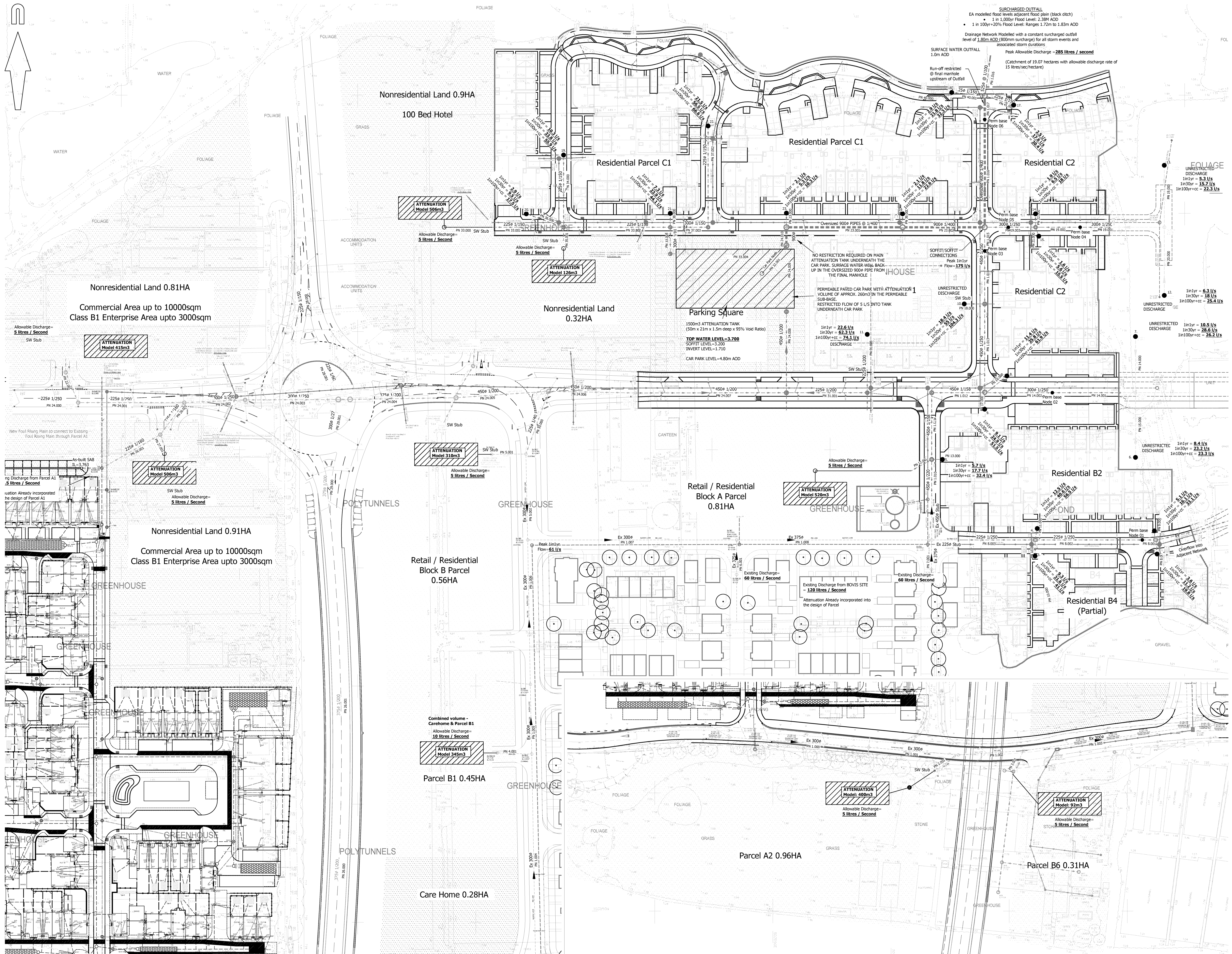




P6	B2 future attenuation tank altered at PN 3,000. (OJN)	SF	11/01/2019
P5	Sub catchment location discharge rates added, pipe numbers updated. Attenuation Tank volumes amended for future plots and note on surcharged outfall added. (OJN)	SF	10/01/2019
P4	Drainage updated. (OJN)	SF	14/03/2018
P3	Foul drainage added. (OJN)	SF	08/03/2018
P2	Drainage layout updated. (OJN)	SF	06/02/2018

rev.	amendment	checked	date
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client
PERSIMMON HOMES THAMES VALLEY

project

NORTH LITTLEHAMPTON PHASE 2
SITE WIDE DRAINAGE STRATEGY

scale	1:500	drawn by	OJN	checked by	SF
date	NOVEMBER 2017		cad file	MASTER.DWG	

DRAINAGE STRATEGY DRAWING
WEST OF THE WETLANDS

drawing number	rev.
A/PHLITTLE.2/DS	P6

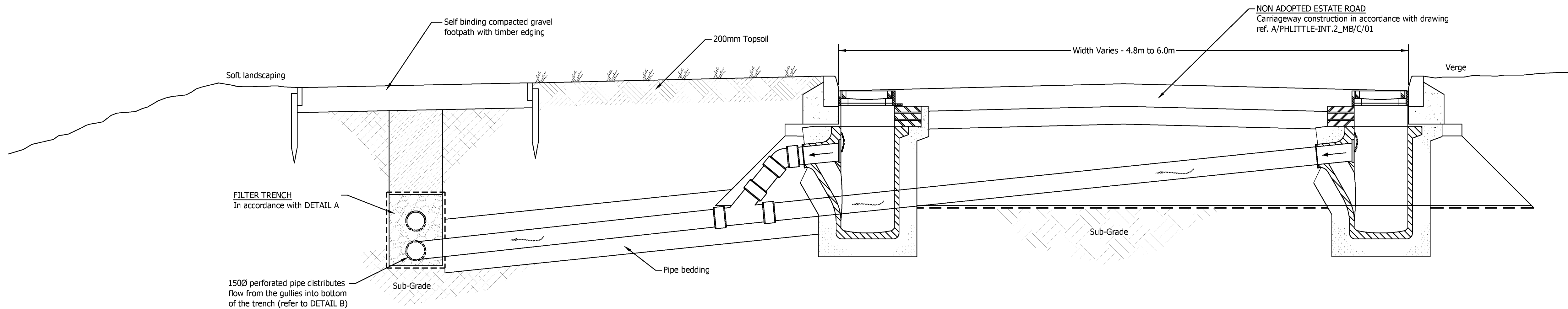
APPENDIX J: Permeable Sub-base Road & Filter Trenches

A1 ORIGINAL

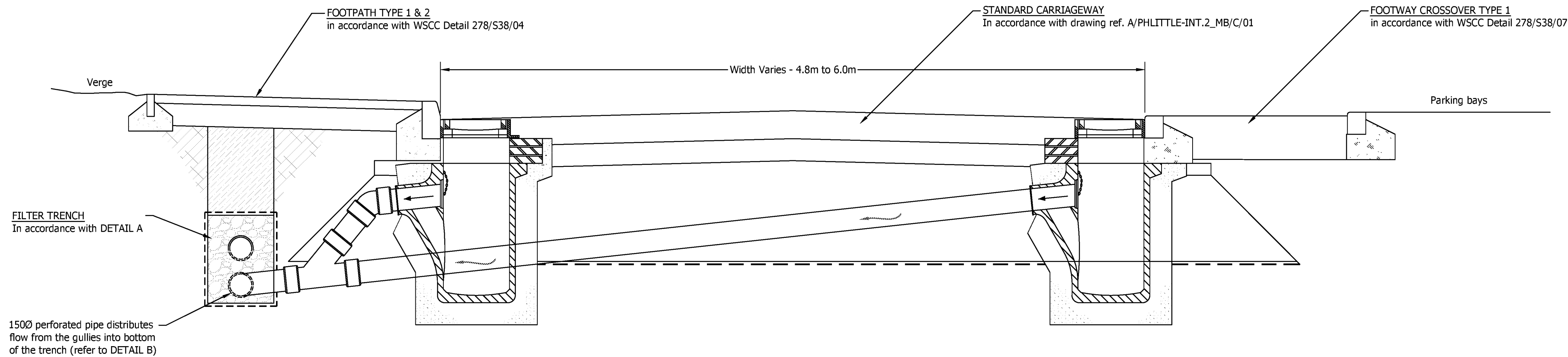
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NOTES

