CITY OF BILOXI AGENDA ITEM FACT SHEET						
	Item No.: 5 G Council Meeting Date: April 4, 2023					
ITEM TITLE:	RESOLUTION					
INTRODUCED BY:	Mayor Andrew "FoFo" Gilich					
CONTACT PERSON:	E. Michael Leonard, CAO 9000					
	Peter Abide, City Attorney					
SUMMARY EXPLANATION: Resolution authorizing consent replacement of equipment by T-Mobile South, LLC on the Margaret Sherry Tower Site (2145 Popps Ferry Road), pursuant to the Water Tower Option and Lease Agreement, dated November 16, 1999, as amended						
Resolution	Ordinance Public Hearing Routine Agenda					
Exhibits for Review Contract ✓ Minutes Plans/Maps Deed Lease Other (Specify): Exhibit A: Consent letter and construction drawings						
Submittal Authorization: Council President Mayor						
STAFF RECOMMENDATION: Staff recommends approval						
COUNCIL ACTION: Motio	n By: Second By:					
Vote: <u>Councilmember</u> Lawrence Gines Newman Deming	YesNoOtherCouncilmemberYesNoOtherTisdaleGlavanBarrett					
ACTION TAKEN:						
040423dcon						

Resolution No.

RESOLUTION AUTHORIZING CONSENT REPLACEMENT OF EQUIPMENT BY T-MOBILE SOUTH, LLC ON THE MARGARET SHERRY TOWER SITE (2145 POPPS FERRY ROAD), PURSUANT TO THE WATER TOWER OPTION AND LEASE AGREEMENT, DATED NOVEMBER 16, 1999, AS AMENDED

WHEREAS, by Resolution No. 668-99, the governing authorities of the City of Biloxi (the "City") approved entry into that certain Water Tower Option and Lease Agreement (the "Agreement"), dated November 16, 1999, with Digiph PCS, Inc. for the lease of space located on top of the City's water tower at 2145 Popps Ferry Road for the purposes of installing and maintaining wireless telecommunication equipment in exchange for compensation in the amount of \$18,000.00 per year, with a twelve percent (12%) increase every five (5) years;

WHEREAS, by Resolution No. 799-00, the City's governing authorities approved entry into a Consent and Estoppel Agreement, recognizing the transfer of the Agreement to Eliska Wireless Ventures I, Inc. as a result of Digiph PCS, Inc.'s assignment of interest;

WHEREAS, by Resolution No. 256-09, the City's governing authorities approved an Amendment to the Agreement, dated July 8, 2010, with Powertel/Memphis, Inc. d/b/a T-Mobile ("PowerTel"), as successor in interest to Digiph PCS, Inc. and Eliska Wireless Ventures I, Inc., and providing for the installation of additional equipment in exchange for additional compensation of \$6,480.00 per year, subject to all terms and conditions of the Agreement, including the twelve percent (12%) increase every five (5) years;

WHEREAS, by Resolution No. 265-14, the City's governing authorities

consented to PowerTel's installation of additional equipment, with no increase to the annual rent;

WHEREAS, by Resolution No. 560-19, the City's governing authorities consented to PowerTel's installation of additional equipment, with no increase to the annual rent;

WHEREAS, by Resolution No. 819-19, the City consented to the assignment of all of PowerTel's rights and obligations under the Lease to T-Mobile South, LLC ("T-Mobile");

WHEREAS, by Resolution No. 499-20, the City consented to the removal of certain equipment by T-Mobile and the installation of new equipment as part of a technology upgrade;

WHEREAS, by Resolution No. 227-22, the City and T-Mobile entered into the Second Amendment to Water Tower Option and Lease Agreement, extending the Agreement for an additional five (5) years, with five (5) renewal terms of five (5) years each, for a total possible term of thirty (30) years, with a two and one-half percent (2.5%) increase in rent each year, beginning in December of 2026;

WHEREAS, pursuant to the Agreement, T-Mobile has the right, subject to the approval of the City, to make reasonable alterations to its equipment on the leased premises and has requested the City's consent to the installation of new equipment at this time;

WHEREAS, T-Mobile has requested certain the City's consent to the replacement of a generator, as further explained in the Consent Letter, attached

hereto as Exhibit "A";

WHEREAS, the new equipment proposed by T-Mobile will not occupy additional space on the water tower and will not significantly increase the total weight of T-Mobile's equipment located on the water tower;

WHEREAS, the City's consent to T-Mobile's plan, as described in Exhibit "A" attached hereto, will not relieve any other City water tower lessee of its separate obligations under a separate tower agreement with the City and the City's consent shall not waive any rights or remedies the City currently has against any such lessee, and will not relieve any other such lessee of any outstanding obligations under separate agreements; and

WHEREAS, it is the recommendation of Peter C. Abide, City Attorney, that the City consent to T-Mobile's plan regarding the placement and removal of equipment on the City's water tower located at 2145 Popps Ferry Road, as described in Exhibit "A" attached hereto.

