

PROJECT NARRATIVE: T-MOBILE ANTENNA SITE MODIFICATION

Site:

#286 Water Tower at the Henry A. Wallace Beltsville Agricultural Research Center (BARC) located in Beltsville, Maryland. The BARC property covers over 6,500 acres. Other Federal facilities located adjacent to BARC property include the Patuxent Wildlife Research Center, the Goddard Space Flight Center, and the U.S. Secret Service James T. Rowley Training Center. The cities of College Park and Greenbelt are located south of BARC property.

Background:

This project is being undertaken by T-Mobile in an effort to update their sites within the Washington/Baltimore market.

Proposal:

T-Mobile proposes to modify their antenna site by replacing nine existing antennas with nine new antennas, and replacing three existing remote radio units with six new remote radio units in the same locations on the Water Tower. They also propose to replace an existing equipment cabinet with two new cabinets, and add six lines of hybrid cabling within the existing coaxial.

The new antennas will be painted to blend with the color of the Water Tower to minimize visibility.

The Radio Frequency (RF) Radio Frequency Report prepared by Centerline Communications indicates the antenna site would comply with RF safety requirements.

National Environmental Policy Act (NEPA):

In accordance with the National Environmental Policy Act, BARC has determined that the modifications proposed by T-Mobile are a categorical exclusion under ARS regulations 7 CFR 520.5 (b) (1).

National Historic Preservation Act (NHPA):

On June 7, 2021, the Maryland Historical Trust concurred with the no adverse effect finding regarding this undertaking.

PROJECT INFORMATION

SITE NAME:	USDA - LAUREL
SITE NUMBER:	7WAS039C
SITE ADDRESS:	EDMONSTON ROAD GREENBELT, MARYLAND 20770
COUNTY	PRINCE GEORGE'S COUNTY
ZONING:	R-O-S
LATITUDE:	39.01700000
LONGITUDE:	-76.86086110
TYPE OF SITE:	WATER TANK
STRUCTURE HEIGHT:	152'-2" AGL (TOP OF WATER TANK)
ANTENNA CENTER:	135' AGL
GROUND ELEVATION:	171' (NAVD 88)
BUILDING OWNER NAME:	UNITED STATES OF AMERICA
BUILDING OWNER ADDRESS:	GSA OFFICE COMM PUB BLDG SE 18TH & F STREETS NORTHWEST WASHINGTON DC, 20405-0001
APPLICANT:	T-MOBILE NORTHEAST, LLC. 12050 BALTIMORE AVENUE BELTSVILLE, MARYLAND 20705
APPLICANT PHONE:	(240) 264-8600
APPLICANT FAX:	(240) 264-8610
BUILDING CODES:	2015 NFPA 101 LIFE SAFETY CODE AND SUBTITLE 11 PRINCE GEORGE'S COUNTY FIRE SAFETY CODE 2015 INTERNATIONAL BUILDING CODE AND SUBTITLE 4 PRINCE GEORGE'S COUNTY BUILDING CODE
ELECTRICAL CODE:	2015 INTERNATIONAL EXISTING BUILDING CODE (IEBC) NFPA- 2014 70 NATIONAL ELECTRICAL CODE & SUBTITLE 9 PRINCE GEORGE'S COUNTY BUILDING CODE

PROJECT DIRECTORY

ENGINEERING FIRM:
CENTERLINE COMMUNICATIONS
750 WEST CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHILIP BURTNER (610) 730-5430

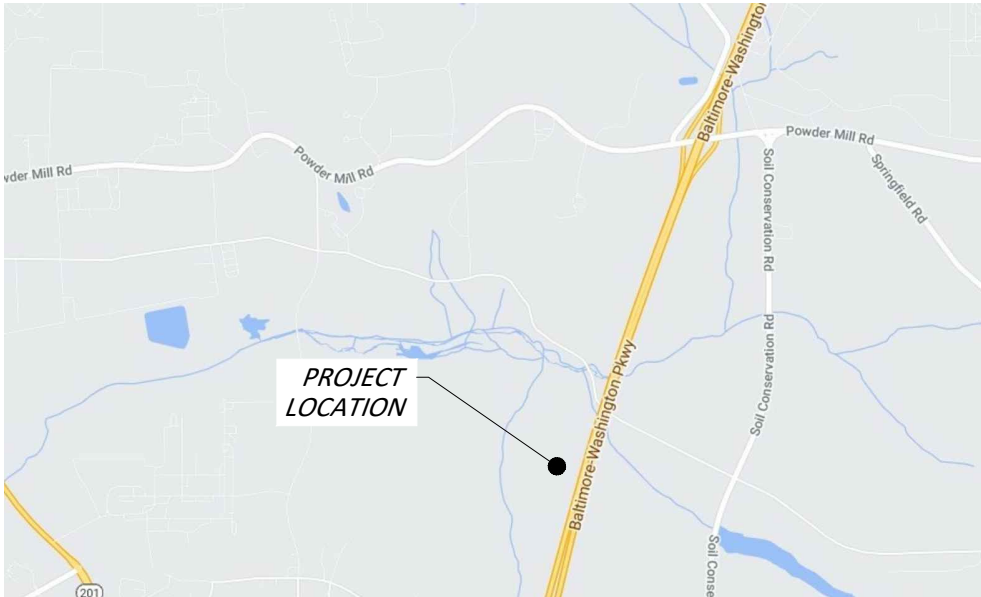
CARRIER:
T-MOBILE NORTHEAST, LLC.
12050 BALTIMORE AVENUE
BELTSVILLE, MARYLAND 20705
PHONE: (240) 264-8600
FAX: (240) 264-8610



Know what's below.
Call before you dig.



T - Mobile
NORTHEAST LLC



VICINITY MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE

SITE NAME: USDA - LAUREL
SITE ID: 7WAS039C
ADDRESS: EDMONSTON ROAD
GREENBELT, MARYLAND 20770

TECHNOLOGY: 67D5A997DB OUTDOOR
MODIFICATION: L600_CMP5_ANCHOR_PHASE 3

GENERAL NOTES

1. THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF T-MOBILE. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSE OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.
2. THE FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY ACCESSED BY TRAINED TECHNICIANS FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE DOES NOT REQUIRE ANY WATER OR SANITARY SEWER SERVICE. THE FACILITY IS NOT GOVERNED BY REGULATIONS REQUIRING PUBLIC ACCESS PER ADA REQUIREMENTS.
3. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE T-MOBILE REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

SCOPE OF WORK

1. REMOVE AND REPLACE NINE EXISTING ANTENNAS W/NINE NEW ANTENNAS
2. REMOVE AND REPLACE THREE EXISTING RRU's W/SIX NEW RRU's
3. INSTALL ONE NEW 6160 AC ENCLOSURE
4. INSTALL ONE NEW B160 BATTERY ENCLOSURE
5. INSTALL SIX NEW 6X24 HYBRID CABLES
6. REMOVE ALL UNUSED CABLES AND EQUIPMENT

DRAWING INDEX

NO.	DESCRIPTION
T-1	TITLE SHEET
GN-1	GENERAL NOTES, RF NOTES, CABLING NOTES
A-1	SITE PLAN
A-2	COMPOUND PLAN
A-3	EQUIPMENT LAYOUT PLANS
A-4	SOUTH ELEVATION
A-5	ANTENNA PLANS & SCHEDULE
A-6	ANTENNA & RRU MOUNTING DETAILS
A-7	EQUIPMENT DETAILS
G-1	GROUNDING DETAILS & ONE LINE DIAGRAM

DRAWING SCALE NOTES:

THESE DRAWINGS ARE FORMATTED TO BE FULL SIZE AT 22"x34". CONTRACTOR SHALL VERIFY ALL PLANS & EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

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NORTHEAST LLC

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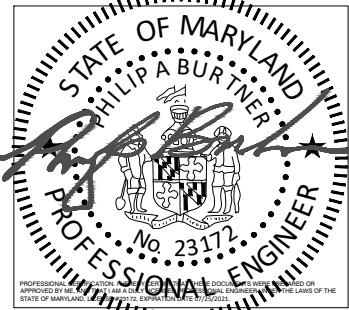


750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

REVISIONS

REV	DATE	DESCRIPTION	BY
1	08/03/21	REVISED RFDS	TA
0	04/14/21	ISSUED FOR PERMIT	RL

DESIGNED BY: RL	APPROVED BY: RC
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DATE: 08/03/21

PHILIP A. BURTNER, P.E.
MARYLAND PROFESSIONAL ENGINEER
LICENSE #23172

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SITE ID: 7WAS039C
SITE ADDRESS: EDMONSTON ROAD GREENBELT, MARYLAND 20770
SHEET TITLE: TITLE SHEET
DRAWING: T-1

RF NOTES

ANTENNA CABLE & SCHEDULING NOTES

GENERAL NOTES

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EDMONSTON ROAD
GREENBELT, MARYLAND 20770

SHEET TITLE:

GENERAL NOTES, RF NOTES, CABLING NOTES

DRAWING:

GN-1

1. ACTUAL LENGTHS SHALL BE DETERMINED PER SITE CONDITION BY SUBCONTRACTOR
2. THE DESIGN IS BASED ON RF DATA SHEETS, SIGNED AND APPROVED.
3. RADIO SIGNAL CABLE AND RACEWAY SHALL COMPLY WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC, NFPA 70), CHAPTER 8.
4. ALL SPECIFIED MATERIAL FOR EACH LOCATION (E.G. OUT DOORS-OCCUPIED INDOORS-UNOCCUPIED, PLENUMS, RISER SHAFTS, ETC.) SHALL BE APPROVED, LISTED, OR LABELED AS REQUIRED BY THE NEC.
5. RADIO SIGNAL CABLE SHALL BE SUPPORTED AT MINIMUM OF EVERY THREE (3) FEET EXCEPT INSIDE MONOPOLES OR MONOPOLES WHERE CABLE AND CONNECTOR MANUFACTURERS SUPPORT RECOMMENDATIONS SHALL BE FOLLOWED. MANUFACTURER RECOMMENDATION CABLES SUPPORT ACCESSORIES SHALL BE USED.
6. THE OUTDOOR CABLE SUPPORT SYSTEM SHALL BE PROVIDED WITH AN ICE SHIELD TO SUPPORT AND PROTECT ANTENNA CABLE RUNS.
7. DRIP LOOPS SHALL BE REQUIRED ON ALL OUTSIDE CABLES. CABLES SHALL BE SLOPED AWAY FROM BUILDING OR OUTDOOR BTS CABINETS TO PREVENT WATER FROM ENTERING THROUGH THE COAXIAL CABLE PORT.
8. ALL FEEDER LINE AND JUMPER CONNECTORS SHALL BE 7/16 DIN CABLE CONNECTORS THAT MEET IP68 STANDARDS.
9. 7/16 DIN CONNECTORS REQUIRE NO ADDITIONAL WEATHER PROOFING IN INDOOR APPLICATIONS IF INSTALLED AND TORQUED PROPERLY. IN OUTDOOR APPLICATIONS WEATHER PROOFING IS REQUIRED AND THE FOLLOWING PROCEDURE SHOULD BE FOLLOWED.
10. USING WEATHERPROOFING KIT APPROVED BY CABLE MANUFACTURER AND CONTRACTOR START TAPE APPROXIMATELY 5 INCHES FROM THE CONNECTOR, AND WRAP 2 INCHES TOWARD THE CONNECTOR, THEN REVERSE THE TAPE SO THAT THE STICKY SIDE IS UP. TAPE OVER THE CONNECTOR OR SURGE ARRESTOR UNTIL THREE (3) TO FOUR (4) INCHES BEYOND THE CONNECTOR AND REVERSE AGAIN WITH THE STICKY SIDE DOWN FOR ANOTHER INCH OR TWO. PASS THE BUTYL RUBBER AND FINISH WITH A FINAL LAYER OF TAPE.
11. ANTENNAS SHALL BE PAINTED, WHEN REQUIRED, BY THE LANDLORD OR AUTHORITY OF HAVING JURISDICTION IN ACCORDANCE WITH ANTENNA MANUFACTURERS' SURFACES PREPARATION AND PAINTING REQUIREMENTS.
12. CABLE SHIELDS AND TOWER CONDUITS SHALL BE GROUNDED AT THE TOP OF THE TOWER WITHIN 10 FEET OF THEIR CONNECTORS, AND AT THE BOTTOM OF THE TOWER ABOUT 6 INCHES BEFORE THEY TURN TOWARD THE FACILITY. THEY SHALL BE GROUNDED AT THE MIDPOINT OF THE TOWERS THAT ARE BETWEEN 60 FEET AND 200 FEET HIGH, AND AT INTERVALS OF 60 FEET OR LESS ON TOWERS THAT ARE HIGHER THAN 200 FEET.

1. SUBCONTRACTOR SHALL VERIFY THE ACTUAL LENGTH IN THE FIELD BEFORE INSTALLATION.
2. TAG AND COLOR CODE ALL MAIN CABLES AT LOCATIONS PER T-MOBILE ANTENNA CABLE MARKING STANDARD:
 - TOP OF TOWER END OF MAIN COAX
 - BOTTOM OF TOWER END OF MAIN COAX
 - DIRECTLY BEFORE AND AFTER RF EQUIPMENT
 - END OF JUMPERS AT BTS EQUIPMENT
3. ANTENNAS SHALL BE PROCURED AND INSTALLED WITH DOWN TILT MOUNTING BRACKETS SUPPLIED BY ANTENNA MANUFACTURER.
4. PRIOR APPROVAL IS REQUIRED BEFORE PERFORMING ANY WORK ON EXISTING CELL SITE EQUIPMENT.

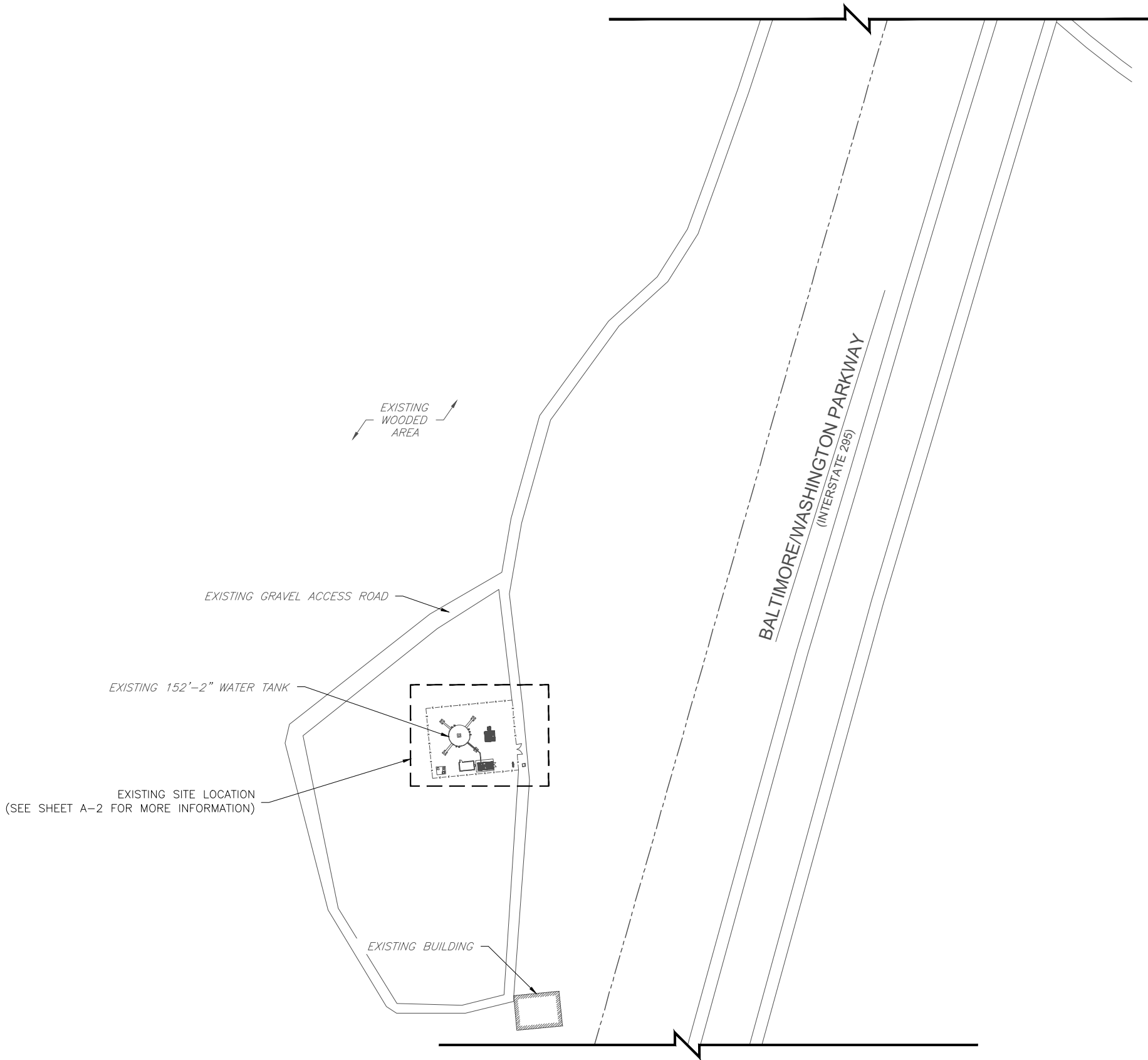
- FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
- CONTRACTOR - CENTERLINE COMMUNICATIONS
SUBCONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION)
OWNER - T-MOBILE MOBILITY
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
4. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
6. "KITTING LIST" SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE SUBCONTRACTOR.
7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
8. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE CONTRACTOR.
9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR.
10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
13. ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.
14. ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL BE AIR-ENTRAINED AND SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.

15. ALL STRUCTURAL STEEL WORK SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS. ALL STRUCTURAL STEEL SHALL BE ASTM A36 ($F_y = 36$ ksi) UNLESS OTHERWISE NOTED. PIPES SHALL BE ASTM A53 TYPE E ($F_y = 36$ ksi). ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED. TOUCHUP ALL SCRATCHES AND OTHER MARKS IN THE FIELD AFTER STEEL IS ERECTED USING A COMPATIBLE ZINC RICH PAINT.
16. CONSTRUCTION SHALL COMPLY WITH SPECIFICATIONS AND "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF T-MOBILE MOBILITY SITES."
17. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
18. THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
19. SINCE THE CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE ADVISED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.
20. APPLICABLE BUILDING CODES:
SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.
- SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:
- AMERICAN CONCRETE INSTITUTE (ACI) 318; BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE;
 - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)
 - MANUAL OF STEEL CONSTRUCTION, ASD, FOURTEENTH EDITION;
 - TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-G, STRUCTURAL STANDARDS FOR STEEL
 - ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES; REFER TO ELECTRICAL DRAWINGS FOR SPECIFIC ELECTRICAL STANDARDS.

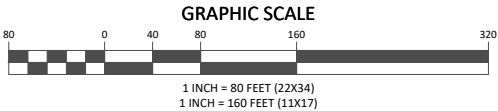
- FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

ABBREVIATIONS

AGL	ABOVE GRADE LEVEL	G.C.	GENERAL CONTRACTOR	RF	RADIO FREQUENCY
AWG	AMERICAN WIRE GAUGE	MG	MASTER GROUND BUS	TBD	TO BE DETERMINED
BCW	BARE COPPER WIRE	MIN	MINIMUM	TBR	TO BE REMOVED
BTS	BASE TRANSCEIVER STATION	PROPOSED	NEW	TBRR	TO BE REMOVED & REPLACED
EXISTING	EXISTING	N.T.S.	NOT TO SCALE	TYP	TYPICAL
EG	EQUIPMENT GROUND	REF	REFERENCE		
EGR	EQUIPMENT GROUND RING	REQ	REQUIRED		



1 SITE PLAN
A-1
SCALE: 1" = 80' (22X34)
SCALE: 1" = 160' (11X17)



NOTES

1. CONTRACTOR SHALL MAKE A UTILITY "ONE CALL" TO LOCATE ALL UTILITIES PRIOR TO EXCAVATING.
2. CONSTRUCTION TO COMMENCE UPON COMPLETION OF A PASSING STRUCTURAL ANALYSIS. STRUCTURAL ANALYSIS TO BE PERFORMED BY CENTERLINE COMMUNICATIONS.
3. REFERENCE STRUCTURAL ANALYSIS BY CENTERLINE COMMUNICATIONS FOR FURTHER INFORMATION REGARDING THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THIS EQUIPMENT UPGRADE.
4. REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA MODELS AND SETTINGS.

SEC. 27-445.04. ANTENNAS, MONOPOLES, AND RELATED EQUIPMENT BUILDINGS FOR WIRELESS TELECOMMUNICATIONS (RESIDENTIAL).

(A) ANTENNAS, MONOPOLES, AND RELATED EQUIPMENT BUILDINGS PERMITTED (P) IN THE TABLE OF USES SHALL BE SUBJECT TO THE FOLLOWING REQUIREMENTS:
(1) THE ANTENNA SHALL COMPLY WITH THE FOLLOWING STANDARDS:
(A) UNLESS OTHERWISE PROHIBITED BELOW, IT SHALL BE CONCEALED WITHIN THE OPAQUE EXTERIOR OF A STRUCTURE OR BE ATTACHED TO A PUBLIC UTILITY, RADIO, TELEVISION, OR TELECOMMUNICATIONS BROADCASTING TOWER/MONOPOLE; A LIGHT POLE; A MULTIFAMILY DWELLING AT LEAST FIVE (5) STORIES IN HEIGHT; A STRUCTURE OWNED BY A MUNICIPALITY, THE BOARD OF EDUCATION FOR PRINCE GEORGE'S COUNTY, OR BY PRINCE GEORGE'S COUNTY; OR A STRUCTURE OWNED AND PRIMARILY USED BY A GOVERNMENT AGENCY THAT IS EXEMPT FROM THE REQUIREMENTS OF THIS SUBTITLE;
(B) IT SHALL NOT EXTEND MORE THAN FIFTEEN (15) FEET ABOVE THE HEIGHT OF THE TOWER OR STRUCTURE TO WHICH IT IS ATTACHED;
(C) IT SHALL NOT EXCEED THE FOLLOWING DIMENSIONS:
(i) TWENTY (20) FEET IN LENGTH AND SEVEN (7) INCHES IN DIAMETER FOR WHIPS;
(ii) TEN (10) FEET IN LENGTH AND TWO (2) FEET IN WIDTH FOR PANELS;
(iii) SEVEN (7) FEET IN LENGTH AND ONE (1) FOOT IN DIAMETER FOR CYLINDERS;

OR
(IV) SEVEN (7) FEET IN DIAMETER FOR PARABOLIC DISHES; AND
(D) ON PRIVATELY OWNED LAND, IT SHALL NOT SUPPORT LIGHTS OR SIGNS UNLESS REQUIRED FOR AIRCRAFT WARNING OR OTHER SAFETY REASONS.

(2) THE RELATED TELECOMMUNICATIONS EQUIPMENT BUILDING OR ENCLOSURE SHALL COMPLY WITH THE FOLLOWING STANDARDS:
(A) IT SHALL NOT EXCEED FIVE HUNDRED SIXTY (560) SQUARE FEET OF GROSS FLOOR AREA OR TWELVE (12) FEET IN HEIGHT;

(B) THE BUILDING OR ENCLOSURE SHALL BE SCREENED BY MEANS OF LANDSCAPING OR BERMING TO ONE HUNDRED PERCENT (100%) OPACITY FROM ANY ADJOINING LAND IN A RESIDENTIAL ZONE (OR LAND PROPOSED TO BE USED FOR RESIDENTIAL PURPOSES ON AN APPROVED BASIC PLAN FOR A COMPREHENSIVE DESIGN ZONE, OR ANY APPROVED CONCEPTUAL OR DETAILED SITE PLAN);
(C) WHEN ATTACHED TO AN EXISTING BUILDING, IT SHALL MATCH THE CONSTRUCTION MATERIAL AND COLOR(S) OF THAT BUILDING;

(D) WHEN CONSTRUCTED AS A FREESTANDING BUILDING, IT SHALL BE CONSTRUCTED OF BRICK AND ITS DESIGN SHALL COORDINATE WITH THE DESIGN OF ANY EXISTING MAIN BUILDING ON THE SAME LOT OR ON AN ADJOINING LOT; AND
(E) THE BUILDING OR ENCLOSURE SHALL BE UNMANNED, WITH INFREQUENT (FOUR (4) OR FEWER PER YEAR) VISITS BY MAINTENANCE PERSONNEL, AND WITH ACCESS AND PARKING FOR NO MORE THAN ONE (1) VEHICLE.

(3) THE MONOPOLE SHALL COMPLY WITH THE FOLLOWING STANDARDS:
(A) THE MAXIMUM HEIGHT SHALL BE ONE HUNDRED NINETY-NINE (199) FEET WHEN LOCATED ON PUBLIC PROPERTY OR ONE HUNDRED (100) FEET WHEN LOCATED ON ALL OTHER PROPERTIES;

(B) FOR PRIVATELY OWNED LAND, THE MINIMUM SETBACK FROM ALL ADJOINING LAND AND DWELLING UNITS SHALL BE EQUAL TO THE HEIGHT OF THE STRUCTURE MEASURED FROM ITS BASE; FOR PUBLICLY OWNED LAND, THE MINIMUM SETBACK SHALL BE ONE-HALF (1/2) OF THE HEIGHT OF THE STRUCTURE MEASURED FROM THE BASE TO THE ADJOINING PROPERTY LINES;

(C) ON PRIVATELY OWNED LAND, THE STRUCTURE SHALL NOT SUPPORT LIGHTS OR SIGNS UNLESS REQUIRED FOR AIRCRAFT WARNING OR OTHER SAFETY REASONS;
(D) THE STRUCTURE SHALL BE DESIGNED, GALVANIZED, AND/OR PAINTED IN A MANNER WHICH IS HARMONIOUS WITH SURROUNDING PROPERTIES;

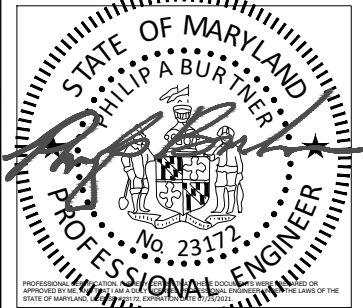
(E) THE APPLICANT SHALL PROVIDE CERTIFICATION FROM A REGISTERED ENGINEER THAT THE STRUCTURE WILL MEET THE APPLICABLE DESIGN STANDARDS FOR WIND LOADS OF THE ELECTRONIC INDUSTRIES ASSOCIATION (EIA) FOR PRINCE GEORGE'S COUNTY; AND
(F) ANY MONOPOLE WHICH IS NO LONGER USED FOR TELECOMMUNICATIONS PURPOSES FOR A CONTINUOUS PERIOD OF ONE (1) YEAR SHALL BE REMOVED BY THE MONOPOLE OWNER AT OWNER'S EXPENSE.

(CB-61-1988; CB-81-1993; CB-123-1994; CB-103-1997; CB-13-1998; CB-65-2000)

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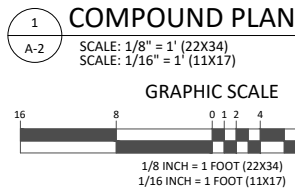
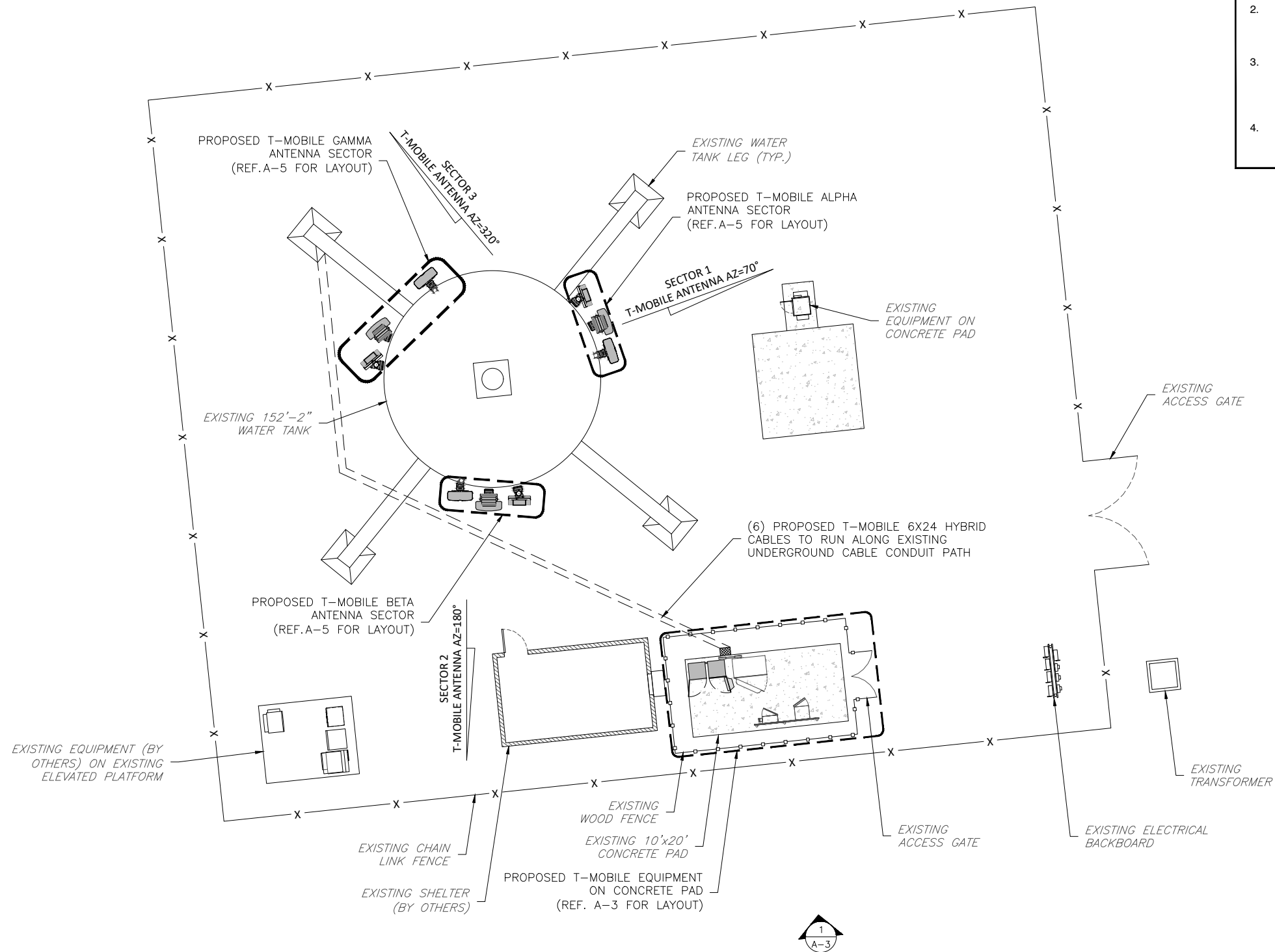
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SITE ID:
7WAS039C
SITE ADDRESS:
EDMONSTON ROAD GREENBELT, MARYLAND 20770

SHEET TITLE:
SITE PLAN
DRAWING:
A-1



NOTES

1. CONTRACTOR SHALL MAKE A UTILITY "ONE CALL" TO LOCATE ALL UTILITIES PRIOR TO EXCAVATING.
2. CONSTRUCTION TO COMMENCE UPON COMPLETION OF A PASSING STRUCTURAL ANALYSIS. STRUCTURAL ANALYSIS TO BE PERFORMED BY CENTERLINE COMMUNICATIONS.
3. REFERENCE STRUCTURAL ANALYSIS BY CENTERLINE COMMUNICATIONS FOR FURTHER INFORMATION REGARDING THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THIS EQUIPMENT UPGRADE.
4. REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA MODELS AND SETTINGS.

T - Mobile NORTHEAST LLC

T-MOBILE NORTHEAST, LLC.
12050 BALTIMORE AVENUE
BELTSVILLE, MARYLAND 20705
PHONE: (240) 264-8600
FAX: (240) 264-8610



750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

REVISIONS

REV	DATE	DESCRIPTION	BY
1	08/03/21	REVISED RFDS	TA
0	04/14/21	ISSUED FOR PERMIT	RL

DESIGNED BY:	APPROVED BY:
RL	RC



DATE: 08/03/21

PHILIP A. BURTNER, P.E.
MARYLAND PROFESSIONAL ENGINEER
LICENSE #23172

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SITE ADDRESS:
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SHEET TITLE:
COMPOUND PLAN
DRAWING:
A-2



NOTES

- CONTRACTOR SHALL MAKE A UTILITY "ONE CALL" TO LOCATE ALL UTILITIES PRIOR TO EXCAVATING.
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- REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA MODELS AND SETTINGS.

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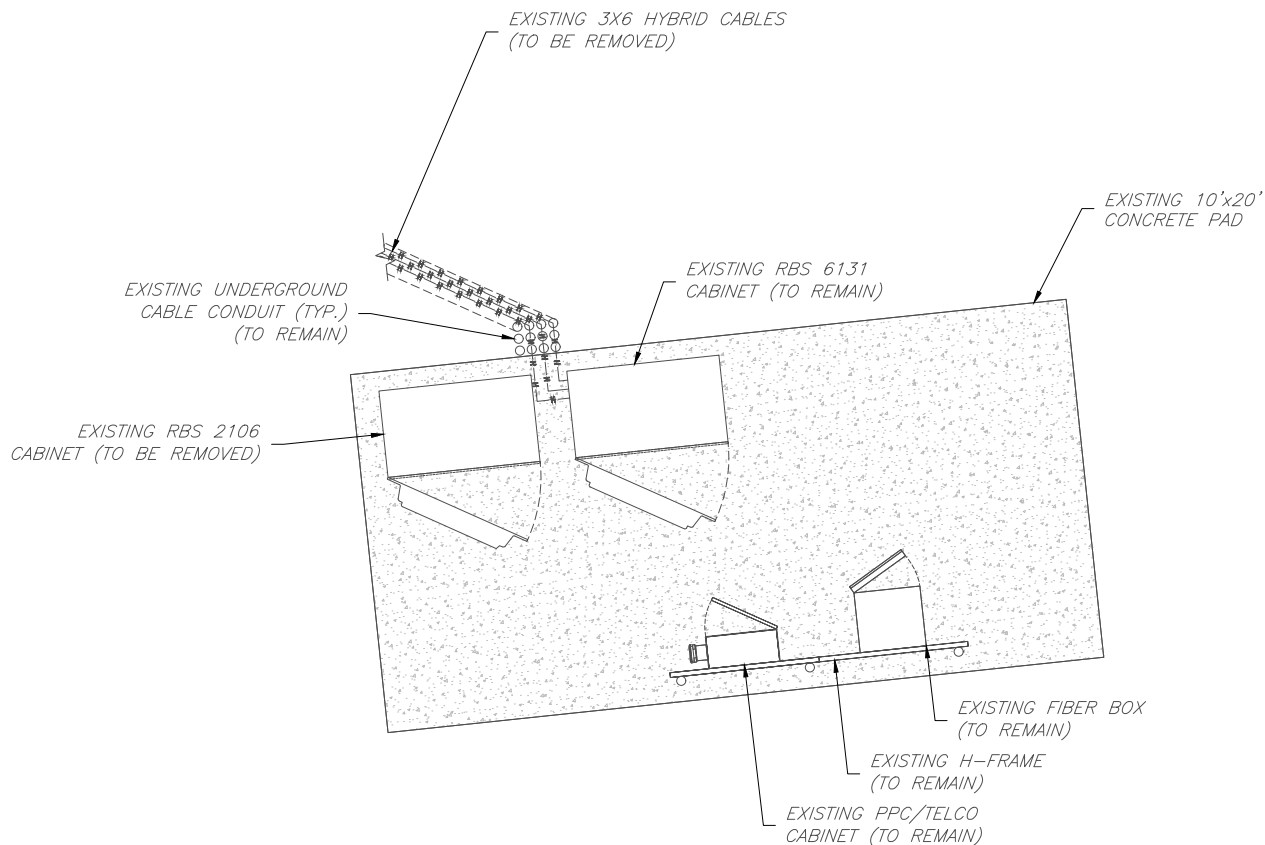


DATE: 08/03/21

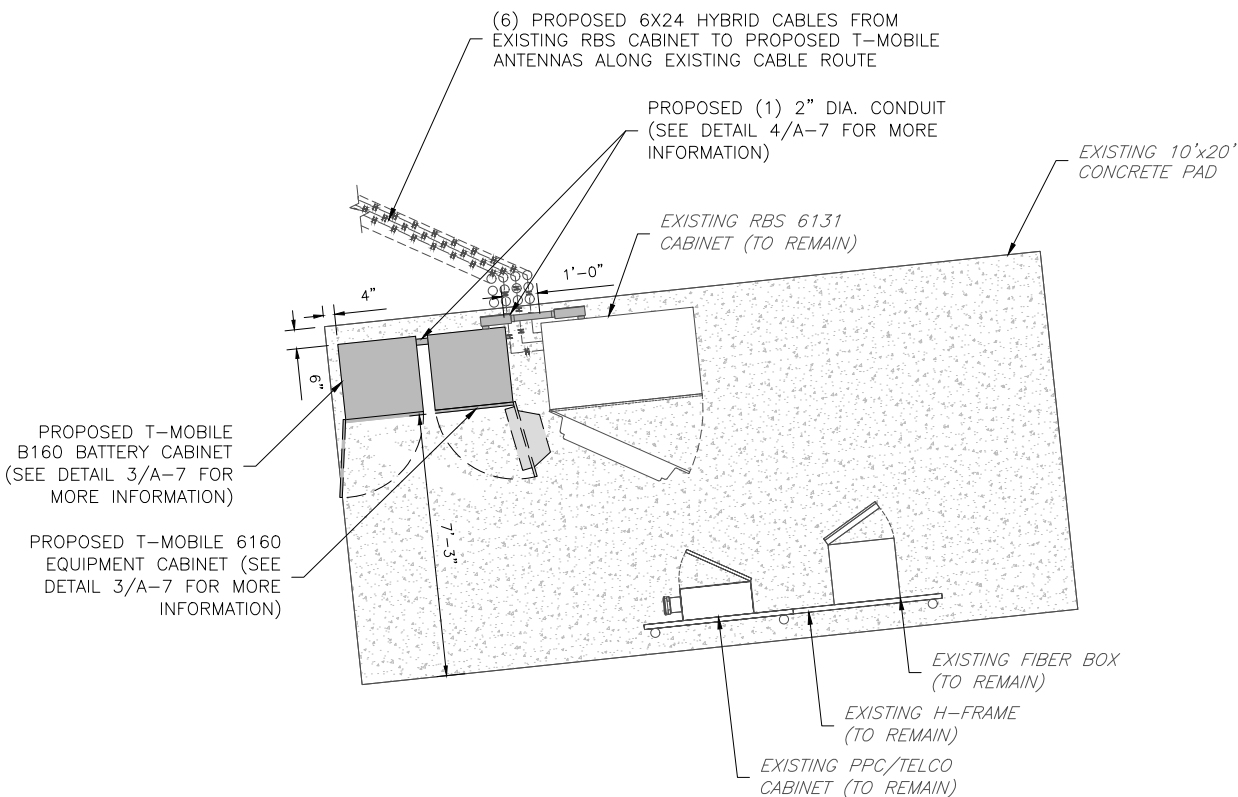
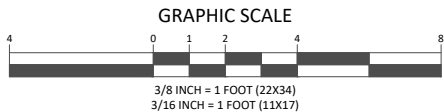
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SITE ID: 7WAS039C
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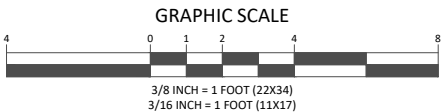
SHEET TITLE: EQUIPMENT LAYOUT PLANS
DRAWING: A-3



1
A-3
EXISTING EQUIPMENT LAYOUT
SCALE: 3/8" = 1' (22X34)
SCALE: 3/16" = 1' (11X17)



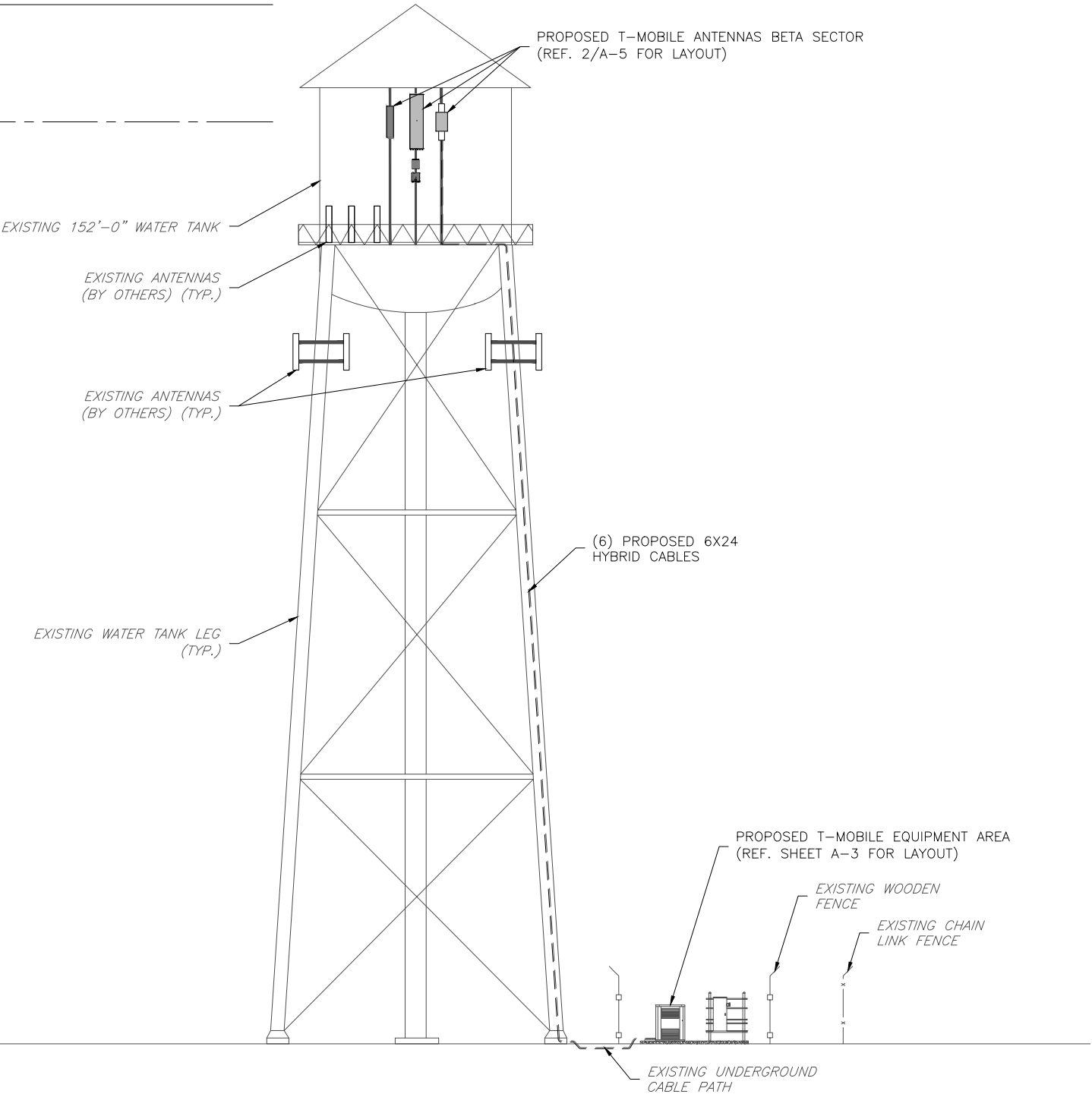
2
A-3
PROPOSED EQUIPMENT LAYOUT
SCALE: 3/8" = 1' (22X34)
SCALE: 3/16" = 1' (11X17)



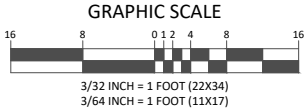


TOP OF EXISTING WATER TANK
152'-2" AGL

Q. OF PROPOSED T-MOBILE ANTENNAS
135'-0" AGL



1 SOUTH ELEVATION
A-4
SCALE: 3/32" = 1' (22X34)
SCALE: 3/64" = 1' (11X17)



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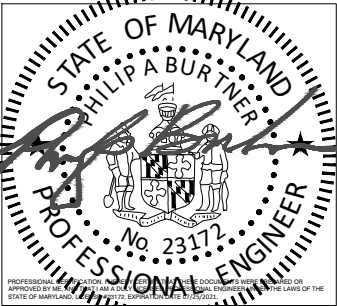


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SHEET TITLE: SOUTH ELEVATION
DRAWING: A-4



NOTES:

1. REFERENCE LATEST STRUCTURAL / MOUNT ANALYSIS BY CENTERLINE COMMUNICATIONS DATED XX/XX/2021 FOR MORE STRUCTURAL INFORMATION
2. REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.
3. REMOVE ALL UNUSED CABLE, RRUS AND TMAS.

