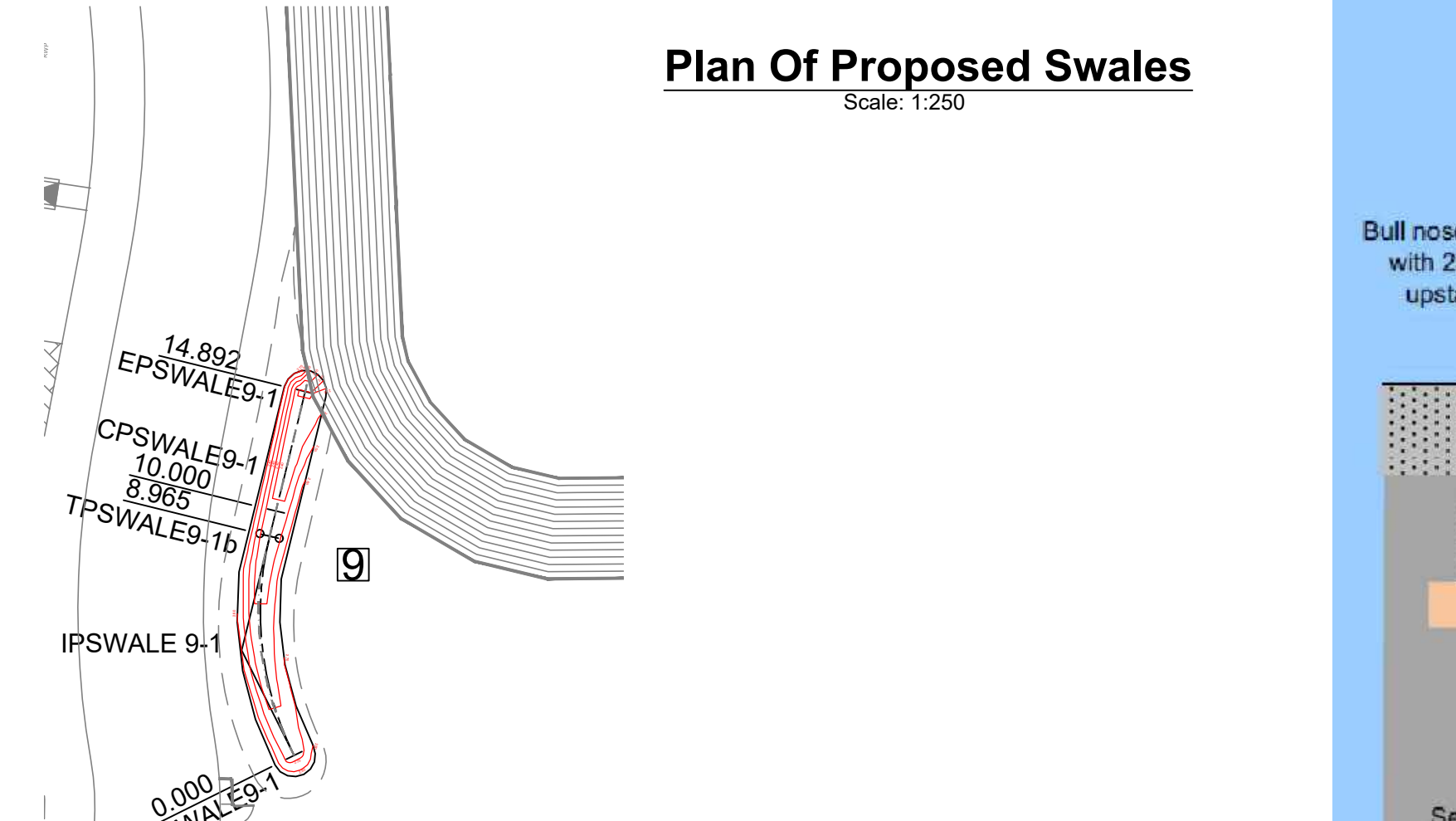
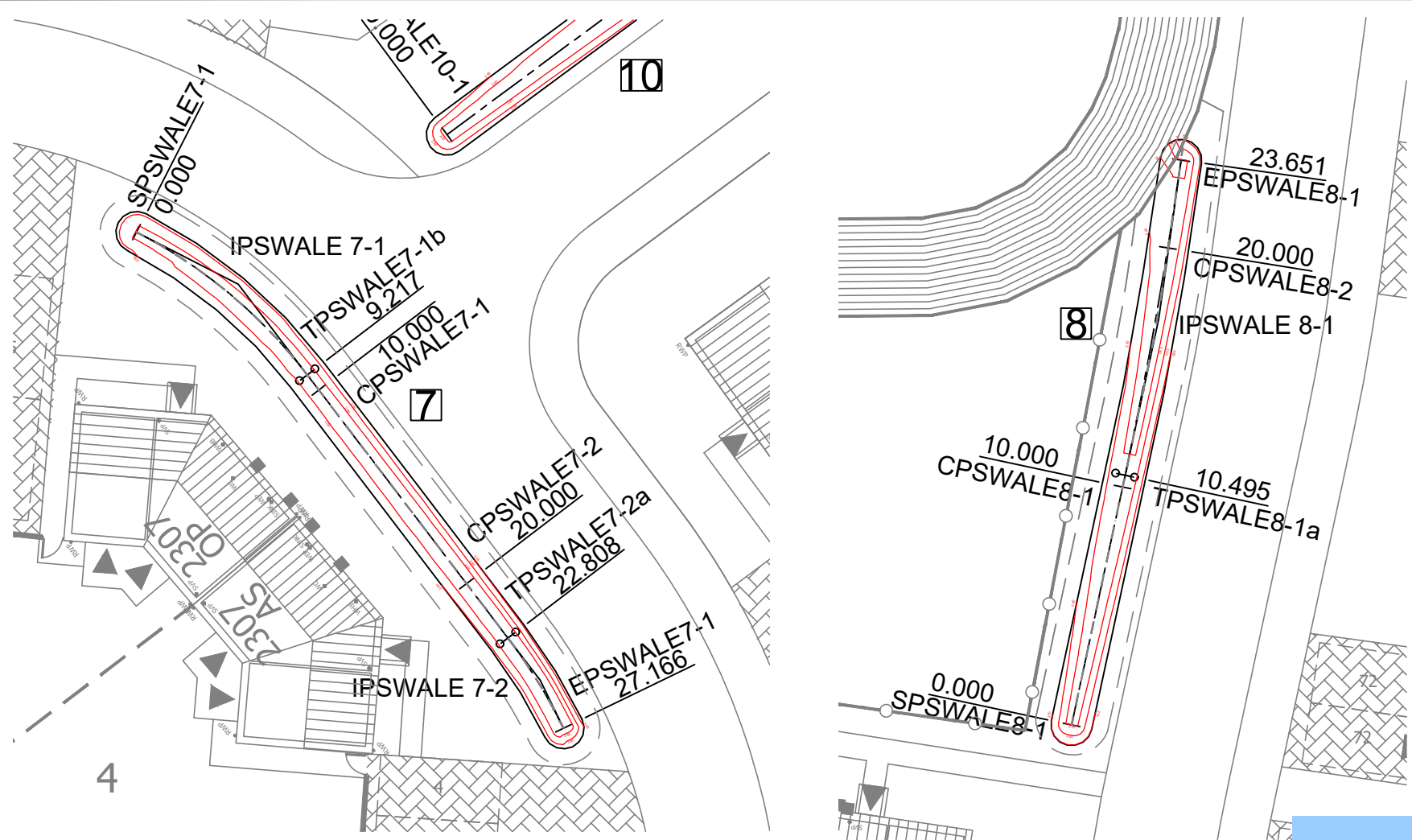