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOUR AND THE CITY COUNCIL OF THE CITY OF BILOXI, MISSISSIPPI, AS FOLLOWS:

SECTION ONE: The findings, conclusions, and statements of fact contained in the foregoing preamble are hereby adopted, ratified and incorporated herein.

SECTION TWO: The Mayor is hereby authorized to execute, on behalf of the City of Biloxi, the letter, attached hereto as Exhibit "A," indicating the City's consent to T-Mobile South, LLC's installation of new equipment on the City's water tower located at 2145 Popps Ferry Road. SECTION THREE: This resolution shall take effect and be in force from and after adoption.

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March 27, 2023



City of Biloxi 140 Lemeuse Street Biloxi, Mississippi 39533

Re: <u>Water Tower Option and Lease Agreement dated November 16, 1999, as the</u> <u>same may have been amended (the "Agreement"), between City of Biloxi</u> <u>("Landlord") and DIGIPH PCS, Inc. ("T-Mobile")</u> <u>Site No.: 9MT0043A</u> <u>Site Address: 2499 Popps Ferry Road, Biloxi, MS 39532</u>

To whom it may concern:

T-Mobile is in the process of updating certain equipment that supports its wireless telecommunications network. As part of this effort and as permitted under the Agreement, T-Mobile will need to perform work at the above-referenced Site.

In order to update the equipment, T-Mobile is requesting Landlord to review the attached construction drawings ("CDs") and then provide your consent for that work ("Consent") by signing the acknowledgement below.

All work will be done in accordance with the terms of the Agreement. A T-Mobile representative will contact you in the coming weeks to coordinate access to the Property in order to complete the work. It is important that the work starts promptly and without costly delays.

If there is an on-site representative of Landlord with whom we should coordinate the upcoming work, please provide us his or her contact information where indicated below. If we do not hear back from you within two weeks, we will assume no coordination is required.

Kindly return this letter with the requested information filled out below, via email to belina.derzapf1@t-mobile.com. The signatory represents and certifies that he or she has full right, power and authority to execute for Landlord.

GENERAL NOTES			OVALS	
1. ALL MATERIALS EURNISHED AND INSTALLED SHALL BE IN STRICT		DE	PARTMENT NAME/SIGNATURE DATE	
ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES, SUBCONTRACTORS SHALL ISSUE ALL APPROPRIATE NOTICES		DEVELOP	IENT WANAGER	
ANO COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE		PROPERTY	/TOWER OWNER	
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3. UNLESS NOTED OTHERWISE. THE WORK SHALL INCLUDE FURNISHING	GENERATOR ADD		EER	
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4. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN	T-MOBILE SITE ID	SHEET	NDEX	
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INSTALLATION SPACE FOR APPROVAL BY THE CONTRACTOR.		C-2 (QUIPMENT PLAN	- · ·
6. THE SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED		C-3 (SENERATOR DETAILS	
FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.	T-MOBILE SITE NAME	C-3.1	SENERATOR DETAILS	
7. THE SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.		C-3.2	SENERATOR DETAILS	
8. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK, ALL DIMENSIONS OF EXISTING		C-4	NTC DETAILS	
CONSTRUCTION SHOWN ON THE DRAWING MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES		C-5	NCHORING DETAILS	
PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.	SITE ADDRESS	C-6	CONCRETE EXTENSION DETAIL	
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LOCATION MAP	SITE SUMMARY SITE TYPE: GENERATOR ADD GENERATOR TYPE: GENERAC RD048 FUEL TYPE: DIESEL SITE ADDRESS: 2145 CT POPPS FERRY ROAD BILOXI, MS 39532 SITE LATITUDE: 30.4385' (N 30' 26' 11.4') SITE LATITUDE: -68.9656' (W 85' 57' 56.2') JURISOICTION: NOT PROVIDED POWER COMPANY: COAST ELECTRIC TOWER OWNER/MANAGER: CITY OF BILOXI CONTACT: NOT PROVIDED CONTACT: NOT PROVIDED WIRELESS CARRIER: T-MOBILE TOWER OWNER/MANAGER: CITY OF BILOXI CONTACT: NOT PROVIDED CONTACT: NOT PROVIDED WIRELESS CARRIER: T-MOBILE TOWER OWNER/MANAGER: CITY OF BILOXI CONTACT: NOT PROVIDED MOBILE, AL 38600 CONTACT: NOT PROVIDED PHONE: NOT PROVIDED PHONE: NOT PROVIDED PHONE: NOT PROVIDED PHONE: NOT PROVIDED SUM ENGINEERING SUM ENGINEERING SUBSON CANN SOMMERVILLE, PE PHONE: (469) 409-1138 PHONE: (469) 409-1138	E-2 (E-3) E-4 (E-5) E-6 (BUILD ALL COA BU LOCA BU LOCA BU LOCA BU LOCA BU LOCA IN IN IN IN IN IN IN IN IN IN	INCOUNTING NOTES	CAF: IS E -0280 CFR: SOMMER ENGINEER Into Intro Intr
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GENERAC 100-400 Amps, Single Phase Automatic Smart Transfer Switches Functions All timing and sensing functions originate in the generator controller Utility voltage drop-out...... Timer to generator start Eugline wanti up delay Standby voltage sensor Utlisty voltage pickup..... Re-transfer time delay 10 second factory set, adjustable between 2-1500 seconds by a qualilled dealer 5 seconds ... 65% for 5 seconds >80% . 15 seconds Engine cool-down timer 60 seconds Exerciser The transfer switch can be operated manually without power applied. *When used in conjunction with units utilizing Evolution** controls **Adjustable via the controller Specifications

