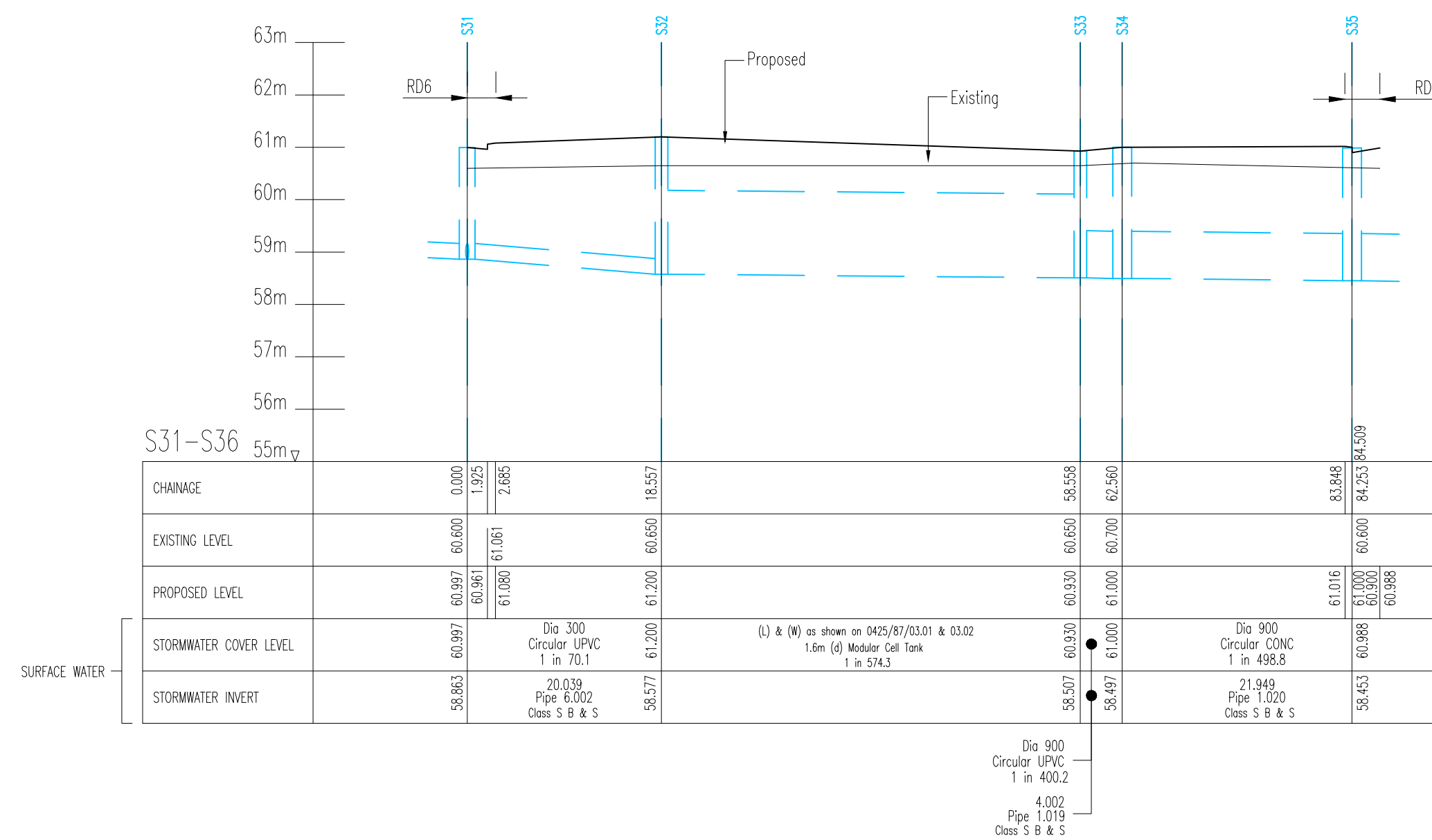
