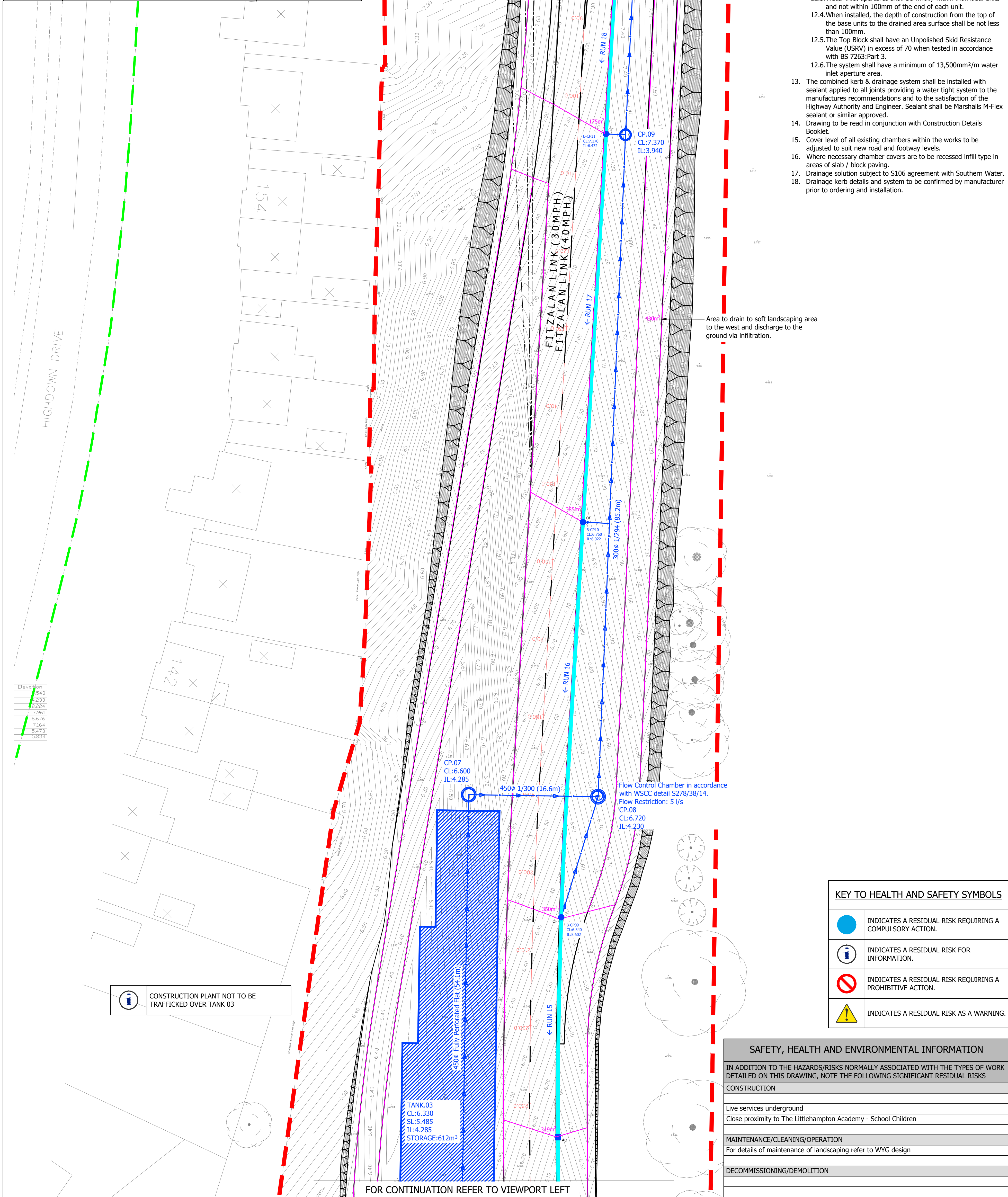


Wipac Brown Limited Unit 10, Oneiro Road, Welling, Surrey GU24 0AA Telephone: 01883 550 300 Fax: 01883 755 031 www.wipacbrown.co.uk				project NORTH LITTLEHAMPTON SOUTHERN BYPASS WORKS client PERKINSON HOMES THAMES VALLEY doc reference PMLH_2M5																
SITE SURFACE WATER SCHEDULE																				
Manhole Ref	Internal Manhole Code	Manhole Type	Manhole Material	Centre Level (m AOD)	Invert Level (m AOD)	Depth to Invert (m)	Depth to Surface (m)	Drainage Pipe Details				Manhole Cover Details			Inflowing Pipe Details		Overflows Pipe Ref	Setting out Coordinates Easting		
								No. of Pipes	Pipe Length (m)	No. of Joints (1:1)	Bedding Class	Material	Strength Class	Frame Detail	Chamber Detail	Manhole Size			Manhole Inlet	Manhole Outlet
SURFACE WATER																				
CP-01	10000a	CP	Pre-Cast Concrete	7.35	5.178	1.482	1.182	300	90.00	250	T	UPVC	D400	Inter-Axial, 150mm	Solid Top	675	225 B-CP02 B-CP03	CP-02	30140.201	100981.363
CP-02	10000a	CP	Pre-Cast Concrete	7.14	5.418	1.722	1.347	375	85.00	300	T	UPVC	D400	Inter-Axial, 150mm	Solid Top	675	225 B-CP04	CP-03	30134.981	100771.212
CP-03	10000a	CP	Pre-Cast Concrete	6.54	5.135	1.458	1.038	375	85.00	300	T	UPVC	D400	Inter-Axial, 150mm	Solid Top	675	375 CP-04	CP-04	30132.122	100595.000
