

FIFTH AMENDMENT TO LICENSE AGREEMENT FOR WIRELESS COMMUNICATON ANTENNA ON EXISTING WATER TOWER

THIS FIFTH AMENDMENT to License Agreement for Wireless Communication Antenna on Existing Water Tower ("Fifth Amendment") is made and entered into by and between **City of Cocoa**, a Florida municipal corporation ("Licensor"), and **T-Mobile South LLC**, a Delaware limited liability company ("Licensee").

RECITALS

The parties hereto recite, declare, and agree as follows:

WHEREAS, Licensor and Licensee (or as applicable, their respective predecessors in interest) entered into a License Agreement for Wireless Communication Antenna on Existing Water Tower dated August 11, 1997, (the "Lease"), as amended by that certain First Amendment to License Agreement for Wireless Communication Antenna on Existing Water Tower dated August 26, 2010, as amended by that certain Addendum to License Agreement for Wireless Communication Antenna on Existing Water Tower dated August 8, 2014, as amended by that certain Second Amendment dated December 13, 2016, as amended by the Third Amendment dated January 9, 2019, as amended by that certain Fourth Amendment dated March 9, 2021, (collectively, the "License Agreement"), with respect to Premises located at 318 Peachtree Street, Cocoa, FL 32922.

WHEREAS, Licensor and Licensee desire to enter into this Fifth Amendment in order to modify and amend certain provisions of the License Agreement.

NOW THEREFORE, in consideration of the mutual covenants and agreements herein contained and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Licensor and Licensee covenant and agree as follows:

1. Effective on the date that Licensee begins installation as specified on the attached Exhibit "5-A", which date Licensee shall notify Licensor in writing, Licensee will have the right to modify its Antenna Facilities as described and depicted on Exhibit "5-A", which is attached hereto and by this reference incorporated herein, and Licensor hereby consents to and approved of the modifications described and depicted on Exhibit "5-A" in all respects.
2. The terms and conditions of the License Agreement are incorporated herein by this reference, and capitalized terms used in this Fifth Amendment shall have the same meanings such terms are given in the License Agreement. Except as specifically set forth herein, this Fifth Amendment shall in no way modify, alter, or amend the remaining terms of the License Agreement, all of which are ratified by the parties and shall remain in full force and effect. To the extent there is any conflict between the terms and conditions of

the Lease and this Amendment, the terms and conditions of this Fifth Amendment will govern and control.

3. Licensor represents and warrants to Licensee that the consent or approval of no third party, including, without limitation, a lender, is required with respect to the execution of this Fifth Amendment, or if any such third party consent or approval is required, Licensor has obtained any and all such consents or approvals.

[SIGNATURE PAGES FOLLOW]

IN WITNESS WHEREOF, the parties have executed this Amendment effective as of the date of execution by the last party to sign.

City of Cocoa,

By: _____

Name: _____

Title: _____

Date: _____

T-Mobile South LLC,

By: [Signature]

Name: Jessie

Title: Director, Central Florida Network Operations

Date: 8/11/21

TMO Legal
2021.07.06
11:28:54
-04'00'



Witnesses:

Name: _____

Name: _____

Witnesses:

[Signature]

Name: Nicole Moller

[Signature]

Name: Michael Wilkerson

Exhibit 5-A

T-Mobile

T-MOBILE SITE NUMBER: A2C0020A
T-MOBILE SITE NAME: COCOA VILLAGE-WATERTANK
T-MOBILE PROJECT: MARKET SWAP

SITE ADDRESS: 318 PEACHTREE STREET
COUNTY: COCOA, FL 32922
SITE TYPE: BREVARD COUNTY
TOWER HEIGHT: WATERTANK
 165'-0"

T-Mobile

5901 BENJAMIN CENTER DR. #110 A-B,
TAMPA, FL 33634

smartlink

13877 Annapolis Exchange Parkway
Suite 200
Annapolis, MD 21406
410-293-0488

IRISH TOWER

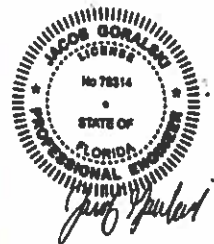
T-MOBILE SITE NUMBER:
A2C0020A

318 PEACHTREE STREET
COCOA, FL 32922

EXISTING 165'-0"
WATERTANK

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	REV FOR
1	04/02/2021	JGC	FINAL CDR	FIN



04/01/2021

IT IS A VIOLATION OF LAW FOR ANY PERSON, OTHER THAN THE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SHEET NUMBER:

T-1

REVISION:

0

SITE INFORMATION

SITE NAME: COCOA VILLAGE-WATERTANK
SITE ADDRESS: 318 PEACHTREE STREET
COCOA, FL 32922
COUNTY: BREVARD COUNTY
MAP/PARCEL #: 24-36-33-01-00000-0-003-0-00
AREA OF CONSTRUCTION: EXISTING
LA TITLE: 28 358-0375
LONGITUDE: -80 73 21 62 10"
LAT/LONG TYPE: NAD83
GROUND ELEVATION: 139' AMSL
CURRENT ZONING: CITY OF COCOA
JURISDICTION: U
OCCUPANCY CLASSIFICATION: ITS
TYPE OF CONSTRUCTION: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
A.D.A. COMPLIANCE: CITY OF COCOA
PROPERTY OWNER: 45 STONE ST
COCOA, FL 32922
TOWER OWNER: CITY OF COCOA
CARRIER/APPLICANT: T-MOBILE
5901 BENJAMIN CENTER DR. #110 A-B,
TAMPA, FL 33634

DRAWING INDEX

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ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR 2XCM. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.



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(800) 432-4778
CALL 1 WEEK BEFORE YOU DIG



LOCATION MAP



PROJECT TEAM

A&E FIRM: IRISH TOWER
468 BERMUDA DRIVE
SUGAR LAND, TX 77478
JACOB.GORALSKI@IRISHTOWER.COM
SMARTLINK CONTACTS: 1397 ANNAPOLIS EXCHANGE PARKWAY
SUITE 200
ANNAPOLIS, MD 21401
 KATHERINE LEBOVITZ - PROJECT MANAGER
KATHERINE.LEBOVITZ@SMARTLINKGROUP.COM
 — CONSTRUCTION MANAGER

PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT IS TO ENHANCE BROADBAND CONNECTIVITY AND CAPACITY TO THE EXISTING ELIGIBLE WIRELESS FACILITY.

