

APPENDIX E – EA Flood Map

Flood map for planning

Your reference
<Unspecified>

Location (easting/northing)
567083/171738

Created
16 Sep 2022 15:02

Your selected location is in flood zone 1, an area with a low probability of flooding.

You will need to do a flood risk assessment if your site is **any of the following:**

- bigger than 1 hectare (ha)
- In an area with critical drainage problems as notified by the Environment Agency
- identified as being at increased flood risk in future by the local authority's strategic flood risk assessment
- at risk from other sources of flooding (such as surface water or reservoirs) and its development would increase the vulnerability of its use (such as constructing an office on an undeveloped site or converting a shop to a dwelling)

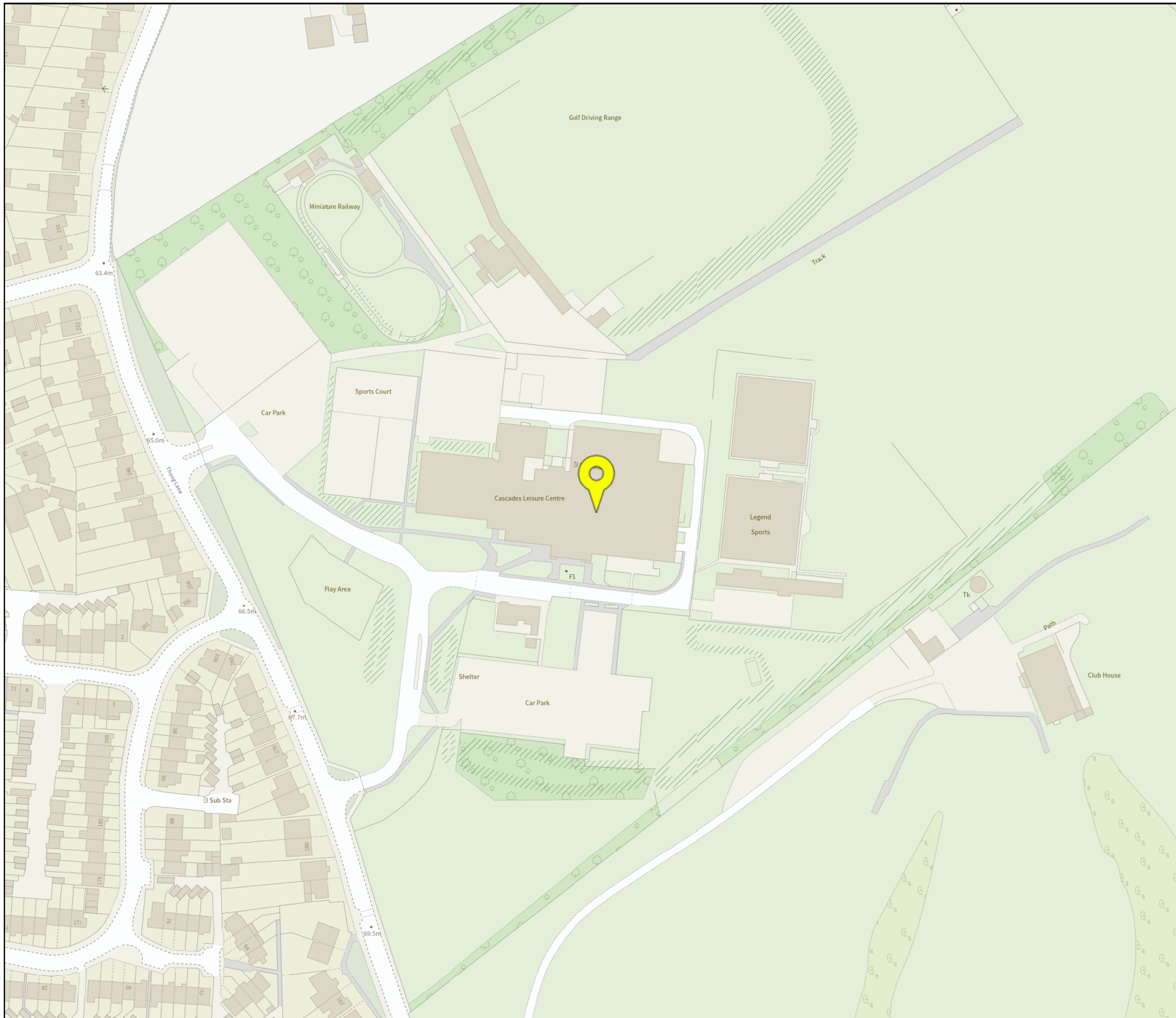
Notes

The flood map for planning shows river and sea flooding data only. It doesn't include other sources of flooding. It is for use in development planning and flood risk assessments.

This information relates to the selected location and is not specific to any property within it. The map is updated regularly and is correct at the time of printing.

Flood risk data is covered by the Open Government Licence **which** sets out the terms and conditions for using government data. <https://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/>

Use of the address and mapping data is subject to Ordnance Survey public viewing terms under Crown copyright and database rights 2021 OS 100024198. <https://flood-map-for-planning.service.gov.uk/os-terms>



Flood map for planning

Your reference
<Unspecified>

Location (easting/northing)
567083/171738

Scale
1:2500

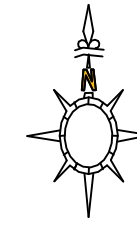
Created
16 Sep 2022 15:02

-  Selected point
-  Flood zone 3
-  Flood zone 3: areas benefitting from flood defences
-  Flood zone 2
-  Flood zone 1
-  Flood defence
-  Main river
-  Water storage area

0 20 40 60m

APPENDIX F – Utility Survey Map

- [illegible]

[illegible]

Level Datum:
Levels are related to OSGB15 derived from the GPS network

Grid:
Grid is related to OSGB15 derived from GPS network

Northpoint:
The Northpoint position shown on this drawing has been located as accurately as possible, but is only indicative of true North



Encompass Surveys Ltd
Unit 2, Talisman Business Centre
Duncan Road
Park Gate
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Hampshire SO31 7GA

Tel: 023 80692002
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Website: encompass-surveys.co.uk

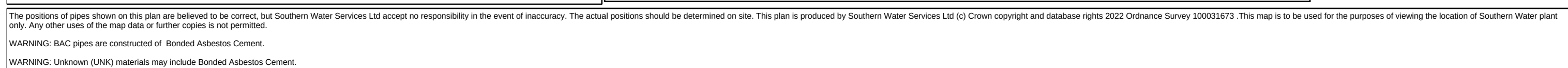
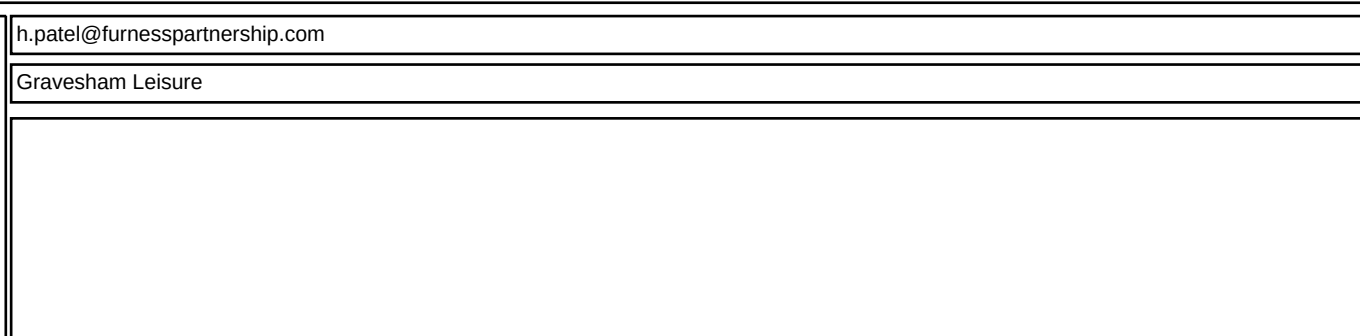
Client:	Space & Place Architects
Survey Location:	Cascades Leisure Centre Thong Lane Gravesend
Construction:	1970s
Condition:	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

Survey type:	utility	Scale:	1:200 @ AU
Drawing ref:	ENC/231122/2521U1	Date:	Nov 2022
Drawn/QA:	RA/DS	Plots:	2 of 4

APPENDIX G – Southern Water Asset Plan

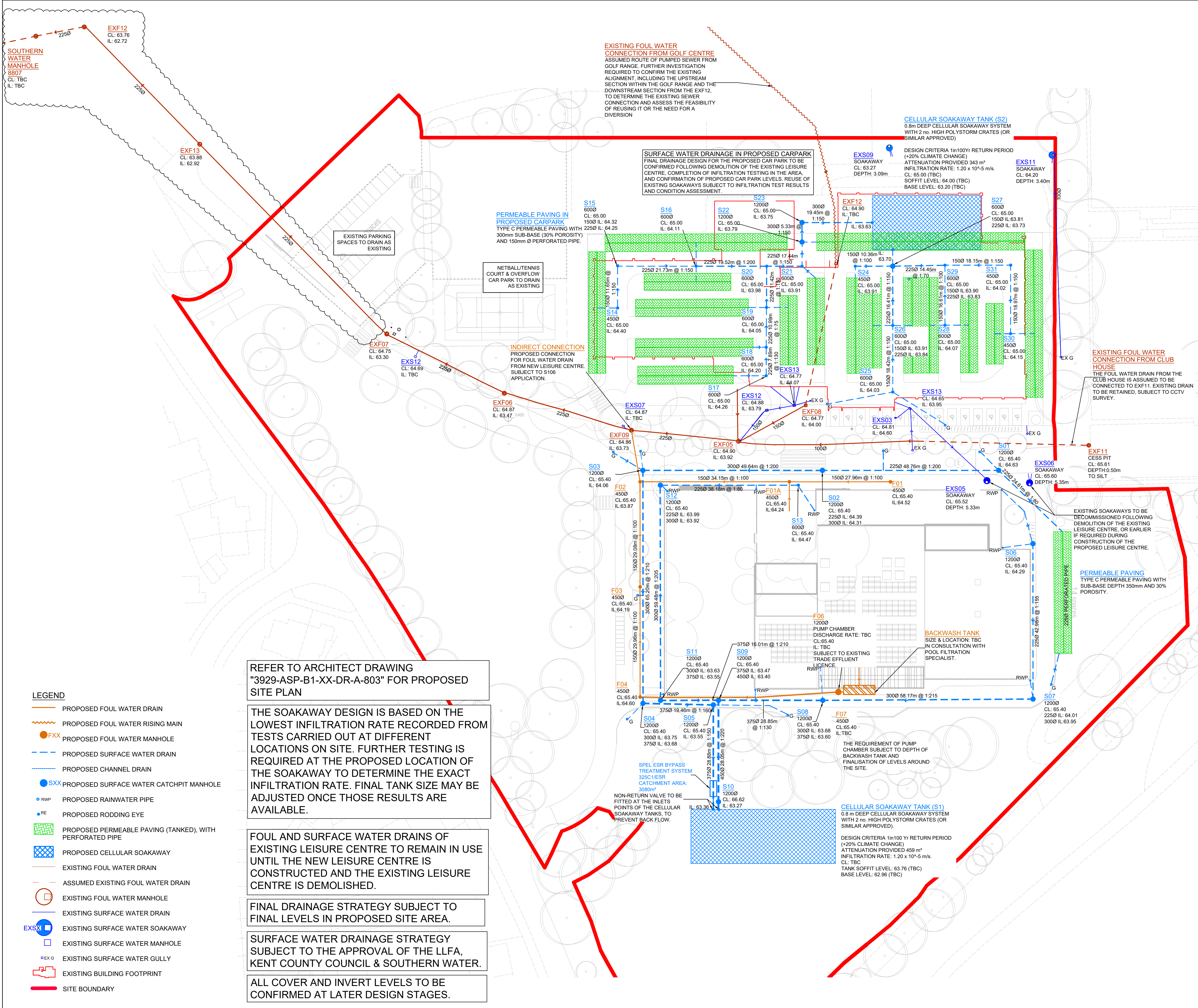


Wastewater Plan A2
Powered by digdat



APPENDIX H – Proposed Below Ground Drainage Layout

APPENDIX I – Proposed Drainage Strategy Catchment Area Plan



- NOTES:
- DRAINAGE STRATEGY TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
 - LOCATION OF ALL EXISTING DRAINAGE TO BE CONFIRMED ON SITE PRIOR TO COMMENCEMENT OF WORKS AS IT IS APPROXIMATELY TRANSLATED FROM SURVEY DRAWING.
 - ALL DRAINAGE AT MANHOLES/ACCESS CHAMBERS TO CONNECT WITH SOFFITS LEVEL UNLESS OTHERWISE NOTED.
 - ALL PROPOSED SURFACE WATER DRAINAGE TO BE 150mm DIA. LAID AT FALLS NOT LESS THAN 1:150 UNLESS OTHERWISE NOTED.
 - ALL FOUL DRAINAGE TO BE 110mm DIA. LAID AT FALLS 1:40, UNLESS OTHERWISE NOTED.
 - ALL OTHER BRANCH CONNECTIONS TO BE MADE USING OBLIQUE 45 DEGREE CONNECTION IN THE DIRECTION OF FLOW OF THE MAIN LINE WHERE POSSIBLE. FOR SURFACE WATER DRAINAGE AND INTERNAL FOUL CONNECTIONS WITHOUT A TOILET/SVP WHERE OBLIQUE CONNECTIONS ARE NOT POSSIBLE 87.5° CURVED SQUARE BRANCH CONNECTIONS TO BE USED IN DIRECTION OF FLOW OF MAIN LINE.
 - ALL RAINWATER DOWNPIPES THAT DO NOT CONNECT DIRECTLY TO AN ACCESS POINT SHALL HAVE A RODDING FACILITY FITTED.
 - ALL EXTERNAL FOUL AND SURFACE WATER INSPECTION CHAMBERS SITUATED IN AREAS WITHOUT VEHICULAR ACCESS TO BE MIN. 450/600mm DIA WITH 150mm DOT TYPE 1 SURROUND UNLESS NOTED OTHERWISE.
 - ALL EXTERNAL FOUL AND SURFACE WATER MANHOLES TO BE 1200mm DIA. WIDE WALL (125mm THICK) PRECAST CONCRETE UNITS UNLESS NOTED OTHERWISE.
 - MANHOLE COVER LEVELS ARE SUBJECT TO CONFIRMATION OF FINAL EXTERNAL & INTERNAL LEVELS.
 - ADDITIONAL PERIMETER GULLIES MAY BE REQUIRED SUBJECT TO CONFIRMATION OF FINAL EXTERNAL LEVELS.
 - THE LOAD CLASS OF ALL COVERS, GRATINGS, GULLIES, CHANNELS & FRAMES TO CHAMBERS TO SUIT THEIR LOCATION AS FOLLOWS:
A15 - INTERNAL LOCATIONS
B125 - EXTERNAL WITH PEDESTRIAN ACCESS ONLY
C250 - EXTERNAL LIGHTLY TRAFFICKED AREAS
D400 - MAIN ROADS/HIGHWAYS
 - GRATINGS IN PEDESTRIAN AREAS TO HAVE HEEL SAFE ANTI-SLIP COVERS.
 - ALL PRIVATE DRAINAGE WORKS SHALL BE IN ACCORDANCE WITH "THE BUILDING REGULATIONS APPROVED DOCUMENT H" AND BRITISH STANDARD BS EN 752.
 - ALL NEW DRAINAGE TO BE TESTED PRIOR TO BACKFILL OF THE TRENCHES & PRIOR TO HANDOVER TO THE SATISFACTION OF THE BUILDING CONTROL INSPECTOR.
 - TRENCH BACKFILL SHALL BE COMPACTED IN LAYERS NOT EXCEEDING 250mm ONCE 300mm COVER HAS BEEN PROVIDED TO THE TOP OF PIPE.

