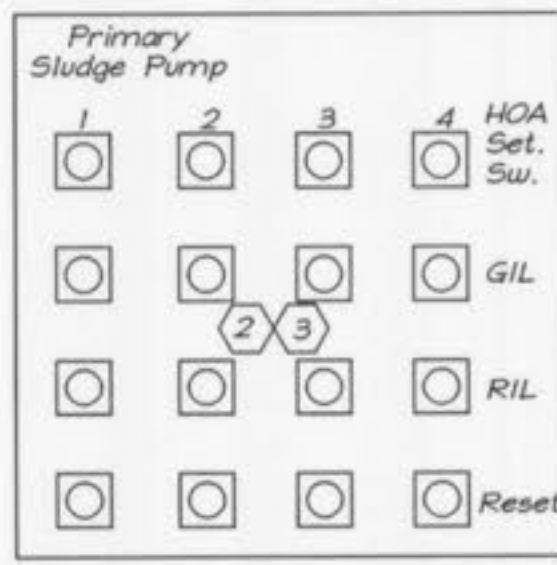


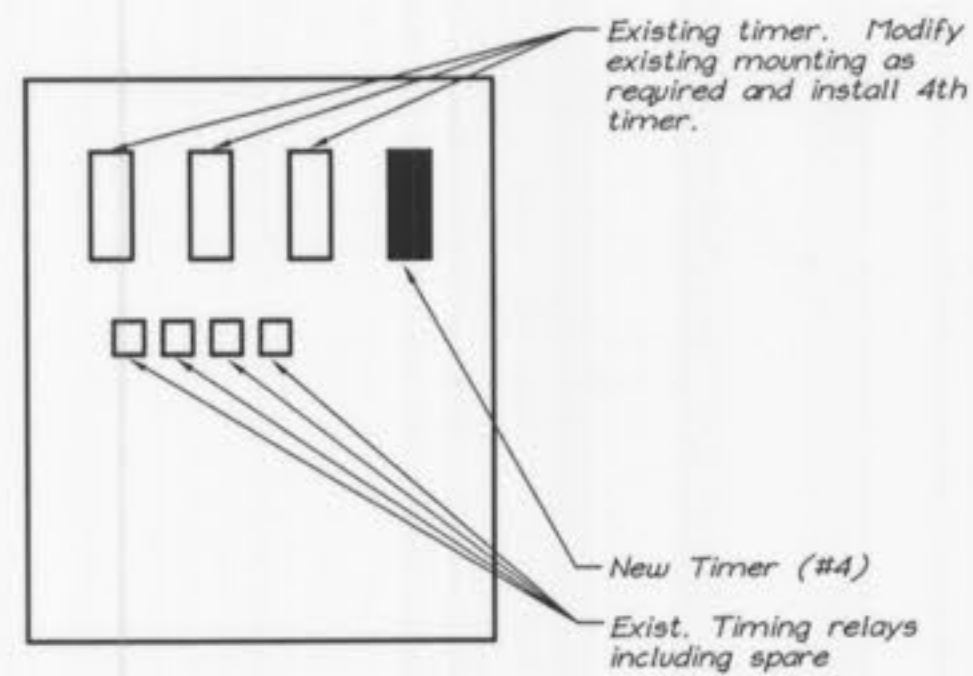
**PRIMARY SLUDGE PUMP CONTROL PANEL (PPCP) - EXISTING**

NO SCALE



