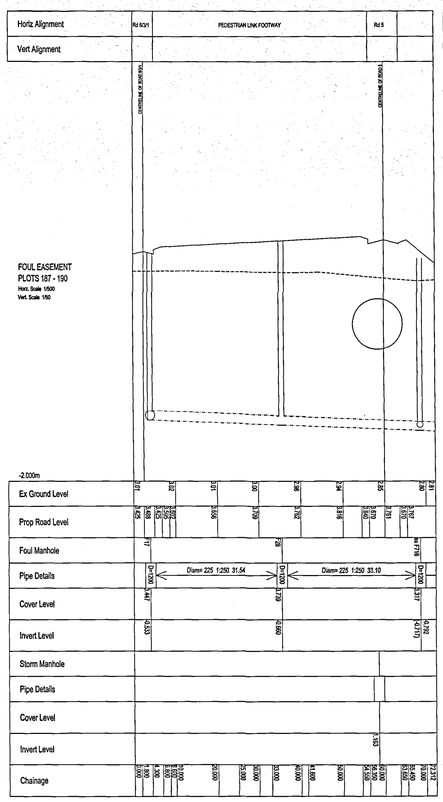
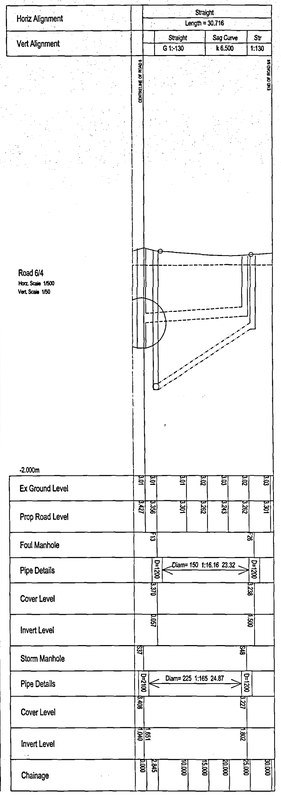
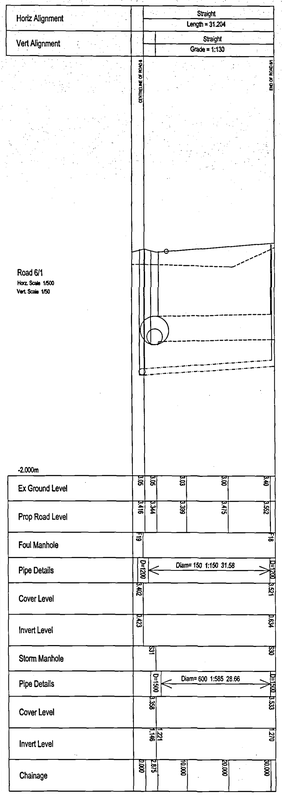






CONSTRUCTION CHART 1 - ROADS UP TO 0.25 msa
NORMAL FLEXIBLE CONSTRUCTION

SUBGRADE	SUB-BASE (mm)		SURFACING (mm)		TOTAL THICKNESS (mm)	
BEARING CAPACITY (CBR)	without Geosynthetic	with Geosynthetic	Binder Course	Surface Course	without Geosynthetic	with Geosynthetic
Below 1.5%	N/A	710 (1)	110 (2)	40	N/A	860 (1) (2)
1.5%	N/A	440	110 (2)	40	N/A	590 (2)
2%	420	340	110 (2)	40	550	490 (2)
3%	310	300	110 (2)	40	450	450 (2)
4%	300	300	110 (2)	40	450	450 (2)
5%	300	300	110 (2)	40	450	450 (2)
6-15%	300	300	110 (2)	40	450	450 (2)
Above 15%	300	300	110 (2)	40	450	450 (2)

(1) Assumes no improvement is possible either using sub-soil drainage or soil strengthening techniques. 710mm is 410mm of 6F5 capping layer granular fill to clause 6.8 and 300mm of Type 1 sub base. The thickness of 710mm can be reduced to 620mm if all Type 1 sub base is used.
For soft spots and sub grades with CBR values below 1.5% the presynthetic shall be an approved Geogrid.

(2) Binder Course can be laid in one layer (one stage construction) or an initial Binder Course layer of 70mm followed by an additional layer of 60mm when the kerbs are laid (two stage construction).
If two stage construction is used then Binder Course depths and Total Construction depths are therefore increased by 20mm.

