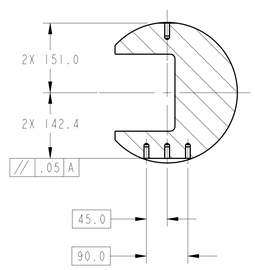
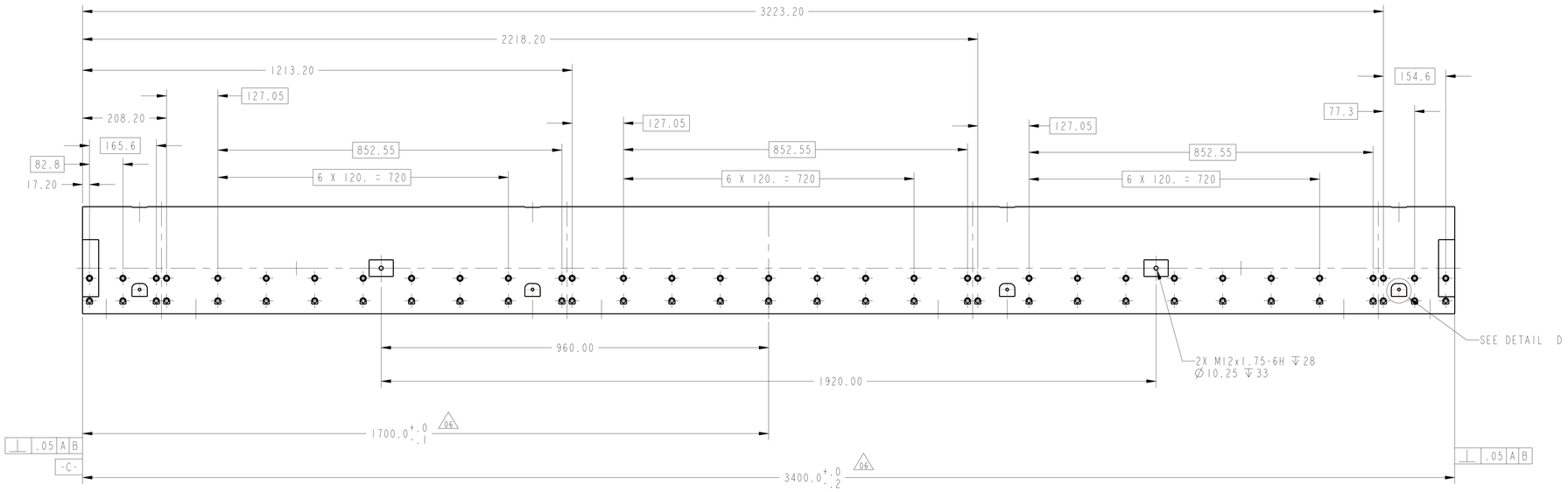
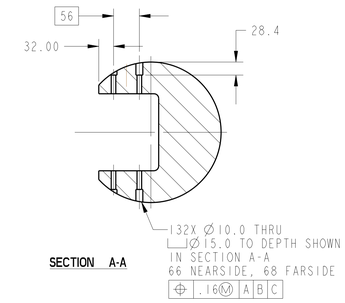
REVISIONS					
ZONE	REV	DESCRIPTION	BY	APPROVED	DATE
	01	REFER TO DCN #050104-03	TLG		01/04/05
	02	REFER TO DCN #050131-13	TLG		02/01/05
	03	REFER TO DCN #050225-01	DC		02/25/05
	04	REFER TO DCN #050426-02	DC		04/26/05
	05	REFER TO DCN #050825-03	TLG		08/25/05
	06	REFER TO DCN #050916-04	TLG		09/16/05
	07	REFER TO DCN #050921-07	TLG		09/21/05
	08	REFER TO DCN #060514-05	DC		05/15/06

