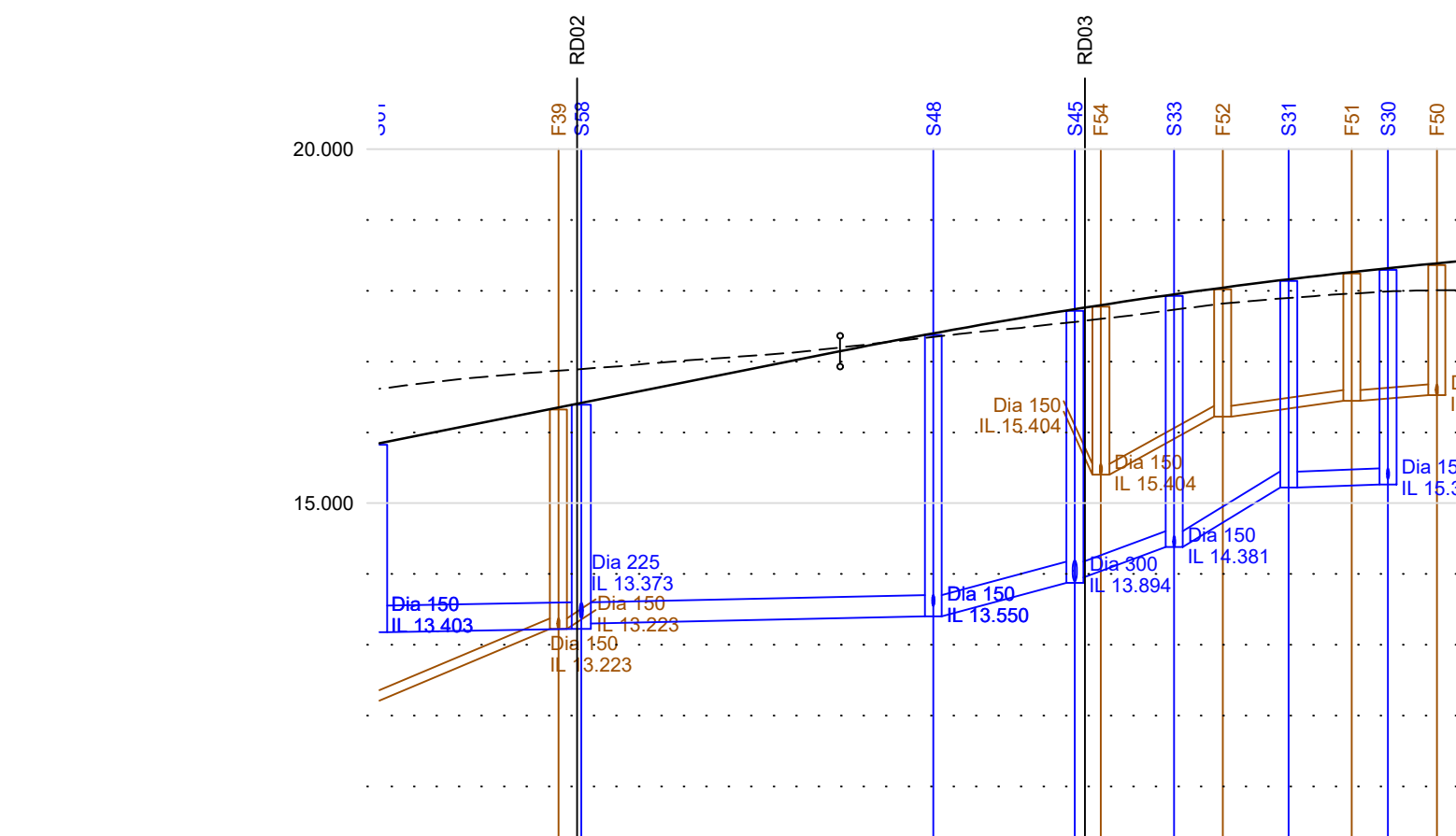
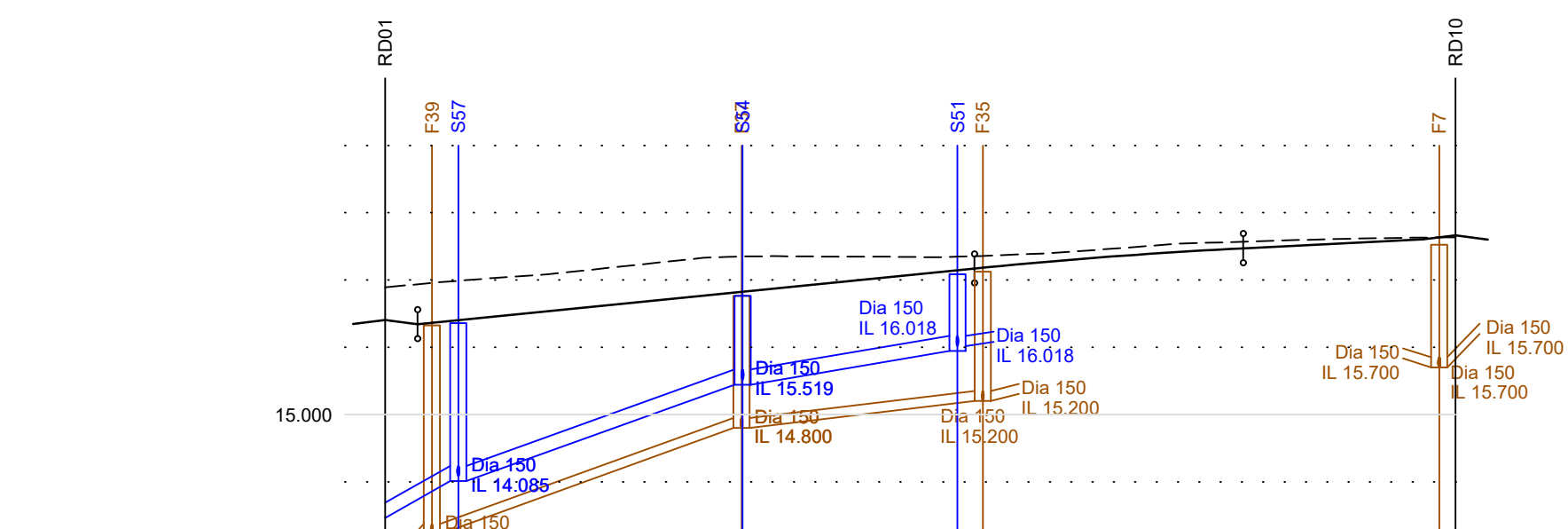
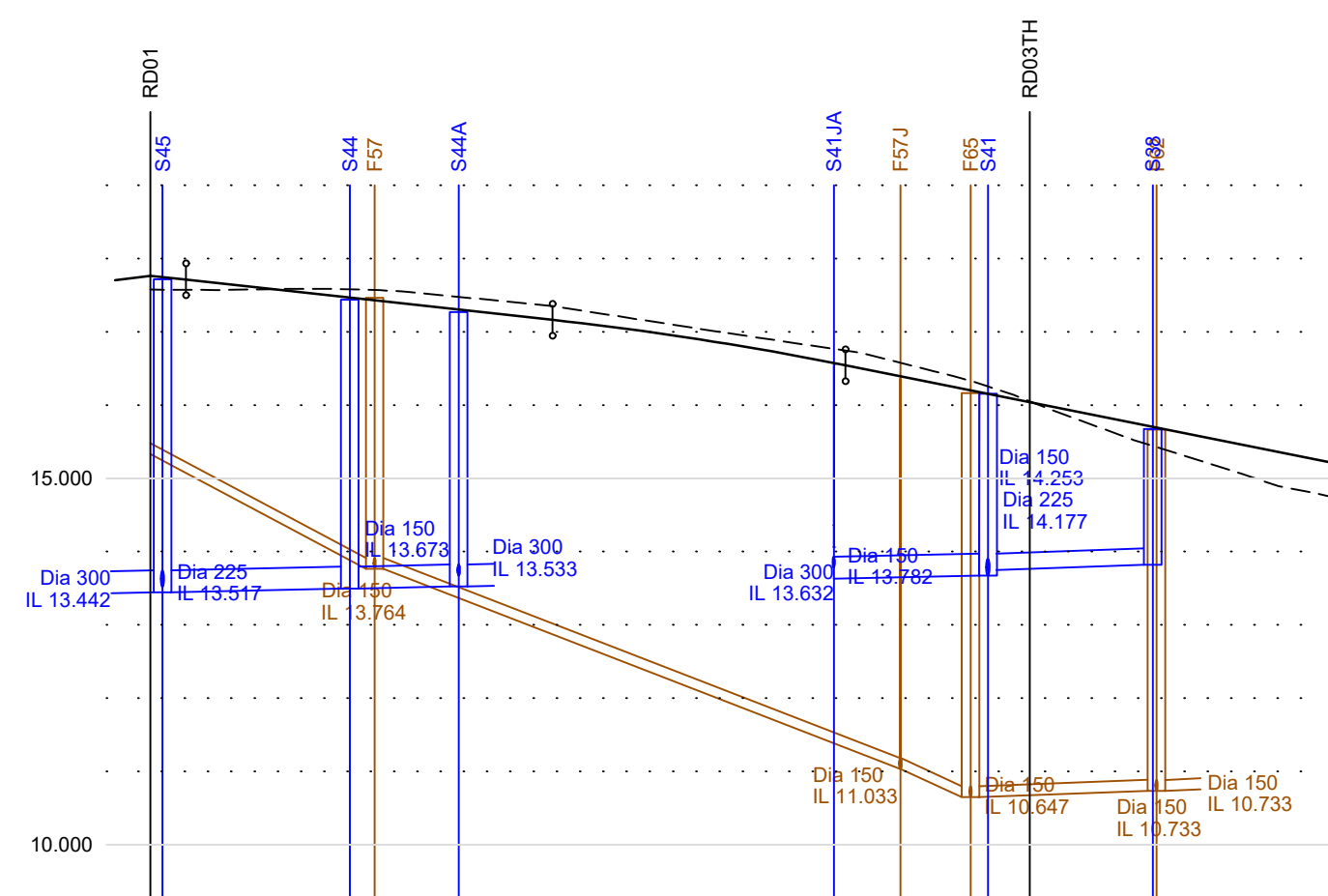
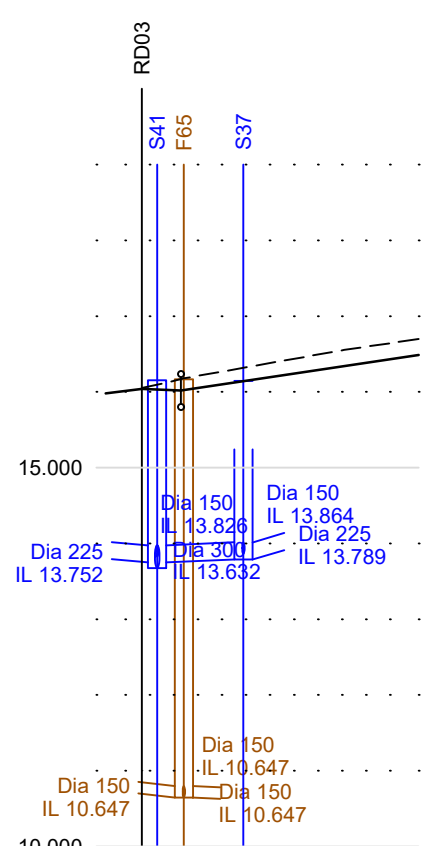


[illegible]

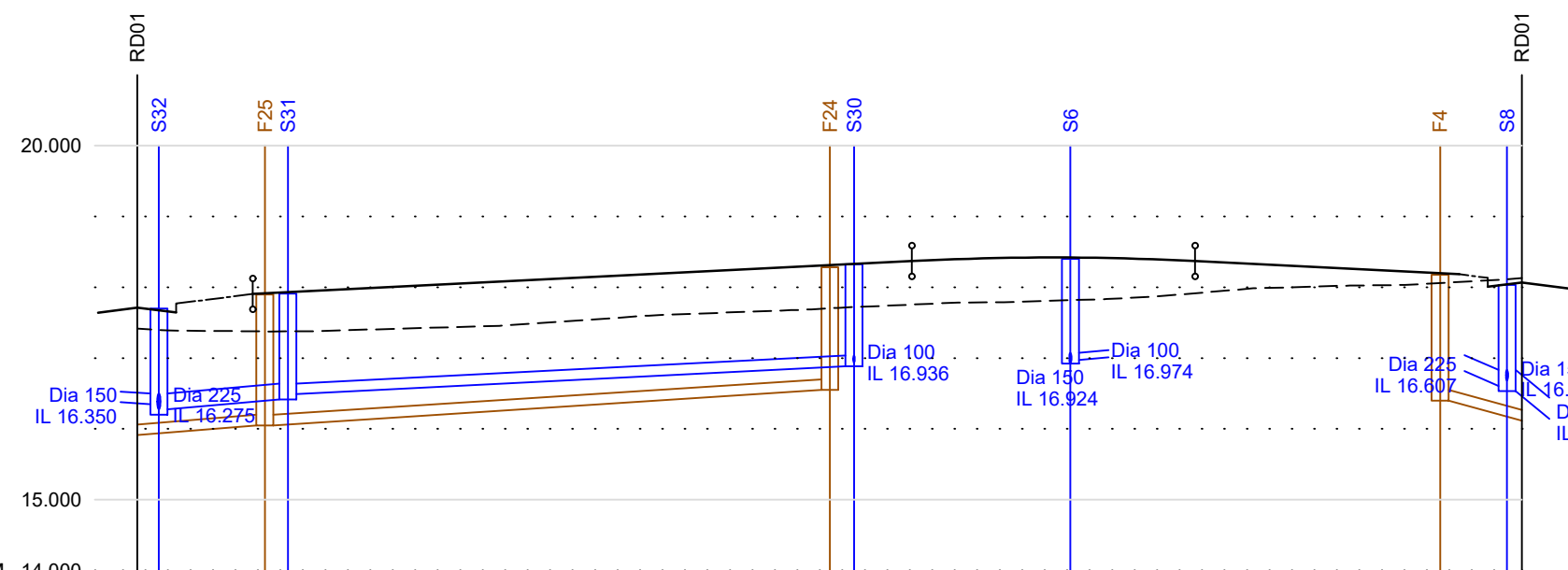
RD02		DATUM 13.000		Dia 150 1:13.223		Dia 225 1:13.223		Dia 300 1:13.223		Dia 375 1:13.223		Dia 450 1:13.223		Dia 525 1:13.223		Dia 600 1:13.223		Dia 675 1:13.223		Dia 750 1:13.223		Dia 825 1:13.223		Dia 900 1:13.223		Dia 975 1:13.223		Dia 1050 1:13.223		Dia 1125 1:13.223		Dia 1200 1:13.223		Dia 1275 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 4050 1:13.223		Dia 4125 1:13.223		Dia 4200 1:13.223		Dia 4275 1:13.223		Dia 4350 1:13.223		Dia 4425 1:13.223		Dia 4500 1:13.223		Dia 4575 1:13.223		Dia 4650 1:13.223		Dia 4725 1:13.223		Dia 4800 1:13.223		Dia 4875 1:13.223		Dia 4950 1:13.223		Dia 5025 1:13.223		Dia 5100 1:13.223		Dia 5175 1:13.223		Dia 5250 1:13.223		Dia 5325 1:13.223		Dia 5400 1:13.223		Dia 5475 1:13.223		Dia 5550 1:13.223		Dia 5625 1:13.223		Dia 5700 1:13.223		Dia 5775 1:13.223		Dia 5850 1:13.223		Dia 5925 