ANTENNA & CABLE SCHEDULE:

LOCATION		AZIMUTH	RAD CENTER	STATUS	TECHNOLOGY	ANTENNA MODEL NO.	MECH DOWNTILT	ELEC DOWNTILT	CABLES	DIPLEXERS	TMA/RRU	CABLE SIZE	CABLE LENGTH
ALPHA	A-1	70°	135°-0"	PROPOSED	L2500, N2500	AIR6449 B41	0°	3°/3°	N/A	N/A	N/A	6x24 HYBRID	±270'
	A-2	70°	135°-0"	PROPOSED	L600, L700, N600	APXVAALL24_43-U-NA20	0°	5°/5°	COAX JUMPER (X4)	N/A	RRUS 4480 B71+B85	6x24 HYBRID	±270'
	A-3	70°	135°-0"	PROPOSED	U1900, L1900 L2100, G1900	VV-65A-R1	0°	4°/4°	COAX JUMPER (X4)	N/A	RRUS 4460 B25+B66	SHARED	N/A
BETA	B-1	180°	135°-0"	PROPOSED	L2500, N2500	AIR6449 B41	0°	3°/3°	N/A	N/A	N/A	6x24 HYBRID	±270'
	B-2	180°	135°-0"	PROPOSED	L600, L700, N600 U2100, L1900	APXVAALL24_43-U-NA20	0°	7°/7°/0°/0°	COAX JUMPER (X4)	N/A	RRUS 4480 B71+B85	6x24 HYBRID	±270'
	B-3	180°	135°-0"	PROPOSED	U1900, L1900 L2100, G1900	VV-65A-R1	0°	4°/4°	COAX JUMPER (X4)	N/A	RRUS 4460 B25+B66	SHARED	N/A
GAMMA	G-1	320°	135°-0"	PROPOSED	L2500, N2500	AIR6449 B41	0°	3°/3°	N/A	N/A	N/A	6x24 HYBRID	±240'
	G-2	320°	135°-0"	PROPOSED	L600, L700, N600 U2100, L1900	APXVAALL24_43-U-NA20	0°	5°/5°/0°/0°	COAX JUMPER (X4)	N/A	RRUS 4480 B71+B85	6x24 HYBRID	±240'
	G-3	320°	135°-0"	PROPOSED	U1900, L1900 L2100, G1900	VV-65A-R1	0°	4°/4°	COAX JUMPER (X4)	N/A	RRUS 4460 B25+B66	SHARED	N/A
NOTE: DARK TEXT IN TABLE ABOVE DENOTES PROPOSED EQUIPMENT												TOTAL 6x12 HYBRID CABLE	±1560'

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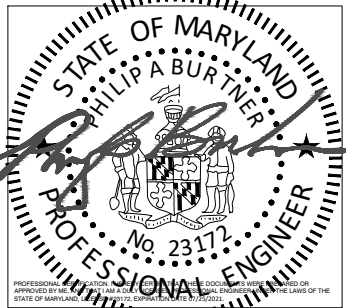


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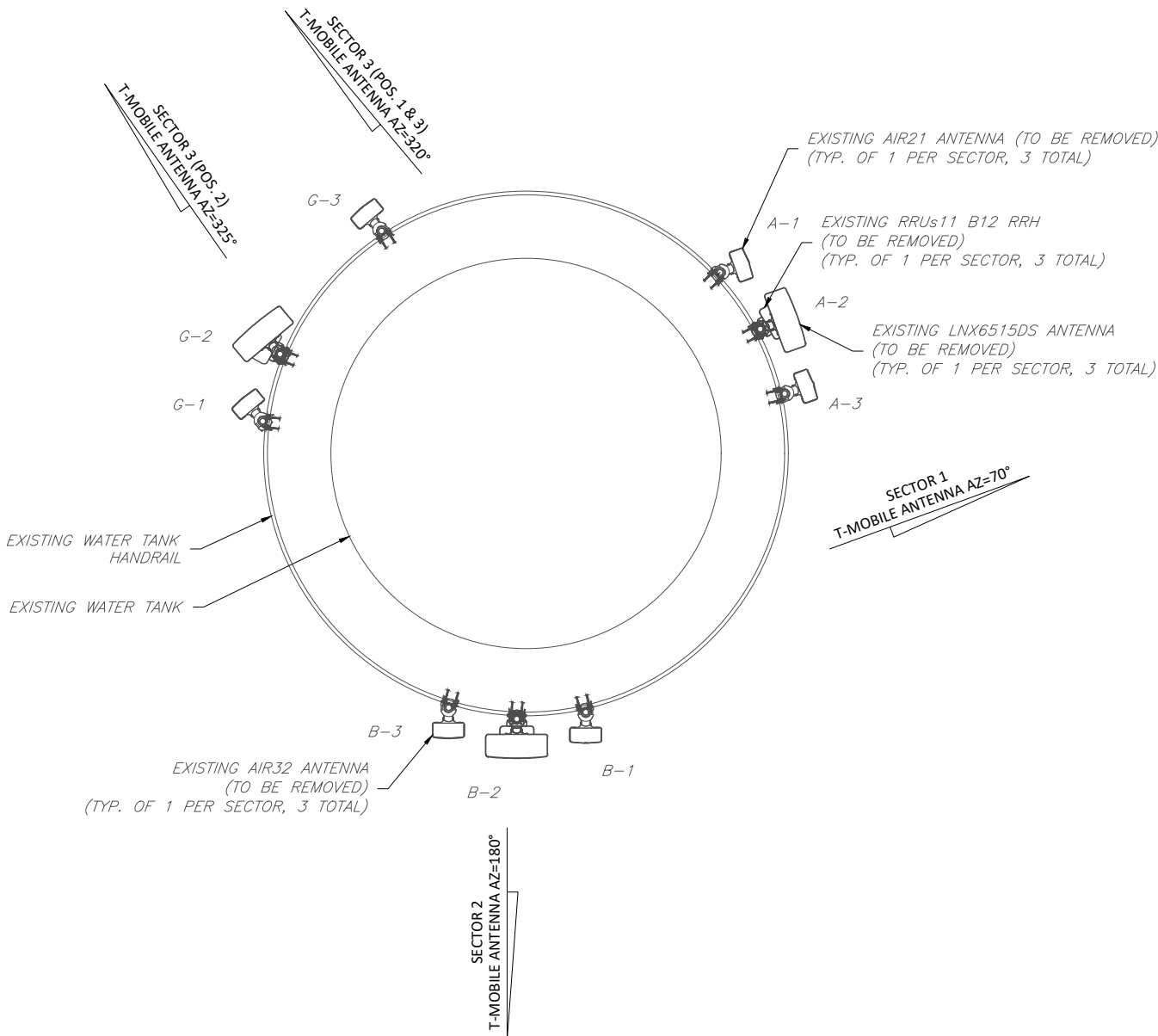
DATE: 08/03/21

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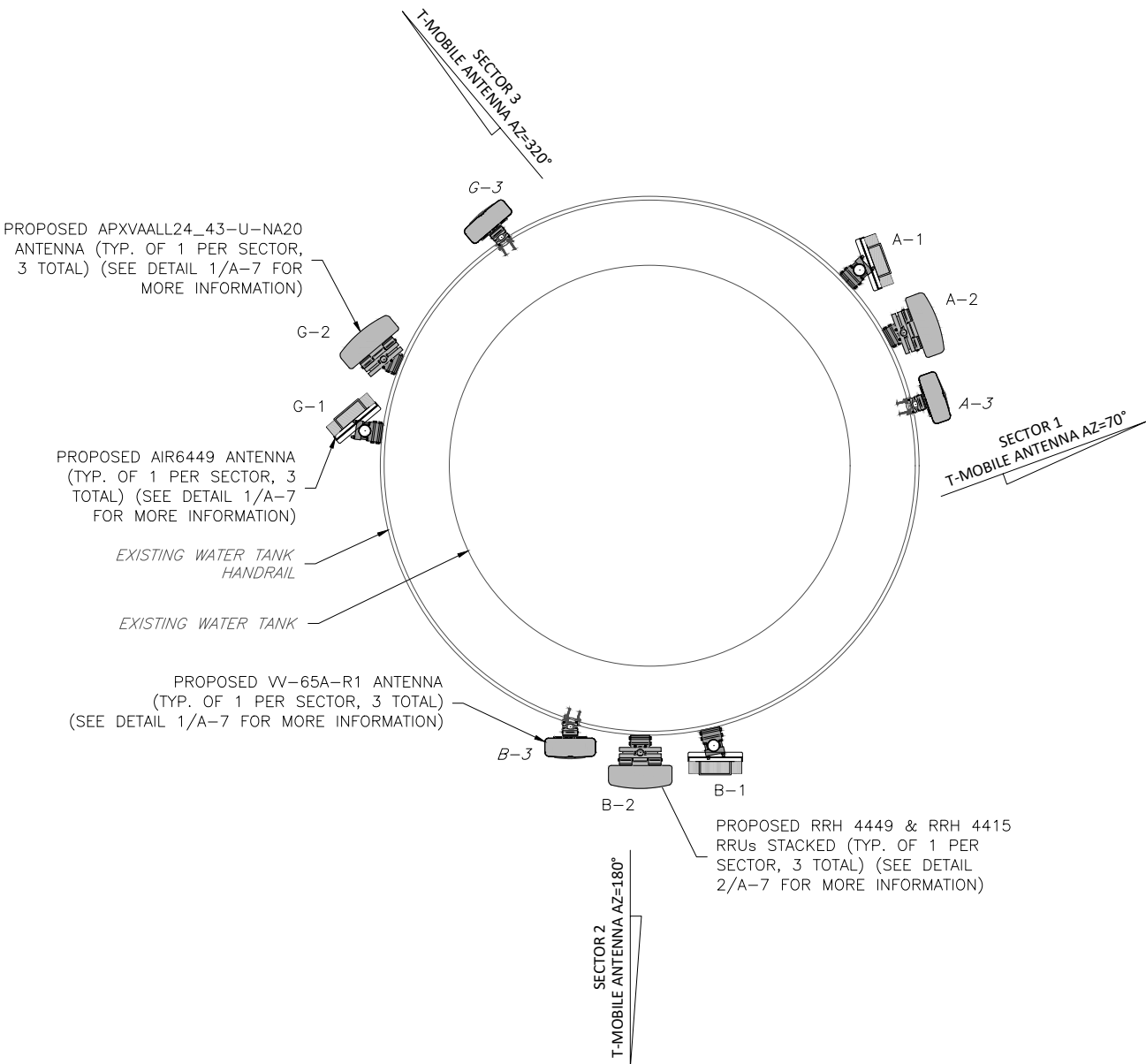
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SHEET TITLE: ANTENNA PLANS & SCHEDULE
DRAWING: A-5



1
A-5
EXISTING ANTENNA PLAN
NOT TO SCALE



2
A-5
PROPOSED ANTENNA PLAN
NOT TO SCALE

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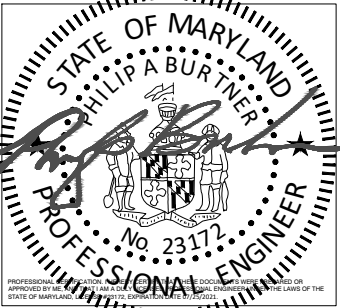


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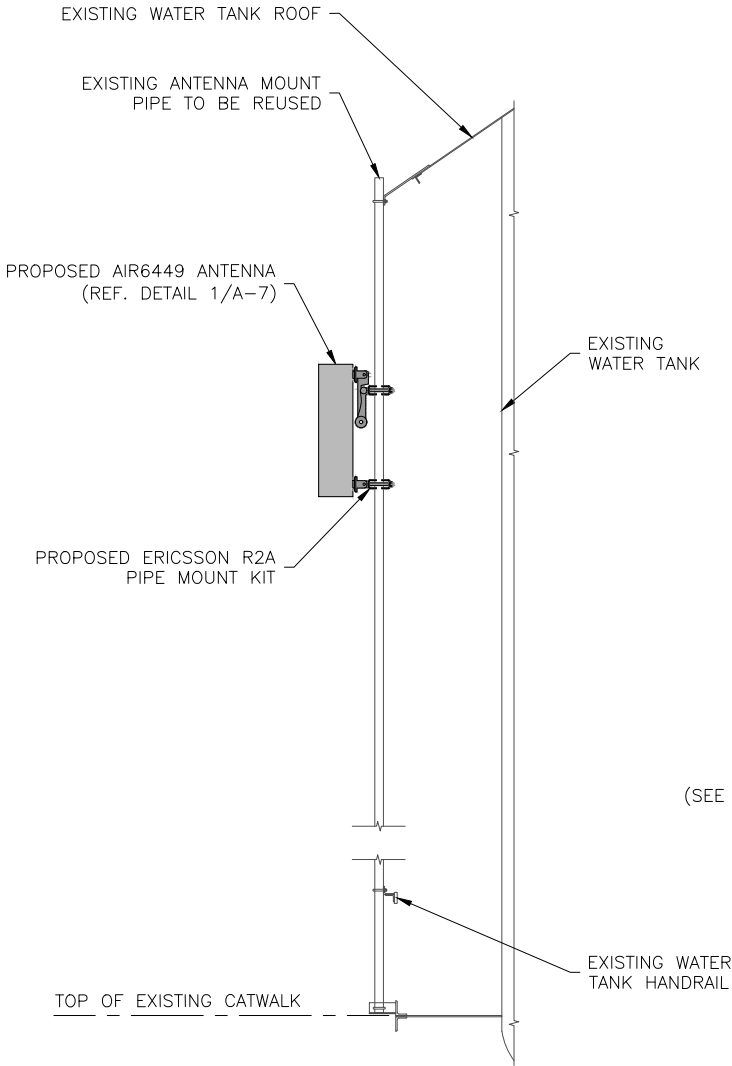
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SITE NAME: USDA - LAUREL
SITE ID: 7WAS039C
SITE ADDRESS: EDMONSTON ROAD GREENBELT, MARYLAND 20770

SHEET TITLE: ANTENNA & RRU MOUNTING DETAILS
DRAWING: A-6

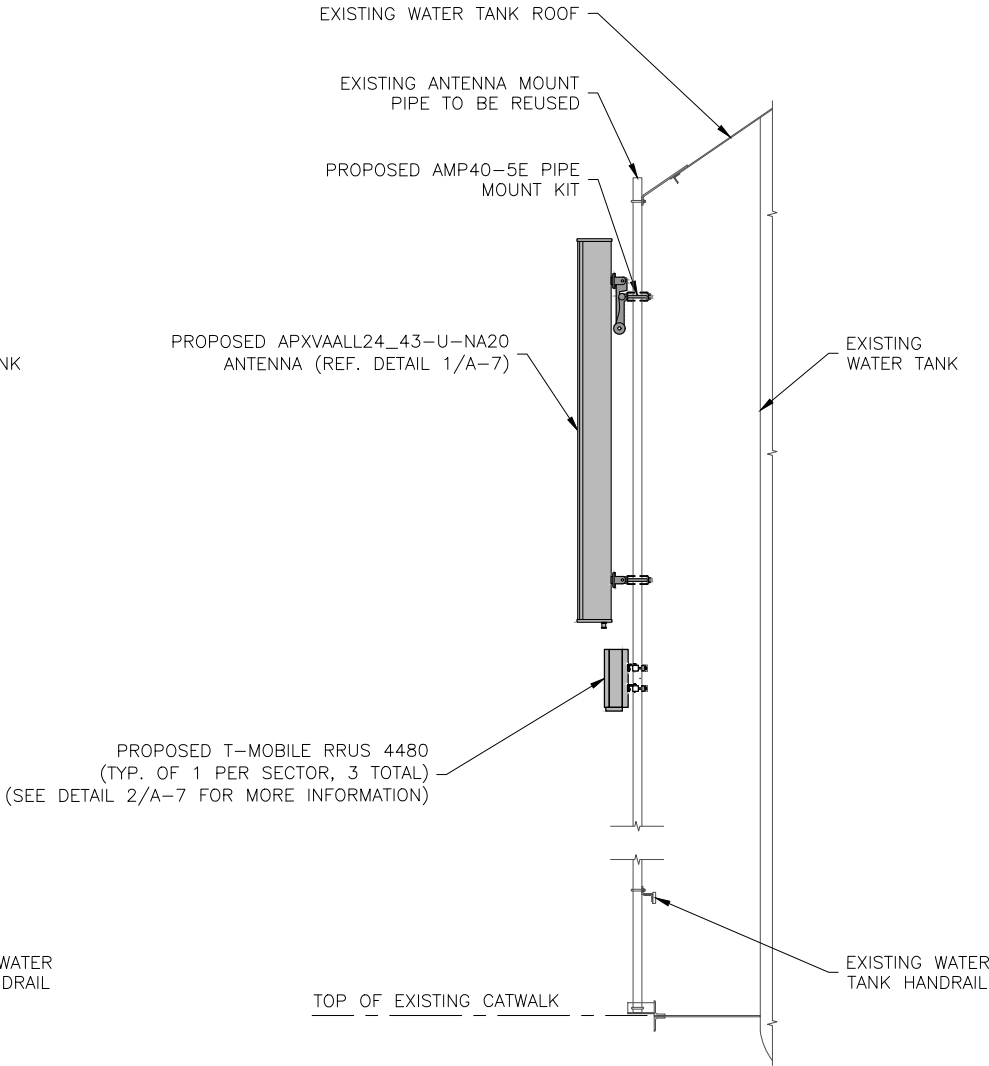
NOTES FOR ANTENNA MOUNTS:

- AIR 32: KATHREIN SCALA PIPE MOUNT KIT
P/N 85010070
- AIR6449: ERICSSON R2A PIPE MOUNT KIT
- APXVAALL24-43-U-NA20: APM40-5E PIPE MOUNT KIT



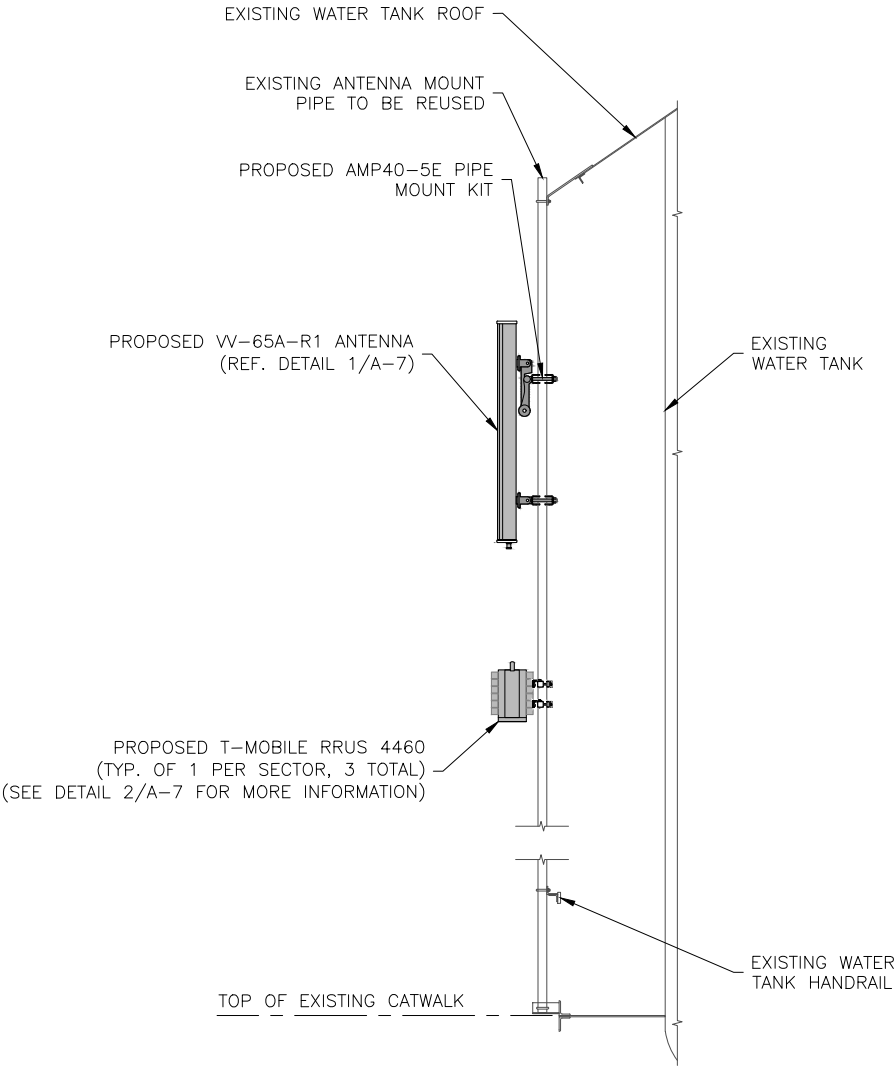
NOTES

- ANTENNA MOUNT DETAIL FOR POSITION A1, B1, & G1.



NOTES

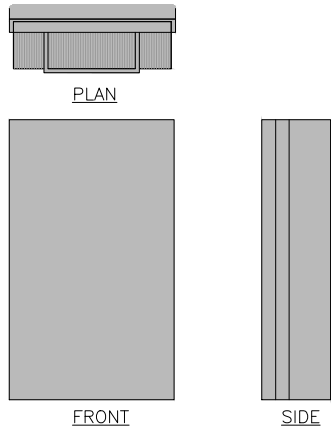
- ANTENNA MOUNT DETAIL FOR POSITION A2, B2, & G2.



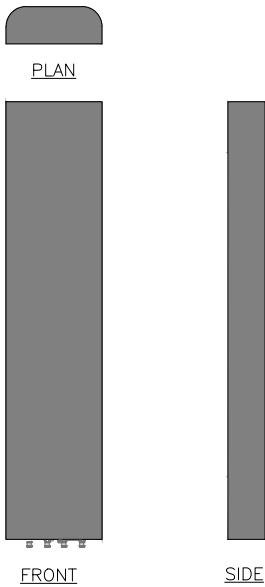
NOTES

- ANTENNA MOUNT DETAIL FOR POSITION A3, B3, & G3.

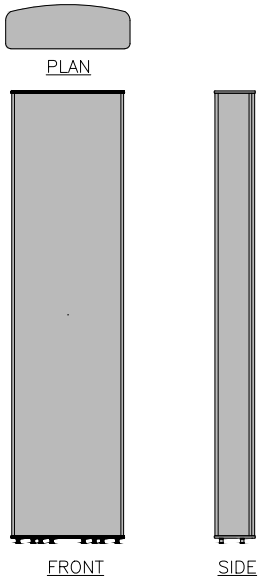
ERICSSON AIR 6449 B41	
MODEL #	AIR 6449 B41
MANUF.	ERICSSON
HEIGHT	33.1"
WIDTH	20.6"
DEPTH	8.6"
WEIGHT	104.0 LBS



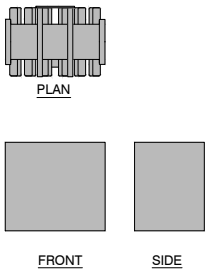
COMMSCOPE VV-65A-R1	
MODEL #	VV-65A-R1
MANUF.	COMMSCOPE
HEIGHT	54.724"
WIDTH	12.087"
DEPTH	4.646
WEIGHT	23.81/32.408 LBS WITH MOUNTING HARDWARE



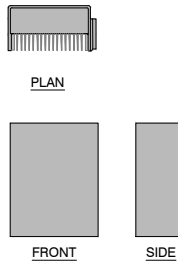
RFS APXVAALL24_43-U-NA20	
MODEL #	APXVAALL24_43-U-NA20
MANUF.	RFS
HEIGHT	95.9"
WIDTH	24.0"
DEPTH	8.5"
WEIGHT	128/153.3 LBS with Mounting Hardware



1 ANTENNA DETAILS
A-7 NOT TO SCALE

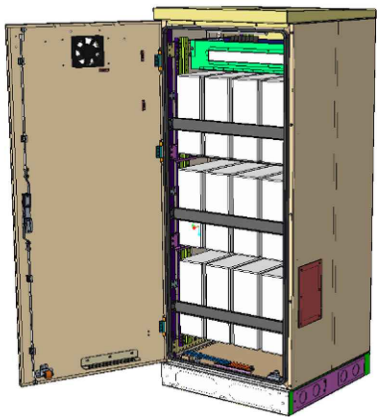


RADIO DIMENSIONS	
MODEL #	RADIO 4460 B25_B66
MANUF.	ERICSSON
HEIGHT	15.1"
WIDTH	17.0"
DEPTH	11.9"
WEIGHT	108 LBS



RADIO DIMENSIONS	
MODEL #	RADIO 4480 B66
MANUF.	ERICSSON
HEIGHT	19.5"
WIDTH	15.1"
DEPTH	7.8"
WEIGHT	87 LBS

2 RADIO DETAILS
A-7 NOT TO SCALE



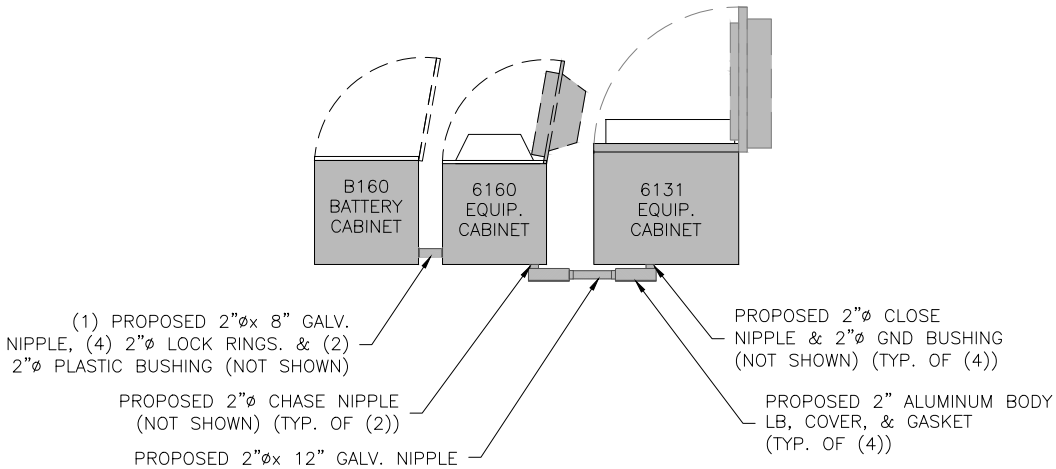
Preliminary technical specification for Enclosure 6160 AC	
CAPACITY	
Rack space user equipment	10U (10' rack)
Hardware capabilities	Power and CPRI support for multi-standard remote radios (RRU or AIR) ERS Baseband and Transport units Li-Ion batteries 3PP equipment Additional power feed available as option
MECHANICAL SPECIFICATION	
Weight	145 kg (excluding active equipment) 320 kg (excluding active equipment)
Dimension (H x W x D)	1600 x 650 x 650 mm (incl. Base frame) 63 x 26 x 26 in. (incl. Base frame)
Base frame height	150 mm 6 in.
Mounting position	Ground
Enclosure material	Aluminum
Color	Powder paint NCS 2002-B
Door	Front access
Rack type	10" (IEC 60297-3-100)
Locking type	Pad lock or Cylinder
POWER SYSTEM	
Input voltage	3P+N+PE: 345/200-415/240 VAC 2P+N+PE: 208/120-220/127 VAC 1P+N+PE: 200-230 VAC

6160 EQUIPMENT ENCLOSURE

- Capacity
- VRLA 12V: 100Ah / 150Ah / 170Ah / 190Ah / 210Ah
 - Li-Ion: 24U 19" / 23"
 - Sodium-Nickel: 3x FIAMM
- Electrical specification
- DC Output: -48VDC/200A
 - Battery breakers: 2x 125/2p
 - Alarms: Door open, Climate failure, MCB Connection
- Mechanical specification
- Weight: 134kg
 - Dimensions: 63 x 26 x 26 in. (incl. Base frame)
 - Base frame height: 6 in.
 - Material: Galvanized steel (180g/m²)
 - Color: Powder paint NCS 2002-B
 - Door: Front access
 - Locking type: Pad lock / cylinder

B160 BATTERY ENCLOSURE

3 PROPOSED EQUIPMENT CABINET SPECIFICATIONS
A-7 NOT TO SCALE



4 NEW EQUIPMENT CONDUIT DETAIL
A-7 NOT TO SCALE

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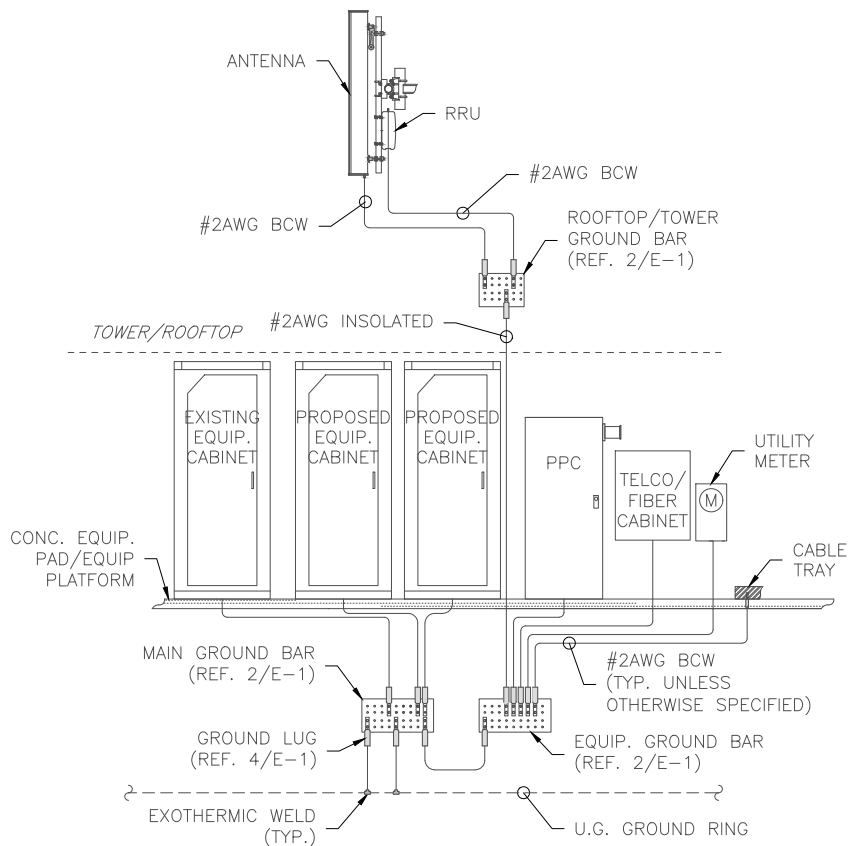
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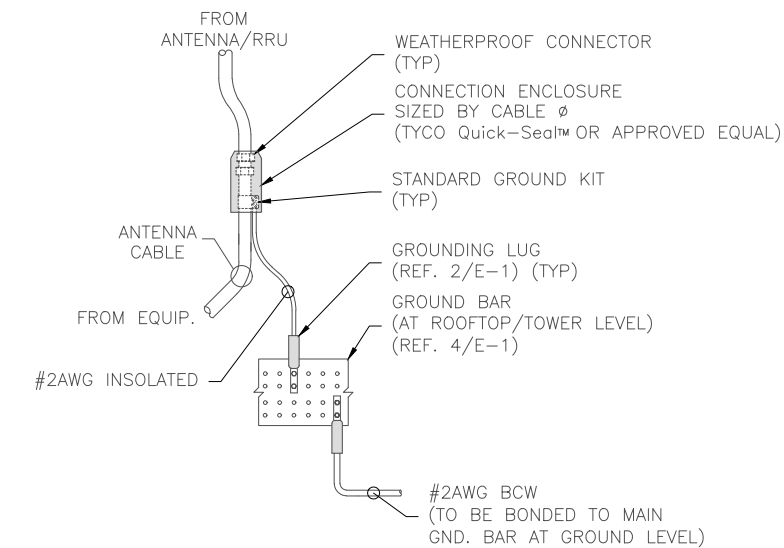
SITE NAME:	USDA - LAUREL
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SHEET TITLE:	EQUIPMENT DETAILS
DRAWING:	A-7



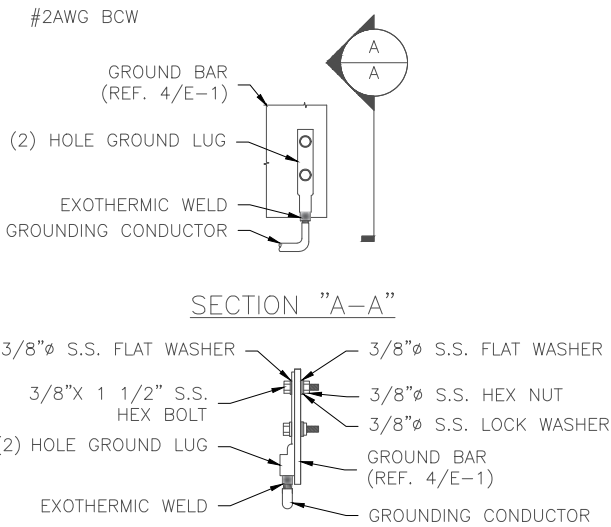
GROUNDING RISER NOTE:
UNLESS OTHERWISE SPECIFIED ALL GROUNDING CONDUCTORS ARE TO BE #2AWG BCW

1 GROUNDING RISER DIAGRAM
E-1 NOT TO SCALE



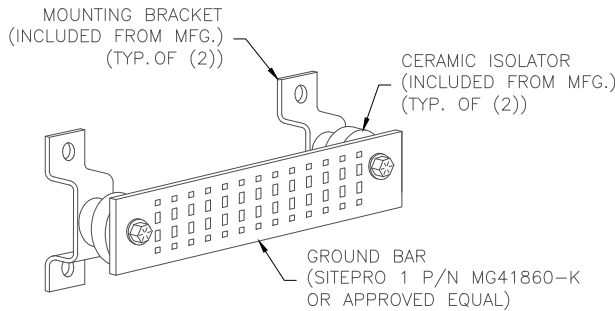
NOTES:
1. DO NOT INSTALL CABLE GROUND KIT AT BEND IN CABLE.
2. GROUND CABLES DIRECTLY TO CIGBE
3. JUMPER REQUIRED ONLY WHEN CABLE IS 1 1/4" OR LARGER

3 ANTENNA/RRU GROUNDING DETAIL
E-1 NOT TO SCALE



GROUNDING LUG NOTES:
1. DO NOT DOUBLE UP OR STACK LUGS.
2. OXIDE INHIBITING COMPOUND TO BE APPLIED TO ALL LUGS.
3. ALL LUGS ARE TO BE EXOTHERMIC WELDED TO GROUNDING CONDUCTORS.
4. FOR INSULATED GROUNDING CONDUCTORS, EXPOSED BARE COPPER TO BE KEPT TO ABSOLUTE MINIMUM.
5. NO INSULATION IS ALLOWED WITHIN THE BARREL OF THE COMPRESSION TERMINAL.

