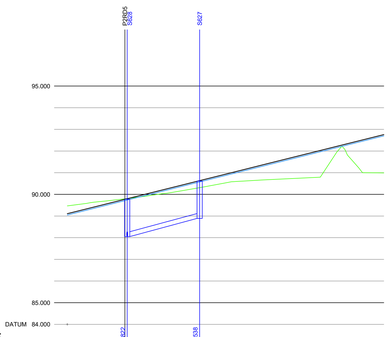
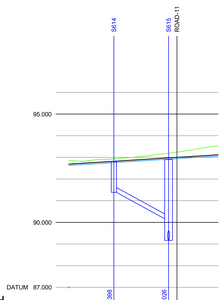
DO NOT SCALE

NORTH



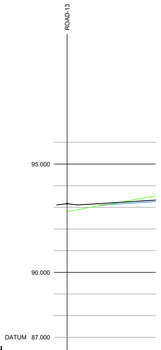
ROAD-15

CHAINAGE	0.000	8.687	10.000	13.350	13.400	20.000	30.000	30.139	31.000	31.972	40.000	42.793	50.000	59.987	60.000	71.44	72.545
EXISTING GROUND LEVEL	89.468	89.718		89.872			90.290				90.606		90.712		91.288	90.986	90.960
ALIGNMENT LEVEL	89.107	89.607		90.107			90.607				91.107		91.607		92.107	92.607	92.759
VERTICAL ALIGNMENT	G= 5.000% 1: 20.0																
HORIZONTAL ALIGNMENT			R= 87.000					R= 87.500							R= 103.000		
LEFT HAND CHANNEL	89.047	89.297		89.547		89.797	90.047		90.297	90.547		90.797	91.047		91.297	91.547	91.797	92.047		92.297	92.547	92.699
CENTRE LINE	89.107	89.357		89.607		89.857	90.107		90.357	90.607		90.857	91.107		91.357	91.607	91.857	92.107		92.357	92.607	92.759
RIGHT HAND CHANNEL	89.047	89.297		89.547		89.797	90.047		90.297	90.547		90.797	91.047		91.297	91.547	91.797	92.047		92.297	92.547	92.699
STORMWATER COVER LEVEL					89.777			90.614														
STORMWATER INVERT					89.022	Pipe 2.000 Dia 225 PVC-U 1 in 20 16.533		88.889														



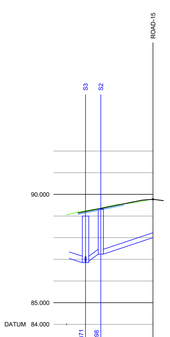
RD 11 TH

CHAINAGE	0.000	9.281	10.000	20.000	22.000	22.126	24.542	29.561	30.000	34.465
EXISTING GROUND LEVEL	92.867	92.925		93.117				93.403		93.554
ALIGNMENT LEVEL	92.868	92.813		92.868				93.083		93.119
VERTICAL ALIGNMENT	G= 1.250% 1: 80.0									
HORIZONTAL ALIGNMENT				R= 37.000					R= 33.000	
LEFT HAND CHANNEL	92.828	92.691	92.753	92.816	92.878		92.941	93.003		93.059
CENTRE LINE	92.868	92.751	92.813	92.876	92.938		93.001	93.063		93.119
RIGHT HAND CHANNEL	92.828	92.691	92.753	92.816	92.878		92.941	93.003		93.059
STORMWATER COVER LEVEL			92.808			92.900				
STORMWATER INVERT			91.383	Pipe 8.000 Dia 225 PVC-U 1 in 11 13.400		90.165				



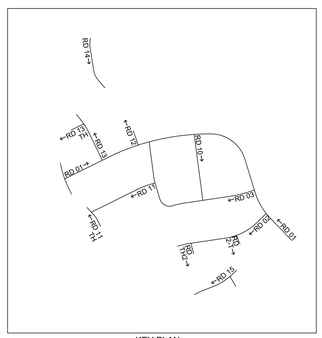
RD 13 TH

CHAINAGE	0.000	2.426	7.476	10.000	10.229	20.000
EXISTING GROUND LEVEL	92.842		93.143			93.512
ALIGNMENT LEVEL	93.110		93.205			93.330
VERTICAL ALIGNMENT	G= 1.250% 1: 80.0					
HORIZONTAL ALIGNMENT						
LEFT HAND CHANNEL	93.155	93.136	93.128	93.109	93.261	
CENTRE LINE	93.142	93.173	93.205	93.236	93.268	93.300
RIGHT HAND CHANNEL	93.199		93.199		93.261	



