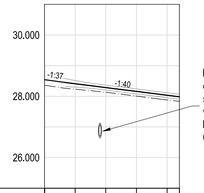
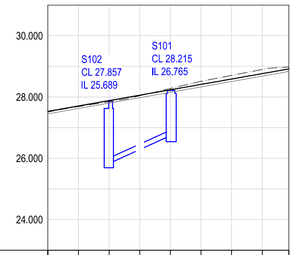


Existing surface water sewer. The Contractor is to confirm depth of the existing surface water sewer to ensure no clashing with the proposed surface water sewer at all crossings. Minimum cover to existing surface water sewer is to be 1.2m. Where cover is less than 1.2m, Class 'Z' bedding to be provided in accordance with detail on drawing no C85850-D107Contractor to confirm following sewer investigation on site.

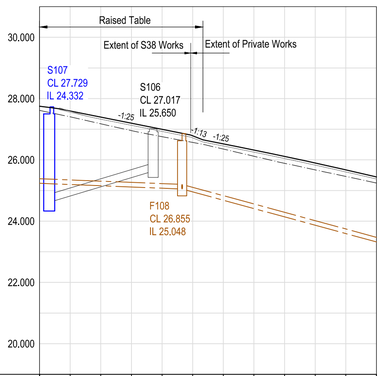
Chainage (m)	0.000	5.000	10.000	15.000	20.000	22.005
Existing Ground Levels (m)	28.358	28.229	28.133	28.006	27.879	27.834
Proposed Road ℄ Level (m)	28.541	28.409	28.284	28.159	28.034	27.984
Left Channel Level (m)		28.514	28.366	28.241	28.116	28.066
Right Channel Level (m)		28.299	28.203	28.078	27.953	27.903
Horizontal Alignment						
Vertical Alignment	Straight Gradient L=3.232m @ -1:37		Straight Gradient L=18.752m @ -1:40			
Road Profile	2.5% Crossfall to Right Side					
Foul Sewers						
Surface Water Sewers						

Road 2
H 500.000
V 100.000



Chainage (m)	0.000	5.000	10.000	15.000	20.000	25.000	30.000	35.000	39.336
Existing Ground Levels (m)	27.511	27.688	27.847	28.042	28.278	28.512	28.706	28.900	28.982
Proposed Road ℄ Level (m)	27.531	27.707	27.883	28.059	28.235	28.411	28.587	28.762	28.915
Left Channel Level (m)	27.450	27.626	27.802	27.978	28.154	28.329	28.505	28.681	28.834
Right Channel Level (m)	27.450	27.626	27.802	27.978	28.154	28.329	28.505	28.681	28.834
Horizontal Alignment									
Vertical Alignment									
Road Profile	Camber 2.5%								
Foul Sewers									
Surface Water Sewers			1.000 150 Ø @ 1:11 L=10.185m Vitrified Clay Class 'S' B&S						

Road 1 TH
H 500.000
V 100.000

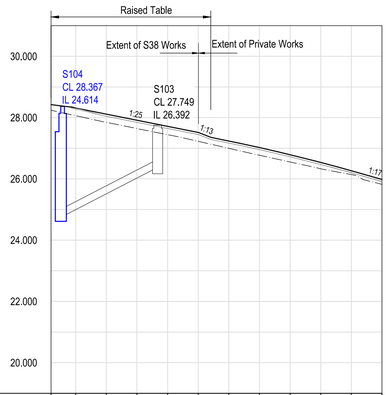


Chainage (m)	0.000	5.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000	55.000
Existing Ground Levels (m)	27.613	27.405	27.177	26.954	26.767	26.588	26.392	26.118	25.888	25.673	25.458	25.245
Proposed Road ℄ Level (m)		27.597	27.397	27.197	26.997	26.785	26.522	26.321	26.113	25.888	25.675	25.444
Left Channel Level (m)		27.552	27.329	27.129	26.929	26.717	26.454	26.252	26.044	25.829	25.606	25.375
Right Channel Level (m)		27.583	27.329	27.129	26.929	26.717	26.454	26.252	26.044	25.829	25.606	25.375
Horizontal Alignment	Straight L=110.937m											
Vertical Alignment		Straight Gradient L=21.430m @ -1:25					Crest L=25.000m Curve: K=33.120					
Road Profile		Straight Gradient L=2.000m @ -1:13			Camber 2.5%		Straight Gradient L=5.538m @ -1:25					
Foul Sewers			1.005 150 Ø @ 1:125 L = 34.499 Vitrified Clay Class 'S' B&S				1.006 150 Ø @ 1:18 L=38.575m Vitrified Clay Class 'S' B&S					
Surface Water Sewers		3.000 225 Ø @ 1:17 L=16.979m Concrete Class 120 Class 'S' B&S										

Road 3 Loop CH 0-30
H 500.000
V 100.000

Refer to drawing no. C85850-D132 for full extent of Road 3 Loop Road.

Foul pipes 1.000 - 1.016 to be adopted under a S185 sewer diversion agreement. For S185 foul water sewer diversion, refer to drawing no. C85850-D120 - D121. No S185 diversion works to be undertaken prior to Southern Water approval.



