



Central Region Tunnel Layout

Tom Lackowski

Date

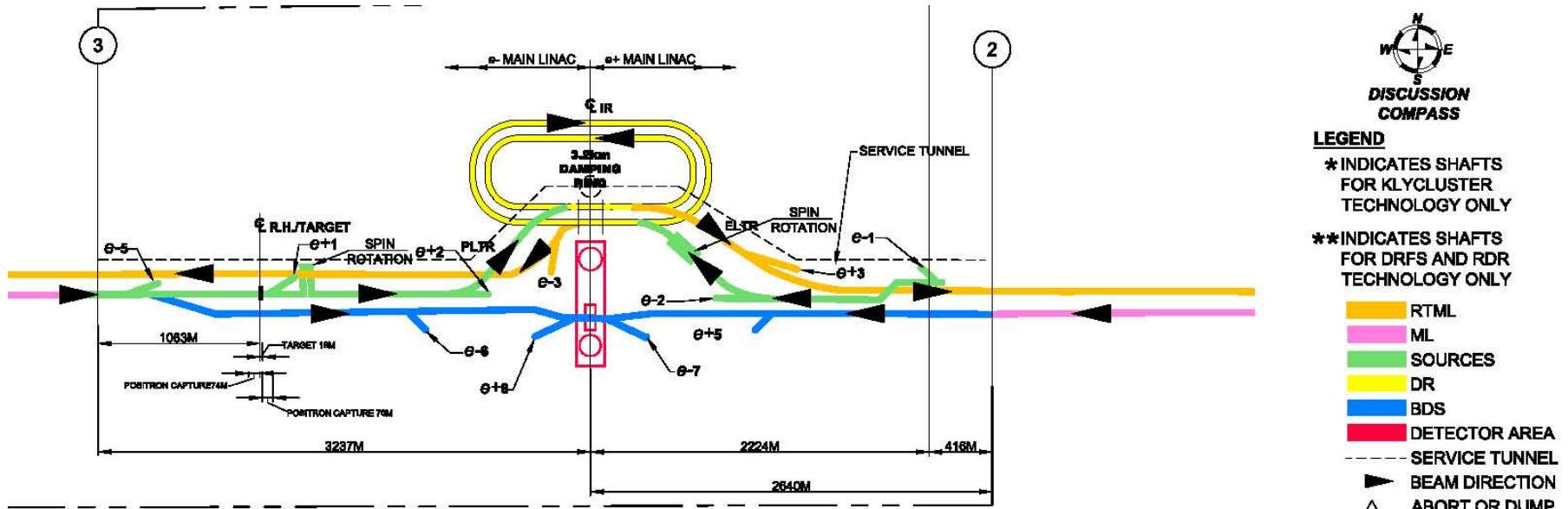
Event

Global Design Effort

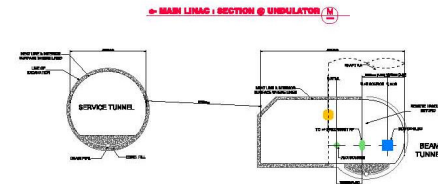
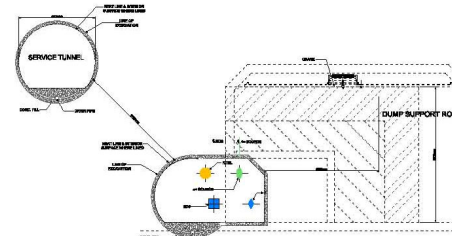
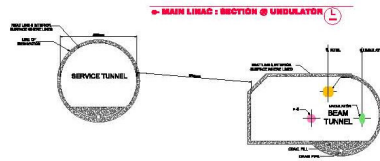
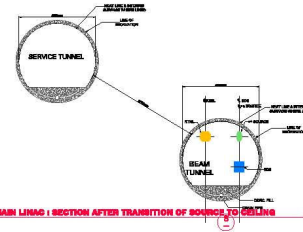
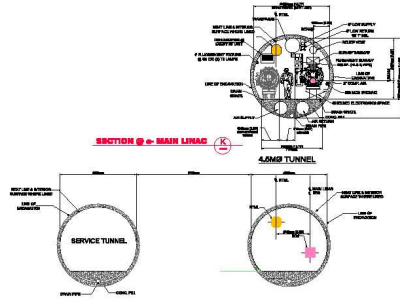
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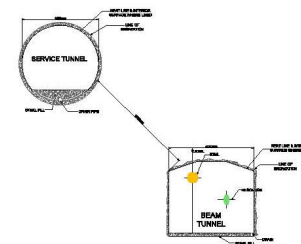
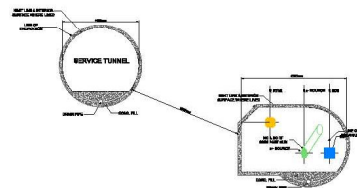
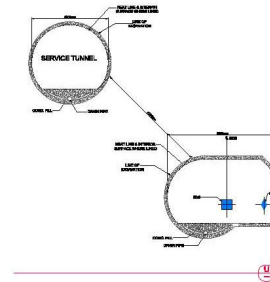
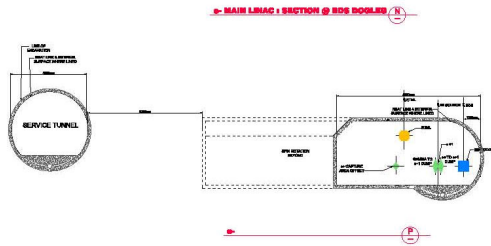
Central Region Plan



