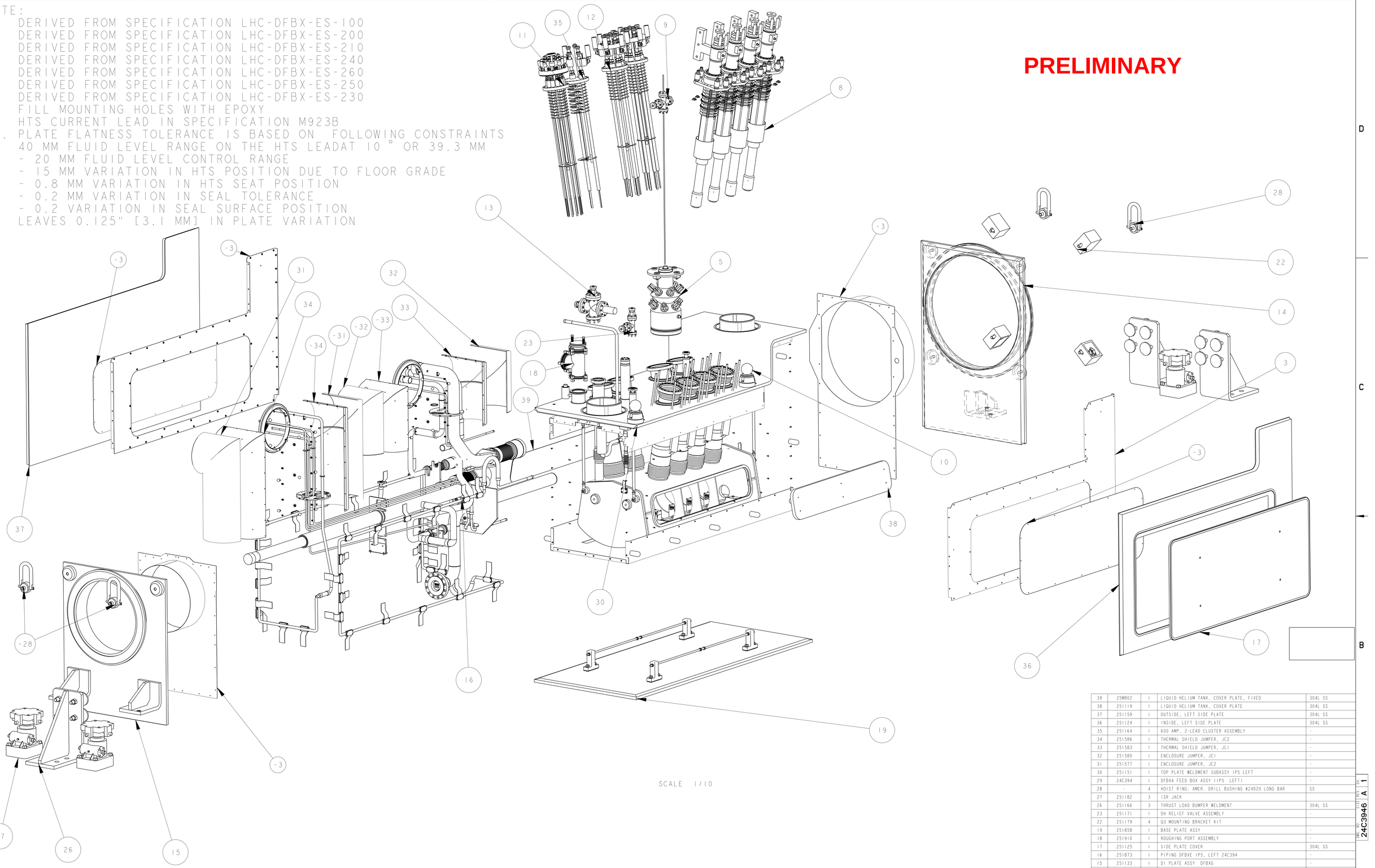
NOTE:
1. DERIVED FROM SPECIFICATION LHC-DFBX-ES-100
2. DERIVED FROM SPECIFICATION LHC-DFBX-ES-200
3. DERIVED FROM SPECIFICATION LHC-DFBX-ES-210
4. DERIVED FROM SPECIFICATION LHC-DFBX-ES-240
5. DERIVED FROM SPECIFICATION LHC-DFBX-ES-260
6. DERIVED FROM SPECIFICATION LHC-DFBX-ES-250
7. DERIVED FROM SPECIFICATION LHC-DFBX-ES-230
8. FILL MOUNTING HOLES WITH EPOXY
9. HTS CURRENT LEAD IN SPECIFICATION M923B
10. PLATE FLATNESS TOLERANCE IS BASED ON FOLLOWING CONSTRAINTS
    40 MM FLUID LEVEL RANGE ON THE HTS LEADAT 10 ° OR 39.3 MM
    - 20 MM FLUID LEVEL CONTROL RANGE
    - 15 MM VARIATION IN HTS POSITION DUE TO FLOOR GRADE
    - 0.8 MM VARIATION IN HTS SEAT POSITION
    - 0.2 MM VARIATION IN SEAL TOLERANCE
    - 0.2 VARIATION IN SEAL SURFACE POSITION
    LEAVES 0.125" [3.1 MM] IN PLATE VARIATION