CP-04	10000a	CP	Pre-Cast Concrete	6.42	4.652	1.548	1.030	450	80.00	300	T	UPVC	D400	Inter-Axial, 150mm	Solid Top	675	375 CP-05	CP-05	30131.772	100490.951
CP-05	10000a	CP	Pre-Cast Concrete	6.22	4.585	1.635	1.185	450	65.14	300	T	UPVC	D400	Inter-Axial, 150mm	Solid Top	675	450 CP-06 CP-07	CP-06A	30114.433	100203.365
CP-06A	10000a	CP	Pre-Cast Concrete	6.20	4.267	1.833	1.933	300 300	68.18 68.18	250 250	Z Z	UPVC	D400	Inter-Axial, 150mm	Solid Top	675	450 CP-08	CP-08	30107.296	100085.581
CP-08B	10000a	CP	Pre-Cast Concrete	6.28	4.529	1.621	1.471	450	16.41	256	T	UPVC	D400	Inter-Axial, 150mm	Solid Top	675	300 CP-09A CP-09B	CP-09A	30108.398	100060.716
CP-06	10000a	CP	Pre-Cast Concrete	6.35	4.285	2.065	1.615	450	54.10	Flat	See detail F006	UPVC fully protected	D400	Inter-Axial, 150mm	Solid Top	675	450 CP-08B	CP-07	30104.568	100110.022
CP-07	10000a	CP	Pre-Cast Concrete	6.00	4.395	2.315	1.965	450	18.50	300	T	UPVC	D400	Inter-Axial, 150mm	Solid Top	675	450 CP-08	CP-08	30103.430	100164.080
CP-08	10000a	CP	Pre-Cast Concrete	4.92	4.230	2.890	2.160	300	85.50	284	T	UPVC	D400	Inter-Axial, 150mm	Solid Top	675	450 CP-09	CP-09	30102.062	100163.620
CP-09	10000a	CP	Pre-Cast Concrete	7.32	5.660	0.860	0.710	300	Overflow Pipe see VSS02 detail 307630/614	300	T	UPVC	D400	Inter-Axial, 150mm	Flat	675	300 CP-08	CP-08	30121.565	100248.380

