

NOTES:

101. ALL DIMENSIONS ARE IN MILLIMETERS (mm) AND VALUES ARE IN SI UNITS. DIMENSIONS AND VALUES IN BRACKETS ARE U.S. CUSTOMARY UNITS (inch) CONVERTED FROM MILLIMETERS / SI UNITS.

107. INSPECTION / ACCEPTANCE TO BE MEASURED AND RECORDED IN SI UNITS.

109b. ESTIMATED WEIGHT IS 136.4 KG

901. FOR ADDITIONAL INFORMATION, SEE TQDC MECHANICAL REQUIREMENTS DOCUMENT.

ABBREVIATIONS:

ALS-U = ADVANCE LIGHT SOURCE UPGRADE

ASSY = ASSEMBLY

BTA = BOOSTER-TO-ACCUMULATOR RING TRANSFER LINE

CKT = CIRCUIT

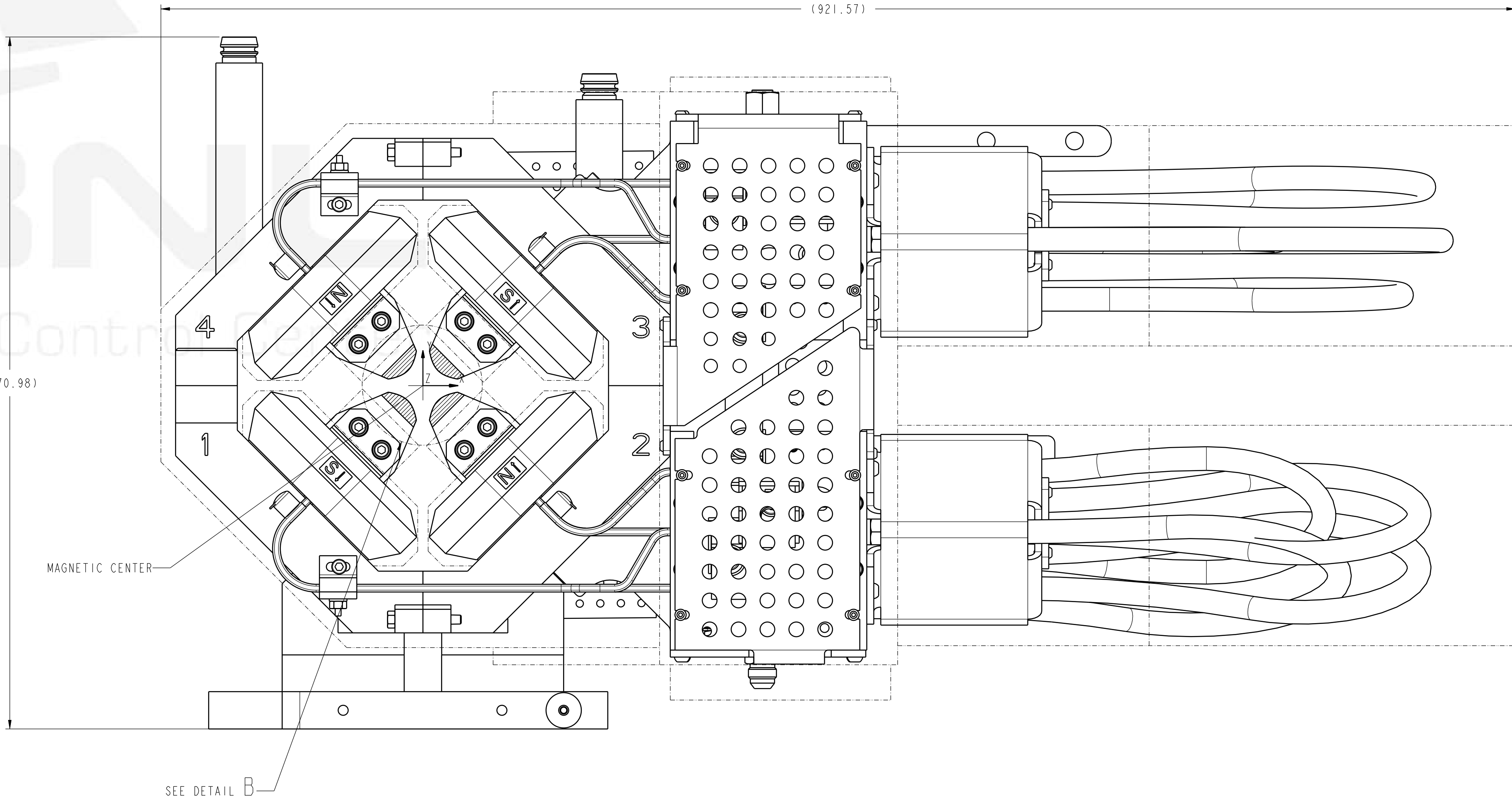
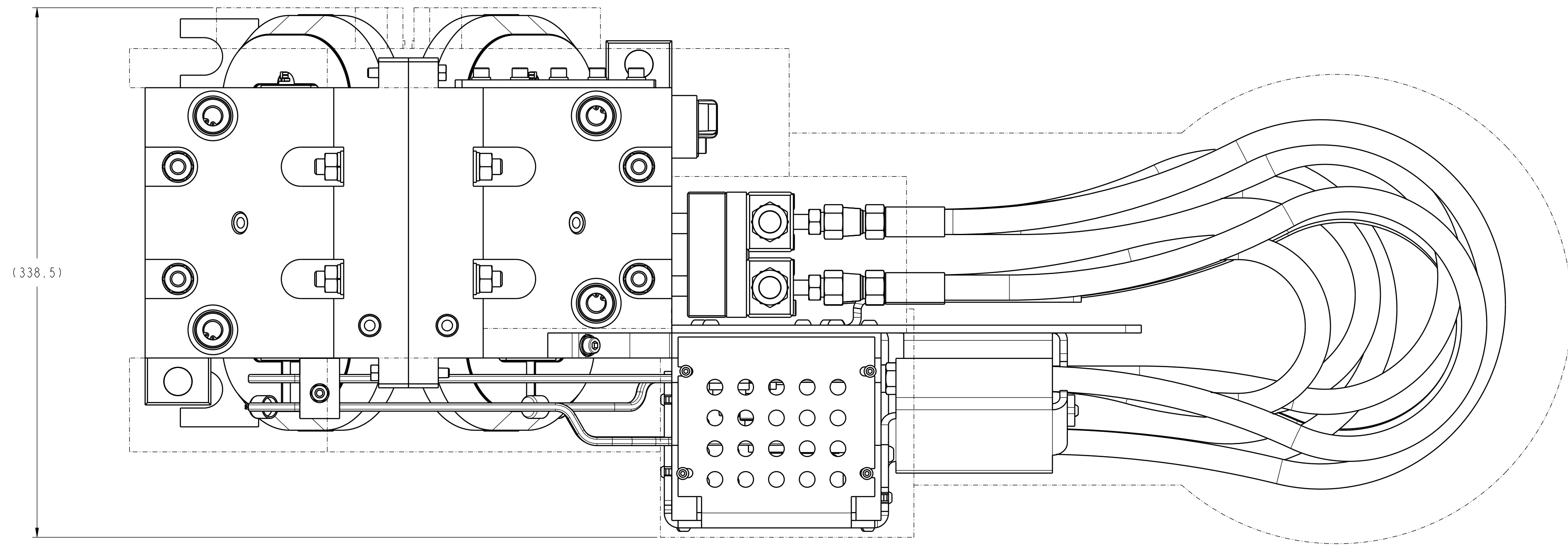
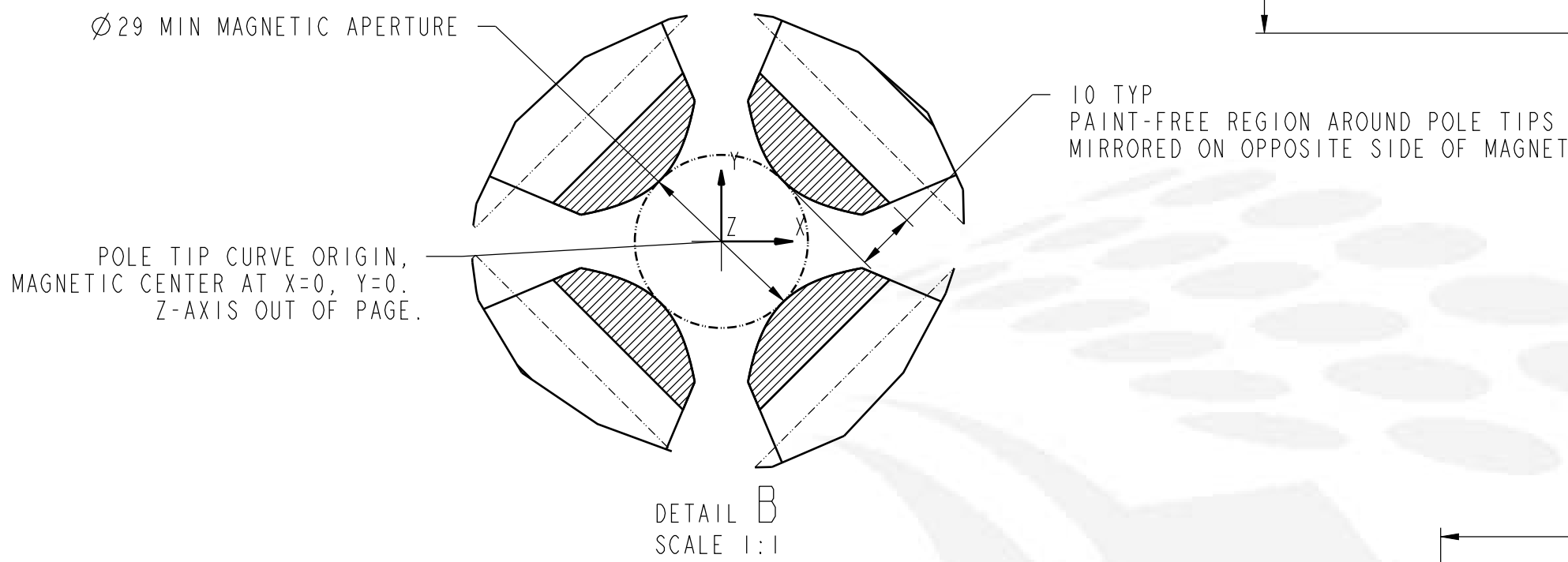
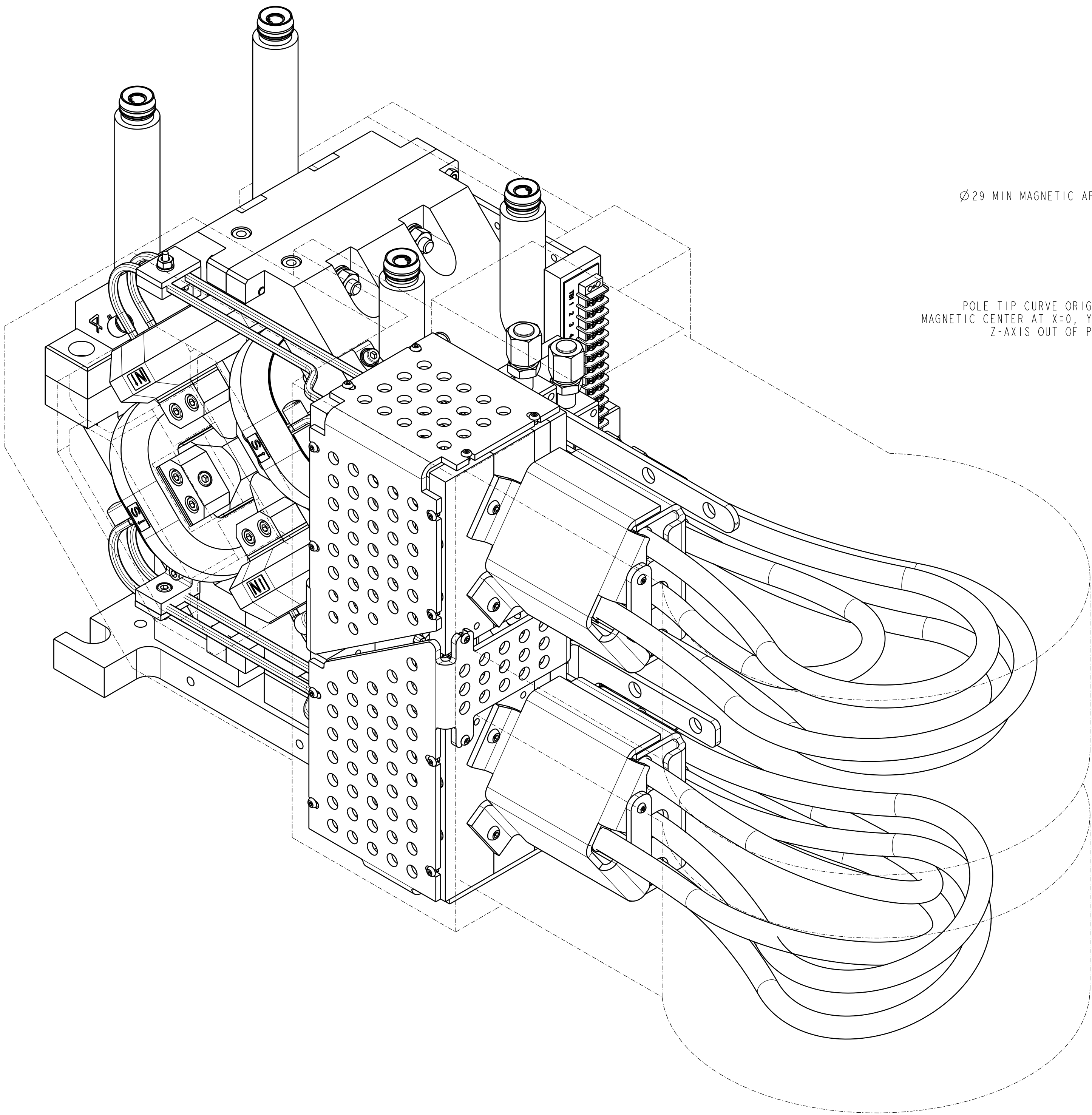
ESD = ENGINEERING SPECIFICATION DOCUMENT

