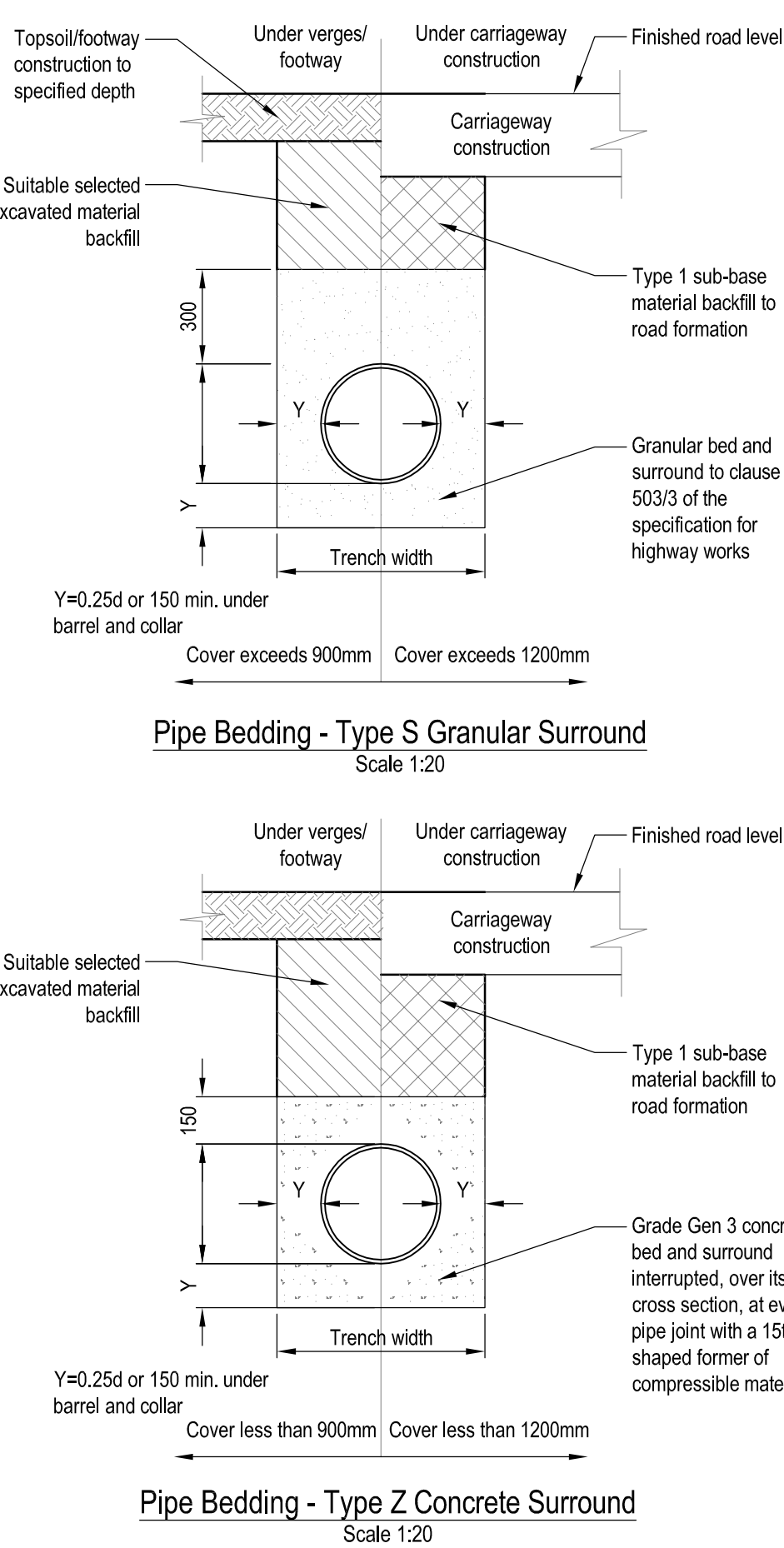
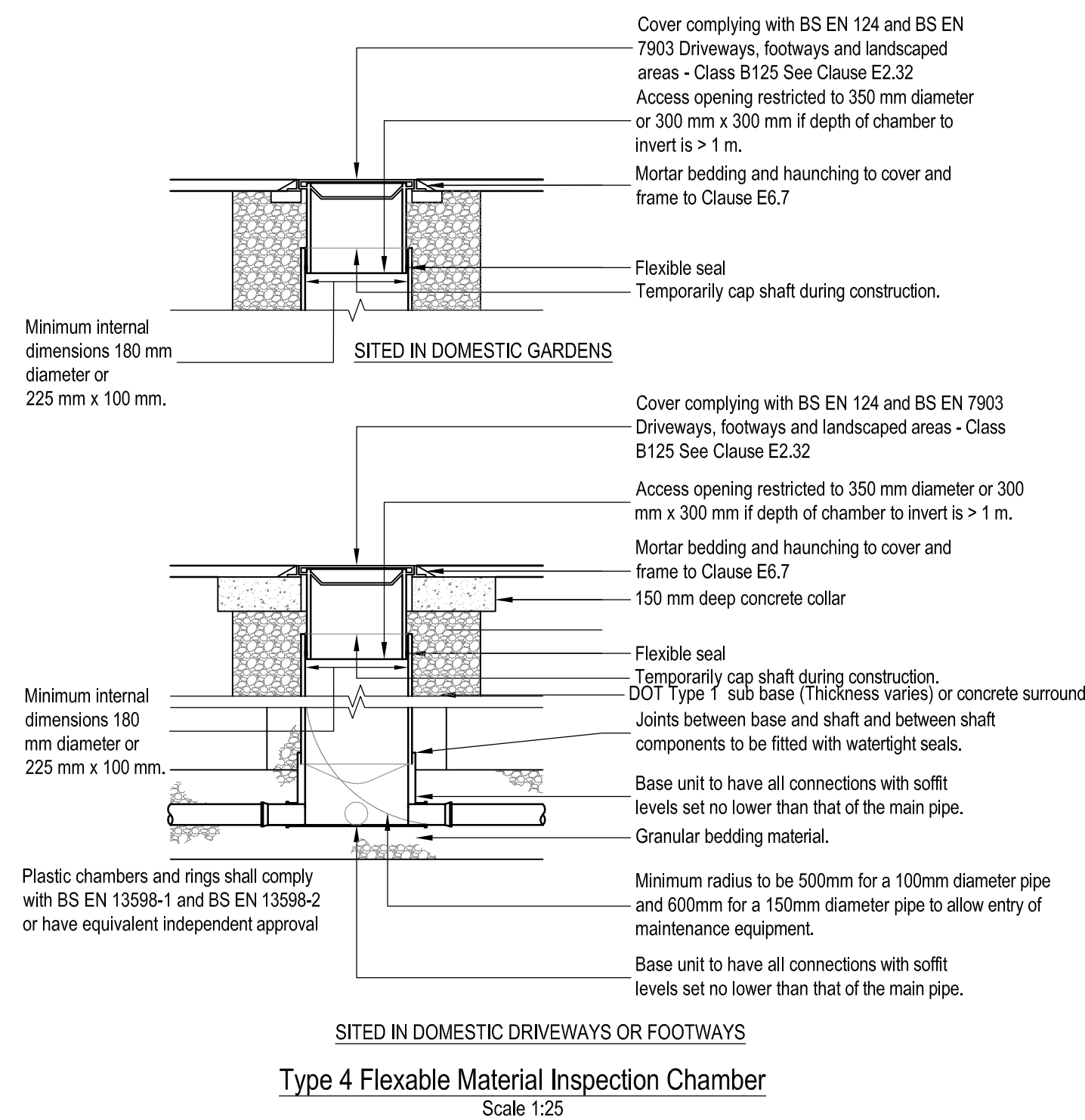
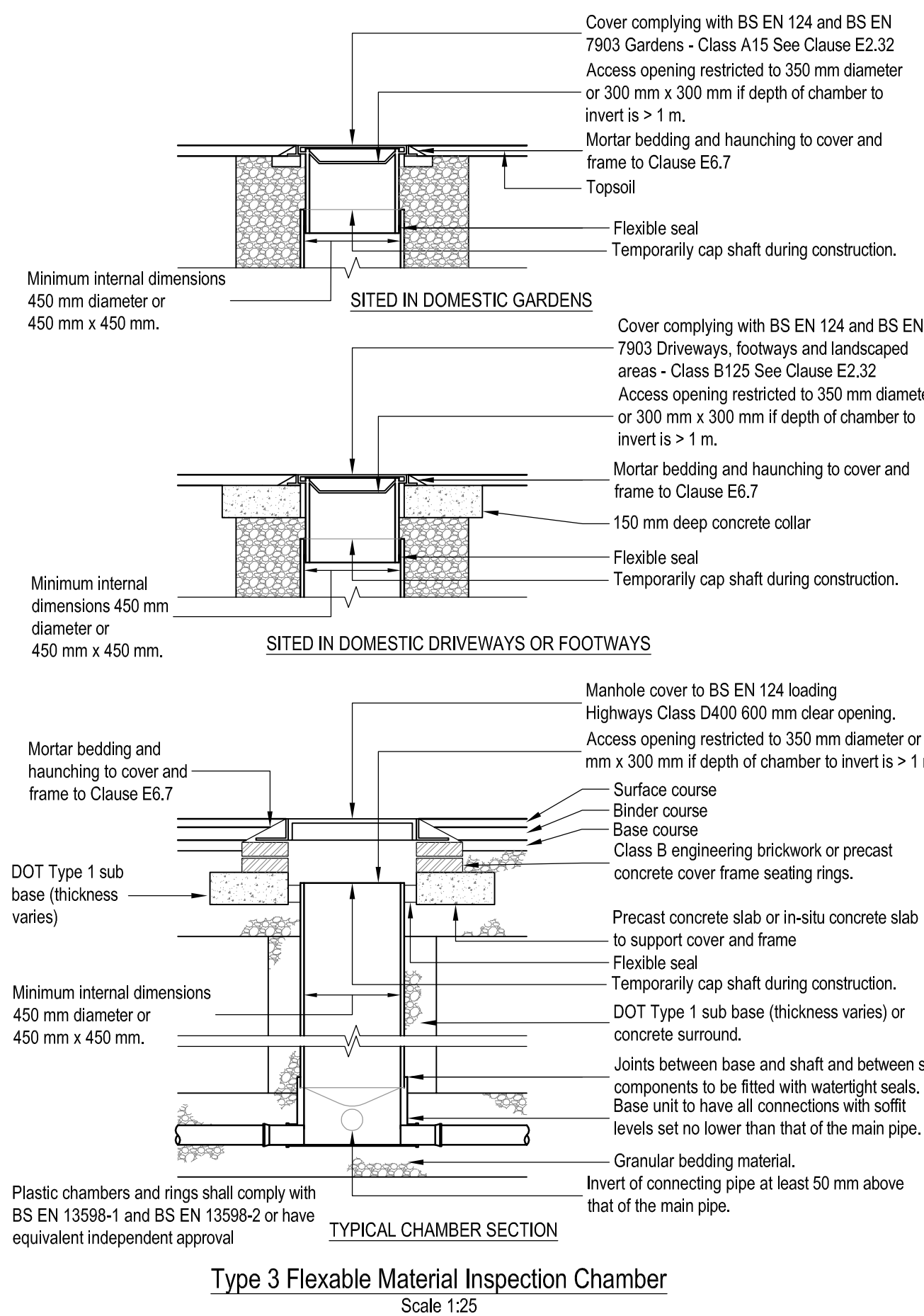
