

SBS Design Status

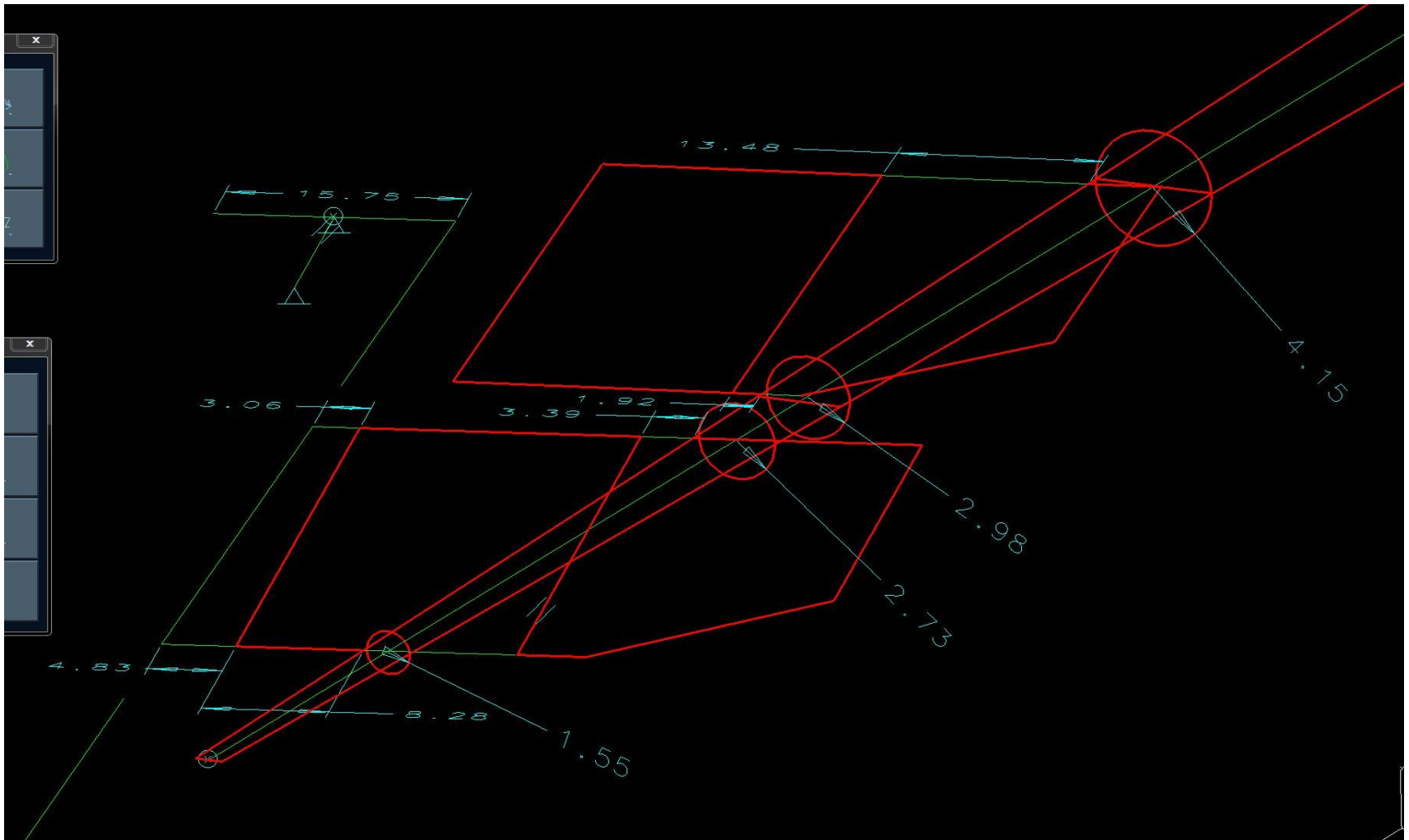
R. Wines

- Tosca magnet analysis with Bogdan
- Beampipe aperture determined
- Magnet iron cutouts for beamline clearance determined
- Starting drawings for new coil design
- Magnet iron cutouts modeled, after confirmed by Tosca analysis, drawings will be started.
- Continuing details of magnet support structure as counterweight.