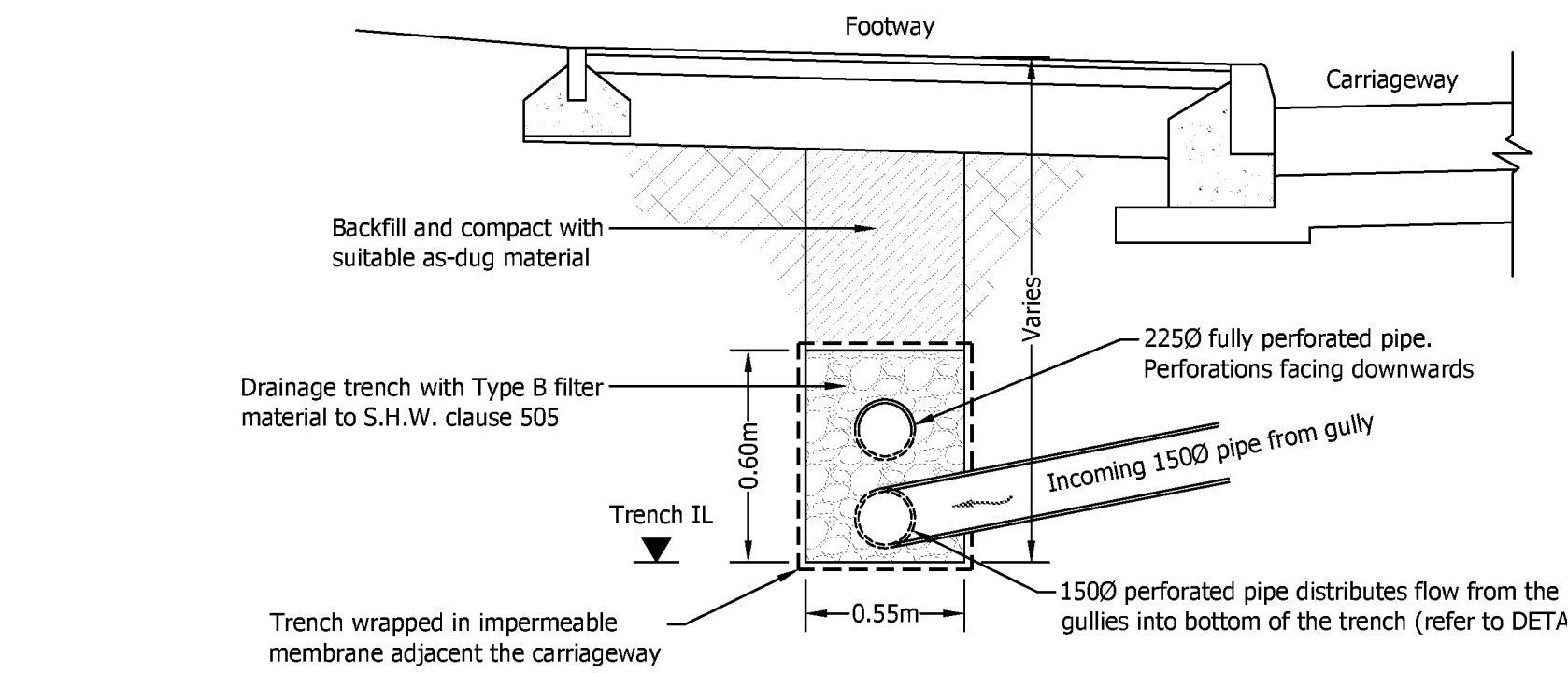
- This drawing is not to be scaled.
- To be read in conjunction with:
Drainage General Arrangement drawing reference
A/PHLITTLE-INT.1/112-1, -/2;
Construction Treatments drawing reference
A/PHLITTLE-INT.1/111-1, -/2;
Adopted & Non Adopted Roads Construction Details drawing
reference A/PHLITTLE-INT.2_MB/C/01.