2 GROUND LUG DETAIL
E-1 NOT TO SCALE



4 GROUND BAR DETAIL
E-1 NOT TO SCALE

EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

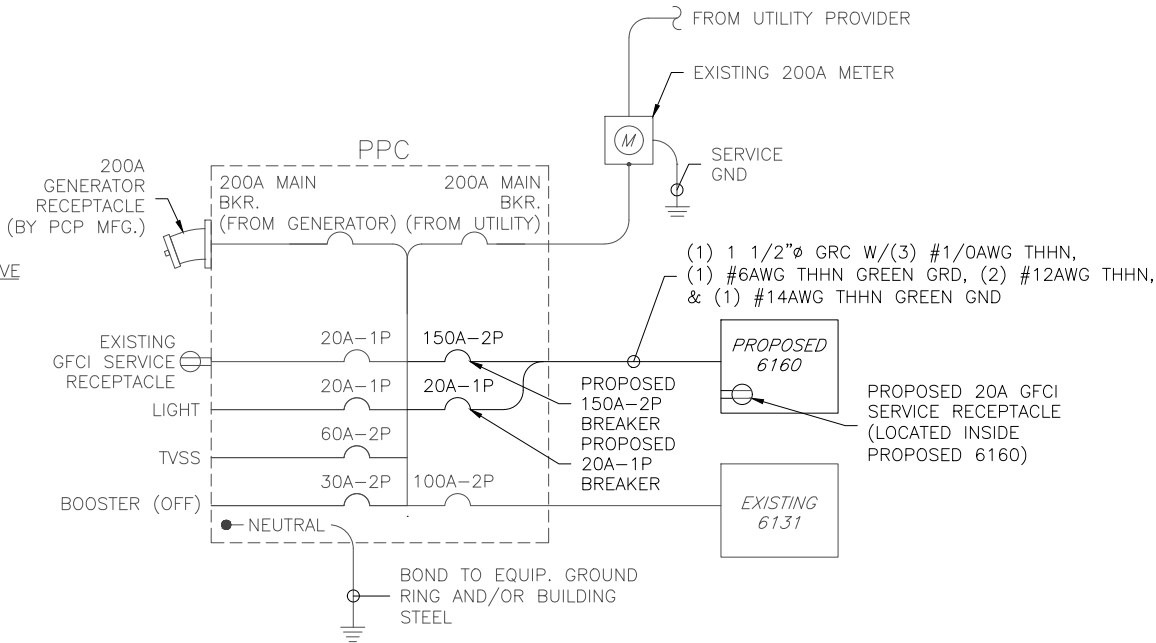
SECTION "P" - SURGE PRODUCERS

CABLE ENTRY PORTS (HATCH PLATES) (#2)
GENERATOR FRAMEWORK (IF AVAILABLE) (#2)
TELCO GROUND BAR
COMMERCIAL POWER COMMON NEUTRAL/GROUND BOND (#2)
+24V POWER SUPPLY RETURN BAR (#2)
-48V POWER SUPPLY RETURN BAR (#2)
RECTIFIER FRAMES.

SECTION "A" - SURGE ABSORBERS

INTERIOR GROUND RING (#2)
EXTERNAL EARTH GROUND FIELD (BURIED GROUND RING) (#2)
METALLIC COLD WATER PIPE (IF AVAILABLE) (#2)
BUILDING STEEL (IF AVAILABLE) (#2)

5 GROUND WIRE SCHEDULE
E-1 NOT TO SCALE



6 ONE LINE DIAGRAM
E-1 NOT TO SCALE

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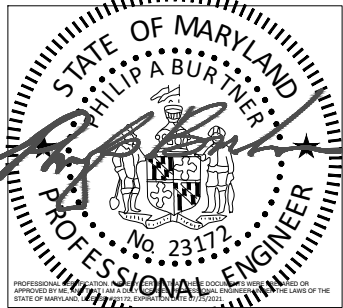


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SITE ID: 7WAS039C
SITE ADDRESS: EDMONSTON ROAD GREENBELT, MARYLAND 20770

SHEET TITLE: GROUNDING DETAILS & ONE LINE DIAGRAM
DRAWING: G-1

Revised Structural Analysis Report

Site ID: 7WAS039C

Site Name: USDA - Laurel

Project Name: Anchor

Address: Edmonston Rd.
Greenbelt, MD 20770

Client:



NORTHEAST, LLC

**12050 Baltimore Avenue
Beltsville, MD 20705**

Date: 8/2/2021 (Rev. 1)

4/13/2021 (Rev. 0)



Scope of Work:

Centerline Communications was authorized by T-Mobile Northeast LLC to perform an analysis of the existing structure to determine its capacity to support the proposed T-Mobile equipment listed in this report.

Proposed Equipment:

- (1) Ericsson 6160 Cabinet (Max. Weight = 605 lbs.)
- (1) Ericsson B160 Cabinet (Max. Weight = 1900 lbs.)

Existing Equipment:

- (1) Ericsson RBS 6131 (Approx. Weight = 1400 lbs.)
- (1) PPC (Approx. Weight = 150 lbs.)
- (1) Fiber Box (Approx. Weight = 250 lbs.)

Proposed Appurtenances:

- (3) APXVAALL24_43-U-NA20 Antennas
- (3) VV-65A-R1 Antennas
- (3) AIR6449 B41 Antennas
- (3) 4480 B71+B85 RRHs
- (3) 4460 B25+B66 RRHs

Design Criteria:**Design Codes:**

2018 International Building Code

ASCE 7-16

TIA-222-H Standards

Maryland Building Performance Standards (MBPS)

Ultimate Wind Speed	120 mph
Wind Speed with Ice	40 mph
Ice Thickness	1 in.
Exposure Category	B
Topographic Method	Method 1, Cat. 1
Structure Class	III
Site Soil Class (Assumed)	D-Stiff Soil
Seismic Design Category	B
Spectral Response Acceleration Parameter at a Short Periods, S_s	0.132 g
Spectral Response Acceleration Parameter at a Period of 1 Second, S_1	0.043 g
Short Period Site Coefficient, F_a	1.6
Long Period Site Coefficient, F_v	2.4
Ground Snow Load, P_g	25 psf

Refer to calculations for additional design criteria.*Conclusions:**

Based on the results of the analysis, we have determined that the existing structure is adequate to support the proposed and existing T-Mobile equipment loading.

Based on the results of the analysis, we have determined that the existing mounts are adequate to support the proposed T-Mobile equipment loading.

	Stress Ratio	Overall Result
Existing Mount	75%	PASS

Reference Documents:

- T-Mobile RFDS # 7WAS039C_Anchor_4, dated 07/26/2021
- Structural Analysis by Entrex, dated 04/07/2017
- Construction Drawings by Entrex, dated 04/07/2017

Assumptions and Limitations:

- The calculations performed by Centerline Communications are limited to the structural members in these calculations only.
- The existing structure is assumed to have been correctly designed and installed.
- The equipment pad is assumed to provide adequate structural support the proposed T-Mobile equipment.
- The analysis is only for the T-Mobile equipment loading listed in the report.
- The calculation assumes all structural members to be in good condition i.e. no damage, rust, or other defects.

Photos:



Existing Mount



Existing Equipment Pad

Design Calculations



ASCE 7 Hazards Report

Address:

No Address at This
Location

Standard:

ASCE/SEI 7-16

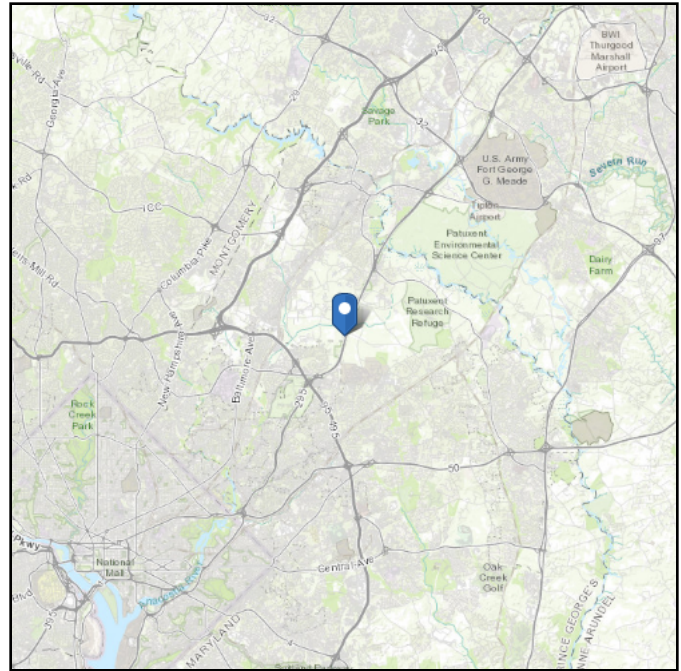
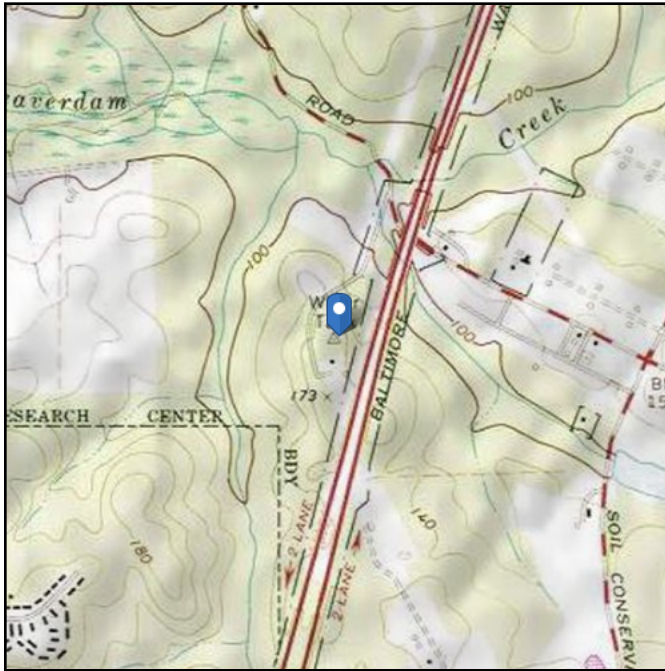
Risk Category: III**Soil Class:**

D - Stiff Soil

Elevation: 172.48 ft (NAVD 88)

Latitude: 39.017

Longitude: -76.860861



Wind

Results:

Wind Speed:	120 Vmph
10-year MRI	75 Vmph
25-year MRI	84 Vmph
50-year MRI	89 Vmph
100-year MRI	95 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1C and Figs. CC.2-1–CC.2-4, and Section 26.5.2

Date Accessed: Mon Apr 12 2021

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-16 Standard. Wind speeds correspond to approximately a 3% probability of exceedance in 50 years (annual exceedance probability = 0.000588, MRI = 1,700 years).

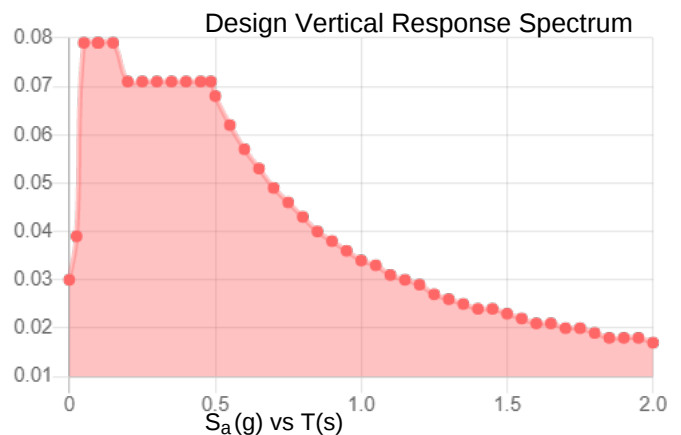
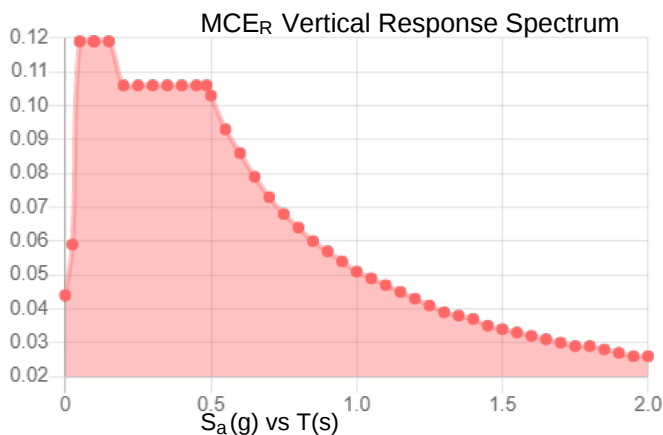
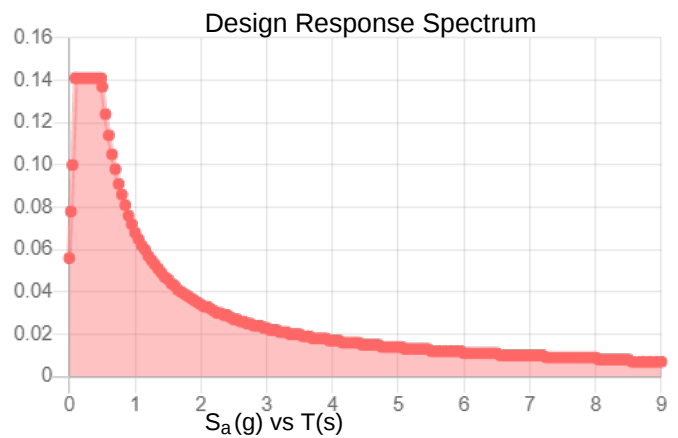
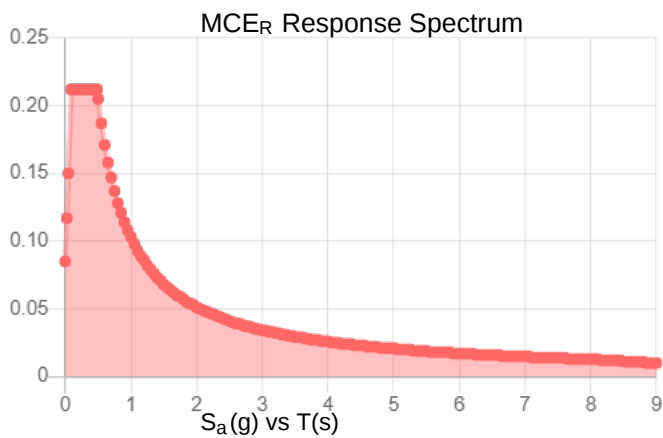
Site is not in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2.

Site Soil Class: D - Stiff Soil

Results:

S_S :	0.132	S_{D1} :	0.068
S_1 :	0.043	T_L :	8
F_a :	1.6	PGA :	0.068
F_v :	2.4	PGA _M :	0.109
S_{MS} :	0.212	F_{PGA} :	1.6
S_{M1} :	0.103	I_e :	1.25
S_{DS} :	0.141	C_v :	0.7

Seismic Design Category B



Data Accessed:

Mon Apr 12 2021

Date Source:

USGS Seismic Design Maps based on ASCE/SEI 7-16 and ASCE/SEI 7-16 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-16 Ch. 21 are available from USGS.

Ice

Results:

Ice Thickness: 1.00 in.

Concurrent Temperature: 15 F

Gust Speed: 40 mph

Data Source: Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8

Date Accessed: Mon Apr 12 2021

Ice thicknesses on structures in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 500-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

Snow

Results:

Ground Snow Load, p_g : 25 lb/ft²

Elevation: 172.5 ft

Data Source: ASCE/SEI 7-16, Table 7.2-8

Date Accessed: Mon Apr 12 2021

Values provided are ground snow loads. In areas designated "case study required," extreme local variations in ground snow loads preclude mapping at this scale. Site-specific case studies are required to establish ground snow loads at elevations not covered.

The ASCE 7 Hazard Tool is provided for your convenience, for informational purposes only, and is provided “as is” and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE 7 standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

ASCE does not intend, nor should anyone interpret, the results provided by this Tool to replace the sound judgment of a competent professional, having knowledge and experience in the appropriate field(s) of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the contents of this Tool or the ASCE 7 standard.

In using this Tool, you expressly assume all risks associated with your use. Under no circumstances shall ASCE or its officers, directors, employees, members, affiliates, or agents be liable to you or any other person for any direct, indirect, special, incidental, or consequential damages arising from or related to your use of, or reliance on, the Tool or any information obtained therein. To the fullest extent permitted by law, you agree to release and hold harmless ASCE from any and all liability of any nature arising out of or resulting from any use of data provided by the ASCE 7 Hazard Tool.

Site Details		
Site Name	USDA - Laurel	
Carrier	T-Mobile	
City, State	Greenbelt, MD	
Project	Anchor	

Mount Details		
Mount Type	Pipe Mount	
Mount Height, z	135	ft
Number of Sectors	3	
Structure Type	Water Tank	
Structure Height, h	152.2	ft

Topographic Factors		
Topographic Procedure	No Topo	
Feature	Flat	
Crest Height, H	N/A	ft
Distance from Crest, x	N/A	ft
Slope (H/L)	N/A	
Topographic Factor, K_{zt}	1.00	

Seismic Factors		
Importance Factor, I_E	1.15	
Short Period Spectral Acceleration, S_s	0.132	g
1 Second Period Spectral Acceleration, S_1	0.043	g
Long-Period Transition Period, T_L	8	
Design Category	B	
Short Period Site Coefficient, F_a	1.60	
Long-Period Site Coefficient, F_v	2.4	

Site Parameters		
Wind Speed, V	120	mph
Wind Speed with Ice, V_i	40	mph
Design Ice Thickness, t_i	1	in
Risk Category	III	
Exposure Category	B	
AMSL	172.48	ft
Site Soil Class	D-Stiff Soil (Assumed)	

Code	
Building Code	2018 IBC
TIA Code	TIA-222-H
ASCE Code	7-16

Site Constants		
Importance Factor, I	1.15	
Wind Direction Prob. Factor, K_d	0.95	
Velocity Pressure Coefficient, K_z	1.08	
Ground Elevation Factor, K_e	0.99	
Rootop Wind Speed-Up Factor, K_s	1.00	
Gust Effect Factor, G_h	1.00	
Design Ice Thickness, t_{iz}	1.32	in
Velocity Pressure, q_z	37.47	psf
Velocity Pressure with Ice, q_{zi}	4.16	psf
Shielding Factor, K_a	0.90	
Flat Velocity Pressure ($Ca = 2.0$)	74.94	psf
Round Velocity Pressure ($Ca = 1.2$)	44.97	psf
Round Velocity Pressure with Ice ($Ca = 1.2$)	5.00	psf
Engineer Initials	AP	

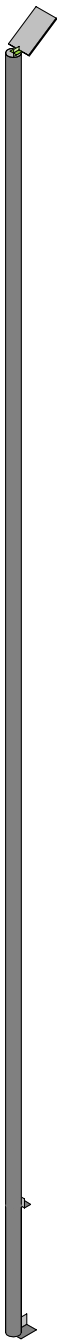
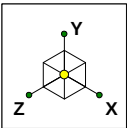
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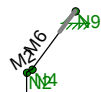
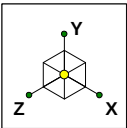
*Dish force coefficient is calculated per Annex C of TIA-222-H, if available.

[illegible]

Existing Mount Results



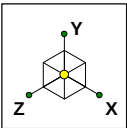
Centerline Communcation...	7WAS039C_MA	Rendered
AP		July 29, 2021 at 10:09 AM
		7WAS039C_MA.r3d



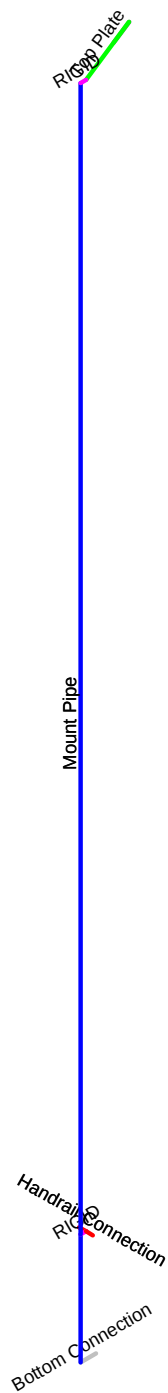
MP1



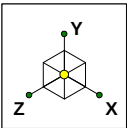
Centerline Communcation...	7WAS039C_MA	Wireframe
AP		July 29, 2021 at 10:09 AM
		7WAS039C_MA.r3d



Section Sets	
	Mount Pipe
	Top Plate
	Handrail Connection
	Bottom Connection
	RIGID



Centerline Communcation...	7WAS039C_MA	Section Sets
AP		July 29, 2021 at 10:09 AM
		7WAS039C_MA.r3d



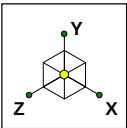
PL6 5x3/8

PIPE 3.0

L2 5x2x4

L3 3x4

Centerline Communcation...	7WAS039C_MA	Member Shape
AP		July 29, 2021 at 10:10 AM
		7WAS039C_MA.r3d



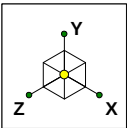
A36 Gr.36
R10 Gr.36

A53 Gr.B

A36 Gr.36
R10 Gr.36

A36 Gr.36

Centerline Communcation...	7WAS039C_MA	Material Sets
AP		July 29, 2021 at 10:10 AM
		7WAS039C_MA.r3d



1.33824
360

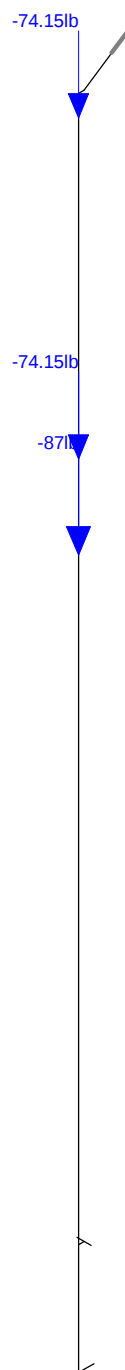
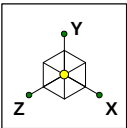
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1.33824
360

360

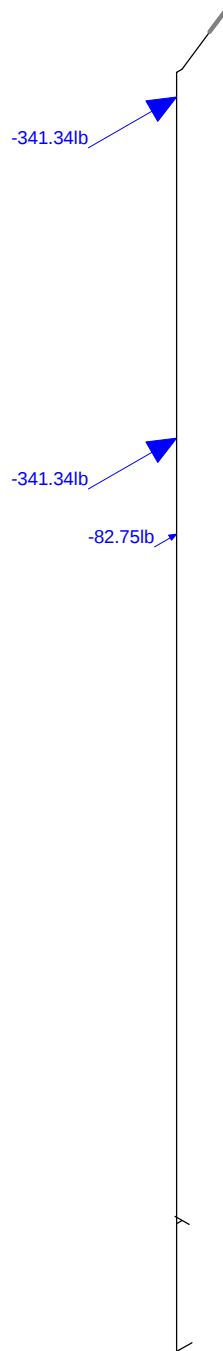
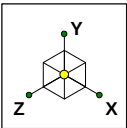
Member Length (in) Displayed

Centerline Communcation...	7WAS039C_MA	Member Length
AP		July 29, 2021 at 10:10 AM
		7WAS039C_MA.r3d



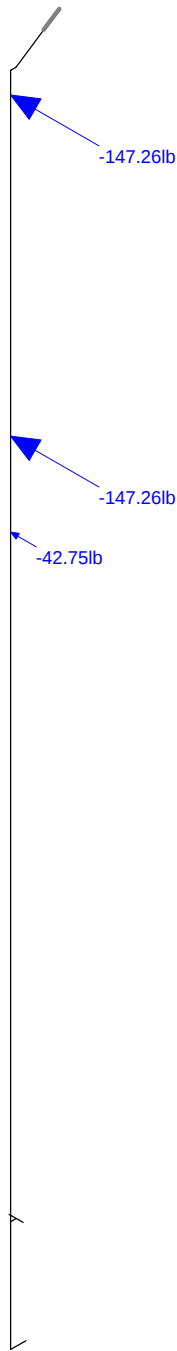
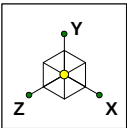
Loads: BLC 1, Dead Load

Centerline Communcation...	7WAS039C_MA	Dead Load
AP		July 29, 2021 at 10:10 AM
		7WAS039C_MA.r3d



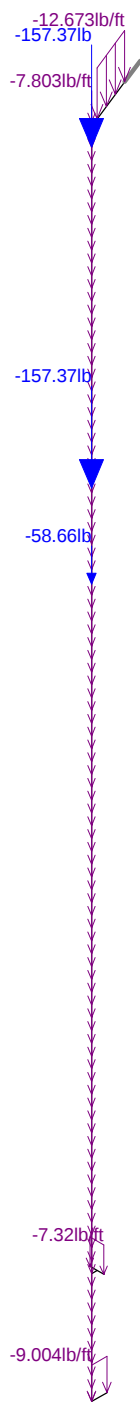
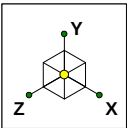
Loads: BLC 2, Wind 0

Centerline Communcation...	7WAS039C_MA	Wind 0
AP		July 29, 2021 at 10:10 AM
		7WAS039C_MA.r3d



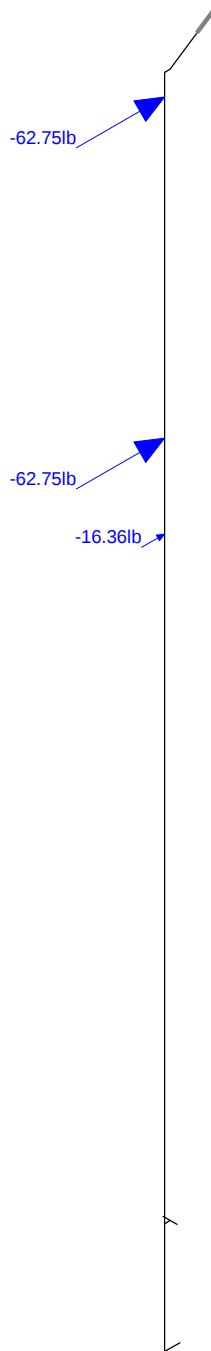
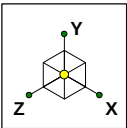
Loads: BLC 5, Wind 90

Centerline Communcation...	7WAS039C_MA	Wind 90
AP		July 29, 2021 at 10:10 AM
		7WAS039C_MA.r3d



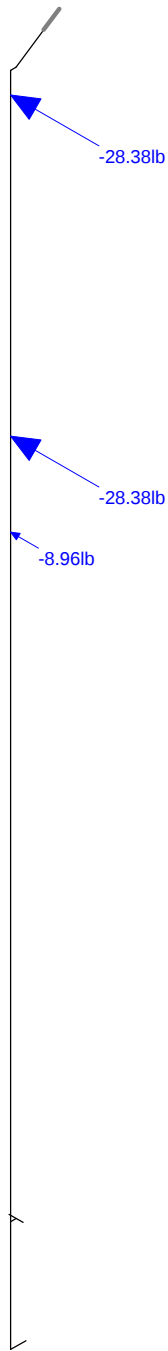
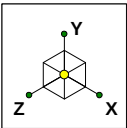
Loads: BLC 9, Ice Weight

Centerline Communcation...	7WAS039C_MA	Ice Weight
AP		July 29, 2021 at 10:11 AM
		7WAS039C_MA.r3d



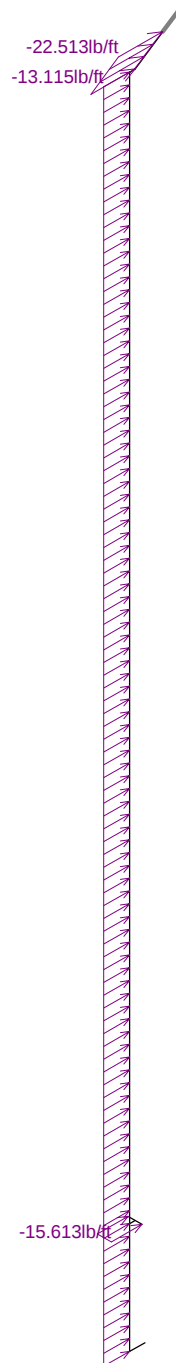
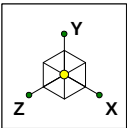
Loads: BLC 10, Ice + Wind 0

Centerline Communcation...	7WAS039C_MA	Ice + Wind 0
AP		July 29, 2021 at 10:11 AM
		7WAS039C_MA.r3d



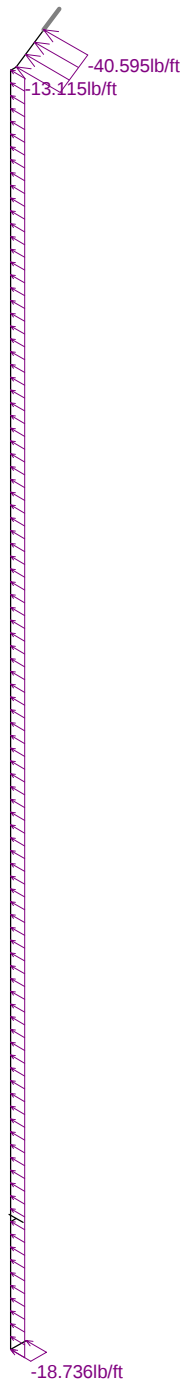
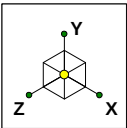
Loads: BLC 13, Ice + Wind 90

Centerline Communcation...	7WAS039C_MA	Ice + Wind 90
AP		July 29, 2021 at 10:11 AM
		7WAS039C_MA.r3d



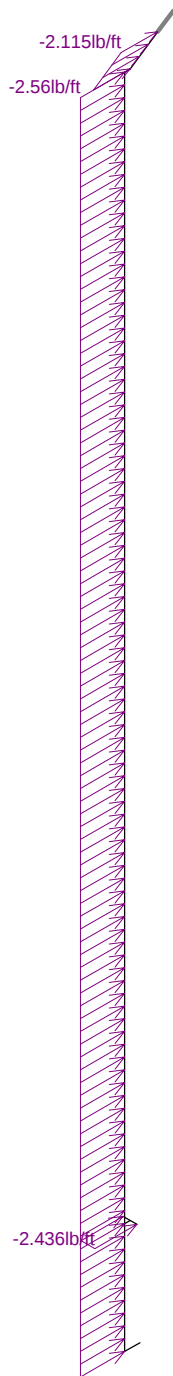
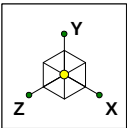
Loads: BLC 17, Distri. Wind Z

Centerline Communcation...	7WAS039C_MA	Distr. Wind 0
AP		July 29, 2021 at 10:11 AM
		7WAS039C_MA.r3d



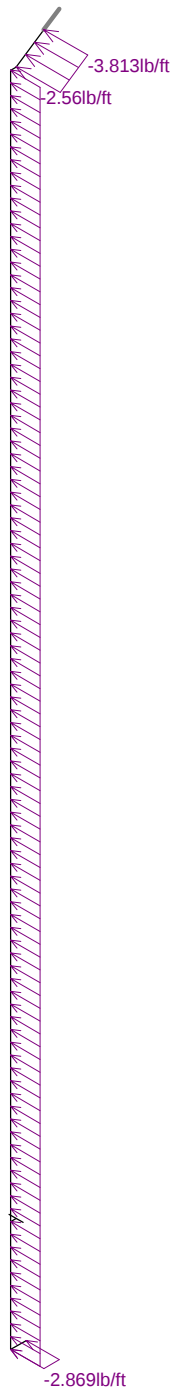
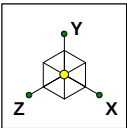
Loads: BLC 18, Distri. Wind X

Centerline Communcation...	7WAS039C_MA	Distr. Wind 90
AP		July 29, 2021 at 10:12 AM
		7WAS039C_MA.r3d



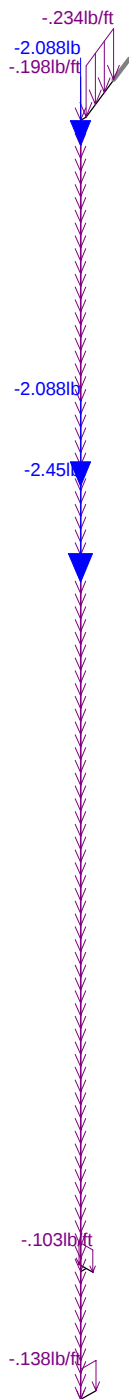
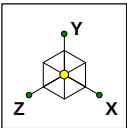
Loads: BLC 19, Distri. Ice + Wind Z

Centerline Communcation...	7WAS039C_MA	Distr. Ice + Wind 0
AP		July 29, 2021 at 10:12 AM
		7WAS039C_MA.r3d



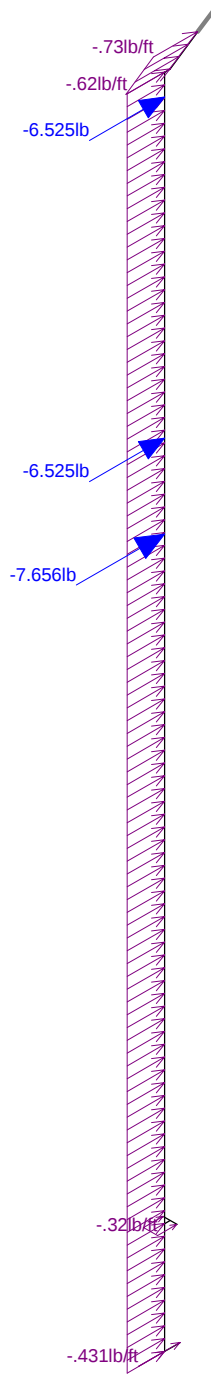
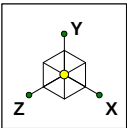
Loads: BLC 20, Distr. Ice + Wind X

Centerline Communcation...	7WAS039C_MA	Distr. Ice + Wind 90
AP		July 29, 2021 at 10:12 AM
		7WAS039C_MA.r3d



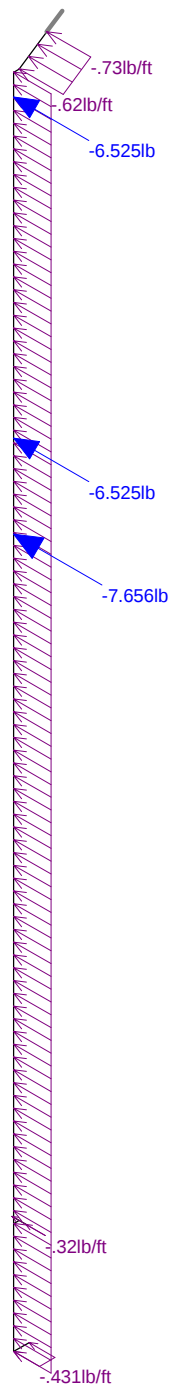
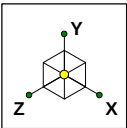
Loads: BLC 21, Seismic Load Y

Centerline Communcation...	7WAS039C_MA	Seismic Y
AP		July 29, 2021 at 10:12 AM
		7WAS039C_MA.r3d



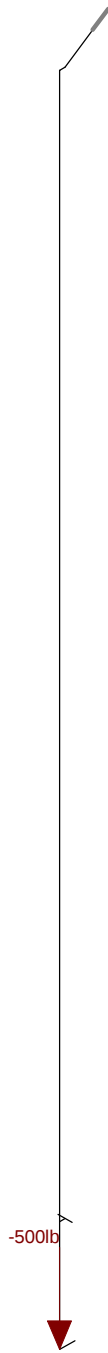
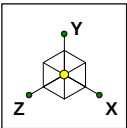
Loads: BLC 22, Seismic Load Z

Centerline Communcation...	7WAS039C_MA	Seismic Z
AP		July 29, 2021 at 10:12 AM
		7WAS039C_MA.r3d



Loads: BLC 23, Seismic Load X

Centerline Communcation...	7WAS039C_MA	Seismic X
AP		July 29, 2021 at 10:12 AM
		7WAS039C_MA.r3d



Loads: BLC 27, Maintenance Load 1

Centerline Communcation...	7WAS039C_MA	Maintenance Load
AP		July 29, 2021 at 10:13 AM
		7WAS039C_MA.r3d

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/...	Density[lb/ft^3]	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A992	29000	11154	.3	.65	490	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	.3	.65	490	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	.3	.65	490	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	.3	.65	527	42	1.4	58	1.3
5	A500 Gr.B Rect	29000	11154	.3	.65	527	46	1.4	58	1.3
6	A53 Gr.B	29000	11154	.3	.65	490	35	1.6	60	1.2
7	A1085	29000	11154	.3	.65	490	50	1.25	65	1.15
8	A913 Gr.65	29000	11154	.3	.65	490	65	1.1	80	1.1

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Mount Pipe	PIPE 3.0	Beam	Pipe	A53 Gr.B	Typical	2.07	2.85	2.85	5.69
2	Top Plate	PL6.5x3/8	Beam	RECT	A36 Gr.36	Typical	2.438	.029	8.582	.11
3	Handrail Connecti...	L2.5x2x4	Beam	Single Angle	A36 Gr.36	Typical	1.07	.372	.656	.024
4	Bottom Connection	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical	1.44	1.23	1.23	.031

Joint Coordinates and Temperatures

	Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
1	N1	0	0	0	0	
2	N2	0	360	0	0	
3	N3	0	36	0	0	
4	N4	0	360	-1.75	0	
5	N5	0	36	-1.75	0	
6	N6	0	0	-5	0	
7	N7	-2.25	36	-1.75	0	
8	N8	2.25	36	-1.75	0	
9	N9	0	369.33	-15.75	0	

Envelope Joint Reactions

	Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC
1	N9	max	392.113	5	835.285	8	738.536	9	0	60	0	60	0	60
2		min	-.039	8	-818.264	9	-739.499	8	0	1	0	1	0	1
3	N7	max	274.187	12	4717.305	4	1571.582	11	0	60	0	60	0	60
4		min	-3.916	9	-1306.804	15	-726.074	8	0	1	0	1	0	1
5	N8	max	274.187	12	1588.277	2	688.18	9	0	60	0	60	0	60

Envelope Joint Reactions (Continued)

	Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC
6		min	-3.916	9	-4221.316	13	-1474.804	6	0	1	0	1	0	1
7	N6	max	7.797	9	2086.821	8	995.874	8	0	60	0	60	0	60
8		min	-165.325	5	-1947.26	9	-942.407	9	0	1	0	1	0	1
9	Totals:	max	775.111	12	1299.001	54	1185.055	9						
10		min	0	9	411.75	15	-1185.055	8						

Joint Boundary Conditions

	Joint Label	X [k/in]	Y [k/in]	Z [k/in]	X Rot.[k-ft/rad]	Y Rot.[k-ft/rad]	Z Rot.[k-ft/rad]
1	N9	Reaction	Reaction	Reaction			
2	N7	Reaction	Reaction	Reaction			
3	N8	Reaction	Reaction	Reaction			
4	N6	Reaction	Reaction	Reaction			

Hot Rolled Steel Design Parameters

	Label	Shape	Length[in]	Lbyy[in]	Lbzz[in]	Lcomp top[in]	Lcomp bot[in]	L-torq...	Kyy	Kzz	Cb	Function
1	MP1	Mount Pipe	360			Lbyy						Lateral
2	M4	Bottom Con...	5			Lbyy						Lateral
3	M5	Handrail Co...	4.5			Lbyy						Lateral
4	M6	Top Plate	16.824			Lbyy						Lateral

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	MP1	N2	N1			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
2	M2	N2	N4			RIGID	None	None	RIGID	Typical
3	M3	N3	N5			RIGID	None	None	RIGID	Typical
4	M4	N1	N6			Bottom Conne...	Beam	Single Angle	A36 Gr.36	Typical
5	M5	N8	N7			Handrail Conn...	Beam	Single Angle	A36 Gr.36	Typical
6	M6	N9	N4		90	Top Plate	Beam	RECT	A36 Gr.36	Typical

Member Advanced Data

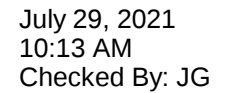
	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	MP1						Yes				None
2	M2						Yes	** NA **			None
3	M3						Yes	** NA **			None

Member Advanced Data (Continued)

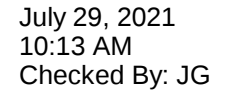
	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
4	M4						Yes				None
5	M5						Yes				None
6	M6			6			Yes				None

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
1	Dead Load	DL		-1			3		
2	Wind 0	WLZ					6		
3	Wind 30	None					6		
4	Wind 60	None					6		
5	Wind 90	WLX					6		
6	Wind 120	None					6		
7	Wind 150	None					6		
8	Wind 180	WLZ					6		
9	Ice Weight	DL					3	6	
10	Ice + Wind 0	WLZ					6		
11	Ice + Wind 30	None					6		
12	Ice + Wind 60	None					6		
13	Ice + Wind 90	WLX					6		
14	Ice + Wind 120	None					6		
15	Ice + Wind 150	None					6		
16	Ice + Wind 180	WLZ					6		
17	Distri. Wind Z	WLZ						6	
18	Distri. Wind X	WLX						6	
19	Distri. Ice + Wind Z	WLZ						6	
20	Distrr. Ice + Wind X	WLX						6	
21	Seismic Load Y	ELY					3	6	
22	Seismic Load Z	ELZ					3	6	
23	Seismic Load X	ELX					3	6	
24	Live Loads 1	LL							
25	Live Loads 2	LL							
26	Live Loads 3	LL							
27	Maintenance Load 1	None				1			



RISA-3D Version 17.0.4 [C:\...\Ashim Pant\Desktop\Projects\Active\7WAS039C\7WAS039C MA.r3d] Page 4



RISA-3D Version 17.0.4 [C:\...\Ashim Pant\Desktop\Projects\Active\7WAS039C\7WAS039C MA.r3d] Page 5



July 21, 2021

Ms. Shaya Samuel
T-Mobile Northeast, LLC
12050 Baltimore Avenue
Beltsville, Maryland 20705

**Re: Section 106 Review Report
Proposed Modification Site – T-Mobile “7WAS039C”
Edmonston Road
Greenbelt, Maryland 20770
39°01'01.2" North 76°51'39.1" West
AEC Project No. CL-2021-005**

Dear Mr. Samuel:

As required by Section 106, 36 CFR 800 of the National Historic Preservation Act (NHPA) of 1966, Advantage Environmental Consultants, LLC (AEC) completed a Section 106 submittal for the proposed undertaking at the above-referenced property (i.e., “the Site”). Centerline, on behalf of T-Mobile Northeast LLC, proposes replacing six existing antennas (three 56-inch tall by 12-inch wide, three 96.6-inch tall by 11.9-inch wide) with six new antennas (three 95.9-inch tall by 24-inch wide, and three 33.1-inch tall by 20.5-inch wide) on existing mounts. T-Mobile also proposes the addition of three new RRUs and two replacement equipment cabinets. Please note that no ground disturbance is proposed for this project. AEC’s findings are included below.

