

10th August 2021

Mr C Bartlett
West Sussex County Council
County Planning
County Hall
Chichester
PO19 1RH

edgeplan

16 Upper Woburn Place
London
WC1H 0BS
t. 0203 741 8228
e. info@edgeplan.co.uk
www.edgeplan.co.uk

Our ref: EP1445
Your ref: WSCC/055/20

Dear Chris,

APPLICATION FOR THE SUBMISSION OF DETAILS RESERVED BY PLANNING CONDITION IN RESPECT OF PLANNING PERMISSION REF: WSCC/055/20. THE SUBMISSION IS IN RELATION TO THE FULL DISCHARGE OF CONDITION 4 (DRAINAGE STRATEGY) IN RESPECT OF THE WOODLANDS MEED COLLEGE, BIRCHWOOD GROVE ROAD

We hereby submit on behalf of our client ISG Plc on behalf of West Sussex County Council (“the Applicant”), an application for the submission of details reserved by condition in respect of planning permission WSCC/055/20.

BACKGROUND

Planning permission was granted for the construction of a new two storey SEND school with associated landscaping, flood lit all weather pitch, car parking, drop-off/pick up facilities and alterations to existing access arrangements. The site is located within Burgess Hill, under the jurisdiction of West Sussex County Council and Mid Sussex District Council and the site currently a mixed sex college which has 100 no. pupils. Planning permission was granted on the 27th April 2021 subject to a number of planning conditions.

THE PROPOSAL

This application includes submissions for the full discharge of the following condition in relation to planning permission WSCC/055/20:

- Condition 4 – Drainage Strategy

Full details of the information submitted, and further commentary is included within the table below.

Condition	Submitted information
3 – Drainage Strategy	WMC-ATK-XX-B1-DR-C-1108 – Drainage Layout Drawing 1 of 5 WMC-ATK-XX-B1-DR-C-1109 – Drainage Layout Drawing 2 of 5 WMC-ATK-XX-B1-DR-C-1110 – Drainage Layout Drawing 3 of 5 WMC-ATK-XX-B1-DR-C-1111 – Drainage Layout Drawing 4 of 5 WMC-ATK-XX-B1-DR-C-1112 – Drainage Layout Drawing 5 of 5

(Table 1.1 Details submitted to discharge conditions)

SUBMISSION

In addition to the plans noted in Table 1.1 above the following documents have been submitted electronically via the Planning Portal (Ref: PP-10120080).

- Application form
- Covering Letter (this letter)
- Site location plan

In accordance with the Town and Country Planning (Fees for Applications, Deemed Applications, Requests and Site Visits) (England) Regulations 2012, as amended, an application fee of £116 plus a £25 service charge, has been calculated. Payment of the application fee has been made to the Planning Portal and will be paid direct to the Council by the Planning Portal.

We trust that you will find this application to be in order. Should you require any additional information or clarification please do not hesitate to contact the writer.

Yours sincerely



Chris Maltby MRTPI

e. chris.maltby@edgeplan.co.uk

m. 07908 046060

Application for approval of details reserved by condition.
Town and Country Planning Act 1990
Planning (Listed Buildings and Conservation Areas) Act 1990

Publication of applications on planning authority websites.

Please note that the information provided on this application form and in supporting documents may be published on the Authority's website. If you require any further clarification, please contact the Authority's planning department.

1. Site Address

Number

Suffix

Property name

Address line 1

Address line 2

Address line 3

Town/city

Postcode

Description of site location must be completed if postcode is not known:

Easting (x)

Northing (y)

Description

2. Applicant Details

Title

First name

Surname

Company name

Address line 1

Address line 2

Address line 3

Town/city

2. Applicant Details

Country	<input type="text"/>
Postcode	<input type="text" value="PO19 1RG"/>
Are you an agent acting on behalf of the applicant?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Primary number	<input type="text"/>
Secondary number	<input type="text"/>
Fax number	<input type="text"/>
Email address	<input type="text"/>

3. Agent Details

Title	<input type="text" value="Mr"/>
First name	<input type="text" value="Chris"/>
Surname	<input type="text" value="Maltby"/>
Company name	<input type="text" value="Edgeplan"/>
Address line 1	<input type="text" value="3rd Floor"/>
Address line 2	<input type="text" value="16 Upper Woburn Place"/>
Address line 3	<input type="text"/>
Town/city	<input type="text" value="London"/>
Country	<input type="text"/>
Postcode	<input type="text" value="WC1H 0BS"/>
Primary number	<input type="text" value="07908046060"/>
Secondary number	<input type="text"/>
Fax number	<input type="text"/>
Email	<input type="text" value="chris.maltby@edgeplan.co.uk"/>

4. Description of the Proposal

Please provide a description of the approved development as shown on the decision letter

Construction of new two storey Special Educational Needs and Disabilities (SEND) College building with associated soft and hard landscaping, a floodlit all-weather pitch, car parking and drop off/pick up facilities and alterations to existing access arrangements

Reference number

WSCC/055/20

Date of decision (date must be pre-application submission)

Please state the condition number(s) to which this application relates

Condition number(s)

4 - Drainage Strategy

4. Description of the Proposal

Has the development already started?

Yes No

5. Part Discharge of Conditions

Are you seeking to discharge only part of a condition?

Yes No

6. Discharge of Conditions

Please provide a full description and/or list of the materials/details that are being submitted for approval

Please see cover letter

7. Site Visit

Can the site be seen from a public road, public footpath, bridleway or other public land?

Yes No

If the planning authority needs to make an appointment to carry out a site visit, whom should they contact?

- The agent
- The applicant
- Other person

8. Pre-application Advice

Has assistance or prior advice been sought from the local authority about this application?

Yes No

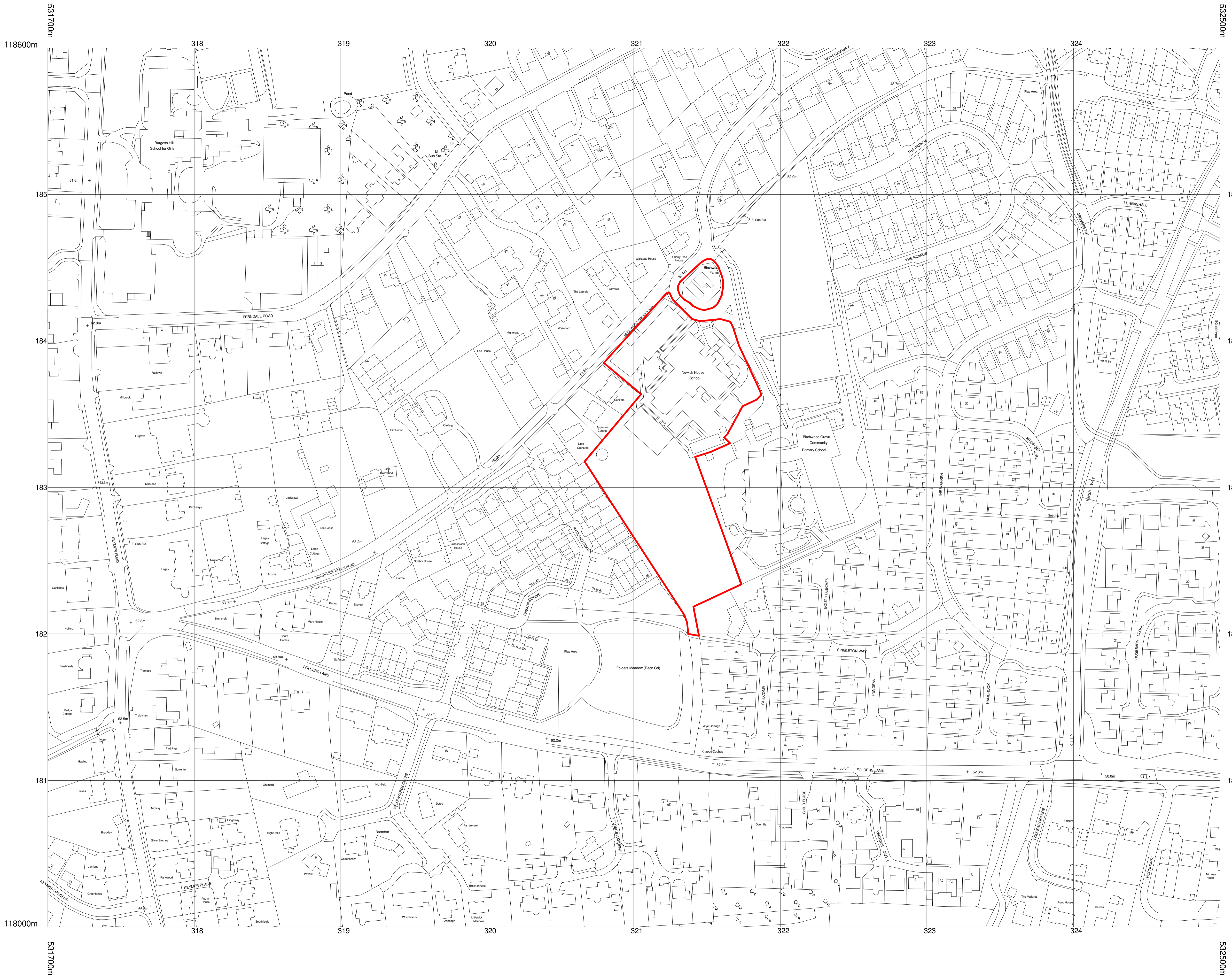
9. Declaration

I/we hereby apply for planning permission/consent as described in this form and the accompanying plans/drawings and additional information. I/we confirm that, to the best of my/our knowledge, any facts stated are true and accurate and any opinions given are the genuine opinions of the person(s) giving them.