ANTENNA SCOPE OF WORK:
 • REMOVE (6) ANTENNAS
 • REMOVE (1) ROLL
 • REMOVE (1) COV
 • REMOVE (1) HYBRID CABLES
 • INSTALL (6) ANTENNAS
 • INSTALL (1) ROLL
 • INSTALL (1) ERICSSON HYBRID TRUNK CABLES

EQUIPMENT SCOPE OF WORK:
 • REMOVE (4) EQUIPMENT CABINETS
 • REMOVE COV
 • INSTALL ERICSSON 6160 EQUIPMENT CABINET
 • INSTALL ERICSSON 6160 BATTERY CABINET
 • INSTALL PSU 48 11 IN 6160 CABINET
 • INSTALL NEW 200A PFC ON 11-FRAME

APPLICABLE CODES/REFERENCE DOCUMENTS

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

CODE TYPE:
BUILDING
MECHANICAL
ELECTRICAL

CODE:
2017 IBC, 7th EDITION
2017 IMC
2017 NEC

REFERENCE DOCUMENTS

MOUNT ANALYSIS: BUSH TOWER, LLC
 DATED: MAY 25, 2021 W/ MODIFICATIONS
 RFCS REVISION: 7
 DATED: 04/02/2021

GENERAL NOTES:

- FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
CONTRACTOR: GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION
OWNER: TAMPA
TOWER OWNER: CITY OF COCOA
- THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE ENGINEERS IN THIS OR SIMILAR LOCALITIES. IT IS ASSUMED THAT THE WORK DESCRIBED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKER/PEOPLE WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS SHOWN, (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.
- THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRANCHES, FORMWORK, SHORING, ETC. SITE VISITS BY THE ENGINEER OR HIS REPRESENTATIVE WILL NOT INCLUDE INSPECTION OF THESE ITEMS AND IS FOR STRUCTURAL OBSERVATION OF THE FINISHED STRUCTURE ONLY.
- NOTES AND DETAILS IN THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONTRACTOR SHALL CONFORM TO SIMILAR WORK ON THE PROJECT, AND/OR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES, AND SPECIFICATIONS, THE GREATER, MORE STRICT REQUIREMENTS, SHALL GOVERN. IF FURTHER CLARIFICATION IS REQUIRED, CONTACT THE ENGINEER OF RECORD.
- SUBSTANTIAL EFFORT HAS BEEN MADE TO PROVIDE ACCURATE DIMENSIONS AND MEASUREMENTS ON THE DRAWINGS TO ASSIST IN THE FABRICATION AND/OR PLACEMENT OF THE CONSTRUCTION ELEMENTS BUT IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE DIMENSIONS, MEASUREMENTS, AND/OR CLEARANCES SHOWN IN THE CONSTRUCTION DRAWINGS PRIOR TO FABRICATION OR CUTTING OF ANY NEW OR EXISTING CONSTRUCTION ELEMENTS. IF IT IS DETERMINED THAT THERE ARE DISCREPANCIES AND/OR CONFLICTS WITH THE CONSTRUCTION DRAWINGS THE ENGINEER OF RECORD IS TO BE NOTIFIED AS SOON AS POSSIBLE.
- PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR 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 CROWN CASTLE.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND UNLAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE NATIONAL AND UTILITY COMPANY SPECIFICATIONS AND ALL LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- IF SPECIAL EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CARRIER AND CROWN CASTLE PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
- CONTRACTOR IS TO PERFORM A SITE INVESTIGATION AND IS TO DETERMINE THE BEST ROUTING OF ALL CONDUITS FOR POWER, TELCO AND FOR GROUNDING CABLES AS SHOWN IN THE POWER, TELCO, AND SIGNALING PLANS.
- THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF CROWN CASTLE USA INC.
- CONTRACTOR SHALL LEGALLY AND PROPERLY REMOVE ALL OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER DEBRIS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
- CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 330, ASTM A191, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
- IF SPECIAL EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CARRIER AND CROWN CASTLE PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (PSI) OF 3000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE. NO MORE THAN 90 MINUTES SHALL ELAPSE FROM THE TIME OF PLACEMENT UNTIL THE CONCRETE IS COVERED OR PROTECTED BY A MEANS APPROVED BY THE ENGINEER OF RECORD. TEMPERATURE OF CONCRETE SHALL NOT EXCEED 90°F AT TIME OF PLACEMENT.
- CONCRETE EXPOSED TO FREEZE-THAW CYCLES SHALL CONTAIN AIR EXTRINSIC ADJUNCTS. AMOUNT OF AIR EXTRINSIC ADJUNCT TO BE BASED ON SIZE OF AGGREGATE AND F3 CLASS EXPOSURE (VERY SEVERE). CEMENT USED TO BE TYPE I PORTLAND CEMENT WITH A MAXIMUM WATER-TO-CEMENT RATIO (W/C) OF 0.45.
- ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615, ALL WELDED BARS (FABRIC TYPE) SHALL CONFORM TO ASTM A185. ALL SPLICES SHALL BE CLASS "B" TENSION SPLICES, UNLESS NOTED OTHERWISE. ALL HOOKS SHALL BE STANDARD 90 DEGREE HOOKS, UNLESS NOTED OTHERWISE. YIELD STRENGTH (FY) OF STANDARD DEFORMED BARS ARE AS FOLLOWS:
#4 BARS AND SMALLER 40 ksi
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GENERAL NOTES:

1. SUBJECT PROPERTY IS KNOWN AS PARCEL PIN, AS SHOWN ON THE JURISDICTION WEBSITE, AND IS SITUATED AT ADDRESS 1 ADDRESS 2.
2. THIS SITE DESIGN HAS BEEN PREPARED WITHOUT THE BENEFIT OF AN AS-BUILT SURVEY. SLIGHT VARIATIONS MAY EXIST BETWEEN THIS SITE PLAN AND TRUE DIMENSIONS IN THE FIELD. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS.
3. THE GENERAL CONTRACTOR MUST VERIFY ALL DIMENSIONS, CONDITIONS, AND ELEVATIONS BEFORE STARTING WORK. ALL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER AND SHALL BE RESOLVED BEFORE PROCEEDING WITH THE WORK. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER IN ACCORDANCE WITH ACCEPTED CONSTRUCTION PRACTICES.