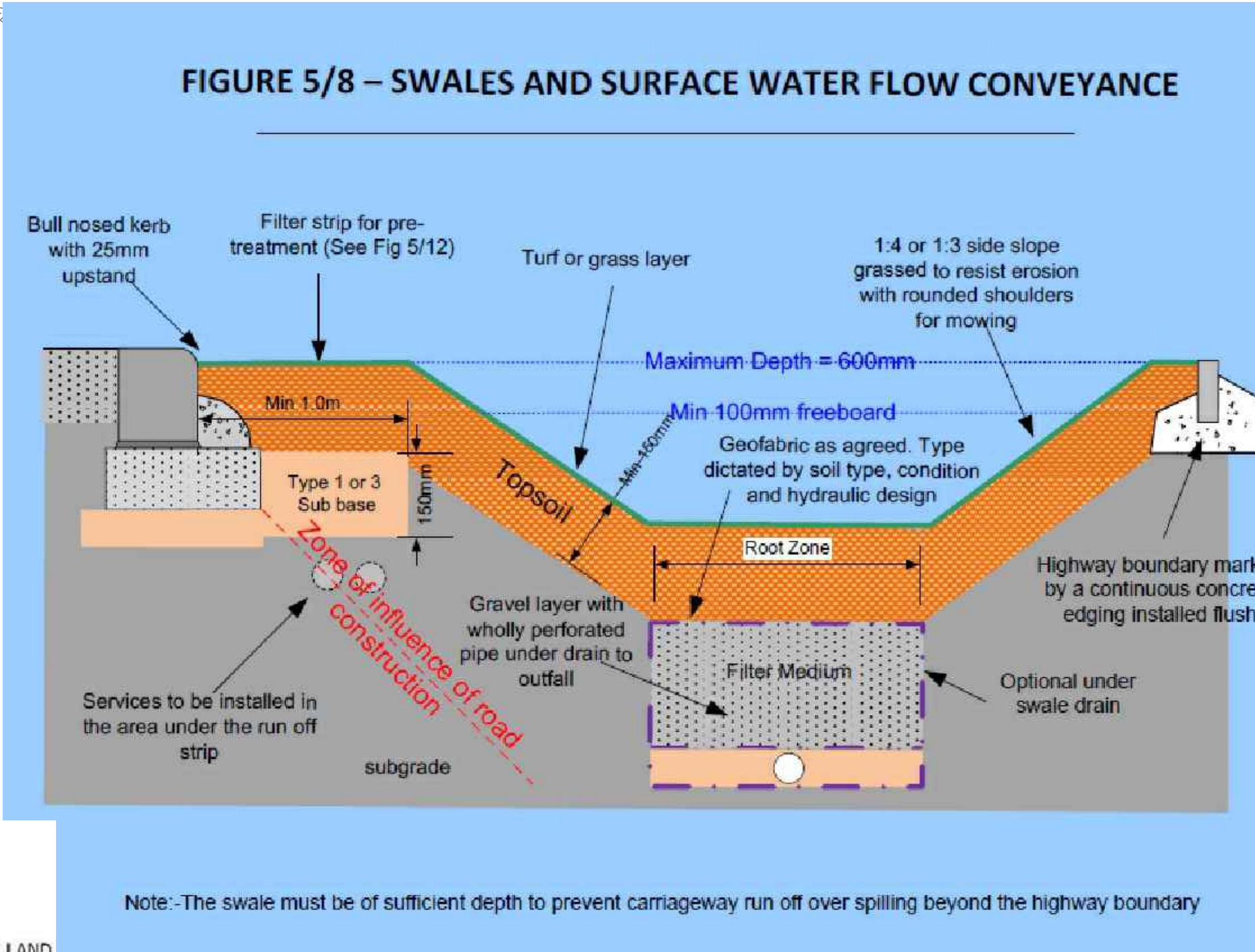