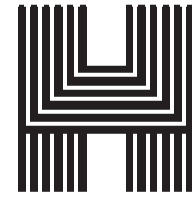
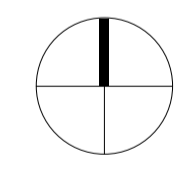
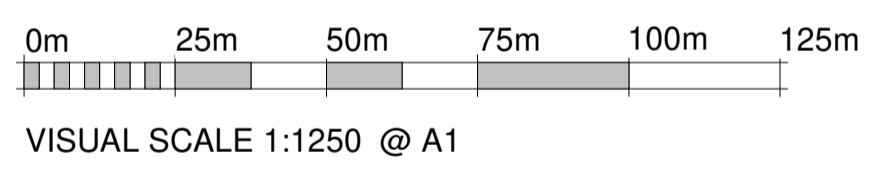
Date (cannot be pre-application)

10/08/2021

Rev.	Date	By	Check	Appr.	Description
P.1	20/11/20				Issue to Planning



Key
— Existing Site Boundary Line



Haverstock LLP
 Studio 10, Cliff Road Studios
 Cliff Road, London NW1 9AN

tel+44 (0)20 7267 7676
 info@haverstock.com
 www.haverstock.com

Client:
 West Sussex Council

Job Title:
 Woodlands Meed College

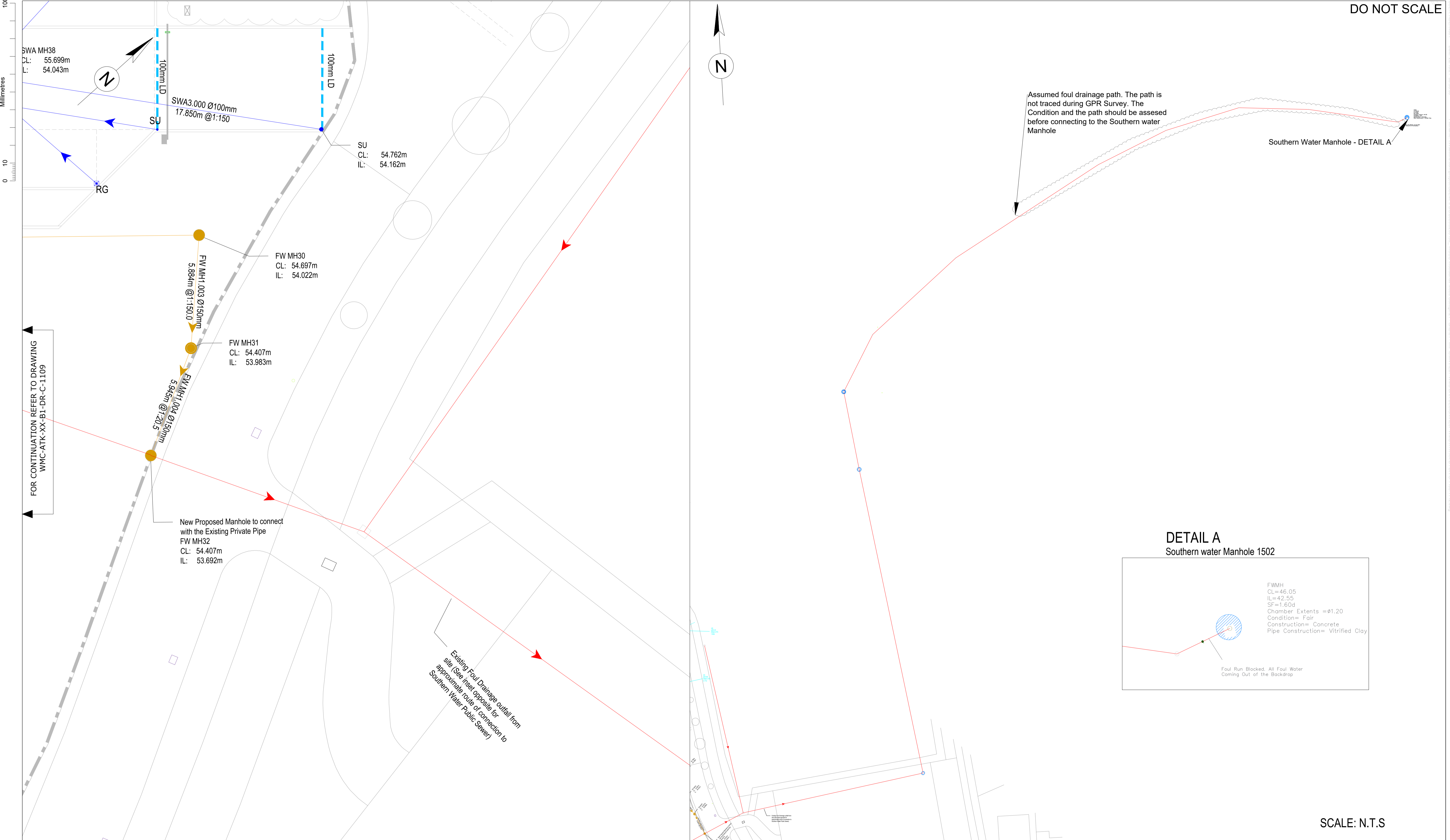
Drawing Title:
 Site Location Plan

Job/ Dwg No/ Rev:
 1191 - HAV - ZZ - XX - DR - A - 1007 P.1

Drawn: OJ **Checked:** SDR **Appr:** CB **Date:** 20/11/20

Drawing Status: Planning **Scale(s):** 1:1250 @ A1

Do not scale from this drawing. Check all dimensions on site before ordering.



Assumed foul drainage path. The path is not traced during GPR Survey. The Condition and the path should be assessed before connecting to the Southern water Manhole

Southern Water Manhole - DETAIL A

FOR CONTINUATION REFER TO DRAWING WMC-ATK-XX-B1-DR-C-1109

New Proposed Manhole to connect with the Existing Private Pipe FW MH32
CL: 54.407m
IL: 53.692m

Existing Foul Drainage outfall from site (See inset opposite for approximate route of connection to Southern Water Public Sewer)

DETAIL A

Southern water Manhole 1502

Foul Run Blocked. All Foul Water Coming Out of the Backdrop

FWMH
CL=46.05
IL=42.55
SF=1.60d
Chamber Extents =Ø1.20
Condition= Fair
Construction= Concrete
Pipe Construction= Vitrified Clay

SCALE: N.T.S

- NOTE**
- TO BE READ IN CONJUNCTION WITH ALL RELEVANT CIVIL ENGINEERS, ARCHITECTURAL, LANDSCAPE AND STRUCTURAL DRAWINGS.
 - REFER TO DRAWINGS [WMC-ATK-XX-B1-SH-2100] FOR DRAINAGE SCHEDULE, [WMC-BSP-XX-00-DR-Y-1004] FOR BACKING WASH HOLDING TANK AND [B4TW002] FOR TOPOGRAPHIC AND UTILITY SURVEY
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 - LENGTHS SHOWN IN METERS. LEVELS SHOWN IN METERS ABOVE ORDNANCE DATUM.
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KEY:

- PROPOSED FOUL WATER DRAIN
- PROPOSED SURFACE WATER DRAIN
- PROPOSED LINEAR DRAIN
- PROPOSED RODDING EYE
- RAINWATER PIPE CONNECTING
- ROAD GULLY
- FOUL WATER CONNECTION (SFP/FG)
- SURFACE WATER PERFORATED PIPE WITHIN FRENCH DRAIN
- SURFACE WATER MANHOLE OR CATCHPIT (REFER LAYOUT FOR DETAILS)
- FOUL WATER MANHOLE/CHAMBER
- EXISTING SURFACE DRAINAGE
- EXISTING FOUL DRAINAGE
- TEMPORARY FOUL DRAINAGE DURING CONSTRUCTION

NOTATION USED

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- MH = MANHOLE CHAMBER
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- RWP = RAIN WATER PIPE CONNECTION
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- SU = SUMP UNIT
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- CL = COVER LEVEL
- IL = INVERT LEVEL

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION						
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:						
CONSTRUCTION						
N/A						
MAINTENANCE/CLEANING						
N/A						
DECOMMISSIONING/DEMOLITION						
N/A						
It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement						
Rev.	Date	Description	By	Chkd	App'd	
03	18/10/2021	Surface water Drainage attenuation size modification	YA	BW	BW	
02	29/09/2021	Surface Water Drainage Combined into one System	YA	BW	BW	
01	06/08/2021	For WSCC Approval	YA	AS	BW	

Drawing Status: **FOR APPROVAL**

Suitability: **S04**

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The Hub
500 Park Avenue
Aztec West
Bristol
BS32 4RZ
Tel: +44 (0)1454 662000
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Client: **west sussex county council**

