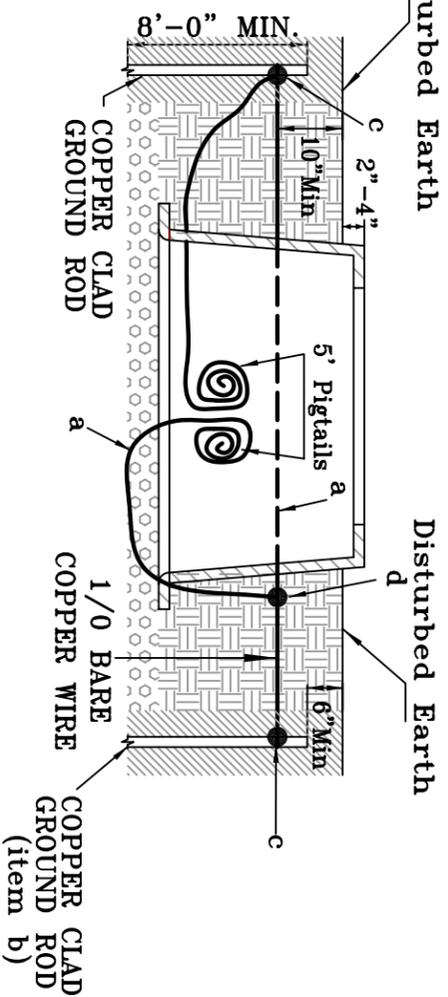
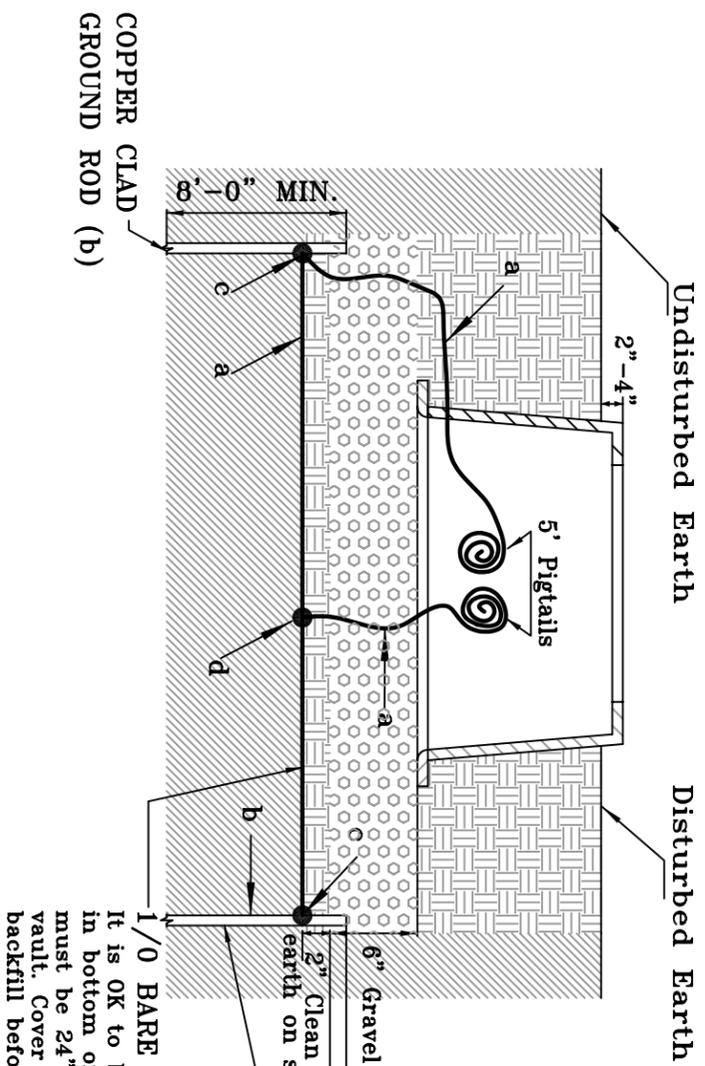