AEC conducted a preliminary screening of the Site to determine if the proposed construction installation design met the relevant stipulations to exclude the Site from additional Section 106 evaluation. These stipulations are referenced in the *Nationwide Programmatic Agreement for the Collocation of Wireless Antennas*, dated March 16, 2001, as executed by the Federal Communications Commission (FCC), National Conference of State Historic Preservation Officers (SHPOs), and the Advisory Council on Historic Preservation.

The Site structure was determined to have been constructed before 1957 (and thus, is greater than 45 years in age), and is within the Beltsville Agricultural Resource Center and 250 of the Baltimore Washington Parkway historic properties, which are National Register of Historic Places (NRHP) Eligible and Listed respectively. Based on AEC’s review of the *Nationwide Programmatic Agreement for the Collocation of Wireless Antennas*, dated March 16, 2001; and per Stipulation V, Part A, No. 1 and 2, a Section 106 submittal for the proposed installation was required.

FCC Tower Construction Notification System

On April 29, 2021, AEC uploaded the Site information into the FCC's Tower Construction Notification System (TCNS), to notify Native American Indian Tribes and historic preservation officers of the proposed installation. Based on response e-mails generated by TCNS (TCNS #230708), seven tribes had indicated geographical interest in the Site area and were thereby notified of the proposed construction (Delaware Nation, Bad River Band of Lake Superior Tribe of Chippewa Indians, Eastern Shawnee Tribe of Oklahoma, Wyandotte Nation, Shawnee Tribe, Delaware Tribe of Indians of Oklahoma, and Rappahannock Tribe [Cultural Heritage Partners]).

AEC forwarded the Delaware Nation additional Site information on May 21, 2021. A response was received from the Delaware Nation on June 21, 2021, indicating that the project will have No Adverse Effect on properties of sacred and/or cultural significance to the Tribe.

The Bad River Band of Lake Superior Tribe of Chippewa Indians has stated that they do not wish to consult on projects that they do not reply to directly through the TCNS online consultation system. As of this date, no reply has been received from this tribe through the TCNS online consultation system, and AEC does not anticipate receiving one.

AEC forwarded Site information to the Eastern Shawnee Tribe of Oklahoma on May 21, 2021. A response was received from the Eastern Shawnee Tribe of Oklahoma on May 10, 2021, indicating that the project will have No Adverse Effect on properties of sacred and/or cultural significance to the Tribe.

AEC forwarded the Wyandotte Nation additional Site information on May 21, 2021. Thirty-five days passed with no response from the Wyandotte Nation. Thus, the Wyandotte Nation was referred to the FCC on June 24, 2021. The FCC's final contact was sent on July 1, 2021. An additional fifteen days passed with no response from the Wyandotte Nation, and thus concurrence was assumed.

AEC forwarded Site information to the Shawnee Tribe on May 21, 2021. Thirty-five days passed with no response from the Shawnee Tribe. Thus, the Shawnee Tribe was referred to the FCC on June 24, 2021. The FCC's final contact was sent on July 1, 2021. An additional fifteen days passed with no response from the Shawnee Tribe, and thus concurrence was assumed.

The Delaware Tribe of Indians of Oklahoma has stated that they do not wish to consult on projects that they do not reply to directly through the TCNS online consultation system. As of this date, no reply has been received from this tribe through the TCNS online consultation system, and AEC does not anticipate receiving one.

AEC forwarded the Rappahannock Tribe (Cultural Heritage Partners) additional Site information on May 21, 2021. Thirty-five days passed with no response from the Rappahannock Tribe. Thus, the Rappahannock Tribe was referred to the FCC on June 24, 2021. The FCC's final contact was sent on July 1, 2021. An additional fifteen days passed with no response from the Rappahannock Tribe, and thus concurrence was assumed.

Based on stated exclusions on the TCNS system or correspondence with tribal representatives, no further consultation with native tribes is considered warranted. However, it should be noted that if human remains or funerary objects are uncovered during construction, all work should be stopped and the appropriate tribes should be contacted.

Section 106 SHPO Submittal

On May 20, 2021, AEC sent a Report of Findings to the Maryland Historical Trust (MD SHPO), on behalf of T-Mobile, with a finding of *No Effect* in the Area of Potential Effects (APE) for Direct Effects and *No Adverse Effect* in the APE for Indirect/Visual Effects via the FCC's E-106 online system. AEC received a response from the MD SHPO on June 7, 2021, indicating concurrence with the finding of *No Effect* for Direct Effects and *No Adverse Effect* for Indirect/Visual Effects.

Conclusion

Based on the tribal responses and the determination of the MD SHPO, no additional Section 106 evaluation is necessary for this undertaking. It should be noted that if significant changes are made to the proposed installation plan, further Section 106 review may be necessary.

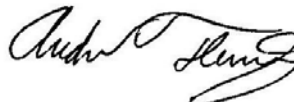
A copy of AEC's pertinent Section 106 submittal documentation is included as attachments to this document. If you have any questions regarding this letter report, please contact the undersigned at (301) 776-0500.

Sincerely,

ADVANTAGE ENVIRONMENTAL CONSULTANTS, LLC



Catherine Moses
Staff Scientist



Andrew L. Fleming
Senior Project Manager

Attachments

ATTACHMENT 1

**MD SHPO Correspondence and
AEC's Section 106 Submittal Documentation**

From: towernotifyinfo@fcc.gov
To: cmoses@aec-env.com
Subject: Section 106 Notification of SHPO/THPO Concurrence- Email ID #5888310
Date: Monday, June 7, 2021 1:15:43 PM

This is to notify you that the Lead SHPO/THPO has concurred with the following filing:

Date of Action: 06/07/2021

Direct Effect: No Historic Properties in Area of Potential Effects (APE)

Visual Effect: No Adverse Effect on Historic Properties in APE

Comment Text: MHT Log No. 202102067

File Number: 0009560209

TCNS Number: 230708

Purpose: Collocation Submission Packet

Has the Communications Tower or Non-Tower Structure been the subject of SHPO/THPO review? Yes

Notification Date: 7AM EST 05/24/2021

Applicant: T-Mobile Northeast, LLC

Consultant: Advantage Environmental Consultants, LLC

Positive Train Control Filing Subject to Expedited Treatment Under Program Comment: No

Site Name: 7WAS039C

Site Address: Edmonston Road

Detailed Description of Project: 7WAS039C - T-Mobile proposes modifications to an existing telecommunications facility. No ground disturbance is proposed for this project.

Site Coordinates: 39-1-1.2 N, 76-51-39.1 W

City: Greenbelt

County: PRINCE GEORGE'S

State:MD

Lead SHPO/THPO: Maryland Historical Trust

NOTICE OF FRAUDULENT USE OF SYSTEM, ABUSE OF PASSWORD AND RELATED MISUSE

Use of the Section 106 system is intended to facilitate consultation under Section 106 of the National Historic Preservation Act and may contain information that is confidential, privileged or otherwise protected from disclosure under applicable laws. Any person having access to Section 106 information shall use it only for its intended purpose. Appropriate action will be taken with respect to any misuse of the system.

Notification Date: 7AM EST 05/24/2021

Collocation ("CO") Submission Packet

See instructions for

File Number: 0009560209

public burden estimates

General Information

1) (Select only one) (NE) NE – New UA – Update of Application WD – Withdrawal of Application	
2) If this application is for an Update or Withdrawal, enter the file number of the pending application currently on file.	File Number:

Applicant Information

3) FCC Registration Number (FRN): 0018712745
4) Name: T-Mobile Northeast, LLC

Contact Name

5) First Name: Robert	6) MI:	7) Last Name: Neely	8) Suffix: 499
9) Title:			

Contact Information

10) P.O. Box: 20705	And /Or	11) Street Address: 12050 Baltimore Avenue	
12) City: Beltsville		13) State: MD	14) Zip Code: 20705
15) Telephone Number: (410)499-8912		16) Fax Number:	
17) E-mail Address: robert.neely1l@T-mobile.com			

Consultant Information

18) FCC Registration Number (FRN): 0013100953
19) Name: Advantage Environmental Consultants, LLC

Principal Investigator

20) First Name: David	21) MI:	22) Last Name: Berg	23) Suffix:
24) Title:			

Principal Investigator Contact Information

25) P.O. Box:	And /Or	26) Street Address: 8610 Washington Boulevard, Suite 217 Suite 217	
27) City: Jessup		28) State: MD	29) Zip Code: 20794
30) Telephone Number: (301)776-0500		31) Fax Number:	
32) E-mail Address: cmoses@aec-env.com			

Professional Qualification

33) Does the Principal Investigator satisfy the Secretary of the Interior's Professional Qualification Standards?	(☒) <u>Y</u> es () <u>N</u> o
34) Areas of Professional Qualification: () Archaeologist (☒) Architectural Historian () Historian () Architect () Other (Specify) _____	

Additional Staff

35) Are there other staff involved who meet the Professional Qualification Standards of the Secretary of the Interior?	() <u>Y</u> es (☒) <u>N</u> o
--	--

If "YES," complete the following:

36) First Name:	37) MI:	38) Last Name:	39) Suffix:
40) Title:			
41) Areas of Professional Qualification: () Archaeologist () Architectural Historian () Historian () Architect () Other (Specify) _____			

Site Information

Tower Construction Notification System

1) TCNS Notification Number: 230708

Site Information

2) Positive Train Control Filing Subject to Expedited Treatment Under Program Comment: () Yes (**X**) No

3) Site Name: **7WAS039C**

4) Site Address: **Edmonston Road**

5) Detailed Description of Project:

7WAS039C - T-Mobile proposes modifications to an existing telecommunications facility. No ground disturbance is proposed for this project.

6) City: **Greenbelt**

7) State: **MD**

8) Zip Code: **20770**

9) County/Borough/Parish: **PRINCE GEORGE'S**

10) Nearest Crossroads: **Baltimore Washington Parkway and Beaver Dam Road**

11) **NAD 83** Latitude (DD-MM-SS.S): **39-01-01.2** (**X**) N or () S

12) **NAD 83** Longitude (DD-MM-SS.S): **076-51-39.1** () E or (**X**) W

Collocation Information

13) Antennas will be located on (Select One):

() Communications Tower (Select One): () Guyed Lattice Tower () Self-supporting Lattice () Monopole

() Other (Describe): _____

(**X**) Non-Tower Structure (Describe Structure): **Any type of Tank (Water, Gas, etc)**

14) Tower height above ground level (including top-mounted attachments such as lightning rods): **46.3** () Feet (**X**) Meters

15) Description of Antennas to be collocated (e.g. number, type, shape, dimensions, color):

replacing six existing antennas (three 56-inch tall by 12-inch wide, three 96.6-inch tall by 11.9-inch wide) with six new antennas (three 95.9-inch tall by 24-inch wide, and three 33.1-inch tall by 20.5-inch wide) on existing mounts

16) Will the Antennas be placed at multiple levels on the structure?

() Yes (**X**) No

If "Yes", describe placement:

If "No", specify the height of collocation above ground: **135.0** (**X**) Feet () Meters

17) Structure Completion Year: **1935** (YYYY)

(**X**) Check here if your year provided is approximate.

18) Has the Communications Tower or Non-Tower Structure been the subject of SHPO/THPO review? If "Yes", specify the following: Company that made the submission: <u>Advantage Environmental Consultants</u> Date submitted: <u>09/11/2019</u> SHPO/THPO Reference Number: <u>0008714731</u>	(☒) <u>Y</u> es () <u>N</u> o
19) Is the Communications Tower or Non-Tower Structure eligible for listing on the National Register?	() <u>Y</u> es (☒) <u>N</u> o

Collocation Status

20) Current Collocation Status (Select One): (☒) Construction and/or installation has not yet commenced () Construction and/or installation has commenced, but is not completed Construction and/or installation commenced on: _____ () Construction has been completed Construction and/or installation commenced on: _____ Construction and/or installation completed on: _____
--

Determination of Effect

21) Direct Effects (Select One): (☒) No Historic Properties in Area of Potential Effects (APE) () No Effect on Historic Properties in APE () No Adverse Effect on Historic Properties in APE () Adverse Effect on one or more Historic Properties in APE
22) Visual Effects (Select One): () No Historic Properties in Area of Potential Effects (APE) () No Effect on Historic Properties in APE (☒) No Adverse Effect on Historic Properties in APE () Adverse Effect on one or more Historic Properties in APE

Tribal/NHO Involvement

1) Have Indian Tribes or Native Hawaiian Organizations (NHOs) been identified that may attach religious and cultural significance to historic properties which may be affected by the undertaking within the APEs for direct and visual effects?		(☒) <u>Yes</u> () <u>No</u>
2a) Tribes/NHOs contacted through TCNS Notification Number: <u>230708</u>		Number of Tribes/NHOs: <u>7</u>
2b) Tribes/NHOs contacted through an alternate system:		Number of Tribes/NHOs: <u>0</u>

Tribe/NHO Contacted Through TCNS

3) Tribe/NHO FRN:
4) Tribe/NHO Name: Bad River Band of Lake Superior Tribe of Chippewa Indians

Contact Name

5) First Name: Edith	6) MI:	7) Last Name: Leoso	8) Suffix:
9) Title: THPO			

Dates & Response

10) Date Contacted <u>05/05/2021</u>	11) Date Replied _____
(☒) No Reply	
() Replied/No Interest	
() Replied/Have Interest	
() Replied/Other	

Tribe/NHO Contacted Through TCNS

3) Tribe/NHO FRN:
4) Tribe/NHO Name: Cultural Heritage Partners

Contact Name

5) First Name: Ellen	6) MI:	7) Last Name: Chapman	8) Suffix:
9) Title: Program Manager			

Dates & Response

10) Date Contacted <u>05/05/2021</u>	11) Date Replied _____
(☒) No Reply	
() Replied/No Interest	
() Replied/Have Interest	
() Replied/Other	

Tribal/NHO Involvement

1) Have Indian Tribes or Native Hawaiian Organizations (NHOs) been identified that may attach religious and cultural significance to historic properties which may be affected by the undertaking within the APEs for direct and visual effects?		(☒) <u>Yes</u> (☐) <u>No</u>
2a) Tribes/NHOs contacted through TCNS Notification Number: <u>230708</u>		Number of Tribes/NHOs: <u>7</u>
2b) Tribes/NHOs contacted through an alternate system:		Number of Tribes/NHOs: <u>0</u>

Tribe/NHO Contacted Through TCNS

3) Tribe/NHO FRN:
4) Tribe/NHO Name: Delaware Nation

Contact Name

5) First Name: Erin	6) MI:	7) Last Name: Paden	8) Suffix:
9) Title: Historic Preservation Director			

Dates & Response

10) Date Contacted <u>05/05/2021</u>	11) Date Replied _____
(☒) No Reply	
(☐) Replied/No Interest	
(☐) Replied/Have Interest	
(☐) Replied/Other	

Tribe/NHO Contacted Through TCNS

3) Tribe/NHO FRN:
4) Tribe/NHO Name: Delaware Tribe of Indians of Oklahoma

Contact Name

5) First Name: Dr. Brice	6) MI: M	7) Last Name: Obermeyer	8) Suffix:
9) Title:			

Dates & Response

10) Date Contacted <u>05/05/2021</u>	11) Date Replied _____
(☒) No Reply	
(☐) Replied/No Interest	
(☐) Replied/Have Interest	
(☐) Replied/Other	

Tribal/NHO Involvement

1) Have Indian Tribes or Native Hawaiian Organizations (NHOs) been identified that may attach religious and cultural significance to historic properties which may be affected by the undertaking within the APEs for direct and visual effects?		(☒) <u>Yes</u> (☐) <u>No</u>
2a) Tribes/NHOs contacted through TCNS Notification Number: <u>230708</u>		Number of Tribes/NHOs: <u>7</u>
2b) Tribes/NHOs contacted through an alternate system:		Number of Tribes/NHOs: <u>0</u>

Tribe/NHO Contacted Through TCNS

3) Tribe/NHO FRN:
4) Tribe/NHO Name: Eastern Shawnee Tribe of Oklahoma

Contact Name

5) First Name: Kelly	6) MI:	7) Last Name: Nelson	8) Suffix:
9) Title: Cell Tower Coordinator			

Dates & Response

10) Date Contacted <u>05/06/2021</u>	11) Date Replied <u>05/10/2021</u>
(☐) No Reply	
(☐) Replied/No Interest	
(☐) Replied/Have Interest	
(☒) Replied/Other	

Tribe/NHO Contacted Through TCNS

3) Tribe/NHO FRN:
4) Tribe/NHO Name: Shawnee Tribe

Contact Name

5) First Name: Kim	6) MI:	7) Last Name: Jumper	8) Suffix:
9) Title: Cell t			

Dates & Response

10) Date Contacted <u>05/05/2021</u>	11) Date Replied _____
(☒) No Reply	
(☐) Replied/No Interest	
(☐) Replied/Have Interest	
(☐) Replied/Other	

Tribal/NHO Involvement

1) Have Indian Tribes or Native Hawaiian Organizations (NHOs) been identified that may attach religious and cultural significance to historic properties which may be affected by the undertaking within the APEs for direct and visual effects?	(☒) <u>Y</u> es () <u>N</u> o
2a) Tribes/NHOs contacted through TCNS Notification Number: <u>230708</u> Number of Tribes/NHOs: <u>7</u>	
2b) Tribes/NHOs contacted through an alternate system: Number of Tribes/NHOs: <u>0</u>	

Tribe/NHO Contacted Through TCNS

3) Tribe/NHO FRN:
4) Tribe/NHO Name: Wyandotte Nation

Contact Name

5) First Name: Sherri	6) MI:	7) Last Name: Clemons	8) Suffix:
9) Title: THPO			

Dates & Response

10) Date Contacted <u>05/05/2021</u>	11) Date Replied _____
(☒) No Reply	
() Replied/No Interest	
() Replied/Have Interest	
() Replied/Other	

Other Tribes/NHOs Contacted

Tribe/NHO Information

1) FCC Registration Number (FRN):
2) Name:

Contact Name

3) First Name:	4) MI:	5) Last Name:	6) Suffix:
7) Title:			

Contact Information

8) P.O. Box:	And /Or	9) Street Address:	
10) City:		11) State:	12) Zip Code:
13) Telephone Number:		14) Fax Number:	
15) E-mail Address:			
16) Preferred means of communication: () E-mail () Letter () Both			

Dates & Response

17) Date Contacted _____	18) Date Replied _____
() No Reply	
() Replied/No Interest	
() Replied/Have Interest	
() Replied/Other	

Historic Properties

Properties Identified

1) Have any historic properties been identified within the APEs for direct and visual effect?	(☒) <u>Y</u> es () <u>N</u> o
2) Has the identification process located archaeological materials that would be directly affected, or sites that are of cultural or religious significance to Tribes/NHOs?	() <u>Y</u> es (☒) <u>N</u> o
3) Are there more than 10 historic properties within the APEs for direct and visual effect? If "Yes", you are required to attach a Cultural Resources Report in lieu of adding the Historic Property below.	() <u>Y</u> es (☒) <u>N</u> o

Historic Property

4) Property Name: Beltsville Agricultural Resource Center (BARC)
5) SHPO Site Number: PG: 62-14

Property Address

6) Street Address: 10300 Baltimore Ave		
7) City: Beltsville	8) State: MD	9) Zip Code: 20770
10) County/Borough/Parish: PRINCE GEORGE'S		

Status & Eligibility

11) Is this property listed on the National Register? Source: _____	() <u>Y</u> es (☒) <u>N</u> o
12) Is this property eligible for listing on the National Register? Source: <u>Maryland Medusa Website</u>	(☒) <u>Y</u> es () <u>N</u> o
13) Is this property a National Historic Landmark?	() <u>Y</u> es (☒) <u>N</u> o

14) Direct Effects (Select One): (☒) No Effect on this Historic Property in APE () No Adverse Effect on this Historic Property in APE () Adverse Effect on this Historic Property in APE
15) Visual Effects (Select One): () No Effect on this Historic Property in APE (☒) No Adverse Effect on this Historic Property in APE () Adverse Effect on this Historic Property in APE

Historic Properties

Properties Identified

1) Have any historic properties been identified within the APEs for direct and visual effect?	(☒) <u>Y</u> es () <u>N</u> o
2) Has the identification process located archaeological materials that would be directly affected, or sites that are of cultural or religious significance to Tribes/NHOs?	() <u>Y</u> es (☒) <u>N</u> o
3) Are there more than 10 historic properties within the APEs for direct and visual effect? If "Yes", you are required to attach a Cultural Resources Report in lieu of adding the Historic Property below.	() <u>Y</u> es (☒) <u>N</u> o

Historic Property

4) Property Name: Baltimore-Washington Parkway
5) SHPO Site Number: PG: 69-26

Property Address

6) Street Address: na		
7) City: Beltsville	8) State: MD	9) Zip Code: 20770
10) County/Borough/Parish: PRINCE GEORGE'S		

Status & Eligibility

11) Is this property listed on the National Register? Source: <u>Maryland Medusa website</u>	(☒) <u>Y</u> es () <u>N</u> o
12) Is this property eligible for listing on the National Register? Source: _____	() <u>Y</u> es (☒) <u>N</u> o
13) Is this property a National Historic Landmark?	() <u>Y</u> es (☒) <u>N</u> o

14) Direct Effects (Select One): (☒) No Effect on this Historic Property in APE () No Adverse Effect on this Historic Property in APE () Adverse Effect on this Historic Property in APE
15) Visual Effects (Select One): () No Effect on this Historic Property in APE (☒) No Adverse Effect on this Historic Property in APE () Adverse Effect on this Historic Property in APE

Local Government Involvement

Local Government Agency

1) FCC Registration Number (FRN):
2) Name: Prince Georges County Planning Department

Contact Name

3) First Name: Howard	4) MI:	5) Last Name: Berger	6) Suffix:
7) Title:			

Contact Information

8) P.O. Box:	And /Or	9) Street Address: 14741 Governor Oden Bowie Drive	
10) City: Upper Marlboro		11) State: MD	12) Zip Code: 20772
13) Telephone Number: (301)952-3594		14) Fax Number:	
15) E-mail Address: howard.berger@ppd.mncppc.org			
16) Preferred means of communication: () E-mail () Letter (X) Both			

Dates & Response

17) Date Contacted 05/10/2021	18) Date Replied _____
(X) No Reply	
() Replied/No Interest	
() Replied/Have Interest	
() Replied/Other	

Additional Information

19) Information on local government's role or interest (optional):
--

Other Consulting Parties

Other Consulting Parties Contacted

1) Has any other agency been contacted and invited to become a consulting party?	(☒) <u>Yes</u> () <u>No</u>
--	---

Consulting Party

2) FCC Registration Number (FRN):
3) Name: Prince Georges County Historical Society

Contact Name

4) First Name: na	5) MI:	6) Last Name: na	7) Suffix:
8) Title:			

Contact Information

9) P.O. Box: 1513	And /Or	10) Street Address:	
11) City: Upper Marlboro		12) State: MD	13) Zip Code: 20773
14) Telephone Number: (123)456-7890		15) Fax Number:	
16) E-mail Address: info@pghistory.org			
17) Preferred means of communication: () E-mail () Letter (☒) Both			

Dates & Response

18) Date Contacted 05/10/2021	19) Date Replied _____
(☒) No Reply	
() Replied/No Interest	
() Replied/Have Interest	
() Replied/Other	

Additional Information

20) Information on other consulting parties' role or interest (optional):

Designation of SHPO/THPO

1) Designate the Lead State Historic Preservation Officer (SHPO) or Tribal Historic Preservation Officer (THPO) based on the location of the tower/collocation.

SHPO/THPO

Name: **Maryland Historical Trust**

2) You may also designate up to three additional SHPOs/THPOs if the APEs include multiple states. If the APEs include other countries, enter the name of the National Historic Preservation Agency and any state and provincial Historic Preservation Agency

SHPO/THPO Name: _____

SHPO/THPO Name: _____

SHPO/THPO Name: _____

Certification

I certify that all representations on this FCC Form 621 Submission Packet and the accompanying attachments are true, correct, and complete.

Party Authorized to Sign

First Name: **Catherine**

MI:

Last Name: **Moses**

Suffix:

Signature: **Catherine Moses**

Date: **05/21/2021**

FAILURE TO SIGN THIS APPLICATION MAY RESULT IN DISMISSAL OF THE APPLICATION AND FORFEITURE OF ANY FEES PAID.

WILLFUL FALSE STATEMENTS MADE ON THIS FORM OR ANY ATTACHMENTS ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. Code, Title 18, Section 1001) AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).

Attachments :

Type	Description	Date Entered
Resumes/Vitae	Attachment 1 - Resume	05/21/2021
Additional Site Information	Attachment 2 - SOW	05/21/2021
Tribal/NHO Involvement	Attachment 3 - NOO	05/21/2021
Local Government Involvement	Attachment 4 - Local Gov	05/21/2021
Public Involvement	Attachment 5 - Public Notice	05/21/2021
Other	Attachment 6 - Historical Societies	05/21/2021
Area of Potential Effects	Attachment 7 - APE	05/21/2021
Historic Properties for Visual Effects	Attachment 8 - Visual Effects	05/21/2021
Historic Properties for Direct Effects	Attachment 9 - Direct Effects	05/21/2021
Cultural Resources Report	Attachment 10 - SOE	05/21/2021
Photographs	Attachment 11 - Photos	05/21/2021
Map Documents	Attachment 12 - Maps	05/21/2021

Attachment 1. Resumes/Vitae

Provide a current copy of the resume or curriculum vitae for the Principal Investigator and any researcher or other person who contributed to, reviewed, or provided significant input into the research, analysis, writing or conclusions presented in the submission packet for the proposed facility.

Please see the attached resumes of the Principal Investigator and other contributing personnel.

Information

[illegible]

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[illegible][illegible]

Attachment 2. Additional Site Information

Describe any additional structures, access roads, utility lines, fences, easements or other construction planned for the site in conjunction with the proposed collocation and related facilities. Use this attachment to provide additional details needed to provide a full and accurate description of any structural alterations, additions, or other construction activities that will take place to complete the collocation.

T-Mobile proposes the modification of an existing telecommunications facility on the existing water tank located at the above-referenced coordinates. T-Mobile proposes replacing six existing antennas (three 56-inch tall by 12-inch wide, three 96.6-inch tall by 11.9-inch wide) with six new antennas (three 95.9-inch tall by 24-inch wide, and three 33.1-inch tall by 20.5-inch wide) on existing mounts. T-Mobile also proposes the addition of three new RRUs and two replacement equipment cabinets. Please note that no ground disturbance is proposed for this project. Please refer to the construction drawings included in this attachment.

PROJECT INFORMATION

SITE NAME:	USDA - LAUREL
SITE NUMBER:	7WAS039C
SITE ADDRESS:	EDMONSTON ROAD GREENBELT, MARYLAND 20770
COUNTY	PRINCE GEORGE'S COUNTY
ZONING:	R-O-S
LATITUDE:	39.01700000
LONGITUDE:	-76.86086110
TYPE OF SITE:	WATER TANK
STRUCTURE HEIGHT:	152'-2" AGL (TOP OF WATER TANK)
ANTENNA CENTER:	135' AGL
GROUND ELEVATION:	171' (NAVD 88)
BUILDING OWNER NAME:	UNITED STATES OF AMERICA
BUILDING OWNER ADDRESS:	GSA OFFICE COMM PUB BLDG SE 18TH & F STREETS NORTHWEST WASHINGTON DC, 20405-0001
APPLICANT:	T-MOBILE NORTHEAST, LLC. 12050 BALTIMORE AVENUE BELTSVILLE, MARYLAND 20705
APPLICANT PHONE:	(240) 264-8600
APPLICANT FAX:	(240) 264-8610
BUILDING CODES:	2015 NFPA 101 LIFE SAFETY CODE AND SUBTITLE 11 PRINCE GEORGE'S COUNTY FIRE SAFETY CODE 2015 INTERNATIONAL BUILDING CODE AND SUBTITLE 4 PRINCE GEORGE'S COUNTY BUILDING CODE
ELECTRICAL CODE:	2015 INTERNATIONAL EXISTING BUILDING CODE (IEBC) NFPA- 2014 70 NATIONAL ELECTRICAL CODE & SUBTITLE 9 PRINCE GEORGE'S COUNTY BUILDING CODE

PROJECT DIRECTORY

ENGINEERING FIRM:
CENTERLINE COMMUNICATIONS
750 WEST CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHILIP BURTNER (610) 730-5430

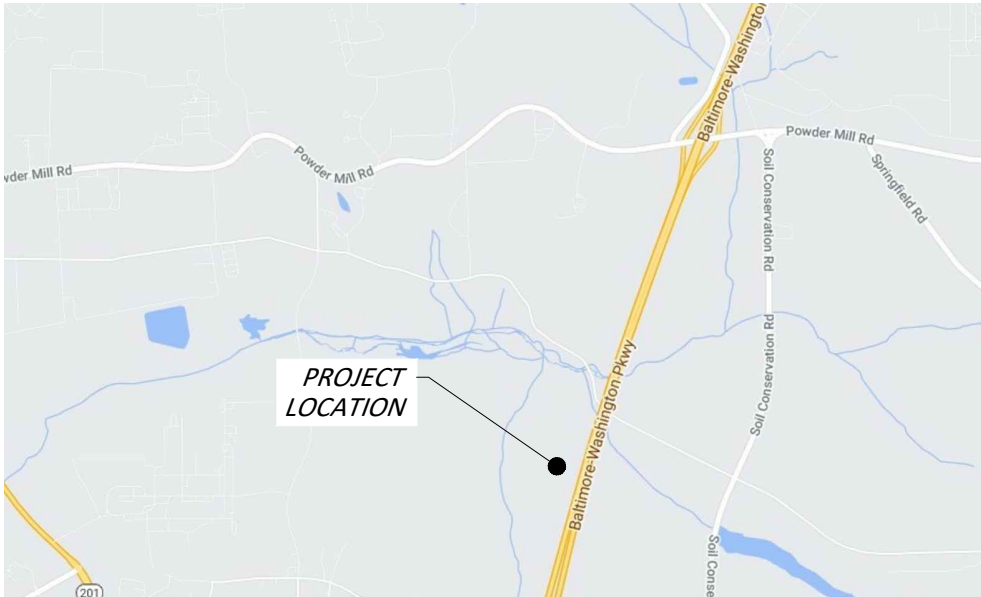
CARRIER:
T-MOBILE NORTHEAST, LLC.
12050 BALTIMORE AVENUE
BELTSVILLE, MARYLAND 20705
PHONE: (240) 264-8600
FAX: (240) 264-8610



Know what's below.
Call before you dig.