PRELIMINARY



SCALE 1/10

ITEM	PART NO	REQD	DESCRIPTION	MATERIAL
39	25M802	1	LIQUID HELIUM TANK, COVER PLATE, FIXED	304L SS
38	251119	1	LIQUID HELIUM TANK, COVER PLATE	304L SS
37	251159	1	OUTSIDE, LEFT SIDE PLATE	304L SS
36	251124	1	INSIDE, LEFT SIDE PLATE	304L SS
35	251164	1	600 AMP, 2-LEAD CLUSTER ASSEMBLY	-
34	251586	1	THERMAL SHIELD JUMPER, JC2	-
33	251583	1	THERMAL SHIELD JUMPER, JC1	-
32	251580	1	ENCLOSURE JUMPER, JC1	-
31	251577	1	ENCLOSURE JUMPER, JC2	-
30	251151	1	TOP PLATE WELDMENT SUBASSY IP5 LEFT	-
29	24C394	1	DFBXA FEED BOX ASSY (IP5 LEFT)	-
28	-	4	HOIST RING: AMER. DRILL BUSHING #24020 LONG BAR	SS
27	251182	3	ISR JACK	
26	251166	3	THRUST LOAD BUMPER WELDMENT	304L SS
23	251171	1	DH RELIEF VALVE ASSEMBLY	-
22	251179	4	Q3 MOUNTING BRACKET KIT	
19	251858	1	BASE PLATE ASSY	-
18	251910	1	ROUGHING PORT ASSEMBLY	-
17	251125	1	SIDE PLATE COVER	304L SS
16	251873	1	PIPING DFBXE IP5, LEFT 24C394	-
15	251133	1	DI PLATE ASSY DFBXG	-
14	251129	1	Q3 PLATE ASSY	-
13	251339	1	HELIUM PORT RELIEF VALVE ASSEMBLY	-
12	24C353	2	600 AMP,6 LEAD VAPOR COOLED ASSY	-
11	24C322	1	120 AMP VC LEAD MOUNTING ASSY	-
10	251868	2	TOOLING BALL, LHCGIMSA00092	-
9	251162	1	LHE DIAGNOSTIC ASSY	-
8	251156	6	PIRELLI HTS LEAD KIT	-
5	251831	1	LQX DIAGONSTIC ASSEMBLY	-
3	251079	1	THERMAL SHIELD ASSY, DFBXG	-