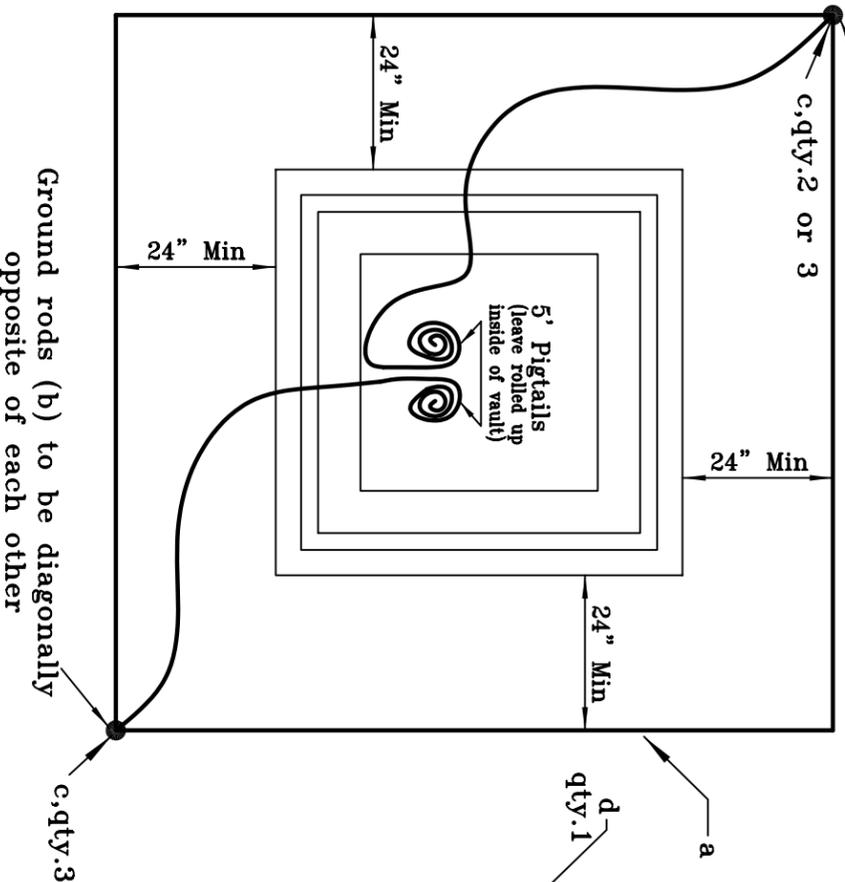
**GROUNDING  
EXISTING EQUIPMENT**  
(Choice B Depicted In this View)



