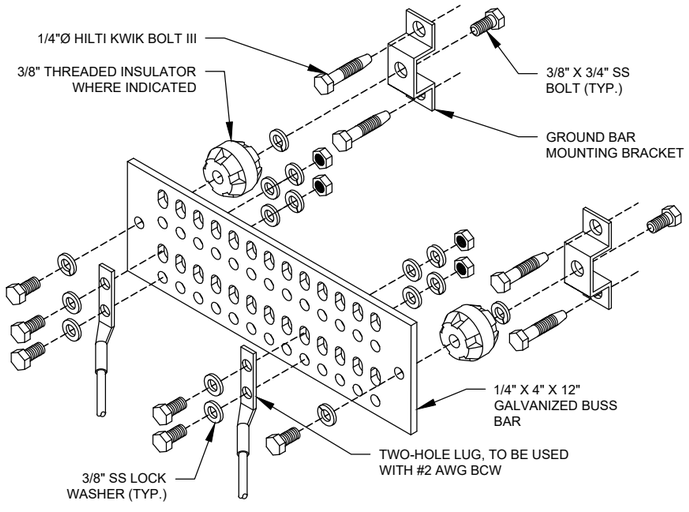


GROUND BAR NOTES:

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

3 TOWER GROUND BAR DETAIL

SCALE: N.T.S.

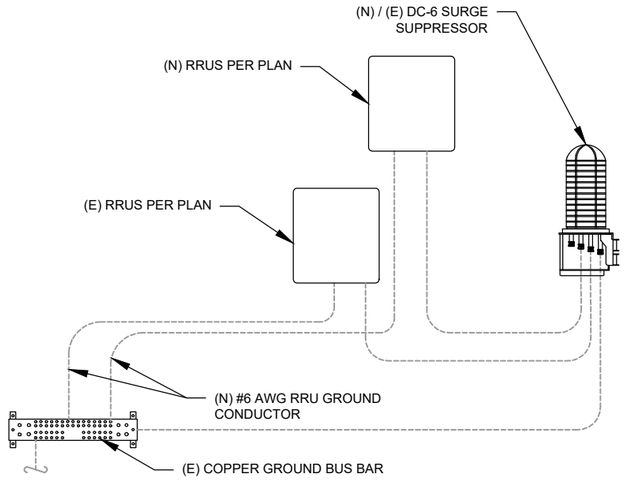


GROUND BAR NOTES

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

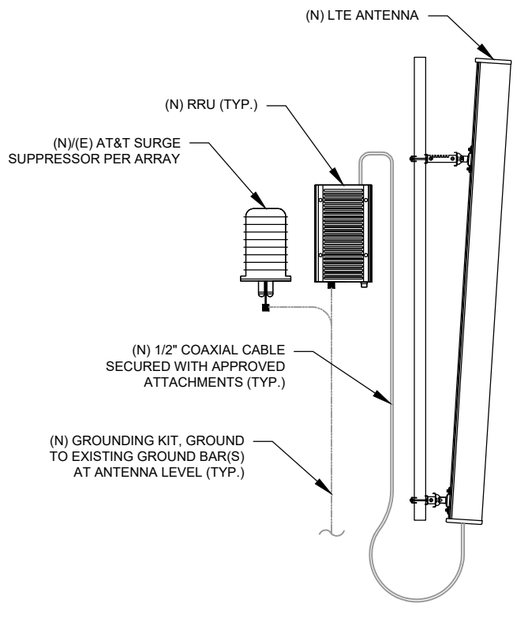
4 MAIN GROUND BAR DETAIL

SCALE: N.T.S.



5 RRU GROUNDING

SCALE: N.T.S.



6 ANTENNA/RRU GROUNDING

SCALE: N.T.S.

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

REV.	DESCRIPTION	BY	DATE
A	PRELIM	RC	04/09/21
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ATC SITE NUMBER:
307538
ATC SITE NAME:
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AT&T MOBILITY SITE NAME:
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5780 SHIER-RINGS ROAD
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SEAL:

STATE OF OHIO
PETER P. LICHOMSKI
1416266
REGISTERED ARCHITECT

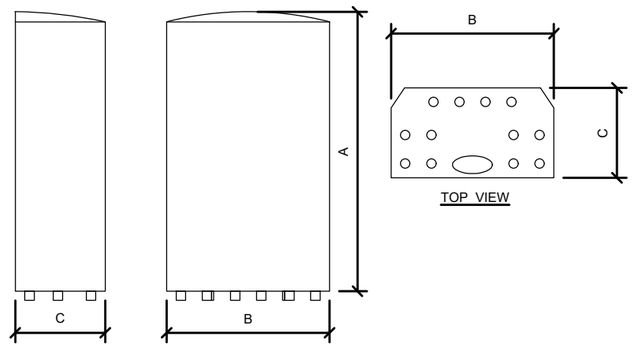
NAME: PETER LICHOMSKI
LICENSE NO: 1416266
EXP DATE: 12/31/2021

