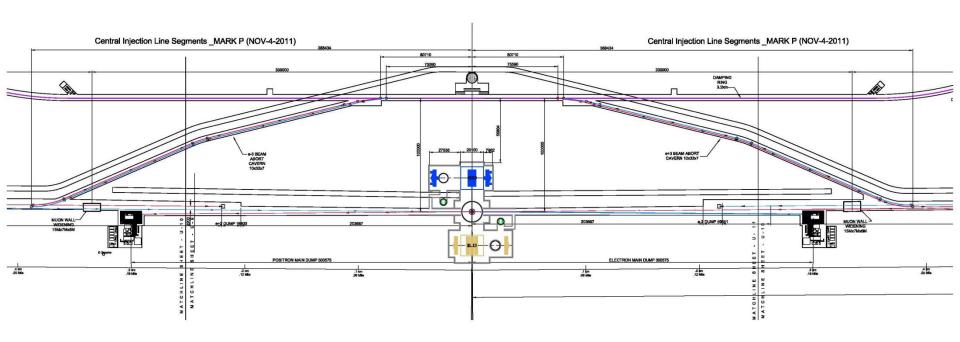


Americas Region Detector Hall

CONVENTIONAL FACILITIES AND SITING

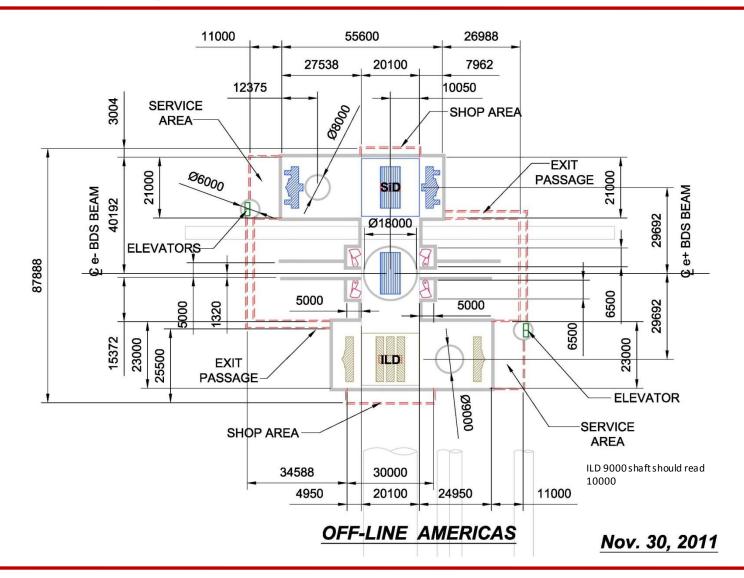
T. Lackowski



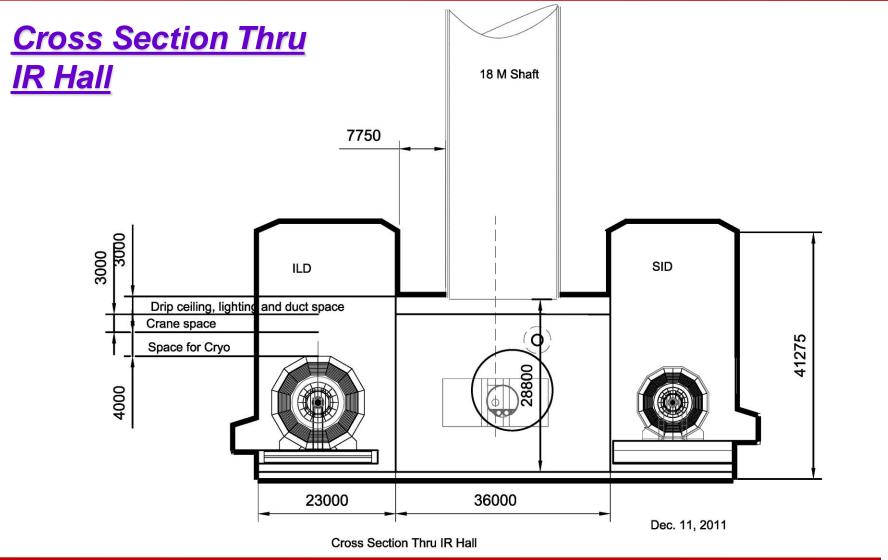
Please excuse use of this Old Drawing

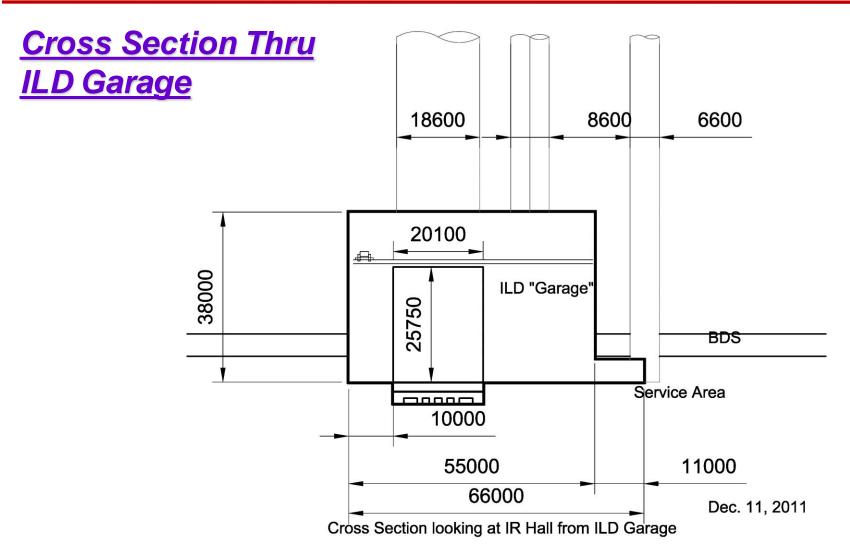


Global Design Effort - CFS

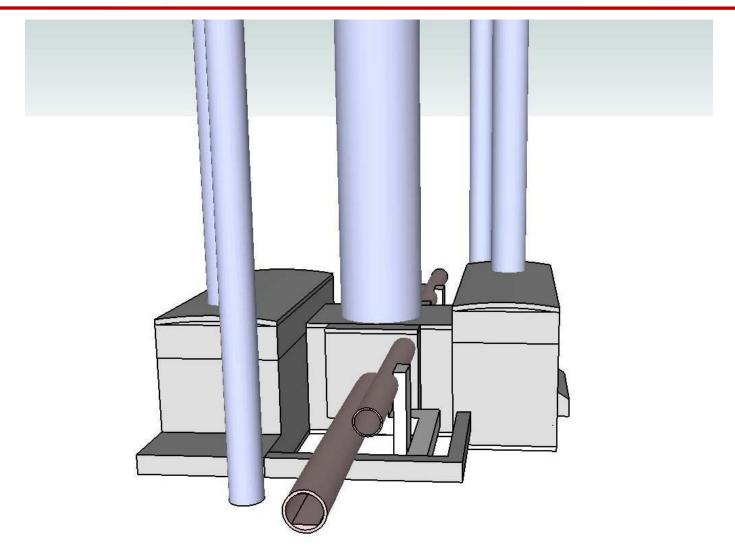




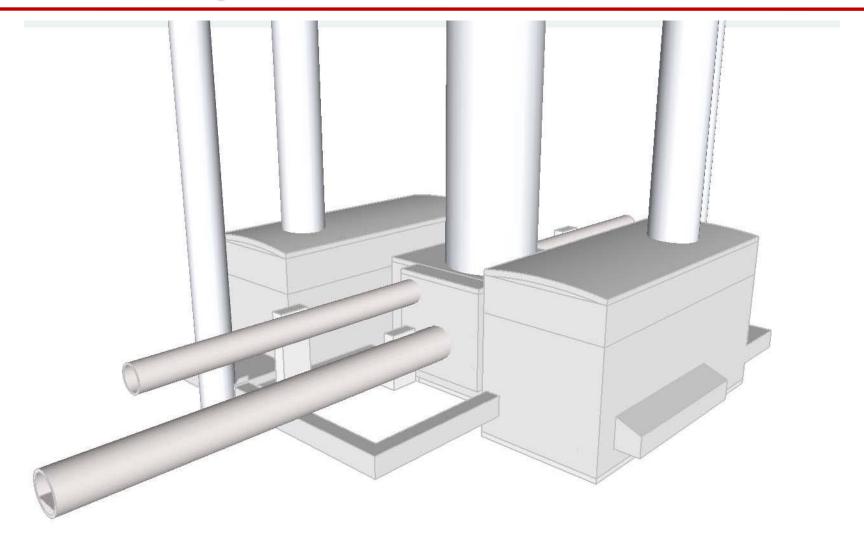




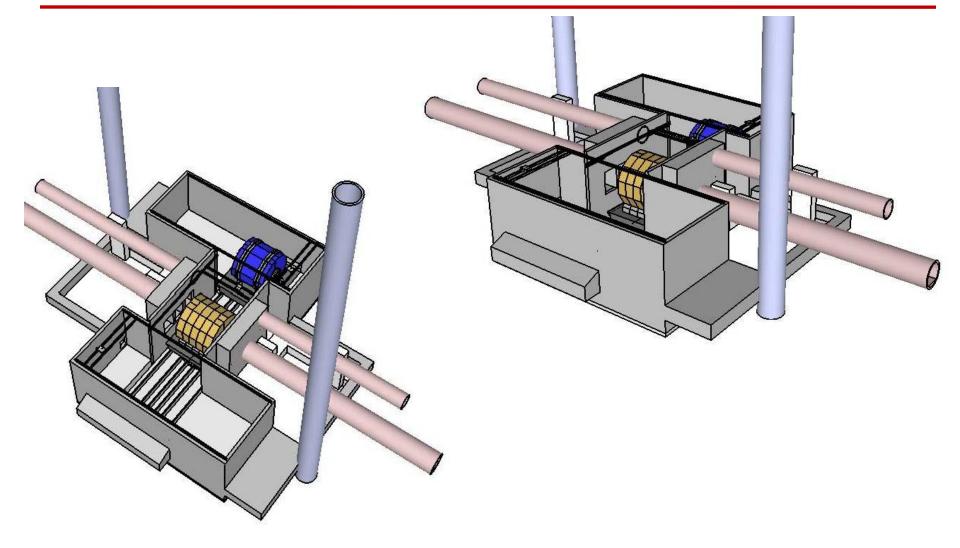