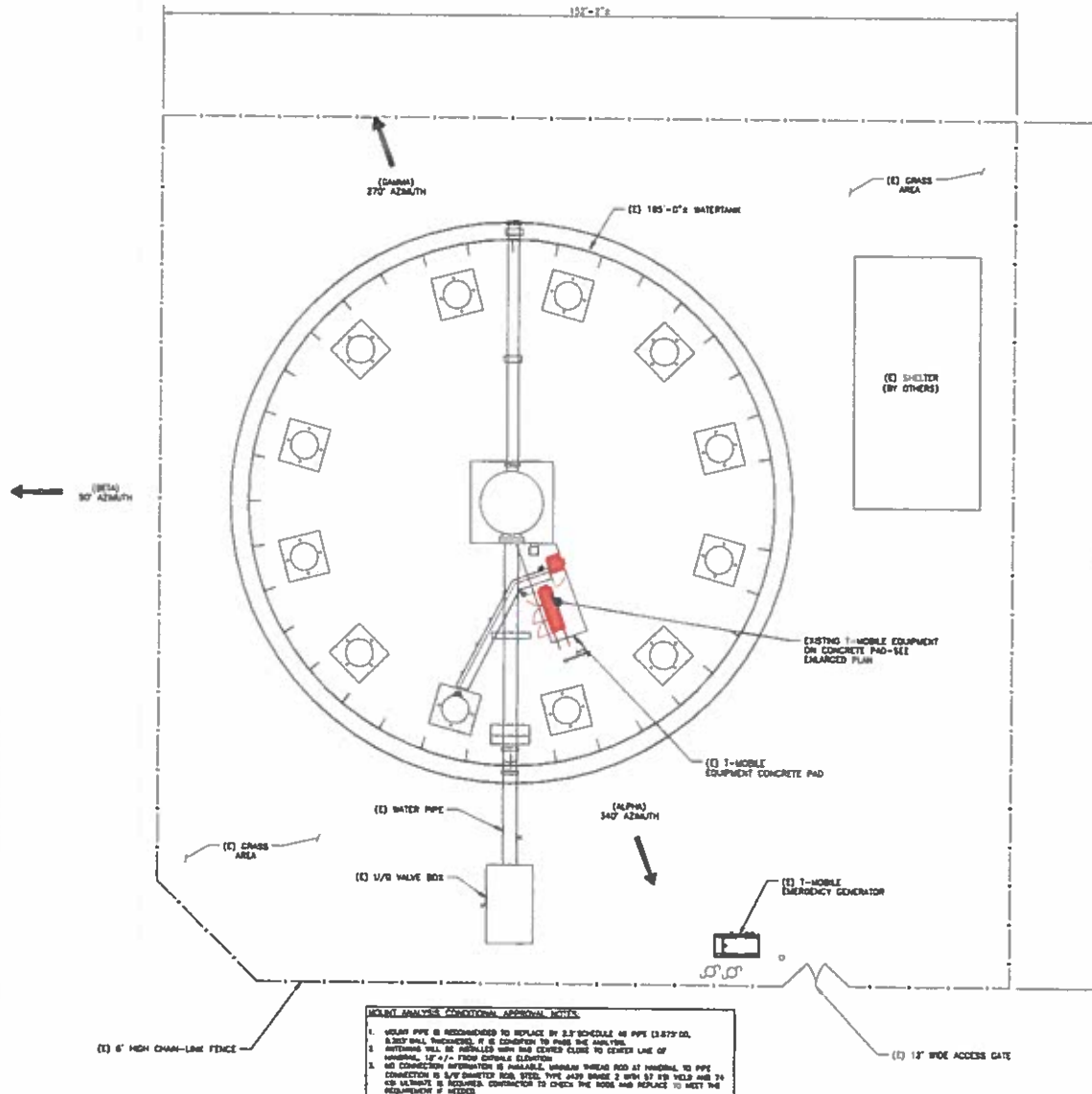
T-MOBILE STANDARD SAFETY COMPLIANCE NOTES:

AS OUTLINED BELOW, THE CONTRACTOR SHALL INSPECT THE T-MOBILE EQUIPMENT AREA AND ACCESS PATHS TO THE EQUIPMENT FOR OSHA VIOLATIONS. VIOLATIONS SHALL BE CORRECTED. DISCREPANCIES OR QUESTIONS REGARDING THE OSHA SCOPE OF WORK SHALL BE DIRECTED TO THE T-MOBILE CALL.

1. RF RADIATION SIGNS SHALL BE INSTALLED AT ROOFTOP DOORS AND EACH SECTOR.
2. HOLES IN PLATFORM WALKING SURFACES SHALL BE COVERED AND SECURED WITH CARBIDE BOLTS.
3. SECURE ALL NEW COAX AND CABLES WITH SNAP BLOCKS; 3" INCREMENTS FOR HORIZONTAL RUNS AND 4" INCREMENTS FOR VERTICAL RUNS.
4. INSTALL A NON-SLIP PATH LEADING TO THE T-MOBILE LEASE AREA.
5. HANDRAILS SHALL BE INSTALLED WITHIN 18" OF WORKING/WALKING SURFACES WHEN THE PARAPET OR THE EXPOSED WALKING EDGES RAILING IS LESS THAN 42" ABOVE WALKING EDGE.
6. TRIP HAZARDS NEAR WORKING/WALKING SURFACES SHALL BE MARKED WITH HIGH VISIBILITY AND PAINT OR TAPE.
7. INSTALL A CROSSOVER STAIR WHEN OBSTRUCTIONS PREVENT A DIRECT WALKING PATH TO THE T-MOBILE LEASE AREA.
8. PLATFORM LADDERS SHALL HAVE A CHAIN AT THE TOP WHICH CAN BE SECURED TO PREVENT ACCIDENTAL FALLS.
9. OVERHEAD OBSTRUCTIONS NEAR WORKING AND WALKING SURFACES THAT REQUIRE A PERSON TO DUCK NEED HIGH VISIBILITY PAINT OR TAPE.
10. LIGHTS NEAR THE ROOFTOP DOOR AND OR LEASE AREA SHALL BE VERIFIED AND MADE FUNCTIONAL FOR AFTER-HOURS WORK.
11. THERE SHOULD BE NO SCREWS THAT CAUSE A PENETRATIONS INTO ANY CABINETS THAT ARE NOT FACTORY PROVIDED.
12. THE CONTRACTOR SHALL PAINT ANTENNAS TO MATCH THE BUILDING OR ROOFTOP SITES.
13. VERIFY THAT THE BACK OF THE BATTERY CABINETS SHALL HAVE AT LEAST 24" CLEARANCE AND A LABEL THAT SAYS "TWO-PERSON LIFT".



