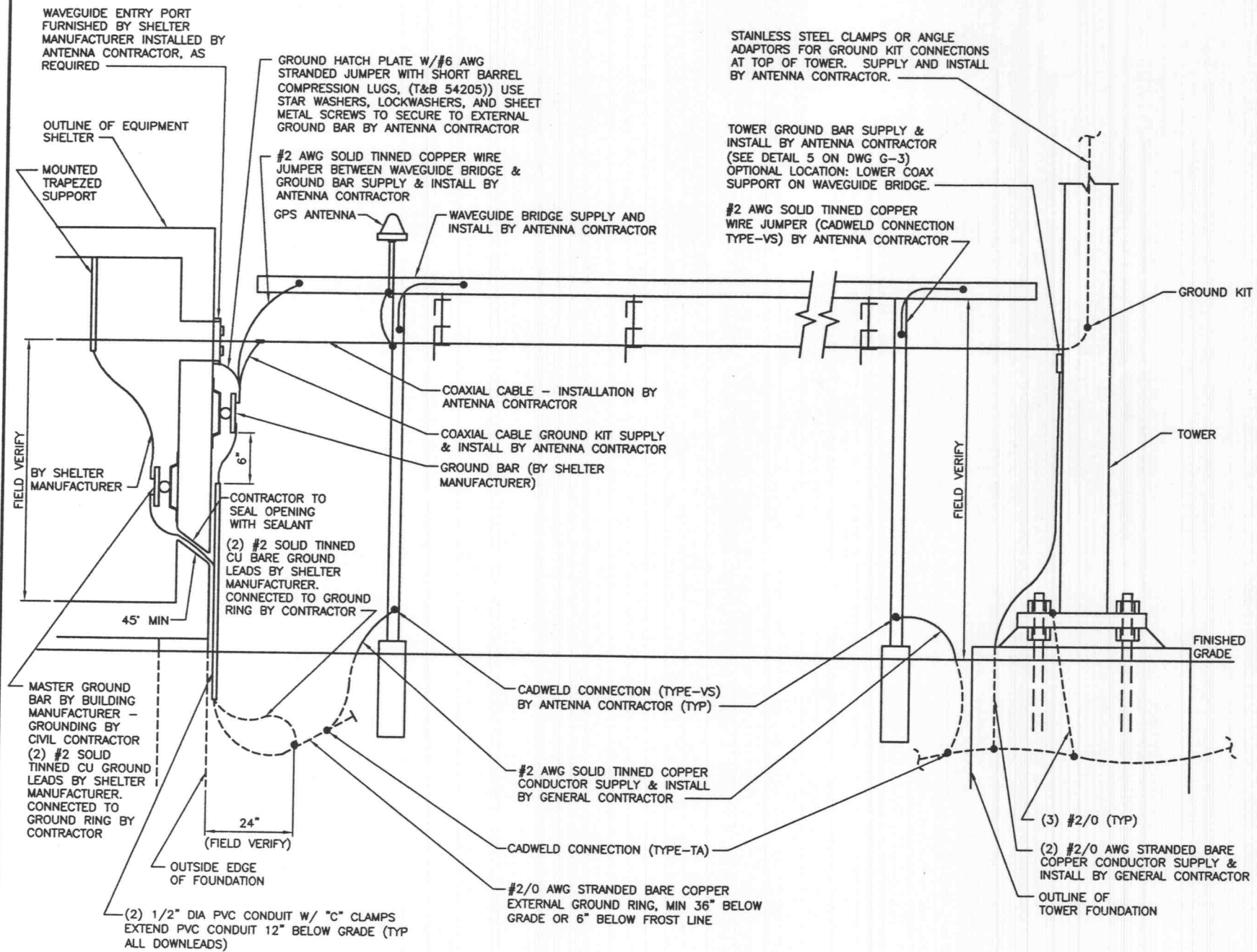


NOTE:
ALL DOWNLEADS IN 3/4" PVC
WITH SEALOUT TO 12" BELOW GRADE



GROUNDING RISER

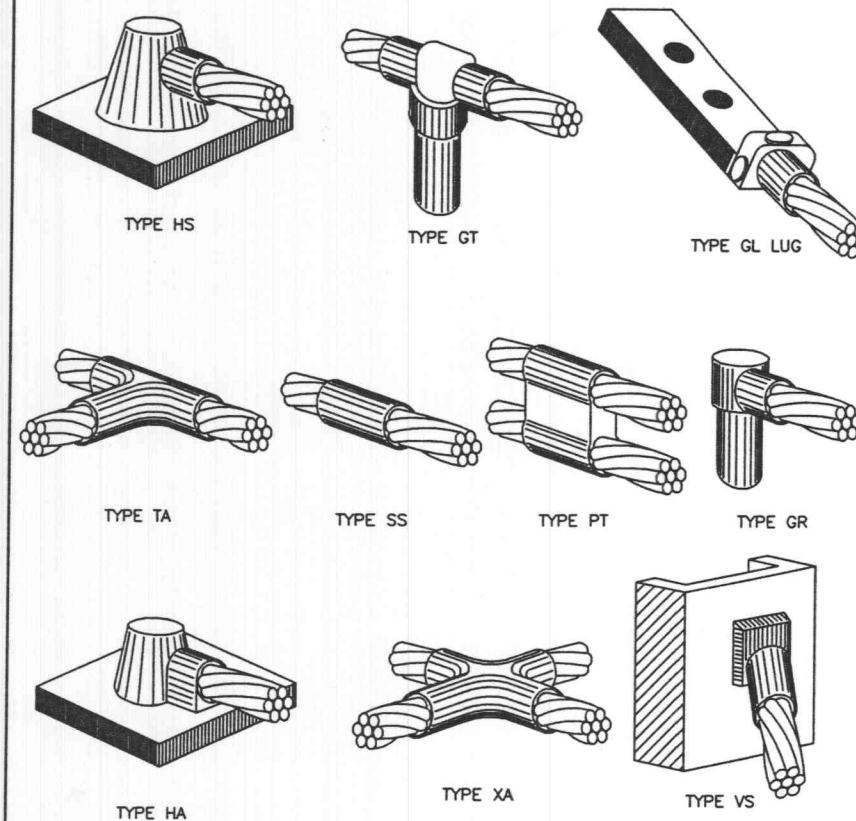
3

GROUNDING SYSTEM:

1. SCOPE:
THIS SECTION COVERS THE SPECIFICATIONS FOR CELL SITE GROUNDING. THE AREAS OF FOCUS ARE: TOWER, BUILDING, AND INSTALLATION METHODS.
2. GENERAL:
 - 2.1 ALL GROUND RODS SHALL BE 3/4" SOLID COPPER 10 FEET LONG. GROUND RODS SHALL BE EQUALLY SPACED AT 8 FOOT TO 10 FOOT INTERVALS. REFER TO SITE GROUNDING PLAN FOR DETAILS AND PLACEMENT WITHIN THE GROUNDING.
 - 2.2 GROUNDING SYSTEM SHALL BE MEGGER TESTED TO ASSURE SATISFYING 1 OHMS OR LESS RESISTANCE UNLESS OTHERWISE SPECIFIED. WRITTEN TEST REPORTS SHALL BE SUBMITTED TO THE USCC PROJECT MANAGER WITHIN SEVEN (7) DAYS OF TESTING.
 - 2.3 ALL CADWELD CONNECTIONS TO GALVANIZED MATERIAL SHALL BE PROPERLY PREPARED TO ASSURE A SATISFACTORY CADWELD. THE CADWELD CONNECTION SHALL BE COATED WITH A COLD GALVANIZING SPRAY TO PREVENT CORROSION.
3. INSTALLATION:
 - 3.1 ALL ABOVE AND BELOW GROUND CONNECTIONS SHALL BE CADWELD UNLESS OTHERWISE INDICATED. NO ALUMINUM CONNECTORS SHALL BE USED.
 - 3.2 NO RIGHT-ANGLE CADWELD CONNECTION (OTHER THAN THE GROUND RODS TO GROUND RING CONNECTION) SHALL BE USED. ALL WIRE-TO-WIRE CONNECTIONS SHALL UTILIZE "Y-TYPE" CONNECTIONS.
 - 3.3 ALL UNDERGROUND WELDS SHALL BE INSPECTED BY USCC PERSONNEL PRIOR TO THE COVERING AND COMPACTION ON OF THE SOIL.