P04	2025/11/11	ADDED EXISTING FOUL WATER OUTFALL FROM THE SITE	PS	JH
P03	2025/10/20	ISSUED FOR PLANNING	PS	HP
P02	2025/10/13	ISSUED FOR REVIEW/COMMENT	PS	HP
P01	2022/11/25	ISSUED FOR INFORMATION [PRE-PLANNING]	PS	HP
Rev	Date	Comment	By	Check

Status Code	Drawing Status
S2	PRELIMINARY
This drawing may only be used for construction/manufacture if status is CONSTRUCTION	



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Project

GRAVESHAM LEISURE CENTRE, GRAVESEND

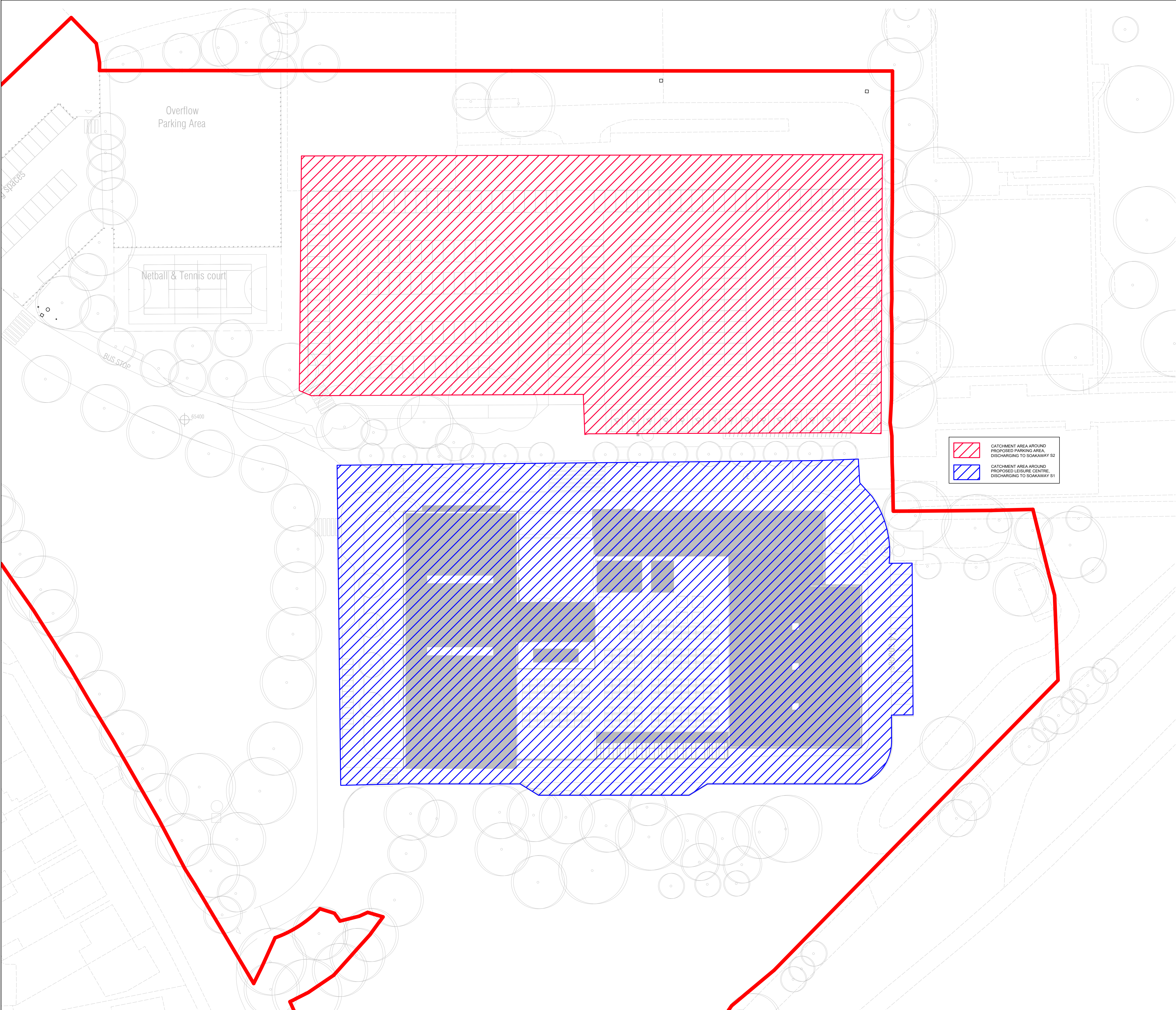
Drawing Title

PROPOSED BELOW GROUND DRAINAGE LAYOUT

FP Job No.	Drawn	Date	Checked	Scale @ A1
7313	PS	NOV '22	HP	1:500

PROJECT	OPERATOR	ZONE / VOLUME	LEVEL / LOCATION	FILE TYPE	ROLE	SHEET No.	Rev.
/	FUR	ZZ	BG	D	C	0910	P04

APPENDIX J – InfoDrainage Model Soakaway Sizing Estimate



P02	20/10/25	ISSUED FOR PLANNING				PS	HP
P01	25/11/22	ISSUED FOR INFORMATION [PRE-PLANNING]				PS	HP
Rev	Date	Comment				By	Check

Status Code	Drawing Status
S2	PRELIMINARY

This drawing may only be used for construction/manufacture if status is CONSTRUCTION



FURNESS
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Project

GRAVESHAM LEISURE CENTRE, GRAVESEND

Drawing Title

DRAINAGE STRATEGY - CATCHMENT AREA PLAN

FP Job No.	Drawn	Date	Checked	Scale @ A1
7313	PS	NOV '22	HP	1:400

PROJECT	OPERATOR	ZONE / VOLUME	LEVEL / LOCATION	FILE TYPE	ROLE	SHEET No.	Rev.
/	FUR	ZZ	ZZ	DR	D	0921	P02

Prepared by: Pranita Shrestha	Signed: Pranita Shrestha	Date: 20.10.2025
Reviewed by: Heeta Patel	Signed: Heeta Patel	Date: 20.10.2025

Project:	Date: 20/08/2025		
	Designed by: p.shrestha	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address:		





PP15

Type : Porous Paving

Dimensions

Exceedance Level (m)	65.400
Depth (m)	0.460
Base Level (m)	64.940
Paving Layer Depth (mm)	130
Membrane Percolation (m/hr)	3.0
Porosity (%)	30
Length (m)	33.894
Long. Slope (1:X)	500.00
Width (m)	4.802
Total Volume (m³)	17.056

Under Drain

Height Above Base (m)	0.000
Diameter (mm)	225
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Manning's n
n	0.015

Inlets

Inlet

Inlet Type	Lateral Inflow
Incoming Item(s)	CA11
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	P01.000
Outlet Type	Under Drain

Advanced

Conductivity (m/hr)	50.0
---------------------	------

Project:	Date: 20/08/2025		
	Designed by: p.shrestha	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address:		





PP1

Type : Porous Paving

Dimensions

Exceedance Level (m)	65.000
Depth (m)	0.430
Base Level (m)	64.570
Paving Layer Depth (mm)	130
Membrane Percolation (m/hr)	3.0
Porosity (%)	30
Length (m)	33.952
Long. Slope (1:X)	500.00
Width (m)	4.637
Total Volume (m³)	14.588

Under Drain

Height Above Base (m)	0.020
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.075
Friction Scheme	Manning's n
n	0.015

Inlets

Inlet

Inlet Type	Lateral Inflow
Incoming Item(s)	CP5
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	1.000
Outlet Type	Under Drain

Advanced

Conductivity (m/hr)	50.0
---------------------	------

Project:	Date: 20/08/2025		
	Designed by: p.shrestha	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address:		





PP2

Type : Porous Paving

Dimensions

Exceedance Level (m)	65.000
Depth (m)	0.430
Base Level (m)	64.570
Paving Layer Depth (mm)	130
Membrane Percolation (m/hr)	3.0
Porosity (%)	30
Length (m)	50.628
Long. Slope (1:X)	500.00
Width (m)	4.804
Total Volume (m³)	22.518

Under Drain

Height Above Base (m)	0.020
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.075
Friction Scheme	Manning's n
n	0.015

Inlets

Inlet

Inlet Type	Lateral Inflow
Incoming Item(s)	CP6
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	2.000
Outlet Type	Under Drain

Advanced

Conductivity (m/hr)	50.0
---------------------	------

Project:	Date: 20/08/2025		
	Designed by: p.shrestha	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address:		





PP3

Type : Porous Paving

Dimensions

Exceedance Level (m)	65.000
Depth (m)	0.430
Base Level (m)	64.570
Paving Layer Depth (mm)	130
Membrane Percolation (m/hr)	3.0
Porosity (%)	30
Length (m)	24.475
Long. Slope (1:X)	500.00
Width (m)	4.604
Total Volume (m³)	10.445

Under Drain

Height Above Base (m)	0.020
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.075
Friction Scheme	Manning's n
n	0.015

Inlets

Inlet

Inlet Type	Lateral Inflow
Incoming Item(s)	CP7
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	3.000
Outlet Type	Under Drain

Advanced

Conductivity (m/hr)	50.0
---------------------	------

Project:	Date: 20/08/2025		
	Designed by: p.shrestha	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address:		





PP4

Type : Porous Paving

Dimensions

Exceedance Level (m)	65.000
Depth (m)	0.430
Base Level (m)	64.570
Paving Layer Depth (mm)	130
Membrane Percolation (m/hr)	3.0
Porosity (%)	30
Length (m)	31.569
Long. Slope (1:X)	500.00
Width (m)	4.744
Total Volume (m³)	13.869

Under Drain

Height Above Base (m)	0.020
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.075
Friction Scheme	Manning's n
n	0.015

Inlets

Inlet (1)

Inlet Type	Point Inflow
Incoming Item(s)	CP8
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe (7)
Outlet Type	Under Drain

Advanced

Conductivity (m/hr)	50.0
---------------------	------

Project:	Date: 20/08/2025		
	Designed by: p.shrestha	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address:		





PP5

Type : Porous Paving

Dimensions

Exceedance Level (m)	65.000
Depth (m)	0.430
Base Level (m)	64.570
Paving Layer Depth (mm)	130
Membrane Percolation (m/hr)	3.0
Porosity (%)	30
Length (m)	32.888
Long. Slope (1:X)	500.00
Width (m)	4.967
Total Volume (m³)	15.108

Under Drain

Height Above Base (m)	0.020
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.075
Friction Scheme	Manning's n
n	0.015

Inlets

Inlet (1)

Inlet Type	Point Inflow
Incoming Item(s)	CP9
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe (6)
Outlet Type	Under Drain

Advanced

Conductivity (m/hr)	50.0
---------------------	------

Project:	Date: 20/08/2025		
	Designed by: p.shrestha	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address:		





PP6

Type : Porous Paving

Dimensions	
Exceedance Level (m)	65.000
Depth (m)	0.430
Base Level (m)	64.570
Paving Layer Depth (mm)	130
Membrane Percolation (m/hr)	3.0
Porosity (%)	30
Length (m)	19.791
Long. Slope (1:X)	400.00
Width (m)	4.654
Total Volume (m³)	8.534

Under Drain	
Height Above Base (m)	0.020
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.075
Friction Scheme	Manning's n
n	0.015

Inlets	
Inlet	
Inlet Type	Lateral Inflow
Incoming Item(s)	CP11
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets	
Outlet	
Outgoing Connection	4.000
Outlet Type	Under Drain

Advanced	
Conductivity (m/hr)	50.0

Project:	Date: 20/08/2025		
	Designed by: p.shrestha	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address:		





PP7

Type : Porous Paving

Dimensions

Exceedance Level (m)	65.000
Depth (m)	0.430
Base Level (m)	64.570
Paving Layer Depth (mm)	130
Membrane Percolation (m/hr)	3.0
Porosity (%)	30
Length (m)	24.476
Long. Slope (1:X)	400.00
Width (m)	4.706
Total Volume (m³)	10.670

Under Drain

Height Above Base (m)	0.020
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.075
Friction Scheme	Manning's n
n	0.015

Inlets

Inlet

Inlet Type	Lateral Inflow
Incoming Item(s)	CP12
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe (1)
Outlet Type	Under Drain

Advanced

Conductivity (m/hr)	50.0
---------------------	------

Project:	Date: 20/08/2025		
	Designed by: p.shrestha	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address:		





PP8

Type : Porous Paving

Dimensions

Exceedance Level (m)	65.000
Depth (m)	0.430
Base Level (m)	64.570
Paving Layer Depth (mm)	130
Membrane Percolation (m/hr)	3.0
Porosity (%)	30
Length (m)	26.842
Long. Slope (1:X)	400.00
Width (m)	4.722
Total Volume (m³)	11.739

Under Drain

Height Above Base (m)	0.020
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.075
Friction Scheme	Manning's n
n	0.015

Inlets

Inlet (1)

Inlet Type	Point Inflow
Incoming Item(s)	CP13
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe (2)
Outlet Type	Under Drain

Advanced

Conductivity (m/hr)	50.0
---------------------	------

Project:	Date: 20/08/2025		
	Designed by: p.shrestha	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address:		





