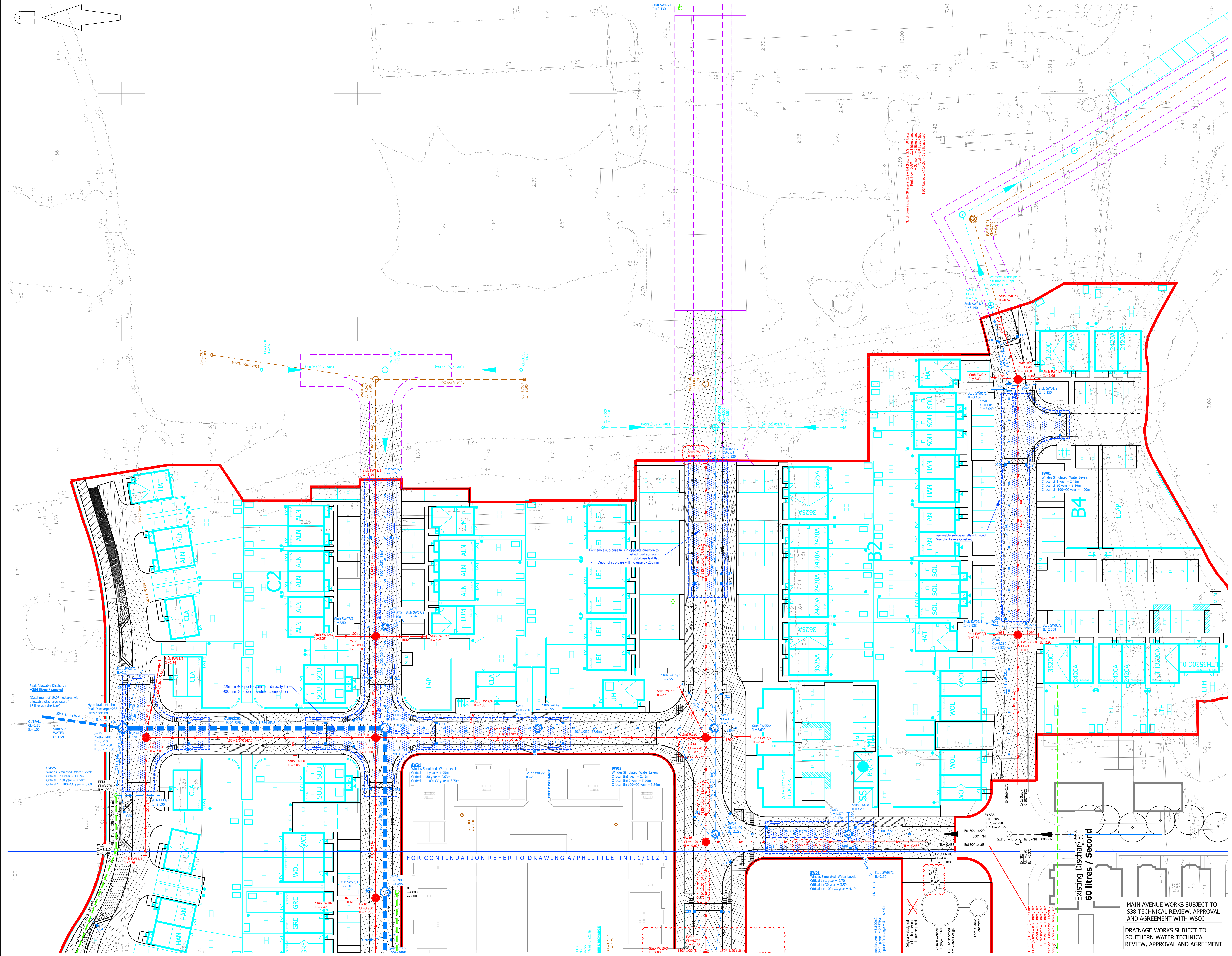




0 ORIGINAL

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SURFACE WATER KEY

- | | |
|---|---|
|  | PROPOSED SEWER AND MANHOLE |
|  | PROPOSED OVERSIZED PIPE |
|  | PROPOSED GULLY AND GULLY CONNECTION |
|  | OUTLINE OF PERMEABLE SUBBASE BENEATH CARRIAGEWAY (REFER TO DETAILS A/PH/LITTLE-INT.1/MB/F/02) |
|  | PROPOSED DISPERSION PIPE INTO SUBBASE (REFER TO DETAIL A/PH/LITTLE-INT.1/MB/F/02) |
|  | PROPOSED COLLECTION DRAIN WITHIN CARRIAGEWAY (REFER TO DETAIL A/PH/LITTLE-INT.1/MB/F/02) |
|  | PROPOSED ATTENUATION TANK |
|  | PROPOSED FILTER TRENCH |
|  | EXISTING SEWER AND MANHOLE |
|  | PROPOSED SEWER AND MANHOLE FOR FUTURE PLOTS |