Beamline Diameter

Distance 1.6m, 15.6 degrees

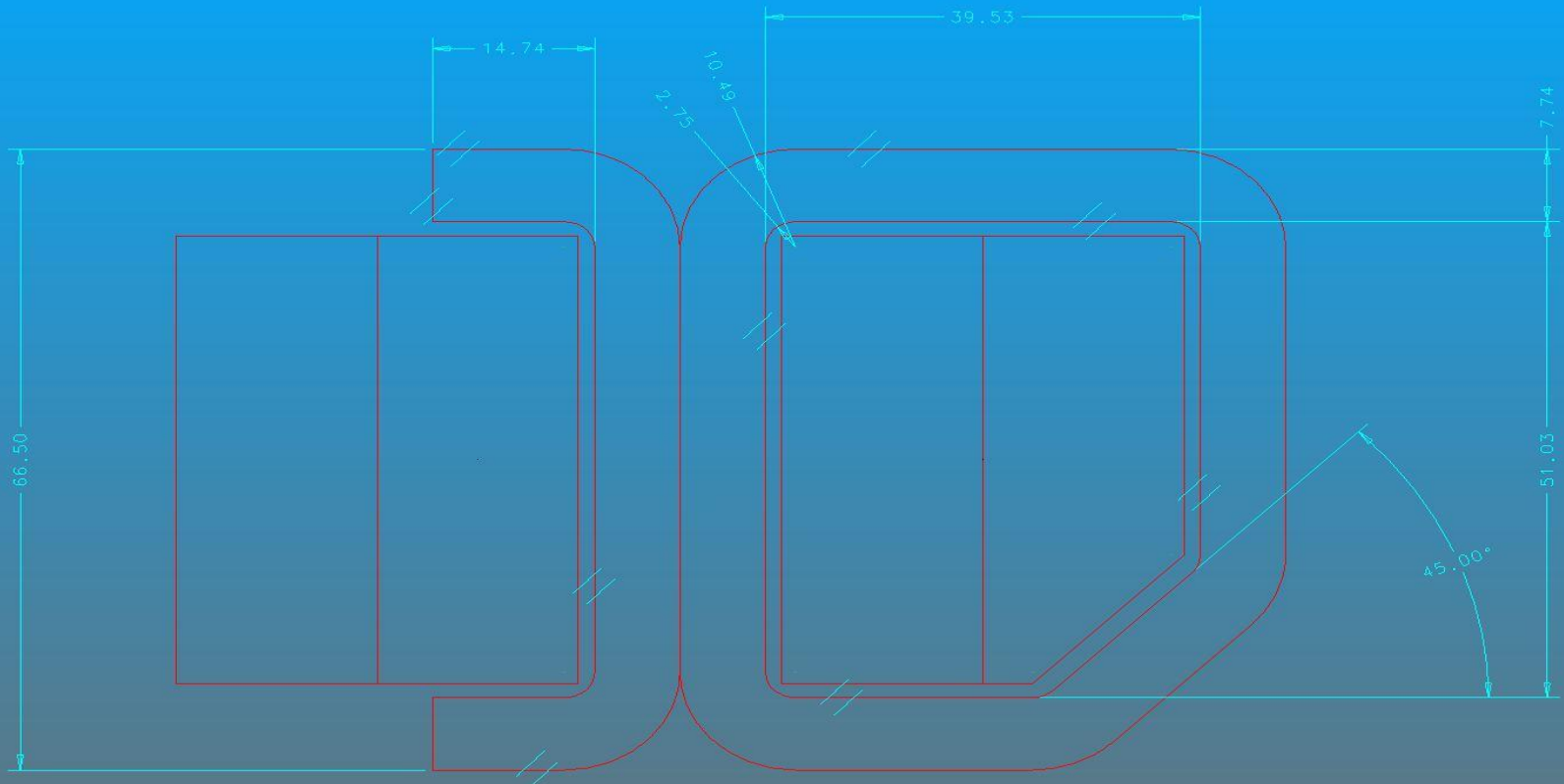
Distance 3.1 m, 14.9 degrees



Beamline cutout



New Coils



120 turns, 1.8 cm square conductor with 1.1 cm dia. Hole
1 saddle coil, 2 racetrack coils
0.127 cm turn-to-turn and ground insulation, 8.7 A/mm²

Magnet Support

- Added gusset downstream to support magnet on base
- Using 3 rollers for ease of movement
- Lowered base by extending rollers to sides
- Meeting with Hall C for use of HKS rollers
- ? Getting steel for base from BNL