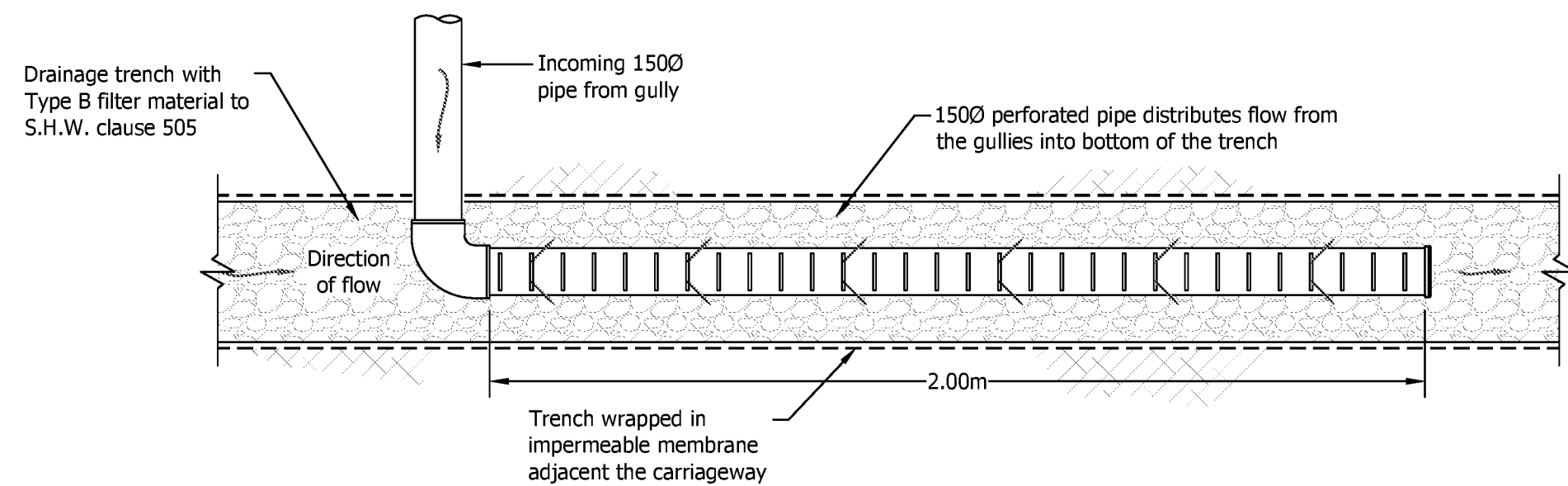
TYPICAL CROSS SECTION THROUGH FILTER TRENCH AND ESTATE ROAD



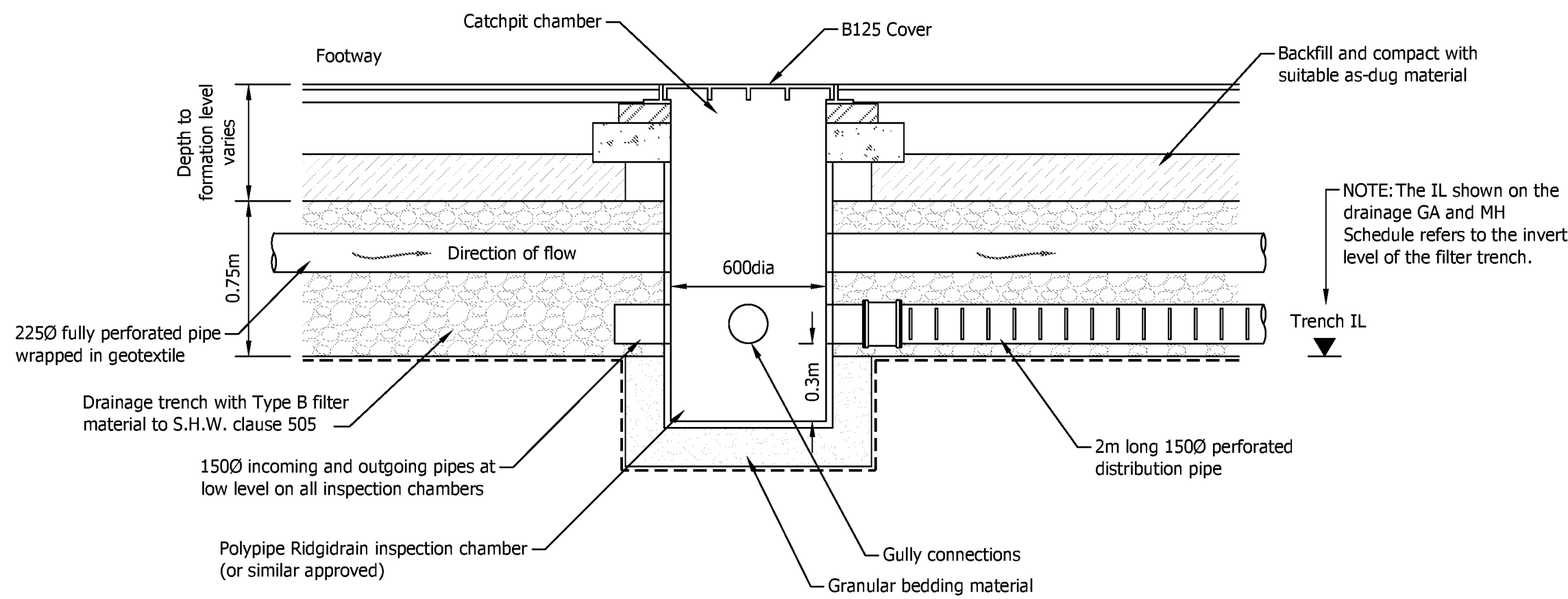
TYPICAL CROSS SECTION THROUGH FILTER TRENCH AND ROAD 6



DETAIL A: FILTER TRENCH CROSS SECTION



DETAIL B: DISTRIBUTION PIPE PLAN VIEW



DETAIL C: LONG SECTION THROUGH FILTER TRENCH AND INSPECTION CHAMBER

FOR CONSTRUCTION

C1	Initial construction issue. (IC)	SF	20/02/2018
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rev.	amendment	checked	date
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mb
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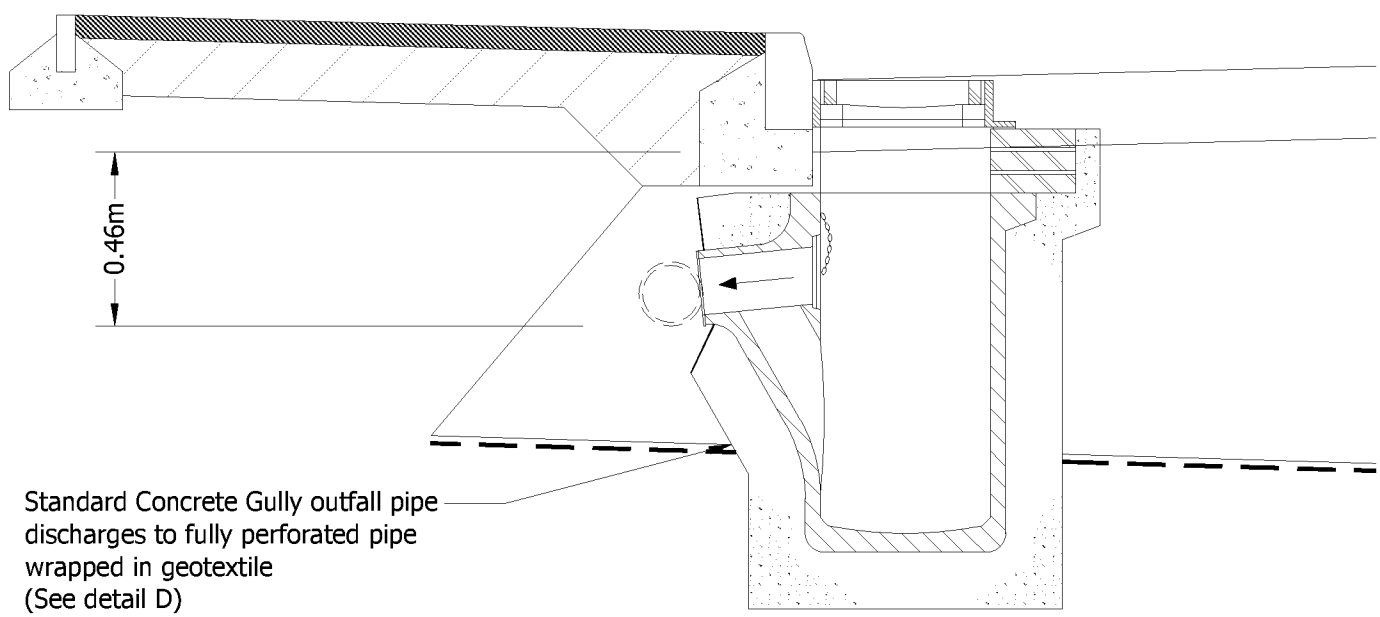
client	PERSIMMON HOMES THAMES VALLEY		
project	NORTH LITTLEHAMPTON PHASE 2 PARCEL C1 AND PART PARCELS B2, B4 AND C2		
scale	1:20	drawn by	IC checked by SF
date	FEBRUARY 2018	cad file	MBC01.DWG
title	FILTER TRENCH CONSTRUCTION DETAIL		
drawing number	A/PHLITTLE-INT.2_MB/F/03		rev. C1