ISG

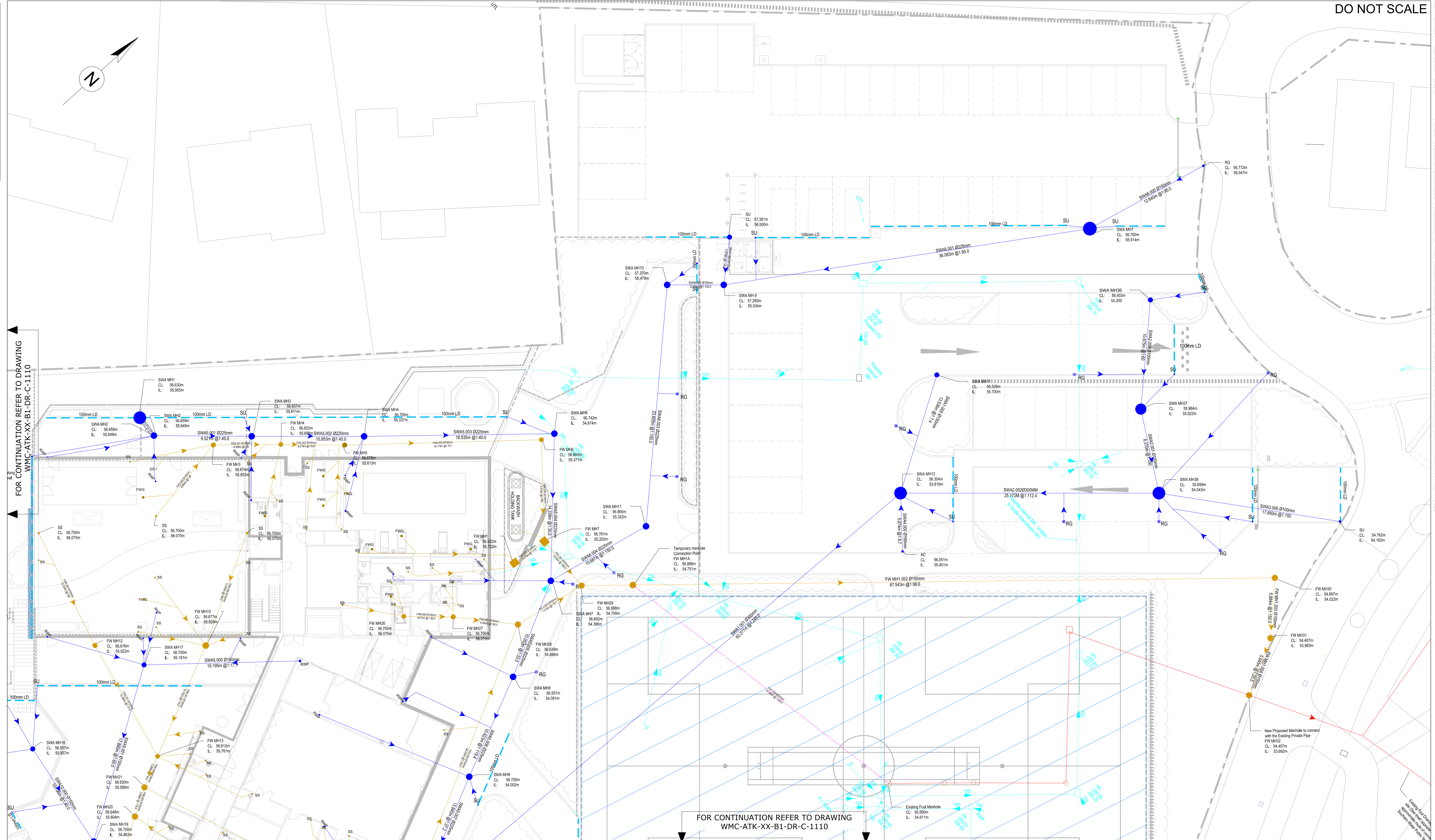
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WOODLANDS MEED COLLEGE				
Drawing Title				
DRAINAGE LAYOUT DRAWING SHEET 1 OF 5				
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Original Size	Date	Date	Date	Date
A1	04/08/2021	06/08/2021	06/08/2021	06/08/2021
Drawing Number				Revision
WMC-ATK-XX-B1-DR-C-1108				P02

Internal Project Number: WMC-ATK-XX-B1-DR-C-1108

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Millimetres

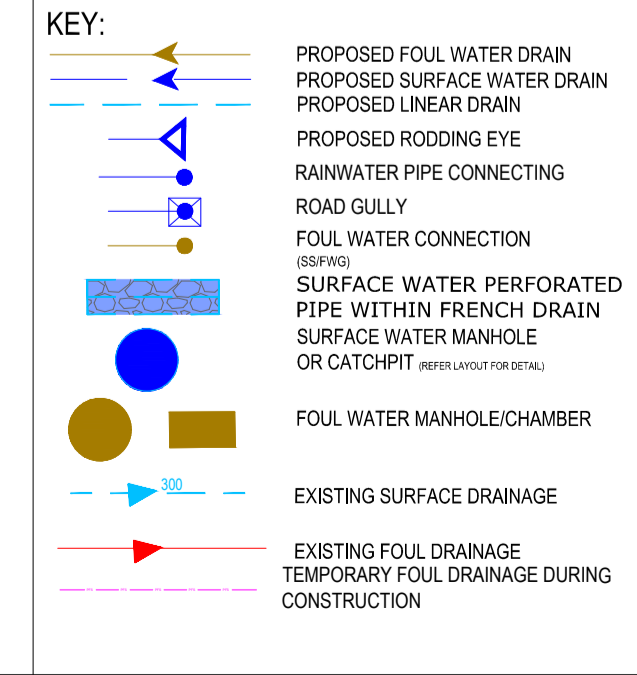
CLASSIFICATION - Baseline (Low Risk)

DO NOT SCALE



NOTE

1. TO BE READ IN CONJUNCTION WITH ALL RELEVANT CIVIL ENGINEERS, ARCHITECTURAL, LANDSCAPE AND STRUCTURAL DRAWINGS.
2. REFER TO DRAWINGS [WMC-ATK-XX-B1-SH-2100] FOR DRAINAGE SCHEDULE, [WMC-BSP-XX-00-DR-Y-1004] FOR BACKING WASH HOLDING TANK AND [B4TW02] FOR TOPOGRAPHIC AND UTILITY SURVEY.
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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

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CONSTRUCTION	MAINTENANCE/CLEANING	DECOMMISSIONING/DEMOLITION
N/A	N/A	N/A

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01	06/08/2021	For WSCC Approval	YA	AS	BW

Drawing Status: **FOR APPROVAL**

Suitability: **S04**

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The Hub
 500 Park Avenue
 Aztec West
 Bristol
 BS32 4RZ
 Tel: +44 (0)1454 662000
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Client: **west sussex county council**

Project Title: **WOODLANDS MEED COLLEGE**

Drawing Title: **DRAINAGE LAYOUT DRAWING SHEET 2 OF 5**

Scale	Designed	Drawn	Checked	Authorised
1:1000	YA	YA	AS	BW

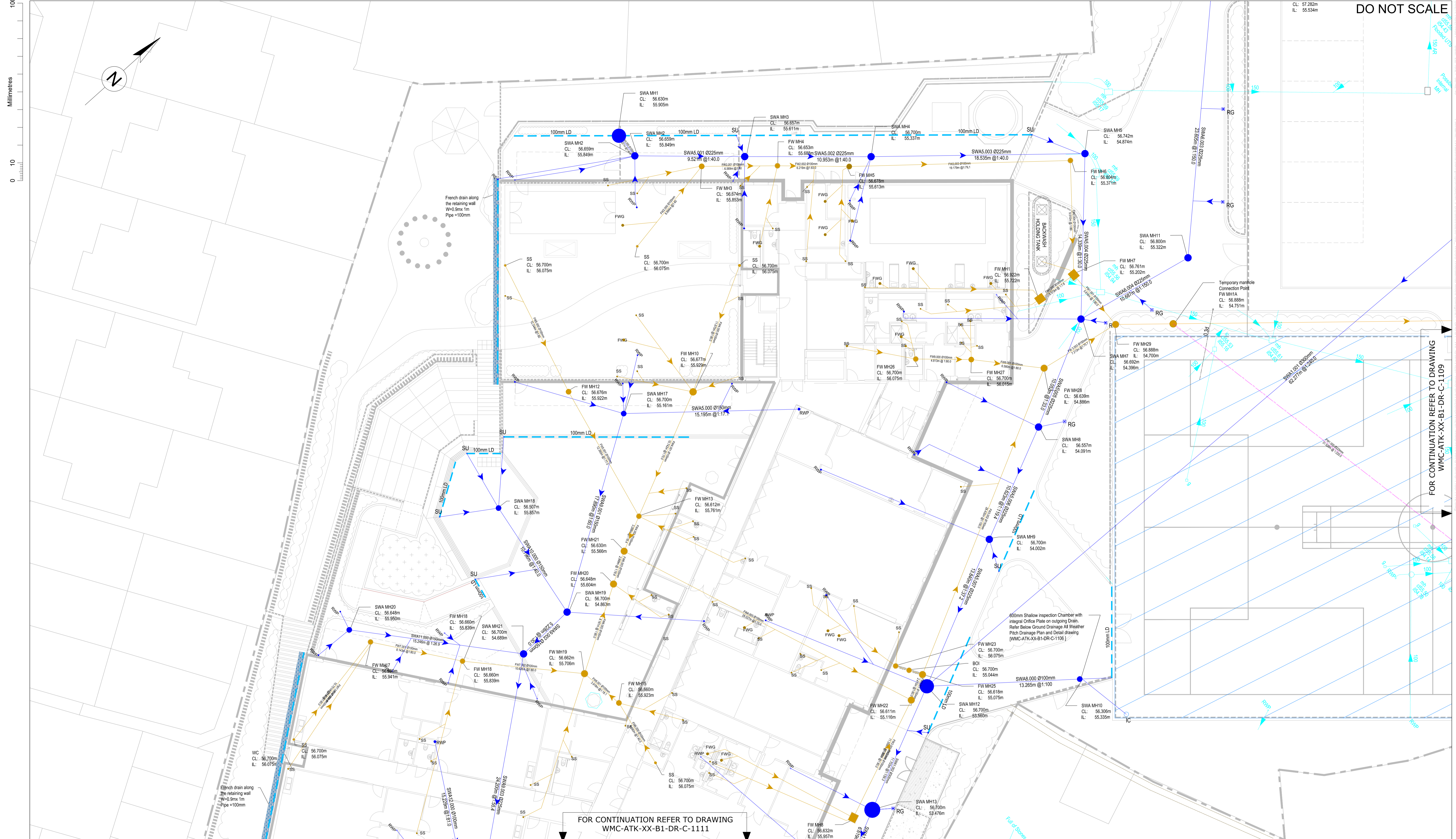
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Drawing Number: **WMC-ATK-XX-B1-DR-C-1109**

Revision: **P02**

Internal Project Number: WMC-ATK-XX-B1-DR-C-1109

CLASSIFICATION - Baseline (Low Risk)