 - 3.4 ALL VERTICAL JUMPERS SHALL NOT BE WELDED WITHIN TWO (2) FEET OF THE GROUND ROD.
5. BUILDING:
 - 5.1 A #2/0 STRANDED BARE COPPER WIRE SHALL BE BURIED MINIMUM THREE (3) FEET UNDERGROUND AND ENIRCLE BUILDING FOUNDATION TWO (2) FEET FROM THE FOUNDATION. GROUND RING CORNERS SHALL BE INSTALLED WITH A MINIMUM TWO FEET RADIUS (NO SHARP RIGHT ANGLE BENDS).
 - 5.2 A #2/0 STRANDED BARE COPPER WIRE SHALL BE INSTALLED FROM THE BUILDING GROUND RING AND CONNECTED TO THE COPPER BUS BAR LOCATED ON OUTSIDE OF BUILDING UNDER THE WAVEGUIDE PORT WITH A MINIMUM NINE INCHES (9") RADIUS. A "Y-TYPE" OR "PARALLEL-TYPE" CADWELD CONNECTION SHALL BE USED FOR ALL CONNECTIONS TO THE GROUND RING.
 - 5.3 FOUR (4) ADDITIONAL #2/0 STRANDED BARE COPPER GROUND WIRE LEADS (SUPPLIED WITH THE BUILDING) SHALL BE INSTALLED FROM OUT OF THE BUILDING CORNERS AND SHALL BE CONNECTED TO THE #2/0 BUILDING GROUND RING USING "Y-TYPE" CADWELD CONNECTIONS.

GROUNDING NOTES

1



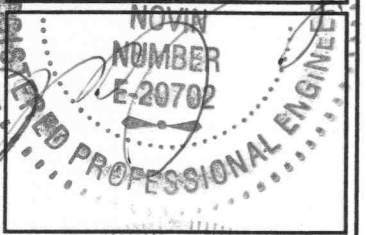
CADWELD DETAILS

2



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PROJECT NO. 832614-1

DRAWN BY: ANP

CHECKED BY: HAN/RWQ

SUBMITTALS		
A	04/21/05	ISSUED FOR REVIEW ANP
0	05/03/05	ISSUED FOR CONSTRUCTION MTC

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SITE NAME
CITY OF O'FALLON
(USCC SITE NAME: ST. PAUL)

321 FIRMA ROAD
O'FALLON, MISSOURI 63366

SHEET TITLE
GROUNDING DETAILS (1 OF 2)

SHEET NUMBER
G-2