

PROJECT	DATE	BY	REFERENCE
5028934 – Dig Gate Lane, Rochdale Balance Power	18/12/2025	CL	5028934-RDG-XX- ST-T-C-112601
TITLE	REV		
Planning Condition Discharge Technical Note	P03		

1. INTRODUCTION

Ridge have been appointed by Balance Power to produce a package of information to discharge two planning conditions associated with the proposed Gas Peaker construction at Dig Gate Lane, Rochdale.

This Technical Note provides a summary of the proposed drainage design and levels design to supplement the drawings aimed at discharging the planning conditions, namely:

- Condition 4 – Sustainable surface water drainage scheme and foul water drainage.
- Condition 13 – Retaining Structures

2. CONDITION 4 - SUSTAINABLE SURFACE WATER DRAINAGE SCHEME AND FOUL WATER DRAINAGE

"No development shall take place until details of a sustainable surface water drainage scheme and a foul water drainage scheme have been submitted to and approved in writing by the Local Planning Authority.

The drainage schemes shall include:

- i- An investigation of the hierarchy of drainage options in the National Planning. Practice Guidance (or any subsequent amendment thereof). This investigation shall include evidence of an assessment of ground conditions and the potential for infiltration of surface water in accordance with BRE365.*
- ii- Foul and surface water shall drain on separate systems.*
- iii- Levels of the proposed drainage systems including proposed ground and finished floor levels.*
- iv- Mitigation measures to manage the risk of sewer surcharge where applicable,*
- v- hard-standing areas of the access road.*
- vi- Construction details for permeable paving including sub-base details*

The approved scheme shall also be in accordance with the Non-Statutory Technical Standards for Sustainable Drainage Systems (March 2015) or any subsequent replacement national standards. Prior to occupation of the proposed development, the drainage schemes shall be completed in accordance with the approved details and retained thereafter.

Reason: To prevent an increased risk of flooding as a result of the development and to ensure satisfactory disposal of surface water from the site in accordance with Policy G8 of the adopted Rochdale Core Strategy, saved Policy EM/7 of the adopted Rochdale Unitary Development Plan and the National Planning Policy Framework.

Reason for pre-commencement condition: Drainage infrastructure will need to be implemented prior to commencement of above ground works and a scheme therefore needs to be agreed in advance of the same."

As there is no requirement for foul water on this site, there is no proposed foul water infrastructure within this site.

The proposed surface water drainage strategy utilises SuDS features by way of permeable sub base surfacing, a geocellular storage tank and a filter trench. All of these elements aim to both manage the flow of surface water into the system, and act as a form of water quality improvement.

It is not possible to utilise infiltrating SuDS features due to poor infiltration rates. Enzygo Environmental Consultants undertook infiltration testing in accordance with BRE:365 in August 2022, the results from these tests concluded that it was not possible to calculate an infiltration rate due to all four tests failing to reach the required parameters. An extract from this report can be found below.

Results and Conclusions

Infiltration rates were not shown to be favorable at soakaway locations SA1 to SA4, as they did not achieve the required '25% effective depth' within an appropriate timescale. Infiltration rates are given in Table 2 below and are included within the appendices.

Table 2: Soakaway Infiltration Rates

Test Pit	Soakaway Infiltration Rate (m/s)			Worst case Infiltration rate (m/s)
	Test 1	Test 2	Test 3	
SA1	Test did not achieve a required infiltration rate within 24 hours.			
SA2	Test did not achieve a required infiltration rate within 24 hours.			
SA3	Test did not achieve a required infiltration rate within 24 hours.			
SA4	Test did not achieve a required infiltration rate within 24 hours.			

Figure 1: Enzygo Infiltration Report Extract

The surface water landing on the embankments and part of the hard standing area will be captured by the filter trenches, pass through the gravel surround and carried to the proposed surface water network via a perforated pipe.

The majority of the surface water landing on the site will percolate into the permeable sub-base surfacing where it is drained to a piped network on the northern entrance of the site. The surfacing will be constructed 20mm open graded crushed rock with 30% void ratio. The permeable surfacing provides both surface water storage (within the voids) and treatment as contamination such as silt, sediment and hydrocarbons are caught in the strata before entering the drainage system.

The flow out of the site is restricted to 2.0l/s via a flow control device (HydroBrake or similar approved) to reduce the impact on the outfall into the existing ditch located northwest of the site. The decision to outfall to an existing ditch follows the drainage hierarchy that prefers connection to watercourses over sewers.

During heavy storm events, the build-up of surface water will back up the pipe immediately outside the site into an offline geocellular storage where it can be stored, removing any flooding from the proposed site and containing it in the tank. This will gradually release into the network at the controlled rate.

The calculations show that the only pipe that surcharges is "Pipe 03". As this is downstream from the HydroBrake and will not be subject to sudden inflows or large volumes of water, it is likely an anomaly in the modelling.

It is proposed to drain the remainder of the hard standing areas by way of a Gatic linear slot drain. This will service the vehicular crossover between the carriageway and the site so is not a significant area. The Gatic will have a sump at the outlet to collect debris such as leaves and silt before the water enters the system.

The proposed drainage layout can be found in Appendix A of this report and surface water drainage calculations can be found in Appendix B.

3. CONDITION 13 - RETAINING STRUCTURES

"Notwithstanding the details shown on the approved plans, the development hereby permitted, no above ground works shall take place until details of the type, siting, design and materials to be used in the construction of any retaining structures have been submitted to and approved in writing by the Local Planning Authority. Development shall be carried out in accordance with the duly approved details and retained as such thereafter.

Reason: In the interests of amenity and in compliance with Policies P3 and DM1 of the adopted Rochdale Core Strategy and the National Planning Policy Framework."

Due consideration has been given to various methods of forming the retaining features required to form the proposed platform for the proposed site.

Heavy retaining structures such as reinforced concrete or sheet pile retaining walls have been discounted in part due to the harsh aesthetic impact they would introduce, but also the practicality of installing on the steep topography.

The use of unreinforced embankments (max grade of 1:3) was also reviewed but discounted due to the large land take that encroaches outside the proposed planning boundary. This option also produced excessive muck-away material that significantly impacts the economic viability of proposed development.

With the above in consideration, it is proposed to use reinforced embankments for this site to achieve a gradient of 45° (1:1) with a maximum retained height of ;7.4m. These offer an aesthetically pleasing option as they can be planted, or grass seeded so they blend into the surrounding environment and stabilise the embankment while reducing the volume of excess material being taken off site.

It is currently proposed to use a Tensar Greenslope (or similar approved product) to create the reinforced embankment as these can achieve slopes of 70° so can easily accommodate the proposed 1:1 banking.