1:13.223		Dia 6000 1:13.223		Dia 6075 1:13.223		Dia 6150 1:13.223		Dia 6225 1:13.223		Dia 6300 1:13.223		Dia 6375 1:13.223		Dia 6450 1:13.223		Dia 6525 1:13.223		Dia 6600 1:13.223		Dia 6675 1:13.223		Dia 6750 1:13.223		Dia 6825 1:13.223		Dia 6900 1:13.223		Dia 6975 1:13.223		Dia 7050 1:13.223		Dia 7125 1:13.223		Dia 7200 1:13.223		Dia 7275 1:13.223		Dia 7350 1:13.223		Dia 7425 1:13.223		Dia 7500 1:13.223		Dia 7575 1:13.223		Dia 7650 1:13.223		Dia 7725 1:13.223		Dia 7800 1:13.223		Dia 7875 1:13.223		Dia 7950 1:13.223		Dia 8025 1:13.223		Dia 8100 1:13.223		Dia 8175 1:13.223		Dia 8250 1:13.223		Dia 8325 1:13.223		Dia 8400 1:13.223		Dia 8475 1:13.223		Dia 8550 1:13.223		Dia 8625 1:13.223		Dia 8700 1:13.223		Dia 8775 1:13.223		Dia 8850 1:13.223		Dia 8925 1:13.223		Dia 9000 1:13.223		Dia 9075 1:13.223		Dia 9150 1:13.223		Dia 9225 1:13.223		Dia 9300 1:13.223		Dia 9375 1:13.223		Dia 9450 1:13.223		Dia 9525 1:13.223		Dia 9600 1:13.223		Dia 9675 1:13.223		Dia 9750 1:13.223		Dia 9825 1:13.223		Dia 9900 1:13.223		Dia 9975 1:13.223		Dia 10050 1:13.223		Dia 10125 