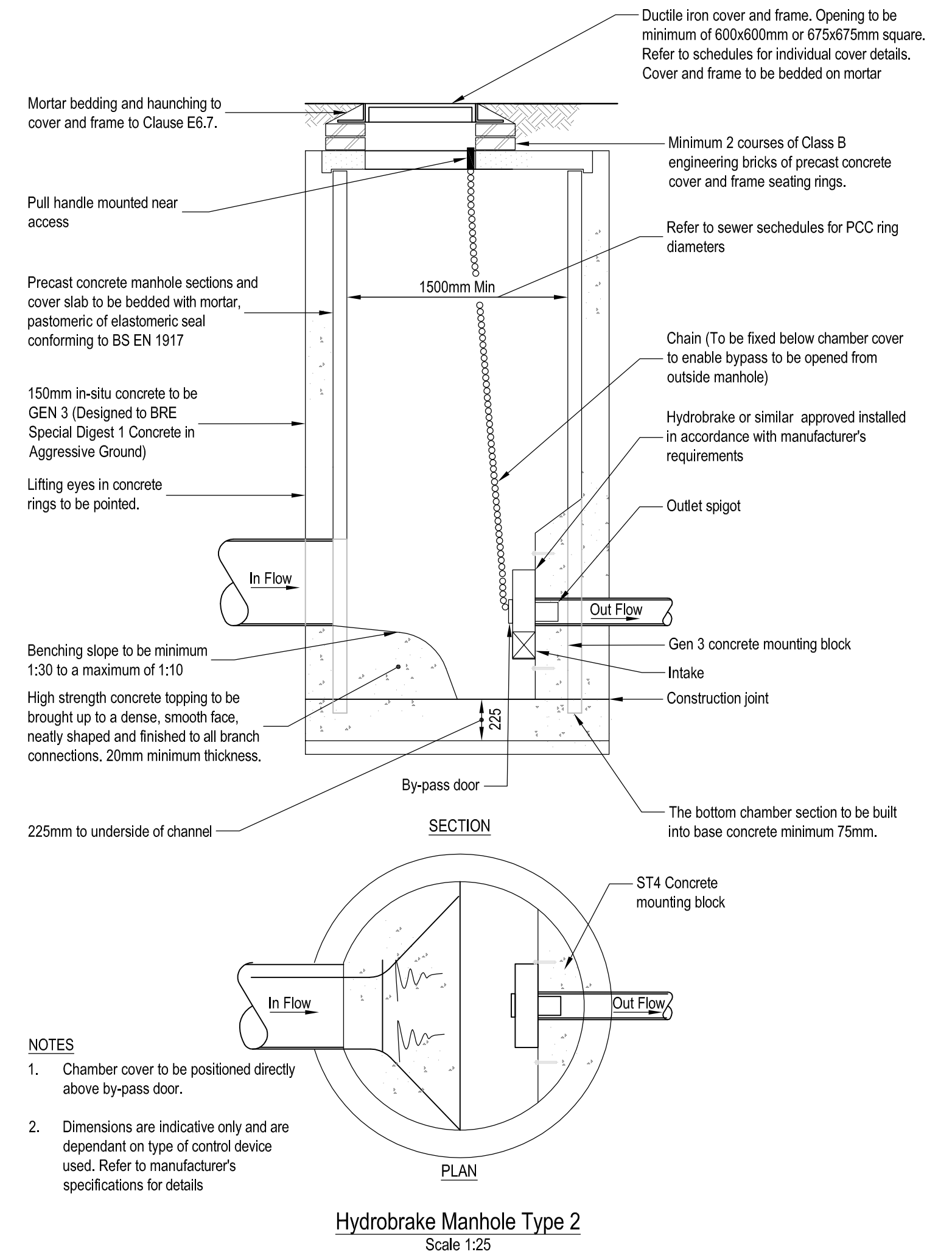
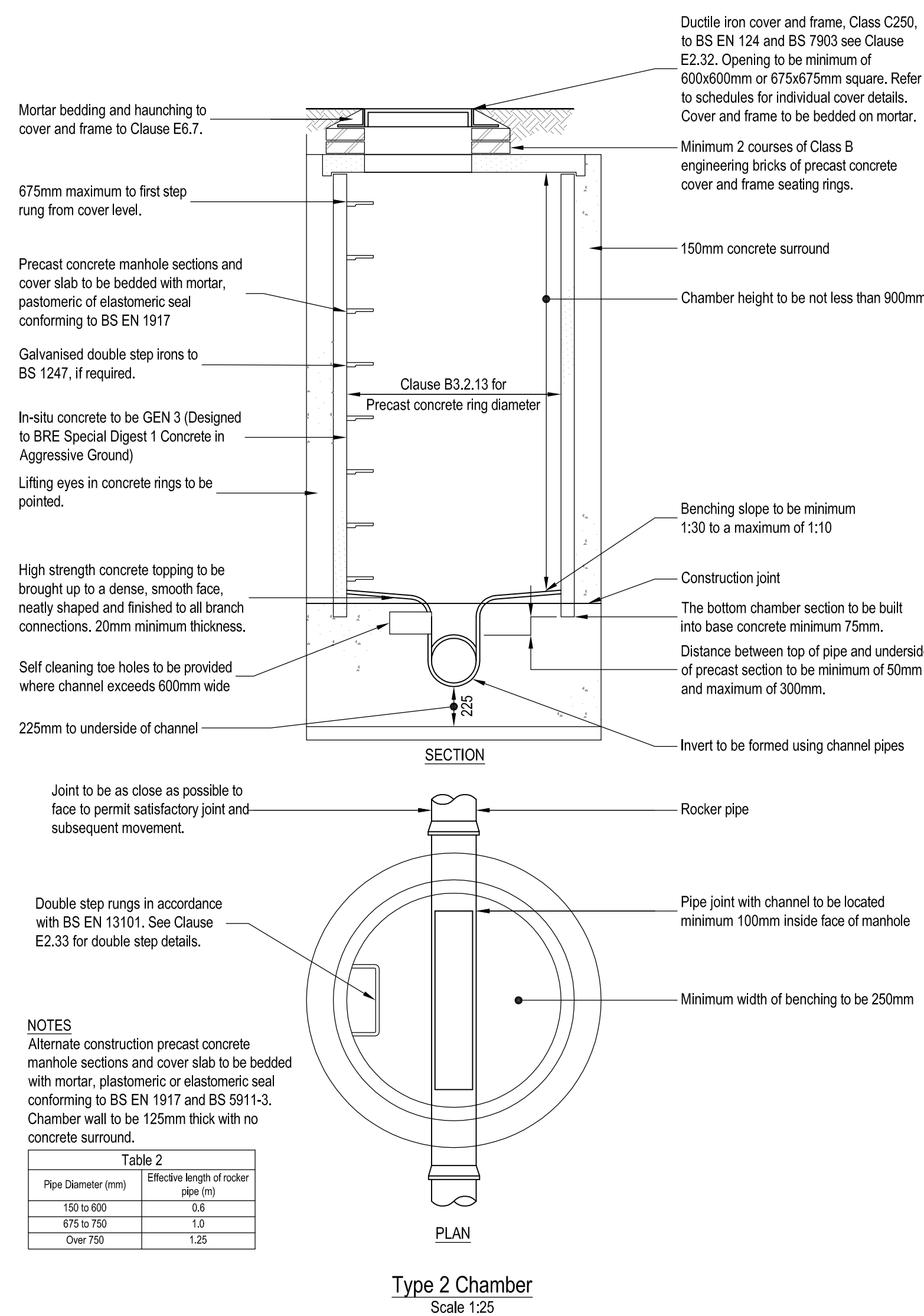
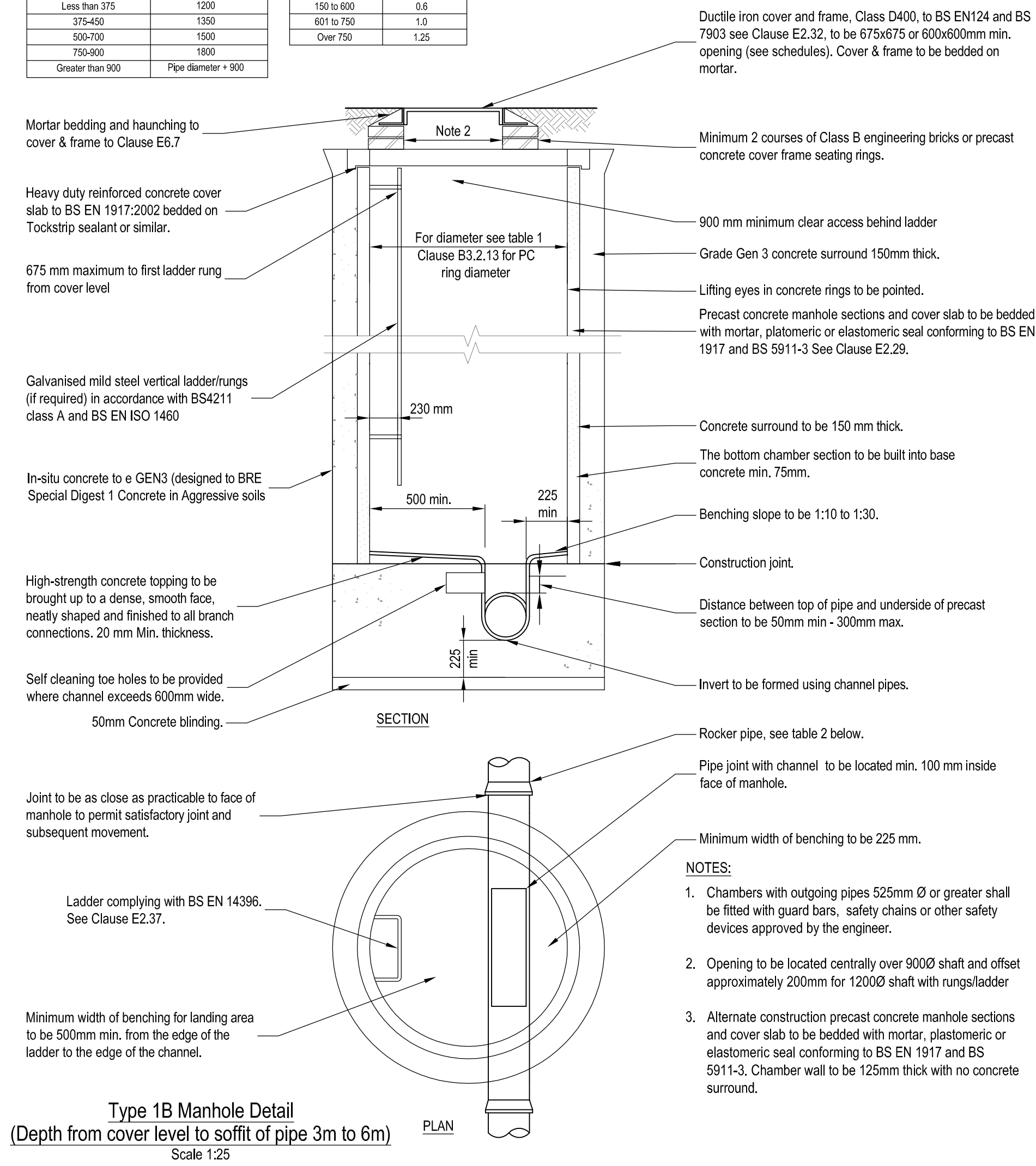