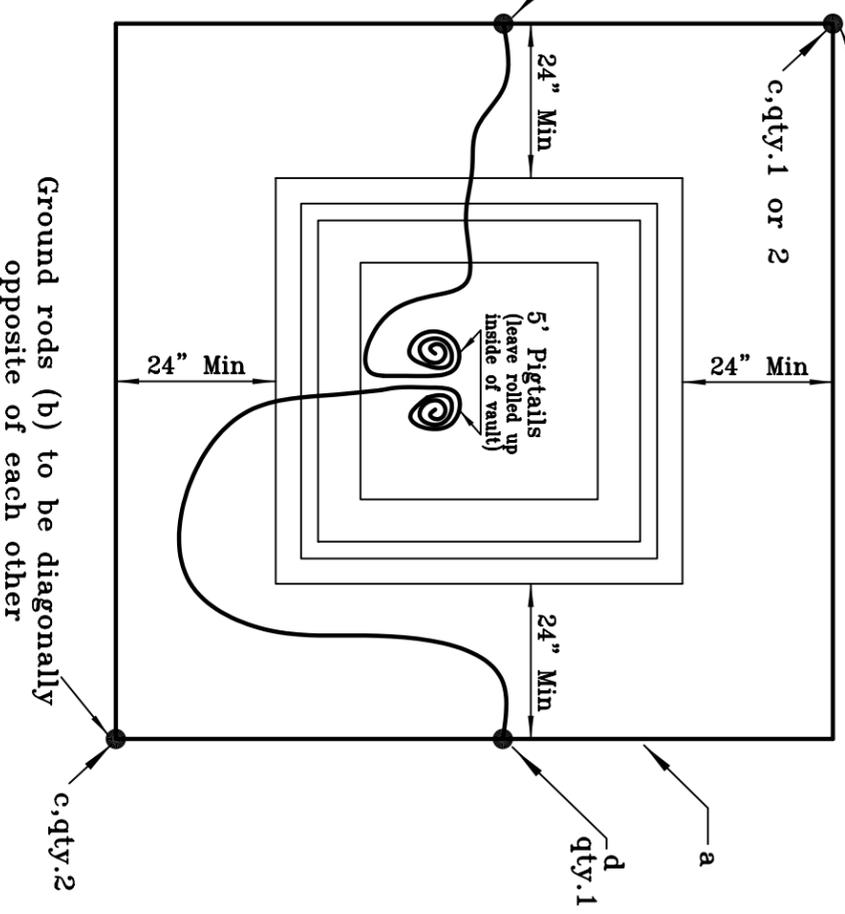
**GROUNDING  
NEW EQUIPMENT**  
(Choice B Depicted In this View)



Ground rods (b) to be diagonally opposite of each other



Ground rods (b) to be diagonally opposite of each other



**CHOICE A:  
TOP VIEW**

**CHOICE B:  
TOP VIEW**

**GROUND ROD**  
OK to place rod in bottom of new vault's hole. Must be at least 24" from side of vault. Rod shall be approx. 1" above clean backfill covering copper ground grid.

**1/0 BARE COPPER WIRE**  
It is OK to bury 1/0 cu wire in bottom of vault hole. It must be 24" from sides of vault. Cover with clean backfill before adding gravel.

Item	CORED P/N	Description
a	3-5704	Wire, Copper BARE 1/0 7STR MHD (Medium Hard Drawn)
b	3-4323	Ground Rod, 5/8" x 8' Copper Clad
c	3-0809	GROUNDING CONNECTOR, SHEAR-LOK 5/8" ROD TO 1/0 CABLE; AMP P/N 83000-1, OR CONNECTOR PRODUCTS INC. P/N 900102 (CPI24)
d	3-0810	GROUNDING CONNECTOR, SHEAR-LOK 1/0 TO 1/0 CABLE; AMP P/N 83747-3, OR CONNECTOR PRODUCTS INC. P/N 900103 (CPI117)

**NOTES:**

- Place two ground rods at opposite corners. Minimum distance between ground rods shall be 6'0".
- Grounding grid of 1/0 bare copper (a) shall be buried 1" below ground (in bottom of hole, 10" below ground if added around existing equipment). Run wire into basement of vault and roll up a minimum of 5'0" inside the vault.
- Place ground wire a minimum of 24" away from the sides of vault or equipment.
- 8'0" minimum length of ground rods (2 rods total).
- Resistance to ground not to exceed 25 ohms. Add rods if resistance is greater than 25 ohms.
- Ground rods shall be located in undisturbed earth where practical. Rods must be driven into the ground vertically and are not to be laid horizontally in the bottom of the hole.

REV	DATE	DRWN	APPD	DESCRIPTION
1	6-28-07	JRW	MEB	ADDED TOP VIEW CHOICE A, CHANGED ITEM LETTERING
2	1-01-10	PWS	MEB	HANDBOOK UPDATE.

**GROUNDING MANHOLES, VAULTS,  
SECTOR SLEEVES, AND PEDESTALS**

SUPERSEDES: S504 & S505  
DRWN: J. Warner  
APPD: MEB  
DATE: 6-28-07  
SCALE: NTS

CORDED STANDARD NUMBER **514 R 2**