

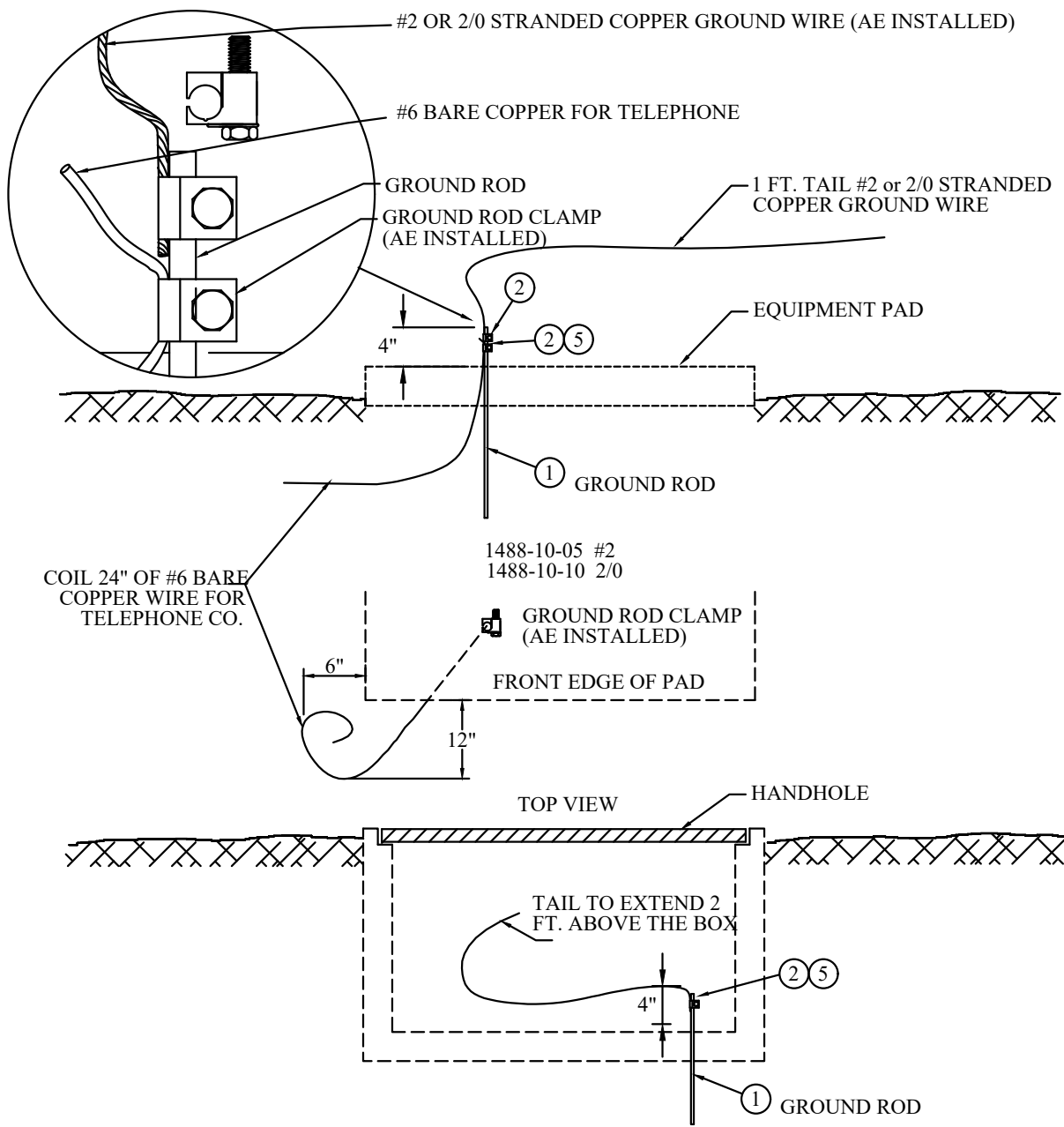
	CIVIL	SECTION:
	UNDERGROUND STRUCTURE GROUNDING	1488
		SHEET:
		1 OF 1

1488

UNDERGROUND STRUCTURE GROUNDING

CONTAINS
