

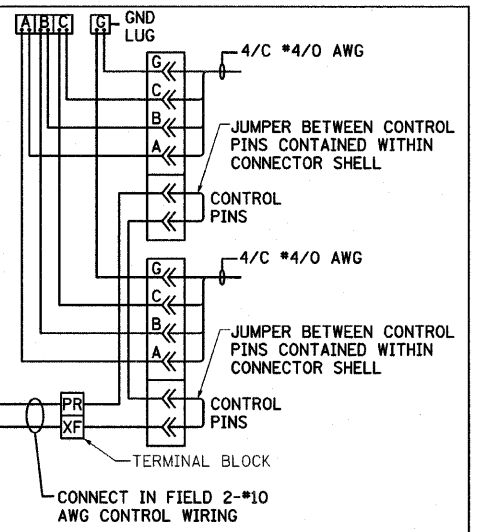
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	1999-161-1	COOK	75	49
STA. TO STA.		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.		D-91-411-99		

LEGEND:

- ◇ TERMINAL IN SCADA PANEL
- △ TERMINAL IN MOTOR STARTER
- TERMINAL IN CONTROL PANEL
- ∅ TERMINAL IN MAPE-I
- DEVICE LOCALLY MOUNTED
- ▲ DEVICE LOCATED ON MCC COMPARTMENT DOOR
- ◆ DEVICE IN SCADA PANEL
- DEVICE IN CONTROL PANEL

MOUNT PERMISSIVE RELAY IN MCC STARTER COMPARTMENT
 PERMISSIVE RELAY

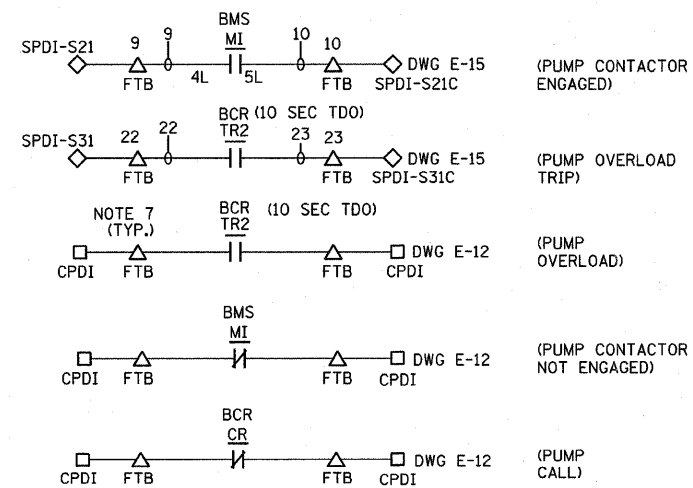
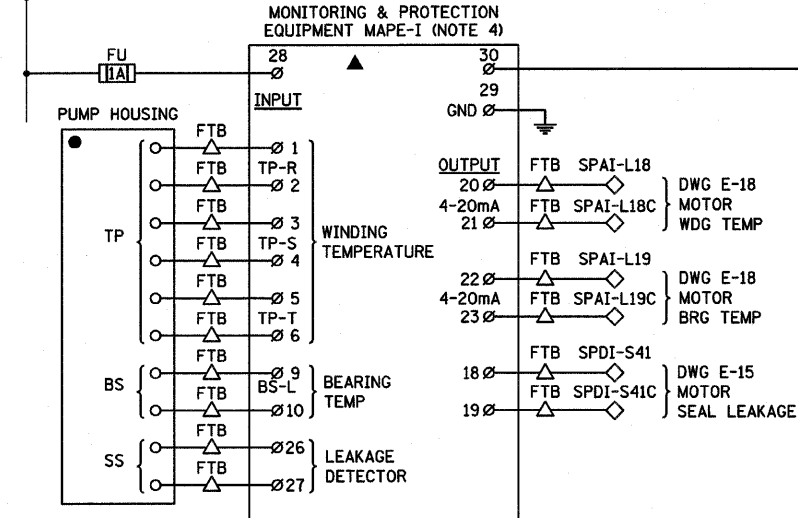
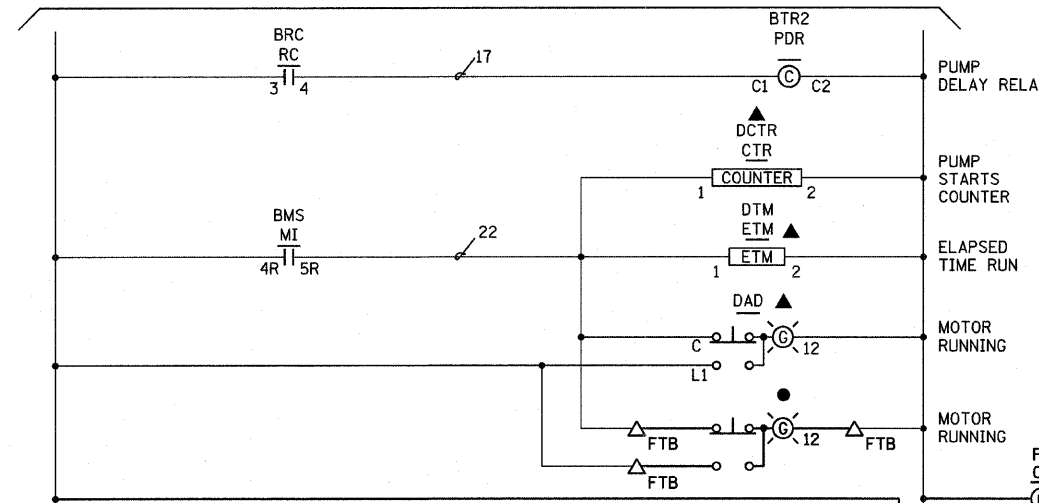
EXPLOSION PROOF JUNCTION BOX 16" X 16" X 8" FOR PUMP POWER CABLES



