

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 296.3 KG. (653.25 LBM)

901. DRAWING REPRESENTS MECHANICAL LIMITATIONS OF LEFT YOKE ASSY. FINAL SPECIFICATIONS SATISFYING MAGNETIC AND ENGINEERING REQUIREMENTS, SPECIFIED IN BTA DIPOLE COMMON MECHANICAL REQUIREMENTS DOCUMENT (AL-1462-1396) AND BTA DIPOLE MAGNET-SPECIFIC REQUIREMENTS DOCUMENT (AL-1471-4086), TO BE DETERMINED BY VENDOR.

902. FEATURES NOT EXPLICITLY SPECIFIED ARE SUBJECT TO VENDOR SPECIFICATION AND LBNL APPROVAL. HOLES NOT SPECIFIED ARE REFERENCE MOUNTING FEATURES FOR ITEMS CONTROLLED ONLY BY SPACECLAMS.

903. WELD SIZES NOT SPECIFIED TO BE DETERMINED BY VENDOR.

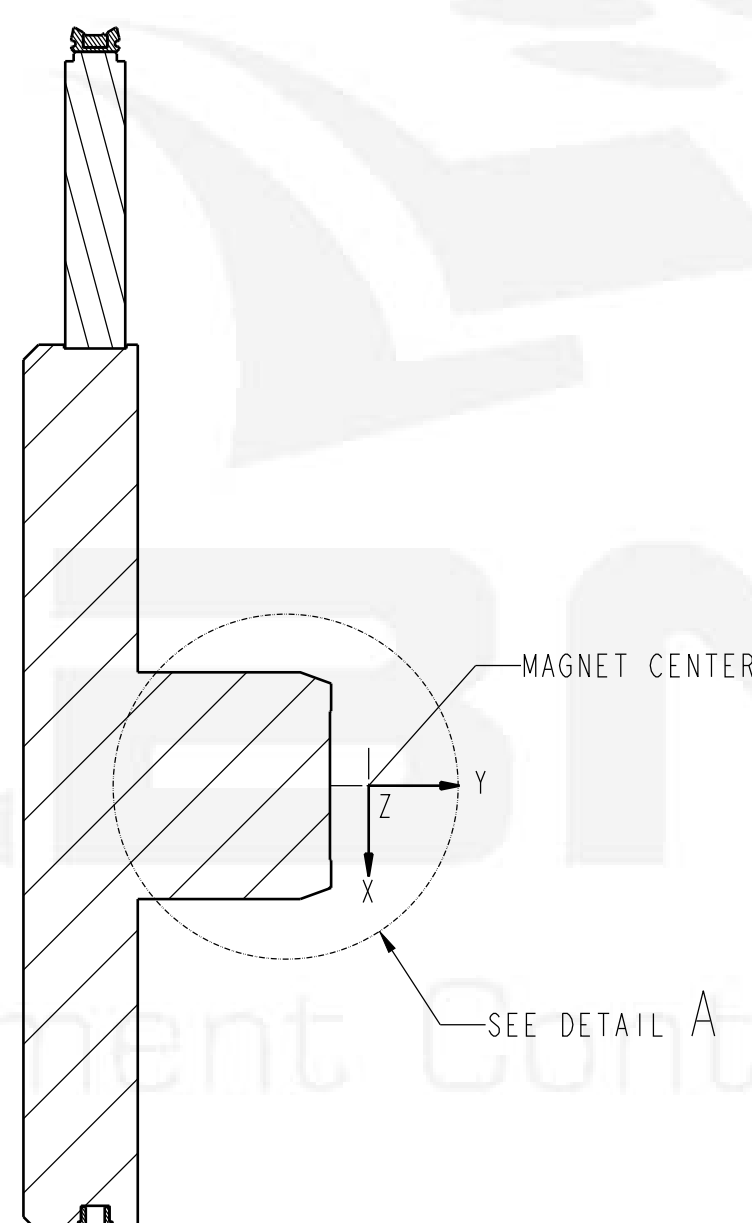
904. RETROREFLECTOR NEST TO BE PURCHASED BY LBNL AND SUPPLIED TO VENDOR.