DOUL WATER KEY

-  PROPOSED SEWER AND MANHOLE
 PROPOSED BACKDROP MANHOLE
 EXISTING SEWER AND MANHOLE
 PROPOSED SEWER AND MANHOLE FOR FUTURE PLOTS
 SITE BOUNDARY

NOTES:

2. This drawing is not to be scaled
3. This drawing is to be read in conjunction with the MIA and the following drawings: 117 Drawing reference: 5091-01, received on 30/11/2017.
4. This drawing is to be read in conjunction with the latest revision of the MIA and the following drawings: by WRC in July 2008, drawing number GGL/AD400/20/LAY/011.
5. Site layout taken from PHTV drawing number 543_PLS_SITE
6. The proposed road and footpath levels have been set to ensure they are a minimum of 300mm above the nearest 1:100yr flood level. The proposed drainage levels have been set in accordance with the report. The finished floor levels of the proposed walkways will be above the adjacent road and footpath levels to ensure they are a minimum of 300mm above the nearest 1:100yr flood level.
7. All on-site civil and drainage works constructed in accordance with the Mayor Brown Limited Specification, details and schedules.
8. Proprietary items are to be constructed in accordance with manufacturers recommendations / requirements.
9. All works are to be constructed in accordance with the requirements of the Local Authority, the Environment Agency and in conjunction with the following statutory codes of practice: British Standards, British Standards Approved Codes of Practice, Sewers for Adoption 3rd Edition and any amendments as appropriate.
10. All existing and proposed locations of existing drains / chambers / sewers where new connections are to be made must be checked and confirmed to the engineer prior to the commencement of any work.
11. All new manholes and catchpots are to be soffit to suit unless noted otherwise. Invert level shown is outlet pipe.
12. All existing drainage structures are to be retained as part of the new scheme shall be cleaned and inspected. Any structural defects shall be repaired using appropriate and approved materials.
13. All drainage shall comply with the typical details and the requirements of BS EN 752 and Part H of the Building Regulations.
14. All runs connecting into the public drainage network to be vented dry, except lengths to BS EN 295 or BS655 with plain end connections.
15. All precast concrete units used in the drainage works shall be manufactured using sulphate resisting cement.
16. All manholes shall be constructed in accordance with BS EN 124 and shall be kitemarked. The strength classes of covers are shown in the manhole schedules.
17. Levels shown are to be adjusted locally to suit finished ground levels.
18. **HEALTH AND SAFETY:** The works shall be carried out by signed competent and experienced contractors who are members of a recognised national organisation. Operators shall have received full appropriate training for the operations and shall be fully conversant with the relevant legislation in accordance with all pertinent Health and Safety Regulations.
19. All works and materials shall comply with the Highways Agency Specification for Materials and Methods of Construction (MCHM) and West Sussex County Council Standard details.

FOR CONSTRUCTION

C3	Foul drainage altered, refer to revision clouds. (O/N)	SF	14/03/2018
C2	Drainage strategy updated and in abeyance revision cloud removed. (IC)	SF	20/02/2018
C1	Drainage strategy updated. (O/N)	SF	09/02/2018
T4	Notes updated. (O/N)	SF	23/01/2018
T3	Site layout updated and abeyance area removed. (O/N)	SF	16/01/2018
T2	General update. (IC)	SF	01/12/2017
T1	Initial tender issue. (O/N)	SF	10/11/2017

rev.	amendment	checked	date
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client
PERSIMMON HOMES THAMES VALLEY

project

NORTH LITTLE HAMPTON PHASE 2

PARCEL C1 AND PART PARCELS B2, B4 & C2

date	NOVEMBER 2017	cad file	MASTER.DWG
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DRAINAGE GENERAL ARRANGEMENT (2 OF 2)

A/PHLITTLE-INT.1/112-2 C3

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.
- This drawing is to be read in conjunction with MBL detail reference PHLITTLE-INT.2_MB/F/02 that shows how surface run-off is discharged into and collected from the OGCR permeable sub-base.
- 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.

