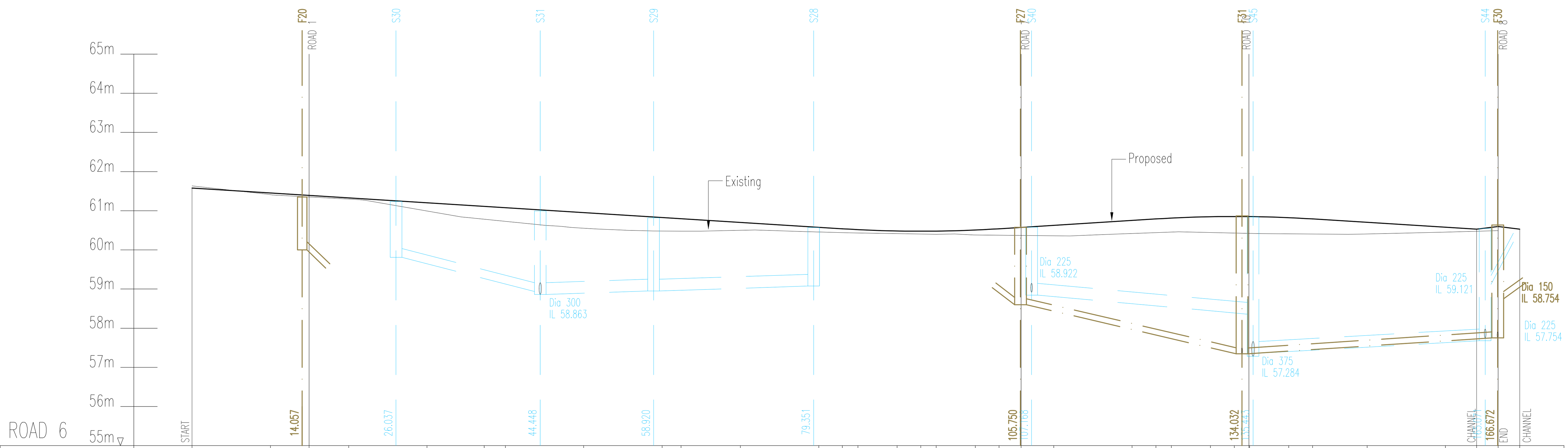