1:13.223		Dia 10200 1:13.223		Dia 10275 1:13.223		Dia 10350 1:13.223		Dia 10425 1:13.223		Dia 10500 1:13.223		Dia 10575 1:13.223		Dia 10650 1:13.223		Dia 10725 1:13.223		Dia 10800 1:13.223		Dia 10875 1:13.223		Dia 10950 1:13.223		Dia 11025 1:13.223		Dia 11100 1:13.223		Dia 11175 1:13.223		Dia 11250 1:13.223		Dia 11325 1:13.223		Dia 11400 1:13.223		Dia 11475 1:13.223		Dia 11550 1:13.223		Dia 11625 1:13.223		Dia 11700 1:13.223		Dia 11775 1:13.223		Dia 11850 1:13.223		Dia 11925 1:13.223		Dia 12000 1:13.223		Dia 12075 1:13.223		Dia 12150 1:13.223		Dia 12225 1:13.223		Dia 12300 1:13.223		Dia 12375 1:13.223		Dia 12450 1:13.223		Dia 12525 1:13.223		Dia 12600 1:13.223		Dia 12675 1:13.223		Dia 12750 1:13.223		Dia 12825 1:13.223		Dia 12900 1:13.223		Dia 12975 1:13.223		Dia 13050 1:13.223		Dia 13125 1:13.223		Dia 13200 1:13.223		Dia 13275 1:13.223		Dia 13350 1:13.223		Dia 13425 1:13.223		Dia 13500 1:13.223		Dia 13575 1:13.223		Dia 13650 1:13.223		Dia 13725 1:13.223		Dia 13800 1:13.223		Dia 13875 1:13.223		Dia 13950 1:13.223		Dia 14025 1:13.223		Dia 