LBL = LAWRENCE BERKELEY NATIONAL LABORATORY

LCW = LOW-CONDUCTIVITY WATER

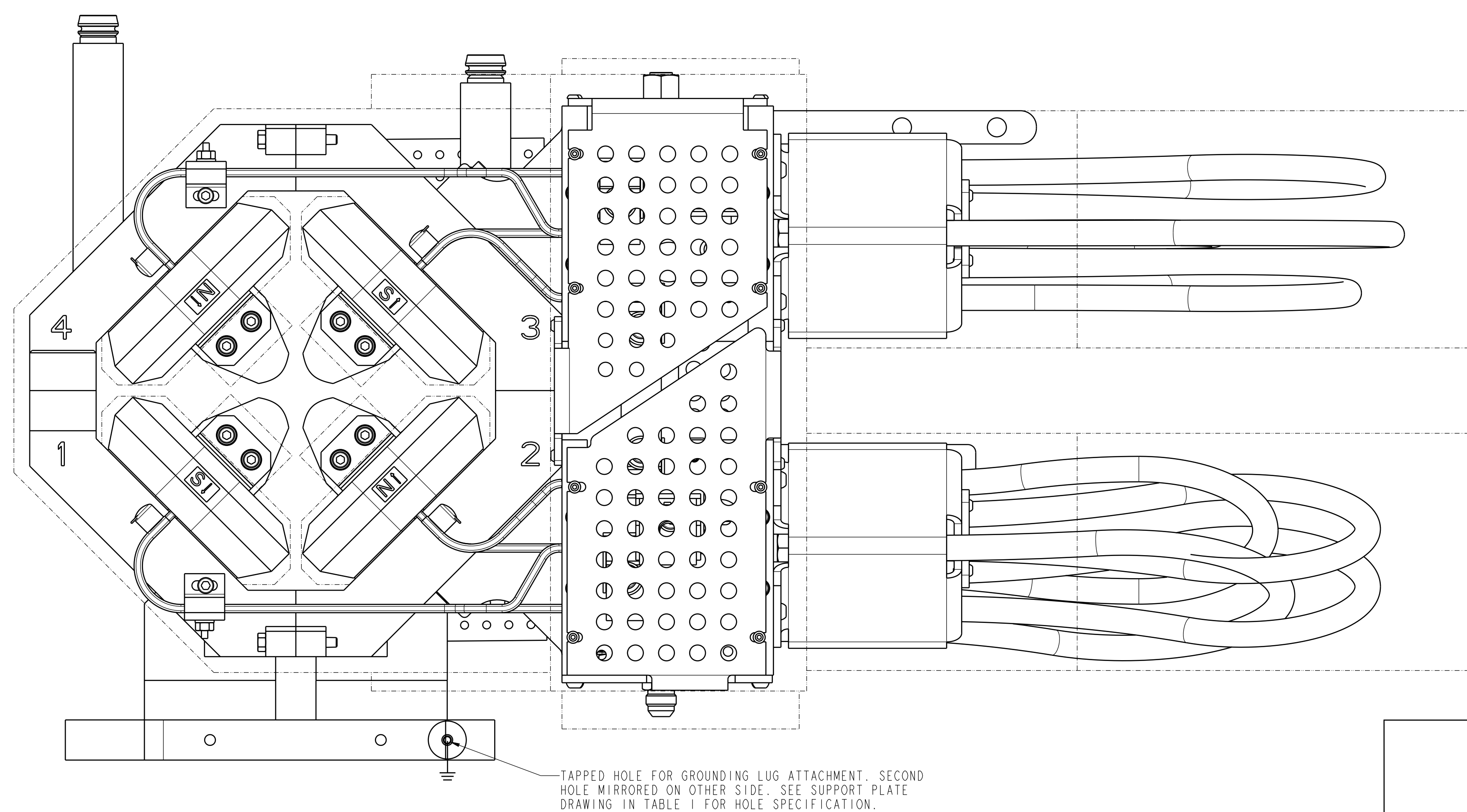
TQDC = DE-FOCUSING QUADRUPOLE TYPE C

TQDC MASTER DRAWING

