Appendix E: Tunnel Construction Methods



TUNNEL CONSTRUCTION METHODS

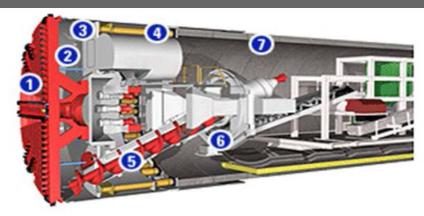


Cut & Cover Tunnel



Tunnel Boring Machine (with Precast Segmented Lining)

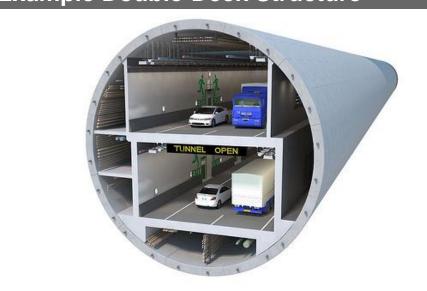
TBM Schematic



- 1 Cutting Wheel
- 3 Pressure Bulkhead
- S Auger Conveyor
- 7 Segment

- 2 Excavation Chamber
- 4 Thrust Cylinder
- 6 Erector

Example Double-Deck Structure

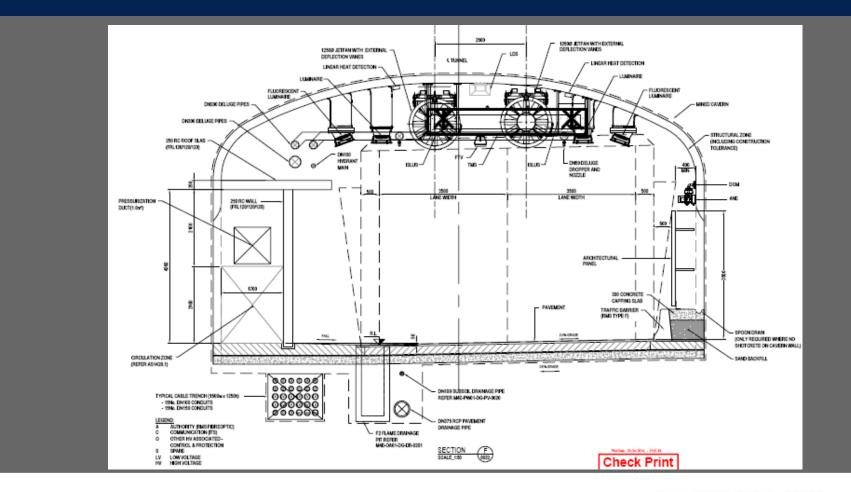




Roadheader Tunnel



Compact section exavated with RH





Section with TBM

