

T.N.I



NOTES

1. All adoptable highways and footpaths to be constructed in accordance with the Highway Act 1980 and the Highways (Adoption) Regulations 2006.
2. All adoptable highways and footpaths to be constructed as detailed in the Water Authorities Association Publication 'Sewers for Adoption 6th Edition'.
3. All details from adopted sewers to first private chamber to be 150mm in diameter and all details from first private chamber to first public sewer to be 150mm in diameter. All details from first public sewer to first public sewer to be 150mm in diameter.
4. Where finished ground levels fall towards a building, an open gully is to be provided at the foot of all rainwater pipes.
5. All drains and sewer pipes are to be laid soffit to soffit, unless shown otherwise.
6. All drains and sewer pipes are to be laid soffit to soffit, unless shown otherwise.
7. Refer to house type working drawings for exact position of all waste pipes.
8. Preformed pipe inspection chambers, size and type –
9. Refer to standard detail drawings for Types A-D, H & J. Refer to Typical Sewer Detail drawing for Type A-D, H & J. Refer to Typical Sewer Detail drawing for Type A-D, H & J.
10. Refer to standard detail drawings for Types A-D, H & J. Refer to Typical Sewer Detail drawing for Type A-D, H & J.
11. Refer to standard detail drawings for Types A-D, H & J. Refer to Typical Sewer Detail drawing for Type A-D, H & J.
12. Refer to standard detail drawings for Types A-D, H & J. Refer to Typical Sewer Detail drawing for Type A-D, H & J.
13. Sewer trench bedfall to be in accordance with the Typical Sewer Detail drawing.
14. Sewer trench bedfall to be in accordance with the Typical Sewer Detail drawing.
15. Sewer trench bedfall to be in accordance with the Typical Sewer Detail drawing.
16. Vision signs / forward visibility in soft landscaped areas to be removed by continuous concrete edgings.
17. Position of all existing buildings to be confirmed prior to construction.
18. Refer to Pre-Construction Information Pack & Construction Phase Health & Safety Plan prior to the commencement of works.
19. All levels relate to Ordnance Datum.
20. All levels relate to Ordnance Datum.

KEY

- Proposed adoptable foul sewer, A431
- Proposed adoptable storm sewer, A431
- Plot number, 20
- Footpath, 12
- Highway gully, 12
- Storm drainage, 12
- Backdrop, 12
- Rodding eye, 12
- Cover level, 12
- Foul invert level, 12
- Storm invert level, 12
- Channel drain, 12
- Block channel, 12
- Dashed channel, 12
- Soil & vent pipe, 12
- Standing waste stub stack, 12
- Wash hand basin, 12
- Water closet, 12
- Finished slab level (integral garage to be 150mm lower than shown), 12
- Proposed finished level, 12
- Existing level, 12
- Gravel board (max 450mm), 12
- Reinforcing wall (max retaining height shown), 12
- Log wall (max retaining height shown), 12
- Sub on Edge, 12
- Screen wall, 12
- Underbuild, 12
- Banking, 12
- Steps in paths, 12
- Number of steps, 12
- Railway sleeper steps, 12
- Heave/standing, 12
- Foul gully, 12
- Drainage to subside gully, 12

Rev	Date	Details	By
1	18.10.16	Initial design	SY
2	18.10.16	Revised design	SY
3	18.10.16	Final design	SY
4	18.10.16	As built	SY

Drainage Authority Approval Date
Highway Authority Approval Date

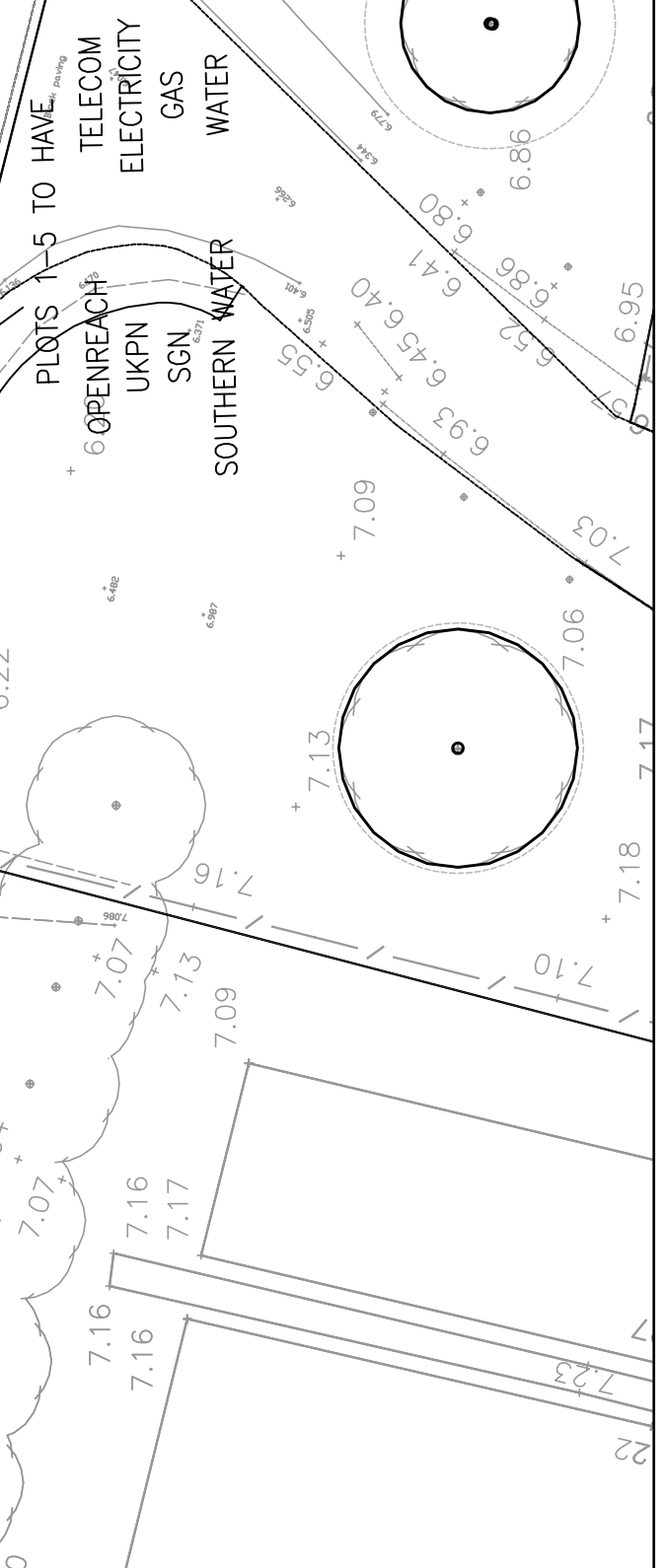
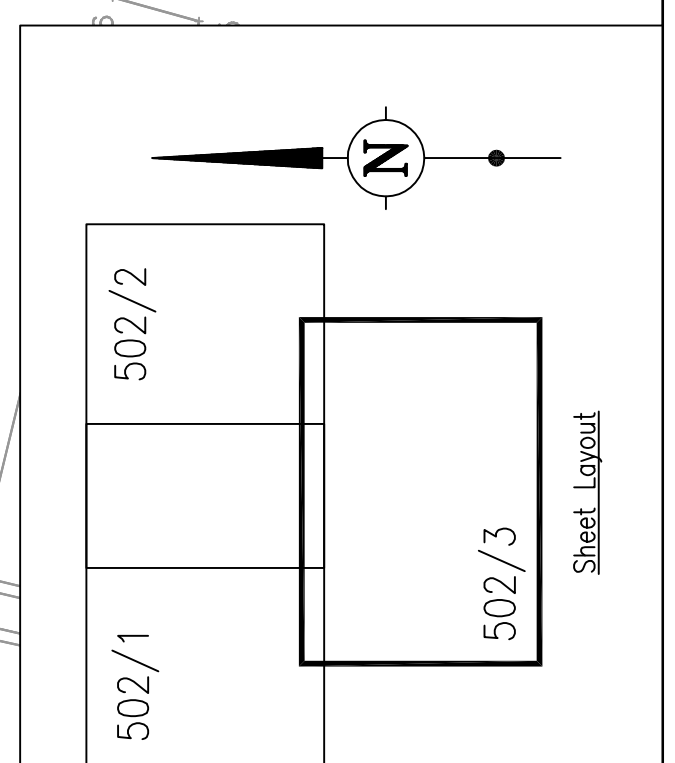
Do not scale from this drawing. Use written dimensions only. When shown relationships are to be maintained to the nearest 10mm and Engineering Director.

