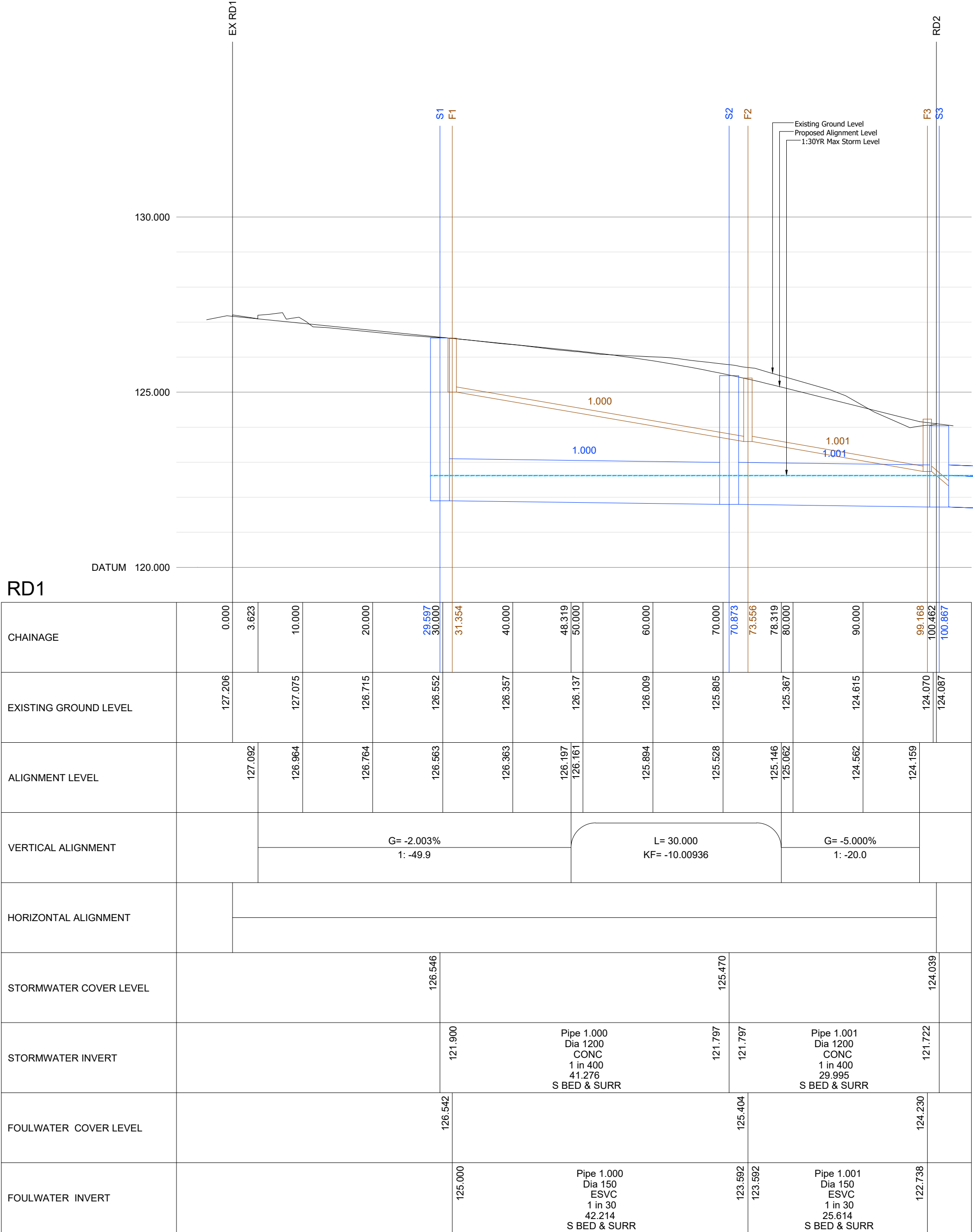


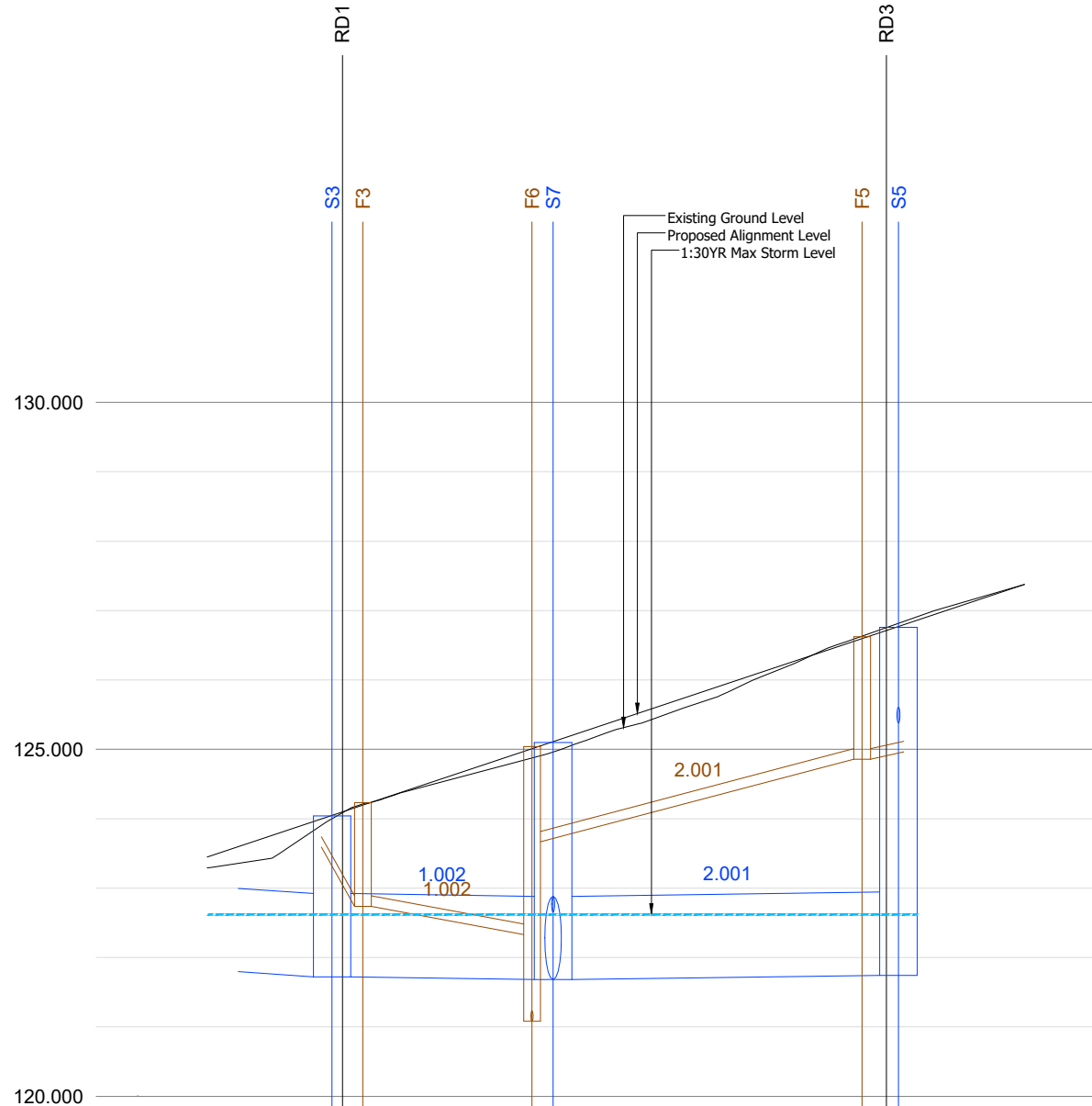
EX RD1

CHAINAGE	0.000	10.000	20.000
EXISTING GROUND LEVEL	126.845	127.173	127.465



RD1

CHAINAGE		0.000	3.823	10.000		20.000	28.547 30.000	31.354	40.000		48.319 50.000		60.000		70.000	70.873 73.556	78.319 80.000		90.000		99.168 100.882	103.867
EXISTING GROUND LEVEL		127.206		127.075		126.715	126.552		126.357		126.137		125.805		125.528		125.367		124.615		124.070	124.067
ALIGNMENT LEVEL		127.092		126.864		126.764	126.563		126.363		126.161		125.884		125.528		125.367		124.562		124.159	
VERTICAL ALIGNMENT	G= -2.003% 1: -49.9				L= 30.000 KF= -10.00936										G= -5.000% 1: -20.0							
HORIZONTAL ALIGNMENT																						
STORMWATER COVER LEVEL						126.546								125.470							124.039	
STORMWATER INVERT						121.900			Pipe 1.000 Dia 1200 CONC 1 in 400 41.276 S BED & SURR				121.797	121.797		Pipe 1.001 Dia 1200 CONC 1 in 400 29.995 S BED & SURR				121.722		