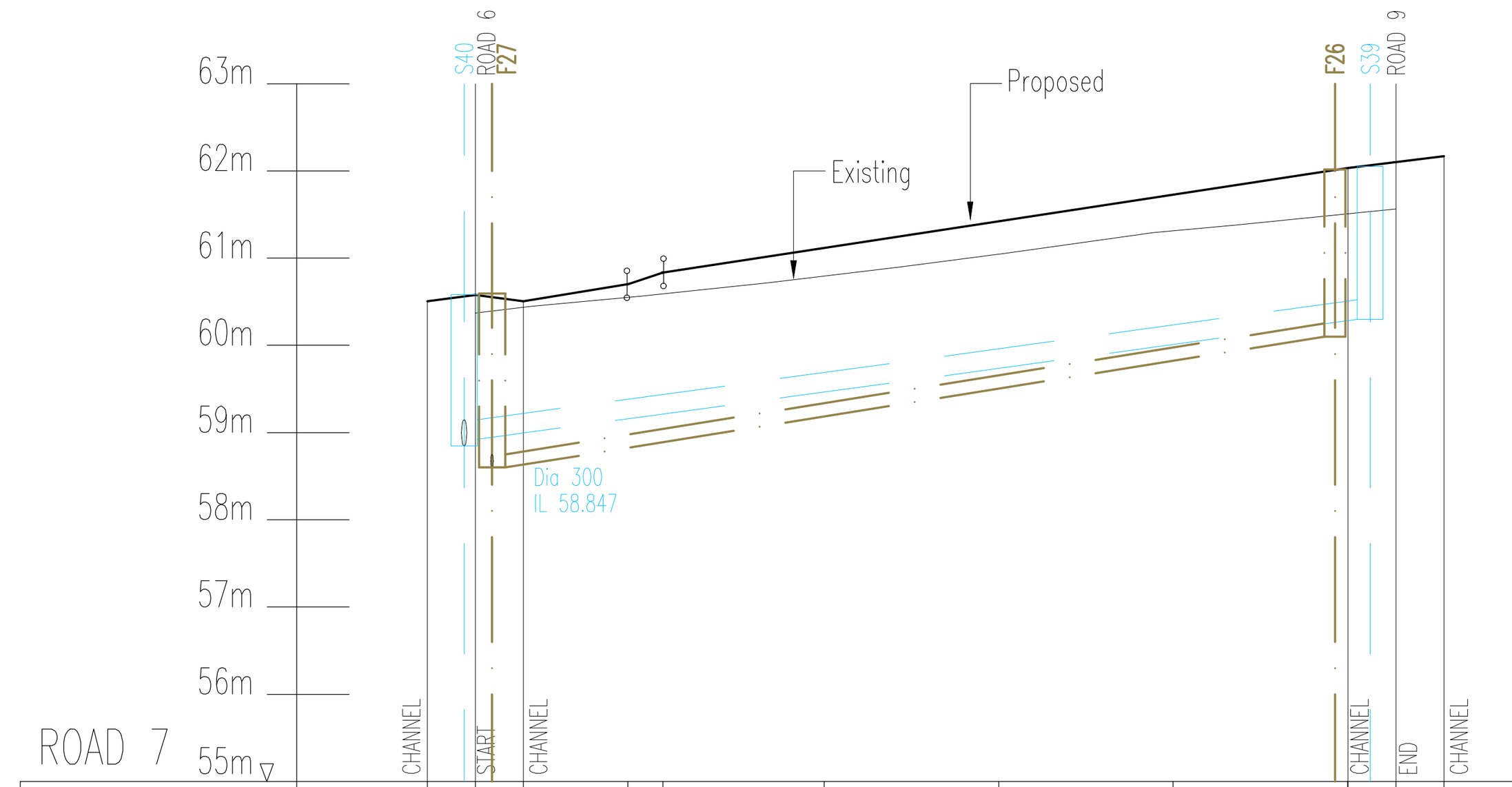
ROAD 6