1488-10 GROUNDING STRUCTURES IN SOFT SOIL
1488-20 GROUNDING STRUCTURES IN ROCKY SOIL

DETAILS
GROUNDING IN ROCKY SOIL: SEE 1488-20

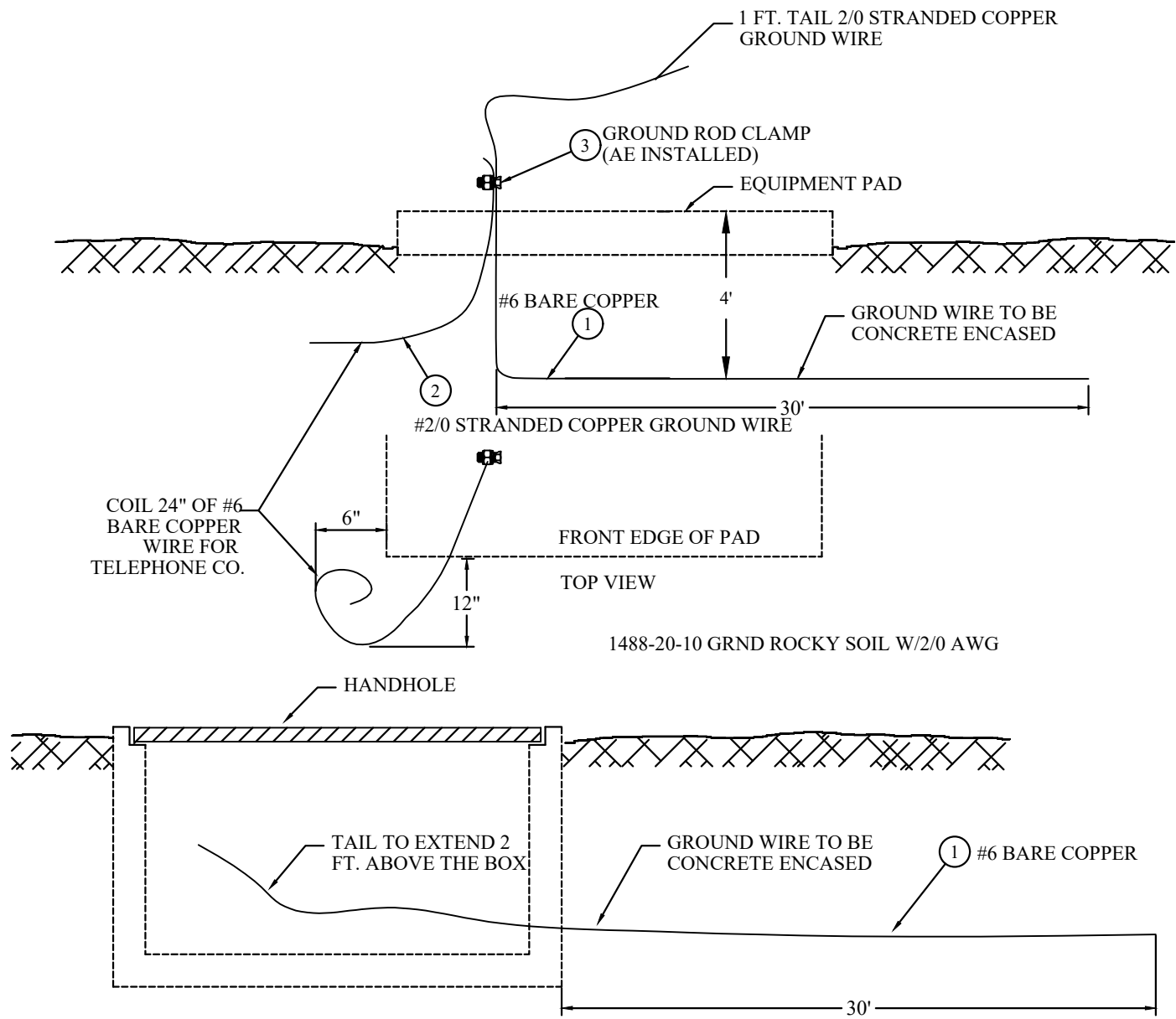


NOTES:

1. WHEN INSTALLED IN SOFT SOIL, EQUIP ALL PAD-MOUNTED EQUIPMENT LOCATIONS AND SUBSTRUCTURES WITH PRIMARY CABLE SPLICES, WITH AT LEAST ONE GROUND ROD.
2. EXACT LOCATIONS OF GROUND RODS AND GROUND WIRES ARE SPECIFIED IN EQUIPMENT PAD DETAILS. ALL SWITCHGEAR PADS, REQUIRE THE INSTALLATION OF AT LEAST TWO GROUND RODS, AT THE LOCATIONS SHOWN ON PAD DETAILS.
3. THE GROUND WIRE SHALL BE #2 STRANDED SOFT-DRAWN CU, AT ALL TRANSFORMER PADS AND HANDHOLES, WITH 500 KCMIL AND 750 KCMIL SPLICES AND IS AE INSTALLED.
4. INSTALL #6 BARE CU GROUND FOR TELEPHONE CO AT ALL PAD-MOUNTED TRANSFORMER LOCATIONS AS SHOWN.
5. GROUND RESISTANCE SHOULD BE LESS THAN 25 OHMS AT THE TIME OF INSTALLATION.
6. IF ONE DRIVEN GROUND ROD IS NOT ADEQUATE TO ACHIEVE 25 OHMS OF GROUND RESISTANCE, AE MAY ASK FOR ADDITIONAL GROUND RODS OR BURIED ENCASED ELECTRODE GROUND INSTALLATION AS SHOWN ON PAGE 1488-20.

CU-REF	CU-ID	CU-DESCRIPTION
14881005	GRNDRODSOFT2WIR	GRND SOFT SOIL W/ROD #2 STRND
14881010	GRNDRODSOFT2/0WIR	GRND SOFT SOIL - W/ROD 2 /0 AWG STR

DETAILS
 GROUNDING IN SOFT SOIL: SEE 1488-10



- NOTES:**
- ALL PAD-MOUNTED EQUIPMENT LOCATIONS AND SUBSTRUCTURES WITH PRIMARY CABLE SPLICES SHALL BE EQUIPPED WITH A BURIED ENCASED ELECTRODE GROUND, WHEN INSTALLED IN ROCKY SOIL OR WHERE THE INSTALLATION OF A GROUND ROD AS SHOWN ON PAGE 1488-10 IS DEEMED ADEQUATE.
 - LOCATIONS OF GROUND RODS AND GROUND WIRES ARE SPECIFIED IN EQUIPMENT PAD DETAILS.
 - THE GROUND WIRE SHALL BE 2/0 STRANDED SOFT-DRAWN CU FOR TRANSFORMER PADS AND SECTIONALIZING CABINETS AND IS AE INSTALLED.
 - THE BURIED ELECTRODE SHALL BE 2/0 STRANDED SOFT-DRAWN CU AT ALL TRANSFORMER PADS AND HANDHOLES WITH 1/0 AWG AL SPLICES.
 - THE BURIED ELECTRODE SHALL BE INSTALLED SURROUNDED BY A 2-IN. CONCRETE ENVELOPE. IN URD INSTALLATIONS, WHERE SAND IS THE PREFERRED BACKFILL MATERIAL, THE PORTION OF THE CONDUIT WITH THE ENCASED ELECTRODE SHALL BE CONCRETE ENCASED.
 - FOR TRANSFORMER INSTALLATIONS, THE ENCASED ELECTRODE SHALL ALWAYS BE INSTALLED IN THE PRIMARY CONDUIT TRENCH.

CU-REF	CU-ID	CU-DESCRIPTION
14881005	GRNDRDROSOFT2WIR	GRND SOFT SOIL W/ROD #2 STRND
14881010	GRNDRDROSOFT2/0WIR	GRND SOFT SOIL - W/ROD 2 /0 AWG STR