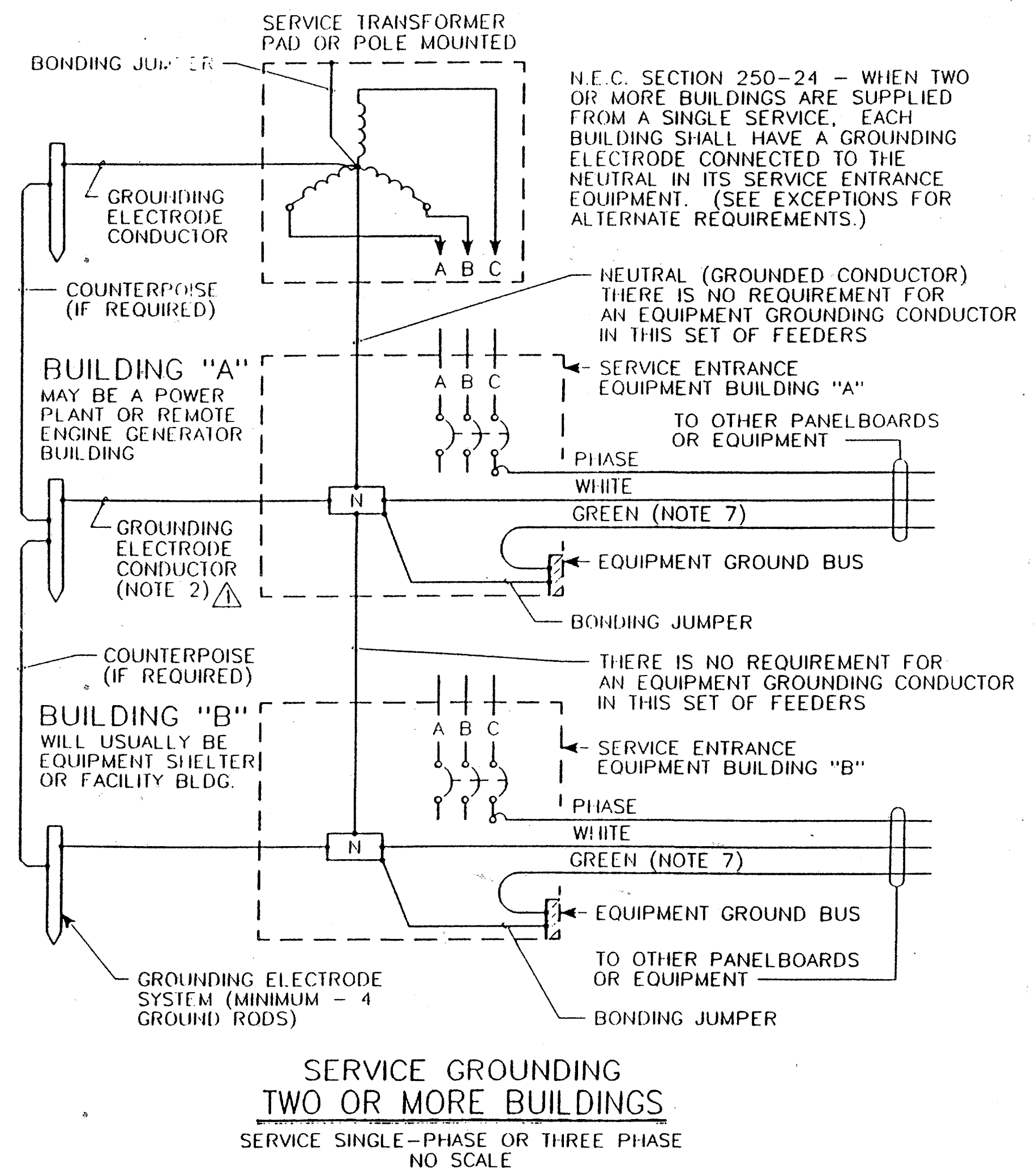
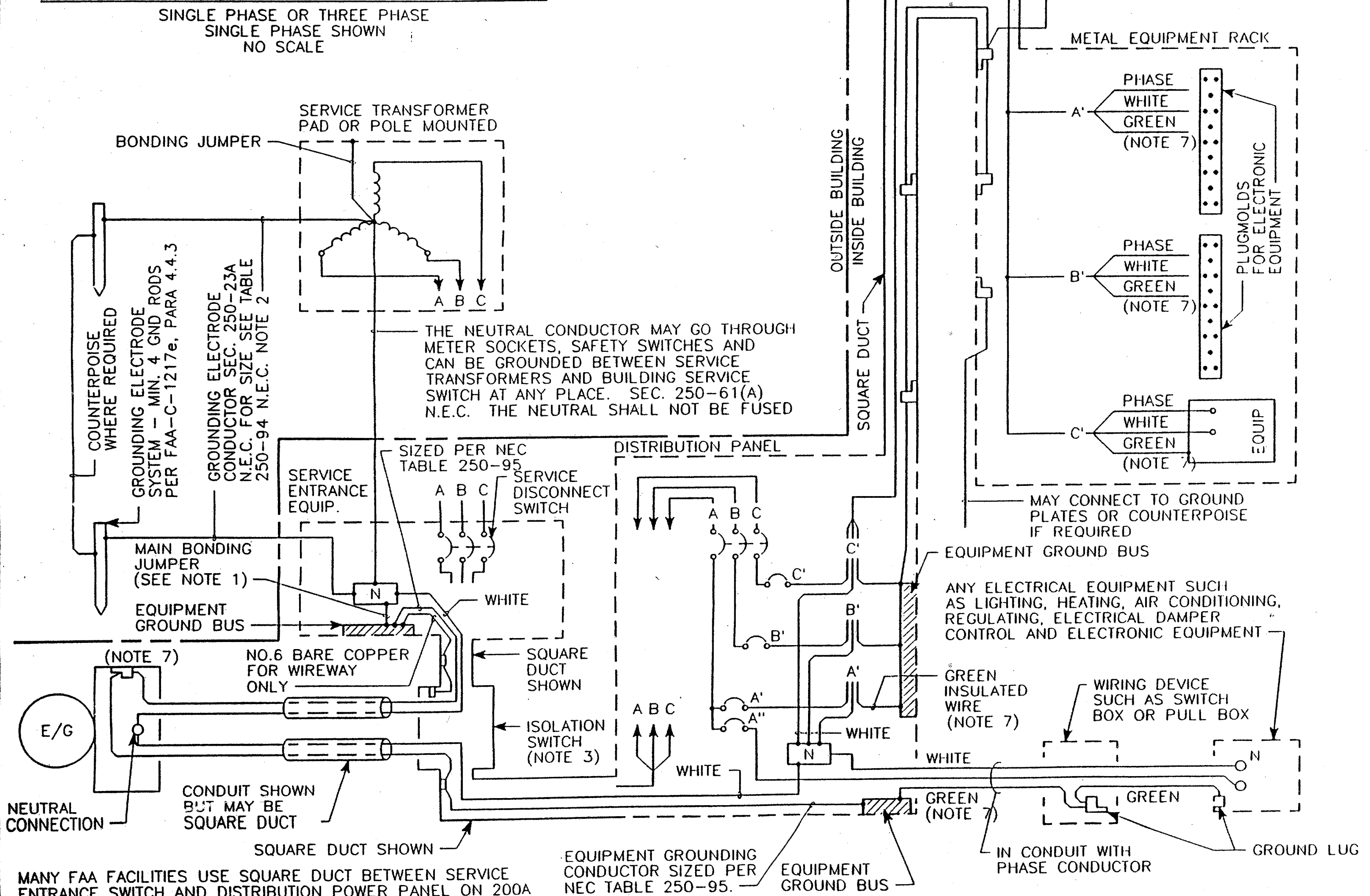