11. SOLDER JOINT USING SN60PB40 SOLDER; ROSIN FLUX, USE SPLICE PLATE IF REQUIRED
12. CLOSEOUT WELD PROCEDURE TO BE APPROVED BY LBNL
    DISTORTION CONTROL IS ESSENTIAL, ROOT PASS GTAW, COVER PASSES GMAW, SMAW, FCMAW.
13. WELD PROCEDURE TO BE APPROVED BY LBNL, USE GTAW PROCESS
14. BELLOWS TO BE WITHIN 0.03" OF FREE CONFIGURATION AFTER CLOSEOUT WELDING
15. DIMENSIONS FROM DFBX FLANGE FACE ON DI SIDE, ADD -2367.2 MM TO OBTAIN POSITION RELEATIVE TO DFBX COORDINATE SYSTEM
16. SHIM TANK SUPPORTS TO LIMIT STATIC DEFLECTION OF THE LOWER TANK SUPPORT RODS TO LESS THAN 0.25"
17. DIMENSIONS SHOW IN INSPECTION OVAL ARE REFERENCED IN THE FABRICATION TRAVELER
18. COPPER STRAP ATTACHED TO THE THERMAL ANCHORS DO NOT HAVE TO BE EVENLY SPACED.
19. ALL DIMENSIONS GIVEN AT ROOM TEMPERATURE

THIRD ANGLE PROJECTION

REV	DWG	CHK	ZONE	DATE	CHANGES
A	JDR	DPQ		10/03/02	INITIAL RELEASE

UNLESS OTHERWISE SPECIFIED
TOLERANCES: X.X ± 0.1 | FRAC. ± 1/64 | X.XX ± 0.03 | Angles ± 1.00° | X.XXX ± 0.010 | FINISH 125
DO NOT SCALE PRINT
THREADS ARE CLASS 2
CHAMFER ENDS OF ALL SCREW THDS 30°
CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS
BREAK EDGES .016 MAX. ON MACHINED WORK
REMOVE BURRS, WELD SPLATTER & LOOSE SCALE
IN ACCORDANCE WITH ASME Y14.5M & B46.1

SHOP ORDERS
ACCT NO. | REQD
DES
SURFACE TREATMENT -
IDENT METHOD -
PROJECT NUMBER -
PROJECT NAME N/A
DWN M J KNOLLS | DATE 02-Nov-01
CHK Jon Zbasnik | DATE 03-OCT-02
APP Jon Zbasnik | DATE 03-OCT-02
DEV NO. -
ISSD DATE -
REVD DATE -

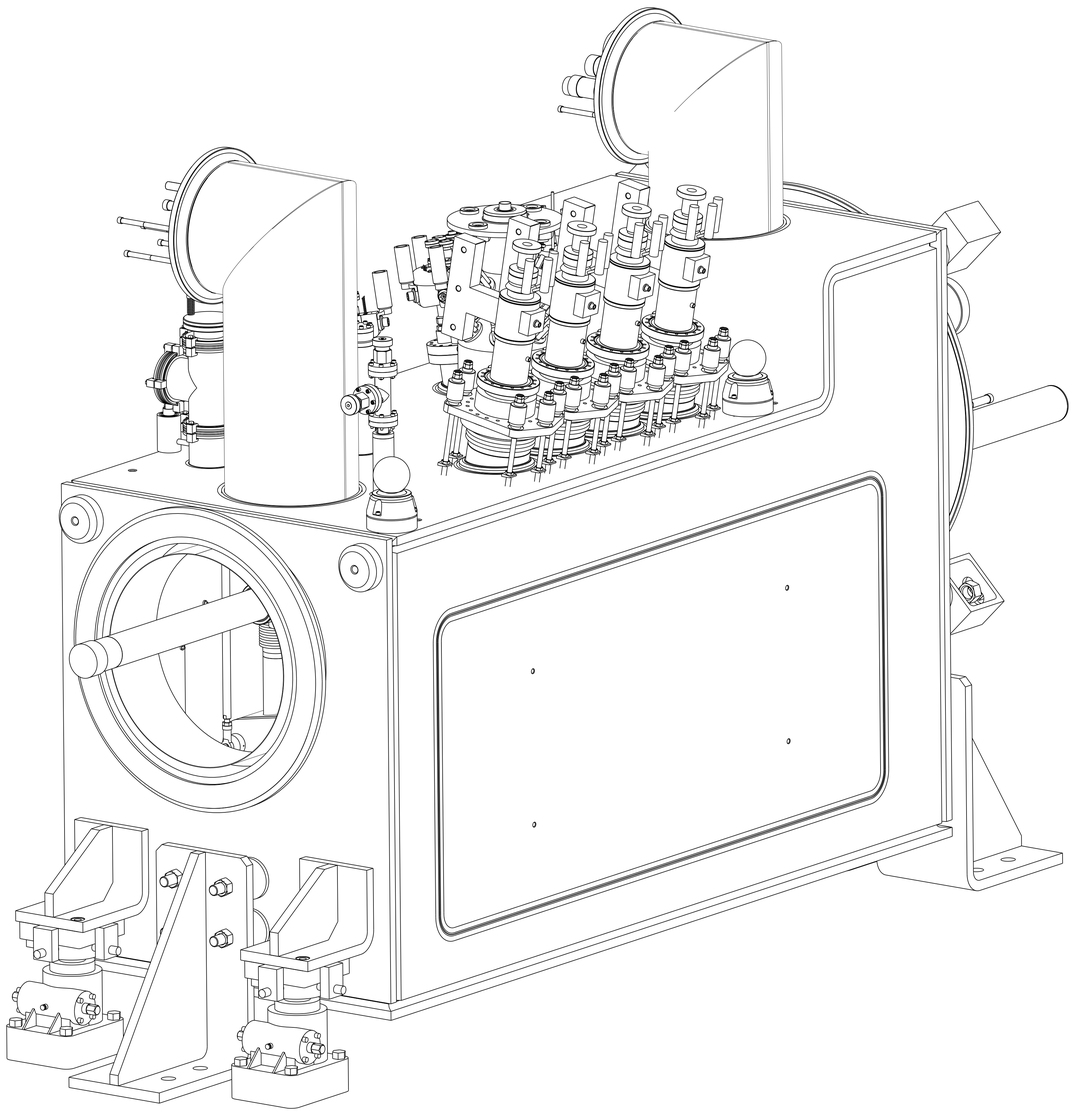
ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY
UNIVERSITY OF CALIFORNIA - BERKELEY