Plan Of Proposed Swales
Scale: 1:250

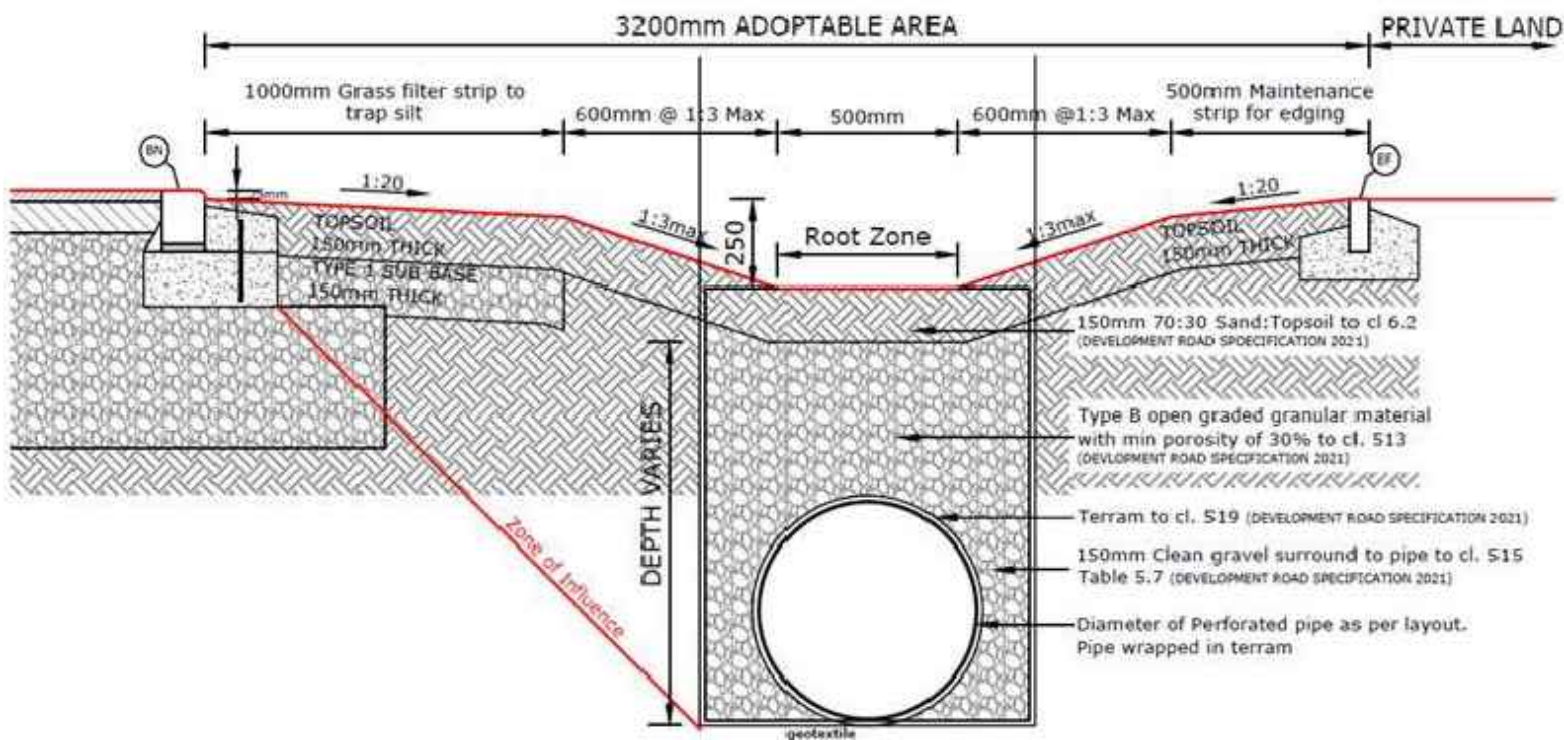
The details provided on this drawing are subject to comments by all the relevant approving authorities. Until such time as all comments have been received and incorporated onto the drawings, all the information provided and costings, are used at Allison Homes risk and no liability will be accepted by RSK. Scheme based on site plan L181/SITE/01.

- Notes:
- The specification in all respects shall be in accordance with the Lincolnshire County Council Development Road and Sustainable Drainage Specification and Construction
 - Within the catchment of traditional drainage design, the minimum longitudinal fall for highways, without channel block shall be 1 in 150 and with channel blocks 1 in 250
 - General deterioration of the existing highway/footway/verges created through construction of the new Section 38 Development will be reinstated to the Development Road and Sustainable Drainage Specification and Construction at the developers' own cost at the agreement of the inspecting Development Management Officer.
 - No private surface water shall discharge onto the adoptable highway
 - No private structural features shall overhang the adoptable highway
 - No retaining walls exceeding 1.37 meters shall be within 3.66 meters of the highway boundary.



Note:-The swale must be of sufficient depth to prevent carriageway run off over spilling beyond the highway boundary

TYPICAL HIGHWAY DETAIL SWALE



Typical Highway Detail Swale
NTS

Proposed Setting Out of Swales

ALIGNMENT SWALE 7									
LOCATION	CHAINAGE	EASTING	NORTHING	LEVEL	RADIUS	BEARING	ANGLE	ARC LENGTH	TANL
SPSWALE7-1	0.000	529656.233	318355.676	2.800	20.700	117.15431	25.51116	9.217	4.686
IPSWALE7-1		529660.403	318353.537						
TPSWALE7-1b	9.217	529663.245	318349.812	2.774		142.66547			
CPSWALE7-1	10.000	529663.720	318349.189	2.772					
IPSWALE7-2	20.000	529669.785	318341.236	2.745					
TPSWALE7-2a	22.808	529671.488	318339.005	2.737	21.700	142.66547	11.50620	4.358	2.186
IPSWALE7-2		529672.814	318337.266						
EPSWALE7-1	27.166	529673.766	318335.299	2.725		154.17166			