PP9

Type : Porous Paving

Dimensions

Exceedance Level (m)	65.000
Depth (m)	0.430
Base Level (m)	64.570
Paving Layer Depth (mm)	130
Membrane Percolation (m/hr)	3.0
Porosity (%)	30
Length (m)	26.842
Long. Slope (1:X)	500.00
Width (m)	4.722
Total Volume (m³)	11.741

Under Drain

Height Above Base (m)	0.020
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.075
Friction Scheme	Manning's n
n	0.015

Inlets

Inlet

Inlet Type	Lateral Inflow
Incoming Item(s)	CP14
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	10.000
Outlet Type	Under Drain

Advanced

Conductivity (m/hr)	50.0
---------------------	------

Project:	Date: 20/08/2025		
	Designed by: p.shrestha	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address:		





PP10

Type : Porous Paving

Dimensions

Exceedance Level (m)	65.000
Depth (m)	0.430
Base Level (m)	64.570
Paving Layer Depth (mm)	130
Membrane Percolation (m/hr)	3.0
Porosity (%)	30
Length (m)	26.842
Long. Slope (1:X)	500.00
Width (m)	4.565
Total Volume (m³)	11.360

Under Drain

Height Above Base (m)	0.020
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.075
Friction Scheme	Manning's n
n	0.015

Inlets

Inlet (1)

Inlet Type	Point Inflow
Incoming Item(s)	CA22
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	11.000
Outlet Type	Under Drain

Advanced

Conductivity (m/hr)	50.0
---------------------	------

Project:	Date: 20/08/2025		
	Designed by: p.shrestha	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address:		



PP11

Type : Porous Paving

Dimensions	
Exceedance Level (m)	65.000
Depth (m)	0.430
Base Level (m)	64.570
Paving Layer Depth (mm)	130
Membrane Percolation (m/hr)	3.0
Porosity (%)	30
Length (m)	26.833
Long. Slope (1:X)	250.00
Width (m)	4.720
Total Volume (m³)	11.732

Under Drain	
Height Above Base (m)	0.020
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.075
Friction Scheme	Manning's n
n	0.015

Inlets	
Inlet	
Inlet Type	Point Inflow
Incoming Item(s)	CP17
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets	
Outlet	
Outgoing Connection	13.000
Outlet Type	Under Drain

Advanced	
Conductivity (m/hr)	50.0

Project:	Date: 20/08/2025		
	Designed by: p.shrestha	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address:		





PP12

Type : Porous Paving

Dimensions

Exceedance Level (m)	65.000
Depth (m)	0.430
Base Level (m)	64.570
Paving Layer Depth (mm)	130
Membrane Percolation (m/hr)	3.0
Porosity (%)	30
Length (m)	17.472
Long. Slope (1:X)	500.00
Width (m)	4.612
Total Volume (m³)	7.469

Under Drain

Height Above Base (m)	0.020
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.075
Friction Scheme	Manning's n
n	0.015

Inlets

Inlet

Inlet Type	Lateral Inflow
Incoming Item(s)	CP19
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	16.000
Outlet Type	Under Drain

Advanced

Conductivity (m/hr)	50.0
---------------------	------

Project:	Date: 20/08/2025		
	Designed by: p.shrestha	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address:		





PP13

Type : Porous Paving

Dimensions

Exceedance Level (m)	65.000
Depth (m)	0.430
Base Level (m)	64.570
Paving Layer Depth (mm)	130
Membrane Percolation (m/hr)	3.0
Porosity (%)	30
Length (m)	41.081
Long. Slope (1:X)	250.00
Width (m)	4.766
Total Volume (m³)	18.121

Under Drain

Height Above Base (m)	0.020
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.075
Friction Scheme	Manning's n
n	0.015

Inlets

Inlet (1)

Inlet Type	Point Inflow
Incoming Item(s)	CP20
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	15.000
Outlet Type	Under Drain

Advanced

Conductivity (m/hr)	50.0
---------------------	------

Project:	Date: 20/08/2025		
	Designed by: p.shrestha	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address:		





PP5 (1)

Type : Porous Paving

Dimensions

Exceedance Level (m)	65.000
Depth (m)	0.430
Base Level (m)	64.570
Paving Layer Depth (mm)	130
Membrane Percolation (m/hr)	3.0
Porosity (%)	30
Length (m)	26.877
Long. Slope (1:X)	500.00
Width (m)	5.062
Total Volume (m³)	12.578

Under Drain

Height Above Base (m)	0.020
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.075
Friction Scheme	Manning's n
n	0.015

Inlets

Inlet (1)

Inlet Type	Point Inflow
Incoming Item(s)	CP10
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	7.000
Outlet Type	Under Drain

Advanced

Conductivity (m/hr)	50.0
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Project:	Date: 20/08/2025		
	Designed by: p.shrestha	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address:		





PP10 (1)

Type : Porous Paving

Dimensions

Exceedance Level (m)	65.000
Depth (m)	0.430
Base Level (m)	64.570
Paving Layer Depth (mm)	130
Membrane Percolation (m/hr)	3.0
Porosity (%)	30
Length (m)	26.913
Long. Slope (1:X)	500.00
Width (m)	4.868
Total Volume (m³)	12.125

Under Drain

Height Above Base (m)	0.020
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.075
Friction Scheme	Manning's n
n	0.015

Inlets

Inlet (1)

Inlet Type	Point Inflow
Incoming Item(s)	CP16
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	14.000
Outlet Type	Under Drain

Advanced

Conductivity (m/hr)	50.0
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Project:	Date: 20/08/2025		
	Designed by: p.shrestha	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address:		





Type : Porous Paving

Dimensions	
Exceedance Level (m)	65.000
Depth (m)	0.430
Base Level (m)	64.570
Paving Layer Depth (mm)	130
Membrane Percolation (m/hr)	3.0
Porosity (%)	30
Length (m)	57.820
Long. Slope (1:X)	250.00
Width (m)	4.873
Total Volume (m³)	25.977

Under Drain	
Height Above Base (m)	0.020
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.075
Friction Scheme	Manning's n
n	0.015

Inlets	
Inlet (1)	
Inlet Type	Point Inflow
Incoming Item(s)	CP27
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets	
Outlet	
Outgoing Connection	Pipe
Outlet Type	Under Drain

Advanced	
Conductivity (m/hr)	50.0

Project:	Date: 20/08/2025		
	Designed by: p.shrestha	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address:		



SOAKAWAY 1

Type : Cellular Storage

Dimensions

Exceedance Level (m)	67.000
Depth (m)	0.800
Base Level (m)	62.960
Number of Crates Long	40
Number of Crates Wide	30
Number of Crates High	2
Porosity (%)	95
Crate Length (m)	1
Crate Width (m)	0.5
Crate Height (m)	0.4
Total Volume (m³)	459.240

Inlets

Inlet (1)

Inlet Type	Point Inflow
Incoming Item(s)	P01.005
Bypass Destination	(None)
Capacity Type	No Restriction

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	R1.004
Bypass Destination	(None)
Capacity Type	No Restriction

Advanced

Base Infiltration Rate (m/hr)	0.0432
Side Infiltration Rate (m/hr)	0.0432
Safety Factor	2.0

Project:	Date: 20/08/2025		
	Designed by: p.shrestha	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address:		



SOAKAWAY 2

Type : Cellular Storage

Dimensions

Exceedance Level (m)	65.000
Depth (m)	0.800
Base Level (m)	63.200
Number of Crates Long	30
Number of Crates Wide	30
Number of Crates High	2
Porosity (%)	95
Crate Length (m)	1
Crate Width (m)	0.5
Crate Height (m)	0.4
Total Volume (m³)	343.000

Inlets

Inlet (4)

Inlet Type	Point Inflow
Incoming Item(s)	1.006
Bypass Destination	(None)
Capacity Type	No Restriction

Inlet (1)

Inlet Type	Point Inflow
Incoming Item(s)	Pipe (5)
Bypass Destination	(None)
Capacity Type	No Restriction

Advanced

Base Infiltration Rate (m/hr)	0.0432
Side Infiltration Rate (m/hr)	0.0432
Safety Factor	2.0

Project:	Date: 20/08/2025		
	Designed by: p.shrestha	Checked by:	Approved By:
Report Details: Type: Inflow Summary Storm Phase: Phase		Company Address:	



Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
CA1	S06		Time of Concentration	0.082	100	0	100	0.082
CA2	S13		Time of Concentration	0.083	100	0	100	0.083
CA3	S12		Time of Concentration	0.073	100	0	100	0.073
CA4	S11		Time of Concentration	0.091	100	0	100	0.091
CA5	S08		Time of Concentration	0.092	100	0	100	0.092
CA6	S07		Time of Concentration	0.110	100	0	100	0.110
CA11	PP15		Time of Concentration	0.045	100	0	100	0.045
CA12	S01		Time of Concentration	0.026	100	0	100	0.026
CA13	S02		Time of Concentration	0.094	100	0	100	0.094
CA22	PP10		Time of Concentration	0.025	100	0	100	0.025
CA23	S04		Time of Concentration	0.021	100	0	100	0.021
CA24	S03		Time of Concentration	0.027	100	0	100	0.027
CA25	S01		Time of Concentration	0.023	100	0	100	0.023
CA26	S04		Time of Concentration	0.071	100	0	100	0.071
CP5	PP1		Time of Concentration	0.039	100	0	100	0.039
CP6	PP2		Time of Concentration	0.040	100	0	100	0.040
CP7	PP3		Time of Concentration	0.030	100	0	100	0.030
CP8	PP4		Time of Concentration	0.034	100	0	100	0.034
CP9	PP5		Time of Concentration	0.036	100	0	100	0.036
CP10	PP5 (1)		Time of Concentration	0.042	100	0	100	0.042
CP11	PP6		Time of Concentration	0.041	100	0	100	0.041
CP12	PP7		Time of Concentration	0.036	100	0	100	0.036
CP13	PP8		Time of Concentration	0.033	100	0	100	0.033
CP14	PP9		Time of Concentration	0.027	100	0	100	0.027
CP16	PP10 (1)		Time of Concentration	0.024	100	0	100	0.024
CP17	PP11		Time of Concentration	0.036	100	0	100	0.036
CP18	s25		Time of Concentration	0.046	100	0	100	0.046
CP19	PP12		Time of Concentration	0.026	100	0	100	0.026
CP20	PP13		Time of Concentration	0.036	100	0	100	0.036
CP21	s22		Time of Concentration	0.032	100	0	100	0.032
CP27	PP2 (1)		Time of Concentration	0.029	100	0	100	0.029
TOTAL		0.0		1.451				1.451

Project:	Date: 20/08/2025		
	Designed by: p.shrestha	Checked by:	Approved By:
Report Details: Type: Network Design Criteria Storm Phase: Phase	Company Address:		



Flow Options

Peak Flow Calculation	(UK) Modified Rational Method
Min. Time of Entry (mins)	5
Max. Travel Time (mins)	30

MY FSR

Type: FSR

Return Period (years)	1.0
Region	England And Wales
M5-60 (mm)	21.0
Ratio R	0.440

Pipe Options

Lock Slope Options	None
Design Options	Minimise Excavation
Design Level	Level Soffits
Min. Cover Depth (m)	0.100
Min. Slope (1:X)	500.00
Max. Slope (1:X)	40.00
Min. Velocity (m/s)	0.75
Max. Velocity (m/s)	3.0
Use Flow Restriction	☐
Reduce Channel Depths	☐

Pipe Size Library

Default

Add. Increment (mm)	75
Max. Diameter (mm)	0

Diameter (mm)	Min. Slope (1:X)	Max. Slope (1:X)
100	0.00	0.00
150	0.00	0.00

Project:	Date: 20/08/2025			
	Designed by: p.shrestha	Checked by:	Approved By:	
Report Title: Rainfall Analysis Criteria	Company Address:			

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
Perform No Discharge Analysis	☐

Rainfall		
MY FSR	Type: FSR	
Region	England And Wales	
M5-60 (mm)	21.0	
Ratio R	0.440	
Summer	☒	
Winter	☒	

Return Period

Return Period (years)	Increase Rainfall (%)
1.0	0.000
10.0	0.000
30.0	0.000
100.0	0.000
100.0	20.000

Storm Durations

Duration (mins)	Run Time (mins)
15	30
30	60
60	120
120	240
180	360
240	480
360	720
480	960
600	1200
720	1440
960	1920
1440	2880

Project:	Date: 20/08/2025		
	Designed by: p.shrestha	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Company Address:		





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

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
S01	MY FSR: 1 years: +0 %: 15 mins: Summer	65.40 0	64.63 1	64.707	0.076	10.8	0.086	0.000	8.5	6.649	OK
S03	MY FSR: 1 years: +0 %: 15 mins: Summer	65.40 0	64.06 8	64.186	0.118	30.2	0.133	0.000	22.7	16.396	OK
S04	MY FSR: 1 years: +0 %: 15 mins: Summer	65.40 0	63.68 0	63.816	0.136	40.6	0.153	0.000	39.3	24.098	OK
S05	MY FSR: 1 years: +0 %: 15 mins: Summer	65.40 0	63.55 0	63.676	0.126	39.3	0.143	0.000	35.1	23.918	OK
S02	MY FSR: 1 years: +0 %: 15 mins: Summer	65.40 0	64.31 2	64.434	0.122	26.8	0.139	0.000	25.0	14.508	OK
S06	MY FSR: 1 years: +0 %: 15 mins: Summer	65.40 0	64.28 7	64.378	0.091	15.0	0.103	0.000	13.4	6.497	OK
S07	MY FSR: 1 years: +0 %: 15 mins: Summer	65.40 0	63.95 0	64.085	0.135	33.8	0.153	0.000	29.1	15.274	OK
S08	MY FSR: 1 years: +0 %: 15 mins: Summer	65.40 0	63.60 0	63.757	0.157	46.0	0.177	0.000	42.6	22.601	OK
S09	MY FSR: 1 years: +0 %: 15 mins: Summer	65.40 0	63.39 8	63.605	0.207	81.1	0.234	0.000	77.9	42.154	OK
S11	MY FSR: 1 years: +0 %: 15 mins: Summer	65.40 0	63.55 0	63.697	0.147	40.4	0.166	0.000	38.6	19.548	OK
S12	MY FSR: 1 years: +0 %: 15 mins: Summer	65.40 0	63.91 8	64.036	0.118	27.6	0.134	0.000	23.7	12.376	OK
S13	MY FSR: 1 years: +0 %: 15 mins: Summer	65.40 0	64.46 7	64.545	0.078	15.3	0.022	0.000	14.3	6.623	OK
S10	MY FSR: 1 years: +0 %: 15 mins: Summer	65.40 0	63.27 0	63.481	0.211	77.9	0.239	0.000	74.1	42.082	OK
s27	MY FSR: 1 years: +0 %: 180 mins: Summer	65.00 0	63.73 0	63.803	0.073	7.9	0.083	0.000	7.9	31.775	OK
s20	MY FSR: 1 years: +0 %: 180 mins: Summer	65.00 0	63.98 0	64.051	0.071	8.2	0.020	0.000	8.2	28.323	OK
s16	MY FSR: 1 years: +0 %: 240 mins: Summer	65.00 0	64.11 0	64.150	0.040	3.0	0.011	0.000	3.0	12.685	OK
s15	MY FSR: 1 years: +0 %: 180 mins: Summer	65.00 0	64.32 0	64.344	0.024	1.2	0.007	0.000	1.2	4.262	OK
s14	MY FSR: 1 years: +0 %: 180 mins: Summer	65.00 0	64.40 0	64.431	0.031	1.2	0.009	0.000	1.2	4.264	OK
s19	MY FSR: 1 years: +0 %: 180 mins: Summer	65.00 0	64.05 0	64.106	0.056	5.2	0.016	0.000	5.3	17.331	OK
s26	MY FSR: 1 years: +0 %: 15 mins: Summer	65.00 0	63.84 0	63.911	0.071	8.6	0.020	0.000	8.3	3.897	OK