Model	RXSC100A3	RXSC200A3
Amps	100	200
Voitage	120/240. 1ø	120/240. 1ø
Load Transition Type (Automatic)	Open Transition	Open Transition
Endosure Type	NEMA/UL 3R	NEMA/UL 3R
UL Rating	UL/CUL	UI/CUL
Withstand Rating (Amps)	10,000	10.000
Lug Range	1/0 - #14	250 MCM - #6

Description

Generac Automatic Transfer Switches are designed for use with single phase generators that utilize an Evolution[®] or Nexus[®] Controller. The 100, 200, and 400 amp open transition switches are available in single phase in both service equipment rated and non-service equipment rated configurations. The 150 and 300 amp open transition switches are only available in aservicerated equipment configurations.

Standard Features

Service rated (RXSW) Generac Automatic Transfer Switches are housed in an aluminum NEMA/UL Type 3R enclosure*, with electrostatically applied and baked powder paint. The Heavy Duty Generac Contactor is a UL recognized device, designed for years of service. The controller at the generator handles all the timing, sensing, exercising functions, and transfer commands. All switches are covered by a 5 year limited warranty.

* Non-service rated (RXSC) switches are housed in a steel enclosure.

*CUL only applies to non-service rated swi

DPM Technology

Through the use of digital power technology (DPM), these switches have the capability to manage up to 4 individual HVAC (24 VAC controlled) loads with no additional hardware. When used intandem with Smart Management Modules. up to 8 more loads can be managed as well, providing the most installation efficient power management options available.





GENERAC



GeneracPowerSystems, Inc. • 545 W29290 HWY.59. Waukesha. WI53189 • generac.com c2017 Camera: PowerSystem. Inc. Allright-manned. Allspecifications as subject to dange-without notata. Builetin (08000):8459-A 04/24/1



