

Central Interceptor Main Project Works – Key Facts Table

	Concept Design			Comment
	Depth range	Length	Internal Diameter	
Main Tunnel	22 – 110 m	13 km	3.5 – 5m	Minimum depth under Manukau Harbour approx 15m below sea bed level.
Link Sewer 1	18 – 28 m	1 km	1.5 – 3.5 m	
Link Sewer 2	22 – 43 m	1 km	1.5 – 3.5 m	
Link Sewers 3	23 - 85 m	3 km	1.5 – 3.5 m	Diameter range between 1.5 m to 5 m between May Road and Haycock Avenue – as this section may be constructed using main tunnel TBM
Link Sewer 4	3 m	0.6 km	400 mm	

Construction Site	Drawing	Construction					Permanent							
		Site area (m ²)	Noise barrier* height	Duration of Construction	Shaft depth m (for lowest level in envelope)	Shaft Construction diameter (m)	Shaft Finished diameter	Control Chambers Proposed	Overflow structure	Air Intake	Pressure relief vent	Air Treatment Facility	Grit Chamber	Above ground structures (approximate height above ground)
MAIN TUNNEL														
Western Springs	AEE-MAIN-1.1 Issue A AEE-MAIN-1.3 Issue A	8,400	-	5 years	27 (42)	25 x 15 9	7 7	Yes	No	Yes	No	Possible at future stage	Yes	Possible future ATF (5m)
Western Springs Interchange	AEE-MAIN-1.2 Issue B AEE-MAIN-1.4 Issue A	1,050	-	6-8 months construction 2 years occupation	26	9	7	Yes	Upgrade existing	No	No	No	No	
Mt Albert War Memorial Reserve														
Reserve Site	AEE-MAIN-2.1 Issue C AEE-MAIN-2.2 Issue C	5,400	2 – 2.5 m	12-18 months construction 3.5 years occupation	38 (53)	9 9	7 7	Yes	Upgrade existing	No	No	No	No	No
Car Park Site	AEE-MAIN-2.1A Issue D AEE-MAIN-2.2A Issue E	3,400	2.5 – 3 m	12-18 months construction 3.5 years occupation	38 (53)	9 9	7 7	Yes	Upgrade existing	No	No	No	No	No
Lyon Avenue	AEE-MAIN-3.1 Issue D AEE-MAIN-3.2 Issue D	3920	-	12-18 months construction 3 years occupation	45 (60)	9 9	7 7	Yes	Replace channel with culvert/pipe	Yes	No	No	No	Control Chamber (flush with parking deck so not obvious that above ground)
Haverstock Road	AEE-MAIN-4.1 Issue E AEE-MAIN-4.2 Issue E	3960	2m	12-18 months construction 3 years occupation	50 (65)	9 9	7 7	Yes	New overflow (adjacent to existing)	No	No	No	No	Control chamber (2.5-3.5m)
Walmsley Park	AEE-MAIN-5.1 Issue A AEE-MAIN-5.2 Issue A	2,550	2m	12-18 months construction	67 (82)	9 7	7 5	No	No	No	No	No	No	No

Construction Site	Drawing	Construction					Permanent							
		Site area (m ²)	Noise barrier* height	Duration of Construction	Shaft depth m (for lowest level in envelope)	Shaft Construction diameter (m)	Shaft Finished diameter	Control Chambers Proposed	Overflow structure	Air Intake	Pressure relief vent	Air Treatment Facility	Grit Chamber	Above ground structures (approximate height above ground)
				5 years occupation										
May Road	AEE-MAIN-6.1 Issue B AEE-MAIN-6.2 Issue B	15,000	3m	5 years	70 (85)	25 x 15 9	7 7	No	No	Yes	No	Possible at future stage	No	Possible future ATF (8m)
Keith Hay Park	AEE-MAIN-7.1 Issue C AEE-MAIN-7.2 Issue C	2,900 3 micro tunnel areas 450-520	3m	12-18 months construction 5 years occupation	79 (94)	9 7 3.5 (x 5 shafts)	7 5 1.8 (x 5 shafts)	No	No	No	No	No	No	No
PS 23	AEE-MAIN-8.1 Issue C AEE-MAIN-8.2 Issue C AEE-MAIN-8.3 Issue A AEE-MAIN-8.4 Issue B	3,100	-	12-18 months construction 5 years occupation	28 (44)	9 7	7 5	Yes	No	Yes	Yes	Yes	No	ATF (5m) Drop and Access shafts (3m)
Kiwi Esplanade	AEE-MAIN-9.1 Issue B AEE-MAIN-9.2 Issue B	3,400	-	12-18 months construction 5 years occupation	30 (45)	9 5	7 3	No	No	No	Yes	Passive (underground)	No	Drop and Access shafts (2m)
Mangere Pump Station	AEE-MAIN-10.1 Issue B AEE-MAIN-10.2 Issue B AEE-MAIN-10.3 Issue B	23,000	-	6 years	35 (50)	35	Pump station	No	New emergency pressure relief	No	No	Yes	No	ATF (2m) Pump station (12m)
LINK SEWER 1														
Motions Road	AEE-MAIN-11.1 Issue B AEE-MAIN-11.2 Issue A	2,100	-	12-18 months construction 3 years occupation	21 (36)	6.5 5.5	5 5	Yes	Two new overflows (close to existing overflow)	No	No	No	Yes	No
Western Springs Depot	AEE-MAIN-12.1 Issue A AEE-MAIN-12.2 Issue A	760	-	6-8 months construction 2 years occupation	24 (39)	10	2.4	No	No	No	No	No	No	No
LINK SEWER 2														
Rawalpindi Reserve	AEE-MAIN-13.1 Issue A AEE-MAIN-13.2 Issue A	4,800	2m	12-18 months construction 3 years occupation	28 (43)	10	7	Yes	Upgrade existing	No	No	No	Yes (existing)	No
Norgrove Avenue	AEE-MAIN-14.1 Issue A AEE-MAIN-14.2 Issue B	2,900	2.5m	6-8 months construction 2 years occupation	30 (45)	8.5	8	Yes	Replace existing	No	No	No	No	No

LINK SEWER 3														
PS 25	AEE-MAIN-15.1 Issue A AEE-MAIN-15.2 Issue A	5,800	-	12-18 months construction 2-3 years occupation	28 (43)	8 7	8 5	Yes	No	Yes	No	Possible at future stage	Yes	Possible future ATF (5-8m)
Miranda Reserve	AEE-MAIN-16.1 Issue A AEE-MAIN-16.2 Issue A	1,000	2m	6-8 months construction 2 years occupation	30 (45)	10	6	No	No	No	No	No	No	No
Whitney Street	AEE-MAIN-17.1 Issue A AEE-MAIN-17.2 Issue A	500	2m	6-8 months construction 2 years occupation	46 (61)	6.5	6	No	No	No	No	No	No	No
Dundale Avenue	AEE-MAIN-18.1 Issue A AEE-MAIN-18.2 Issue A	1,100	2m	6-8 months construction 2 years occupation	40 (55)	10	2.4	No	No	No	No	No	No	No
Haycock Avenue	AEE-MAIN-19.1 Issue A AEE-MAIN-19.2 Issue A	680	2.5m	6-8 months construction 2 years occupation	40 (75)	8.5	8	No	No	Yes	No	No	No	No

* Where there is no noise barrier, there would still be a standard construction fence.