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 601.333 KG.

901. DRAWING REPRESENTS MECHANICAL LIMITATIONS OF YOKE PRE-ASSY. FINAL SPECIFICATIONS SATISFYING MAGNETIC AND ENGINEERING REQUIREMENTS, SPECIFIED IN MECHANICAL REQUIREMENTS DOCUMENT, 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 SPACECLAIMS.

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

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

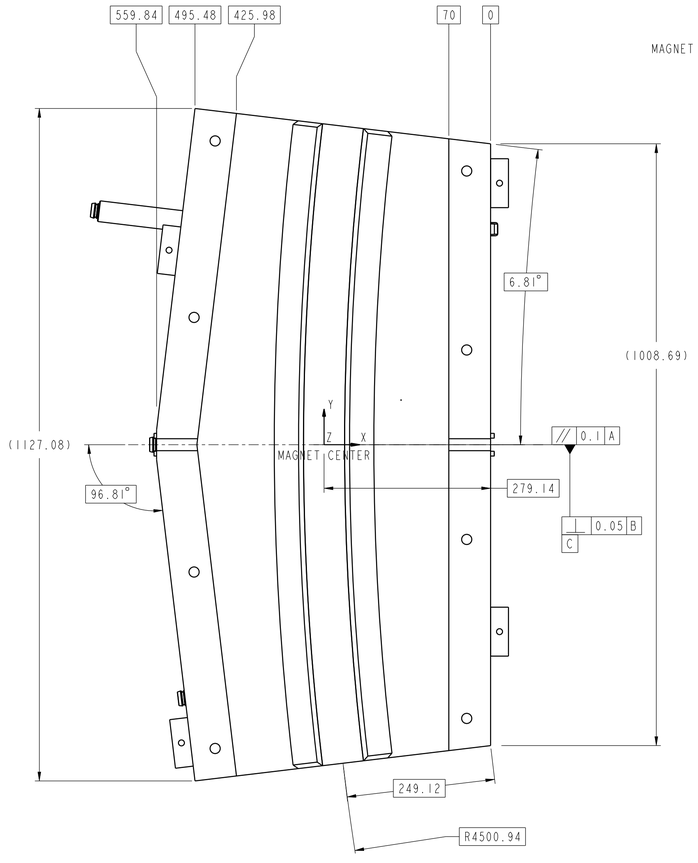
905. FEATURES MARKED "S" ARE FOR 16 MM DIAMETER HEIGHT LEVELLING STUDS. PLATE DESIGN MUST ALLOW FOR FULL RANGE OF 8 MM DIAMETRAL PLANAR MOTION.

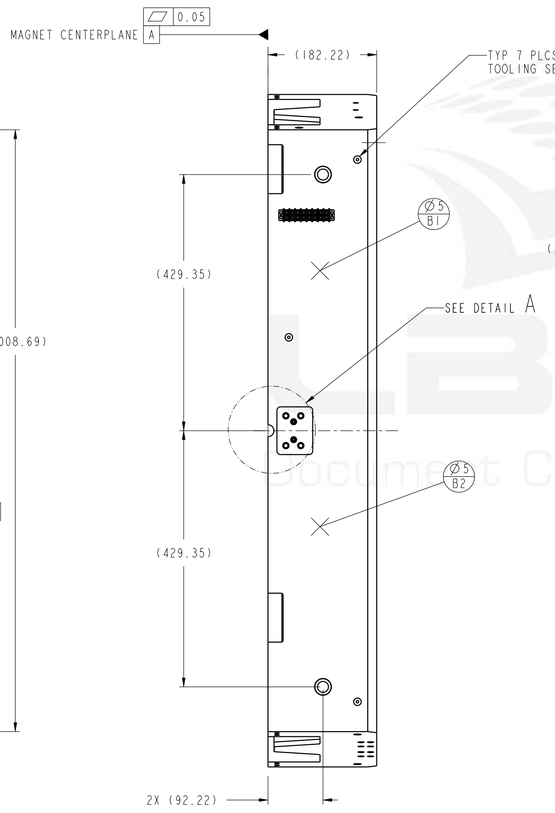
906. HOLES MARKED "L" ARE POTENTIAL HOIST RING ATTACHMENT POINTS. IF LIFTING FIXTURE NECESSARY, THEN IT IS TO BE DESIGNED BY VENDOR. LIFTING FIXTURE MUST FIT WITHIN FOOTPRINT OF MAGNET YOKE. ADDITIONAL FEATURES FOR LIFTING FIXTURE SUBJECT TO LBNL APPROVAL.

