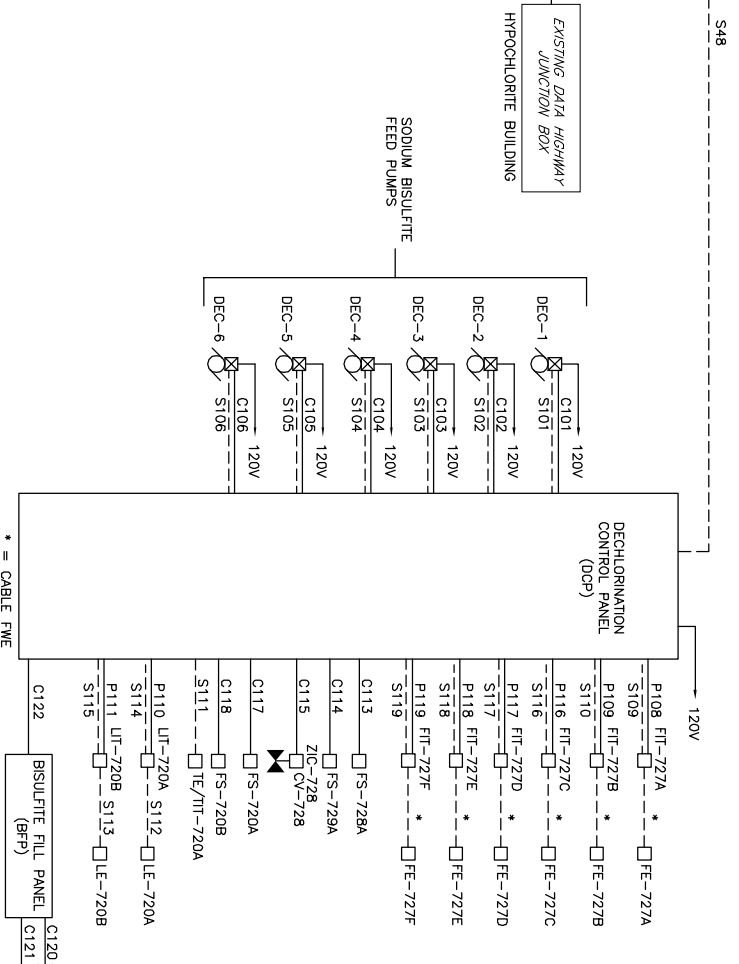
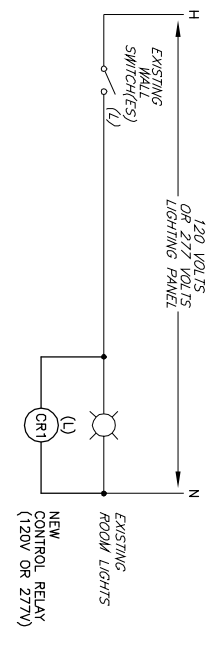


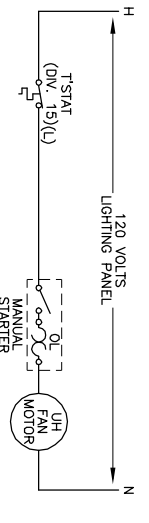
**CONTROL AND INSTRUMENTATION WIRING DIAGRAM  
HYPOCHLORITE BUILDING AND CHLORINE CONTACT TANK**



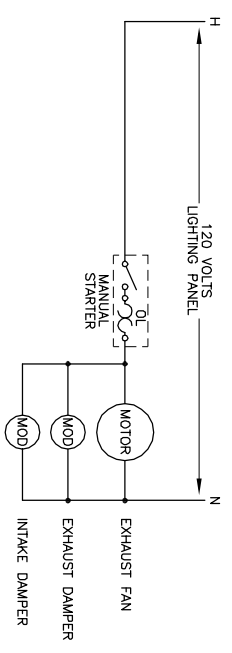
**CONTROL AND INSTRUMENTATION WIRING DIAGRAM  
BISULFITE BUILDING**



**TYPICAL SCHEMATIC DIAGRAM  
INTERMITTENT VENTILATION EXHAUST FANS**  
EF-1, EF-2, EF-3, EF-5, EF-7, EF-8



**TYPICAL SCHEMATIC DIAGRAM  
UNIT HEATERS**



**TYPICAL SCHEMATIC DIAGRAM  
CONTINUOUS VENTILATION EXHAUST FANS**  
EF-4 AND EF-6

- NOTES:**
1. TEMPORARY DECHLORINATION CONTROL PANEL WILL BE LOCATED IN A TEMPORARY BUILDING PROVIDED BY THE CONTRACTOR. REFER TO SPECIFICATION SECTIONS 01010, 01500, AND 11234 FOR ADDITIONAL DETAILS.
  2. PROVIDE SIGNAL SPLITTER FOR EXISTING SIGNAL FROM FLOW METER FIT-720. SPLITTER SHALL BE LOCATED IN UTILITY TUNNEL AREA BETWEEN AERATION TANKS AND PRIMARY BASINS. REFER TO LOCATION PLAN ON DRAWING E-6 FOR APPROXIMATE LOCATION. PROVIDE NEW 120 VOLT POWER FOR SIGNAL SPLITTER FROM NEAREST AVAILABLE SOURCE WITHIN TUNNEL. PROVIDE NEW INSTRUMENTATION CABLE FROM SPLITTER THROUGH TUNNEL AND PIPE TRENCH TO COP AT HYPOCHLORITE BUILDING.
  3. EXISTING SIGNAL FROM FLOW METER FIT-700 SHALL BE INTERCEPTED AT EXISTING HANDHOLE BETWEEN HYPOCHLORITE AND BISULFITE BUILDINGS. PROVIDE NEW INSTRUMENTATION CABLES TO ROUTE SIGNAL TO SPLITTER IN COP THEN BACK TO HANDHOLE. CONNECT NEW CABLES TO EXISTING CABLES WITH WATERPROOF CONNECTIONS.

NO	REVISIONS	APP'D	DATE	PROGRESS PRINTS
1				ISSUED FOR REVIEW: 12-15-04
2				ISSUED FOR BIDDING: 2-18-05
				WALT LOCATION: FF 58
				LAST WORKED ON:
				FILENAME:

DRAWN BY SJM  
CHECKED BY DWL/PFB  
DATE 2-18-05  
APPROVED BY DWL/PFB  
DATE 2-18-05  
BOOK NO. -  
PROJECT NO. 10301C  
SCALE AS NOTED



PORTLAND WATER DISTRICT  
PORTLAND, MAINE  
EAST END WWTF DISINFECTION AND  
DECHLORINATION SYSTEMS UPGRADE  
CONTROL AND INSTRUMENTATION  
WIRING DIAGRAMS