905a. HOLES MARKED "L" ARE POTENTIAL HOIST RING ATTACHMENT POINTS. IF LIFTING FIXTURE NECESSARY, THEN IT IS TO BE DESIGNED BY VENDOR. LIFTING FIXTURE MUST FIT WITHIN FOOTPRINT OF MAGNET YOKE. ADDITIONAL FEATURES FOR LIFTING FIXTURE SUBJECT TO LBNL APPROVAL.

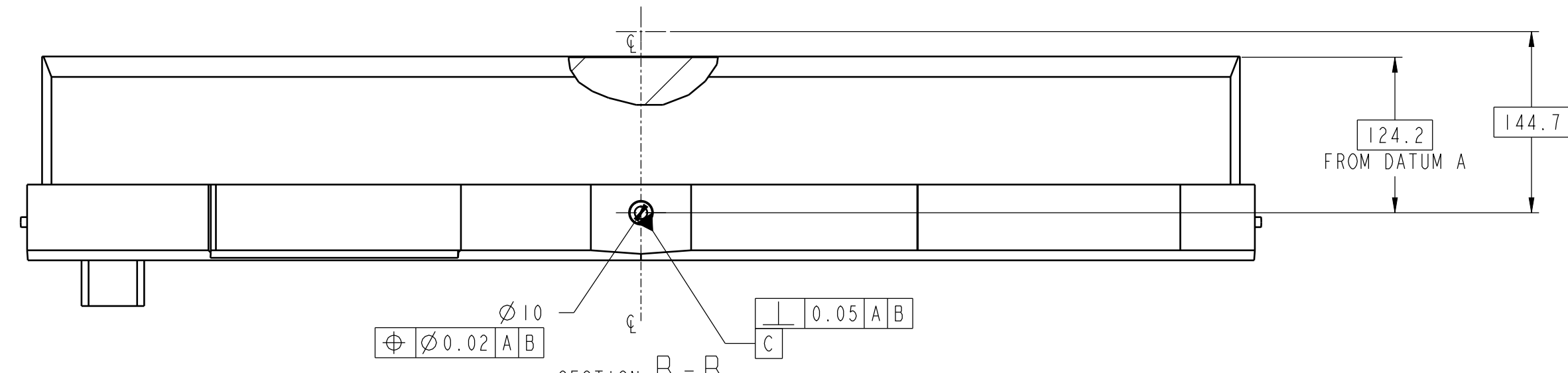
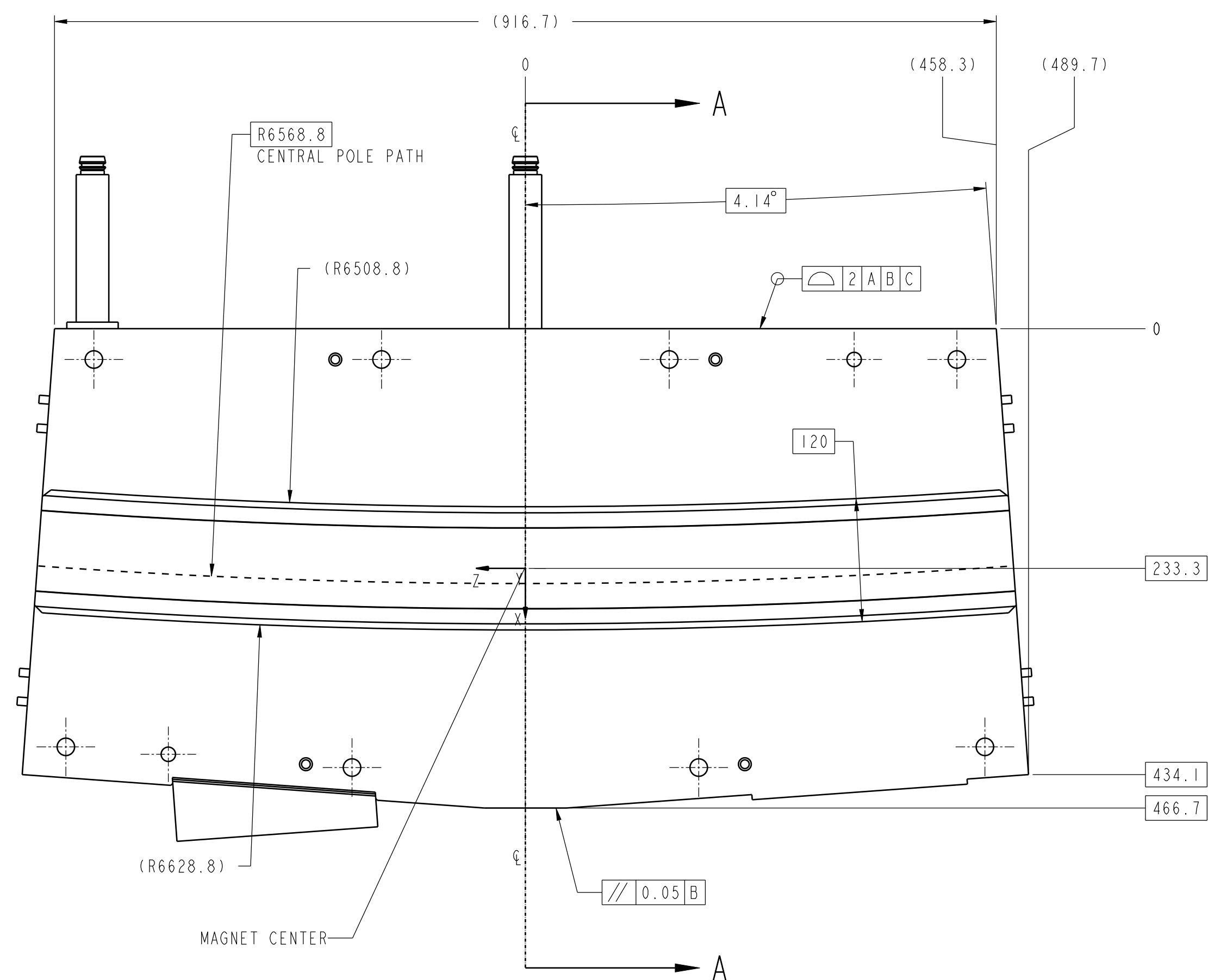
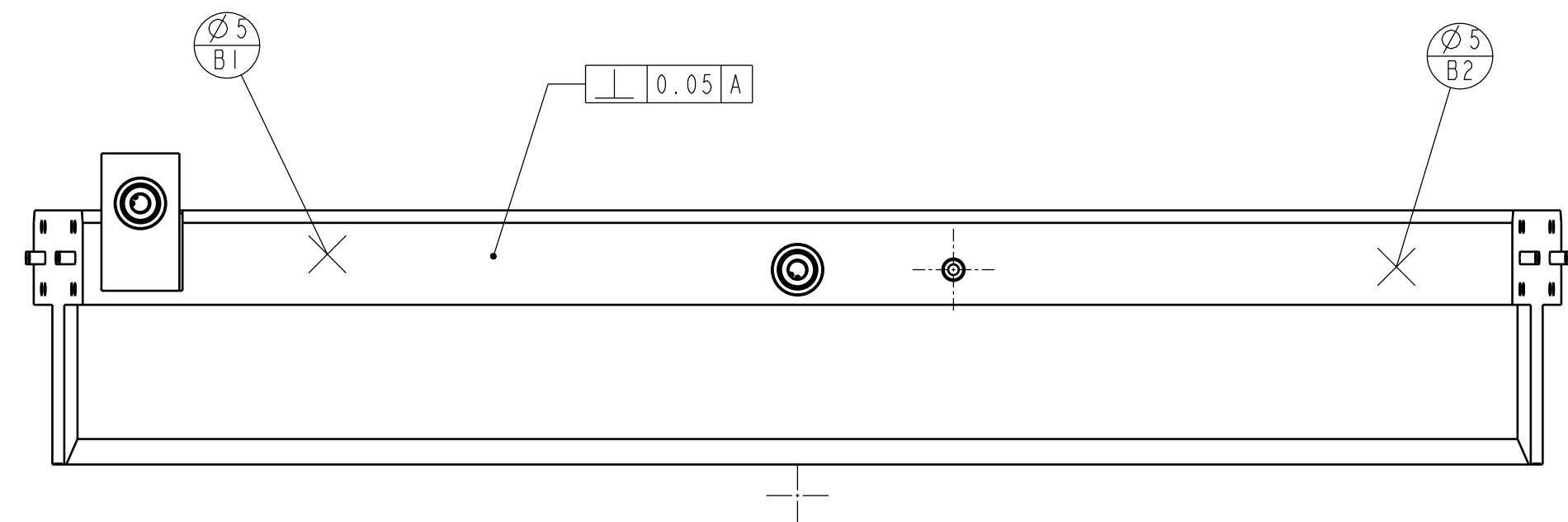
905b. HOLES MARKED "D" ARE LEFT YOKE ASSY AND RIGHT YOKE ASSY ALIGNMENT FEATURES. HOLES AND ALIGNMENT FEATURES TO BE DESIGNED BY VENDOR, APPROVED BY LBNL. FEATURES MUST SATISFY MULTIPOLE AND ALIGNMENT REQUIREMENTS (SEE BTA DIPOLE COMMON MECHANICAL REQUIREMENTS DOCUMENT). SEE AL-1252-2525 FOR FEATURE MOUNTING AND ALIGNMENT PROCESS DEFINITION.