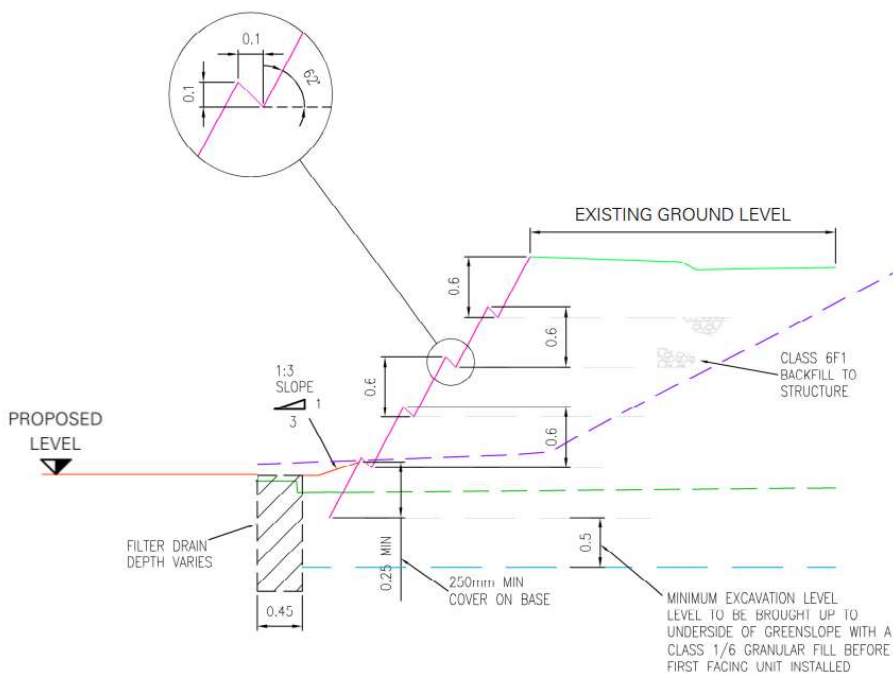


Figure 2: Tensar GreenSlope - Typical Dimensions Section

The proposed levels layout can be found in Appendix C of this report.

4. CONCLUSION

Ridge have been appointed by Balance Power to produce a package of information to discharge two planning conditions associated with the proposed Gas Peaker construction at Dig Gate Lane, Rochdale.

A proposed drainage design and proposed levels layout have been produced in order to discharge these conditions.

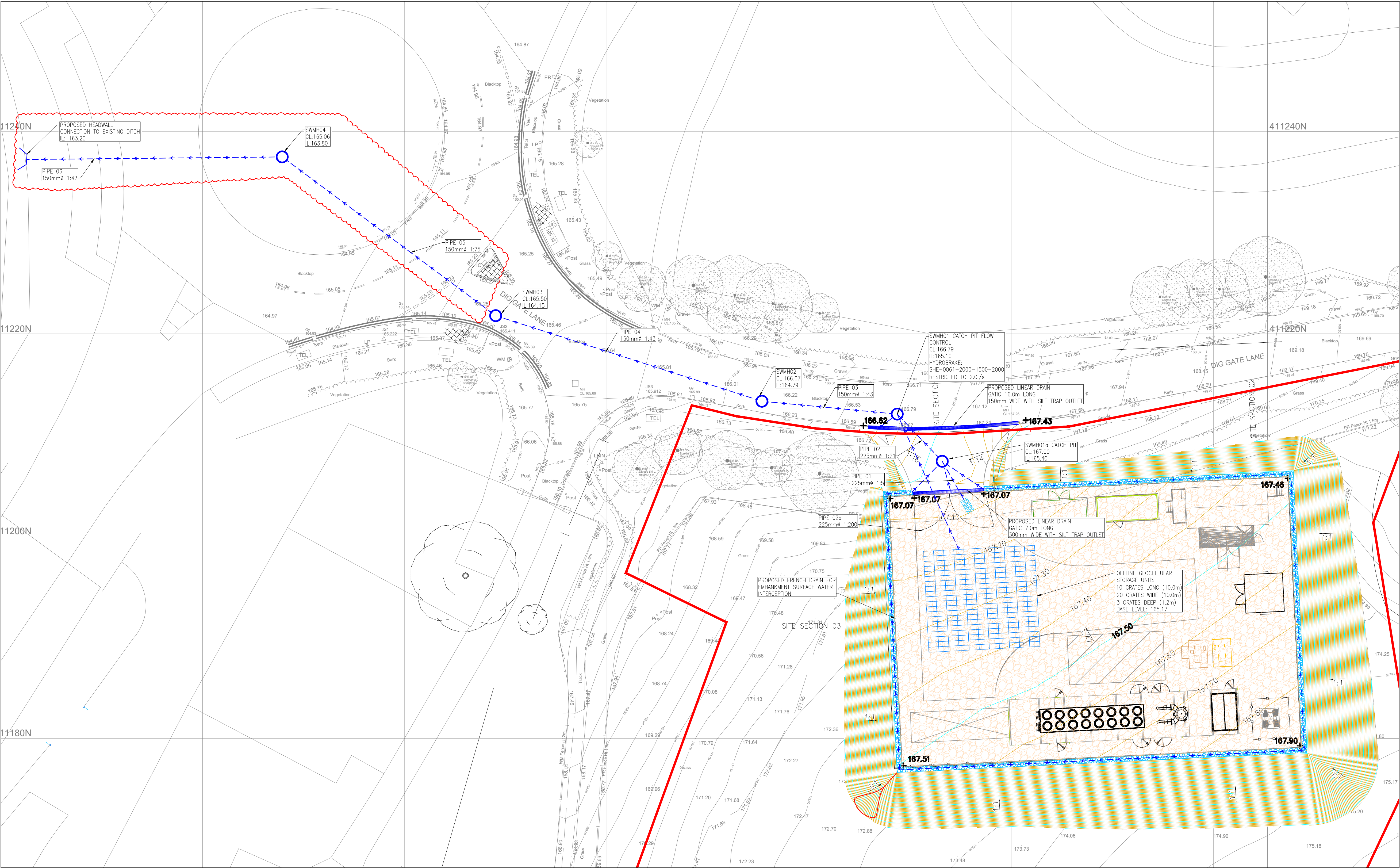
There is no foul water drainage on the proposed site.

The proposed surface water design utilises SuDS features in combination with traditional gravity drainage to improve the water quality from the site and reduce the impact of the proposed development on the existing drainage infrastructure.

The proposed site levels strike a balance between affordability and constructability by opting for reinforced embankments. These have limited aesthetic impact while also reducing the extent of the proposed excavation works.

Appendices for both of these designs can be found at the back of this report.