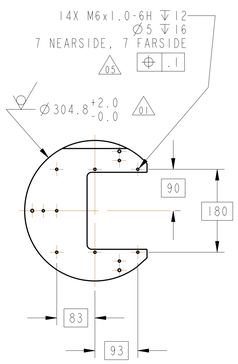


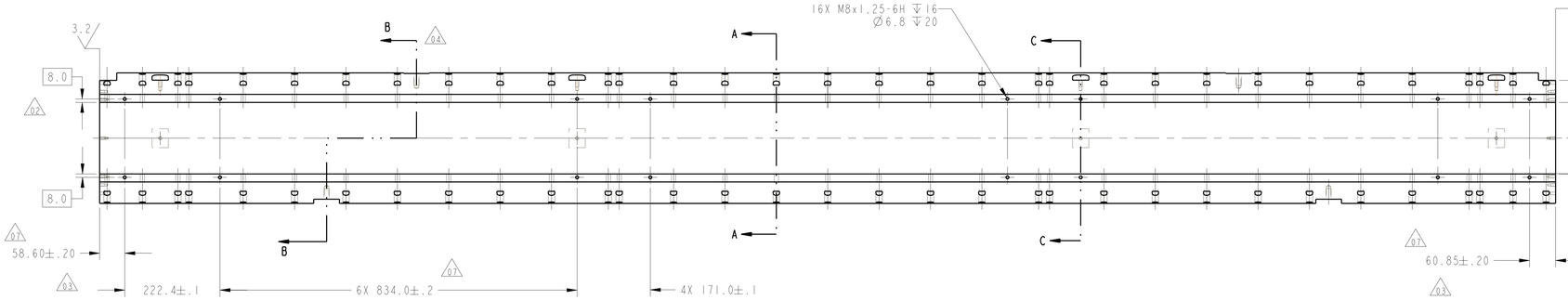
SECTION B-B

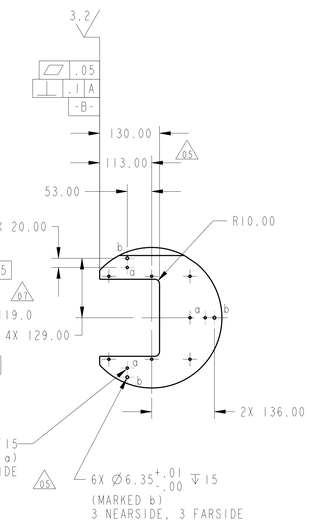


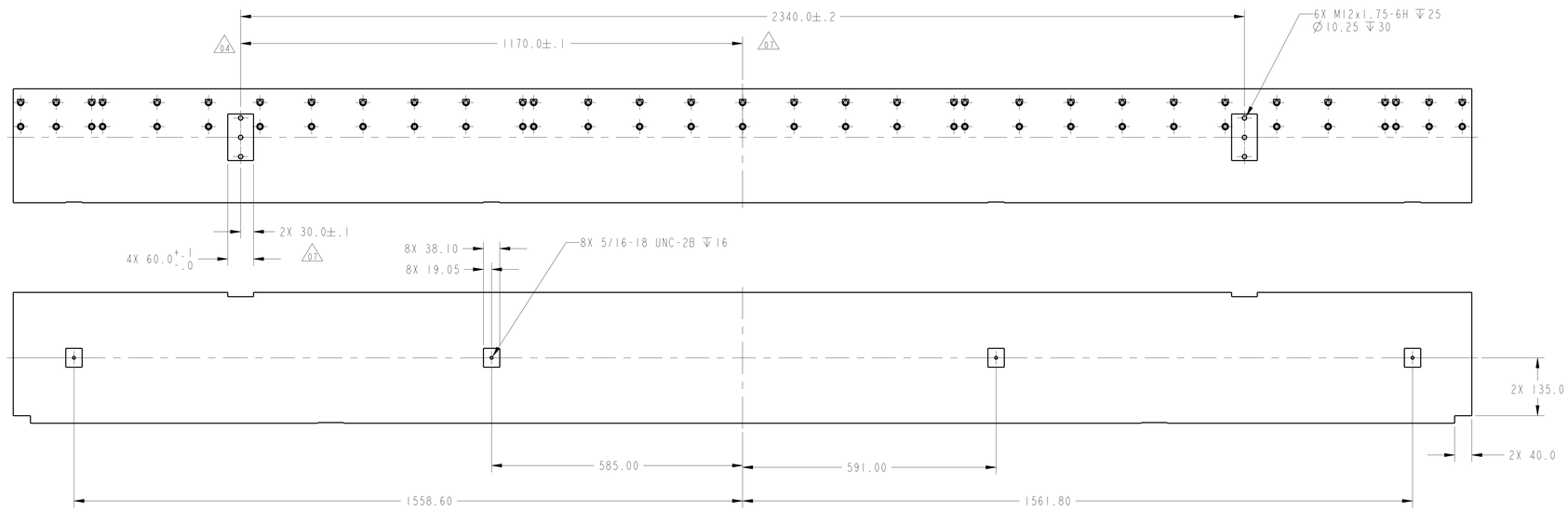


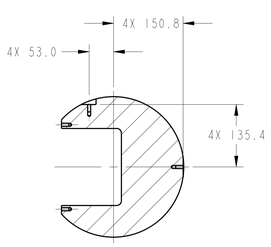
SECTION A-A



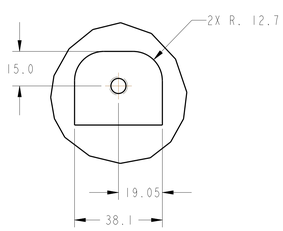








SECTION C-C



TYPICAL 4 PLACES

DETAIL D
SCALE 1.000

NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS, SURFACE FINISH IN MICRONS.
2. REMOVE ALL BURRS AND BREAK SHARP EDGES 0.3mm MAX.
3. UNLESS OTHERWISE SPECIFIED, SURFACE FINISH TO BE 6.4 MICRONS.

ITEM	DRAWING / PART NUMBER	NOMENCLATURE OR DESCRIPTION	MATERIAL / SPEC	QTY

PARTS LIST / BILL OF MATERIALS

UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN mm. (INCHES ARE FOR REFERENCE ONLY) TOLERANCES: DECIMALS ± 0.5 mm, .X ± 0.25 mm, .XX ± 0.08 mm; ANGULAR ± 0.5°; SURFACE FINISH IN MICRONS 1.6

