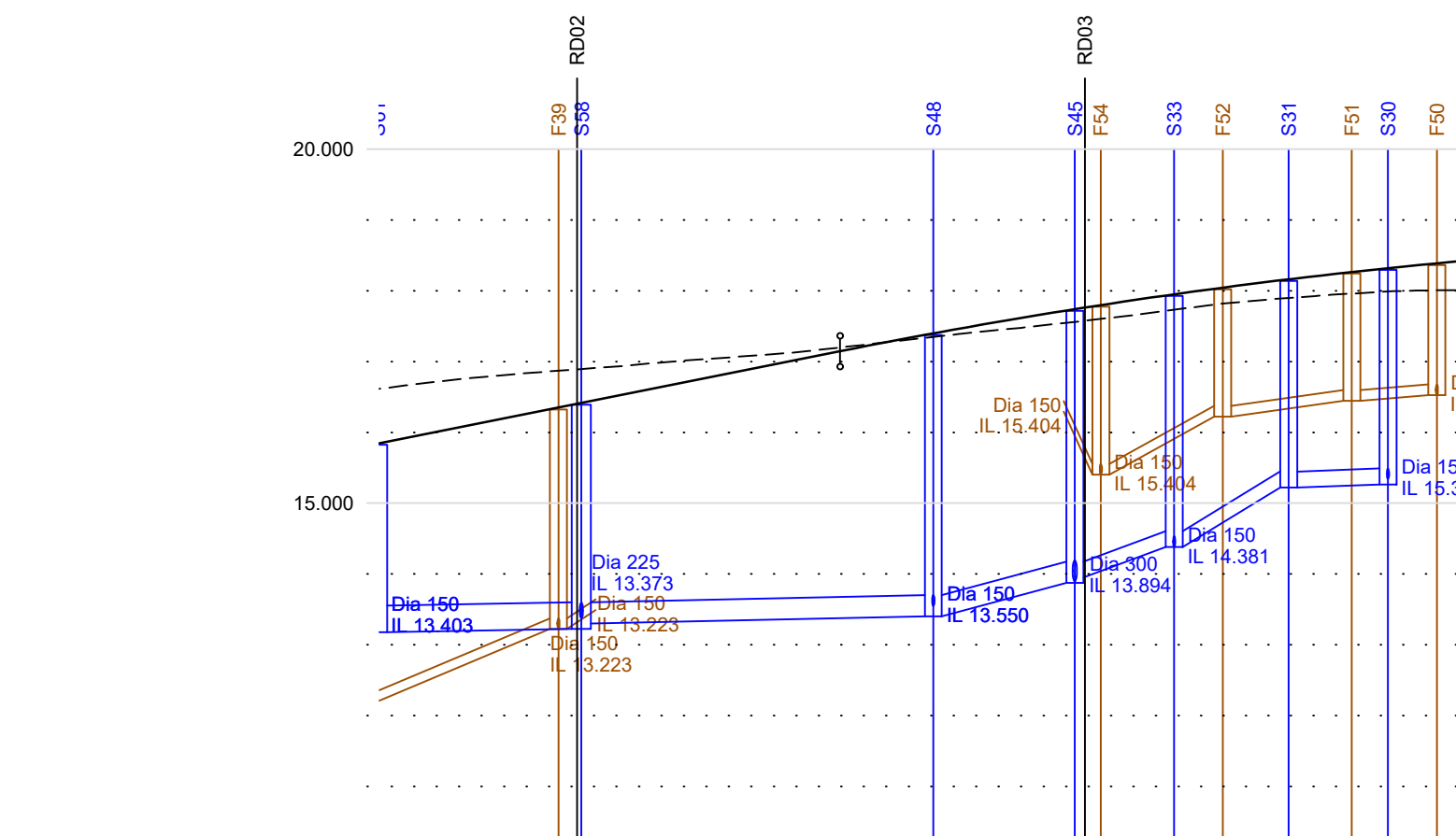
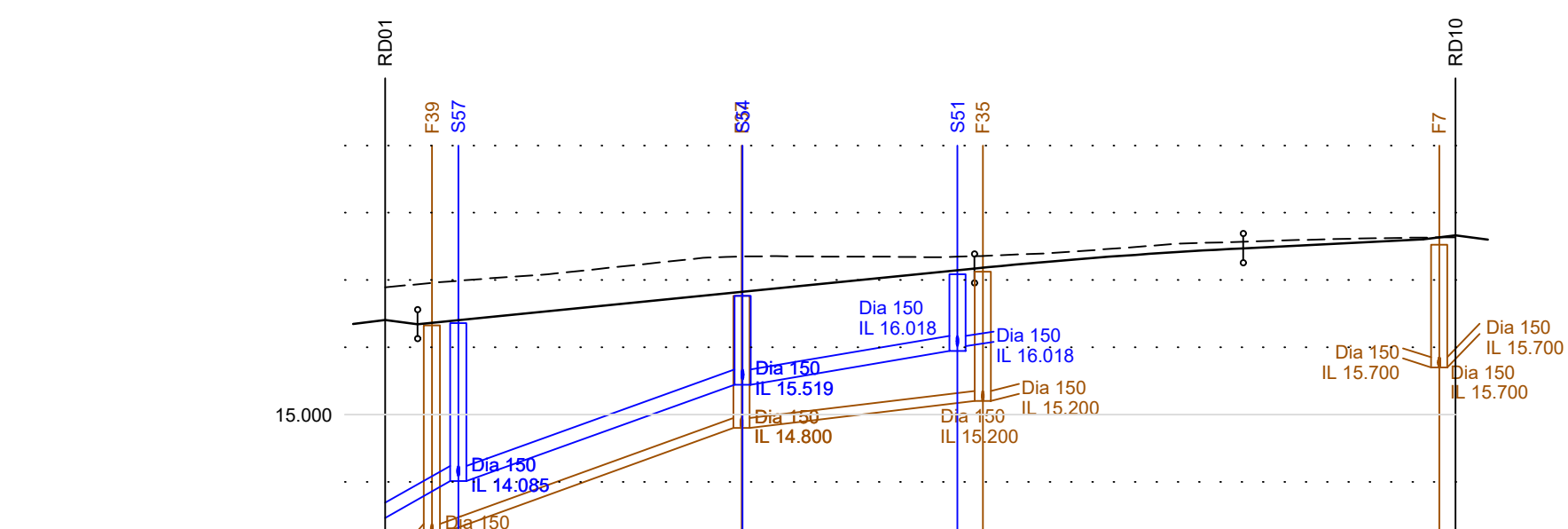
