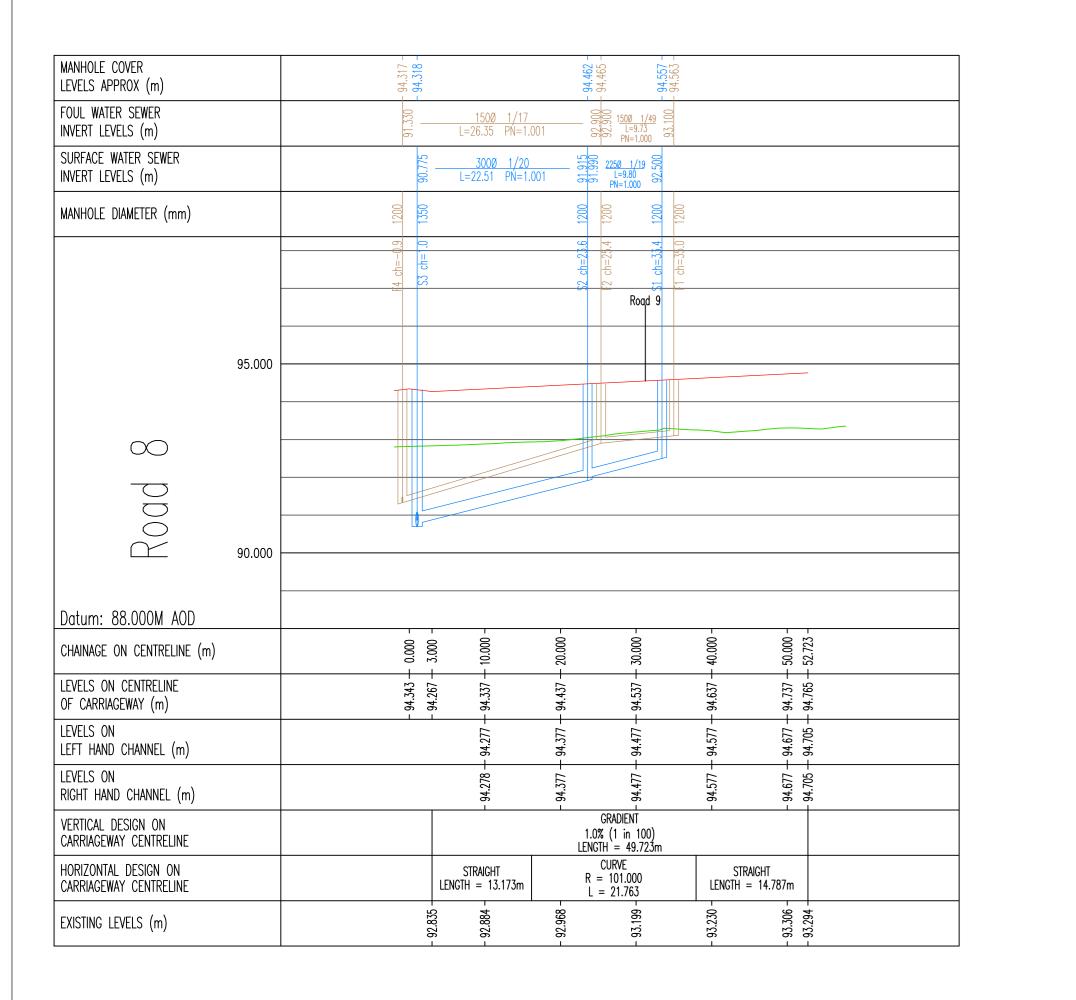
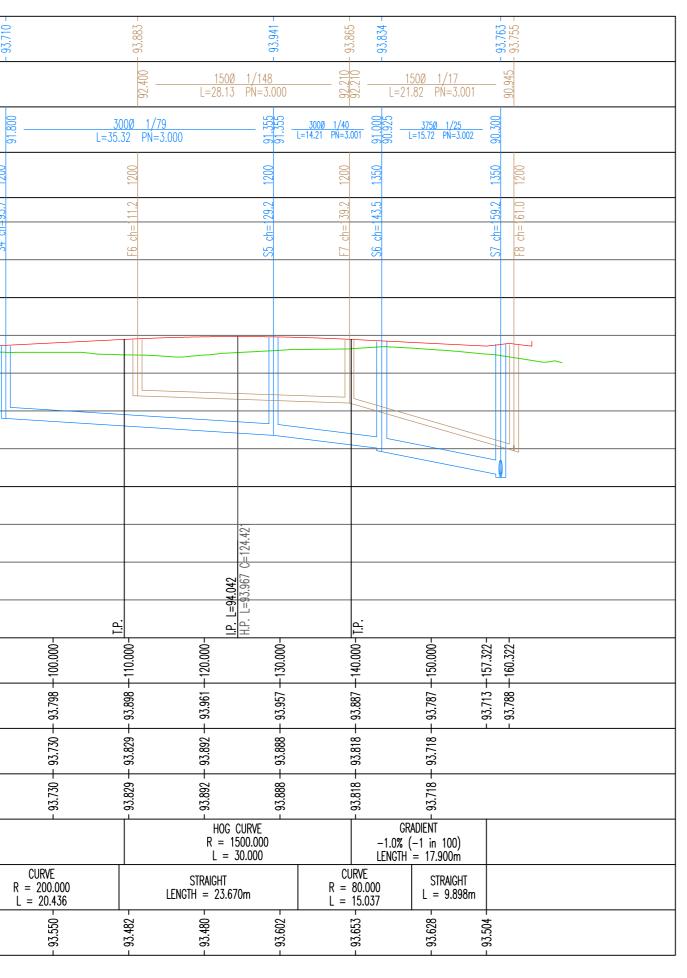
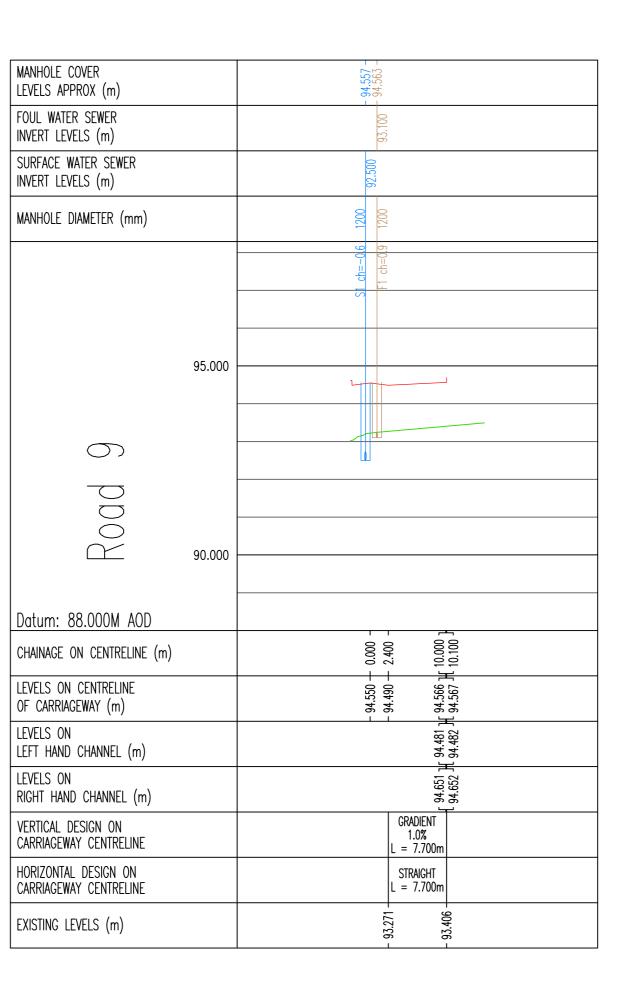
MANHOLE COVER LEVELS APPROX (m)		C C C	92.818 92.779 92.896	92.842 -		92.950 - 92.950 -		93.149 -	062 20	93.346	93.486 5 93.486 5		03 710 -	2.1.00
FOUL WATER SEWER INVERT LEVELS (m)			150Ø 1 =5.60 PN	/56 =5.007 150		l	50Ø 1/149 .42 PN=5.005	_ 88 _ 1500		022.1500 1/110 L=10.96 PN=5.003	91.850			
SURFACE WATER SEWER INVERT LEVELS (m)		375 L=5.7:	6 1/117 2 PN=7.0 06400 06400	05 37	50 1/74 06 PN=7.004	90.730	3 L=39	7 <u>5Ø 1/64</u> .17 PN=7.003		30	00 1/72 =11.02 N=7.001		- - -	91.800
MANHOLE DIAMETER (mm)		1350	1200	1200	1200	1350		1200	1200		1200		1200	
		525 ch= - 19	F27 ch=0.1 S84 ch=0.7	F72 ch=2.6	F26 ch=14.9	S24 ch=17.7		F25 ch=37.4	F24 ch=55.6	S23 ch= S85 ch=	F73 ch≢66.7 522 ch=67.3		S4 ch ≡ 93.7	
	95.000													
\bigcirc														
Rodd	90.000													
Datum: 86.000M AOD														
