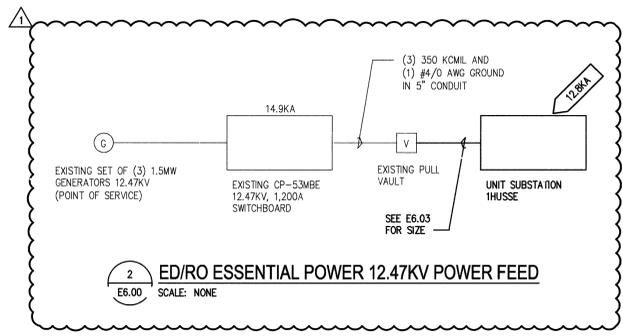


TO UNIT SUBSTATIONS IHUSSA AND IHUSSB, REFER TO SHEET E6-01 FOR CONTINUATION.

1 ED/RO NORMAL POWER 12.47 KV AND K-WING NORMAL POWER REFEED
E6.00
SCALE: NONE

- FLAG NOTES**
- PROVIDE NEW SWITCH TO EXISTING SWITCHGEAR.
 - REFER TO SHEET E6.01 FOR FEEDER REQUIREMENTS.



2 ED/RO ESSENTIAL POWER 12.47KV POWER FEED
E6.00
SCALE: NONE

FEEDER NO.	COPPER CONDUCTORS		AMPCITY NOTE 2
	CONDUIT	WIRE	
A4	1 1/4"	4 - #4, 1 #B G.	85
A3	1"	3 - #4, 1 #B G.	85
B4	1 1/4"	4 - #2, 1 #B G.	115
B3	1 1/4"	3 - #2, 1 #B G.	115
C5	2"	3 - #1, 0 N, 1 #B G.	120
C4	1 1/2"	4 - #1, 1 #B G.	130
C3	1 1/2"	3 - #1, 1 #B G.	130
D5	2"	5 - #1, 0, 1 #B G.	136
D4	1 1/2"	4 - #1, 0, 1 #B G.	150
D3	1 1/2"	3 - #1, 0, 1 #B G.	150
E5	2"	5 - #2, 0, 1 #B G.	156
E4	2"	4 - #2, 0, 1 #B G.	175
E3	1 1/2"	3 - #2, 0, 1 #B G.	175
F5	2 1/2"	5 - #3, 0, 1 #B G.	180
F4	2"	4 - #3, 0, 1 #B G.	200
F3	2"	3 - #3, 0, 1 #B G.	200
G5	2 1/2"	5 - #4, 0, 1 #B G.	208
G4	2 1/2"	4 - #4, 0, 1 #B G.	230
G3	2"	3 - #4, 0, 1 #B G.	230
H5	3"	5 - 250kcmil, 1 #4 G.	232
H4	2 1/2"	4 - 250kcmil, 1 #4 G.	255
H3	2 1/2"	3 - 250kcmil, 1 #4 G.	255
J5	3"	5 - 300kcmil, 1 #4 G.	256
J4	3"	4 - 300kcmil, 1 #4 G.	285
J3	3"	3 - 300kcmil, 1 #4 G.	285
K5	3"	5 - 350kcmil, 1 #4 G.	280
K4	3"	4 - 350kcmil, 1 #4 G.	310
K3	3"	3 - 350kcmil, 1 #4 G.	310
L5	3 1/2"	5 - 400kcmil, 1 #2 G.	304
L4	3"	4 - 400kcmil, 1 #2 G.	335
L3	3"	3 - 400kcmil, 1 #2 G.	335
M5	3 1/2"	5 - 500kcmil, 1 #2 G.	344
M4	3 1/2"	4 - 500kcmil, 1 #2 G.	380
M3	3"	3 - 500kcmil, 1 #2 G.	380
N5	4"	5 - 600kcmil, 1 #2 G.	380
N4	3 1/2"	4 - 600kcmil, 1 #2 G.	420
N3	3 1/2"	3 - 600kcmil, 1 #2 G.	420
2H5	(2) 3"	5 - 250kcmil, 1 #2 G. EA.	464
2H4	(2) 2-1/2"	4 - 250kcmil, 1 #2 G. EA.	510
2H3	(2) 2-1/2"	3 - 250kcmil, 1 #2 G. EA.	510
2J5	(2) 3"	5 - 300kcmil, 1 #2 G. EA.	512
2K5	(2) 3"	5 - 350kcmil, 1 #1 G. EA.	560
2K4	(2) 3"	4 - 350kcmil, 1 #1 G. EA.	620
2K3	(2) 2-1/2"	3 - 350kcmil, 1 #1 G. EA.	620
2M4	(2) 3-1/2"	4 - 500kcmil, 1 #1/0 G. EA.	760
2M3	(2) 3"	3 - 500kcmil, 1 #1/0 G. EA.	760
2N4	(2) 3-1/2"	4 - 600kcmil, 1 #1/0 G. EA.	840
2N3	(2) 3-1/2"	3 - 600kcmil, 1 #1/0 G. EA.	840
3L4	(3) 3"	4 - 400kcmil, 1 #2/0 G. EA.	1005
3L3	(3) 3"	3 - 400kcmil, 1 #2/0 G. EA.	1005
4H4	(4) 2-1/2"	4 - 250kcmil, 1 #2/0 G. EA.	1020
4H3	(4) 2-1/2"	3 - 250kcmil, 1 #2/0 G. EA.	1020
4K4	(4) 3"	4 - 350kcmil, 1 #3/0 G. EA.	1240
4K3	(4) 3"	3 - 350kcmil, 1 #3/0 G. EA.	1240
4N4	(4) 3-1/2"	4 - 600kcmil, 1 #4/0 G. EA.	1680
4N3	(4) 3-1/2"	3 - 600kcmil, 1 #4/0 G. EA.	1680
5N4	(5) 3-1/2"	4 - 600kcmil, 1 #250 G. EA.	2100
5N3	(5) 3-1/2"	3 - 600kcmil, 1 #250 G. EA.	2100
6N4	(6) 4"	4 - 600kcmil, 1 #350 G. EA.	2520
6N3	(6) 3-1/2"	3 - 600kcmil, 1 #350 G. EA.	2520

