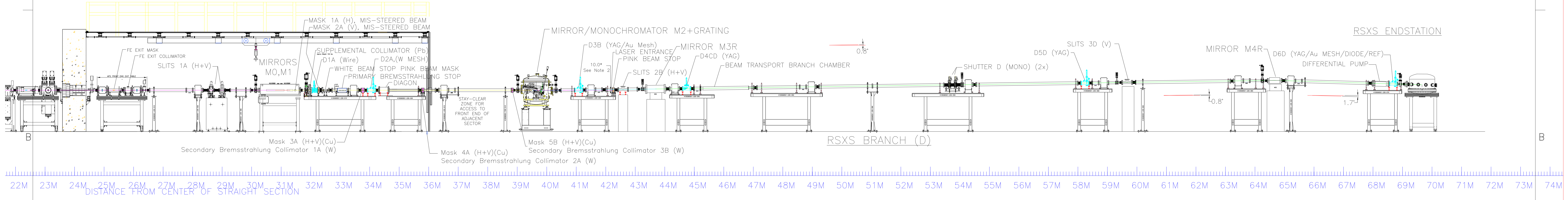
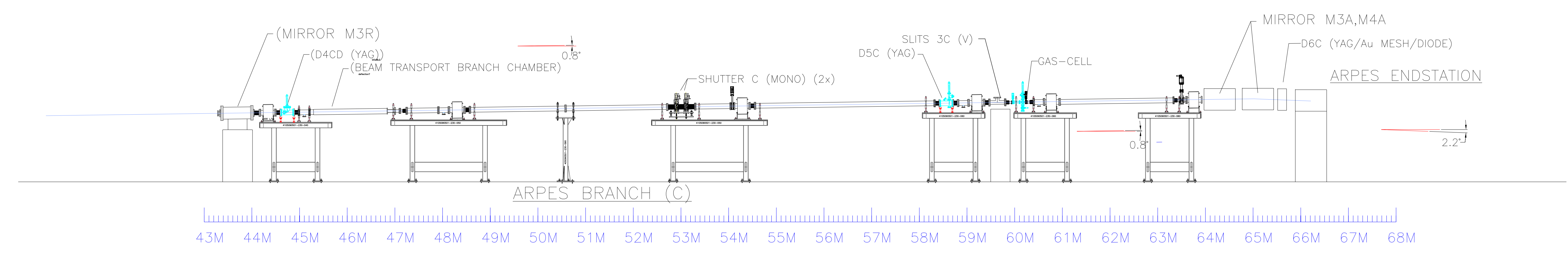
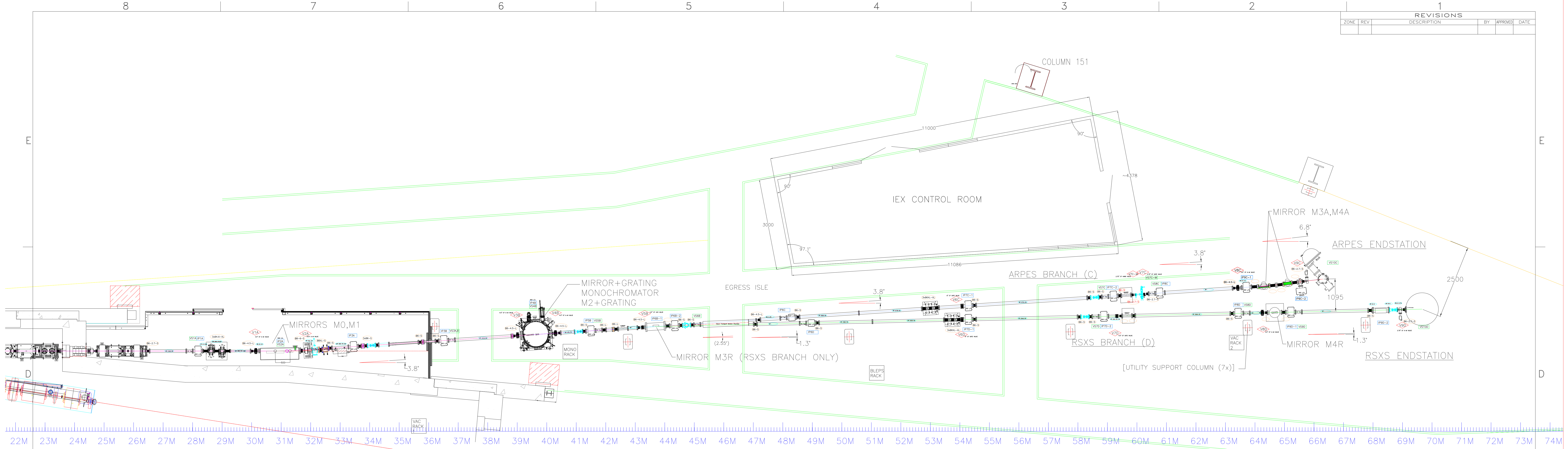


REVISIONS			
ZONE	REV	DESCRIPTION	DATE



Notes:

1) Caution: Vacuum forces produced by in-line bellows can be in excess of several hundred pounds. They can easily move heavy components unless they are properly secured to the floor! Before any vacuum pump-down on sections or the entire beamline, appropriate mounting configuration for each component must be verified and if necessary corrected. Only after it is confirmed that all components are safely bolted to prevent shifting, vacuum pump-down may begin.

2) The vertical distance between the center of the pink beam stop FLANGE (bottom of the aperture) to the center of the white/pink beam is 10 mm, provided the pink beam stop is located at 11111 ± 20 mm from the secondary source.

3) M0 M1 chamber is rotated 0.8 degrees from the white beam centerline.

4) Due to the change of separation between M0 and M1, the beam center lines have been moved. The revised location starts at 31.3m from the source. The distance between the mirrors changed from 800mm to 500mm. M0 moved 300mm downstream, and M1 remained at the same distance to the source ($Z=31.3$ mm), but it moved inboard by -4.18906243 mm (X). The shift effects both branches and all components downstream of the first 2 mirrors.

5) Due to the multiple projection angles of the individual beamline branches, this drawing does not represent the exact location of the optics. Refer to the survey and alignment sheet for the exact mirror, slit and end chamber locations.

ITEM	DRAWING / PART NUMBER	NOMENCLATURE OR DESCRIPTION	MATERIAL / SPEC	QTY
PARTS LIST / BILL OF MATERIALS				
UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES.		THIS DRAWING IS THE PROPERTY OF ARGONNE NATIONAL LABORATORY		
TOLERANCES		ADVANCED PHOTON SOURCE		
DECIMALS	ANGULARS	EXPERIMENTAL FACILITIES		
.X ± 1mm	± .50°	BEAMLINE, ID, SECTOR 29		
.XX ± .5mm		IEX BEAMLINE		
.XXX ± 1mm		LAYOUT		
SURFACE ROUGHNESS: $\sqrt{1.6}$		TELETYPE LEVEL:		
REMOVE ALL BURRS AND BEVEL SHARP EDGES TO MAX. SURFACE TEXTURE IN ACCORDANCE WITH LATEST ASME B46.1-2002 DIMENSIONS AND TOLERANCING IN PROGRESSIVE METRIC SYSTEM (MIL-STD-15)		SCALE: See Note		
TELETYPE FILE NAME		DRAWING NUMBER: 4329-200000		
DATE		SHEET 0		