CHAINAGE ON CENTRELINE (m)			0.000 -	4.191 -	- 10.000 -	20.000 -	. 30.000 -	40.000 -	- 50.000 -	- 60.000 -	. 70.000 -	- 80.000 -	- 90.000 -	
LEVELS ON CENTRELINE OF CARRIAGEWAY (m)			92.945	92.840	. 92.898 –	. 92.998	. 93.098	93.198	93.298 -	. 93.398 -	. 93.498 -	. 93.598 +	93.698 -	
LEVELS ON LEFT HAND CHANNEL (m)				- 1	- 92.842 -	- 92.930 -	- 93.030 -	- 93.130 -	- 93.230 -	- 93.330 -	- 93.430 -	- 93.530 -	- 93.630 -	
LEVELS ON RIGHT HAND CHANNEL (m)					- 92.830 -	- 92.930 +	- 93.030 -	- 93.130 -	- 93.230 -	- 93.330 +	- 93.430 -	- 93.530 -	- 93.630 +	
VERTICAL DESIGN ON CARRIAGEWAY CENTRELINE						I	I		GF 1.0% LENGTH	ADIENT (1 in 100) = 105.230m	I	I		
				L=3.90m	R=8.750 L=4.015 L = 3.18m		CURV R = 29 L = 36	/E 7.326 5.351	L=3.89m		RVE 12.810 18.115	STRAIGHT LENGTH = 14.558m		R : L
HORIZONTAL DESIGN ON CARRIAGEWAY CENTRELINE				1 -										-

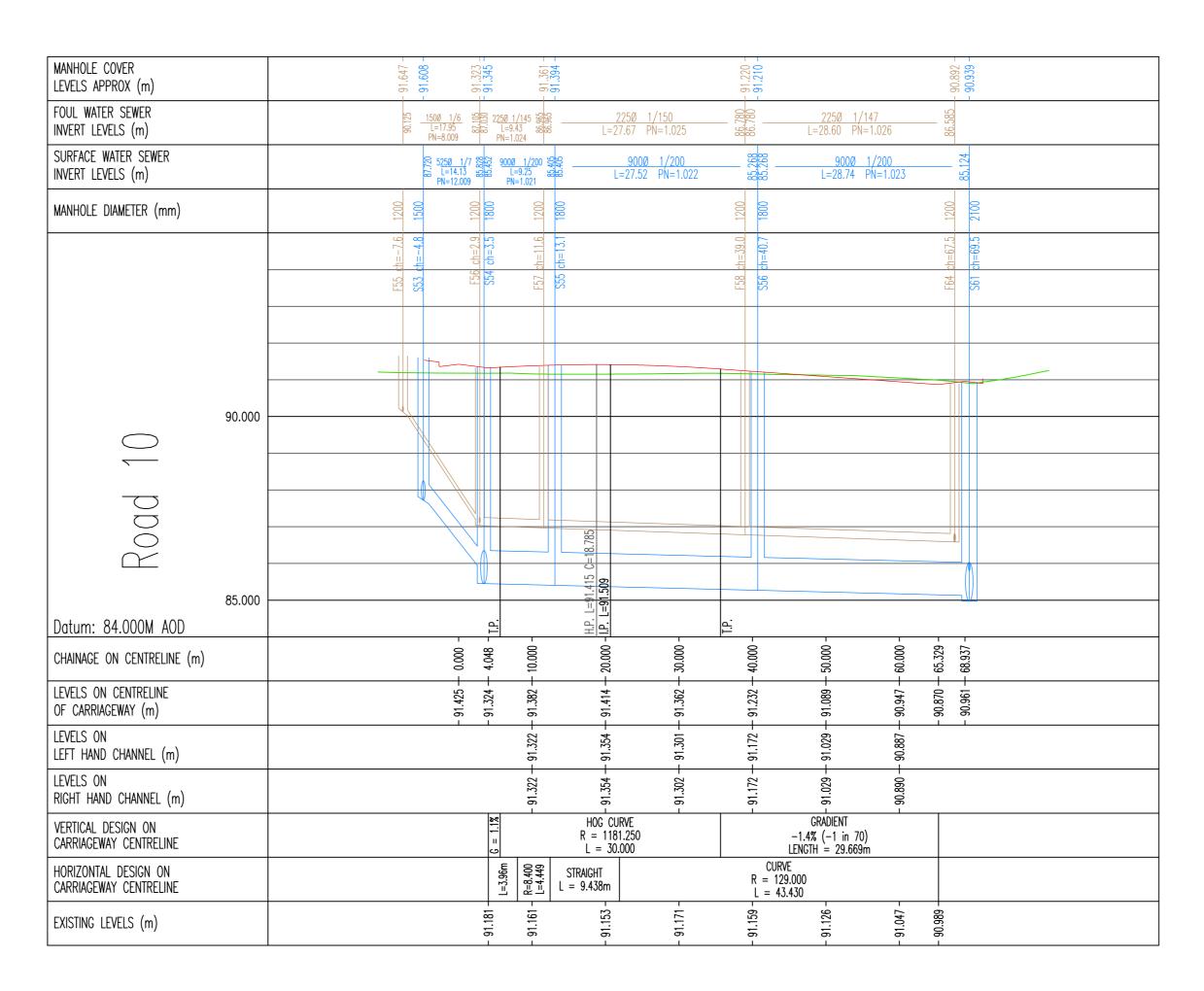


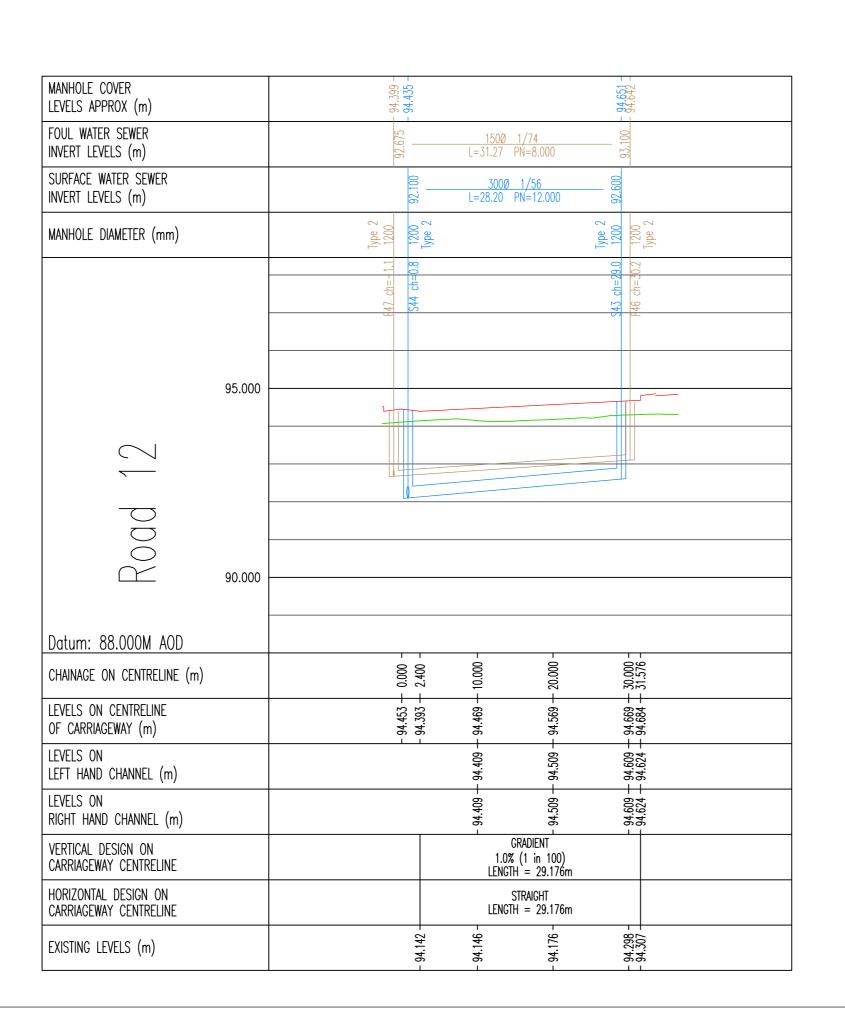
	I		1			1			1		
MANHOLE COVER LEVELS APPROX (m)		- 93.538 -	- 93.558			- 93.920 - - 93.959 -			- 94.399 - - 94.435 -		
