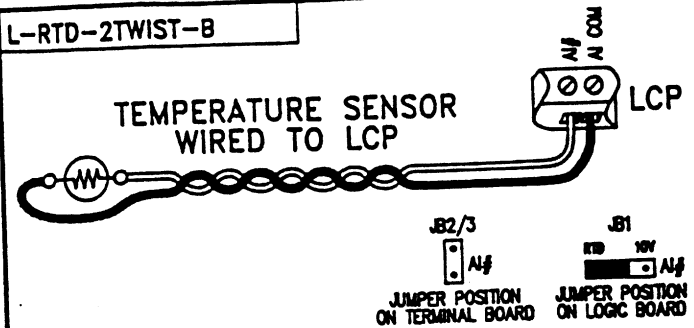
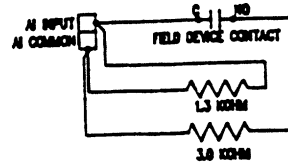


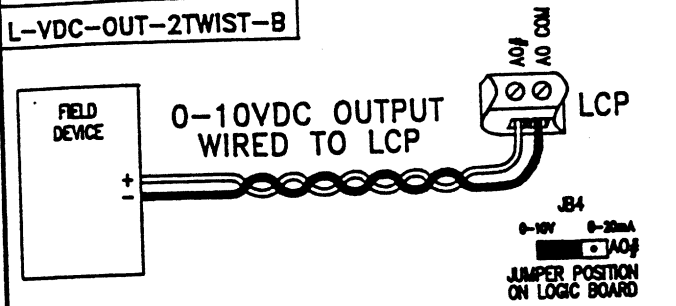
L-RTD-2TWIST-B



MUX-1

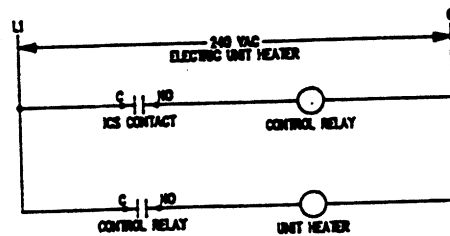


L-VDC-OUT-2TWIST-B



CC-2

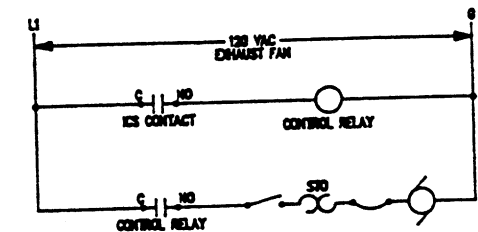
ELECTRIC UNIT HEATER  
CONTROL WIRING DETAIL-240 VAC



USE ALLEN BRADLEY RELAY MODEL, H048A2, JOHNSON CONTROLS ENCLOSURE, E2-1000-4

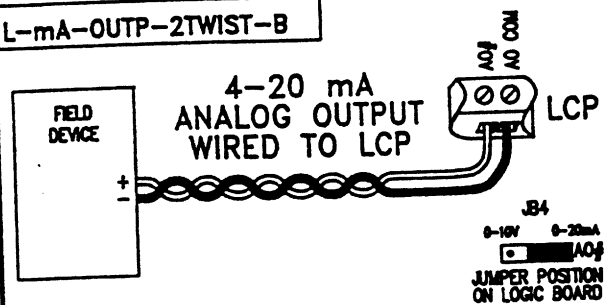
CC-3

EXHAUST FAN  
CONTROL WIRING DETAIL-120 VAC



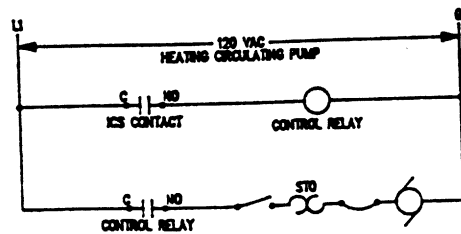
USE ALLEN BRADLEY RELAY MODEL, H048A2, JOHNSON CONTROLS ENCLOSURE, E2-1000-4 AND ALLEN BRADLEY MANUAL MOTOR STARTER MODEL, 800-TAX.

L-mA-OUTP-2TWIST-B



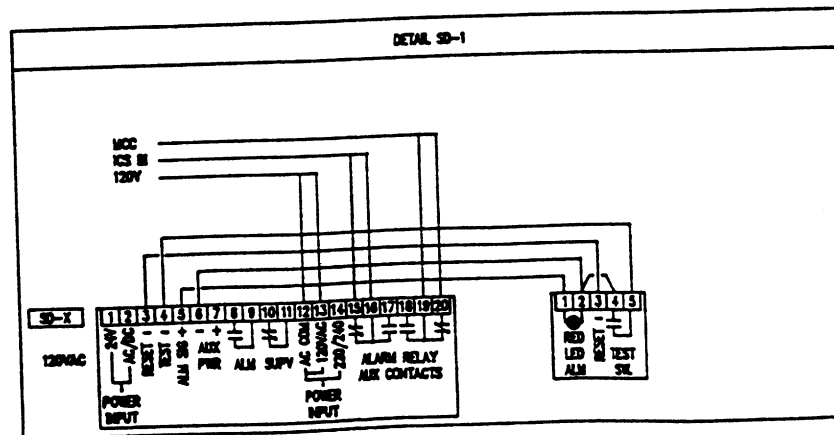
CC-1

HEATING WATER CIRCULATING  
PUMP WIRING DETAIL-120 VAC



USE ALLEN BRADLEY RELAY MODEL, H048A2, JOHNSON CONTROLS ENCLOSURE, E2-1000-4 AND ALLEN BRADLEY MANUAL MOTOR STARTER MODEL, 800-TAX.

SD-1



MOUNT RESET 5 FEET ABOVE FLOOR.

Notes:

Outdoor air temperatures for economizer operation will be distributed by way of the H1 and H2 communication buses for all systems in subinitial 15 Building 400 and 420.

SEE 31.3 TO PROVIDE LABOR AND MATERIAL TO AND A FULLY OPERATIONAL TAPE BACK BUILT INTO OPERATOR WORKSTATION, DWS-1.

DRAWING TITLE  
HVAC DETAILS #07

PROJECT  
The Argonne National Labs  
Advanced Photon Source Campus  
9700 Cass Avenue South  
Argonne, IL 60439

4	CC REVISION	05/05/05	ST
3	GENERAL	05/05/05	ST
2	GENERAL	10/05/04	ST
1	ISSUED FOR CONSTRUCTION	05/05/04	ST
APPROVED		DATE	
DRAWN		DATE	
CHECKED		DATE	
DESIGNED		DATE	
PROJECT ENGINEER		DATE	
SALES ENGINEER		DATE	
CONTRACT NUMBER		91390-0009	
DRAWING NUMBER		H-REF-07	

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