Nominal internal diameter of largest pipe in manhole (mm)	Minimum nominal internal dimension of manhole (mm)
Less than 375	1200
375-450	1350
500-700	1500
750-900	1800
Greater than 900	Pipe diameter + 900

Pipe Dia. (mm)	Effective Length of rocker pipe (m)
150 to 600	0.6
601 to 750	1.0
Over 750	1.25



C1	Construction Issue	03/11/2015 MP	SH
Rev.	Description	Date	Chkd

NOTES

1. This drawing is to be read in conjunction with all other relevant documents and specifications.
2. Do not scale from this drawing.
3. All adoptable drainage works to be in accordance with Sewers for Adoption 7th Edition

Client :	
----------	--



Project :

TODDINGTON LANE
NORTH LITTLEHAMPTON

Title :	
---------	--

Parcel A1 Drainage Construction Details

Project Engineer : S Hudson

Scale : 1:200 @ A1

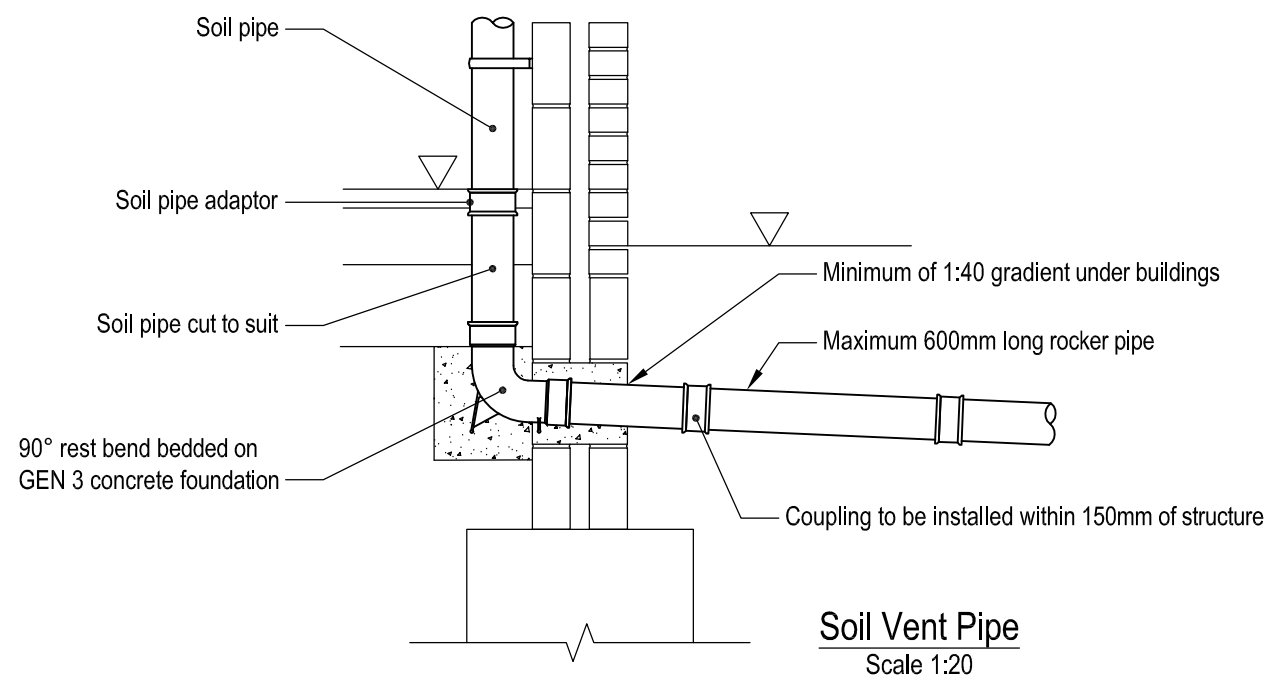
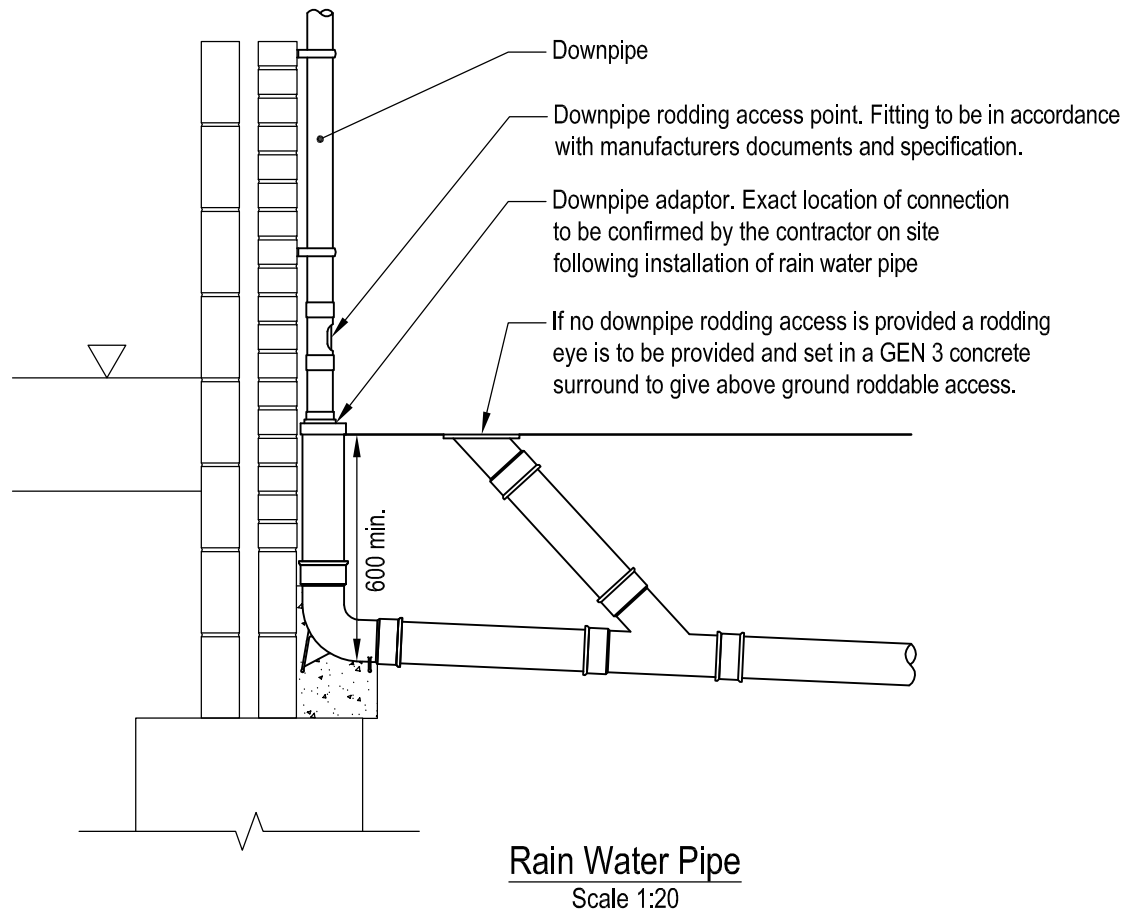
Project Director : K. Rayner