Manhole Schedules - Foul

Manhole Name / Coordinates	Cover Level / Manhole Depth	Layout Diagram	Pipe	Inverts	Pipe Diameter	Manhole Size	Manhole Class	Manhole Cover
F18	3.521	1	1	0.634	150	1200	B	D400
4526.471 4752.073	2.887	0	0	0.634	150			
F19	3.402	2 1	1	0.423	150	1200	B	D400
4549.021 4770.995	2.992	0	0	0.423	150			
F20	3.245	1 2	1	0.303	150	1200	B	D400
			2	0.303	150			
4565.472 4778.126	2.942	0	0	0.303	150			
F25	3.479	1	1	1.028	150	1200	B	D400
4787.138 4736.725	2.442	0	0	1.028	150			
F24	3.534	2 1 3	1	0.624	150	1200	B	D400
			2	0.624	150			
			3	0.624	150			
4829.306 4736.706	2.810	0	0	0.624	150			
F23	3.598	1 2	1	0.535	150	1200	B	D400
			2	0.535	150			
4856.910 4746.360	3.063	0	0	0.535	150			
F22	3.223	1 2	1	0.225	150	1200	B	D400
			2	0.225	150			
4918.363 4746.288	2.998	0	0	0.225	150			
F21	3.237	1 2	1	0.137	150	1200	B	D400
			2	0.137	150			
4930.664 4747.207	3.102	0	0	0.137	150			
F15	3.508	3 2 1	1	-0.138	150	1350	A	D400
			2	-0.138	150			
			3	-0.138	150			
4930.578 4720.168	3.722	0	0	-0.214	225			
F16	3.332	2 3 1	1	-0.473	225	1200	A	D400
			2	-0.348	150			
			3	-0.348	150			
4906.303 4720.186	3.805	0	0	-0.473	225			
F17	3.447	1 2	1	-0.533	225	1200	A	D400
			2	-0.408	150			
4896.300 4715.200	3.966	0	0	-0.533	225			
F12	3.531	1 2	1	0.567	150	1200	B	D400
			2	0.567	150			
4858.003 4625.530	2.994	0	0	0.567	150			
F13	3.370	3 2 1	1	0.057	150	1200	A	D400
			2	0.057	150			
			3	0.057	150			
4931.078 4671.602	3.313	0	0	0.057	150			
F14	3.496	2 1	1	-0.038	150	1200	A	D400
			2	-0.038	150			
4927.628 4664.879	3.531	0	0	-0.038	150			
F26	3.298	1 3	1	1.500	150	1200	B	D400
			2	1.500	150			
4920.945 4668.810	1.738	0	0	1.500	150			
F27	3.404	1 2 3	1	0.313	150	1200	B	D400
			2	0.313	150			
			3					
4885.535 4651.076	3.092	0	0	0.313	150			
F28	3.739	1 2	1	-0.056	150	1200	A	D400
			2	-0.056	150			
4926.581 4719.391	3.806	0	0	-0.056	150			

CARRIAGEWAY WIDENING ON CENTRELINE RADII LESS THAN 80m SERVING MORE THAN 25 DWELLINGS.

CENTRELINE RADIUS	20	30	40	50	60	80
MINOR ACCESS ROAD	0.60	0.40	0.35	0.25	0.20	0.15
MAJOR ACCESS ROAD	N/A	0.40	0.35	0.25	0.20	0.15

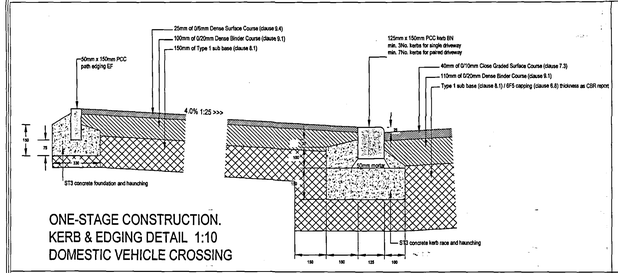
KERB RADII AT JUNCTIONS.

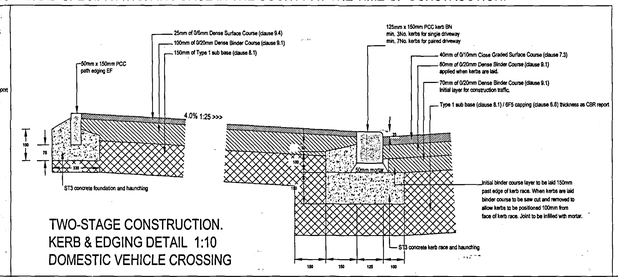
MINOR ACCESS ROAD	6.0
MAJOR ACCESS ROAD	10.0

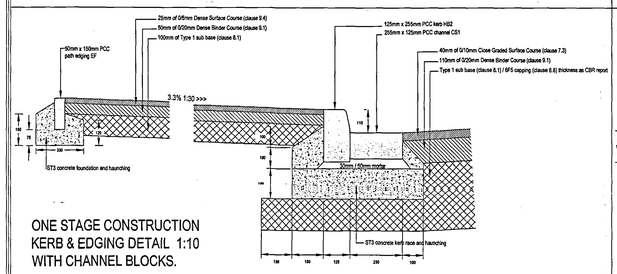
ALL IRONWORK WITHIN THE HIGHWAY SHALL CONFORM TO EN124,GRP 4 (CLASS D400). ALL GULLIES SHALL BE HINGED BUT NON-REMOVABLE AND SHALL HAVE A NOMINAL WIDTH OF 450mm WITH A MINIMUM AREA OF WATERWAY OF 900cm².