APPENDIX A – PROPOSED DRIANAGE LAYOUT

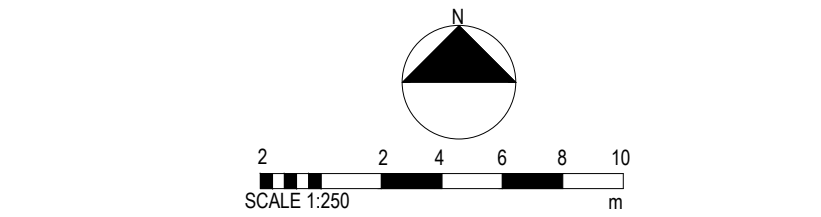


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CDM REGULATIONS 2015
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- LEGEND
- SITE BOUNDARY
 - PROPOSED PRIVATE S.W. DRAIN
 - PROPOSED MANHOLE
 - PROPOSED LINEAR DRAIN
 - PROPOSED FRENCH DRAIN TO DRAIN EMBANKMENT
 - PROPOSED GEOCELLULAR ATTENUATION (1x0.5x0.4m - LxWxH - 95% VOID RATIO)
 - PERMAVOID DIFFUSER UNIT
 - PERMEABLE SUB-BASE SURFACING (30% VOIDS) 0.4m DEEP



P03	SW DRAINAGE ADJUSTED TO REDLINE BOUNDARY	18/12/2025	SS	TC
P02	ISSUED FOR APPROVAL - PERMEABLE SUB-BASE SHOWN	24/10/2025	CL	TC
P01	INITIAL ISSUE	15/10/2025	CL	MC
REV	DESCRIPTION	DATE	BY	CHKD
ORIGINATOR: www.ridge.co.uk				



PROJECT NUMBER: 5029223

CLIENT:

BALANCE POWER

IN ASSOCIATION WITH:

PROJECT:

DIG GATE LANE GAS PEAKER

ROCHDALE

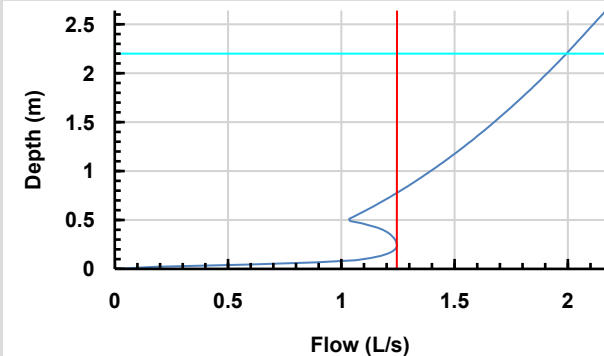
TITLE:

PROPOSED DRAINAGE STRATEGY LAYOUT

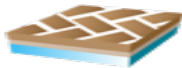
DRAWN BY:	CL	CHECKED BY:	APPROVED BY:				
SCALE:	1:500	@ A1	DATE:	15/10/2025			
STATUS:	DESCRIPTION:						
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DRAWING No: 5028934-RDG-XX-ST-D-C-110500							
PROJECT:	ORG:	FUNCTION:	SPATIAL:	FORM:	DISCIPLINE:	REV:	
5028934	RDG	XX	ST	D	C	110500 P03	

APPENDIX B – PROPOSED DRAINAGE CALCULATIONS

Dig Gate Lane: Rochdale Surface Water Drainage Calculations		Date: 24/10/2025		RIDGE	
Report Details: Type: Junctions Storm Phase: Phase		Designed by: CL	Checked by:		Approved By:
		Righe & Partners LLP: 1 Royal Court Winchester SO23 7TW			

Outlets				
Junction	Outlet Name		Outgoing Connection	Outlet Type
SWMH01a	Outlet		Pipe 02	Free Discharge
SWMH03	Outlet		Pipe 05	Free Discharge
SWMH04	Outlet		Pipe 06	Free Discharge
SWMH01 (1)	Outlet		(None)	Hydro-Brake®
	Invert Level (m)		165.100	
	Design Depth (m)		2.200	
	Design Flow (L/s)		2.0	
	Objective	Minimise Upstream Storage Requirements		
	Application	Surface Water Only		
	Sump Available	☒		
	Unit Reference		SHE-0056-2000-2200-2000	
				
	Outlet (1)		Pipe 03	Flap Valve
	Diameter (m)		0.150	
	Coefficient of Discharge		0.600	
	Invert Level (m)		165.100	
SWMH02	Outlet		Pipe 04	Free Discharge

Dig Gate Lane: Rochdale Surface Water Drainage Calculations	Date: 24/10/2025			RIDGE
	Designed by: CL	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Storm Phase: Phase	Righe & Partners LLP: 1 Royal Court Winchester SO23 7TW			



Porous Paving

Type : Porous Paving

Dimensions		
Exceedance Level (m)		167.300
Depth (m)		0.400
Base Level (m)		166.900
Paving Layer Depth (mm)		1
Membrane Percolation (m/hr)		1000.0
Porosity (%)		30
Length (m)		32.600
Long. Slope (1:X)		150.00
Width (m)		32.600
Total Volume (m³)		127.212

Outlets		
Outlet		
Outgoing Connection	Pipe 01	
Outlet Type	Free Discharge	

Advanced		
Conductivity (m/hr)		1000.0

Dig Gate Lane: Rochdale Surface Water Drainage Calculations	Date: 24/10/2025			RIDGE
	Designed by: CL	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Storm Phase: Phase	Righe & Partners LLP: 1 Royal Court Winchester SO23 7TW			



Cellular Storage

Type : Cellular Storage

Dimensions

Exceedance Level (m)	166.370
Depth (m)	1.200
Base Level (m)	165.170
Number of Crates Long	10
Number of Crates Wide	20
Number of Crates High	3
Porosity (%)	95
Crate Length (m)	1
Crate Width (m)	0.5
Crate Height (m)	0.4
Total Volume (m³)	114.000

Outlets

Outlet

Outgoing Connection	Pipe 02a
Outlet Type	Free Discharge

Dig Gate Lane: Rochdale Surface Water Drainage Calculations				Date: 24/10/2025				RIDGE		
				Designed by: CL		Checked by:			Approved By:	
Report Details: Type: Inflow Summary Storm Phase: Phase				Righe & Partners LLP: 1 Royal Court Winchester SO23 7TW						
Inflow Label		Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)	
Catchment Area		Porous Paving		Time of Concentration	0.19	100	0	100	0.19	
TOTAL		0.0			0.19				0.19	

Dig Gate Lane: Rochdale Surface Water Drainage Calculations	Date: 24/10/2025			RIDGE
	Designed by: CL	Checked by:	Approved By:	
Report Title: Rainfall Analysis Criteria	Righe & Partners LLP: 1 Royal Court Winchester SO23 7TW			

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Default
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	0
Junction Flood Risk Margin (mm)	300
Prefill Manhole Sumps	☐
Perform No Discharge Analysis	☐

Rainfall

FSR	Type: FSR
-----	-----------

Region	England And Wales
M5-60 (mm)	19.0
Ratio R	0.272
Summer	☒
Winter	☒

Return Period

Return Period (years)	Increase Rainfall (%)
1.0	0.000
10.0	0.000
30.0	0.000
30.0	40.000
100.0	0.000
100.0	45.000

Storm Durations

Duration (mins)	Run Time (mins)
15	30
30	60
60	120
120	240
240	480
360	720
480	960
960	1920
1440	2880

Dig Gate Lane: Rochdale Surface Water Drainage Calculations	Date: 24/10/2025			RIDGE
	Designed by: CL	Checked by:	Approved By:	
Report Details: Type: Inflows Summary Storm Phase: Phase	Righe & Partners LLP: 1 Royal Court Winchester SO23 7TW			



FSR: 1 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
Catchment Area	FSR: 1 years: +0 %: 15 mins: Summer	0.19	21.2	9.188

Dig Gate Lane: Rochdale Surface Water Drainage Calculations	Date: 24/10/2025			RIDGE
	Designed by: CL	Checked by:	Approved By:	
Report Details: Type: Inflows Summary Storm Phase: Phase	Righe & Partners LLP: 1 Royal Court Winchester SO23 7TW			