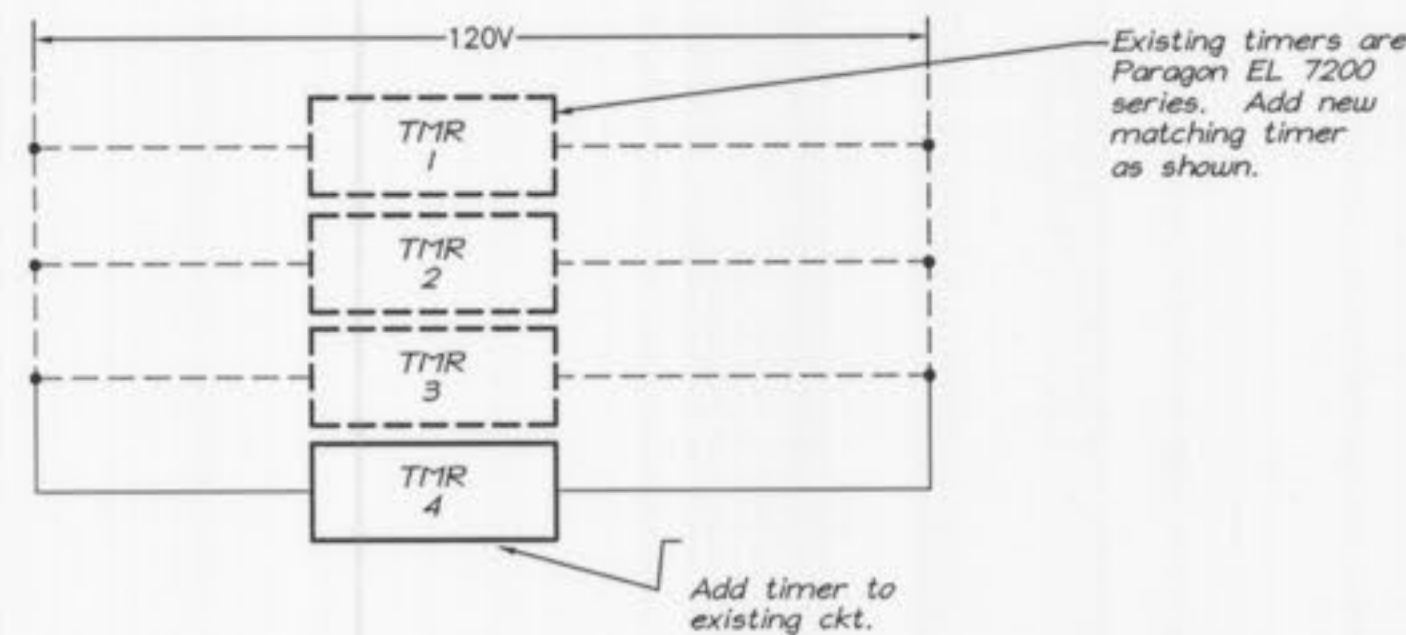
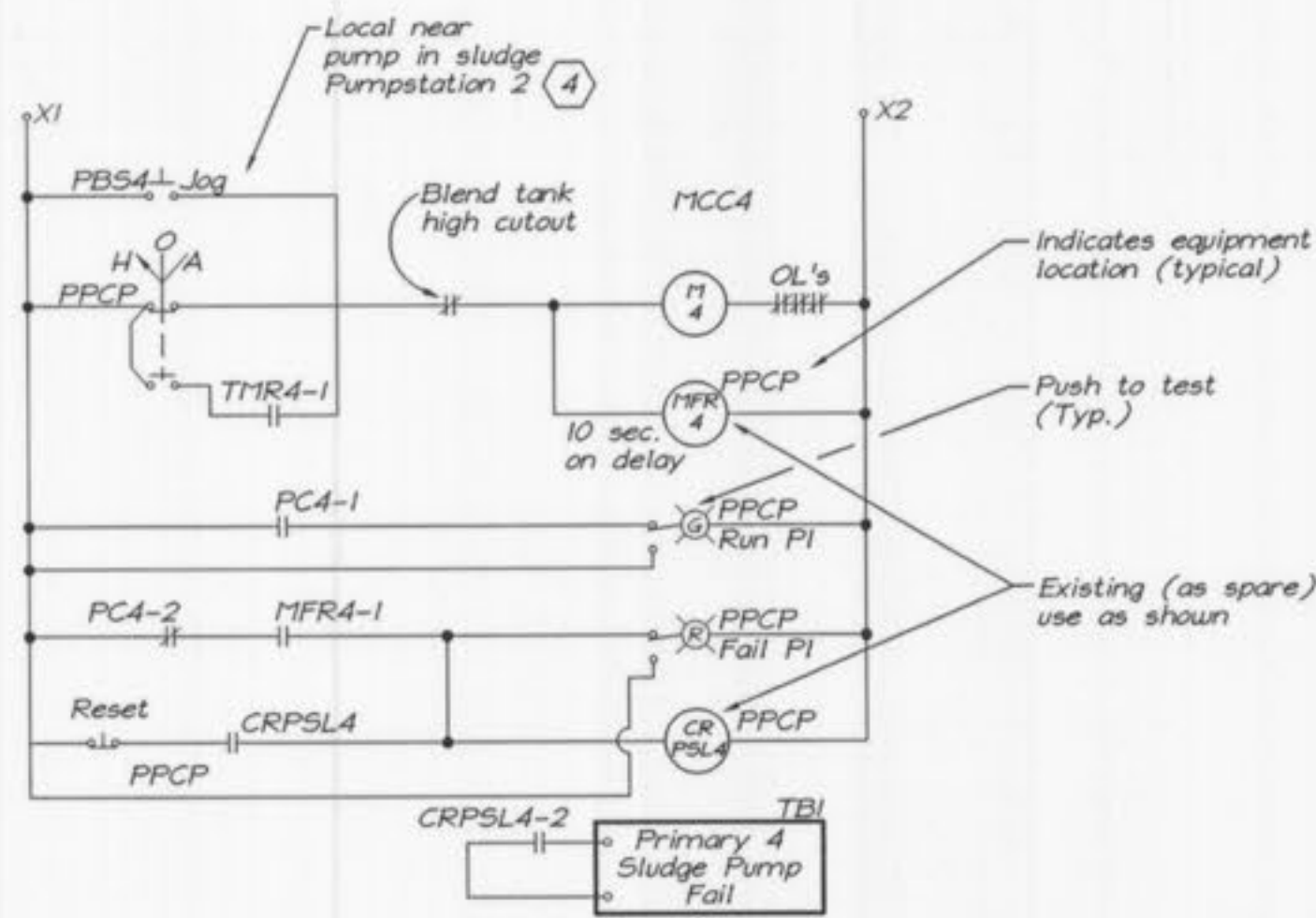
**PRIMARY SLUDGE PUMP CONTROL PANEL (PPCP) - REVISED**