REMOVE ALL BURRS AND BREAK SHARP EDGES .76 MAX. SURFACE TEXTURE IN ACCORDANCE WITH LATEST ASME B46.1-2002 DIMENSIONING AND TOLERANCING IN ACCORDANCE WITH LATEST ASME Y14.5M-1994

MODEL NAME: L143-110700

ELECTRONIC FILE NAME: A3675808

FINAL ENTRIES (OPTIONAL): LCLS_UND_MAG_STRBK_MACH

DRAWN BY: T. GRABINSKI — DATE: 17-Aug-04
PJD GROUP LEADER: P. DEN HARTOG — DATE:
REVIEWED BY: T. GRABINSKI — DATE: 17-Aug-04
RESPONSIBLE ENGINEER: E. TRAKHTENBERG — DATE:
CAD: M. WHITE — DATE:
CLS MANAGER: S. V. MILTON — DATE:
RELEASE STATUS: PENDING — MODEL REV: 0 — DRAW. REV: 0
MATERIAL DESCRIPTION: ASTM B381 F2 TITANIUM GRADE 2

THIS DRAWING IS THE PROPERTY OF:
ARGONNE NATIONAL LABORATORY
ADVANCED PHOTON SOURCE
LINAC COHERENT LIGHT SOURCE
UNDULATOR SYSTEM

UNDULATOR UNIT ASSEMBLY
MAGNET STRUCTURE
UNDULATOR MAGNET ASSEMBLY
STRONGBACK MACHINING

SIZE: E — ALL DRAWING NUMBER: L143-110700 — ALL DRAWING NUMBER: PF-381-000-86 — REV: 08
SCALE: 0.200 — DO NOT SCALE DRAWING — SHEET 1 OF 1