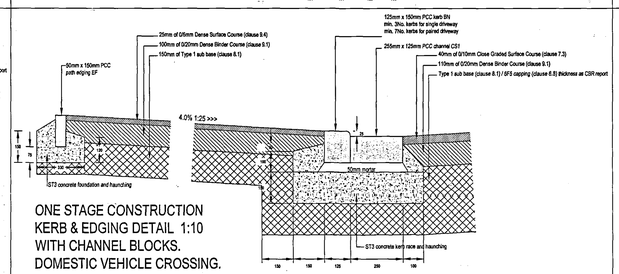
Manhole Schedules - Storm

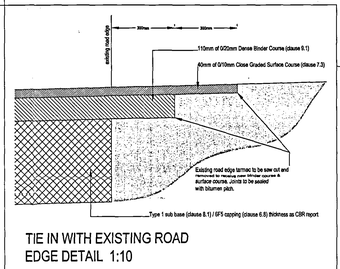
Manhole Name / Coordinates	Cover Level / Manhole Depth	Layout Diagram	Pipe	Inverts	Pipe Diameter	Manhole Size	Manhole Class	Manhole Cover
S30	3.533	1	1	1.270	600	1500	B	D400
4524.506 4791.170	2.263	0	0	1.270	600			
S31	3.358	1 3	1	1.215	525	1500	B	D400
			3	1.146	450			
			4	1.071	150			
4544.954 4771.284	2.212	0	0	1.146	675			
S33	3.255	2 1	1	1.057	675	2100	B	D400
			2	1.031	300			
4529.272 4742.465	2.108	0	0	1.057	1200			
S35	3.536	1 3	1	1.582	1200	2100	B	D400
			2	1.432	300			
4527.752 4697.316	2.475	0	0	1.582	1200			
S36	3.534	3 1 2	1	1.910	150	2100	B	D400
			2	1.910	150			
			3	1.890	150			
4520.892 4686.674	2.481	0	0	1.063	1200			
S37	3.408	1 2	1	1.340	1200	2100	B	D400
			2	1.051	225			
4516.565 4672.438	2.368	0	0	1.040	1200			
S38	3.508	4 1 3 2	1	1.005	1200	2100	B	D400
			2	1.172	150			
			3	1.910	150			
			4	1.890	150			
4877.647 4644.598	2.562	0	0	1.005	1200			
S39	3.528	1 2	1	0.987	1200	2100	B	D400
			2	1.058	150			
4857.904 4632.530	2.541	0	0	0.987	1200			
S40	3.275	4 3 1 2	1	0.964	1200	2100	B	D400
			2	1.014	150			
			3	1.040	150			
			4	1.079	150			
4826.036 4627.272	2.311	0	0	0.964	1200			
S41	3.145	2 1 3	1	1.200	215 EX 150 375 to be removed	1200	B	D400
			2	1.440				
			3	1.258				
4574.931 4782.237	1.860	0	0	1.258	450			
S42	3.640	1 2 3 4	1	1.390	150	1200	X	D400
			2	1.750	150			
			3	2.090	150			
			4	2.200	150			
4827.556 4745.538	1.425	0	0	2.215	225			
S43	3.688	1 2	1	1.351	225	1200	B	D400
			2	2.088	150			
4855.850 4749.573	1.753	0	0	1.916	300			
S44	3.281	1 2	1	1.700	300	1200	X	D400
			2	1.880	150			
4912.023 4749.573	1.581	0	0	1.700	300			
S45	3.190	1 2	1	2.140	150	1200	X	D400
			2	2.140	150			
4953.486 4677.986	1.125	0	0	1.990	300			
S46	3.343	2 1 3	1	1.870	300	1200	X	D400
			2	1.870	300			
			3	2.030	150			
4953.486 4692.738	1.473	0	0	1.870	300			
S47	3.108	2 3 1	1	2.036	225	1200	X	D400
			2	2.111	150			
			3	2.111	150			
4914.787 4643.364	1.497	0	0	1.961	300			
S48	3.227	1 2 3	1	1.877	150	1200	X	D400
			2	1.877	150			
			3	1.877	150			
4936.708 4657.720	1.425	0	0	1.802	225			
S49	3.194	0	0	2.135	150	1200	X	D400
4956.324 4615.863	1.029	0	0	2.135	150			
S50	3.323	1 3 2	1	2.323	150	1200	X	D400
			2	2.323	150			
			3	2.323	150			
4929.200 4706.141	0.815	0	0	2.448	225			
S51	3.478	3 2 1	1	2.160	150	1200	X	D400
			2	2.160	150			
			3	2.360	150			
4925.700 4733.702	1.163	0	0	2.315	225			
S52	3.423	1 2	1	2.400	150	1200	X	D400
4953.142 4702.364	1.098	0	0	2.325	225			

