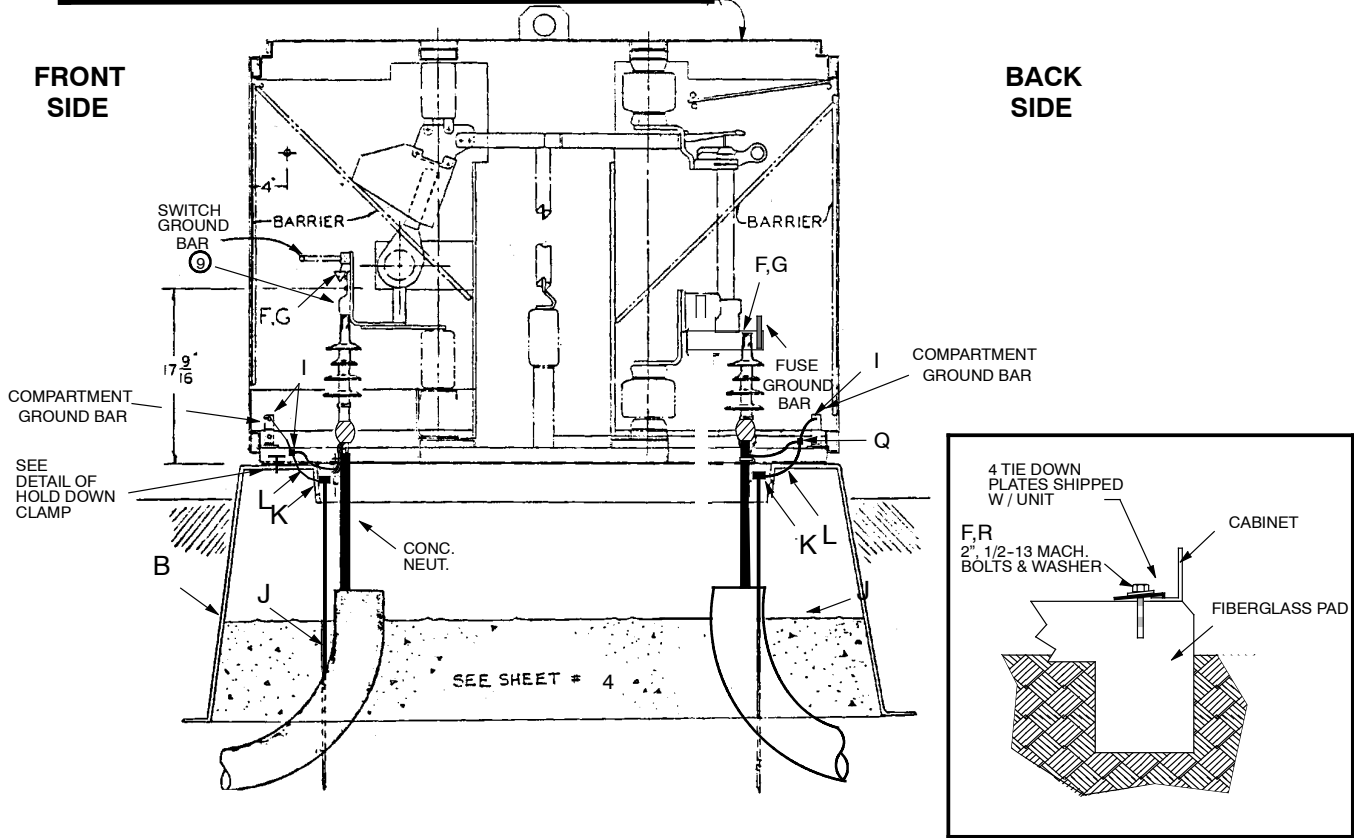
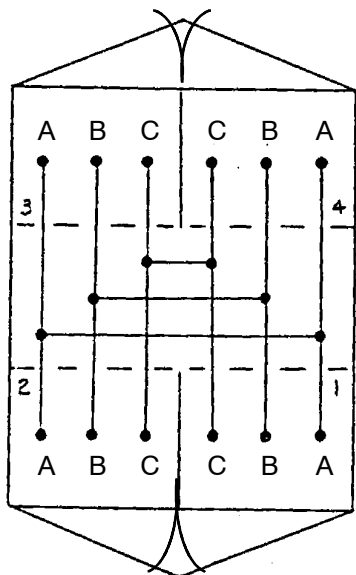


LIMITED USE STANDARD



SECTION RIGHT-HAND SIDE SWITCH GEAR & PAD

HOLD DOWN CLAMP DETAIL



COMPARTMENT PHASING DESIGNATION

NOTES:

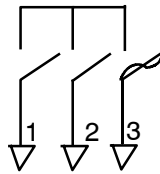
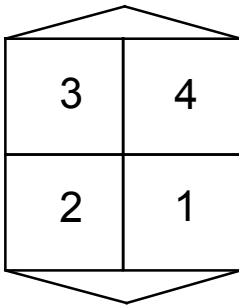
1. Connect conc. neutral from each cable to #2 Cu. wire connected to grd. rod and compartment grd. bar **SIMILAR CONNECTIONS TO BE MADE IN EACH EQUIPPED COMPARTMENT.**
2. 10' min. clearance shall be provided at front and back of switchgear for operation. 4' min. clearance shall be provided at sides of switchgear.
3. Typical installations will require 3 terminations per compartment sized according to the particular cable being used.
4. Install a label on the switchgear where it can be seen from the street with the proper Pad number. Use the appropriate Reflective Numbers 16-04-1XX.
5. Install a label on each compartment door with the letters LAT____ or DIP. Use Reflective Letters 16-04-320, 16-04-317, 16-04-321 or 16-04-418, 16-04-419, 16-04-737 and the appropriate Reflective Numbers 16-04-1XX.

LIMITED USE STANDARD

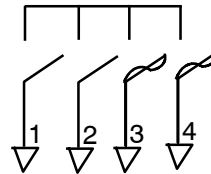
6. Install a label by each switch handle with the letter D _____. Use Reflective Letter 16-04-418 and the appropriate Reflective Numbers 16-04-1XX.
7. See Dist. Std. **59 52 00 43** for procedures on installation of belleville washers.
8. See sheets 3 & 4 for composite pad installation instructions.
9. Mount all cables in the lower two hole positions so that fault indicators may be installed.
10. Install Faulted Circuit Indicator on the lug barrel.
11. Place spare fuse refills in fuse compartment door fuse holders.
12. In Missouri residential developments, the contractor will install the box pad and bends.
13. Stock items 54 07 433 and 54 07 435 are for maintenance only.W
14. For duct banks terminating in padmounted switchgear, retain approximately 5 ft. of 4/0 copper bond wire and connect it to a ground rod using a 2 bolt clamp (17-54-132).

ONE LINE DIAGRAMS OF AVAILABLE
UNITS WITH COMPARTMENT LOCATION

COMPARTMENT NUMBER
DESIGNATION



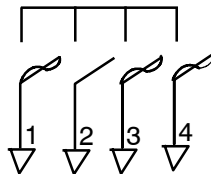
TYPE 6
53 11 04 01
53 11 04 09**



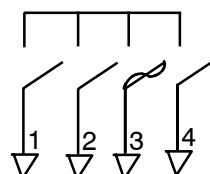
TYPE 9
53 11 04 02
53 11 04 08 (PMS)*
53 11 04 10**



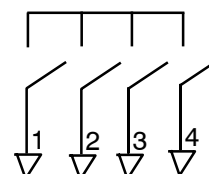
TYPE 4
53 11 04 07



TYPE 12
53 11 04 04
53 11 04 11**



TYPE 11
53 11 04 05
53 11 04 12**



TYPE 10
53 11 04 06

*200A Switching and Fusing Only.
** Peoria Only

LIMITED USE STANDARD

SMU -20 Fusing

		Dist Std. / Stk No.	Material Description	53 11 04 **	01	02	04	05	06	07	08
13	A	54 07 212	Switchgear - 2 Sw, 3 Fuses		1						
		54 07 213	Switchgear - 2 Sw, 6 Fuses			1					
		54 07 216	Switchgear - 1 Sw, 9 Fuses				1				
		54 07 217	Switchgear - 3 Sw, 3 Fuses					1			
		54 07 218	Switchgear - 4 Sw						1		
		54 07 433	Switchgear - 3 Fuses							1	
		54 07 435	Switchgear - 2 Sw, 6 Fuses (All 200 Amp)								1
8	B	12 06 109	Pad - Switchgear, Composite		1	1	1	1	1		
@	C	42 34 61 **	Termination - 750 Al.								
@	D	42 34 59 02	Termination - #2 Al.								
@	E	42 34 59 04	Termination - 4/0 Al.								
7	F	21 56 078	Bolt - Mach., S.S., Hex, 1/2" x 2"		22	28	28	28	28	10	
		12 56 052	Washers - Belleville Spring, 1/2", S.S.		18	24	24	24	24	6	
		12 56 053	Washers - Flat, 1/2", S.S.		36	48	48	48	48	12	
	I	17 54 132	Connector - Wire, 8-350 kcmil Cu.		9	10	7	13	16	3	
	J	23 63 069	Rod - Ground, 5/8" x 8'		3	4	4	4	4	2	
	K	17 52 032	Clamp - Ground Rod, 5/8" For #8 - 1/0		3	4	4	4	4	2	
	L	18 52 025	Wire - Cu. #2, S.D. (Ft.)		27	36	36	36	36	9	
@	N	16 51 079	Tag - Square, Red "X"		3	3	-	-	-	-	
@	P	16 51 080	Tag - Triangle, Blue, "Y"		3	3	3	-	-	-	
	Q	17 54 373	Connector-Wire, 2 Cu, Split Bolt		3	6	9	3	-	3	
	R	21 75 105	Washer - Rnd, 1/2", S.S.		4	4	4	4	4	4	
@	S		Refill - Fuse 14.4 kV		6	12	18	6	-	6	
10 @	V	60 55 001	Indicator - Faulted Circuit, 1 PH, Auto Reset								