WSCC ADOPTABLE ESTATE ROADS

- IN ACCORDANCE WITH WSCC S278/38/21
- MAIN AVENUE - LOCAL DISTRIBUTOR
- BASED UPON 2% CBR

FLEXIBLE CARRIAGEWAY & FLEXIBLE RAISED TABLE

- SURFACE: 50mm
- BINDER: 60mm
- BASE: 150mm
- TYPE 1: 150mm
- 6F CAPPING: 600mm

NON ADOPTABLE ESTATE ROADS - STANDARD CONSTRUCTION

- IN ACCORDANCE WITH ACCORDANCE WITH WSCC S278/16, -/21 AND MBL DETAIL REFERENCE MB/C/01
- ACCESS ROAD (<200 DWELLINGS)
- BASED UPON 2% CBR

FLEXIBLE CARRIAGEWAY

- SURFACE: 30mm
- BINDER: 60mm
- BASE: 100mm
- TYPE 1: 150mm
- 6F CAPPING: 600mm

BLOCK PAVED RAISED TABLE

- BLOCK: 80mm BLOCK
- SAND: 30mm SAND
- BASE: 100mm
- TYPE 1: 150mm
- 6F CAPPING: 655mm

NON ADOPTABLE ESTATE ROADS - PERMEABLE SUB-BASE CONSTRUCTION

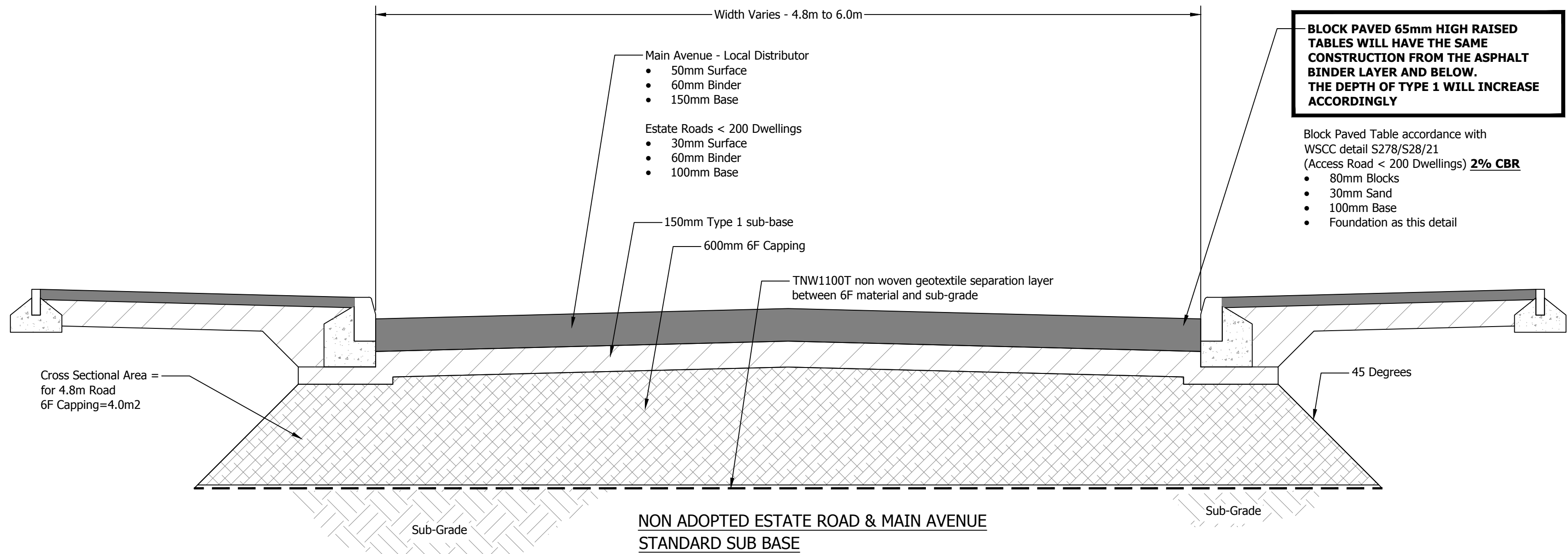
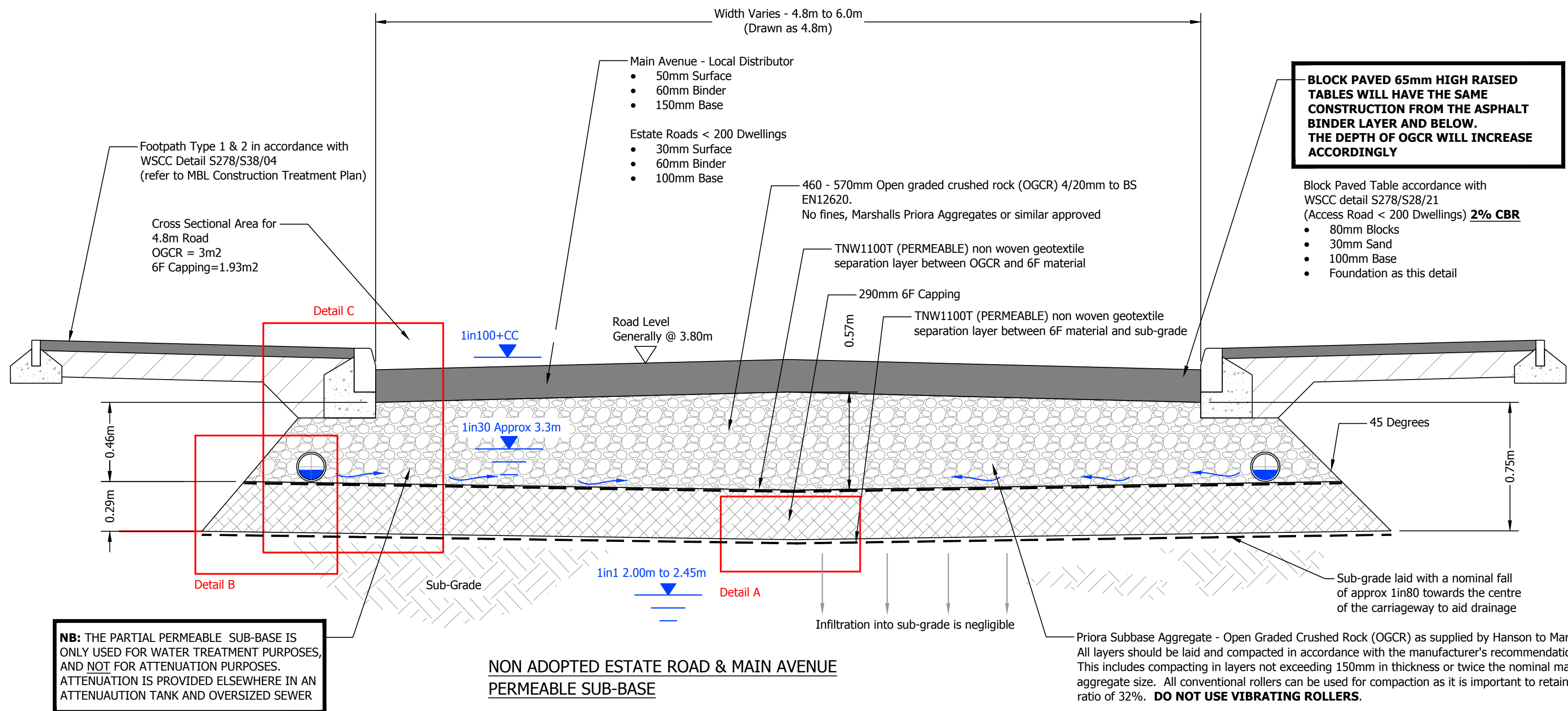
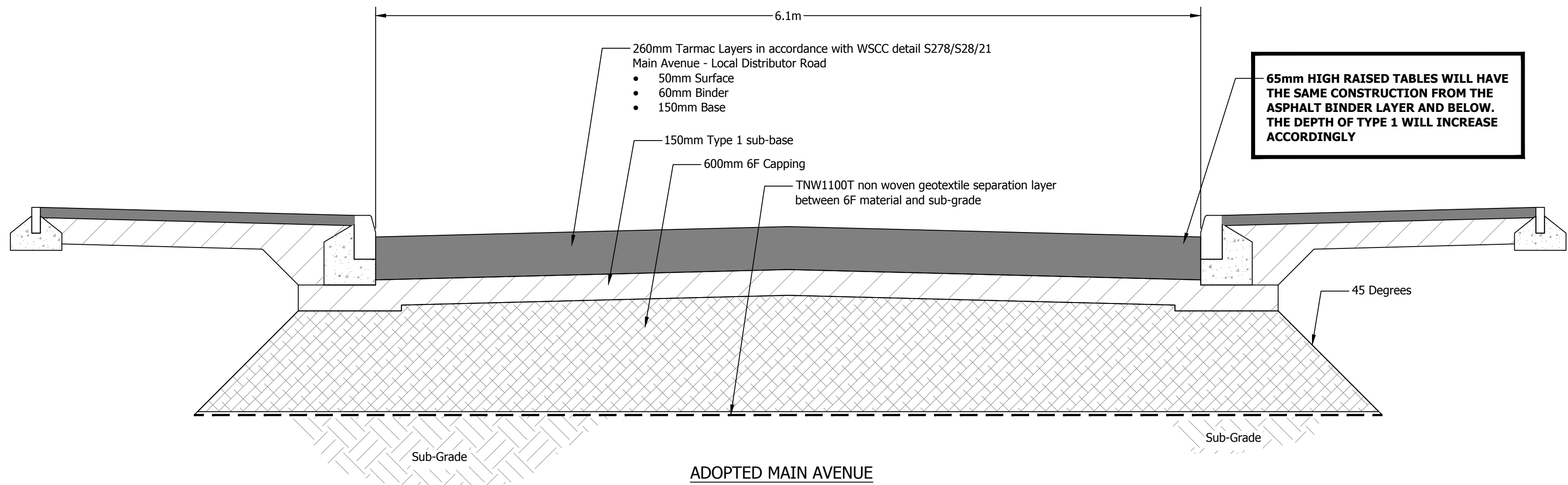
- SURFACING IN ACCORDANCE WITH WSCC S278/38/21 AND MBL DETAIL REFERENCE MB/C/01 AND MB/F/02
- ACCESS ROAD (<200 DWELLINGS)
- BASED UPON 2% CBR