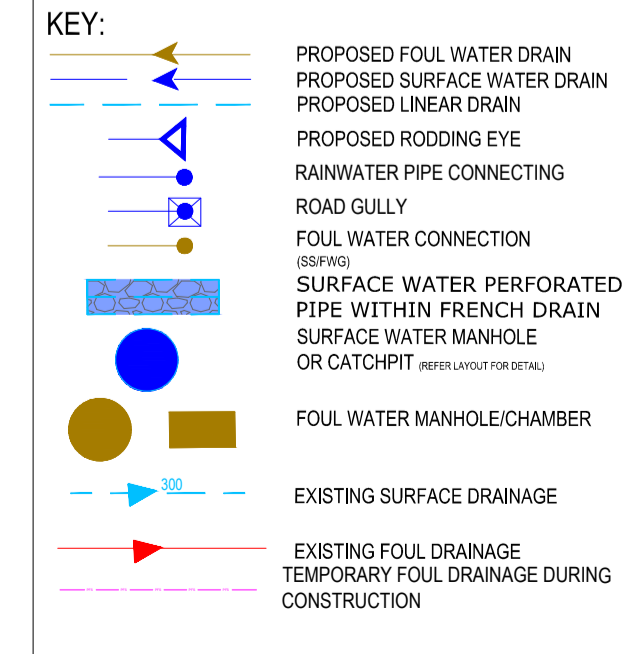


FOR CONTINUATION REFER TO DRAWING WMC-ATK-XX-B1-DR-C-1111

FOR CONTINUATION REFER TO DRAWING WMC-ATK-XX-B1-DR-C-1109

NOTE

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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

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CONSTRUCTION	MAINTENANCE/CLEANING	DECOMMISSIONING/DEMOLITION
N/A	N/A	N/A

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Suitability: **S04**

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Client: **west sussex county council**

Project Title: **WOODLANDS MEED COLLEGE**

Drawing Title: **DRAINAGE LAYOUT DRAWING SHEET 3 OF 5**

Scale	Designed	Drawn	Checked	Authorised
1:1000	YA	YA	AS	BW

Original Size	Date	Date	Date	Date
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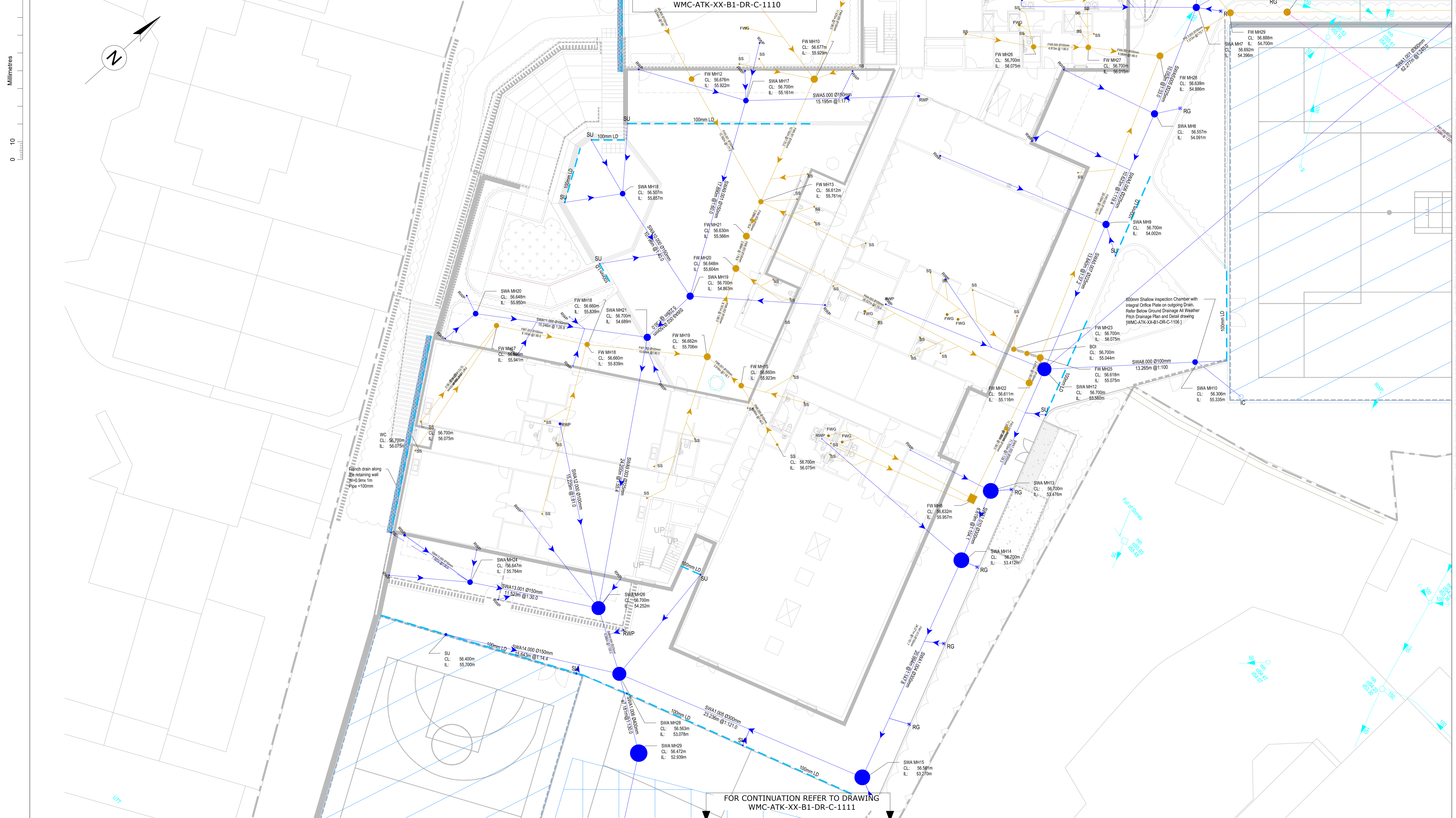
Drawing Number: **WMC-ATK-XX-B1-DR-C-1110**

Revision: **P02**



FOR CONTINUATION REFER TO DRAWING WMC-ATK-XX-B1-DR-C-1110

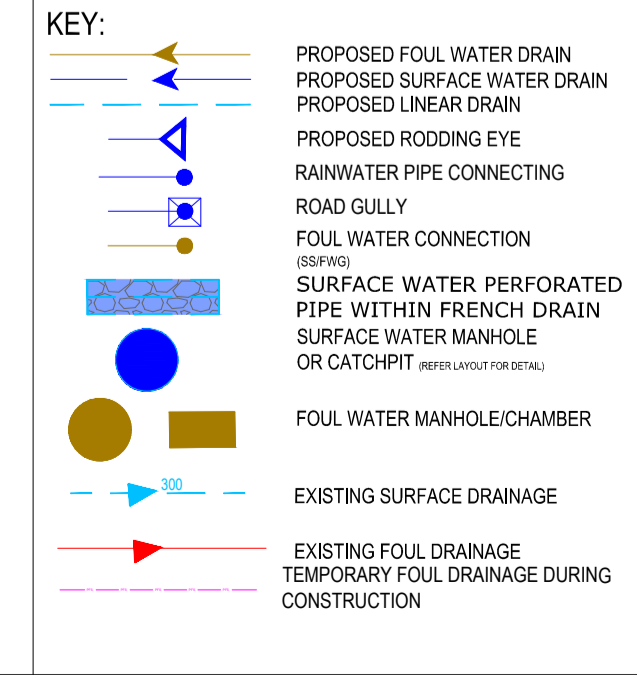
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FOR CONTINUATION REFER TO DRAWING WMC-ATK-XX-B1-DR-C-1111

NOTE

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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

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Rev.	Date	Description	By	Chkd	App'd
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Suitability: **S04**

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west sussex county council

ISG

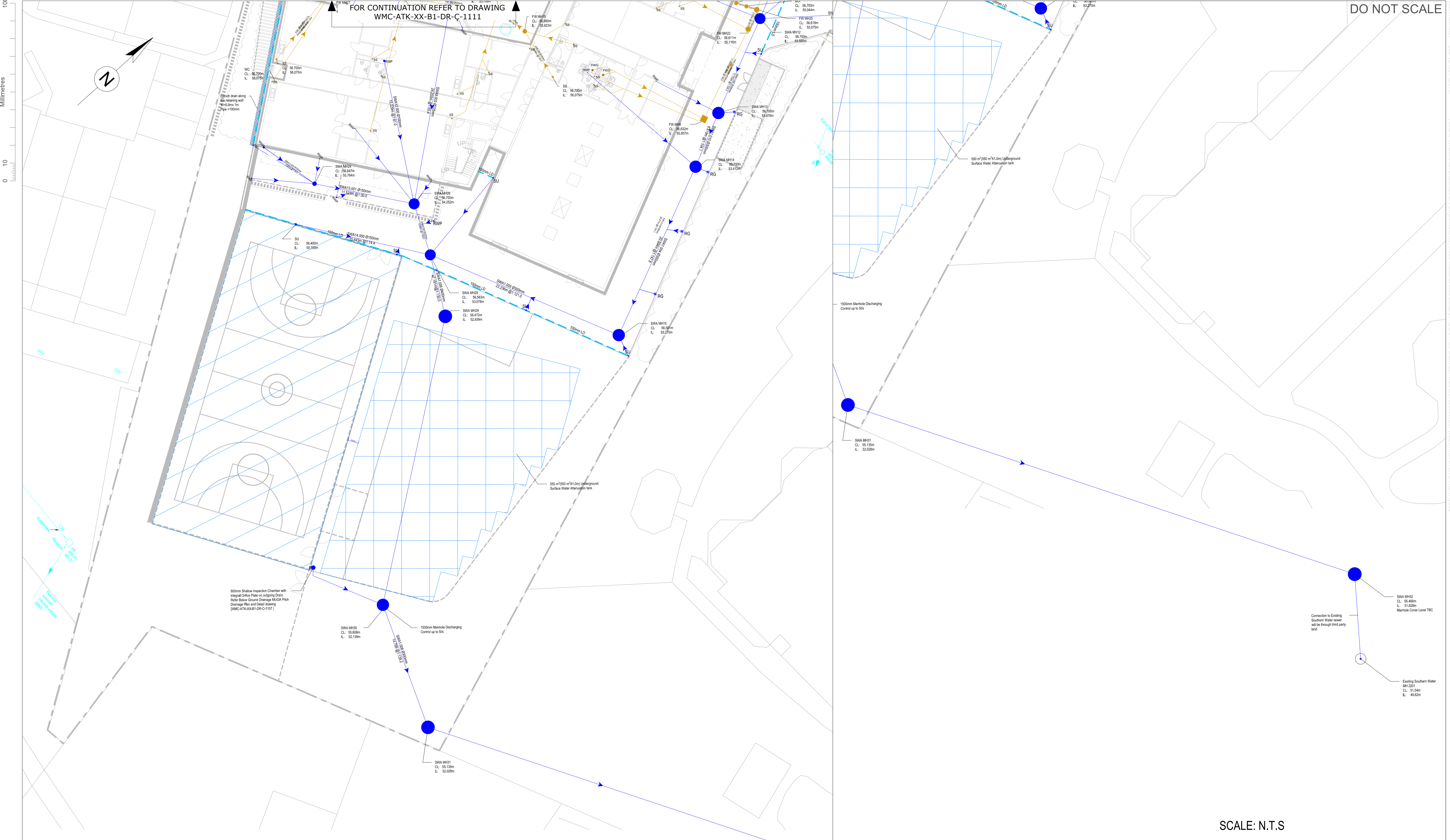
Project Title: **WOODLANDS MEED COLLEGE**