- SCHEDULE NOTES:**
- CONDUIT SIZING BASED ON RIGID GALVANIZED STEEL OR PVC SCH. 40 CONDUIT AND WIRE TYPE THHN/THWN-2 OR XHHW WIRE. TAKING INTO ACCOUNT BOTH CONDUIT FILL AND JAMB RATIO. CONFIRM CONDUIT FILL AND JAMB RATIOS FOR FEEDER CONFIGURATIONS OTHER THAN THOSE SHOWN.
 - AMPCITIES LISTED ARE BASED ON THE FOLLOWING TAKEN FROM TABLE 310-16.
 - A. 75° RATING FOR 3W AND 4W FEEDERS.
 - B. 90° RATING FOR 5W FEEDERS DE-RATED TO 80% WHERE PREDOMINANTLY HARMONIC CURRENTS ARE PRESENT. NEUTRALS ≥ #1/0 ARE PARALLELED ON 5W FEEDERS.
 - INCREASE RACEWAY SIZE FOR OTHER TYPES OF RACEWAYS AND DIFFICULT OR LONG PULLS.
 - GROUND WIRE SIZE INCREASED FOR PARALLEL CONDUCTOR RUNS PER NEC TABLE 250-122.
 - FOR THE TRANSFORMER SECONDARY FEEDER SCHEDULE, THE GROUND WIRE LISTED IN THE SECONDARY CIRCUIT IS SIZED AS THE MAIN BONDING JUMPER (PER NEC SECTION 250-28(d) AND NEC TABLE 250-66).

TRANSFORMER SECONDARY FEEDER SCHEDULE
480 TO 208Y/120V, THREE PHASE TRANSFORMERS

SECONDARY NO.	KVA RATING	FLA	COPPER CONDUCTORS		GROUNDING ELECTRODE CONDUCTOR	CONDUCTOR AMPACITY
			CONDUIT	WIRE		
T3	3	8	1/2"	4 - #12, 1 #B G.	8	20
T6	6	17	3/4"	4 - #10, 1 #B G.	8	30
T9	9	25	3/4"	4 - #8, 1 #B G.	8	50
T15	15	42	1"	4 - #6, 1 #B G.	8	65
T30	30	83	1 1/2"	4 - #2, 1 #B G.	8	115
T45	45	125	2"	4 - #1, 0, 1 #B G.	6	150
T75	75	208	2 1/2"	4 - #1, 0, 1 #2 G.	2	230
T112	112.5	312	4"	4 - 600kcmil, 1 #1/0 G.	1/0	420
T150	150	416	(2) 2 1/2"	4 - 250kcmil, 1 #1/0 G. EA.	1/0	510
T225	225	625	(2) 4"	4 - 600kcmil, 1 #3/0 G. EA.	3/0	840
T300	300	833	(3) 3"	4 - 400kcmil, 1 #3/0 G. EA.	3/0	1005
T500	500	1388	(5) 3 1/2"	4 - 500kcmil, 1 #350kcmil G. EA.	3/0	1900

480 TO 208Y/120V, THREE PHASE TRANSFORMERS (K-Rated)

SECONDARY NO.	KVA RATING	FLA	COPPER CONDUCTORS		GROUNDING ELECTRODE CONDUCTOR	CONDUCTOR AMPACITY
			CONDUIT	WIRE		
TK3	3	8	1/2"	3 - #12, 1 #B N, 1 #B G.	8	20
TK6	6	17	3/4"	3 - #10, 1 #B N, 1 #B G.	8	30
TK9	9	25	1"	3 - #8, 1 #B N, 1 #B G.	8	44
TK15	15	42	1 1/4"	3 - #6, 1 #B N, 1 #B G.	8	60
TK30	30	83	1 1/2"	3 - #2, 1 #4/0 N, 1 #B G.	6	104
TK45	45	125	2"	5 - #2, 0, 1 #4 G.	4	156
TK75	75	208	3"	5 - 250kcmil, 1 #2 G.	2	232
TK112	112.5	312	(2) 2 1/2"	5 - #4, 0, 1 #1/0 G.	1/0	416
TK150	150	416	(2) 3"	5 - 300kcmil, 1 #1/0 G. EA.	1/0	512
TK225	225	625	(3) 3 1/2"	5 - 350kcmil, 1 #3/0 G. EA.	2/0	840
TK300	300	833	(3) 4"	5 - 500kcmil, 1 #4/0 G. EA.	3/0	1032
TK500	500	1388	(5) 4"	5 - 500kcmil, 1 #350kcmil G. EA.	3/0	1720



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