

ROAD3A

CHAINAGE	0.000	3.463	7.201	8.547	10.000	12.044
EXISTING GROUND LEVEL	52.978		53.130	53.178		
ALIGNMENT LEVEL		53.778	53.697	53.671	53.178	
VERTICAL ALIGNMENT			Q _p	-1.250%		
			1	-80.0		
HORIZONTAL ALIGNMENT						
LEFT HAND CHANNEL			53.802	53.824	53.742	
RIGHT HAND CHANNEL			53.620	53.634	53.602	

ROAD6

CHAINAGE	0.000	2.770	5.248	6.088	8.000
EXISTING GROUND LEVEL	55.164		54.659		
ALIGNMENT LEVEL		55.582	55.450		
VERTICAL ALIGNMENT			Q _a	-2.500%	
			1	-40.0	
HORIZONTAL ALIGNMENT					
LEFT HAND CHANNEL			55.448	55.375	
RIGHT HAND CHANNEL			55.524	55.525	

ROAD4

CHAINAGE	0.000	6.100	5.644	7.272	10.000	15.876	22.926	25.785	30.000	37.985	40.000	45.150	48.800
EXISTING GROUND LEVEL	59.770	59.783	59.424	59.343	59.206	59.094	59.707	59.525	59.344	59.094	57.987	57.924	57.980
ALIGNMENT LEVEL													
VERTICAL ALIGNMENT													
HORIZONTAL ALIGNMENT													
LEFT HAND CHANNEL													
RIGHT HAND CHANNEL													
STORMWATER COVER LEVEL													
STORMWATER INVERT													
STORMWATER DETAILS													
STORMWATER LENGTHS													
FOULWATER COVER LEVEL													
FOULWATER INVERT													
FOULWATER DETAILS													
FOULWATER LENGTHS													

ROAD5

CHAINAGE	0.000	54.784	57.389	57.356	57.325	57.250	57.162	57.000	56.969	56.831	56.000	55.987	55.922	55.900	55.869	55.834	55.828
EXISTING GROUND LEVEL	57.514	54.784	54.740	54.739	54.723	54.723	54.723	54.723	54.723	54.723	54.723	54.723	54.723	54.723	54.723	54.723	54.723
ALIGNMENT LEVEL																	
VERTICAL ALIGNMENT																	
HORIZONTAL ALIGNMENT																	
LEFT HAND CHANNEL																	
RIGHT HAND CHANNEL																	
STORMWATER COVER LEVEL																	
STORMWATER INVERT																	
STORMWATER DETAILS																	
STORMWATER LENGTHS																	
FOULWATER COVER LEVEL																	
FOULWATER INVERT																	
FOULWATER DETAILS																	
FOULWATER LENGTHS																	

- To be read in conjunction with Eastwood and Partners drawings prefixed 45864.
- All pipes shall be either:
A - Verified clay to BS EN 295 with a minimum crushing strength as follow :-
150 da - 40 kN/m
225 da - 45 kN/m
300 da - 72 kN/m
B - PVC (certified to WIS 4.35-01 & BS EN 13476)
C - Class 120 concrete to BS 5911-1:2002/EN 1916.
- All pipes should always connect soffit to soffit unless noted otherwise.
- All sewers to have BSI kitemark status (certified to WIS 4.35-01 & BS EN 13476). Maximum pipe length to be 3m. Plastic channel sections in manholes are not acceptable. Clay channel sections shall be used.
- Sewers to be laid in Class "S" Bedding (150mm granular bed and surround). Where depth of cover to top of the sewer is less than 1.2m in highways and verges (or less than 900mm in non vehicular access areas) then a concrete slab should be provide above granular bed and surround.
- Manhole covers shall must have a clear opening of 600 and shall be class D400 to BS EN 124 with 150 deep frames in highways.
- Pipes entering manholes and road gullies shall have a flexible joint within 600 of the inside the manhole or gully joining with a short Rocker pipe.
- The adoptable sewers should be a minimum of 1m and manholes 0.5m from kerb faces and service margins.
- Sewers must have 5m clearance from trees and hedges
- All trenches in roads and paved areas shall be backfilled with Type 1 DOT granular sub-base material, or other granular material approved by the highway authority.
- Fill ground must be filled and consolidated under the supervision and to the satisfaction of Yorkshire Water before any sewer works are carried out.
- All in situ concrete to be designated mix FND2 to BS 8500-1 unless agreed otherwise.
- The invert levels at the proposed points of connection to existing public sewers shall be checked before any new drains are constructed. Any variation to the levels shown on the drawing shall be notified to Eastwood & Partners.
- The chamber size of manholes with more than one connection in them may need to be increased an increment to accommodate the connections and bends.
- Cover levels are indicative only. Covers to be set to suit camber/gradient of existing and proposed roads.
- Cover slabs must carry the BSI Kitemark or will be rejected by Yorkshire Water Inspector. Where the clear opening of the Kitemarked product is different to that of the cover and frame, a loading bearing slab should be fitted above the cover slab to bring the size down to 600mm x 600mm for the Yorkshire Water specified cover size. Please refer to Concrete Pipe Systems Association (CPSA), "Technical Bulletin" issued Autumn 2004 for Kitemarked cover slab opening sizes.
- All foul lateral sewers and drains to be 1500 unless noted otherwise.
- Yorkshire Water policy is that Type "C" brick manholes and 100mm dia manhole rings are not preferred. Instead it is preferred that you use a type "S" manhole with 1200mm dia or 1500mm dia rings, with the opening sited over the channel where depth of cover to pipe soffit is 1 - 1.5m.
- Manhole covers shall must have a clear opening of 600mm and shall be Class D400 to BS EN 124 with 150mm deep frames in highways.
- Where a B125 cover and frame has been approved, this must not be coated in plastic and must have lifting eyes suitably sized to accommodate standard lifting keys. Screw down covers are not acceptable.
- All adoptable sewer works and material to be in accordance with "Code for Adoption". The Relevant British/European and Yorkshire Water's Standards/Requirements/Addendum to the Mechanical and Electrical Specification and Kitemarked.
- Yorkshire Water is not obliged to accept filter drain/land drainage run-off into the public sewer network or adoptable drainage system (directly or in-directly). An alternative method of disposal of the land drainage run-off will therefore be required and you will have to liaise with the Local Authority, Land Drainage Section with regard to the disposal of the filter drain/land drainage run-off.
- Sulphate resistant cement (C20-D2) and precast concrete products must be used or a laboratory report provided proving that such precautions are not necessary.
- Bedding and backfill material to conform to the requirement of Water Industry Specification 4-08-02 (Table A2).
- Adoptable plastic sewer pipes to be BSI Kitemarked (certified to WIS 4.35-01 and BS EN 13476). Adoptable plastic sewer pipes to be laid in maximum 3 metre lengths unless there is a specific operational need to lay longer lengths. Plastic channel sections in manholes are not acceptable and Yorkshire Water would prefer clayware channel in manholes. We have found that plastic channels are difficult to set in concrete because they float and a satisfactory finish cannot be obtained on the bedding.
- The clearance of the crossover points (min 300mm) between the surface water, foul sewers, rising main and other services should be sufficient clearance to provide 150mm surround of a certain mm that exceeds this (200mm).
- All adoptable laterals to be 1500 and VC unless stated otherwise

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ECE PROJECT No SCALE AT A1 STATUS SUITABLE FOR

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48404	- ECE	- XX	- XX	- DR	- C	0053 P01
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