FLEXIBLE CARRIAGEWAY

- SURFACE: 30mm
- BINDER: 60mm
- BASE: 100mm
- TYPE 1: 150mm
- OPEN GRADED CRUSHED ROCK: 460mm min.
- 6F CAPPING: 290mm

BLOCK PAVED RAISED TABLE

- BLOCK: 80mm BLOCK
- SAND: 30mm SAND
- BASE: 100mm
- TYPE 1: 150mm
- OPEN GRADED CRUSHED ROCK: 505mm min.
- 6F CAPPING: 290mm



FOR CONSTRUCTION

C1	Construction issue. (ON)	SF	09/02/18
T1	Initial issue. (SF)	SF	08/02/18

rev.	amendment	checked	date
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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 checked by SF

date FEBRUARY 2018 cad file MBC01.DWG

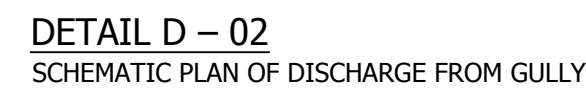
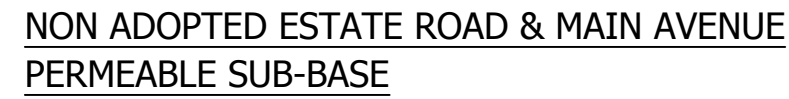
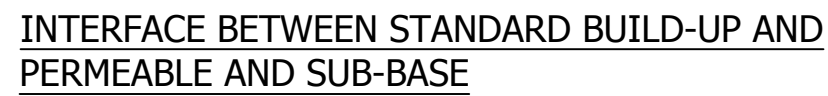
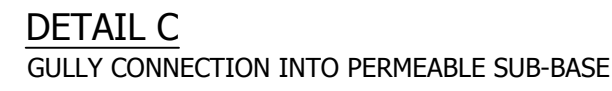
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ADOPTED & NON ADOPTED ROADS
CONSTRUCTION DETAILS

drawing number A/PHLITTLE-INT.2_MB/C/01 rev. C1

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1. Carriageway sub-base and capping layer thicknesses are to be determined in accordance with the WSSC detail numbered S278/38/21, unless otherwise agreed.
2. The CBR of the subgrade has 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.
3. No material within 450mm of the carriageway surface shall be frost susceptible.
4. Where directed by the Engineer the Contractor shall carry out additional testing in order to prove the CBR value of the sub-grade material.
5. 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.