FOUL WATER SEWER INVERT LEVELS (m)		9 1 9 4 5		150Ø L=32.72	1/77 PN=8.002	92.370 92.370	<u>1500</u> L=26.53 F	<u>1/87</u> PN=8.001	92.675		
SURFACE WATER SEWER INVERT LEVELS (m)			90.665	<u> </u>	1 <u>/38</u> I=12.002	91.400	<u> </u>	<u>/50</u> =12.001	92.100		
MANHOLE DIAMETER (mm)		1200	1350			1350			1200		
		.9 ch=-0.9	/ ch=0.8			ch=28.8 ch=31.8			ch=58.4 ch=60.2		
			S47			545 F48			Road 12		
	95.000										
		T									
<u></u>											
Rodd	90.000										
Datum: 87.000M AOD						I					
CHAINAGE ON CENTRELINE (m)			- 2.751	- 10.000	- 20.000	- 30.000	- 40.000	- 50.000	- 60.000 -	- 70.000 - 72.139 -	
LEVELS ON CENTRELINE OF CARRIAGEWAY (m)		- 03 F67 -	- 93.498 -	- 93.619 -	- 93.786 -	- 93.953 -	- 94.119 -	- 94.286 -	- 94.453 -	- 94.619 - - 94.655 -	
LEVELS ON LEFT HAND CHANNEL (m)				- 93.559 -	- 93.726 -	- 93.893 -	- 94.059 -	- 94.226 -	- 94.393 -	- 94.559 - - 94.595 -	