Date : June 2015

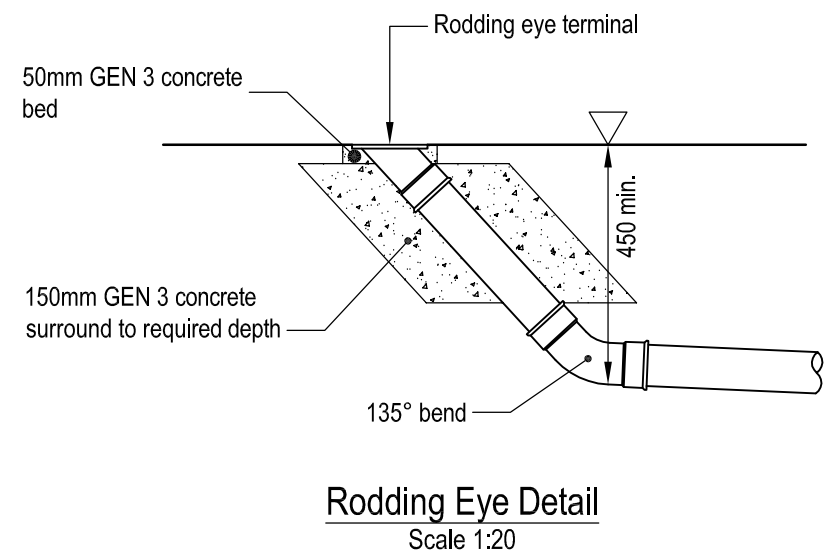
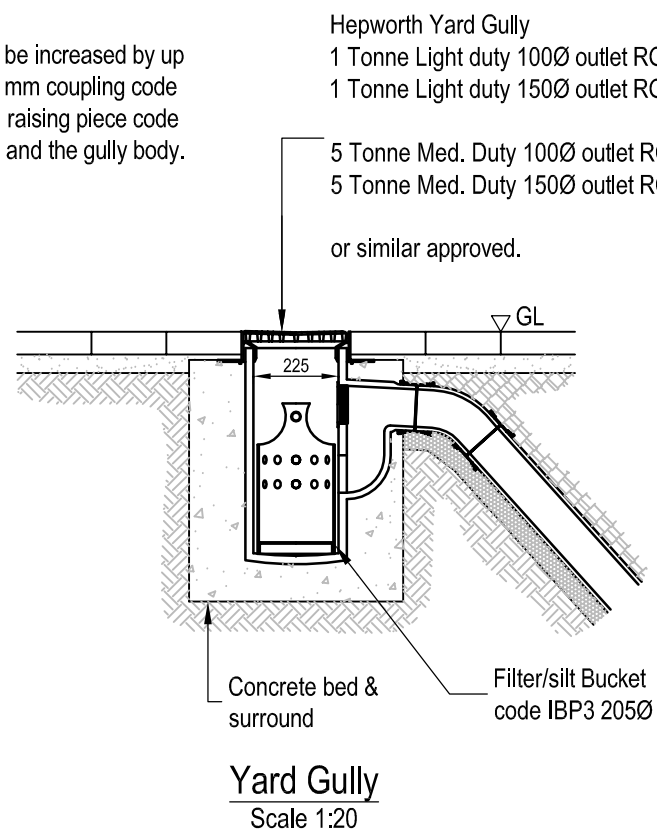
Status :	CONSTRUCTION
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Drawing No. CV8150558/112