C1	Construction issue. (OJN)	SF	09/02/18
T1	Initial issue. (SF)	SF	08/02/18

rev.	amendment	checked	date
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project

NORTH LITTLEHAMPTON PHASE 2
PARCEL C1 AND PART PARCEL B2, B4 AND C2

scale	1:20	drawn by	SF	checked by	SF
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date	FEBRUARY 2018	cad file	MBC01.DWG
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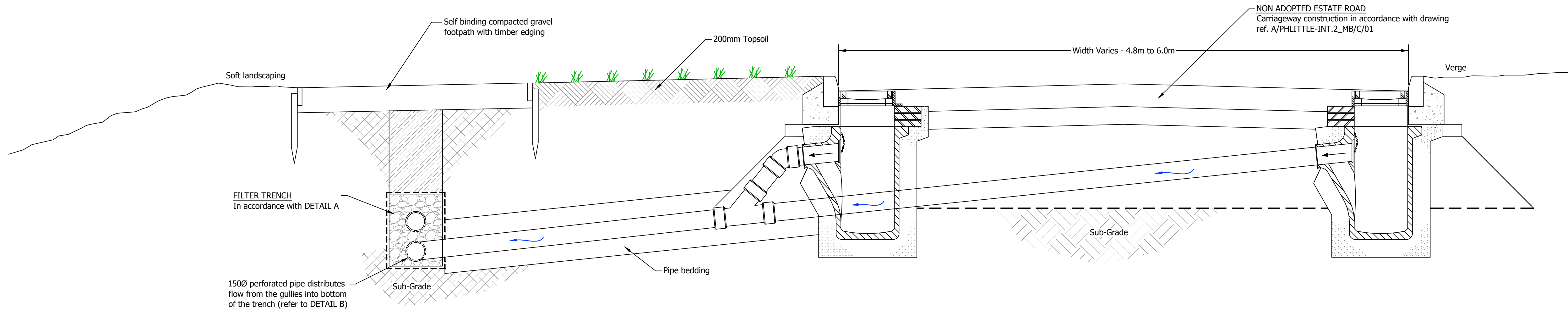
title

PERMEABLE SUB-BASE ROAD CONSTRUCTION DETAILS

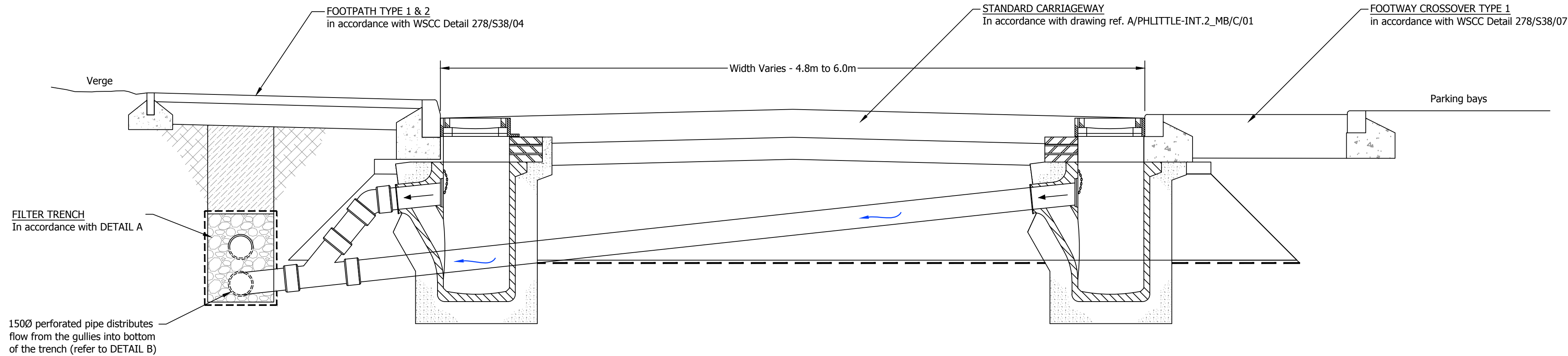
drawing number	rev.
A/PHLITTLE-INT.2_MB/F/02	C1