ALIGNMENT SWALE 8									
LOCATION	CHAINAGE	EASTING	NORTHING	LEVEL	RADIUS	BEARING	ANGLE	ARC LENGTH	TANL
SPSWALE8-1	0.000	529719.119	318426.540	2.505		12.09888			
IPSWALE8-1	10.000	529721.215	318436.318	2.418					
TPSWALE8-1a	10.495	529721.318	318436.801	2.414	185.752	12.09888	4.05822	13.157	6.581
IPSWALE8-1		529722.698	318443.236						
CPSWALE8-2	20.000	529723.072	318446.143	2.332					
EPSWALE8-1	23.651	529723.618	318449.753	2.300		8.04066			

ALIGNMENT SWALE 9									
LOCATION	CHAINAGE	EASTING	NORTHING	LEVEL	RADIUS	BEARING	ANGLE	ARC LENGTH	TANL
SPSWALE9-1	0.000	529679.622	318436.140	2.655	12.739	333.49746	40.32101	8.965	4.677
IPSWALE9-1		529677.535	318440.326						
TPSWALE9-1b	8.965	529678.652	318444.967	2.442		13.81847			
CPSWALE9-1	10.000	529678.899	318445.872	2.417					
EPSWALE9-1	14.892	529680.068	318450.623	2.301		13.81847			

SWALE 7

CHAINAGE	0.000	9.217	10.000	20.000	22.808	27.166
EXISTING GROUND LEVEL	2.421	2.518	2.540	2.540	2.565	2.565
ALIGNMENT LEVEL	2.800	2.772	2.745	2.725	2.725	2.725
VERTICAL ALIGNMENT	G= -0.276% 1: -362.3					
HORIZONTAL ALIGNMENT	R= 20.700					