A1 ORIGINAL

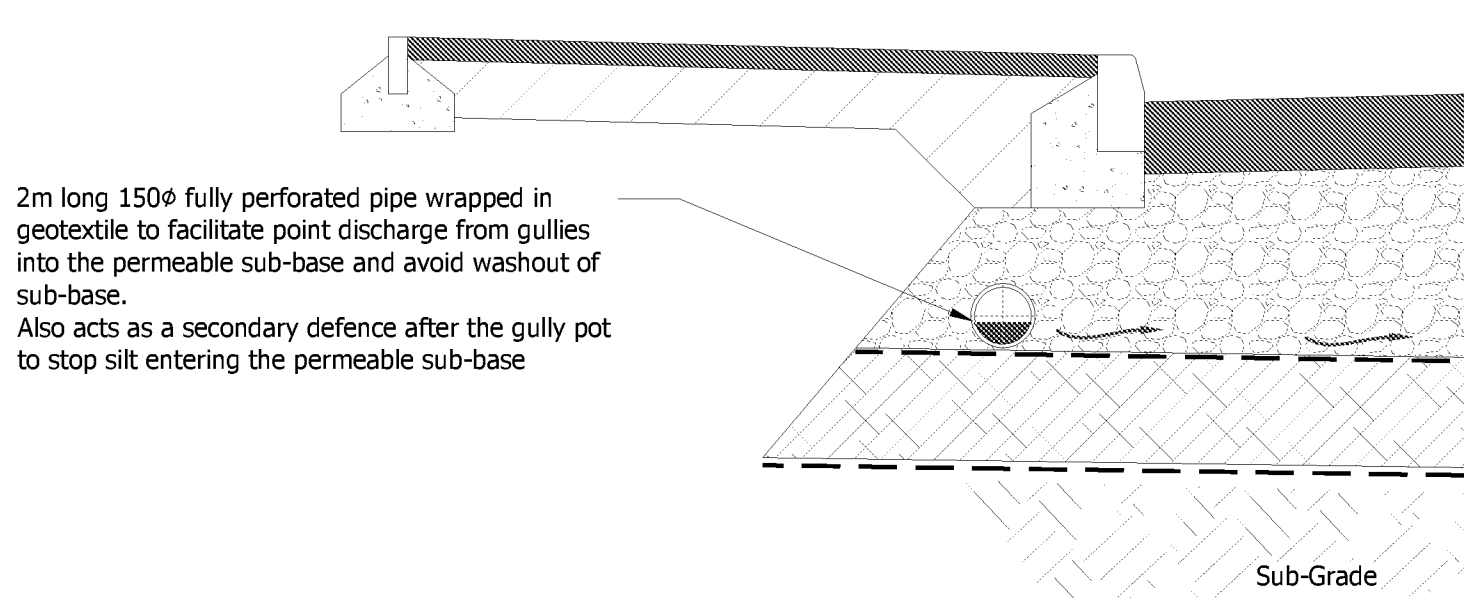
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NOTES

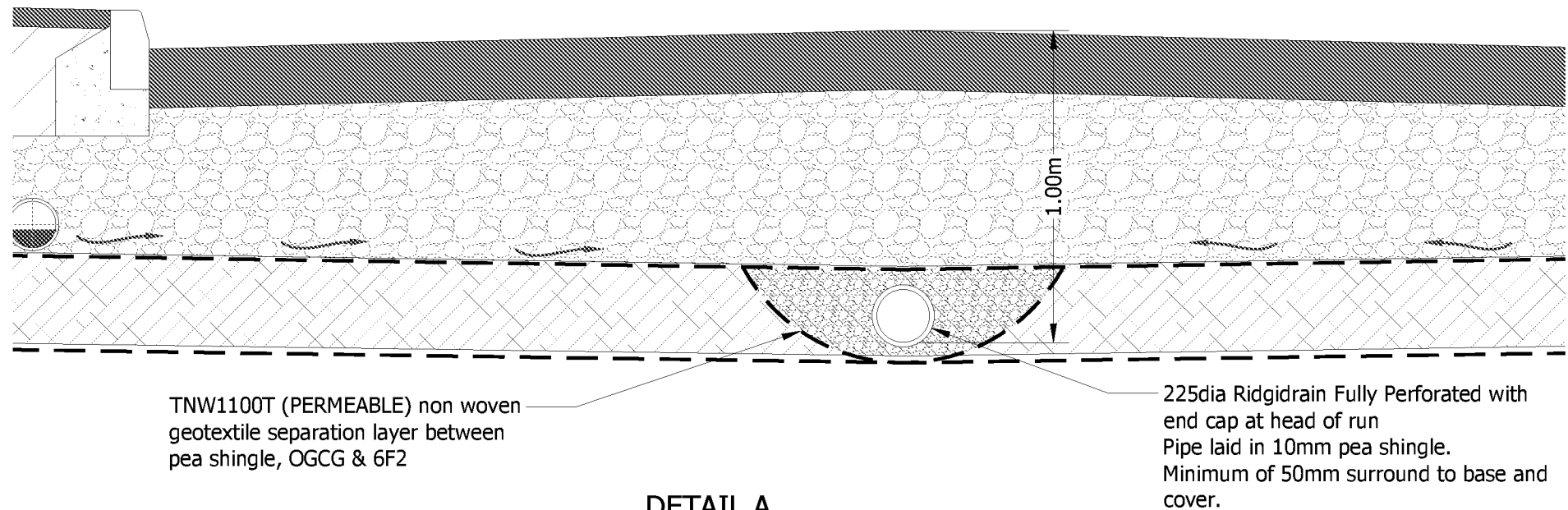
- Carriageway sub-base and capping layer thicknesses are to be determined in accordance with the WSCC detail numbered S278/38/21, unless otherwise agreed.
- The CBR of the subgrade been assumed to be 2%. The Contractor is responsible for determining the subgrade CBR values prior to commencement of the works via long term laboratory testing. The CBR test locations, values and hence the road foundation thicknesses shall be agreed in writing with the Highway Authority prior to constructing these elements.
- No material within 450mm of the carriageway surface shall be frost susceptible.
- Where directed by the Engineer the Contractor shall carry out additional testing in order to prove the CBR value of the sub-grade material.
- All works and materials shall comply with the Highways Agency Manual of Contract Documents for Highway Works (MCHW) and West Sussex County Council Standard details.



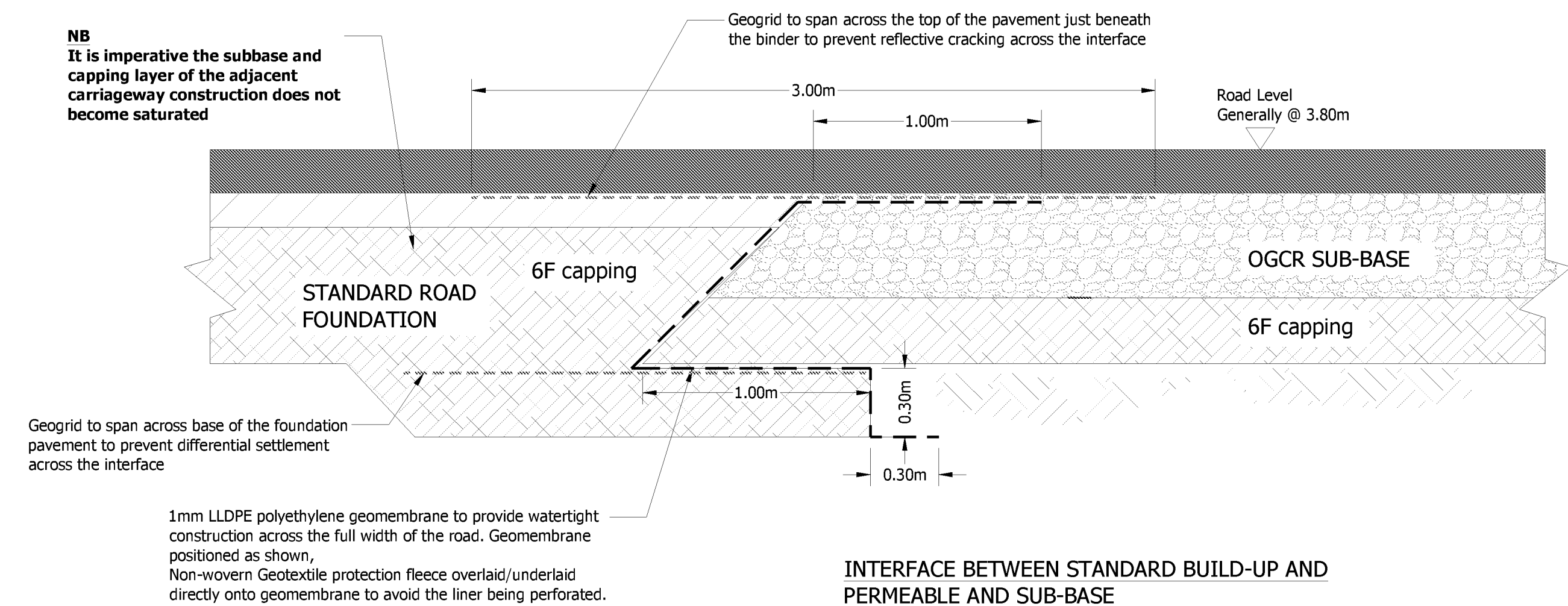
DETAIL C
GULLY CONNECTION INTO PERMEABLE SUB-BASE