14100 1:13.223		Dia 14175 1:13.223		Dia 14250 1:13.223		Dia 14325 1:13.223		Dia 14400 1:13.223		Dia 14475 1:13.223		Dia 14550 1:13.223		Dia 14625 1:13.223		Dia 14700 1:13.223		Dia 14775 1:13.223		Dia 14850 1:13.223		Dia 14925 1:13.223		Dia 15000 1:13.223		Dia 15075 1:13.223		Dia 15150 1:13.223		Dia 15225 1:13.223		Dia 15300 1:13.223		Dia 15375 1:13.223		Dia 15450 1:13.223		Dia 15525 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1:13.223		Dia 34350 1:13.223		Dia 34425 1:13.223		Dia 34500 1:13.223		Dia 34575 1:13.223		Dia 34650 1:13.223		Dia 34725 1:13.223		Dia 34800 1:13.223		Dia 34875 1:13.223		Dia 34950 1:13.223		Dia 35025 1:13.223		Dia 35100 1:13.223		Dia 35175 1:13.223		Dia 35250 1:13.223		Dia 35325 1:13.223		Dia 35400 1:13.223		Dia 35475 1:13.223		Dia 35550 1:13.223		Dia 35625 1:13.223		Dia 35700 1:13.223		Dia 35775 1:13.223		Dia 35850 1:13.223		Dia 35925 1:13.223		Dia 36000 1:13.223		Dia 36075 1:13.223		Dia 36150 1:13.223		Dia 36225 1:13.223		Dia 36300 1:13.223		Dia 36375 1:13.223		Dia 36450 1:13.223		Dia 36525 1:13.223		Dia 36600 