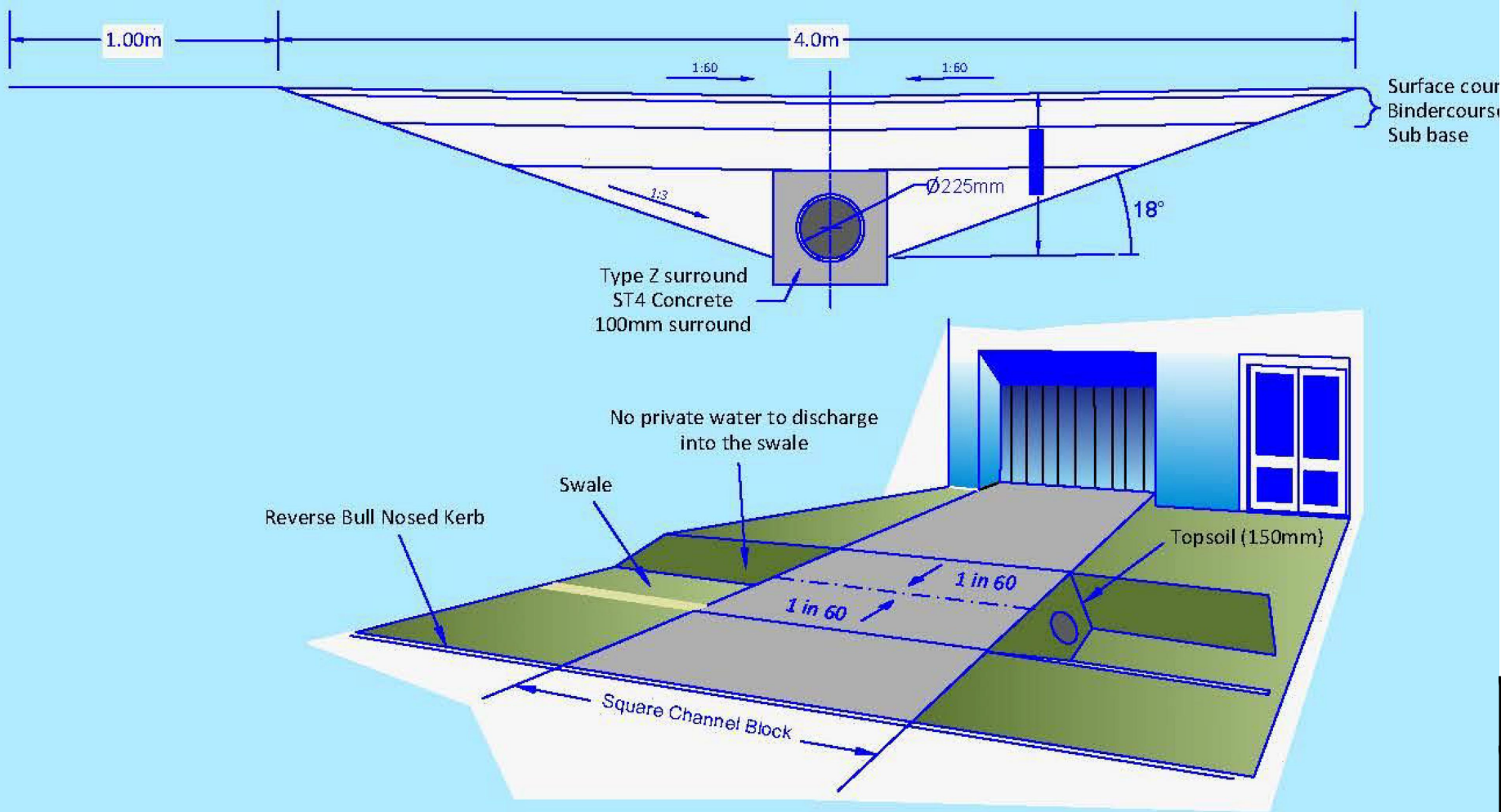