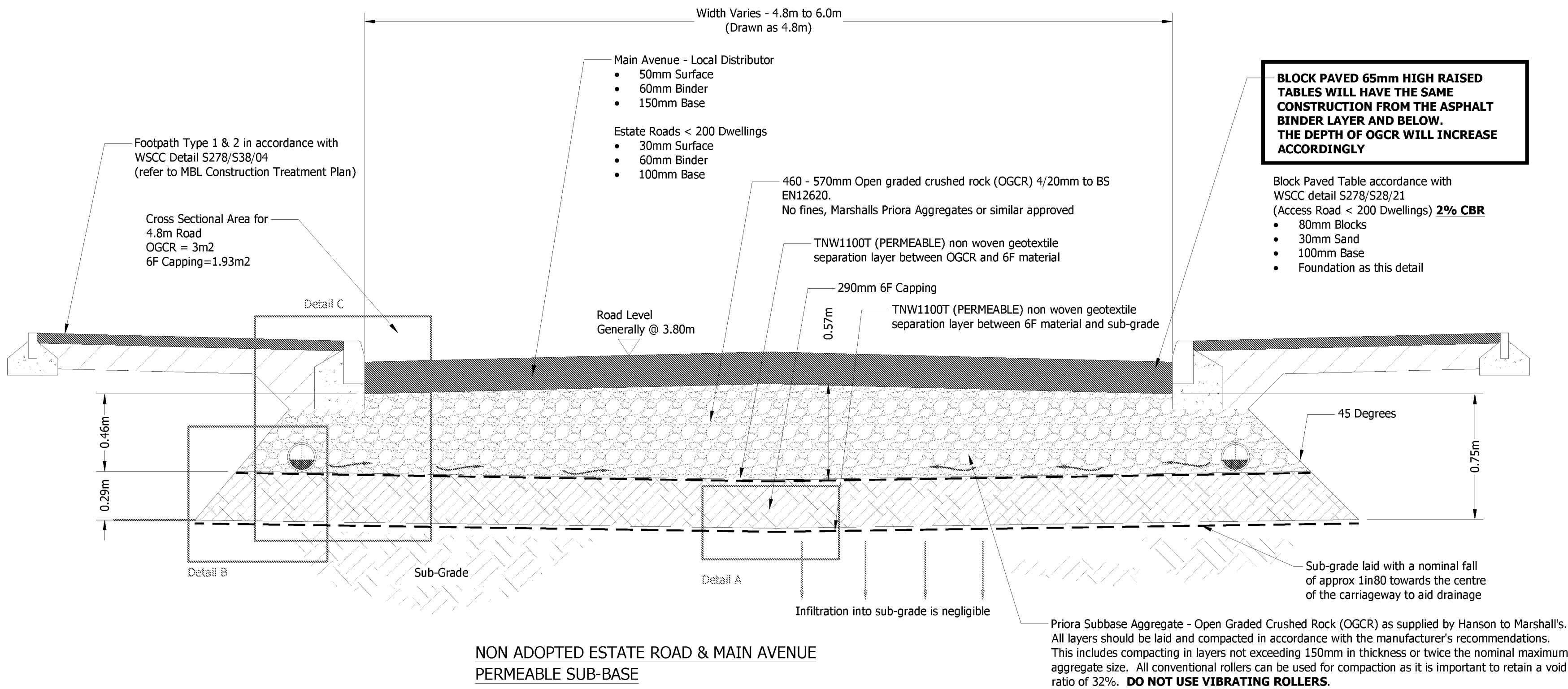
DETAIL B
PERFORATED DISPERSION PIPE WITHIN SUB-BASE



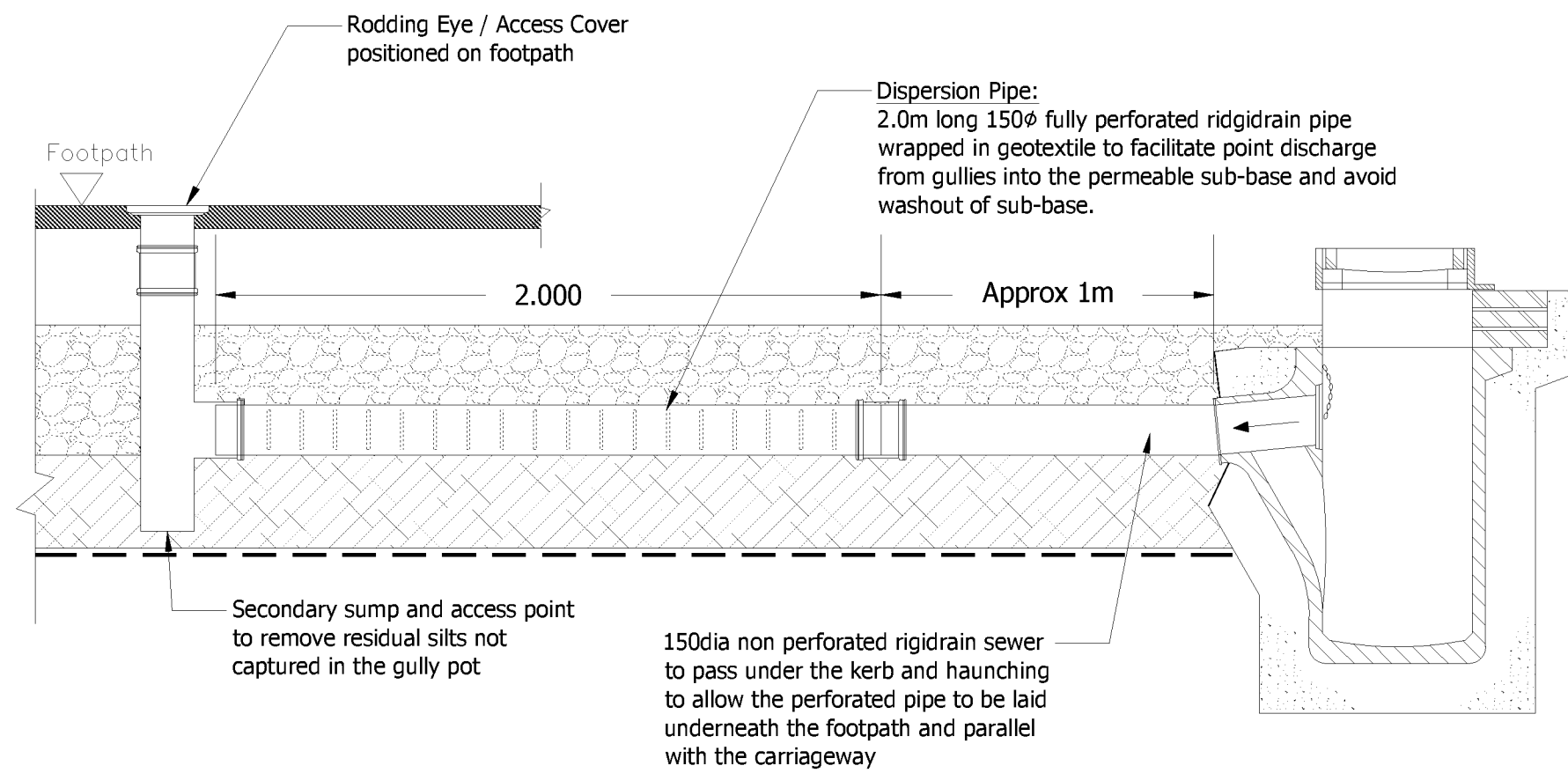
DETAIL A
COLLECTION PIPE TO DISCHARGE INTO SEWERS
FALLING IN OPPOSITE DIRECTION TO CARRIAGEWAY



