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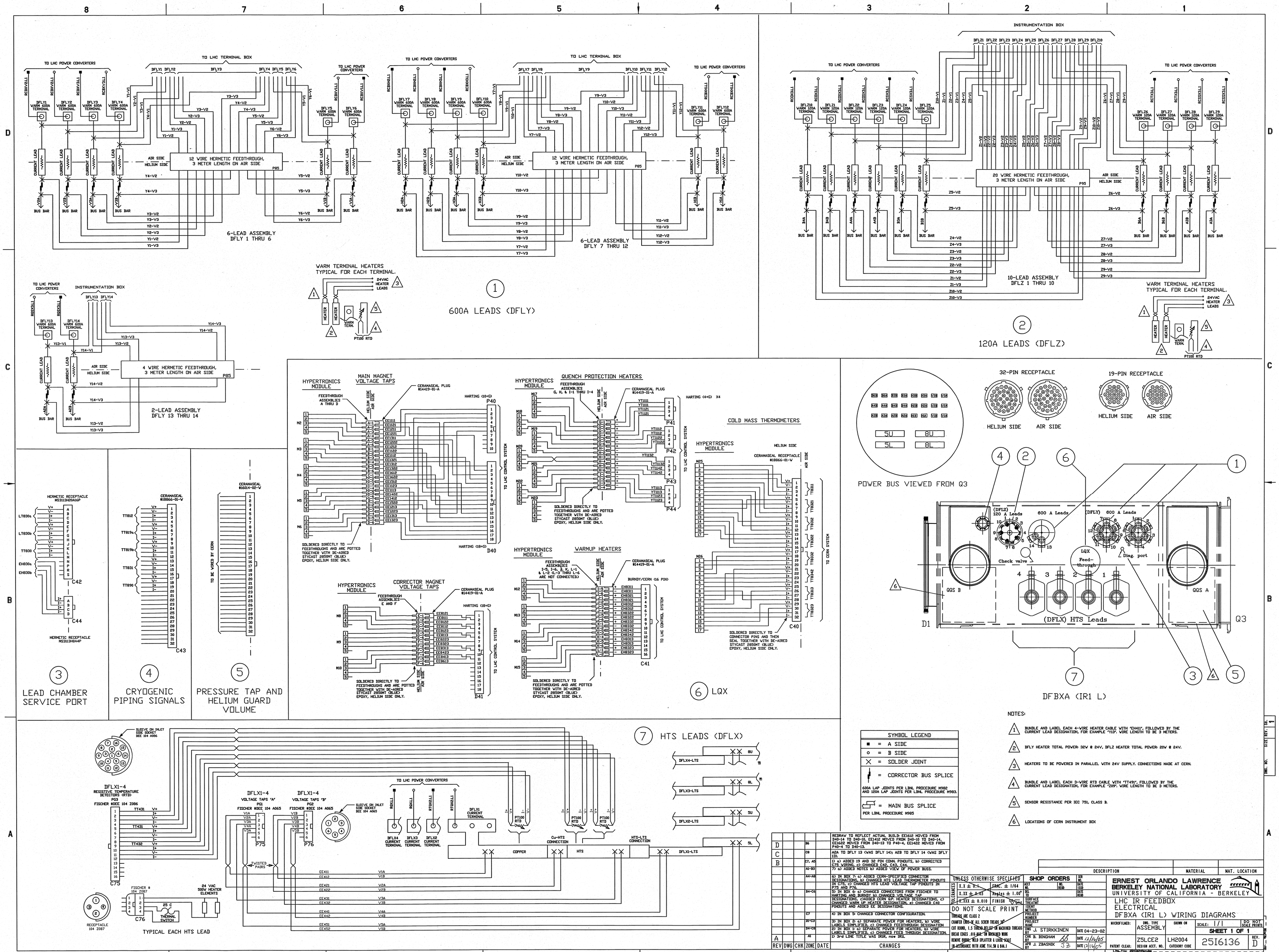

NOTES:

1. BUNDLE AND LABEL EACH 4-WIRE HEATER CABLE WITH 'EH411', FOLLOWED BY THE CURRENT LEAD DESIGNATION, FOR EXAMPLE '713'. WIRE LENGTH TO BE 3 METERS.
2. DFLY HEATER TOTAL POWER: 32W @ 24V, DFLZ HEATER TOTAL POWER: 20W @ 24V.
3. HEATERS TO BE POWERED IN PARALLEL WITH 24V SUPPLY. CONNECTIONS MADE AT CERN.
4. BUNDLE AND LABEL EACH 3-WIRE RTD CABLE WITH 'TT491', FOLLOWED BY THE CURRENT LEAD DESIGNATION, FOR EXAMPLE '209'. WIRE LENGTH TO BE 3 METERS.
5. SENSOR RESISTANCE PER IEC 751, CLASS B.
6. LOCATIONS OF CERN INSTRUMENT BOX