LHC IR FEEDBOX
MAJOR ASSEMBLY
DFBXE (IP5, LEFT) FEED BOX ASSY

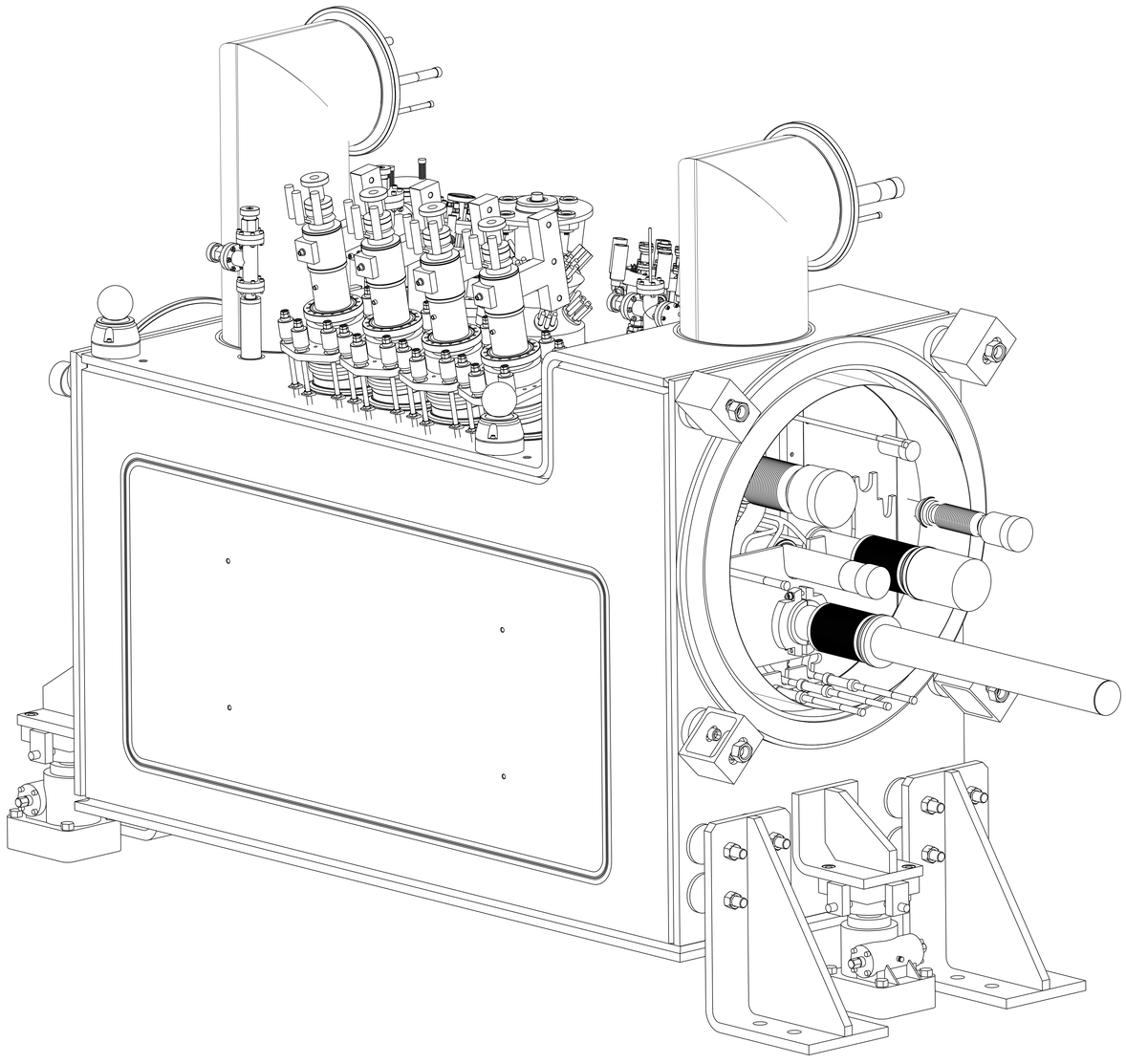
MICROFILMED: | DWG. TYPE ASSEM | SHOWN ON - | SCALE: 1/10 | DO NOT SCALE PRINTS
SHEET 1 OF 3
PATENT CLEAR: | DESIGN ACCT. NO. Z5LCE2 | CATEGORY CODE LH2001 | DWG. NO. 24C3946 | SIZE A | REV. A