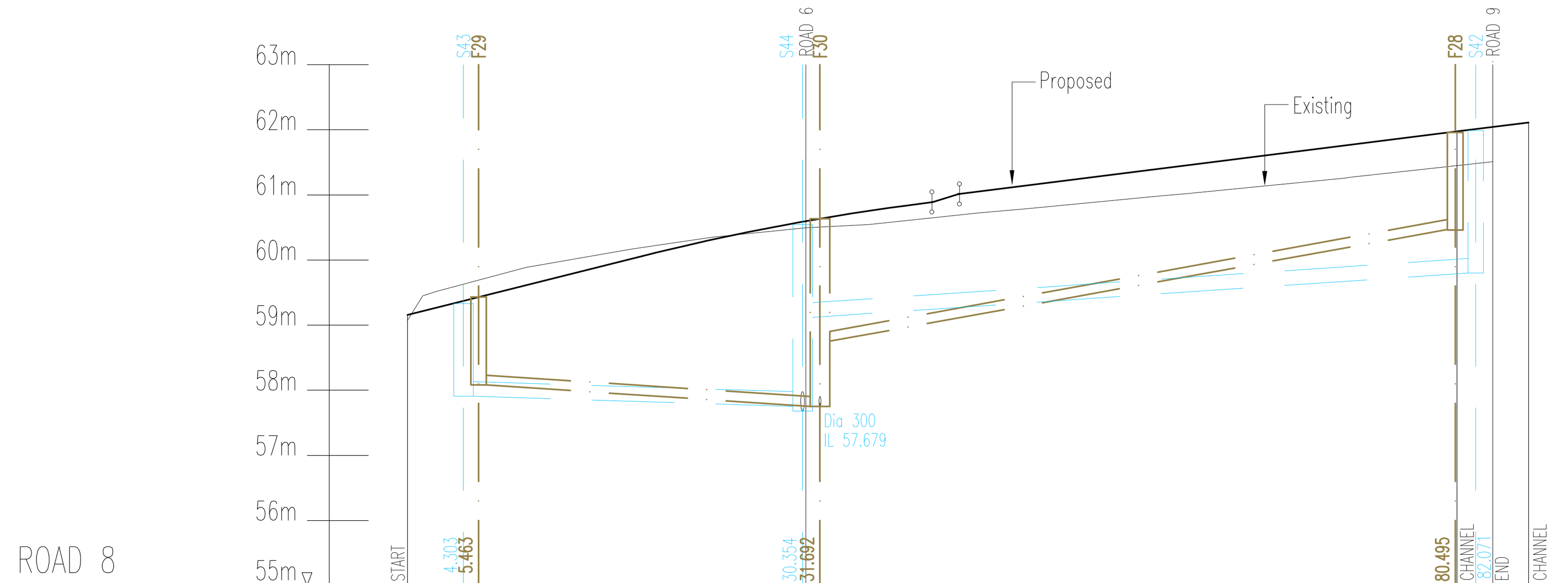
Row	Values
CHAINAGE	0.000, 10.000, 14.943, 20.000, 30.000, 37.286, 40.000, 50.000, 60.000, 62.419, 70.000, 80.000, 83.017, 85.000, 90.000, 93.017, 95.000, 100.000, 103.017, 105.824, 110.000, 120.000, 123.042, 125.000, 130.000, 133.042, 134.914, 135.000, 140.000, 143.042, 150.000, 160.000, 163.978, 166.728, 169.478
EXISTING GROUND LEVEL	61.635, 61.413, 61.296, 60.993, 60.730, 60.552, 60.480, 60.499, 60.456, 60.415, 60.381, 60.362, 60.419, 60.445, 60.410, 60.407, 60.456, 60.493
ALIGNMENT LEVEL	61.578, 61.453, 61.328, 61.203, 61.078, 60.953, 60.828, 60.703, 60.578, 60.540, 60.518, 60.483, 60.478, 60.480, 60.508, 60.540, 60.628, 60.753, 60.791, 60.813, 60.847, 60.853, 60.851, 60.823, 60.791, 60.704, 60.579, 60.529, 60.598, 60.529
VERTICAL ALIGNMENT	G= −1.250% 1: −80.0; KF= 8.0 L= 20.000; G= 1.250% 1: 80.0; L= 20.000 KF= −8.0; G= −1.250% 1: −80.0; 1:40 1:40
HORIZONTAL ALIGNMENT	R= 16.000
SURFACE WATER – STORMWATER COVER LEVEL	61.236; Dia 225 Circular UPVC 1 in 21; 60.997; Dia 300 Circular UPVC 1 in 166; 60.820; Dia 300 Circular UPVC 1 in 166; 60.576; 60.580; Dia 300 Circular UPVC 1 in 58; 60.838; Dia 300 Circular UPVC 1 in 93; 60.547
SURFACE WATER – STORMWATER INVERT	59.811; 18.608 Pipe 7.000 Class S B & S; 58.937; 14.806 Pipe 6.001 Class S B & S; 58.952; 20.594 Pipe 6.000 Class S B & S; 59.076; 58.847; 28.274 Pipe 1.002 Class S B & S; 58.359; 57.359; 29.629 Pipe 2.002 Class S B & S; 57.679
FOUL WATER – FOULWATER COVER LEVEL	61.350; 60.678; Dia 150 Circular UPVC 1 in 23; 60.867; Dia 150 Circular UPVC 1 in 80; 60.634
FOUL WATER – FOULWATER INVERT	60.000; 58.599; 28.282 Pipe 1.001 Class S B & S; 57.346; 32.641 Pipe 2.001 Class S B & S; 57.754