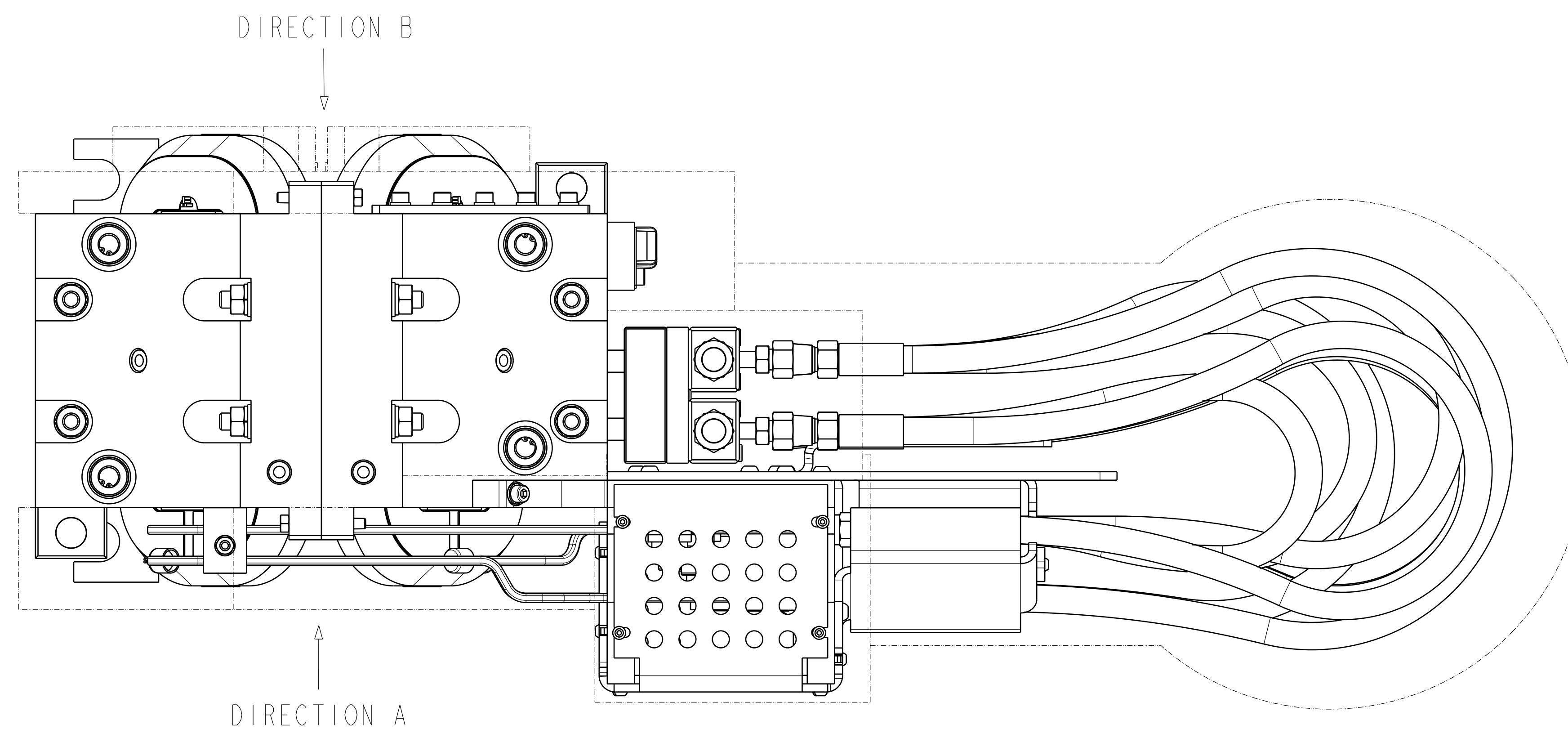
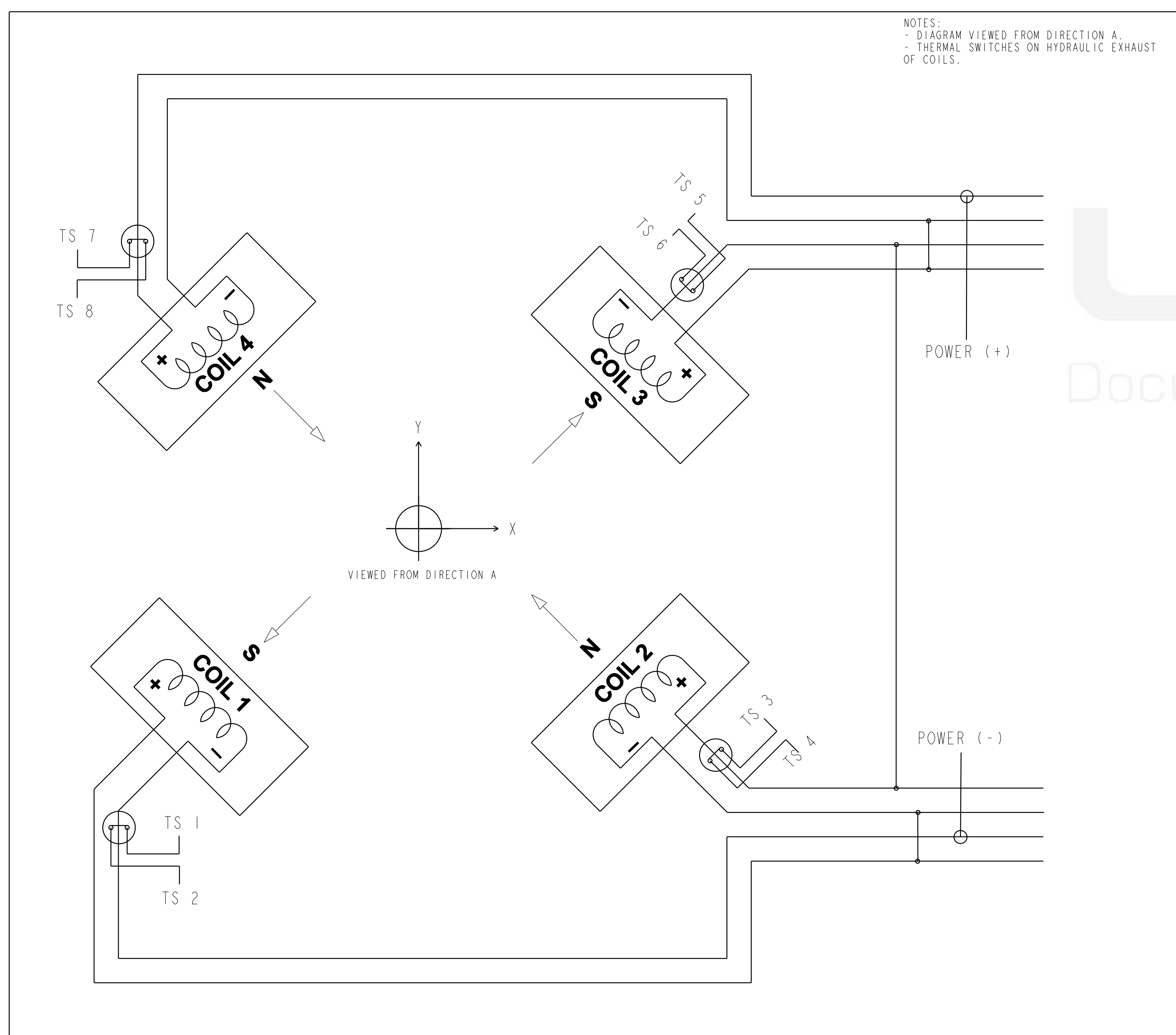


