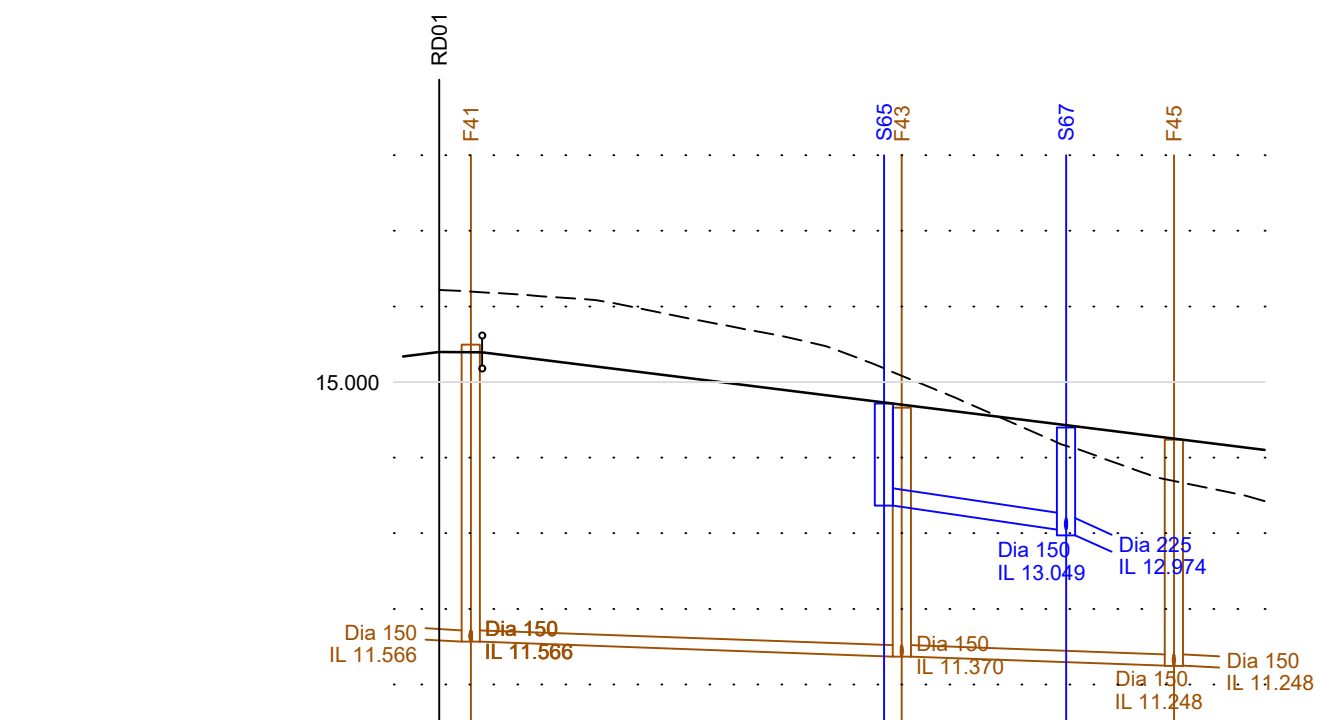
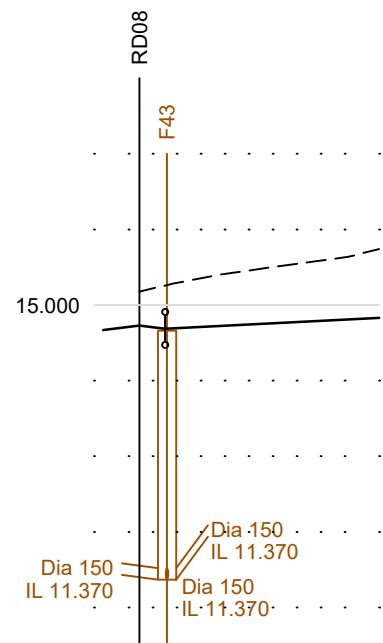
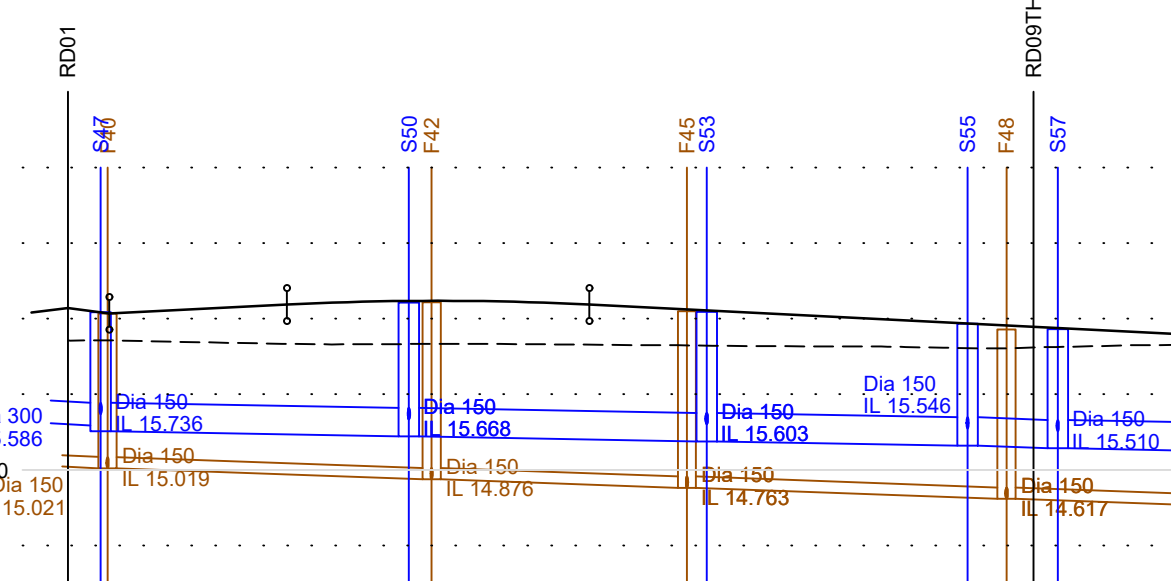