C1

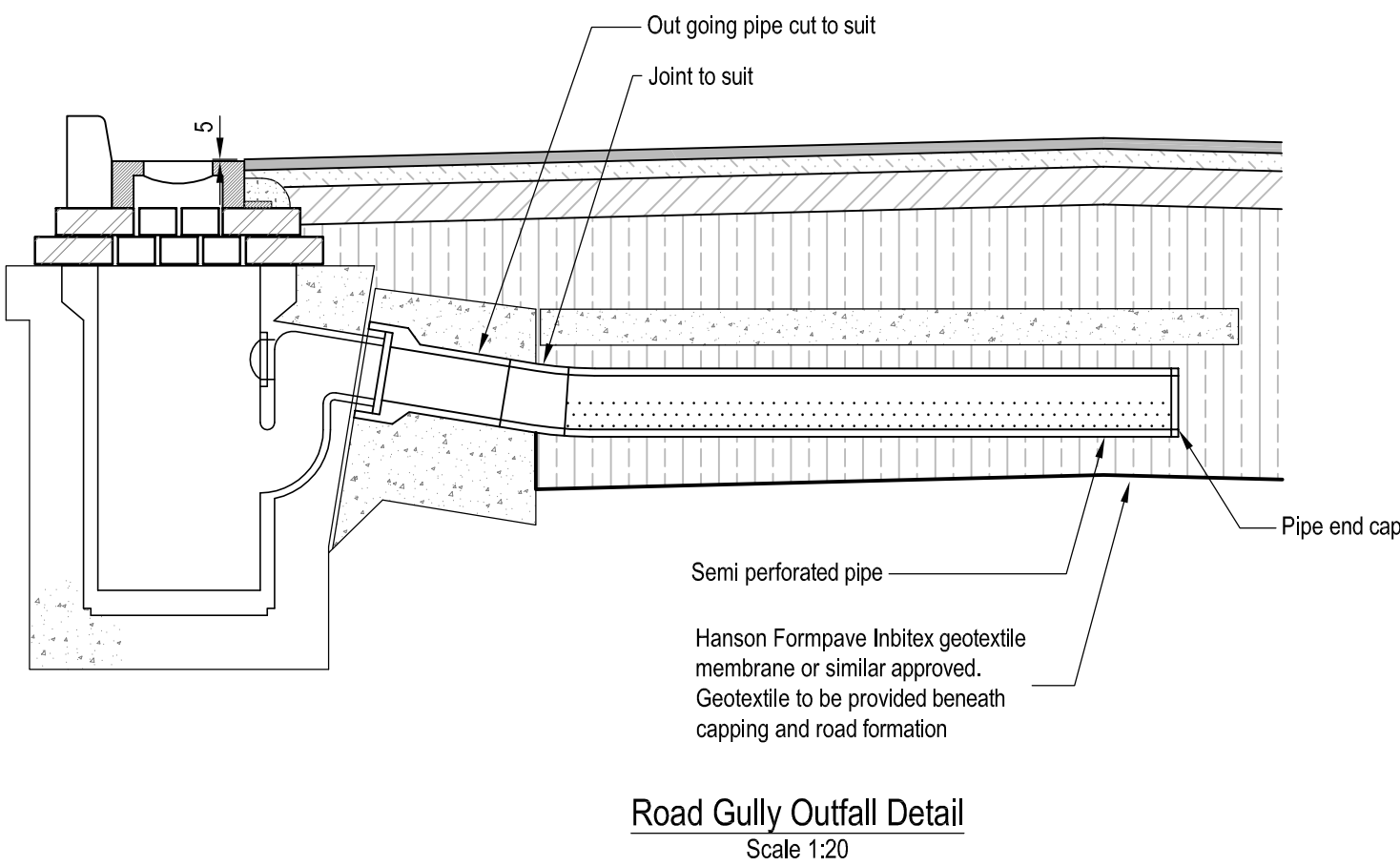
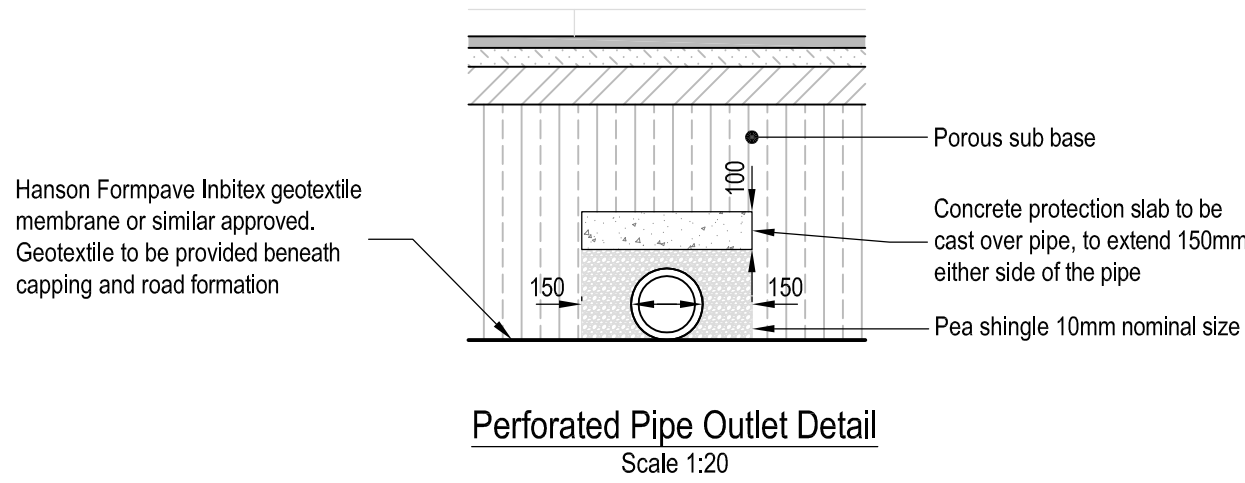
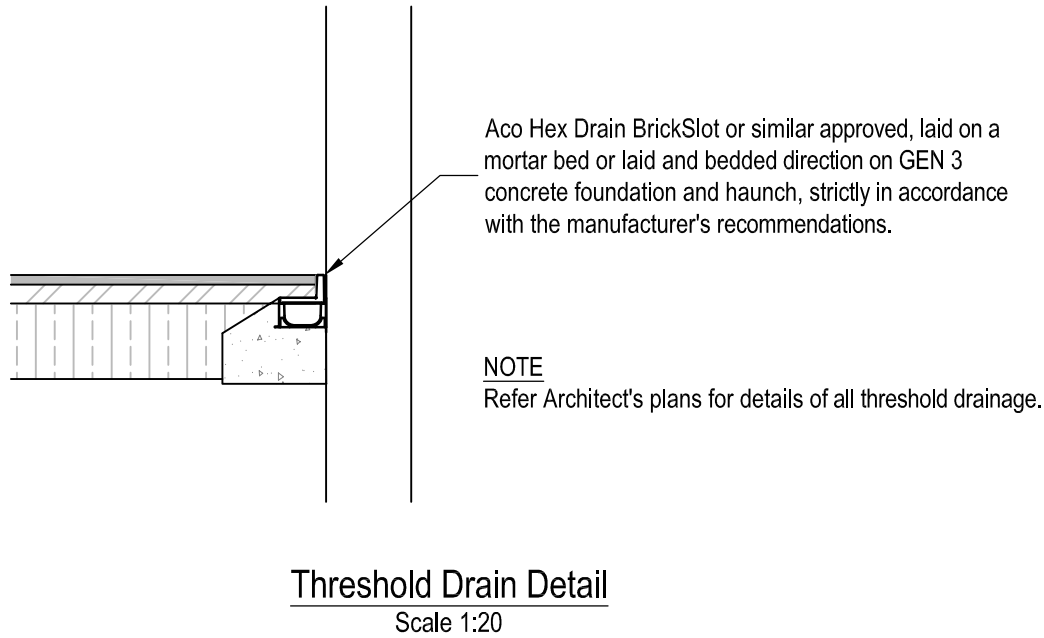
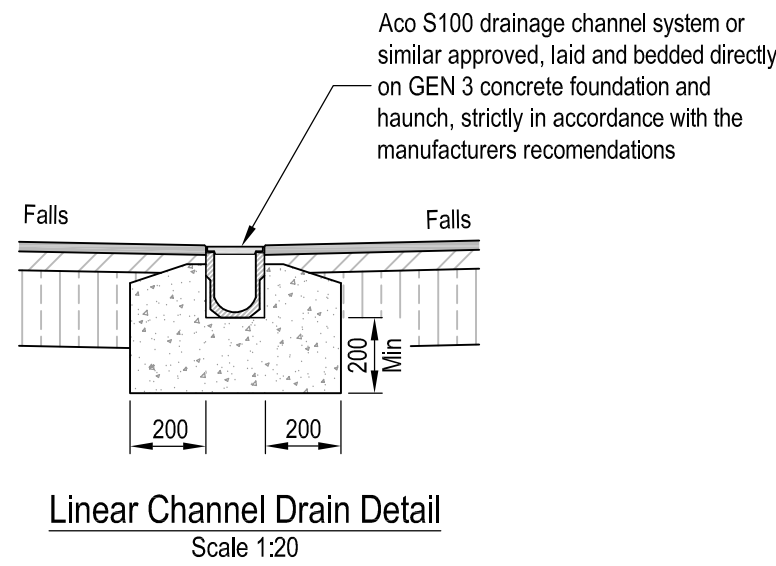
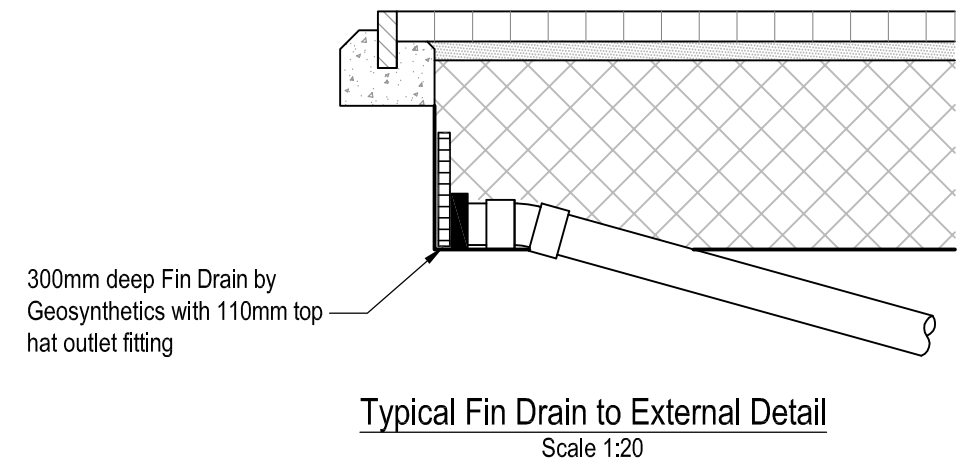
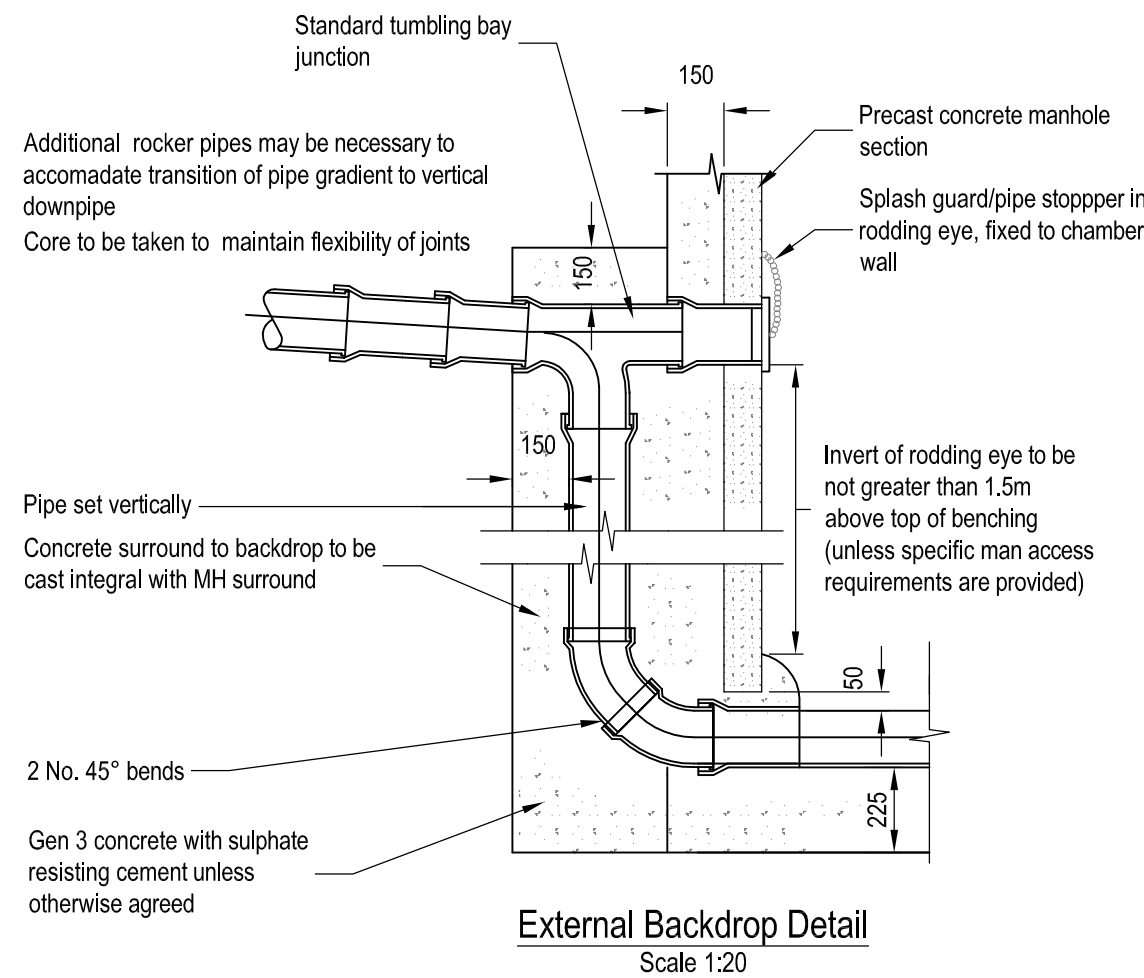


NOTE
The depth of the gully can be increased by up to 300 mm by fitting a 225 mm coupling code VC1/3 and a 300 mm high raising piece code SIC3/1 between the frame and the gully body.