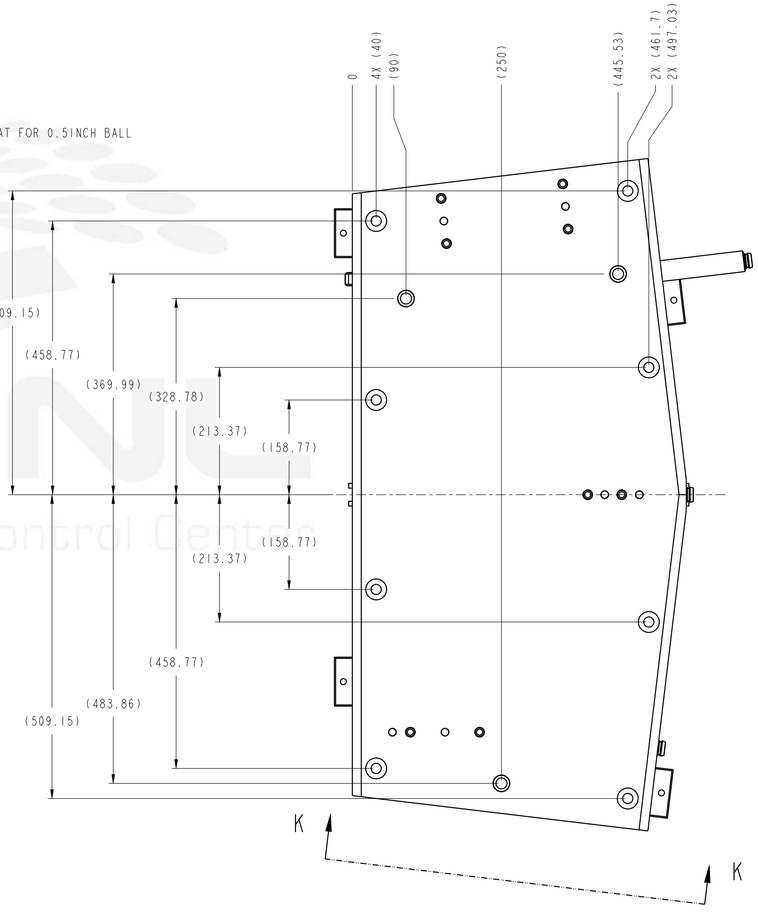
907. FEATURES ENCLOSED IN SPLINES MARKED "D" ARE YOKE ALIGNMENT FEATURES TO BE DESIGNED BY VENDOR. ALIGNMENT FEATURES MUST SATISFY MULTIPOLE AND ALIGNMENT REQUIREMENTS SPECIFIED IN MECHANICAL REQUIREMENTS DOCUMENT, AND FIT WITHIN YOKE FOOTPRINT.

908. HELICAL INSERT, PHOSPHOR BRONZE

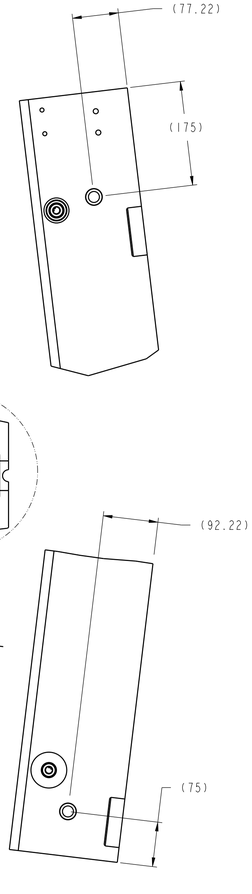
909. HATCHED REGIONS LABELED "U" ARE UNPAINTED AREAS. FLATNESS AND SURFACE FINISH SPECS TYP FOR ALL REGIONS LABELED "U". SEE MECHANICAL REQUIREMENTS DOCUMENT FOR DETAILS.







