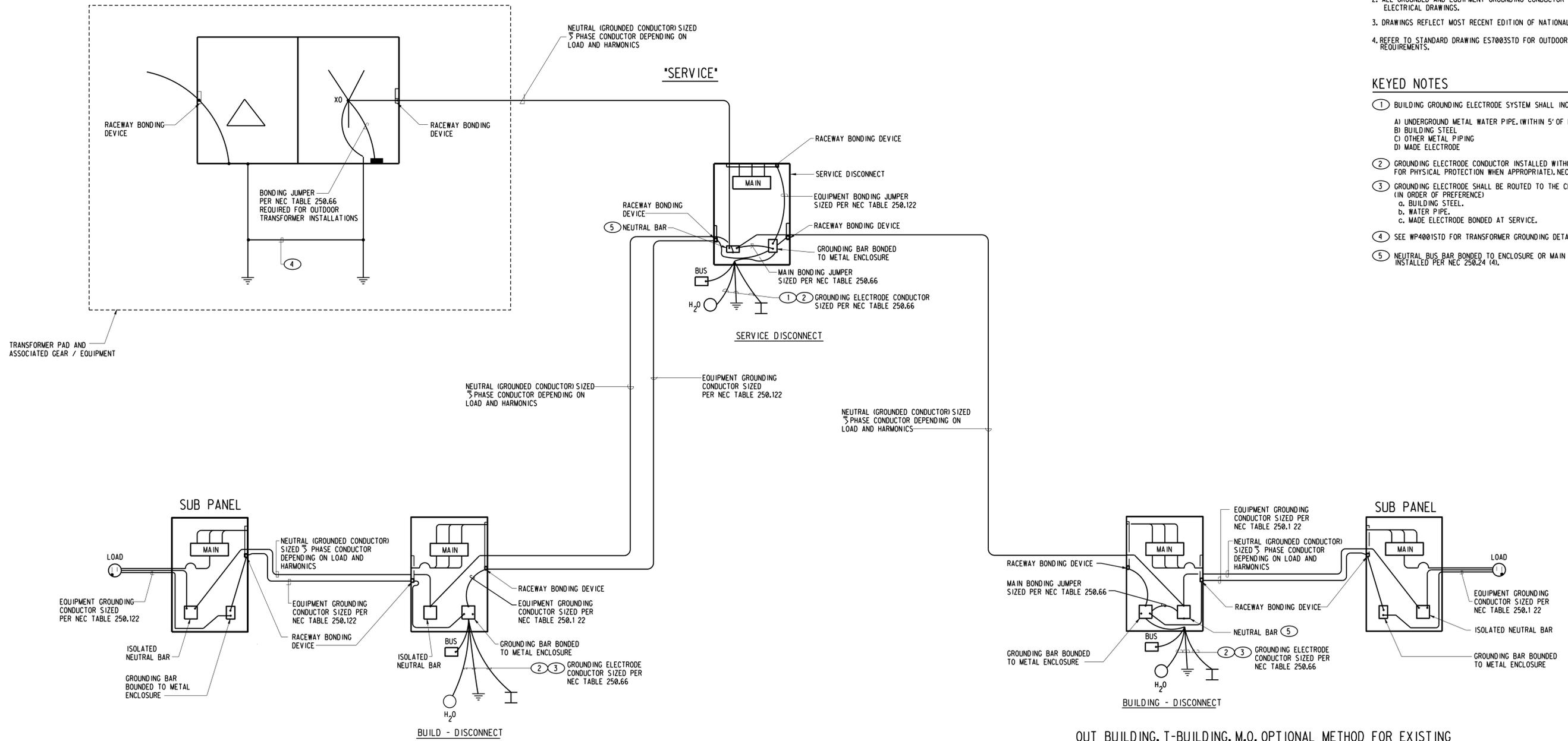


NOT TO BE USED AS A STANDARD DRAWING

DEVELOP SITE SPECIFIC DRAWINGS USING THESE GUIDELINES



OUT BUILDING, T - BUILDINGS, M.O.'S
PREFERRED METHOD FOR ALL NEW INSTALLATIONS

OUT BUILDING, T-BUILDING, M.O. OPTIONAL METHOD FOR EXISTING
INSTALLATIONS WHERE AN EQUIPMENT GROUNDING CONDUCTOR
HAS NOT BEEN INSTALLED OR GROUND PATH DOES NOT EXIST

STANDARD GROUNDING ONE-LINE DIAGRAM FOR SEPARATE BUILDING FED FROM ANOTHER BUILDING

SCALE: NTS

GENERAL NOTES

- OTHER SYSTEMS TO BE BONDED TO GROUNDING ELECTRODE SYSTEM.
 - LIGHTNING PROTECTION.
 - INTERIOR METALLIC GAS PIPE.
 - ANTENNAS.
 - TELEPHONE SERVICE.
 - INTERIOR METAL WATER PIPE.
 - OTHER METAL INTERIOR PIPING.
- ALL GROUNDING AND EQUIPMENT GROUNDING CONDUCTOR SIZES SHALL BE SHOWN ON ELECTRICAL DRAWINGS.
- DRAWINGS REFLECT MOST RECENT EDITION OF NATIONAL ELECTRIC CODE.
- REFER TO STANDARD DRAWING EST003STD FOR OUTDOOR SERVICE GROUNDING REQUIREMENTS.

KEYED NOTES

- BUILDING GROUNDING ELECTRODE SYSTEM SHALL INCLUDE ALL AVAILABLE POINTS.
 - UNDERGROUND METAL WATER PIPE, (WITHIN 5' OF ENTRANCE AND PRIOR TO VALVES).
 - BUILDING STEEL
 - OTHER METAL PIPING
 - MADE ELECTRODE
- GROUNDING ELECTRODE CONDUCTOR INSTALLED WITHOUT CONDUIT (USE CONDUIT FOR PHYSICAL PROTECTION WHEN APPROPRIATE), NEC 250.64 (B).
- GROUNDING ELECTRODE SHALL BE ROUTED TO THE CLOSEST AVAILABLE ELECTRODE. (IN ORDER OF PREFERENCE)
 - BUILDING STEEL.
 - WATER PIPE.
 - MADE ELECTRODE BONDED AT SERVICE.
- SEE WP4001STD FOR TRANSFORMER GROUNDING DETAILS.
- NEUTRAL BUS BAR BONDED TO ENCLOSURE OR MAIN BONDING JUMPER, INSTALLED PER NEC 250.24 (4).

REV	DATE	DESCRIPTION	DWN	CKD	APP
Δ	03/12	ADDED GEN NOTE 4	NR	EB	EB
Δ	11/11	GENERAL REVISIONS	NR	EB	
Δ	9/09	REVISED BONDING JUMPER	MN	HDE	
Δ	6/01	UDS MODS	EG	FL	

U.S. DEPARTMENT OF ENERGY					
NNSA/SANDIA SITE OFFICE			ALBUQUERQUE, NEW MEXICO		
SANDIA NATIONAL LABORATORIES					
Grounding One-Line Diagram					P.O.
Standards					PROJECT NO.
					DRAWN BY
					CHECKED BY
					SNL ENGR
DISCP: E	SUB-DISCP: S	STD	DATE	06/30/2001	REV.
OLD FILENAME: 083639E.22	SIZE	DRAWING NO.			
FILENAME: EST002STD.DGN	D+	EST002STD.DGN			

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