2 EXISTING SITE EQUIPMENT PHOTO SCALE:



1 SITE PLAN SCALE: 3/32\"/>

T-Mobile

5901 BENJAMIN CENTER DR. #110 A-B,
TAMPA, FL 33634

smartlink

1397 Anacostia Exchange Parkway
Suite 200
Anacostia, MD 21401
410-263-8400

IRISH TOWER

1000 S. Orange Ave. Suite 1000
Orlando, FL 32801
407-241-1000

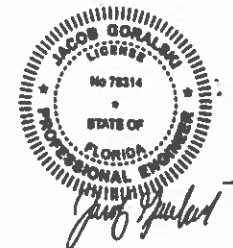
T-MOBILE SITE NUMBER:
A2C0020A

318 PEACHTREE STREET
COCOA, FL 32922

EXISTING 165'-0"
WATERTANK

ISSUED FOR:

REV	DATE	BY	DESCRIPTION	APP/CHK
0	06/01/2021	JMS	FINAL CDS	JMS



06/01/2021

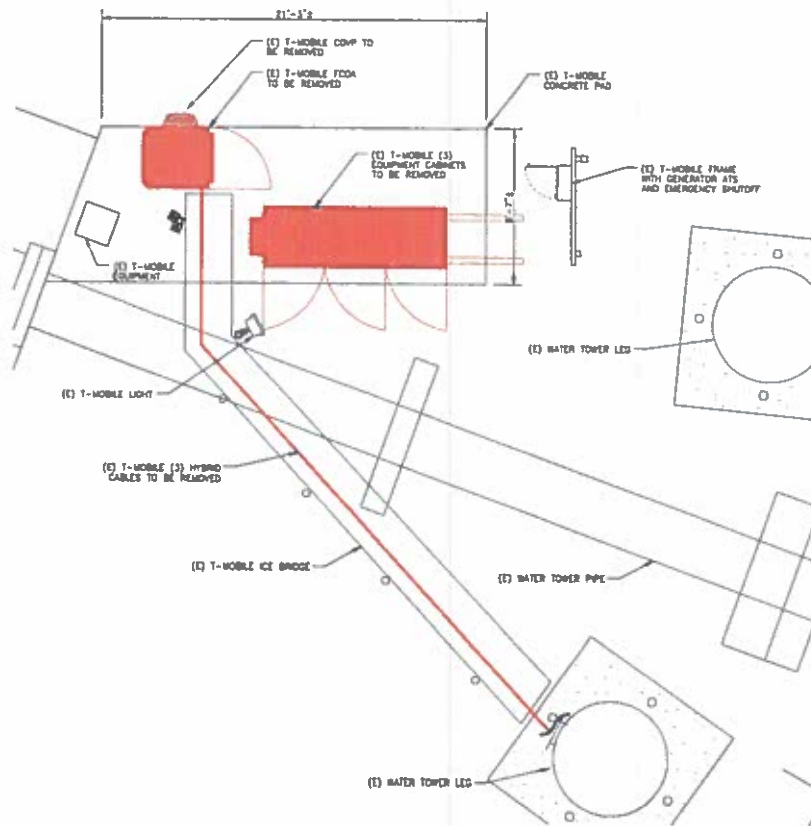
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SHEET NUMBER: REVISION:

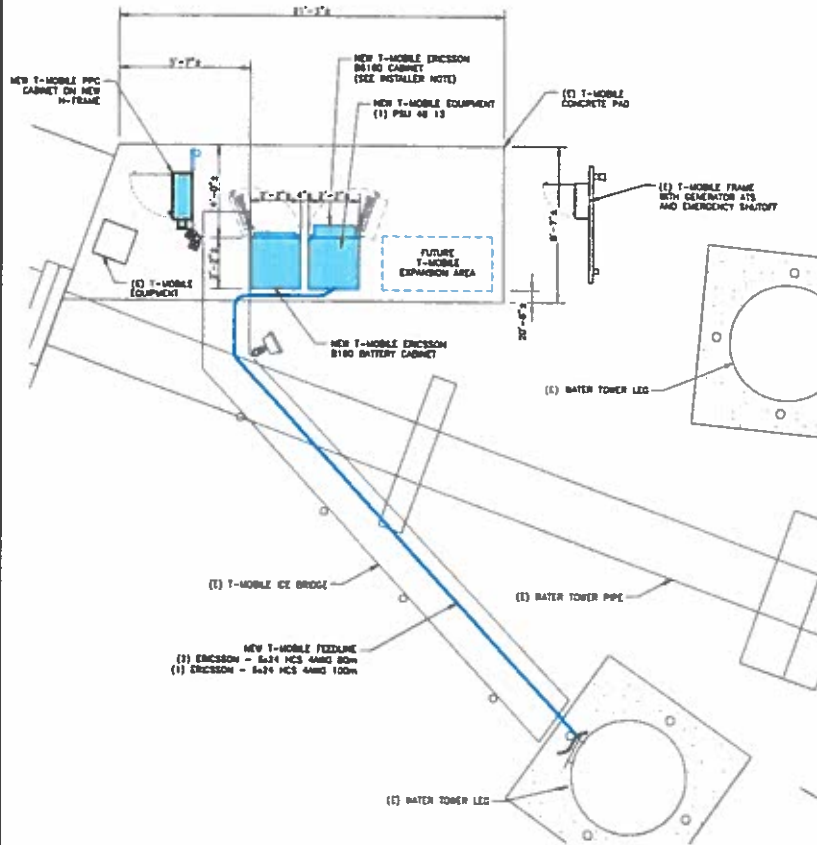
C-1.1 0

EQUIPMENT LEGEND

EXISTING
TO BE RELOCATED/REMOVED
NEW



1 EXISTING EQUIPMENT PLAN
SCALE: 3/4"=1'-0" (FULL SIZE)
3/16"=1'-0" (11x17)



2 FINAL EQUIPMENT PLAN
SCALE: 3/4"=1'-0" (FULL SIZE)
3/16"=1'-0" (11x17)



INSTALLER NOTE:

DC TO REFERENCE ERICSSON 8180 AND 8190 SPEC SHEETS (NOT ATTACHED)

CONDUITS MUST BE RUN AROUND THE EDGE OF THE PAD OR BE BURIED OR RUN UNDER PLATFORM AND SECURED PROPERLY. USE GUT CONDUIT WITH CAUTION TAPE FROM THE EDGE TO IN BETWEEN THE CABINETS FROM BEHIND.

DC TO INSURE NO OBSTRUCTIONS BEHIND 8180/8190 FOR PROPER SAFE REMOVAL OF REAR DOOR. UNSTRUT UP TO INCLUDING ICE BRIDGE TO BE REMOVED TO INSURE DOOR CLEARANCE.

DC TO INSURE NO OBSTRUCTIONS OR TRIP HAZARDS ON EQUIPMENT PLATFORM/PAD.

DC TO INSTALL LED SECURITY LIGHTS W/ 4 HOUR TIMER FACING EQUIPMENT.

T-Mobile...
5901 BENJAMIN CENTER DR. #110 A-B,
TAMPA, FL 33614

smartlink
1997 Annapolis Exchange Parkway
Suite 202
Annapolis, MD 21401
410-263-5400

IRISH TOWER
4880 Peachtree Street, Suite 1000, Peachtree City, GA 30269
(770) 784-2000

T-MOBILE SITE NUMBER:
A2C0020A
318 PEACHTREE STREET
COCOA, FL 32922
EXISTING 165'-0" WATERTANK

ISSUED FOR:

REV	DATE	BY	CHKD BY	APP'D BY
1	06/01/2021	JMS	JMS	JMS

JACOB CORALAN
LICENSED PROFESSIONAL ENGINEER
No 78314
STATE OF FLORIDA
Professional Engineer
06/01/2021

IT IS A VIOLATION OF LAW FOR ANY PERSON TO USE THIS PLAN AFTER THE EXPIRATION DATE OF THE PROFESSIONAL SEAL, TO ALTER THIS DOCUMENT.