ROAD 7



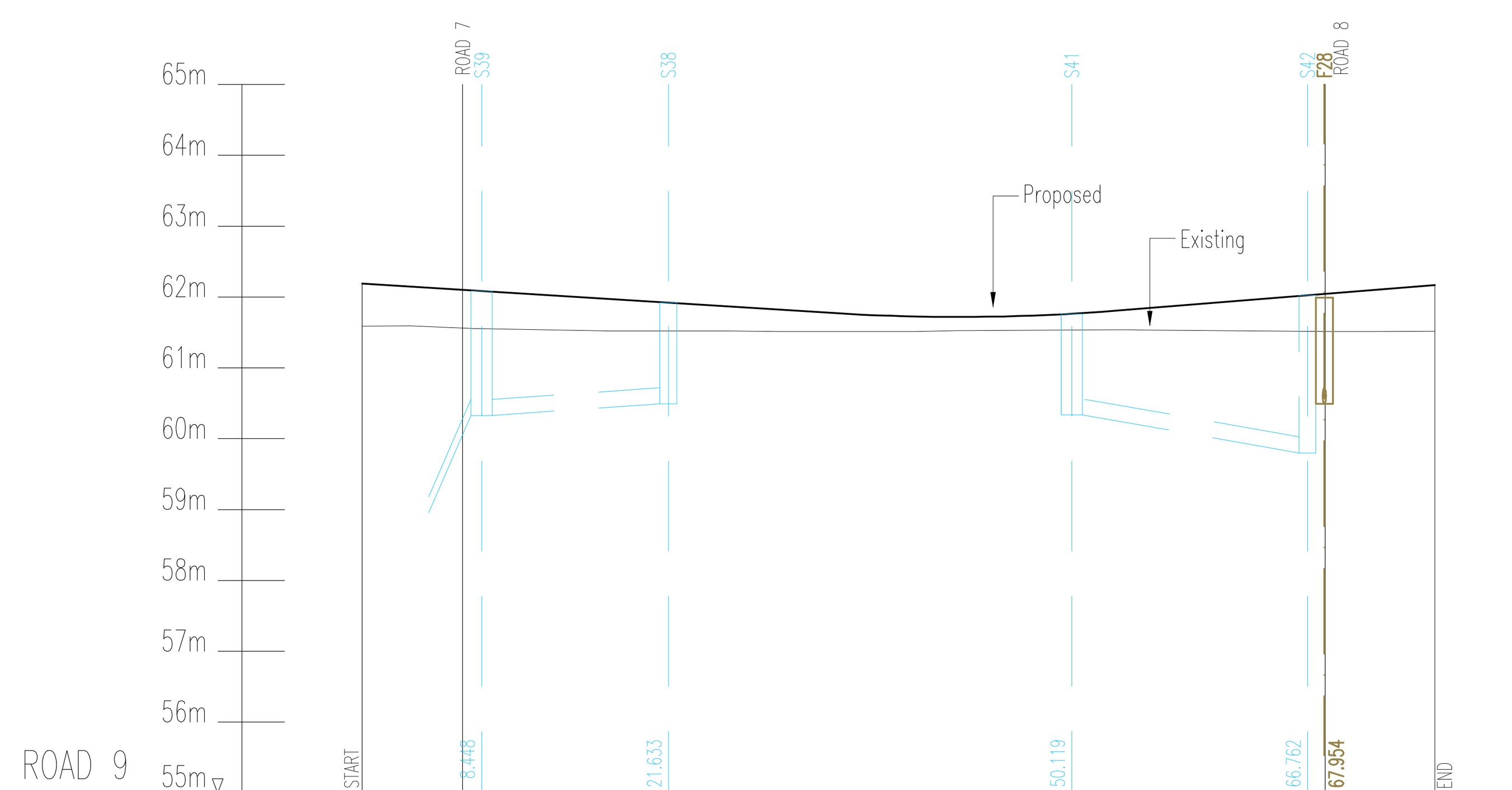
Row	Values
CHAINAGE	−2.750, 0.000, 2.750, 8.750, 10.750, 20.000, 30.000, 40.000, 50.000, 50.038, 52.788, 55.538
EXISTING GROUND LEVEL	60.370, 60.794, 61.044, 61.312, 61.507, 61.563
ALIGNMENT LEVEL	60.507, 60.575, 60.507, 60.701, 60.834, 61.116, 61.421, 61.726, 62.031, 62.032, 62.100, 62.168
VERTICAL ALIGNMENT	1:40 1:40; G=3.226% 1:31.0; RAMP; G= 3.050% 1: 32.8; 1:40 1:40
HORIZONTAL ALIGNMENT	
STORMWATER COVER LEVEL	60.580; Dia 225 Circular UPVC 1 in 38; 62.051
STORMWATER INVERT	58.922; 51.923 Pipe 1.001 Class S B & S; 60.296
FOULWATER COVER LEVEL	60.678; Dia 150 Circular UPVC 1 in 32; 62.017
FOULWATER INVERT	58.599; 47.311 Pipe 1.000 Class S B & S; 60.100