FSR: 10 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
Catchment Area	FSR: 10 years: +0 %: 15 mins: Summer	0.19	41.0	17.824

Dig Gate Lane: Rochdale Surface Water Drainage Calculations	Date: 24/10/2025			RIDGE
	Designed by: CL	Checked by:	Approved By:	
Report Details: Type: Inflows Summary Storm Phase: Phase	Righe & Partners LLP: 1 Royal Court Winchester SO23 7TW			



FSR: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
Catchment Area	FSR: 30 years: +0 %: 15 mins: Summer	0.19	51.8	22.484

Dig Gate Lane: Rochdale Surface Water Drainage Calculations	Date: 24/10/2025			RIDGE
	Designed by: CL	Checked by:	Approved By:	
Report Details: Type: Inflows Summary Storm Phase: Phase	Righe & Partners LLP: 1 Royal Court Winchester SO23 7TW			



FSR: 30 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
Catchment Area	FSR: 30 years: +40 %: 15 mins: Summer	0.19	72.5	31.486

Dig Gate Lane: Rochdale Surface Water Drainage Calculations	Date: 24/10/2025			RIDGE
	Designed by: CL	Checked by:	Approved By:	
Report Details: Type: Inflows Summary Storm Phase: Phase	Righe & Partners LLP: 1 Royal Court Winchester SO23 7TW			



FSR: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
Catchment Area	FSR: 100 years: +0 %: 15 mins: Summer	0.19	66.8	28.994

Dig Gate Lane: Rochdale Surface Water Drainage Calculations	Date: 24/10/2025			RIDGE
	Designed by: CL	Checked by:	Approved By:	
Report Details: Type: Inflows Summary Storm Phase: Phase	Righe & Partners LLP: 1 Royal Court Winchester SO23 7TW			



FSR: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
Catchment Area	FSR: 100 years: +45 %: 15 mins: Summer	0.19	96.9	42.052

Dig Gate Lane: Rochdale Surface Water Drainage Calculations	Date: 24/10/2025			RIDGE
	Designed by: CL	Checked by:	Approved By:	
Report Details: Type: Junctions Summary Storm Phase: Phase	Righe & Partners LLP: 1 Royal Court Winchester SO23 7TW			



FSR: 1 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
SWMH01a	FSR: 1 years: +0 %: 60 mins: Summer	167.000	165.100	165.426	0.326	3.0	0.000	3.0	7.576	OK
SWMH03	FSR: 1 years: +0 %: 60 mins: Summer	165.500	164.150	164.183	0.033	2.2	0.000	2.2	5.375	OK
SWMH04	FSR: 1 years: +0 %: 60 mins: Summer	164.500	163.300	163.625	0.325	2.2	0.000	2.3	5.007	OK
Outfall	FSR: 1 years: +0 %: 60 mins: Summer		163.300	163.324	0.024	2.3		2.3	5.007	OK
SWMH01 (1)	FSR: 1 years: +0 %: 60 mins: Summer	166.790	165.100	165.154	0.054	3.0	0.000	2.9	7.522	OK
SWMH02	FSR: 1 years: +0 %: 60 mins: Summer	166.070	164.790	164.820	0.030	2.1	0.000	2.2	5.467	OK

Dig Gate Lane: Rochdale Surface Water Drainage Calculations	Date: 24/10/2025			RIDGE
	Designed by: CL	Checked by:	Approved By:	
Report Details: Type: Junctions Summary Storm Phase: Phase	Righe & Partners LLP: 1 Royal Court Winchester SO23 7TW			



FSR: 10 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
SWMH01a	FSR: 10 years: +0 %: 30 mins: Summer	167.000	165.100	165.438	0.338	6.3	0.000	6.2	7.799	OK
SWMH03	FSR: 10 years: +0 %: 15 mins: Summer	165.500	164.150	164.199	0.049	4.5	0.000	4.7	2.598	OK
SWMH04	FSR: 10 years: +0 %: 15 mins: Summer	164.500	163.300	163.636	0.336	4.7	0.000	4.7	2.227	OK
Outfall	FSR: 10 years: +0 %: 15 mins: Summer		163.300	163.334	0.034	4.7		4.7	2.227	OK
SWMH01 (1)	FSR: 10 years: +0 %: 30 mins: Summer	166.790	165.100	165.189	0.089	6.2	0.000	5.8	7.719	OK
SWMH02	FSR: 10 years: +0 %: 60 mins: Summer	166.070	164.790	164.835	0.045	4.6	0.000	4.6	11.861	OK

Dig Gate Lane: Rochdale Surface Water Drainage Calculations	Date: 24/10/2025			RIDGE
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Report Details: Type: Junctions Summary Storm Phase: Phase	Righe & Partners LLP: 1 Royal Court Winchester SO23 7TW			



FSR: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
SWMH01a	FSR: 30 years: +0 %: 30 mins: Summer	167.000	165.100	165.443	0.343	8.2	0.000	8.2	10.525	OK
SWMH03	FSR: 30 years: +0 %: 15 mins: Summer	165.500	164.150	164.206	0.056	5.8	0.000	6.3	3.582	OK
SWMH04	FSR: 30 years: +0 %: 15 mins: Summer	164.500	163.300	163.642	0.342	6.3	0.000	6.3	3.208	OK
Outfall	FSR: 30 years: +0 %: 15 mins: Summer		163.300	163.340	0.040	6.3		6.3	3.208	OK
SWMH01 (1)	FSR: 30 years: +0 %: 30 mins: Summer	166.790	165.100	165.207	0.107	8.2	0.000	7.5	10.437	OK
SWMH02	FSR: 30 years: +0 %: 30 mins: Summer	166.070	164.790	164.842	0.052	6.3	0.000	6.2	7.777	OK

Dig Gate Lane: Rochdale Surface Water Drainage Calculations	Date: 24/10/2025			RIDGE
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FSR: 30 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
SWMH01a	FSR: 30 years: +40 %: 60 mins: Summer	167.000	165.100	165.451	0.351	11.9	0.000	11.9	31.934	OK
SWMH03	FSR: 30 years: +40 %: 30 mins: Summer	165.500	164.150	164.219	0.069	9.0	0.000	8.8	11.809	OK
SWMH04	FSR: 30 years: +40 %: 15 mins: Summer	164.500	163.300	163.651	0.351	8.7	0.000	8.8	5.186	OK
Outfall	FSR: 30 years: +40 %: 30 mins: Summer		163.300	163.347	0.047	8.8		8.8	11.424	OK
SWMH01 (1)	FSR: 30 years: +40 %: 30 mins: Summer	166.790	165.100	165.234	0.134	11.8	0.000	10.3	16.065	OK
SWMH02	FSR: 30 years: +40 %: 30 mins: Summer	166.070	164.790	164.854	0.064	9.1	0.000	9.0	12.025	OK

Dig Gate Lane: Rochdale Surface Water Drainage Calculations	Date: 24/10/2025			RIDGE
	Designed by: CL	Checked by:	Approved By:	
Report Details: Type: Junctions Summary Storm Phase: Phase	Righe & Partners LLP: 1 Royal Court Winchester SO23 7TW			