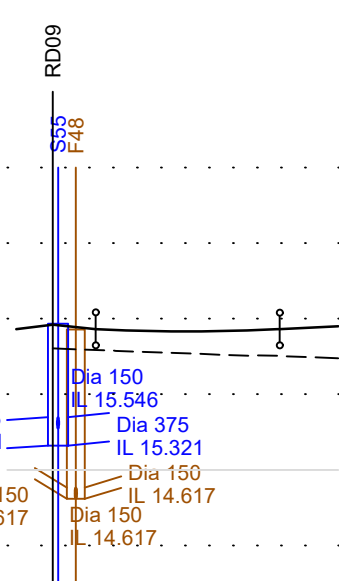
RD08		DATUM 10.000							
CHAINAGE	0.000	2.093	2.830	10.000	20.000	29.415	30.592	40.000	41.463
EXISTING GROUND LEVEL	16.218		2.830	10.000	15.715	15.137		14.478	14.463
ALIGNMENT LEVEL	15.395		15.215	14.965	14.715		14.485	14.215	14.101
VERTICAL ALIGNMENT		G = -2.500%							
		1:40.0							
HORIZONTAL ALIGNMENT		R = 34.059							
STORMWATER COVER LEVEL					14.718			14.399	
STORMWATER DETAILS					13.368	Dia 225 CLAY 1 in 37 11.710		13.049	
FOULWATER COVER LEVEL	15.494				14.660			14.239	
FOULWATER DETAILS	11.666		Dia 150 CLAY 1 in 150 29.334		11.370		Dia 150 CLAY 1 in 150 18.337		11.248