Drawing Title: **DRAINAGE LAYOUT DRAWING SHEET 4 OF 5**

Scale	Designed	Drawn	Checked	Authorised
1:1000	YA	YA	AS	BW
Original Size	Date	Date	Date	Date
A1	04/08/2021	06/08/2021	06/08/2021	06/08/2021

Drawing Number: **WMC-ATK-XX-B1-DR-C-1111**

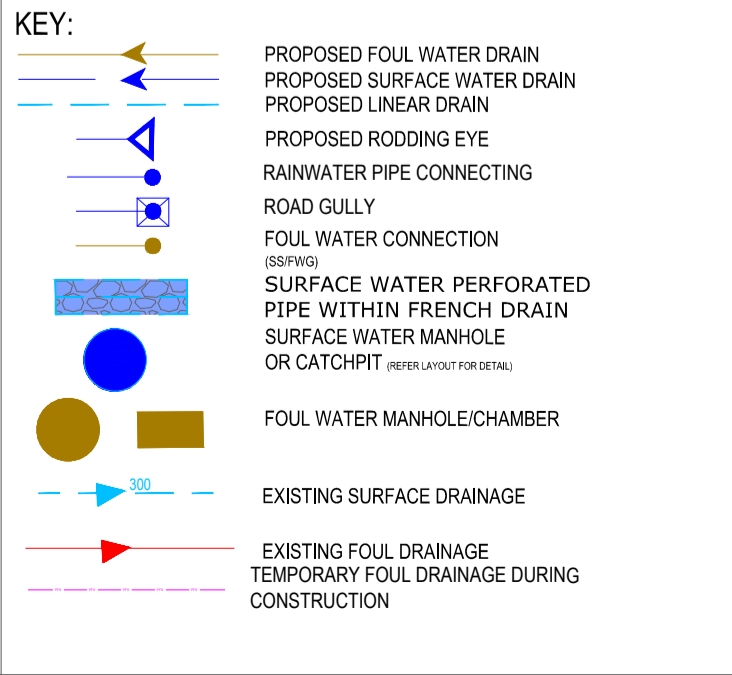
Revision: **P02**



SCALE: N.T.S

NOTE

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- FW = FOUL WATER
- SS = SOIL/SUB STACK CONNECTION
- FWG = FLOOR WASTE GULLY
- LD = LINEAR DRAIN
- AC = ACCESS CHAMBER
- IC = INSPECTION CHAMBER
- ME = MANHOLE CHAMBER
- RE = RODDING EYE (EXTERNAL)
- RWP = RAIN WATER PIPE CONNECTION
- RG = ROAD GULLY
- SW = SURFACE WATER
- SU = SUMP UNIT
- PP = PERFORATED PIPE
- CL = COVER LEVEL
- IL = INVERT LEVEL

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

CONSTRUCTION
N/A

MAINTENANCE/CLEANING
N/A

DECOMMISSIONING/DEMOLITION
N/A

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

Rev.	Date	Description	By	Chkd	App'd
03	18/10/2021	Surface water Drainage attenuation size modification	YA	BW	BW
02	29/09/2021	Surface Water Drainage Combined into one System	YA	BW	BW
01	06/08/2021	For WSCC Approval	YA	AS	BW

Rev.	Date	Description	By	Chkd	App'd
03	18/10/2021	Surface water Drainage attenuation size modification	YA	BW	BW
02	29/09/2021	Surface Water Drainage Combined into one System	YA	BW	BW
01	06/08/2021	For WSCC Approval	YA	AS	BW

Drawing Status: **FOR APPROVAL**

Suitability: **S04**

Project Title: **WOODLANDS MEED COLLEGE**

Drawing Title: **DRAINAGE LAYOUT DRAWING SHEET 5 OF 5**

Scale: 1:1000

Designed: YA

Drawn: YA

Checked: AS

Authorised: BW

Original Size: A1

Date: 04/08/2021

Date: 06/08/2021

Date: 06/08/2021

Date: 06/08/2021

Drawing Number: **WMC-ATK-XX-B1-DR-C-1112**

Revision: **P02**

Client: **west sussex county council**


Member of the SNC-Lavalin Group

SNC-LAVALIN

ATKINS

The Hub
500 Park Avenue
Aztec West
Bristol
BS32 4RZ
Tel: +44 (0)1454 662000
Fax: +44 (0)1454 663333
www.atkinsglobal.com
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Storage Structures for SYSTEM A (Combined)

Cellular Storage Manhole: SWA10, DS/PN: SWA8.000

Invert Level (m) 55.500 Safety Factor 1.0
 Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.30
 Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	1925.0	1925.0	0.301	0.0	1925.0
0.300	1925.0	1925.0			

Tank or Pond Manhole: SWA39, DS/PN: SWA1.007


Invert Level (m) 52.939

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.000	550.0	1.000	550.0	1.001	0.0

Cellular Storage Manhole: SWA27, DS/PN: SWA15.000

Invert Level (m) 55.970 Safety Factor 1.0
 Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.30
 Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	0.0	684.5	0.450	684.5	684.5
0.370	684.5	684.5	0.451	0.0	684.5

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Summary Wizard of 15 minute 2 year Summer I+0% for SYSTEM A (Combined)

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
Hot Start Level (mm) 0 Inlet Coefficient 0.800
Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 3 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH
FEH Rainfall Version 2013
Site Location GB 532126 118322 TQ 32126 18322
Data Type Point
Cv (Summer) 1.000
Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720,
960, 1440, 2160, 2880, 4320, 5760
Return Period(s) (years) 2, 30
Climate Change (%) 0, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Flow / Overflow Cap.	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow (l/s)				
SWA1.000	SWA11	18	55.717	-0.133	0.000	0.03		1.9	OK	
SWA2.000	SWA36	21	55.225	-0.075	0.000	0.15		1.1	OK	
SWA2.001	SWA37	16	55.111	-0.061	0.000	0.65		8.1	OK	
SWA3.000	SWA14	64	54.162	-0.100	0.000	0.00		0.0	OK*	
SWA2.002	SWA38	21	54.118	-0.225	0.000	0.14		11.5	OK	
SWA4.000	SWA6	64	54.401	-0.100	0.000	0.00		0.0	OK*	
SWA1.001	SWA12	23	53.936	-0.183	0.000	0.31		20.9	OK	
SWA5.000	SWA1	18	55.919	-0.086	0.000	0.05		0.3	OK	
SWA5.001	SWA2	11	55.884	-0.191	0.000	0.06		3.8	OK	
SWA5.002	SWA3	11	55.657	-0.180	0.000	0.09		6.1	OK	
SWA5.003	SWA4	13	55.396	-0.167	0.000	0.15		11.1	OK	
SWA5.004	SWA5	17	54.933	-0.166	0.000	0.15		11.0	OK	
SWA6.000	SWA7	18	56.047	-0.150	0.000	0.00		0.0	OK*	
SWA6.001	SWA7	11	55.977	-0.162	0.000	0.17		8.5	OK	

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Summary Wizard of 15 minute 2 year Summer I+0% for SYSTEM A (Combined)

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Half Drain		Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
SWA7.000	SWA8	19	56.526	-0.124	0.000	0.07		2.2	OK
SWA6.002	SWA9	11	55.638	-0.121	0.000	0.43		14.2	OK
SWA6.003	SWA10	11	55.592	-0.112	0.000	0.49		18.1	OK
SWA6.004	SWA11	13	55.435	-0.111	0.000	0.50		17.9	OK
SWA5.005	SWA7	21	54.500	-0.122	0.000	0.43		32.8	OK
SWA5.006	SWA8	21	54.254	-0.062	0.000	0.86		34.5	OK
SWA5.007	SWA9	21	54.120	-0.107	0.000	0.53		39.7	OK
SWA8.000	SWA10	34	55.335	-0.100	0.000	0.00		0.0	OK
SWA1.002	SWA12	31	53.794	-0.066	0.000	0.85		61.8	OK
SWA1.003	SWA13	33	53.735	-0.041	0.000	1.00		63.2	OK
SWA1.004	SWA14	33	53.633	-0.079	0.000	0.88		70.6	OK
SWA1.005	SWA15	33	53.488	-0.082	0.000	0.88		72.4	OK
SWA9.000	SWA16	18	56.050	-0.150	0.000	0.00		0.0	OK*
SWA9.001	SWA17	13	55.227	-0.084	0.000	0.40		8.1	OK
SWA10.000	SWA18	18	55.901	-0.106	0.000	0.19		4.7	OK
SWA9.002	SWA19	18	54.945	-0.068	0.000	0.57		14.8	OK
SWA11.000	SWA20	18	55.965	-0.135	0.000	0.02		0.6	OK
SWA9.003	SWA21	20	54.781	-0.058	0.000	0.68		15.5	OK
SWA12.000	SWA22	1	56.050	-0.150	0.000	0.00		0.0	OK*
SWA13.000	SWA23	1	56.000	-0.150	0.000	0.00		0.0	OK*
SWA13.001	SWA24	1	55.764	-0.150	0.000	0.00		0.0	OK
SWA9.004	SWA26	22	54.395	-0.082	0.000	0.72		24.9	OK
SWA14.000	SWA27	18	55.712	-0.138	0.000	0.02		0.8	OK*
SWA1.006	SWA28	50	53.301	-0.177	0.000	0.59		95.8	OK
SWA1.007	SWA39	64	53.050	-0.339	0.000	0.01		0.8	OK
SWA15.000	SWA27	19	55.007	-0.093	0.000	0.02	7	0.7	OK
SWA1.008	SWA30	63	52.163	-0.271	0.000	0.02		1.4	OK
SWA1.009	SWA31	63	52.051	-0.276	0.000	0.02		1.4	OK
SWA1.010	SWA32	63	51.648	-0.280	0.000	0.01		1.4	OK