NOTES

1. This drawing is to be read in conjunction with all other relevant documents and specifications.
2. Do not scale from this drawing.
3. All adoptable drainage works to be in accordance with Sewers for Adoption 7th Edition



C1	Construction Issue	03/11/2015 MP	SH
Rev.	Description	Date	Chkd



Glanville
Cornerstone House
62 Foxhall Road, Didcot
Oxon, OX11 7AD
Tel: (01235) 515550 Fax: (01235) 817799
postbox@glanvillegroup.com www.glanvillegroup.com

Client :  **PERSIMMON**

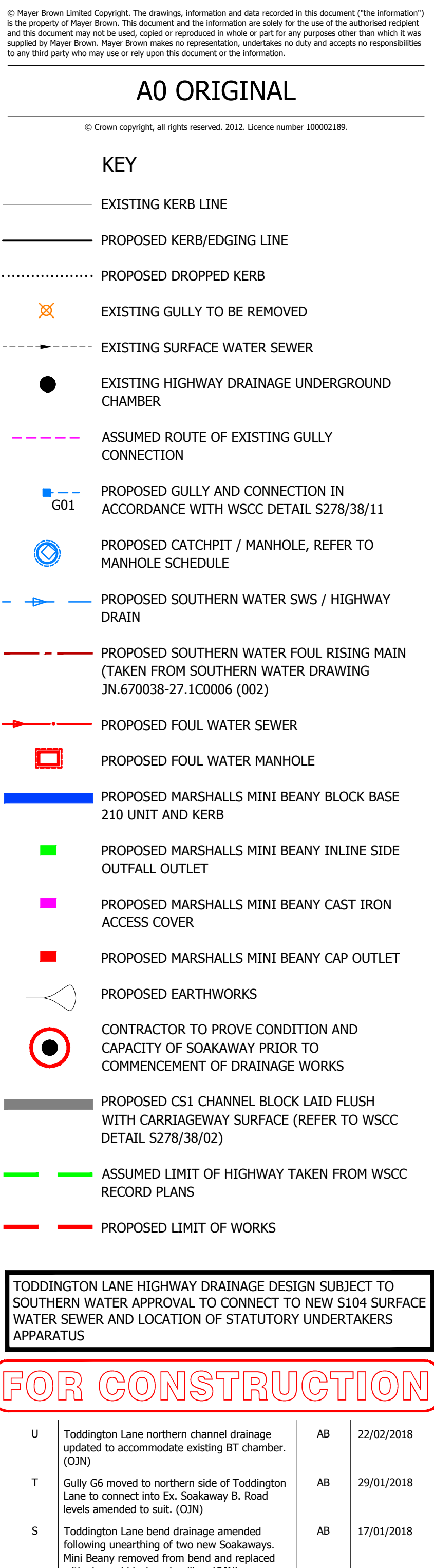
Project : **TODDINGTON LANE
NORTH LITTLEHAMPTON**

Title : **Parcel A1
Drainage Construction
Details**

Project Engineer : S Hudson Scale : 1:200 @ A1
Project Director : K. Rayner Date : June 2015
Status : **CONSTRUCTION**

Drawing No.	CV8150558/113	Rev	C1
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APPENDIX R: Drawings, Toddington Lane & IDR Road & B3B5 Road

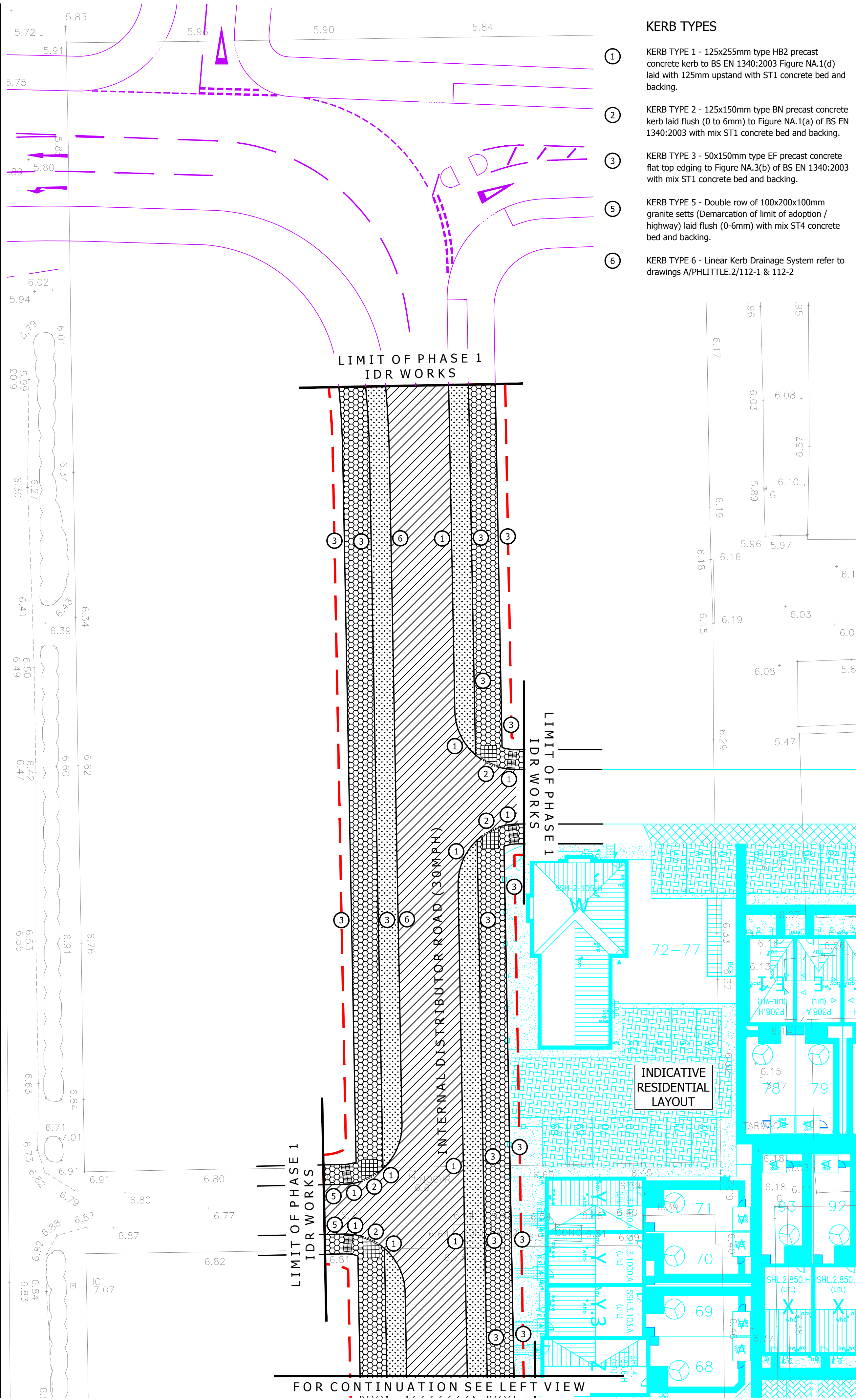
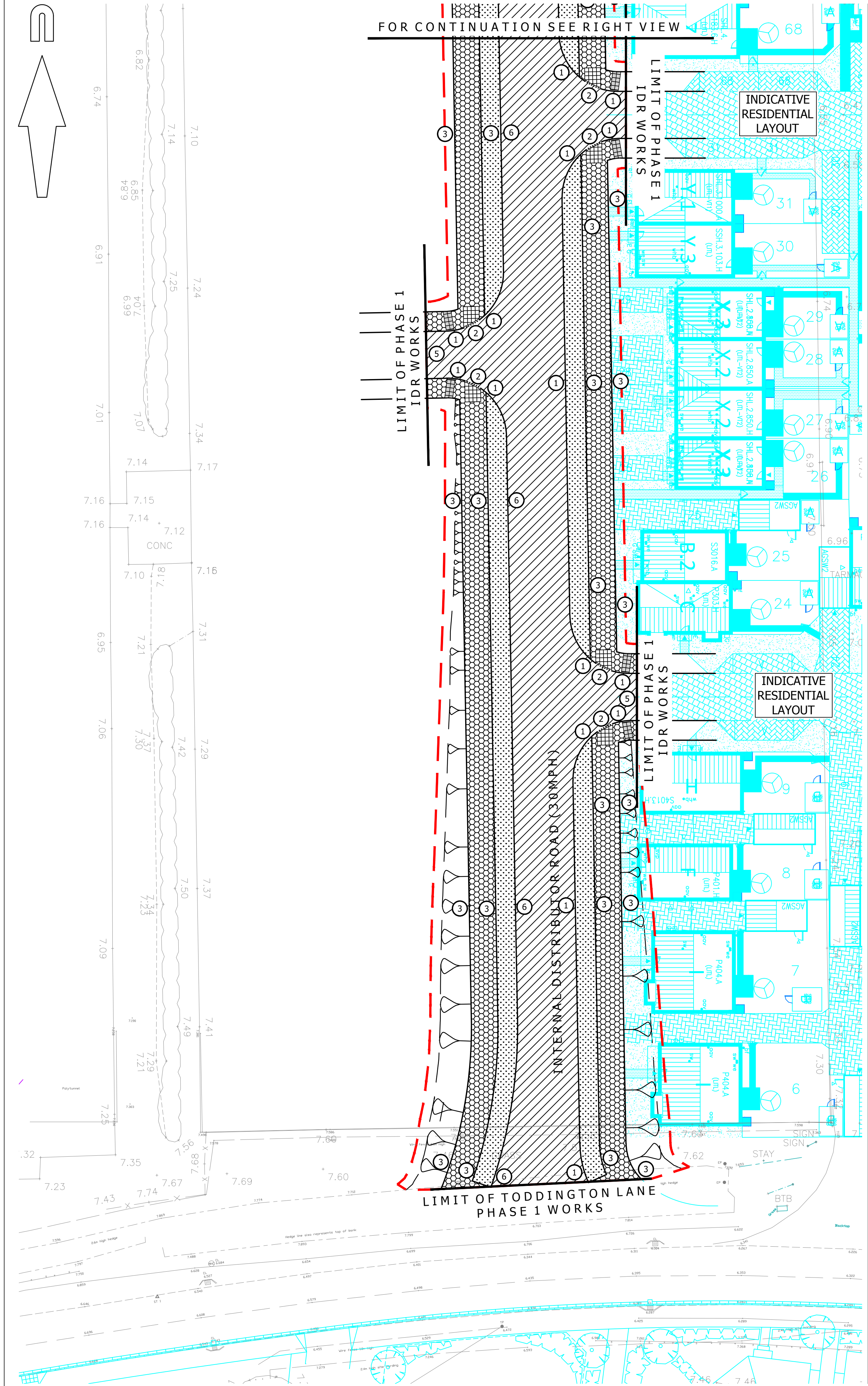