Project:		Date: 20/08/2025				
		Designed by: p.shrestha	Checked by:	Approved By:		
Report Details: Type: Junctions Summary Storm Phase: Phase		Company Address:				

s29	MY FSR: 1 years: +0 %: 180 mins: Summer	65.00 0	63.83 0	63.876	0.046	4.0	0.013	0.000	4.0	15.157	OK
s28	MY FSR: 1 years: +0 %: 180 mins: Summer	65.00 0	64.07 0	64.104	0.034	1.9	0.005	0.000	1.9	6.386	OK
s30	MY FSR: 1 years: +0 %: 180 mins: Summer	65.00 0	64.15 0	64.189	0.039	2.1	0.006	0.000	2.1	6.895	OK
s31	MY FSR: 1 years: +0 %: 180 mins: Summer	65.00 0	64.02 0	64.060	0.040	2.1	0.011	0.000	2.2	8.778	OK
s17 (1)	MY FSR: 1 years: +0 %: 120 mins: Summer	65.00 0	64.26 0	64.291	0.031	1.7	0.005	0.000	1.7	4.072	OK
s18	MY FSR: 1 years: +0 %: 180 mins: Summer	65.00 0	64.20 0	64.232	0.032	2.6	0.005	0.000	2.6	8.370	OK
s24	MY FSR: 1 years: +0 %: 120 mins: Summer	65.00 0	63.91 0	63.938	0.028	1.3	0.004	0.000	1.3	3.020	OK
s25	MY FSR: 1 years: +0 %: 15 mins: Summer	65.00 0	64.03 0	64.102	0.072	9.0	0.020	0.000	8.6	3.898	OK
s21	MY FSR: 1 years: +0 %: 180 mins: Summer	65.00 0	63.91 0	63.988	0.078	9.5	0.022	0.000	9.5	32.576	OK
s22	MY FSR: 1 years: +0 %: 180 mins: Summer	65.00 0	63.79 0	63.864	0.074	10.4	0.084	0.000	10.4	38.390	OK
s23	MY FSR: 1 years: +0 %: 180 mins: Summer	65.00 0	63.75 0	63.822	0.072	10.4	0.081	0.000	10.4	38.376	OK

Project:	Date: 20/08/2025		
	Designed by: p.shrestha	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Company Address:		





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

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
S01	MY FSR: 30 years: +0 %: 15 mins: Summer	65.400	64.631	64.779	0.148	29.5	0.167	0.000	26.0	17.976	OK
S03	MY FSR: 30 years: +0 %: 15 mins: Summer	65.400	64.068	64.285	0.217	76.0	0.245	0.000	60.3	42.156	OK
S04	MY FSR: 30 years: +0 %: 15 mins: Summer	65.400	63.680	63.924	0.244	104.3	0.276	0.000	101.6	61.127	OK
S05	MY FSR: 30 years: +0 %: 15 mins: Summer	65.400	63.550	63.775	0.225	101.6	0.255	0.000	93.6	60.863	OK
S02	MY FSR: 30 years: +0 %: 15 mins: Summer	65.400	64.312	64.535	0.223	71.0	0.252	0.000	63.2	37.128	OK
S06	MY FSR: 30 years: +0 %: 15 mins: Summer	65.400	64.287	64.451	0.164	36.9	0.186	0.000	35.6	15.771	OK
S07	MY FSR: 30 years: +0 %: 15 mins: Summer	65.400	63.950	64.215	0.265	85.7	0.300	0.000	74.6	37.314	OK
S08	MY FSR: 30 years: +0 %: 15 mins: Summer	65.400	63.600	63.894	0.294	116.3	0.333	0.000	105.7	55.281	OK
S09	MY FSR: 30 years: +0 %: 15 mins: Summer	65.400	63.398	63.778	0.380	199.2	0.430	0.000	187.0	103.475	OK
S11	MY FSR: 30 years: +0 %: 15 mins: Summer	65.400	63.550	63.838	0.288	104.3	0.325	0.000	93.4	47.994	OK
S12	MY FSR: 30 years: +0 %: 15 mins: Summer	65.400	63.918	64.139	0.221	69.5	0.250	0.000	63.2	30.014	OK
S13	MY FSR: 30 years: +0 %: 15 mins: Summer	65.400	64.467	64.603	0.136	37.6	0.039	0.000	36.6	16.200	OK
S10	MY FSR: 30 years: +0 %: 15 mins: Summer	65.400	63.270	63.630	0.360	187.0	0.408	0.000	182.7	103.394	OK
s27	MY FSR: 30 years: +0 %: 60 mins: Summer	65.000	63.730	63.928	0.198	38.3	0.224	0.000	38.4	69.526	OK
s20	MY FSR: 30 years: +0 %: 60 mins: Summer	65.000	63.980	64.196	0.216	37.9	0.061	0.000	37.7	63.077	OK
s16	MY FSR: 30 years: +0 %: 60 mins: Summer	65.000	64.110	64.216	0.106	14.5	0.030	0.000	14.0	25.266	OK
s15	MY FSR: 30 years: +0 %: 60 mins: Summer	65.000	64.320	64.369	0.049	5.5	0.014	0.000	5.5	9.426	OK
s14	MY FSR: 30 years: +0 %: 60 mins: Summer	65.000	64.400	64.466	0.066	5.5	0.019	0.000	5.5	9.438	OK
s19	MY FSR: 30 years: +0 %: 60 mins: Summer	65.000	64.050	64.223	0.173	24.1	0.049	0.000	23.9	37.848	OK
s26	MY FSR: 30 years: +0 %: 15 mins: Summer	65.000	63.840	63.961	0.121	21.2	0.034	0.000	20.6	13.201	OK

Project:		Date: 20/08/2025		
		Designed by: p.shrestha	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase		Company Address:		



s29	MY FSR: 30 years: +0 %: 60 mins: Summer	65.00 0	63.83 0	63.952	0.122	19.4	0.035	0.000	19.3	35.022	OK
s28	MY FSR: 30 years: +0 %: 60 mins: Summer	65.00 0	64.07 0	64.153	0.083	9.9	0.013	0.000	9.9	14.439	OK
s30	MY FSR: 30 years: +0 %: 60 mins: Summer	65.00 0	64.15 0	64.244	0.094	9.8	0.015	0.000	9.7	15.215	OK
s31	MY FSR: 30 years: +0 %: 120 mins: Summer	65.00 0	64.02 0	64.116	0.096	9.9	0.027	0.000	9.9	26.804	OK
s17 (1)	MY FSR: 30 years: +0 %: 60 mins: Summer	65.00 0	64.26 0	64.323	0.063	6.8	0.010	0.000	6.7	10.576	OK
s18	MY FSR: 30 years: +0 %: 60 mins: Summer	65.00 0	64.20 0	64.265	0.065	11.6	0.010	0.000	11.5	18.727	OK
s24	MY FSR: 30 years: +0 %: 30 mins: Summer	65.00 0	63.91 0	63.968	0.058	5.5	0.009	0.000	5.5	5.779	OK
s25	MY FSR: 30 years: +0 %: 15 mins: Summer	65.00 0	64.03 0	64.152	0.122	22.1	0.034	0.000	21.2	9.588	OK
s21	MY FSR: 30 years: +0 %: 60 mins: Summer	65.00 0	63.91 0	64.127	0.217	43.7	0.061	0.000	43.6	72.154	OK
s22	MY FSR: 30 years: +0 %: 60 mins: Summer	65.00 0	63.79 0	63.971	0.181	47.3	0.205	0.000	47.3	82.370	OK
s23	MY FSR: 30 years: +0 %: 60 mins: Summer	65.00 0	63.75 0	63.918	0.168	47.3	0.190	0.000	47.4	82.296	OK

Project:	Date: 20/08/2025		
	Designed by: p.shrestha	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Company Address:		





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

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
S01	MY FSR: 100 years: +0 %: 15 mins: Summer	65.400	64.631	64.815	0.184	40.0	0.208	0.000	35.4	23.850	OK
S03	MY FSR: 100 years: +0 %: 15 mins: Summer	65.400	64.068	64.354	0.286	98.6	0.323	0.000	79.1	55.839	OK
S04	MY FSR: 100 years: +0 %: 15 mins: Summer	65.400	63.680	63.974	0.294	136.3	0.333	0.000	129.9	80.397	OK
S05	MY FSR: 100 years: +0 %: 15 mins: Summer	65.400	63.550	63.821	0.271	129.9	0.306	0.000	121.7	80.102	OK
S02	MY FSR: 100 years: +0 %: 15 mins: Summer	65.400	64.312	64.614	0.302	94.0	0.342	0.000	81.9	48.612	Surcharged
S06	MY FSR: 100 years: +0 %: 15 mins: Summer	65.400	64.287	64.773	0.486	48.1	0.549	0.000	35.9	20.590	Surcharged
S07	MY FSR: 100 years: +0 %: 15 mins: Summer	65.400	63.950	64.538	0.588	101.0	0.665	0.000	89.0	48.416	Surcharged
S08	MY FSR: 100 years: +0 %: 15 mins: Summer	65.400	63.600	64.109	0.509	143.3	0.576	0.000	132.7	72.130	Surcharged
S09	MY FSR: 100 years: +0 %: 15 mins: Summer	65.400	63.398	63.936	0.538	247.6	0.609	0.000	243.5	134.958	Surcharged
S11	MY FSR: 100 years: +0 %: 15 mins: Summer	65.400	63.550	64.008	0.458	122.2	0.518	0.000	114.9	62.608	Surcharged
S12	MY FSR: 100 years: +0 %: 15 mins: Summer	65.400	63.918	64.234	0.316	92.2	0.358	0.000	68.7	39.063	Surcharged
S13	MY FSR: 100 years: +0 %: 15 mins: Summer	65.400	64.467	64.631	0.164	48.9	0.046	0.000	49.4	20.983	OK
S10	MY FSR: 100 years: +0 %: 15 mins: Summer	65.400	63.270	63.699	0.429	243.5	0.485	0.000	237.4	134.687	OK
s27	MY FSR: 100 years: +0 %: 60 mins: Summer	65.000	63.730	64.009	0.279	52.9	0.315	0.000	53.1	98.292	Surcharged
s20	MY FSR: 100 years: +0 %: 60 mins: Summer	65.000	63.980	64.356	0.376	51.5	0.106	0.000	51.4	89.664	Surcharged
s16	MY FSR: 100 years: +0 %: 60 mins: Summer	65.000	64.110	64.390	0.280	20.1	0.079	0.000	19.9	36.323	Surcharged
s15	MY FSR: 100 years: +0 %: 60 mins: Summer	65.000	64.320	64.399	0.079	7.7	0.022	0.000	7.3	13.387	OK
s14	MY FSR: 100 years: +0 %: 60 mins: Summer	65.000	64.400	64.482	0.082	7.7	0.023	0.000	7.7	13.400	OK
s19	MY FSR: 100 years: +0 %: 60 mins: Summer	65.000	64.050	64.413	0.363	31.8	0.103	0.000	31.6	53.380	Surcharged
s26	MY FSR: 100 years: +0 %: 60 mins: Summer	65.000	63.840	64.034	0.194	25.1	0.055	0.000	24.0	36.488	OK

Project:		Date: 20/08/2025		
		Designed by: p.shrestha	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase		Company Address:		



s29	MY FSR: 100 years: +0 %: 60 mins: Summer	65.00 0	63.83 0	64.057	0.227	26.7	0.064	0.000	27.6	50.408	Surcharged
s28	MY FSR: 100 years: +0 %: 30 mins: Summer	65.00 0	64.07 0	64.173	0.103	13.7	0.016	0.000	13.7	15.045	OK
s30	MY FSR: 100 years: +0 %: 60 mins: Summer	65.00 0	64.15 0	64.270	0.120	13.0	0.019	0.000	13.0	21.515	OK
s31	MY FSR: 100 years: +0 %: 60 mins: Summer	65.00 0	64.02 0	64.171	0.151	15.2	0.043	0.000	15.0	29.956	Surcharged
s17 (1)	MY FSR: 100 years: +0 %: 60 mins: Summer	65.00 0	64.26 0	64.430	0.170	9.0	0.027	0.000	9.1	14.845	OK
s18	MY FSR: 100 years: +0 %: 60 mins: Summer	65.00 0	64.20 0	64.426	0.226	15.7	0.036	0.000	16.5	26.608	Surcharged
s24	MY FSR: 100 years: +0 %: 60 mins: Summer	65.00 0	63.91 0	64.030	0.120	7.5	0.019	0.000	7.5	11.478	OK
s25	MY FSR: 100 years: +0 %: 15 mins: Summer	65.00 0	64.03 0	64.175	0.145	28.8	0.041	0.000	27.7	12.447	OK
s21	MY FSR: 100 years: +0 %: 60 mins: Summer	65.00 0	63.91 0	64.222	0.312	59.6	0.088	0.000	59.5	102.345	Surcharged
s22	MY FSR: 100 years: +0 %: 60 mins: Summer	65.00 0	63.79 0	64.017	0.227	64.3	0.257	0.000	64.4	115.793	OK
s23	MY FSR: 100 years: +0 %: 60 mins: Summer	65.00 0	63.75 0	63.957	0.207	64.4	0.234	0.000	64.5	115.700	OK