NO SCALE



**PPCP INTERIOR - REVISED**

NO SCALE



**SLUDGE PUMP 4 - SCHEMATIC**

NO SCALE

Legend:

- PPCP Primary Sludge Pump Control Panel
- MCC4 Motor Control Center 4 (Bldg. 4 - Headworks)

Notes:

- 1 Controls for Sludge Pumps 1, 2, and 3 are existing. Furnish identical controls, wiring and equipment for new Sludge Pump 4. Continue equipment and wiring numbering system as established. Replace cover for existing Primary Sludge Control Panel. Remove indicating and control devices and reinstall in new cover.
- 2 New cover for existing Primary Sludge Control Panel. Punch cover for four (4) sets of indicators/controls. Furnish and install indicating and control devices for pump 4 and reinstall existing controls for pumps 1, 2, and 3.
- 3 Review control panel internal equipment and wiring and rearrange as required to accommodate controls for fourth pump. Install matching controls and wiring for added pump.
- 4 "JOG" pushbutton to be installed locally near new Sludge Pump 4 in new Primary Sludge Pump Station No. 2, F # 1. "JOG" pushbutton and wiring for relocated Sludge Pump 3 in same location.
- 5 Sludge Pump Station, ref. dwg. E15.01.

PANEL: LPS  
LOCATION: Headworks Building  
208/120V, 3 PHASE, 4 WIRE

KAIC: MAIN: 60A  
FED FROM: SURFACE  
MOUNTING: SURFACE  
BUS RATING: 100A

EQUIPMENT DESCRIPTION	LOAD VA	C/B	CCT	PHCCT	C/B	LOAD VA	EQUIPMENT DESCRIPTION
LTS GRIT RM.	900	20	1	A	2	20	LTS OUTSIDE
LTS SCREEN RM.	1600	20	3	B	4	20	SPARE
LTS METER & ELEC. RM.	1100	20	5	C	6	20	REC ELEC RM.
REC GRIT RM.	600	20	7	A	8	20	REC OUTSIDE
REC SUMP PUMP	1000	20	9	B	10	20	EF - H3
EF - H1	800	20	11	C	12	20	EF - H2
PRIM PUMP CONT PANEL PPCP	100	20	13	A	14	20	GRIT SYSTEM PANEL
PRI PS - SUMP PUMP	2100	20	15	B	16	20	SPARE
PRI PS - REC	200	20	17	C	18	20	SITE LIGHT AT WAS
PRI PS - LTS & EF-SI	1000	20	19	A	20	20	SITE LIGHT REC
EXISTING AT PRI #3	600	20	21	B	22	20	1920 SLUDGE PUMP STATION - REC
EXISTING AT PRI #3	1000	20	23	C	24	20	FLOAT SWITCH ALARM
EF	100	20	25	A	26	20	4-I/O PANEL
CLAR, CONTROL PANEL	200	20	27	B	28	20	4-I/O PANEL
CLAR, CONTROL PANEL	200	20	29	C	30	20	SPARE
SPARE		20	31	A	32	20	SPARE
SPARE		20	33	B	34	20	SPARE
SPARE		20	35	C	36	20	SPARE
SPARE		20	37	A	38	20	SPARE
SPARE		20	39	B	40	20	SPARE
SPARE		20	41	C	42	20	SPARE

TOTAL CONNECTED LOAD =      DIVERSITY = 80%      DIVERSIFIED LOAD =

GEORGE BUTLER ASSOCIATES, INC.  
Engineers • Architects  
Kansas • Missouri • Illinois

**GBA**



**WASTEWATER TREATMENT PLANT EXPANSION**  
**HEADWORKS BUILDING**  
**ELECTRICAL DETAILS**  
 CITY OF FALLON, MISSOURI

JOB NO.: 9234  
DATE: 10-08-2001

DESIGNED BY: SLC  
DRAWN BY: KRC  
CHECKED BY: SLC  
SHEET NUMBER

**E4.02**