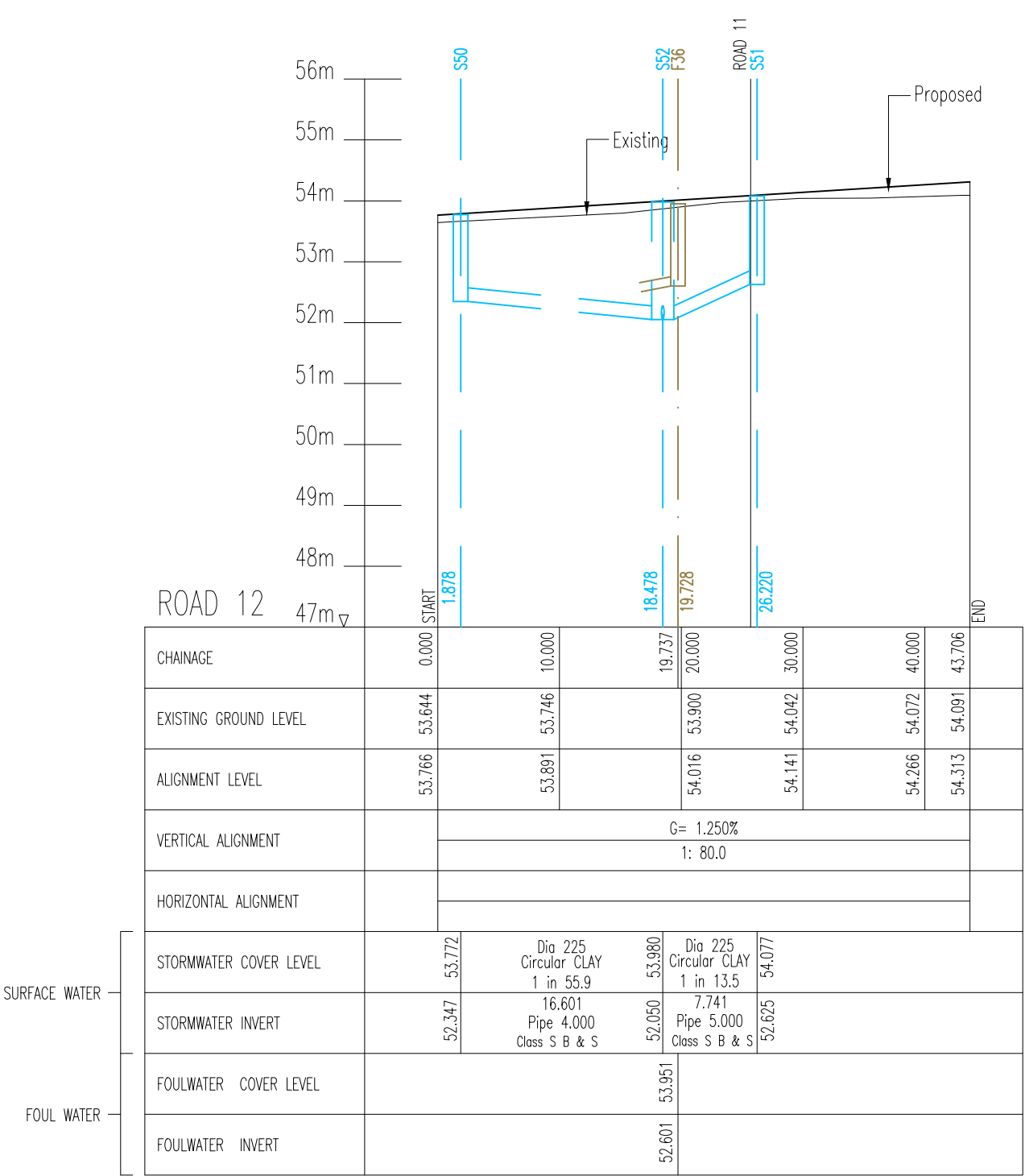