906. SUPPORT EXTRUSION FEATURES MARKED "S". EXTRUSION FEATURES MAY BE CONTINUATION OF YOE OR CARBON STEEL BLOCKS WELDED TO YOKE. FINAL MACHINING TO BE DONE AT MAGNET ASSEMBLY LEVEL. SEE AL-1252-2525.

908. HOLES MARKED "E" ARE PILOT HOLES BACKING MAGNET DIS-ASSEMBLY THREADED GUIDE RODS. HOLE LOCATION AND SPECIFICATION TO BE DETERMINED BY VENDOR, APPROVED BY LBNL.

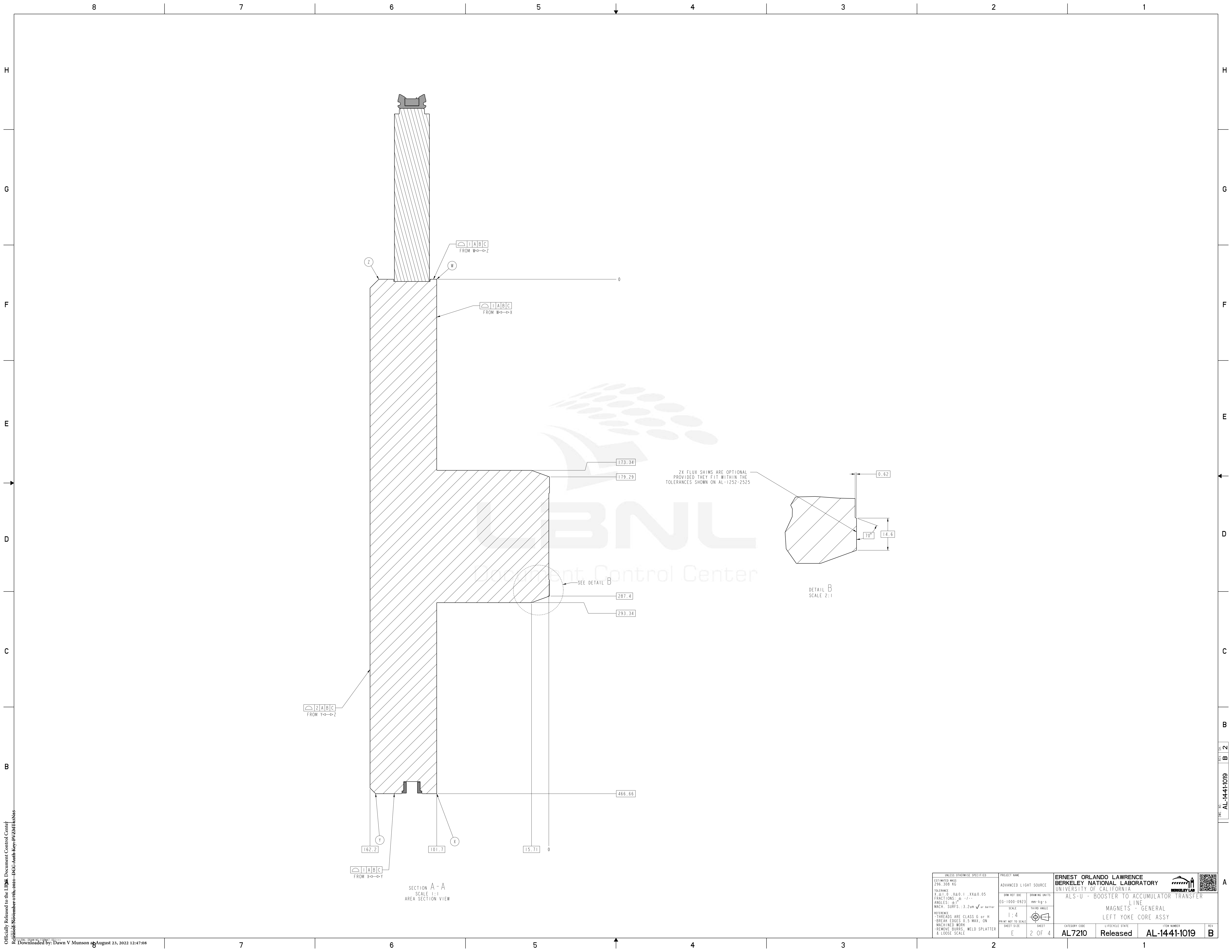


SECTION A-A
AREA SECTION VIEW
SEE SHEET 2 FOR CROSS-SECTION SPECIFICATION



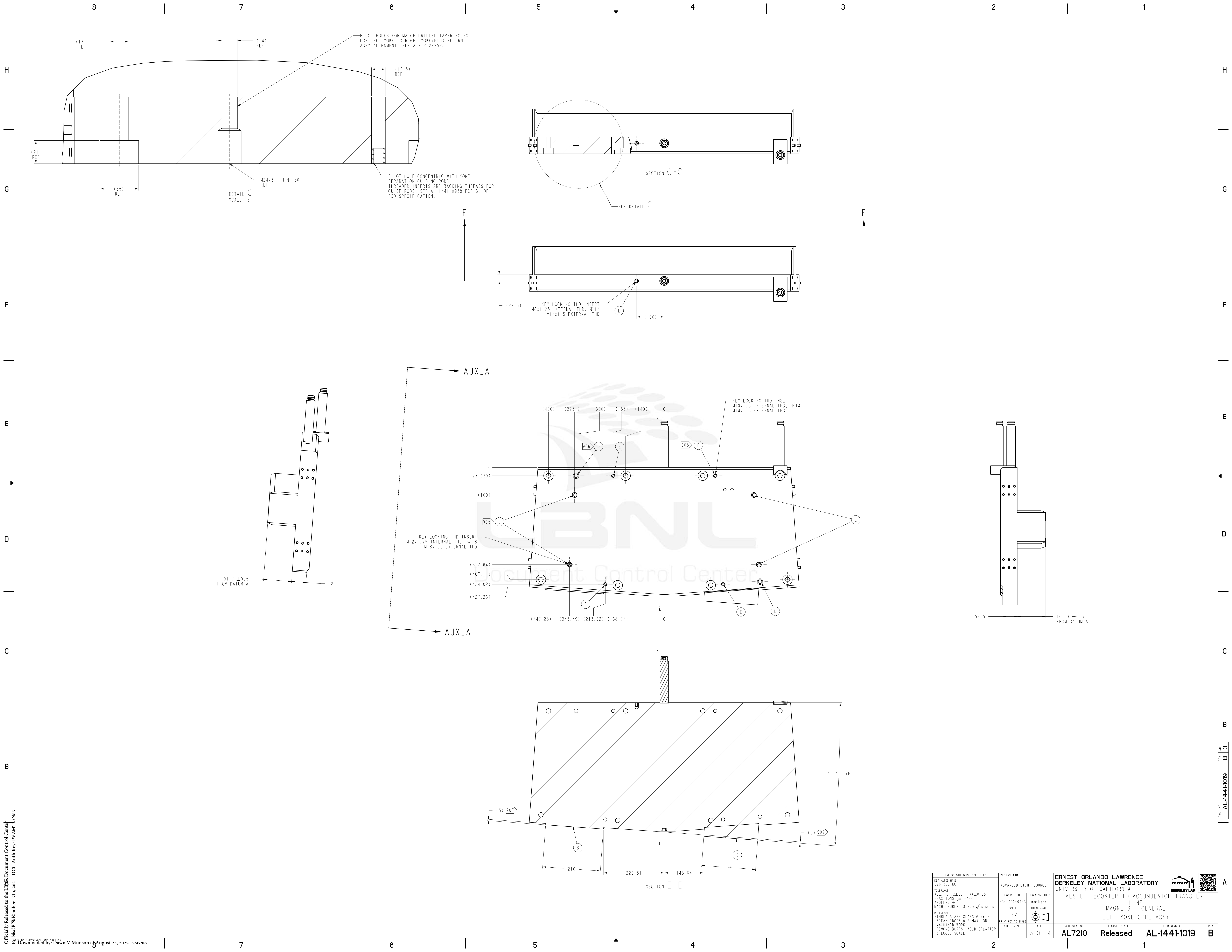
ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY UNIVERSITY OF CALIFORNIA	 
ALS-U - BOOSTER TO ACCUMULATOR TRANSFER LINE	
MAGNETS - GENERAL	
LEFT YOKE CORE ASSY	