LEVELS ON RIGHT HAND CHANNEL (m)				93.559 -	93.726 +	93.893	94.059	94.226 +	94.393 -	94.559 +	
VERTICAL DESIGN ON CARRIAGEWAY CENTRELINE		GRADIENT 1.7% (1 in 60) LENGTH = 69.388m									
HORIZONTAL DESIGN ON CARRIAGEWAY CENTRELINE				Straigh Length = 22	T 2.422m	CURVE R=200.000 L=8.069		Straight Length = 38.8	98m		
EXISTING LEVELS (m)			- 92.917 +	- 92.952 -	- 93.009 -	- 93.270 -	- 93.602 -	- 93.861 -	- 94.107 -	- 94.211 - - 94.238 -	

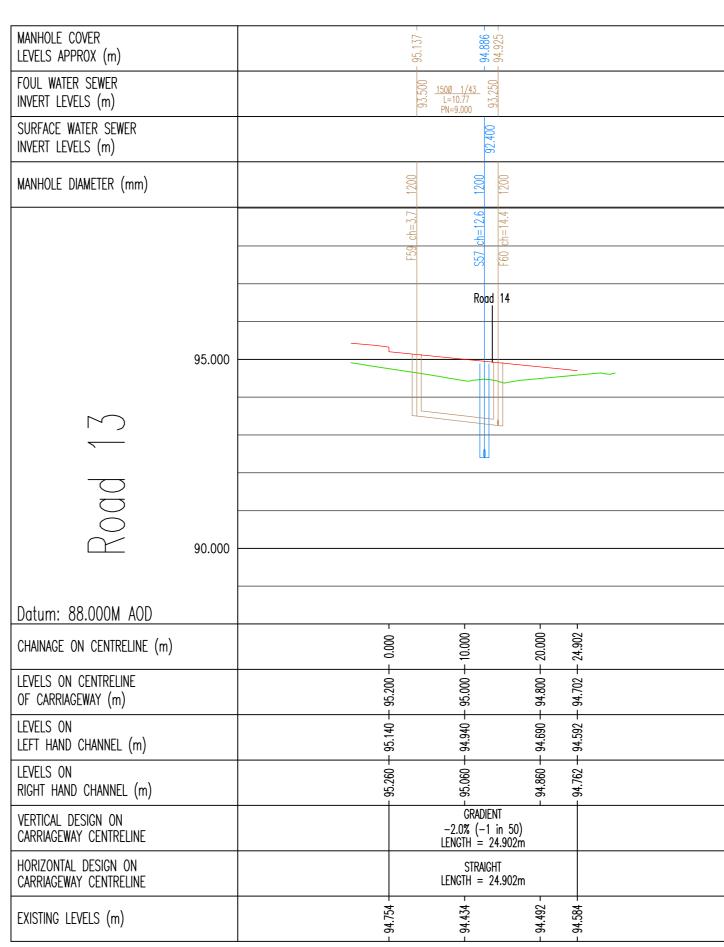




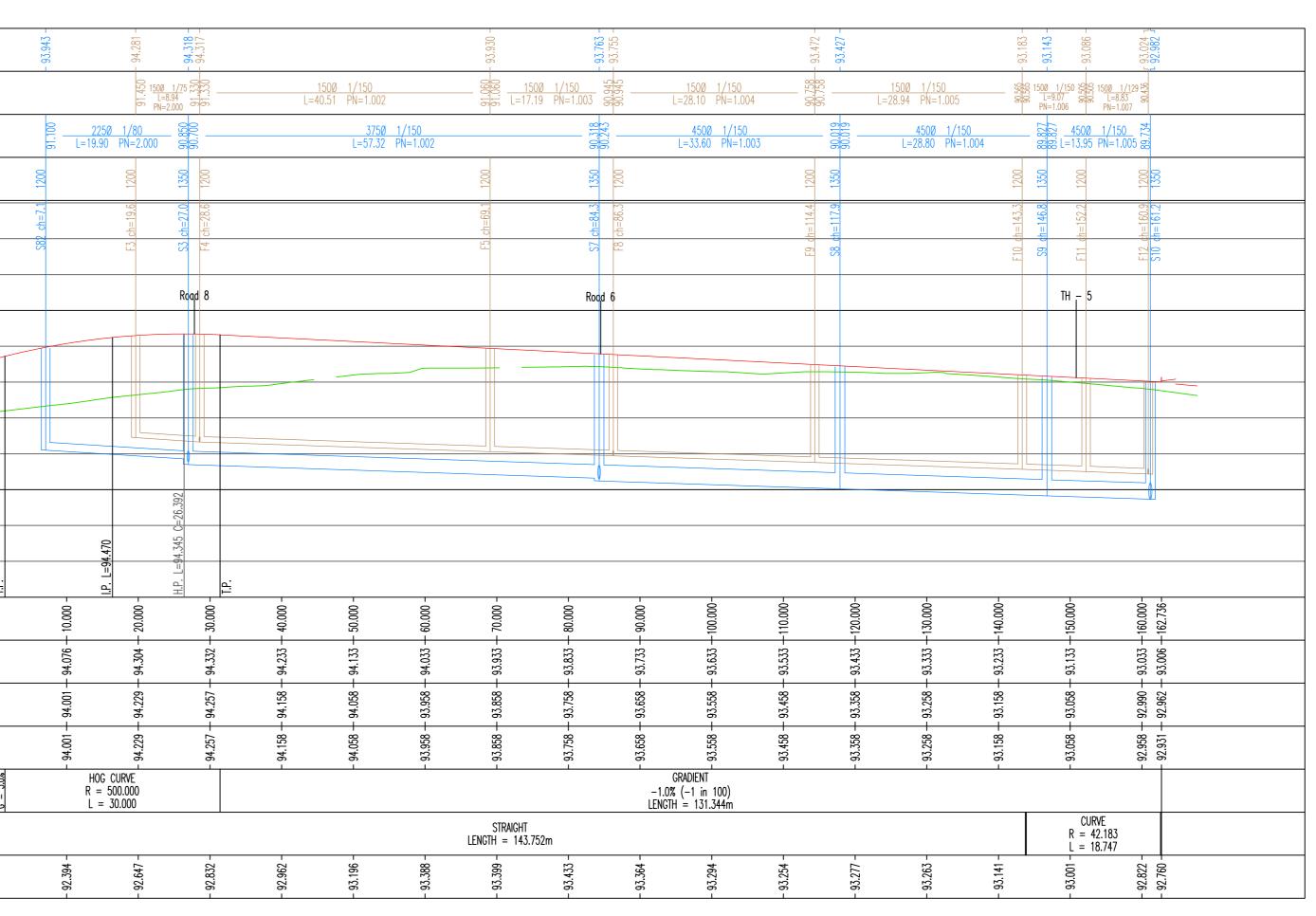
MANHOLE COVER LEVELS APPROX (m)		
FOUL WATER SEWER INVERT LEVELS (m)		
SURFACE WATER SEWER INVERT LEVELS (m)		
MANHOLE DIAMETER (mm)		
	95.000	
$\overline{\bigcirc}$		
000	90.000	
Datum: 87.000M AOD		
CHAINAGE ON CENTRELINE (m)		FI
LEVELS ON CENTRELINE OF CARRIAGEWAY (m)		93.575 + 93.575 - 93.650 + 0.000
LEVELS ON LEFT HAND CHANNEL (m)		93.575 +
LEVELS ON RIGHT HAND CHANNEL (m)		. 93.575 -
VERTICAL DESIGN ON CARRIAGEWAY CENTRELINE		6 = 5.0%
HORIZONTAL DESIGN ON CARRIAGEWAY CENTRELINE		