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ATS SPEC SHEETS







A - GENERAL

- A1. ALL ELECTRICAL WORK SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE (EDITION ADOPTED BY LOCAL JURISDICTION) AND APPLICABLE LOCAL CODES.
- A2. GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRIC CODE.
- A3. ALL ELECTRICAL EQUIPMENT AND ACCESSORIES SHALL BE U.L. APPROVED OR LISTED.
- A4. ALL POWER WIRING SHALL BE STRANDED COPPER, TYPE THHN/THHW, AND 90 DEGREES C RATED.
- A5. GROUNDING ELECTRODE CONDUCTORS SHALL BE BARE, TIN COATED COPPER AND EQUIPMENT GROUND CONDUCTORS SHALL BE GREEN INSULATED, UNLESS OTHERWISE NOTED.
- AB. ALL POWER WIRING SHALL BE INSTALLED IN GALVANIZED RIGID STEEL CONDUIT, PVC, OR FLEXIBLE LIQUIDTIGHT CONDUIT, AS INDICATED.
- A7. CONTRACTOR SHALL OBTAIN ALL PERMITS, PAY PERMIT FEES, AND SCHEDULE INSPECTIONS.
- CONTRACTOR SHALL APPLY FOR ELECTRICAL SERVICE AS SOON AS POSSIBLE AND COORDINATE REQUIREMENTS, SERVICE ROUTING, AND METER SOCKET TYPE WITH LOCAL POWER COMPANY. AB.
- CONTRACTOR SHALL APPLY FOR TELEPHONE SERVICE AS SOON AS POSSIBLE AND COORDINATE REQUIREMENTS AND SERVICE ROUTING WITH TELEPHONE COMPANY. A9.
- A10. PROVIDE ALL LABOR AND MATERIAL DESCRIBED ON THIS DRAWING, AND ALL ITEMS INCIDENTAL TO COMPLETING AND PRESENTING THIS PROJECT AS FULLY OPERATIONAL.
- A11. WHERE LONG POWER CABLE RUNS PREVAIL, CONTRACTOR SHALL CALCULATE THE VOLTAGE DROP AND SIZE WIRES AND CONDUIT ACCORDINGLY.
- A12. WHERE TRANSFORMER IS REQUIRED FOR ELECTRICAL SERVICE, TRANSFORMER SECONDARY SHALL BE GROUNDED PER N.E.C., ARTICLE 250-26.
- A13. REFER TO SITE SPECIFIC DWGS FOR ELEVATIONS.
- A14. ALL ELECTRICAL DEVICES EXPOSED TO WEATHER SHALL BE OF RAINPROOF CONSTRUCTION AND SHALL REQUIRE WATER TIGHT CONDUIT HUBS. NEWA 3R TYPICAL
- A15. CONTRACTOR SHALL COIL CABLES AT HANDHOLE WITH LENGTHS AS REQUIRED BY ELECTRICAL UTILITY FOR CONNECTION BY UTILITY.
- A16. ALL UNDERGROUND SERVICE ENTRANCE POWER CABLES SHALL BE TYPE FOR SUCH USE. CONTRACTOR SHALL CALCULATE VOLTAGE DROP AND RE-SIZE CABLES PER NEC REQUIREMENTS FOR CABLE RUNS EXCEEDING 250 FEET.
- B POWER CABLE AND SERVICE
- B1. CONTRACTOR SHALL PROVIDE CONDUIT AND WIRING TO BTS AND VERIFY EXACT CONDUIT ROUTING, RACEWAY SYSTEM MATERIALS AND DEVICES FURNISHED SHALL BE IN ACCORDANCE WITH APPLICABLE STANDARDS OF ANSI, NEWA, AND UL. RACEWAY SYSTEM COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF THE N.E.C.
- B2. CONTRACTOR SHALL SEAL AROUND ALL CONDUIT PENETRATIONS THROUGH WALLS, FLOORS AND ROOFS TO PREVENT MOISTURE PENETRATION OR VERMIN INFESTATION.
- B3. CONDUCTORS RUNNING ALONG HORIZONTAL SURFACES (ROOF TOP OR SLAB) SHALL BE INSTALLED IN RIGID CONDUIT SUPPORTED ON ELECTRICAL CONDUIT SUPPORT.
- B4. ALL VERTICAL RUNS OF POWER CABLE EXCEEDING 80 FEET IN LENGTH SHALL BE SUPPORTED PER N.E.C. ARTICLE 300 USING KELLEMS GRIPS OR ACCEPTABLE EQUAL CABLE SUPPORT SYSTEM.
- WHERE A SEPARATE ELECTRICAL SERVICE DROP IS ADDED, CONTRACTOR SHALL INSTALL PERMANENT SERVICE DISCONNECT OR GROUPING THEREOF, DENOTING ALL OTHER SERVICE ENTRANCES, LOCATION OF EACH AND THE AREAS SERVED BY EACH. B5.
- B8. WHERE ELECTRICAL POWER IS TO BE SUB-FED FROM AN EXISTING DISTRIBUTION SYSTEM, THE FOLLOWING SHALL APPLY: A) CONTRACTOR SHALL PERFORM LOAD TESTING TO DETERMINE MAXIMUM FEEDER DEMAND PER N.E.C. ARTICLE
 - 220-35. B)
 - CONTRACTOR SHALL VERIFY WHETHER EXISTING FEEDER CAPACITY EXCEEDS VALUE CALCULATED PER N.E.C. ARTICLE 220-35 C) EACH BRANCH CIRCUIT PROTECTIVE DEVICE SHALL HAVE SAME INTERRUPTING RATING AS EQUIPMENT SUPPLYING IT.
 - PREFERRED MEANS OF SUPPLY SHALL BE A BRANCH CIRCUIT PROTECTIVE DEVICE LOCATED IN EXISTING PANEL.
 - IF A BRANCH CIRCUIT POTECTIVE DEVICE CANNOT BE OBTINED OR SPACE IS NOT AVAILABLE A BRANCH CIRCUIT MAY BE TAPPED FROM EXISTING FEEDER CONDUCTORS USING AN INSTALLED 2-POLE FUSED DISCONNECT E) AND METER BASE PER N.E.C. ARTICLE 240-21 WITH TEN FOOT (10) MAXIMUM TAP CONDUCTORS. FUSED DISCONNECT SHALL BE LISTED SAME OR BETTER INTERRUPTING RATING AS EXISTING SOURCE OF SUPPLY.