PROJECTION A



PROJECTION B

CHANGE DESCRIPTION (SEE LBNL PDM FOR REV HISTORY)	SUPPORT INTERFACE ROUGH ALIGN PIN HOLES ADDED.
AUTHOR	Soezeri, Sultan
CHECKED BY	CASwenson
CHECKED AT	Nov 17 2021 8:28:53 AM PST
RELEASED BY	CASwenson
RELEASED AT	Nov 23 2021 11:32:44 AM PST

UNLESS OTHERWISE SPECIFIED

ESTIMATED MASS
601.333 KG

TOLERANCE
X.±1.0 .X±0.1 .XX±0.05
FRACTIONS: ± -/--
ANGLES: ±1°
MACH. SURFS.: 3.2um ✓ or better

REFERENCE
-THREADS ARE CLASS G or H
-BREAK EDGES 0.5 MAX, ON MACHINED WORK
-REMOVE BURRS, WELD SPLATTER & LOOSE SCALE

PROJECT NAME: ADVANCED LIGHT SOURCE

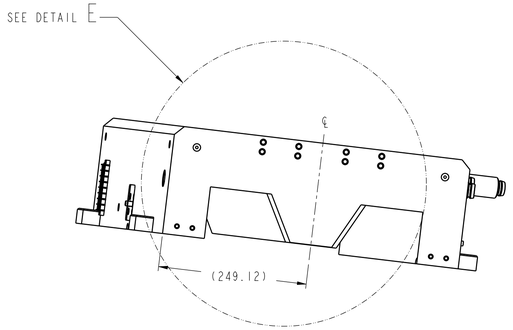
ERNEST ORLANDO LAWRENCE
BERKELEY NATIONAL LABORATORY
UNIVERSITY OF CALIFORNIA

DRW REF DOC	EG-1000-0923
DRAWING UNITS	mm-kg-s
SCALE	1:5
THIRD ANGLE	
PRINT NOT TO SCALE	
SHEET SIZE	D
SHEET	1 OF 4

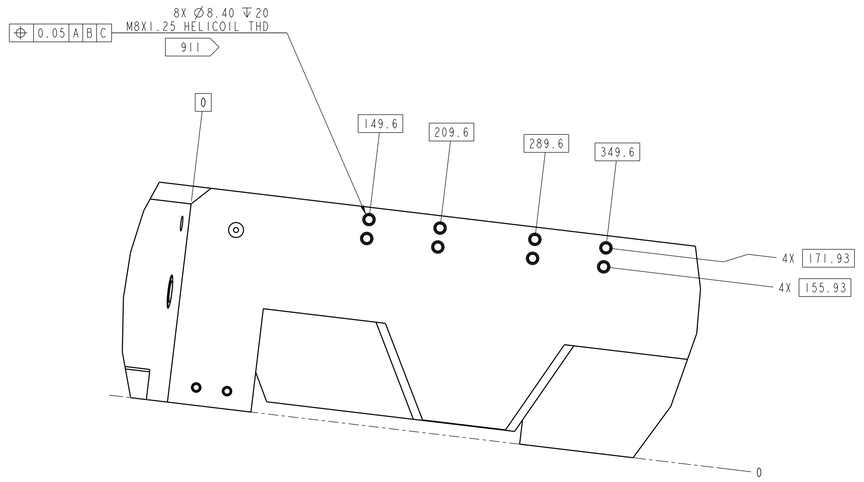
ALS-U - BOOSTER TO ACCUMULATOR TRANSFER LINE
MAGNETS - GENERAL
TBENDC BOTTOM YOKE ASSEMBLY