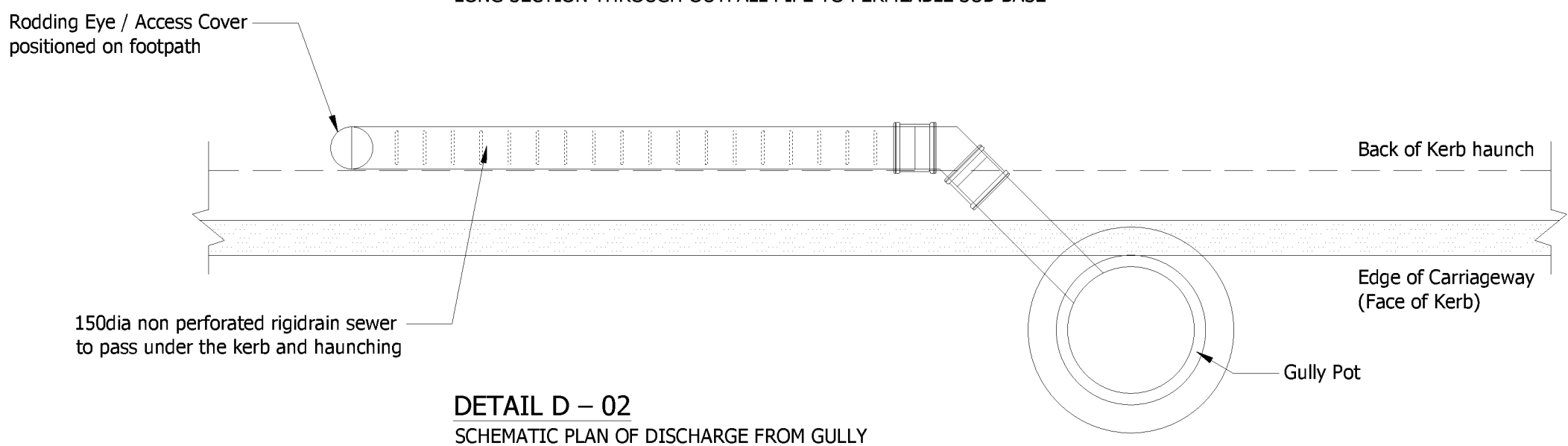
INTERFACE BETWEEN STANDARD BUILD-UP AND
PERMEABLE AND SUB-BASE



NON ADOPTED ESTATE ROAD & MAIN AVENUE
PERMEABLE SUB-BASE



DETAIL D - 01
LONG SECTION THROUGH OUTFALL PIPE TO PERMEABLE SUB-BASE



DETAIL D - 02
SCHEMATIC PLAN OF DISCHARGE FROM GULLY

FOR CONSTRUCTION

rev.	amendment	checked	date
C2	References to flood levels on permeable sub-base roads removed. (OJN)	SF	10/01/2019
C1	Construction issue. (OJN)	SF	09/02/18
T1	Initial issue. (SF)	SF	08/02/18



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client	PERSIMMON HOMES THAMES VALLEY		
project	NORTH LITTLEHAMPTON PHASE 2 PARCEL C1 AND PART PARCEL B2, B4 AND C2		
scale	1:20	drawn by	SF
date	FEBRUARY 2018	checked by	SF
cad file	MBC01.DWG		
title	PERMEABLE SUB-BASE ROAD CONSTRUCTION DETAILS		
drawing number	A/PHLITTLE-INT.2_MB/F/02		rev. C2

APPENDIX K: Free Discharge Rates from Phase 2 Sub-Catchment

Land North of Toddington Lane, Drainage Strategy, West of Wetlands

Parcels B2, B4 Partial, C1, C2 & C4

Sub Catchment Locations	Windes Pipe Number	Critical Storm (1in100yr event)	Peaks Discharge Rates Litres / Sec (Critical Storm)			Flood volume for 1in100yr+CC
			1in1yr	1in30yr	1in100yr +CC	
1	8.000	15min	3.6	11.2	19.8	0.45
2	9.000	15min	5.1	16.1	33.1	0
3	10.001	15min	9.3	31.6	41	16.8
4	11.000	15min	12.5	40.6	56.5	5.1
5	13.000	30min	5.7	17.7	32.4	0
6	15.000	15min	8.4	23.2	23.3	12.4
7	14.000	15min	10.5	28.6	26.2	16.5
8	16.000	15min	11.4	35.8	61.9	0.435
9	17.000	30min	9.1	24.9	51.5	0.68
10	18.000	15min	18.4	55	104.3	0
11	31.000	15min	22.6	62.3	74.1	23.5
12	20.000	15min	6.3	18	25.4	5.5
13	19.000	15min	5.3	15.7	22.3	3.5
14	22.000	240min	1.9	6.5	18	0
15	21.000	240min	1.6	5.6	15.5	0
16	39.000	240min	2.1	11.8	22.6	0
17	41.000	240min	2.5	17.6	30.4	0
18	40.001	240min	2.9	21.8	32.3	0
19	34.000	15min	10.3	33.8	55.9	0
20	36.000	15min	2.9	9.5	17.5	0
21	38.000	15min	7.3	23.9	44.1	0
22	37.002	15min	21.5	56.5	66.6	0
23	23.000	240min	2.1	5.3	10.3	0

UNRESTRICTED
DISCHARGE

6. ● IL=4.000
IL=2.400

95-100

5. ● PN 13.000

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HAN

HAN

HAT

WOL

WOL

WOL

WOL

4. ●

2. ●

PN 8.002

PN 8.002

Perm base
Node 01

PN 8.001

PN 8.000

1. ●

117

118

119

3520C

2420A

2420A

2420A

M

M

U

V

V

V

V

B4

LEAP

SW4021
Wetland Stripped Water Levels
Critical 1hr/1 year = 2.45m
Critical 1hr/30 year = 3.26m
Critical 1hr/100-yr = 4.00m