ELECTRICAL NOTES

C - RF (COAX) AND LOW VOLTAGE CABLE

ELECTRICAL CABINETS, ETC

B) C)

D - IDENTIFICATION

A) RUNNING ALONG HORIZONTAL SURFACES: USE WAVEGUIDE SUPPORTS OR BRIDGE KIT MOUNTED ON CONCRETE SLEEPERS.

LINE, PROVIDE A CONTINUOUS UNDERGROUND WARNING TAPE TWELVE INCHES BELOW FINISHED GRADE.

-- Mobile C1. RF CABLES AND LOW VOLTAGE CABLING BETWEEN BTS, LNA OR TMA AND ANTENNA SHALL BE SUPPORTED USING ANDREW "SNAP-IN" HANGERS OR ACCEPTABLE EQUAL C2. RF CABLES AND LOW VOLTAGE CABLING BETWEEN BTS, LNA OR TWA AND ANTENNA SHALL BE ROUTED AS FOLLOWS: RUNNING ALONG VERTICAL TOWER FACE: WAVEGUIDE LADDER W/HANGERS OR KELLEMS GRIPS. RUNNING ALONG OR ADJACENT TO BTS PLATFORM: USE 12 X 3 OPEN OR COVERED ELECTRICAL LADDER D1. LOCATE NAMEPLATE, MARKING, OR OTHER IDENTIFICATION MEANS ON OUTSIDE EQUIPMENT OR BOX FRONT COVERS. D2. PROVIDE NAMEPLATE ENGRAVED WITH EQUIPMENT DESIGNATION FOR EACH SAFETY SWITCH AND ALL OTHER D3. DURING TRENCH BACK-FILLING FOR EACH UNDERGROUND ELECTRICAL, TELEPHONE, SIGNAL AND COMMUNICATIONS ENGINEERING GROUP, INC OGSTHES PLANNING & SETTLE TOMOES CAA: MS E-SOM ENGINEER FMIS 12/02/202 NTE MAKE 9MT0043A 2145 CT POPPS FERRY ROAD BILOXI, MS 39532 0 11/01/22 ISSUED FOR CLENT REV. 1 12/02/22 ISSUED FOR CONSTRUCTEDN

ELECTRICAL NOTES

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DESIGNER:

A - GENERAL A1. INSTALLATION OF GROUNDING ELECTRODE SYSTEM SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRIC CODE AND WITH ALL BUILDING CODES OF AUTHORITIES HANNIG JURISDICTION.