NOTES

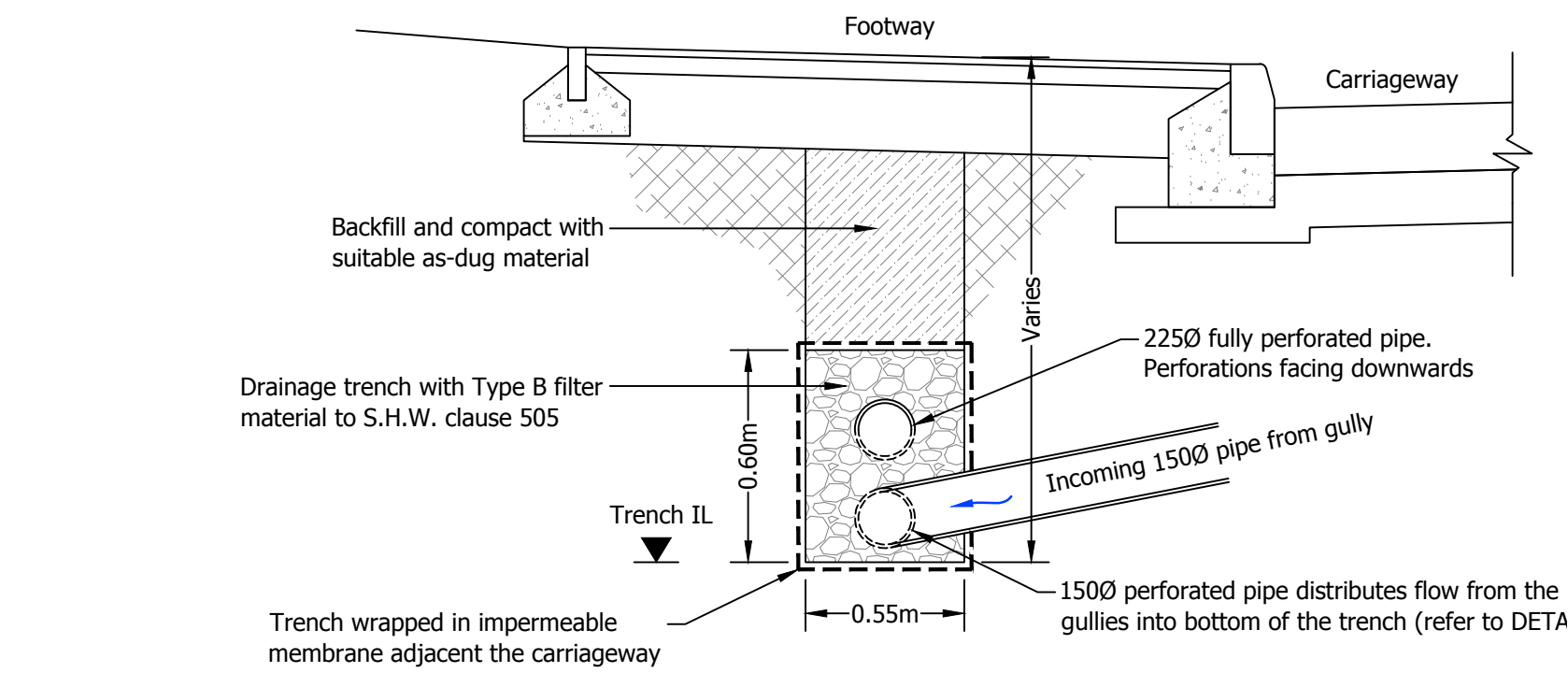
- This drawing is not to be scaled.
- To be read in conjunction with:
Drainage General Arrangement drawing reference
A/PHLITTLE-INT.1/112-1, -/2;
Construction Treatments drawing reference
A/PHLITTLE-INT.1/111-1, -/2;
Adopted & Non Adopted Roads Construction Details drawing
reference A/PHLITTLE-INT.2_MB/C/01.