ROAD 8



Row	Values
CHAINAGE	0.000, 10.000, 18.092, 20.000, 25.000, 30.000, 30.603, 35.000, 38.092, 40.000, 40.353, 42.353, 50.000, 60.000, 70.000, 80.000, 80.641, 83.391, 86.141
EXISTING GROUND LEVEL	59.072, 59.918, 60.249, 60.481, 60.641, 60.835, 61.023, 61.217, 61.437, 61.512
ALIGNMENT LEVEL	59.159, 59.659, 60.063, 60.157, 60.381, 60.576, 60.742, 60.830, 60.881, 60.890, 61.013, 61.205, 61.456, 61.707, 61.959, 61.975, 62.044, 62.113
VERTICAL ALIGNMENT	G= 5.000% 1: 20.0; L= 20.000 KF= −8.56392; G=2.665% 1:37.5; RAMP; G= 2.512% 1: 39.8; 1:40 1:40
HORIZONTAL ALIGNMENT	
SURFACE WATER – STORMWATER COVER LEVEL	59.333; Dia 225 Circular UPVC 1 in 169; 60.547; Dia 225 Circular UPVC 1 in 76; 61.990
SURFACE WATER – STORMWATER INVERT	57.908; 26.051 Pipe 3.000 Class S B & S; 57.754; 59.121; 51.719 Pipe 2.001 Class S B & S; 59.800
FOUL WATER – FOULWATER COVER LEVEL	59.432; Dia 150 Circular UPVC 1 in 80; 60.634; Dia 150 Circular UPVC 1 in 29; 61.959
FOUL WATER – FOULWATER INVERT	58.082; 26.229 Pipe 3.000 Class S B & S; 57.754; 58.754; 48.803 Pipe 2.000 Class S B & S; 60.459

ROAD 9



Row	Values
CHAINAGE	0.000, 7.103, 10.000, 20.000, 30.000, 33.309, 35.000, 40.000, 42.086, 45.000, 50.000, 53.309, 60.000, 68.007, 70.000, 75.757
EXISTING GROUND LEVEL	61.590, 61.549, 61.521, 61.515, 61.519, 61.534, 61.527, 61.513, 61.517
ALIGNMENT LEVEL	62.190, 62.065, 61.940, 61.815, 61.774, 61.754, 61.722, 61.719, 61.725, 61.763, 61.808, 61.915, 62.075, 62.167
VERTICAL ALIGNMENT	G= −1.250% 1: −80.0; KF= 7.02155 L= 20.000; G= 1.598% 1: 62.6
HORIZONTAL ALIGNMENT	
SURFACE WATER – STORMWATER COVER LEVEL	62.051; Dia 225 Circular UPVC 1 in 80; 61.886; 61.727; Dia 225 Circular UPVC 1 in 33; 61.990
SURFACE WATER – STORMWATER INVERT	60.296; 13.160 Pipe 1.000 Class S B & S; 60.461; 60.302; 16.644 Pipe 2.000 Class S B & S; 59.800
FOUL WATER – FOULWATER COVER LEVEL	61.959
FOUL WATER – FOULWATER INVERT	60.459

NOTE
There should be enough earance to accommodate the bedding for both pipes, approx 300mm. If crossover is near the rocker then the earance needed may be increased.