P2RD5

CHAINAGE	0.000	2.839	2.871	7.866	10.000	13.234	19.866
EXISTING GROUND LEVEL	89.064		89.455				89.793
ALIGNMENT LEVEL	89.140		89.434				89.734
VERTICAL ALIGNMENT	G= 4.001% 1: 25.0						
HORIZONTAL ALIGNMENT							
LEFT HAND CHANNEL	89.174		89.374	89.387	89.387		
CENTRE LINE	89.234		89.447	89.434	89.434	89.734	
RIGHT HAND CHANNEL	89.174		89.387		89.534		
STORMWATER COVER LEVEL	89.000		89.325				
STORMWATER INVERT	88.719	Pipe 2.000 Dia 225 PVC-U 1 in 20 6.543	88.535	88.535	Pipe 2.002 Dia 225 PVC-U 1 in 16 12.895		



KEY PLAN

Notes

1. Setting out shall be undertaken using only the information given. Distances should not be scaled from this drawing.
2. All sewers shall be constructed in accordance with Design and Construction Guidance (DCG) Standards and United Utilities Details & Guidelines.
3. The minimum gravity pipe diameter under adoptable highways shall be 150mm
4. It is the responsibility of the Contractor to verify all information given with regards to existing services and drainage connections etc. prior to commencing the works. The rates shall include for hand dig around services where necessary. The Contractor shall adhere to the CDM Regulations at all times
5. The outsides of all sewers shall be a minimum of 1.0m from kerb lines and the outside of manholes shall be a minimum of 0.5m from kerb lines
6. Existing flows in watercourses, sewers and land drains shall be maintained at all times
7. Only trained personnel shall be permitted to enter confined spaces
8. All materials to bear the relevant B.S. Kitemark and comply fully with the specifications. All concrete & concrete products must use Sulphate resistant cement to withstand Class 3 condition (unless the site investigation report proves that sulphate attack from soils and groundwater will not occur).
9. All opening notices etc. as required under Highways Acts etc. are to be obtained prior to commencement of works. All works are to be inspected by L.A., NHBC or the Network Operator as applicable.
10. Where "Structured Wall" UPVC pipes (or similar approved) are used in adoptable drainage they shall be handled and laid in accordance with the manufacturers instructions and will be subject to post installation deformation testing prior to adoption. A Class S Bed and Surround must be used for "Structured Wall" pipes
11. Trench backfill in highways to within 1m of highway shall, as directed by the Highway Authority be a suitable granular material all in accordance with Design and Construction Guidance (DCG) Standards.
12. Slab levels shall not be varied without reference to the Engineer for guidance.
13. Pipes have not been designed to accommodate construction traffic loading. The contractor is responsible for providing adequate protection to the pipes during construction.
14. All works to be in accordance with Cumbria Council's Specification and Standard Details, and as agreed with Cumbria Council's representative.
15. Manhole pipe connections to be soffit to soffit.

Class 'S' bed and surround to all pipes unless stated otherwise.
Class 'Z' bed and surround to pipes where cover < 1.2m as indicated on longsections.

All connections are soffit to soffit

Pipe Materials Table

Pipe Materials Table	Pipe Materials Table
100	PVC-U
150	PVC-U
225	PVC-U
300	PVC-U
375	CONCRETE
450	CONCRETE
525	CONCRETE

Contractor may elect to use thermoplastics pipes. These shall comply with the relevant provisions of BS EN 1401-1, BS EN 1852 and BS EN 12666-1 and should be United Utilities approved products

Bedding and Surround Table

Depth to Soffit	Bedding and Surround Type
>1.2m	Class S
<1.2m	Class Z

Note:
Adoptable materials / workmanship to conform to Part E of "Sewers for Adoption" 7th Edition.

PLANNING

Rev.	Date	Revision	By	Appd.
B	23.01.26	Drawing number revised	JAR	JAR
A	15.10.25	Phase 6 levels reduced	OB	JAR

coopers
chartered consulting engineers
Park House
Sandpiper Court
Chester Business Park
Chester
CH4 9QU
Tel: 01244 684910
Email: admin@coopers.co.uk
Web: http://coopers.co.uk

Client

Story HOMES

Project

EDGEHILL PARK, CUMBRIA
PHASE 6

Title

HIGHWAY LONGSECTIONS
SHEET 3 OF 3

DRAWING NUMBER	SCALE at A0	1:500	
7503-P3 / PL02-3	DATE	26.03.25	REVISION
	DRAWN	JAR	B
	CHECKED	AJ	

0 5 10 15 20 25 30 35 40 45 50
SCALEBAR (m)

© Copyright The original of this drawing contained coloured symbols and/or features. Any black and white reproduction should not be relied upon.