DWG. NO. 24C3946 SIZE A REV 1

PRELIMINARY



D1 END



Q3 END

DFBXG, IP8 (LEFT)

THIRD ANGLE PROJECTION

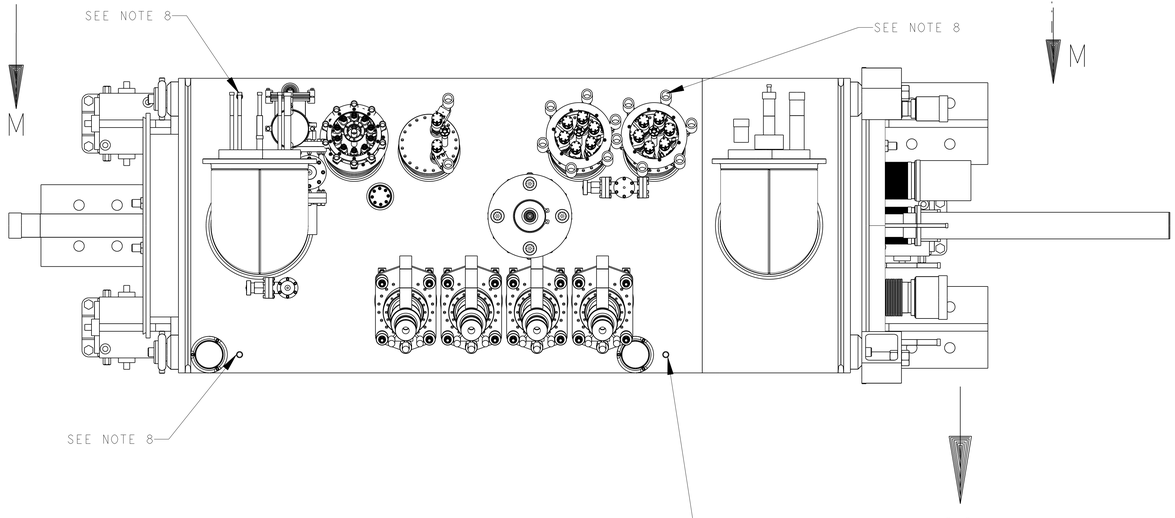
ERNEST ORLANDO LAWRENCE
BERKELEY NATIONAL LABORATORY
UNIVERSITY OF CALIFORNIA - BERKELEY