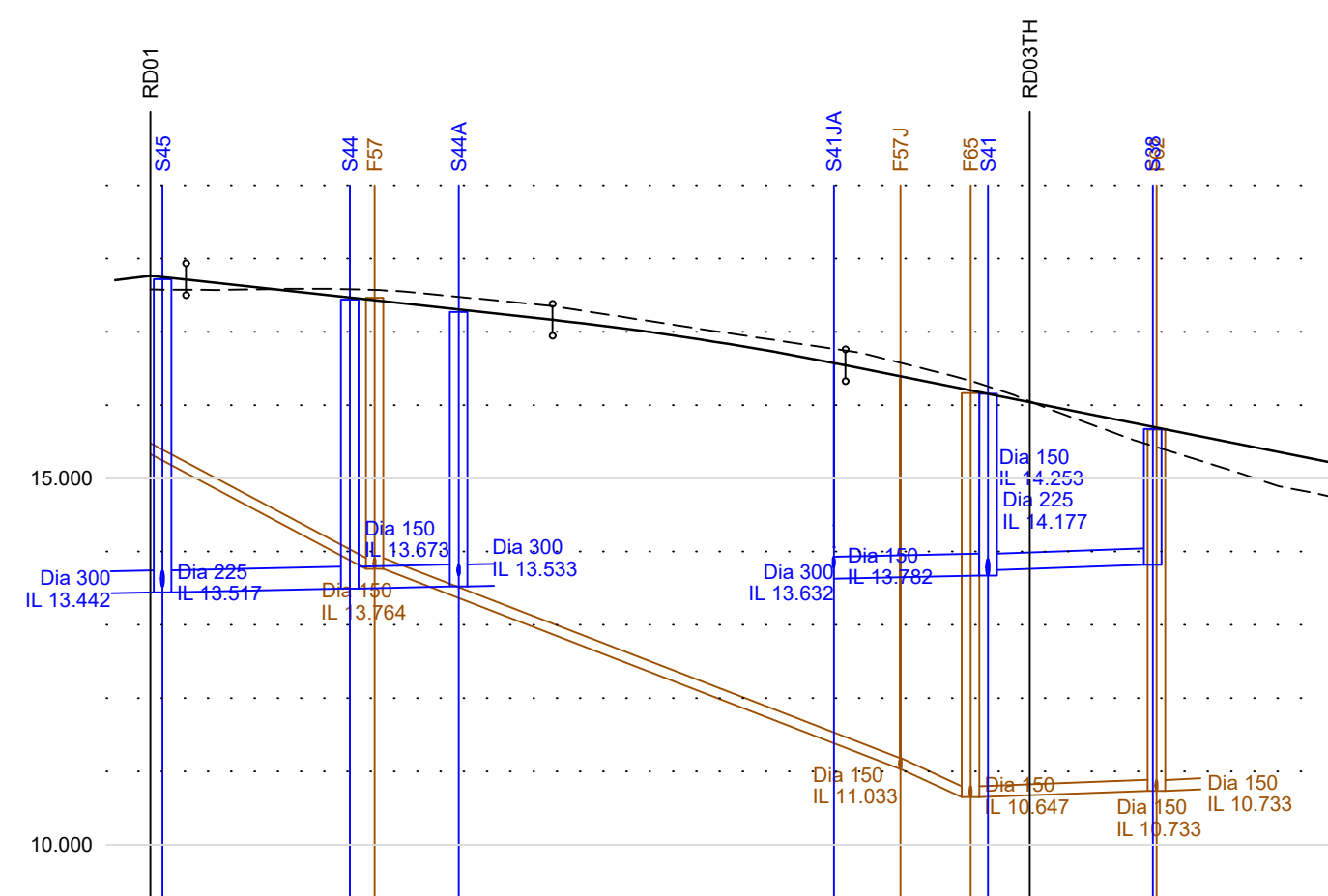




