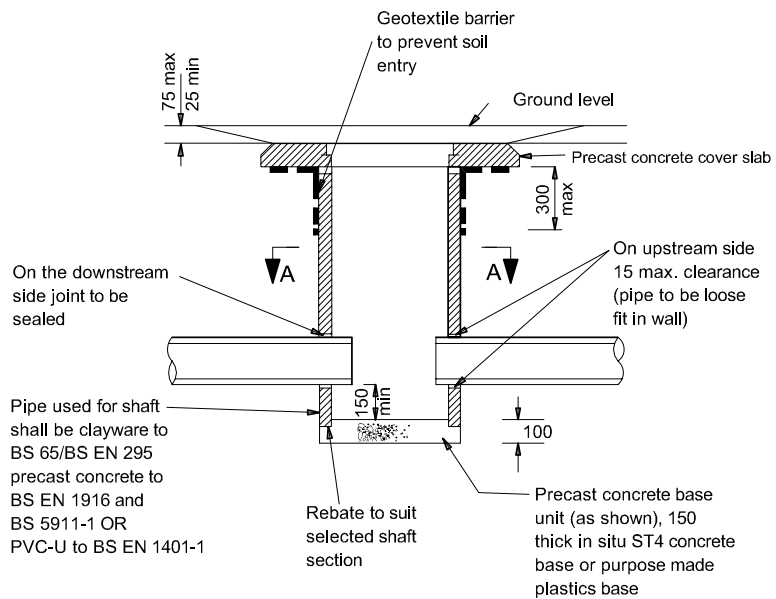
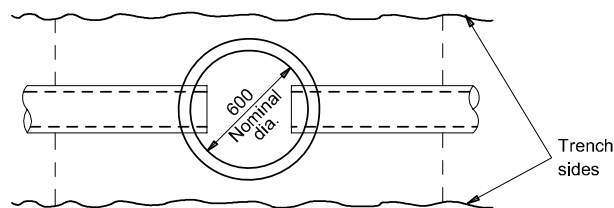


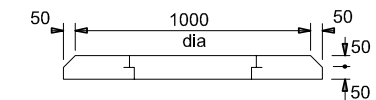
F	MAY 06	FOR PIPES 450 MAX. DIAMETER
E	NOV 04	
D	NOV 03	TYPE 7 CHAMBER (1050 CATCHPIT)
C	MAY 01	
B	APR 94	
A	DEC 91	
Issue	Date	



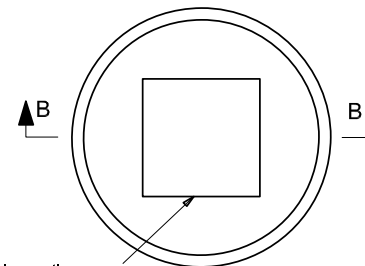
SECTION THROUGH CATCHPIT



SECTION A-A

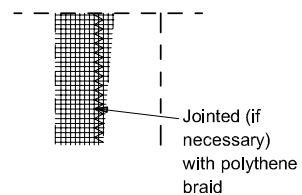


SECTION B-B

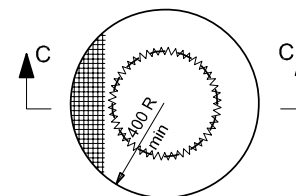


Rectangular or circular grating.

DETAILS OF COVER SLAB



SECTION C-C



PLAN

DETAILS OF GEOTEXTILE BARRIER

NOTE

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. Gully top shall comply with BS EN 124 unless otherwise stated in Appendix 5/1. Grating to have minimum waterway area of 0.125 m<sup>2</sup> and to withstand BS EN 124 test load, described in Appendix 5/1.
3. Invert details are shown on the Drawings or Appendix 5/1.
4. Purpose made plastics upper sections with pre-fitted gratings to Note 2 may be used. Plastics upper sections shall be surrounded with ST4 concrete to SHW, Clause 2602. Dimensions shown for precast slab.
5. Sub-Clause 507.15 of the SHW need not be applied.

F	MAY 06
E	NOV 04
D	NOV 03
C	MAY 01
B	MAR 98
A	DEC 91
Issue	Date

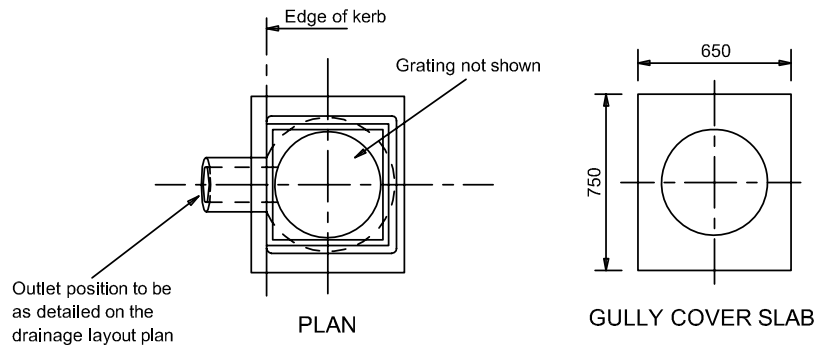
HIGHWAY CONSTRUCTION DETAILS

DRAINAGE

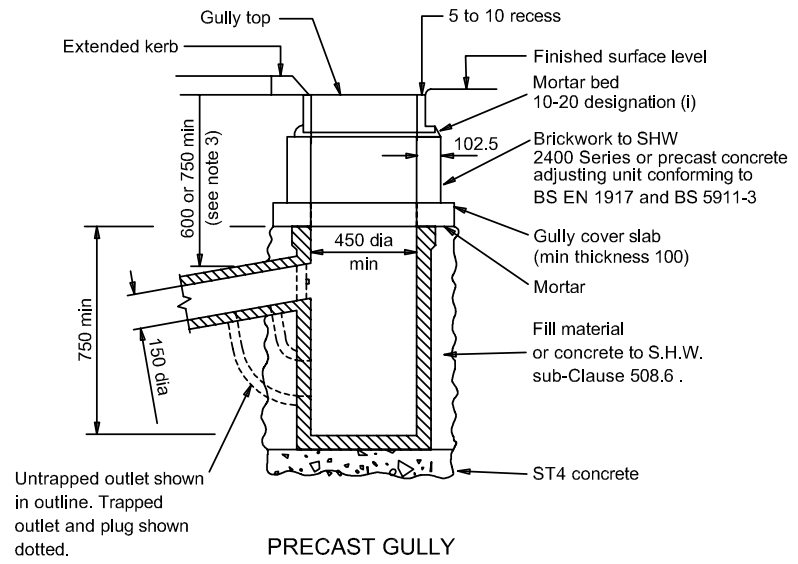
TYPE 8 CHAMBER  
(600 CATCHPIT)

Drawing No.

F12

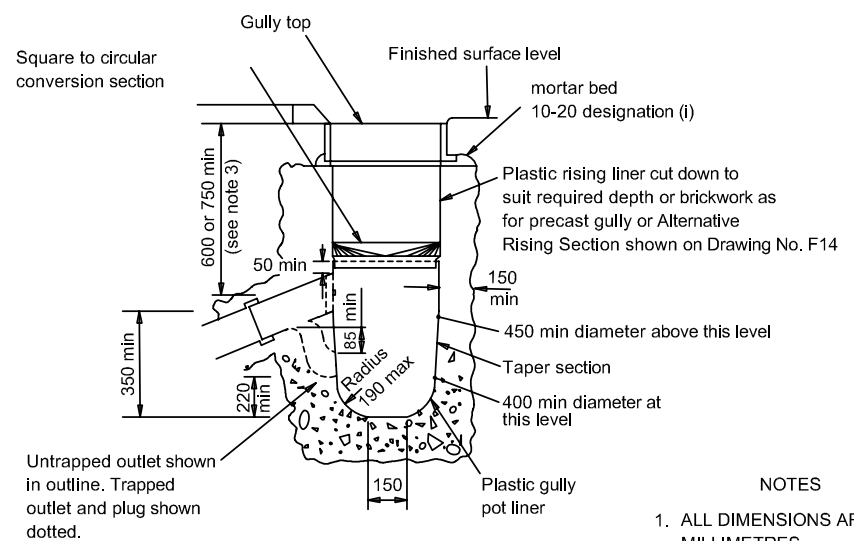


Outlet position to be as detailed on the drainage layout plan



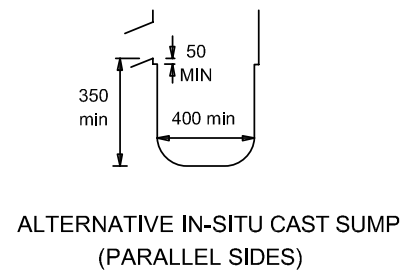
Untrapped outlet shown in outline. Trapped outlet and plug shown dotted.

PRECAST GULLY



Untrapped outlet shown in outline. Trapped outlet and plug shown dotted.

IN-SITU CAST GULLY



ALTERNATIVE IN-SITU CAST SUMP (PARALLEL SIDES)

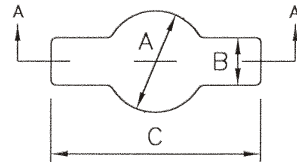
NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. For details of gully top, see Appendix 5/1.
3. The minimum depth from the top of the grating to the top of the gully outlet is to be 750 when the connecting pipe is under a carriageway or a hard shoulder and 600 elsewhere.
4. Precast concrete gullies and cover slabs shall be to BS 5911-6.
5. When an in-situ cast gully has a trap, the stoppers shall comply with the requirements of BS 5911-4 and BS EN 1917.
6. Alternative rising section shown on Drawing No. F14 may be used.
7. All ST concrete shall be to SHW, Clause 2602.

HIGHWAY CONSTRUCTION DETAILS	DRAINAGE	E	MAY 06	PRECAST AND IN-SITU CAST GULLIES	Drawing No.
		D	MAY 05		F13
		C	NOV 03		
		B	MAR 98		
		A	DEC 91		
	Issue	Date			

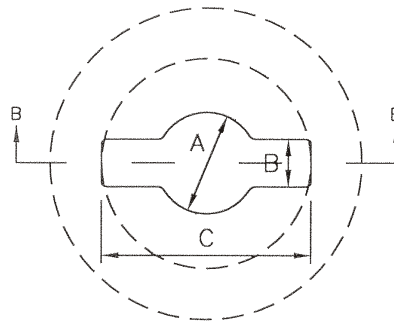
KEYWAYS:

Open

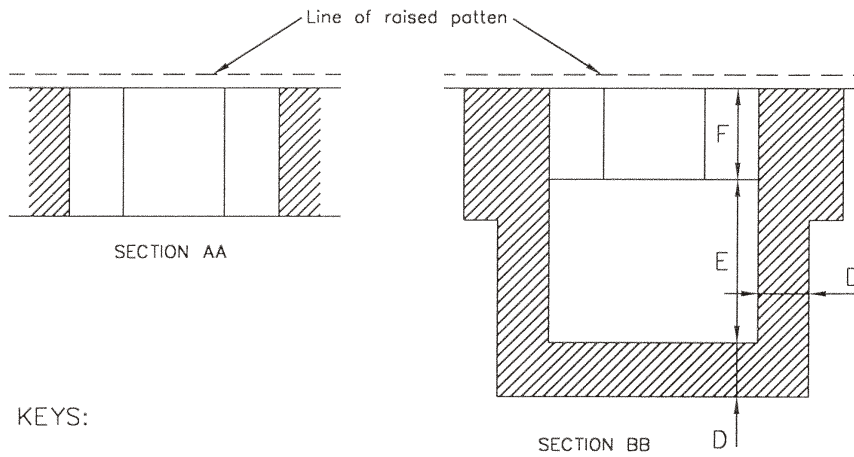


Plan

Closed



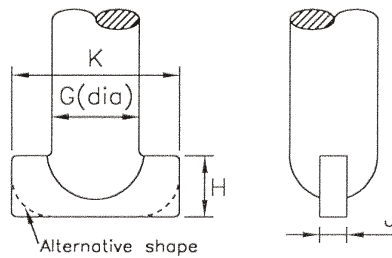
Plan



SECTION AA

SECTION BB

KEYS:



Type	Keyway						Key			
	A	B	C	D	E	F	G	H	J	K
	min./max.	min./max.	min.	min.	min.	min.				
Small	14-16	9-11	29	6	17	6	12	12	6	25
Large	22-25	9-13	44	6	35	10	20	15	6	40

All dimensions in millimetres.  
NOTE: Small key for class B125 and kerb-type gully tops; large key for class D400 and class C250 covers.

HIGHWAY CONSTRUCTION DETAILS

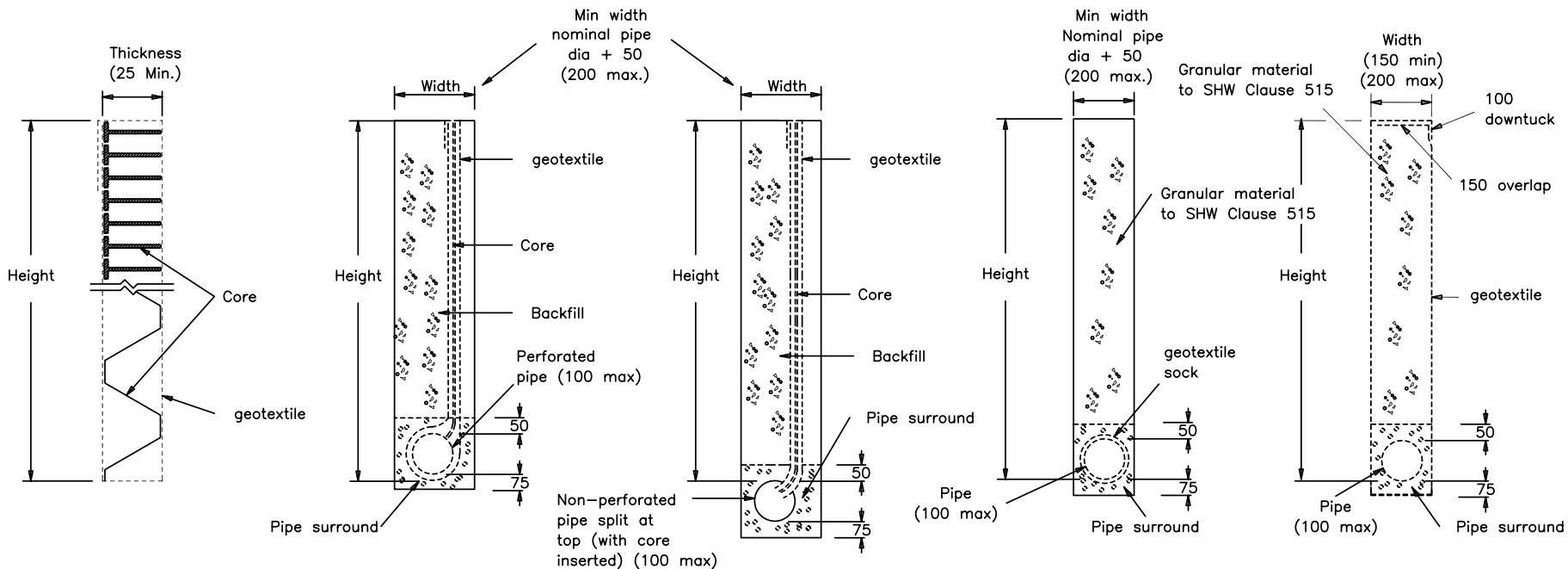
DRAINAGE

Issue	Date
A	MAR 98

DETAIL OF KEYWAYS AND KEYS  
FOR MANHOLE TOPS AND  
KERB TYPE GULLY TOPS

Drawing No.

F17



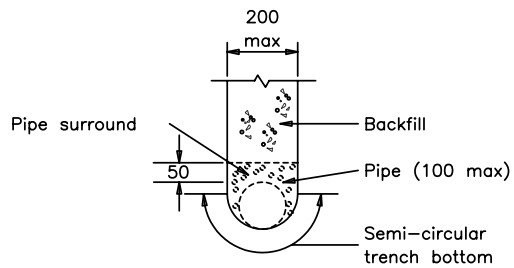
DRAIN TYPE 5

DRAIN TYPE 6

DRAIN TYPE 7

DRAIN TYPE 8

DRAIN TYPE 9



ALTERNATIVE TRENCH SHAPE  
For drain types 6, 7, 8 and 9

FIN DRAINS

Drain types 5, 6 and 7

NARROW FILTER DRAINS

Drain types 8 and 9

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. The surround material and backfill to the pipes of drain types 6 and 7 shall comply with S.H.W. Clause 514. The surround material to pipes of drain types 8 and 9 shall be the granular material used as infill to the drain.

HIGHWAY CONSTRUCTION DETAILS

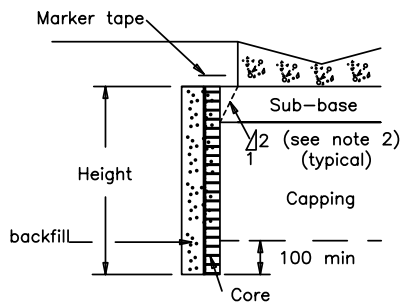
DRAINAGE

A	DEC 91
Issue	Date

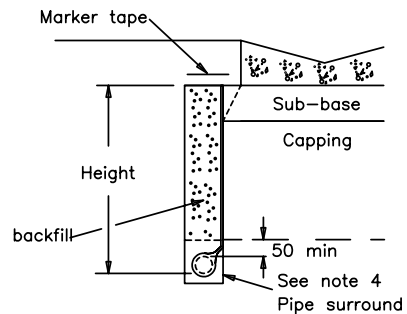
EDGE OF PAVEMENT DRAINS —  
FIN DRAINS AND  
NARROW FILTER DRAINS

Drawing No.

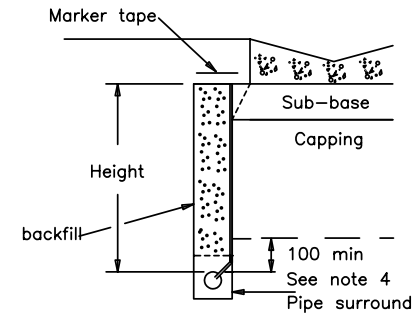
F18



DRAIN TYPE 5

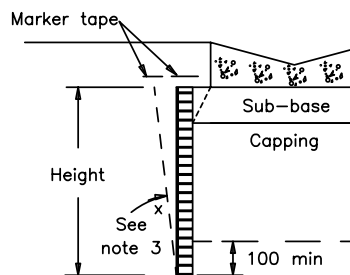


DRAIN TYPE 6

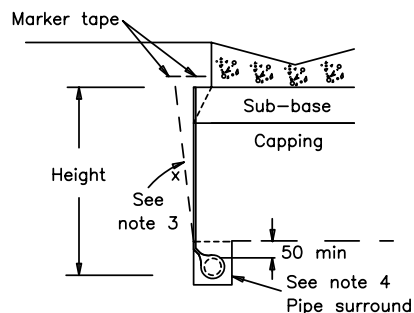


DRAIN TYPE 7

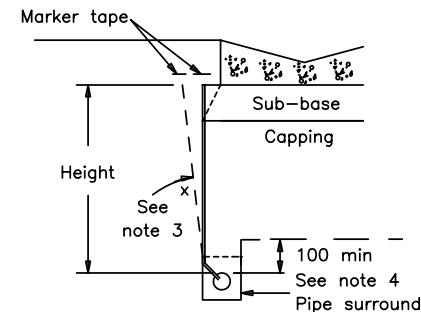
DRAINS LAID IN NARROW TRENCHES



DRAIN TYPE 5



DRAIN TYPE 6



DRAIN TYPE 7

DRAINS LAID IN THE SIDE OF EXCAVATION PRIOR TO THE PLACEMENT OF PAVEMENT/CAPPING LAYERS

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES  
 2. Fin drains shall be a minimum of 75 from the edge of the surface water channel where appropriate.

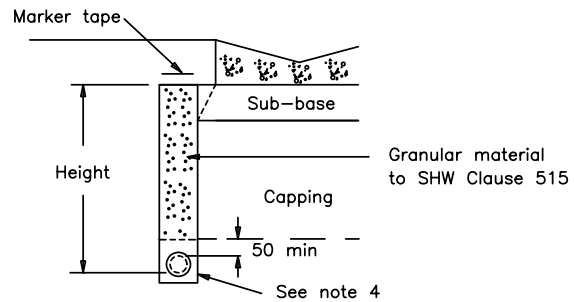
3. Marker tapes, surround/backfill materials and maximum drain slope angle (x) shall be as described in the S.H.W. Clause 514.

4. Pipe surround material shall be as shown on Drg No. F18  
 5. Installation of the drains shall be modified accordingly when used in conjunction with the details shown on Drg Nos. B4 & BB to B10.

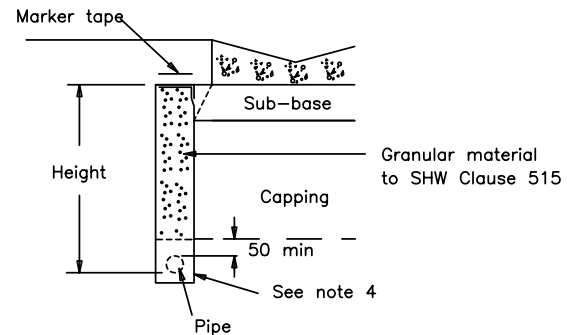
6. The drain shall be constructed with one geotextile face in contact with the side of the excavation. The side having the greater permeability shall be facing towards and be in contact with the pavement construction where appropriate.