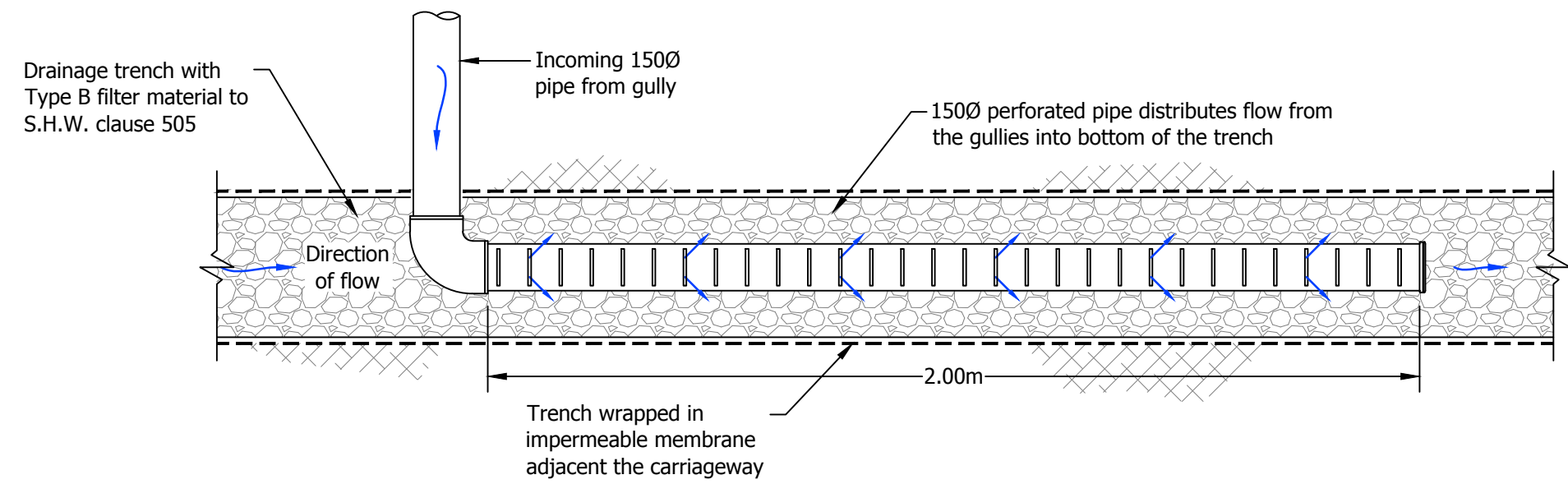
TYPICAL CROSS SECTION THROUGH FILTER TRENCH AND ESTATE ROAD



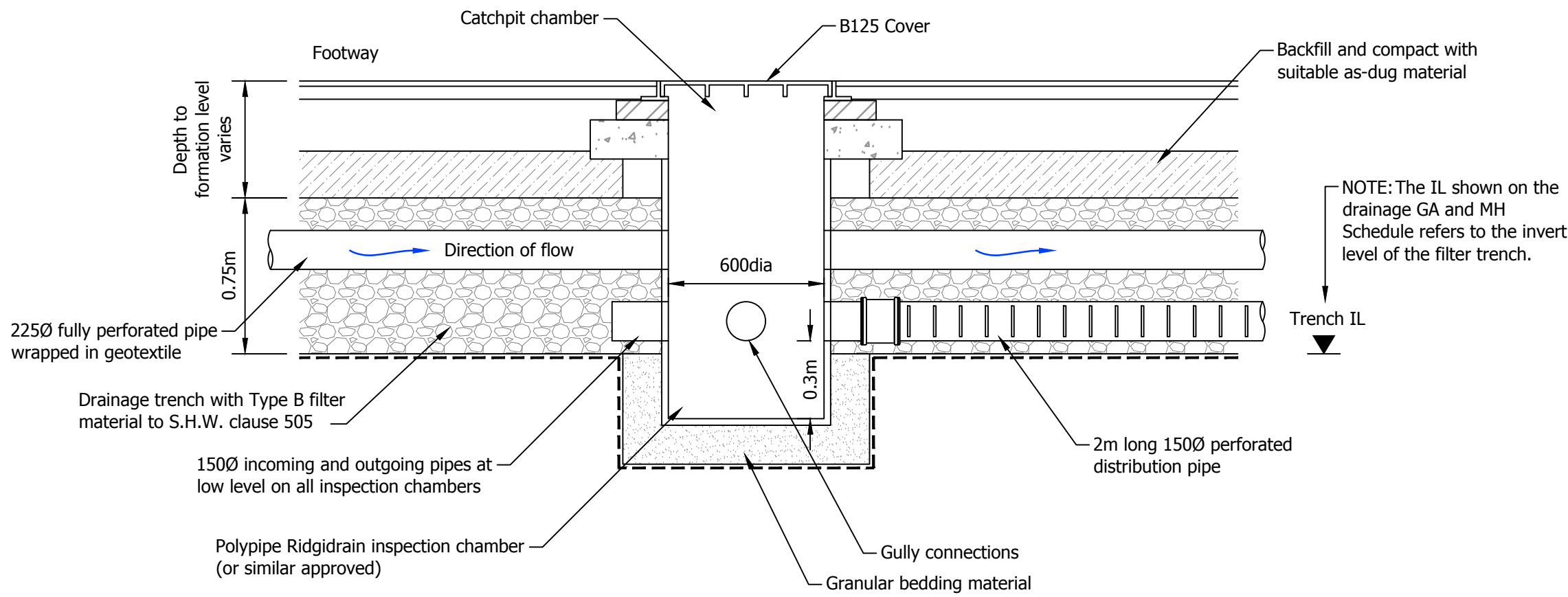
TYPICAL CROSS SECTION THROUGH FILTER TRENCH AND ROAD 6



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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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
date	FEBRUARY 2018	checked by	SF
cad file	MBC01.DWG		
title	FILTER TRENCH CONSTRUCTION DETAIL		
drawing number	A/PHLITTLE-INT.2_MB/F/03		rev.
		C1	

APPENDIX P: Drawings, Parcel B3 & B5: Civil & Drainage