CATEGORY CODE	LIFECYCLE STATE	ITEM NUMBER	REV
AL7210	Released	AL-1259-1982	B

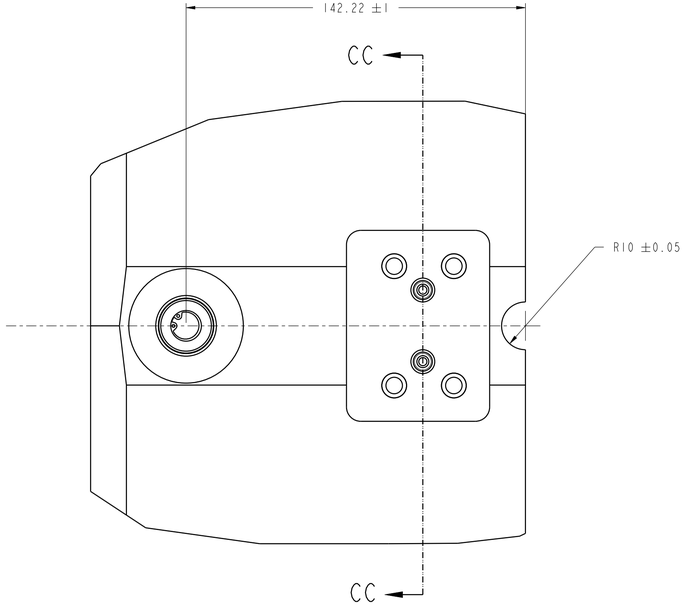
REV: B SH: 1
DWG NO: AL-1259-1982



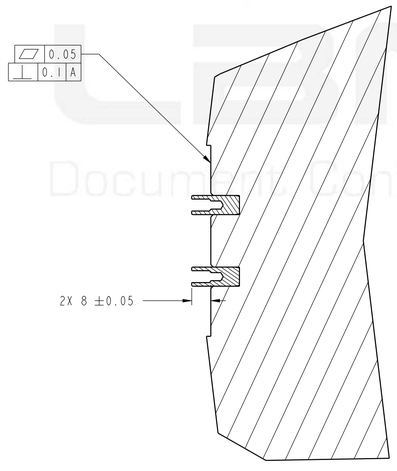
VIEW K-K



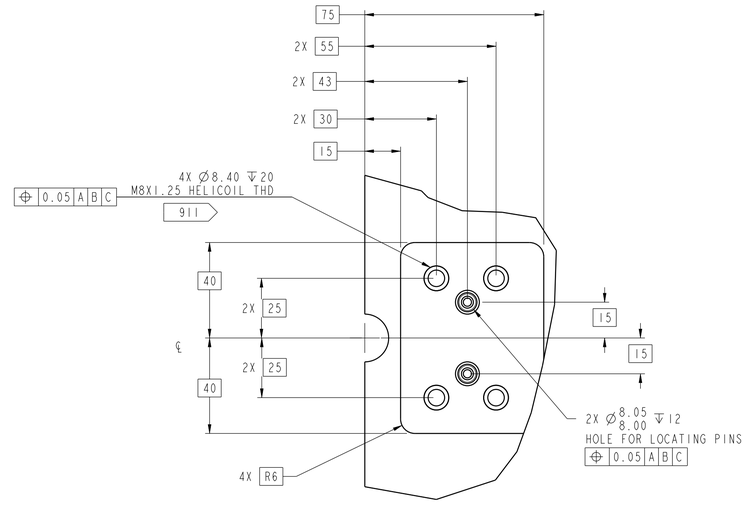
DETAIL E
SCALE 1:2.5



DETAIL B
SCALE 1:1.25



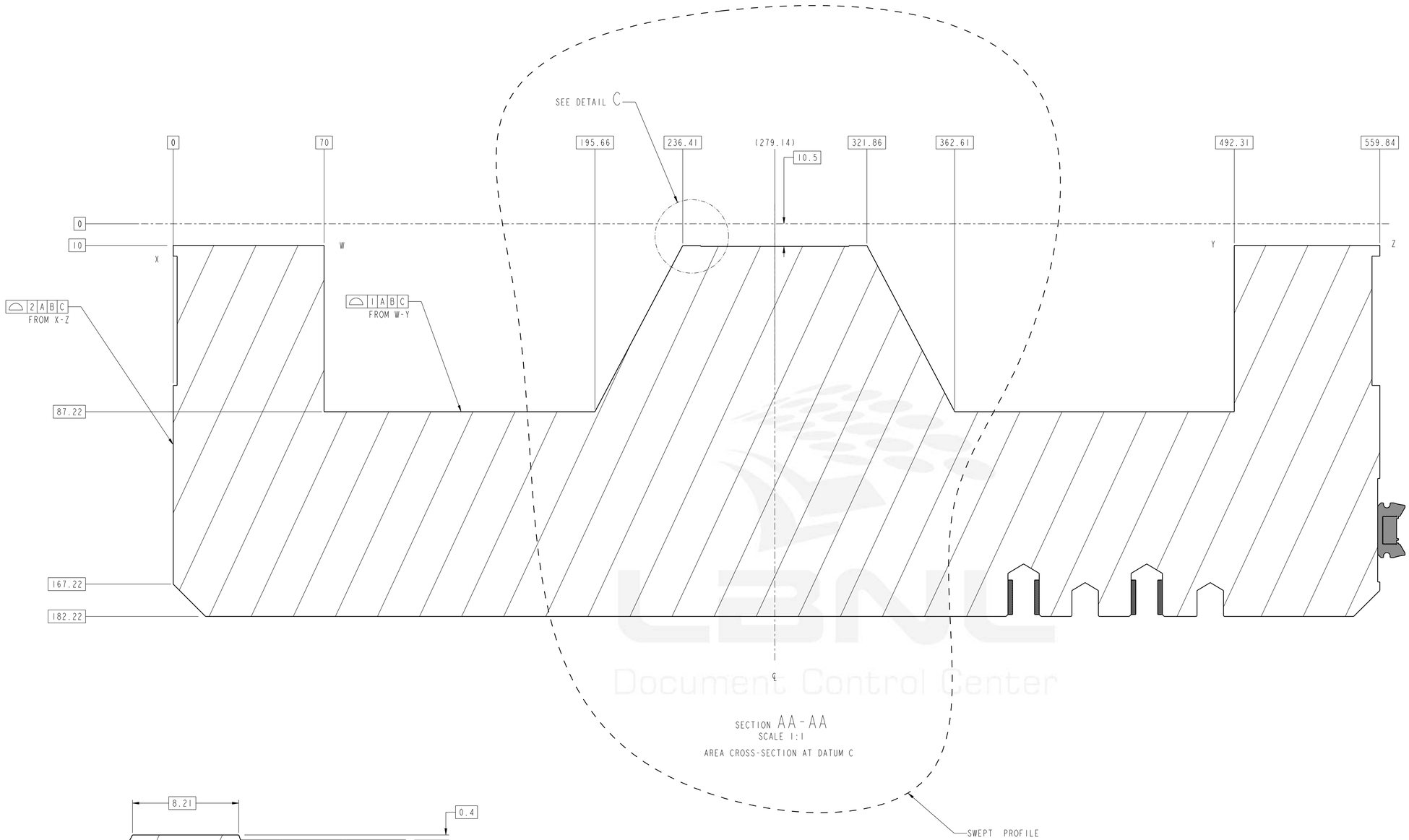
SECTION CC-CC



DETAIL A
SCALE 1:1.25

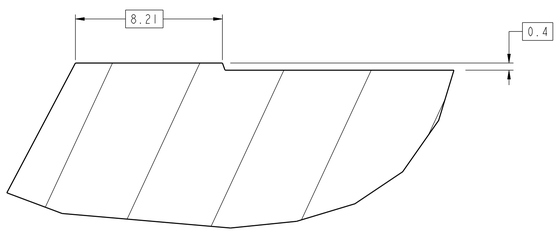
UNLESS OTHERWISE SPECIFIED ESTIMATED MASS 601.333 KG TOLERANCE X.±1.0 , X±0.1 , XX±0.05 FRACTIONS: ± -/-- ANGLES: ±1° MACH. SURFS.: 3.2um ✓ or better REFERENCE -THREADS ARE CLASS G or H -BREAK EDGES 0.5 MAX, ON MACHINED WORK -REMOVE BURRS, WELD SPLATTER & LOOSE SCALE	PROJECT NAME ADVANCED LIGHT SOURCE DRW REF DOC: EG-1000-0923 DRAWING UNITS: mm-kg-s SCALE: 1:5 PRINT NOT TO SCALE THIRD ANGLE SHEET SIZE: D SHEET: 2 OF 4	ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY UNIVERSITY OF CALIFORNIA BERKELEY LAB ALS-U - BOOSTER TO ACCUMULATOR TRANSFER LINE MAGNETS - GENERAL TBENDC BOTTOM YOKE ASSEMBLY	
		CATEGORY CODE: AL7210	LIFECYCLE STATE: Released
		ITEM NUMBER: AL-1259-1982	REV: B