BOVIS HOMES
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SITE		HAMPTON PARK LITTLEHAMPTON, WEST SUSSEX	
DRAWING TITLE		ENGINEERING LAYOUT SHEET 3	
DRAWN BY	SY	DATE	NOV 2015
SCALE	1/250 at A1	CHECKED/DAT	LITL-502/3
REV		DRAWING NO.	

- DRAWING LIST
- 04 - Hard landscaping layout
 - 502/1 - Engineering layout sheet 1
 - 502/2 - Engineering layout sheet 2
 - 502/3 - Engineering layout sheet 3
 - 503/1 - Road & Sewer section sheet 1
 - 503/2 - Road & Sewer section sheet 1
 - 503/3 - Road & Sewer section sheet 1
 - 504/1 - Typical road details sheet 1
 - 504/2 - Typical road details sheet 2
 - 505 - Private drive details
 - 506 - Private parking court details
 - 507 - Private footpath details
 - 508 - Typical UPVC house drainage details
 - 509 - Typical UPVC house drainage details
 - 510 - Typical services details
 - 511 - Typical services details
 - 512/1 - Services Layout Sheet 1
 - 512/2 - Services Layout Sheet 2
 - 513 - Trench soakaway details
 - 514 - Kerb details
 - 515/1 - Contouring Layout Sheet 1
 - 515/2 - Contouring Layout Sheet 2
- Where gravel boards have been utilised post length to be increased accordingly to ensure minimum 600mm embedment in the natural ground on the low side.

- ENGINEERING LAYOUTS SHOULD BE USED FOR:
- All adoptable sewer & highway works – position & level
 - All private building drainage – position & level
 - All private & retaining works – position & height
 - Road names & postal numbers
 - Street lighting & other street furniture / signage
 - Private house paths or patios
 - House types & positions
- ENGINEERING LAYOUTS SHOULD NOT BE USED FOR:
- Feeder pillars to service private street
 - Lighting column, P11. Feeder pillars to be waterproof lockable look of adequate space for a 500x300mm meter board (EPF) such that the bottom edge of the board will not be less than 450mm or more than 1200mm from the ground (Holds E1/HDP/146 or similar). Supply & install by the Groundworks contractor.
- LATERAL SPECIFICATION
- Position & invert levels of all existing laterals to be confirmed prior to construction & any discrepancies reported to the Bovis Homes Engineer



SOUTHERN WATER NOTES

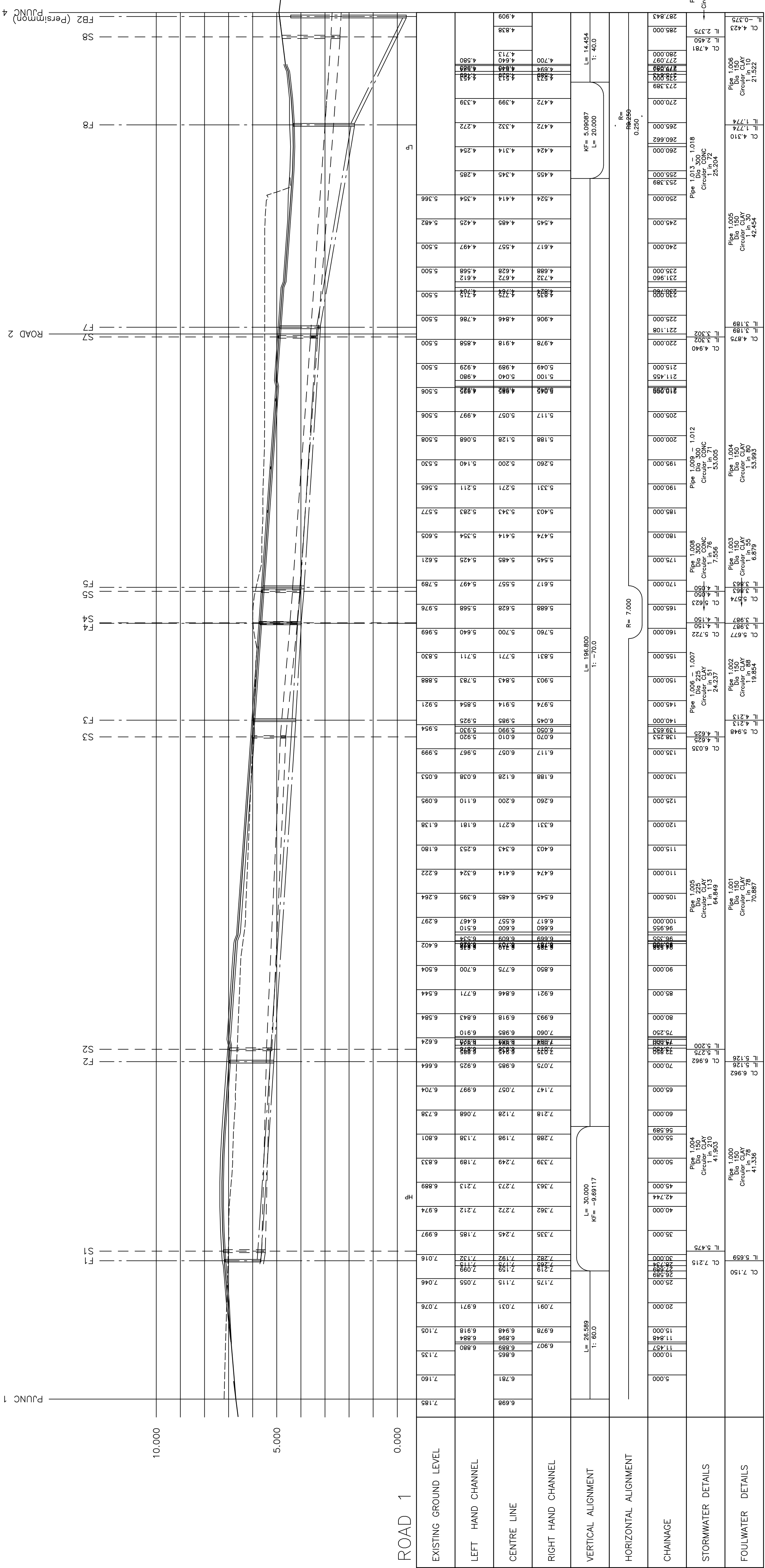
1. ALL LEVELS RELATE TO OS DATUM
2. CLASS S GRANULAR BED AND SURROUND TO ALL SEWER PIPES WHERE COVER IS GREATER THAN 1.2m BELOW FINISHED LEVELS.
3. CLASS A CONCRETE BED AND SURROUND TO ALL SEWER PIPES WHERE COVER IS LESS THAN 1.2m BELOW FINISHED LEVELS.
4. REFER TO 'TYPICAL SEWER DETAILS' DRAWING FOR MATERIAL SPECIFICATION.
5. PIPES WITH A NOMINAL PIPE RANGE OF 150MM-300MM MAY BE CONSTRUCTED IN EITHER:

o) CLAY

OR

b) UPVC (ULTRA FORTIS) WHICH IS RESISTANT TO A JETTING PRESSURE OF 4000PSI. MINIMISE THE NUMBER OF JOINTS IN THE SYSTEM BY USING 3M PIPE LENGTH & DO NOT HAVE UP SEAL JOINTS HENCE PREVENTING ROOT INGRESS.
6. ALL PIPES GREATER THAN 300MM DIAMETER TO BE CONCRETE CLASS 120 TO BS EN 1916 & BS5911-1.
7. STRENGTH OF PIPE TO BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS FOR THE DEPTH OF WHICH THE PIPES ARE TO BE Laid & THE INTENDED IMPOSED LOAD.
8. ALL ADAPTABLE DRAINAGE WORKS TO BE CONSTRUCTED AS DETAILED IN THE WATER AUTHORITIES ASSOCIATION PUBLICATION 'SEWERS FOR ADOPTION 6TH EDITION'.

----- Existing Ground Line
----- Proposed Finished Level



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SITE
HAMPTON PARK
LITTLEHAMPTON, WEST SUSSEX

DRAWING TITLE
ROAD & SEWER SECTIONS
SHEET 1

DRAWN BY	SY	DATE	NOV 2015	DRAWING NO.	REV
SCALE	1:100, 1H-1:500	CHECKED/DAT		LITL-503/1	C

SOUTHERN WATER NOTES

1. ALL LEVELS RELATE TO OS DATUM
2. CLASS 5 GRANULAR BED AND SURROUND TO ALL SEWER PIPES WHERE COVER IS GREATER THAN 1.2m BELOW FINISHED LEVELS.
3. CLASS 6 CONCRETE BED AND SURROUND TO ALL SEWER PIPES WHERE COVER IS LESS THAN 1.2m BELOW FINISHED LEVELS.
4. REFER TO 'TYPICAL SEWER DETAILS' DRAWING FOR MATERIAL SPECIFICATION.
5. PIPES WITH A NOMINAL PIPE RANGE OF 150MM-300MM MAY BE CONSTRUCTED IN EITHER:
 - a) CLAY
 - OR
 - b) UPVC (ULTRA FORTIS) WHICH IS RESISTANT TO A JETTING PRESSURE OF 400PSI, MINIMISE THE NUMBER OF JOINTS IN THE SYSTEM BY USING 3M PIPE LENGTH & DO NOT HAVE LIP SEAL JOINTS HENCE PREVENTING ROOT INGRESS.
6. ALL PIPES GREATER THAN 300MM DIAMETER TO BE CONCRETE CLASS 120 TO BS EN 1916 & BS5911-1.
7. STRENGTH OF PIPE TO BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS FOR THE DEPTH OF WHICH THE PIPES ARE TO BE LAD & THE INTENDED IMPOSED LOAD.
8. ALL ADAPTABLE DRAINAGE WORKS TO BE CONSTRUCTED AS DETAILED IN THE WATER AUTHORITIES ASSOCIATION PUBLICATION 'SEWERS FOR ADOPTION 6TH EDITION'.

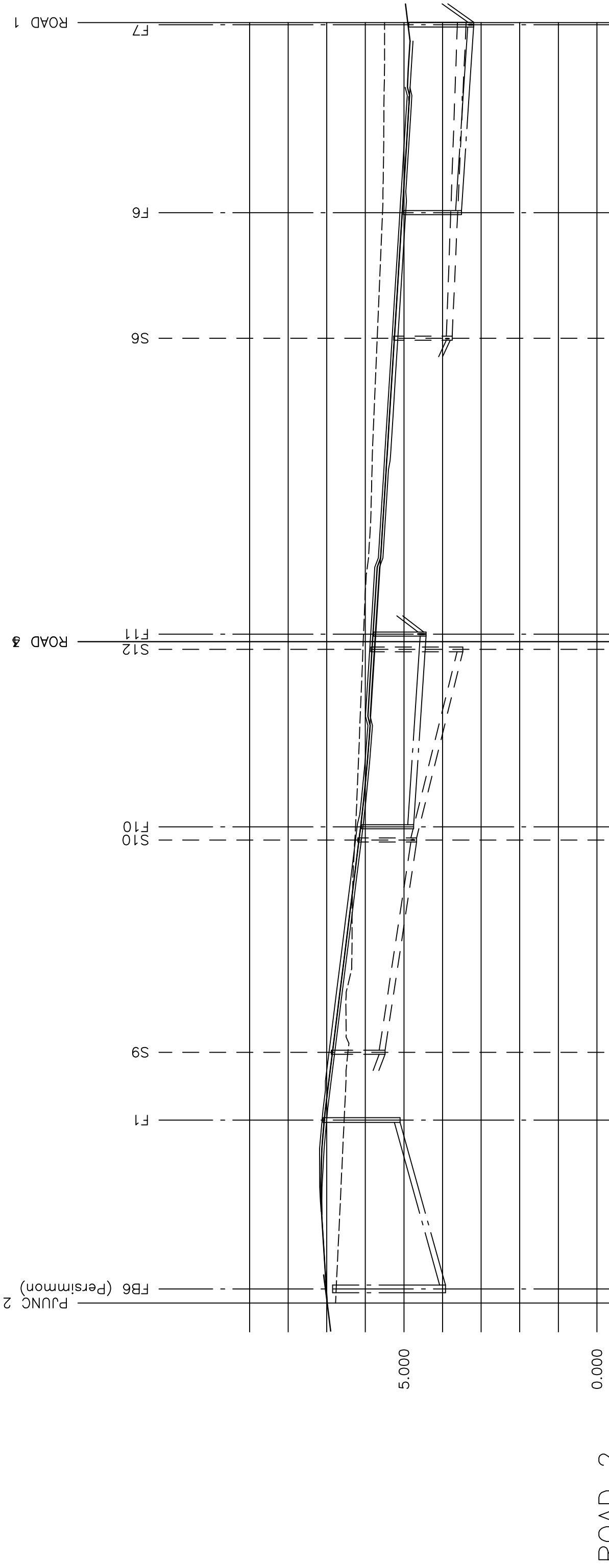
OR

b) UPVC (ULTRA FORTIS) WHICH IS RESISTANT TO A JETTING PRESSURE OF 4000PSI, MINIMISE THE NUMBER OF JOINTS IN THE SYSTEM BY USING 3M PIPE LENGTH & DO NOT HAVE LIP SEAL JOINTS HENCE PREVENTING ROOT INGRESS.