125

126

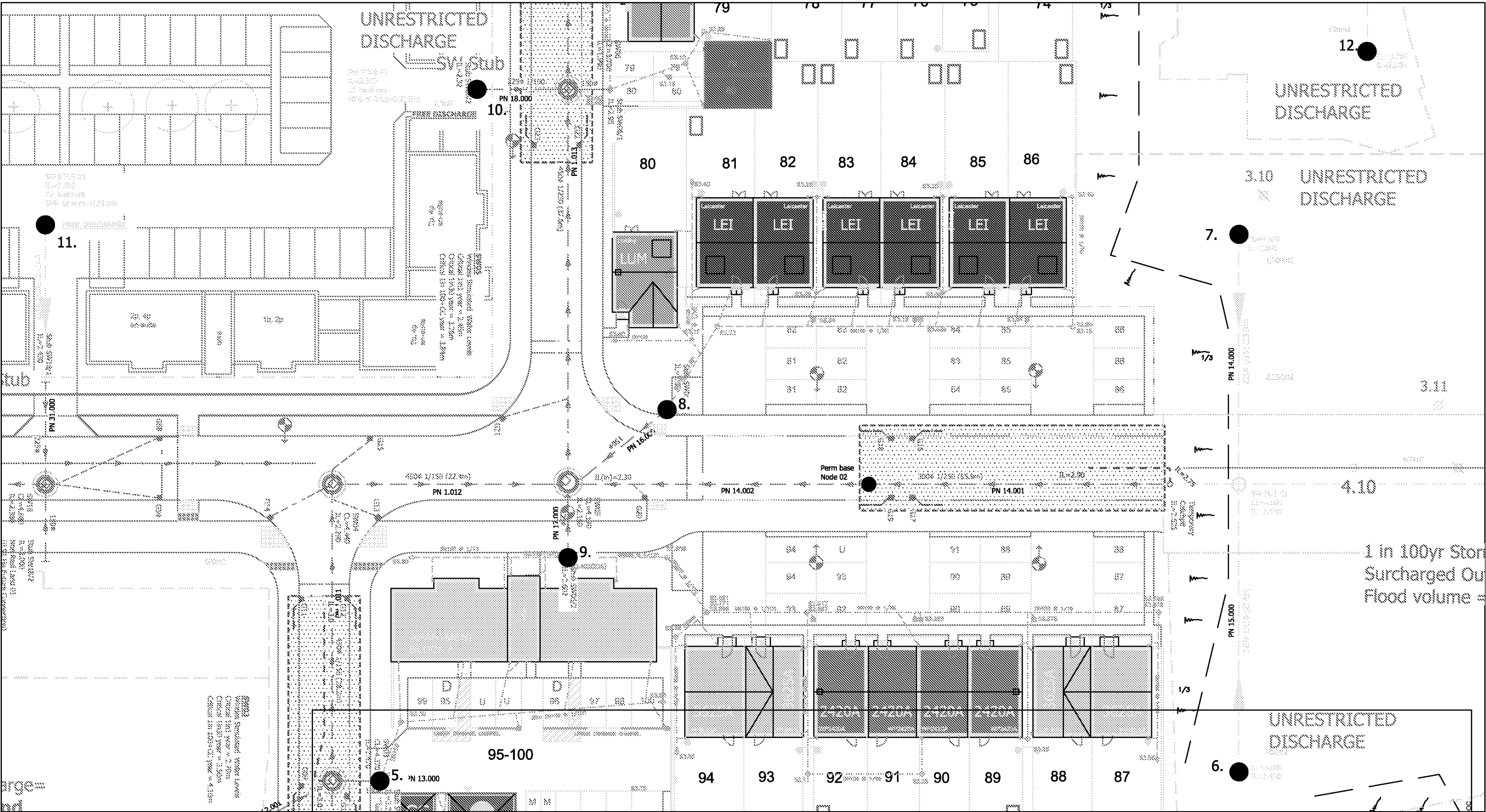
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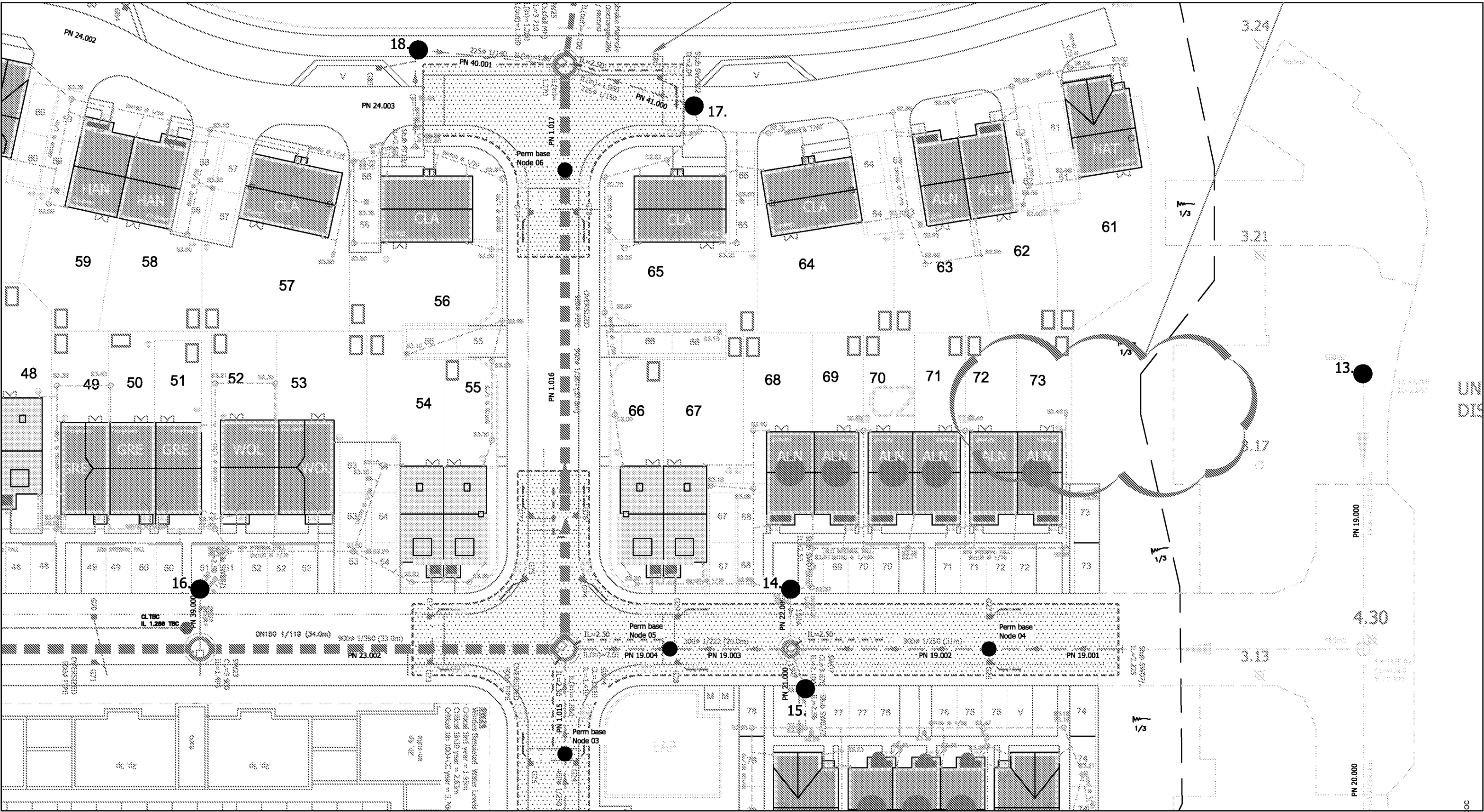
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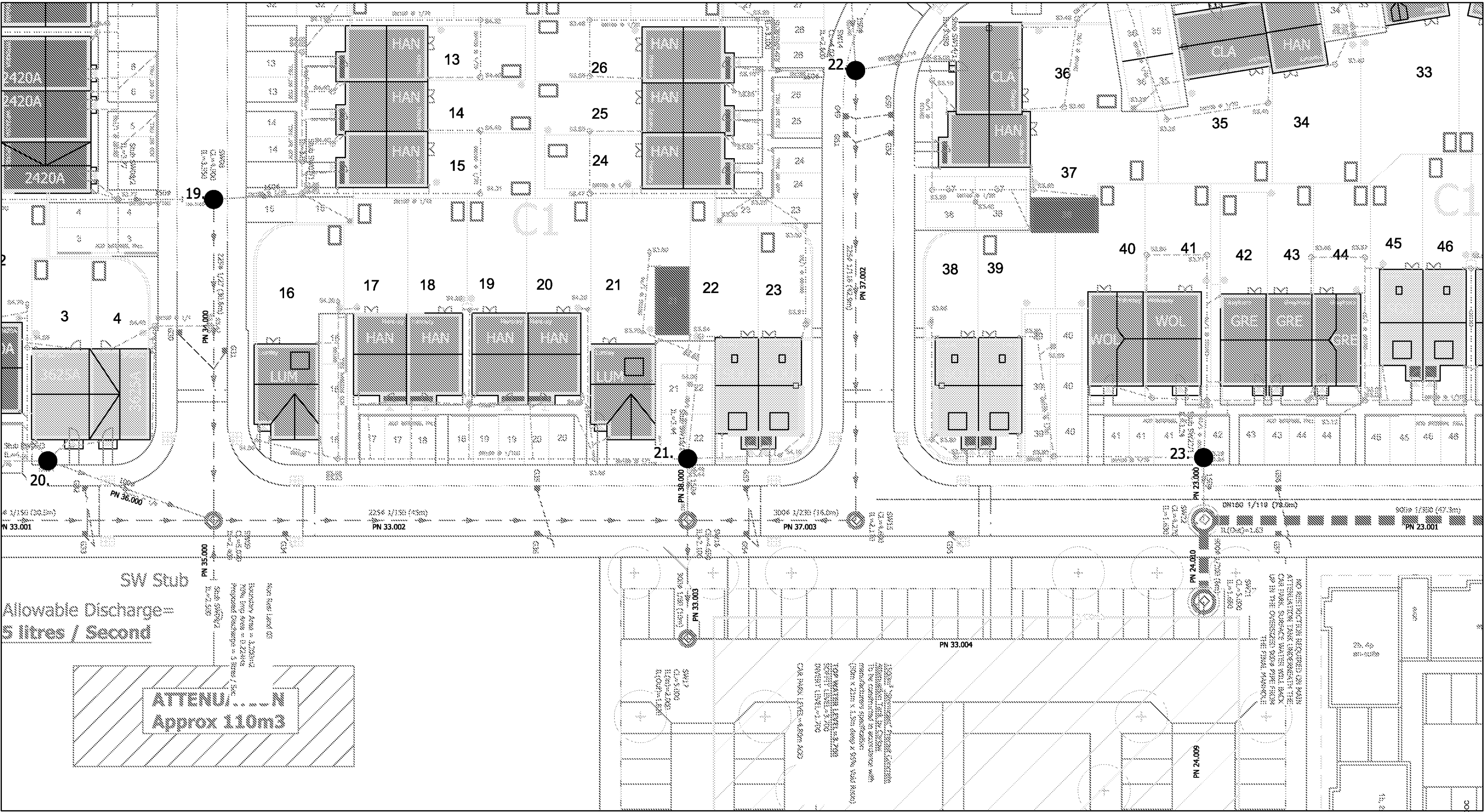
2420A