FSR: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
SWMH01a	FSR: 100 years: +0 %: 60 mins: Summer	167.000	165.100	165.450	0.350	11.1	0.000	11.1	29.635	OK
SWMH03	FSR: 100 years: +0 %: 60 mins: Summer	165.500	164.150	164.216	0.066	8.4	0.000	8.2	22.711	OK
SWMH04	FSR: 100 years: +0 %: 15 mins: Summer	164.500	163.300	163.649	0.349	8.1	0.000	8.2	4.628	OK
Outfall	FSR: 100 years: +0 %: 15 mins: Summer		163.300	163.345	0.045	8.2		8.2	4.628	OK
SWMH01 (1)	FSR: 100 years: +0 %: 30 mins: Summer	166.790	165.100	165.228	0.128	11.0	0.000	9.7	14.667	OK
SWMH02	FSR: 100 years: +0 %: 30 mins: Summer	166.070	164.790	164.852	0.062	8.4	0.000	8.4	10.989	OK

Dig Gate Lane: Rochdale Surface Water Drainage Calculations	Date: 24/10/2025			RIDGE
	Designed by: CL	Checked by:	Approved By:	
Report Details: Type: Junctions Summary Storm Phase: Phase	Righe & Partners LLP: 1 Royal Court Winchester SO23 7TW			



FSR: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
SWMH01a	FSR: 100 years: +45 %: 60 mins: Summer	167.000	165.100	165.464	0.364	17.0	0.000	17.0	45.988	OK
SWMH03	FSR: 100 years: +45 %: 30 mins: Summer	165.500	164.150	164.235	0.085	12.6	0.000	12.5	17.605	OK
SWMH04	FSR: 100 years: +45 %: 30 mins: Summer	164.500	163.300	163.663	0.363	12.5	0.000	12.5	17.209	OK
Outfall	FSR: 100 years: +45 %: 30 mins: Summer		163.300	163.357	0.057	12.5		12.5	17.209	OK
SWMH01 (1)	FSR: 100 years: +45 %: 15 mins: Summer	166.790	165.100	165.251	0.151	15.6	0.000	14.1	11.028	Surcharged
SWMH02	FSR: 100 years: +45 %: 30 mins: Summer	166.070	164.790	164.868	0.078	12.6	0.000	12.6	17.897	OK

Dig Gate Lane: Rochdale Surface Water Drainage Calculations	Date: 24/10/2025			RIDGE
	Designed by: CL	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	Righe & Partners LLP: 1 Royal Court Winchester SO23 7TW			



FSR: 1 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Half Drain Down Time (mins)	Percentage Available (%)	Status
Cellular Storage	FSR: 1 years: +0 %: 15 mins: Summer	165.170	165.170	0.000	0.000	0.0	0.000	0.000	0.0		100.000	OK
Porous Paving	FSR: 1 years: +0 %: 360 mins: Summer	167.158	166.915	0.041	0.015	6.3	16.947	0.000	2.4	74	86.679	OK

Dig Gate Lane: Rochdale Surface Water Drainage Calculations	Date: 24/10/2025			RIDGE
	Designed by: CL	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	Righe & Partners LLP: 1 Royal Court Winchester SO23 7TW			



FSR: 10 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Half Drain Down Time (mins)	Percentage Available (%)	Status
Cellular Storage	FSR: 10 years: +0 %: 120 mins: Summer	165.172	165.172	0.002	0.002	0.2	0.194	0.000	0.0		99.830	OK
Porous Paving	FSR: 10 years: +0 %: 240 mins: Summer	167.198	166.920	0.080	0.020	13.8	27.528	0.000	4.8	64	78.361	OK

Dig Gate Lane: Rochdale Surface Water Drainage Calculations	Date: 24/10/2025			RIDGE
	Designed by: CL	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	Righe & Partners LLP: 1 Royal Court Winchester SO23 7TW			



FSR: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Half Drain Down Time (mins)	Percentage Available (%)	Status
Cellular Storage	FSR: 30 years: +0 %: 240 mins: Summer	165.181	165.181	0.011	0.011	0.6	1.043	0.000	0.2		99.085	OK
Porous Paving	FSR: 30 years: +0 %: 240 mins: Summer	167.223	166.923	0.106	0.023	17.5	34.071	0.000	6.3	60	73.217	OK

Dig Gate Lane: Rochdale Surface Water Drainage Calculations	Date: 24/10/2025			RIDGE
	Designed by: CL	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	Righe & Partners LLP: 1 Royal Court Winchester SO23 7TW			



FSR: 30 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Half Drain Down Time (mins)	Percentage Available (%)	Status
Cellular Storage	FSR: 30 years: +40 %: 360 mins: Summer	165.206	165.206	0.036	0.036	1.6	3.427	0.000	0.6		96.994	OK
Porous Paving	FSR: 30 years: +40 %: 240 mins: Summer	167.272	166.928	0.155	0.028	24.5	45.854	0.000	9.4	53	63.955	OK

Dig Gate Lane: Rochdale Surface Water Drainage Calculations	Date: 24/10/2025			RIDGE
	Designed by: CL	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	Righe & Partners LLP: 1 Royal Court Winchester SO23 7TW			



FSR: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Half Drain Down Time (mins)	Percentage Available (%)	Status
Cellular Storage	FSR: 100 years: +0 %: 240 mins: Summer	165.199	165.199	0.029	0.029	1.5	2.759	0.000	0.5		97.580	OK
Porous Paving	FSR: 100 years: +0 %: 240 mins: Summer	167.259	166.927	0.142	0.027	22.8	42.914	0.000	8.6	54	66.266	OK

Dig Gate Lane: Rochdale Surface Water Drainage Calculations	Date: 24/10/2025			RIDGE
	Designed by: CL	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	Righe & Partners LLP: 1 Royal Court Winchester SO23 7TW			



FSR: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Half Drain Down Time (mins)	Percentage Available (%)	Status
Cellular Storage	FSR: 100 years: +45 %: 240 mins: Summer	165.239	165.239	0.069	0.069	3.5	6.532	0.000	0.9		94.270	OK
Porous Paving	FSR: 100 years: +45 %: 240 mins: Summer	167.330	166.933	0.213	0.033	33.0	59.359	0.000	13.4	47	53.338	OK

Dig Gate Lane: Rochdale Surface Water Drainage Calculations	Date: 24/10/2025			RIDGE
	Designed by: CL	Checked by:	Approved By:	
Report Details: Type: Connections Summary Storm Phase: Phase	Righe & Partners LLP: 1 Royal Court Winchester SO23 7TW			