T - Mobile
NORTHEAST LLC



VICINITY MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE

SITE NAME: USDA - LAUREL
SITE ID: 7WAS039C
ADDRESS: EDMONSTON ROAD
GREENBELT, MARYLAND 20770

TECHNOLOGY: 67D5A997DB OUTDOOR
MODIFICATION: L600_CMP5_ANCHOR_PHASE 3

GENERAL NOTES

1. THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF T-MOBILE. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSE OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.
2. THE FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY ACCESSED BY TRAINED TECHNICIANS FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE DOES NOT REQUIRE ANY WATER OR SANITARY SEWER SERVICE. THE FACILITY IS NOT GOVERNED BY REGULATIONS REQUIRING PUBLIC ACCESS PER ADA REQUIREMENTS.
3. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE T-MOBILE REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

SCOPE OF WORK

1. REMOVE AND REPLACE SIX EXISTING ANTENNAS W/SIX NEW ANTENNAS
2. REMOVE AND REPLACE THREE EXISTING RRU's W/SIX NEW RRU's
3. INSTALL ONE NEW 6160 AC ENCLOSURE
4. INSTALL ONE NEW B160 BATTERY ENCLOSURE
5. INSTALL SIX NEW 6X12 HYBRID CABLES
6. REMOVE ALL UNUSED CABLES AND EQUIPMENT

DRAWING INDEX

NO.	DESCRIPTION
T-1	TITLE SHEET
GN-1	GENERAL NOTES, RF NOTES, CABLING NOTES
A-1	SITE PLAN
A-2	COMPOUND PLAN
A-3	EQUIPMENT LAYOUT PLANS
A-4	SOUTH ELEVATION
A-5	ANTENNA PLANS & SCHEDULE
A-6	ANTENNA & RRU MOUNTING DETAILS
A-7	EQUIPMENT DETAILS
G-1	GROUNDING DETAILS & ONE LINE DIAGRAM

DRAWING SCALE NOTES:

THESE DRAWINGS ARE FORMATTED TO BE FULL SIZE AT 22"x34". CONTRACTOR SHALL VERIFY ALL PLANS & EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

T - Mobile
NORTHEAST LLC

T-MOBILE NORTHEAST, LLC.
12050 BALTIMORE AVENUE
BELTSVILLE, MARYLAND 20705
PHONE: (240) 264-8600
FAX: (240) 264-8610

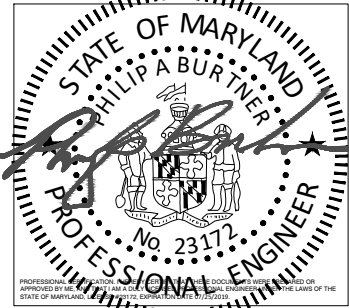


750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

REVISIONS

REV	DATE	DESCRIPTION	BY
0	04/14/21	ISSUED FOR PERMIT	RL

DESIGNED BY: RL	APPROVED BY: RC
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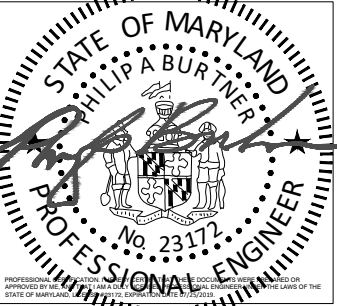


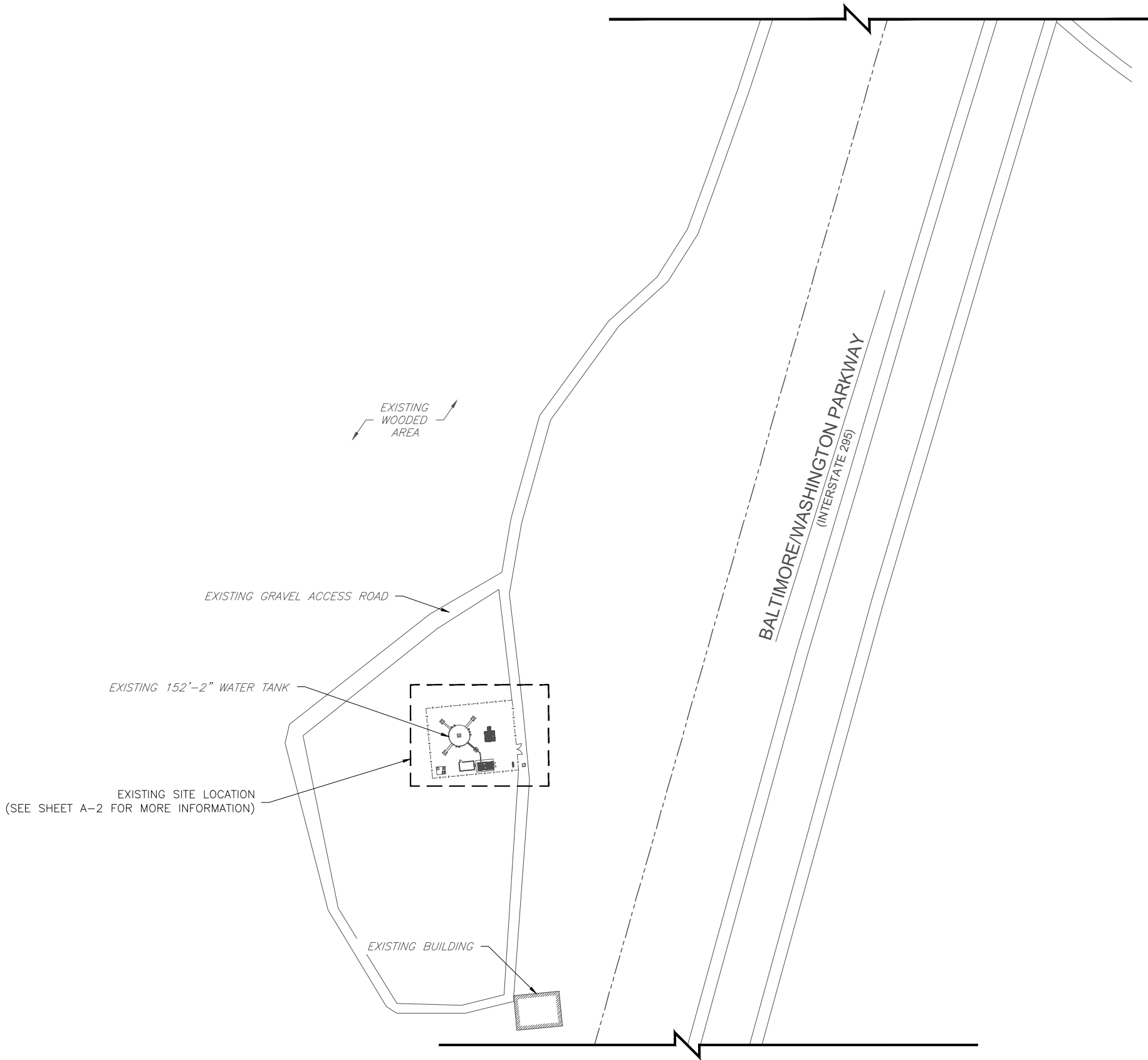
DATE: 04/14/21

PHILIP A. BURTNER, P.E.
MARYLAND PROFESSIONAL ENGINEER
LICENSE #23172

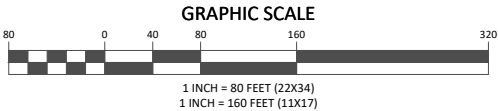
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SITE NAME: USDA - LAUREL
SITE ID: 7WAS039C
SITE ADDRESS: EDMONSTON ROAD GREENBELT, MARYLAND 20770
SHEET TITLE: TITLE SHEET
DRAWING: T-1

RF NOTES	ANTENNA CABLE & SCHEDULING NOTES	GENERAL NOTES				T - Mobile NORTHEAST LLC T-MOBILE NORTHEAST, LLC. 12050 BALTIMORE AVENUE BELTSVILLE, MARYLAND 20705 PHONE: (240) 264-8600 FAX: (240) 264-8610  750 W CENTER ST, SUITE 301 WEST BRIDGEWATER, MA 02379 PHONE: 781.713.4725 <table><tr><th colspan="4">REVISIONS</th></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td>0</td><td>04/14/21</td><td>ISSUED FOR PERMIT</td><td>RL</td></tr><tr><td>REV</td><td>DATE</td><td>DESCRIPTION</td><td>BY</td></tr></table> DESIGNED BY: RL APPROVED BY: RC  DATE: 04/14/21 PHILIP A. BURTNER, P.E. MARYLAND PROFESSIONAL ENGINEER LICENSE #23172 IT IS A VIOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER TO ALTER THIS DOCUMENT. UNLESS EXPLICITLY AGREED TO BY THE ENGINEER IN WRITING, THE ENGINEER DISCLAIMS ALL LIABILITY ASSOCIATED WITH THE REUSE, ALTERATION OR MODIFICATION OF THE CONTENTS HEREIN.	REVISIONS																																								0	04/14/21	ISSUED FOR PERMIT	RL	REV	DATE	DESCRIPTION	BY
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1 SITE PLAN
A-1
SCALE: 1" = 80' (22X34)
SCALE: 1" = 160' (11X17)



NOTES

- CONTRACTOR SHALL MAKE A UTILITY "ONE CALL" TO LOCATE ALL UTILITIES PRIOR TO EXCAVATING.
- CONSTRUCTION TO COMMENCE UPON COMPLETION OF A PASSING STRUCTURAL ANALYSIS. STRUCTURAL ANALYSIS TO BE PERFORMED BY CENTERLINE COMMUNICATIONS.
- REFERENCE STRUCTURAL ANALYSIS BY CENTERLINE COMMUNICATIONS FOR FURTHER INFORMATION REGARDING THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THIS EQUIPMENT UPGRADE.
- REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA MODELS AND SETTINGS.

SEC. 27-445.04. ANTENNAS, MONOPOLES, AND RELATED EQUIPMENT BUILDINGS FOR WIRELESS TELECOMMUNICATIONS (RESIDENTIAL).

(A) ANTENNAS, MONOPOLES, AND RELATED EQUIPMENT BUILDINGS PERMITTED (P) IN THE TABLE OF USES SHALL BE SUBJECT TO THE FOLLOWING REQUIREMENTS:

(1) THE ANTENNA SHALL COMPLY WITH THE FOLLOWING STANDARDS:

(A) UNLESS OTHERWISE PROHIBITED BELOW, IT SHALL BE CONCEALED WITHIN THE OPAQUE EXTERIOR OF A STRUCTURE OR BE ATTACHED TO A PUBLIC UTILITY, RADIO, TELEVISION, OR TELECOMMUNICATIONS BROADCASTING TOWER/MONOPOLE; A LIGHT POLE; A MULTIFAMILY DWELLING AT LEAST FIVE (5) STORIES IN HEIGHT; A STRUCTURE OWNED BY A MUNICIPALITY, THE BOARD OF EDUCATION FOR PRINCE GEORGE'S COUNTY, OR BY PRINCE GEORGE'S COUNTY; OR A STRUCTURE OWNED AND PRIMARILY USED BY A GOVERNMENT AGENCY THAT IS EXEMPT FROM THE REQUIREMENTS OF THIS SUBTITLE;

(B) IT SHALL NOT EXTEND MORE THAN FIFTEEN (15) FEET ABOVE THE HEIGHT OF THE TOWER OR STRUCTURE TO WHICH IT IS ATTACHED;

(C) IT SHALL NOT EXCEED THE FOLLOWING DIMENSIONS:

(I) TWENTY (20) FEET IN LENGTH AND SEVEN (7) INCHES IN DIAMETER FOR WHIPS;

(II) TEN (10) FEET IN LENGTH AND TWO (2) FEET IN WIDTH FOR PANELS;

(III) SEVEN (7) FEET IN LENGTH AND ONE (1) FOOT IN DIAMETER FOR CYLINDERS;

OR

(IV) SEVEN (7) FEET IN DIAMETER FOR PARABOLIC DISHES; AND

(D) ON PRIVATELY OWNED LAND, IT SHALL NOT SUPPORT LIGHTS OR SIGNS UNLESS REQUIRED FOR AIRCRAFT WARNING OR OTHER SAFETY REASONS.

(2) THE RELATED TELECOMMUNICATIONS EQUIPMENT BUILDING OR ENCLOSURE SHALL COMPLY WITH THE FOLLOWING STANDARDS:

(A) IT SHALL NOT EXCEED FIVE HUNDRED SIXTY (560) SQUARE FEET OF GROSS FLOOR AREA OR TWELVE (12) FEET IN HEIGHT;

(B) THE BUILDING OR ENCLOSURE SHALL BE SCREENED BY MEANS OF LANDSCAPING OR BERMING TO ONE HUNDRED PERCENT (100%) OPACITY FROM ANY ADJOINING LAND IN A RESIDENTIAL ZONE (OR LAND PROPOSED TO BE USED FOR RESIDENTIAL PURPOSES ON AN APPROVED BASIC PLAN FOR A COMPREHENSIVE DESIGN ZONE, OR ANY APPROVED CONCEPTUAL OR DETAILED SITE PLAN);

(C) WHEN ATTACHED TO AN EXISTING BUILDING, IT SHALL MATCH THE CONSTRUCTION MATERIAL AND COLOR(S) OF THAT BUILDING;

(D) WHEN CONSTRUCTED AS A FREESTANDING BUILDING, IT SHALL BE CONSTRUCTED OF BRICK AND ITS DESIGN SHALL COORDINATE WITH THE DESIGN OF ANY EXISTING MAIN BUILDING ON THE SAME LOT OR ON AN ADJOINING LOT; AND

(E) THE BUILDING OR ENCLOSURE SHALL BE UNMANNED, WITH INFREQUENT (FOUR (4) OR FEWER PER YEAR) VISITS BY MAINTENANCE PERSONNEL, AND WITH ACCESS AND PARKING FOR NO MORE THAN ONE (1) VEHICLE.

(3) THE MONOPOLE SHALL COMPLY WITH THE FOLLOWING STANDARDS:

(A) THE MAXIMUM HEIGHT SHALL BE ONE HUNDRED NINETY-NINE (199) FEET WHEN LOCATED ON PUBLIC PROPERTY OR ONE HUNDRED (100) FEET WHEN LOCATED ON ALL OTHER PROPERTIES;

(B) FOR PRIVATELY OWNED LAND, THE MINIMUM SETBACK FROM ALL ADJOINING LAND AND DWELLING UNITS SHALL BE EQUAL TO THE HEIGHT OF THE STRUCTURE MEASURED FROM ITS BASE; FOR PUBLICLY OWNED LAND, THE MINIMUM SETBACK SHALL BE ONE-HALF (1/2) OF THE HEIGHT OF THE STRUCTURE MEASURED FROM THE BASE TO THE ADJOINING PROPERTY LINES;

(C) ON PRIVATELY OWNED LAND, THE STRUCTURE SHALL NOT SUPPORT LIGHTS OR SIGNS UNLESS REQUIRED FOR AIRCRAFT WARNING OR OTHER SAFETY REASONS;

(D) THE STRUCTURE SHALL BE DESIGNED, GALVANIZED, AND/OR PAINTED IN A MANNER WHICH IS HARMONIOUS WITH SURROUNDING PROPERTIES;

(E) THE APPLICANT SHALL PROVIDE CERTIFICATION FROM A REGISTERED ENGINEER THAT THE STRUCTURE WILL MEET THE APPLICABLE DESIGN STANDARDS FOR WIND LOADS OF THE ELECTRONIC INDUSTRIES ASSOCIATION (EIA) FOR PRINCE GEORGE'S COUNTY; AND

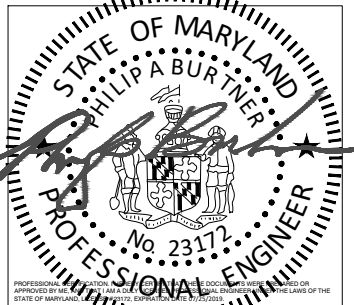
(F) ANY MONOPOLE WHICH IS NO LONGER USED FOR TELECOMMUNICATIONS PURPOSES FOR A CONTINUOUS PERIOD OF ONE (1) YEAR SHALL BE REMOVED BY THE MONOPOLE OWNER AT OWNER'S EXPENSE.

(CB-61-1988; CB-81-1993; CB-123-1994; CB-103-1997; CB-13-1998; CB-65-2000)

REVISIONS

REV	DATE	DESCRIPTION	BY
0	04/14/21	ISSUED FOR PERMIT	RL

DESIGNED BY: RL	APPROVED BY: RC
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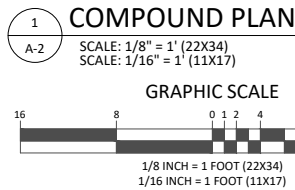
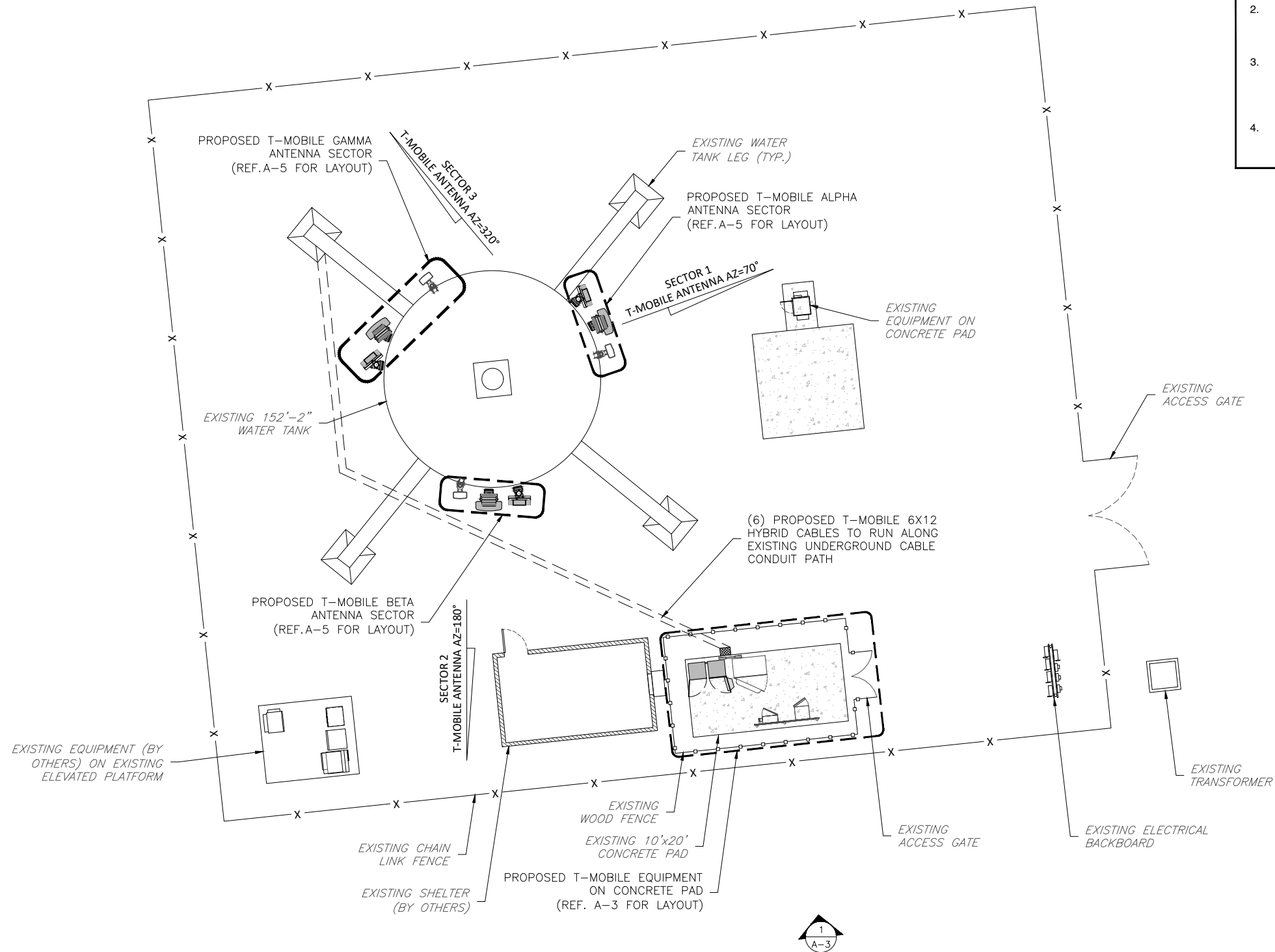
DATE: 04/14/21

PHILIP A. BURTNER, P.E.
MARYLAND PROFESSIONAL ENGINEER
LICENSE #23172

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SITE NAME:
USDA - LAUREL
SITE ID:
7WAS039C
SITE ADDRESS:
EDMONSTON ROAD GREENBELT, MARYLAND 20770

SHEET TITLE:
SITE PLAN
DRAWING:
A-1



NOTES

1. CONTRACTOR SHALL MAKE A UTILITY "ONE CALL" TO LOCATE ALL UTILITIES PRIOR TO EXCAVATING.
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3. REFERENCE STRUCTURAL ANALYSIS BY CENTERLINE COMMUNICATIONS FOR FURTHER INFORMATION REGARDING THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THIS EQUIPMENT UPGRADE.
4. REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA MODELS AND SETTINGS.

T - Mobile NORTHEAST LLC

T-MOBILE NORTHEAST, LLC.
12050 BALTIMORE AVENUE
BELTSVILLE, MARYLAND 20705
PHONE: (240) 264-8600
FAX: (240) 264-8610



750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

REVISIONS

REV	DATE	DESCRIPTION	BY
0	04/14/21	ISSUED FOR PERMIT	RL

DESIGNED BY: RL	APPROVED BY: RC
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DATE: 04/14/21

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SITE NAME: USDA - LAUREL
SITE ID: 7WAS039C
SITE ADDRESS: EDMONSTON ROAD GREENBELT, MARYLAND 20770

SHEET TITLE: COMPOUND PLAN
DRAWING: A-2



NOTES

1. CONTRACTOR SHALL MAKE A UTILITY "ONE CALL" TO LOCATE ALL UTILITIES PRIOR TO EXCAVATING.
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3. REFERENCE STRUCTURAL ANALYSIS FOR FURTHER INFORMATION REGARDING THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THIS EQUIPMENT UPGRADE.
4. REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA MODELS AND SETTINGS.

T - Mobile NORTHEAST LLC

T-MOBILE NORTHEAST, LLC.
12050 BALTIMORE AVENUE
BELTSVILLE, MARYLAND 20705
PHONE: (240) 264-8600
FAX: (240) 264-8610

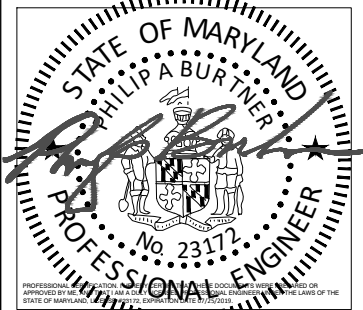


750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

REVISIONS

REV	DATE	DESCRIPTION	BY
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DESIGNED BY: RL	APPROVED BY: RC
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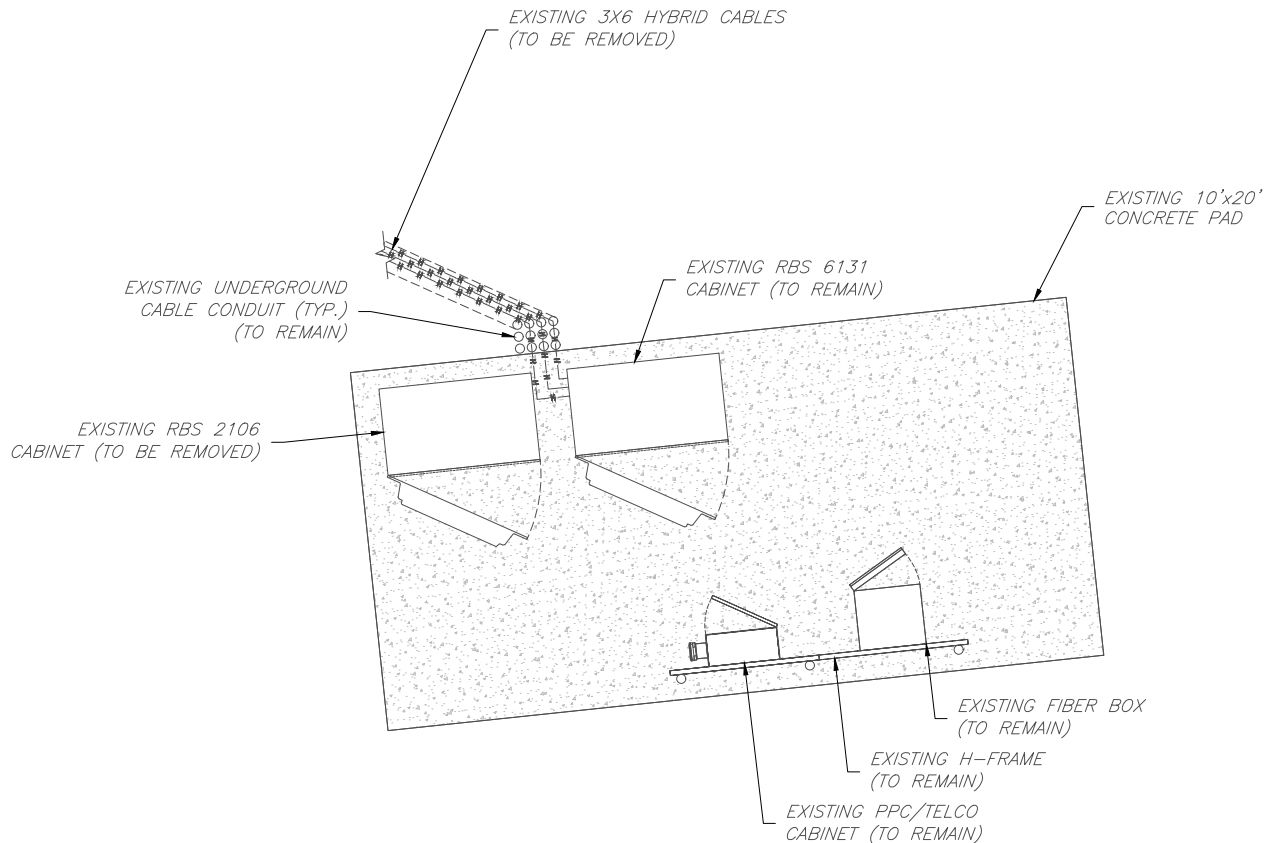
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LICENSE #23172

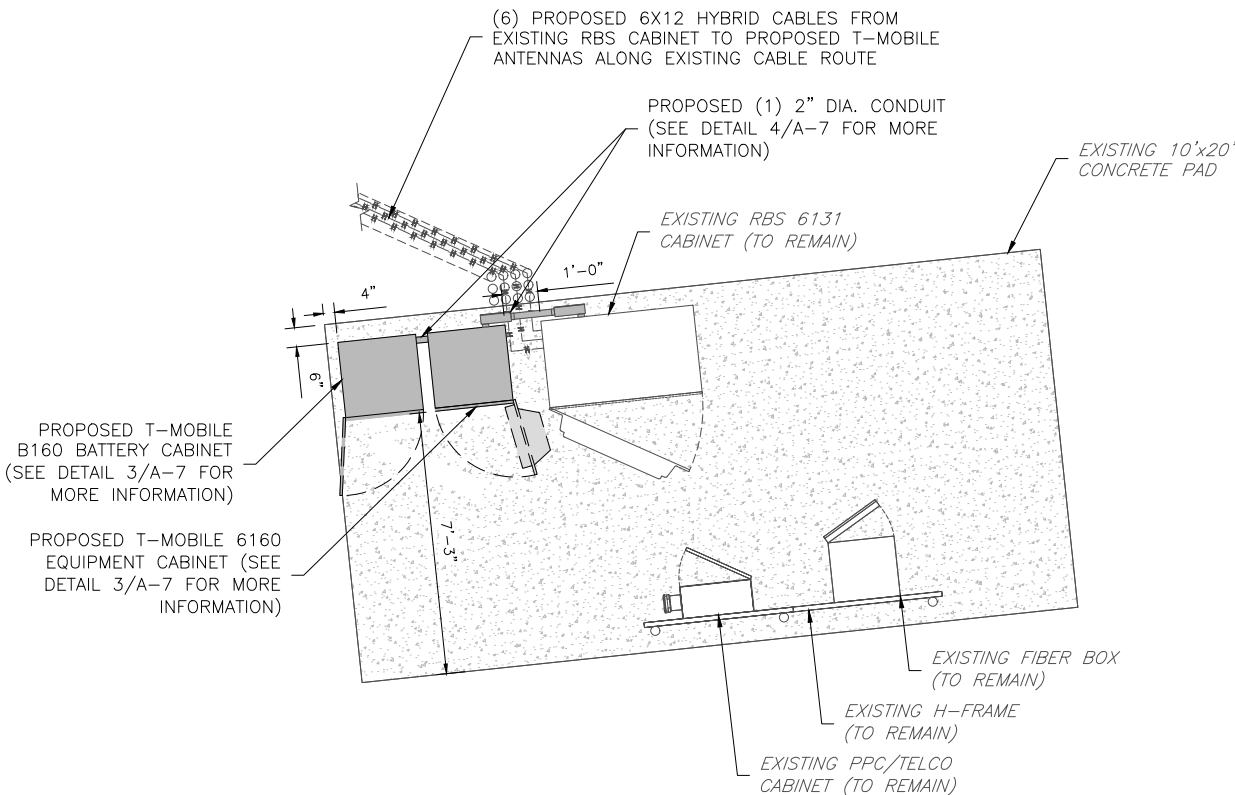
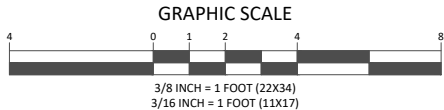
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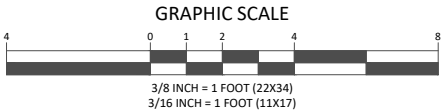
SHEET TITLE: EQUIPMENT LAYOUT PLANS
DRAWING: A-3



1
A-3
EXISTING EQUIPMENT LAYOUT
SCALE: 3/8" = 1' (22X34)
SCALE: 3/16" = 1' (11X17)



2
A-3
PROPOSED EQUIPMENT LAYOUT
SCALE: 3/8" = 1' (22X34)
SCALE: 3/16" = 1' (11X17)





TOP OF EXISTING WATER TANK
152'-2" AGL

CL OF PROPOSED T-MOBILE ANTENNAS
135'-0" AGL

PROPOSED T-MOBILE ANTENNAS
BETA SECTOR (REF. 2/A-5 FOR
LAYOUT)

EXISTING 152'-0" WATER TANK

EXISTING ANTENNAS
(BY OTHERS) (TYP.)

EXISTING ANTENNAS
(BY OTHERS) (TYP.)

EXISTING WATER TANK LEG
(TYP.)

(6) PROPOSED 6X12
HYBRID CABLES

PROPOSED T-MOBILE EQUIPMENT AREA
(REF. SHEET A-3 FOR LAYOUT)

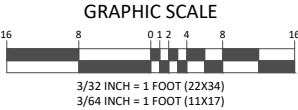
EXISTING WOODEN
FENCE

EXISTING CHAIN
LINK FENCE

EXISTING UNDERGROUND
CABLE PATH

EXISTING GRADE
0'-0"

1 SOUTH ELEVATION
A-4
SCALE: 3/32" = 1' (22X34)
SCALE: 3/64" = 1' (11X17)



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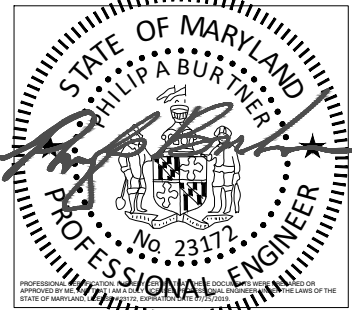


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SITE ADDRESS: EDMONSTON ROAD GREENBELT, MARYLAND 20770

SHEET TITLE: SOUTH ELEVATION
DRAWING: A-4

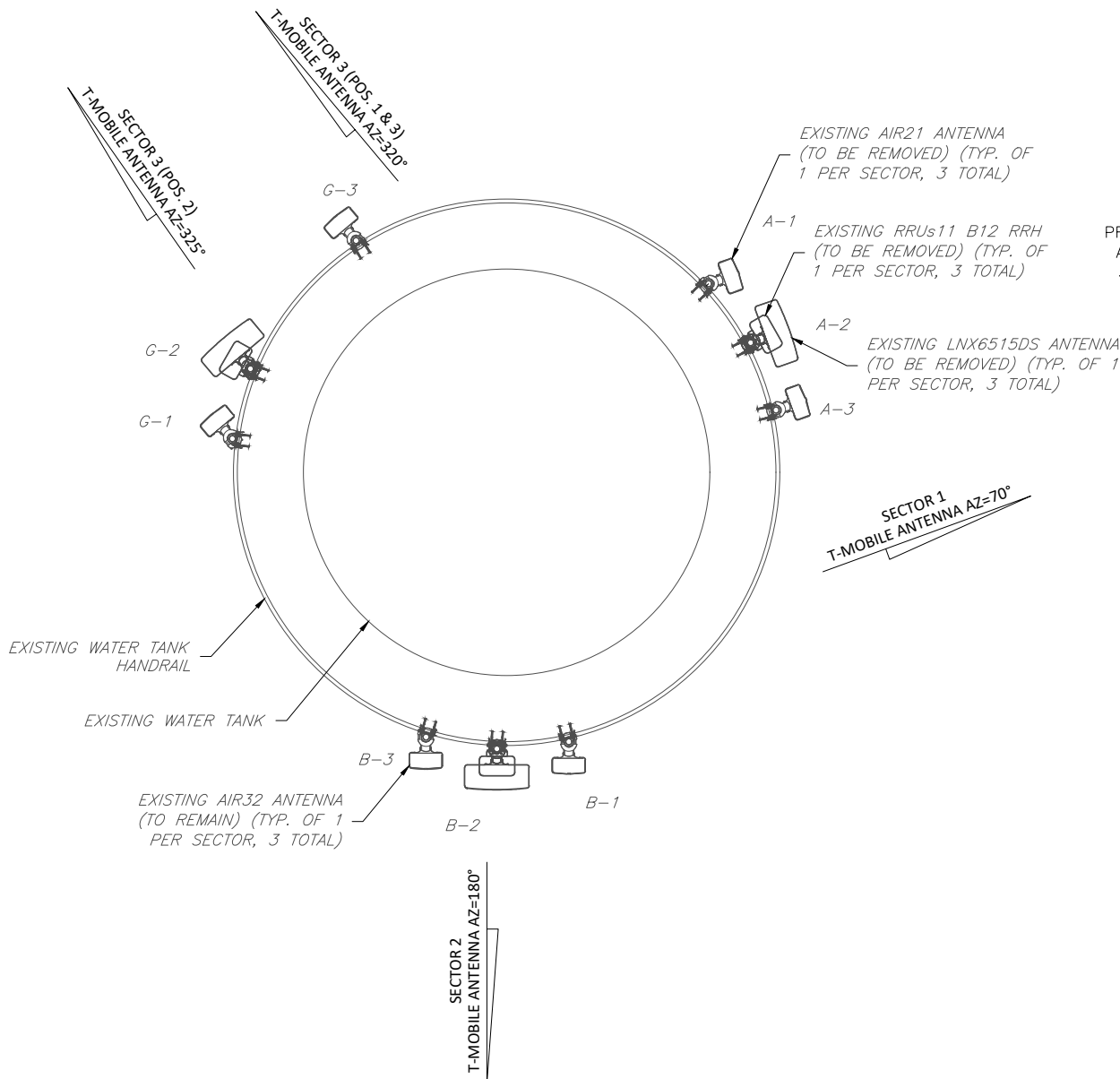


NOTES:

1. REFERENCE LATEST STRUCTURAL / MOUNT ANALYSIS BY CENTERLINE COMMUNICATIONS DATED 04/13/2021 FOR MORE STRUCTURAL INFORMATION
2. REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.
3. REMOVE ALL UNUSED CABLE, RRUS AND TMAS.

ANTENNA & CABLE SCHEDULE:

LOCATION		AZIMUTH	RAD CENTER	STATUS	TECHNOLOGY	ANTENNA MODEL NO.	MECH DOWNTILT	ELEC DOWNTILT	CABLES	DIPLEXERS	TMA/RRU	CABLE SIZE	CABLE LENGTH
ALPHA	A-1	70°	135'-0"	PROPOSED	L2500, N2500	AIR6449 B41	0°	3°/3°	N/A	N/A	N/A	6x12 HYBRID	±270'
	A-2	70°	135'-0"	PROPOSED	L600, L700, N600 U1900, L1900	APXVAALL24_43-U-NA20	0°	5°/5°/4°/4°	COAX JUMPER (X8)	N/A	RRUS 4449 B71+B85 RRUS 4415 B25	6x12 HYBRID	±270'
	A-3	70°	135'-0"	EXISTING	L2100, L1900, G1900	AIR32 B66A B2	0°	4°/4°/4°/4°	N/A	N/A	N/A	SHARED	SHARED
BETA	B-1	180°	135'-0"	PROPOSED	L2500, N2500	AIR6449 B41	0°	3°/3°	N/A	N/A	N/A	6x12 HYBRID	±270'
	B-2	180°	135'-0"	PROPOSED	L600, L700, N600 U2100, L1900	APXVAALL24_43-U-NA20	0°	7°/7°/4°/4°	COAX JUMPER (X8)	N/A	RRUS 4449 B71+B85 RRUS 4415 B25	6x12 HYBRID	±270'
	B-3	180°	135'-0"	EXISTING	L2100, L1900, G1900	AIR32 B66A B2	0°	4°/4°/4°/4°	N/A	N/A	N/A	SHARED	SHARED
GAMMA	G-1	320°	135'-0"	PROPOSED	L2500, N2500	AIR6449 B41	0°	3°/3°	N/A	N/A	N/A	6x12 HYBRID	±240'
	G-2	320°	135'-0"	PROPOSED	L600, L700, N600 U2100, L1900	APXVAALL24_43-U-NA20	0°	5°/5°/4°/4°	COAX JUMPER (X8)	N/A	RRUS 4449 B71+B85 RRUS 4415 B25	6x12 HYBRID	±240'
	G-3	320°	135'-0"	EXISTING	L2100, L1900, G1900	AIR32 B66A B2	0°	4°/4°/4°/4°	N/A	N/A	N/A	SHARED	SHARED
NOTE: DARK TEXT IN TABLE ABOVE DENOTES PROPOSED EQUIPMENT											TOTAL 6x12 HYBRID CABLE		±1560'



1
A-5
EXISTING ANTENNA PLAN
NOT TO SCALE

PROPOSED APXVAALL24_43-U-NA20 ANTENNA (TYP. OF 1 PER SECTOR, 3 TOTAL) (SEE DETAIL 1/A-7 FOR MORE INFORMATION)

PROPOSED AIR6449 ANTENNA (TYP. OF 1 PER SECTOR, 3 TOTAL) (SEE DETAIL 1/A-7 FOR MORE INFORMATION)

EXISTING WATER TANK HANDRAIL

EXISTING WATER TANK

EXISTING AIR32 ANTENNA (TO REMAIN) (TYP. OF 1 PER SECTOR, 3 TOTAL)

SECTOR 2
T-MOBILE ANTENNA AZ=180°

2
A-5
PROPOSED ANTENNA PLAN
NOT TO SCALE

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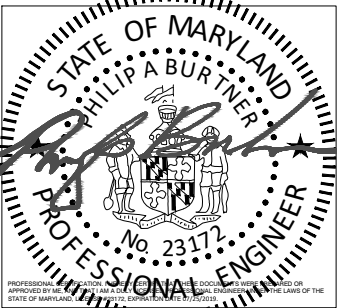


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WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

REVISIONS

REV	DATE	DESCRIPTION	BY
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DESIGNED BY: RL
APPROVED BY: RC



DATE: 04/14/21

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SITE ID:
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SHEET TITLE:
ANTENNA PLANS &
SCHEDULE

DRAWING:
A-5

T - Mobile
NORTHEAST LLC

T-MOBILE NORTHEAST, LLC.
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BELTSVILLE, MARYLAND 20705
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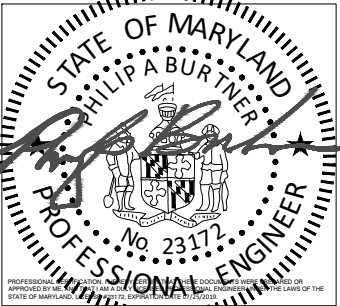


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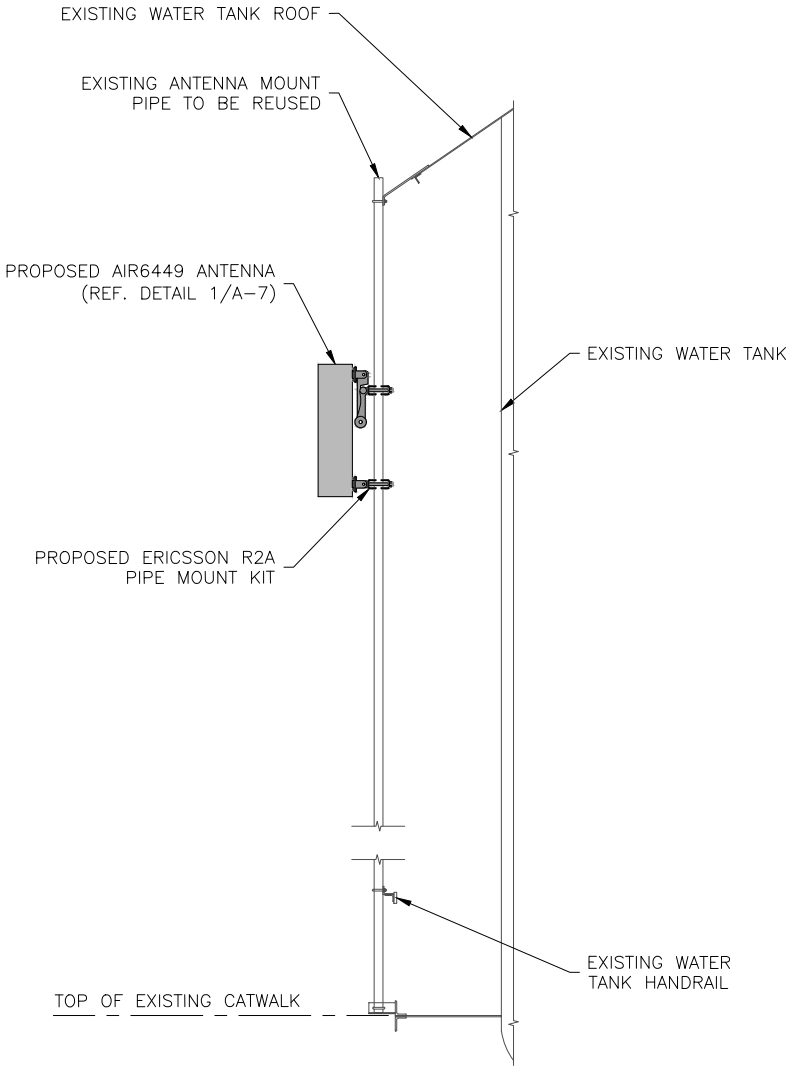
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SITE NAME: USDA - LAUREL
SITE ID: 7WAS039C
SITE ADDRESS: EDMONSTON ROAD GREENBELT, MARYLAND 20770