- A2. GROUNDING CONDUCTORS SHALL BE #2 AWG TINNED SOLID BARE COPPER BELOW AND ABOVE GRADE, UNLESS OTHERWISE NOTED AND SHALL BE ROUTED IN A DOWNWARD PATH TOWARDS GROUND BARS.
- A3. GROUNDING CONDUCTORS SHALL BE KEPT AS SHORT AND DIRECT AS POSSIBLE WITH MINIMUM BEND RADIUS OF 12 INCHES.
- A4. ALL BELDW GRADE CONNECTIONS SHALL BE CADWELD TYPE CONNECTIONS AND ALL CONNECTIONS TO EQUIPMENT AND GROUND BARS SHALL BE 2-HOLE BRONZE COMPRESSION CONNECTORS UNLESS OTHERWISE NOTED.
- A5. CONTRACTOR SHALL INSTALL NEW PCS GROUNDING SYSTEM PER SPECIFICATIONS AND INTERCONNECT NEW SYSTEMS TO ANY EXISTING GROUNDING SYSTEMS AS REQUIRED BY NFPA 70 AND 780 (THIS APPLIES TO ELECTRICAL POWER DISTRIBUTION GROUNDING SYSTEM, LIGHTING PROTECTION GROUNDING SYSTEM, CAUSE GROUNDING SYSTEM, AND ANY OTHER EXISTING GROUNDING SYSTEM).
- A8. GROUNDING CONDUCTORS SHALL BE BONDED TO CABLE SUPPORTS, ANTENNA FRAMES, AND ANY SUPPORT FRAMES OR RACKS USING CADWELD OR MECHANICAL CONNECTIONS.
- A7. CONTRACTOR SHALL PROVIDE LOCK WASHERS FOR ALL MECHANICAL CONNECTIONS FOR GROUND CONDUCTORS, STAINLESS STEEL HARDWARE SHALL BE USED THROUGHOUT.
- B. GROUNDING CONDUCTORS EMBEDDED IN CONCRETE OR PENETRATING WALLS AND FLOORS SHALL BE ENCASED IN PVC CONDUIT. NO METALLIC CONDUIT SHALL BE USED FOR GROUNDING CONDUCTORS UNLESS REQUIRED BY LOCAL CODES OR OTHERWISE INDICATED ON DRAWINGS. CONTRACTOR SHALL SEAL AROUND ALL CONDUIT PENETRATIONS TO PREVENT INOSTURE PENETRATION AND VERIMIN INFESTION.
- A9. COMTRACTOR SHALL BOND PCS GROUNDING SYSTEM VIA THE WASTER GROUND BAR TO ALL METAL OBJECTS WITHIN 12 FEET OF EQUIPMENT, CONDUIT AND CABLES.
- A10. BONDING OF GROUNDED CONDUCTOR (NEUTRAL) AND GROUNDING CONDUCTOR SHALL BE AT SERVICE DISCONNECTING MEANS. BONDING JUMPER SHALL BE INSTALLED PER N.E.C. ARTICLE 250-28.
- A11. CONTRACTOR SHALL VERIFY EXACT CONDUIT ROUTING FOR GROUNDING CONDUCTORS WHERE APPLICABLE.
- A12. A GROUND LEAD IS REQUIRED ONLY FOR BTS SUPPORTED ON STEEL FRAME. AN ADOITIONAL GROUND LEAD IS REQUIRED IF CABLE TRAY IS USED.
- A13. CONNECTIONS TO CGB SHALL BE ARRANGED IN THE FOLLOWING THREE GROUPS:
 - SURGE PRODUCERS (COAXIAL CABLE GROUND KITS, TELCO CABINET AND POWER PEDESTAL GROUND).
 SURGE ABSORBERS (GROUNDING ELECTRODE RING OR BUILDING STEEL).
 - SURGE ABSORBERS (GROUNDING ELECTRODE RIN
 NON-SURGING OBJECTS (EGB GROUND IN BTS).
- A14. DOUBLING OR STACKING OF ANY GROUNDING CONNECTIONS IS NOT ACCEPTABLE.
- A15. ALL GROUND BARS SHALL BE INSTALLED WITH STAND OFF INSULATORS.