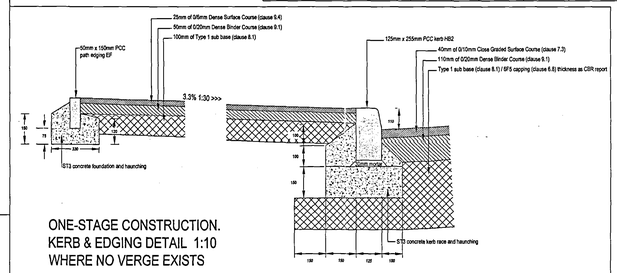


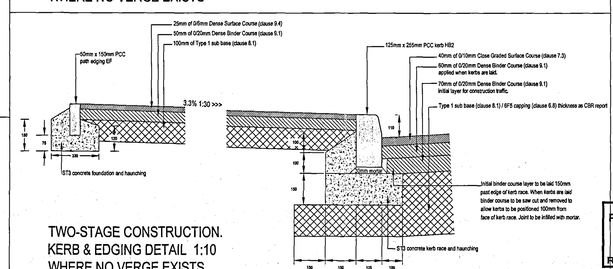




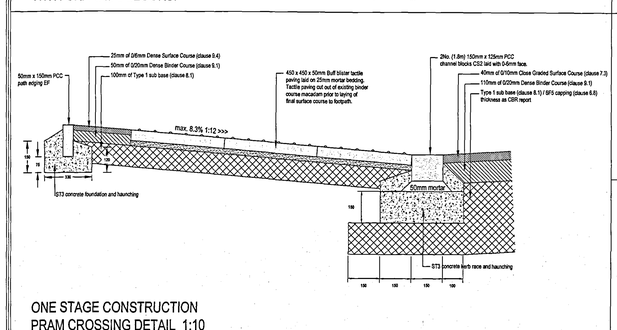


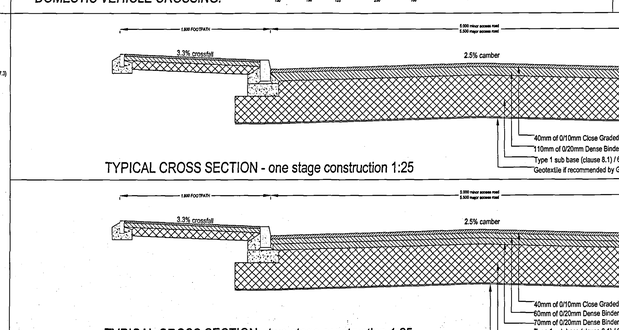






NOTE:
THE SPECIFICATION SHALL IN ALL RESPECTS BE TO THE CURRENT DEVELOPMENT ROAD LAYOUT GUIDE AND SPECIFICATION IN FORCE IN THE COUNTY AT THE TIME OF CONSTRUCTION.





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NOTES:

ALL SEWERS TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROCEDURES AND SPECIFICATION OF SEWERS FOR ADOPTION 5TH EDITION (JULY 2001), ADDITIONS AND DELETIONS TO SEWERS FOR ADOPTION 5TH EDITION (NOVEMBER 2001) AND THE COMBINED ROADWAY (JULY 2003).

STORM BRANCH CONNECTIONS TO BE 150mm dia. LAID NO STEEPER THAN 1:5 AND NO FLATTER THAN 1:150.

GULLY CONNECTIONS TO BE 150mm dia. LAID NO FLATTER THAN 1:17/L.

FOUL BRANCH CONNECTIONS TO BE 150mm dia. LAID NO STEEPER THAN 1:5 AND NO FLATTER THAN 1:150.

ALL PIPEWORK TO BE LAID SOFFIT TO SOFFIT UNLESS OTHERWISE STATED.

ALL PIPES 300mm Ø & GREATER WITH COVER EXCEEDING 1.2m TO BE STRENGTH CLASS 120 TO BS5911-3:2002 WITH GRAVEL BED AND SURROUND.
ALL CLAY PIPES 150mm Ø & 225mm Ø (WITH COVER LESS THAN 1.2m TO BE STRENGTH CLASS 120 TO BS EN 295-1:2002 WITH CONCRETE PROTECTION.
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