SHEET TITLE: ANTENNA & RRU MOUNTING DETAILS
DRAWING: A-6

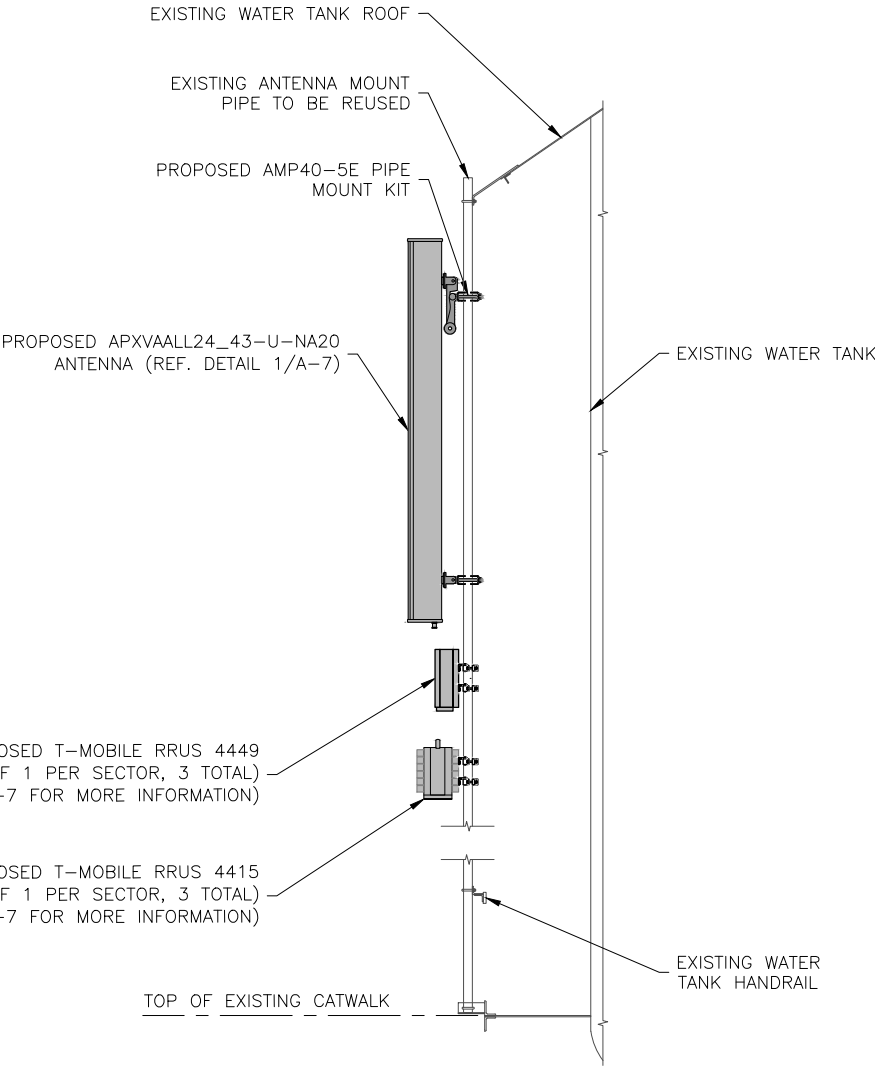
NOTES FOR ANTENNA MOUNTS:

- AIR 32: KATHREIN SCALA PIPE MOUNT KIT
P/N 85010070
- AIR6449: ERICSSON R2A PIPE MOUNT KIT
- APXVAALL24-43-U-NA20: APM40-5E PIPE MOUNT KIT



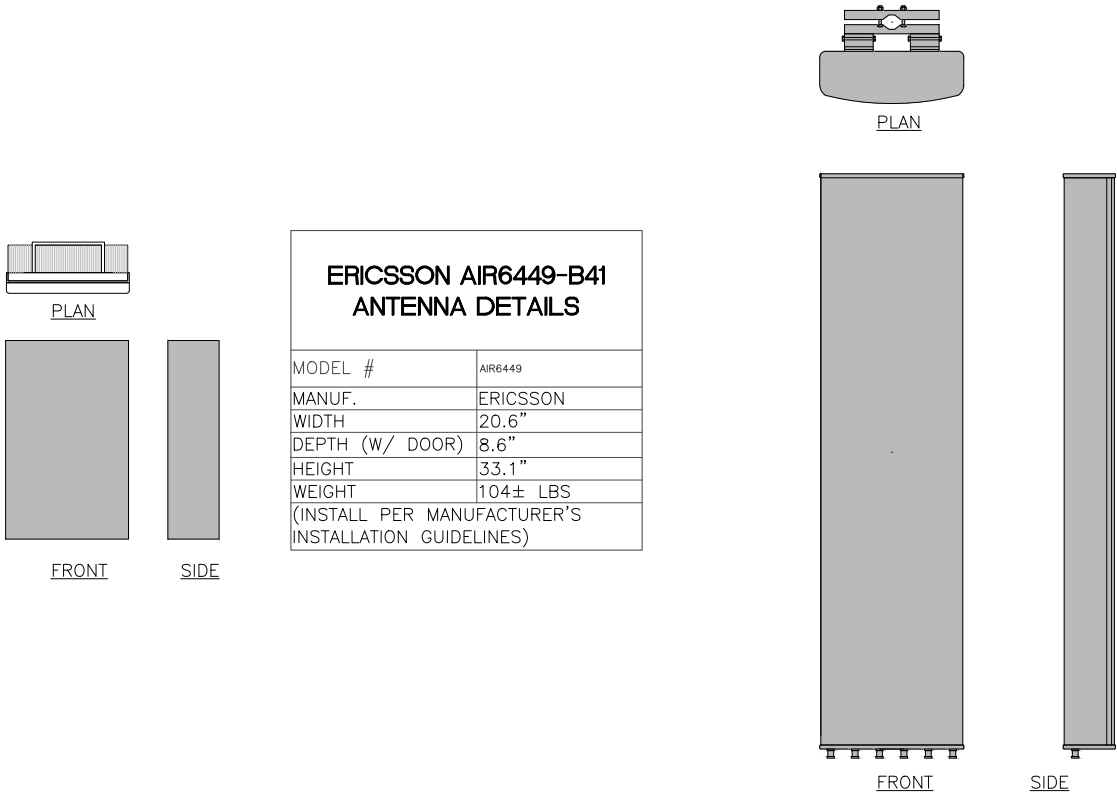
NOTES

- ANTENNA MOUNT DETAIL FOR POSITION A1, B1, & G1.



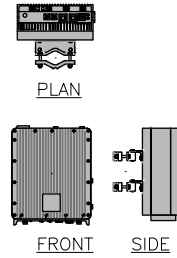
NOTES

- ANTENNA MOUNT DETAIL FOR POSITION A2, B2, & G2.

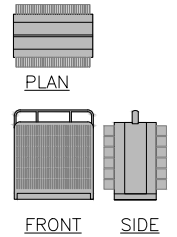


ERICSSON AIR6449-B41 ANTENNA DETAILS	
MODEL #	AIR6449
MANUF.	ERICSSON
WIDTH	20.6"
DEPTH (W/ DOOR)	8.6"
HEIGHT	33.1"
WEIGHT	104± LBS
(INSTALL PER MANUFACTURER'S INSTALLATION GUIDELINES)	

RFS APXVAALL24_43-U-NA20	
MODEL #	APXVAALL24_43-U-NA20 (OCTA)
MANUF.	RFS
HEIGHT	95.9"
WIDTH	24"
DEPTH	8.5"
WEIGHT	123/148.3 LBS with Mounting Hardware



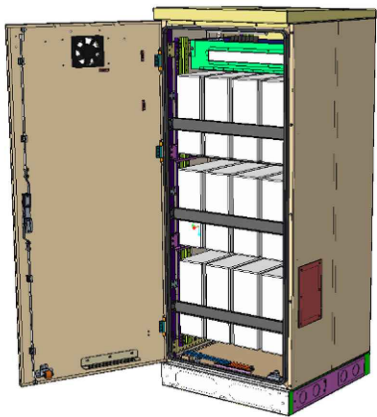
RADIO 4415 DIMENSIONS	
MODEL #	RADIO 4415 B25
MANUF.	ERICSSON
HEIGHT	13.47"
WIDTH	5.9"
DEPTH	16.54"
WEIGHT	49.6± LBS



RADIO 4449 DIMENSIONS	
MODEL #	RADIO 4449 B71+B85
MANUF.	ERICSSON
HEIGHT	15.0"
WIDTH	13.2"
DEPTH	10.4"
WEIGHT	75± LBS

1
A-7 ANTENNA DETAILS
NOT TO SCALE

2
A-7 RADIO DETAILS
NOT TO SCALE



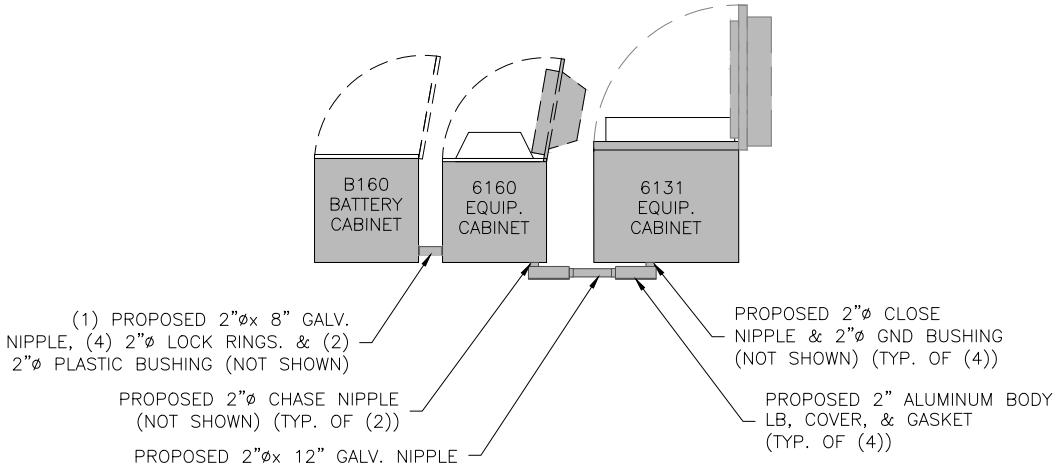
Preliminary technical specification for Enclosure 6160 AC	
CAPACITY	
Rack space user equipment	10U (10" rack)
Hardware capabilities	Power and CPRI support for multi-standard remote radios (RRU or AIR)
	ERS Baseband and Transport units
	Li-Ion batteries
	3PP equipment
	Additional power feed available as option
MECHANICAL SPECIFICATION	
Weight	145 kg (excluding active equipment) 320 lbs (excluding active equipment)
Dimension (H x W x D)	1600 x 660 x 660 mm (incl. Base frame) 63 x 26 x 26 in. (incl. Base frame)
Base frame height	160 mm 6 in.
Mounting position	Ground
Enclosure material	Aluminum
Color	Powder paint NCS 2002-B
Door	Front access
Rack type	10" (IEC 60297-3-100)
Locking type	Pad lock or Cylinder
POWER SYSTEM	
Input voltage	3P+N+PE: 349/200-415/240 VAC 2P+N+PE: 208/120-220/127 VAC 1P+N+PE: 200-230 VAC

Capacity	
— VRLA 12V:	100Ah / 150Ah / 170Ah / 190Ah / 210Ah
— Li-Ion:	24U 19" / 23"
— Sodium-Nickel:	3x FIAMM
Electrical specification	
— DC Output:	-48VDC/200A
— Battery breakers:	2x 125/2p
— Alarms:	Door open, Climate failure, MCB Connection
Mechanical specification	
— Weight:	134kg
— Dimensions:	63 x 26 x 26 in. (incl. Base frame)
— Base frame height:	6 in.
— Material:	Galvanized steel (180g/m²)
— Color:	Powder paint NCS 2002-B
— Door:	Front access
— Locking type:	Pad lock / cylinder

6160 EQUIPMENT ENCLOSURE

B160 BATTERY ENCLOSURE

3
A-7 PROPOSED EQUIPMENT CABINET SPECIFICATIONS
NOT TO SCALE



4
A-7 NEW EQUIPMENT CONDUIT DETAIL
NOT TO SCALE

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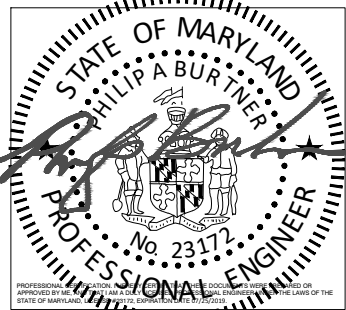


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SITE ID:	7WAS039C
SITE ADDRESS:	EDMONSTON ROAD GREENBELT, MARYLAND 20770

SHEET TITLE:	EQUIPMENT DETAILS
DRAWING:	A-7



SITE NAME:	USDA - LAUREL
SITE ID:	7WAS039C
SITE ADDRESS:	EDMONSTON ROAD GREENBELT, MARYLAND 20770
SHEET TITLE:	GROUNDING DETAILS & ONE LINE DIAGRAM
DRAWING:	G-1

Attachment 3. Tribal and NHO Involvement

At an early stage in the planning process, the Nationwide Agreement requires the Applicant to gather information from appropriate Indian Tribes or Native Hawaiian Organizations (NHOs) to assist in the identification of historic properties of religious and cultural significance to them. Describe measures taken to identify Indian Tribes and NHOs that may attach religious and cultural significance to historic properties that may be affected by the collocation within the Areas of Potential Effect (APE) for direct and visual effects. If such Indian Tribes or NHOs were identified, list them and provide a summary of contacts by either the FCC, the Applicant, or the Applicant's representative. Provide copies of relevant documents, including correspondence. If no such Indian Tribes or NHOs were identified, please explain.

On April 29, 2021, AEC uploaded the Site installation information to the FCC's Tower Construction Notification System (response email attached). To date, seven tribes have responded with interest. AEC will forward additional information to the interested tribes, and any pertinent responses received will be forwarded to Maryland Historic Trust (MHT).

From: towernotifyinfo@fcc.gov
To: cmoses@aec-env.com
Cc: tcnsweekly@fcc.gov
Subject: NOTICE OF ORGANIZATION(S) WHICH WERE SENT PROPOSED TOWER CONSTRUCTION NOTIFICATION INFORMATION - Email ID #7684880
Date: Friday, May 7, 2021 3:07:06 AM

Dear Applicant:

Thank you for using the Federal Communications Commission's (FCC) Tower Construction Notification System (TCNS). The purpose of this electronic mail message is to inform you that the following authorized persons were sent the notification that you provided through TCNS, which relates to your proposed antenna structure. The information was forwarded by the FCC to authorized TCNS users by electronic mail and/or regular mail (letter). We note that the review period for all parties begins upon receipt of the Submission Packet pursuant to Section VII.A of the NPA and notifications that do not provide this serve as information only.

Persons who have received the notification that you provided include leaders or their designees of federally-recognized American Indian Tribes, including Alaska Native Villages (collectively "Tribal Nations"), Native Hawaiian Organizations (NHOs), and State Historic Preservation Officers (SHPOs). For your convenience in identifying the referenced Tribal Nations and NHOs and in making further contacts, the City and State of the Seat of Government for each Tribal Nation and NHO, as well as the designated contact person, is included in the listing below. We note that Tribal Nations may have Section 106 cultural interests in ancestral homelands or other locations that are far removed from their current Seat of Government. Pursuant to the Commission's rules as set forth in the Nationwide Programmatic Agreement for Review of Effects on Historic Properties for Certain Undertakings Approved by the Federal Communications Commission (NPA), all Tribal Nations and NHOs listed below must be afforded a reasonable opportunity to respond to this notification, consistent with the procedures set forth below, unless the proposed construction falls within an exclusion designated by the Tribal Nation or NHO. (NPA, Section IV.F.4).

The notification that you provided was forwarded to the following Tribal Nations and NHOs. A Tribal Nation or NHO may not respond until a full Submission Packet is provided. If, upon receipt, the Tribal Nation or NHO does not respond within a reasonable time, you should make a reasonable effort at follow-up contact, unless the Tribal Nation or NHO has agreed to different procedures (NPA, Section IV.F.5). In the event a Tribal Nation or NHO does not respond to a follow-up inquiry, or if a substantive or procedural disagreement arises between you and a Tribal Nation or NHO, you must seek guidance from the Commission (NPA, Section IV.G). These procedures are further set forth in the FCC's Second Report and Order released on March 30, 2018 (FCC 18-30).

1. Historic Preservation Director Erin Paden - Delaware Nation - 31064 State Highway 281 (PO Box: 825) Anadarko, OK - banderson@delawarenation-nsn.gov; epaden@delawarenation-nsn.gov - 405-247-2448 (ext: 1403) - electronic mail

Exclusions: The Delaware Nation of Oklahoma Historic Preservation Office has developed the following consultation procedures for all TCNS projects identified as undertakings by the Federal Communications Commission. Please submit a 1 page cover letter with the TCNS Number, Project Name, City, County, State, Project Type, Height of tower, Land use, Explanation of ground disturbance, Geographic Coordinates in decimal degrees, and Contact information including individuals name, address, phone, fax, and email.

2. THPO Edith Leoso - Bad River Band of Lake Superior Tribe of Chippewa Indians - (PO Box: 39) Odanah, WI - thpo@badriver-nsn.gov; THPOAsst@badriver-nsn.gov - 715-682-7123 - electronic mail

If the applicant/tower builder receives no response from the Bad River Band of Lake Superior Tribe of Chippewa Indians within 30 days after notification through TCNS, the Bad River Band of Lake Superior Tribe of Chippewa Indians has no interest in participating in pre-construction review for the proposed site. The Applicant/tower builder,

however, must immediately notify the Bad River Band of Lake Superior Tribe of Chippewa Indians in the event archaeological properties or human remains are discovered during construction, consistent with Section IX of the Nationwide Programmatic Agreement and applicable law.

3. Cell Tower Coordinator Kelly Nelson - Eastern Shawnee Tribe of Oklahoma - 70500 East 128 Road Wyandotte, OK - celltower@estoo.net - 918-238-5151 (ext: 1861) - regular mail
Exclusions: DO NOT EMAIL DOCUMENTATION; it will be deleted without being opened.
Submit one printed color copy by US postal mail or other parcel carrier of all documentation to:

Eastern Shawnee Tribe
Attn: CellTower Program
70500 E. 128 Rd.
Wyandotte, OK 74370

Provide a 1-page cover letter with the following information:

- a. TCNS Number
- b. Company Name
- c. Project Name, City, County, State
- d. Project type
- e. Project coordinates
- f. Contact information

The Eastern Shawnee Procedures document is available and highly recommended for guidance; send an email to celltower@estoo.net requesting our most current copy.

4. THPO Sherri Clemons - Wyandotte Nation - 64700 E, Hwy 60 Wyandotte, OK - sclemons@wyandotte-nation.org - 918-678-6344 - electronic mail

Exclusions: Please refrain from sending information via mail. We ONLY accept information via email to: sclemons@wyandotte-nation.org. We will advise if we require additional information.

5. Cell t Kim Jumper - Shawnee Tribe - 29 South 69A Highway Miami, OK - tcns@shawnee-tribe.com - 918-542-2441 - electronic mail

6. Dr. Brice M Obermeyer - Delaware Tribe of Indians of Oklahoma - 1 Kellog Drive Roosevelt Hall, Room 212 Emporia, KS - bobermeyer@delawaretribe.org; sbachor@delawaretribe.org - 620-341-6699 - electronic mail
Exclusions: The Delaware Tribe of Indians areas of interest include our aboriginal territories (circa 1600), known locations of historic Delaware settlements, routes of removal and forced migration, and all lands of Delaware aboriginal title ceded by treaty to the United States. If you are receiving this notification, then your project falls within these areas of interest and we ask that you provide us with a cover letter describing the project and its location (including the project coordinates) as well as a topographic map showing the project location. If an archaeological survey has already been performed in preparation for the project, please send a copy of that as well. Additionally, we may request a biological assessment of culturally significant treaty resources which may be affected by the proposed undertaking.

We are only interested in consulting on projects that involve ground disturbance that is planned to take place in both undisturbed and previously disturbed contexts. We are not interested in consulting on collocations or projects that involve no ground disturbance. If your project does involve ground disturbance or you do not receive a response from us within 30 days of submitting the above project information, then we have no objection to the project. However, if any archaeological resources or human remains are disturbed at any point in the project planning or construction, we ask that the project be halted until we can be notified of the inadvertent discovery and can determine the most appropriate course of action. If your company would like a formal written response from the Delaware Tribe concerning the potential impact of your project to culturally and religiously significant sites, please contact Brice Obermeyer at bobermeyer@delawaretribe.org to request such a response. In order to better facilitate consultation throughout our areas of interest we have three regional tribal historic preservation offices. While our Tribal Headquarters remains in Oklahoma, our Eastern Office in Pennsylvania is the point of contact for all consultation within our Eastern Region which includes the states of Massachusetts, Connecticut, New York, New Jersey, Pennsylvania, Delaware, Maryland and Virginia. If your project exists in any of these states, please contact Susan Bachor with the above project information at the following e-mail address. Our eastern office prefers to receive digital submissions and the project information can be submitted by e-mail.

Susan Bachor, DTHPO Special Assistant
Eastern Office
P.O. Box 64
Pocono Lake, PA 18347
(610) 761-7452 sbachor@delawaretribe.org

Our Midwestern office in Minnesota is the point of contact for all consultation within our Midwestern region which includes the states of West Virginia, Ohio, Indiana, Michigan and Illinois. If your project exists in any of these states, please contact Larry Heady with the above project information at the following e-mail address. Our Midwestern office prefers to receive digital submissions and the project information can be submitted by e-mail.

Larry Heady, DTHPO Special Assistant
Midwestern Office
1929 E. 6th Street
Duluth, MN 55812
(262) 825-7586
lheady@delawaretribe.org

Our main office in Emporia, Kansas is the point of contact for all consultation within our Western Region which

includes the states of Oklahoma, Kansas and Missouri. If your project exists in any of these states, please contact Brice Obermeyer with the above project information at the following e-mail address. Our Main Office prefers to receive digital submissions and the project information can be submitted by e-mail.

Dr. Brice Obermeyer, DTHPO Director,
Main Office
1 Kellogg Circle Roosevelt Hall,
Rm 212 Emporia State University
Emporia, KS 66801
(602) 341-6699
bobermeyer@delawaretribe.org

We, at the Delaware Tribe Historic Preservation Office, along with our Chief and Tribal Council remain committed to protecting the cultural and physical integrity of our historic sites, traditional cultural properties, sacred sites, objects of cultural patrimony, and most importantly, the remains of our Ancestors. We look forward to working with you on our shared interests in preserving and protecting Delaware heritage within our areas of interest.

If the applicant/tower builder receives no response from the Delaware Tribe of Indians of Oklahoma within 30 days after notification through TCNS, the Delaware Tribe of Indians of Oklahoma has no interest in participating in pre-construction review for the proposed site. The Applicant/tower builder,

however, must immediately notify the Delaware Tribe of Indians of Oklahoma in the event archaeological properties or human remains are discovered during construction, consistent with Section IX of the Nationwide Programmatic Agreement and applicable law.

7. Program Manager Ellen Chapman - Cultural Heritage Partners - 1811 East Grace St Suite A Richmond, VA - ellen@culturalheritagepartners.com; rapn8n@gmail.com - 434-327-6663 - electronic mail

The notification that you provided was also forwarded to the following SHPOs in the State in which you propose to construct and neighboring States. The information was provided to these SHPOs as a courtesy for their information and planning. You need make no effort at this time to follow up with any SHPO that does not respond to this notification. Prior to construction, you must provide the SHPO of the State in which you propose to construct (or the Tribal Historic Preservation Officer, if the project will be located on certain Tribal lands), with a Submission Packet pursuant to Section VII.A of the NPA unless the project is excluded from SHPO review under Section III D or E of the NPA.

8. Architectural Historian Anne Brockett - D.C. Historic Preservation Office - 801 North Capitol Street NE 3rd Floor Washington, DC - anne.brockett@dc.gov - 202-442-8842 - electronic mail

9. SHPO Elizabeth Hughes - Maryland Historical Trust - 100 Community Place Third Floor Crownsville, MD - beth.cole@maryland.gov - 410-514-7631 - electronic mail

10. Historic Preservation Supervisor Barbara Frederick - Pennsylvania State Historic Preservation Office - Pennsylvania Historical & Museum Commission 400 North St, 2nd Floor Harrisburg, PA - bafrederic@pa.gov -

717-772-0921 - electronic mail

11. Deputy SHPO Susan Pierce - West Virginia Division of Culture & History, Historic Preservation Office - 1901 Kanawha Boulevard East Charleston, WV - susan.pierce@wvculture.org - -- - electronic mail

TCNS automatically forwards all notifications to all Tribal Nations and SHPOs that have an expressed interest in the geographic area of a proposal. However, if a proposal for PTC wayside poles falls within a designated exclusion, you need not expect any response and need not pursue any additional process with that Tribal Nation or SHPO. In addition, a particular Tribal Nation or SHPO may also set forth policies or procedures within its details box that exclude from review certain facilities (for example, a statement that it does not review collocations with no ground disturbance; or that indicates that no response within 30 days indicates no interest in participating in pre-construction review).

Please be advised that the FCC cannot guarantee that the contact(s) listed above have opened and reviewed an electronic or regular mail notification. If you learn that any of the above contact information is no longer valid, please contact the FCC by emailing tcnshep@fcc.gov. The following information relating to the proposed tower was forwarded to the person(s) listed above:

Notification Received: 04/29/2021

Notification ID: 230708

Excluded from SHPO Review: No

Tower Owner Individual or Entity Name: T-Mobile Northeast, LLC

Consultant Name: Catherine Moses

Street Address: 8610 Washington Boulevard
Suite 217

City: Jessup

State: MARYLAND

Zip Code: 20794

Phone: 301-776-0500

Email: cmoses@aec-env.com

Structure Type: TANK - Any type of Tank (Water, Gas, etc)

Latitude: 39 deg 1 min 1.2 sec N

Longitude: 76 deg 51 min 39.1 sec W

Location Description: Edmonston Road

City: Greenbelt

State: MARYLAND

County: PRINCE GEORGE'S

Detailed Description of Project: 7WAS039C - T-Mobile proposes modifications to an existing telecommunications facility. No ground disturbance is proposed for this project.

Ground Elevation: 52.1 meters

Support Structure: 46.3 meters above ground level

Overall Structure: 46.3 meters above ground level

Overall Height AMSL: 98.4 meters above mean sea level

If you have any questions or comments regarding this notice, please contact the FCC using the electronic Help Request form located on the FCC's website at:

<https://www.fcc.gov/wireless/available-support-services>

You may also call the FCC Support Center at (877) 480-3201 (TTY 717-338-2824). Hours are from 8:00

a.m. to 6:00 p.m. Eastern Time, Monday through Friday (except Federal holidays). To provide quality service and ensure security, all telephone calls are recorded.

Thank you,
Federal Communications Commission

Attachment 4. Local Government

A. Has any local government agency been contacted and invited to become a consulting party pursuant to Section V.A. of the Nationwide Agreement? If so, list the local government agencies contacted. Provide a summary of contacts and copies of any relevant documents.

AEC contacted the Prince George's County Planning Department on May 10, 2021 to determine if they were interested in commenting on the project's potential effects to historic properties. Any response received from the Prince George's County Planning Department will be forwarded to MHT.

B. If a local government agency will be contacted but has not been to date, explain why and when such contact will take place. N/A



May 10, 2021

Mr. Howard Berger, Supervisor
Prince George's County Planning Department
Historic Preservation Commission
14741 Governor Oden Bowie Drive

**Subject: Section 106 Submittal Comments
Proposed Modification Site – Sprint "7WAS039C"
Edmonston Road
Greenbelt, Maryland 20770
39°01'01.2" North 76°51'39.1" West
AEC Project No. CL-2021-005**

Dear Mr. Berger,

T-Mobile proposes the modification of an existing telecommunications facility on the existing water tank located at the above-referenced coordinates. T-Mobile proposes replacing six existing antennas (three 56-inch tall by 12-inch wide, three 96.6-inch tall by 11.9-inch wide) with six new antennas (three 95.9-inch tall by 24-inch wide, and three 33.1-inch tall by 20.5-inch wide) on existing mounts. T-Mobile also proposes the addition of three new RRUs and two replacement equipment cabinets. Please note that no ground disturbance is proposed for this project. The Site consists of a 152.2-foot-tall water tower located approximately 1,200 feet southwest from the intersection of Baltimore Washington Parkway and Beaver Dam Road.

In accordance with Section 106 of the National Historic Preservation Act, we are seeking comments from the public and any interested parties on potential effects to historic properties.

If you would like to comment on this project, please contact me at your earliest convenience. I can be reached by phone at (301) 776-0500, or by email at cmoses@aec-env.com. Thank you.

Sincerely,
ADVANTAGE ENVIRONMENTAL CONSULTANTS, LLC

Catherine Moses

Catherine Moses
Staff Scientist

Enclosure

Attachment 5. Public Involvement

Describe measures taken to obtain public involvement in this project (e.g. notices, letters, or public meetings). Provide copies of relevant documentation.

A public notice ad for the proposed installation is to run in the Enquirer-Gazette on May 20, 2021. Any comments received in response to the ad will be forwarded to MHT. A copy of the public notice ad is included in this attachment.

Invitation to Comment on a Proposed Wireless Telecommunications Facility

Interested persons are invited to comment on the wireless telecommunications project proposed on a water tower located at 39°01'01.2"N 76°51'39.1"W in Greenbelt, Maryland with respect to impacts on, and specifically, the potential effects to, historic properties located at or near this facility. The project involves the replacing of six existing antennas with six new antennas, on a 152.2-foot water tower. Three new radio units and two replacement equipment cabinets are also proposed. Comments regarding potential effects to historic properties should be submitted within 30 days from the date of this publication to Mr. Andrew Fleming at 8610 Washington Boulevard, Suite 217, Jessup, MD 20794, (301) 776-0500, or afleming@aec-env.com. This notice is provided in accordance with regulations of the Federal Communications Commission, 47 C.F.R. Part 1, Subpart I and Appendices B.

2946268 EQ

5/20/2021

CERTIFICATE OF PUBLICATION

STATE OF : MARYLAND
COUNTY OF: Prince George's County

This is to certify that the annexed legal advertisement has been published in the publications and insertions listed below. "Invitation - Water Tower in Greenbelt..." was published in the:

The Enquirer-Gazette 05/20/21



James F. Normandin
President & Publisher

Invitation to Comment on a Proposed Wireless Telecommunications Facility

Interested persons are invited to comment on the wireless telecommunications project proposed on a water tower located at 39°01'01.2"N 76°51'39.1"W in Greenbelt, Maryland with respect to impacts on, and specifically, the potential effects to, historic properties located at or near this facility. The project involves the replacing of six existing antennas with six new antennas, on a 152.2-foot water tower. Three new radio units and two replacement equipment cabinets are also proposed. Comments regarding potential effects to historic properties should be submitted within 30 days from the date of this publication to Mr. Andrew Fleming at 8610 Washington Boulevard, Suite 217, Jessup, MD 20794, (301) 776-0500, or afleming@aec-env.com. This notice is provided in accordance with regulations of the Federal Communications Commission, 47 C.F.R. Part 1, Subpart I and Appendices B.

2946268 EQ

5/20/2021

Attachment 6. Additional Consulting Parties

List additional consulting parties that were invited to participate by the applicant, or independently requested to participate. Provide any relevant correspondence or other documents.

AEC contacted the Prince George's County Historical Society on May 10, 2021, inviting them to comment on the proposed installation. Any response received from the Prince George's County Historical Society will be forwarded to MHT.



May 10, 2021

Prince George's County Historical Society
P.O Box 1513
Upper Marlboro, Maryland 20773

**Subject: Section 106 Submittal Comments
Proposed Modification Site – Sprint “7WAS039C”
Edmonston Road
Greenbelt, Maryland 20770
39°01'01.2" North 76°51'39.1" West
AEC Project No. CL-2021-005**

To Whom It May Concern,

T-Mobile proposes the modification of an existing telecommunications facility on the existing water tank located at the above-referenced coordinates. T-Mobile proposes replacing six existing antennas (three 56-inch tall by 12-inch wide, three 96.6-inch tall by 11.9-inch wide) with six new antennas (three 95.9-inch tall by 24-inch wide, and three 33.1-inch tall by 20.5-inch wide) on existing mounts. T-Mobile also proposes the addition of three new RRUs and two replacement equipment cabinets. Please note that no ground disturbance is proposed for this project. The Site consists of a 152.2-foot-tall water tower located approximately 1,200 feet southwest from the intersection of Baltimore Washington Parkway and Beaver Dam Road.

In accordance with Section 106 of the National Historic Preservation Act, we are seeking comments from the public and any interested parties on potential effects to historic properties.

If you would like to comment on this project, please contact me at your earliest convenience. I can be reached by phone at (301) 776-0500, or by email at cmoses@aec-env.com. Thank you.

Sincerely,
ADVANTAGE ENVIRONMENTAL CONSULTANTS, LLC

Catherine Moses

Catherine Moses
Staff Scientist

Enclosure

Attachment 7. Areas of Potential Effects

A. Describe the APE for direct effects and describe how this was determined.

The APE for direct effects is limited to any structures that will be directly altered by the proposed installation, and proposed areas of ground disturbance. Based on review of construction drawings and site reconnaissance, AEC determined that the APE for direct effects is limited to the existing Site building. The APE for direct effects is shown on the drawings included in Attachment 2.

B. Describe the APE for visual effects and describe how this was determined.

As this project is a collocation on a 152.2-foot-tall water tower, a 500-APE for visual effects was used. This was determined based on the site reconnaissance and guidance within the NPA.

Attachment 8. Historic Properties Identified in the APE for Visual Effects

A. Currently Listed and Eligible Properties:

Review of MHT files identified the following listed and/or eligible historic resources within the APE for visual effects:

Name of Resource	Distance from Project Site	NR Status
Beltsville Agricultural Resource Center (BARC) (PG: 62-14)	Within	Eligible
Baltimore-Washington Parkway (PG: 69-26)	230 feet	Listed

A copy of the inventory form for the identified resource is included within this attachment. A copy of the historic resource's location map is included within Attachment 12

B. Properties Identified Through Comments of Indian Tribes, Local Governments, or Members of the Public:

No such properties have been identified.

C. Properties Listed in 8a Considered No Longer Eligible For Inclusion on the National Register:

No such properties have been identified.

Attachment 9. Historic Properties Identified in the APE for Direct Effects

A. Properties Identified in 8a or 8b Within the APE for Direct Effects:

No such properties were identified.

B. Properties Identified, Not Listed Within Attachment 9A, Within the APE for Direct Effects that are Considered to be Eligible for Listing in the National Register:

No such properties were identified.

C. Techniques and Methodology Used to Identify Historic Properties Within the APE for Direct Effects:

For identification of historic structures and previously recorded archaeological sites, AEC conducted a review at the MHT library.

No archeological investigation was conducted as no ground disturbance is proposed to occur during T-Mobile's installation.

Attachment 10. Statement of Effects

For each property identified as an historic property in Attachments 8 and 9:

A. Indicate whether the Applicant believes the proposed collocation would have a) no effect; b) no adverse effect; or, c) adverse effect. Explain how each assessment was made. Provide supporting documentation if necessary.

A copy of the Statement of Effect, prepared by Architectural Historian David C. Berg, is included within this Attachment.

B. Provide copies of any correspondence and summaries of any oral communication with the SHPO/THPO.

No correspondence with the SHPO has occurred to date.

C. Describe any alternatives that have been considered that might avoid, minimize or mitigate any adverse effects. N/A

Attachment 10: Effects on Identified Properties

April 29, 2021

Site Number: 7WAS039C
Edmonston Road
Greenbelt, MD 20770

This Statement of Effects has been prepared for the proposed changes to an existing telecommunications installation at Edmonston Road in Greenbelt, Maryland. Because telecommunication facilities are Federal Communication Commission (FCC)-licensed entities, the construction of the facility constitutes an undertaking and its potential impact on historic properties must be considered in accordance with Section 106 of the National Historic Preservation Act (NHPA) of 1966 (as amended).

The subject property is a water tank constructed before 1957 according to aerial photographs. Existing installations include antennas and equipment by T-Mobile and other carriers. T-Mobile installations include three (3) antennas per sector for a total of nine (9) antennas and one (1) RRU per sector for a total of three (3) RRUs. Existing installations also include cable and equipment cabinets on a concrete pad within an existing chain-link fenced compound. T-Mobile proposes the removal and replacement of two (2) antenna per sector for a total of six (6) antenna removals and replacements and the removal and replacement of one (1) RRU per sector for a total of three (3) RRU removals and replacements. T-Mobile also proposes the removal of existing 3x6 hybrid cables to be replaced with six (6) new 6x12 hybrid cables. One existing equipment cabinet within the equipment area will be replaced with two smaller equipment cabinets. Existing and proposed T-Mobile antennas are mounted at a radial center of 135'-0" agl. The top of the water tower is at a height of 152'-2" agl. No other construction related activities are anticipated. The undertaking does not involve any ground disturbance.

Area of Potential Effects

Federal regulations related to telecommunication projects define the Area of Potential Effect (APE) as *"the geographic area or areas within which an Undertaking may directly or indirectly cause alterations in the character or use of Historic Properties, if any such properties exist."* As there is no ground disturbance associated with this project, the APE for direct effects for this project is limited to the equipment installation locations. Based upon conditions observed in the field, the APE has been determined to be a 500-foot radius around the installation site.

Identified Properties

A review of previously inventoried historic properties was conducted to assess potential direct and indirect/visual effects. The subject water tank is subject to SHPO review because it is over 45 years of age. It has not been determined eligible for the National Register of Historic Places. The subject property is a common water tank. It is not associated with historically significant persons or events and is not a noteworthy example of its type or method of construction, nor is it the work of a master and is therefore not eligible for the National Register of Historic Places. The subject property lies within the Beltsville Agricultural Resource Center [BARC] (PG: 62-14) which was determined eligible for the National Register of Historic Places in 1999. The Baltimore-Washington Parkway (PG: 69-26) lies approximately 230 feet east of the structure and was listed on the National Register in 1991. Also with

the APE is the BARC Garage/Hydrology Lab Annex Building 288A (PG: 67-43), which has been determined not eligible for the National Register. The BARC Potable Water System (PG: 61-23) is located at various locations within BARC and has been determined not eligible for the National Register. There are no other National Register listed or eligible properties within the APE for indirect/visual effects (Map 1, Table 1).