e- MAIN LINAC



MAIN LINAC : SECTION @ SID NEAR DETECTOR HALL (I)



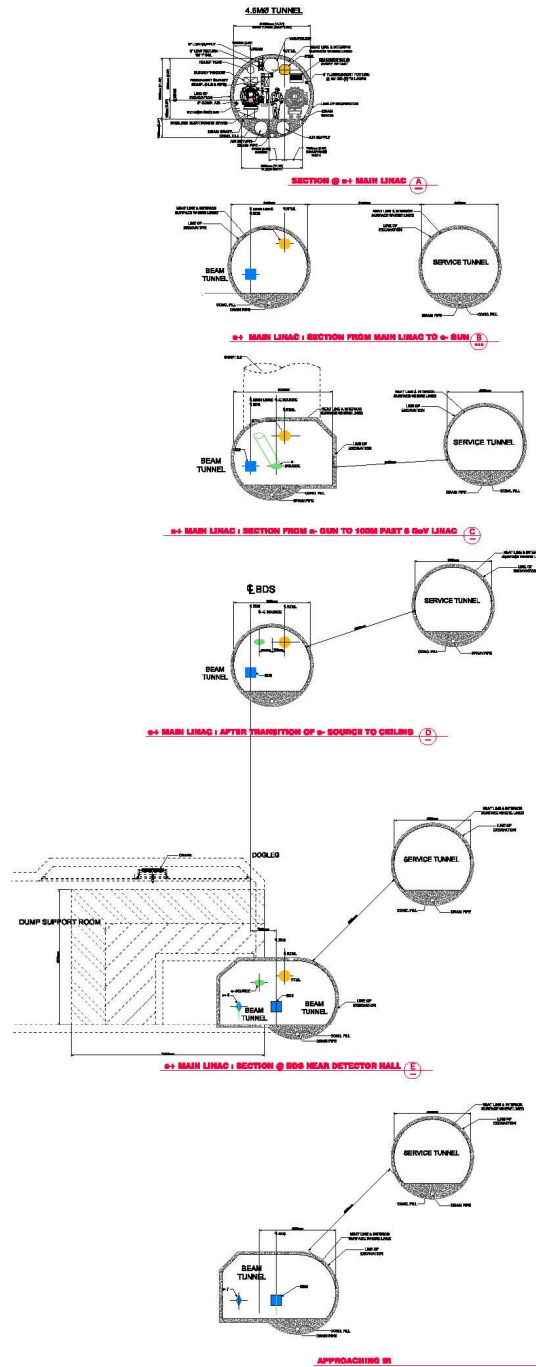
LEGEND
 RTM: TUNNEL CROSSSECTION REFLECT THE AMERICAS GEOLOGIC CONDITIONS.
 M: TUNNEL CROSSSECTION REFLECT THE AMERICAS GEOLOGIC CONDITIONS.
 SOURCES
 DR
 SID
 DETECTOR AREA