7. Slots in drain Type 7 shall be not more than 60' from the crown of the pipe.

HIGHWAY CONSTRUCTION DETAILS	DRAINAGE			EDGE OF PAVEMENT DRAINS – INSTALLATION OF FIN DRAINS	Drawing No.
		A	DEC 91		F19
		Issue	Date		

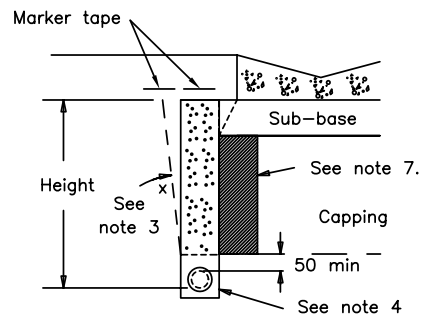


DRAIN TYPE 8

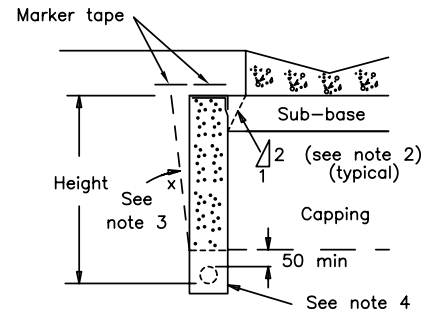


DRAIN TYPE 9

DRAINS LAID IN NARROW TRENCHES



DRAIN TYPE 8



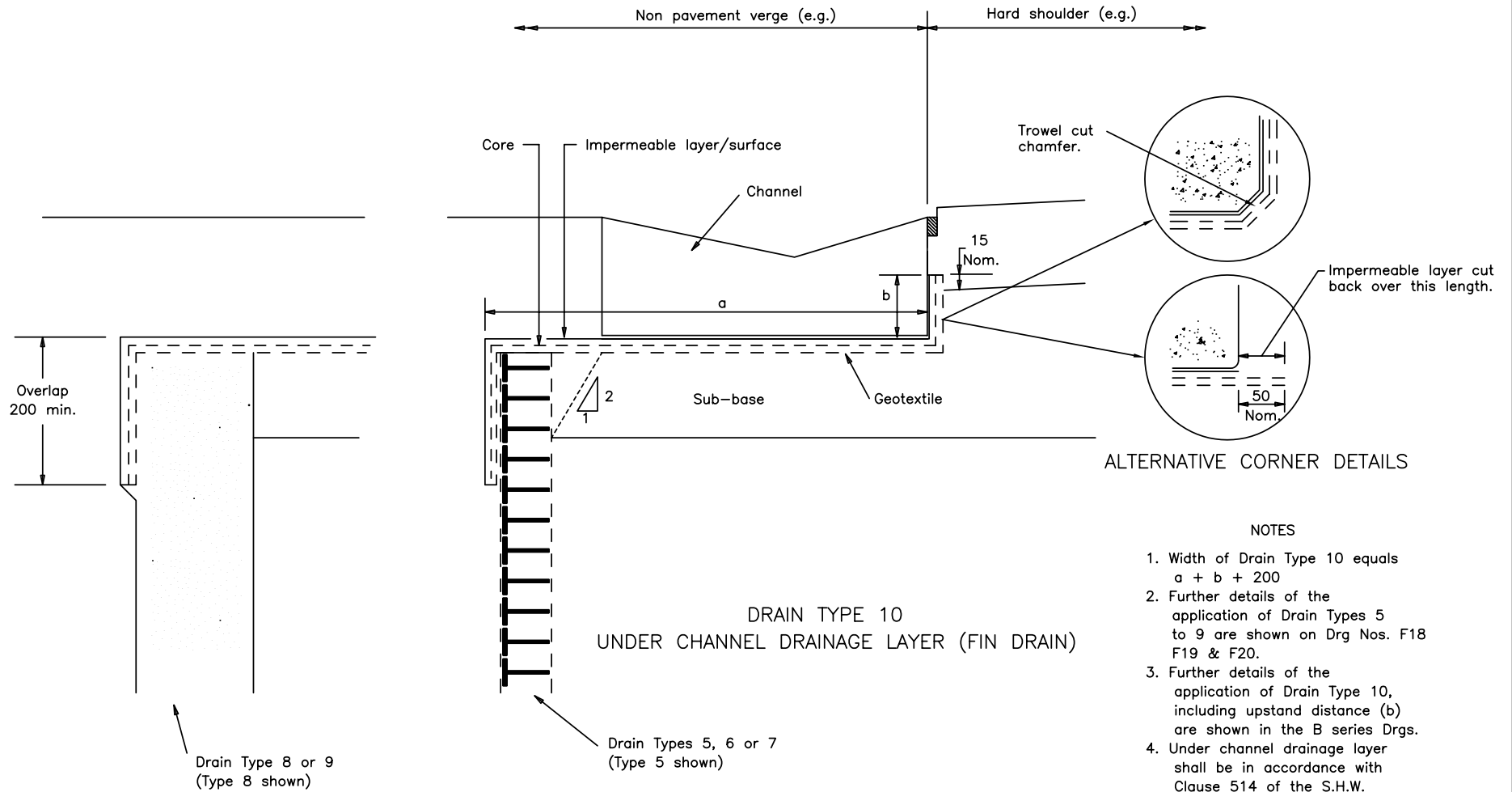
DRAIN TYPE 9

DRAINS LAID IN THE SIDE OF EXCAVATION PRIOR TO THE PLACEMENT OF PAVEMENT/CAPPING LAYERS

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES
2. Narrow filter drains shall be a minimum of 75 from the edge of the surface water channel where appropriate.
3. Marker tapes, and maximum drain slope angle (x) shall be as described in the S.H.W. Clause 514.
4. Pipe surround materials shall be as shown on Drg No. F18
5. Installation of the drains shall be modified accordingly when used in conjunction with the details shown on Drg Nos. B4 & B8 to B10.
6. The drain shall be constructed with one face in contact with the pavement construction.
7. The maximum increased width of filter material shall be 150. In this area either filter material or capping material may be placed.

HIGHWAY CONSTRUCTION DETAILS	DRAINAGE			EDGE OF PAVEMENT DRAINS — INSTALLATION OF NARROW FILTER DRAINS	Drawing No.
		A	DEC 91		F20
		Issue	Date		



ALTERNATIVE CORNER DETAILS

NOTES

1. Width of Drain Type 10 equals  $a + b + 200$
2. Further details of the application of Drain Types 5 to 9 are shown on Drg Nos. F18 F19 & F20.
3. Further details of the application of Drain Type 10, including upstand distance (b) are shown in the B series Drgs.
4. Under channel drainage layer shall be in accordance with Clause 514 of the S.H.W.

HIGHWAY CONSTRUCTION DETAILS

DRAINAGE

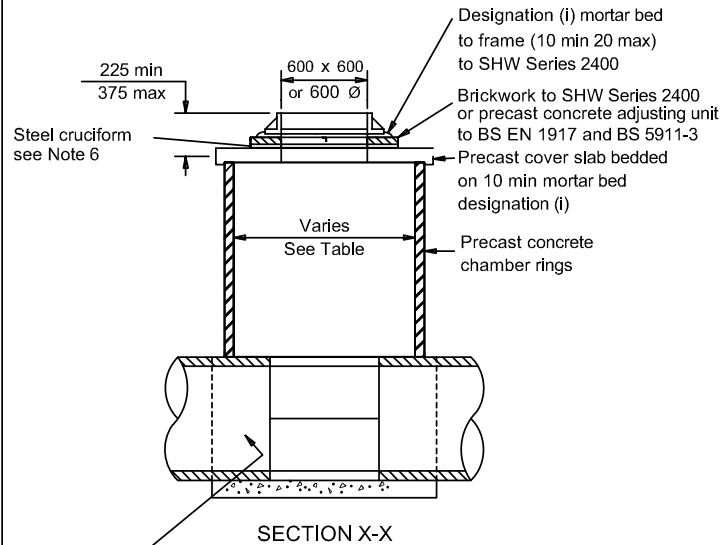
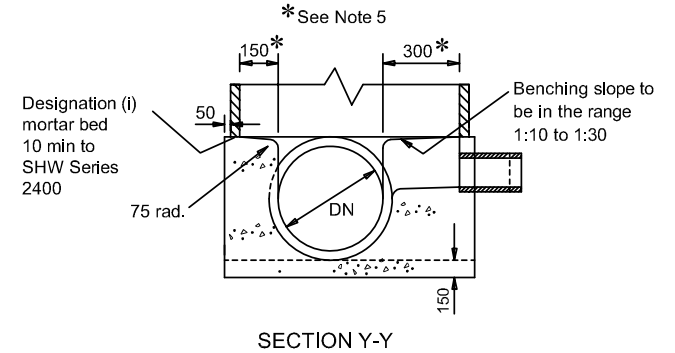
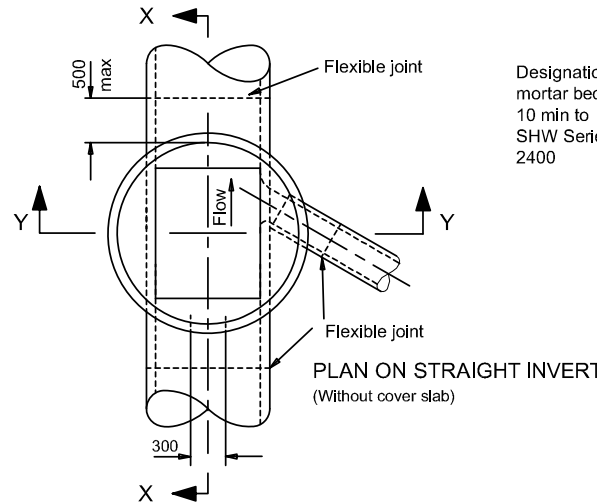
A	DEC 91
Issue	Date

EDGE OF PAVEMENT DRAINS –  
UNDER CHANNEL DRAINAGE LAYERS

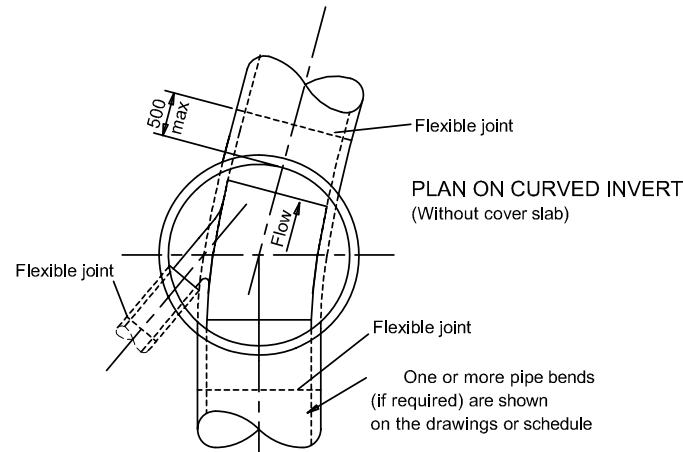
Drawing No.  
F21



CHAMBER SUB-TYPE			
Sub-Type	No. of Branches	Chamber ring dia.	Max. Pipe DN
11a	1	900	450
11b	1	1050	600
11c	1	1200	750
11d	1	1500	900



Integral in-situ ST4 concrete base walls benching & base slab with precast channel as shown or in-situ formed invert as alternative. Walls to extend 50 beyond outer faces of chamber ring. Alternatively precast concrete chamber rings may be bedded in mortar on an in-situ ST4 concrete base slab 300 greater in diameter than internal diameter of chamber rings.



One or more pipe bends (if required) are shown on the drawings or schedule

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. Chamber walls and cover slab to be constructed in precast concrete to BS EN 1917 and BS 5911-3.
3. For details of pipe size(s), invert level(s) and type of cover and frame, see cover and frame, see Drawings and Appendix 5/1.
4. See SHW regarding backfilling/surround to chamber.
5. Benching width to be 300 for branch connection.
6. Cruciform comprising 2 No. 76 x 51 x 6 angle to BS 970 - 1 700 long and protected by hot dip galvanising in accordance with SHW Clause 1909. Cruciform built into brickwork across centre of access hole to prevent man entry.
7. Inspection chambers are intended for use where maintenance is to be carried out using remotely operated equipment only. Deep inspection chambers impose limitations on these techniques and therefore should not be used in highways or other high use areas where excavation for repairs would be unacceptable.
8. All ST concrete shall be to SHW, Clause 2602.

FOR PIPES 900 MAX DIAMETER

HIGHWAY CONSTRUCTION DETAILS

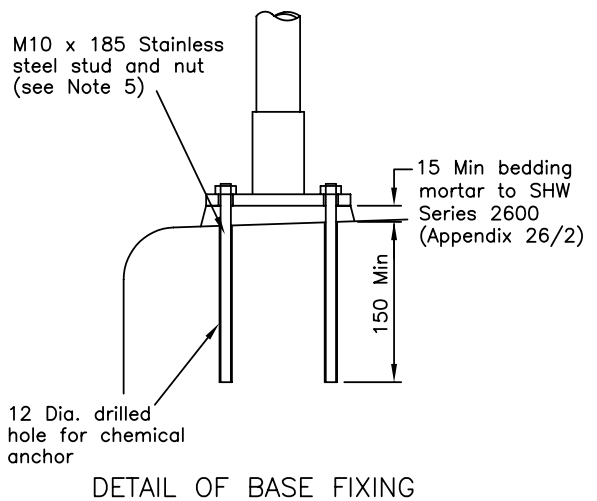
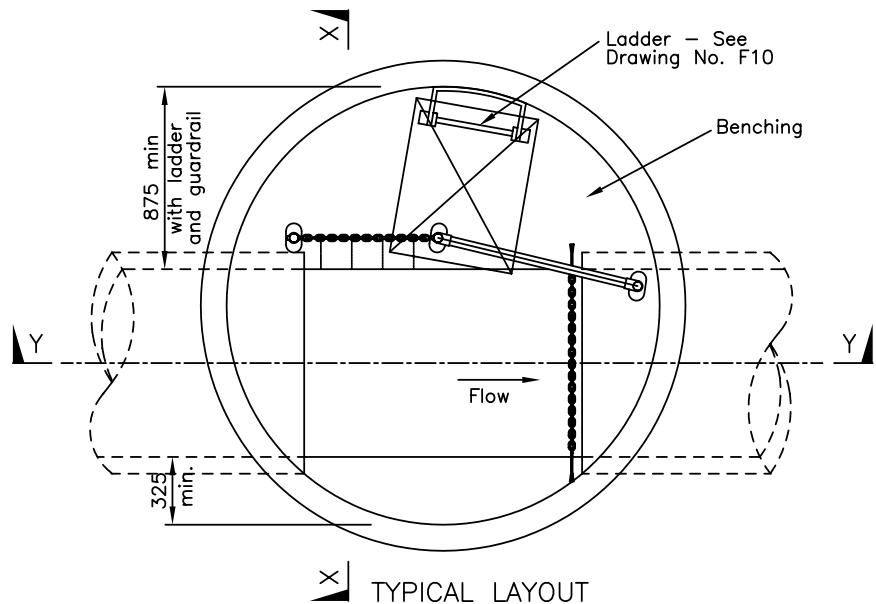
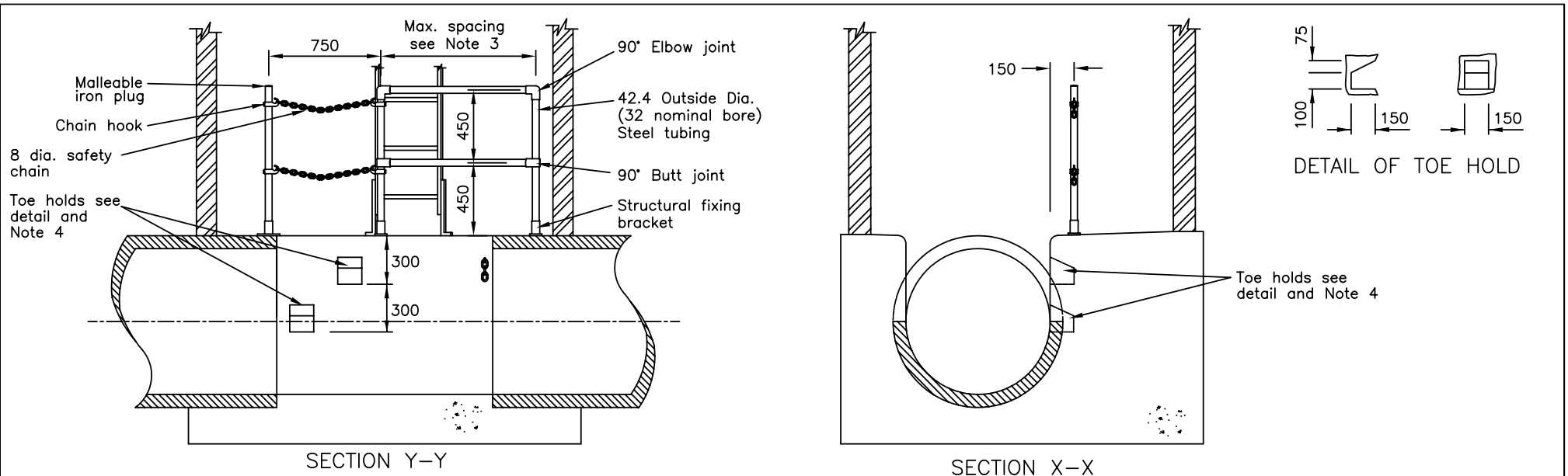
DRAINAGE

D	MAY 06
C	NOV 04
B	NOV 03
A	MAY 01
Issue	Date

TYPE 11 CHAMBER  
(PRECAST CONCRETE DEEP  
INSPECTION CHAMBER)

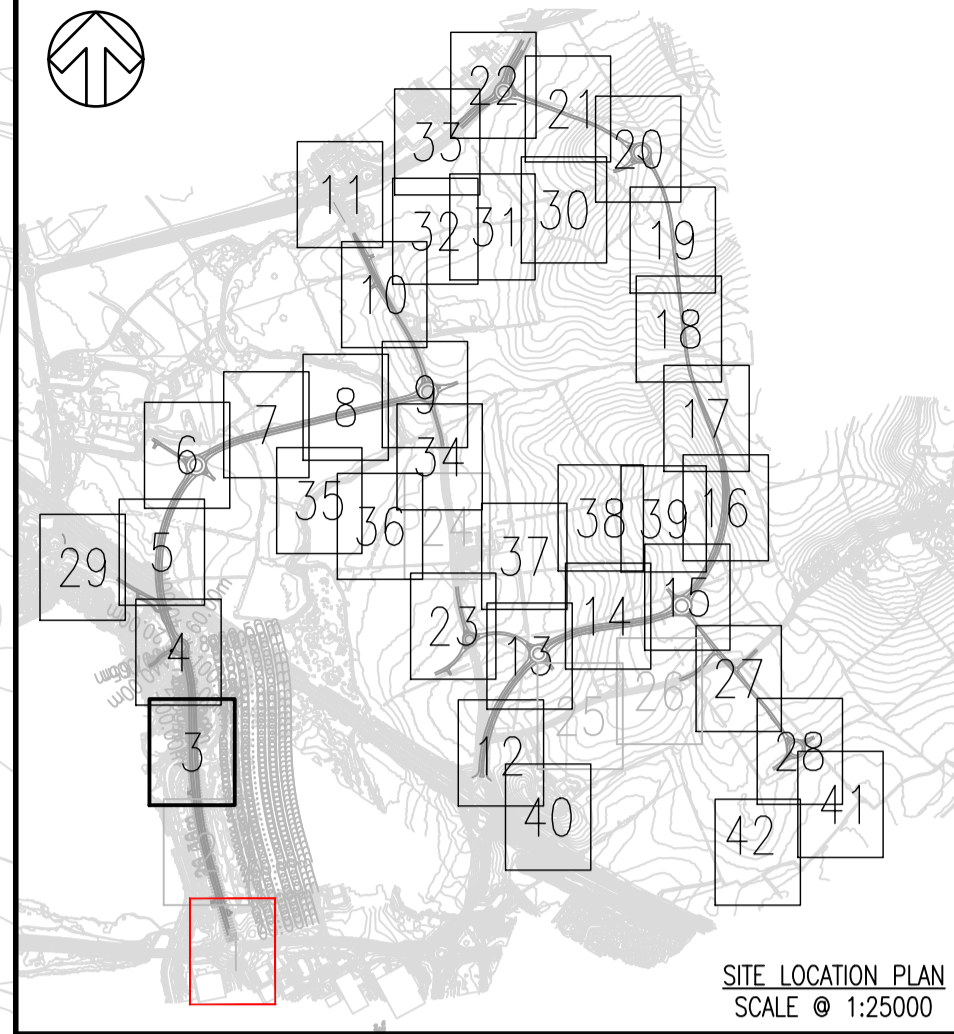
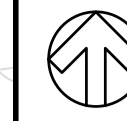
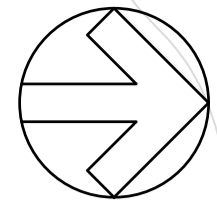
Drawing No.

F27



- NOTES
1. ALL DIMENSIONS ARE IN MILLIMETRES
  2. All steelwork for guardrails, posts, safety chains and hooks to be fabricated from steel to BS 970: Part 1 and to be protected by hot dip galvanising in accordance with SHW Clause 1909.
  3. Maximum spacing of guardrail posts to be 1550  
Maximum gap between chamber wall and posts to be 225
  4. Toe hold detail shown for 900 pipe.
  5. Stainless steel studs and nuts shall be to BS EN 10088-1, designation 1.4401. Isolating washers shall be used between stainless steel fixing stud and galvanised guardrail.

