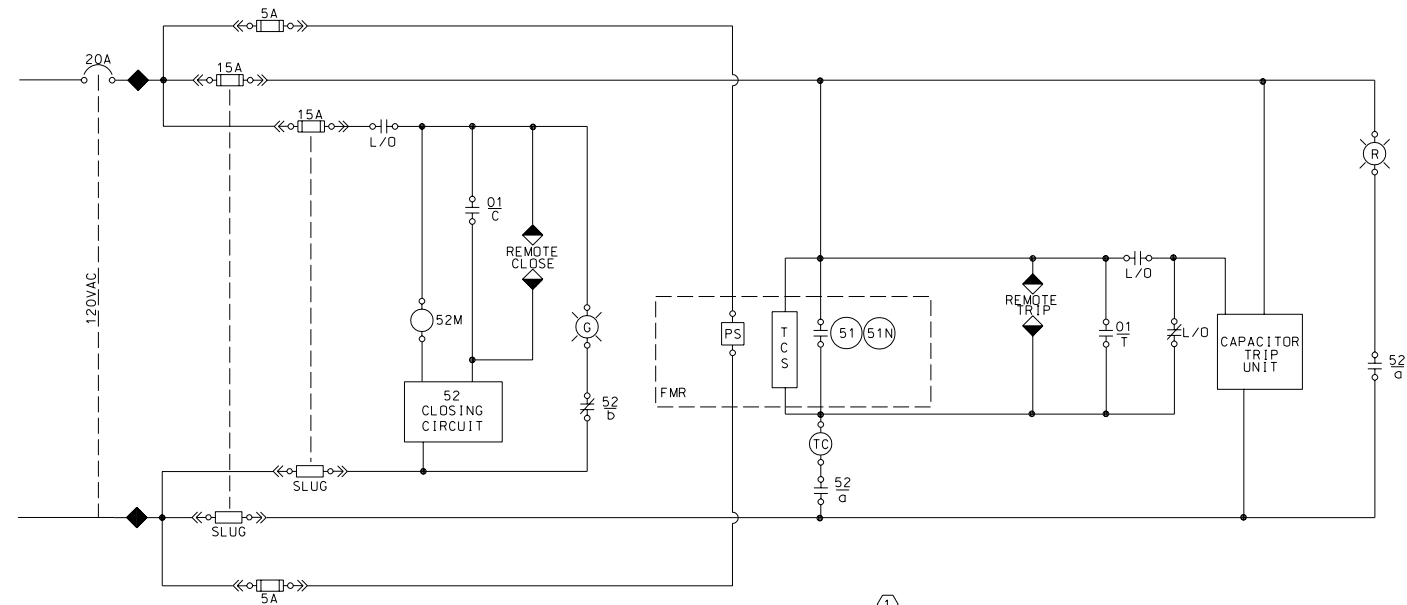


MAIN INCOMING CIRCUIT INTERRUPTER
ELEMENTARY ONE-LINE DIAGRAM
DARK SIDE INDICATES CONNECTION INTERNAL TO SWITCHGEAR



TIE CIRCUIT INTERRUPTER
ELEMENTARY ONE-LINE DIAGRAM
DARK SIDE INDICATES CONNECTION INTERNAL TO SWITCHGEAR

LEGEND

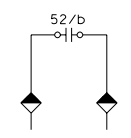
- 01 CONTROL SWITCH
- 43 AUTO RESTORATION CUTOUT
- 27/59 UNDER/OVER VOLTAGE
- 47 VOLTAGE UNBALANCE
- 51 TIME OVERCURRENT
- 52M SPRING CHARGING MOTOR
- 52 CLOSED WHEN INTERRUPTER CLOSED
- 52/a CLOSED WHEN INTERRUPTER OPEN
- 52/b
- FMR FEEDER MANAGEMENT RELAY
- TC INTERRUPTER TRIP COIL
- 52 CIRCUIT BREAKER OR CIRCUIT INTERRUPTER
- 27R UNDERVOLTAGE AUTOMATIC CIRCUIT RESTORATION
- L/O MECHANISM DOOR LOCKOUT
- PS FMR POWER SUPPLY
- TCS FMR TRIP COIL SUPERVISION