AT&T

DATE DRAWN:	04/06/21
ATC JOB NO:	13619927
CUSTOMER ID:	OHL03059
CUSTOMER NAME:	MROWP052577

GROUNDING DETAILS

SHEET NUMBER: E-501
REVISION: 0



ANTENNA SPECIFICATIONS				
ANTENNA MODEL	A	B	C	WEIGHT (LBS)
AEQK	29.5"	17.2"	9.5"	99.2

1 EQUIPMENT MANUFACTURER DETAIL - FOR REFERENCE ONLY

SCALE: NOT TO SCALE

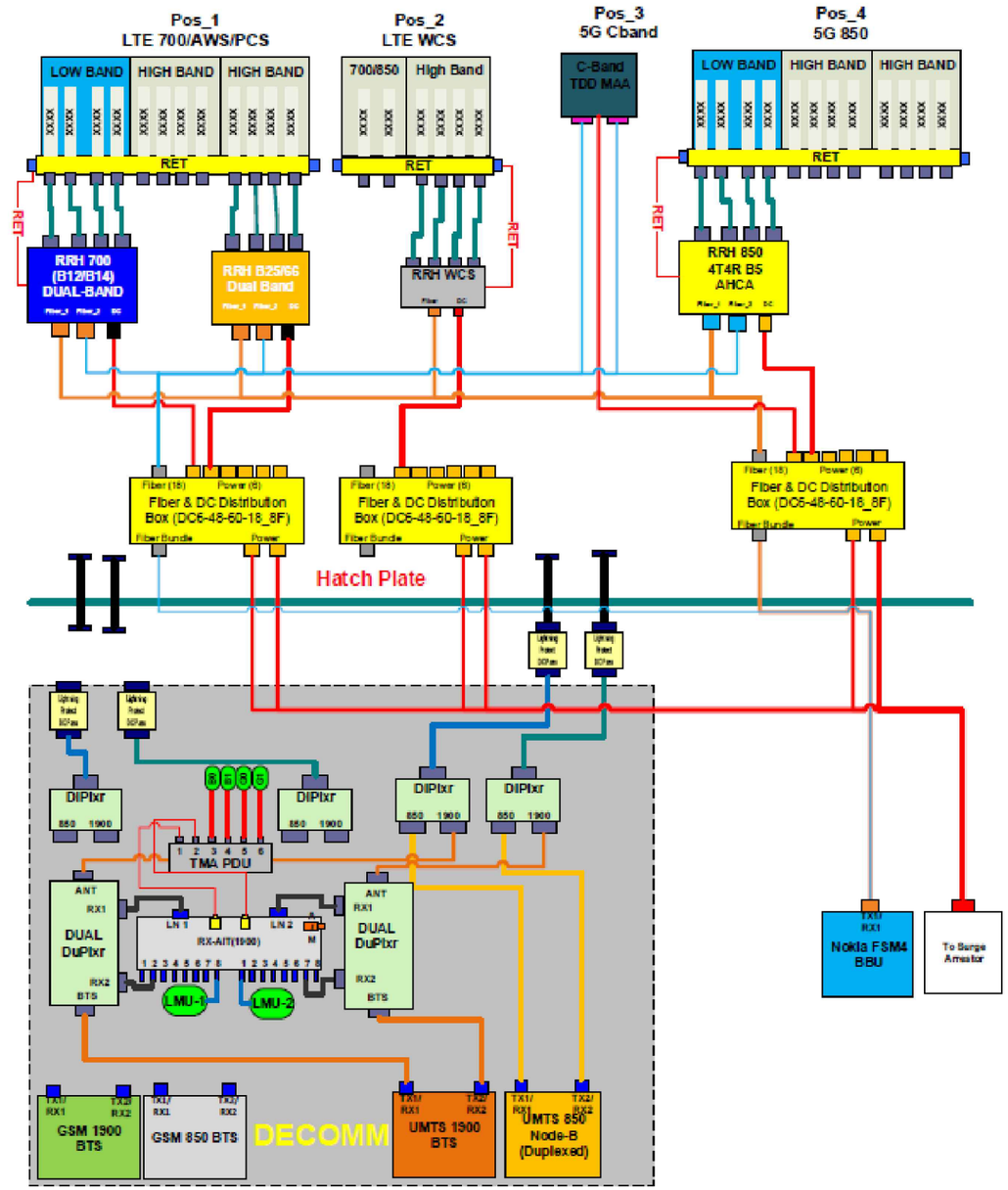
SUPPLEMENTAL

SHEET NUMBER: R-601

REVISION: 0

Diagram - Sector	A	Diagram File Name - 3059_Cband_ABC_V1.vsd					
Atoll Site Name -	OH3059	Location Name -	DUBLIN	Market -	SOUTHERN OH	Market Cluster -	OHIO/WESTERN PENNSYLVANIA
Comments:							