HIGHWAY CONSTRUCTION DETAILS	DRAINAGE	B	NOV 03	CHAMBER FITTINGS – GUARDRAIL	Drawing No.
		A	MAY 01		F28
		Issue	Date		



NOTES:

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- SURFACE WATER RUNOFF IS RESTRICTED TO 4L/S/IMPERMEABLE HECTARE. FOR FURTHER DETAILS OF VORTEX CONTROLS USED AND DISCHARGE RATES PLEASE REFER TOT THE ACCOMPANYING CALCULATIONS
- ALL HEADWALLS TO BE ARCHITECTURALLY CLADDIED

KEY:

- ATTENUATION BASIN
- SURFACE WATER DRAINAGE
- HEADWALL

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DRAWING STATUS: **S0 - WORK IN PROGRESS**

Grosvenor House, 2 Grosvenor Square, Southampton, SO15 2BE, UK  
T+ 44 (0) 2380 101 700  
wsp.com

CLIENT: **BERKELEY ST JAMES**

ARCHITECT: **JTP / STEPHEN GEORGE AND PARTNERS**

SITE/PROJECT: **MILTON KEYNES EAST**

TITLE: **DRAINAGE PLAN SHEET 1**

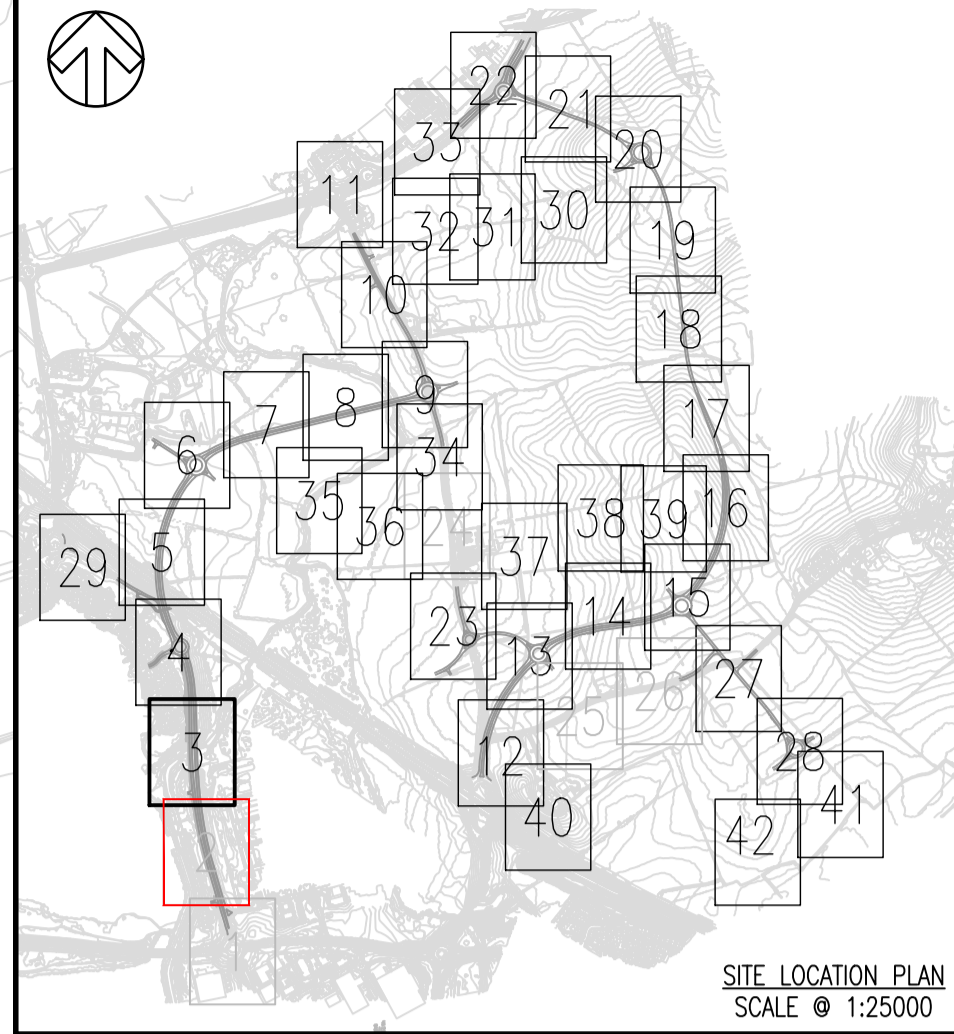
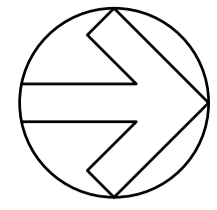
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1:500	DSF	SAP

PROJECT NO:	DESIGNED:	DRAWN:	DATE:
70057521	DSF	GLG	November 20

DRAWING No:	REV:
MKE-WSP-ZZ-ZZ-C-DR-0501	P01

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KEY:

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- SURFACE WATER DRAINAGE
- HEADWALL

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P01	12/03/2021	OPL	FIRST ISSUE	DSF	SAP
REV	DATE	BY	DESCRIPTION	CHK	APP

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Grosvenor House, 2 Grosvenor Square, Southampton, SO15 2BE, UK  
T+ 44 (0) 2380 101 700  
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CLIENT: **BERKELEY ST JAMES**

ARCHITECT: **JTP / STEPHEN GEORGE AND PARTNERS**

SITE/PROJECT: **MILTON KEYNES EAST**

TITLE: **DRAINAGE PLAN SHEET 2**

SCALE @ A1:	CHECKED:	APPROVED:	
1:500	DSF	SAP	
PROJECT NO:	DESIGNED:	DRAWN:	DATE:
70057521	DSF	GLG	November 20

DRAWING NO:	REV:
MKE-WSP-ZZ-ZZ-C-DR-0502	P01

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File name: I:\UK\WSP\GROUP\CENTRAL DATA\PROJECTS\70057521 - MKE - PLANNING APPLICATIONS\WSP\ZZ-ZZ-C-DR-0502.DWG, printed on 25 March 2021 15:48:35, by Patricia-Lowe, Ollie

FOR CONTINUATION REFER TO SHEET 2

FOR CONTINUATION REFER TO SHEET 2

2 (2)  
CL62.679  
IL 61.479

S 1.001 (3)  
Slope - 1:150.000  
Pipe Size - 0.375m

3 (2)  
CL62.255  
IL 61.055

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Slope - 1:150.000  
Pipe Size - 0.450m

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IL 60.674

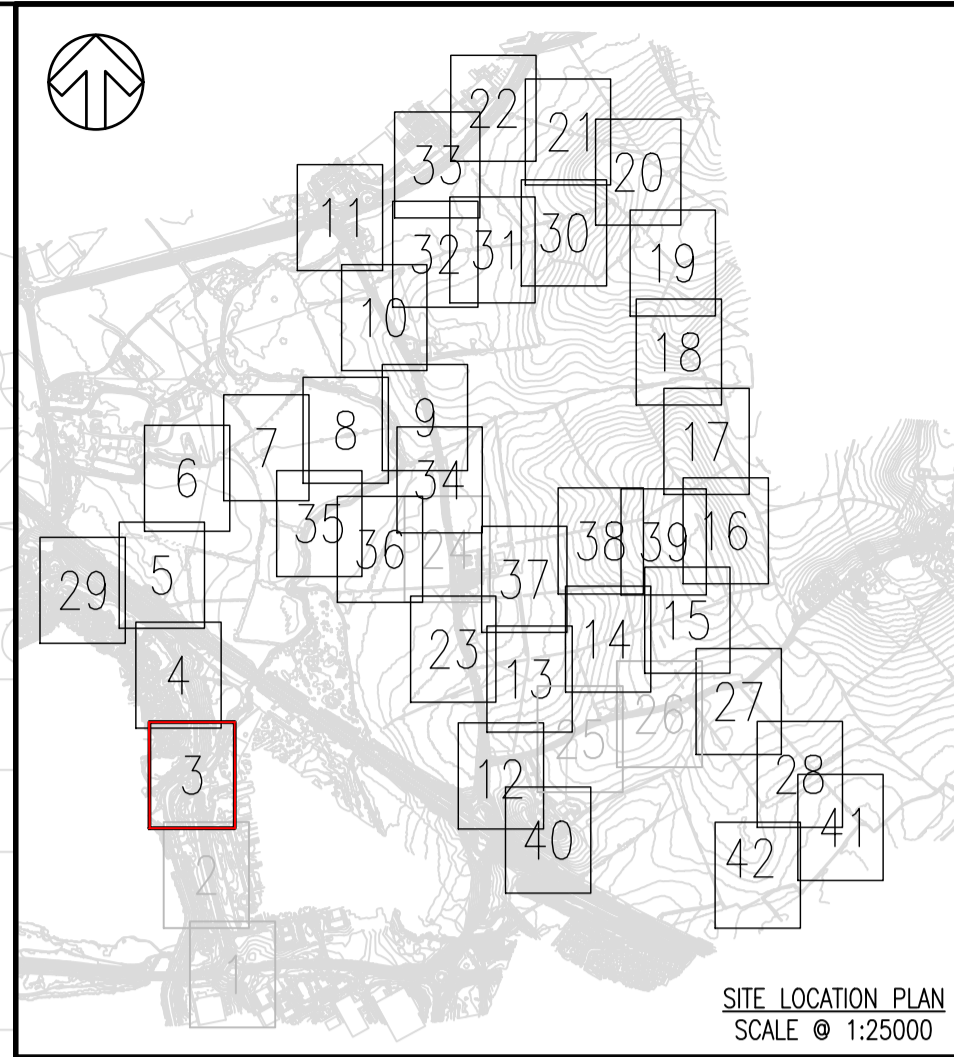
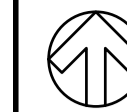
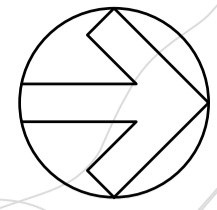
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Pipe Size - 0.450m

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CL61.671  
IL 60.471

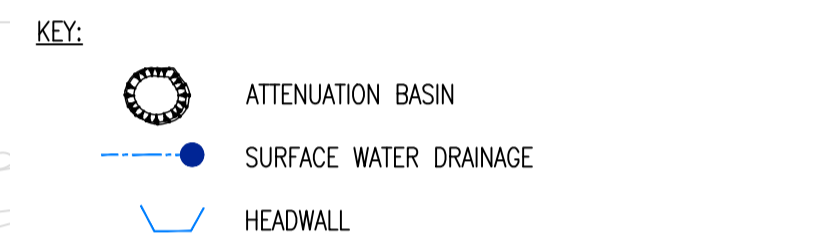
S 1.004 (3)  
Slope - 1:319.031  
Pipe Size - 0.525m

6 (2)  
CL61.863  
IL 60.603

S 1.005 (4)  
Slope - 1:319.306  
Pipe Size - 0.525m



- NOTES:**
- DRAWINGS ARE PREPARED TO SUPPORT DETAILED PLANNING APPLICATION FOR THE STRATEGIC HIGHWAY INFRASTRUCTURE ASSOCIATED WITH MILTON KEYNES EAST (MKE) DEVELOPMENT.
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  - SURFACE WATER RUNOFF IS RESTRICTED TO 4L/S/IMPERMEABLE HECTARE. FOR FURTHER DETAILS OF VORTEX CONTROLS USED AND DISCHARGE RATES PLEASE REFER TOT THE ACCOMPANYING CALCULATIONS
  - ALL HEADWALLS TO BE ARCHITECTURALLY CLADDED



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POI	DATE	BY	DESCRIPTION	CHK	APP
P01	12/03/2021	OPL	FIRST ISSUE	DSF	SAP
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: **S0 - WORK IN PROGRESS**



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CLIENT: **BERKELEY ST JAMES**

ARCHITECT: **JTP / STEPHEN GEORGE AND PARTNERS**

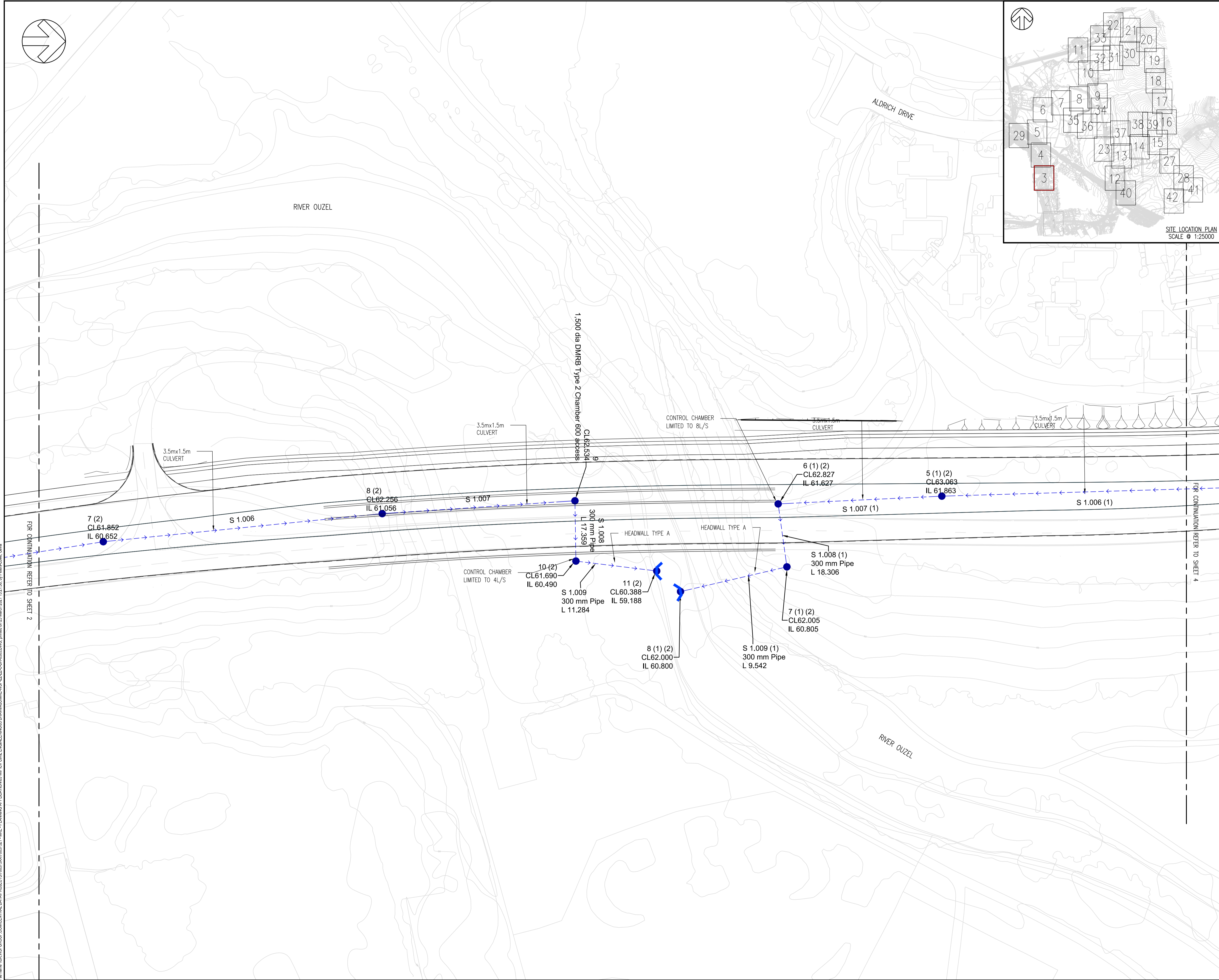
SITE/PROJECT: **MILTON KEYNES EAST**

TITLE: **DRAINAGE PLAN SHEET 3**

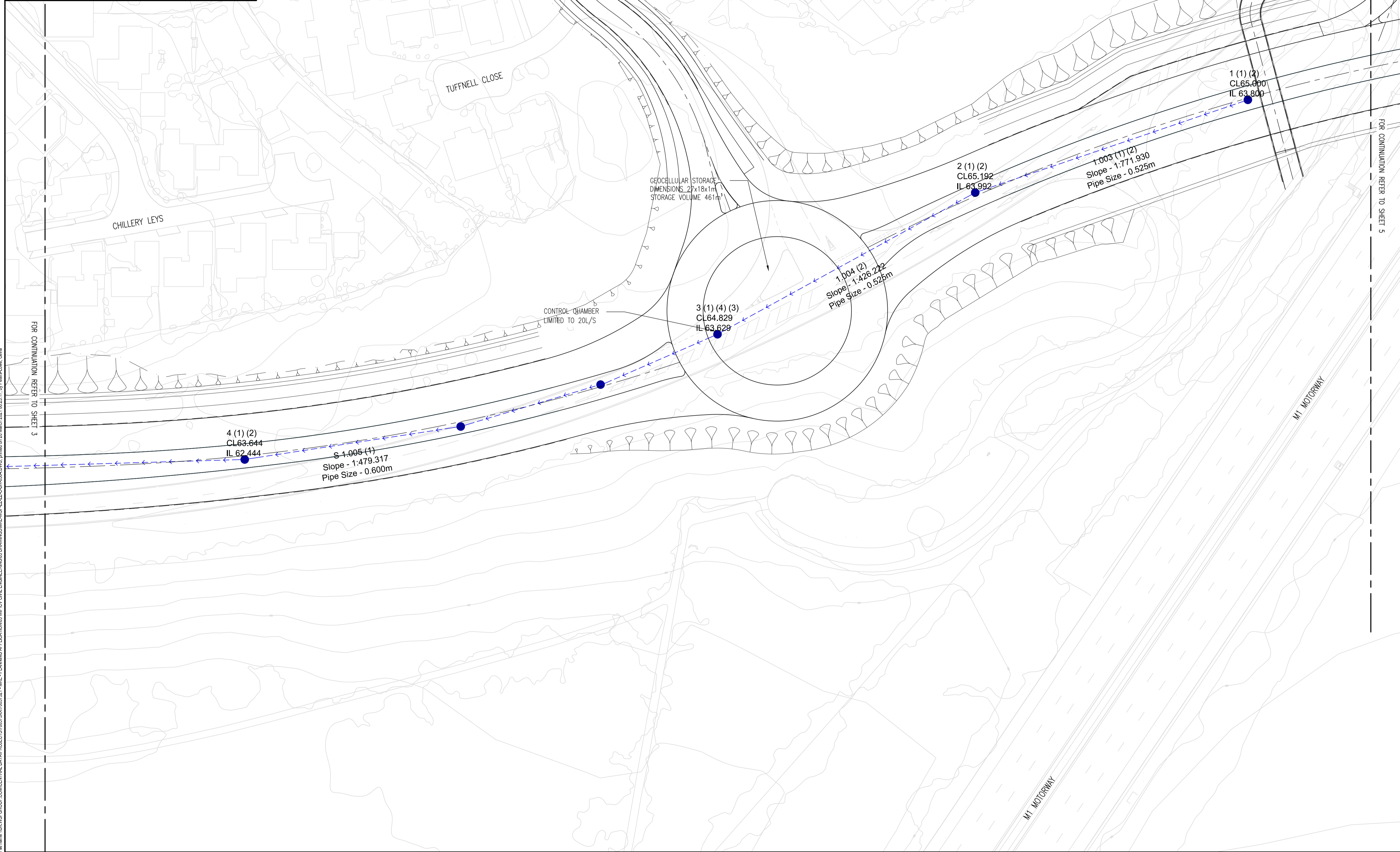
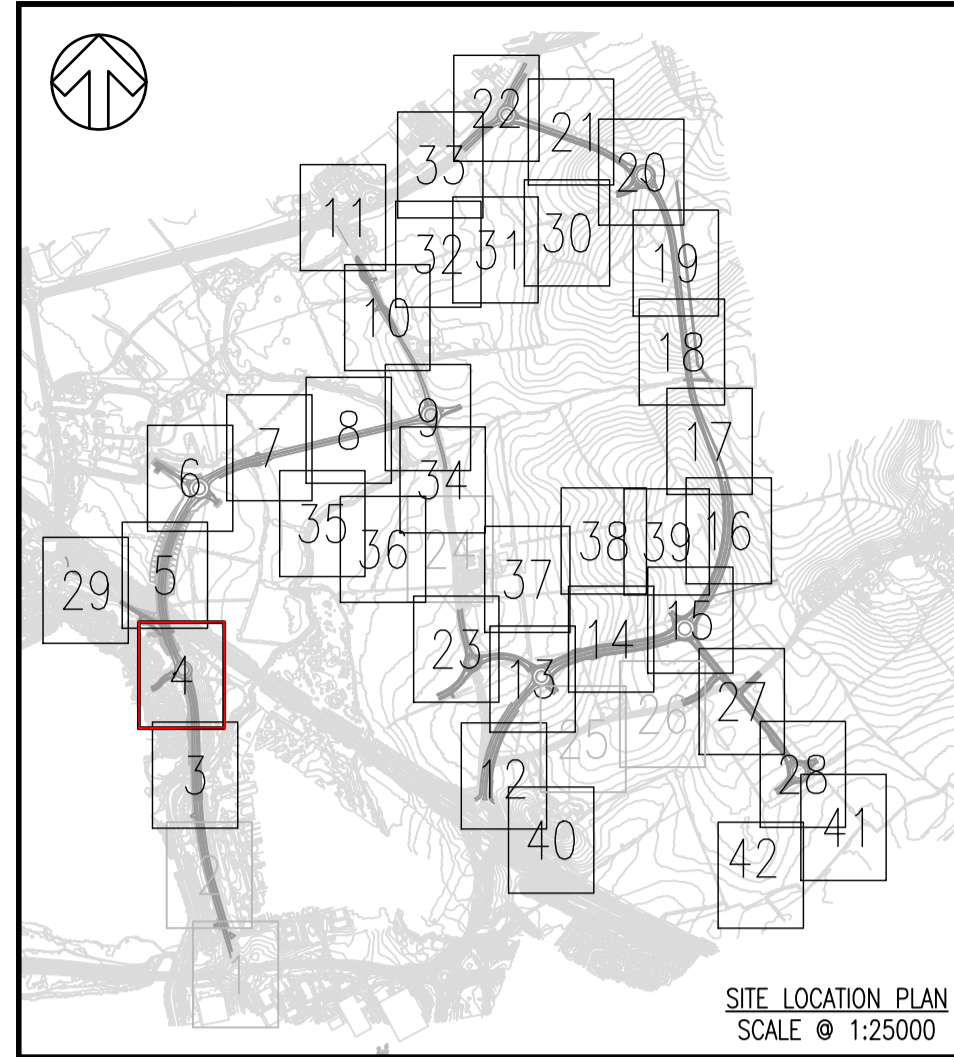
SCALE @ A1:	CHECKED:	APPROVED:	
1:500	DSF	SAP	
PROJECT NO:	DESIGNED:	DRAWN:	DATE:
70057521	DSF	GLG	November 20