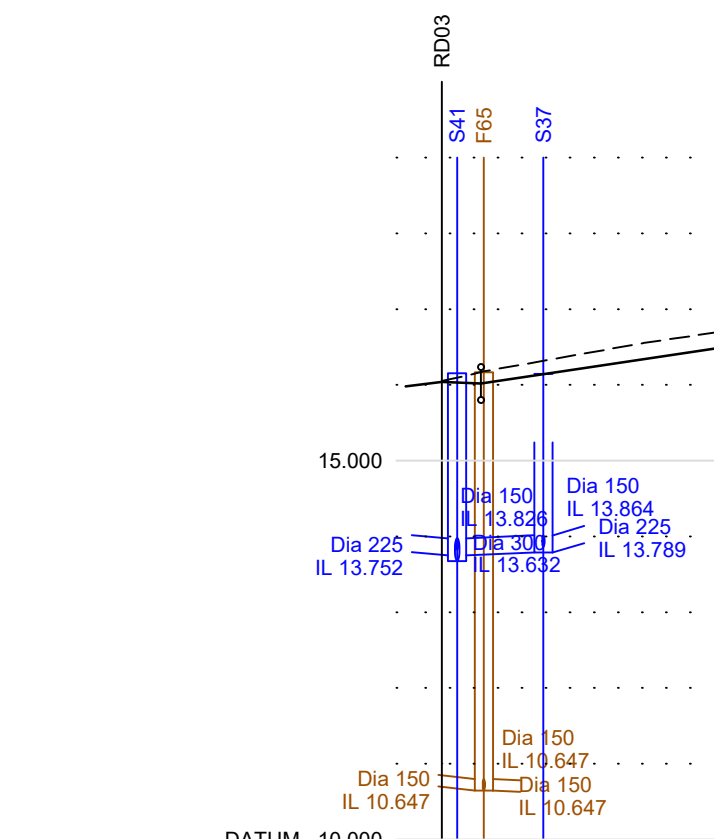
RD01		DATUM 10.000					
CHAINAGE		650.000		655.928		659.711 661.522	664.828
EXISTING GROUND LEVEL		16.678		16.807		16.839	17.026
ALIGNMENT LEVEL		15.942		16.342		16.742	17.026
VERTICAL ALIGNMENT	.000%	25.0				L = 43.449 KF = -20.0	
HORIZONTAL ALIGNMENT	$\alpha = 17.600$					R = 20.400	
STORMWATER COVER LEVEL			16.393		17.376	17.716	
STORMWATER DETAILS	13.178 Dia 375 CONC 1 in 321 14.355	13.223	13.298	Dia 300 CLAY 1 in 242 24.854	13.400	Dia 300 CLAY 1 in 222 10.284	13.478 Dia 225 CLAY 1 in 169 7.317
FOULWATER COVER LEVEL		16.324			16.776	17.022	18.295
FOULWATER DETAILS	Dia 150 CLAY 1 in 13 21.738	13.223			16.222	Dia 150 CLAY 1 in 38 8.678	Dia 150 CLAY 1 in 72 5.729