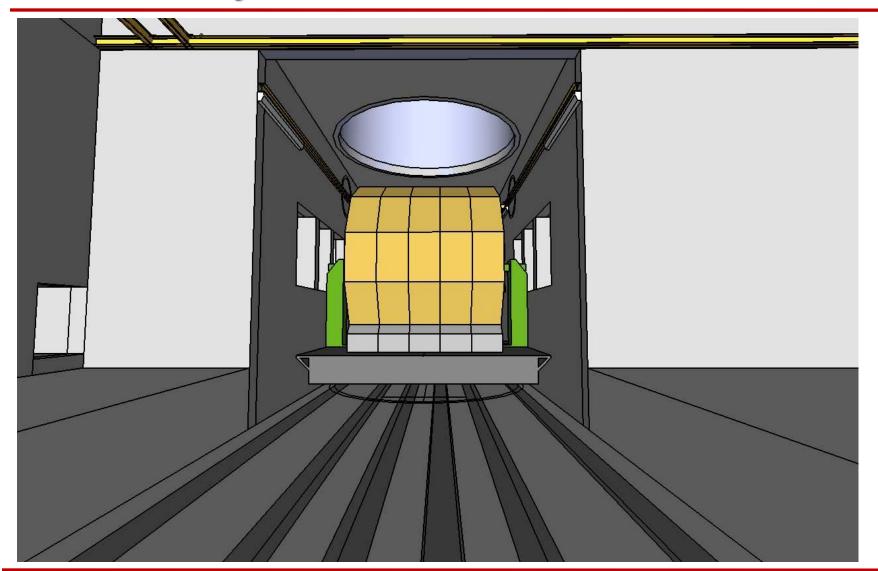




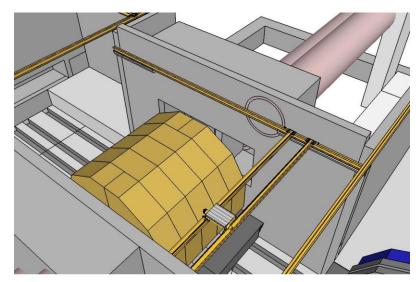


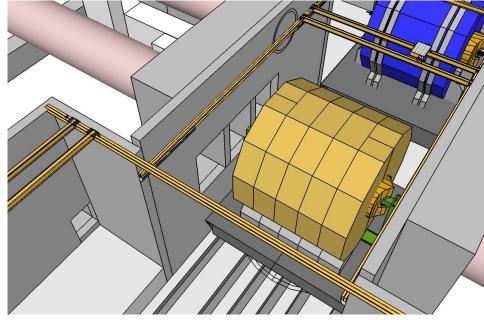




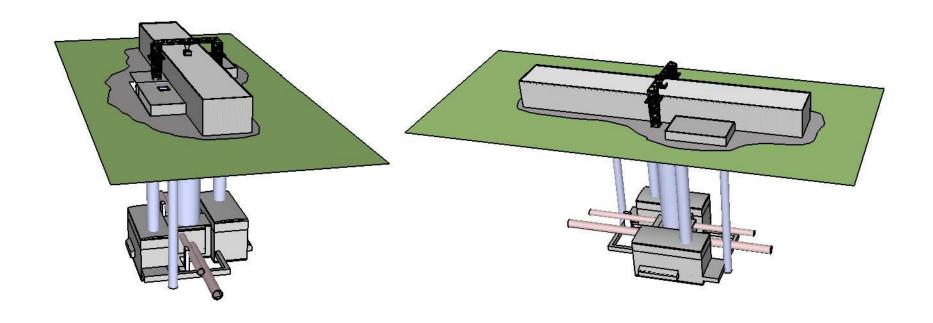








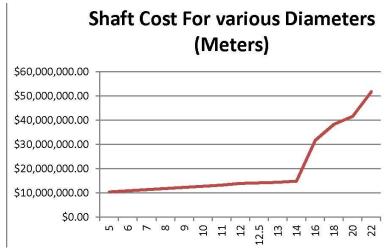




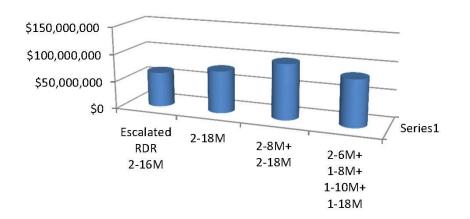


Cost of Shaft Excavation

- Includes excavation, lining, pre-grouting
 - Costs are for projected depth
 - FY 12 dollars
- Cost of impact on crown not included
 - Crown support cost may increase due to stress concentration







Detector Hall Excavation

- RDR volume = 116,167 CM
- Hall as shown = 121, 940 CM

Cranes and Platforms

- ILD and SID Platforms in Hall
- Additional Crane in Hall
 - Two 40 Tons, one in each Garage areas
 - Plus one 40 Tons in IR Region
- Additional Cranes in Building
 - 4000 Ton Main Hoist
 - Two 400 Ton. One in each Assembly Building
 - Plus 40 Ton over Cryostat Shaft

Catwalks and Access

- All platforms and stairs/ladders for the Detector are provided by each detector group
- CFS will provide catwalk in IR Hall and access to cranes Finishes (unless needed for structural support)
 - Floors
 - Cast in Place Concrete, Steel Troweled Finish
 - Walls
 - Formed Cast in Place Concrete in IR Hall
 - Shotcrete in Garage Spaces
 - Roofs
 - Shotcrete, Rolling Drip Ceilings at shafts
- Platforms
 - Four platforms, two in IR Hall and two at surface to be in CFS costs, including moving system.