IMPORTANT NOTE: For detailed radio to antenna wiring refer to the latest 4T4R Antenna/Radio Port Connections Field Notice (RF-HW-2016-234) and the 4T Wiring Playbook



1 PLUMBING DIAGRAM

SCALE: N.T.S.

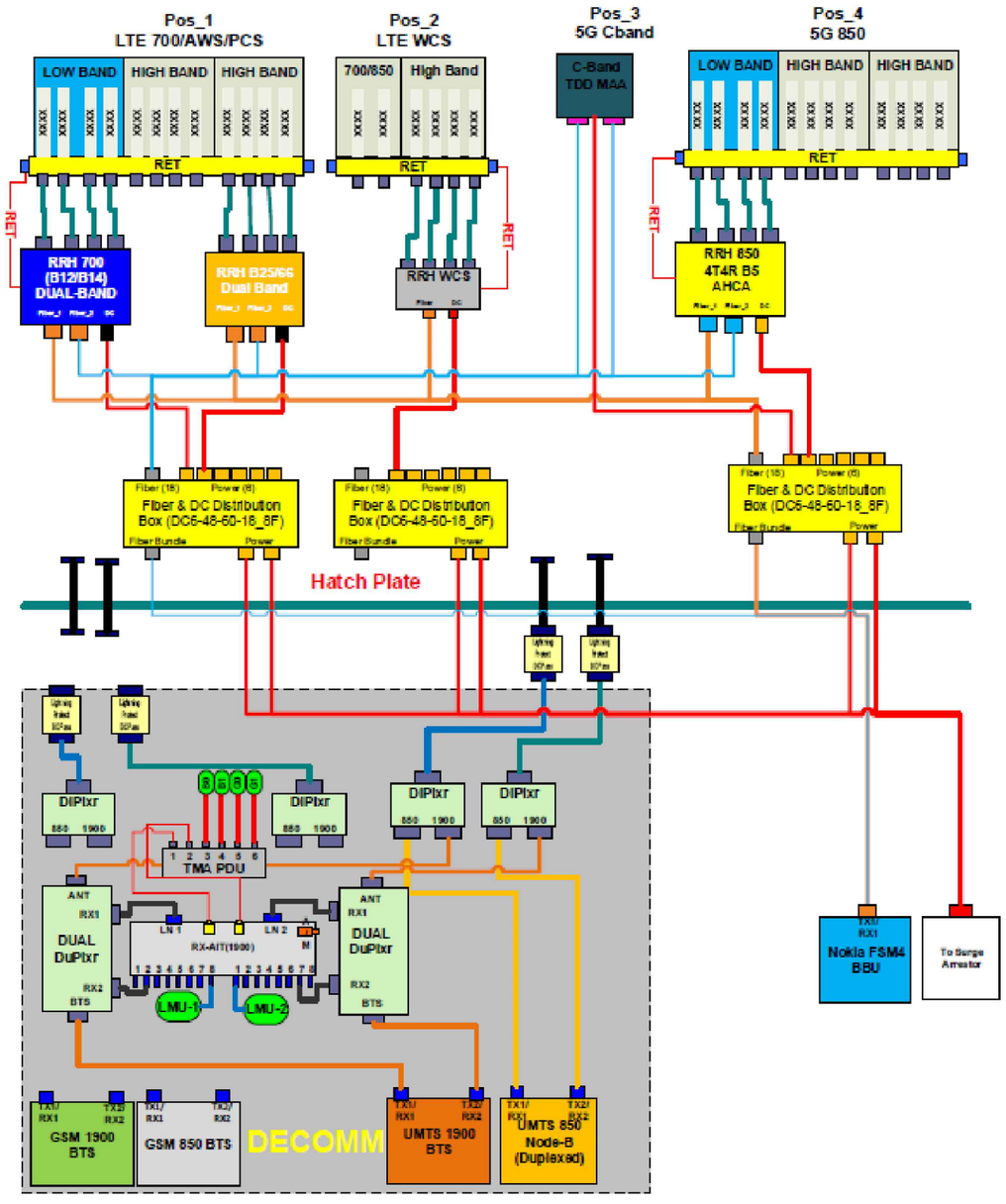
NOTE: THIS SHEET CREATED BY OTHERS AND PROVIDED BY REQUEST OF CUSTOMER WITHOUT EDIT.

