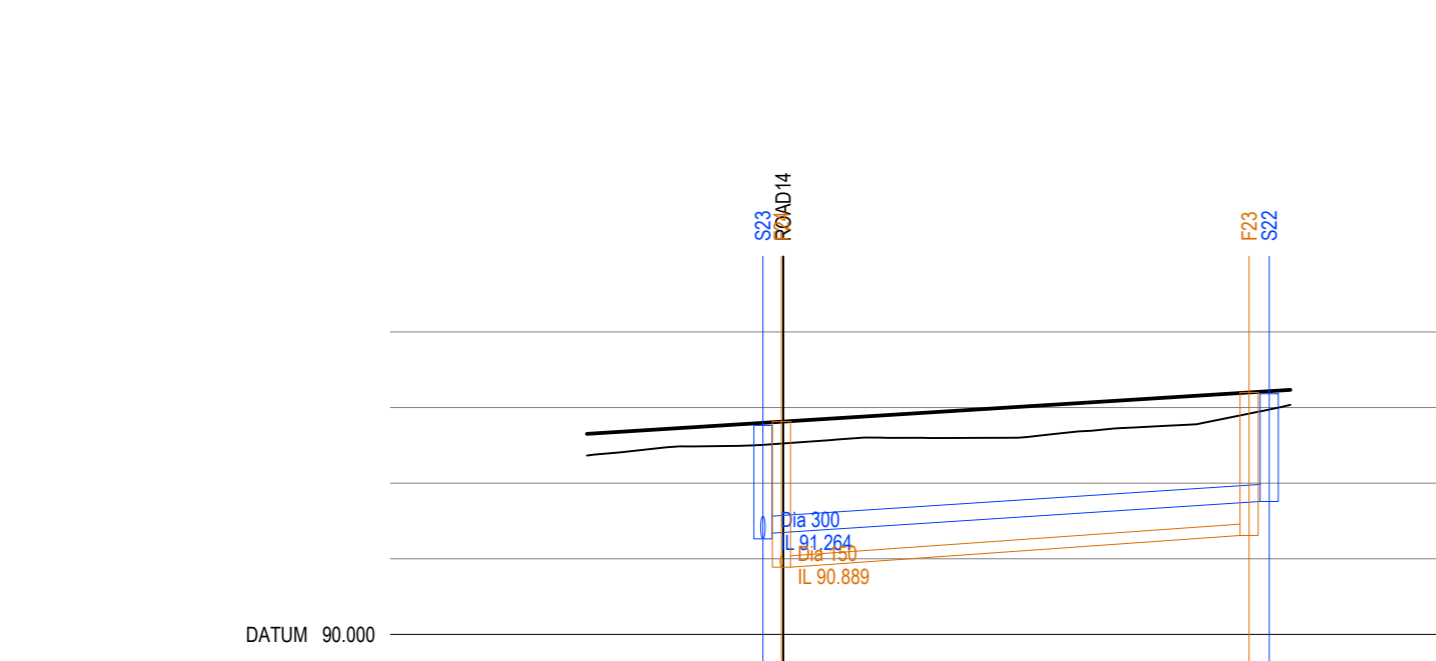
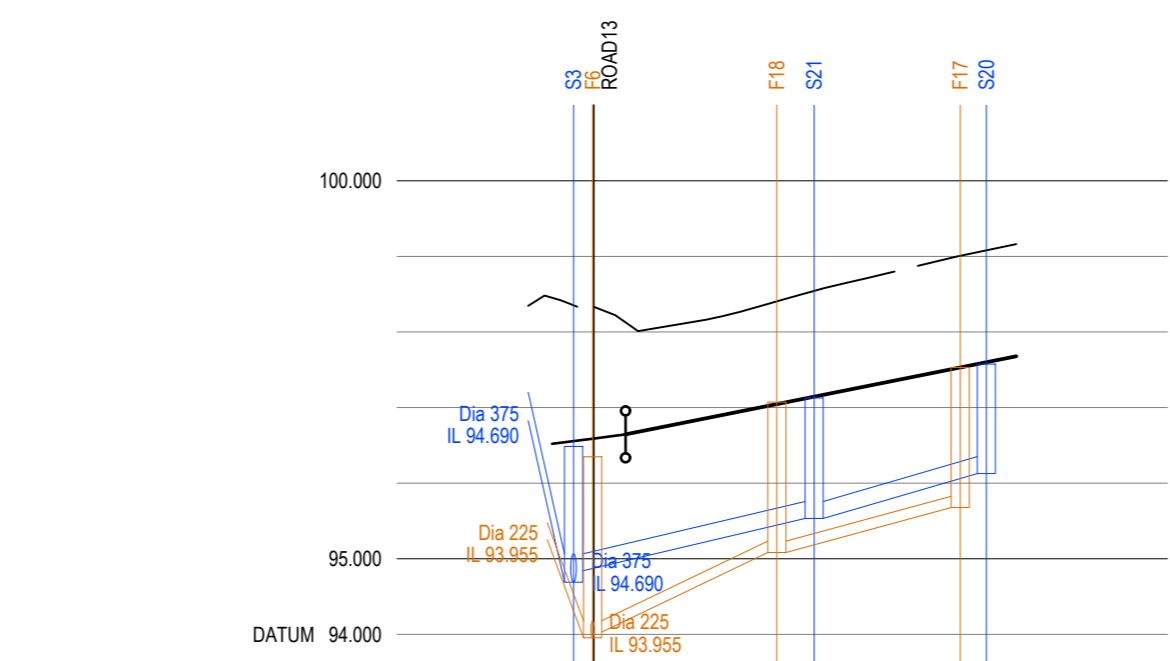