U	Toddington Lane northern channel drain amended to accommodate existing BT chamber. (0.0%)	AB	22/02/2018
T	Gully G56 moved to northern side of Toddington Lane to connect into E. Roadway B. Road levels amended to suit. (0.0%)	AB	29/01/2018
S	Toddington Lane bend drainage amended to improve understanding of flood risk to the Mill. Main Bearly removed from bend and replaced with channel block and gullies. (0.0%)	AB	17/01/2018
R	Four Water Sewer and four surface water sewers updated following comments from PHVT dated 08/09/2015. (0.0%)	SF	06/10/2017
Q	Gully G17 connected to S811 following comments from WSSC dated 01/08/2017. (0.0%)	AB	01/08/2017
P	Drainage at IDR junction updated following comments from WSSC dated 31/07/2017. (0.0%)	AB	01/08/2017
O	Drainage at IDR junction updated following comments from PHVT and WSSC dated 21/07/2017. (0.0%)	AB	24/07/2017
N	Earthworks updated and foul rising main added following comments from WSSC dated 21/07/2017. (0.0%)	AB	21/07/2017
M	Drainage layout updated, South Water foul rising main and Bearly outlets B.3 added following comments from WSSC dated 02/06/2017. (0.0%)	AB	11/07/2017
L	Surface water sewer and highway drain updated, four water sewer added. (0.0%)	AB	19/05/2017
K	'Hit and Miss' edging added to limit of adoption following WSSC comments dated 19/01/2017. (0.0%)	AB	23/01/2017
J	Margin between Footways/Cycleway and Carriageway removed and concrete paving amended following WSSC comments dated 09/01/2017. (0.0%)	AB	16/01/2017
I	Unauthorised dropped crossing point added to the east side of the A1 site access following Stage 2 Road Safety Audit. Addendum Report received 11/11/2016, highway rank removed and Highway Drain connected to S106 Surface Water Sewer. (0.0%)	AB	28/11/2016
H	Drawing updated to accommodate revised scheme. (0.0%)	AB	04/11/2016
G	Drainage changes changed, drawing updated to include works up to the IDR and gully G15 connected to Ex Sockaway 2. (0.0%)	AB	27/05/2016
F	Drawing updated following WSSC comments dated 08/09/2015. (0.0%)	PSD	28/08/2015
E	Drawing updated following WSSC comments dated 08/09/2015. (0.0%)	PSD	25/08/2015
D	Drawing updated following WSSC comments dated 29/06/2015. (0.0%)	PSD	16/07/2015
C	Drawing amended following WSSC comments dated 11/01/15 and planning submission. (0.0%)	PSD	01/06/2015
B	Contours updated and low retaining feature added. (0.0%)	PSD	10/03/2015
A	Drawing updated following scheme progression. (0.0%)	AB	30/10/2014
rev.	amendment	checked	date



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client	PERSIMMON HOMES		
project	NORTH LITTLEHAMPTON PHASE 1 TODDINGTON LANE S278 WORKS		
scale	1:250	drawn by	OUN
date	AUGUST 2014	cad file	MASTER PHASE 1.DWG
title	PROPOSED S278 HIGHWAY WORKS DRAINAGE AND DUCTING DRAWING		
drawing number	A/PH/LITTLE.2/112		rev.



KERB TYPES

- 1 KERB TYPE 1 - 125x255mm type HB2 precast concrete kerb to BS EN 1340:2003 Figure NA.1(d) laid with 125mm upstand with ST1 concrete bed and backing.
- 2 KERB TYPE 2 - 125x150mm type BN precast concrete kerb laid flush (0 to 6mm) to Figure NA.1(a) of BS EN 1340:2003 with mix ST1 concrete bed and backing.
- 3 KERB TYPE 3 - 50x150mm type EF precast concrete flat top edging to Figure NA.3(b) of BS EN 1340:2003 with mix ST1 concrete bed and backing.
- 5 KERB TYPE 5 - Double row of 100x200x100mm granite setts (Demarcation of limit of adoption / highway) laid flush (0-6mm) with mix ST4 concrete bed and backing.
- 6 KERB TYPE 6 - Linear Kerb Drainage System refer to drawings A/PHLITTLE.2/112-1 & 112-2

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A1 ORIGINAL

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KEY

- EXISTING KERB LINE
- PROPOSED KERB/EDGING LINE
- PROPOSED DROPPED KERB
- PROPOSED BUFF COLOURED TACTILE PAVING IN ACCORDANCE WITH WSCC DETAIL S278/38/18
- PROPOSED CORDUROY HAZARD WARNING PAVING IN ACCORDANCE APPENDIX 11/1
- PROPOSED FULL DEPTH LOCAL DISTRIBUTOR CARRIAGEWAY CONSTRUCTION IN ACCORDANCE WITH APPENDIX 7/1 AND WSCC DETAIL S278/38/21
- PROPOSED FULL DEPTH FOOTWAY CONSTRUCTION TYPE 1 IN ACCORDANCE WITH APPENDIX 11/1 AND WSCC DETAIL S278/38/04
- PROPOSED VERGE TO BE TOP SOILED AND SEEDED WITH HARD WEARING AMENITY GRASS "WEAR AND TEAR (A24) BY GERMINAL SEEDS OR SIMILAR APPROVED"
- PROPOSED LIMIT OF WORKS

NOTES

- 1. RGP Layout taken from RGP drawing 2014/1994/180.
- 2. B3/B5 site layout taken from Bovis drawing LITL-04 received 27/04/2016

FOR CONSTRUCTION

C1	Revision changed to construction issue. (PB)	AB	01/09/2016
P2	Drawing title & section lines updated following comments received from WSCC dated 09/08/2016. (OJN)	AB	09/08/2016

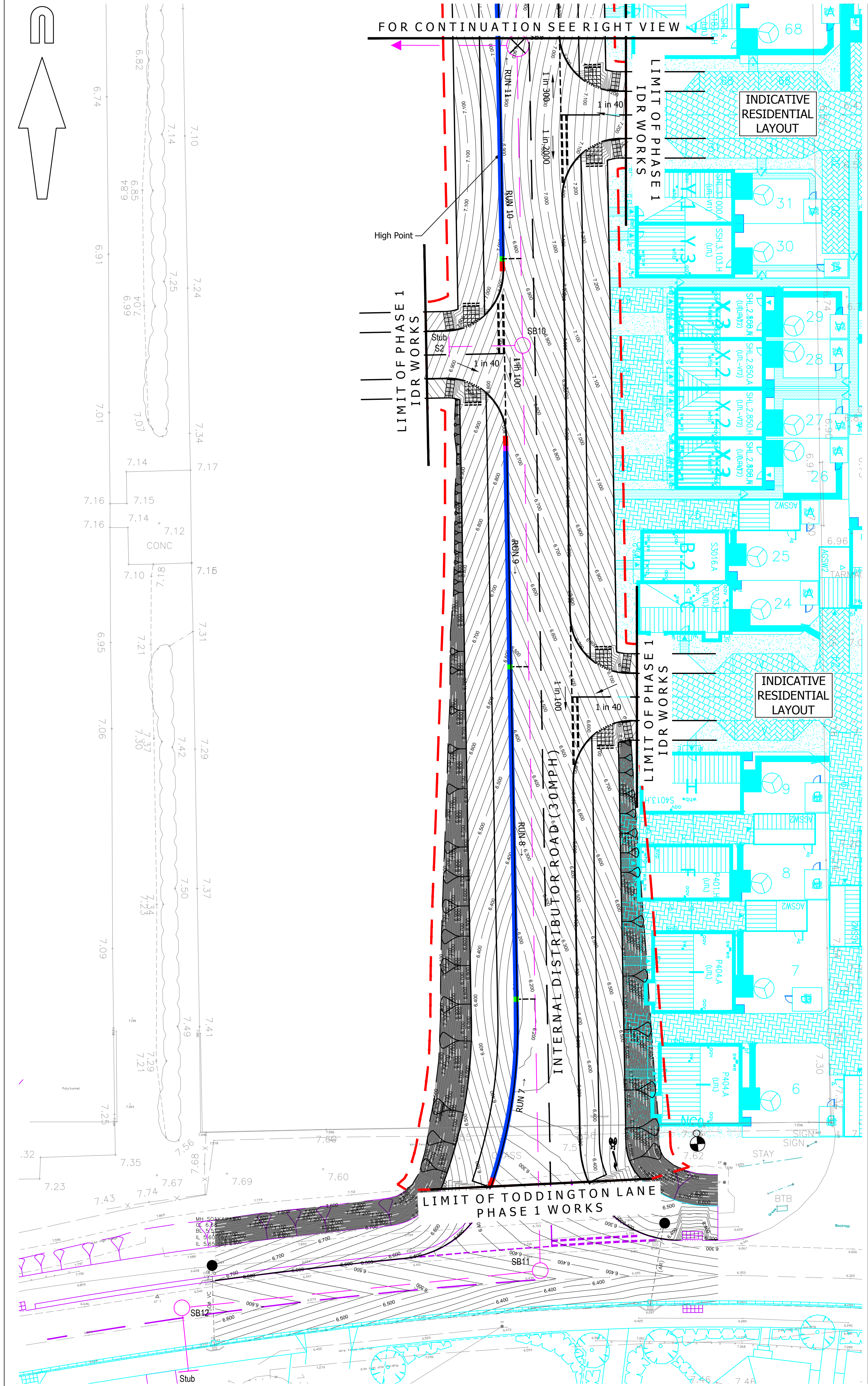
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MB
mayer brown