REV | SH: B 2
DWG. NO: AL-1259-1982



SECTION AA-AA
SCALE 1:1
AREA CROSS-SECTION AT DATUM C

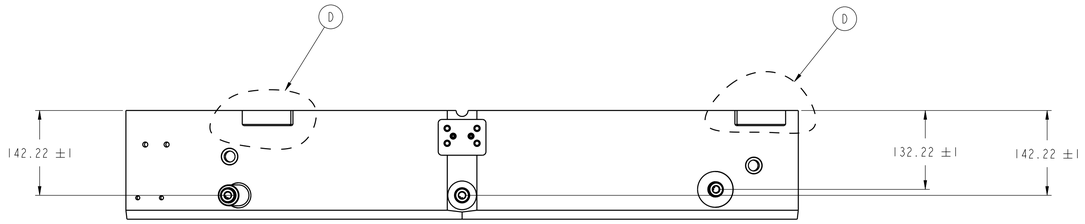
SWEPT PROFILE

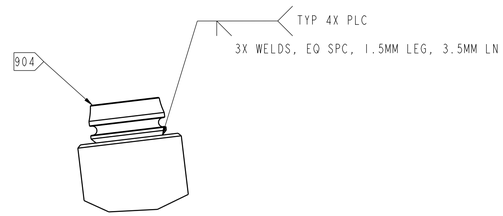


DETAIL C
SCALE 6:1

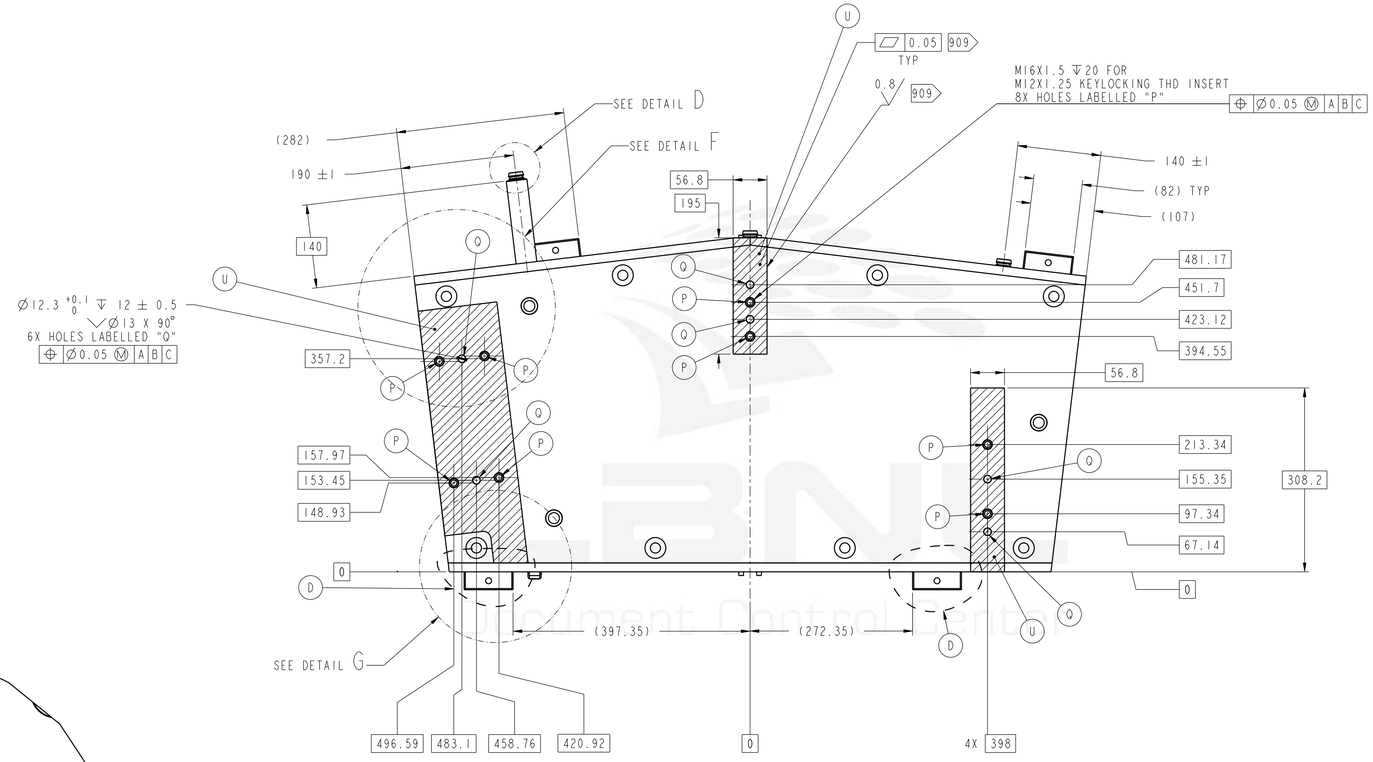
UNLESS OTHERWISE SPECIFIED	PROJECT NAME	ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY UNIVERSITY OF CALIFORNIA	
ESTIMATED MASS 601.333 KG	ADVANCED LIGHT SOURCE		
TOLERANCE X.±1.0 , X±0.1 , XX±0.05 FRACTIONS: ± -/-- ANGLES: ±1° MACH. SURFS.: 3.2um ✓ or better	DRW REF DOC: EG-1000-0923	DRAWING UNITS: mm-kg-s	ALS-U - BOOSTER TO ACCUMULATOR TRANSFER LINE MAGNETS - GENERAL TBENDC BOTTOM YOKE ASSEMBLY
REFERENCE -THREADS ARE CLASS G or H -BREAK EDGES 0.5 MAX, ON MACHINED WORK -REMOVE BURRS, WELD SPLATTER & LOOSE SCALE	SCALE: 1:5 PRINT NOT TO SCALE	THIRD ANGLE	
	SHEET SIZE: D	SHEET: 3 OF 4	CATEGORY CODE: AL7210 · LIFECYCLE STATE: Released · ITEM NUMBER: AL-1259-1982 · REV: B

