



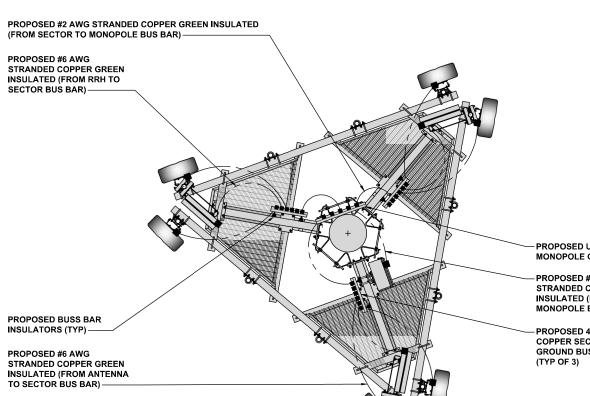
TYPICAL ANTENNA GROUNDING PLAN

NOTE

ANTENNAS AND OVP SHOWN ARE GENERIC AND NOT REFERENCING TO A SPECIFIC MANUFACTURER. THIS

LAYOUT IS FOR REFERENCE ONLY

NO SCALE



TEST GROUND ROD WITH INSPECTION SLEEVE EXOTHERMIC CONNECTION **■** MECHANICAL CONNECTION ____ #6 AWG STRANDED & INSULATED GROUND BUS BAR - - 4/0 AWG BARE STRANDED COPPER GROUND ROD #2 AWG SOLID COPPER ▲ BUSS BAR INSULATOR

GROUNDING LEGEND

- 1. GROUNDING IS SHOWN DIAGRAMMATICALLY ONLY.
- 2. CONTRACTOR SHALL GROUND ALL EQUIPMENT AS A COMPLETE SYSTEM. GROUNDING SHALL BE IN COMPLIANCE WITH NEC SECTION 250. GROUNDING AND BONDING REQUIREMENTS AND MANUFACTURER'S SPECIFICATIONS.
- 3. ALL GROUND CONDUCTORS SHALL BE COPPER; NO ALUMINUM CONDUCTORS SHALL BE USED.

GROUNDING KEY NOTES

- (A) EXTERIOR GROUND RING: 4/0 AWG STRANDED COPPER, BURIED AT A DEPTH OF AT LEAST 30 INCHES BELOW GRADE, OR 6 INCHES BELOW THE FROST LINE AND APPROXIMATELY 36 INCHES FROM THE EXTERIOR PLTE FENCE.
- TOWER GROUND RING: THE GROUND RING SYSTEM SHALL BE INSTALLED AROUND AN ANTENNA TOWER'S LEGS, AND/OR GUY ANCHORS. WHERE SEPARATE SYSTEMS HAVE BEEN PROVIDED FOR THE TOWER AND THE BUILDING, AT LEAST TWO BONDS SHALL BE MADE BETWEEN THE TOWER RING GROUND SYSTEM AND THE BUILDING RING GROUND SYSTEM USING
- (C) BOND TO INTERIOR GROUND RING: 4/0 AWG STRANDED COPPER WIRE PRIMARY BONDS SHALL BE PROVIDED AT LEAST AT FOUR POINTS ON THE INTERIOR GROUND RING.
- D GROUND ROD: UL LISTED COPPER CLAD STEEL. MINIMUM 5/8" DIAMETER BY EIGHT FEET LONG. GROUND RODS SHALL BE DRIVEN TO THE DEPTH OF GROUND RING CONDUCTOR.
- E FRAME BONDING: THE BONDING POINT FOR TELECOM EQUIPMENT FRAMES SHALL BE THE GROUND BUS THAT IS NOT ISOLATED FROM THE EQUIPMENTS METAL FRAMEWORK.
- F ICE BRIDGE SUPPORTS: EACH ICE BRIDGE LEG SHALL BE BONDED TO THE GROUND RING WITH 4/0 AWG STRANDED COPPER CONDUCTOR. PROVIDE EXOTHERMIC WELDS AT BOTH THE ICE BRIDGE LEG AND BURIED GROUND RING.
- G TOWER TOP COLLECTOR BUSS BAR IS TO BE MECHANICALLY BONDED TO PROPOSED ANTENNA MOUNT COLLAR.
- (H) TEST WELL: CONSIST OF GROUND ROD INSTALLED WITH INSPECTION SLEEVE, GROUND RODS TO BE UL LISTED COPPER CLAD STEEL. MINIMUM 5/8" DIAMETER BY EIGHT FEET LONG.
- POST CONSTRUCTION TEST REQUIREMENTS FOR SYSTEM RESISTANCE DESIGN OF 5 OHMS OR LESS.



1901 CHOUTEAU AVE ST. LOUIS, MO 63103



16305 SWINGLEY RIDGE RD, SUITE 230

CHESTERFIELD, MO 63017 (636) 536-5800

PROJECT NO: 409336.0036.2030 DRAWN BY: VDF

CHECKED BY

	Ιí	7	09/16/24	PER JURISDICTION COMMENT
		6	07/01/24	PER CONTRACTOR COMMENT
		5	04/22/24	PER JURISDICTION COMMENT
		4	02/15/24	PER CLIENT COMMENTS
		3	01/09/24	PER JURISDICTION COMMENT
		2	10/16/23	PER JURISDICTION COMMENT
		1	06/15/23	PER JURISDICTION COMMENT
		0	05/19/23	ISSUED FOR 100% CDs
		REV	DATE	DESCRIPTION

E OF MISS JOSHUA R. TURNER NUMBER PE-2018021265 STONAL EN

AMEREN PLTE PROJECT 3605 HWY K **O'FALLON, MO 63368** MONOPOLE

GROUNDING PLANS AND NOTES

PROPOSED UPPER MONOPOLE GROUND BAR PROPOSED #6 AWG STRANDED COPPER GREEN INSULATED (FROM OVP TO MONOPOLE BUS BAR) PROPOSED 4"X6"X1/4" **COPPER SECTOR GROUND BUSS BAR**

GROUNDING KEY NOTES

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