SHEET NUMBER: C-1.2
REVISION: 0

MOUNT ANALYSIS CONDITIONAL APPROVAL NOTES

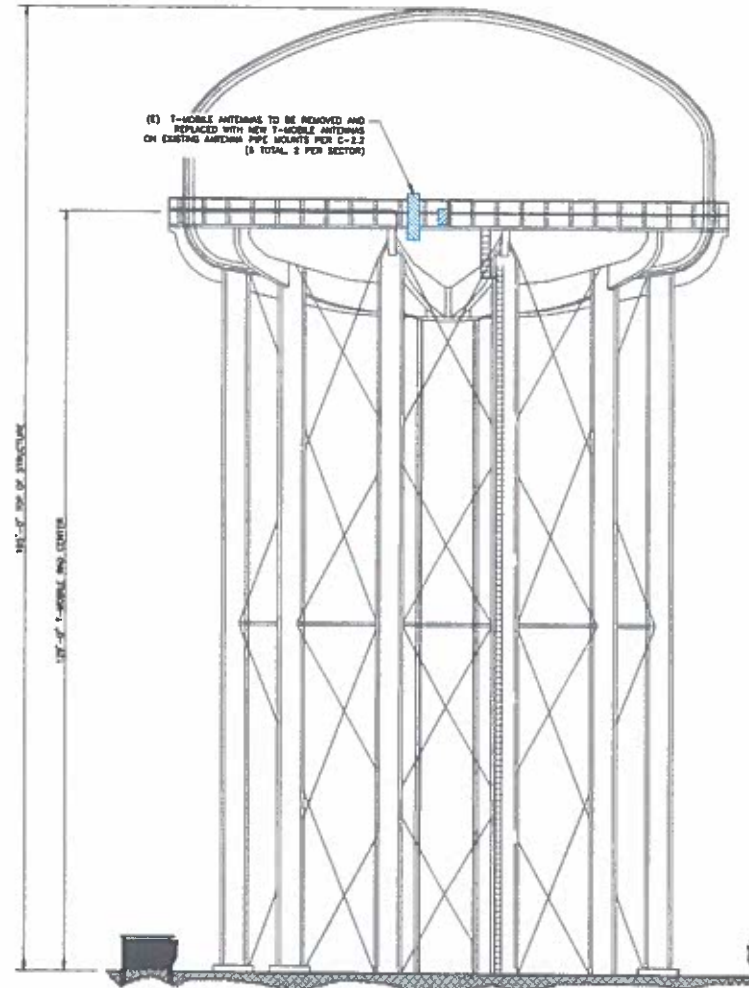
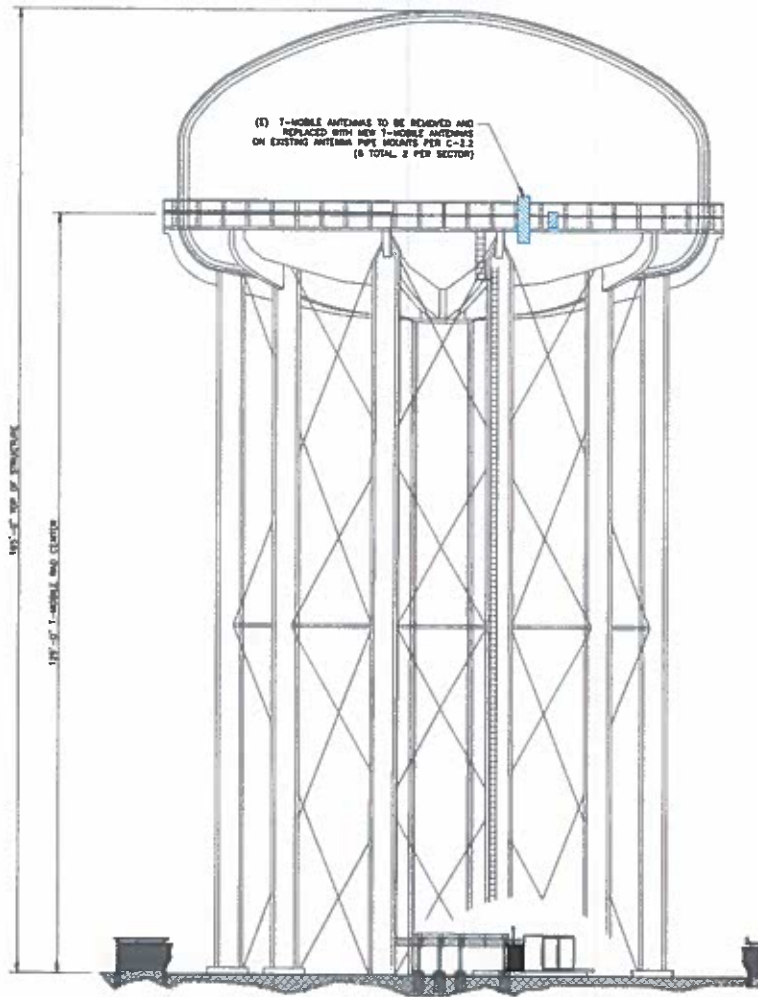
1. MOUNT PIPE IS RECOMMENDED TO REPLACE BY 2" SCHEDULE 40 PIPE (2.877" OD, 0.307" WALL THICKNESS) IF IS CONDITION TO PASS THE ANALYSIS.
2. ANTENNA SHALL BE INSTALLED WITH HANG CENTER CLOSE TO CENTER LINE OF MOUNTING, IF +/- FROM CENTER ELEVATION.
3. NO CONNECTION INFORMATION IS AVAILABLE, STANDARD THREAD ROD AT HANGING TO PIPE CONNECTION IS 1/2" DIA. 60000 PSI, STEEL TYPE A36 BRACE 2 WITH 57 KSI YIELD AND 74 KSI TENSILE IS REQUIRED. CONTRACTOR TO CHECK THE RODS AND REPLACE TO MEET THE REQUIREMENT IF NEEDED.