FSR: 1 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
Pipe 05	FSR: 1 years: +0 %: 60 mins: Summer	Pipe	SWMH03	SWMH04	165.500	164.183	0.033	5.375	0.8	0.1	2.2	OK
Pipe 06	FSR: 1 years: +0 %: 60 mins: Summer	Pipe	SWMH04	Outfall	164.500	163.625	0.024	5.007	1.2	0.06	2.3	OK
Pipe 02	FSR: 1 years: +0 %: 60 mins: Summer	Pipe	SWMH01a	SWMH01 (1)	167.000	165.426	0.040	7.576	0.6	0.03	3.0	OK
Pipe 03	FSR: 1 years: +0 %: 60 mins: Summer	Pipe	SWMH01 (1)	SWMH02	166.790	165.154	0.028	5.508	0.9	0.06	2.1	OK
Pipe 04	FSR: 1 years: +0 %: 60 mins: Summer	Pipe	SWMH02	SWMH03	166.070	164.820	0.032	5.467	0.8	0.09	2.2	OK
Pipe 02a	FSR: 1 years: +0 %: 15 mins: Summer	Pipe	Cellular Storage	SWMH01 (1)	166.370	165.170	0.025	0.000	0.0	0	0.0	OK
Pipe 01	FSR: 1 years: +0 %: 60 mins: Summer	Pipe	Porous Paving	SWMH01a	167.517	166.940	0.021	7.949	1.6	0.01	3.0	OK

Dig Gate Lane: Rochdale Surface Water Drainage Calculations	Date: 24/10/2025			RIDGE
	Designed by: CL	Checked by:	Approved By:	
Report Details: Type: Connections Summary Storm Phase: Phase	Righe & Partners LLP: 1 Royal Court Winchester SO23 7TW			



FSR: 10 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
Pipe 05	FSR: 10 years: +0 %: 15 mins: Summer	Pipe	SWMH03	SWMH04	165.500	164.199	0.048	2.598	1.0	0.22	4.7	OK
Pipe 06	FSR: 10 years: +0 %: 15 mins: Summer	Pipe	SWMH04	Outfall	164.500	163.636	0.035	2.227	1.5	0.12	4.7	OK
Pipe 02	FSR: 10 years: +0 %: 30 mins: Summer	Pipe	SWMH01a	SWMH01 (1)	167.000	165.438	0.063	7.799	0.9	0.06	6.2	OK
Pipe 03	FSR: 10 years: +0 %: 60 mins: Summer	Pipe	SWMH01 (1)	SWMH02	166.790	165.188	0.042	11.922	1.2	0.14	4.6	OK
Pipe 04	FSR: 10 years: +0 %: 60 mins: Summer	Pipe	SWMH02	SWMH03	166.070	164.835	0.045	11.861	1.0	0.19	4.6	OK
Pipe 02a	FSR: 10 years: +0 %: 120 mins: Summer	Pipe	Cellular Storage	SWMH01 (1)	166.370	165.172	0.041	0.000	0.0	0	0.0	OK
Pipe 01	FSR: 10 years: +0 %: 30 mins: Summer	Pipe	Porous Paving	SWMH01a	167.517	166.959	0.030	8.178	2.0	0.02	6.3	OK

Dig Gate Lane: Rochdale Surface Water Drainage Calculations	Date: 24/10/2025			RIDGE
	Designed by: CL	Checked by:	Approved By:	
Report Details: Type: Connections Summary Storm Phase: Phase	Righe & Partners LLP: 1 Royal Court Winchester SO23 7TW			



FSR: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
Pipe 05	FSR: 30 years: +0 %: 15 mins: Summer	Pipe	SWMH03	SWMH04	165.500	164.206	0.056	3.582	1.0	0.29	6.3	OK
Pipe 06	FSR: 30 years: +0 %: 15 mins: Summer	Pipe	SWMH04	Outfall	164.500	163.642	0.041	3.208	1.6	0.15	6.3	OK
Pipe 02	FSR: 30 years: +0 %: 30 mins: Summer	Pipe	SWMH01a	SWMH01 (1)	167.000	165.443	0.075	10.525	0.8	0.08	8.2	OK
Pipe 03	FSR: 30 years: +0 %: 30 mins: Summer	Pipe	SWMH01 (1)	SWMH02	166.790	165.207	0.049	7.844	1.2	0.19	6.3	OK
Pipe 04	FSR: 30 years: +0 %: 30 mins: Summer	Pipe	SWMH02	SWMH03	166.070	164.842	0.054	7.777	1.1	0.26	6.2	OK
Pipe 02a	FSR: 30 years: +0 %: 240 mins: Summer	Pipe	Cellular Storage	SWMH01 (1)	166.370	165.181	0.046	0.000	0.0	0	0.2	OK
Pipe 01	FSR: 30 years: +0 %: 30 mins: Summer	Pipe	Porous Paving	SWMH01a	167.517	166.974	0.034	10.910	2.1	0.03	8.2	OK

Dig Gate Lane: Rochdale Surface Water Drainage Calculations	Date: 24/10/2025			RIDGE
	Designed by: CL	Checked by:	Approved By:	
Report Details: Type: Connections Summary Storm Phase: Phase	Righe & Partners LLP: 1 Royal Court Winchester SO23 7TW			



FSR: 30 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
Pipe 05	FSR: 30 years: +40 %: 30 mins: Summer	Pipe	SWMH03	SWMH04	165.500	164.219	0.068	11.809	1.1	0.41	8.8	OK
Pipe 06	FSR: 30 years: +40 %: 15 mins: Summer	Pipe	SWMH04	Outfall	164.500	163.651	0.049	5.186	1.8	0.22	8.8	OK
Pipe 02	FSR: 30 years: +40 %: 60 mins: Summer	Pipe	SWMH01a	SWMH01 (1)	167.000	165.451	0.092	31.934	0.8	0.12	11.9	OK
Pipe 03	FSR: 30 years: +40 %: 30 mins: Summer	Pipe	SWMH01 (1)	SWMH02	166.790	165.234	0.060	12.117	1.4	0.28	9.1	OK
Pipe 04	FSR: 30 years: +40 %: 30 mins: Summer	Pipe	SWMH02	SWMH03	166.070	164.854	0.067	12.025	1.2	0.38	9.0	OK
Pipe 02a	FSR: 30 years: +40 %: 120 mins: Winter	Pipe	Cellular Storage	SWMH01 (1)	166.370	165.200	0.065	0.000	0.1	0.02	0.8	OK
Pipe 01	FSR: 30 years: +40 %: 60 mins: Summer	Pipe	Porous Paving	SWMH01a	167.517	167.023	0.041	32.328	2.4	0.04	11.9	OK

Dig Gate Lane: Rochdale Surface Water Drainage Calculations	Date: 24/10/2025			RIDGE
	Designed by: CL	Checked by:	Approved By:	
Report Details: Type: Connections Summary Storm Phase: Phase	Righe & Partners LLP: 1 Royal Court Winchester SO23 7TW			



FSR: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
Pipe 05	FSR: 100 years: +0 %: 60 mins: Summer	Pipe	SWMH03	SWMH04	165.500	164.216	0.065	22.711	1.1	0.38	8.2	OK
Pipe 06	FSR: 100 years: +0 %: 15 mins: Summer	Pipe	SWMH04	Outfall	164.500	163.649	0.047	4.628	1.7	0.2	8.2	OK
Pipe 02	FSR: 100 years: +0 %: 60 mins: Summer	Pipe	SWMH01a	SWMH01 (1)	167.000	165.450	0.089	29.635	0.8	0.11	11.1	OK
Pipe 03	FSR: 100 years: +0 %: 30 mins: Summer	Pipe	SWMH01 (1)	SWMH02	166.790	165.228	0.058	11.075	1.3	0.26	8.4	OK
Pipe 04	FSR: 100 years: +0 %: 30 mins: Summer	Pipe	SWMH02	SWMH03	166.070	164.852	0.064	10.989	1.2	0.35	8.4	OK
Pipe 02a	FSR: 100 years: +0 %: 120 mins: Winter	Pipe	Cellular Storage	SWMH01 (1)	166.370	165.194	0.059	0.000	0.1	0.02	0.6	OK
Pipe 01	FSR: 100 years: +0 %: 60 mins: Summer	Pipe	Porous Paving	SWMH01a	167.517	167.016	0.040	30.027	2.3	0.04	11.1	OK