SYMBOL LEGEND	
■	= A SIDE
○	= B SIDE
X	= SOLDER JOINT
	= CORRECTOR BUS SPLICE 600A LAP JOINTS PER LBNL PROCEDURE M982 AND 120A LAP JOINTS PER LBNL PROCEDURE M983.
	= MAIN BUS SPLICE PER LBNL PROCEDURE M985

REV	DWG	CHK	ZONE	DATE	CHANGES
D			B6		REDRAW TO REFLECT ACTUAL BUILD: EE1612 MOVED FROM D40-14 TO D40-10, EE1412 MOVED FROM D40-10 TO D40-14, EE1622 MOVED FROM D40-13 TO P40-4, EE1422 MOVED FROM P40-4 TO D40-13.
C			C8		A2B TO DFLY 13 (WAS DFLY 14); A2B TO DFLY 14 (WAS DFLY 13).
B			C7, A5		1) a) ADDED 19 AND 32 PIN CONN. PINOUTS, b) CORRECTED S75 WIRING, c) CHANGED C42, C43, C44. 7) a) ADDED NOTES b) ADDED VIEW OF POWER BUSS.
			A1-B3		
			A4-A8		6) IN BOX 7: a) ADDED CERN-SPECIFIED CONNECTOR DESIGNATIONS, b) CHANGED HTS LEAD THERMOMETER PINOUTS IN C75, c) CHANGED HTS LEAD VOLTAGE TAP PINOUTS IN P75 AND P76.
			B4-C4		5) IN BOX 6: a) CHANGED CONNECTORS FROM FISCHER TO HARTING AND BURNDY b) CHANGED VOLTAGE TAP DESIGNATIONS, c)ADDED CERN QP. HEATER DESIGNATIONS, c) CHANGED WARM UP HEATER DESIGNATION. e) CHANGED C40 PINOUTS AND ADDED EE DESIGNATIONS.
			C7		4) IN BOX 5: CHANGED CONNECTOR CONFIGURATION.
			B1-C3		3) IN BOX 3: a) SEPARATE POWER FOR HEATERS, b) WIRE LABELS SIMPLIFIED, c) CHANGED FEEDTHROUGH DESIGNATION
			B4-C8		2) IN BOX 1: a) SEPARATE POWER FOR HEATERS, b) WIRE LABELS SIMPLIFIED, c) CHANGED FEED THROUGH DESIGNATION.
A			A1		1) 3rd LINE TITLE WAS IR1R, now IR1L

UNLESS OTHERWISE SPECIFIED
TOL. ELIMINATE: X.X ± 0.1; X.XX ± 0.03; X.XXX ± 0.010; ANG. ± 1/64; Angles ± 1.00°; FINISH 125 μin
DO NOT SCALE PRINT
THREADS ARE CLASS 2
CHAMFER ENDS OF ALL SCREW THREADS 30°
CUT BURR, 1.5 THREAD RELIEF OF MACHINED THREADS
BREAK EDGES .010 MAX OF MACHINED WORK
REMOVE BURRS, WELD SPLATTER & LOOSE SCALE
IN ACCORDANCE WITH ASME Y14.5M & B46.1

SHOP ORDERS: SER NO., ACCT NO., DATE, DEPT, DEPT, SUBTASK, TREATMT, TREAT METHOD, PROJECT NUMBER, PROJECT NAME

DWG J. STIRKKINEN		DATE 04-23-02	
CHK B. BINGHAM		DATE 12/16/05	
APR J. ZBASNIK		DATE 12/16/05	

MICROFILMED: | DWG. TYPE: ASSEMBLY | SHOWN ON | SCALE: 1/1 | DO NOT SCALE PRINTS
PATENT CLEAR: | DESIGN ACCT. NO.: Z5LCE2 | CATEGORY CODE: LH2004 | SHEET 1 OF 1 | REV. D

DESCRIPTION | MATERIAL | MAT. LOCATION

ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY
UNIVERSITY OF CALIFORNIA - BERKELEY

LHC IR FEEDBOX
ELECTRICAL
DFBXA (IR1 L) WIRING DIAGRAMS

DWG. NO. 25I6136 | REV. D | SIZE | REV. SYM.