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Summary Wizard of 30 minute 2 year Summer I+0% for SYSTEM A (Combined)

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
Hot Start Level (mm) 0 Inlet Coefficient 0.800
Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 3 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH
FEH Rainfall Version 2013
Site Location GB 532126 118322 TQ 32126 18322
Data Type Point
Cv (Summer) 1.000
Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720,
960, 1440, 2160, 2880, 4320, 5760
Return Period(s) (years) 2, 30
Climate Change (%) 0, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Flow / Overflow Cap.	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow (l/s)				
SWA1.000	SWA11	15	55.718	-0.132	0.000	0.03		2.0	OK	
SWA2.000	SWA36	17	55.226	-0.074	0.000	0.15		1.1	OK	
SWA2.001	SWA37	17	55.108	-0.064	0.000	0.62		7.8	OK	
SWA3.000	SWA14	38	54.162	-0.100	0.000	0.00		0.0	OK*	
SWA2.002	SWA38	22	54.116	-0.227	0.000	0.13		11.0	OK	
SWA4.000	SWA6	38	54.401	-0.100	0.000	0.00		0.0	OK*	
SWA1.001	SWA12	24	53.934	-0.185	0.000	0.30		20.4	OK	
SWA5.000	SWA1	15	55.919	-0.086	0.000	0.05		0.3	OK	
SWA5.001	SWA2	12	55.883	-0.192	0.000	0.05		3.6	OK	
SWA5.002	SWA3	12	55.655	-0.182	0.000	0.08		5.8	OK	
SWA5.003	SWA4	15	55.394	-0.169	0.000	0.14		10.5	OK	
SWA5.004	SWA5	19	54.931	-0.168	0.000	0.14		10.4	OK	
SWA6.000	SWA7	36	56.047	-0.150	0.000	0.00		0.0	OK*	
SWA6.001	SWA7	13	55.974	-0.165	0.000	0.16		8.1	OK	

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Summary Wizard of 30 minute 2 year Summer I+0% for SYSTEM A (Combined)

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Half Drain		Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
SWA7.000	SWA8	15	56.527	-0.123	0.000	0.08		2.3	OK
SWA6.002	SWA9	12	55.636	-0.123	0.000	0.42		13.7	OK
SWA6.003	SWA10	12	55.589	-0.115	0.000	0.48		17.4	OK
SWA6.004	SWA11	14	55.433	-0.114	0.000	0.49		17.4	OK
SWA5.005	SWA7	22	54.498	-0.124	0.000	0.42		31.5	OK
SWA5.006	SWA8	22	54.249	-0.068	0.000	0.83		33.2	OK
SWA5.007	SWA9	22	54.117	-0.110	0.000	0.51		38.2	OK
SWA8.000	SWA10	36	55.335	-0.100	0.000	0.00		0.0	OK
SWA1.002	SWA12	33	53.782	-0.078	0.000	0.85		61.4	OK
SWA1.003	SWA13	34	53.723	-0.052	0.000	1.00		63.2	OK
SWA1.004	SWA14	34	53.632	-0.080	0.000	0.88		70.6	OK
SWA1.005	SWA15	34	53.488	-0.082	0.000	0.88		72.3	OK
SWA9.000	SWA16	36	56.050	-0.150	0.000	0.00		0.0	OK*
SWA9.001	SWA17	15	55.224	-0.087	0.000	0.37		7.6	OK
SWA10.000	SWA18	15	55.902	-0.105	0.000	0.20		5.0	OK
SWA9.002	SWA19	19	54.944	-0.069	0.000	0.56		14.7	OK
SWA11.000	SWA20	15	55.965	-0.135	0.000	0.02		0.7	OK
SWA9.003	SWA21	21	54.780	-0.059	0.000	0.68		15.4	OK
SWA12.000	SWA22	34	56.050	-0.150	0.000	0.00		0.0	OK*
SWA13.000	SWA23	34	56.000	-0.150	0.000	0.00		0.0	OK*
SWA13.001	SWA24	34	55.764	-0.150	0.000	0.00		0.0	OK
SWA9.004	SWA26	23	54.392	-0.085	0.000	0.70		24.3	OK
SWA14.000	SWA27	15	55.712	-0.138	0.000	0.02		0.8	OK*
SWA1.006	SWA28	49	53.301	-0.176	0.000	0.60		96.1	OK
SWA1.007	SWA39	61	53.084	-0.305	0.000	0.01		1.0	OK
SWA15.000	SWA27	15	55.008	-0.092	0.000	0.02	7	0.7	OK
SWA1.008	SWA30	56	52.165	-0.269	0.000	0.02		1.5	OK
SWA1.009	SWA31	55	52.054	-0.274	0.000	0.02		1.5	OK
SWA1.010	SWA32	56	51.650	-0.278	0.000	0.02		1.5	OK

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Summary Wizard of 60 minute 2 year Summer I+0% for SYSTEM A (Combined)

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
Hot Start Level (mm) 0 Inlet Coefficient 0.800
Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 3 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FEH
FEH Rainfall Version 2013
Site Location GB 532126 118322 TQ 32126 18322
Data Type Point
Cv (Summer) 1.000
Cv (Winter) 1.000


Margin for Flood Risk Warning (mm) 300.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720,
960, 1440, 2160, 2880, 4320, 5760
Return Period(s) (years) 2, 30
Climate Change (%) 0, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Flow / Overflow Cap.	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m³)	Flow (l/s)				
SWA1.000	SWA11	17	55.717	-0.133	0.000	0.03		1.9	OK	
SWA2.000	SWA36	19	55.225	-0.075	0.000	0.15		1.1	OK	
SWA2.001	SWA37	22	55.097	-0.075	0.000	0.50		6.3	OK	
SWA3.000	SWA14	37	54.162	-0.100	0.000	0.00		0.0	OK*	
SWA2.002	SWA38	27	54.108	-0.235	0.000	0.11		8.8	OK	
SWA4.000	SWA6	37	54.401	-0.100	0.000	0.00		0.0	OK*	
SWA1.001	SWA12	30	53.921	-0.198	0.000	0.25		16.7	OK	
SWA5.000	SWA1	17	55.919	-0.086	0.000	0.05		0.3	OK	
SWA5.001	SWA2	17	55.879	-0.195	0.000	0.04		2.9	OK	
SWA5.002	SWA3	17	55.649	-0.188	0.000	0.07		4.6	OK	
SWA5.003	SWA4	19	55.387	-0.175	0.000	0.11		8.2	OK	
SWA5.004	SWA5	23	54.925	-0.175	0.000	0.11		8.3	OK	
SWA6.000	SWA7	37	56.047	-0.150	0.000	0.00		0.0	OK*	
SWA6.001	SWA7	17	55.967	-0.172	0.000	0.13		6.4	OK	

Summary Wizard of 60 minute 2 year Summer I+0% for SYSTEM A (Combined)

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Half Drain		Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
SWA7.000	SWA8	17	56.526	-0.124	0.000	0.07		2.2	OK
SWA6.002	SWA9	17	55.624	-0.135	0.000	0.34		11.2	OK
SWA6.003	SWA10	17	55.576	-0.128	0.000	0.39		14.1	OK
SWA6.004	SWA11	19	55.420	-0.127	0.000	0.40		14.1	OK
SWA5.005	SWA7	27	54.486	-0.135	0.000	0.33		25.4	OK
SWA5.006	SWA8	27	54.227	-0.089	0.000	0.67		26.8	OK
SWA5.007	SWA9	27	54.104	-0.124	0.000	0.41		30.8	OK
SWA8.000	SWA10	37	55.335	-0.100	0.000	0.00		0.0	OK
SWA1.002	SWA12	37	53.747	-0.112	0.000	0.70		50.8	OK
SWA1.003	SWA13	37	53.688	-0.088	0.000	0.84		52.9	OK
SWA1.004	SWA14	37	53.607	-0.105	0.000	0.74		59.1	OK
SWA1.005	SWA15	37	53.463	-0.107	0.000	0.74		61.0	OK
SWA9.000	SWA16	37	56.050	-0.150	0.000	0.00		0.0	OK*
SWA9.001	SWA17	19	55.216	-0.095	0.000	0.29		5.9	OK
SWA10.000	SWA18	17	55.901	-0.106	0.000	0.19		4.7	OK
SWA9.002	SWA19	24	54.936	-0.077	0.000	0.47		12.3	OK
SWA11.000	SWA20	17	55.965	-0.135	0.000	0.02		0.7	OK
SWA9.003	SWA21	26	54.771	-0.068	0.000	0.57		12.9	OK
SWA12.000	SWA22	35	56.050	-0.150	0.000	0.00		0.0	OK*
SWA13.000	SWA23	35	56.000	-0.150	0.000	0.00		0.0	OK*
SWA13.001	SWA24	35	55.764	-0.150	0.000	0.00		0.0	OK
SWA9.004	SWA26	28	54.375	-0.102	0.000	0.57		19.9	OK
SWA14.000	SWA27	17	55.712	-0.138	0.000	0.02		0.8	OK*
SWA1.006	SWA28	55	53.280	-0.198	0.000	0.51		81.6	OK
SWA1.007	SWA39	60	53.119	-0.270	0.000	0.01		1.1	OK
SWA15.000	SWA27	17	55.008	-0.092	0.000	0.02	8	0.7	OK
SWA1.008	SWA30	52	52.165	-0.269	0.000	0.02		1.5	OK
SWA1.009	SWA31	56	52.054	-0.274	0.000	0.02		1.5	OK
SWA1.010	SWA32	54	51.651	-0.278	0.000	0.02		1.5	OK