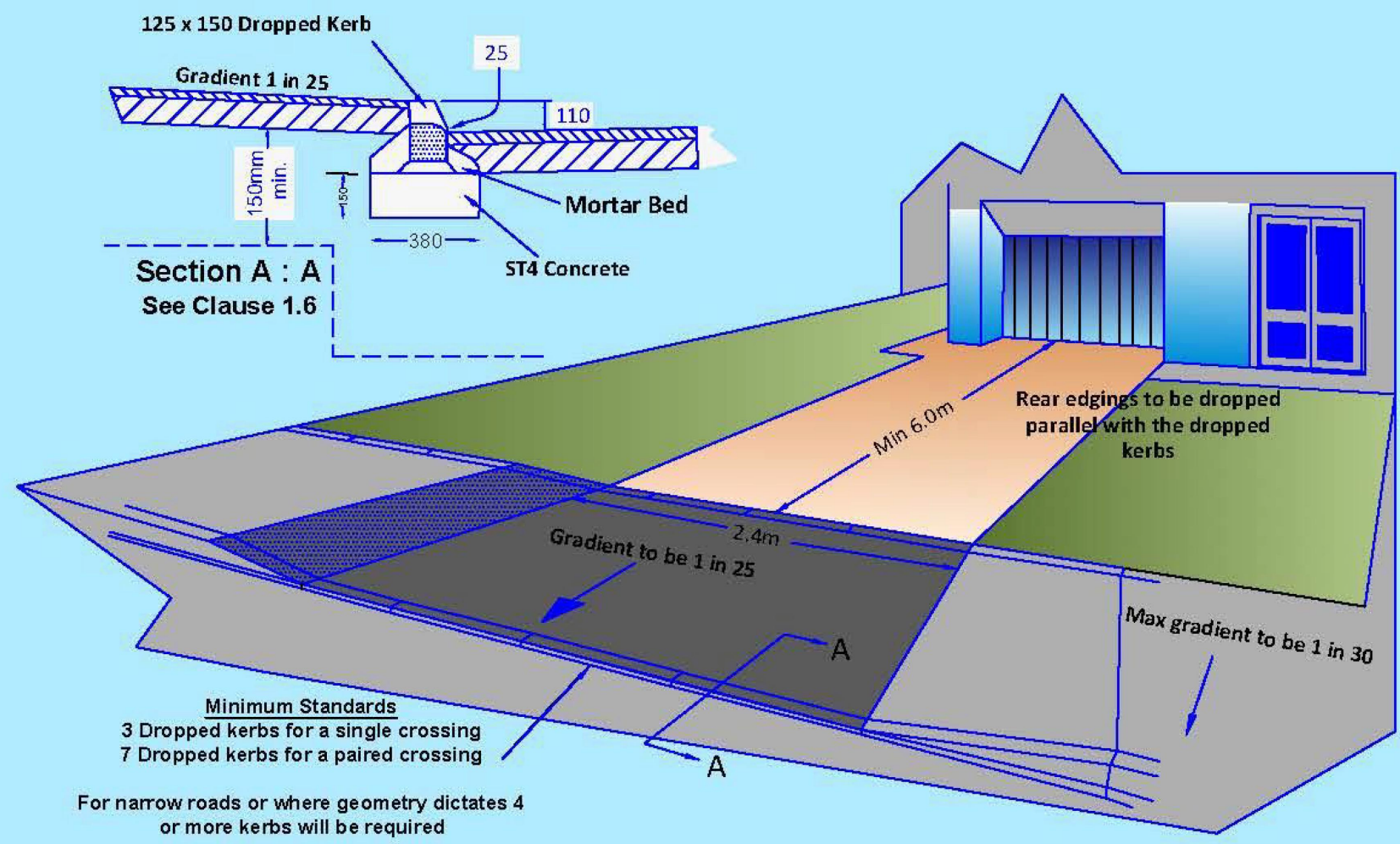
SWALE 8