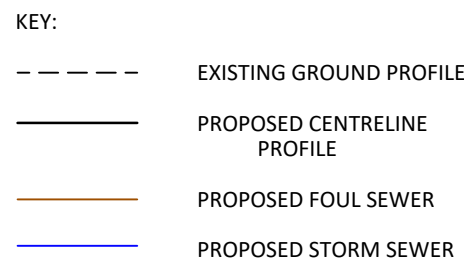
RD08TH		DATUM 10.000			
CHAINAGE	0.000 1.702		1.628	10.000	15.852
EXISTING GROUND LEVEL	15.177		15.533	10.000	15.740
ALIGNMENT LEVEL	14.688		14.771		14.829
VERTICAL ALIGNMENT		G= 1.000%			
		1: 100.0			
HORIZONTAL ALIGNMENT					
STORMWATER COVER LEVEL					
STORMWATER DETAILS					
FOULWATER COVER LEVEL	14.690				
FOULWATER DETAILS					



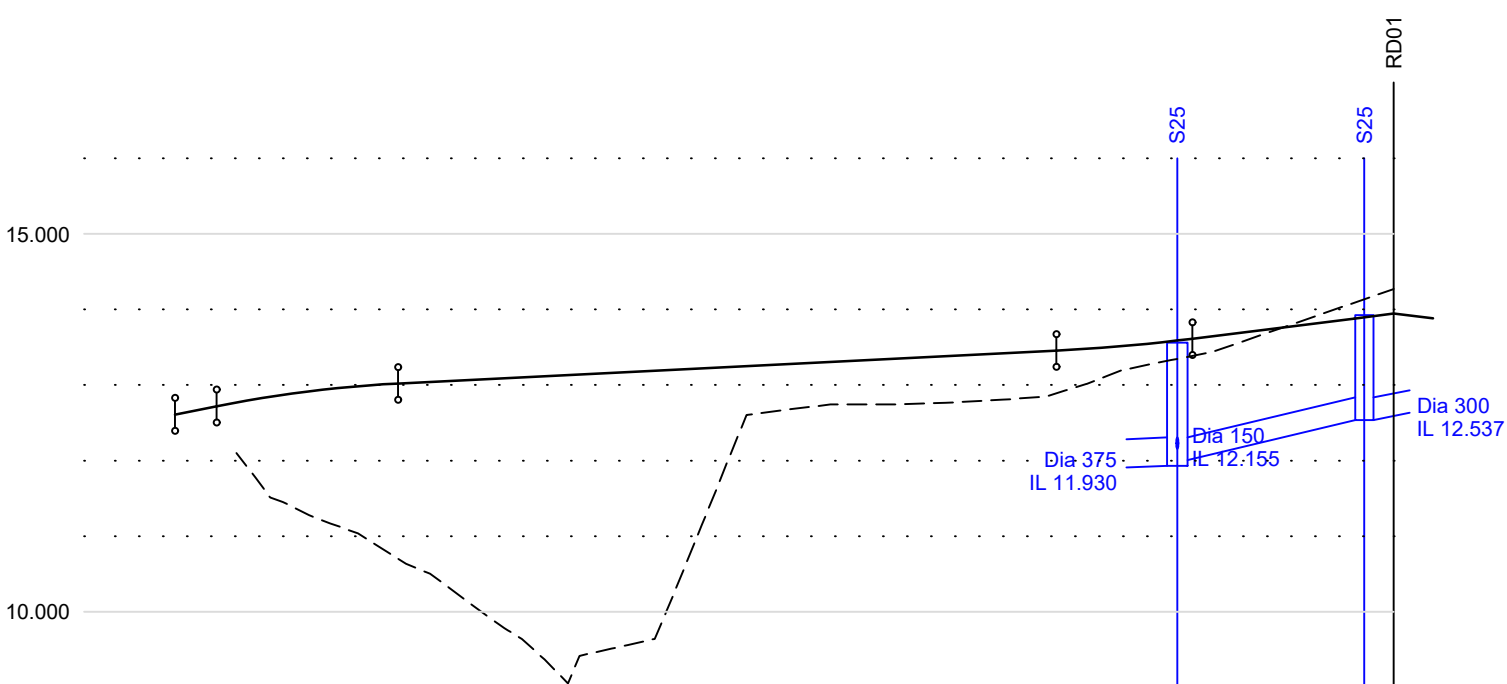
RD09	DATUM	13.000																							
			0.000	2.749	10.000	14.482	15.000	20.000	22.558	24.482	30.400	34.482	38.444	40.944	42.252	50.000	53.390	55.428	59.506	62.081	65.886	68.371	67.819	70.000	73.284
CHAINAGE			16.712		16.663			16.662		16.663			16.650		16.653				16.609				16.631	16.647	16.652
EXISTING GROUND LEVEL				17.069	17.141	17.186	17.191	17.226	17.236	17.236	17.221	17.186	17.131		17.031				16.931				16.831	16.847	16.852
ALIGNMENT LEVEL																									
VERTICAL ALIGNMENT				G= 1.000% 1: 100.0			L= 20.000 KF= -10.0								G= -1.000% 1: -100.0										
HORIZONTAL ALIGNMENT										R= 177.950			R= 34.050		R= 1.050		R= 14.050								
STORMWATER COVER LEVEL		17.086					17.213					17.092				16.932							16.860		
STORMWATER DETAILS		15.511		Dia 375 CONC 1 m 300 20.387	15.443	15.443		Dia 375 CONC 1 m 300 19.583	15.378	15.378	Dia 375 CONC 1 m 300 17.038	15.321	Dia 375 CONC 1 m 300 5.768	Dia 375 CONC 1 m 300 21.490											
FOULWATER COVER LEVEL		17.070					17.215				17.100		16.855												
FOULWATER DETAILS		15.019		Dia 150 CLAY 1 m 150 21.432	14.676	14.676		Dia 150 CLAY 1 m 150 16.957	14.763	14.763	Dia 150 CLAY 1 m 150 21.918	14.617	14.617	Dia 150 CLAY 1 m 150 25.864											