6. ALL PIPES GREATER THAN 300MM DIAMETER TO BE CONCRETE CLASS 120 TO BS EN 1916 & BS5911-1.
7. STRENGTH OF PIPE TO BE IN ACCORDANCE WITH THE MANUFACTURERS' RECOMMENDATIONS FOR THE DEPTH, OF WHICH THE PIPES ARE TO BE LAID & THE INTENDED IMPOSED LOAD.
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Existing Ground Line

Proposed Finished Level



	0.000	0.000	0.000
D			
U			
W			
C			

EXISTING GROUND LEVEL	VERTICAL ALIGNMENT									
	L = 10.525 1: 80.0									
	L = 15.000 KF = -4.0									
RIGHT HAND CHANNEL	L = 35.258 1: -40.0									
	L = 15.000 KF = 12.0									
	L = 15.000 1: -80.0									
CENTRE LINE	6.989	7.052	7.114	7.176	7.238	7.300	7.362	7.424	7.486	7.548
	6.773	6.835	6.897	6.959	7.021	7.083	7.145	7.207	7.269	7.331
	6.726	6.788	6.850	6.912	6.974	7.036	7.098	7.160	7.222	7.284
LEFT HAND CHANNEL	5.878	5.940	6.002	6.064	6.126	6.188	6.250	6.312	6.374	6.436
	5.818	5.880	5.942	6.004	6.066	6.128	6.190	6.252	6.314	6.376
	5.778	5.840	5.902	5.964	6.026	6.088	6.150	6.212	6.274	6.336
	5.736	5.798	5.860	5.922	5.984	6.046	6.108	6.170	6.232	6.294
	5.694	5.756	5.818	5.880	5.942	6.004	6.066	6.128	6.190	6.252
	5.652	5.714	5.776	5.838	5.900	5.962	6.024	6.086	6.148	6.210
	5.610	5.672	5.734	5.796	5.858	5.920	5.982	6.044	6.106	6.168
	5.568	5.630	5.692	5.754	5.816	5.878	5.940	6.002	6.064	6.126
	5.539	5.601	5.663	5.725	5.787	5.849	5.911	5.973	6.035	6.097
	5.519	5.581	5.643	5.705	5.767	5.829	5.891	5.953	6.015	6.077
	5.502	5.564	5.626	5.688	5.750	5.812	5.874	5.936	5.998	6.060
	5.500	5.562	5.624	5.686	5.748	5.810	5.872	5.934	5.996	6.058
	5.500	5.562	5.624	5.686	5.748	5.810	5.872	5.934	5.996	6.058
	5.500	5.562	5.624	5.686	5.748	5.810	5.872	5.934	5.996	6.058
	5.500	5.562	5.624	5.686	5.748	5.810	5.872	5.934	5.996	6.058

[illegible]

C	08.11.16	S12-Outfall – Pipe up sized to a 375.	NM
B	28.09.16	Drainage amended to suit engineering layout.	SY
A	18.01.16	Drainage amended to suit engineering layout.	SY

Rev	Date	Details	By
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Drainage Authority Approval Date

Highway	Authority	Approval Date
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Do not scale from this drawing. Use written dimensions only. When shown relationships between slab levels and ground levels are to be checked on site. Any discrepancy or suggested modification to be reported to Design and Engineering Director.
Note : This drawing is the copyright of Bovis Homes Ltd.



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SITE
LAWSTON PARK

HAMPTON PARK
LITTLEHAMPTON, WEST SUSSEX

DRAWING TITLE

ROAD & SEWER SECTIONS

SHEET 2

DRAWN BY SY	DATE NOV 2015	DRAWING NO. LITL-503/2	REV C
SCALE: V=1:100, H=1:500			

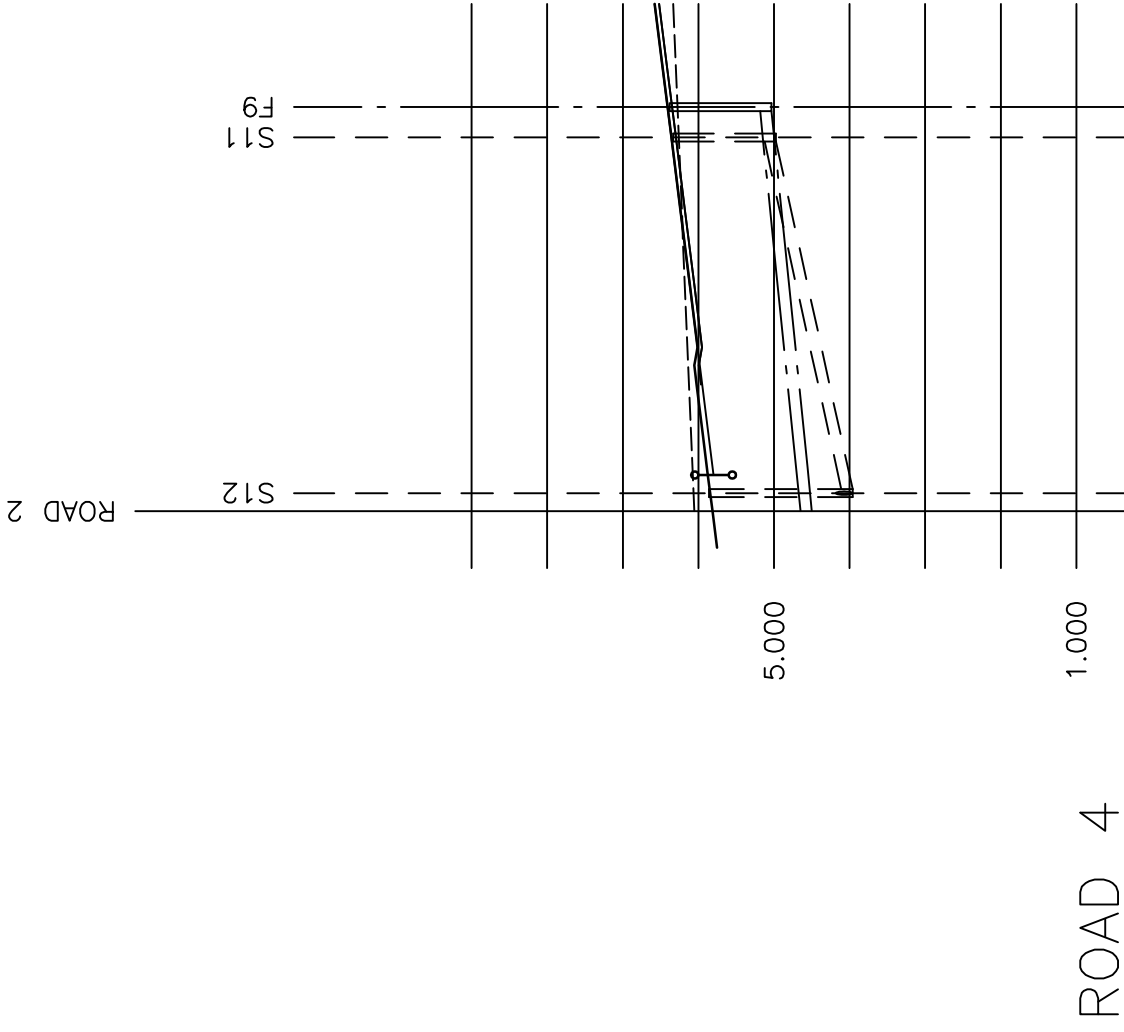
SOUTHERN WATER NOTES

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3. CLASS A CONCRETE BED AND SURROUND TO ALL SEWER PIPES WHERE COVER IS LESS THAN 1.2m BELOW FINISHED LEVELS.
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5. PIPES WITH A NOMINAL PIPE RANGE OF 150MM-300MM MAY BE CONSTRUCTED IN EITHER:

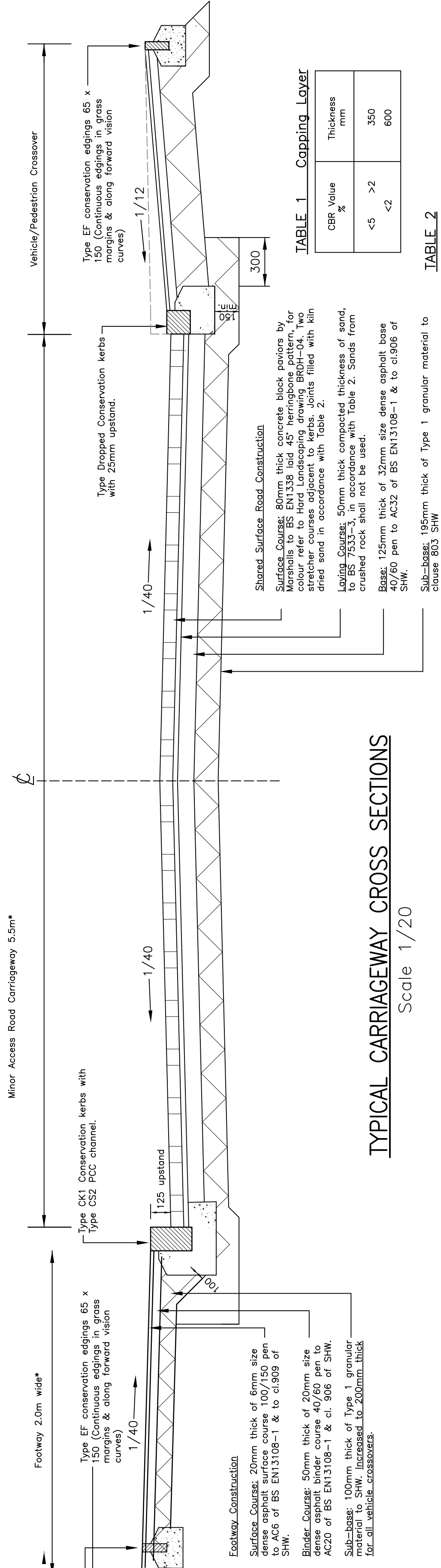
a) CLAY

OR

b) UPVC (ULTRA FORTIS) WHICH IS RESISTANT TO A JETTING PRESSURE OF 4000PSI. MINIMISE THE NUMBER OF JOINTS IN THE SYSTEM BY USING 3M PIPE LENGTH & DO NOT HAVE UP SEAL JOINTS HENCE PREVENTING ROOT INGRESS.
6. ALL PIPES GREATER THAN 300MM DIAMETER TO BE CONCRETE CLASS 120 TO BS EN 1916 & BS5911-1.
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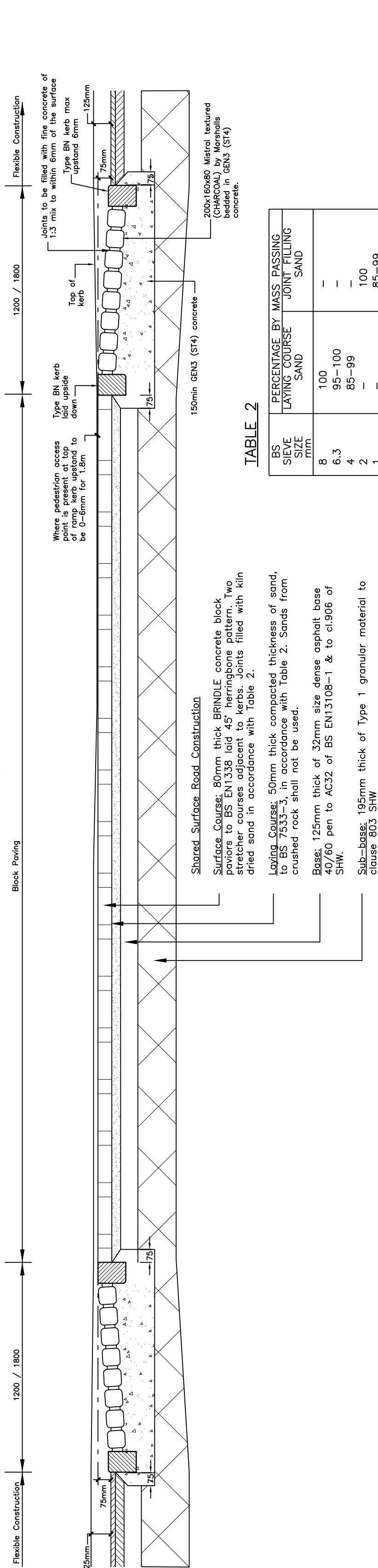
*Refer to Engineering Layout