N O T E S

Yorkshire Water General Notes

1. All adoptable sewer works and material to be in accordance with "Code for Adoption". The relevant British/European and Yorkshire Water's Standards/Requirements/Addendum to the Mechanical and Electrical Specification and Kitemarked.
2. Manhole covers shall/must have a ear opening of 600mm and shall be ass D400 to BS EN 124 with 150mm deep frames in highways.
3. Fled ground must be fled and consolidated under the supervision, and to the satisfaction, of Yorkshire Water before any sewer works are carried out.
4. Cover slabs must carry the BSI Kitemark or wl be rejected by the Yorkshire Water inspector. Where the ear opening of the Kitemarked product is different to that of the cover and frame, a loading bearing slab should be fitted above the cover slab to bring the size down to 600x600mm for the Yorkshire Water specified cover size. Please refer to the Concrete Pipe Systems Association (CPSA), 'Technical Bulletin' issued autumn 2004 for kitemarked cover slab opening sizes.
5. The adoptable sewers should be a minimum of 1m and manholes 0.5m from kerb faces and service margins.
6. Sewers must have 5 metres earance from trees and hedges, (please also refer to Figure 2.3 on page 33 in "Sewers for Adoption" 6th Edition for restrictions on tree planting adjacent to Sewers).
7. Sewers to be laid in ass "S" bedding (150mm granular bed and surround). Where depth of cover to top of the sewer is less than 1.2m in highways and verges (or less than 900mm in none vehicular access areas) then a concrete slab should be provided above the granular bed and surround.
8. Adoptable plastic sewer pipes to be BSI Kitemarked (Certified to WIS 4-35-01 and BS/EN13476). Adoptable sewer pipes to be laid in maximum 3 metre lengths unless there is a specific operational need to lay longer lengths.
9. Plastic channel sections in manholes are not acceptable and UPVCware is preferable. Plastic channels are difficult to set in concrete and a satisfactory finish cannot be obtained on the benching.
10. The chamber size of manholes with more than one connection in them may need to be increased an increment to accommodate the connections and bends.
11. Yorkshire Water policy is not to accept Type "C" brick manhole and 1050mm dia manhole rings. Instead it is preferred that you use a type "B" manhole with 1200mm dia or 1500mm dia. rings, with the opening sited over the channel where depth of cover to pipe soffit is 1–1.5m.
12. Surface water and foul rising mains to be provided with marker tape above the rising mains.
13. If plastic pipes are to be used then the following should apply:–
    a. All adoptable sewers to be BSI Kitemark (certified to WIS 4–35–01).
    b. Bedding and backfl material to conform to the requirements of Water industry Specification 4–08–02 (Table A2)
14. Where plastic pipes are proposed for adoptable sewers, structural calculations for the plastic pipes and a site investigation report to prove that the ground condition is suitable for the plastic pipes are to be produced.
15. Where plastic pipes are installed into the ground prior to getting full technical approval, the developer must provide a CCTV survey of the prospectively adoptable sewers and a deformation test (Light–Line test) of the plastic pipes.
16. Demarcation chambers to be a min. 450mmø chamber for 100mmø foul & 150mmø surface water pipes up to 1.2m deep. For depths greater than 1.2m, restricted access opening to 350mm is required for safety reasons.
17. Maximum depth of demarcation chamber to be 2m, where depth exceeds 2m, manhole to be constructed as type B manhole.
18. Where a B125 cover and frame has been approved, this must not be coated in plastic and must have lifting eyes suitably sizes to accommodate standard lifting keys. Screw down covers are not acceptable.
19. Yorkshire Water is not obliged to accept fter drain/land drainage runoff into the public sewer network or adoptable drainage system (directly or in–directly). An alternative method of disposal of the land drainage runoff wl therefore be required and you wl have to liaise with the Land Drainage Authority/Land Drainage Section with regard to the disposal of the fter drain/land drainage runoff is required.
20. Sulphate resisting cement (C20–DC2) and precast concrete products must be used or a laboratory report provided proving that such precautions are not necessary.
21. The minimum crushing strength for UPVC pipes should be as follows : 100mm dia. 40KN/m, 150mm dia. 40KN/m, 225mm dia. 45KN/m and 300mm dia. 72KN/m. The minimum crushing strength for concrete pipes should be – (ass 120 to EN 1916/BS5911–1 2002). Plastic pipes should conform to WIS 4–35–01 and BS EN13476.
22. All levels of existing drainage to be confirmed prior to work commencing on site.
23. The contractor must allow for any fee's required for road and sewer opening permits, sewer connections and make the appropriate applications.
24. Bedding and backfl material to conform to the requirement of Water Industry Specification 4–08–02 (Table A2).

REFER TO 0425/87/03.01 & 03.02 CROSSOVER LOCATIONS

SUBJECT TO THE APPROVAL OF ALL RELEVANT AUTHORITIES

Rev	By	Date	Revision	Chk	Apvd
B	JMG	08.07.22	Updated for IWNL submission		MI
A	JMG	27.06.22	Revised to Millers Layout & new road design		MI
/	DJG	27.05.22	Issued for approval	MI	MI

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TITLE
LONGITUDINAL SECTIONS
SHEET 3 OF 5

PROJECT
GYPSY LANE, WOMBWELL

CLIENT
MLER HOMES (YORKSHIRE) LTD

DRAWING STATUS
PRELIMINARY

Scale	Date	Drawn	Chk.
1:500H 1:100V @ A1	MAY 22	DJG	MI

Drg. No. 0425/87/06.03 Rev B