FOULWATER COVER LEVEL						126.542								125.404							124.230	
FOULWATER INVERT						125.000			Pipe 1.000 Dia 150 ESVC 1 in 30 42.214 S BED & SURR				123.592	123.592		Pipe 1.001 Dia 150 ESVC 1 in 30 25.614 S BED & SURR				122.738		



RD2

CHAINAGE	0.000	9.005	10.000	11.228	20.000	23.415	24.535	30.000	40.000	47.211	48.523	50.000	58.914
EXISTING GROUND LEVEL	123.291	124.115	124.696	124.782	125.449	126.116	126.782	126.829	127.377				
ALIGNMENT LEVEL	123.449	124.116	124.782	125.449	126.116	126.782	126.829	127.377					
VERTICAL ALIGNMENT	G= 0.667%												
HORIZONTAL ALIGNMENT													
STORMWATER COVER LEVEL		124.039		125.098				126.758					
STORMWATER INVERT		121.722	Pipe 1.002 Dia 1200 CONC 1 in 400 15.931 S BED & SURR	121.682	121.682	Pipe 2.001 Dia 1200 CONC 1 in 400 24.893 S BED & SURR	121.744						
FOULWATER COVER LEVEL		124.230		125.041				126.622					
FOULWATER INVERT		122.738	Pipe 1.002 Dia 150 ESVC 1 in 30 12.186 S BED & SURR	122.332	123.668	Pipe 2.001 Dia 150 ESVC 1 in 20 23.796 S BED & SURR	124.658						

ALL COVER & INVERT LEVEL INFORMATION HAS BEEN TAKEN FROM AVAILABLE TOPOGRAPHICAL SURVEY DATA OR UNITED UTILITY RECORDS AND CCTV REPORT. EXISTING PUBLIC FOUL AND SURFACE WATER SEWERS ARE TO BE ABOVE GROUND PROBED, ROUTED AND INTERNALLY SURVEYED WITH ALL INFORMATION PASSED TO SITE INFRASTRUCTURE SERVICES LTD FOR REVIEW PRIOR TO COMMENCEMENT ON SITE

UNDER NO CIRCUMSTANCES SHALL ANY PROPOSED LEVELS BE AMENDED WITHOUT THE PRIOR CONSULTATION WITH SITE INFRASTRUCTURE SERVICES LTD

**DESIGN NOTE**  
APPROVAL TO BE IN PLACE WITH UNITED UTILITIES BEFORE CONNECTION IS MADE TO THE PUBLIC SEWER SYSTEM

**DESIGN NOTE**  
REFER TO UTILITY SURVEY FOR EXACT POSITION OF THE EXISTING ELECTRICITY MAIN IN THIS VICINITY

**DESIGN NOTE**  
COVER LEVEL, INVERT LEVEL, CONDITION AND POSITION OF ALL EXISTING MANHOLES TO BE DETERMINED BEFORE COMMENCEMENT ONSITE.