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Summary Wizard of 15 minute 30 year Summer I+40% for SYSTEM A (Combined)

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
Hot Start Level (mm) 0 Inlet Coefficient 0.800
Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 3 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FEH
FEH Rainfall Version 2013
Site Location GB 532126 118322 TQ 32126 18322
Data Type Point
Cv (Summer) 1.000
Cv (Winter) 1.000


Margin for Flood Risk Warning (mm) 300.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720,
960, 1440, 2160, 2880, 4320, 5760
Return Period(s) (years) 2, 30
Climate Change (%) 0, 40

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m³)	Flow	Overflow				
SWA1.000	SWA11	5	55.731	-0.119	0.000	0.10			5.8	OK	
SWA2.000	SWA36	2	55.772	0.472	0.000	0.59			4.3	SURCHARGED	
SWA2.001	SWA37	2	55.743	0.571	0.000	2.40			30.3	FLOOD RISK	
SWA3.000	SWA14	16	54.262	0.000	0.000	0.66			3.3	SURCHARGED*	
SWA2.002	SWA38	2	55.635	1.292	0.000	0.32			26.6	FLOOD RISK	
SWA4.000	SWA6	16	54.501	0.000	0.000	0.17			3.3	SURCHARGED*	
SWA1.001	SWA12	2	55.607	1.488	0.000	0.65			44.4	SURCHARGED	
SWA5.000	SWA1	1	56.532	0.527	0.000	0.71			4.7	FLOOD RISK	
SWA5.001	SWA2	1	56.530	0.456	0.000	0.22			14.9	FLOOD RISK	
SWA5.002	SWA3	1	56.520	0.684	0.000	0.34			23.8	FLOOD RISK	
SWA5.003	SWA4	1	56.501	0.939	0.000	0.55			40.7	FLOOD RISK	
SWA5.004	SWA5	1	56.456	1.357	0.000	0.41			29.9	FLOOD RISK	
SWA6.000	SWA7	1	56.197	0.000	0.000	0.19			3.5	SURCHARGED*	
SWA6.001	SWA7	1	56.695	0.557	0.000	0.58			29.1	FLOOD RISK	

Summary Wizard of 15 minute 30 year Summer I+40% for SYSTEM A (Combined)

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
SWA7.000	SWA8	1	56.708	0.058	0.000	0.25		7.7	SURCHARGED
SWA6.002	SWA9	1	56.701	0.942	0.000	1.12		37.0	SURCHARGED
SWA6.003	SWA10	1	56.676	0.973	0.000	1.40		51.2	SURCHARGED
SWA6.004	SWA11	1	56.500	0.953	0.000	1.29		46.0	SURCHARGED
SWA5.005	SWA7	1	56.419	1.798	0.000	0.89		67.6	FLOOD RISK
SWA5.006	SWA8	1	56.200	1.884	0.000	1.76		70.2	SURCHARGED
SWA5.007	SWA9	1	55.950	1.723	0.000	1.09		81.0	SURCHARGED
SWA8.000	SWA10	1	55.496	0.061	0.000	0.05	2	0.3	SURCHARGED
SWA1.002	SWA12	1	55.505	1.646	0.000	1.83		133.1	SURCHARGED
SWA1.003	SWA13	3	55.220	1.444	0.000	2.21		139.5	SURCHARGED
SWA1.004	SWA14	7	54.922	1.210	0.000	1.97		157.6	SURCHARGED
SWA1.005	SWA15	11	54.355	0.785	0.000	1.96		162.1	SURCHARGED
SWA9.000	SWA16	1	56.200	0.000	0.000	0.06		2.7	SURCHARGED*
SWA9.001	SWA17	1	56.632	1.321	0.000	1.05		21.5	FLOOD RISK
SWA10.000	SWA18	2	56.380	0.373	0.000	0.74		18.8	FLOOD RISK
SWA9.002	SWA19	2	56.305	1.292	0.000	1.45		37.9	SURCHARGED
SWA11.000	SWA20	5	55.975	-0.125	0.000	0.06		2.0	OK
SWA9.003	SWA21	2	55.930	1.091	0.000	1.76		40.0	SURCHARGED
SWA12.000	SWA22	49	56.050	-0.150	0.000	0.00		0.0	OK*
SWA13.000	SWA23	49	56.000	-0.150	0.000	0.00		0.0	OK*
SWA13.001	SWA24	49	55.764	-0.150	0.000	0.00		0.0	OK
SWA9.004	SWA26	9	54.691	0.214	0.000	2.10		72.7	SURCHARGED
SWA14.000	SWA27	5	55.722	-0.128	0.000	0.05		2.4	OK*
SWA1.006	SWA28	27	53.614	0.136	0.000	1.44		231.6	SURCHARGED
SWA1.007	SWA39	49	53.286	-0.103	0.000	0.01		1.6	OK
SWA15.000	SWA27	5	55.014	-0.086	0.000	0.05	9	2.2	OK
SWA1.008	SWA30	17	52.176	-0.258	0.000	0.05		3.3	OK
SWA1.009	SWA31	17	52.066	-0.262	0.000	0.04		3.3	OK
SWA1.010	SWA32	17	51.664	-0.264	0.000	0.03		3.3	OK

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Summary Wizard of 30 minute 30 year Summer I+40% for SYSTEM A (Combined)

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
Hot Start Level (mm) 0 Inlet Coefficient 0.800
Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 3 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH
FEH Rainfall Version 2013
Site Location GB 532126 118322 TQ 32126 18322
Data Type Point
Cv (Summer) 1.000
Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON


Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720,
960, 1440, 2160, 2880, 4320, 5760
Return Period(s) (years) 2, 30
Climate Change (%) 0, 40

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m³)	Flow	Overflow				
SWA1.000	SWA11	1	55.732	-0.118	0.000	0.10		6.2		OK	
SWA2.000	SWA36	1	55.784	0.484	0.000	0.62		4.5		SURCHARGED	
SWA2.001	SWA37	1	55.746	0.574	0.000	2.19		27.6		FLOOD RISK	
SWA3.000	SWA14	15	54.262	0.000	0.000	0.57		2.8		SURCHARGED*	
SWA2.002	SWA38	1	55.637	1.294	0.000	0.30		25.0		FLOOD RISK	
SWA4.000	SWA6	15	54.501	0.000	0.000	0.12		2.4		SURCHARGED*	
SWA1.001	SWA12	1	55.607	1.488	0.000	0.67		45.6		SURCHARGED	
SWA5.000	SWA1	2	56.516	0.511	0.000	0.68		4.4		FLOOD RISK	
SWA5.001	SWA2	2	56.515	0.441	0.000	0.20		13.7		FLOOD RISK	
SWA5.002	SWA3	2	56.506	0.669	0.000	0.29		19.9		FLOOD RISK	
SWA5.003	SWA4	2	56.489	0.927	0.000	0.48		35.8		FLOOD RISK	
SWA5.004	SWA5	2	56.446	1.347	0.000	0.37		26.7		FLOOD RISK	
SWA6.000	SWA7	5	56.197	0.000	0.000	0.17		3.1		SURCHARGED*	
SWA6.001	SWA7	2	56.695	0.556	0.000	0.53		26.5		FLOOD RISK	

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Summary Wizard of 30 minute 30 year Summer I+40% for SYSTEM A (Combined)

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Half Drain		Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
SWA7.000	SWA8	2	56.673	0.023	0.000	0.28		8.6	SURCHARGED
SWA6.002	SWA9	2	56.660	0.901	0.000	1.12		36.9	SURCHARGED
SWA6.003	SWA10	2	56.631	0.928	0.000	1.34		48.9	SURCHARGED
SWA6.004	SWA11	2	56.478	0.931	0.000	1.21		43.0	SURCHARGED
SWA5.005	SWA7	2	56.403	1.782	0.000	0.88		66.3	FLOOD RISK
SWA5.006	SWA8	2	56.179	1.862	0.000	1.75		69.8	SURCHARGED
SWA5.007	SWA9	2	55.917	1.689	0.000	1.07		79.8	SURCHARGED
SWA8.000	SWA10	2	55.486	0.051	0.000	0.04	3	0.2	SURCHARGED
SWA1.002	SWA12	2	55.489	1.630	0.000	1.85		134.0	SURCHARGED
SWA1.003	SWA13	5	55.208	1.432	0.000	2.21		139.6	SURCHARGED
SWA1.004	SWA14	8	54.909	1.197	0.000	1.97		157.3	SURCHARGED
SWA1.005	SWA15	12	54.350	0.781	0.000	1.97		162.4	SURCHARGED
SWA9.000	SWA16	4	56.200	0.000	0.000	0.05		2.3	SURCHARGED*
SWA9.001	SWA17	2	56.565	1.254	0.000	0.96		19.6	FLOOD RISK
SWA10.000	SWA18	1	56.407	0.400	0.000	0.76		19.3	FLOOD RISK
SWA9.002	SWA19	1	56.311	1.298	0.000	1.45		37.9	SURCHARGED
SWA11.000	SWA20	1	55.975	-0.125	0.000	0.07		2.2	OK
SWA9.003	SWA21	1	55.941	1.102	0.000	1.77		40.1	SURCHARGED
SWA12.000	SWA22	50	56.050	-0.150	0.000	0.00		0.0	OK*
SWA13.000	SWA23	50	56.000	-0.150	0.000	0.00		0.0	OK*
SWA13.001	SWA24	50	55.764	-0.150	0.000	0.00		0.0	OK
SWA9.004	SWA26	11	54.654	0.177	0.000	2.00		69.5	SURCHARGED
SWA14.000	SWA27	1	55.722	-0.128	0.000	0.05		2.6	OK*
SWA1.006	SWA28	28	53.605	0.127	0.000	1.42		229.6	SURCHARGED
SWA1.007	SWA39	30	53.396	0.007	0.000	0.01		1.8	SURCHARGED
SWA15.000	SWA27	1	55.015	-0.085	0.000	0.05	10	2.4	OK
SWA1.008	SWA30	10	52.179	-0.255	0.000	0.05		3.7	OK
SWA1.009	SWA31	10	52.068	-0.259	0.000	0.04		3.7	OK
SWA1.010	SWA32	10	51.666	-0.262	0.000	0.04		3.7	OK