Notes		
SW/G	Proposed Surface Water Inspection Chamber Reference	
PW #	New Foul Manhole reference	
Ex. SW	Existing Surface Water Manhole	
Ex. PW	Existing Foul Sewer Manhole	
G#	Proposed Gully	
RWP	Rainwater Pipe	
CP	Culvert	
M#1	Manhole	
225 pe#	Sewer diameter with perforated pipe	
PF#G	Proposed Frame and Cover	
uPVC	uPVC, Rigidcast or similar	

Designed in accordance with Sewers for Adoption 7th Edition

Revision	Date	Amendments	Prepared J.S. Date	Checked SL Date	Approved Date
P1	29/03/2016	Initial issue. (JC)			
P2	30/05/2016	Changes following Highway comments & design of section between roundabouts PLYMTH (JS)			
P3	06/07/2016	Minimize ref not applicable to drawing removed from schedule. (JB)	18/04/2019	18/04/2019	
P4	05/10/2016	Updated pipe bedding class to Type T. (JB)			
P5	01/11/2016	Infiltration trench removed, tank added, chambers and pipes altered			
P6	18/04/2019	Catchpits CP 05A and CP 02B added			
			STATUS REVISION	FOR APPROVAL P6	



1. Topo survey has been taken from MB drawing R.P. PL11TTE.2.21 Rev A received 23/01/15 and WYGW survey drawing numbered G9P4H04422/10/15 dated 07/07/08.
2. Soil landscaping has been taken from WYGW drawing numbered A08461.S1.B1 dated August 2007.
3. Southern Link road taken from PBA drawing numbered 2001.001.001 dated 12/07/08.
4. For details of traffic signal design refer to drawing PLY-MB-S278/GF-DK-D14.
5. This drawing is not to be scaled.
6. This drawing is to be read in conjunction with all other relevant engineering and landscaping drawings. Any discrepancies are to be referred to the project engineer.
7. All drainage installers, materials and workmanship specification to be undertaken in accordance with Sewers for Adoption 7th Edition Appendix 51, 53, 5/4 and 5/5 of the Specification Document.
8. It is the contractor's responsibility to undertake pressure tests on the system at every drainage manhole and on manholes on pipes cast up to 750mm diameter must be witnessed by the Highway Agency inspector.
9. Contractor to undertake CCTV survey prior to Part 2 completion of the sewerage system and issue a Part 2 completion certificate being signed off and issued by the Engineer.
10. The combined kerb & drainage system shall be Marshalls Beary BS 67, manufactured pre-cast concrete with the exception of certain frames which are manufactured in cast iron as supplied by Marshalls Mono Hail, Halifax HX3 9HT in accordance with Standard Specification for BS EN 124.
11. The combined kerb & drainage shall consist of a two part system consisting of top blocks with a straight backed half hatched profile and bottom blocks with a straight backed half hatched profile. The kerb height shall be 100mm and the depth shall be 205mm deep. The overall width of the system shall be not less than 430mm.
12. All components of the Beary system, shall comply with the British Agency for Road Works and the documents of the Highway Works and the British Standard BS EN1433, Load classification D400 and the following:
 - 12.1. The traffic load shall increase in size towards the middle of the wheel with a minimum divergence angle of 5°.
 - 12.2. The angle of incline of the wheel inlet aperture shall be at least 30° to the horizontal.
 - 12.3. Water temperatures shall be wholly within individual units and within not 100mm of the end of each unit.
 - 12.4. When installed, the depth of destruction from the top of the base to the drained area surface shall be not less than 100mm.
 - 12.5. The Top Block shall have an Unpolished Shore Resistance (USRP) in excess of 70 when tested in accordance with BS 7263-Part 3.
 - 12.6. The system shall have a minimum of 13,500mm²/m water area.
13. The combined kerb & drainage system shall be installed with sealant applied to all joints providing a water tight system to the satisfaction of the Highway Agency and the Highway Agency Engineer. Sealant shall be Marshalls H-Flex sealant or similar approved.
14. The system to be read in conjunction with Construction Details Booklet.
15. Cover level of all existing chambers within the works to be added to suit new road and footway levels.
16. Where necessary, the system shall be to be recessed infill type in areas of slab / block paving.
17. Drainage solution subject to S166 agreement with Southern Water. Drainage solution shall be to be performed by manufacturer prior to ordering and installation.