EQUIPMENT LEGEND

- EXISTING
- TO BE RELOCATED/REMOVED
- NEW

MOUNT ANALYSIS CONDITIONAL APPROVAL NOTES

1. MOUNT PIPE IS RECOMMENDED TO REPLACE BY 2" SCHEDULE 40 PIPE (2.877" OD, 0.307" WALL THICKNESS) IF IS CONDITION TO PASS THE ANALYSIS.
2. ANTENNA SHALL BE INSTALLED WITH HANG CENTER CLOSE TO CENTER LINE OF MOUNTING, IF +/- FROM CENTER ELEVATION.
3. NO CONNECTION INFORMATION IS AVAILABLE, STANDARD THREAD ROD AT HANGING TO PIPE CONNECTION IS 1/2" DIA. 60000 PSI, STEEL TYPE A36 BRACE 2 WITH 57 KSI YIELD AND 74 KSI TENSILE IS REQUIRED. CONTRACTOR TO CHECK THE RODS AND REPLACE TO MEET THE REQUIREMENT IF NEEDED.



MOUNT ANALYSIS NOTES

1. THE DESIGN DEPICTED IN THESE DRAWINGS IS VALID WHEN ACCOMPANIED BY A CORRESPONDING PASSING MOUNT ANALYSIS.
2. CONSTRUCTION MANAGER / GENERAL CONTRACTOR SHALL REVIEW THE MOUNT ANALYSIS FOR ANY CONDITIONS PRIOR TO INSTALLATION.
3. ANY REQUIRED MOUNT MODIFICATION DESIGN OR MOUNT REPLACEMENT SHALL BE APPROVED BY EIR.

1 FINAL SOUTH ELEVATION
SCALE: NOT TO SCALE

2 FINAL WEST ELEVATION
SCALE: NOT TO SCALE

T-Mobile

5901 BENJAMIN CENTER DR. #110 A-B,
TAMPA, FL 33634

smartlink

1507 Annandale Exchange Parkway
Suite 300
Annandale, MD 21011
410-363-6400



IRISH TOWER

6000 Benjamin Drive, Suite 100, Tampa, FL 33634
813-760-0001

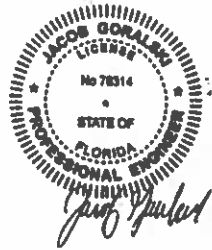
T-MOBILE SITE NUMBER:
A2C0020A

318 PEACHTREE STREET
COCOA, FL 32922

EXISTING 165'-0"
WATERTANK

ISSUED FOR:

REV	DATE	DESIGN	DESCRIPTION	APPROVED
1	04/01/2021	JMB	FINAL CEN	BAG



06/01/2021

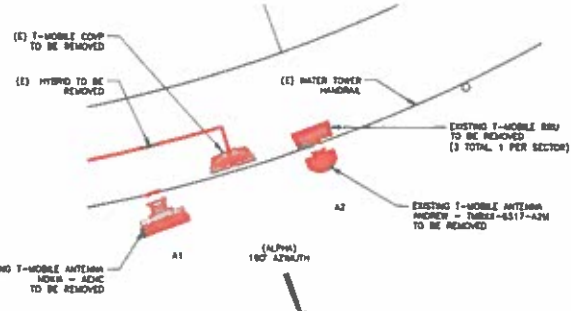
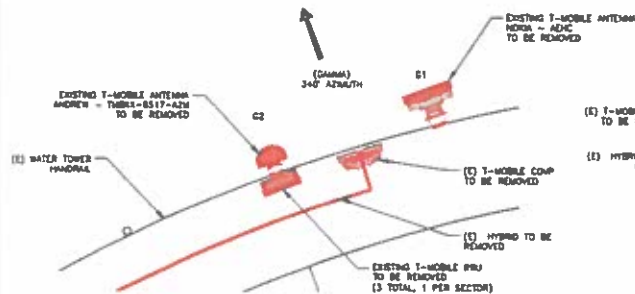
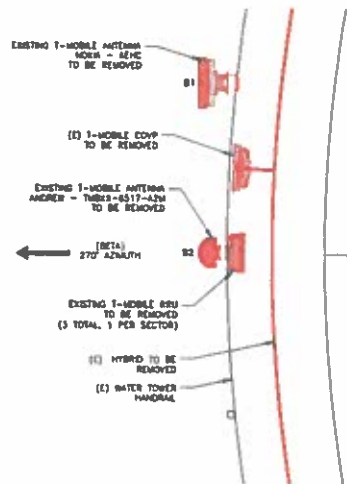
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C-2.1

REVISION:

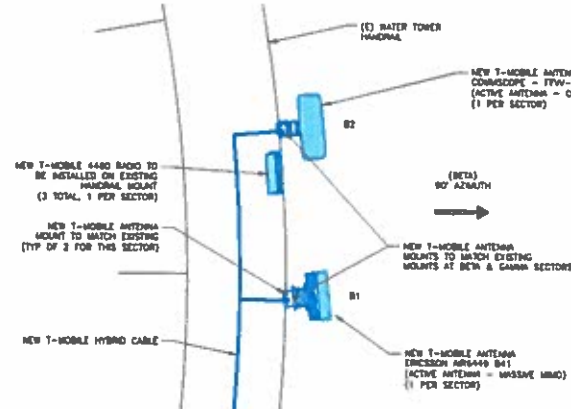
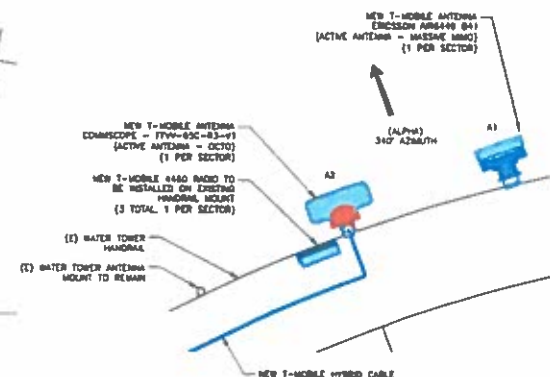
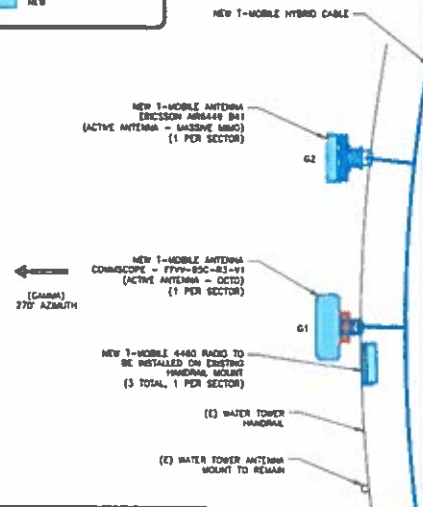
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1 EXISTING ANTENNA PLAN
SCALE: NOT TO SCALE



EQUIPMENT LEGEND:
EXISTING
TO BE RELOCATED/REMOVED
NEW



MOUNT ANALYSIS CONDITIONAL APPROVAL NOTES:
1. MOUNT PIPE IS RECOMMENDED TO REPLACE BY 2" SCHEDULE 40 PIPE (3.875" O.D. 0.307" WALL THICKNESS). IT IS CONDITION TO PASS THE ANALYSIS.
2. ANTENNA SHALL BE INSTALLED WITH RAIL CENTER LINE TO CENTER LINE OF HANDRAIL, 12" +/- FROM EXISTING ELEVATION.
3. NO CONNECTION INFORMATION IS AVAILABLE. MINIMUM THREAD ROD AT HANDRAIL TO PIPE CONNECTION IS 1/2" DIAMETER ROD, STEEL TYPE A575 GRADE 58K 5/8" DIA. WELD AND 74" DIA. ULTIMATE IS REQUIRED. CONTRACTOR TO CHECK THE ROD AND REPLACE TO MEET THE REQUIREMENT IF NEEDED.

