

ANTENNA MOUNTING

SECTOR A (TYP. FOR

REMAINING SECTORS)

RX/TX

PROPOSED GROUND-

RX/TX

GROUND BAR

CABLE TRAY

PROPOSED GROUND-

ROD (TYP.)

RX/TX

RX/TX

GROUNDING DIAGRAM

SCALE: N.T.S

CONCRETE PAD

CABLE GROUND KIT

REFER TO NOTE #6

CABINETS GROUNDED-

PER MANUFACTURER'S SPECIFICATIONS (TYP.)

(TYP.)

E-2

CORNER POST

COUPLING JUMPER TYP. AT ALL TOP

TINNED COPPER WIRE

MEMBERS

#2 AWG BARE

GPS

#2 TINNED

#2 AWG BARE — TINNED COPPER

WIRE

SOLID COPPER

CONSTRUCTION Verizon wireless 400 FRIBERG PARKWAY WESTBOROUGH, MA 0158 (508) 330-3330 TEL FOR

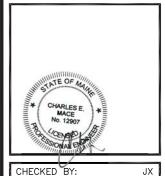
Hudson Design Groupus 600 OSGOOD STREE BUILDING 20 NORTH, SUITE 3090 TEL: (978) 557-3 ANDOVER, MA 01845 FAX: (978) 336-55

GROUNDING NOTES

- 1. ALL GROUND WIRE SHALL BE BARE COPPER #2 AWG UNLESS OTHERWISE NOTED
- ALL GROUND WIRES SHALL PROVIDE A STRAIGHT,
 DOWNWARD PATH TO GROUND WITH GRADUAL BENDS
 AS REQUIRED. GROUND WIRES SHALL NOT BE LOOPED OR SHARPLY BENT.
- ELECTRICAL CONTRACTOR SHALL COORDINATE INSTALLATION OF GROUND RODS AND GROUND RING WITH FOUNDATION AND UNDERGROUND CONDUIT.
- . EACH EQUIPMENT CABINET SHALL BE CONNECTED TO THE MASTER ISOLATION GROUND BAR (MIGB) WITH #2 AWG INSULATED STRANDED COPPER WIRE. EQUIPMENT CABINETS SHALL EACH HAVE (2)
- 5. PROVIDE DEDICATED #2 AWG COPPER GROUND WIRE FROM EACH ANTENNA MOUNTING PIPE TO ASSOCIATED CIGBE (TYPICAL FOR FOUR MOUNTING PIPES PER SECTOR).
- 6. ANTENNA GROUND KITS SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- 7. COORDINATE NEW LICENSEE GROUND SYSTEM WITH EXISTING
- 8. EACH SECTION OF CABLE TRAY, ICE BRIDGE AND ICE SHIELD SHALL BE CONNECTED IN A FASHION TO PROVIDE A CONTINUOUS GROUND.
- AT ALL TERMINATIONS AT EQUIPMENT ENCLOSURES, PANELS AND FRAMES OF EQUIPMENT, AND WHERE EXPOSED FOR GROUNDING, CONDUCTOR TERMINATION SHALL BE PERFORMED UTILIZING TWO HOLE BOLTED TONGUE COMPRESSION TYPE WITH STAINLESS STEEL SELF—TAPPING SCREWS.
- 10. ALL CLAMPS AND SUPPORTS USED TO SUPPORT THE GROUNDING SYSTEM CONDUCTORS AND PVC CONDUITS SHALL BE PVC TYPE (NON CONDUCTIVE). DO NOT USE METAL BRACKETS OR SUPPORTS WHICH WOULD FORM A COMPLETE RING AROUND ANY GROUNDING CONDUCTOR
- ALL GROUNDING CONNECTIONS SHALL BE COATED WITH A COPPER SHIELD ANTI-CORROSIVE AGENT SUCH AS T&B KOPR SHIELD. VERIFY PRODUCT WITH LICENSEE PROJECT
- 12. ALL BOLTS, WASHERS, AND NUTS USED ON GROUNDING CONNECTIONS SHALL BE STAINLESS STEEL.
- 13. INSTALL GROUND BUSHINGS ON ALL METALLIC CONDUITS AND BOND TO THE EQUIPMENT GROUND BUS IN THE
- 14. GROUND ANTENNA BASES, FRAMES, CABLE RACKS AND OTHER METALLIC COMPONENTS WITH #2 GROUNDING CONDUCTORS AND CONNECT TO INSULATED SURFACE MOUNTED GROUND BARS. CONNECTION DETAILS SHALL FOLLOW MANUFACTURER'S SPECIFICATIONS FOR
- 15. GROUND COAXIAL SHIELD AT BOTH ENDS USING
- 16. REINFORCEMENT IN EQUIPMENT SLAB TO BE WELDED AND REINFORCEMENT TO BE BONDED TO GROUNDING RING.
- 17. CONCRETE-ENCASED ELECTRODES GREATER THAN 20 S.F. OF SURFACE AREA & 1/2" OR GREATER REINFORCING STEEL MUST BE BONDED TO THE GROUNDING RING PER NEC 250.50. MANUFACTURER'S GUIDELINES.

GROUNDING LEGEND

EXOTHERMIC TYPE CONNECTION COMPRESSION TYPE CONNECTION #2 SOLID TINNED COPPER WIRE UNLESS OTHERWISE NOTED 5/8" x 10'-0" COPPER CLAD GROUND ROD \otimes \boxtimes GROUND WELL



CHECKED BY:

APPROVED BY: DPH

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PORTLAND 3 ME

SITE ADDRESS: 476 SUMMIT STREET PORTLAND, ME 04103

SHEET TITLE ELECTRICAL/ GROUNDING RISER DIAGRAM

SHEET NUMBER