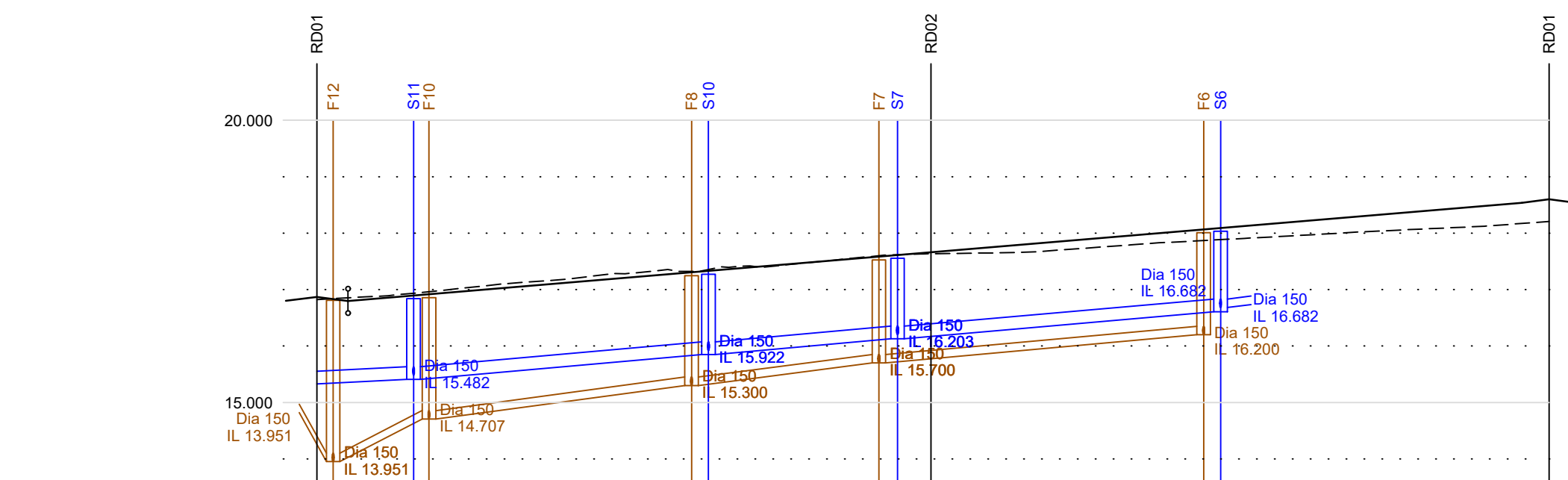
RD09TH		DATUM 13.000 -		LP	
CHAINAGE	10.000 7.500 5.000	16.608	16.603 16.845 16.831	16.832 16.832 16.832	10.000 15.000 15.002 18.887 16.477
EXISTING GROUND LEVEL					
ALIGNMENT LEVEL					
VERTICAL ALIGNMENT				KF= 6.0 L= 12.156	G= .0005 1: 100.0
HORIZONTAL ALIGNMENT					
STORMWATER COVER LEVEL	16.932				
STORMWATER DETAILS					
FOULWATER COVER LEVEL	16.855				
FOULWATER DETAILS					