- B PREPARATION
- B1. SURFACES: ALL CONNECTIONS SHALL BE MADE TO BARE METAL ALL PAINTED SURFACES SHALL BE FIELD INSPECTED TO ENSURE PROPER CONTACT. ALL GALVANIZED SURFACES ON WHICH GALVANIZING HAS BEEN REMOVED BY CUTING, DRILLING, OR ANY OTHER OPENATION SHALL BE RE-GALVANIZED IN ACCORDANCE WITH ASTM VISIO (21)CR (21)
- B2. GROUND BAR: ALL COPPER GROUND BARS SHALL BE CLEANED, POLISHED AND A NON-OXIDIZING AGENT ("COPPER SHIELD") APPLIED. NO FINGER PRINTS OR DISCOLORED COPPER SHALL BE PERMITED.
- C BUILDINGS
- C1. ELECTRICAL CONTRACTOR SHALL PERFORM REQUIRED TESTING ON GROUNDING SYSTEM ONCE GROUNDING SYSTEM IS COMPLETELY CONSTRUCTED AND BEFORE SERVICE POWER AND GROUND IS CONNECTED (SEE NOTE TI FOR TEST DESCRIPTION).
- C2. A #4/O AWG COPPER CONDUCTOR SHALL BE ROUTED FROM WASTER GROUND BAR AT BTS SITE TO MAIN METAL COLD WATER PIPE AND BONDED TO PIPE WITH BROXZE 2-HOLE PIPE CLAMP. CLAMP SHALL BE CONNECTED TO WATER PIPE WITHIN 5 FEET OF ENTRY OF PIPE INTO BUILDING WITH NO DEVICES BETWEEN ENTRY POINT AND CONNECTION AND SHALL COME IN CONTACT WITH PIPE FOR A MINIMUM DISTANCE OF 4 INCHES.
- C3. METAL RACEWAYS, ENCLOSURES, FRAMES AND OTHER NON-CURRENT CARRYING PARTS OF ELECTRICAL EQUIPMENT SHALL BE KEPT AT LEAST 8 FEET AWAY FROM LIGHTING ROD CONDUCTORS OR THEY MUST BE BONDED TO LIGHTING ROD CONDUCTORS AT THE LOCATION WHERE SEPARATION DISTANCE IS LESS THAN 8 FEET.
- C4. A MASTER GROUND BAR (MGB) SHALL BE INSTALLED NEAR BTS WITH BUILDING PRINCIPAL GROUND BAR (BPG) INSTALLED NEAR ENTRANCE OF MAIN METAL COLD WATER PIPE INTO BUILDING. A #4/0 AWG STRANDED COPPER DOWN CONDUCTOR (VERTICAL GROUND RISER) SHALL BE USED TO INTERCONNECT GROUND BARS.
- C5. VERTICAL RISER SHALL CONSIST OF A #4/0 AWG (THWN) STRANDED COPPER CONDUCTOR INSIDE 3/° CONDUIT.
- C8. CONTRACTOR SHALL BOND BUILDING PRINCIPAL GROUND BAR (BPG) NEAR MAIN METAL COLD WATER PIPE TO EXISTING BUILDING GROUND RING AS WELL AS TO MAIN METAL COLD WATER PIPE WITH #4/0 AWG (THWN) STRANDED COPPER CONDUCTOR.
- C7. ANTENNA GROUND BARS (AGB) SHALL BE INSTALLED NEAR ANTENNAS AND SHALL BE BONDED TO MASTER GROUND BAR (MGB) WITH #2 AWG TINNED SOUD BARE COPPER CONDUCTOR.
- C8. IF CODES REQUIRE VERTICAL RISER TO BE ISOLATED IN CONDUIT, PVC CONDUIT IS PREFERRED. IF METALLIC CONDUIT IS USED, GROUNDING BUSHINGS SHALL BE INSTALLED ON EACH END OF THE CONDUIT AND BONDED TO GROUND BARS USING #2 ANG (THWN) STRANDED COPPER CONDUCTORS WITH GREIN INSULATION.
- GROUNDING NOTES