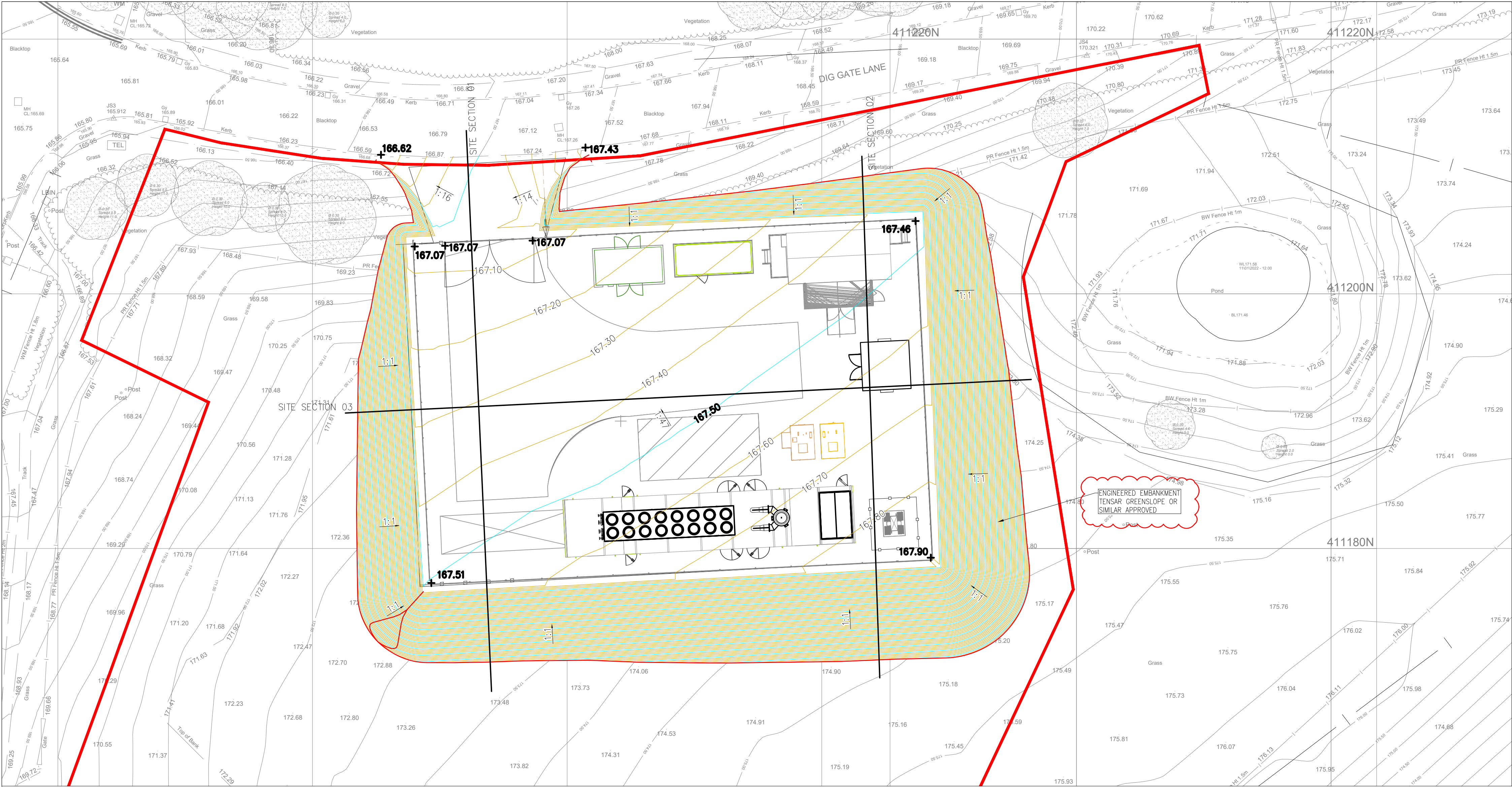
Dig Gate Lane: Rochdale Surface Water Drainage Calculations	Date: 24/10/2025			RIDGE
	Designed by: CL	Checked by:	Approved By:	
Report Details: Type: Connections Summary Storm Phase: Phase	Righe & Partners LLP: 1 Royal Court Winchester SO23 7TW			