1:13.223		Dia 36675 1:13.223		Dia 36750 1:13.223		Dia 36825 1:13.223		Dia 36900 1:13.223		Dia 36975 1:13.223		Dia 37050 1:13.223		Dia 37125 1:13.223		Dia 37200 1:13.223		Dia 37275 1:13.223		Dia 37350 1:13.223		Dia 37425 1:13.223		Dia 37500 1:13.223		Dia 37575 1:13.22	
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RD03		DATUM 9'00"	
CHAINAGE		0.00 2.89	
EXISTING GROUND LEVEL	17.576		
ALIGNMENT LEVEL	17.714		
VERTICAL ALIGNMENT		G = -2.00%	L = 20.000 KF = -11.11111
HORIZONTAL ALIGNMENT		R = 13.400	R = 12.400
STORMWATER COVER LEVEL	17.716		
STORMWATER DETAILS	13.442 Dia 300 CLAY 1 in 24.7 12.477	13.438 Dia 300 CLAY 1 in 238 7.148	13.423 Dia 300 CLAY 1 in 235 13.523
FOULWATER COVER LEVEL		17.664	
FOULWATER DETAILS	Dia 150 CLAY 1 in 10 16.397	13.764 DIA 150 CLAY 1 in 13 36.055	Dia 150 CLAY 1 in 15 5.075



RD03TH		DATE		10/00	
CHAINAGE		9.000			
		16.052		2.767	
				6.692	
EXISTING GROUND LEVEL		16.052		16.235	10.000
		16.017		16.240	
ALIGNMENT LEVEL					
VERTICAL ALIGNMENT				G= 3.000%	
				1: 33.3	
HORIZONTAL ALIGNMENT					
STORMWATER COVER LEVEL		16.154		16.143	
STORMWATER DETAILS		13.752		0+225	
				CLAY	
				188	
				6.243	
		16.165		13.789	
FOULWATER COVER LEVEL					
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 BS 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 bed and surround with associated movement joints.
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 replaced and 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 partially) at shallow depths.
26. Catchpits to be as IC's but with 300mm spigot 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 barrier or other approved type to be installed vertically along the back edge of every 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	J5	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		
		Drawn by	Drawn	Checked

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Client
**BARRATT DAVID
WILSON HOMES**

Project

WATER LANE, ANGMERING

Title
LONG SECTIONS
SHEET 2

Status **FOR APPROVAL**

Scale 1:500 H @ A1 1:100 V	Date MAY 2020	Drawn SM	Checked SL
Drawing No A290-BM-112		PLN-1-4012 F	Revision P6