DRAWING No: **MKE-WSP-ZZ-ZZ-C-DR-0503** REV: **P01**

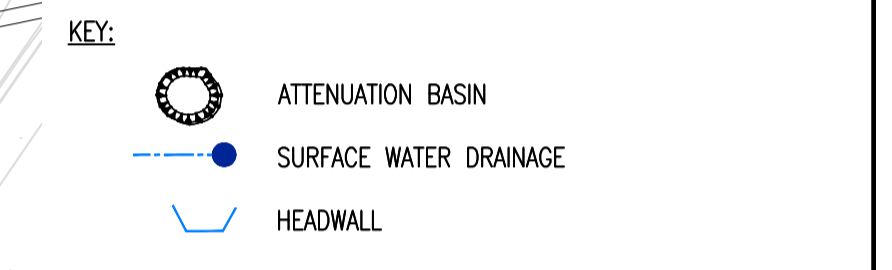
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  - ALL HEADWALLS TO BE ARCHITECTURALLY CLADDED



FOR CONTINUATION REFER TO SHEET 5

FOR CONTINUATION REFER TO SHEET 3

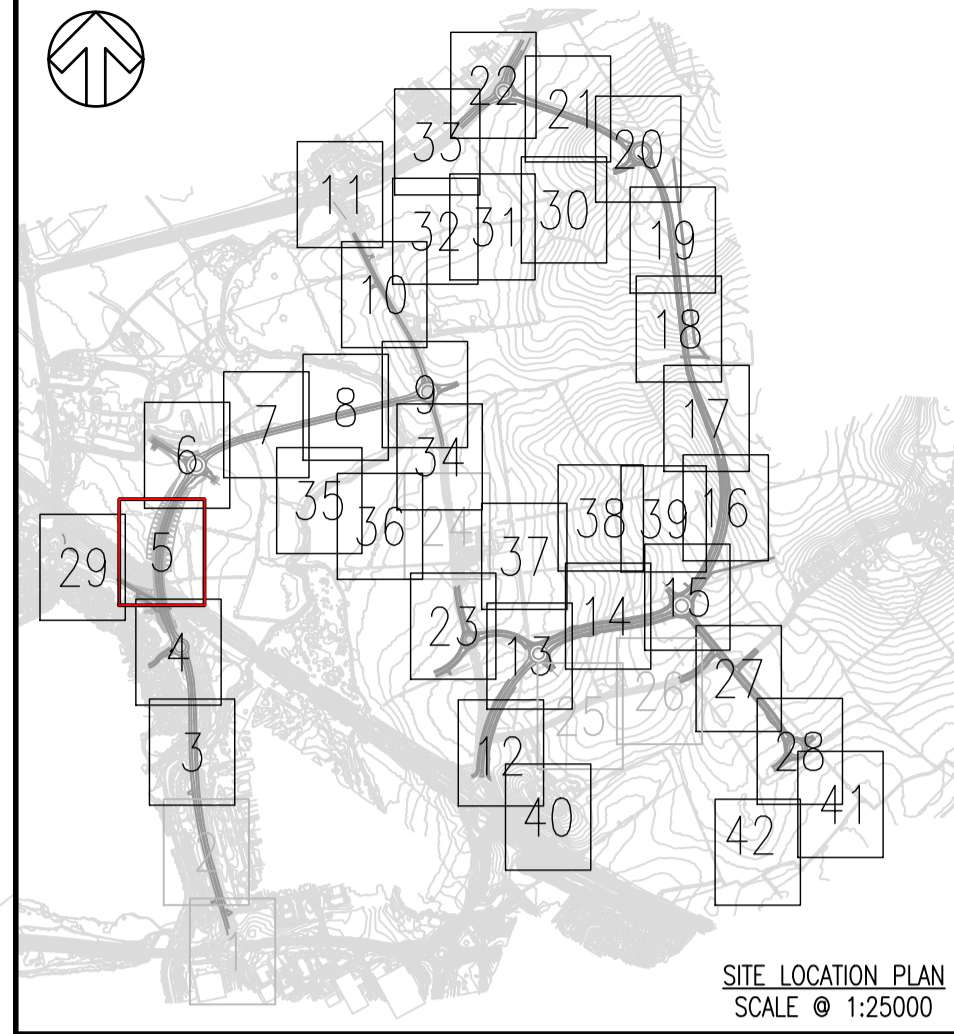
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PO1	12/03/2021	OPL	FIRST ISSUE	DSF	SAP
REV	DATE	BY	DESCRIPTION	CHK	APP
DRAWING STATUS: <b>SO - WORK IN PROGRESS</b>					
Grosvenor House, 2 Grosvenor Square, Southampton, SO15 2BE, UK T+ 44 (0) 2380 101 700 wsp.com					
CLIENT: <b>BERKELEY ST JAMES</b>					
ARCHITECT: <b>JTP / STEPHEN GEORGE AND PARTNERS</b>					
SITE/PROJECT: <b>MILTON KEYNES EAST</b>					
<b>TITLE:</b> DRAINAGE PLAN SHEET 4					
SCALE @ A1:	1:500	CHECKED:	DSF	APPROVED:	SAP
PROJECT NO:	70057521	DESIGNED:	DSF	DRAWN:	GLG
				DATE:	November 20
DRAWING No: <b>MKE-WSP-ZZ-ZZ-C-DR-0504</b>					REV: <b>P01</b>
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File name: \\UK.VSPGROUP.COM\CENTRAL DATA\PROJECTS\70057521\MKE - PLANNING APPLICATIONS\WSP-CVIL ENGINEERING\DRAWINGS\MKE-WSP-ZZ-ZZ-C-DR-0504.DWG, printed on: 28 March 2021 08:23:17, by: Patsie-Love, Office



FOR CONTINUATION REFER TO SHEET 29



NOTES:

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- ALL HEADWALLS TO BE ARCHITECTURALLY CLADDIED

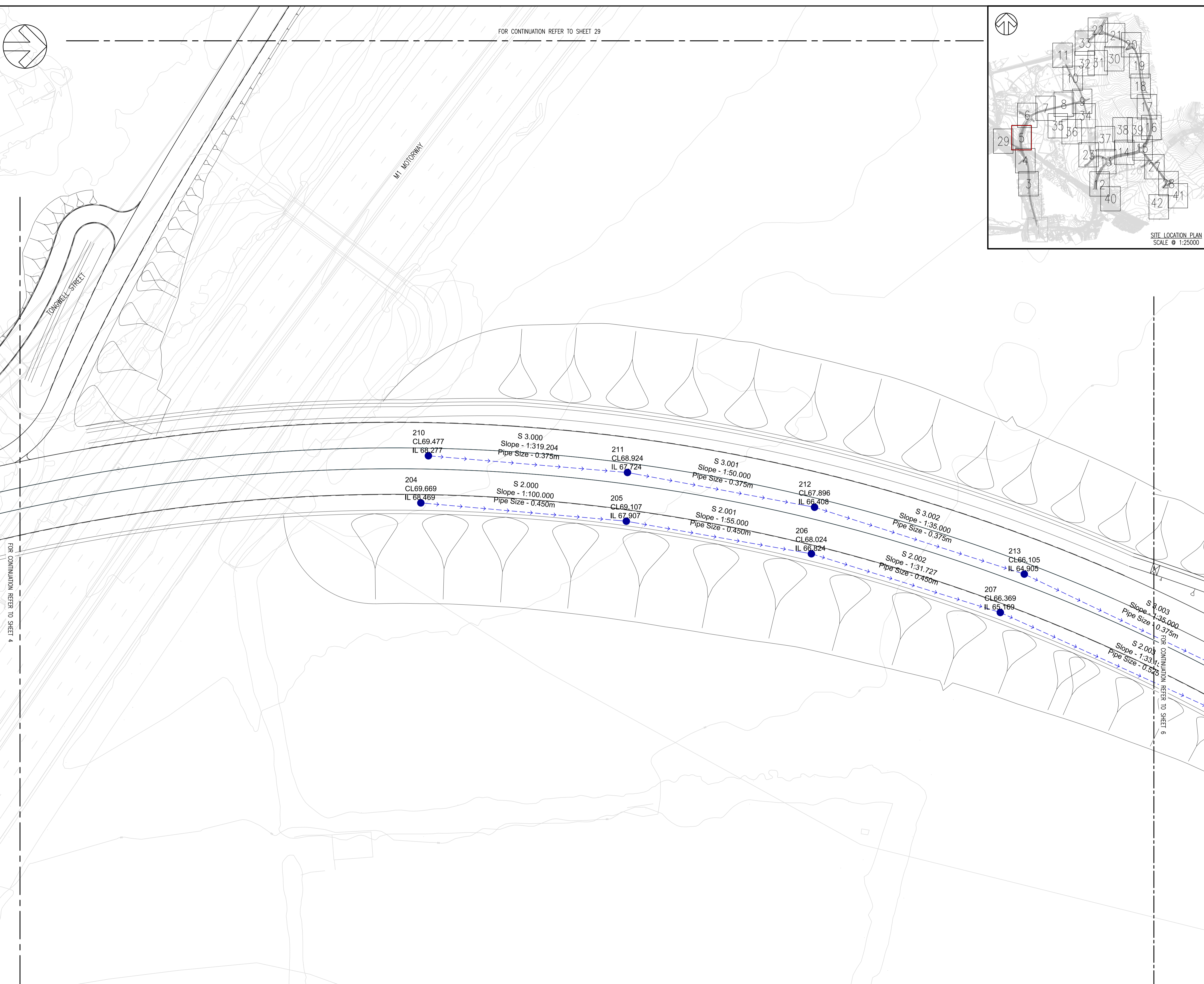
KEY:

- ATTENUATION BASIN
- SURFACE WATER DRAINAGE
- HEADWALL

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FOR CONTINUATION REFER TO SHEET 4

FOR CONTINUATION REFER TO SHEET 6



NO	DATE	BY	DESCRIPTION	CHK	APP
P01	12/03/2021	OPL	FIRST ISSUE	DSF	SAP

DRAWING STATUS: S0 - WORK IN PROGRESS

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CLIENT: BERKELEY ST JAMES

ARCHITECT: JTP / STEPHEN GEORGE AND PARTNERS

SITE/PROJECT: MILTON KEYNES EAST

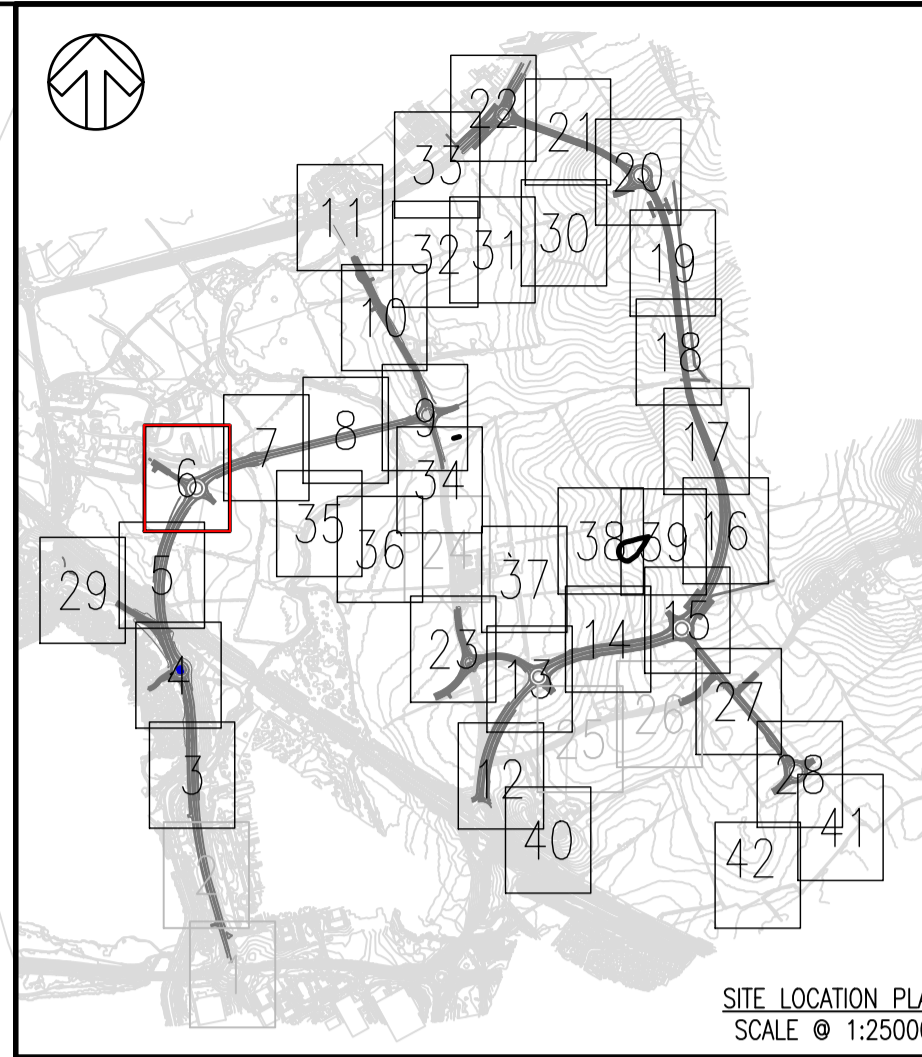
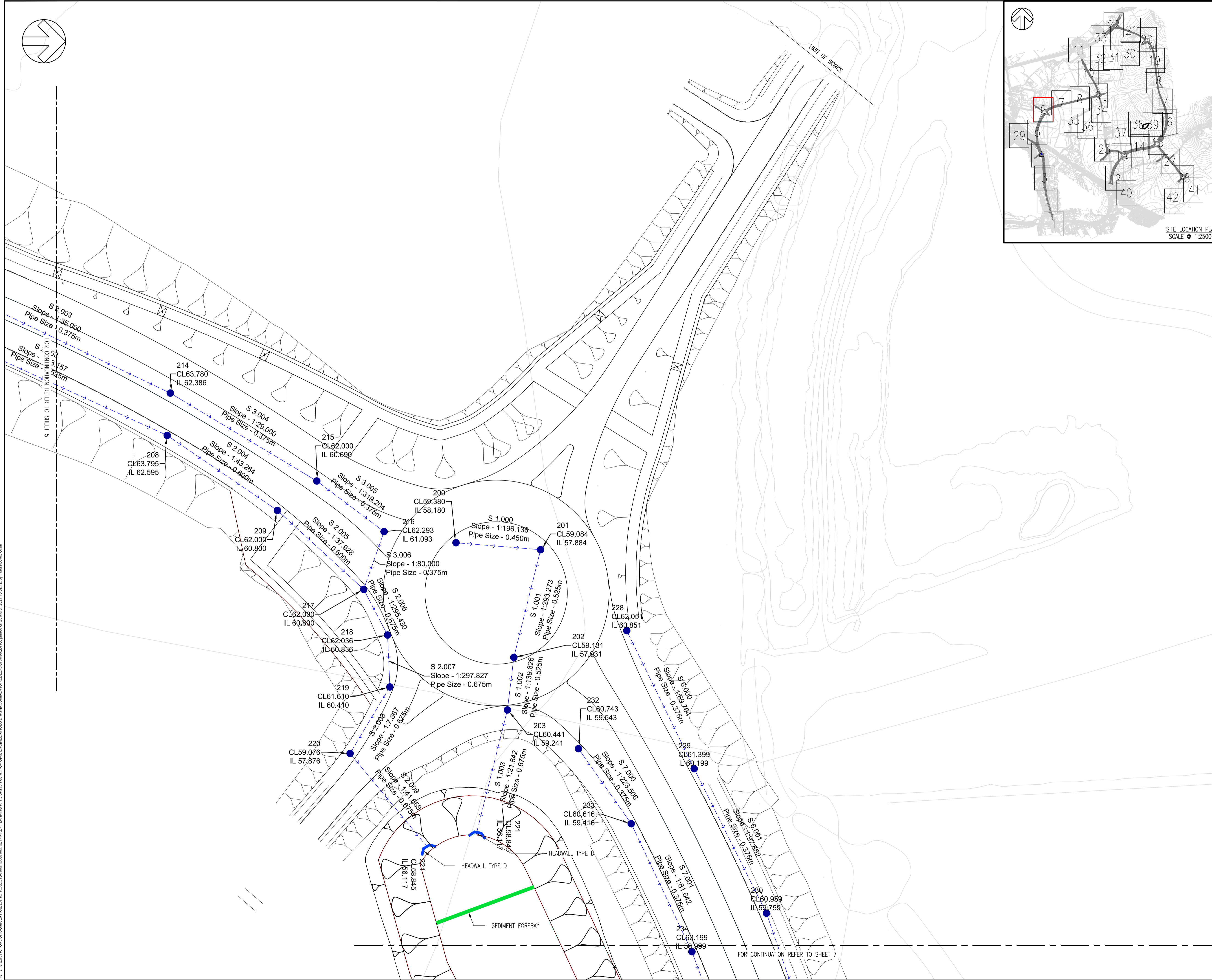
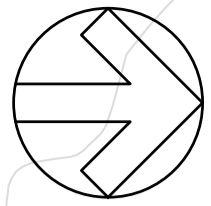
TITLE: DRAINAGE PLAN SHEET 5

SCALE @ A1:	CHECKED:	APPROVED:
1:500	DSF	SAP

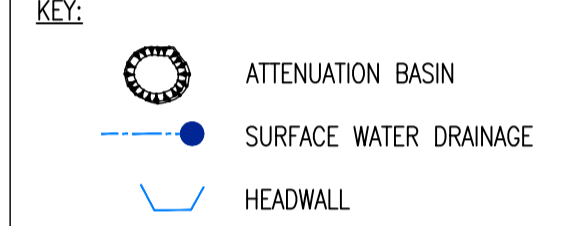
PROJECT NO:	DESIGNED:	DRAWN:	DATE:
70057521	DSF	GLG	November 20

DRAWING No:	REV:
MKE-WSP-ZZ-ZZ-C-DR-0505	P01

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PO1	30/12/2021	OPL	FIRST ISSUE	A.P.	DSF
REV	DATE	BY	DESCRIPTION	CHK	APP

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CLIENT: **BERKELEY ST JAMES**

