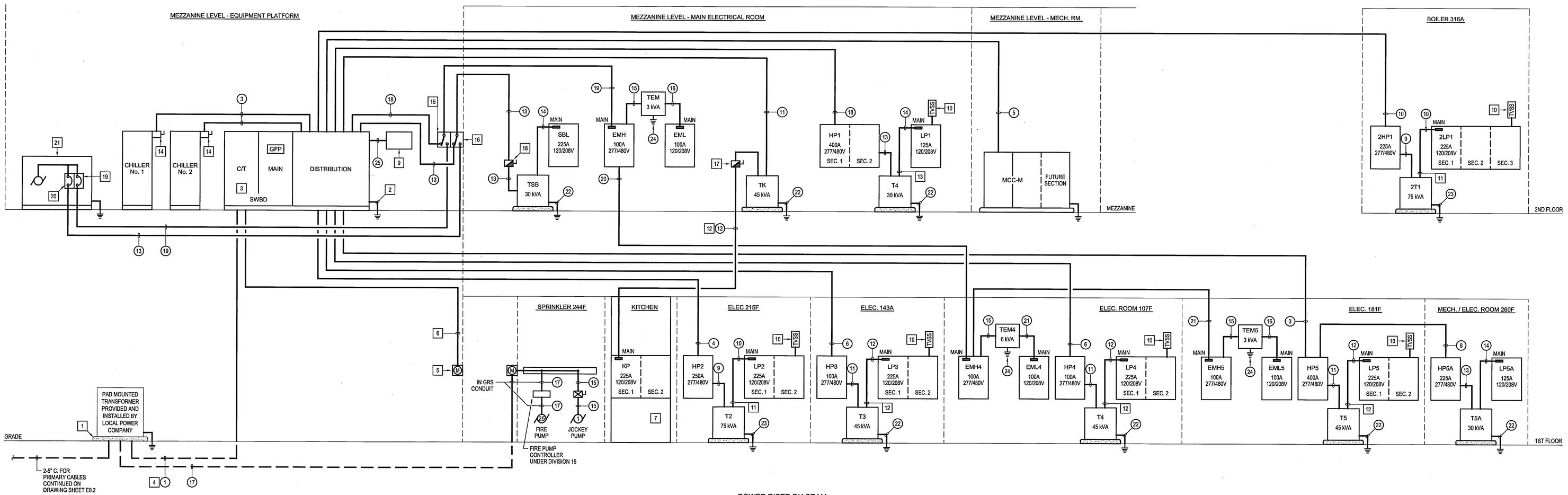
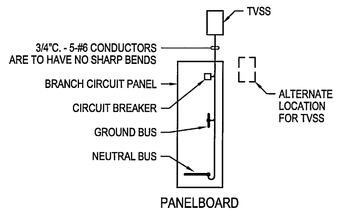
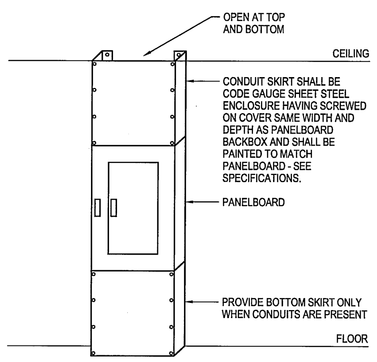