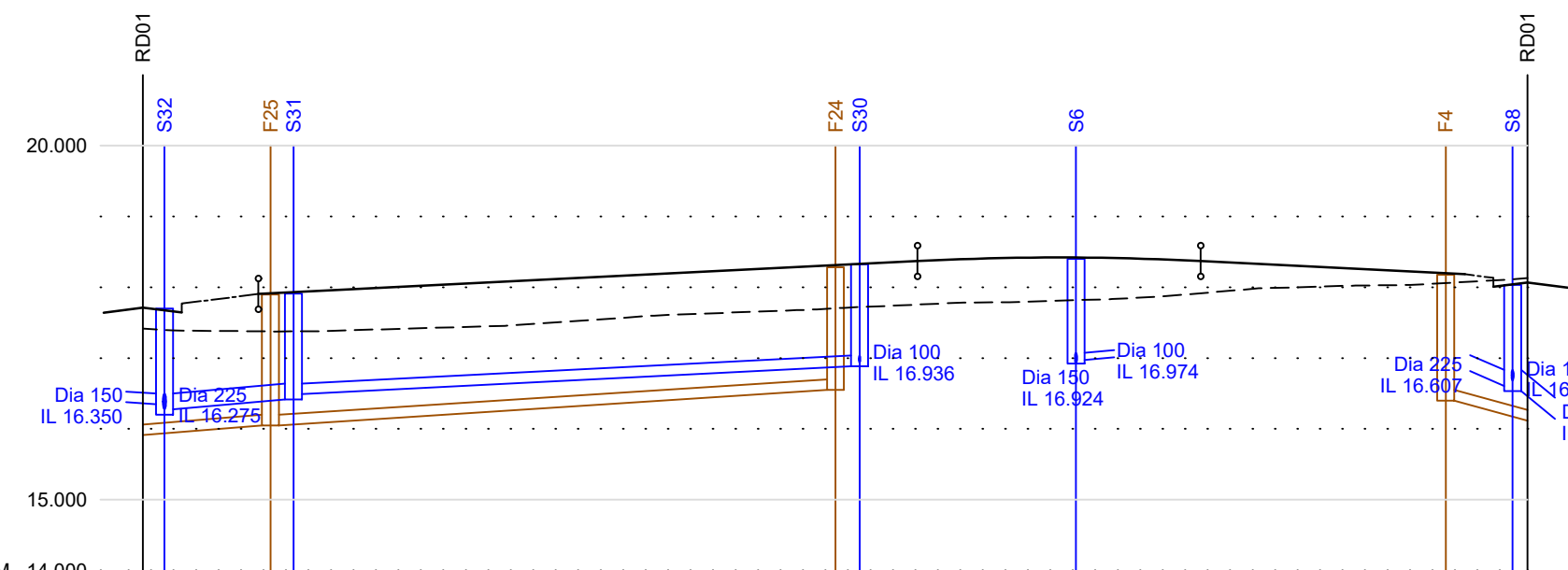
RD02		DATUM 13.000		Dia 150 1:13.223		Dia 225 1:13.223		Dia 300 1:13.223		Dia 375 1:13.223		Dia 450 1:13.223		Dia 525 1:13.223		Dia 600 1:13.223		Dia 675 1:13.223		Dia 750 1:13.223		Dia 825 1:13.223		Dia 900 1:13.223		Dia 975 1:13.223		Dia 1050 1:13.223		Dia 1125 1:13.223		Dia 1200 1:13.223		Dia 1275 1:13.223		Dia 1350 1:13.223		Dia 1425 1:13.223		Dia 1500 1:13.223		Dia 1575 1:13.223		Dia 1650 1:13.223		Dia 1725 1:13.223		Dia 1800 1:13.223		Dia 1875 1:13.223		Dia 1950 1:13.223		Dia 2025 1:13.223		Dia 2100 1:13.223		Dia 2175 1:13.223		Dia 2250 1:13.223		Dia 2325 1:13.223		Dia 2400 1:13.223		Dia 2475 1:13.223		Dia 2550 1:13.223		Dia 2625 1:13.223		Dia 2700 1:13.223		Dia 2775 1:13.223		Dia 2850 1:13.223		Dia 2925 1:13.223		Dia 3000 1:13.223		Dia 3075 1:13.223		Dia 3150 1:13.223		Dia 3225 1:13.223		Dia 3300 1:13.223		Dia 3375 1:13.223		Dia 3450 1:13.223		Dia 3525 1:13.223		Dia 3600 1:13.223		Dia 3675 1:13.223		Dia 3750 1:13.223		Dia 3825 1:13.223		Dia 3900 1:13.223		Dia 3975 1:13.223		Dia 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RD03		DATUM 9.000											
CHAINAGE		0.000 2.235											
EXISTING GROUND LEVEL	17.576		17.586	8.795	10.000	13.819	17.139	20.000	21.055	27.488	30.000	35.000	40.000
ALIGNMENT LEVEL	17.714		17.547							17.163	17.104	16.972	16.817
VERTICAL ALIGNMENT		G= -2.200%				L= 20.000 KF= -11.11111				G= -4.000%			
HORIZONTAL ALIGNMENT			R= 13.400								R= 12.400		
STORMWATER COVER LEVEL	17.716		17.439				17.271				16.555		
STORMWATER DETAILS	13.442	Dia 300 CLAY 1 in 246.6	13.483 1 in 237.9	Dia 300 CLAY 1 in 237.9	13.523 1 in 237.9	13.563 1 in 237.9	13.603 1 in 237.9	13.643 1 in 237.9	Dia 300 CLAY 1 in 237.9	13.683 1 in 237.9	13.723 1 in 237.9	Dia 225 CLAY 1 in 150	13.819 11.303
FOULWATER COVER LEVEL			17.664							16.393	16.165		
FOULWATER DETAILS		Dia 150 CLAY 1 in 10	13.764 16.397	13.764					Dia 150 CLAY 1 in 13	11.033 5.075	Dia 150 CLAY 1 in 10	Dia 150 CLAY 1 in 12.934	10.733