CONTACT	POSITION			
	11:00 TRIP	12:00 AFTER TRIP	12:00 AFTER CLOSE	1:00 CLOSE
T	×			
AC			×	×
C				×

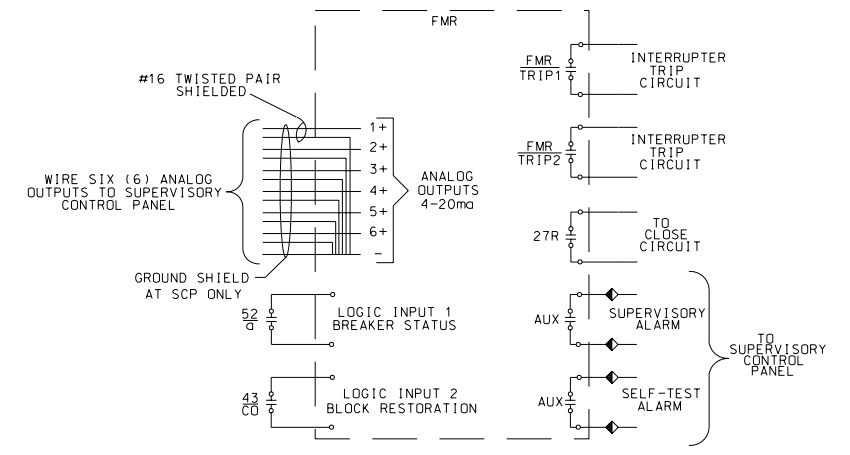
CONTROL SWITCH - 01

CONTACT	POSITION	
	BLOCK	AUTO
43/AUTO		×
43/CO	×	

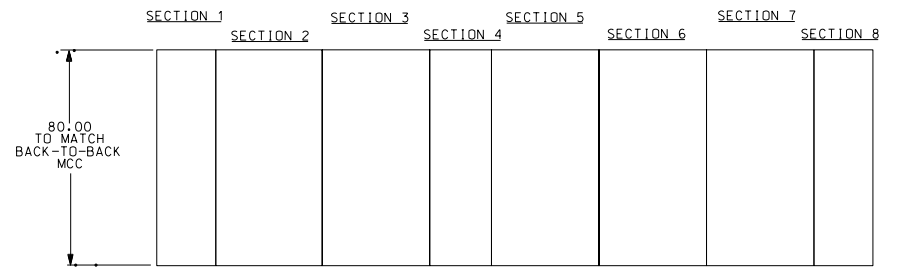
CUTOUT SWITCH - 43



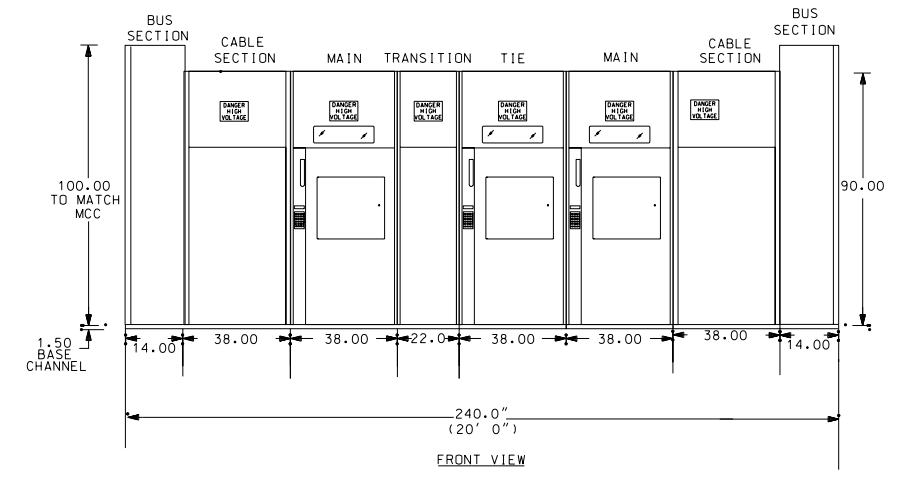
SUPERVISORY CONTROL PANEL
DARK SIDE INDICATES CONNECTION INTERNAL TO PANEL
NOTE: WIRE REMOTE TRIP AND REMOTE CLOSE TERMINALS TO SUPERVISORY CONTROL PANEL.



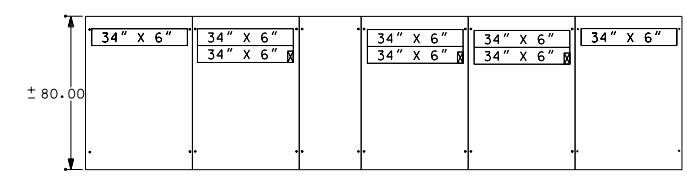
MAIN INCOMING CIRCUIT
FEEDER MANAGEMENT RELAY
TERMINAL POINT IN INCOMING SWITCHGEAR.
DARK SIDE INDICATES CONNECTIONS INTERNAL TO PANEL.



TOP VIEW



FRONT VIEW



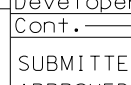
FLOOR PLAN

**INCOMING SERVICE CIRCUIT INTERRUPTER
SWITCHGEAR LAYOUT**

NOTE: DIMENSIONS SHOWN ARE TYPICAL FOR PREFERRED ARRANGEMENT. MINOR VARIATION IN DIMENSIONS TO ACCOMMODATE MANUFACTURERS STANDARD IS ACCEPTABLE.

No.	Revision	Drawn	Approved	Date

Revisions


DESIGN STANDARDS PUMP STATION
 5KV INCOMING SWITCHGEAR & CONTROL SCHEMATIC
 Developer SAN ANTONIO WATER SYSTEMS
 Cont. Budget Proj.
 SUBMITTED GRUBB ENGINEERING, INC.
 APPROVED _____
 Map No. _____ Section No. _____
 Dr. Rdgj|Ch Job No. _____