Project:	Date: 20/08/2025		
	Designed by: p.shrestha	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Company Address:		



MY FSR: 100 years: Increase Rainfall (%): +20: Critical Storm Per Item: Rank By: Max. Resident Volume

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
S01	MY FSR: 100 years: +20 %: 480 mins: Winter	65.400	64.631	65.271	0.640	6.5	0.724	0.000	6.5	87.227	Surcharged
S03	MY FSR: 100 years: +20 %: 480 mins: Winter	65.400	64.068	65.276	1.208	15.0	1.366	0.000	15.0	175.877	Surcharged
S04	MY FSR: 100 years: +20 %: 480 mins: Winter	65.400	63.680	65.276	1.596	21.5	1.806	0.000	21.5	247.661	Surcharged
S05	MY FSR: 100 years: +20 %: 480 mins: Winter	65.400	63.550	65.277	1.727	21.5	1.953	0.000	21.4	244.353	Flood Risk
S02	MY FSR: 100 years: +20 %: 480 mins: Winter	65.400	64.312	65.272	0.960	13.1	1.086	0.000	13.1	157.839	Surcharged
S06	MY FSR: 100 years: +20 %: 15 mins: Summer	65.400	64.287	65.397	1.110	57.6	1.255	0.000	44.5	24.788	Flood Risk
S07	MY FSR: 100 years: +20 %: 480 mins: Winter	65.400	63.950	65.276	1.326	12.7	1.499	0.000	12.7	145.555	Flood Risk
S08	MY FSR: 100 years: +20 %: 600 mins: Winter	65.400	63.600	65.274	1.674	15.7	1.894	0.000	15.7	224.590	Flood Risk
S09	MY FSR: 100 years: +20 %: 480 mins: Winter	65.400	63.398	65.275	1.877	35.2	2.123	0.000	35.3	400.188	Flood Risk
S11	MY FSR: 100 years: +20 %: 600 mins: Winter	65.400	63.550	65.274	1.724	13.6	1.950	0.000	13.6	195.180	Flood Risk
S12	MY FSR: 100 years: +20 %: 480 mins: Winter	65.400	63.918	65.276	1.358	10.3	1.536	0.000	10.3	118.083	Flood Risk
S13	MY FSR: 100 years: +20 %: 480 mins: Winter	65.400	64.467	65.276	0.809	5.5	0.229	0.000	5.5	62.757	Flood Risk
S10	MY FSR: 100 years: +20 %: 480 mins: Winter	65.400	63.270	65.277	2.007	35.3	2.270	0.000	34.8	377.228	Flood Risk
s27	MY FSR: 100 years: +20 %: 60 mins: Summer	65.000	63.730	64.057	0.327	63.8	0.370	0.000	63.9	122.184	Surcharged
s20	MY FSR: 100 years: +20 %: 60 mins: Summer	65.000	63.980	64.485	0.505	62.2	0.143	0.000	62.1	111.858	Surcharged
s16	MY FSR: 100 years: +20 %: 60 mins: Summer	65.000	64.110	64.540	0.430	24.9	0.122	0.000	24.8	45.551	Surcharged
s15	MY FSR: 100 years: +20 %: 60 mins: Summer	65.000	64.320	64.548	0.228	9.2	0.065	0.000	9.3	16.703	Surcharged
s14	MY FSR: 100 years: +20 %: 60 mins: Summer	65.000	64.400	64.585	0.185	9.4	0.052	0.000	9.2	16.714	Surcharged
s19	MY FSR: 100 years: +20 %: 60 mins: Summer	65.000	64.050	64.566	0.516	37.6	0.146	0.000	37.5	66.349	Surcharged
s26	MY FSR: 100 years: +20 %: 60 mins: Summer	65.000	63.840	64.103	0.263	30.7	0.075	0.000	29.6	44.862	Surcharged

Project:		Date: 20/08/2025				
		Designed by: p.shrestha	Checked by:	Approved By:		
Report Details: Type: Junctions Summary Storm Phase: Phase		Company Address:				

s29	MY FSR: 100 years: +20 %: 60 mins: Summer	65.00 0	63.83 0	64.123	0.293	33.7	0.083	0.000	33.9	63.226	Surcharged
s28	MY FSR: 100 years: +20 %: 60 mins: Summer	65.00 0	64.07 0	64.274	0.204	16.1	0.032	0.000	16.1	25.610	Surcharged
s30	MY FSR: 100 years: +20 %: 60 mins: Summer	65.00 0	64.15 0	64.462	0.312	15.3	0.050	0.000	15.4	26.760	Surcharged
s31	MY FSR: 100 years: +20 %: 60 mins: Summer	65.00 0	64.02 0	64.342	0.322	18.9	0.091	0.000	19.0	37.720	Surcharged
s17 (1)	MY FSR: 100 years: +20 %: 60 mins: Summer	65.00 0	64.26 0	64.588	0.328	10.0	0.052	0.000	10.4	18.410	Surcharged
s18	MY FSR: 100 years: +20 %: 60 mins: Summer	65.00 0	64.20 0	64.584	0.384	18.4	0.061	0.000	19.0	33.200	Surcharged
s24	MY FSR: 100 years: +20 %: 60 mins: Summer	65.00 0	63.91 0	64.089	0.179	8.9	0.029	0.000	9.0	14.281	Surcharged
s25	MY FSR: 100 years: +20 %: 15 mins: Summer	65.00 0	64.03 0	64.196	0.166	34.5	0.047	0.000	33.1	14.866	OK
s21	MY FSR: 100 years: +20 %: 60 mins: Summer	65.00 0	63.91 0	64.288	0.378	72.0	0.107	0.000	72.0	127.553	Surcharged
s22	MY FSR: 100 years: +20 %: 60 mins: Summer	65.00 0	63.79 0	64.061	0.271	77.7	0.307	0.000	77.8	143.697	OK
s23	MY FSR: 100 years: +20 %: 1440 mins: Summer	65.00 0	63.75 0	64.025	0.275	14.3	0.311	0.000	14.3	298.481	OK

Project:	Date: 20/08/2025		
	Designed by: p.shrestha	Checked by:	Approved By:
Report Details:	Company Address:		
Type: Stormwater Controls Summary Storm Phase: Phase			





MY 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)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
SOAKAWAY 1	MY FSR: 1 years: +0 %: 240 mins: Winter	63.153	63.153	0.193	0.193	27.9	109.983	0.000	103.031	0.0	0.000	76.051	OK
SOAKAWAY 2	MY FSR: 1 years: +0 %: 720 mins: Summer	63.321	63.321	0.121	0.121	12.0	51.803	0.000	118.393	0.0	0.000	84.897	OK
PP15	MY FSR: 1 years: +0 %: 15 mins: Summer	65.045	64.997	0.037	0.057	8.8	2.540	0.000	0.000	3.4	2.724	85.107	OK
PP1	MY FSR: 1 years: +0 %: 180 mins: Summer	64.699	64.697	0.061	0.127	2.4	4.442	0.000	0.000	1.2	4.293	69.550	OK
PP2	MY FSR: 1 years: +0 %: 240 mins: Summer	64.716	64.690	0.045	0.120	2.1	5.543	0.000	0.000	0.9	4.234	75.382	OK
PP3	MY FSR: 1 years: +0 %: 180 mins: Summer	64.695	64.693	0.076	0.123	1.9	3.368	0.000	0.000	1.1	3.205	67.756	OK
PP4	MY FSR: 1 years: +0 %: 180 mins: Summer	64.714	64.692	0.080	0.122	2.1	4.259	0.000	0.000	1.0	3.347	69.292	OK
PP5	MY FSR: 1 years: +0 %: 180 mins: Summer	64.718	64.693	0.082	0.123	2.2	4.616	0.000	0.000	1.0	3.509	69.446	OK
PP6	MY FSR: 1 years: +0 %: 60 mins: Summer	64.719	64.716	0.100	0.146	4.5	3.397	0.000	0.000	2.6	3.570	60.196	OK
PP7	MY FSR: 1 years: +0 %: 120 mins: Summer	64.704	64.701	0.072	0.131	2.8	3.520	0.000	0.000	1.5	3.600	67.011	OK
PP8	MY FSR: 1 years: +0 %: 120 mins: Summer	64.722	64.697	0.084	0.127	2.6	3.745	0.000	0.000	1.3	3.048	68.095	OK
PP9	MY FSR: 1 years: +0 %: 240 mins: Summer	64.687	64.686	0.063	0.116	1.4	3.404	0.000	0.000	0.7	2.722	71.003	OK
PP10	MY FSR: 1 years: +0 %: 240 mins: Summer	64.691	64.686	0.067	0.116	1.3	3.319	0.000	0.000	0.7	2.565	70.784	OK
PP11	MY FSR: 1 years: +0 %: 60 mins: Summer	64.769	64.706	0.092	0.136	3.9	3.698	0.000	0.000	1.8	2.847	68.477	OK

Project:	Date: 20/08/2025		
	Designed by: p.shrestha	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Company Address:	



PP12	MY FSR: 1 years: +0 %: 120 mins: Summer	64.696	64.696	0.091	0.126	2.1	2.629	0.000	0.000	1.2	2.471	64.804	OK
PP13	MY FSR: 1 years: +0 %: 180 mins: Summer	64.807	64.698	0.072	0.128	2.2	4.653	0.000	0.000	1.3	3.965	74.321	OK
PP5 (1)	MY FSR: 1 years: +0 %: 120 mins: Summer	64.721	64.705	0.097	0.135	3.3	4.572	0.000	0.000	1.7	4.100	63.650	OK
PP10 (1)	MY FSR: 1 years: +0 %: 360 mins: Summer	64.685	64.682	0.062	0.112	0.9	3.391	0.000	0.000	0.5	2.653	72.030	OK
PP2 (1)	MY FSR: 1 years: +0 %: 480 mins: Summer	64.855	64.682	0.054	0.112	0.9	5.078	0.000	0.000	0.5	3.614	80.453	OK

Project:	Date: 20/08/2025		
	Designed by: p.shrestha	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	Company Address:		





MY 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)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
SOAKAWAY 1	MY FSR: 30 years: +0 %: 360 mins: Winter	63.505	63.505	0.545	0.545	45.8	310.557	0.000	163.408	0.0	0.000	32.376	OK
SOAKAWAY 2	MY FSR: 30 years: +0 %: 600 mins: Winter	63.675	63.675	0.475	0.475	22.6	203.204	0.000	182.148	0.0	0.000	40.757	OK
PP15	MY FSR: 30 years: +0 %: 30 mins: Summer	65.088	65.054	0.080	0.114	13.8	4.932	0.000	0.000	10.5	11.307	71.083	OK
PP1	MY FSR: 30 years: +0 %: 60 mins: Summer	64.767	64.750	0.129	0.180	10.2	7.427	0.000	0.000	5.5	9.484	49.090	OK
PP2	MY FSR: 30 years: +0 %: 60 mins: Summer	64.754	64.734	0.082	0.164	10.4	9.070	0.000	0.000	4.0	8.602	59.720	OK
PP3	MY FSR: 30 years: +0 %: 60 mins: Summer	64.754	64.744	0.135	0.174	7.9	5.278	0.000	0.000	4.9	7.343	49.469	OK
PP4	MY FSR: 30 years: +0 %: 60 mins: Summer	64.799	64.744	0.165	0.174	8.8	7.345	0.000	0.000	4.9	7.840	47.042	OK
PP5	MY FSR: 30 years: +0 %: 60 mins: Summer	64.806	64.743	0.171	0.173	9.3	8.047	0.000	0.000	4.8	8.198	46.738	OK
PP6	MY FSR: 30 years: +0 %: 30 mins: Summer	64.799	64.779	0.180	0.209	12.6	5.423	0.000	0.000	8.5	8.724	36.462	OK
PP7	MY FSR: 30 years: +0 %: 60 mins: Summer	64.770	64.755	0.139	0.185	9.2	5.682	0.000	0.000	6.0	9.141	46.746	OK
PP8	MY FSR: 30 years: +0 %: 60 mins: Summer	64.796	64.750	0.158	0.180	8.5	6.353	0.000	0.000	5.5	8.155	45.884	OK
PP9	MY FSR: 30 years: +0 %: 60 mins: Summer	64.737	64.731	0.114	0.161	6.9	5.260	0.000	0.000	3.8	5.910	55.195	OK
PP10	MY FSR: 30 years: +0 %: 60 mins: Summer	64.761	64.733	0.138	0.163	6.6	5.376	0.000	0.000	3.9	5.581	52.673	OK
PP11	MY FSR: 30 years: +0 %: 30 mins: Summer	64.846	64.763	0.169	0.193	11.0	6.371	0.000	0.000	6.8	7.170	45.692	OK

Project:	Date: 20/08/2025		
	Designed by: p.shrestha	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Company Address:	



PP12	MY FSR: 30 years: +0 %: 60 mins: Summer	64.752	64.746	0.147	0.176	6.8	3.927	0.000	0.000	5.1	6.630	47.421	OK
PP13	MY FSR: 30 years: +0 %: 60 mins: Summer	64.880	64.751	0.146	0.181	9.2	8.318	0.000	0.000	5.6	8.653	54.098	OK
PP5 (1)	MY FSR: 30 years: +0 %: 30 mins: Summer	64.849	64.763	0.225	0.193	12.8	8.120	0.000	0.000	6.8	7.625	35.441	OK
PP10 (1)	MY FSR: 30 years: +0 %: 60 mins: Summer	64.756	64.725	0.132	0.155	6.2	5.406	0.000	0.000	3.3	4.899	55.418	OK
PP2 (1)	MY FSR: 30 years: +0 %: 120 mins: Summer	64.907	64.722	0.106	0.152	5.3	8.564	0.000	0.000	3.0	7.657	67.033	OK

Project:	Date: 20/08/2025		
	Designed by: p.shrestha	Checked by:	Approved By:
Report Details:	Company Address:		
Type: Stormwater Controls Summary			
Storm Phase: Phase			