**DISTRIBUTION TRANSFORMER GROUNDING**



**NOTES:**

1. MAIN BONDING JUMPER CONNECTS THE GROUNDED CONDUCTOR (NEUTRAL), THE SERVICE EQUIPMENT ENCLOSURE AND THE EQUIPMENT GROUND BUS TOGETHER. BONDING JUMPER MAY BE A WIRE, A BUS OR A SCREW.
2. GROUNDING ELECTRODE CONDUCTOR (BARE OR INSULATED, NOT GREEN) SHALL BE CONNECTED TO THE AC SYSTEM GROUNDED CONDUCTOR (NEUTRAL). IT SHALL RUN DIRECTLY TO THE GROUNDING ELECTRODE SYSTEM WITHOUT SPLICE AND SHALL BE PROTECTED FROM MECHANICAL DAMAGE.
3. THE ENCLOSURE OF THE ISOLATION SWITCH SHOULD NOT BE USED AS AN EXTENSION OF THE NEUTRAL BUS IN THE SERVICE ENTRANCE EQUIPMENT. HOWEVER, ON PRE-WIRED STANDBY SYSTEMS WHERE THIS HAS BEEN DONE AND APPROVED AT THE NATIONAL LEVEL, NO ACTION SHOULD BE TAKEN TO CHANGE THE WIRING.
4. THIS DRAWING DOES NOT REQUIRE THAT EXISTING FACILITIES BE CHANGED. USE THIS DRAWING ON NEW FACILITIES AND WHEN WORK IS BEING DONE ON EXISTING FACILITIES.
5. NOT USED
6. THIS DRAWING SHALL NOT GOVERN OVER SPECIAL REQUIREMENTS SHOWN ON INDIVIDUAL FACILITY DRAWINGS.
7. THE EQUIPMENT GROUND (GREEN) CONDUCTOR IS SIZED ACCORDING TO THE OVERCURRENT DEVICE RATING WHERE THE CIRCUIT DISTRIBUTION IS ORIGINATED, PER N.E.C., TABLE NO. 250-95.

MANY FAA FACILITIES USE SQUARE DUCT BETWEEN SERVICE ENTRANCE SWITCH AND DISTRIBUTION POWER PANEL ON 200A SERVICE AND LESS. THE 6" BARE COPPER USED FOR BONDING SQUARE DUCT WILL NOT SATISFY GROUNDING REQUIREMENTS BETWEEN SERVICE SWITCH AND DISTRIBUTION POWER PANEL ON LARGER THAN 200A SERVICES. AN ADDITIONAL GREEN GROUNDING CONDUCTOR CONNECTING SERVICE SWITCH AND ENGINE GENERATOR AND DISTRIBUTION PANEL WILL BE REQUIRED.

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION	
SOUTHWEST REGION	FORT WORTH, TEXAS
<b>GROUNDING STANDARDS POWER SERVICE DETAILS</b>	
SUBMITTED: ORIGINAL SIGNED BY: <b>CHRISTIAN C. CALLAHAN</b> for	APPROVED: ORIGINAL SIGNED BY: <b>G. R. RIVERA</b>
SUPERVISOR OF SECTION, ASW-454	MANAGER OF BRANCH, ASW-450
DESIGNED: JACK PARKER	ISSUED BY: DATE: 04-10-82
REVIEWED: B.R.F.	AIRWAY FACILITIES DIVISION
ORIG. DFT.: JAF/CMC 7-11-85	SWSD-GROUNDING-E03-01
REV. DATE DESCRIPTION	DWG. CHECKED FACILITY
06-07-95 GENERAL REVISIONS	JLM B.R.F.