Chainage (m)	369.012	365.000	360.000	355.000	350.000	345.000	340.000	335.000	330.000	325.000	320.000	315.000
Existing Ground Levels (m)	28.240	28.061	27.846	27.641	27.442	27.274	26.996	26.770	26.551	26.329	26.139	25.921
Proposed Road ℄ Level (m)		28.312	28.113	27.913	27.714	27.514	27.206	27.022	26.789	26.537	26.266	25.979
Left Channel Level (m)												
Right Channel Level (m)												
Horizontal Alignment		Straight L=44.911m									Curve L=44.931m R=82.750m	
Vertical Alignment		Straight Gradient L=20.811m @ 1:25					Crest L=25.000m Curve: K=13.301				Sag L=25.000m Curve: K=5.400	
Road Profile		Straight Gradient L=2.000m @ 1:13			Camber 2.5%		Straight Gradient L=1.611m @ 1:25		Straight Gradient L=0.001m @ 1:17			
Foul Sewers												
Surface Water Sewers		2.000 225 Ø @ 1:10 L=15.811m Concrete Class 120 Class 'S' B&S										

Road 3 Loop CH 340-369.012
H 500.000
V 100.000

Notes:-

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Health and Safety Note:
The details on this drawing have been prepared on the assumption that a competent contractor will be carrying out the works. If the contractor(s) considers that there is insufficient Health and Safety information on this drawing, this should immediately be brought to the attention of the designer.

Legend:

- Proposed Finished Road Centreline Level
- Proposed Finished Road Channel Level
- Existing Ground Level
- Proposed S104 Foul Water Sewer
- Proposed S185 Foul Water Sewer Diversion
- Proposed S104 Surface Water Sewer
- Proposed S38 Highway Drain

Existing Utilities

The contractor shall refer to the existing and proposed services information, provided by Bellway Homes (Wessex).

It is the Contractor's responsibility to liaise with all relevant services companies to ensure that all existing services are accurately located and adequately protected during construction.

It is the Contractor's responsibility to liaise with the Developer and all relevant services companies to ensure that all new and diverted services are accurately located and adequately protected during construction.

All works to existing services to be undertaken as required by the Developer. Refer to Developer design.

Drainage & Road Layout Standard Drawing Notes

1. The contractor is to check and verify all buildings, site dimensions and levels, including sewer invert levels, before works start on site.
2. The contractor is to comply in all aspects with the current building legislation, British Standards, building regulations etc.
3. The contractor is to check the level of existing sewers which are to be used as an out-fall prior to commencement of any onsite drainage works. Any discrepancies are to be reported to the Engineer.
4. This drawing is to be read in conjunction with and checked against all other drawings, Engineering Details, specifications and any structural, geotechnical or other specialist document provided.
5. Any anomaly or contradiction between any of the above or difference between actual and drawn details is to be reported to Bellway Homes (Wessex)
6. Drainage to be adopted under Section 104 of the Water Industries Act 1991, shall be constructed and tested in accordance with Sewers for Adoption 6th Edition published by WRC plc and the combined addendum to SFA.
7. Roads, footpaths and parking areas which form part of the highway to be adopted under Section 278 or 38 of the Highways Act 1980 shall comply with the Hampshire County Council's Highway Specification and Standard Details.
8. All substrata structures and unconsolidated material within the road construction width to be removed
9. Formation preparation to be in accordance with Highways Agency Specification for Highway Works (SHW) cl. 616. No prepared formation to be continuously exposed to rain causing degradation below design CBR or to be left uncovered overnight.
10. Any soft, damaged or weak spots including peat contaminated material are to be excavated and replaced with SHW Type 1 in accordance with SHW cl.803 laid and compacted to cl.802, Table 8/4
11. Where ground conditions are deemed to be frost susceptible, refer to Ground Investigation report, carriageway thickness shall be 450mm minimum thickness. All material within 450mm of road construction to be non-frost susceptible.
12. Positions of existing services/statutory undertaker's apparatus adjacent to or crossing proposed sewers are to be checked by the contractor prior to starting work.

All adoptable drainage and highway works to be installed in accordance with;
- S104 & S185 Sewers - Sewers for Adoption 6th edition, including all applicable local Southern Water addendums
- S278 and S38 Highways - Hampshire County Council Specification and Standard Details.

Rev.	Date	Amendment	By	Chk.
E	07.12.18	Class 'Z' bedding note added. Highway drainage removed from Road 2.	CT	KM
D	22.10.18	Highway drainage colour revised to black.	CT	KM
C	12.10.18	S185 foul sewer diversion colour changed, noted added.	CT	KM
B	28.09.18	Surface water drainage updated to suit Wehollite oversize pipes.	CT	KM
A	13.09.18	Field access longitudinal section added. Status revised to construction issue.	CT	KT

Status: Construction

Bellway

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Client	Bellway Homes
Job	Bartons Road Havant, Hampshire
Title	Longitudinal Sections Sheet 2 of 2
Scale	As shown @ A1
Date	July 2018
Drawn by	CT
Checked by	KT
Approved by	KT

Accredited Contractor — Supplier No. 000024

Drawing No. C85850-D103 — Rev. E

QA Ref. QD019 Rev D