MY 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)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
SOAKAWAY 1	MY FSR: 100 years: +0 %: 480 mins: Winter	63.698	63.698	0.738	0.738	47.2	420.889	0.000	223.527	0.0	0.393	8.351	OK
SOAKAWAY 2	MY FSR: 100 years: +0 %: 600 mins: Winter	63.878	63.878	0.678	0.678	29.2	289.718	0.000	191.726	0.0	0.000	15.534	OK
PP15	MY FSR: 100 years: +0 %: 30 mins: Summer	65.109	65.078	0.102	0.138	18.1	6.054	0.000	0.000	14.1	15.002	64.503	OK
PP1	MY FSR: 100 years: +0 %: 60 mins: Summer	64.804	64.771	0.166	0.201	13.3	8.938	0.000	0.000	7.7	13.446	38.730	OK
PP2	MY FSR: 100 years: +0 %: 60 mins: Summer	64.782	64.754	0.111	0.184	13.7	11.092	0.000	0.000	5.9	12.597	50.740	OK
PP3	MY FSR: 100 years: +0 %: 60 mins: Summer	64.783	64.764	0.164	0.194	10.4	6.153	0.000	0.000	6.9	10.449	41.087	OK
PP4	MY FSR: 100 years: +0 %: 60 mins: Summer	64.851	64.762	0.218	0.192	11.5	9.038	0.000	0.000	6.7	11.276	34.833	OK
PP5	MY FSR: 100 years: +0 %: 60 mins: Summer	64.861	64.761	0.225	0.191	12.2	9.950	0.000	0.000	6.6	11.811	34.142	OK
PP6	MY FSR: 100 years: +0 %: 30 mins: Summer	64.846	64.808	0.226	0.238	16.6	6.515	0.000	0.000	12.0	12.102	23.661	OK
PP7	MY FSR: 100 years: +0 %: 60 mins: Summer	64.804	64.777	0.172	0.207	12.1	6.675	0.000	0.000	8.3	12.749	37.445	OK
PP8	MY FSR: 100 years: +0 %: 30 mins: Summer	64.868	64.771	0.231	0.201	13.2	7.826	0.000	0.000	7.6	8.457	33.332	OK
PP9	MY FSR: 100 years: +0 %: 60 mins: Summer	64.764	64.751	0.140	0.181	9.1	6.171	0.000	0.000	5.5	8.622	47.441	OK
PP10	MY FSR: 100 years: +0 %: 60 mins: Summer	64.794	64.750	0.170	0.180	8.7	6.424	0.000	0.000	5.5	8.173	43.454	OK
PP11	MY FSR: 100 years: +0 %: 15 mins: Summer	64.908	64.770	0.230	0.200	22.3	7.998	0.000	0.000	7.5	6.053	31.826	OK

Project:	Date: 20/08/2025		
	Designed by: p.shrestha	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Company Address:	



PP12	MY FSR: 100 years: +0 %: 30 mins: Summer	64.782	64.769	0.177	0.199	10.6	4.581	0.000	0.000	7.4	7.101	38.660	OK
PP13	MY FSR: 100 years: +0 %: 30 mins: Summer	64.953	64.765	0.219	0.195	14.2	10.244	0.000	0.000	7.0	8.780	43.468	OK
PP5 (1)	MY FSR: 100 years: +0 %: 30 mins: Summer	65.055	64.783	0.432	0.213	16.9	10.191	0.057	0.000	9.0	10.961	18.975	Flood
PP10 (1)	MY FSR: 100 years: +0 %: 60 mins: Summer	64.781	64.744	0.157	0.174	8.2	6.430	0.000	0.000	4.9	7.327	46.968	OK
PP2 (1)	MY FSR: 100 years: +0 %: 60 mins: Summer	64.953	64.746	0.152	0.176	10.0	10.461	0.000	0.000	5.1	8.438	59.730	OK

Project:	Date: 20/08/2025		
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Report Details:	Company Address:		
Type: Stormwater Controls Summary			
Storm Phase: Phase			





MY FSR: 100 years: Increase Rainfall (%): +20: 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)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
SOAKAWAY 1	MY FSR: 100 years: +20 %: 480 mins: Winter	65.278	65.278	2.318	2.318	56.2	457.639	0.000	238.720	0.0	4.090	0.349	OK
SOAKAWAY 2	MY FSR: 100 years: +20 %: 1440 mins: Summer	64.025	64.025	0.825	0.825	26.6	342.172	0.000	462.865	0.0	0.000	0.241	OK
PP15	MY FSR: 100 years: +20 %: 480 mins: Winter	65.274	65.456	0.267	0.516	3.3	16.411	1.805	0.000	3.8	41.872	3.781	Flood
PP1	MY FSR: 100 years: +20 %: 60 mins: Summer	64.836	64.787	0.198	0.217	16.0	10.182	0.000	0.000	9.4	16.762	30.201	OK
PP2	MY FSR: 100 years: +20 %: 60 mins: Summer	64.809	64.768	0.137	0.198	16.4	12.740	0.000	0.000	7.3	15.927	43.422	OK
PP3	MY FSR: 100 years: +20 %: 60 mins: Summer	64.807	64.779	0.188	0.209	12.5	6.849	0.000	0.000	8.6	13.035	34.424	OK
PP4	MY FSR: 100 years: +20 %: 30 mins: Summer	64.932	64.774	0.299	0.204	16.3	10.542	0.000	0.000	7.9	10.174	23.989	OK
PP5	MY FSR: 100 years: +20 %: 30 mins: Summer	65.069	64.773	0.433	0.203	17.2	11.604	0.112	0.000	7.9	10.493	23.194	Flood
PP6	MY FSR: 100 years: +20 %: 30 mins: Summer	64.886	64.831	0.266	0.261	19.9	7.434	0.000	0.000	14.2	14.951	12.889	OK
PP7	MY FSR: 100 years: +20 %: 30 mins: Summer	64.833	64.795	0.202	0.225	17.1	7.523	0.000	0.000	10.3	12.052	29.500	OK
PP8	MY FSR: 100 years: +20 %: 30 mins: Summer	64.924	64.785	0.287	0.215	15.9	9.111	0.000	0.000	9.2	10.681	22.384	OK
PP9	MY FSR: 100 years: +20 %: 60 mins: Summer	64.785	64.764	0.162	0.194	10.9	6.883	0.000	0.000	6.9	10.888	41.372	OK
PP10	MY FSR: 100 years: +20 %: 30 mins: Summer	64.846	64.765	0.222	0.195	12.2	7.329	0.000	0.000	7.0	7.523	35.488	OK
PP11	MY FSR: 100 years: +20 %: 15 mins: Summer	65.109	64.784	0.431	0.214	26.7	9.448	0.049	0.000	9.1	7.596	19.465	Flood

Project:	Date: 20/08/2025		
	Designed by: p.shrestha	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Company Address:	



PP12	MY FSR: 100 years: +20 %: 30 mins: Summer	64.808	64.787	0.204	0.217	12.7	5.137	0.000	0.000	9.4	8.921	31.217	OK
PP13	MY FSR: 100 years: +20 %: 30 mins: Summer	65.006	64.775	0.271	0.205	17.1	12.040	0.000	0.000	8.1	11.062	33.559	OK
PP5 (1)	MY FSR: 100 years: +20 %: 30 mins: Summer	65.085	64.793	0.461	0.223	20.2	12.080	1.057	0.000	10.2	13.757	3.954	Flood
PP10 (1)	MY FSR: 100 years: +20 %: 60 mins: Summer	64.812	64.756	0.188	0.186	9.8	7.316	0.000	0.000	6.1	9.357	39.662	OK
PP2 (1)	MY FSR: 100 years: +20 %: 60 mins: Summer	64.978	64.757	0.176	0.187	12.0	12.019	0.000	0.000	6.2	10.916	53.731	OK

Project:	Date: 20/08/2025		
	Designed by: p.shrestha	Checked by:	Approved By:
Report Details: Type: Connections Summary Storm Phase: Phase	Company Address:		





MY 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
P01.003	MY FSR: 1 years: +0 %: 30 mins: Summer	Pipe	S03	S04	65.400	64.184	0.113	22.544	0.9	0.3	23.0	OK
P01.004	MY FSR: 1 years: +0 %: 15 mins: Summer	Pipe	S04	S05	65.400	63.816	0.131	24.098	1.1	0.24	39.3	OK
P01.001	MY FSR: 1 years: +0 %: 30 mins: Summer	Pipe	S01	S02	65.400	64.707	0.075	9.571	0.7	0.24	8.7	OK
P01.002	MY FSR: 1 years: +0 %: 15 mins: Summer	Pipe	S02	S03	65.400	64.434	0.120	14.508	0.9	0.32	25.0	OK
P01.005	MY FSR: 1 years: +0 %: 15 mins: Summer	Pipe	S05	SOAKA WAY 1	65.400	63.676	0.122	23.918	1.1	0.22	35.1	OK
P01.000	MY FSR: 1 years: +0 %: 30 mins: Summer	Pipe	PP15	S01	65.468	64.992	0.056	4.306	0.5	0.06	3.6	OK
R2.000	MY FSR: 1 years: +0 %: 15 mins: Summer	Pipe	S13	S12	65.400	64.545	0.077	6.623	1.2	0.25	14.3	OK
R2.001	MY FSR: 1 years: +0 %: 15 mins: Summer	Pipe	S12	S11	65.400	64.036	0.116	12.376	0.9	0.3	23.7	OK
R2.002	MY FSR: 1 years: +0 %: 15 mins: Summer	Pipe	S11	S09	65.400	63.697	0.141	19.548	1.0	0.28	38.6	OK
R1.000	MY FSR: 1 years: +0 %: 15 mins: Summer	Pipe	S06	S07	65.400	64.378	0.089	6.497	0.9	0.32	13.4	OK
R1.001	MY FSR: 1 years: +0 %: 15 mins: Summer	Pipe	S07	S08	65.400	64.085	0.131	15.274	1.0	0.38	29.1	OK
R1.003	MY FSR: 1 years: +0 %: 15 mins: Summer	Pipe	S09	S10	65.400	63.605	0.209	42.154	1.1	0.36	77.9	OK
R1.004	MY FSR: 1 years: +0 %: 15 mins: Summer	Pipe	S10	SOAKA WAY 1	65.400	63.481	0.197	42.082	1.1	0.35	74.1	OK
1.001	MY FSR: 1 years: +0 %: 180 mins: Summer	Pipe	s14	s15	65.000	64.431	0.027	4.264	0.6	0.08	1.2	OK

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Type: Connections Summary Storm Phase: Phase															

1.002	MY FSR: 1 years: +0 %: 180 mins: Summer	Pipe	s15	s16	65.000	64.344	0.032	4.262	0.4	0.02	1.2	OK
1.003	MY FSR: 1 years: +0 %: 240 mins: Summer	Pipe	s16	s20	65.000	64.150	0.055	12.685	0.4	0.07	3.0	OK
4.001	MY FSR: 1 years: +0 %: 180 mins: Summer	Pipe	s19	s20	65.000	64.106	0.064	17.331	0.6	0.13	5.3	OK
10.001	MY FSR: 1 years: +0 %: 15 mins: Summer	Pipe	s26	s27	65.000	63.911	0.072	3.897	0.8	0.19	8.3	OK
15.001	MY FSR: 1 years: +0 %: 180 mins: Summer	Pipe	s30	s31	65.000	64.189	0.040	6.895	0.6	0.15	2.1	OK
1.006	MY FSR: 1 years: +0 %: 180 mins: Summer	Pipe	s27	SOAKA WAY 2	65.000	63.803	0.070	31.775	0.7	0.2	7.9	OK
1.000	MY FSR: 1 years: +0 %: 180 mins: Summer	Pipe	PP1	s14	65.068	64.664	0.027	4.267	0.6	0.07	1.2	OK
4.000	MY FSR: 1 years: +0 %: 60 mins: Summer	Pipe	PP6	s19	65.049	64.693	0.023	3.544	1.2	0.02	2.6	OK
13.000	MY FSR: 1 years: +0 %: 120 mins: Summer	Pipe	PP11	s28	65.107	64.667	0.027	3.968	0.9	0.04	1.9	OK
15.000	MY FSR: 1 years: +0 %: 180 mins: Summer	Pipe	PP13	s30	65.164	64.649	0.024	3.939	0.7	0.05	1.3	OK
R1.002	MY FSR: 1 years: +0 %: 15 mins: Summer	Pipe	S08	S09	65.400	63.757	0.151	22.601	1.0	0.32	42.6	OK
2.000	MY FSR: 1 years: +0 %: 240 mins: Summer	Pipe	PP2	s16	65.101	64.646	0.022	4.208	0.5	0.05	0.9	OK
3.000	MY FSR: 1 years: +0 %: 180 mins: Summer	Pipe	PP3	s16	65.049	64.670	0.023	3.180	0.6	0.05	1.1	OK
10.000	MY FSR: 1 years: +0 %: 240 mins: Summer	Pipe	PP9	s26	65.054	64.660	0.024	2.698	0.4	0.01	0.7	OK
7.000	MY FSR: 1 years: +0 %: 120 mins: Summer	Pipe	PP5 (1)	s17 (1)	65.054	64.682	0.026	4.074	0.7	0.02	1.7	OK
7.001	MY FSR: 1 years: +0 %: 120 mins: Summer	Pipe	s17 (1)	s18	65.000	64.291	0.031	4.072	0.6	0.04	1.7	OK
7.002	MY FSR: 1 years: +0 %: 180 mins: Summer	Pipe	s18	s19	65.000	64.232	0.044	8.370	0.5	0.04	2.6	OK