EXISTING LEVELS (m)		- 92.163 -







LEVELS ON CENTRELINE OF CARRIAGEWAY (m)
LEVELS ON LEFT HAND CHANNEL (m)
LEVELS ON RIGHT HAND CHANNEL (m)
VERTICAL DESIGN ON CARRIAGEWAY CENTRELINE
HORIZONTAL DESIGN ON CARRIAGEWAY CENTRELINE
EXISTING LEVELS (m)



<u>NOTES</u>

- 1. All works to be adopted under a Section 104 Agreement shall be carried out in accordance with 'Sewers for Adoption' 7th Edition & Welsh Water's requirements.
- 2. All concrete class pipes for diameters 375mm and
- 3. Do Not Scale.

above are to be Class '120'.

- 4. This drawing is to be read in conjunction with and checked against all other drawings, Engineering Details, specification and any structural, geotechnical or other specialist document provided.
- 5. A +I% gradient represents a rise of 1m in 100m.
- 6. Left and Right hand channels are on the left and right side respectively, when standing at Chainage Zero and
- looking along the road. 7. Pipe sizes are shown in millimetres and levels shown in metres AOD.
- 8. All pipes to have flexible joints with granular bed and surround (Class S having a min of 150mm granular bed and sidefill with 300mm min above pipe) unless otherwise stated. Where cover under roads or vehicular access areas is less than 1200mm a concrete slab protection should be used in accordance with Welsh Water's details.
- 9. All pipe runs including connections to existing sewers are to be Soffit to Soffit, unless otherwise noted.
- 10. All connections for house drainage shall be 150mm unless stated otherwise and must extend a minimum of 500mm behind the back of the footpath. All connections when laid shall be plugged, protected as necessary and marked with a stake for future use. Surface Water Lateral drains to be 150mm dia. min.
- 11.All manholes and gullies are to be positioned at the chainages given on the long-sections.
- 12.For details of gradients and routes of house drainage connections refer to house drainage layout drawings.
- 13. The Developer Certifies that the Design Criteria, Material Standards and Workmanship Specification for the Proposed Adoptable Sewers are in accordance with those set out in 'Sewers for Adoption 7th Edition' and the requirements of the Statutory Undertaker - Welsh Water.

LEGEND

ADOPTABLE SURFACE WATER SEWER & MANHOLE (SECTION 104) ADOPTABLE FOUL WATER SEWER & MANHOLE (SECTION 104)

B 12.07.23 DRAINAGE UPDATED TO SUIT TENDER DESIGN. A 09.11.20 DRAINAGE UPDATED TO SUIT TENDER DESIGN. Revisions	
Project: Barons Cross Leominster	
Client:	
Drawing: Highway Longsections	
Scale: Date: Drawn by: 1:500V/1:100H @ A0 September 2020 NC	
Drawing No: 10264-102-02 Rev: B	
Unit 9, Westway Garage, Marksbury, Bath. BA2 9HN Let 01761 1479950 Unit Three, Melin Corrwg Business Parc, Upper Boat, Pontypridd, CF37 5FE, Iet 0.029 2049 0771	∨
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be accepted for amendments by others to either the printed or digital format.	
FOR TENDER	