Effects on Identified Properties

Direct Effects

As the subject water tank is not individually eligible for the National Register of Historic Places, there will be **No Effect** with respect to direct effects.

Indirect/Visual Effects

The subject water tank is located in a secluded area surrounded by forest and present installations are not highly visible from resources within the Beltsville Agricultural Resource Center [BARC] or the Baltimore-Washington Parkway. The proposed antenna and RRU removals and replacements constitute a minor change to this existing facility and the changes will not be readily distinguishable from existing installations. Existing and proposed antennas do not rise above the top of the water tank and blend into the massing of the water tank. The additions will not endanger those qualities that make either resource eligible for the National Register of Historic Places. Therefore, there will be **No Adverse Effect** with respect to indirect/visual effects.

Please refer to the following maps and photographs for additional information.

David C. Berg
Architectural Historian

Attachment 11. Photographs

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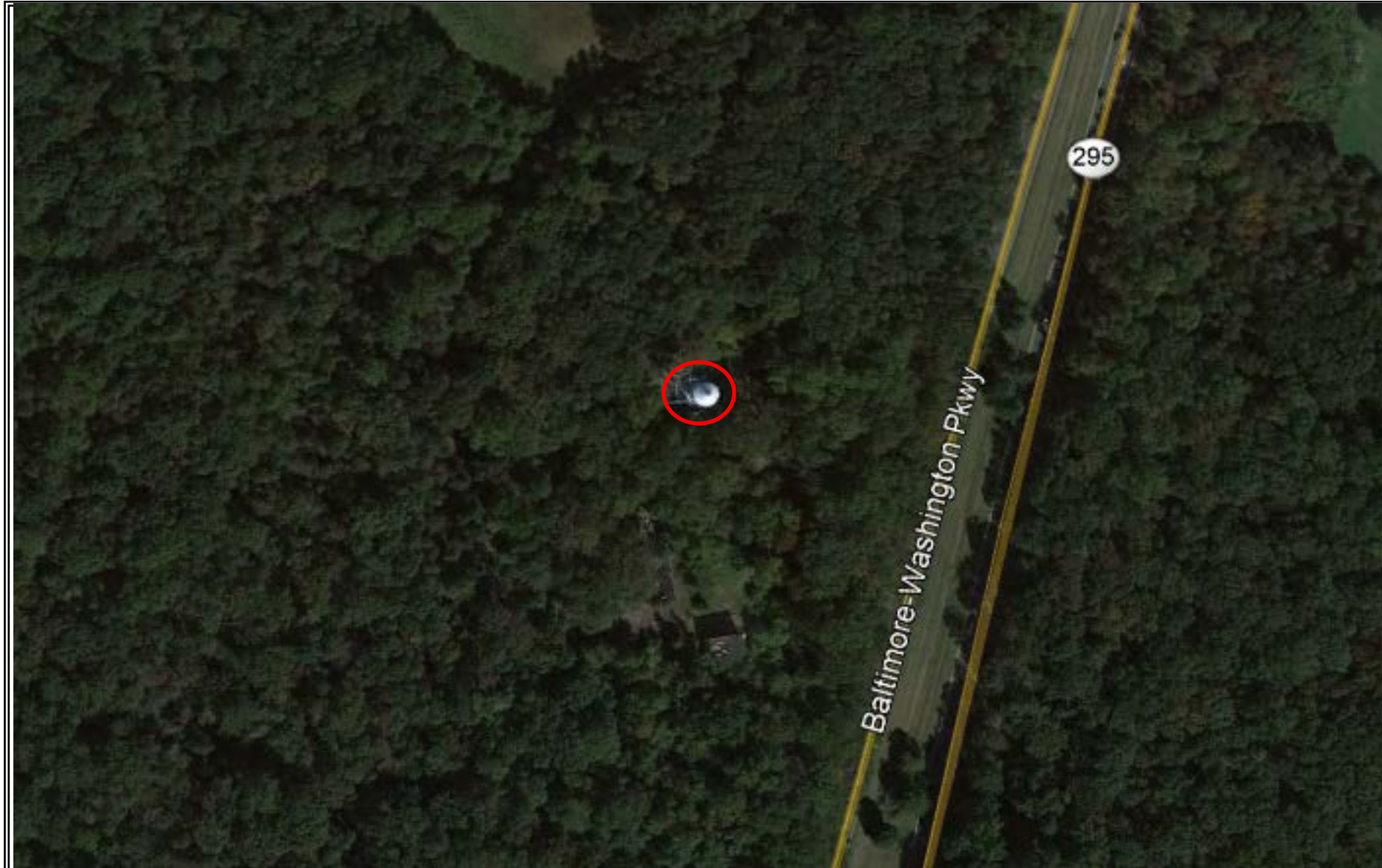
Attachment 12. Maps

Please see the attached topographic map, SHPO map, and APE map. Please note that as all photographs were taken from the general Site location, no photograph location map was included for the Site.



Map 1: Map of the project site and the 500-foot radius circle. The map shows the project site (yellow square) and the 500-foot radius circle (red outline). The map also shows the proposed site (blue square) and the historic site (red circle). The map is oriented with North at the top.

Table 1. Historic Properties within a 500-foot radius of the project site			
Name	Distance from project site	National Register Status	Effect
St. John's Episcopal Church	0.1 miles	Not Listed	No Effect
St. John's Episcopal Church	0.1 miles	Not Listed	No Effect
St. John's Episcopal Church	0.1 miles	Not Listed	No Effect
St. John's Episcopal Church	0.1 miles	Not Listed	No Effect
St. John's Episcopal Church	0.1 miles	Not Listed	No Effect



Legend

— = Approximate Site Boundary



Site Plan
"7WAS039C"
Edmonston Road
Greenbelt, Maryland 20770

Project No.:
CL-2021-005

Report Date:
May 2021

Drawn By:
CEM



**Advantage
Environmental
Consultants, LLC**

8610 Washington Boulevard, Suite 217
Jessup, Maryland 20794

Phone: 301-776-0500 Fax: 301-776-1123



Site Vicinity Map
USGS Laurel, MD, Quadrangle 2014
"7WAS039C"
Edmonston Road
Greenbelt, Maryland 20770

AEC Project No.:

CL-2021-005

Report Date:

May 2021

Drawn By:

CEM

ATTACHMENT 2

Tribal Correspondence



#

#

May 21, 2021

Erin Paden
Historic Preservation Director
Delaware Nation
PO Box: 825
Anadarko, Oklahoma

Subject: **TCNS ID # 230708, Project Information
Proposed Modification Site – Sprint “7WAS039C”
Edmonston Road
Greenbelt, Maryland 20770
39°01'01.2" North 76°51'39.1" West
AEC Project No. CL-2021-005**

To Whom It May Concern:

Advantage Environmental Consultants, LLC (AEC), on behalf of T-Mobile Northeast, LLC, respectfully requests your comment on the above-referenced project. The project was initially uploaded into the TCNS system on April 29, 2021. T-Mobile proposes the modification of an existing telecommunications facility on the existing water tank located at the above-referenced coordinates. T-Mobile proposes replacing six existing antennas (three 56-inch tall by 12-inch wide, three 96.6-inch tall by 11.9-inch wide) with six new antennas (three 95.9-inch tall by 24-inch wide, and three 33.1-inch tall by 20.5-inch wide) on existing mounts. T-Mobile also proposes the addition of three new RRUs and two replacement equipment cabinets. Please note that no ground disturbance is proposed for this project.

The Site consists of a 152.2-foot-tall water tower located approximately 1,200 feet southwest from the intersection of Baltimore Washington Parkway and Beaver Dam Road. I have enclosed the FCC Form 621 for your review.

We look forward to receiving your written response so that we can best address the concerns of the Delaware Nation. Please address your response to my attention at the address listed on the letterhead below, or email me at cmoses@aec-env.com. If you have any questions, please call me at (301) 776-0500. Thank you for your assistance.

Sincerely,
ADVANTAGE ENVIRONMENTAL CONSULTANTS, LLC

Catherine Moses

Catherine Moses
Staff Scientist



The Delaware Nation
Historic Preservation Department
31064 State Highway 281
Anadarko, OK 73005
Phone (405)247-2448

June 21, 2021

To Whom It May Concern:

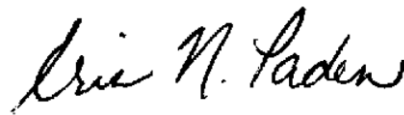
The Delaware Nation Historic Preservation Department received correspondence regarding the following referenced project(s).

Project(s): TCNS# 230708
Edmonston Road, Greenbelt, MD 20770
AEC Project# CL-2021-005

Our office is committed to protecting tribal heritage, culture and religion with particular concern for archaeological sites potentially containing burials and associated funerary objects.

The Lenape people occupied the area indicated in your letter prior to European contact until their eventual removal to our present locations. According to our files, **the location of the proposed project does not endanger cultural, or religious sites of interest to the Delaware Nation. Please continue with the project as planned** keeping in mind during construction should an archaeological site or artifacts inadvertently be uncovered, all construction and ground disturbing activities should immediately be halted until the appropriate state agencies, as well as this office, are notified (within 24 hours), and a proper archaeological assessment can be made.

Please note the Delaware Nation, the Delaware Tribe of Indians, and the Stockbridge Munsee Band of Mohican Indians are the only Federally Recognized Delaware/Lenape entities in the United States and consultation must be made only with designated staff of these three tribes. We appreciate your cooperation in contacting the Delaware Nation Historic Preservation Office to conduct proper Section 106 consultation. Should you have any questions, feel free to contact our offices at 405-247-2448 ext. 1403.



Erin Paden
Director of Historic Preservation
Delaware Nation
31064 State Highway 281
Anadarko, OK 73005
Ph. 405-247-2448 ext. 1403
epaden@delawarenation-nsn.gov



#

#

May 21, 2021

Edith Leoso
THPO
Bad River Band of Lake Superior Tribe of Chippewa Indians
PO Box: 39
Odanah, Wisconsin

Subject: **TCNS ID # 230708, Project Information
Proposed Modification Site – Sprint “7WAS039C”
Edmonston Road
Greenbelt, Maryland 20770
39°01'01.2" North 76°51'39.1" West
AEC Project No. CL-2021-005**

To Whom It May Concern:

Advantage Environmental Consultants, LLC (AEC), on behalf of T-Mobile Northeast, LLC, respectfully requests your comment on the above-referenced project. The project was initially uploaded into the TCNS system on April 29, 2021. T-Mobile proposes the modification of an existing telecommunications facility on the existing water tank located at the above-referenced coordinates. T-Mobile proposes replacing six existing antennas (three 56-inch tall by 12-inch wide, three 96.6-inch tall by 11.9-inch wide) with six new antennas (three 95.9-inch tall by 24-inch wide, and three 33.1-inch tall by 20.5-inch wide) on existing mounts. T-Mobile also proposes the addition of three new RRU's and two replacement equipment cabinets. Please note that no ground disturbance is proposed for this project.

The Site consists of a 152.2-foot-tall water tower located approximately 1,200 feet southwest from the intersection of Baltimore Washington Parkway and Beaver Dam Road. I have enclosed the FCC Form 621 for your review.

We look forward to receiving your written response so that we can best address the concerns of the Bad River Band of Lake Superior Tribe of Chippewa Indians. Please address your response to my attention at the address listed on the letterhead below, or email me at cmoses@aec-env.com. If you have any questions, please call me at (301) 776-0500. Thank you for your assistance.

Sincerely,
ADVANTAGE ENVIRONMENTAL CONSULTANTS, LLC

Catherine Moses

Catherine Moses
Staff Scientist



#

#

May 21, 2021

Kelly Nelson
Cell Tower Coordinator
Eastern Shawnee Tribe of Oklahoma
70500 East 128 Road
Wyandotte, Oklahoma

Subject: **TCNS ID # 230708, Project Information
Proposed Modification Site – Sprint “7WAS039C”
Edmonston Road
Greenbelt, Maryland 20770
39°01'01.2" North 76°51'39.1" West
AEC Project No. CL-2021-005**

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Advantage Environmental Consultants, LLC (AEC), on behalf of T-Mobile Northeast, LLC, respectfully requests your comment on the above-referenced project. The project was initially uploaded into the TCNS system on April 29, 2021. T-Mobile proposes the modification of an existing telecommunications facility on the existing water tank located at the above-referenced coordinates. T-Mobile proposes replacing six existing antennas (three 56-inch tall by 12-inch wide, three 96.6-inch tall by 11.9-inch wide) with six new antennas (three 95.9-inch tall by 24-inch wide, and three 33.1-inch tall by 20.5-inch wide) on existing mounts. T-Mobile also proposes the addition of three new RRUs and two replacement equipment cabinets. Please note that no ground disturbance is proposed for this project.

The Site consists of a 152.2-foot-tall water tower located approximately 1,200 feet southwest from the intersection of Baltimore Washington Parkway and Beaver Dam Road. I have enclosed the FCC Form 621 for your review.

We look forward to receiving your written response so that we can best address the concerns of the Eastern Shawnee Tribe of Oklahoma. Please address your response to my attention at the address listed on the letterhead below, or email me at cmoses@aec-env.com. If you have any questions, please call me at (301) 776-0500. Thank you for your assistance.

Sincerely,
ADVANTAGE ENVIRONMENTAL CONSULTANTS, LLC

Catherine Moses

Catherine Moses
Staff Scientist

From: towernotifyinfo@fcc.gov
To: cmoses@aec-env.com
Cc: tcns.fccarchive@fcc.gov
Subject: Reply to Proposed Tower Structure (Notification ID: 230708) - Email ID #7696154
Date: Monday, May 10, 2021 12:00:18 PM

Dear Catherine Moses,

Thank you for using the Federal Communications Commission's (FCC) Tower Construction Notification System (TCNS). The purpose of this email is to inform you that an authorized user of the TCNS has replied to a proposed tower construction notification that you had submitted through the TCNS.

The following message has been sent to you from Cell Tower Coordinator Kelly Nelson of the Eastern Shawnee Tribe of Oklahoma in reference to Notification ID **#230708:**

The Cultural Preservation Department of the Eastern Shawnee Tribe of Oklahoma (ESTO) has received the documentation for the referenced TCNS project. ESTO has reviewed the project in accordance with Section 106 of the National Historic Preservation Act (NHPA). Based on the information provided and a review of our records, we find that this project will have No Adverse Effect on properties of sacred and/or cultural significance to the Tribe. The project site is within the known regional area of the Shawnee prehistorically and historically, be aware of inadvertent discoveries. However, ESTO has no objection to the project proceeding as described. Please note that any future changes to this project will require additional consultation.

In accordance with the NHPA of 1966 (16 U.S.C. § 470-470w-6), federally funded, licensed, or permitted undertakings that are subject to the Section 106 review process must determine effects to significant historic properties. As clarified in Section 101(d)(6)(A-B), historic properties may have religious and/or cultural significance to Indian Tribes. Section 106 of NHPA requires Federal agencies to consider the effects of their actions on all significant historic properties (36 CFR Part 800) as does the National Environmental Policy Act of 1969 (43 U.S.C. § 4321-4347 and 40 CFR § 1501.7(a).

However, if during construction cultural objects or human remains are inadvertently discovered, please stop work immediately and contact the Cultural Preservation Department of the Eastern Shawnee Tribe of Oklahoma. (918)238-5151 x1861

Neyiwa,

Kelly Nelson
Cell Tower Coordinator
Eastern Shawnee Tribe of Oklahoma

For your convenience, the information you submitted for this notification is detailed below.

Notification Received: 04/29/2021
Notification ID: 230708
Tower Owner Individual or Entity Name: T-Mobile Northeast, LLC
Consultant Name: Catherine Moses
Street Address: 8610 Washington Boulevard
Suite 217

City: Jessup
State: MARYLAND
Zip Code: 20794
Phone: 301-776-0500
Email: cmoses@aec-env.com

Structure Type: TANK - Any type of Tank (Water, Gas, etc)
Latitude: 39 deg 1 min 1.2 sec N
Longitude: 76 deg 51 min 39.1 sec W
Location Description: Edmonston Road
City: Greenbelt
State: MARYLAND
County: PRINCE GEORGE'S

Detailed Description of Project: 7WAS039C - T-Mobile proposes modifications to an existing telecommunications facility. No ground disturbance is proposed for this project.

Ground Elevation: 52.1 meters
Support Structure: 46.3 meters above ground level
Overall Structure: 46.3 meters above ground level
Overall Height AMSL: 98.4 meters above mean sea level



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May 21, 2021

Sherri Clemons
THPO
Wyandotte Nation
64700 E, Hwy 60
Wyandotte, Oklahoma

Subject: **TCNS ID # 230708, Project Information
Proposed Modification Site – Sprint “7WAS039C”
Edmonston Road
Greenbelt, Maryland 20770
39°01'01.2" North 76°51'39.1" West
AEC Project No. CL-2021-005**

To Whom It May Concern:

Advantage Environmental Consultants, LLC (AEC), on behalf of T-Mobile Northeast, LLC, respectfully requests your comment on the above-referenced project. The project was initially uploaded into the TCNS system on April 29, 2021. T-Mobile proposes the modification of an existing telecommunications facility on the existing water tank located at the above-referenced coordinates. T-Mobile proposes replacing six existing antennas (three 56-inch tall by 12-inch wide, three 96.6-inch tall by 11.9-inch wide) with six new antennas (three 95.9-inch tall by 24-inch wide, and three 33.1-inch tall by 20.5-inch wide) on existing mounts. T-Mobile also proposes the addition of three new RRUs and two replacement equipment cabinets. Please note that no ground disturbance is proposed for this project.

The Site consists of a 152.2-foot-tall water tower located approximately 1,200 feet southwest from the intersection of Baltimore Washington Parkway and Beaver Dam Road. I have enclosed the FCC Form 621 for your review.

We look forward to receiving your written response so that we can best address the concerns of the Wyandotte Nation. Please address your response to my attention at the address listed on the letterhead below, or email me at cmoses@aec-env.com. If you have any questions, please call me at (301) 776-0500. Thank you for your assistance.

Sincerely,
ADVANTAGE ENVIRONMENTAL CONSULTANTS, LLC

Catherine Moses

Catherine Moses
Staff Scientist

From: towernotifyinfo@fcc.gov
To: cmoses@aec-env.com
Cc: tcnsweekly@fcc.gov
Subject: Proposed Construction of Communications Facilities Notification of Final Contacts - Email ID #29680
Date: Thursday, July 1, 2021 9:19:30 AM

T-Mobile Northeast, LLC
Catherine Moses
8610 Washington Boulevard
Suite 217
Jessup, MD 20794

Dear Applicant:

This letter addresses the proposed communications facilities listed below that you have referred to the Federal Communications Commission (Commission) for purposes of contacting federally recognized Indian Tribes, including Alaska Native Villages (collectively Indian Tribes), and Native Hawaiian Organizations (NHOs), as specified by Section IV.G of the Nationwide Programmatic Agreement (NPA). Consistent with the procedures outlined in the Commission's Wireless Infrastructure Second Report and Order (1), we have contacted the Indian Tribes or NHOs identified in the attached Table for the projects listed in the attached Table. You referred these projects to us between 06/24/2021 and 07/01/2021. Our contact with these Tribal Nations or NHOs was sent on 07/01/2021.

Thus, as described in the Wireless Infrastructure Second Report and Order (2), if you or Commission staff do not receive a statement of interest regarding a particular project from any Tribe or NHO within 15 calendar days of 07/01/2021, your obligations under Section IV of the NPA with respect to these Tribal Nations or NHOs are complete. If a Tribal Nation or NHO responds that it has concerns about a historic property of traditional religious and cultural significance that may be affected by the proposed construction within the 15 calendar day period, the Applicant must involve it in the review as set forth in the NPA, and may not begin construction until the process set forth in the NPA is completed.

You are reminded that Section IX of the NPA imposes independent obligations on an Applicant when a previously unidentified site that may be a historic property, including an archeological property, is discovered during construction or after the completion of review. In such instances, the Applicant must cease construction and promptly notify, among others, any potentially affected Tribal Nation or NHO. A Tribal Nation's or NHO's failure to express interest in participating in pre-construction review of an undertaking does not necessarily mean it is not interested in archeological properties or human remains that may inadvertently be discovered during construction. Hence, an Applicant is still required to notify any potentially affected Tribal Nation or NHO of any such finds pursuant to Section IX or other applicable law.

Sincerely,
Jill Springer
Federal Preservation Officer
Federal Communications Commission
jill.springer@fcc.gov

1) See Accelerating Wireless Broadband Deployment by Removing Barriers to Infrastructure Deployment, Second Report and Order, FCC 18-30 (Mar. 30, 2018) (Wireless Infrastructure Second Report and Order).

2) See *id.* at paras. 111-112.

LIST OF PROPOSED COMMUNICATIONS TOWERS

TCNS# 231123 Referred Date: 06/30/2021 Location: 1330 Maryland Avenue SW, Washington, DC

Detailed Description of Project: 7WDC113B - Proposed modification to an existing rooftop telecommunication site.

No ground disturbance proposed.

Tribe Name: Cultural Heritage Partners

TCNS# 231195 Referred Date: 06/30/2021 Location: 1101 King Street, Alexandria, VA

Detailed Description of Project: 7WAC014A - T-Mobile proposes modifications to an existing telecommunications facility. Please note that no ground disturbance is proposed for this project.

Tribe Name: Catawba Indian Nation

Tribe Name: Chickahominy Indian Tribe

Tribe Name: Cultural Heritage Partners

Tribe Name: Delaware Nation

Tribe Name: Nansemond Indian Tribe

Tribe Name: Shawnee Tribe

Tribe Name: The Upper Mattaponi Indian Tribe

TCNS# 230709 Referred Date: 06/30/2021 Location: 1911 North Fort Myer Drive, Arlington, VA

Detailed Description of Project: 7WAC398B - T-Mobile proposes modifications to an existing telecommunications facility. No ground disturbance is proposed for this project.

Tribe Name: Nansemond Indian Tribe

TCNS# 230709 Referred Date: 06/24/2021 Location: 1911 North Fort Myer Drive, Arlington, VA

Detailed Description of Project: 7WAC398B - T-Mobile proposes modifications to an existing telecommunications facility. No ground disturbance is proposed for this project.

Tribe Name: Chickahominy Indian Tribe

Tribe Name: Cultural Heritage Partners

Tribe Name: Delaware Nation

Tribe Name: Shawnee Tribe

Tribe Name: The Upper Mattaponi Indian Tribe

TCNS# 230708 Referred Date: 06/24/2021 Location: Edmonston Road, Greenbelt, MD

Detailed Description of Project: 7WAS039C - T-Mobile proposes modifications to an existing telecommunications facility. No ground disturbance is proposed for this project.

Tribe Name: Cultural Heritage Partners

Tribe Name: Shawnee Tribe

Tribe Name: Wyandotte Nation

LEGEND:

* - Notification numbers are assigned by the Commission staff for sites where initial contact was not made through TCNS.



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May 21, 2021

Kim Jumper
Shawnee Tribe
29 South 69A Highway
Miami, Oklahoma

Subject: **TCNS ID # 230708, Project Information
Proposed Modification Site – Sprint “7WAS039C”
Edmonston Road
Greenbelt, Maryland 20770
39°01'01.2" North 76°51'39.1" West
AEC Project No. CL-2021-005**

To Whom It May Concern:

Advantage Environmental Consultants, LLC (AEC), on behalf of T-Mobile Northeast, LLC, respectfully requests your comment on the above-referenced project. The project was initially uploaded into the TCNS system on April 29, 2021. T-Mobile proposes the modification of an existing telecommunications facility on the existing water tank located at the above-referenced coordinates. T-Mobile proposes replacing six existing antennas (three 56-inch tall by 12-inch wide, three 96.6-inch tall by 11.9-inch wide) with six new antennas (three 95.9-inch tall by 24-inch wide, and three 33.1-inch tall by 20.5-inch wide) on existing mounts. T-Mobile also proposes the addition of three new RRUs and two replacement equipment cabinets. Please note that no ground disturbance is proposed for this project.

The Site consists of a 152.2-foot-tall water tower located approximately 1,200 feet southwest from the intersection of Baltimore Washington Parkway and Beaver Dam Road. I have enclosed the FCC Form 621 for your review.

We look forward to receiving your written response so that we can best address the concerns of the Shawnee Tribe. Please address your response to my attention at the address listed on the letterhead below, or email me at cmoses@aec-env.com. If you have any questions, please call me at (301) 776-0500. Thank you for your assistance.

Sincerely,
ADVANTAGE ENVIRONMENTAL CONSULTANTS, LLC

Catherine Moses

Catherine Moses
Staff Scientist

From: towernotifyinfo@fcc.gov
To: cmoses@aec-env.com
Cc: tcnsweekly@fcc.gov
Subject: Proposed Construction of Communications Facilities Notification of Final Contacts - Email ID #29680
Date: Thursday, July 1, 2021 9:19:30 AM

T-Mobile Northeast, LLC
Catherine Moses
8610 Washington Boulevard
Suite 217
Jessup, MD 20794

Dear Applicant:

This letter addresses the proposed communications facilities listed below that you have referred to the Federal Communications Commission (Commission) for purposes of contacting federally recognized Indian Tribes, including Alaska Native Villages (collectively Indian Tribes), and Native Hawaiian Organizations (NHOs), as specified by Section IV.G of the Nationwide Programmatic Agreement (NPA). Consistent with the procedures outlined in the Commission's Wireless Infrastructure Second Report and Order (1), we have contacted the Indian Tribes or NHOs identified in the attached Table for the projects listed in the attached Table. You referred these projects to us between 06/24/2021 and 07/01/2021. Our contact with these Tribal Nations or NHOs was sent on 07/01/2021.

Thus, as described in the Wireless Infrastructure Second Report and Order (2), if you or Commission staff do not receive a statement of interest regarding a particular project from any Tribe or NHO within 15 calendar days of 07/01/2021, your obligations under Section IV of the NPA with respect to these Tribal Nations or NHOs are complete. If a Tribal Nation or NHO responds that it has concerns about a historic property of traditional religious and cultural significance that may be affected by the proposed construction within the 15 calendar day period, the Applicant must involve it in the review as set forth in the NPA, and may not begin construction until the process set forth in the NPA is completed.

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Sincerely,
Jill Springer
Federal Preservation Officer
Federal Communications Commission
jill.springer@fcc.gov

1) See Accelerating Wireless Broadband Deployment by Removing Barriers to Infrastructure Deployment, Second Report and Order, FCC 18-30 (Mar. 30, 2018) (Wireless Infrastructure Second Report and Order).

2) See *id.* at paras. 111-112.

LIST OF PROPOSED COMMUNICATIONS TOWERS

TCNS# 231123 Referred Date: 06/30/2021 Location: 1330 Maryland Avenue SW, Washington, DC

Detailed Description of Project: 7WDC113B - Proposed modification to an existing rooftop telecommunication site.

No ground disturbance proposed.

Tribe Name: Cultural Heritage Partners

TCNS# 231195 Referred Date: 06/30/2021 Location: 1101 King Street, Alexandria, VA

Detailed Description of Project: 7WAC014A - T-Mobile proposes modifications to an existing telecommunications facility. Please note that no ground disturbance is proposed for this project.

Tribe Name: Catawba Indian Nation

Tribe Name: Chickahominy Indian Tribe

Tribe Name: Cultural Heritage Partners

Tribe Name: Delaware Nation

Tribe Name: Nansemond Indian Tribe

Tribe Name: Shawnee Tribe

Tribe Name: The Upper Mattaponi Indian Tribe

TCNS# 230709 Referred Date: 06/30/2021 Location: 1911 North Fort Myer Drive, Arlington, VA

Detailed Description of Project: 7WAC398B - T-Mobile proposes modifications to an existing telecommunications facility. No ground disturbance is proposed for this project.

Tribe Name: Nansemond Indian Tribe

TCNS# 230709 Referred Date: 06/24/2021 Location: 1911 North Fort Myer Drive, Arlington, VA

Detailed Description of Project: 7WAC398B - T-Mobile proposes modifications to an existing telecommunications facility. No ground disturbance is proposed for this project.

Tribe Name: Chickahominy Indian Tribe

Tribe Name: Cultural Heritage Partners

Tribe Name: Delaware Nation

Tribe Name: Shawnee Tribe

Tribe Name: The Upper Mattaponi Indian Tribe

TCNS# 230708 Referred Date: 06/24/2021 Location: Edmonston Road, Greenbelt, MD

Detailed Description of Project: 7WAS039C - T-Mobile proposes modifications to an existing telecommunications facility. No ground disturbance is proposed for this project.

Tribe Name: Cultural Heritage Partners

Tribe Name: Shawnee Tribe

Tribe Name: Wyandotte Nation

LEGEND:

* - Notification numbers are assigned by the Commission staff for sites where initial contact was not made through TCNS.



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May 21, 2021

Dr. Brice M Obermeyer
Delaware Tribe of Indians of Oklahoma
1 Kellogg Drive Roosevelt Hall, Room 212
Emporia, Kansas

Subject: **TCNS ID # 230708, Project Information
Proposed Modification Site – Sprint “7WAS039C”
Edmonston Road
Greenbelt, Maryland 20770
39°01'01.2" North 76°51'39.1" West
AEC Project No. CL-2021-005**

To Whom It May Concern:

Advantage Environmental Consultants, LLC (AEC), on behalf of T-Mobile Northeast, LLC, respectfully requests your comment on the above-referenced project. The project was initially uploaded into the TCNS system on April 29, 2021. T-Mobile proposes the modification of an existing telecommunications facility on the existing water tank located at the above-referenced coordinates. T-Mobile proposes replacing six existing antennas (three 56-inch tall by 12-inch wide, three 96.6-inch tall by 11.9-inch wide) with six new antennas (three 95.9-inch tall by 24-inch wide, and three 33.1-inch tall by 20.5-inch wide) on existing mounts. T-Mobile also proposes the addition of three new RRUs and two replacement equipment cabinets. Please note that no ground disturbance is proposed for this project.

The Site consists of a 152.2-foot-tall water tower located approximately 1,200 feet southwest from the intersection of Baltimore Washington Parkway and Beaver Dam Road. I have enclosed the FCC Form 621 for your review.

We look forward to receiving your written response so that we can best address the concerns of the Delaware Tribe of Indians of Oklahoma. Please address your response to my attention at the address listed on the letterhead below, or email me at cmoses@aec-env.com. If you have any questions, please call me at (301) 776-0500. Thank you for your assistance.

Sincerely,
ADVANTAGE ENVIRONMENTAL CONSULTANTS, LLC

Catherine Moses

Catherine Moses
Staff Scientist



#

#

May 21, 2021

Ellen Chapman
Program Manager
Cultural Heritage Partners
1811 East Grace St Suite A
Richmond, Virginia

Subject: **TCNS ID # 230708, Project Information
Proposed Modification Site – Sprint “7WAS039C”
Edmonston Road
Greenbelt, Maryland 20770
39°01'01.2" North 76°51'39.1" West
AEC Project No. CL-2021-005**

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We look forward to receiving your written response so that we can best address the concerns of the Cultural Heritage Partners. Please address your response to my attention at the address listed on the letterhead below, or email me at cmoses@aec-env.com. If you have any questions, please call me at (301) 776-0500. Thank you for your assistance.

Sincerely,
ADVANTAGE ENVIRONMENTAL CONSULTANTS, LLC

Catherine Moses

Catherine Moses
Staff Scientist

From: towernotifyinfo@fcc.gov
To: cmoses@aec-env.com
Cc: tcnsweekly@fcc.gov
Subject: Proposed Construction of Communications Facilities Notification of Final Contacts - Email ID #29680
Date: Thursday, July 1, 2021 9:19:30 AM

T-Mobile Northeast, LLC
Catherine Moses
8610 Washington Boulevard
Suite 217
Jessup, MD 20794

Dear Applicant:

This letter addresses the proposed communications facilities listed below that you have referred to the Federal Communications Commission (Commission) for purposes of contacting federally recognized Indian Tribes, including Alaska Native Villages (collectively Indian Tribes), and Native Hawaiian Organizations (NHOs), as specified by Section IV.G of the Nationwide Programmatic Agreement (NPA). Consistent with the procedures outlined in the Commission's Wireless Infrastructure Second Report and Order (1), we have contacted the Indian Tribes or NHOs identified in the attached Table for the projects listed in the attached Table. You referred these projects to us between 06/24/2021 and 07/01/2021. Our contact with these Tribal Nations or NHOs was sent on 07/01/2021.

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Sincerely,
Jill Springer
Federal Preservation Officer
Federal Communications Commission
jill.springer@fcc.gov

1) See Accelerating Wireless Broadband Deployment by Removing Barriers to Infrastructure Deployment, Second Report and Order, FCC 18-30 (Mar. 30, 2018) (Wireless Infrastructure Second Report and Order).

2) See *id.* at paras. 111-112.

LIST OF PROPOSED COMMUNICATIONS TOWERS

TCNS# 231123 Referred Date: 06/30/2021 Location: 1330 Maryland Avenue SW, Washington, DC

Detailed Description of Project: 7WDC113B - Proposed modification to an existing rooftop telecommunication site.

No ground disturbance proposed.

Tribe Name: Cultural Heritage Partners

TCNS# 231195 Referred Date: 06/30/2021 Location: 1101 King Street, Alexandria, VA

Detailed Description of Project: 7WAC014A - T-Mobile proposes modifications to an existing telecommunications facility. Please note that no ground disturbance is proposed for this project.

Tribe Name: Catawba Indian Nation

Tribe Name: Chickahominy Indian Tribe

Tribe Name: Cultural Heritage Partners

Tribe Name: Delaware Nation

Tribe Name: Nansemond Indian Tribe

Tribe Name: Shawnee Tribe

Tribe Name: The Upper Mattaponi Indian Tribe

TCNS# 230709 Referred Date: 06/30/2021 Location: 1911 North Fort Myer Drive, Arlington, VA

Detailed Description of Project: 7WAC398B - T-Mobile proposes modifications to an existing telecommunications facility. No ground disturbance is proposed for this project.

Tribe Name: Nansemond Indian Tribe

TCNS# 230709 Referred Date: 06/24/2021 Location: 1911 North Fort Myer Drive, Arlington, VA

Detailed Description of Project: 7WAC398B - T-Mobile proposes modifications to an existing telecommunications facility. No ground disturbance is proposed for this project.

Tribe Name: Chickahominy Indian Tribe

Tribe Name: Cultural Heritage Partners

Tribe Name: Delaware Nation

Tribe Name: Shawnee Tribe

Tribe Name: The Upper Mattaponi Indian Tribe

TCNS# 230708 Referred Date: 06/24/2021 Location: Edmonston Road, Greenbelt, MD

Detailed Description of Project: 7WAS039C - T-Mobile proposes modifications to an existing telecommunications facility. No ground disturbance is proposed for this project.

Tribe Name: Cultural Heritage Partners

Tribe Name: Shawnee Tribe

Tribe Name: Wyandotte Nation

LEGEND:

* - Notification numbers are assigned by the Commission staff for sites where initial contact was not made through TCNS.

ATTACHMENT 3

Resumes of Key Staff

Radio Frequency Emissions Analysis Report

T-Mobile Wireless Tower Facility

August 12, 2021

Analysis Format: Theoretical Calculations

	Sign Count	
		1
		0
		1
		0
		1

Statement of Compliance

T-Mobile will be compliant with FCC Regulations once the mitigation measures recommended in this report are implemented.

7WAS039C
 USDA - Laurel
 Edmonston Rd., Greenbelt, MD 20770

Contents

Overview.....	3
FCC Guidelines.....	4
Calculation Methodology & Data	5
Results	7
APPENDIX A: Emissions Thresholds for Walking Surfaces and Signage.....	8
Compliance Actions.....	21
APPENDIX B: RF Signage Description Table	22
APPENDIX C: FCC Emissions Threshold Limits.....	24
APPENDIX D: Certifications.....	26

Overview

Centerline Communications, LLC ("Centerline") has been contracted to provide a Radio Frequency (RF) Analysis for the following T-Mobile wireless tower facility to determine whether the facility is in compliance with federal standards and regulations regarding RF emissions. This analysis includes theoretical emissions calculations for all existing equipment for T-Mobile .

The facility is located on a Water Tank in Greenbelt, Maryland. Access to the facility is restricted to authorized personnel and facility management.

Analysis Site Data

Site ID:	7WAS039C
Site Name:	USDA - Laurel
Site Address:	Edmonston Rd., Greenbelt, MD 20770
Site Latitude:	39.017000
Site Longitude:	-76.86086
Facility Type:	Tower

Compliance Summary

Status:	T-Mobile will be compliant with FCC Regulations Upon Installation of Barriers and Sigange
Site Modeled Composite MPE% (General Public Limit):	10.64 %
T-Mobile Max Modeled MPE% (General Public Limit):	10.64 %
Lock or Control Measures if Present:	Unlocked Gate

In addition to the T-Mobile antennas and radio equipment there are antennas and radio equipment for AT&T, Sprint, Verizon, & Unknown Carrier(s) which have been included in this analysis as part of the overall site compliance determination.

*To be conservative, all sites are considered uncontrolled for modeling purposes unless confirmed otherwise by a site visit.

FCC Guidelines

All power density values used in this report were analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01 and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The number of $\mu\text{W}/\text{cm}^2$ calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits, therefore it is necessary to report results and limits in terms of percent MPE rather than power density.

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) – (b)(3), to determine compliance with the Maximum Permissible Exposure (MPE) limits for General Population/Uncontrolled environments as defined below.

General Population/Uncontrolled exposure limits apply to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general public would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Public exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The general population exposure limit for the 600, 700, and 800 MHz Bands is approximately 400 $\mu\text{W}/\text{cm}^2$, 467 $\mu\text{W}/\text{cm}^2$, and 567 $\mu\text{W}/\text{cm}^2$ respectively, and the general population exposure limit for the 1900 MHz PCS, 2100 MHz AWS, 2500 MHz, 3500 MHz CBRS, 5000 MHz LAA, 28GHz, and 39GHz bands is 1000 $\mu\text{W}/\text{cm}^2$. Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density. Reference the Site Antenna Data Table for list of frequencies in operation at this site.

Occupational/Controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure, have been properly trained in RF safety and can exercise control over their exposure. Occupational/Controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure, have been trained in RF safety and can exercise control over his or her exposure by leaving the area or by some other appropriate means. The Occupational/Controlled exposure limits all utilized frequency bands is five (5) times the FCC's General Public / Uncontrolled exposure limit.

Additional details can be found in FCC OET 65.

Calculation Methodology & Data

Centerline has performed theoretical calculations on all transmission equipment located on this facility. All calculations have been performed using the RoofMaster® software from Waterford Consultants LLC. This software performs calculations using a cylindrical model for very conservative power density predictions within the near-field of the antenna where the antenna pattern has not truly formed yet. Within this area power density values tend to decrease based upon an inverse distance function. At the point where it is appropriate for modeling to change from near-field calculations to far-field calculations the power decreases inversely with the square of the distance. This modeling technique is accurate with low antenna centerlines, such as rooftops, where persons can get close to the antennas and pass through fields in close proximity.

