PP2 Status TRT

Jack Fowler – 14 February 2006
PP2 Positions Side A

SECTOR 7

SECTOR 3

SECTOR 9

SECTOR 1

SECTOR 13
Sector 13

- Design has been finalized
- No changes to TRT positions.
- Pixel power box has been rotated to improve access to type III cables.
- Final platform positions determined last week.
- Designing mounting plates for boxes on platform.
- Begin to fabricate and install.
- Need to finalize cooling circuit/connections and sniffer pipes
View of Services going down through Muon Chambers
View of Platform Showing Muon Chamber Above

Working height ~ 1.1 m
View of TRT Platform in Sector 13

Access hole 60 cm dia

1.3 m

Width of working area 1.3 m
Box depth ~ 0.2 m
Cable envelope ~ 0.3 m
Access space width ~ 0.7 to 0.8 m
Services Routing
Type III Cable Routing
Sectors 3 and 7

- Sectors 3 and 7 will be basically unchanged
- Moved small Pixel ENV box on top of TRT power
- Access to platform through 60 cm holes in voussoir
- Due to no direct access to rear of boxes, the lower level boxes will be installed, type II cables connected, then upper level boxes installed
- Limited working height ~ 1.4 m
Type III Cable Trays and Cable Routing
Full View with Muon Chambers
Other Issues

• Mechanical interconnections
  – Complete cooling tests and finalize connections between boxes
  – Leak test for cooling system
  – Sniffer tubing and connections
  – Fixation of HV connectors

• Cable strain relief – may be determined in situ

• Cable lengths needed – Type III?

• Cable connector protection during installation

• Type II DCS cable protection needs to be finalized and implemented

• Design for sectors 1 and 9???
Schedule

• Sector 13 can begin in late Feb/March
• Drawings for phase II cabling in sector 13 (includes Type II TRT and Pixel cables to PP2) to be completed next week
• Platforms in sectors 3, 7, 1 and 9 are being installed now
• Current sequence of installation for PP2 boxes – 13, 9 and 3