FSR: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Flow

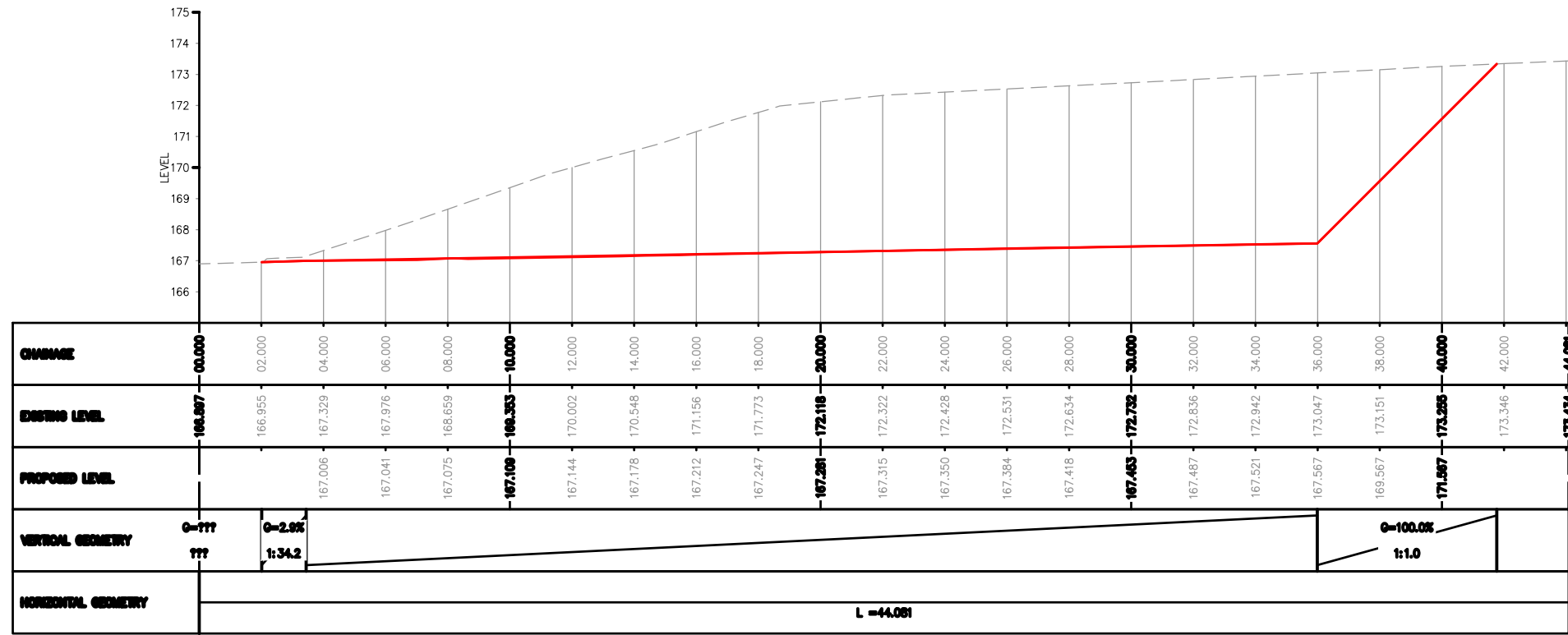
Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
Pipe 05	FSR: 100 years: +45 %: 30 mins: Summer	Pipe	SWMH03	SWMH04	165.500	164.235	0.083	17.605	1.2	0.58	12.5	OK
Pipe 06	FSR: 100 years: +45 %: 30 mins: Summer	Pipe	SWMH04	Outfall	164.500	163.663	0.060	17.209	1.9	0.3	12.5	OK
Pipe 02	FSR: 100 years: +45 %: 60 mins: Summer	Pipe	SWMH01a	SWMH01 (1)	167.000	165.464	0.107	45.988	0.9	0.16	17.0	OK
Pipe 03	FSR: 100 years: +45 %: 30 mins: Summer	Pipe	SWMH01 (1)	SWMH02	166.790	165.250	0.073	18.021	1.5	0.38	12.6	Surcharged
Pipe 04	FSR: 100 years: +45 %: 30 mins: Summer	Pipe	SWMH02	SWMH03	166.070	164.868	0.081	17.897	1.3	0.52	12.6	OK
Pipe 02a	FSR: 100 years: +45 %: 120 mins: Winter	Pipe	Cellular Storage	SWMH01 (1)	166.370	165.232	0.097	0.000	0.1	0.04	1.5	OK
Pipe 01	FSR: 100 years: +45 %: 60 mins: Summer	Pipe	Porous Paving	SWMH01a	167.517	167.062	0.051	46.388	2.5	0.06	17.0	OK

APPENDIX C – PROPOSED LEVELS LAYOUT

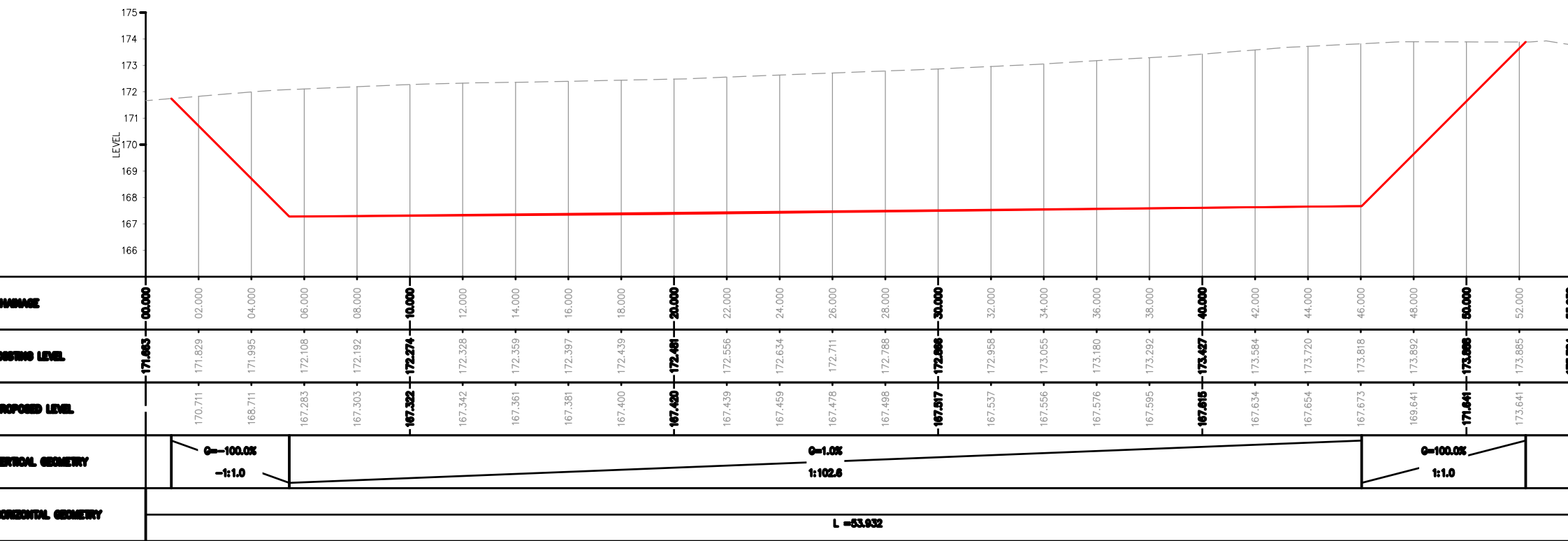


SITE SECTION 03 - Longitudinal Section
SCALE: H 1:100, V 1:100, DATUM: 165.000

SITE SECTION 01 - Longitudinal Section
SCALE: H 1:100, V 1:100, DATUM: 165.000



SITE SECTION 03 - Longitudinal Section
SCALE: H 1:100, V 1:100, DATUM: 165.000



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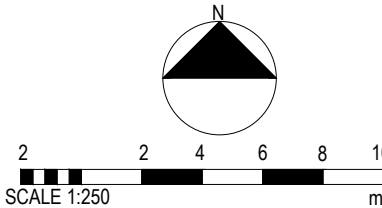
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LEGEND

- SITE BOUNDARY
- MINOR CONTOUR (0.1m INTERVAL)
- MAJOR CONTOUR (0.5m INTERVAL)
- PROPOSED SURFACE GRADIENT
- PROPOSED SPOT LEVEL



P02	ISSUED FOR APPROVAL - SLOPE NOTE AMENDED	18/07/2025	CL	MG
P01	INITIAL ISSUE	18/07/2025	CL	MG
REV	DESCRIPTION	DATE	BY	CHKD

ORIGINATOR: www.ridge.co.uk

RIDGE

PROJECT NUMBER: 5029223

CLIENT:

BALANCE POWER

IN ASSOCIATION WITH:

PROJECT:
DIG GATE LANE GAS PEAKER
ROCHDALE

TITLE:
PROPOSED LEVELS LAYOUT

DRAWN BY:	CL	CHECKED BY:	APPROVED BY:
SCALE:	1:500 @ A1	DATE:	18/07/2025
STATUS:	DESCRIPTION:		
S0	WORK IN PROGRESS		
DRAWING No:	5028934-RDG-XX-ST-D-C-110602		
PROJECT:	ORG:	FUNCTION:	SPATIAL:
5028934	RDG	XX	ST
			D
			C
			110602
			P02