The below calculation in Figure 1 shows the theoretical distribution of power over an imaginary cylinder with equal power distribution in all directions.

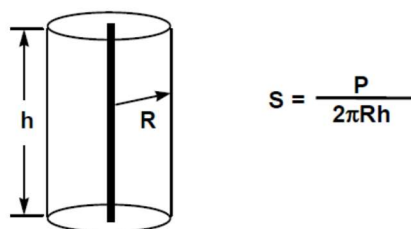


Figure 1: Distribution of power over an imaginary cylinder in all directions

This model can be modified for directional antennas to show directionality of power distribution. This formula will tend to be conservative as it assumes that all power is focused between the 3 dB power roll off points as shown in Figure 2.

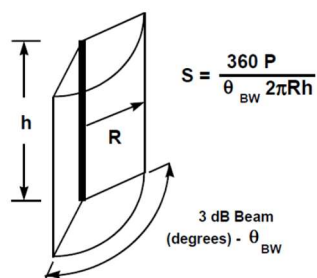


Figure 2: Distribution of power over an imaginary cylinder in all directions inside the half power roll off points (HBW)

The **proposed antenna configuration** for T-Mobile and any other known wireless carriers at this facility are shown below in **Table 1 – Site Antenna Data Table**.

All calculations for this facility were performed assuming that all radios were running at full power and were uncombined in their RF paths with the configuration shown in table 1. FCC OET Bulletin 65 – Edition 97-01 recommends that modeling of this nature should be done as described prior to yield a worst-case scenario. Due to the dynamic nature of many deployed systems the “real world” values will most likely be less than those shown in this report due to worst-case values being shown in all instances.

For all “Other” systems on this facility, exact equipment was used if available. In instances where “Other” system equipment was not available, standard radio configurations for these systems were utilized based upon prior experience with these systems on facilities in this area.

Site Antenna Data Table

Sector	Operator	Frequency Band	TX Power Per Channel	Tx #	ERP	Antenna Make	Antenna Model	Gain (dBd)	Az (°)	Antenna Centerline Height (ft)	Z Value (ft)**
A1	T-Mobile	L2500	30	1	1004.90	ERICSSON	AIR6449 LTE BrM	15.25	70	135	128.62
A1	T-Mobile	N2500	30	1	1004.90	ERICSSON	AIR6449 NR BrM	15.25	70	135	128.62
A1	T-Mobile	L2500	90	1	15461.18	ERICSSON	SON AIR6449 LTE	22.35	70	135	128.62
A1	T-Mobile	N2500	90	1	15461.18	ERICSSON	SON AIR6449 NR	22.35	70	135	128.62
A2	T-Mobile	L700	40	4	3389.38	RFS	APXVAARR24 43-U-NA20	13.26	70	135	126.00
A2	T-Mobile	L600	40	2	1610.98	RFS	APXVAARR24 43-U-NA20	13.04	70	135	126.00
A2	T-Mobile	N600	30	2	1208.23	RFS	APXVAARR24 43-U-NA20	13.04	70	135	126.00
A3	T-Mobile	U1900	40	1	1355.38	COMMSCOPE	VV-65A-R1B	15.3	70	135	127.72
A3	T-Mobile	L2100	140	2	11121.36	COMMSCOPE	VV-65A-R1B	15.99	70	135	127.72
A3	T-Mobile	L1900	140	2	9487.64	COMMSCOPE	VV-65A-R1B	15.3	70	135	127.72
A3	T-Mobile	G1900	15	1	508.27	COMMSCOPE	VV-65A-R1B	15.3	70	135	127.72
B4	T-Mobile	L2500	30	1	1004.90	ERICSSON	AIR6449 LTE BrM	15.25	180	135	128.62
B4	T-Mobile	N2500	30	1	1004.90	ERICSSON	AIR6449 NR BrM	15.25	180	135	128.62
B4	T-Mobile	L2500	90	1	15461.18	ERICSSON	SON AIR6449 LTE TB	22.35	180	135	128.62
B4	T-Mobile	N2500	90	1	15461.18	ERICSSON	SON AIR6449 NR TB	22.35	180	135	128.62
B5	T-Mobile	L700	40	4	3389.38	RFS	APXVAARR24 43-U-NA20	13.26	180	135	126.00
B5	T-Mobile	L600	40	2	1610.98	RFS	APXVAARR24 43-U-NA20	13.04	180	135	126.00
B5	T-Mobile	N600	30	2	1208.23	RFS	APXVAARR24 43-U-NA20	13.04	180	135	126.00
B6	T-Mobile	U1900	40	1	1355.38	COMMSCOPE	VV-65A-R1B	15.3	180	135	127.72
B6	T-Mobile	L2100	140	2	11121.36	COMMSCOPE	VV-65A-R1B	15.99	180	135	127.72
B6	T-Mobile	L1900	140	2	9487.64	COMMSCOPE	VV-65A-R1B	15.3	180	135	127.72
B6	T-Mobile	G1900	15	1	508.27	COMMSCOPE	VV-65A-R1B	15.3	180	135	127.72
C7	T-Mobile	L2500	30	1	1004.90	ERICSSON	AIR6449 LTE BrM	15.25	320	135	128.62
C7	T-Mobile	N2500	30	1	1004.90	ERICSSON	AIR6449 NR BrM	15.25	320	135	128.62
C7	T-Mobile	L2500	90	1	15461.18	ERICSSON	SON AIR6449 LTE TB	22.35	320	135	128.62
C7	T-Mobile	N2500	90	1	15461.18	ERICSSON	SON AIR6449 NR TB	22.35	320	135	128.62
C8	T-Mobile	L700	40	4	3389.38	RFS	APXVAARR24 43-U-NA20	13.26	320	135	126.00
C8	T-Mobile	L600	40	2	1610.98	RFS	APXVAARR24 43-U-NA20	13.04	320	135	126.00
C8	T-Mobile	N600	30	2	1208.23	RFS	APXVAARR24 43-U-NA20	13.04	320	135	126.00
C9	T-Mobile	U1900	40	1	1355.38	COMMSCOPE	VV-65A-R1B	15.3	320	135	127.72
C9	T-Mobile	L2100	140	2	11121.36	COMMSCOPE	VV-65A-R1B	15.99	320	135	127.72
C9	T-Mobile	L1900	140	2	9487.64	COMMSCOPE	VV-65A-R1B	15.3	320	135	127.72
C9	T-Mobile	G1900	15	1	508.27	COMMSCOPE	VV-65A-R1B	15.3	320	135	127.72
10	Unknown	-850	60	1	1096.86	GENERIC	PANEL 6FT	12.62	70	120	112.00
11	Unknown	-850	60	1	1096.86	GENERIC	PANEL 6FT	12.62	70	120	112.00
12	Unknown	-850	60	1	1096.86	GENERIC	PANEL 6FT	12.62	70	120	112.00
13	Unknown	-850	60	1	1096.86	GENERIC	PANEL 6FT	12.62	180	100	92.00
14	Unknown	-850	60	1	1096.86	GENERIC	PANEL 6FT	12.62	180	100	92.00
15	Unknown	-850	60	1	1096.86	GENERIC	PANEL 6FT	12.62	320	100	92.00
16	Unknown	-850	60	1	1096.86	GENERIC	PANEL 6FT	12.62	320	100	92.00

*Table 1: Total Site Antenna data table **(Z Value is distance from bottom of antenna to walking surface)*

Results

All calculations performed based upon the data listed for this facility have produced results that are within allowable limits for General Population for exposure to RF emissions as specified by federal standards.

T-Mobile's RF Exposure: Responsibilities, Procedures & Guidelines document states that microwave dishes are compliant if they are mounted 20 feet or greater above any accessible walking or working surface.

Maximum Predicted MPE Level on Site:	% of MPE Limit:	Location:
Accessible General Population MPE Limits:	10.64%	Sector A
Accessible Occupational MPE Limits:	2.13%	

Ground Level Assessment:	% of MPE Limit:
Ground Level General Population MPE Limits:	0.15%
Ground Level Occupational MPE Limits:	0.03%

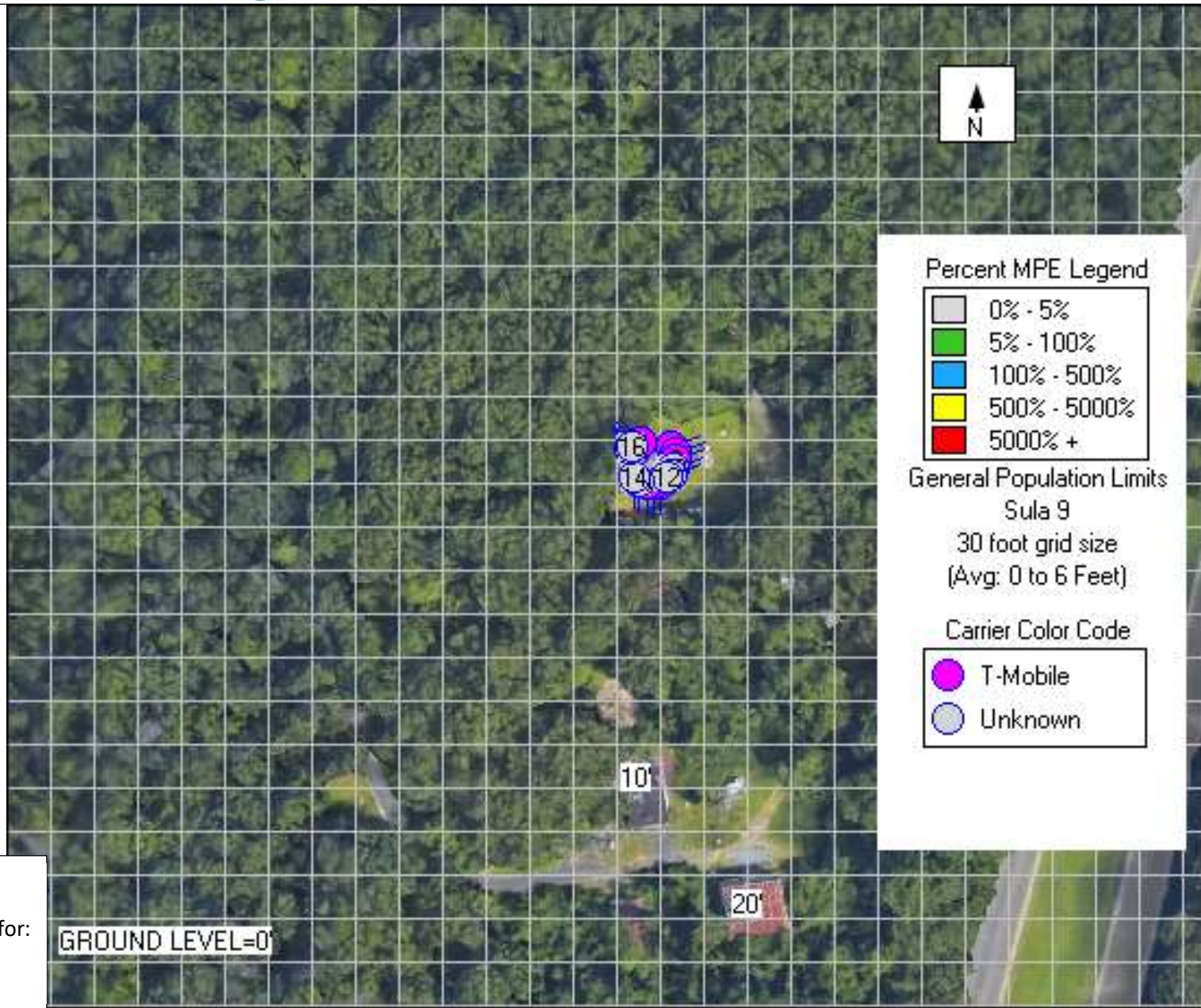
Sector A: Transmitting over Catwalk	% of MPE Limit:	*Distance from Antenna:
Accessible General Population MPE Limits:	10.64%	0
Accessible Occupational MPE Limits:	2.13%	0

Sector B: Transmitting over Catwalk	% of MPE Limit:	*Distance from Antenna:
Accessible General Population MPE Limits:	0.88%	0
Accessible Occupational MPE Limits:	0.18%	0

Sector C: Transmitting over Catwalk	% of MPE Limit:	*Distance from Antenna:
Accessible General Population MPE Limits:	3.41%	0
Accessible Occupational MPE Limits:	0.68%	0

**Distance from Antenna is the distance in feet that the MPE limits are exceeded from the front face of the antenna, outward across an accessible area.*

APPENDIX A: Emissions Thresholds for Walking Surfaces and Signage



Ground (0ft.)

Emissions Thresholds for Walking Surfaces for:

7WAS039C / USDA - Laurel



Rooftop (10ft.)

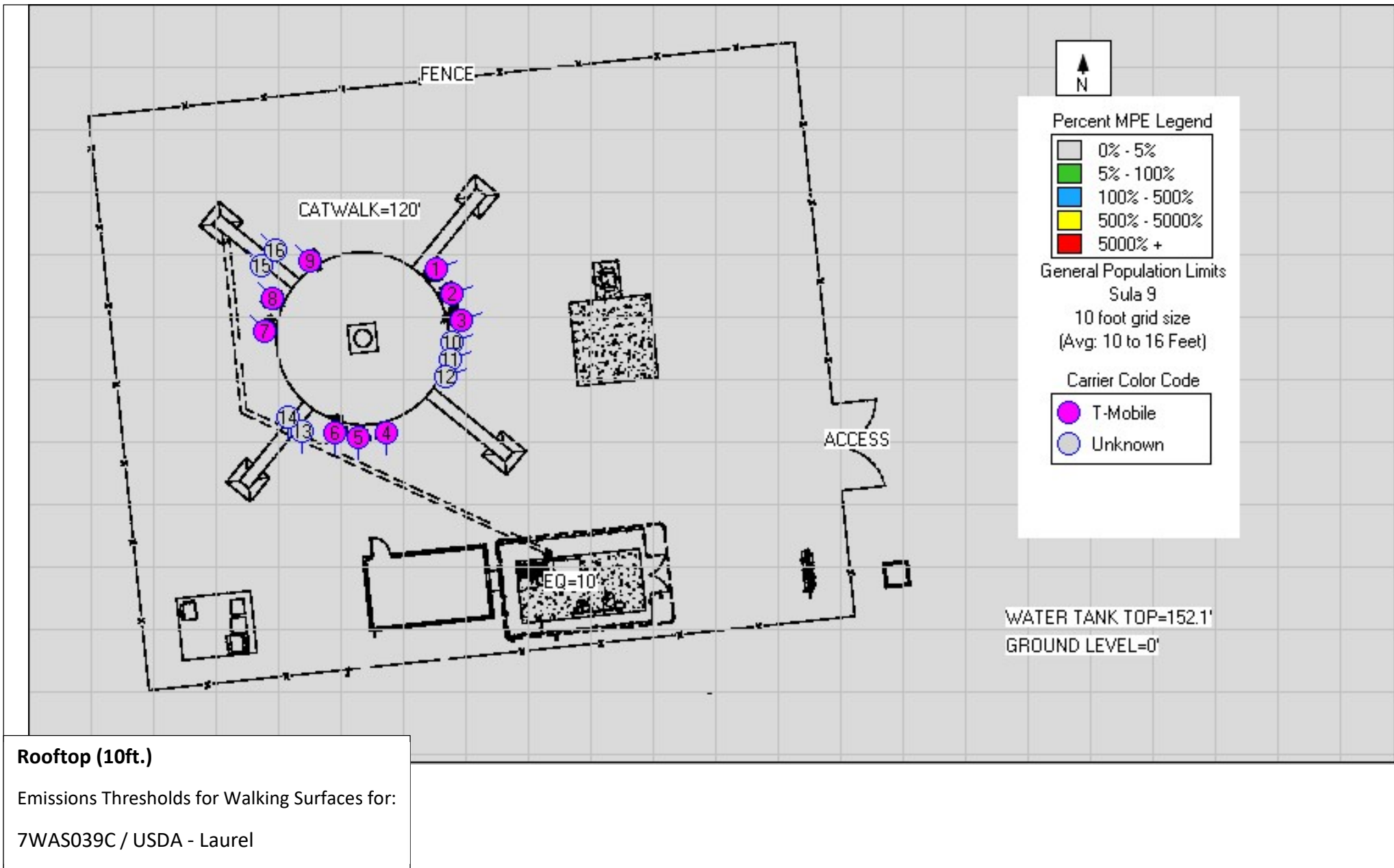
Emissions Thresholds for Walking Surfaces for:
7WAS039C / USDA - Laurel

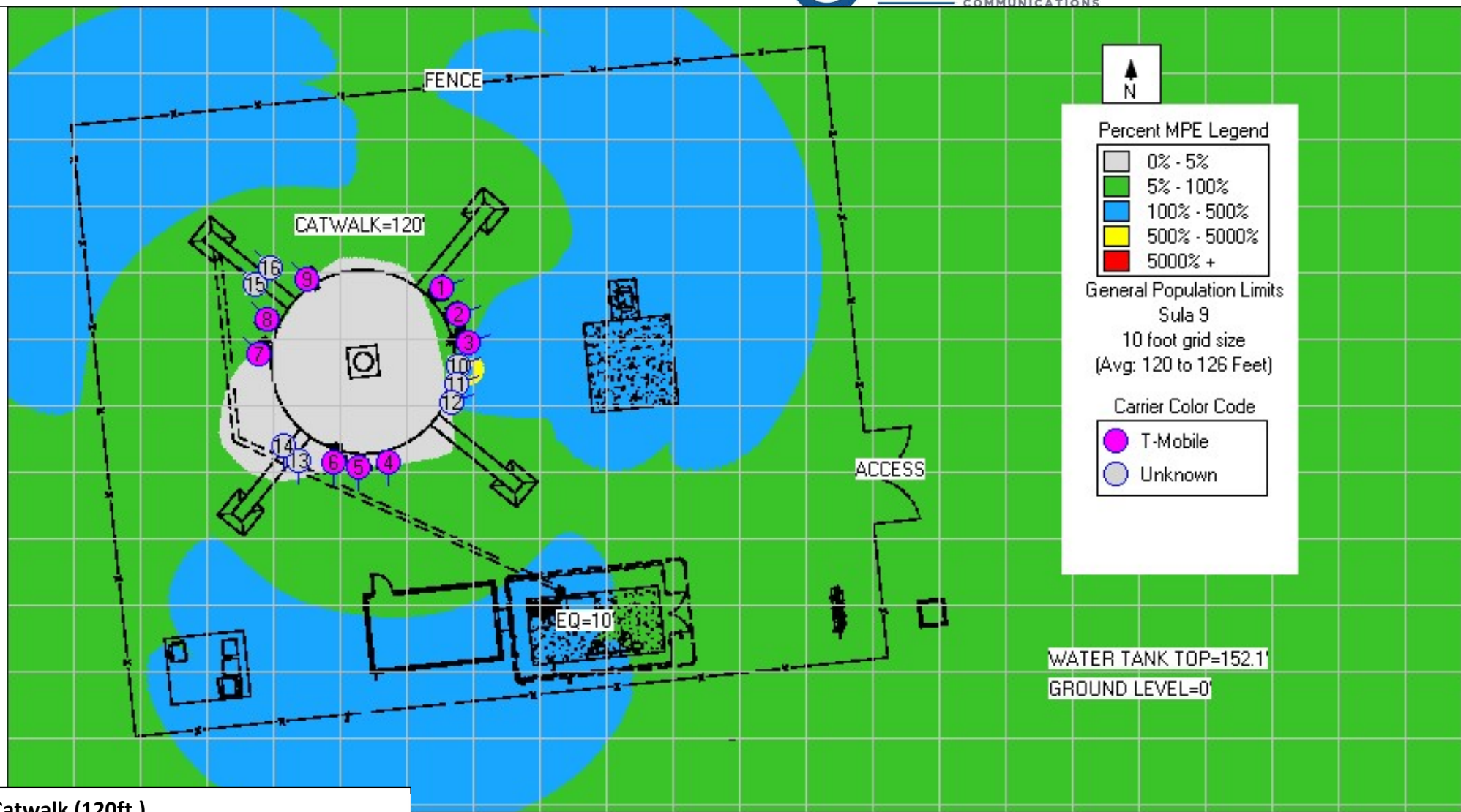






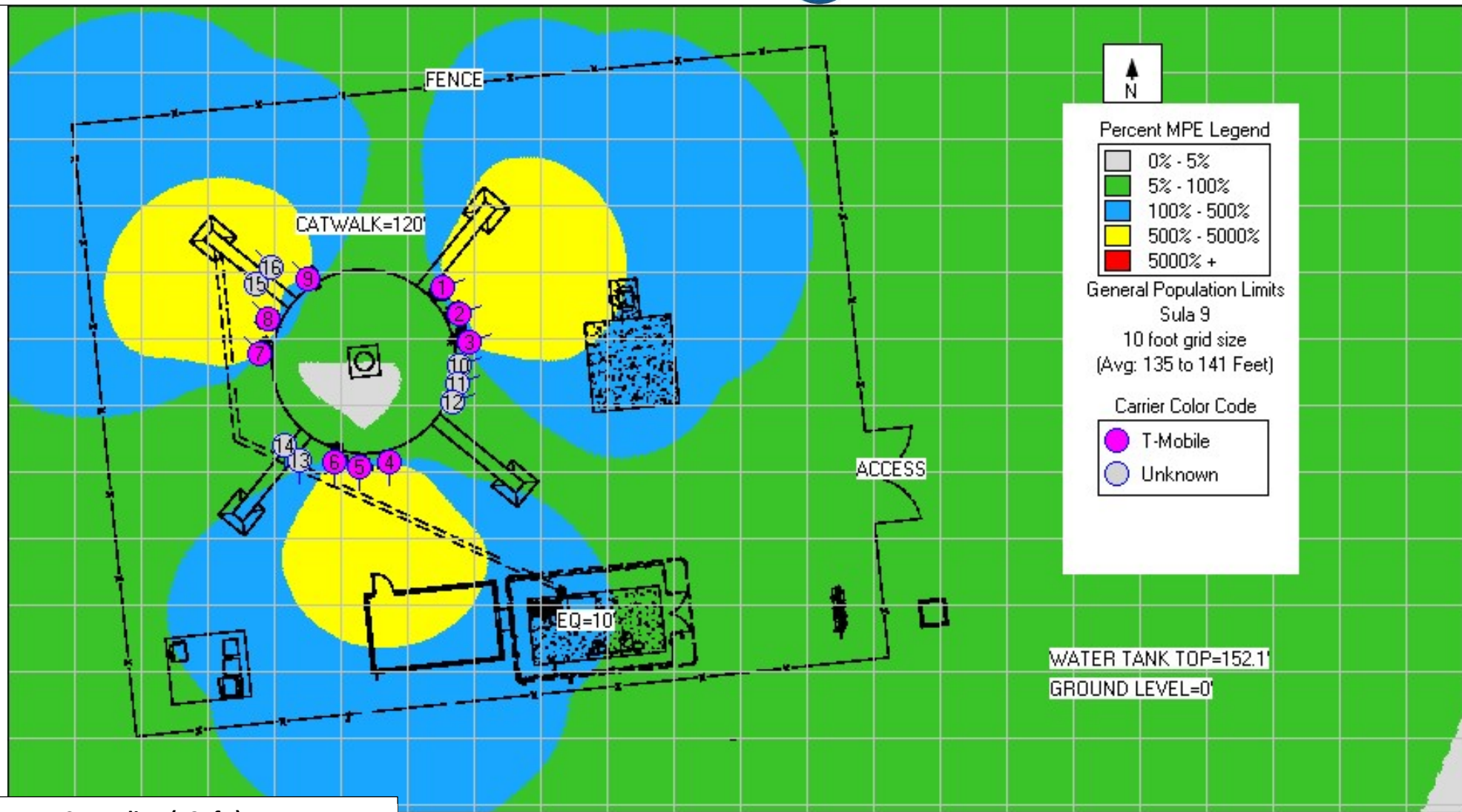


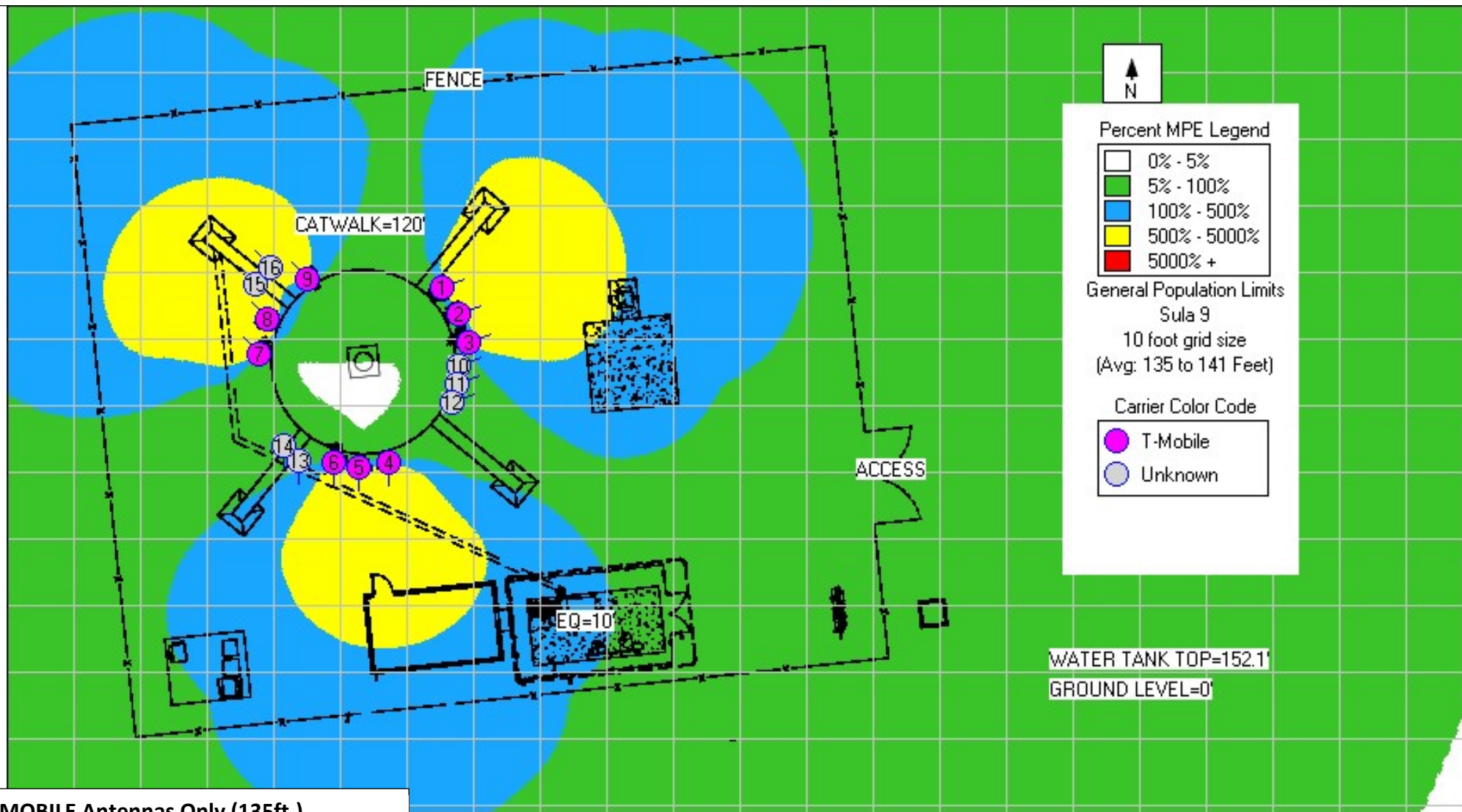


**Catwalk (120ft.)**

Emissions Thresholds for Walking Surfaces for:

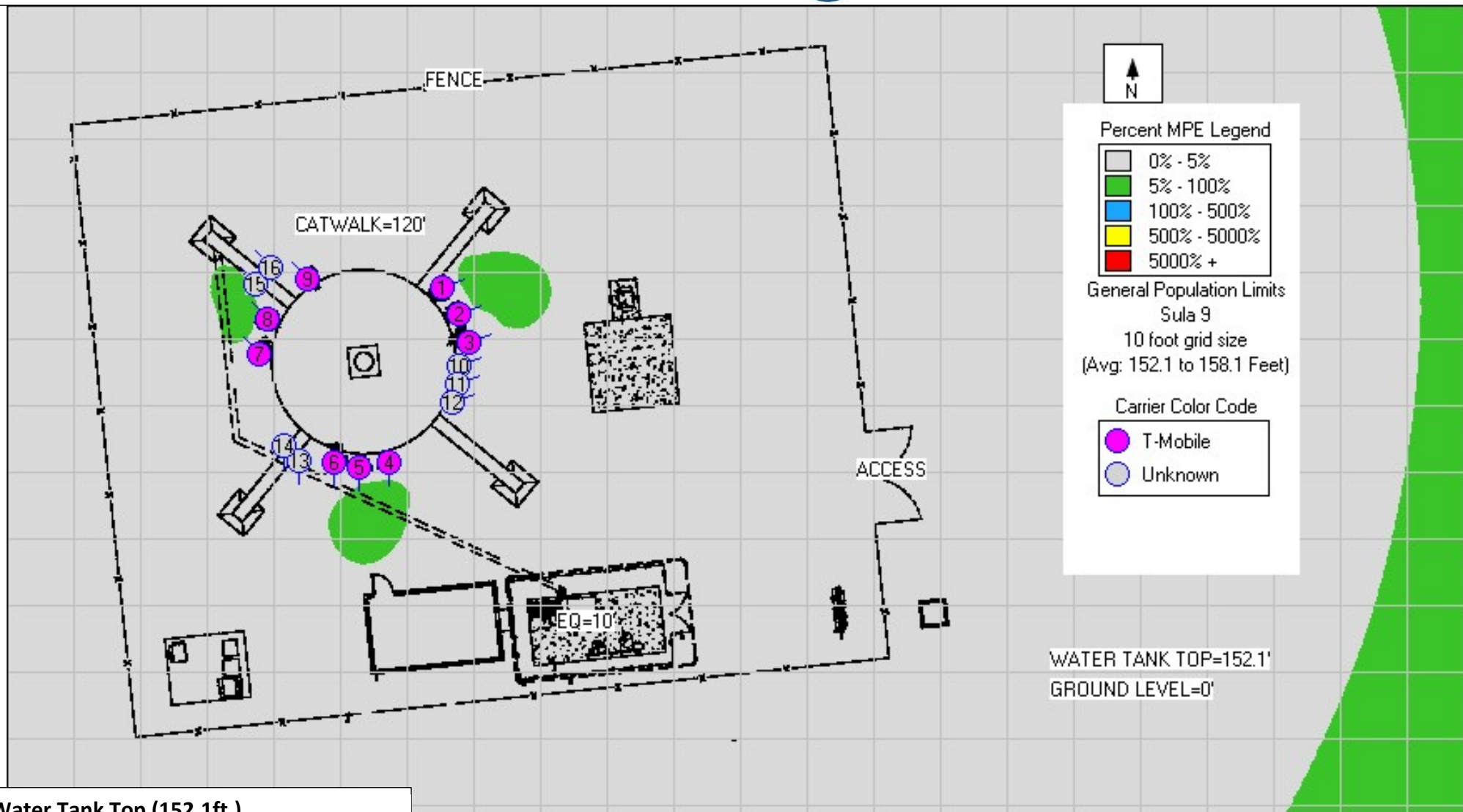
7WAS039C / USDA - Laurel

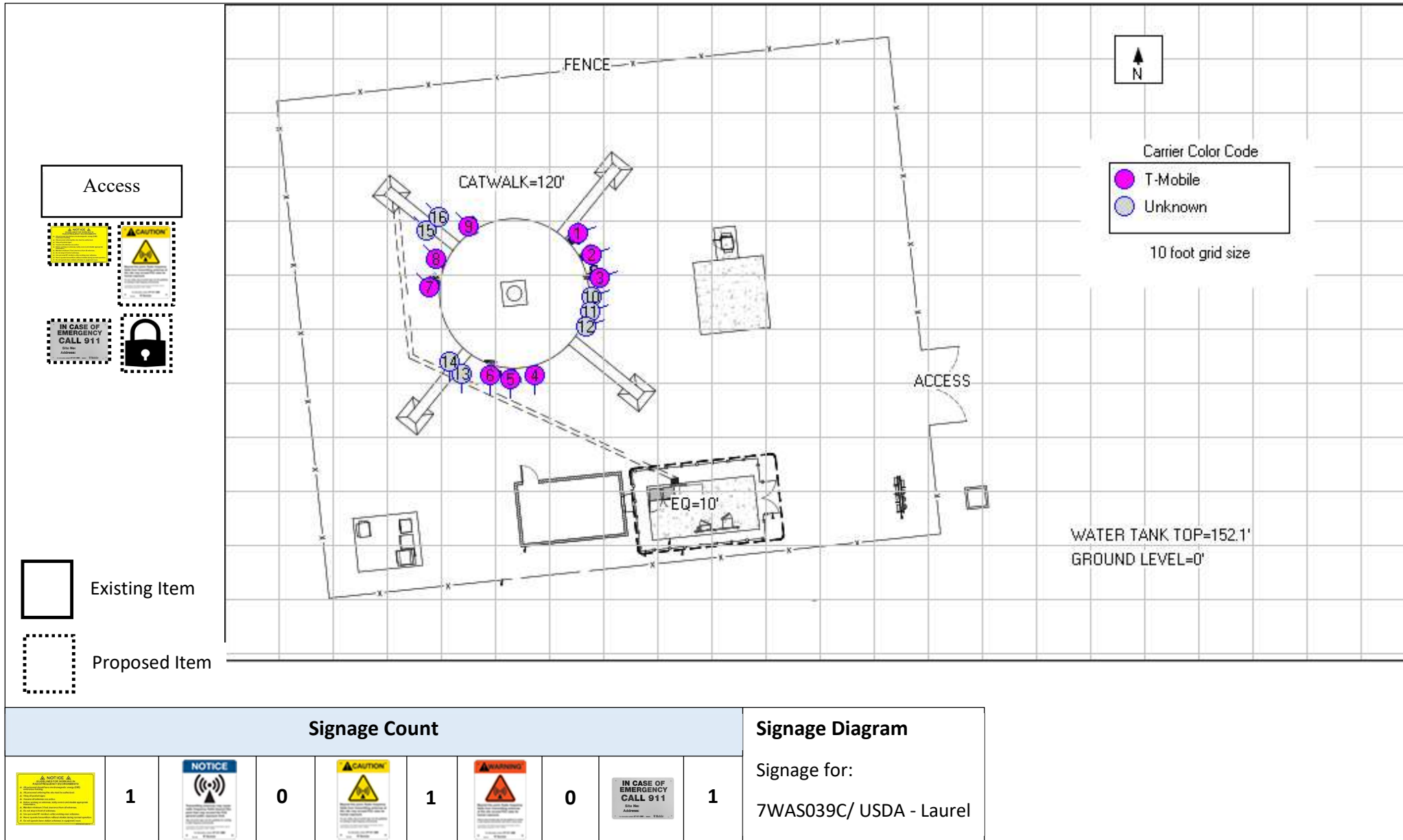


**TMOBILE Antennas Only (135ft.)**

Emissions Thresholds for Walking Surfaces for:

7WAS039C / USDA - Laurel





Compliance Actions

Access	• Ensure all access points are locked. • Install (1) Guideline sign on the inside of the access point. • Install (1) Caution sign on the inside of the access point. • Install (1) Emergency sign on the inside of the access point.
Alpha Sector	• No Action Needed.
Beta Sector	• No Action Needed.
Gamma Sector	• No Action Needed.
Notes:	• If there is a fixed climbing point located on this site, a Guideline and Caution sign should be installed at that location.

APPENDIX B: RF Signage Description Table

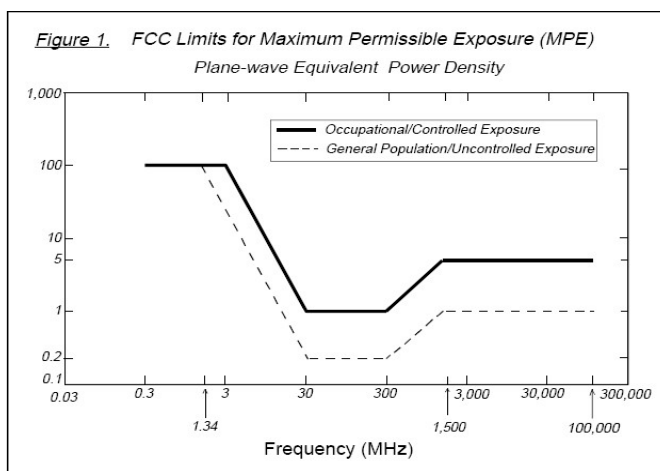
Sign	Description
	RF Guideline Sign Gives guidelines on how to proceed in areas that may exceed either the FCC's General Population or Occupational emissions limits.
	Emergency Sign Used to inform individuals to call 911 in case of emergency.
 	Blue Notice Sign Used to inform individuals that they are entering an area that may exceed the FCC's General Population limits. Must be placed anywhere the public can get within 30 feet vertically or horizontally of an antenna.
 	Yellow Caution Sign Used to inform individuals that they are entering an area that may exceed the either the FCC's General Population or Occupational Emissions limits. It must be placed so it is visible from all approachable sides. It must also be just outside of the area predicted to exceed the MPE limits so it can be read without standing within the affected area.
 	Orange Warning Sign (Previously Red) Used to inform individuals that they are entering an area that may exceed 5x the FCC's Occupational emissions limit. It must be placed so it is visible from all approachable sides. It must also be just outside of the area predicted to exceed the MPE limits so it can be read without standing within the affected area.

APPENDIX C: FCC Emissions Threshold Limits

Table 1: Limits for Maximum Permissible Exposure (MPE)				
(A) Limits for Occupational/Controlled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time [E] ² , [H] ² , or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f ²)*	6
30-300	61.4	0.163	1.0	6
300-1,500	--	--	f/300	6
1,500-100,000	--	--	5	6
(B) Limits for General Public/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time [E] ² , [H] ² , or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f ²)*	30
30-300	27.5	0.073	0.2	30
300-1,500	--	--	f/1,500	30
1,500-100,000	--	--	1.0	30

f = Frequency in (MHz)

* Plane-wave equivalent power density



APPENDIX D: Certifications

I, Huesee Yang, preparer of this report certify that I am fully trained and aware of the Rules and Regulations of both the Federal Communications Commissions (FCC) and the Occupational Safety and Health Administration (OSHA) with regard to Human Exposure to Radio Frequency Radiation. I have been trained in the procedures and requirements outlined in T-Mobile's FCC Regulatory Compliance Manual.

Huesee Yang

8/12/2021

I, Brandon Green, reviewer and approver of this report certify that I am fully trained and aware of the Rules and Regulations of both the Federal Communications Commissions (FCC) and the Occupational Safety and Health Administration (OSHA) with regard to Human Exposure to Radio Frequency Radiation. I have been trained in the procedures and requirements outlined in T-Mobile's FCC Regulatory Compliance Manual.

Brandon Green

8/12/2021