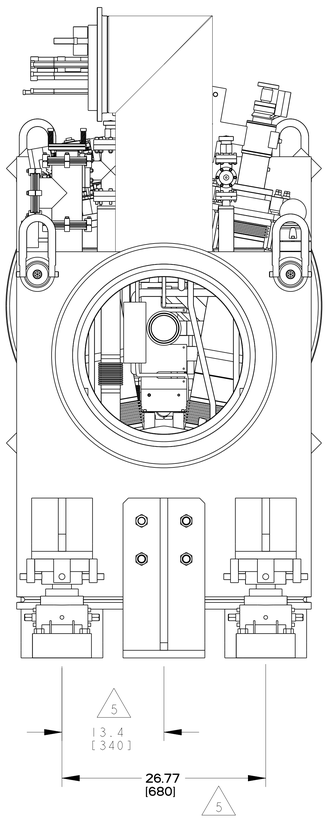
LHC IR FEEDBOX
MAJOR ASSEMBLY
DFBXE (IP5, LEFT) FEED BOX ASSY

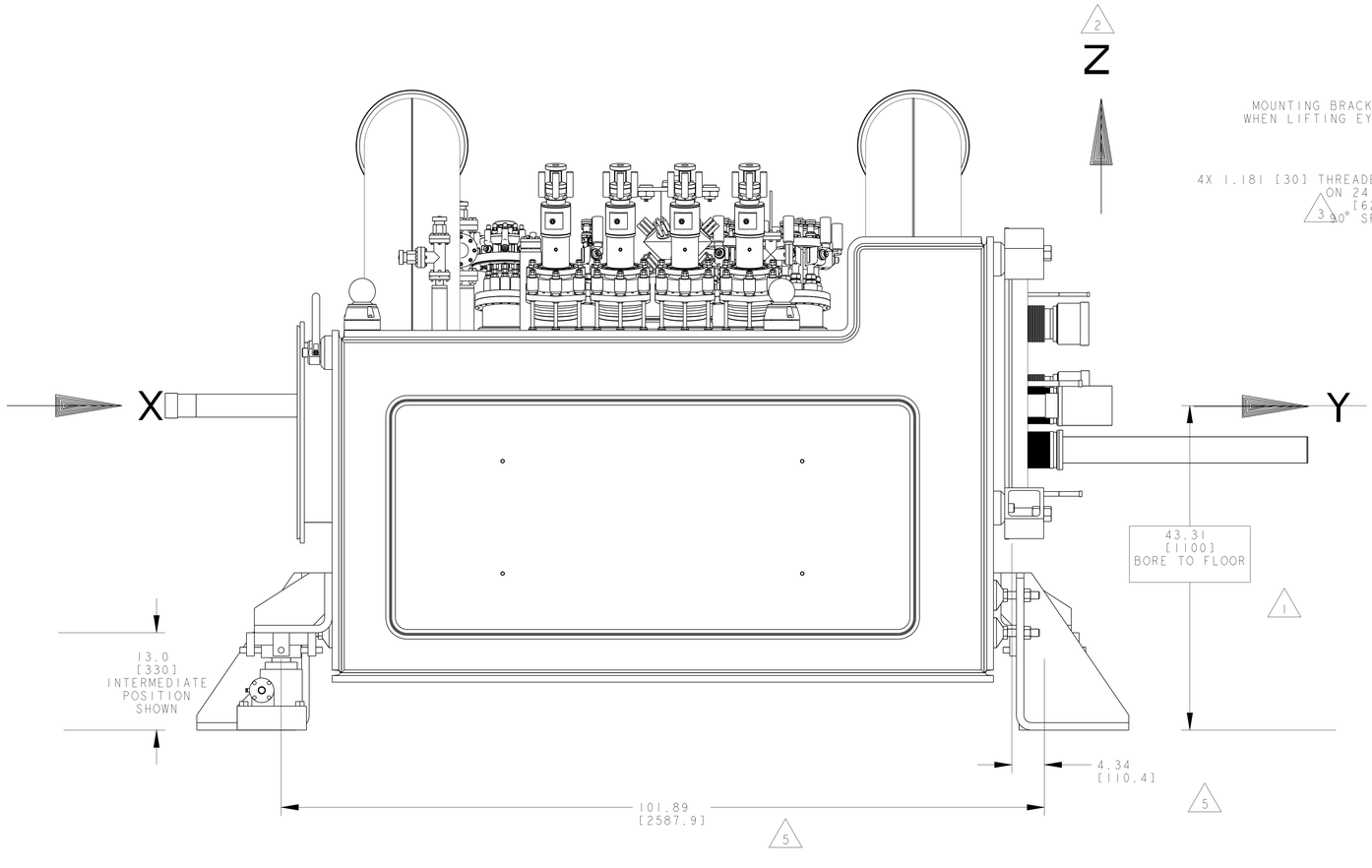
MICROFILMED:	DWG. TYPE	SHOWN ON	SCALE: 9/50	DO NOT SCALE PRINTS
	ASSEM	-	SHEET 2 OF 3	
PATENT CLEAR:	DESIGN ACCT. NO.	CATEGORY CODE	DWG. NO.	SIZE / REV.
	Z5LCE2	LH2001	24C3946	A