2 FINAL ANTENNA PLAN
SCALE: NOT TO SCALE



MOUNT ANALYSIS NOTES:
1. THE DESIGN DEPICTED IN THESE DRAWINGS IS VALID WHEN ACCOMPANIED BY A CORRESPONDING PASSING MOUNT ANALYSIS.
2. CONSTRUCTION MANAGER / GENERAL CONTRACTOR SHALL REVIEW THE MOUNT ANALYSIS FOR ANY CONDITIONS PRIOR TO INSTALLATION.
3. ANY REQUIRED MOUNT MODIFICATION DESIGN OR MOUNT REPLACEMENT SHALL BE APPROVED BY COR.

T-Mobile
5901 BENJAMIN CENTER DR. #110 A-B,
TAMPA, FL 33634

smartlink
1997 Annapolis Exchange Parkway
Suite 200
Annapolis, MD 21401
410-243-5400

IRISH TOWER
600 Madison Street, Suite 1000
Baltimore, MD 21201

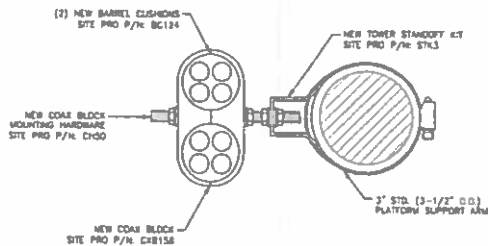
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A2C0020A
318 PEACHTREE STREET
COCOA, FL 32922
EXISTING 165'-0"
WATERTANK

ISSUED FOR:				
REV	DATE	DRWN	CHKD BY/DATE	APP'D BY
0	06/01/2021	JMS	JMS/06/01/2021	JMS

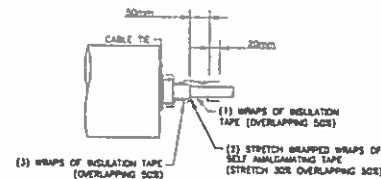
JACOB GONZALES
LICENSE
No 78314
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
06/01/2021

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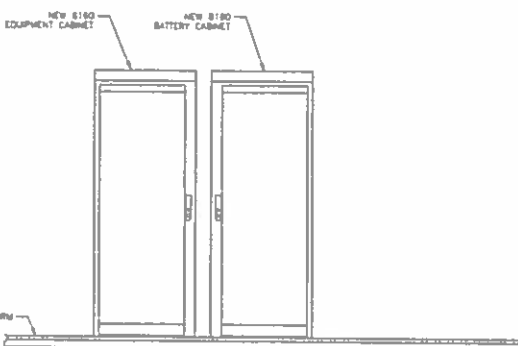
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REVISION: 0



1 RF JUMPER DETAIL
SCALE: NOT TO SCALE



2 RF JUMPER CONNECTION
SCALE: NOT TO SCALE



3 GROUND EQUIPMENT ELEVATION
SCALE: NOT TO SCALE

Coax Color Coding

- Antennas in 2-Bay Systems: Each antenna will get its own 5-10 ports.
- Cable color codes will be used for 2-bay systems for color and 2-bay number of antenna and the color code.

SECTOR A	
SECTOR B	
SECTOR C	
SECTOR D	YELLOW
SECTOR E	WHITE
SECTOR F	
LINX	
FIBER ID	
UNRUBED COAX	
MICROWAVE	
DIVE T-12 + QPS DOWNLINK CABLE	RED LABEL MAKER

COLOR CODING NOTES

COAX	CON
COAX	UNITS 100B
COAX	UNITS 100B
COAX	LTE
COAX	FIBER CABLE



METALLIC TAG NOTES

- TWO METALLIC TAGS SHALL BE ATTACHED AT EACH END OF EVERY CABLE LONGER THAN 10 FEET.
- CABLES LESS THAN 10 FEET WILL HAVE TWO METALLIC TAGS ATTACHED AT THE CENTER OF THE CABLE.
- TAGS WILL BE FASTENED WITH STAINLESS STEEL ZIP TIES APPROPRIATE FOR CABLE DIAMETER.
- STANDARDIZED METALLIC TAG KIT WILL BE ASSEMBLED WITH TAGS ALREADY SIGNAL-IZED TO ACCOMMODATE ALL CONFIGURATIONS.



EXAMPLE: COAX WITH FOUR BANDS OF RED TAPE WILL REPRESENT ALPHA SECTOR AND THE 4TH PORT OF ANTENNA

ANTENNA AND COAXIAL CABLE SCHEDULE

- ALL ANTENNAS SHALL BE PURCHASED WITH DOWNWELL BRACKETS. CONTRACTOR SHALL COORDINATE REQUIRED MECHANICAL DOWNWELL FOR EACH ANTENNA WITH RF DIVISION. ANTENNA DOWNWELL SHALL BE SET AND VERIFIED BY A SMART LEVEL.
- CONTRACTOR SHALL INSTALL COLOR CODE RINGS ON EACH OF THE HYBRID CABLES AND JUMPER CABLES WITH UV RESISTANT TAPE. ALL CABLE SHALL BE MARKED AT TOP AND BOTTOM WITH 2\"/>

4 COAX COLOR CODING
SCALE: NOT TO SCALE

INSTALLER NOTE:
JAMPER TO BE TORQUED TO 221 27 IN/LBS

T-Mobile
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TAMPA, FL 33634

smartlink

1387 Avenida Exchange Parkway
Suite 300
Aventura, FL 33157
305-945-5465

IRISH TOWER
4800 South Dixie Ave. Suite 100, Ft. Lauderdale, FL 33309
954-770-0000

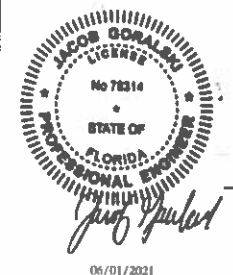
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A2C0020A

318 PEACHTREE STREET
COCOA, FL 32922

EXISTING 165'-0"
WATERTANK

ISSUED FOR:

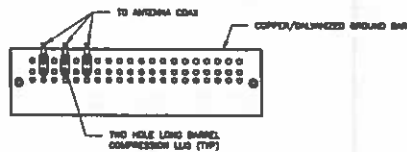
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1	06/01/2021	ISSUED FOR			



06/01/2021

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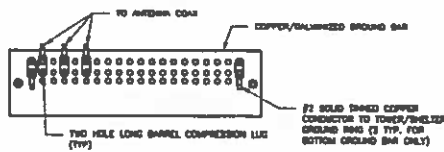
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NOTES:

1. DOWELING UP "OR SHORING" OF CONNECTIONS IS NOT PERMITTED.
2. EXTERIOR AIRTERMINAL JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
3. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER MOUNT DIRECTLY TO TOWER STEEL.