TYPICAL CARRIAGEWAY CROSS SECTIONS

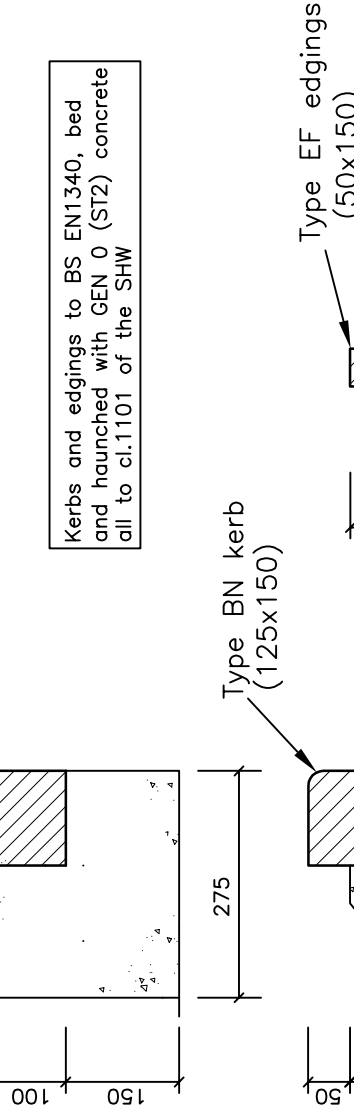
Scale 1/20

Scale 1/20



RAISED TABLE DETAIL

Scale 1/20



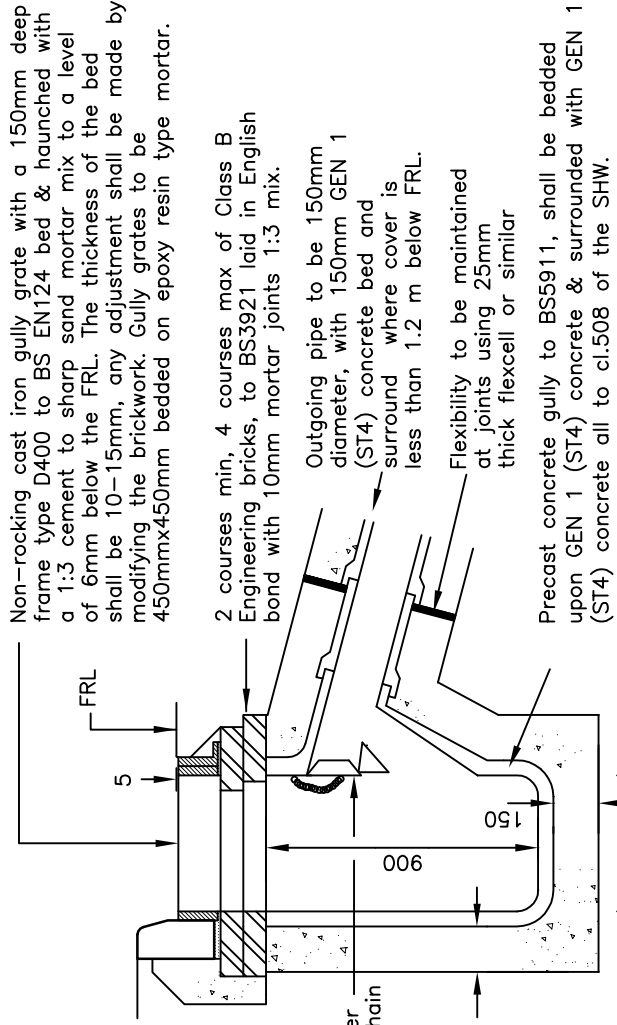
EDGE RESTRAINTS

Scale 1/10

STREET LIGHTS ACCESS PLINTH

(Where footways/service margins are less than 0.5m wide)

Scale 1/50



GULLY DETAIL

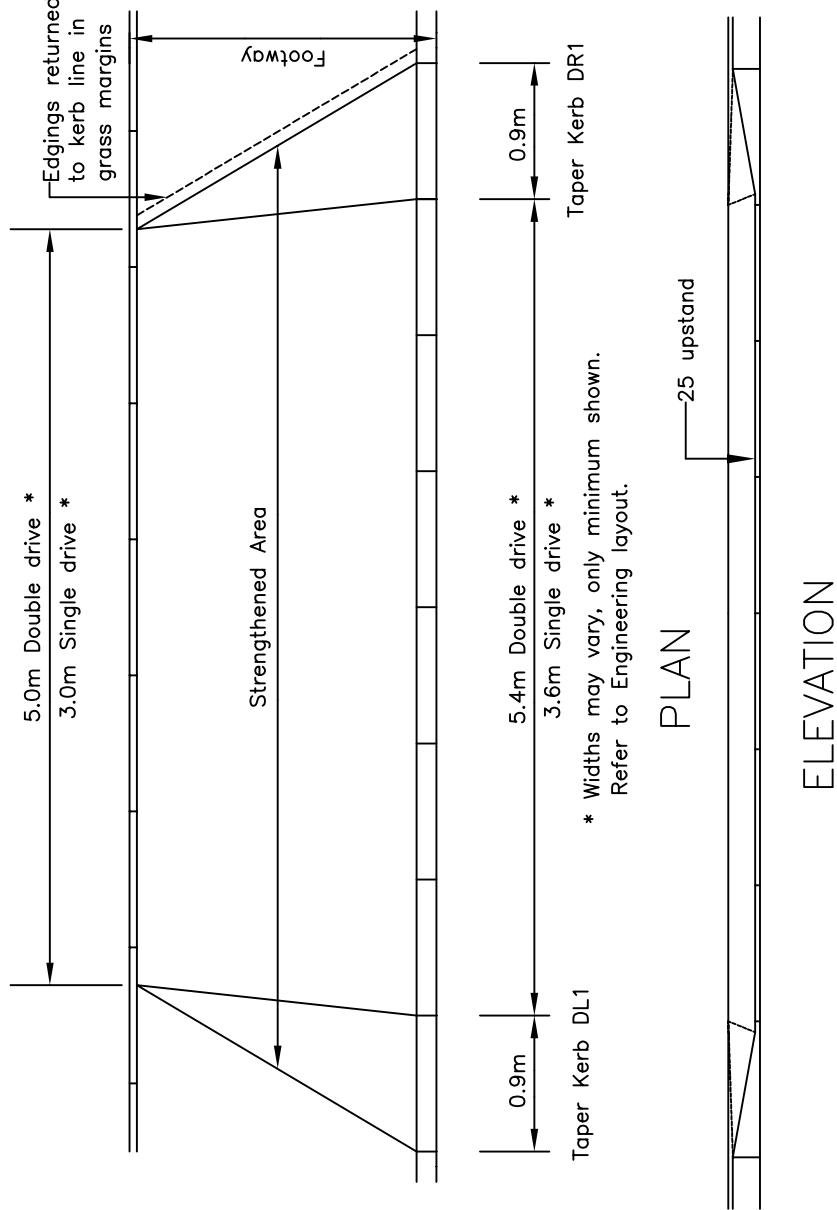
Scale 1/25

TEMPORARY KERB RACE DETAIL

Scale 1/10

VEHICLE CROSSEVER PLAN

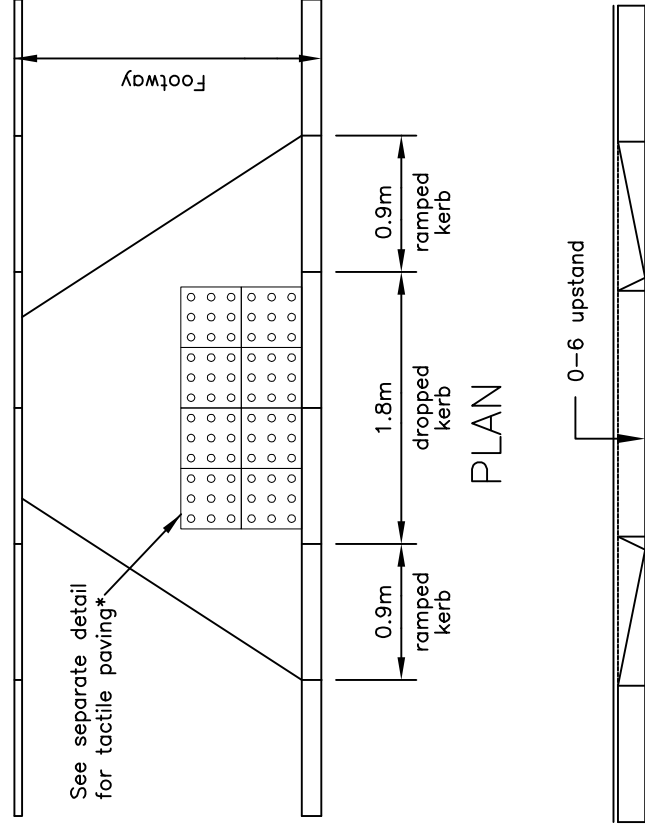
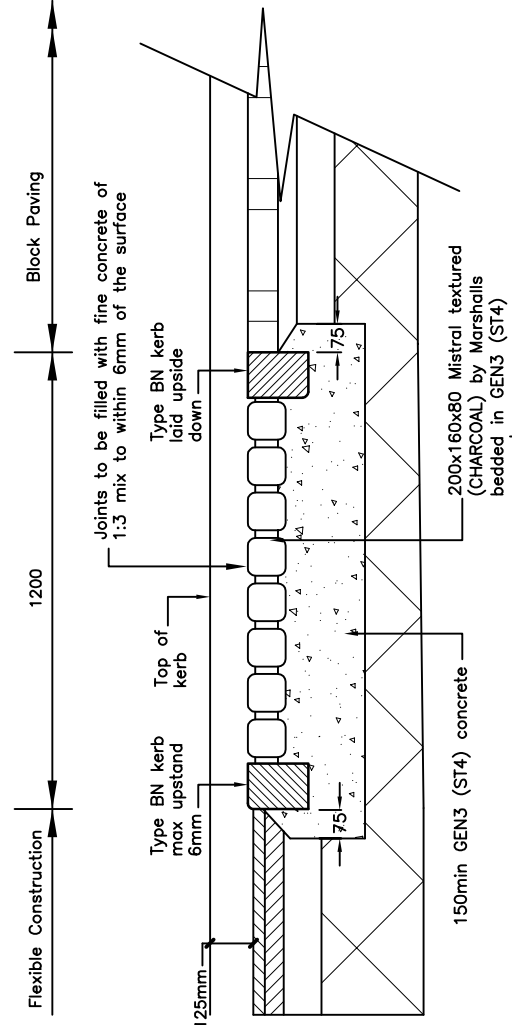
Scale 1/50