POWER RISER DIAGRAM
SCALE: NONE



TVSS DETAIL
SCALE: NONE

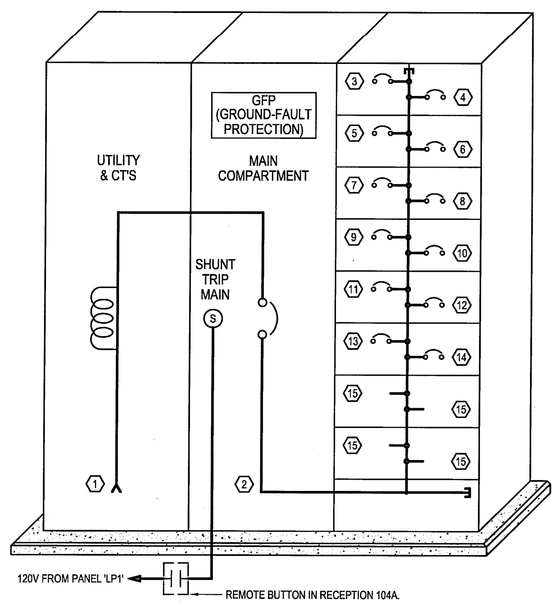


7 SURFACE MOUNTED PANELBOARD CONDUIT SKIRT ENCLOSED DETAIL
SCALE: NONE
NOTE: PANEL 'KP' ONLY.

FEEDER SCHEDULE	
ITEM NO.	WIRE & CONDUIT SIZE
1	7 SETS OF 4-500 MCM; 1-#3/0 G. IN 4" C. EACH PLUS TWO (2) 4" C. SPARE IN CONCRETE ENCASED DUCT BANK.
2	2 SETS OF 4-500 MCM; 1-#2 G. IN 4" C. EACH
3	2 SETS OF 4-250 MCM; 1-#1 G. IN 3 1/2" C. EACH
4	4-350 MCM + 1-#2 G. IN 3 1/2" C.
5	3-#4/0 + 1-#4 G. IN 2 1/2" C.
6	4-#1 + 1-#6 G. IN 2" C.
7	3-#4 + 1-#6 G. IN 1 1/2" C.
8	4-#1/0 + 1-#6 G. IN 2" C.
9	3-#2 + 1-#6 G. IN 1 1/4" C.
10	4-#4/0 + 1-#4 G. IN 2 1/2" C.
11	3-#6 + 1-#8 G. IN 1" C.
12	4-#1/0 + 1-#8 G. IN 2" C.
13	3-#8 + 1-#8 G. IN 1" C.
14	4-#2 + 1-#8 G. IN 1 1/2" C.
15	3-#12 + 1-#12 G. IN 3/4" C.
16	4-#12 + 1-#12 G. IN 3/4" C.
17	3-#6 + 1-#8 G. IN 1" PVC. RUN OUTSIDE THE BUILDING.
18	2 SETS OF 4-#3/0; 1-#3 G. IN 2 1/2" C. EACH
19	4-#4 + 1-#8 G. IN 1 1/2" C.
20	4-#6 + 1-#8 G. IN 1" C.
21	4-#10 + 1-#12 G. IN 3/4" C.
22	#8 G. TO BUILDING STEEL
23	#6 G. TO BUILDING STEEL
24	#12 G. TO BUILDING STEEL
25	5-#2 IN 1 1/2" C.

OUTDOOR DISTRIBUTION SWITCHBOARD SCHEDULE — WP ENCLOSURE
MAIN SWITCHBOARD 277/480V, 3Ø, 4W, 2500A 65 kAIC RATING

ITEM NO.	ITEM SERVED	PROTECTION: POLES	PROTECTION: BREAKER FRAME	PROTECTION: BREAKER TRIP	NAMEPLATE DESIGNATION: MAIN SERVICE SWITCHBOARD	COMMENT
	SECTION 1 (2500A BUS)					
1	C/T COMPARTMENT - INTEGRAL PART OF SWITCHBOARD					C/T AND METERING
	SECTION 2 (2500A BUS)					
2	MAIN	3	3000 A	2500 A		SHUNT TRIP MAIN CIRCUIT BREAKER
	SECTION 3 (2500A BUS)					
3	PANEL "HP 1"	3	400 A	400 A	PANEL "HP 1"	
4	PANEL "2HP 1"	3	200 A	200 A	PANEL "2HP 1"	
5	TRANSFORMER "TK"	3	100 A	70 A	TRANSFORMER "TK"	
6	PANEL "HP 2"	3	250 A	250 A	PANEL "HP 2"	
7	PANEL "HP 3"	3	100 A	100 A	PANEL "HP 3"	
8	PANEL "HP 4"	3	100 A	100 A	PANEL "HP 4"	
9	PANEL "HP 5"	3	400 A	350 A	PANEL "HP 5"	
10	MCC-M	3	200 A	200 A	MCC-M	
11	CHILLER No.1	3	600 A	500 A	CHILLER No.1	
12	CHILLER No.2	3	600 A	500 A	CHILLER No.2	
13	PANEL "EMH"	3	100 A	70 A	PANEL "EMH"	LIFE SAFETY EMERGENCY
14	PANEL "SBL"	3	60 A	45 A	PANEL "SBL"	STAND-BY EMERGENCY
15	SPACE	3				



SWITCHBOARD ELEVATION
SCALE: NONE

NOTE: 1. PROVIDE CIRCUIT BREAKER FOR CONNECTIONS TO TVSS. COORDINATE RATING OF THE BREAKER WITH THE MANUFACTURER.

GENERAL NOTES

1. PROVIDE A SIGN PLACED AT THE SERVICE ENTRANCE EQUIPMENT INDICATING THE TYPE AND LOCATION OF THE ON-SITE POWER SOURCE PER NEC, ARTICLE 700-8(a).
2. PROVIDE A SIGN AT THE LOCATION WHERE THE GENERATOR GROUNDED CIRCUIT CONDUCTOR IS CONNECTED TO A GROUNDING ELECTRODE CONDUCTOR. INDICATE ALL EMERGENCY AND NORMAL SOURCES CONNECTED AT THIS LOCATION - IAW NEC ARTICLE 700-8(b) AND 701-8(a) AND (b).
3. PROVIDE WARNING SIGNS STATING "ELECTRICAL PANELS - AUTHORIZED PERSONNEL ONLY" AT ALL ELECTRICAL ROOMS PER NEC, ARTICLE 110-27(c).
4. PROVIDE PLACKARD ON ALL SECONDARY PANELS THAT ARE RECEIVING GENERATOR POWER.