2420A

2420A







APPENDIX L: List of Drawings in West of Wetlands Catchment

HAMPTON PARK, TODDINGTON LANE, LITTLEHAMPTON

West of Wetlands Area – List of Drawings

Phase 1

Civils Drawings– Glanville Consulting Engineers

(Parcel A1 - Planning reference LU/347/14/RES)

- CV8150558/100 RevC2 – Engineering Layout (1 of 3)
- CV8150558/101 RevC3 – Engineering Layout (2 of 3)
- CV8150558/102 RevC2 – Engineering Layout (1 of 3)
- CV8150558/103 RevC2 – Drainage Layout (1 of 3)
- CV8150558/104 RevC2 – Drainage Layout (2 of 3)
- CV8150558/105 RevC2 – Drainage Layout (3 of 3)
- CV8150558/112 RevC1 – Drainage Construction Details (1 of 2)
- CV8150558/113 RevC1 – Drainage Construction Details (2 of 2)

Civils & Drainage Drawings– Mayer Brown Ltd

(Internal Distribution Road – IDR)

- A/PHLITTLE.2/IDR-111 Rev C1 – S38 Highway Works Construction Treatment Drawing
- A/PHLITTLE.2/IDR-112 Rev C1 – S38 Highway Works Drainage and Ducting Drawing

Civils & Drainage Drawings– Mayer Brown Ltd

(Toddington Lane S278 works)

- A/PHLITTLE.2/112 Rev U – S278 Highway Works Drainage and Ducting Drawing

Planning reference LU/79/16/DOC & LU/96/16/DOC (Bovis Site)

(Parcels B3 & B5)

Civils & Drainage Drawings– Bovis Homes Ltd

- LITL-502/1 RevD – Engineering Layout, Sheet 1
- LITL-502/2 RevD – Engineering Layout, Sheet 2
- LITL-502/3 RevH – Engineering Layout, Sheet 3
- LITL-503/1 RevC – Road & Sewer Sections, Sheet 1
- LITL-503/2 RevC – Road & Sewer Sections, Sheet 2
- LITL-503/3 RevC – Road & Sewer Sections, Sheet 3
- LITL-504 – Typical Road Details
- LITL-505 – Typical Sewer Details
- LITL-506 – Private Drive Details, plots 6 to 117

Civils Drawings– Glanville Consulting Engineers

- CV8140927/611 RevP2 – B3/B5 Access Road Construction Plan
- CV8140927/612 RevP2 – B3/B5 Access Road Drainage Plan

- CV8140927/613 – B3/B5 Access Road Highway Construction Details

Phase 2 Application: Planning reference LU/121/17/RES

(Parcel C1, Partial C2, Partial B2 & Partial B4)

Estate Road & Infrastructure – Mayer Brown Ltd

- A/PHLITTLE-INT.1/110-1 RevC2 – General arrangement Drawings (1 of 2)
- A/PHLITTLE-INT.1/110-2 RevC2 – General arrangement Drawings (2 of 2)
- A/PHLITTLE-INT.1/111-1 RevC2 – Construction Treatments Drawings (1 of 2)
- A/PHLITTLE-INT.1/111-2 RevC2 – Construction Treatments Drawings (2 of 2)
- A/PHLITTLE-INT.1/112-1 RevC3 – Drainage General Arrangement (1 of 2)
- A/PHLITTLE-INT.1/112-2 RevC3 – Drainage General Arrangement (2 of 2)
- A/PHLITTLE-INT.2/MB/C/01 RevC3 – Adopted & Non Adopted Roads Construction Details
- A/PHLITTLE-INT.2/MB/F/02 RevC2 – Permeable Sub-Base Road Construction Details
- A/PHLITTLE-INT.2/MB/F/03 RevC1 – Filter Trench Construction Detail

Plot Area Civil Design – MJA Consulting Engineers

- 5691:01 Rev B – Drainage Layout (Sheet 1)
- 5691:02 Rev B – Drainage Layout (Sheet 2)
- 5691:03 Rev E – Levels Plan (Sheet 1)
- 5691:04 Rev C – Levels Plan (Sheet 2)
- 5691:05 Rev A – Drainage, Area in Abeyance
- 5691:06 Rev A – Levels, Area in Abeyance
- 5691:20 Rev A – Construction Details (Sheet 1) – Hard Standing Areas
- 5691:21 1st Issue – Construction Details (Sheet 2), Private Drainage 1
- 5691:22 1st Issue – Construction Details (Sheet 3), Private Drainage 2
- 5691:40 1st Issue – External Works (Sheet 1)
- 5691:41 1st Issue – External Works (Sheet 2)

Lyminster By Pass, Planning reference LU/278/17/RES

(Northern Roundabout)

Civils & Drainage Drawing – Mayer Brown Ltd

- PHLI-MB-S278-GF-DR-D-312 RevP8 – Proposed S38/S278 Highway Works Southern Bypass Roundabout, Drainage and Ducting Drawing