ELEVATION

FLAT PANEL DETAIL

Scale 1/20



ELEVATION

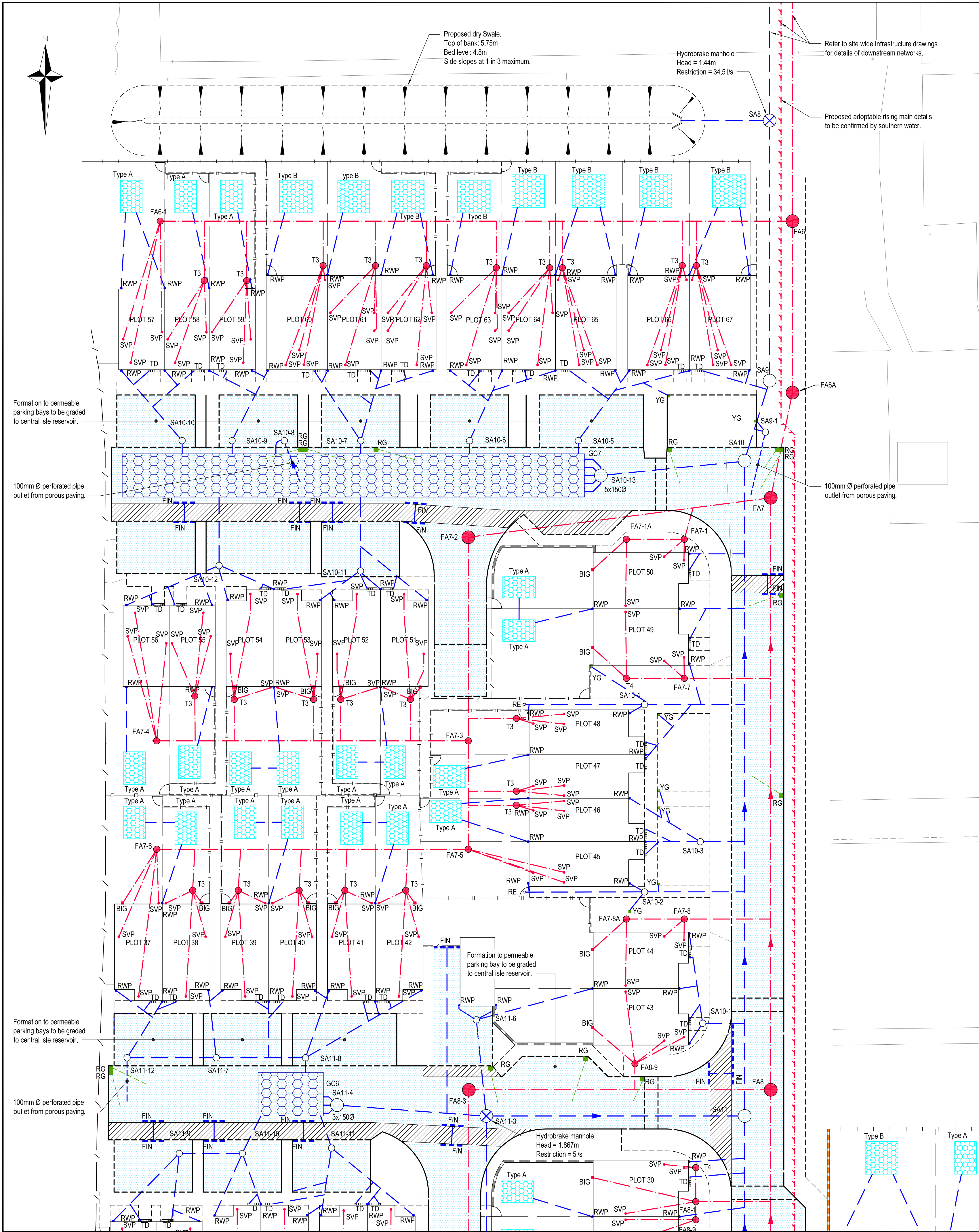
PRAM CROSSING DETAIL

Scale 1/50

NOTES

- All carriageway materials to be laid and compacted in accordance with their respective British Standard and DTP Specification for Highway Works. (SHW) Including West Sussex County Council amendments Asphalt (HMA & WMA) – BS 5948/7 Tack Coat – BS 5948/8 Capping – Series 600 of SHW Concrete Paving Blocks – BS 7533-3 Kers – BS 7533-4
- Additional material required to make up levels in fill areas shall be a well compacted material with a CBR of 15% or greater and shall be compacted to a minimum depth of 300mm beyond the kerb haunching will be required to facilitate adequate compaction at the edges.
- If the basecourse is to be left as a running surface then it shall be sealed with coated grit immediately on completion of the bindercourse.
- A tack coat of K1-40 or A1-40 to BS434Pt.1; and PL2 shall be applied prior to the next course being laid on all courses that are not covered immediately by the next layer. The rate of application shall be 0.4 L/S.
- All road construction to be strictly in accordance with the West Sussex County Council Specification and the SHW.
- Any discrepancy in soil condition to be reported to the resident site management and the Highway Inspector.
- Formation level to be treated with a granular weed killer or pre-emergent type.
- Gully pots and ironwork shall comply with the BS1 Interlocking Standard and shall be marked with the BSI trademark, the 'Kitemark'.
- No surfacing areas are to be completed until all street lighting columns, traffic signs, and other street furniture are in place and the work with the approval of the Highway Authority.
- Footways and footpaths basecourse to be sealed with coated grit if not topped with wearing course within 48 hours.
- All gullies to be adopted by the Highway Authority are to have a Grade 0400 cover & frame with a 900x92 min. area of waterway and a min. combined cover & frame weight of 50kg. Gully grates located within Homezones and shared surface area shall be suitable for pedestrian use.
- All gullies within the carriageway are initially to be set at 150mm above basecourse level and reset prior to the final wearing course.
- Particular attention must be given to exposing the formation level (FRL) to the elements of the FL haunch of the kerb being laid if the FL haunch is left open to the elements for longer than necessary & has subsequently weakened the sub-soil then the FL shall be reduced further to a level agreed with the Engineer and replaced with a suitable material as per Note 2.
- The contractor is to provide prior to construction a detailed method statement for the proposed construction methods and recycled materials to Highway Authority and Bovis Homes for approval.
- In-situ CBR tests shall be taken to confirm the coping layer/fall-base requirements & to finalise the overall construction thickness prior to the commencement of construction. The BH Engineer will agree with the highway authority the above requirement.