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1.005	MY FSR: 1 years: +0 %: 120 mins: Summer	Pipe	s24	s27	65.000	63.938	0.028	3.020	0.6	0.07	1.3	OK
11.000	MY FSR: 1 years: +0 %: 240 mins: Summer	Pipe	PP10	s26	65.054	64.660	0.024	2.540	0.4	0.01	0.7	OK
12.000 (1)	MY FSR: 1 years: +0 %: 15 mins: Summer	Pipe	s25	s26	65.000	64.102	0.070	3.898	0.8	0.2	8.6	OK
13.001	MY FSR: 1 years: +0 %: 180 mins: Summer	Pipe	s28	s29	65.000	64.104	0.033	6.386	0.7	0.11	1.9	OK
14.000	MY FSR: 1 years: +0 %: 360 mins: Summer	Pipe	PP10 (1)	s28	65.054	64.656	0.020	2.628	0.4	0.01	0.5	OK
15.002	MY FSR: 1 years: +0 %: 180 mins: Summer	Pipe	s31	s29	65.000	64.060	0.040	8.778	0.6	0.15	2.2	OK
16.000	MY FSR: 1 years: +0 %: 120 mins: Summer	Pipe	PP12	s30	65.035	64.679	0.026	2.446	0.7	0.02	1.2	OK
1.004	MY FSR: 1 years: +0 %: 180 mins: Summer	Pipe	s20	s21	65.000	64.051	0.074	28.323	0.7	0.19	8.2	OK
Pipe (1)	MY FSR: 1 years: +0 %: 120 mins: Summer	Pipe	PP7	s21	65.061	64.672	0.045	3.575	0.4	0.02	1.5	OK
Pipe (2)	MY FSR: 1 years: +0 %: 120 mins: Summer	Pipe	PP8	s24	65.067	64.668	0.021	3.023	0.9	0.02	1.3	OK
Pipe (3)	MY FSR: 1 years: +0 %: 180 mins: Summer	Pipe	s21	s22	65.000	63.988	0.075	32.576	0.8	0.22	9.5	OK
Pipe (4)	MY FSR: 1 years: +0 %: 180 mins: Summer	Pipe	s22	s23	65.000	63.864	0.073	38.390	0.8	0.11	10.4	OK
Pipe (5)	MY FSR: 1 years: +0 %: 180 mins: Summer	Pipe	s23	SOAKA WAY 2	65.000	63.822	0.070	38.376	0.8	0.12	10.4	OK
Pipe (6)	MY FSR: 1 years: +0 %: 180 mins: Summer	Pipe	PP5	s18	65.066	64.664	0.022	3.485	0.5	0.01	1.0	OK
Pipe (7)	MY FSR: 1 years: +0 %: 180 mins: Summer	Pipe	PP4	s19	65.063	64.665	0.035	3.322	0.3	0.02	1.0	OK
Pipe (8)	MY FSR: 1 years: +0 %: 180 mins: Summer	Pipe	s29	s27	65.000	63.876	0.060	15.157	0.5	0.09	4.0	OK
Pipe	MY FSR: 1 years: +0 %: 480 mins: Summer	Pipe	PP2 (1)	s31	65.231	64.630	0.022	3.589	0.4	0.03	0.5	OK

Project:	Date: 20/08/2025		
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Report Details: Type: Connections Summary Storm Phase: Phase	Company Address:		





MY 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
P01.003	MY FSR: 30 years: +0 %: 15 mins: Summer	Pipe	S03	S04	65.400	64.285	0.203	42.156	1.2	0.78	60.3	OK
P01.004	MY FSR: 30 years: +0 %: 15 mins: Summer	Pipe	S04	S05	65.400	63.924	0.235	61.127	1.4	0.62	101.6	OK
P01.001	MY FSR: 30 years: +0 %: 15 mins: Summer	Pipe	S01	S02	65.400	64.779	0.148	17.976	0.9	0.71	26.0	OK
P01.002	MY FSR: 30 years: +0 %: 15 mins: Summer	Pipe	S02	S03	65.400	64.535	0.220	37.128	1.1	0.81	63.2	OK
P01.005	MY FSR: 30 years: +0 %: 15 mins: Summer	Pipe	S05	SOAKA WAY 1	65.400	63.775	0.215	60.863	1.4	0.58	93.6	OK
P01.000	MY FSR: 30 years: +0 %: 15 mins: Summer	Pipe	PP15	S01	65.468	65.039	0.098	7.845	0.7	0.18	10.4	OK
R2.000	MY FSR: 30 years: +0 %: 15 mins: Summer	Pipe	S13	S12	65.400	64.603	0.141	16.200	1.4	0.63	36.6	OK
R2.001	MY FSR: 30 years: +0 %: 15 mins: Summer	Pipe	S12	S11	65.400	64.139	0.217	30.014	1.2	0.81	63.2	OK
R2.002	MY FSR: 30 years: +0 %: 15 mins: Summer	Pipe	S11	S09	65.400	63.838	0.296	47.994	1.0	0.68	93.4	OK
R1.000	MY FSR: 30 years: +0 %: 15 mins: Summer	Pipe	S06	S07	65.400	64.451	0.185	15.771	1.0	0.85	35.6	OK
R1.001	MY FSR: 30 years: +0 %: 15 mins: Summer	Pipe	S07	S08	65.400	64.215	0.242	37.314	1.2	0.98	74.6	OK
R1.003	MY FSR: 30 years: +0 %: 15 mins: Summer	Pipe	S09	S10	65.400	63.778	0.370	103.475	1.3	0.86	187.0	OK
R1.004	MY FSR: 30 years: +0 %: 15 mins: Summer	Pipe	S10	SOAKA WAY 1	65.400	63.630	0.330	103.394	1.5	0.87	182.7	OK
1.001	MY FSR: 30 years: +0 %: 60 mins: Summer	Pipe	s14	s15	65.000	64.466	0.058	9.438	0.9	0.38	5.5	OK

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1.002	MY FSR: 30 years: +0 %: 60 mins: Summer	Pipe	s15	s16	65.000	64.369	0.077	9.426	0.5	0.11	5.5	OK
1.003	MY FSR: 30 years: +0 %: 60 mins: Summer	Pipe	s16	s20	65.000	64.216	0.161	25.266	0.6	0.33	14.0	OK
4.001	MY FSR: 30 years: +0 %: 60 mins: Summer	Pipe	s19	s20	65.000	64.223	0.195	37.848	0.7	0.59	23.9	OK
10.001	MY FSR: 30 years: +0 %: 15 mins: Summer	Pipe	s26	s27	65.000	63.961	0.121	13.201	0.9	0.49	20.6	OK
15.001	MY FSR: 30 years: +0 %: 60 mins: Summer	Pipe	s30	s31	65.000	64.244	0.094	15.215	0.8	0.66	9.7	OK
1.006	MY FSR: 30 years: +0 %: 60 mins: Summer	Pipe	s27	SOAKA WAY 2	65.000	63.928	0.181	69.526	1.1	0.97	38.4	OK
1.000	MY FSR: 30 years: +0 %: 60 mins: Summer	Pipe	PP1	s14	65.068	64.727	0.058	9.450	0.9	0.3	5.5	OK
4.000	MY FSR: 30 years: +0 %: 30 mins: Summer	Pipe	PP6	s19	65.049	64.766	0.042	8.692	1.7	0.07	8.5	OK
13.000	MY FSR: 30 years: +0 %: 30 mins: Summer	Pipe	PP11	s28	65.107	64.738	0.060	7.136	1.2	0.14	6.8	OK
15.000	MY FSR: 30 years: +0 %: 60 mins: Summer	Pipe	PP13	s30	65.164	64.712	0.050	8.621	1.1	0.23	5.6	OK
R1.002	MY FSR: 30 years: +0 %: 15 mins: Summer	Pipe	S08	S09	65.400	63.894	0.300	55.281	1.1	0.8	105.7	OK
2.000	MY FSR: 30 years: +0 %: 60 mins: Summer	Pipe	PP2	s16	65.101	64.694	0.048	8.564	0.8	0.21	4.0	OK
3.000	MY FSR: 30 years: +0 %: 60 mins: Summer	Pipe	PP3	s16	65.049	64.726	0.051	7.314	0.9	0.23	5.0	OK
10.000	MY FSR: 30 years: +0 %: 60 mins: Summer	Pipe	PP9	s26	65.054	64.708	0.064	5.883	0.6	0.06	3.8	OK
7.000	MY FSR: 30 years: +0 %: 30 mins: Summer	Pipe	PP5 (1)	s17 (1)	65.054	64.769	0.052	7.588	1.0	0.07	6.8	OK
7.001	MY FSR: 30 years: +0 %: 30 mins: Summer	Pipe	s17 (1)	s18	65.000	64.323	0.063	7.570	0.8	0.15	6.8	OK
7.002	MY FSR: 30 years: +0 %: 60 mins: Summer	Pipe	s18	s19	65.000	64.265	0.119	18.727	0.6	0.19	11.5	OK

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1.005	MY FSR: 30 years: +0 %: 30 mins: Summer	Pipe	s24	s27	65.000	63.968	0.079	5.779	0.6	0.32	5.5	OK
11.000	MY FSR: 30 years: +0 %: 60 mins: Summer	Pipe	PP10	s26	65.054	64.716	0.064	5.554	0.6	0.06	3.9	OK
12.000 (1)	MY FSR: 30 years: +0 %: 15 mins: Summer	Pipe	s25	s26	65.000	64.152	0.117	9.588	1.0	0.51	21.2	OK
13.001	MY FSR: 30 years: +0 %: 60 mins: Summer	Pipe	s28	s29	65.000	64.153	0.081	14.439	1.0	0.55	9.9	OK
14.000	MY FSR: 30 years: +0 %: 60 mins: Summer	Pipe	PP10 (1)	s28	65.054	64.708	0.053	4.872	0.6	0.05	3.3	OK
15.002	MY FSR: 30 years: +0 %: 120 mins: Summer	Pipe	s31	s29	65.000	64.116	0.093	26.804	0.9	0.69	9.9	OK
16.000	MY FSR: 30 years: +0 %: 60 mins: Summer	Pipe	PP12	s30	65.035	64.732	0.062	6.604	1.1	0.09	5.1	OK
1.004	MY FSR: 30 years: +0 %: 60 mins: Summer	Pipe	s20	s21	65.000	64.196	0.217	63.077	1.0	0.86	37.7	OK
Pipe (1)	MY FSR: 30 years: +0 %: 60 mins: Summer	Pipe	PP7	s21	65.061	64.734	0.123	9.114	0.6	0.09	6.0	OK
Pipe (2)	MY FSR: 30 years: +0 %: 30 mins: Summer	Pipe	PP8	s24	65.067	64.737	0.042	5.790	1.8	0.07	5.5	OK
Pipe (3)	MY FSR: 30 years: +0 %: 60 mins: Summer	Pipe	s21	s22	65.000	64.127	0.196	72.154	1.2	1.03	43.6	OK
Pipe (4)	MY FSR: 30 years: +0 %: 60 mins: Summer	Pipe	s22	s23	65.000	63.971	0.175	82.370	1.1	0.49	47.3	OK
Pipe (5)	MY FSR: 30 years: +0 %: 60 mins: Summer	Pipe	s23	SOAKA WAY 2	65.000	63.918	0.161	82.296	1.2	0.53	47.4	OK
Pipe (6)	MY FSR: 30 years: +0 %: 60 mins: Summer	Pipe	PP5	s18	65.066	64.734	0.046	8.169	0.8	0.03	4.8	OK
Pipe (7)	MY FSR: 30 years: +0 %: 60 mins: Summer	Pipe	PP4	s19	65.063	64.733	0.100	7.811	0.5	0.08	4.9	OK
Pipe (8)	MY FSR: 30 years: +0 %: 60 mins: Summer	Pipe	s29	s27	65.000	63.952	0.160	35.022	0.7	0.45	19.3	OK
Pipe	MY FSR: 30 years: +0 %: 120 mins: Summer	Pipe	PP2 (1)	s31	65.231	64.671	0.062	7.630	0.7	0.17	3.0	OK

Project:	Date: 20/08/2025		
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Report Details: Type: Connections Summary Storm Phase: Phase	Company Address:		





MY 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
P01.003	MY FSR: 100 years: +0 %: 15 mins: Summer	Pipe	S03	S04	65.400	64.354	0.252	55.839	1.3	1.02	79.1	OK
P01.004	MY FSR: 100 years: +0 %: 15 mins: Summer	Pipe	S04	S05	65.400	63.974	0.282	80.397	1.5	0.8	129.9	OK
P01.001	MY FSR: 100 years: +0 %: 15 mins: Summer	Pipe	S01	S02	65.400	64.815	0.205	23.850	1.0	0.97	35.4	OK
P01.002	MY FSR: 100 years: +0 %: 15 mins: Summer	Pipe	S02	S03	65.400	64.614	0.294	48.612	1.2	1.05	81.9	Surcharged
P01.005	MY FSR: 100 years: +0 %: 15 mins: Summer	Pipe	S05	SOAKA WAY 1	65.400	63.821	0.256	80.102	1.5	0.75	121.7	OK
P01.000	MY FSR: 100 years: +0 %: 30 mins: Summer	Pipe	PP15	S01	65.468	65.064	0.126	14.977	0.7	0.24	14.0	OK
R2.000	MY FSR: 100 years: +0 %: 15 mins: Summer	Pipe	S13	S12	65.400	64.631	0.203	20.983	1.3	0.85	49.4	OK
R2.001	MY FSR: 100 years: +0 %: 15 mins: Winter	Pipe	S12	S11	65.400	64.183	0.300	39.123	1.0	0.95	73.7	OK
R2.002	MY FSR: 100 years: +0 %: 15 mins: Winter	Pipe	S11	S09	65.400	63.974	0.375	62.618	1.1	0.84	116.3	Surcharged
R1.000	MY FSR: 100 years: +0 %: 15 mins: Summer	Pipe	S06	S07	65.400	64.773	0.225	20.590	0.9	0.86	35.9	Surcharged
R1.001	MY FSR: 100 years: +0 %: 15 mins: Summer	Pipe	S07	S08	65.400	64.538	0.300	48.416	1.3	1.17	89.0	Surcharged
R1.003	MY FSR: 100 years: +0 %: 15 mins: Summer	Pipe	S09	S10	65.400	63.936	0.450	134.958	1.5	1.12	243.5	Surcharged
R1.004	MY FSR: 100 years: +0 %: 15 mins: Summer	Pipe	S10	SOAKA WAY 1	65.400	63.699	0.386	134.687	1.6	1.12	237.4	OK
1.001	MY FSR: 100 years: +0 %: 60 mins: Summer	Pipe	s14	s15	65.000	64.482	0.080	13.400	0.9	0.52	7.7	OK

Project:	Date: 20/08/2025			
	Designed by: p.shrestha	Checked by:	Approved By:	
Report Details: Type: Connections Summary Storm Phase: Phase	Company Address:			