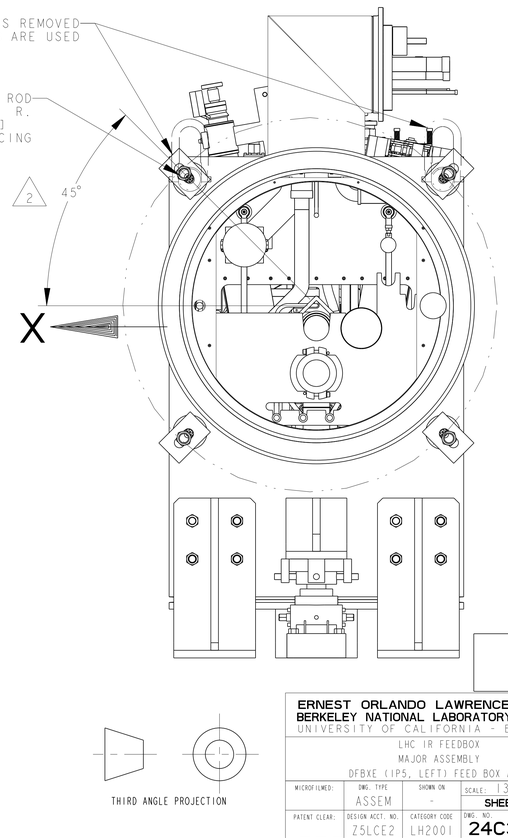
DWG. NO. 24C3946 SIZE A SHT 2

PRELIMINARY









THIRD ANGLE PROJECTION

ERNEST ORLANDO LAWRENCE
BERKELEY NATIONAL LABORATORY
UNIVERSITY OF CALIFORNIA - BERKELEY

LHC IR FEEDBOX
MAJOR ASSEMBLY
DFBXE (IP5, LEFT) FEED BOX ASSY

MICROFILMED:	DWG. TYPE	SHOWN ON	SCALE: 1:3/100	DO NOT SCALE PRINTS
	ASSEM	-	SHEET 3 OF 3	
PATENT CLEAR:	DESIGN ACCT. NO.	CATEGORY CODE	DWG. NO.	SIZE / REV.
	Z5LCE2	LH2001	24C3946	A

DWG. NO. 24C3946 SHEET NO. 3 A