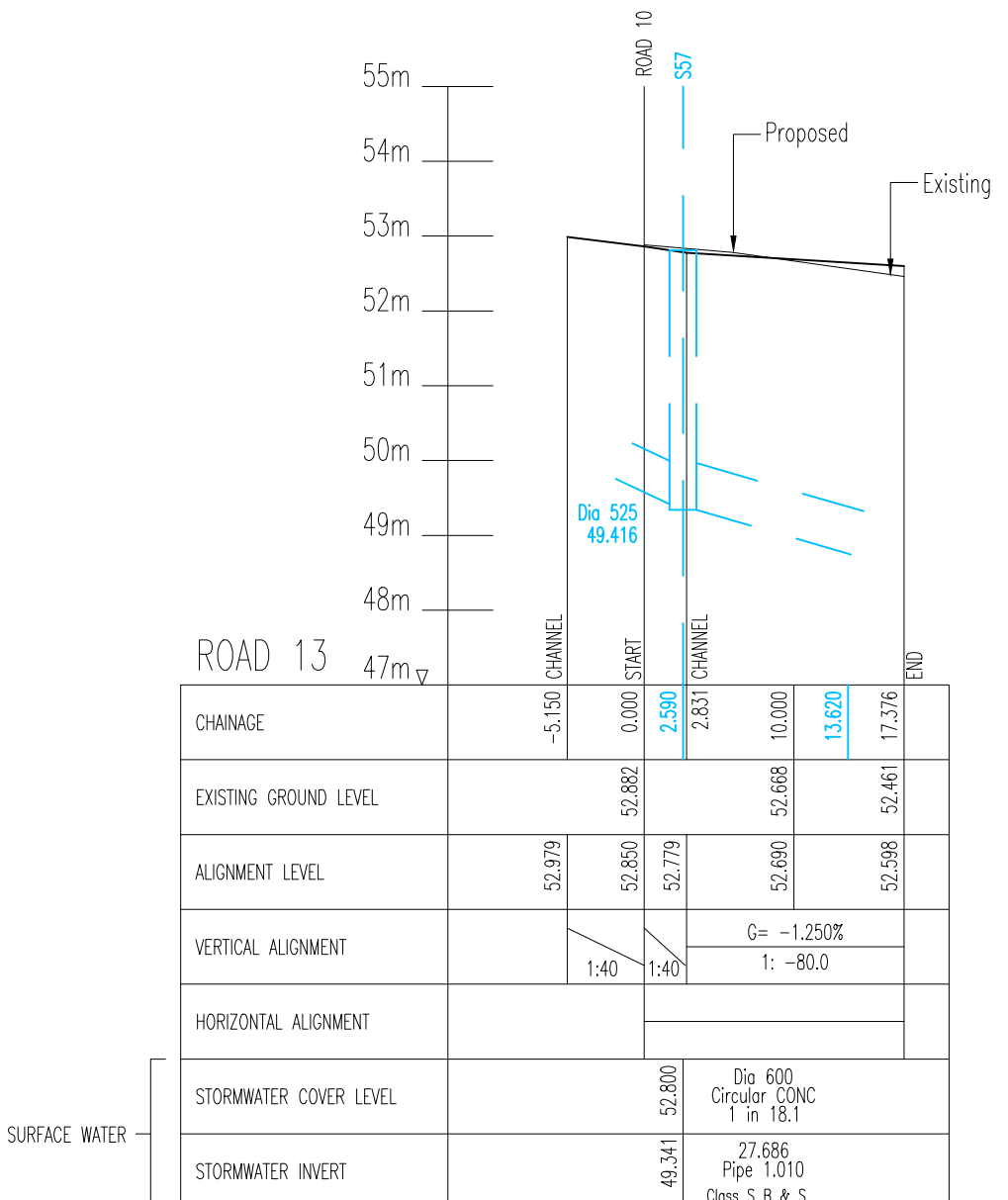