**ALL PIPE BEDDING TO BE
CLASS 'S' GRANULAR
SURROUND UNLESS NOTED
OTHERWISE ON THE
DRAWING**



BRDG										DATUM 8.000																						
CHAINAGE		0.000		3.922		5.775		10.000		15.000		17.775		20.000		30.000		40.000		50.000		61.304		65.000		68.932		70.304		80.000		83.616
EXISTING GROUND LEVEL								11.483				10.486				9.428		12.201		12.743		12.838								14.016		13.880
ALIGNMENT LEVEL		12.609		12.719				12.866		12.982		13.019		13.041		13.141		13.241		13.341		13.441		13.454		13.503		13.604		13.612		13.854
VERTICAL ALIGNMENT		G = 4.000%		L = 12.000		KF = -4.0										G = 1.000%								KF = 6.0						G = 2.500%		
		1: 25.0																1: 100.0						L = 9.000				1: 40.0				
HORIZONTAL ALIGNMENT																						R = 17.000										
STORMWATER COVER LEVEL																						13.561				13.525						
STORMWATER DETAILS																						12.005		Dia 300 CLAY 1 in 25 13.409		12.537						

[illegible]

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DRAINAGE NOTES: consent.

1. Do not scale.
2. Refer to all other Project Drawings and supporting notes.
3. All adoptable drainage works to be constructed as detailed in Section 10 for Adoption, 7th edition or as stipulated in the Water Authorities Addendum.
4. All public sewers are to be the subject of a Section 104 agreement of the Water Industry Act 1991.
5. Invert levels of existing manholes and sewers are to be checked on site before construction commences and results reported to engineers.
6. The Contractor is responsible for maintaining continuity of flow for all existing sewers within the site boundary and limit of works for the duration of the project.
7. All new sewer inlets are to comply with BS EN124, and be stamped, with BSI Tickmark. Covers to suit BS EN124, and be stamped;
 - Carriageways and Drains - D400
 - Driveways and Verges - C250
 - Footways and Pedestrian Areas - B125
 - Gardens/Landscaping - A15
8. All sewer pipes, up to, and including 225mm are to be vitrified clay to BS EN259. All sewer pipes 300mm diameter and above to concrete pipes to BS EN1916.
9. All drainage shall be installed and tested strictly in accordance with the following: printed instructions, BS EN752, BS EN1601, Local Water Authority requirements and the Building Regulations.
10. All bedding shall be Class 5 unless noted otherwise.
11. All trenches under existing and proposed public highways are to be backfilled with thoroughly compacted Type 1 granular sub-base material.
12. Drainage laid beneath roads and areas of vehicular access (car parking etc) with less than 1200mm of cover shall be encased in concrete bed and surround with associated movement joints. Drainage laid beneath paths, footways and pedestrian areas with less than 900mm of cover shall be similarly treated.
13. Chambers with outgoing pipes greater than 600mm diameter shall be fitted with guard bars, safety chains or other approved safety devices.
14. The use of precast concrete products made with sulphate resisting cement is mandatory, unless a laboratory report proves such precautions are not necessary.