APPENDIX Q: Drawings, Parcel A1: Civil & Drainage Drawings



KEY

- Site boundary
- Existing foul water sewer
- Existing surface water sewer
- Proposed foul water sewer
- Proposed surface water sewer
- Proposed foul water rising main
- RWP Rainwater down pipe. Refer to architects details.
- SVP Soil vent pipe / foul connection. Refer to Architects details.
- BIG Back Inlet Gully. Location indicative. Refer to Architects details.
- RE Proposed rodding eye
- RG Proposed road gully
- YG Proposed yard gully
- FZ1 Proposed foul water manhole. Refer to sewer schedules for details.
- S11 Proposed surface water manhole. Refer to sewer schedules for details.
- S11 Proposed Hydrobrake by Hydro International (01275 878371).
- FIN Proposed Hydraway FinDrain fitted with 110mm OD outlet and Top Hat unless noted otherwise.
- Proposed perforated distributor / collection pipe wrapped in Terram 1000 permeable geotextile
- ACO Proposed Linear drainage channel - ACO S100 (or similar approved), unless noted otherwise.
- TD Proposed Threshold drain - ACO Hex Drain Brick Slot (or similar approved), unless noted otherwise.
- T3 / T4 Proposed Type 3 / Type 4 Surface/Foul Water Inspection Chamber
- Denotes area with permeable sub-base reservoir. Refer engineering layout for details.
- Proposed Geocellular storage wrapped in geotextile. Wavin Aquacell Plus or similar approved. Refer note 19.
- Proposed Domestic Soakaway wrapped in geotextile. Wavin Aquacell Plus or similar approved. Refer notes 19 / 20
Type A = 2.0m x 3.0m x 0.4m high
Type B = 3.0m x 3.0m x 0.4m high
- Proposed headwall
- Root protection area - All works within the RPA to be approved and monitored by the Arboriculturalist. See Landscape Architect's drawings for trees to be removed.
- Non porous service strip. Refer to Engineering drawings for details.

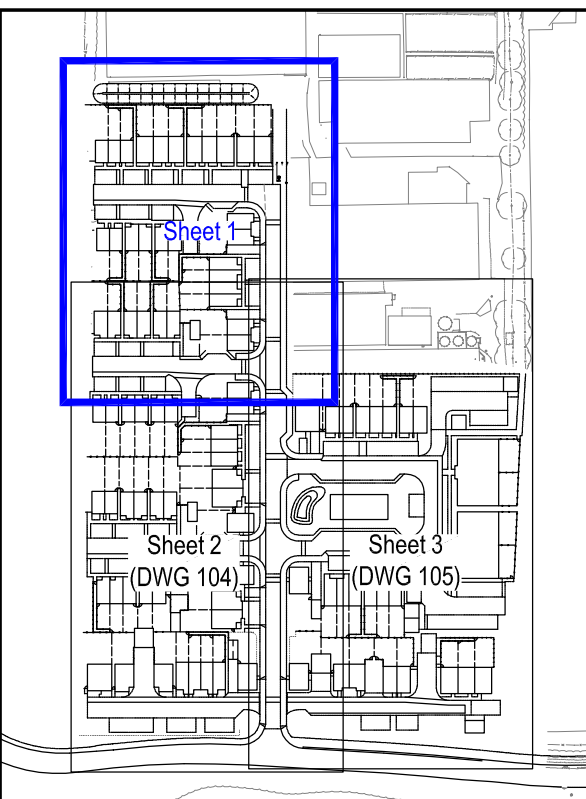
GEOCELLULAR STORAGE

Reference	Dimensions (m)	CL (m)*	SL (m)
GC1	29.0 x 2.5 x 0.8	7.00 - 7.60	5.10
GC2	15.5 x 2.0 x 0.8	6.90 - 7.15	5.25
GC3	6.0 x 4.0 x 0.8	7.60 - 7.85	5.55
GC4	16.0 x 6.0 x 0.8	7.05 - 7.35	5.25
GC5	15.0 x 4.0 x 0.8	7.55 - 7.75	5.60
GC6	6.0 x 4.0 x 0.8	7.40 - 7.60	5.50
GC7	42.5 x 4.0 x 0.8	6.20 - 6.60	4.40

*Cover levels are approximate, refer to engineering layout for detailed levels.

NOTES

- This drawing to be read in conjunction with all relevant documents and specifications.
- Dimensions not to be scaled.
- All works to be carried out in accordance with Sewers for Adoption 7th Edition.
- Covers & frames to existing chambers to be adjusted to suit new levels.
- All manhole chamber covers to be installed parallel to final kerbs, edgings, paving joints or building lines as appropriate.
- Drainage connections to adopted Southern Water sewers to be strictly in accordance with note 3 and Section 106 of the Water Industry Act.
- This drawing details all below ground drainage up to finished floor level. For details of drainage above finished floor level, refer to Architects drawings.
- Soil and rain water pipe locations are indicative only, refer to Architects drawings for details.
- For levels of all external handstanding refer to the Engineering Layouts.
- All rainwater downpipes to be provided with above ground roddable access points.
- All stack connections under buildings to be 100mmØ at minimum gradient of 1 in 40 unless otherwise noted.
- All RWP connections to be 100mm at minimum gradient of 1 in 100 unless otherwise noted.
- 150mmØ to 225mmØ pipework for adoption to be Vitrified Clay (VC) pipes, Kitemark certificate with flexible spigot and socket joints and shall comply with the requirements of BS EN 295 and BS 65 (Surface Water Only).
- 300mmØ and above pipework for adoption to be concrete, Kitemark certified with flexible spigot and socket joints and shall comply with the requirements of BS EN 1916 and BS 5911 Part 1.
- Private pipework may be either VC or thermoplastic structured wall sewer pipe and shall comply with WIS 4-35-01. Pipes shall be BSI Kitemarked, or have equivalent third part certification.
- The existing services shown are taken from existing records and are indicative only. No guarantee is given as to their accuracy which must be confirmed on site by hand dug trial holes prior to commencing excavation.
- All existing chambers, gullies, etc within the works which are NOT to be reused shall be broken down to below formation level and the remaining void back filled with lean concrete to formation level.
- Contractor to ensure garden area is prepared for landscaping in accordance with NHBC standard 9.2-S6.
- Geocellular systems have been based on a typical soakage rate of 1.4 x 10⁻⁶ m/s provided in the ground investigation report. Rates should be confirmed at the site with soakage testing to BRE365 at the proposed location and depth of all soakaways / storage features prior to construction.
- All new domestic geocellular soakaways are to be founded within the sand layer indicated to be at depths of around 2.0m within the ground investigation report. Minimum cover within landscaped areas to be not less than 0.5m.



C2	Layout of Plots 51-56 amended	15/08/2016 AH	KR
C1	Services strips added and site layout amended to latest Architects drawings. Drainage revised to suit.	03/11/2015 MM	SH
P1	Preliminary Issue	19/06/2015 MP	SH
Rev.	Description	Date	Chkd



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PERSIMMON

Client :

Project : TODDINGTON LANE NORTH LITTLEHAMPTON

Title : Parcel A1 Drainage Layout Sheet 1 of 3

Project Engineer : S Hudson Scale : 1:200 @ A1

Project Director : K. Rayner Date : June 2015

Status : CONSTRUCTION

Drawing No. CV8150558/103 Rev C2