NOTES:

- ALL DEVICES TO BE INSTALLED AND CHANGES TO BE MADE SHOWN IN BOLD.
- ALL DEVICES MOUNTED IN MOTOR STARTER UNLESS OTHERWISE NOTED.
- THE EXISTING CONTROL FOR LOW FLOW PUMP (NORTH MCC SECTION, COMP. 4A) WILL BE USED FOR NEW MAIN PUMP 7. "FLOAT CALL" FOR MP-7 SHALL BE REWIRED ACCORDING TO UPGRADED SCHEMATIC FOR CONTROL PANEL.
- COORDINATE MONITORING & PROTECTION EQUIPMENT WITH PUMP MANUFACTURER.
- THE EXISTING OVERLOAD RELAYS SHALL BE REVISED AND IF NECESSARY REPLACED.
- THE EXISTING 250AMPS BREAKERS FOR PUMPS MP-4, MP-5, MP-6 & MP-7 IN COMPARTMENTS 1A, 2A, 3A, & 4A OF NORTH MCC SECTION SHALL BE REPLACED WITH 400AMPS BREAKERS.
- NEW TERMINAL SHALL BE ASSIGNED BY THE CONTRACTOR.

CONTINUED BELOW @ LEFT



REVISIONS	
NAME	DATE

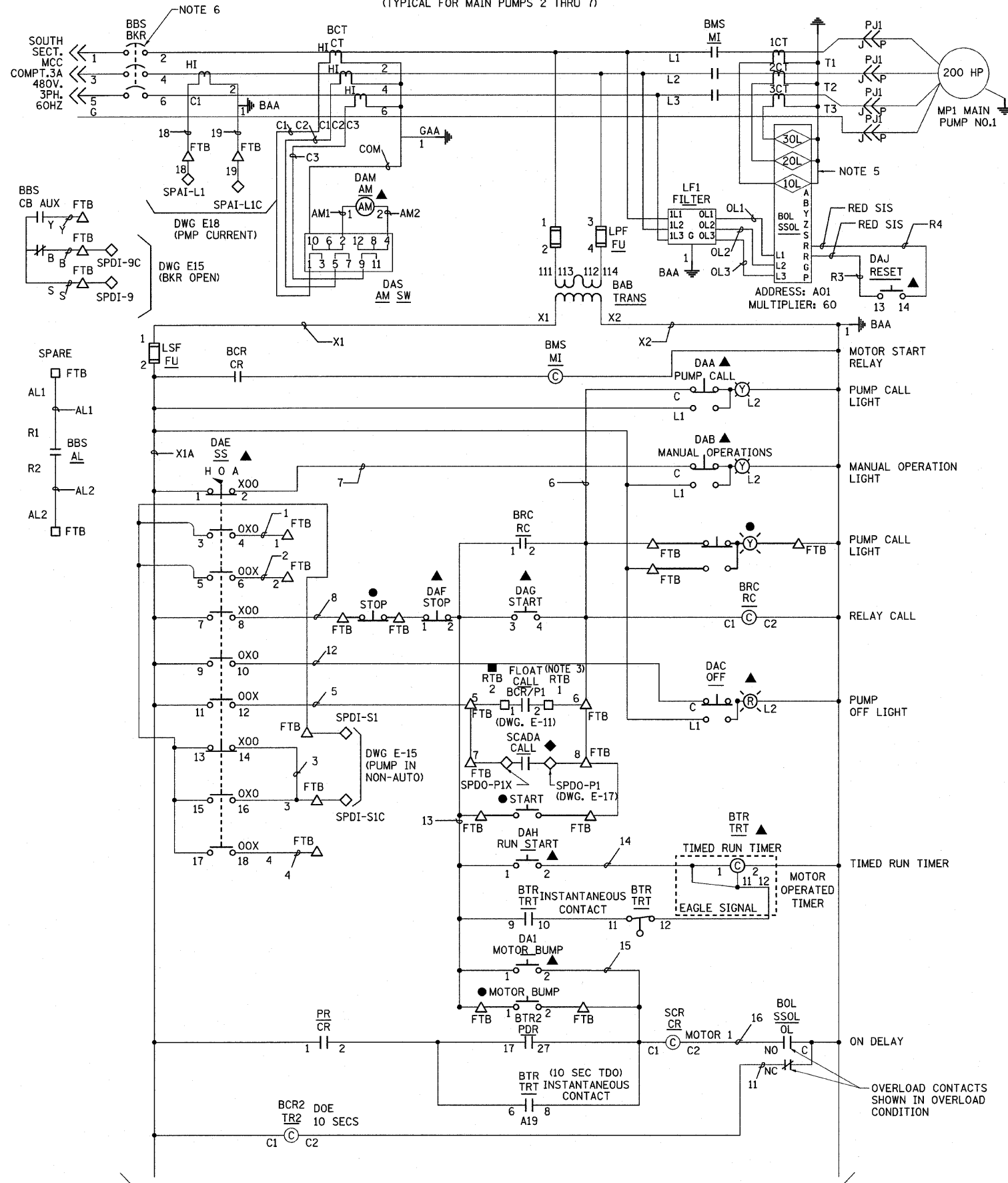
ILLINOIS DEPARTMENT OF TRANSPORTATION

MAIN PUMP MP-1 CONTROL SCHEMATIC

SCALE: VERT. NO SCALE
 HORIZ. DATE: 3/23/2010
 DRAWN BY: B.K.
 CHECKED BY: M.Z.



MAIN PUMP 1 (MP-1) CONTROL SCHEMATIC (TYPICAL FOR MAIN PUMPS 2 THRU 7)



CONTINUED ABOVE @ RIGHT

PLOT DATE = 3/22/2010
 FILE NAME = D:\B2008-04\11-E-07.dgn
 PLOT SCALE = 1:1
 USER NAME = MUSEP*