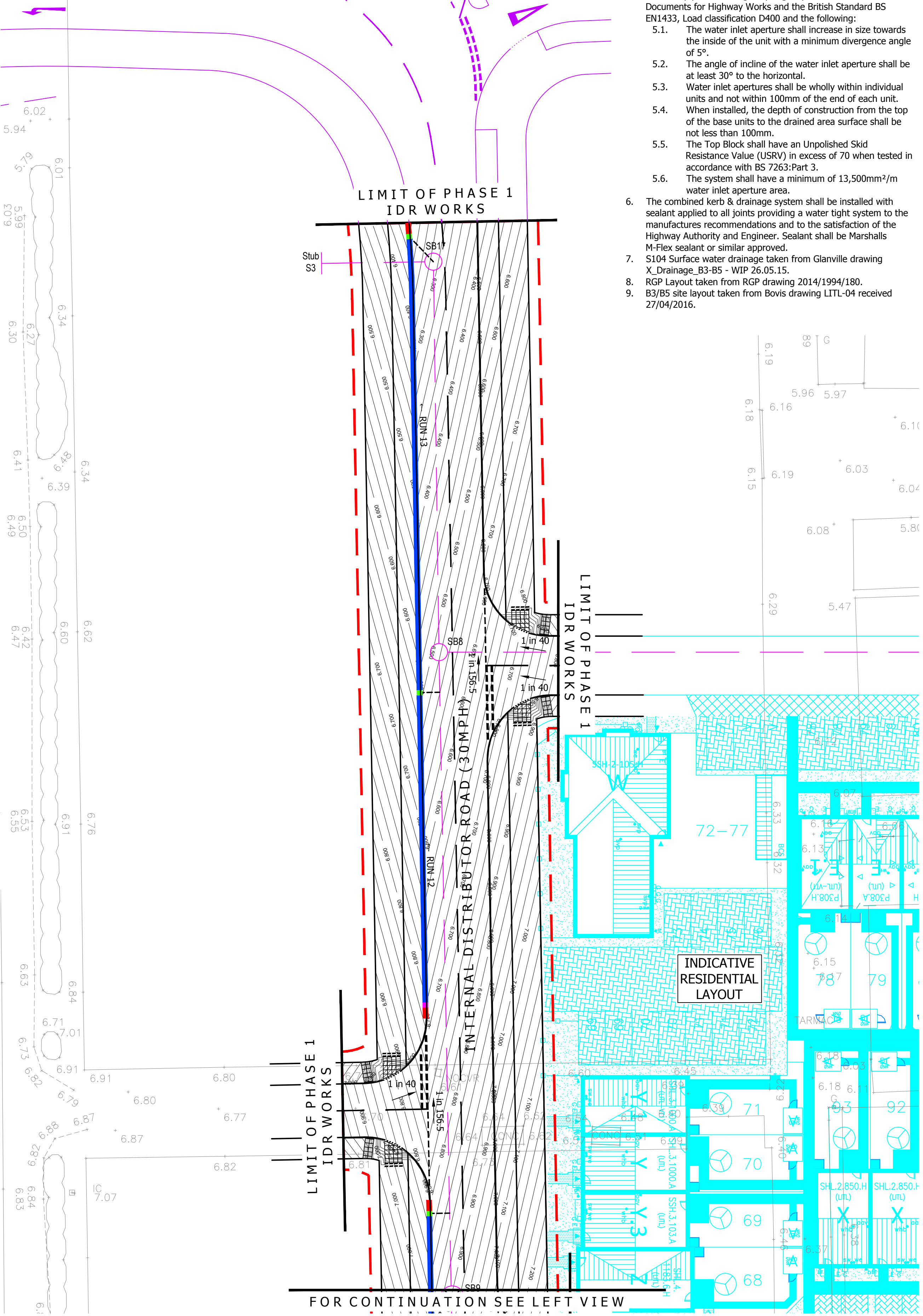
Mayer Brown Limited
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wokingoffice@mayerbrown.co.uk www.mayerbrown.co.uk

client

PERSIMMON HOMES					
project					
NORTH LITTLEHAMPTON PHASE 1 - IDR WORKS OFF TODDINGTON LANE S38 WORKS					
scale	1:250	drawn by	OJN	checked by	AB
date	JUNE 2016	cad file	MASTER IDR.DWG		
title					
PROPOSED S38 HIGHWAY WORKS CONSTRUCTION TREATMENTS DRAWING					
drawing number				rev.	
A/PHLITTLE.2/IDR-111				C1	



	Mini-Beany Details									
	Run Dimensions			Run-off		Channel Design	Capacity Check			Notes
	Run Length (m)	Run Gradient (1 in XX)	Area Drained (m²)	Design Rainfall (mm/hr)	Calculated run-off (l/sec)	System & Deepest Channel	Available Capacity (l/sec)	Required Capacity (l/sec)	% capacity used	
Internal Distributer Road										
Run 7	22.500	100	173	50	2.403	Base 210	12	2.403	20%	OK
Run 8	34.000	100	285	50	3.958	Base 210	13	3.958	30%	OK
Run 9	21.500	100	323	50	4.486	Base 210	11	4.486	41%	OK
Run 10	11.000	500	66	50	0.917	Base 210	11	0.917	8%	OK
Run 11	19.000	156	173	50	2.403	Base 210	11	2.403	22%	OK
Run 12	28.500	156	376	50	5.222	Base 210	11	5.222	47%	OK
Run 13	43.500	156	344	50	4.778	Base 210	11	4.778	43%	OK



- NOTES
- All highway drains except filter drains with 1.2m minimum cover shall be laid with Type S bedding and surround in accordance with MCHW detail F1.
 - All highway drains except filter drains with less than 1.2m cover shall be laid with Type Z bedding and surround in accordance with MCHW detail F1.
 - It is the contractors responsibility to undertake pressure tests on the completion of every drainage run between manholes on pipes up to 750mm diameter.
 - Contractor to undertake CCTV survey prior to completion certificate being signed off and issued. The sewerage shall be mechanically cleaned as directed by the Engineer.
 - All components of the combined linear kerbed drainage system, shall comply with the Highways Agency Manual of Contract Documents for Highway Works and the British Standard BS EN1433, Load classification D400 and the following:
 - The water inlet aperture shall increase in size towards the inside of the unit with a minimum divergence angle of 5°.
 - The angle of incline of the water inlet aperture shall be at least 30° to the horizontal.
 - Water inlet apertures shall be wholly within individual units and not within 100mm of the end of each unit.
 - When installed, the depth of construction from the top of the base units to the drained area surface shall be not less than 100mm.
 - The Top Block shall have an Unpolished Skid Resistance Value (USRV) in excess of 70 when tested in accordance with BS 7263:Part 3.
 - The system shall have a minimum of 13,500mm²/m water inlet aperture area.
 - The combined kerb & drainage system shall be installed with sealant applied to all joints providing a water tight system to the manufactures recommendations and to the satisfaction of the Highway Authority and Engineer. Sealant shall be Marshalls M-Flex sealant or similar approved.
 - S104 Surface water drainage taken from Glanville drawing X_Drainage_B3-B5 - WIP 26.05.15.
 - RGP Layout taken from RGP drawing 2014/1994/180.
 - B3/B5 site layout taken from Bovis drawing LITL-04 received 27/04/2016.

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A1 ORIGINAL

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KEY

- EXISTING KERB LINE
- PROPOSED KERB/EDGING LINE
- PROPOSED DROPPED KERB
- GLANVILLE S104 SURFACE WATER SEWER
- PROPOSED MARSHALLS MINI BEANY BLOCK BASE 210 UNIT AND KERB
- PROPOSED MARSHALLS MINI BEANY BLOCK BASE 260 UNIT AND KERB
- PROPOSED MARSHALLS MINI BEANY BLOCK BASE 260 UNIT AND KERB DROPPED CROSSING
- PROPOSED MARSHALLS MINI BEANY BLOCK BASE 210 UNIT AND COVER PLATE ACROSS ACCESS
- PROPOSED MARSHALLS MINI BEANY INLINE SIDE OUTFALL OUTLET
- PROPOSED MARSHALLS MINI BEANY CAST IRON ACCESS COVER
- PROPOSED MARSHALLS MINI BEANY CAP OUTLET
- PROPOSED EARTHWORKS
- PROPOSED LIMIT OF WORKS

FOR CONSTRUCTION

C1	Revision changed to construction issue. (PB)	AB	01/09/2016
P2	Drawing title & section lines updated and cycle marking amended following comments received from WSCC dated 09/08/2016. (OJN)	AB	09/08/2016

rev.	amendment	checked	date
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scale	1:250	drawn by	OJN
		checked by	AB
date	JUNE 2016	cad file	MASTER IDR.DWG
title	PROPOSED S38 HIGHWAY WORKS DRAINAGE AND DUCTING DRAWING		
drawing number	A/PHLITTLE.2/IDR-112		rev. C1