RD03TH		DATE		10/06/20	
CHAINAGE	0.000	0.000	0.000	0.000	0.000
EXISTING GROUND LEVEL	16.952	16.952	16.952	16.952	16.952
ALIGNMENT LEVEL	16.017	16.017	16.017	16.017	16.017
VERTICAL ALIGNMENT					
HORIZONTAL ALIGNMENT					
STORMWATER COVER LEVEL	16.154	16.154	16.143	16.143	16.143
STORMWATER DETAILS	13.752	13.752	13.752	13.752	13.752
FOULWATER COVER LEVEL	16.165	16.165	16.165	16.165	16.165
FOULWATER DETAILS					

[illegible]

KEY:

---	EXISTING GROUND PROFILE
—	PROPOSED CENTRELINE PROFILE
—	PROPOSED FOUL SEWER
—	PROPOSED STORM SEWER

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

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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 structures to be constructed as detailed in *Sewers for Adoption*, 7th edition or as stipulated in the Water Authority's 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 Engineer.
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 manhole ironworks to comply with BS EN124, and be stamped with BS1 Kitemark. Cover and gully loading as below:
 - Carriageways and Roads - 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 EN252. 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 current British Standards, printed regulations, BS EN 752, BS EN 1601, 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 100mm of cover shall be encased in concrete.
13. Chambers with outgoing pipes greater than 600mm diameter shall be fitted with guard bars, safety chains and 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/C10 concrete over its full length (which should not exceed 15m) and its cover to match the carriageway surface.
16. All sewers to be abandoned must be surveyed to identify any lateral connections that are still live with in view 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 any amendments.
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 (275 x 100mm) to be used. Existing proprietary structures may be used, or new to be used in accordance with Table 11 of Document H of the Building Regulations [$<0.6m$ to invert min DN300, $>0.6m$ to invert min DN475].
22. All gullys connected direct 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/C's and R's to be 0.6m below DPC level, SW/C's and R's to be 0.45m.
25. Adequate precautions in accordance with Approved Document H of the Building Regulations to be taken to prevent access to protected drains (particularly pathtaps) at shallow depths.
26. Catcatches to be as IC's but with 300mm spigut 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 water 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. A 1.0m barrier or fence to be applied type to be installed vertically along the back edge of each of all areas of footway demarcation to protect from both proposed and future plantaction.

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.

P6	12.20	RD03 and RD03TH horizontal alignment updated with vertical alignment.	JS	SL
P5	11.20	RD03 and RD03TH horizontal alignment updated with vertical alignment and drainage amended to suit and drainage updated on RD01	SM	SL
P4	11.20	Drainage updated RD03 & RD04	SM	SL
P3	10.20	RD01 and RD02 horizontal alignment updated with vertical alignment amended to suit and drainage updated	SM	SL
P2	06.20	RD01 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

AL ABLEY LETCHFORD
P PARTNERSHIP
Consulting Engineers

3 Tealgate, Charnham Park
Hungerford, Berkshire RG17 0YT

www.alpce.co.uk Tel: 01488 684390

Client
BARRATT DAVID
WILSON HOMES

Project

WATER LANE, ANGMERING

Title
LONG SECTIONS
SHEET 2

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-112			Revision P6