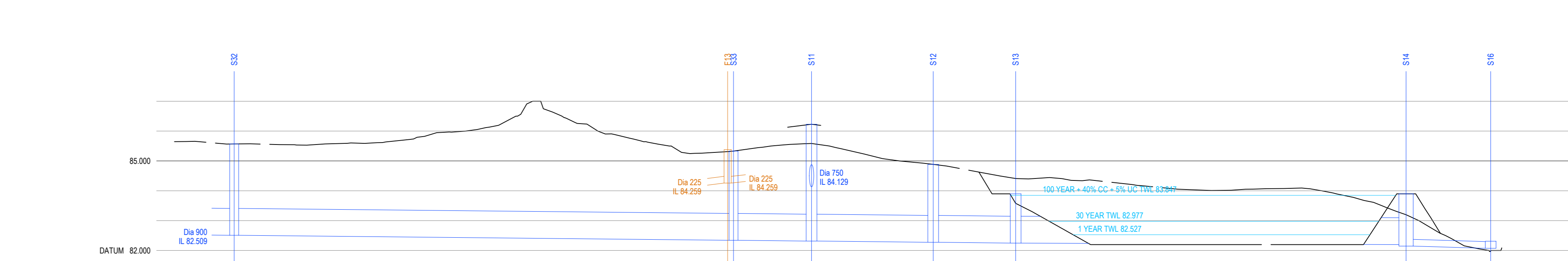
ROAD14		ROAD15		ROAD16		
CHANGING						
EXISTING GROUND LEVEL	88.65	88.55	88.55	88.55	88.55	
ALIGNMENT LEVEL	88.65	88.55	88.55	88.55	88.55	
VERTICAL ALIGNMENT	G1 = 4.00% G2 = 1.14% G3 = 4.00%		G1 = 1.25% G2 = 1.25%		G1 = 4.00% G2 = 1.25%	
HORIZONTAL ALIGNMENT	R = 19.15		R = 14.00		R = 14.00	
LEFT HAND CHANNEL	91.20	91.20	91.20	91.20	91.20	91.20
RIGHT HAND CHANNEL	91.20	91.20	91.20	91.20	91.20	91.20
STORMWATER COVER LEVEL	88.84	88.84	88.84	88.84	88.84	88.84
STORMWATER INVERT	88.84	88.84	88.84	88.84	88.84	88.84
STORMWATER DETAILS	Pipe 4.00 Dia 300 Circular CLAY 1 in 17		Pipe 4.00 Dia 300 Circular CLAY 1 in 17		Pipe 4.00 Dia 300 Circular CLAY 1 in 17	
STORMWATER LENGTHS	18.86		33.68		33.68	
FOULWATER COVER LEVEL	90.05	90.05	90.05	90.05	90.05	90.05
FOULWATER INVERT	87.74	88.05	88.05	88.05	88.05	88.05
FOULWATER DETAILS	Pipe 1.00 Dia 150 Circular CLAY 1 in 14		Pipe 1.00 Dia 150 Circular CLAY 1 in 18		Pipe 1.00 Dia 150 Circular CLAY 1 in 18	
FOULWATER LENGTHS	15.29		38.21		38.21	