SUPPLEMENTAL

SHEET NUMBER:	REVISION:
R-602	0

Diagram - Sector	B	Diagram File Name - 3059_Cband_ABC_V1.vsd					
Aloll Site Name -	OH3059	Location Name -	DUBLIN	Market -	SOUTHERN OH	Market Cluster -	OHIO/WESTERN PENNSYLVANIA
Comments:							

IMPORTANT NOTE: For detailed radio to antenna wiring refer to the latest 4T4R Antenna/Radio Port Connections Field Notice (RF-HW-2016-234) and the 4T Wiring Playbook



1 PLUMBING DIAGRAM

SCALE: N.T.S.

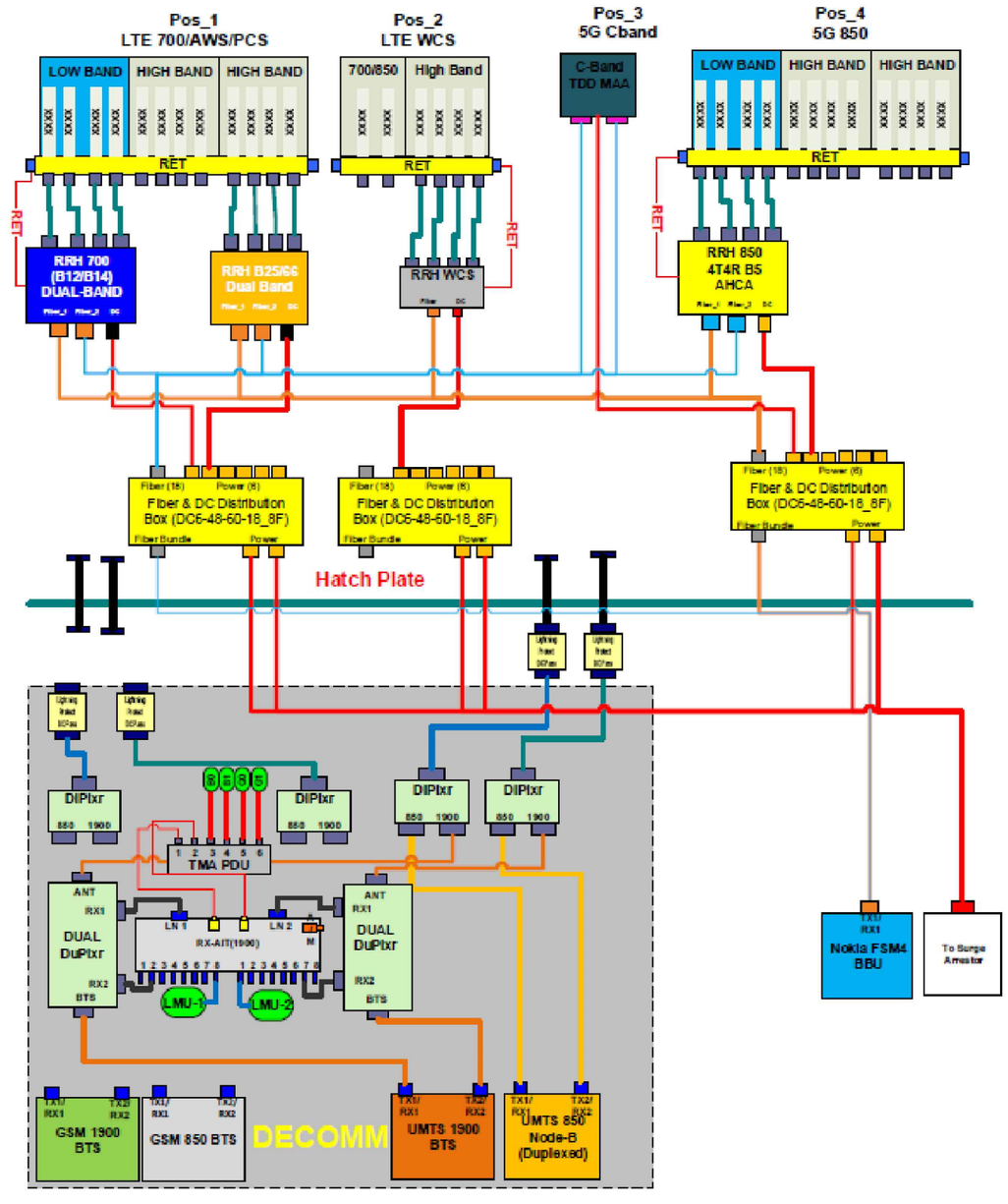
NOTE: THIS SHEET CREATED BY OTHERS AND PROVIDED BY REQUEST OF CUSTOMER WITHOUT EDIT.

