



Global Parameters

New Proposed Stretched Detector

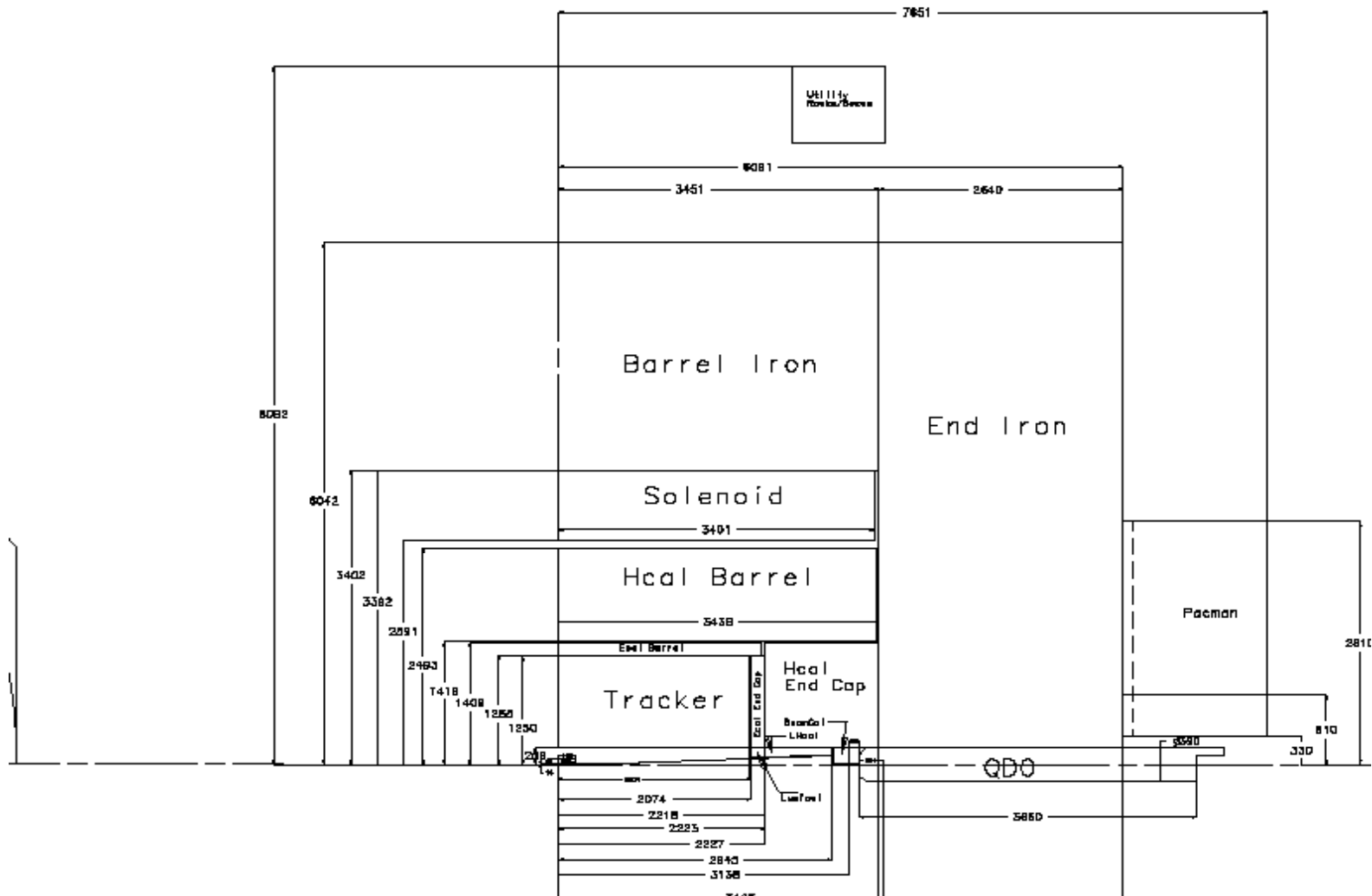
Detector	Radius (m)		Axial (z) (m)	
	Min	Max	Min	Max
Vertex Detector	0.014	0.060	0.000	0.180
Central Tracking	0.206	1.250	0.000	2.024
Endcap Tracker	0.207	0.492	1.063	2.054
Barrel Ecal	1.265	1.409	0.00	2.183
Endcap Ecal	0.206	1.250	2.074	2.183
Barrel Hcal	1.418	2.493	0.000	3.436
Endcap Hcal	0.206	1.404	2.223	3.436
Coil	2.591	3.392	0.000	3.402
Barrel Iron	3.402	6.042	0.000	3.451
Endcap Iron	0.230	6.042	3.452	6.091

Inter-Detector Gaps	m
DR_GAP_Trkr_EMCal	0.015
DR_GAP_EMCal_Hcal	0.010
DR_GAP_Hcal_Cryostat	0.010
DR_Gap_Cryostat_Steel	0.010

Gap between Barrel and End cal
DR_Gap_BEcal_ECEcal=.015m
DR_Gap_BHcal_ECHcal=.015m
DZ_Gap_CT_ECEcal=.020m
DZ_Gap_BEcal_ECHcal=.040m
DZ_Gap ECEcal_ECHcal=.005m
DZ_Gap_BHcal_EndIron=.015m



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Design Issues

- Barrel Detectors Longer
 - Tracker → More Mass
 - Ecal, Hcal, Muon Systems → More Dead Space
- Solenoid
 - Radius Grows
 - Stored Energy Higher
- Maintenance Issues
 - End caps need to open further → More Hall Space
 - Vertex/Tracker maintenance
- QD0 Support Changes
- Costs Go Up