KEYED RISER NOTES

1. REINFORCED CONCRETE PAD BY LOCAL POWER COMPANY.
2. SEE GROUNDING DETAILS DWG. #E0.2.
3. C.T. CABINET SHALL BE PROVIDED AND INSTALLED BY E.C. E.C. SHALL CONFIRM SPECIFICATIONS OF CABINET WITH LOCAL POWER COMPANY.
4. SECONDARY ELECTRICAL SERVICE. SEE SECONDARY DUCTBANK DETAIL ON DRAWING #E0.2.
5. POWER COMPANY METER AND SOCKET BASE. SHALL BE SUPPLIED BY LOCAL POWER COMPANY, INSTALLED BY E.C. INSTALL UNDER PLATFORM.
6. 1 1/4" EMPTY CONDUIT WITH PULL WIRE FROM CT CABINET TO METERBASE. MAXIMUM DISTANCE FROM METER AND CT CABINET SHALL NOT EXCEED 50'-0".
7. PROVIDE AND INSTALL WIRING TROUGH FROM BOTTOM OF PANELBOARD TO FLOOR. TROUGH SHALL HAVE THE SAME FOOT PRINT DIMENSION AS PANELBOARD.
8. PROVIDE ACCESSIBLE WIRING TROUGH ABOVE AND BELOW EACH PANELBOARD. FEEDERS SHALL RUN THROUGH TROUGH TO CONDUITS. TROUGH SHALL BE USED AS A LOCATION FOR ATTACHMENT OF PORTABLE METERS FOR CHECK METERING.
9. TRANSIENT VOLTAGE SURGE SUPPRESSOR: SHALL CONFORM TO UL 1449 2ND ADDITION, SHALL HAVE OPERATIONAL STATUS VISUAL INDICATOR AND AUDIBLE ALARM. UL CLAMPING VOLTAGE SHALL NOT EXCEED 600V L-L FOR 120/208V SYSTEMS. SURGE SUPPRESSOR SHALL HAVE PEAK SURGE CURRENT RATING OF 240KA MINIMUM. THE SURGE SUPPRESSOR SHALL BE CONNECTED TO A DEDICATED BRANCH CIRCUIT BREAKER SURGE PROTECTOR WIRING SHALL BE AS INDICATED BY MANUFACTURER, AND KEPT IN LENGTH TO A MINIMUM. SURGE PROTECTOR SHALL HAVE REPLACEABLE SURGE SUPPRESSION MODULES. SURGE SUPPRESSOR SHALL BE BY CURRENT TECHNOLOGY, TYPE A. CATALOG No. SL2-200-277/480-3GY-0.
10. TVSS, TYPE B, CURRENT TECHNOLOGY #TG-60-120/208-3GY.
11. PROVIDE ADDITIONAL #6 INSULATED GROUNDING CONDUCTORS.
12. PROVIDE ADDITIONAL #8 INSULATED GROUNDING CONDUCTORS.
13. PROVIDE ADDITIONAL #8 INSULATED GROUNDING CONDUCTORS.
14. THE DISCONNECT SWITCH WILL BE FURNISHED WITH THE CHILLERS.
15. ATS #1 (LIFE SAFETY); 480V, 3P, 100A
16. ATS #2 (STAND-BY LOADS); 480V, 3P, 100A
17. FUSED DISCONNECT SWITCH; 240V, 3P, 200A w/ 150A FUSES.
18. FUSED DISCONNECT SWITCH; 600V, 3P, 60A w/ 45A FUSES.
19. 480V, 3P, 70A ENCLOSED CIRCUIT BREAKER
20. 480V, 3P, 45A ENCLOSED CIRCUIT BREAKER
21. 480/277V, 3PH, 4W 45KW, 0.8 P.F., NATURAL GAS EMERGENCY ENGINE / GENERATOR IN WEATHERPROOF ENCLOSURE.

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NO.	DATE	REVISION
	04/10/2009	BID/PERMIT SUBMISSION

DESIGN STAGE

ST. BERNARD PARISH SCHOOL BOARD
CHALMETTE ELEMENTARY SCHOOL
75 WEST CHALMETTE CIRCLE
CHALMETTE, LOUISIANA

DRAWING TITLE: RISER ELECTRICAL
PROJECT No: 2805 B
CHECK BY:
DRAWN BY:
DATE: 04/10/09
SHEET No: -

E4.1

OF -- SHEET

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