ARCHITECT: **JTP / STEPHEN GEORGE AND PARTNERS**

SITE/PROJECT: **MILTON KEYNES EAST**

TITLE: **DRAINAGE PLAN SHEET 6**

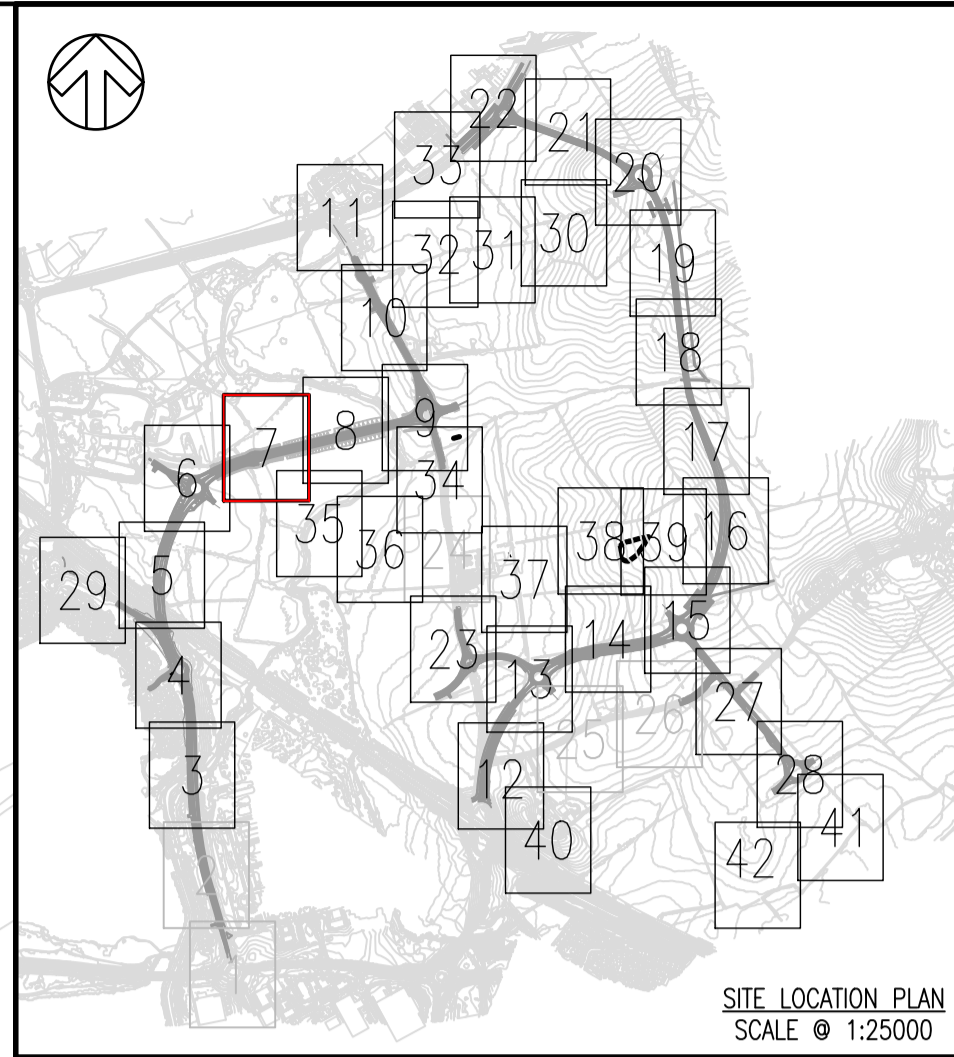
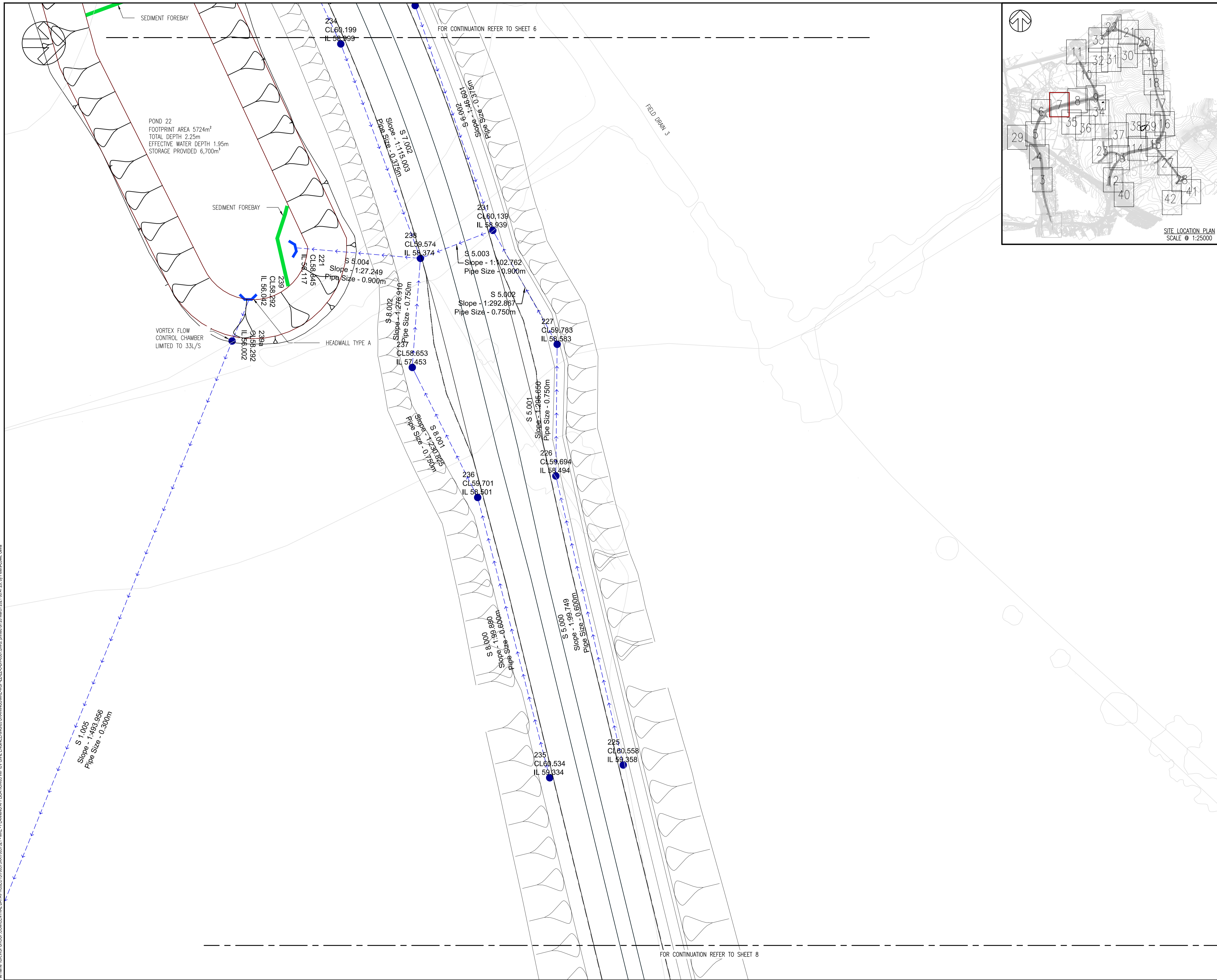
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PROJECT NO:	70057521	DESIGNED:	DSF	DRAWN:	GLG
				DATE:	October 20

DRAWING NO: **MKE-WSP-ZZ-ZZ-CR-0106** REV: **P01**

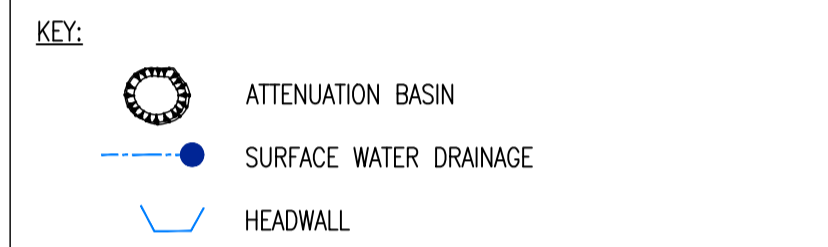
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PO1	12/03/2021	OPL	FIRST ISSUE	DSF	SAP
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: **S0 - WORK IN PROGRESS**

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wsp.com

CLIENT: **BERKELEY ST JAMES**

ARCHITECT: **JTP / STEPHEN GEORGE AND PARTNERS**

SITE PROJECT: **MILTON KEYNES EAST**

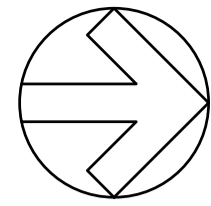
TITLE: **DRAINAGE PLAN SHEET 7**

SCALE @ A1:	CHECKED:	APPROVED:
1:500	DSF	SAP
PROJECT NO:	DESIGNED:	DRAWN:
70057521	DSF	GLG
		DATE:
		November 20

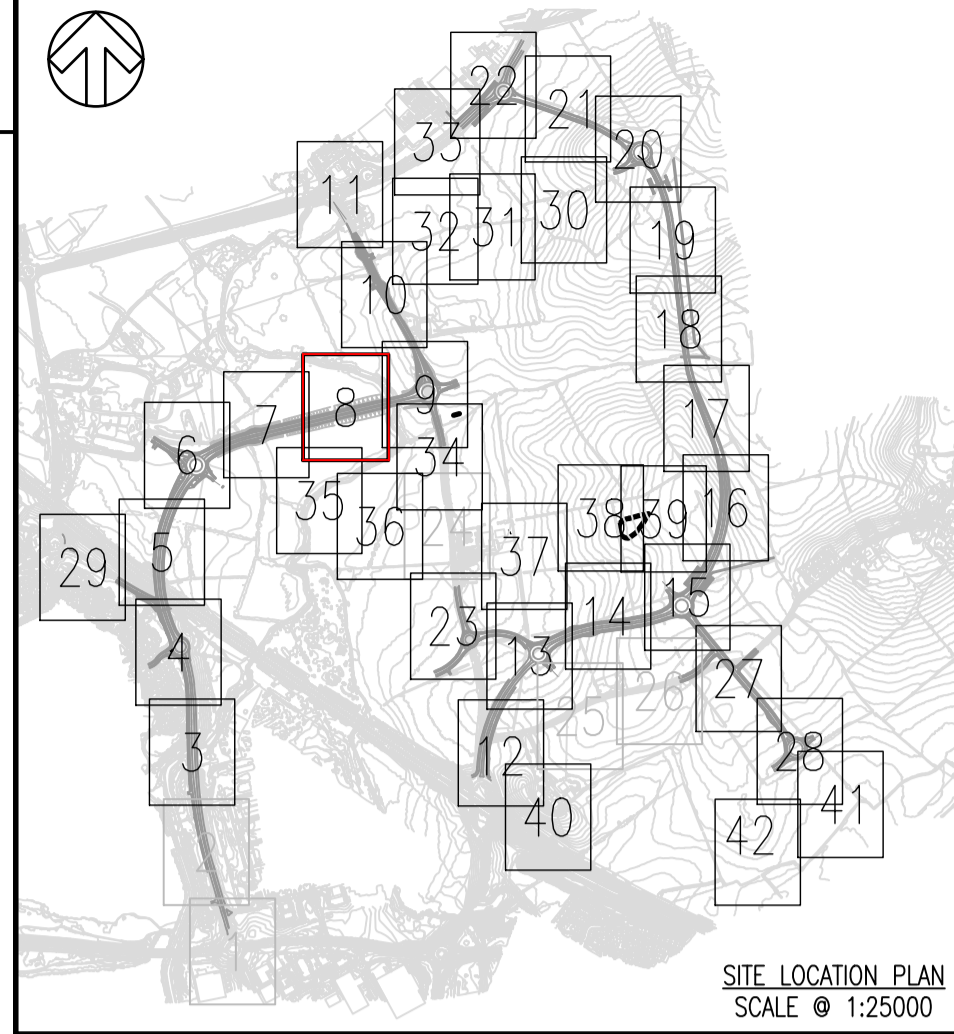
DRAWING No:	REV:
MKE-WSP-ZZ-ZZ-C-DR-0507	P01

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FOR CONTINUATION REFER TO SHEET 7



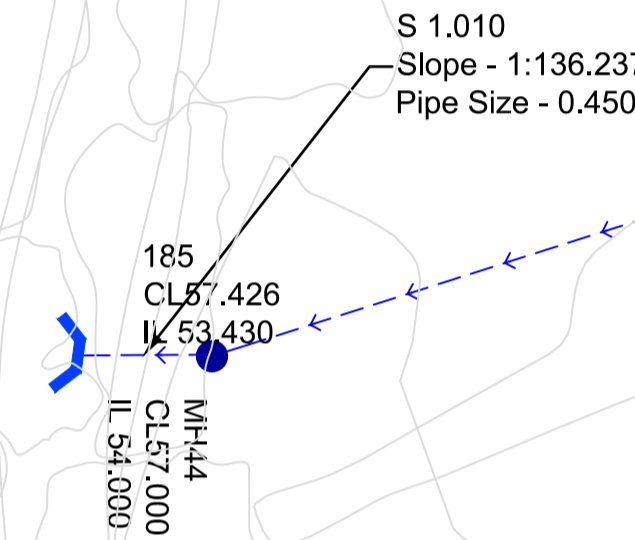
NOTES:

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- SURFACE WATER RUNOFF IS RESTRICTED TO 4L/S/IMPERMEABLE HECTARE. FOR FURTHER DETAILS OF VORTEX CONTROLS USED AND DISCHARGE RATES PLEASE REFER TOT THE ACCOMPANYING CALCULATIONS
- ALL HEADWALLS TO BE ARCHITECTURALLY CLADDIED

KEY:

- ATTENUATION BASIN
- SURFACE WATER DRAINAGE
- HEADWALL

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P01	12/03/2021	OPL	FIRST ISSUE	DSF	SAP

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CLIENT: **BERKELEY ST JAMES**

ARCHITECT: **JTP / STEPHEN GEORGE AND PARTNERS**

SITE/PROJECT: **MILTON KEYNES EAST**

TITLE: **DRAINAGE PLAN SHEET 8**

SCALE @ A1:	CHECKED:	APPROVED:
1:500	DSF	SAP

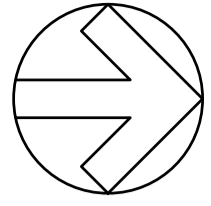
PROJECT NO:	DESIGNED:	DRAWN:	DATE:
70057521	DSF	GLG	November 20

DRAWING NO:	REV:
MKE-WSP-ZZ-ZZ-C-DR-0508	P01

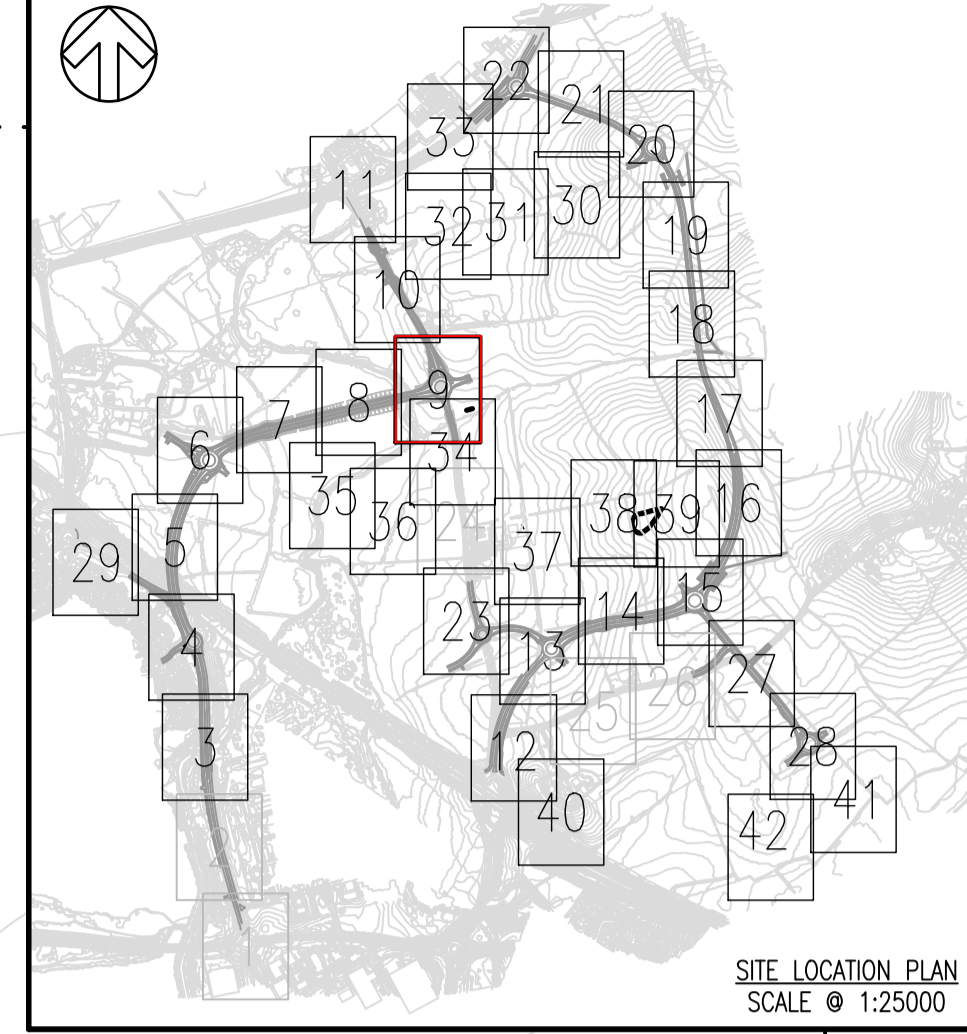
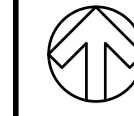
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File name: I:\UK\WSPGROUP\COMCENTRAL\DATA\PROJECTS\70057521\MKE-PLANNING\APPLICATIONS\WSP\CIVIL\ENGINEERING\3\DRAWINGS\MKE-WSP-ZZ-ZZ-C-DR-0508.DWG, printed on 25 March 2021 15:48:44, by: Palina-Lowe, Office



FOR CONTINUATION REFER TO SHEET 8



NOTES:

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12. ALL HEADWALLS TO BE ARCHITECTURALLY CLADDED

KEY:

- ATTENUATION BASIN
- SURFACE WATER DRAINAGE
- HEADWALL

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PO1	12/03/2021	OPL	FIRST ISSUE	DSF	SAP
REV	DATE	BY	DESCRIPTION	CHK	APP

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CLIENT: **BERKELEY ST JAMES**