CHAINAGE	0.000	10.000	10.495	20.000	23.651
EXISTING GROUND LEVEL	2.562	2.566	2.547	2.541	2.541
ALIGNMENT LEVEL	2.505	2.418	2.332	2.300	2.300
VERTICAL ALIGNMENT	G= -0.867% 1: -115.4				
HORIZONTAL ALIGNMENT	R= 185.752				

Longitudinal Sections

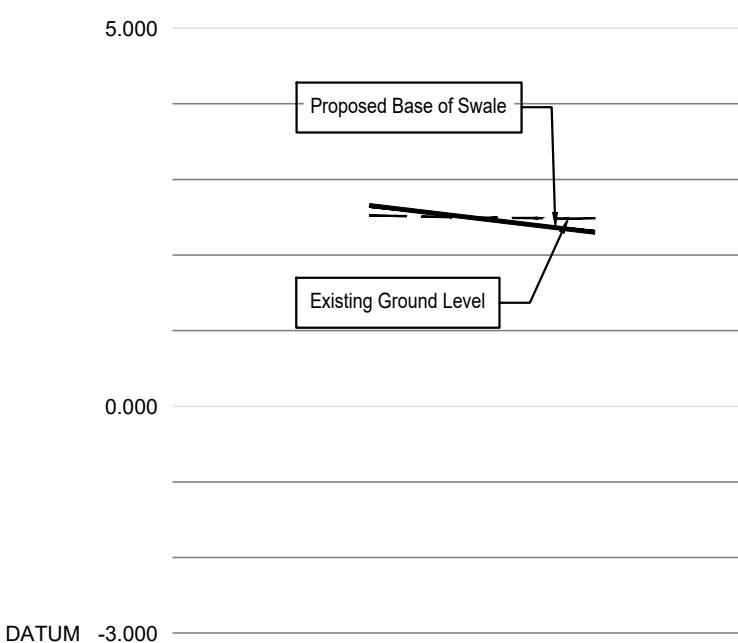
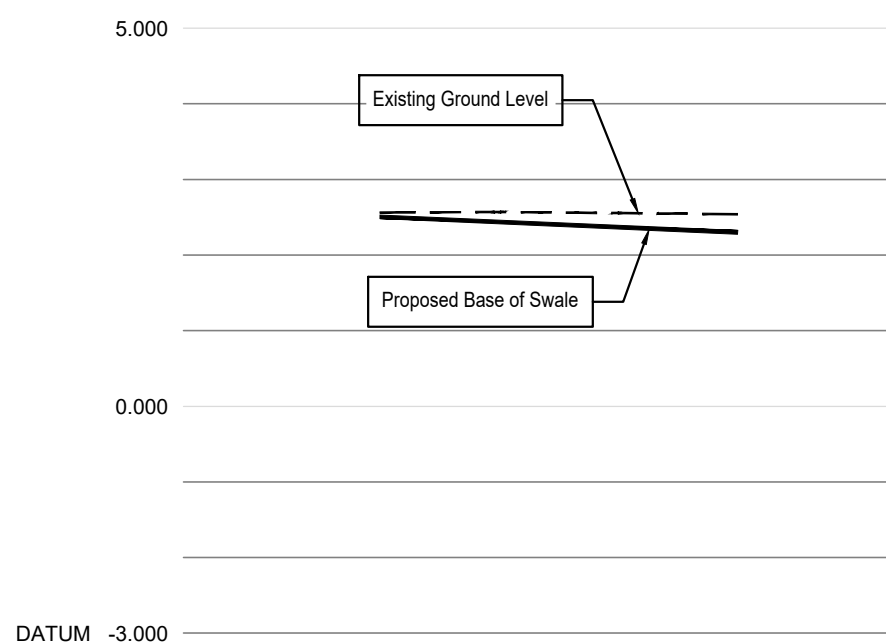
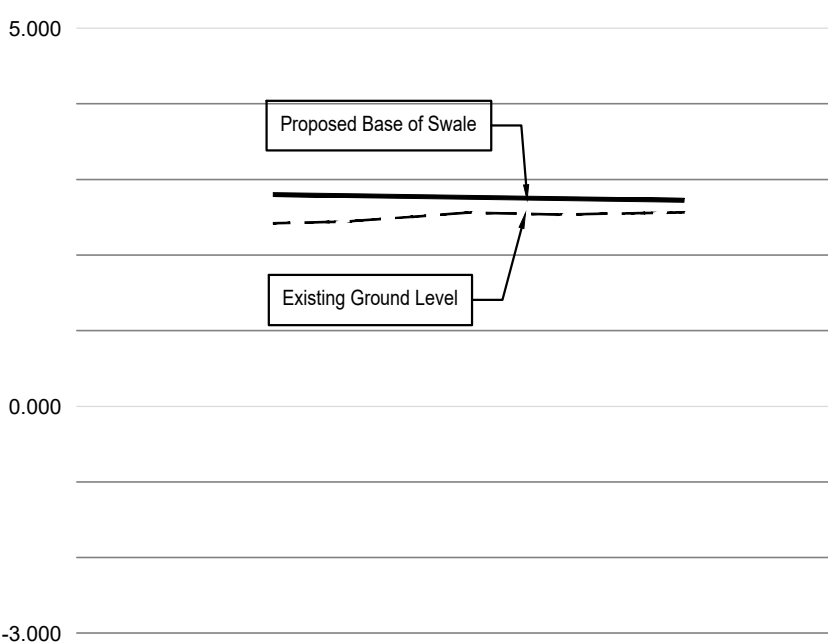
Scale: 1:500 Horizontal
1:100 Vertical