A0 ORIGINAL

KEY

- EXISTING KERB LINE
- PROPOSED KERB/EDGING LINE
- PROPOSED DROPPED KERB
- PROPOSED ROAD MARKING
- PROPOSED EARTHWORK EMBANKMENT
- PROPOSED 150mm GULLY CONNECTION
- PROPOSED HIGHWAY DRAIN
- PROPOSED ATTENUATION TANK - REFER TO MB DETAIL PHF-MB-S278-GF-DR/F05
- PROPOSED GULLY - 150mm THICK GRATE, REFER TO WSSC DETAIL 278/38/11
- PROPOSED HIGHWAY DRAINAGE CATCATCH - REFER TO WSSC DETAIL 278/38/13
- PROPOSED HIGHWAY DRAINAGE VORTEX FLOW CONTROL CHAMBER - REFER TO WSSC DETAIL 278/38/14
- PROPOSED MARSHALLS BEANY 205 BASE UNIT AND HB2 TOP BLOCK LINEAR DRAIN, OR SIMILAR APPROVED - REFER TO MB DETAIL PHF-MB-S278-GF-DR/F02
- PROPOSED MARSHALLS BEANY DROPPED CROSSING UNIT AND BN PRECAST CONCRETE KERB TOP BLOCK, OR SIMILAR APPROVED - REFER TO MB DETAIL PHF-MB-S278-GF-DR/F04
- PROPOSED MARSHALLS BEANY DROPPED CROSSING UNIT AND RAKER PRECAST CONCRETE KERB TOP BLOCK, OR SIMILAR APPROVED - REFER TO MB DETAIL PHF-MB-S278-GF-DR/F04
- PROPOSED MARSHALLS BEANY CAST IRON ACCESS COVER, OR SIMILAR APPROVED - REFER TO MB DETAIL PHF-MB-S278-GF-DR/F02
- PROPOSED MARSHALLS BEANY CAST IRON ACCESS COVER WITH END CAP, OR SIMILAR APPROVED - REFER TO MB DETAIL PHF-MB-S278-GF-DR/F02
- PROPOSED MARSHALLS BEANY CATCATCH OUTFALL, OR SIMILAR APPROVED - REFER TO MB DETAIL PHF-MB-S278-GF-DR/F03
- ASBUILT DRAINAGE INFORMATION TAKEN FROM WSSC DRAWING NUMBERED 507344_501

FOR CONSTRUCTION

P9	Catchpits CP 05A and CP 05B added to plan and schedule. (SL)	AB	18/04/2019
P8	Manhole schedule updated to show CP-01, 03.	AB	09/04/2019
P7	Infiltration trench removed, attenuation tank added, pipes and chambers amended. Heavy block rakers added. Key updated. MH schedule updated. (S)	AB	01/11/2018
P6	Drawing updated following comments from WSCC, dated 09/03/2018 & 20/03/2018. (OJN)	AB	01/06/2018
P5	2D plan information updated following planning approval. (OJN)	AB	15/01/2018
P4	Earthworks amended following comments from WSCC, dated 05/07/2017. (OJN)	AB	27/07/2017
P3	Contours updated. (OJN)	AB	22/07/2016
P2	Updated in accordance with Marshall's comments. (SL)	AB	26/05/2016

rev.	amendment	checked	date
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PERSIMMON HOMES THAMES VALLEY

project

NORTH LITTLEHAMPTON PHASE 2
FITZALAN LINK S278 WORKS

scale	1:250 @ A0	drawn by	PB	checked by	AB
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date	MARCH 2016	cad file	212-02-P9.DWG
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title

PROPOSED S278 HIGHWAY WORKS
DRAINAGE DRAWING (2 OF 2)

drawing number	rev.
PHF-MB-S278-GF-DR-D-212-02	P9