ARCHITECT: **JTP / STEPHEN GEORGE AND PARTNERS**

SITE/PROJECT: **MILTON KEYNES EAST**

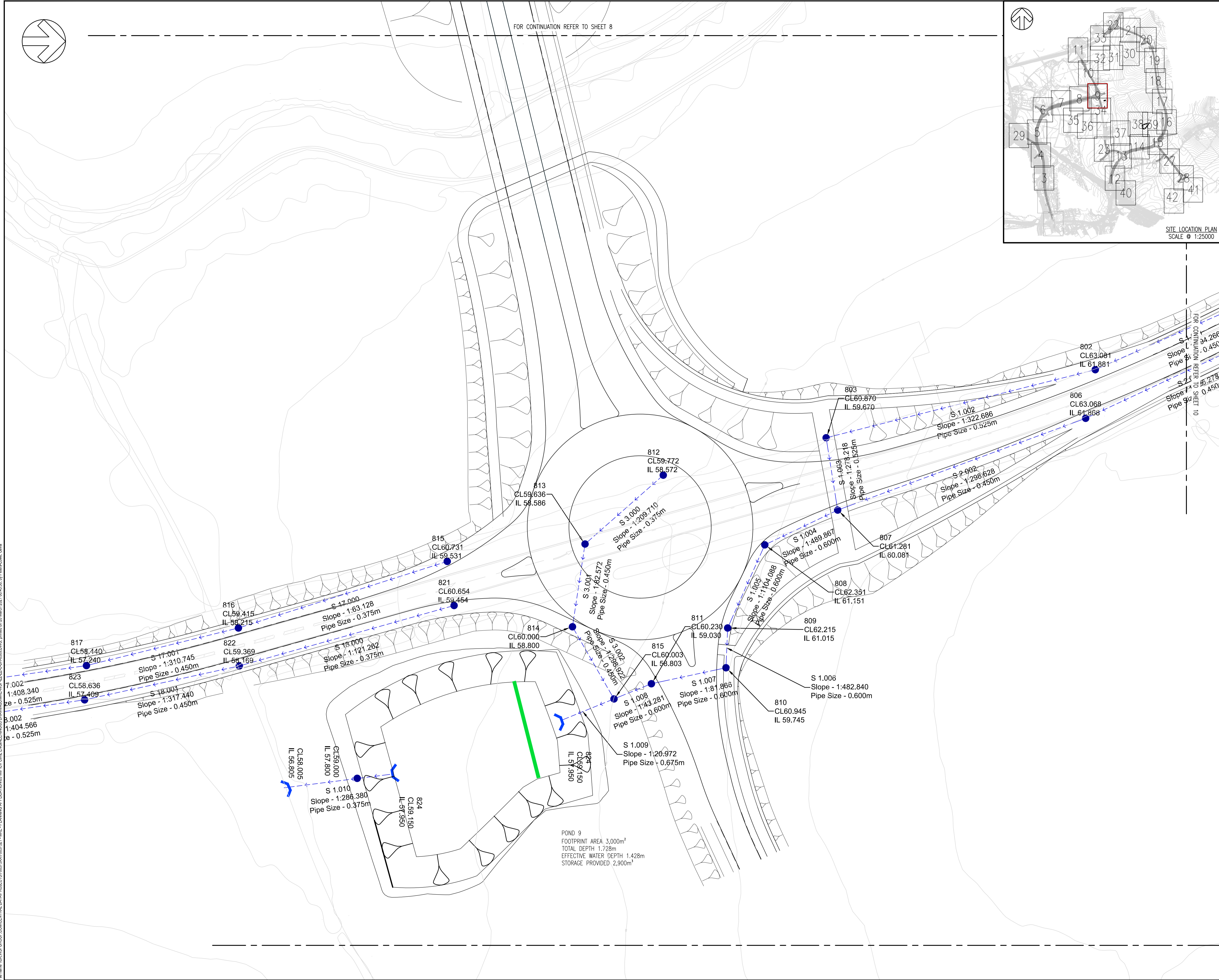
TITLE: **DRAINAGE PLAN SHEET 9**

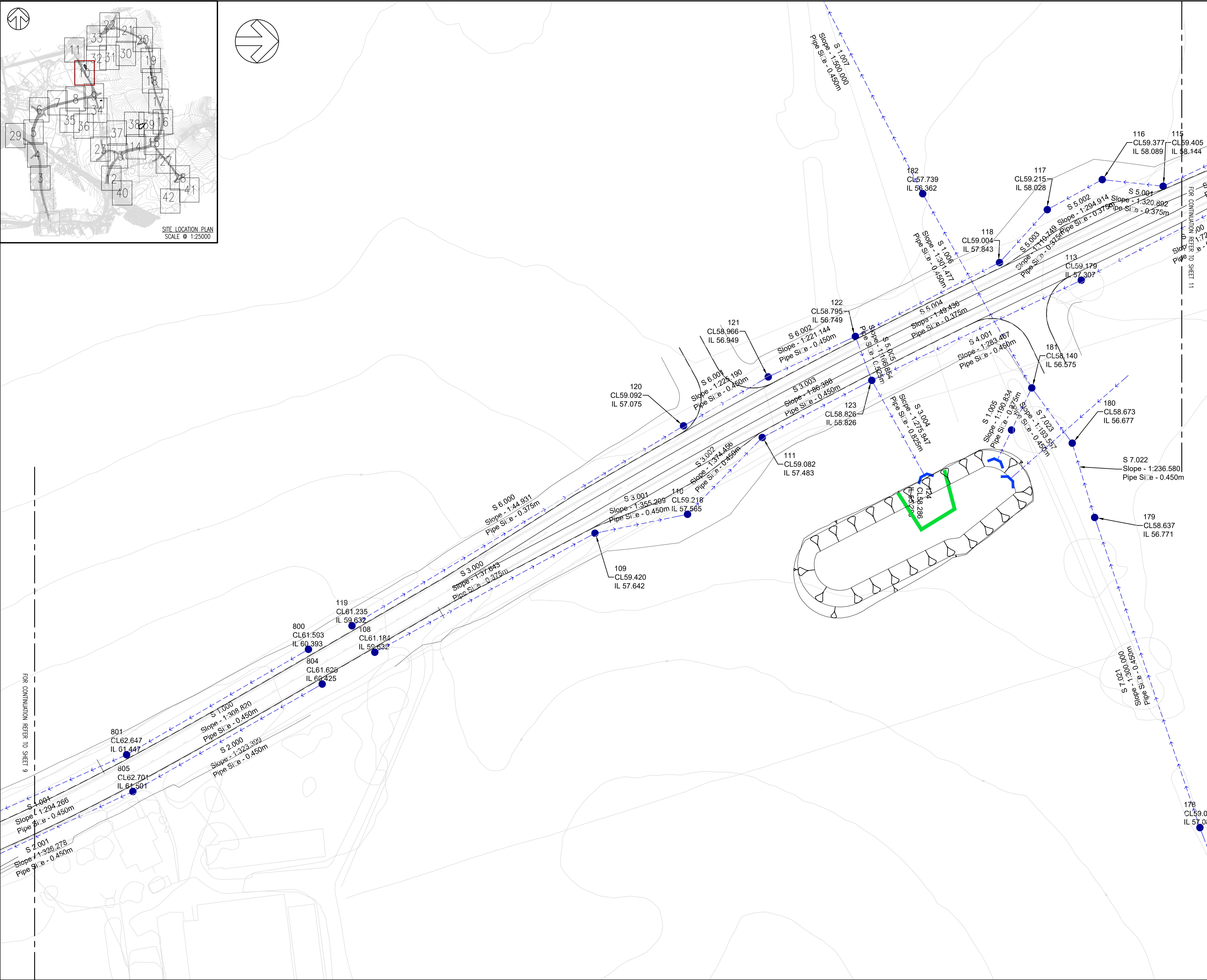
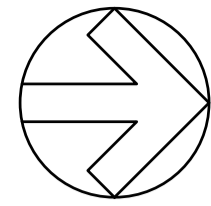
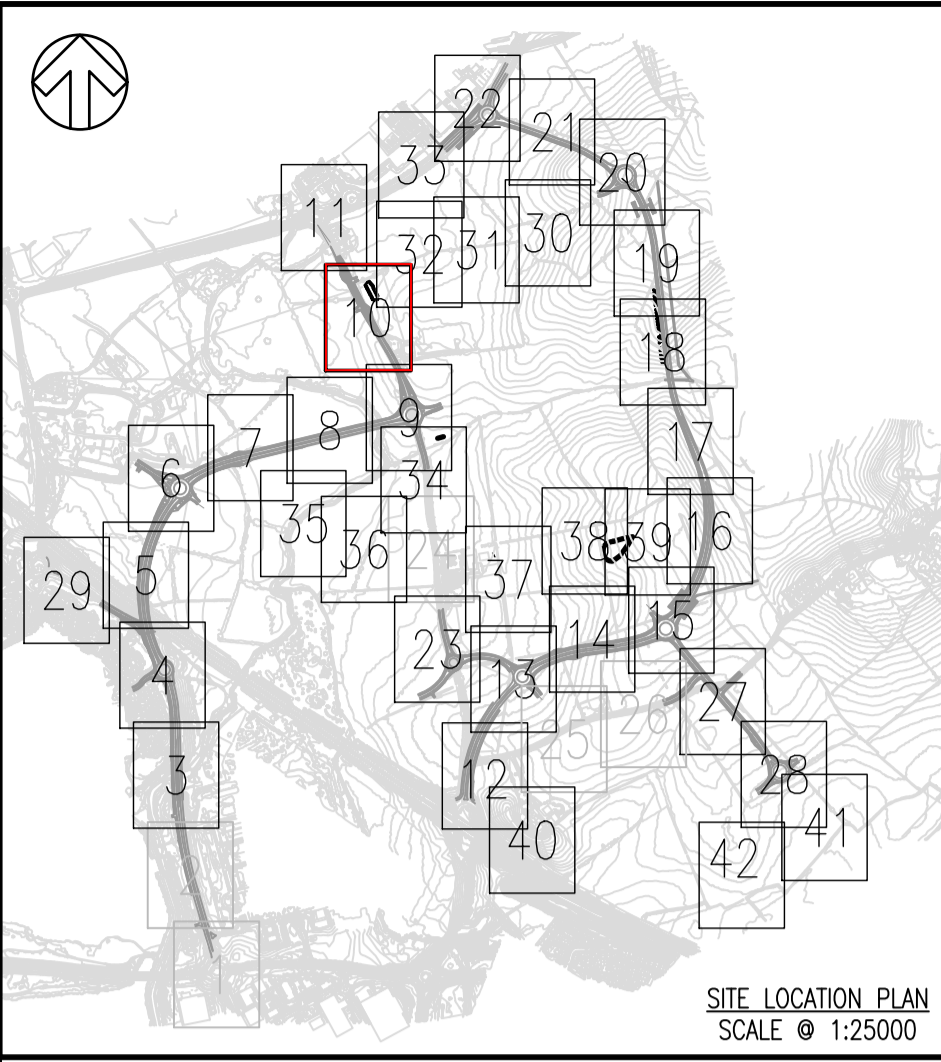
SCALE @ A1:	CHECKED:	APPROVED:
1:500	DSF	SAP
PROJECT NO:	DESIGNED:	DRAWN:
70057521	DSF	GLG
		DATE:
		November 20

DRAWING NO:	REV:
MKE-WSP-ZZ-ZZ-CR-0509	P01

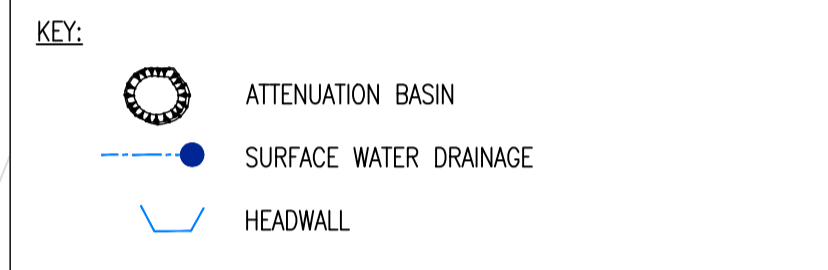
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File name: I:\UK\WSPGROUP\CENTRAL DATA\PROJECTS\70057521 - MKE - PLANNING APPLICATIONS\WSP\CVL\ENGINEERING\DRAWINGS\MKE-WSP-ZZ-ZZ-CR-0509.DWG, printed on: 26 March 2021 08:43:30, by: Patten-Lowe, Clive





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  - ALL DRAINAGE HAS BEEN DESIGNED IN ACCORDANCE WITH THE DCG, DMRB, CIRIA SUDS MANUAL AND MKE GUIDANCE.
  - ALL OUTFALL LEVELS TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION
  - SURFACE WATER RUNOFF IS RESTRICTED TO 4L/S/IMPERMEABLE HECTARE. FOR FURTHER DETAILS OF VORTEX CONTROLS USED AND DISCHARGE RATES PLEASE REFER TOT THE ACCOMPANYING CALCULATIONS
  - ALL HEADWALLS TO BE ARCHITECTURALLY CLADDED



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PO2	29/03/2021	MAR	POND INFORMATION UPDATED	DSF	SAP
PO1	12/03/2021	OPL	FIRST ISSUE	DSF	SAP
REV	DATE	BY	DESCRIPTION	CHK	APP

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CLIENT: **BERKELEY ST JAMES**

ARCHITECT: **JTP / STEPHEN GEORGE AND PARTNERS**

SITE/PROJECT: **MILTON KEYNES EAST**

TITLE: **DRAINAGE PLAN SHEET 10**

SCALE @ A1: 1:500	CHECKED: DSF	APPROVED: SAP
PROJECT NO: 70057521	DESIGNED: DSF	DRAWN: GLG
		DATE: November 20

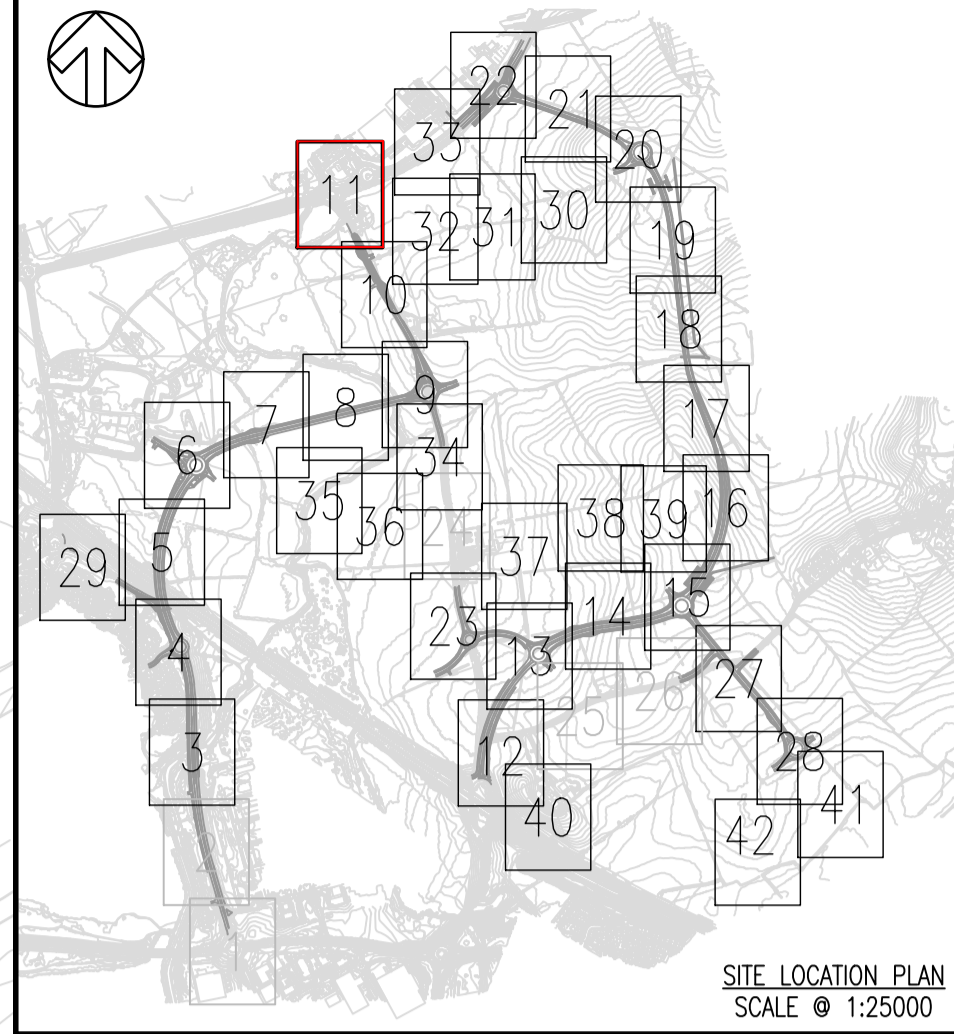
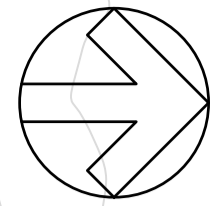
DRAWING No: **MKE-WSP-ZZ-ZZ-CR-0510** REV: **PO2**

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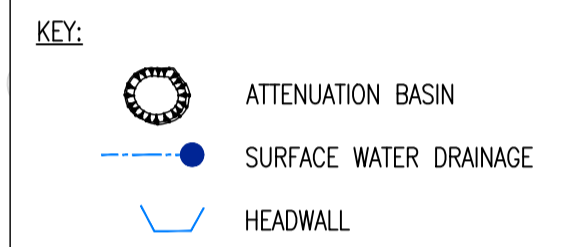
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FOR CONTINUATION REFER TO SHEET 9

FOR CONTINUATION REFER TO SHEET 11



- NOTES:**
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  - ALL HEADWALLS TO BE ARCHITECTURALLY CLADDED



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POI	DATE	BY	DESCRIPTION	DSF	SAP
PO1	12/03/2021	OPL	FIRST ISSUE		
REV				CHK	APP

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CLIENT: **BERKELEY ST JAMES**

ARCHITECT: **JTP / STEPHEN GEORGE AND PARTNERS**

SITE/PROJECT: **MILTON KEYNES EAST**

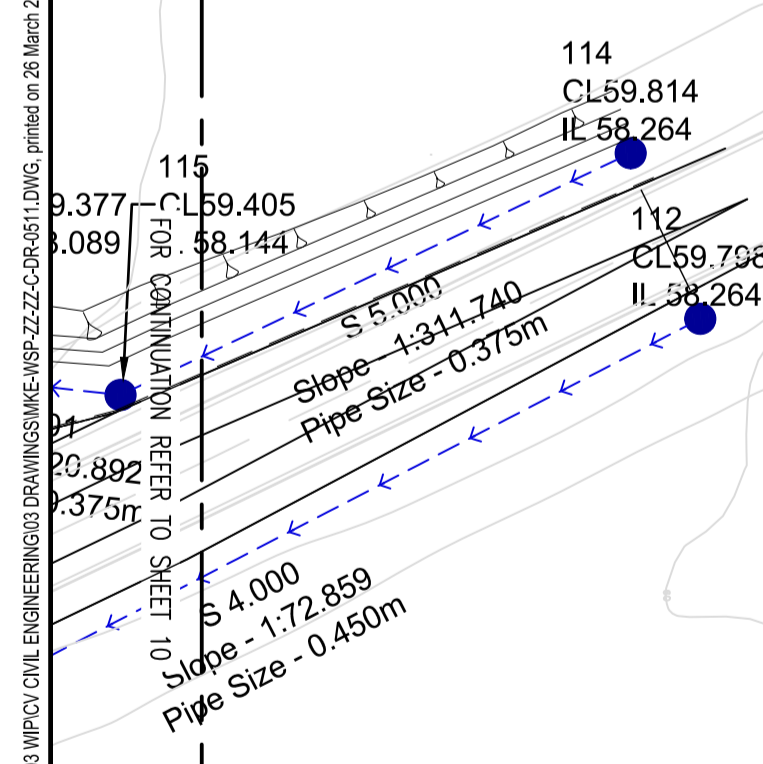
TITLE: **DRAINAGE PLAN SHEET 11**

SCALE @ A1:	CHECKED:	APPROVED:	
1:500	DSF	SAP	
PROJECT NO:	DESIGNED:	DRAWN:	DATE:
70057521	DSF	GLG	November 20

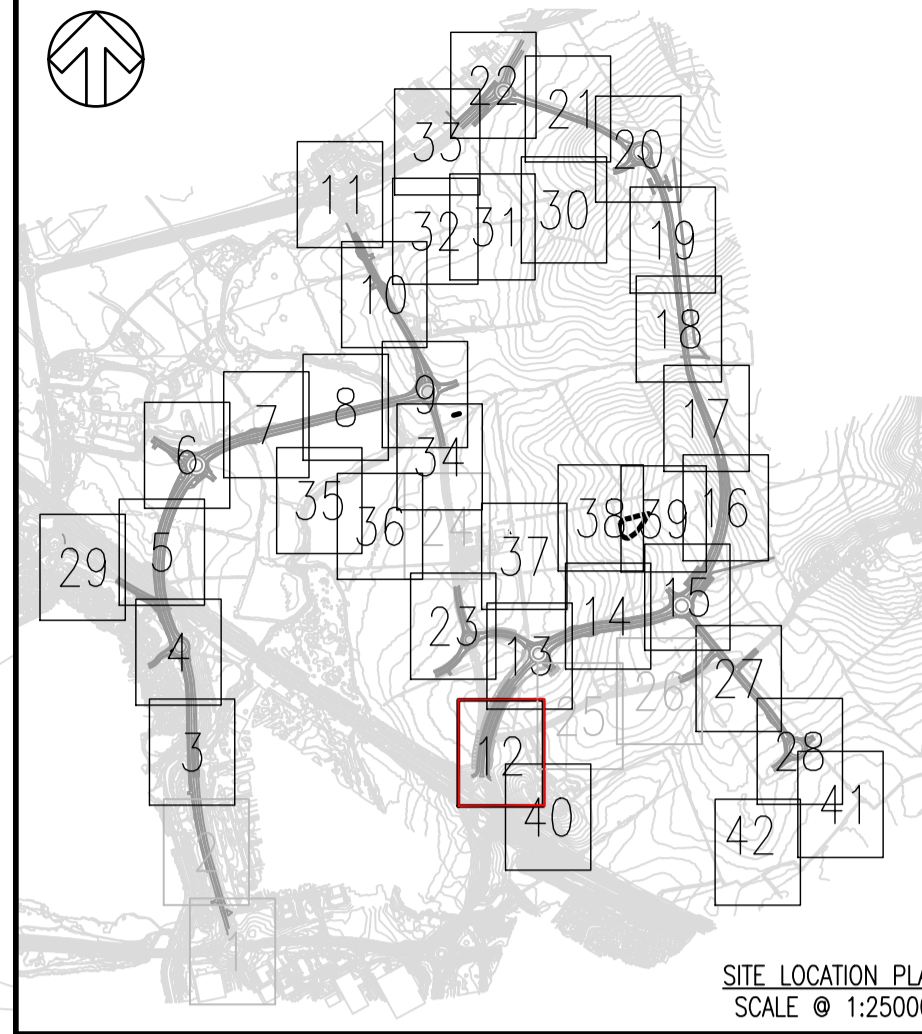
DRAWING No: **MKE-WSP-ZZ-ZZ-CR-0511** REV: **P01**

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SITE LOCATION PLAN  
SCALE @ 1:25000

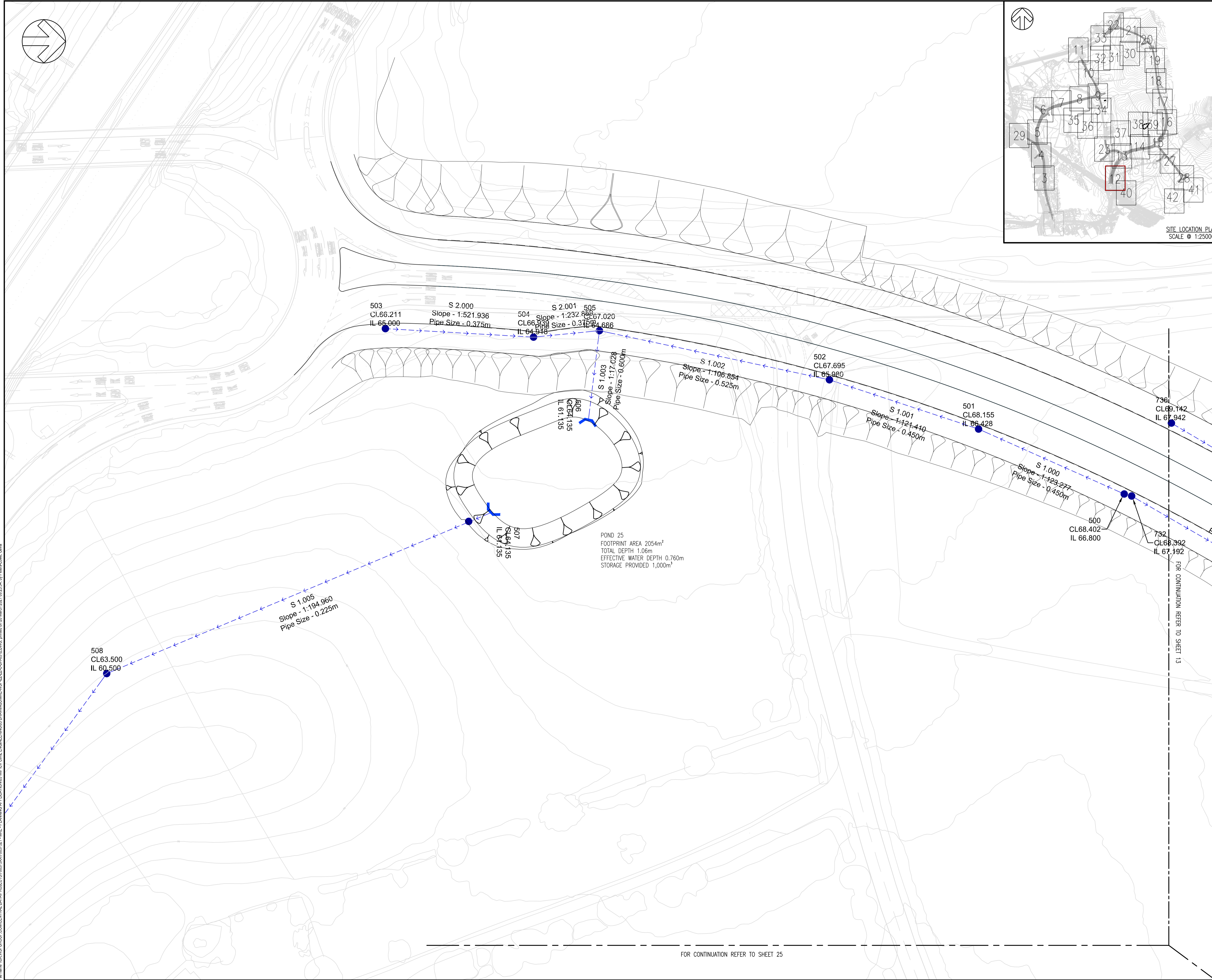
NOTES:

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KEY:

- ATTENUATION BASIN
- SURFACE WATER DRAINAGE
- HEADWALL

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PO1	12/03/2021	OPL	FIRST ISSUE	DSF	SAP
REV	DATE	BY	DESCRIPTION	CHK	APP

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CLIENT: BERKELEY ST JAMES

ARCHITECT: JTP / STEPHEN GEORGE AND PARTNERS

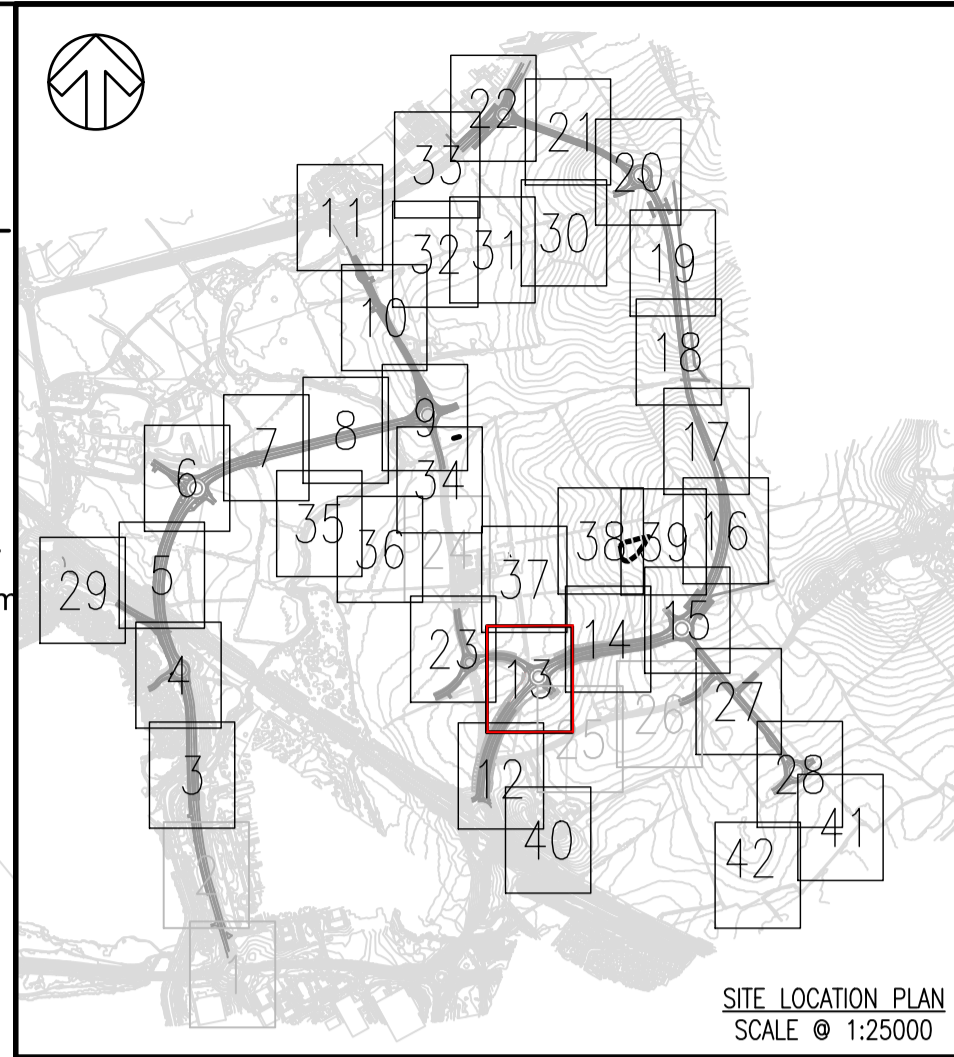
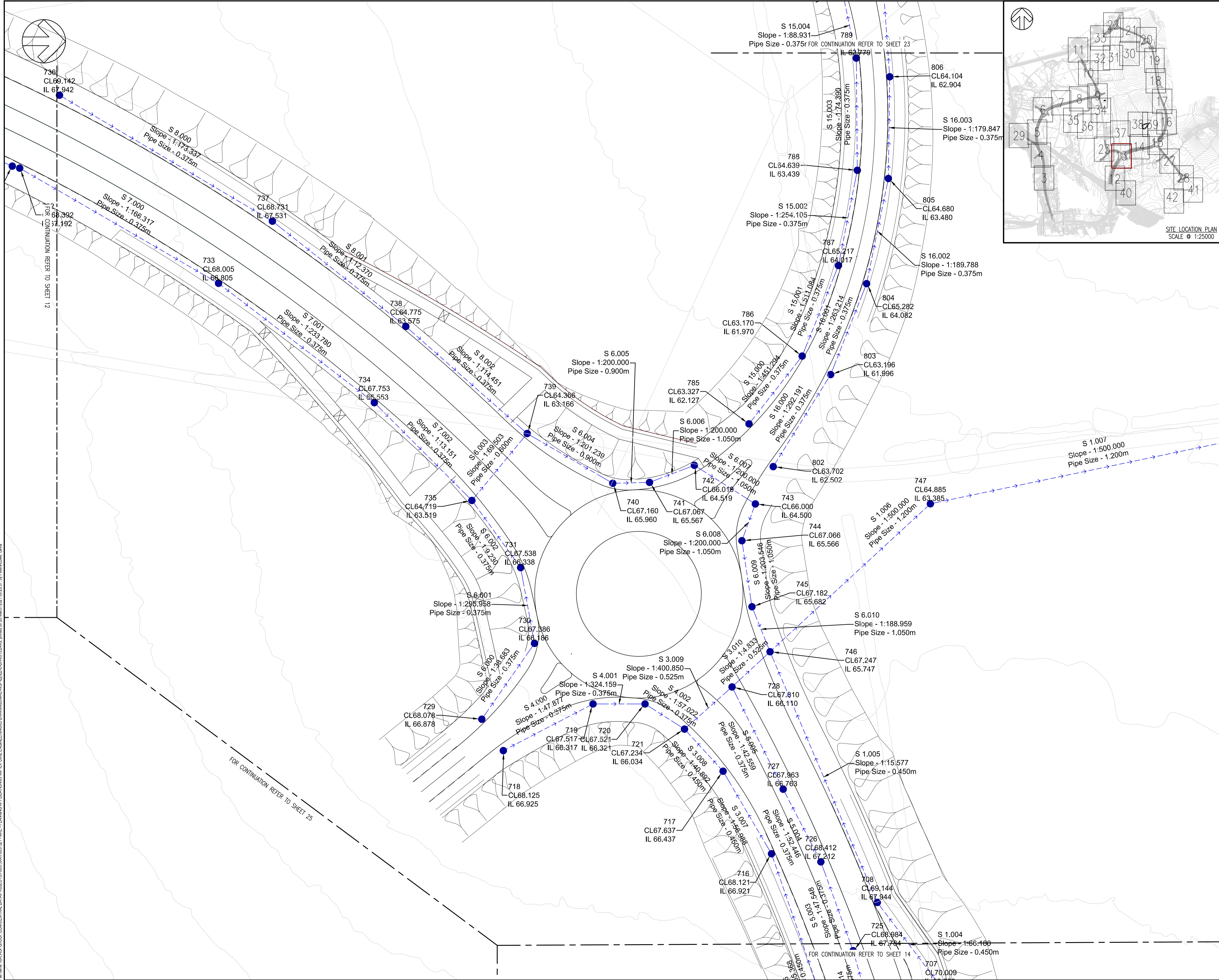
SITE/PROJECT: MILTON KEYNES EAST

TITLE: DRAINAGE PLAN SHEET 12

SCALE @ A1:	1:500	CHECKED:	DSF	APPROVED:	SAP
PROJECT NO:	70057521	DESIGNED:	DSF	DRAWN:	GLG
				DATE:	March 21

DRAWING NO:	MKE-WSP-ZZ-ZZ-CR-0512	REV:	P01
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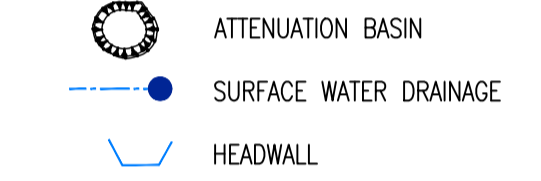
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**KEY:**



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PO1	12/03/2021	OPL	FIRST ISSUE	DSF	SWP
REV	DATE	BY	DESCRIPTION	CHK	APP

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CLIENT: **BERKELEY ST JAMES**

ARCHITECT: **JTP / STEPHEN GEORGE AND PARTNERS**

SITE/PROJECT: **MILTON KEYNES EAST**

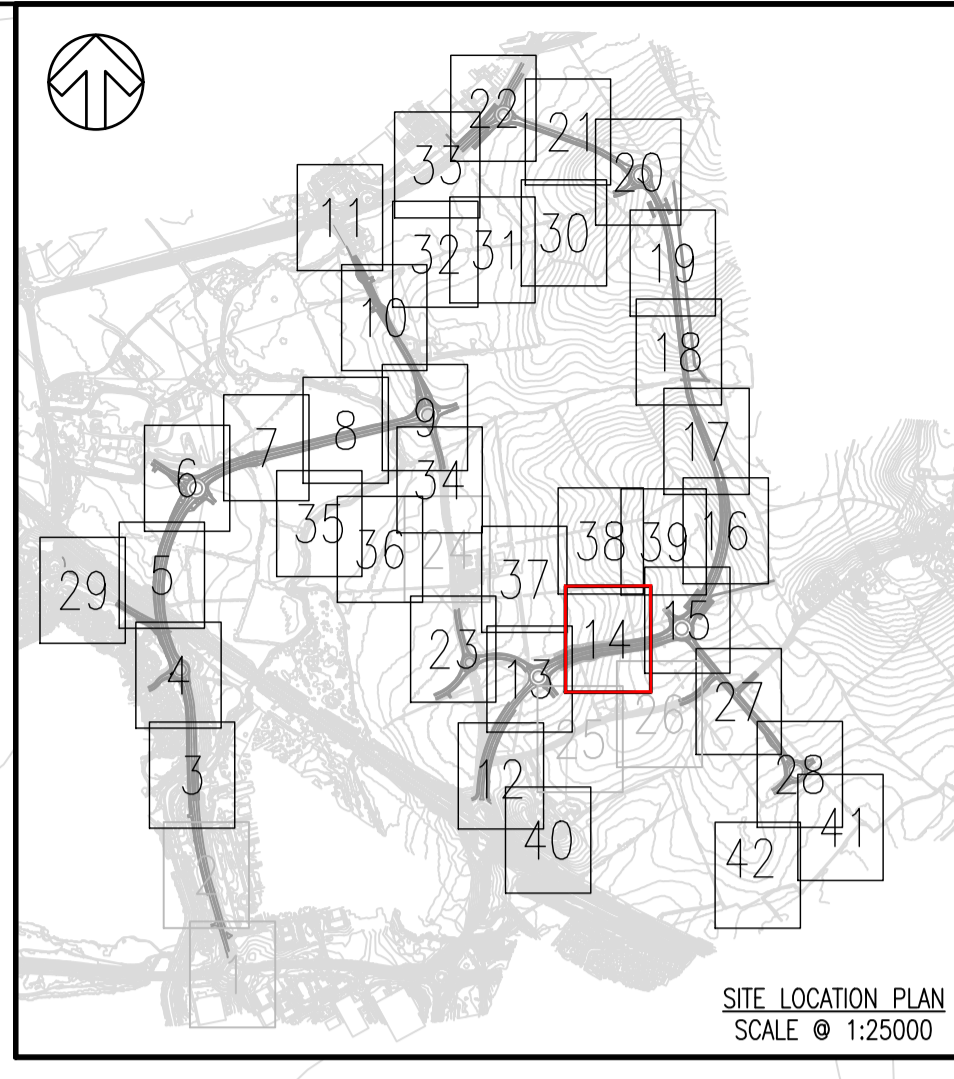
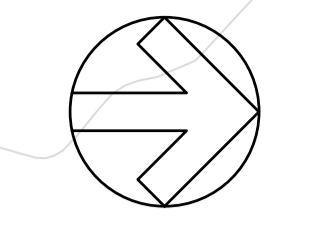
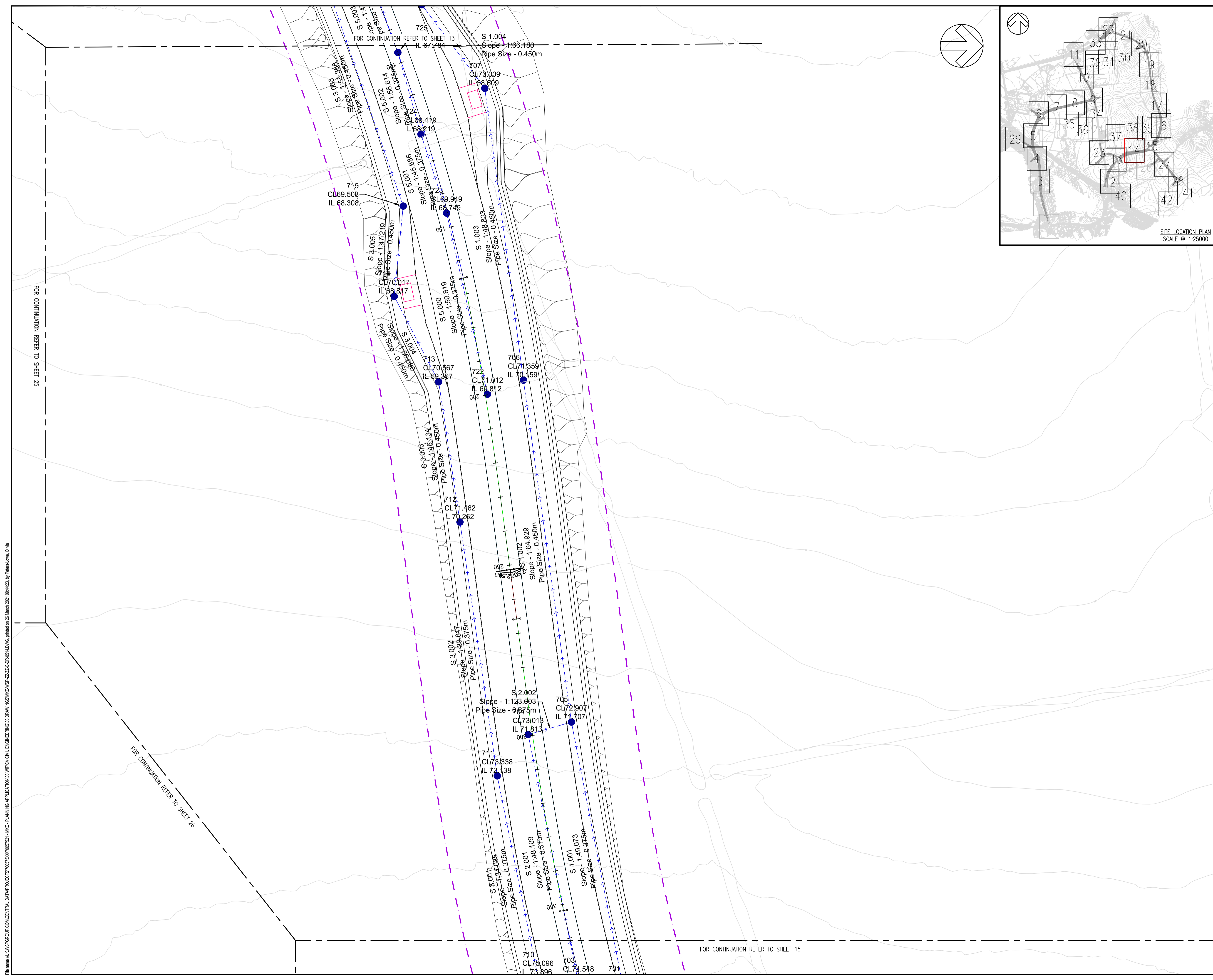
TITLE: **DRAINAGE PLAN SHEET 13**

SCALE @ A1:	1:500	CHECKED:	DSF	APPROVED:	SAP
PROJECT NO:	70057521	DESIGNED:	DSF	DRAWN:	GLG
				DATE:	March 21

DRAWING NO: **MKE-WSP-ZZ-ZZ-CR-0513** REV: **P01**

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File name: I:\UK\WSPGROUP\CENTRAL DATA\PROJECTS\005\000\002\021 - MKE - PLANNING APPLICATIONS\WSP\ZZ-ZZ-CR-0513.DWG, printed on 28 March 2021 09:29:37, by Patrice-Love, Clive



NOTES:

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- ALL OUTFALL LEVELS TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION
- SURFACE WATER RUNOFF IS RESTRICTED TO 4L/S/IMPERMEABLE HECTARE. FOR FURTHER DETAILS OF VORTEX CONTROLS USED AND DISCHARGE RATES PLEASE REFER TOT THE ACCOMPANYING CALCULATIONS
- ALL HEADWALLS TO BE ARCHITECTURALLY CLADDED

KEY:

- ATTENUATION BASIN
- SURFACE WATER DRAINAGE
- HEADWALL

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POI	DATE	BY	DESCRIPTION	CHK	APP
12/03/2021	OPL	FIRST ISSUE		DSF	SAP

DRAWING STATUS: **S0 - WORK IN PROGRESS**

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CLIENT: **BERKELEY ST JAMES**

ARCHITECT: **JTP / STEPHEN GEORGE AND PARTNERS**

SITE/PROJECT: **MILTON KEYNES EAST**

TITLE: **DRAINAGE PLAN SHEET 14**

SCALE @ A1:	CHECKED:	APPROVED:
1:500	DSF	SAP

PROJECT NO:	DESIGNED:	DRAWN:	DATE:
70057521	DSF	GLG	March 21

DRAWING No:	REV:
MKE-WSP-ZZ-ZZ-C-DR-0514	P01

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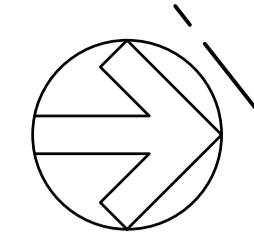
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FOR CONTINUATION REFER TO SHEET 25

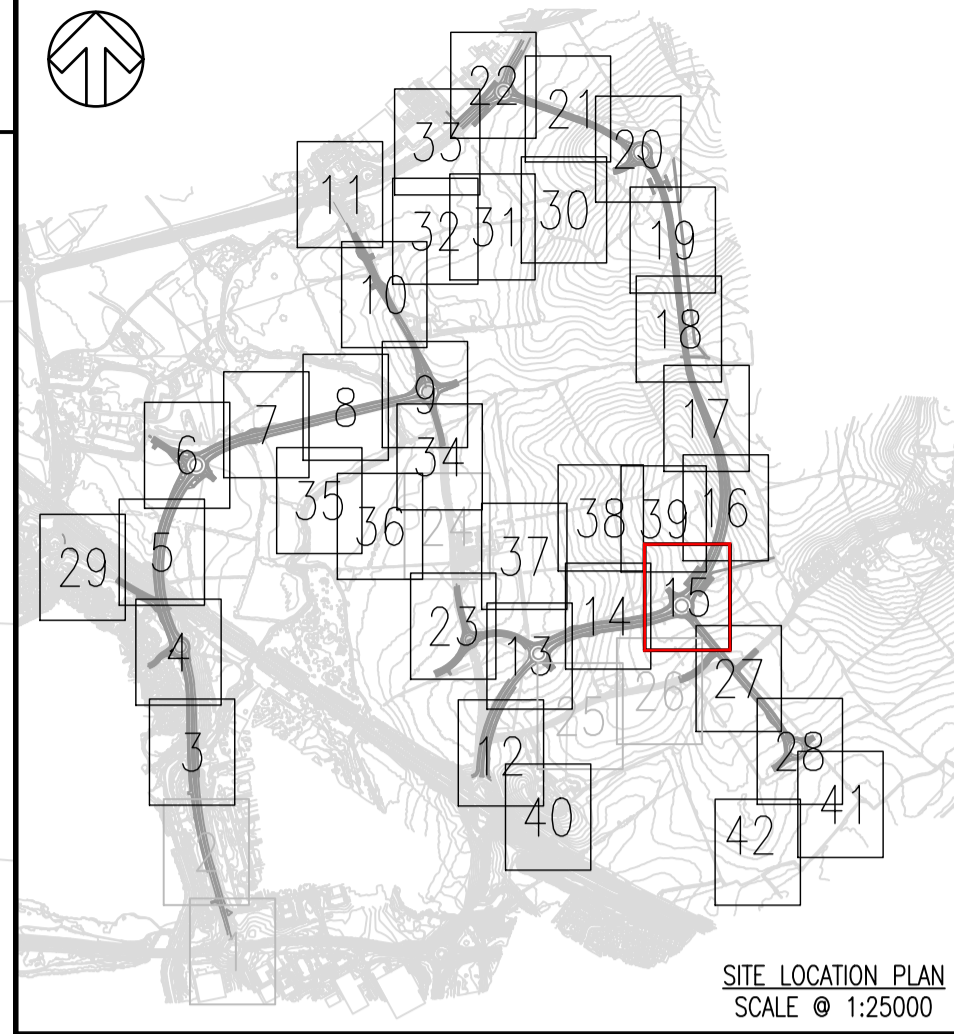
FOR CONTINUATION REFER TO SHEET 26

FOR CONTINUATION REFER TO SHEET 15

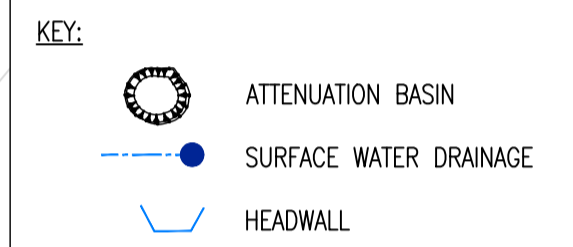




FOR CONTINUATION REFER TO SHEET 14



- NOTES:
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  - ALL HEADWALLS TO BE ARCHITECTURALLY CLADDED



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PO1	12/03/2021	OPL	FIRST ISSUE	DSF	SAP
REV	DATE	BY	DESCRIPTION	CHK	APP