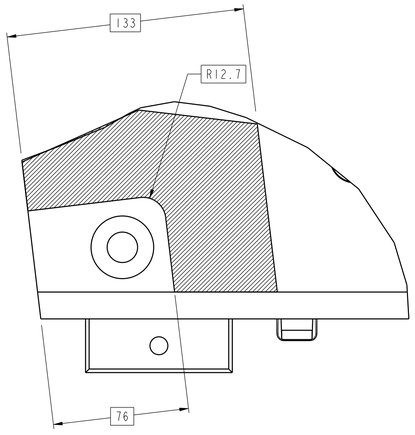
REV | SH: B | 3
DWG NO: AL-1259-1982



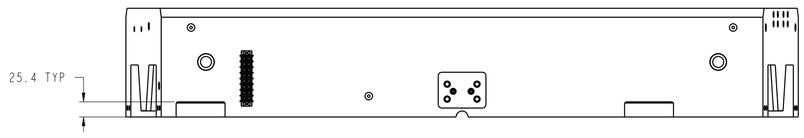


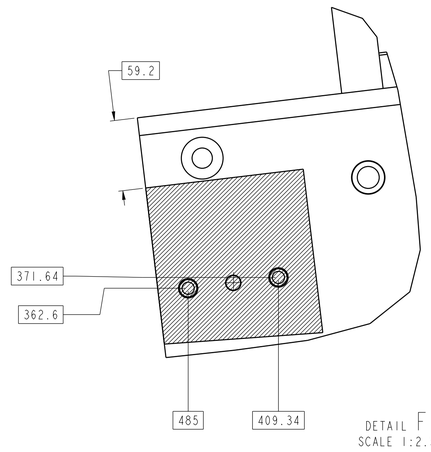
DETAIL D
SCALE 1:1





DETAIL G
SCALE 1:1.667





DETAIL F
SCALE 1:2.5

UNLESS OTHERWISE SPECIFIED ESTIMATED MASS 601.333 KG TOLERANCE X.±1.0 .X±0.1 .XX±0.05 FRACTIONS: ± -/-- ANGLES: ±1° MACH. SURFS.: 3.2um ✓ or better REFERENCE -THREADS ARE CLASS G or H -BREAK EDGES 0.5 MAX, ON MACHINED WORK -REMOVE BURRS, WELD SPLATTER & LOOSE SCALE	PROJECT NAME ADVANCED LIGHT SOURCE	ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY UNIVERSITY OF CALIFORNIA ALS-U - BOOSTER TO ACCUMULATOR TRANSFER LINE MAGNETS - GENERAL TBENDC BOTTOM YOKE ASSEMBLY	
	DRW REF DOC: EG-1000-0923 / DRAWING UNITS: mm-kg-s SCALE: 1:5 / THIRD ANGLE PRINT NOT TO SCALE SHEET SIZE: D / SHEET: 4 OF 4	CATEGORY CODE: AL7210	LIFECYCLE STATE: Released ITEM NUMBER: AL-1259-1982 REV: B

REV | SH.: B 4
DWG. NO.: AL-1259-1982