TQDC DRAWING TREE	
DRAWING DESCRIPTION	DRAWING NUMBER
BTA QUAD COMMON FAMILY SPACECLAIM INTERFACE DRAWING	AL-1405-0939
YOKE PRE-ASSY, TQDC/TQFE	AL-1298-3909
BASEPLATE, TQDC/TQFE	AL-1310-0170

CHANGE DESCRIPTION (SEE LBNL PDM FOR REV HISTORY)		UNLESS OTHERWISE SPECIFIED		PROJECT NAME		ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY UNIVERSITY OF CALIFORNIA	
BASELINE RELEASE		ESTIMATED MASS 136.358 KG		ADVANCED LIGHT SOURCE		ALS-U - BOOSTER TO ACCUMULATOR TRANSFER LINE	
AUTHOR Szezeri, Sultan		TOLERANCE FRACTIONS: ±.05		DRAW REF DOC EG-1000-0923		MAGNETS - GENERAL	
CHECKED BY mmorden		ANGLES: ±1°		DRAWING UNITS mm/kg/s		TQDC MAGNET ASSY	
CHECKED AT Apr 16 2021 10:58:48 AM PDT		MACH. SURFS: ±3.2um ✓ or better		SCALE 1:2		CATEGORY CODE	
RELEASED BY CASwenson		REFERENCE THREADS ARE CLASS G or H		THIRD ANGLE		LIFE/CYCLE STATE	
RELEASED AT Apr 21 2021 9:51:20 AM PDT		BREAK EDGES 0.5 MAX, ON MACHINED WORK		SHEET SIZE E		ITEM NUMBER	
THIS DRAWING IS THE PROPERTY OF ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY (LBNL) AND ANYTHING PRODUCED FROM THIS DRAWING IS SUBJECT TO LBNL'S INTELLECTUAL PROPERTY RIGHTS. THIS DRAWING IS LOANED ON A CONFIDENTIAL BASIS SUBJECT TO RETURN OR LBNL AND NOTHING HEREIN MAY BE REPRODUCED, USED OR DISCLOSED IN WHOLE OR IN PART WITHOUT PRIOR WRITTEN PERMISSION OF LBNL.		REMOVE BUBBLES, WELD SPLATTER & LOOSE SCALE		1 OF 2		AL7210 Released AL-1248-7953 A	



### MAIN COIL ELECTRIC CIRCUIT CONNECTION DIAGRAM



CORRECTOR COIL AND THERMAL SWITCH ELECTRICAL CIRCUIT CONNECTION DIAGRAM