Yorkshire Water General Notes

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 top opening of 600mm and shall be ass D400 to BS EN 124 with 150mm deep frames.
3. Fled gully covers to be laid and extended under the supervision, and to the satisfaction, of Yorkshire Water before any sewers are carried out.
4. Cover slabs must carry the BS1 Kitemark or be rejected by the Yorkshire Water inspector. Where the top 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.
5. Plastic channels to be used for Concrete Pipe Systems Association (CPSA), "Technical Bulletin" summer/autumn 2004 for Kitemarked cover slab opening sizes.
6. The adoptable sewers should be a minimum of 1m and manholes 0.5m from kerb faces and service margins.
7. Sewers must have 5 metres clearance from trees and hedges, (please also refer to Planning 2.3 on page 33 in "Sewers for Adoption" 6th Edition for restrictions on tree planting adjacent to Sewers).
8. Sewers to be laid in ass "S" bedding (150mm granular bed and surround). Where depth of cover to the top of the sewer is less than 1.2m in highways and verges (or less than 900mm in non vehicular access areas) then a concrete slab should be provided above the granular bed and surround.
9. Adoptable plastic sewer pipes to be BS1 Kitemarked (Certified to WS 4-35-01 and BS EN 1401). Adoptable sewer pipes to be laid in maximum 3 metre lengths unless there is a specific operational need to lay longer lengths.
10. Plastic channel sections in manholes are not acceptable and UPVC/AE is preferable. Plastic channels are difficult to set in concrete and a satisfactory finish cannot be obtained on the benching.
11. The chamber size of manholes with more than one connection in them may need to be increased an access point to accommodate the connections and bends.
12. Yorkshire Water policy is not to accept type "C" brick manhole and 1000mm diameter manholes. Where it is proposed to use a type "B" manhole with a 1200mm dia of 1500mm dia. rings, with the opening sized over the channel where depth of cover to pipe silt is 1-1.5m.
13. Surface water and foul rising mains to be provided with marker tape above the rising mains.
14. If plastic pipes are to be used then the following should apply:-
 - a. All adoptable sewers to be BS1 Kitemark (certified to WS 4-35-01).
 - b. Bedding and backfill must conform to the requirements of Water industry specification 4-08-02 (Table A2).
15. 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.
16. Where plastic pipes are installed into the ground prior to getting full technical approval, the developer must provide a CCTV survey of the prospectively adopted sewer and a deformation test (Light-Line test) of the plastic pipes.
17. Demarcation markers to be provided for all sewers. The depth of the flag to be 150mm surface water pipes up to 1.2m depth. For depths greater than 1.2m, restricted access opening to 350mm is required for safety reasons.
18. Maximum depth of demarcation chamber to be 2m, where depth exceeds 2m, manhole to be constructed as type B manhole.
19. Where a B125 cover and frame has been approved, this should not be coated in plastic and sewer will have lifting eyes suitably sized to accommodate standard lifting eyes. Crown man covers not acceptable.
20. Yorkshire Water is not to accept eel trap drain/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 will therefore be required and you will have to liaise with the Land Drainage Authority/Land Drainage Section with regard to the disposal of the fter drain/drainage runoff is required.
21. Slopably resisting cement (D20-CC2) and precast concrete products must be used or a laboratory report provided proving that such precautions are not necessary.
22. 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 - (see ground condition in BS EN1859/1-1-2002). Plastic pipes should conform to WS 4-35-01 and BS EN1401.



SUBJECT TO THE
APPROVAL OF
ALL RELEVANT
AUTHORITIES

E	RJ	07.02.23	MH 46 Omitted	RJ	MI
O	RJ	01.02.23	MH co-ordinates amended	RJ	MI
C	JMG	09.11.22	Drainage updated to avoid services & new outfall levels	RJ	MI
B	JMG	08.07.22	Updated for IWNL submission		MI
A	JMG	27.06.22	Revised to Millers Layout & new road design		MI
	DJC	27.05.22	Issued for approval	MI	MI
Rev	By	Date	Revision	Chk	Acqd

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ARP Associates is a trading division of ARP Geotechnical Ltd, a company registered in England and Wales with company number 3771811, whose registered office is at 5/6 Northwest Business Park, Servia Hill, Leeds LS6 2QH

PROJECT

GYPSY LANE,
WOMBWELL

DRAWING STATUS
PRELIMINARY

Scale	Date	Drawn	DJG
1:500H 1:100V @ A1	MAY 22	Chk.	MI
Drg. No. 0425/87/06.04			Rev E