SUPPLEMENTAL

SHEET NUMBER:	REVISION:
R-603	0

Diagram - Sector	C	Diagram File Name - 3059_Cband_ABC_V1.vsd					
Atoll Site Name -	OH3059	Location Name -	DUBLIN	Market -	SOUTHERN OH	Market Cluster -	OHIO/WESTERN PENNSYLVANIA
Comments:							

IMPORTANT NOTE: For detailed radio to antenna wiring refer to the latest 4T4R Antenna/Radio Port Connections Field Notice (RF-HW-2016-234) and the 4T Wiring Playbook



1 PLUMBING DIAGRAM

SCALE: N.T.S.

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

SUPPLEMENTAL

SHEET NUMBER:	REVISION:
R-604	0

AMERICAN TOWER®
CORPORATION

This report was prepared for American Tower Corporation by

POD
POWER OF DESIGN

Antenna Mount Analysis Report

ATC Site Name	:	**Dublin OH**
ATC Site Number	:	**307538**
Engineering Number	:	**13619927_C8_01**
Mount Elevation	:	**152.5 ft**
Carrier	:	**AT&T MOBILITY**
Carrier Site Name	:	**MROWP052577**
Carrier Site Number	:	**OHL03059**
Site Location	:	**5580 Shier Rings Rd** **Dublin, OH 43016** **40.097000,-83.140200**
County	:	**Franklin**
Date	:	**June 2, 2021**
Max Usage	:	**88%**
Result	:	**Pass**

Prepared By: Dario Pelemis
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Introduction

The purpose of this report is to summarize results of the antenna mount analysis performed for T-Mobile at 153 ft.

Supporting Documents

Spec. Sheet	Spec Sheet for SitePro1 RMQP-496-HK
Structural Analysis	ATC Engineering #OAA749908_C3_01, dated July 25, 2019
RFDS	RFDS dated March 20, 2021
Photos	Site photos from 2020

Analysis

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

Basic Wind Speed:	108 mph, Vult (3-Second Gust)
Basic Wind Speed w/ Ice:	40 mph (3-Second Gust) w/ 1" Radial Ice (Escalating)
Codes:	TIA-222-H
Structure Class:	II
Exposure Category:	B
Topographic Factor Procedure:	Method
Topographic Feature:	Flat
Crest Height:	0 ft
Spectral Response:	Ss = .122, S_1 = .06
Site Class:	D (assumed)
Live Loads:	Lm = 500 lbs, Lv = 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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1 MOUNT ANALYSIS
SCALE: N.T.S.

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

SUPPLEMENTAL

SHEET NUMBER: R-605
REVISION: 0

Antenna Loading

Mount Centerline (ft)	Antenna Centerline (ft)	Qty	Antenna Model
152.5	153.0	3	Nokia AEQK AirScale MAA 64T64R 192AE n77 200W
		3	Commscope SBNHH-1D65C (66.1lb)
		6	Commscope NNH4-65C-R6 (102.1 lbs)
		3	Raycap DC6-48-60-18-8F ("Squid")*
		3	Nokia AirScale Dual RRH 4T4R B12/14 320W AHLBA w/ cover
		3	Nokia AirScale RRH 4T4R B5 160W AHCA
		3	Alcatel-Lucent RRH4x25-WCS (91lb)
		3	AirScale Dual RRH 4T4R B25/66 320W AHFIB (66.1lbs)

*Equipment assumed to be mounted directly to tower.

Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Plates	88%	Pass
Mount Pipes	57%	Pass
Rails	50%	Pass
Angles	41%	Pass
Faces	18%	Pass
Standoffs	17%	Pass
Supports	16%	Pass
Kickers	14%	Pass

1 MOUNT ANALYSIS
SCALE: N.T.S.

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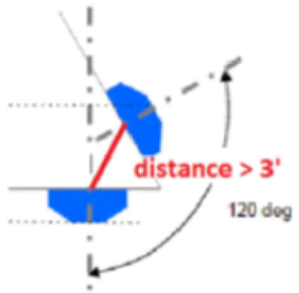
SUPPLEMENTAL

SHEET NUMBER: R-606

REVISION: 0

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

- ❑ Horizontal separation (side to side of antenna): >= 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°.

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SUPPLEMENTAL

SHEET NUMBER:	REVISION:
R-607	0