LIMITED USE STANDARD

SM -4 Fusing (Peoria Only)

		Dist Stnd. / Stk No.	Material Description	53 11 04 **	09	10	11	12	06
	A	54 07 566	Switchgear - 2 Sw, 3 Fuses		1				
		54 07 563	Switchgear - 2 Sw, 6 Fuses			1			
		54 07 565	Switchgear - 1 Sw, 9 Fuses				1		
		54 07 564	Switchgear - 3 Sw, 3 Fuses					1	
		54 07 218	Switchgear - 4 Sw						1
8	B	12 06 109	Pad - Switchgear, Composite		1	1	1	1	1
@	C	42 34 61 **	Termination - 750 Al.						
@	D	42 34 59 02	Termination - #2 Al.						
@	E	42 34 59 04	Termination - 4/0 Al.						
	F	21 56 078	Bolt - Mach., S.S, Hex, 1/2" x 2"		22	28	28	28	28
7	G	12 56 052	Washers - Bellville Spring, 1/2", S.S.		18	24	24	24	24
		12 56 053	Washers - Flat, 1/2", S.S.		36	48	48	48	48
	I	17 54 132	Connector - Wire, 8*-350 Kcmil Cu.		9	10	7	13	16
	J	23 63 069	Rod - Ground, 5/8" x 8"		3	4	4	4	4
	K	17 52 032	Clamp - Ground Rod, 5/8" for #8 - 1/0		3	4	4	4	4
	L	18 52 025	Wire - Cu. #2, S.D. (Ft.)		27	36	36	36	36
@	N	16 51 079	Tag - Triangle, Red, "X"		3	3	-	-	-
@	P	16 51 080	Tag - Triangle, Blue, "Y"		3	3	3	-	-
	Q	17 54 373	Connector - Wire, 2 Cu, Split Bolt		3	6	9	3	-
	R	21 75 105	Washer - Rnd, 1/2", S.S.		4	4	4	4	4
@	S		Refill - Fuse 14.4kV		6	12	18	6	-
10@	V	60 55 001	Indicator - Faulted Circuit, 1 PH, Auto Reset						

LIMITED USE STANDARD

INSTRUCTIONS FOR EXCAVATION AND PLACEMENT OF SWITCHGEAR BOXPAD STOCK NO. 12 06 109

Placing The Bends

Place the bends as described in Figure 1. Note that a 36 inch radius bend on the lateral side at a 36 inch depth will almost touch the side of the box when it is placed at depth. An increase of final burial depth or angling of the conduit may be necessary to clear the box flange.

Excavation And Final Depth

An initial depth of 33 inches shall be excavated removing or tamping all loose soil. The length and width of the hole should be 85" by 79". This allows 5" of side clearance. The longer dimension is the door side of the gear.

Crushed stone screenings shall be placed and tamped to a final level depth of 30 inches. The area bearing the pad-box shall be leveled with a carpenter's level. The final depth of 30 inches will leave the required 6 inches of box exposed at final grade.

Place The Box

Place the box with the longer side where the doors will be, as described on the Engineering Layout.

Backfilling

Stabilize the box before backfilling the outside of the box to prevent shifting. A 3" base must be prepared and thoroughly tamped. Level the box pad and place 1 - 2" of soil on the flange to keep the box pad in place.

Stabilizing

To further stabilize the box and conduit bends, place 12 inches of screenings inside the box and tamp in place.

Bend - Final Preparation

The conduit bend should be cut off below the box's switchgear mounting flange. The rule is as follows: 5 inch diameter bend shall be cut a minimum of 16 inches below the flange. A 4 inch conduit cut a minimum of 12 inches below.

NOTE: This installation will not withstand pulling long cable lengths through the bends at the switchgear. Install restrained bends per Dist. Standard 31 47 01 **. Recommended for pulling 750 Al or Cu cables more than 250 ft. See composite pad drawing.

LIMITED USE STANDARD