D - LAND BUILDS AND CO-LOCATES

- D1. THE GROUND ELECTRODE SYSTEM SHALL CONSIST OF DRMEN GROUND ROOS UNIFORMLY SPACED AROUND THE EQUIPMENT FOUNDATION AND AROUND THE PERIMETER OF THE TOWER FOUNDATION. THE GROUND ROOS SHALL BE \$\frac{4}{3}\$ x 10'-0' COPPER CLAD STELL INFERCION/PECTED WITH \$\frac{4}{3}\$ SOLD TIMED BARE COPPER CROWD CONDUCTOR TO FORM A GROUND RING AT A DEPTH OF 30 INCHES BELOW THE SWRADE OF THE SOLL A MINIMUM OF 1 FOOT AND A MAXIMUM OF 3 FOOT AND A MAX
- D2. GROUND RODS SHALL BE BONDED TO GROUND RINGS AND INTERCONNECTING CONDUCTORS AT EQUAL INTERVALS OF APPROXIMATELY 10 FEET.
- D3. WAVEGUIDE BRIDGE SHALL BE BONDED TO GROUND RINGS OR INTERCONNECTING CONDUCTORS WITH GROUNDING CONDUCTORS BONDED TO DIAGONALLY OPPOSED SUPPORT POSTS.
- D4. GROUND BARS SHALL BE BONDED TO GROUND RING WITH SINGLE GROUNDING CONDUCTOR
- D5. BONDS TO ANTENNA MASTS, FENCE POSTS, WAVEGUIDE BRIDGE, TOWER STEEL (UNLESS PROHIBITED BY TOWER MANUFACTURER) AND THOSE BELOW GRADE SHALL BE EXCITERING: TYPE (CADWELD). ALL OTHER BONDS SHALL BE BRONZE 2-HOLE COMPRESSION FITTINGS UNLESS OTHERWISE NOTED.
- D8. GROUNDING CONDUCTORS MAKING A TRANSITION FROM ABOVE TO BELOW GRADE SHALL BE INSULATED FROM EARTH CONTACT BY PASSING THROUGH PVC CONDUIT. THE CONDUIT SHALL EXTEND AT LEAST 8 INCHES ABOVE AND 12 INCHES BELOW GRADE LEVEL.
- E LIGHTNING PROTECTION
- E1. IF EXISTING BUILDING HAS AN NFPA 780 AIR TERMINAL SYSTEM, EXISTING SYSTEM SHALL BE BONDED TO A GROUND BAR TO BOND THE EXISTING SYSTEM TO THE NEW SYSTEM. SHOULD THE EXISTING SYSTEM COME WITHIN & FEET OF ANTENNA STRUCTURES, EXISTING SYSTEM SHALL ALSO BE BONDED TO COAX GROUND BARS.
- E2. IF SITE IS IN A HIGH RISK AREA AND ANTENNAS DO NOT FALL WITHIN EXISTING CONE DF PROTECTION FDR BUILDING, AIR TERMINALS SHALL BE INSTALLED AT ANTENNAS, A SINGLE AIR TERMINAL MAY BE USED WHEN TWO ANTENNAS ARE MOUNTED ON SAME STRUCTURE AND IT HAS BEEN DETERMINED THAT BOTH ANTENNAS WILL FALL WITHIN UGHTNING COME OF PROTECTION FOR SINGLE AIR TERMINAL
- T GROUNDING REQUIREMENTS
- T1. CONTRACTOR SHALL INSPECT AND TEST ANY NEW OR EXISTING T-MOBILE GROUNDING SYSTEM WITH A BIDDLE-MEOGER TESTER UTILIZING THE FALL OF POTENTIAL METHOD AND CONTACT CONSTRUCTION MANAGER IF RESISTANCE EXCEEDES 5 OHILS AND SHALL FIELD MODIFY GROUNDING SYSTEM AS NECESSARY TO ACHIEVE COMPLIANCE. TEST RESULTS AND CONCLUSIONS SHALL BE RECORDED FOR PROJECT CLOSE-OUT DOCUMENTATION.
- T2. COAX CABLE OUTER CONDUCTORS (SHIELDS) SHALL BE GROUNDED USING COAX GROUNDING KITS AT A MINIMUM OF TWO POINTS, INCLUDING AT ANTENNA AND AT MASTER GROUND BAR. THE COAXIAL CABLE SHALL NOT EXCEPT 100 FEET BETWEEN BROUNDING KITS.
- T3. GROUNDING CONDUCTOR CONSISTING OF 2-#2 AWG TINNED SOLID BARE COPPER WIRE SHALL BE BONDED TO WAVEGUIDE ENTRY GROUND BAR USING CADWELD CONNECTIONS.
- 74. COAX CABLE ENTERING A BUILDING SHALL BE GROUNDED WITH COAX GROUNDING KITS TO AN INSULATED COAX GROUND BAR WHICH SHALL BE INSTALLED ON THE OUTSIDE FACE OF THE BUILDING, BELOW THE CABLE ENTRY PORTS.
- T5. WHEN COAX CABLES ENTER A BUILDING FROM A TOWER, THE COAX GROUND BAR AT THE BUILDING SHALL BE CONNECTED TO THE EXTERNAL GROUND RING USING 2-#2 AWG BARE TINNED SOLID COPPER ISOLATED IN PVC CONDUT.
- T8. WHEN COAX CABLES ENTER A BUILDING FROM A ROOF TOP, THE COAX GROUND BAR AT THE BUILDING SHALL BE CONNECTED TO THE MASTER GROUND BAR NEAR THE BTS USING ∦2 AWG STRANDED INSULATED COPPER CONDUCTOR (SEE BUILDINGS NOTES ON THIS DRAWING FOR CONNECTION TO PRINCIPLE GROUND BAR AND BUILDING GROUND).



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If you have any questions, please contact my direct line at 940-765-7500 or via email at belina.derzapfl@t-mobile.com. Thank you in advance for your prompt cooperation with this matter.

Sincerely,

Belinda Derzapf

Belinda Derzapf Contractor – Technology & Enterprise Procurement

Encls. CD's dated December 02, 2022

Acknowledged, Accepted and Agreed:

City of Biloxi

By:		
Print Name:		
Title:		
Date:		

On-Site Contact Information:

Name: _____

Title/Role: ______

Phone Number: _____

E-Mail: ______