SHEET - 4
Draft
11-20-09



e+ MAIN LINAC

- Main
– Su

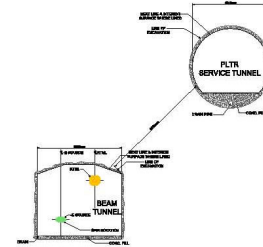


SHEET - 3
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11-20-09

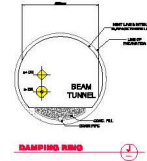
LEGEND

█	RTM
█	ME
█	SOURCES
█	DR
█	BDS
█	DETECTOR AREA

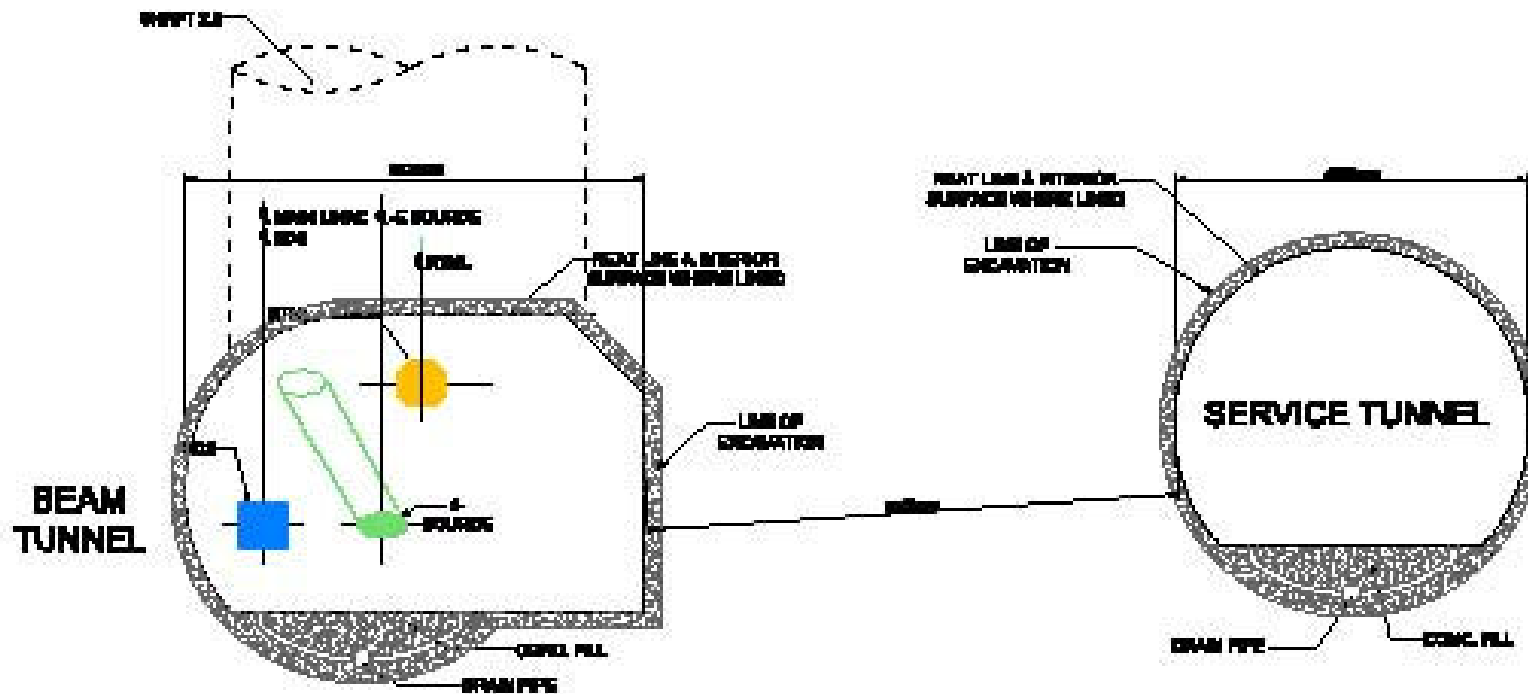
TUNNEL CROSSSECTION REFLECT THE AMERICAS GEOLOGIC CONDITIONS.



SECTION @ FLTR



DAMPING RING



e+ MAIN LINAC : SECTION FROM e- GUN TO 100M PAST 8GeV LINAC





Tunnel Considerations

- Tunnel Configurations shown are constructible.
- Geology in each Region will have a impact on the specific layout and design.
- Installation and operational issues need to be studied.
- Utilities and services need to be incorporated into the sections.
- Service tunnel requirements need to be defined.



Tunnel Considerations

- Service Tunnel
 - Need to define the contents.
 - Heat load distribution between Service Tunnel and Beam Tunnel (cooling and power requirements for sources are not specific enough for design/acurate costing purposes)
 - Quantify the need for the Service Tunnel



Requirements

- Post RDR meetings started to define, in specific terms, requirements for the Damping Rings. This effort has been somewhat lost and we need to regroup.
- Sources cooling and power requirements has almost no specific information.