1.002	MY FSR: 100 years: +0 %: 30 mins: Winter	Pipe	s15	s16	65.000	64.376	0.150	9.562	0.6	0.14	7.4	OK
1.003	MY FSR: 100 years: +0 %: 60 mins: Summer	Pipe	s16	s20	65.000	64.390	0.225	36.323	0.5	0.47	19.9	Surcharged
4.001	MY FSR: 100 years: +0 %: 60 mins: Summer	Pipe	s19	s20	65.000	64.413	0.225	53.380	0.8	0.78	31.6	Surcharged
10.001	MY FSR: 100 years: +0 %: 15 mins: Summer	Pipe	s26	s27	65.000	63.985	0.146	18.802	1.0	0.63	26.9	OK
15.001	MY FSR: 100 years: +0 %: 60 mins: Summer	Pipe	s30	s31	65.000	64.270	0.134	21.515	0.9	0.89	13.0	OK
1.006	MY FSR: 100 years: +0 %: 60 mins: Summer	Pipe	s27	SOAKA WAY 2	65.000	64.009	0.225	98.292	1.3	1.33	53.1	Surcharged
1.000	MY FSR: 100 years: +0 %: 60 mins: Summer	Pipe	PP1	s14	65.068	64.759	0.070	13.412	0.9	0.42	7.7	Surcharged
4.000	MY FSR: 100 years: +0 %: 30 mins: Summer	Pipe	PP6	s19	65.049	64.806	0.080	12.070	1.8	0.1	11.9	OK
13.000	MY FSR: 100 years: +0 %: 30 mins: Summer	Pipe	PP11	s28	65.107	64.780	0.073	10.031	1.3	0.18	8.9	Surcharged
15.000	MY FSR: 100 years: +0 %: 60 mins: Summer	Pipe	PP13	s30	65.164	64.744	0.057	12.240	1.1	0.29	7.1	Surcharged
R1.002	MY FSR: 100 years: +0 %: 15 mins: Summer	Pipe	S08	S09	65.400	64.109	0.375	72.130	1.2	1	132.7	Surcharged
2.000	MY FSR: 100 years: +0 %: 60 mins: Summer	Pipe	PP2	s16	65.101	64.722	0.059	12.558	0.9	0.31	5.9	OK
3.000	MY FSR: 100 years: +0 %: 60 mins: Summer	Pipe	PP3	s16	65.049	64.752	0.062	10.419	1.0	0.33	6.9	Surcharged
10.000	MY FSR: 100 years: +0 %: 60 mins: Summer	Pipe	PP9	s26	65.054	64.732	0.111	8.595	0.6	0.08	5.5	OK
7.000	MY FSR: 100 years: +0 %: 60 mins: Summer	Pipe	PP5 (1)	s17 (1)	65.054	64.816	0.107	14.854	1.0	0.09	9.0	Surcharged
7.001	MY FSR: 100 years: +0 %: 60 mins: Summer	Pipe	s17 (1)	s18	65.000	64.430	0.198	14.845	0.7	0.2	9.1	OK
7.002	MY FSR: 100 years: +0 %: 60 mins: Summer	Pipe	s18	s19	65.000	64.426	0.225	26.608	0.6	0.27	16.5	Surcharged

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1.005	MY FSR: 100 years: +0 %: 30 mins: Summer	Pipe	s24	s27	65.000	64.015	0.145	8.409	0.6	0.44	7.6	OK
11.000	MY FSR: 100 years: +0 %: 30 mins: Summer	Pipe	PP10	s26	65.054	64.744	0.100	5.771	0.7	0.08	5.5	Surcharged
12.000 (1)	MY FSR: 100 years: +0 %: 15 mins: Summer	Pipe	s25	s26	65.000	64.175	0.139	12.447	1.1	0.66	27.7	OK
13.001	MY FSR: 100 years: +0 %: 30 mins: Summer	Pipe	s28	s29	65.000	64.173	0.122	15.045	1.0	0.76	13.7	OK
14.000	MY FSR: 100 years: +0 %: 60 mins: Summer	Pipe	PP10 (1)	s28	65.054	64.734	0.063	7.300	0.7	0.08	4.9	OK
15.002	MY FSR: 100 years: +0 %: 120 mins: Summer	Pipe	s31	s29	65.000	64.165	0.129	37.756	0.9	1.04	15.0	OK
16.000	MY FSR: 100 years: +0 %: 30 mins: Summer	Pipe	PP12	s30	65.035	64.760	0.073	7.071	1.2	0.13	7.4	Surcharged
1.004	MY FSR: 100 years: +0 %: 60 mins: Summer	Pipe	s20	s21	65.000	64.356	0.225	89.664	1.3	1.17	51.4	Surcharged
Pipe (1)	MY FSR: 100 years: +0 %: 60 mins: Summer	Pipe	PP7	s21	65.061	64.763	0.150	12.722	0.6	0.12	8.2	Surcharged
Pipe (2)	MY FSR: 100 years: +0 %: 30 mins: Summer	Pipe	PP8	s24	65.067	64.776	0.068	8.423	1.4	0.09	7.6	Surcharged
Pipe (3)	MY FSR: 100 years: +0 %: 60 mins: Summer	Pipe	s21	s22	65.000	64.222	0.225	102.345	1.5	1.4	59.5	Surcharged
Pipe (4)	MY FSR: 100 years: +0 %: 60 mins: Summer	Pipe	s22	s23	65.000	64.017	0.217	115.793	1.2	0.67	64.4	OK
Pipe (5)	MY FSR: 100 years: +0 %: 60 mins: Summer	Pipe	s23	SOAKAWAY 2	65.000	63.957	0.197	115.700	1.3	0.73	64.5	OK
Pipe (6)	MY FSR: 100 years: +0 %: 60 mins: Summer	Pipe	PP5	s18	65.066	64.773	0.127	11.782	0.9	0.04	6.6	OK
Pipe (7)	MY FSR: 100 years: +0 %: 60 mins: Summer	Pipe	PP4	s19	65.063	64.771	0.150	11.247	0.5	0.11	6.7	Surcharged
Pipe (8)	MY FSR: 100 years: +0 %: 60 mins: Summer	Pipe	s29	s27	65.000	64.057	0.225	50.408	0.7	0.64	27.6	Surcharged
Pipe	MY FSR: 100 years: +0 %: 60 mins: Summer	Pipe	PP2 (1)	s31	65.231	64.694	0.090	8.405	0.7	0.28	5.1	Surcharged

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Report Details: Type: Connections Summary Storm Phase: Phase	Company Address:		





MY FSR: 100 years: Increase Rainfall (%): +20: 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
P01.003	MY FSR: 100 years: +20 %: 15 mins: Summer	Pipe	S03	S04	65.400	64.578	0.300	69.192	1.3	1.23	95.3	Surcharged
P01.004	MY FSR: 100 years: +20 %: 15 mins: Summer	Pipe	S04	S05	65.400	64.039	0.335	98.659	1.5	0.96	156.1	OK
P01.001	MY FSR: 100 years: +20 %: 15 mins: Summer	Pipe	S01	S02	65.400	65.093	0.225	31.004	1.1	1.17	42.7	Surcharged
P01.002	MY FSR: 100 years: +20 %: 15 mins: Summer	Pipe	S02	S03	65.400	64.914	0.300	60.565	1.2	1.1	85.7	Surcharged
P01.005	MY FSR: 100 years: +20 %: 15 mins: Summer	Pipe	S05	SOAKA WAY 1	65.400	63.861	0.291	98.303	1.5	0.88	142.1	OK
P01.000	MY FSR: 100 years: +20 %: 15 mins: Summer	Pipe	PP15	S01	65.468	65.154	0.225	14.716	0.9	0.48	28.1	OK
R2.000	MY FSR: 100 years: +20 %: 15 mins: Summer	Pipe	S13	S12	65.400	65.058	0.225	25.185	1.2	0.81	46.8	Surcharged
R2.001	MY FSR: 100 years: +20 %: 15 mins: Summer	Pipe	S12	S11	65.400	64.705	0.300	46.980	1.2	1.12	86.9	Surcharged
R2.002	MY FSR: 100 years: +20 %: 15 mins: Summer	Pipe	S11	S09	65.400	64.284	0.375	75.284	1.3	1.04	144.1	Surcharged
R1.000	MY FSR: 100 years: +20 %: 15 mins: Summer	Pipe	S06	S07	65.400	65.397	0.225	24.788	1.1	1.07	44.5	Flood Risk
R1.001	MY FSR: 100 years: +20 %: 15 mins: Summer	Pipe	S07	S08	65.400	65.064	0.300	58.172	1.6	1.45	110.5	Surcharged
R1.003	MY FSR: 100 years: +20 %: 15 mins: Summer	Pipe	S09	S10	65.400	64.152	0.450	162.216	1.9	1.41	306.8	Surcharged
R1.004	MY FSR: 100 years: +20 %: 15 mins: Summer	Pipe	S10	SOAKA WAY 1	65.400	63.800	0.450	161.409	1.9	1.44	304.6	Surcharged
1.001	MY FSR: 100 years: +20 %: 60 mins: Summer	Pipe	s14	s15	65.000	64.585	0.150	16.714	1.0	0.63	9.2	Surcharged

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1.002	MY FSR: 100 years: +20 %: 60 mins: Summer	Pipe	s15	s16	65.000	64.548	0.225	16.703	0.5	0.18	9.3	Surcharged
1.003	MY FSR: 100 years: +20 %: 60 mins: Summer	Pipe	s16	s20	65.000	64.540	0.225	45.551	0.6	0.58	24.8	Surcharged
4.001	MY FSR: 100 years: +20 %: 60 mins: Summer	Pipe	s19	s20	65.000	64.566	0.225	66.349	0.9	0.92	37.5	Surcharged
10.001	MY FSR: 100 years: +20 %: 15 mins: Summer	Pipe	s26	s27	65.000	64.007	0.197	23.604	1.0	0.76	32.4	OK
15.001	MY FSR: 100 years: +20 %: 60 mins: Summer	Pipe	s30	s31	65.000	64.462	0.150	26.760	0.9	1.05	15.4	Surcharged
1.006	MY FSR: 100 years: +20 %: 60 mins: Summer	Pipe	s27	SOAKA WAY 2	65.000	64.057	0.225	122.184	1.6	1.61	63.9	Surcharged
1.000	MY FSR: 100 years: +20 %: 60 mins: Summer	Pipe	PP1	s14	65.068	64.786	0.079	16.728	1.0	0.51	9.4	Surcharged
4.000	MY FSR: 100 years: +20 %: 30 mins: Summer	Pipe	PP6	s19	65.049	64.839	0.159	14.918	1.9	0.12	14.2	Surcharged
13.000	MY FSR: 100 years: +20 %: 30 mins: Summer	Pipe	PP11	s28	65.107	64.817	0.120	12.461	1.1	0.21	10.4	Surcharged
15.000	MY FSR: 100 years: +20 %: 60 mins: Summer	Pipe	PP13	s30	65.164	64.773	0.062	15.247	1.2	0.33	8.2	Surcharged
R1.002	MY FSR: 100 years: +20 %: 15 mins: Summer	Pipe	S08	S09	65.400	64.423	0.375	86.670	1.5	1.27	168.4	Surcharged
2.000	MY FSR: 100 years: +20 %: 60 mins: Summer	Pipe	PP2	s16	65.101	64.745	0.067	15.888	1.0	0.39	7.3	Surcharged
3.000	MY FSR: 100 years: +20 %: 60 mins: Summer	Pipe	PP3	s16	65.049	64.773	0.070	13.004	1.1	0.4	8.5	Surcharged
10.000	MY FSR: 100 years: +20 %: 60 mins: Summer	Pipe	PP9	s26	65.054	64.751	0.147	10.860	0.6	0.11	6.9	Surcharged
7.000	MY FSR: 100 years: +20 %: 30 mins: Summer	Pipe	PP5 (1)	s17 (1)	65.054	65.008	0.177	13.717	1.0	0.1	10.2	Flood
7.001	MY FSR: 100 years: +20 %: 30 mins: Summer	Pipe	s17 (1)	s18	65.000	64.566	0.225	13.694	0.9	0.23	10.5	Surcharged
7.002	MY FSR: 100 years: +20 %: 30 mins: Summer	Pipe	s18	s19	65.000	64.562	0.225	24.105	0.7	0.31	19.0	Surcharged

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1.005	MY FSR: 100 years: +20 %: 30 mins: Summer	Pipe	s24	s27	65.000	64.080	0.150	10.630	0.6	0.53	9.3	Surcharged
11.000	MY FSR: 100 years: +20 %: 30 mins: Summer	Pipe	PP10	s26	65.054	64.769	0.134	7.490	0.7	0.1	7.0	Surcharged
12.000 (1)	MY FSR: 100 years: +20 %: 15 mins: Summer	Pipe	s25	s26	65.000	64.196	0.158	14.866	1.1	0.79	33.1	OK
13.001	MY FSR: 100 years: +20 %: 30 mins: Summer	Pipe	s28	s29	65.000	64.266	0.150	19.077	0.9	0.91	16.4	Surcharged
14.000	MY FSR: 100 years: +20 %: 30 mins: Summer	Pipe	PP10 (1)	s28	65.054	64.755	0.113	6.638	0.6	0.1	6.1	Surcharged
15.002	MY FSR: 100 years: +20 %: 60 mins: Summer	Pipe	s31	s29	65.000	64.342	0.150	37.720	1.1	1.32	19.0	Surcharged
16.000	MY FSR: 100 years: +20 %: 30 mins: Summer	Pipe	PP12	s30	65.035	64.783	0.133	8.891	1.2	0.17	9.4	Surcharged
1.004	MY FSR: 100 years: +20 %: 60 mins: Summer	Pipe	s20	s21	65.000	64.485	0.225	111.858	1.6	1.41	62.1	Surcharged
Pipe (1)	MY FSR: 100 years: +20 %: 30 mins: Summer	Pipe	PP7	s21	65.061	64.788	0.150	12.019	0.7	0.16	10.3	Surcharged
Pipe (2)	MY FSR: 100 years: +20 %: 30 mins: Summer	Pipe	PP8	s24	65.067	64.809	0.102	10.647	1.4	0.11	9.2	Surcharged
Pipe (3)	MY FSR: 100 years: +20 %: 60 mins: Summer	Pipe	s21	s22	65.000	64.288	0.225	127.553	1.8	1.69	72.0	Surcharged
Pipe (4)	MY FSR: 100 years: +20 %: 60 mins: Summer	Pipe	s22	s23	65.000	64.061	0.257	143.697	1.2	0.81	77.8	OK
Pipe (5)	MY FSR: 100 years: +20 %: 60 mins: Summer	Pipe	s23	SOAKAWAY 2	65.000	63.993	0.230	143.437	1.3	0.88	78.0	OK
Pipe (6)	MY FSR: 100 years: +20 %: 60 mins: Summer	Pipe	PP5	s18	65.066	64.805	0.208	14.808	0.9	0.05	8.0	OK
Pipe (7)	MY FSR: 100 years: +20 %: 60 mins: Summer	Pipe	PP4	s19	65.063	64.803	0.150	14.107	0.5	0.14	8.0	Surcharged
Pipe (8)	MY FSR: 100 years: +20 %: 60 mins: Summer	Pipe	s29	s27	65.000	64.123	0.225	63.226	0.9	0.78	33.9	Surcharged
Pipe	MY FSR: 100 years: +20 %: 60 mins: Summer	Pipe	PP2 (1)	s31	65.231	64.712	0.100	10.883	0.8	0.34	6.2	Surcharged