- NOTE:**
- No dimensions are to be measured from this drawing.
  - All levels shown are in metres unless otherwise shown.
  - This drawing is to be read in conjunction with all relevant Architects, Planning and Infrastructure Design drawings.
  - The position and levels of all existing drains are to be confirmed on site prior to the commencement of the works and any discrepancies reported immediately to the engineer.
  - All private drainage is to be constructed in accordance with the latest edition of the Building Regulations Part H (Drainage & Waste Disposal) and to BS EN 752 (Building Drainage).
  - All adoptable drainage is to be in accordance with the requirements of Sewers for Adoption 6th Edition and the Sewerage Undertaker/Council.
  - All connections to existing public sewers are to be made to the satisfaction of the Sewerage Undertaker and the Local Authority.
  - Existing drains being abandoned are to be dealt with in the following manner:
    - Within 1.0m of proposed ground levels, drains are to be grubbed out.
    - Deeper than 1.0m of proposed ground levels drains are to be grouted with a 1:10 cement sand mix.
  - Any existing gully connections being abandoned are to be sealed with a concrete plug not less than 300mm thick at a level of 1.0m below ground.
  - Concrete protection of pipework is to be provided as follows:-
    - All pipework within pedestrian / soft areas with a cover less than 600mm.
    - All pipework beneath areas subject to vehicular overrun with a cover less than 1.2m.
  - All pipework within manholes are to be laid soffit to soffit.
  - Any gradients of drains are indicative only and The Contractor shall install drains to the invert levels shown for each manhole.
  - Any co-ordinate information regarding manholes is to the centre of the manhole.
  - Cover levels of the manholes are provisional and subject to adjustment to suit the finished ground levels.
  - The use of short radius bends for changes in direction is not permitted, only long radius bends or 2 No. are to be used.
  - Connections to carrier drains are to be "Y" junctions.
  - Manhole covers and frames are to be in accordance with BS EN 124 and the following criteria:-

Vehicular areas : Class D400 double triangular 150mm (min) deep ductile iron cover & frame with three-point cover seating.  
Pedestrian areas only : Class B125 double triangular 100mm (min) deep ductile iron cover & frame with three-point cover seating.
  - Heavy duty cover slabs are to be used with Class D400 frames.
  - Gully gratings and channel covers are to be in accordance with BS EN 124 as follows:
    - Areas subject to vehicular overrun: Class D400 minimum. Class F900 within service yard.
    - Areas not subject to vehicular overrun: Class C250
  - Gully gratings are to be double triangular ductile iron with a non-rock design and a 100mm deep frame.
  - Outside of sewers to be 1.0m (min) from kerb line.
  - Outside of manholes to be 0.5m (min) from kerb line.
  - All non-adoptable foul and surface water pipes to be 100 diameter unless noted otherwise.
  - Proposed 225mm diameter inspection chambers to be laid at a maximum depth of 600mm below GL.
  - Proposed 450mm diameter inspection chambers to be laid at a maximum depth of 3000mm below GL.
  - Installation of all pipework, manholes, gullies & channels etc are to be laid to manufacturers specification.

-	INITIAL ISSUE	13.05.2022	CML
Rev	Amendments	Date	Drawn
PROVISIONAL Subject to UU Approval			

Client

**gleeson**  
Building Homes. Changing Lives.

Project Title  
**Ivy Mills  
CUMBRIA**

Drawing Title	Scales H=1:100 V=1:500 @ A1		
PHASE 2 LONGITUDINAL SECTIONS 1 OF 2	Drawn	Date	
	CML	13.05.22	
	Ref	GHC-IM-C-P2-13-01	Rev
			-

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