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Summary Wizard of 60 minute 30 year Summer I+40% for SYSTEM A (Combined)

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
Hot Start Level (mm) 0 Inlet Coefficient 0.800
Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 3 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FEH
FEH Rainfall Version 2013
Site Location GB 532126 118322 TQ 32126 18322
Data Type Point
Cv (Summer) 1.000
Cv (Winter) 1.000


Margin for Flood Risk Warning (mm) 300.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720,
960, 1440, 2160, 2880, 4320, 5760
Return Period(s) (years) 2, 30
Climate Change (%) 0, 40

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Time (mins)	Flow (l/s)	
SWA1.000	SWA11	3	55.732	-0.118	0.000	0.10		6.0	OK	
SWA2.000	SWA36	7	55.415	0.115	0.000	0.52		3.8	SURCHARGED	
SWA2.001	SWA37	7	55.377	0.205	0.000	1.68		21.2	SURCHARGED	
SWA3.000	SWA14	14	54.262	0.000	0.000	0.50		2.4	SURCHARGED*	
SWA2.002	SWA38	7	55.288	0.945	0.000	0.27		22.3	SURCHARGED	
SWA4.000	SWA6	14	54.501	0.000	0.000	0.11		2.2	SURCHARGED*	
SWA1.001	SWA12	7	55.263	1.144	0.000	0.62		42.5	SURCHARGED	
SWA5.000	SWA1	5	56.055	0.050	0.000	0.33		2.2	SURCHARGED	
SWA5.001	SWA2	5	56.053	-0.022	0.000	0.15		10.1	OK	
SWA5.002	SWA3	5	56.044	0.208	0.000	0.23		16.0	SURCHARGED	
SWA5.003	SWA4	5	56.029	0.466	0.000	0.34		25.0	SURCHARGED	
SWA5.004	SWA5	5	55.991	0.891	0.000	0.32		22.9	SURCHARGED	
SWA6.000	SWA7	4	56.197	0.000	0.000	0.06		1.0	SURCHARGED*	
SWA6.001	SWA7	5	56.228	0.089	0.000	0.45		22.5	SURCHARGED	

Summary Wizard of 60 minute 30 year Summer I+40% for SYSTEM A (Combined)

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (l/s)	Flow / Cap. (l/s)	Overflow (l/s)			
SWA7.000	SWA8	5	56.549	-0.101	0.000	0.23			7.1	OK	
SWA6.002	SWA9	5	56.189	0.430	0.000	1.00			33.1	SURCHARGED	
SWA6.003	SWA10	5	56.162	0.458	0.000	1.16			42.3	SURCHARGED	
SWA6.004	SWA11	5	56.019	0.472	0.000	1.07			38.3	SURCHARGED	
SWA5.005	SWA7	5	55.951	1.330	0.000	0.81			61.1	SURCHARGED	
SWA5.006	SWA8	5	55.755	1.438	0.000	1.62			64.7	SURCHARGED	
SWA5.007	SWA9	5	55.534	1.306	0.000	0.99			73.9	SURCHARGED	
SWA8.000	SWA10	51	55.335	-0.100	0.000	0.00			0.0	OK	
SWA1.002	SWA12	10	55.168	1.308	0.000	1.71			124.2	SURCHARGED	
SWA1.003	SWA13	11	54.924	1.149	0.000	2.04			128.8	SURCHARGED	
SWA1.004	SWA14	13	54.665	0.953	0.000	1.81			145.0	SURCHARGED	
SWA1.005	SWA15	15	54.191	0.621	0.000	1.81			149.6	SURCHARGED	
SWA9.000	SWA16	5	56.169	-0.031	0.000	0.02			0.8	OK*	
SWA9.001	SWA17	5	56.198	0.887	0.000	0.81			16.5	SURCHARGED	
SWA10.000	SWA18	5	56.092	0.085	0.000	0.65			16.4	SURCHARGED	
SWA9.002	SWA19	5	56.006	0.993	0.000	1.33			34.6	SURCHARGED	
SWA11.000	SWA20	3	55.975	-0.125	0.000	0.07			2.1	OK	
SWA9.003	SWA21	5	55.694	0.855	0.000	1.61			36.7	SURCHARGED	
SWA12.000	SWA22	51	56.050	-0.150	0.000	0.00			0.0	OK*	
SWA13.000	SWA23	51	56.000	-0.150	0.000	0.00			0.0	OK*	
SWA13.001	SWA24	51	55.764	-0.150	0.000	0.00			0.0	OK	
SWA9.004	SWA26	13	54.584	0.107	0.000	1.68			58.3	SURCHARGED	
SWA14.000	SWA27	3	55.722	-0.128	0.000	0.05			2.5	OK*	
SWA1.006	SWA28	31	53.557	0.080	0.000	1.29			208.6	SURCHARGED	
SWA1.007	SWA39	28	53.516	0.127	0.000	0.01			2.0	SURCHARGED	
SWA15.000	SWA27	3	55.014	-0.086	0.000	0.05		14	2.3	OK	
SWA1.008	SWA30	8	52.179	-0.255	0.000	0.05			3.7	OK	
SWA1.009	SWA31	8	52.068	-0.259	0.000	0.04			3.7	OK	
SWA1.010	SWA32	9	51.666	-0.262	0.000	0.04			3.7	OK	

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Storage Structures for SYSTEM A (Combined)

Cellular Storage Manhole: SWA10, DS/PN: SWA8.000

Invert Level (m) 55.500 Safety Factor 1.0
 Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.30
 Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	1925.0	1925.0	0.301	0.0	1925.0
0.300	1925.0	1925.0			

Tank or Pond Manhole: SWA39, DS/PN: SWA1.007


Invert Level (m) 52.939

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.000	550.0	1.000	550.0	1.001	0.0

Cellular Storage Manhole: SWA27, DS/PN: SWA15.000

Invert Level (m) 55.970 Safety Factor 1.0
 Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.30
 Infiltration Coefficient Side (m/hr) 0.00000


Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	0.0	684.5	0.450	684.5	684.5
0.370	684.5	684.5	0.451	0.0	684.5

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Volume Summary (Static)

Length Calculations based on Centre-Centre

Pipe Number	USMH Name	Storage	Total
		Structure Volume (m ³)	Volume (m ³)
SWA1.000	SWA11	0.000	0.000
SWA2.000	SWA36	0.000	0.000
SWA2.001	SWA37	0.000	0.000
SWA3.000	SWA14	0.000	0.000
SWA2.002	SWA38	0.000	0.000
SWA4.000	SWA6	0.000	0.000
SWA1.001	SWA12	0.000	0.000
SWA5.000	SWA1	0.000	0.000
SWA5.001	SWA2	0.000	0.000
SWA5.002	SWA3	0.000	0.000
SWA5.003	SWA4	0.000	0.000
SWA5.004	SWA5	0.000	0.000
SWA6.000	SWA7	0.000	0.000
SWA6.001	SWA7	0.000	0.000
SWA7.000	SWA8	0.000	0.000
SWA6.002	SWA9	0.000	0.000
SWA6.003	SWA10	0.000	0.000
SWA6.004	SWA11	0.000	0.000
SWA5.005	SWA7	0.000	0.000
SWA5.006	SWA8	0.000	0.000
SWA5.007	SWA9	0.000	0.000
SWA8.000	SWA10	173.443	173.443
SWA1.002	SWA12	0.000	0.000
SWA1.003	SWA13	0.000	0.000
SWA1.004	SWA14	0.000	0.000
SWA1.005	SWA15	0.000	0.000
SWA9.000	SWA16	0.000	0.000
SWA9.001	SWA17	0.000	0.000
SWA10.000	SWA18	0.000	0.000
SWA9.002	SWA19	0.000	0.000
SWA11.000	SWA20	0.000	0.000
SWA9.003	SWA21	0.000	0.000
SWA12.000	SWA22	0.000	0.000
SWA13.000	SWA23	0.000	0.000
SWA13.001	SWA24	0.000	0.000
SWA9.004	SWA26	0.000	0.000
SWA14.000	SWA27	0.000	0.000
SWA1.006	SWA28	0.000	0.000
SWA1.007	SWA39	550.183	550.183
SWA15.000	SWA27	41.823	41.823
SWA1.008	SWA30	0.000	0.000
SWA1.009	SWA31	0.000	0.000
SWA1.010	SWA32	0.000	0.000

Atkins (Epsom)		Page 3
Woodcoste Grove Ashley Road, Epsom Surrey, KT18 5BW		
Date 13/10/2021 12:09 File RE07 SURFACE WATER DESIG...	Designed by ADER4601 Checked by	
Innovyze	Network 2020.1.3	

Volume Summary (Static)

Storage			
Pipe	USMH	Structure	Total
Number	Name	Volume (m³)	Volume (m³)
Total		765.449	765.449