FIGURE 1/4 - DOMESTIC VEHICLE CROSSING (REF. CLAUSE 1.6.1)



DRIVEWAY CROSSING SWALE DRAINAGE

Swales and Surface Water Flow Conveyance NTS



SWALE 9

CHAINAGE	0.000	8.965	10.000	14.892
EXISTING GROUND LEVEL	2.526	2.489	2.486	2.486
ALIGNMENT LEVEL	2.655	2.417	2.301	2.301
VERTICAL ALIGNMENT	G= -2.377% 1: -42.1			
HORIZONTAL ALIGNMENT	R= 12.739			

CIVIL / STRUCTURAL DESIGN RISK MANAGEMENT

Abnormal or unusual residual risks associated with the design outcomes shown on this drawing are:-

RSK LDE LTD has followed its Design Risk Management process for Hazard Elimination and Risk reduction in developing the designs shown on this drawing.
Abnormal or unusual residual risks may be shown above where it is considered that such risk may not normally be expected by competent persons engaged on work of this nature or type.

Notes:

General

- All adoptable highway works shall be in accordance with Lincolnshire County Council Development Road Specification and Construction 2018 Edition.
- No works shall commence on site until all relevant technical approvals are in place and agreed in writing with the appropriate approval body, any works implemented prior to approval is at risk and is the responsibility of the Principal Contractor.
- This drawing must be read in conjunction with RSK Site Kerbing and Surfacing drawing. 40-12
- For detailed information respective to specific paving unit types, surface finishes, laying patterns, unit sizes and kerbing types, refer to Architect's drawing SL-01 Rev D

Materials

- All concrete block pavers shall conform to BS EN 1338:2003 and shall be laid in strict accordance with the requirements of BS 7533 Part 3.
- All concrete flag paving shall conform to BS EN1339:2003 and shall be laid in strict accordance with the requirements of BS 7533 Part 4.
- All natural stone paving products MUST be CE marked by the manufacturer to show compliance with the British Standards and shall be laid in strict accordance with the requirements of BS 7533 Part 4.
- In respect of cutting paving materials the Contractor's attention is drawn to the advice contained within the following document, "Cutting Precast Concrete Blocks, Flags and Kerbs - Efficient Design and Managing Risk" as published by Interpave.

Rev.	Date	Amendment	Drawn	Chkd.	Appd.
P5	25.07.23	Drawing updated to Client comments	MS		
P4	14.07.23	Updated to suit new drainage design	LGS	MAR	

RSK

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Client
Allison Homes

Project Title
**Moulton Chapel
Spalding**

Status
DETAILED DESIGN

Drawing Title
**Proposed Swale Details
Sheet 2 of 3**

Drawn JW	Date JUL 19	Checked MAR	Date JUL 19	Approved Date
Scale As Shown	Orig Size A1	Dimensions		
Project No. 881565		Drawing File		
Drawing No. 40-17-02				Rev. P5