ROAD15		ROAD16		
CHANGING				
EXISTING GROUND LEVEL	88.55	88.55	88.55	
ALIGNMENT LEVEL	88.55	88.55	88.55	
VERTICAL ALIGNMENT	G1 = 1.25% G2 = 1.25%		G1 = 4.00% G2 = 1.25%	
HORIZONTAL ALIGNMENT	R = 14.00		R = 14.00	
LEFT HAND CHANNEL	91.20	91.20	91.20	91.20
RIGHT HAND CHANNEL	91.20	91.20	91.20	91.20
STORMWATER COVER LEVEL	88.84	88.84	88.84	88.84
STORMWATER INVERT	88.84	88.84	88.84	88.84
STORMWATER DETAILS	Pipe 4.00 Dia 300 Circular CLAY 1 in 17		Pipe 4.00 Dia 300 Circular CLAY 1 in 17	
STORMWATER LENGTHS	33.68		33.68	
FOULWATER COVER LEVEL	90.05	90.05	90.05	90.05
FOULWATER INVERT	88.05	88.05	88.05	88.05
FOULWATER DETAILS	Pipe 1.00 Dia 150 Circular CLAY 1 in 18		Pipe 1.00 Dia 150 Circular CLAY 1 in 18	
FOULWATER LENGTHS	38.21		38.21	



ROAD16	
CHANGING	
EXISTING GROUND LEVEL	88.55
ALIGNMENT LEVEL	88.55
VERTICAL ALIGNMENT	G1 = 4.00% G2 = 1.25%
HORIZONTAL ALIGNMENT	R = 14.00
LEFT HAND CHANNEL	91.20
RIGHT HAND CHANNEL	91.20
STORMWATER COVER LEVEL	88.84
STORMWATER INVERT	88.84
STORMWATER DETAILS	Pipe 3.00 Dia 225 Circular CLAY 1 in 21
STORMWATER LENGTHS	11.22
FOULWATER COVER LEVEL	90.05
FOULWATER INVERT	88.05
FOULWATER DETAILS	Pipe 1.00 Dia 150 Circular CLAY 1 in 18
FOULWATER LENGTHS	12.41



ROAD17	
CHANGING	
EXISTING GROUND LEVEL	88.55
ALIGNMENT LEVEL	88.55
VERTICAL ALIGNMENT	G1 = 4.00% G2 = 1.25%
HORIZONTAL ALIGNMENT	R = 14.00
LEFT HAND CHANNEL	91.20
RIGHT HAND CHANNEL	91.20
STORMWATER COVER LEVEL	88.84
STORMWATER INVERT	88.84
STORMWATER DETAILS	Pipe 7.00 Dia 900 Circular CLAY 1 in 50
STORMWATER LENGTHS	83.86
FOULWATER COVER LEVEL	90.05
FOULWATER INVERT	88.05
FOULWATER DETAILS	Pipe 1.00 Dia 150 Circular CLAY 1 in 18
FOULWATER LENGTHS	14.17

NOTES:

- To be used in conjunction with Eastwood and Consulting Engineers drawings prefixed 48867.
- All pipes shall be as per:-
A. Unlined clay to BS EN 285 with a minimum crushing strength as follows -
1000 dia - 40 kN/m²
200 dia - 45 kN/m²
300 dia - 75 kN/m²
B. PVC (sanitary) to BS 4365-1 & BS EN 13476.
C. Class D2 concrete to BS EN 12052EN 1916.
- All pipes should always connect with a bell unless noted otherwise.
- All sewers to have BS 8544 manhole covers (certified to BS 430-01 & BS EN 13476). Maximum pipe length to be 3m. Plastic channel sections in manholes are not acceptable. Clay channel sections shall be used.
- Sewers to be laid in Class 'D' 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 some vehicle access areas then a concrete apron should be provided above granular bed and surround.
- Manhole covers shall have a clear opening of 600 and shall be class D400 to BS EN 124 with 100 deep frames in highways.
- Pipes entering manholes and roof gullies shall have a flexible joint with 600 of the inside the manhole or gully joining with a short floor pipe.
- The acceptable sewers should be a minimum of 1m and manholes 0.5m from kerb/foam and service margins.
- Sewers must have 5m clearance from trees and hedges or the width of the canopy at mature height.
- All trenches in roads and paved areas shall be backfilled with Type 1007 granular sub-base material, or other granular material approved by the highway authority.
- Filled ground must be laid and consolidated under the supervision and to the satisfaction of Yorkshire Water before any sewer works are carried out.
- All inlets and concrete to be designated in accordance with BS 5850-1 unless agreed otherwise.
- The invert levels of all proposed pipes to existing public sewers shall be checked before any new drains are constructed. Any variation to the levels shown on the drawing shall be notified to Eastwood & Partners.
- The chamber size of manholes with more than one connection to them may need to be increased or increased to accommodate the connections and bands.
- Cover levels are indicative only. Covers to be set to suit camber/gradient of existing and proposed roads.
- Cover slabs must carry the BS 6841 load or as specified by Yorkshire Water Inspector. Where the clear opening of the manhole product is different to that of the cover and frame, a loading bearing slab should be fitted above the cover slab to bring the slab down to 600mm x 600mm for the Yorkshire Water specified cover type. Please refer to Concrete Pipe Systems Association (CPSA), 'Technical Bulletin' issued Autumn 2004 for manhole cover slab opening sizes.
- Sulphate resistant cement (SR-C2) and precast concrete products must be used or a laboratory report provided proving that such precautions are not necessary.
- Bedding and backfill material to conform to the requirement of Water Industry Specification 4-08-02 (14-08-02).
- Adoptable public sewer pipes to be BS 6841 (certified to BS 4365-1) and BS EN 13476. Adoptable plastic sewer pipes to be laid in maximum 3 metre lengths unless there is a specific operational need to lay longer lengths. Plastic channel sections in manholes are not acceptable and Yorkshire Water would prefer drycast channel in manholes.
- Manhole covers shall have a clear opening of 600mm and shall be Class D400 to BS EN 124 with 100mm deep frames in highways.
- Where a 6125 cover and frame has been approved this must not be casted in place and must have lifting eyes suitably sized to accommodate standard lifting keys. Sewer down covers are not acceptable.
- All adoptable sewer works and material to be in accordance with 'Code for Adoption' The relevant British/European and Yorkshire Water's Standards/Regulations/Local Practice for the Adoption of Great Suburban Road and Surface Water Pumping Stations and Manholes.
- All FFLs to be a minimum 150mm above external levels and drainage cover levels.

REV	DESCRIPTION	SK	CHK	DATE
P01	First Issue	AT	TB	06.06.2024
P02	TWL added to basin as per LLFA request	TB	CH	08.01.2025

HARRON HOMES

MERCHANT FIELDS

LONGITUDINAL SECTIONS
SHEET 6 OF 8

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ECE PROJECT No: SCALE AT A0 STATUS: SUITABLE FOR
48867 1:500H 1:100V S0 Initial

DRAWING NUMBER: **48867 - ECE - XX - XX - DR - C - 0011** REV: **P02**
Project Originator Zone Level Type Role Number