[illegible]



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UNLESS OTHERWISE SPECIFIED		PROJECT NAME		ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY UNIVERSITY OF CALIFORNIA	
ESTIMATED MASS 296,308 KG		ADVANCED LIGHT SOURCE		ALS-U - BOOSTER TO ACCUMULATOR TRANSFER	
TOLERANCE X ± 0.1, XX ± 0.05		DWG REF DOC	DRAWING UNITS	MAGNETS - GENERAL	
FRACTIONS: 1/16, 1/32, 1/64		EG-1000-0923	mm-Kg-S	LEFT YOKE CORE ASSY	
ANGLES: ± 1°		SCALE	THIRD ANGLE	CATEGORY CODE	
MACH. SURFS: 3.2um ✓ or better		1:4	THIRD ANGLE	LIFECYCLE STATE	
REFERENCE - THREADS ARE CLASS G or H		PRINT NOT TO SCALE	SHEET	ITEM NUMBER	
- BREAK EDGES 0.5 MAX, ON		E	2 OF 4	AL-1441-1019	
- MACHINED WORK				Released	
- REMOVE BURRS, WELD SPLATTER				REV B	
& LOOSE SCALE					



UNLESS OTHERWISE SPECIFIED		PROJECT NAME		ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY	
ESTIMATED MASS 296.308 KG		ADVANCED LIGHT SOURCE		UNIVERSITY OF CALIFORNIA	
TOLERANCE X ± 0.1, XX ± 0.05		DRAWING UNITS		ALS-U - BOOSTER TO ACCUMULATOR TRANSFER	
FRACTIONS: 1/8, 1/4, 1/2, 3/4, 5/8, 3/16, 1/32		EG-1000-0923		MAGNETS - GENERAL	
ANGLES: ± 1°		SCALE		LEFT YOKE CORE ASSY	
MACH. SURFS: 3.2um ✓ or better		1:4		CATEGORY CODE	
REFERENCE - THREADS ARE CLASS G or H - BREAK EDGES 0.5 MAX, ON - MACHINED WORK - REMOVE BURRS, WELD SPLATTER - & LOOSE SCALE		THIRD ANGLE		LIFECYCLE STATE	
SHEET SIZE		E		Released	
3 OF 4		SHEET		ITEM NUMBER	
AL7210		AL-1441-1019		REV	
B		B		B	

