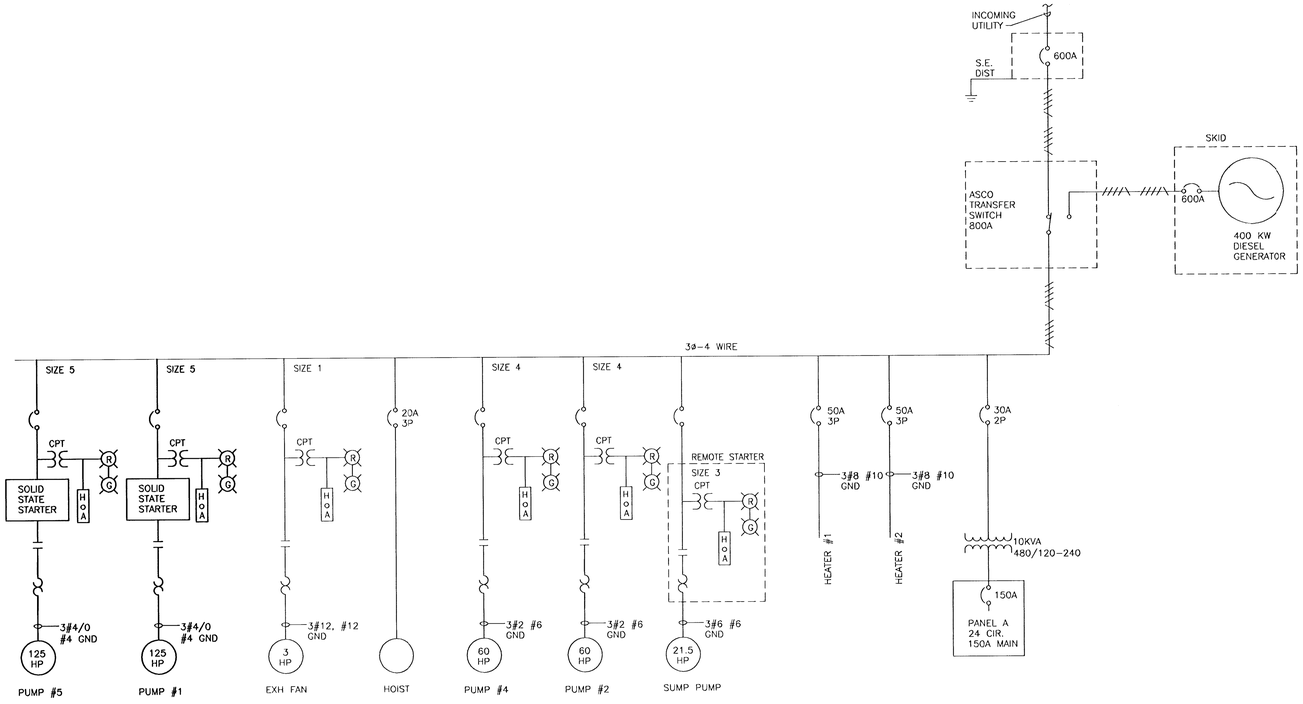
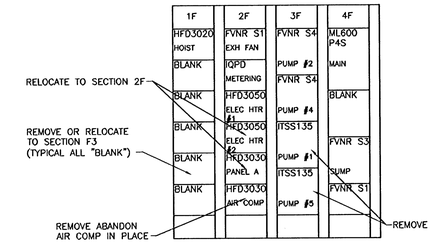


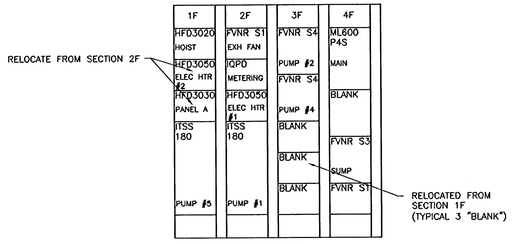
MOTOR CONTROL CENTER ONE-LINE DIAGRAM

SCALE: NONE



MCC FRONT ELEVATION (OLD LINE-UP)

SCALE: NONE



MCC FRONT ELEVATION (NEW LINE-UP)

SCALE: NONE

480VAC MOTOR CONTROL CENTER 3ø-4 WIRE-GND

PH 3 | WIRE 4 | HZ 60 | HORIZONTAL BUS = 800A COPPER-TIN PLATED | VERTICAL - 300A | TOTAL CONNECTED LOAD = | NORMAL OPERATION LOAD =

BUS BRACING = 65 KA RMS SYMMETRICAL SHORT CIRCUIT | INTERRUPTING CAPACITY = 65KA

MCC UNIT NO.	EQUIP. NO.	SERVICE	RATING	FULL LOAD AMPS	RPM	SERVICE FACTOR	STARTER TYPE	STARTER SIZE	SPACE REQ.	CIRCUIT BREAKER FRAME	CIRCUIT BREAKER TRIP PLUG	AUTO RESTART	EXTRA INTERLOCKS NO	EXTRA INTERLOCKS NC	SWITCH: STOP	SWITCH: HAND-OFF-ENABLE	SWITCH: FAST-SLOW-STOP	IND. LIGHTS: GREEN (STOPPED)	IND. LIGHTS: RED (RUN FWD FAST)	IND. LIGHTS: AMBER (VERY SLOW)	IND. LIGHTS: WHITE (LOCKED OUT)	PUSH-TO-TEST	CONT. PWR. (CPWR) W/ 2PRI & 2SEC FUSES	SCHEMATIC DIAGRAMS	NOTES
	PUMP #1	STORM WATER PUMP #1	125 HP	156	900	1.15	SOFT ST.	5	6X	250		-	2	2		X		X	X			X	X		SOLID STATE SOFT START 180A MIN RATED
	PUMP #5	STORM WATER PUMP #5	125 HP	156	900	1.15	SOFT ST.	5	6X	250		-	2	2		X		X	X			X	X		SOLID STATE SOFT START 180A MIN RATED

NOTES:

1. HMCP-MOTOR CIRCUIT PROTECTOR BREAKERS SHALL BE SUPPLIED AND SETTINGS OF TRIP PLUGS AND OVER LOAD RELAYS SHALL BE COORDINATED WITH THE EQUIPMENT AND THE ENGINEER FOR FINAL SETTINGS.
2. MOTOR CONTROL CIRCUITRY SHALL BE PROVIDED SUCH THAT "HAND-OFF-AUTO" PROVIDES COMPLETE LOCAL CONTROL ON HAND AND REMOTE CONTROL BY "AUTO".
3. CONTRACTOR SHALL REPLACE TWO EXISTING 100 HP "CUTLER-HAMMER" SOFT START MOTOR STARTERS WITH NEW 125 HP STARTERS & RELOCATE THEM WITHIN THE MCC STRUCTURE AS INDICATED.

MKEC
ENGINEERING CONSULTANTS
411 N. WEBB ROAD
WICHITA, KS. 67206
316-684-9600

CITY OF WICHITA, KANSAS
STORMWATER PUMP STATION NO. 1
REPLACE PUMP 1 & 5 MTRS & STARTERS
PROJECT NAME

ONE-LINE DIAGRAM
SHEET TITLE

SLA	RES	SLA
DESIGN BY:	DRAWN BY:	CHECKED BY:
SEPTEMBER, 2002	02141D2	E1 / 2
DATE	DRAWING NAME	SHEET / OF

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