15. All gully connections to use a minimum diameter pipe of 150mm and to be surrounded by a minimum of 150mm of grade C8/10 concrete over its full length (which should not exceed 15m) and its bedding to suit the carrier.
16. All sewers to be abandoned must be surveyed to identify any lateral connections that are still live with any found to be reported to the Engineer.
17. All laterals to be 150mm laid at 1:80 (surface) or 1:60 (foul) unless otherwise stated.
18. All private drains to be 100mm diameter (unless otherwise stated).
19. All foul and storm water drains which are not to be adopted as public sewers shall be in accordance with Document H of the Building Regulations, together with NHBC Standards Chapter 5.3 and BS EN12286.
20. Where pipes pass through footings, retaining or screen walls, lintels to be provided over drains.
21. Where inverts are less than 0.6m deep inspection chambers (min dia. 190mm) or access fittings (225 x 100mm) to be used, unless proprietary or alternative type is approved and used in accordance with Building Regulations (225 x 100mm) of the Building Regulations [$<0.6m$ to invert min DN300, $>0.6m$ to invert min DN475].
22. All gullies connected directly to drains to be roddable.
23. Rainwater downpipes to be easily removable for rodding or to be provided with rodding access at ground level.
24. Unless noted otherwise FW IC's and RE's to be 0.6m below DPC level, SW IC's and RE's to be 0.45m.
25. Adequate precautions in accordance with Approved Document H and BS EN12286 to be taken to ensure that the type to be installed protects drains (particularly sludge) at shallow depths.
26. Catchpits to be as IC's but with 300mm spig below outgoing pipe invert level except where detailed elsewhere.
27. Trees and shrubs of a large size or heavy canopy with a moderate or high root demand must not be planted within any sewer easement.
28. Gullies within and adjacent to area of site works to be suction cleaned at commencement and completion of works.
29. All drains and sewerage pipes to be installed vertically along the back edging kerb of all areas of footway/ demarcation to protect from both proposed and future plantiation.

PERMITTED PIPE MATERIALS

CLAYWARE (FOR SEWERS 150mm & 225mm)

All clayware pipes to be vitrified clay to BS EN 295-1:1991 and of minimum crushing strength of 45kN Class 200 for diameters of 225mm. For 150mm diameter pipes a minimum crushing strength of 28kN shall be used.

CONCRETE (FOR SEWERS 300mm AND ABOVE)
All concrete pipes are to be pipe strength Class 120 to BS 5911-1:2004 unless indicated otherwise on the drawings.

P3	10.20	Horizontal alignments updated with vertical alignment amended to suit, RD10 added and drainage updated	SM	SL
P2	06.20	RD09 and RD09TH horizontal alignment updated with vertical alignment and drainage layout amended to suit	SM	SL
P1	05.20	First issue	SM	SL
Rev	Date	Description	Drawn	Checked



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BARRATT DAVID
WILSON HOMES

Project

WATER LANE, ANGMERING

Title
LONG SECTIONS
SHEET 4

Status	FOR APPROVAL
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Scale 1:500 H @ A1 1:100 V	Date MAY 2020	Drawn SM	Checked SL
Drawing No A290-RM-114			Revision P3