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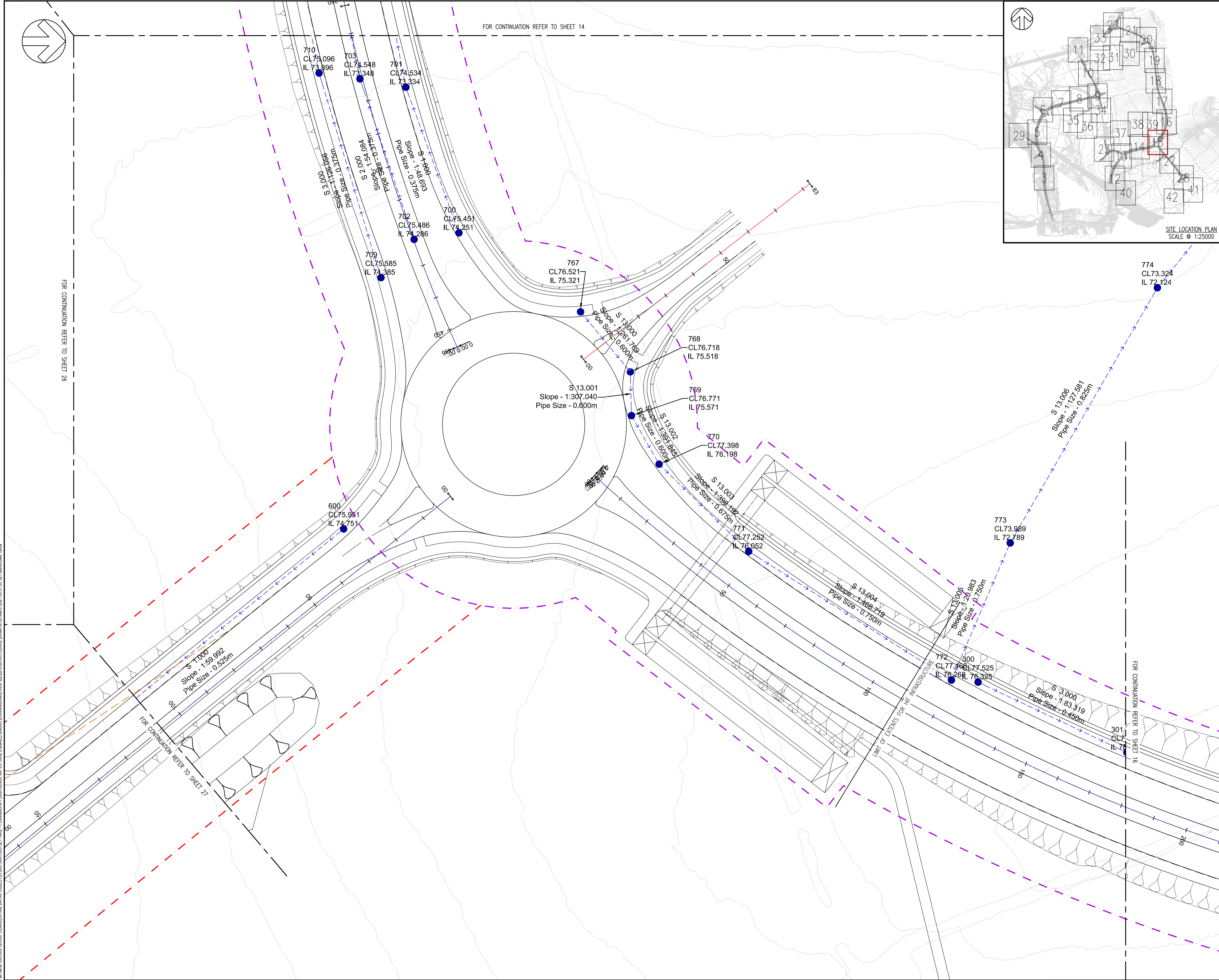
SITE/PROJECT: **MILTON KEYNES EAST**

TITLE: **DRAINAGE PLAN SHEET 15**

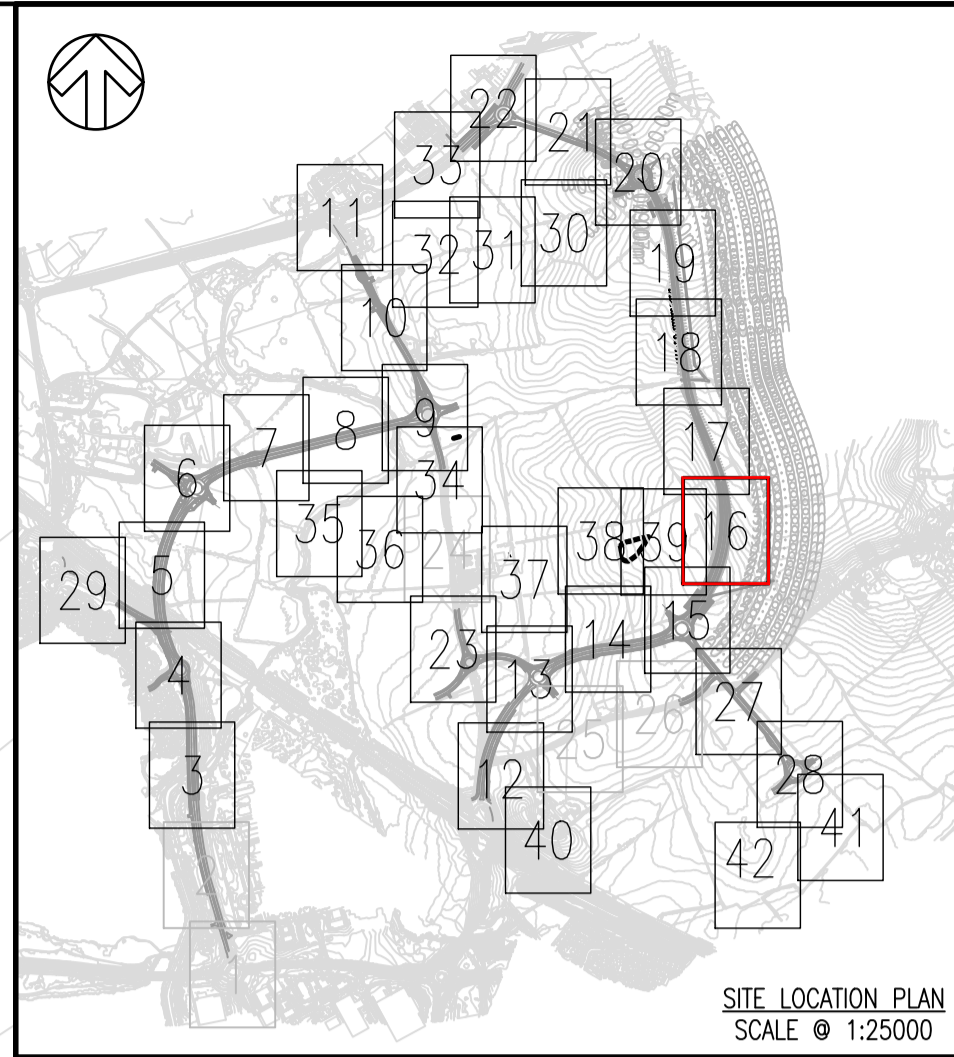
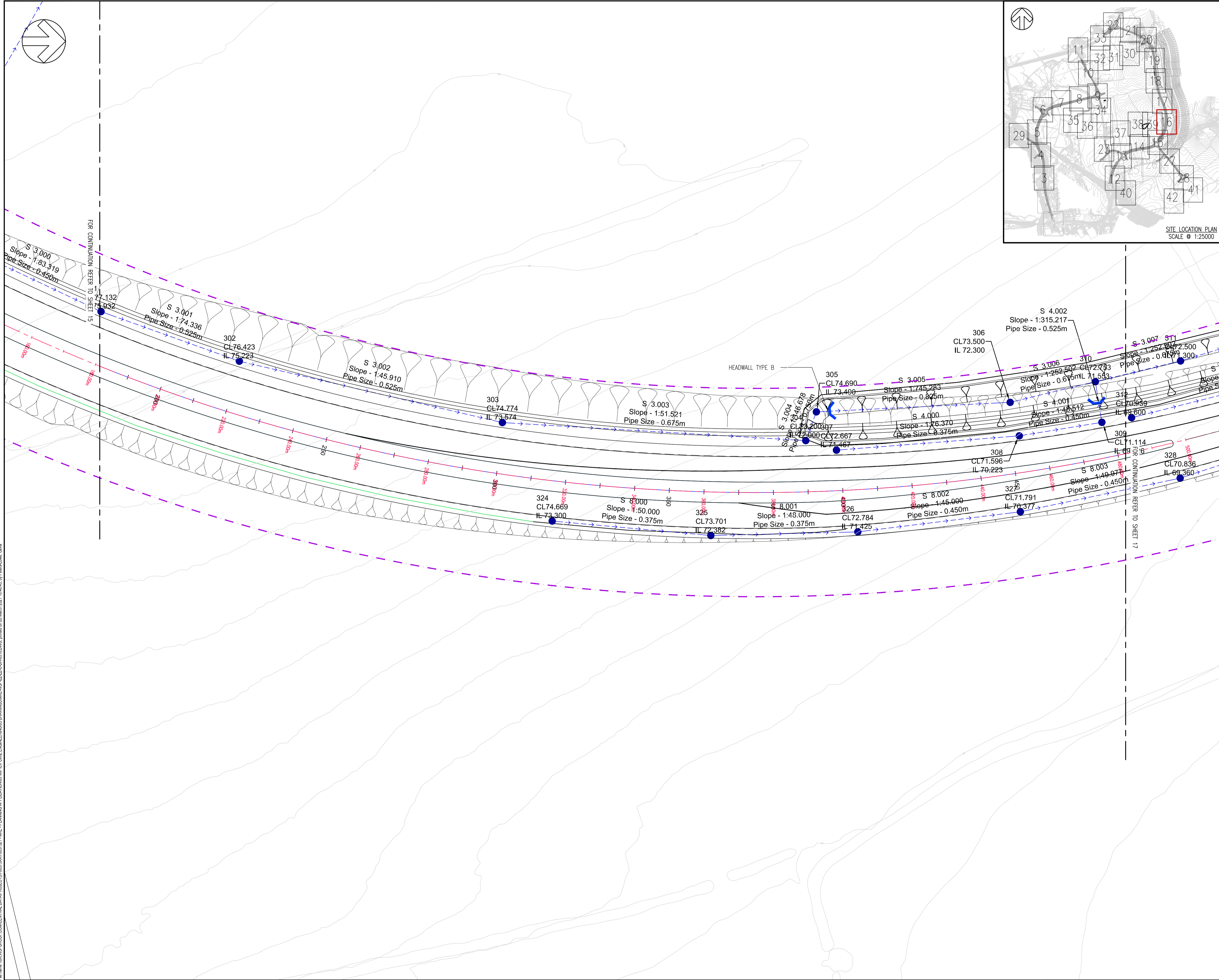
SCALE @ A1:	1:500	CHECKED:	DSF	APPROVED:	SAP
PROJECT NO:	70057521	DESIGNED:	DSF	DRAWN:	GLG
				DATE:	November 20

DRAWING No: **MKE-WSP-ZZ-ZZ-C-DR-0515** REV: **P01**

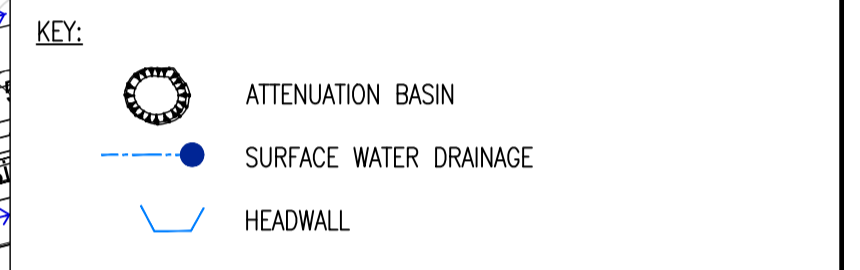
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PO1	12/03/2021	OPL	FIRST ISSUE	DSF	SAP
REV	DATE	BY	DESCRIPTION	CHK	APP

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ARCHITECT: **JTP / STEPHEN GEORGE AND PARTNERS**

SITE/PROJECT: **MILTON KEYNES EAST**

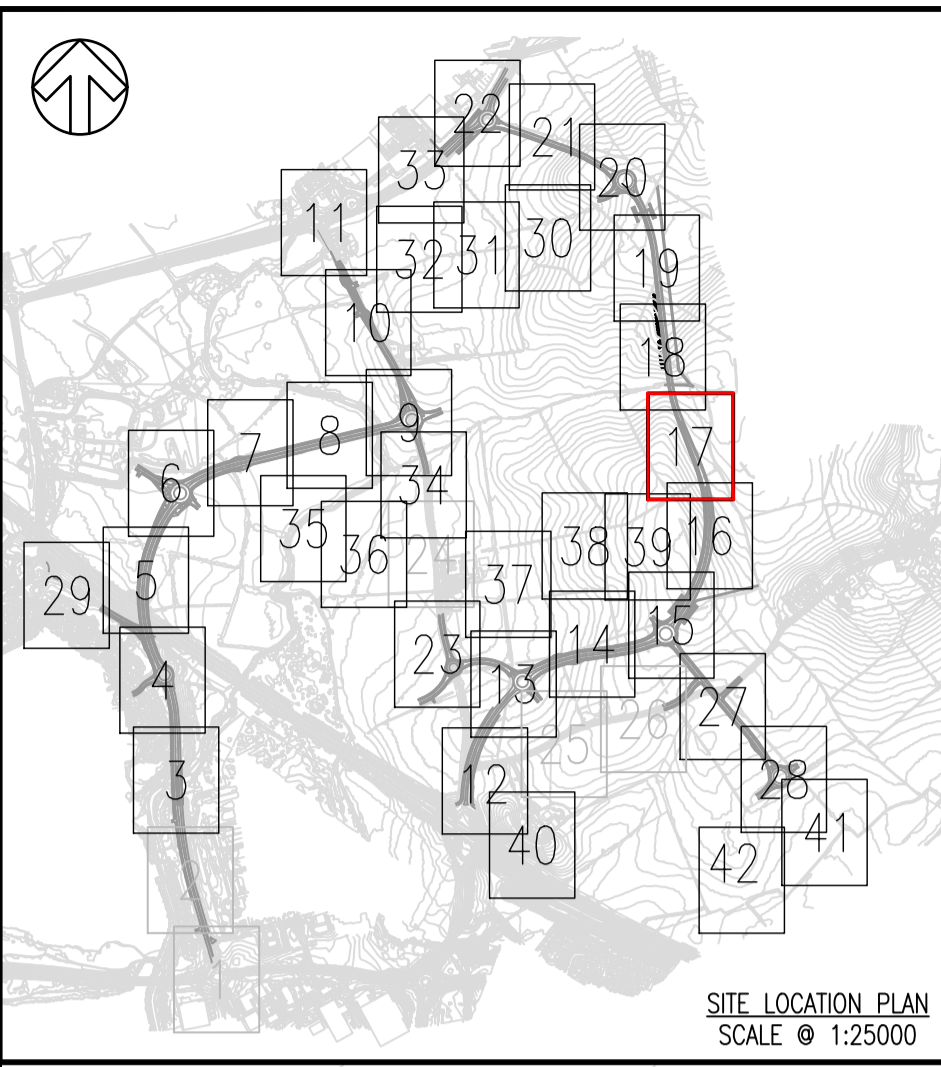
TITLE: **DRAINAGE PLAN SHEET 16**

SCALE @ A1:	1:500	CHECKED:	DSF	APPROVED:	SAP
PROJECT NO:	70057521	DESIGNED:	DSF	DRAWN:	GLG
				DATE:	November 20

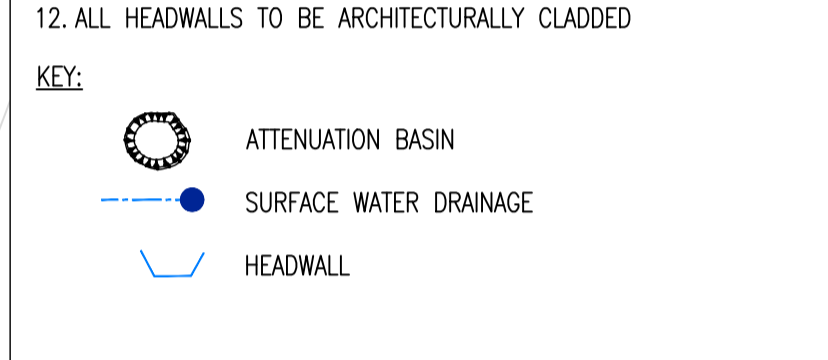
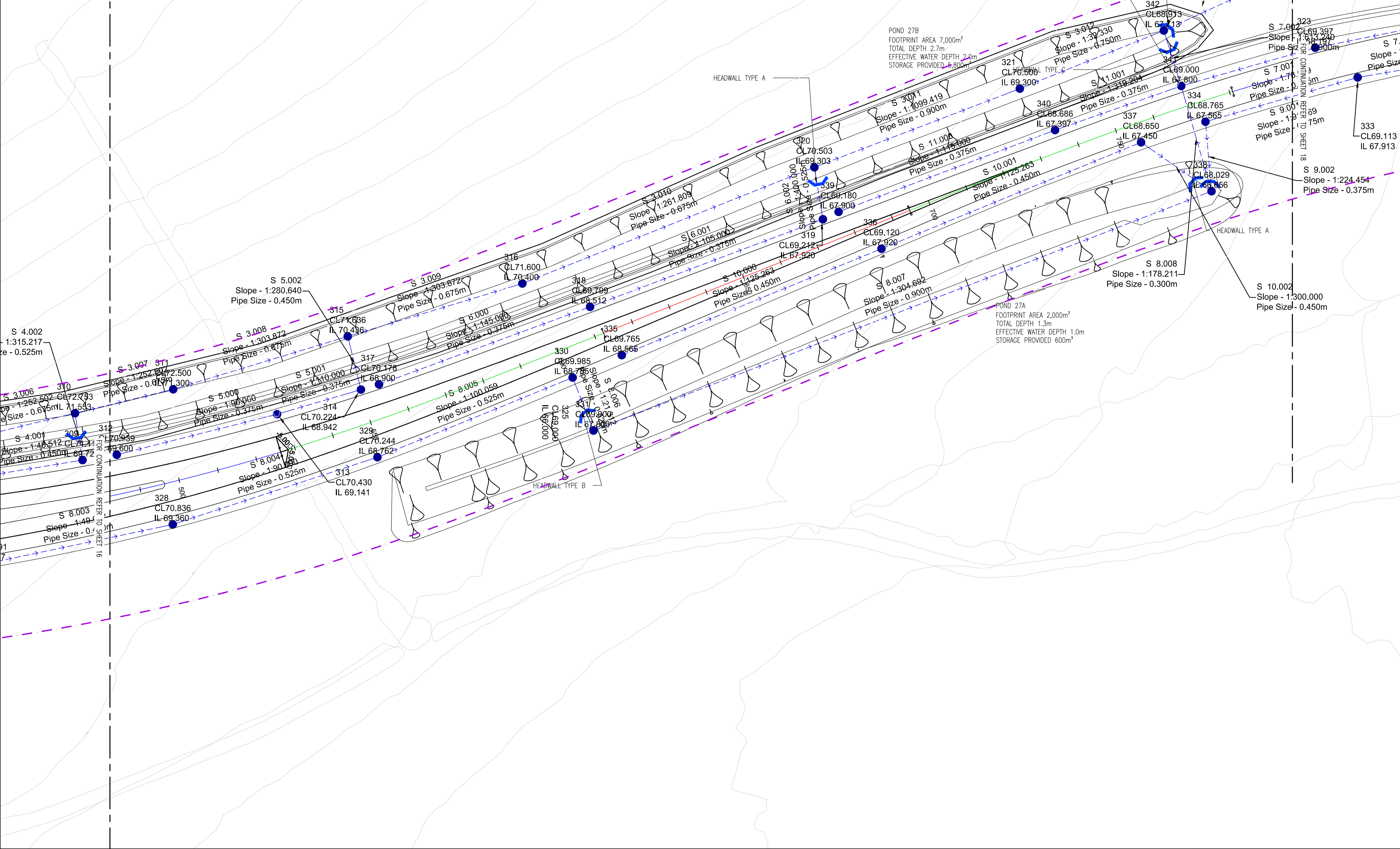
DRAWING No: **MKE-WSP-ZZ-ZZ-C-DR-0516** REV: **P01**

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SITE LOCATION PLAN  
SCALE @ 1:25000



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POI	DATE	BY	DESCRIPTION	CHK	APP
PO1	12/03/2021	OPL	FIRST ISSUE	DSF	SAP

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SITE/PROJECT: **MILTON KEYNES EAST**

TITLE: **DRAINAGE PLAN SHEET 17**

SCALE @ A1:	CHECKED:	APPROVED:
1:500	DSF	SAP

PROJECT NO:	DESIGNED:	DRAWN:	DATE:
70057521	DSF	GLG	November 20

DRAWING No:	REV:
MKE-WSP-ZZ-ZZ-C-DR-0517	PO1

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