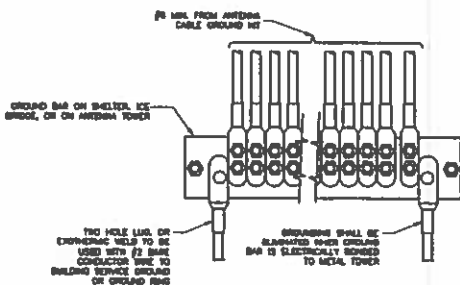
① ANTENNA GROUND BAR DETAIL
SCALE: NOT TO SCALE



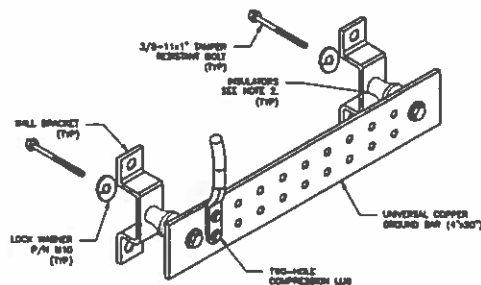
NOTES:

1. EXTERIOR AIRTERMINAL JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
2. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER MOUNT DIRECTLY TO TOWER STEEL (TOWER ONLY).
3. GROUND BAR SHALL BE ISOLATED FROM BUILDING OR SHELTER.

② TOWER/SHELTER GROUND BAR DETAIL
SCALE: NOT TO SCALE



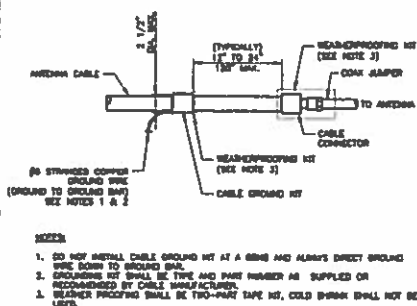
④ GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE



NOTES:

1. DOWN LEAD (PHONE BELL) CONDUCTORS ARE NOT TO BE INSTALLED ON DOWN CABLE USA INC. TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY DAS-STD-10091. NO INSULATION OR BUNDLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION. CABLE-BINDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.
2. ONLY INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL USE INSULATORS WHEN ATTACHING TO BUILDING OR SHELTER.

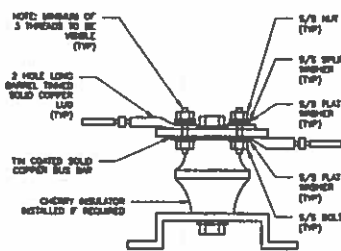
⑤ GROUND BAR DETAIL
SCALE: NOT TO SCALE



NOTES:

1. DO NOT METALL CABLE GROUND KIT AT A BOND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. GROUNDING KIT SHALL BE TYPED AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
3. INSULATOR PROTECTING SHALL BE TWO-PART TAPE KIT, COLD BURNER SHALL NOT BE USED.

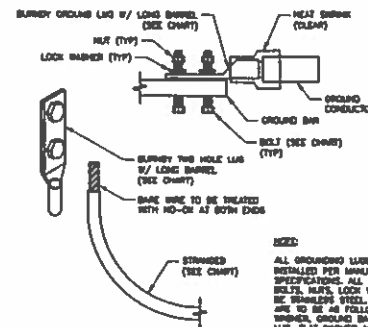
⑥ CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



⑦ LUG DETAIL
SCALE: NOT TO SCALE

⑧ NOT USED
SCALE: NOT TO SCALE

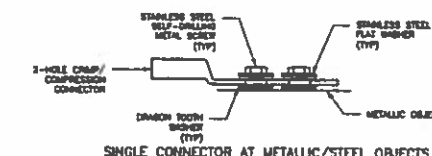
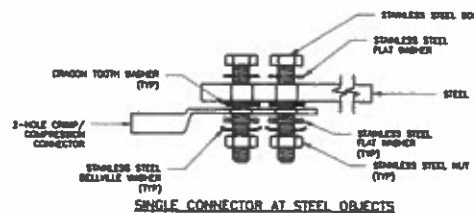
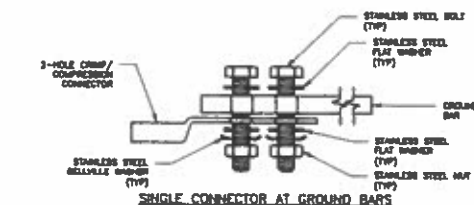
WIRE SIZE	BURNDY LUG	BOLT SIZE
#4 UNBURY PREPARED	1/2"-2/3"	3/8" - 10 NC SS 2 BOLT
F2 SOLID THINNED	1/2"-2/3"	3/8" - 10 NC SS 2 BOLT
F2 STRIPPED	1/2"-2/3"	3/8" - 10 NC SS 2 BOLT
F2/3 STRIPPED	1/2"-2/3"	3/8" - 10 NC SS 2 BOLT
F4/5 STRIPPED	1/2"-2/3"	3/8" - 10 NC SS 2 BOLT



NOTES:

1. ALL GROUNDING LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE 40 FORBIDDEN. BOLT, PLAT WASHER, GROUND BAR, GROUND LUG, PLAT WASHER AND NUT.

③ MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE



⑨ HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE

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TAMPA, FL 33634

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1387 Annapolis Eastway 1 way
Suite 203
Annapolis, MD 21401
(410) 293-0400

IRISH TOWER
800-444-4444
400-444-4444

T-MOBILE SITE NUMBER:
A2C0028A

318 PEACHTREE STREET
COCOA, FL 32922

EXISTING 165' 0"
WATERTANK

REV	DATE	DESN	DESCRIPTION	CHK
#	MM/DD/YY	JMR	FINAL CEN	JMR

JACOB GORALEK
LICENSED PROFESSIONAL ENGINEER
No 78314
STATE OF FLORIDA
04/01/2021

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