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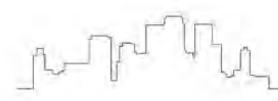
DARWIN GREEN ONE

South Cambridgeshire District Council

Planning Permission Ref S/0001/07/F

Condition 12 Submission re Levels

December 2013







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1.0 INTRODUCTION

- 1.1 This Technical Note has been prepared on behalf of Barratt Eastern Counties and the North West Cambridge Consortium of Landowners in support of the discharge of Condition 12 of Detailed Consent ref S/001/07/F issued by South Cambridgeshire District Council.
- 1.2 The consent is for the formation of a vehicular, pedestrian and cycleway access from the Histon Road to serve the Urban Extension of the City between Huntingdon Road and Histon Road, Cambridge; together with Drainage and Landscaping Works.
- 1.3 Condition 12 states "No development shall take place until full details of the proposed levels of the road and any associated structures compared to existing levels of the site, have been submitted to and approved in writing by the Local Planning Authority. The approved development shall be constructed in accordance with the approved level details unless otherwise agreed in writing with the Local Planning Authority".
- 1.4 This Note demonstrates that the above requirements have been fully met and as such the condition should be formally discharged.



2.0 PROPOSALS

- 2.1 This consent relates to the short section of road which links the Darwin Green development to the south to Histon Road where a new signalised junction is being formed.
- 2.2 The Darwin Green development to the south is located within Cambridge City Council. The boundary between South Cambridgeshire D.C. and Cambridge City Council is located at the pinch point of the redline given on the General Arrangement (WH drg.no.16483/2004H) given in **Appendix 1**.
- 2.3 The proposed levels for the new on site link road between the City boundary and Histon Road is indicated on the longitudinal sections (WH drg.no.16483/2011C and 2012C) given in **Appendix 2**.
- 2.4 Also indicated dotted on the plan is the existing ground level which is based upon a detailed topographic survey.
- **2.5** The proposed longitudinal and cross sections for the new signalised junction are given on SKM drg.nos.UN/12455/ECC/DG/1100A, 1101A, 1201A and 1202 given in **Appendix 3**
- 2.6 From the on site (WH) longitudinal sections which is drawn at a scale of 1:500H and 1:100V it can be seen that the proposed centreline lies within approximately 1m of the existing ground level along its entire length. It is raised in this area to provide minimal cover to the surface water sewers that cannot be lowered due to the constraints of the existing watercourse outfall which is linked to the A14 culverts.
- 2.7 The proposed alignment rises towards the Histon Road at a gradient of 1:100 which enables the road channels to drain satisfactorily under gravity.
- 2.8 The Histon Road junction follows the existing vertical alignment of the road avoiding unnecessary costs and to assist any temporary traffic management proposals.
- 2.9 It should however be noted that on the eastern side of the proposed junction gabions are proposed along the line of the existing highway ditch which are required to maximise the road and footpath/cycleway width for capacity and safety reasons.





3.0 SUMMARY AND CONCLUSIONS

- 3.1 The vertical alignment for the onsite planning approved road within South Cambridgeshire District Council is approximately 1m above the existing ground profile to provide minimal cover to the surface water sewers.
- 3.2 The vertical alignment for the junction improvements follows the existing alignment but in order to maximise the road section for safety and capacity objectives a gabion retaining structure is required along the eastern edge at the interface with the existing highway ditch.
- 3.3 As the proposals blend in with the existing surroundings this Condition should therefore be formally discharged.

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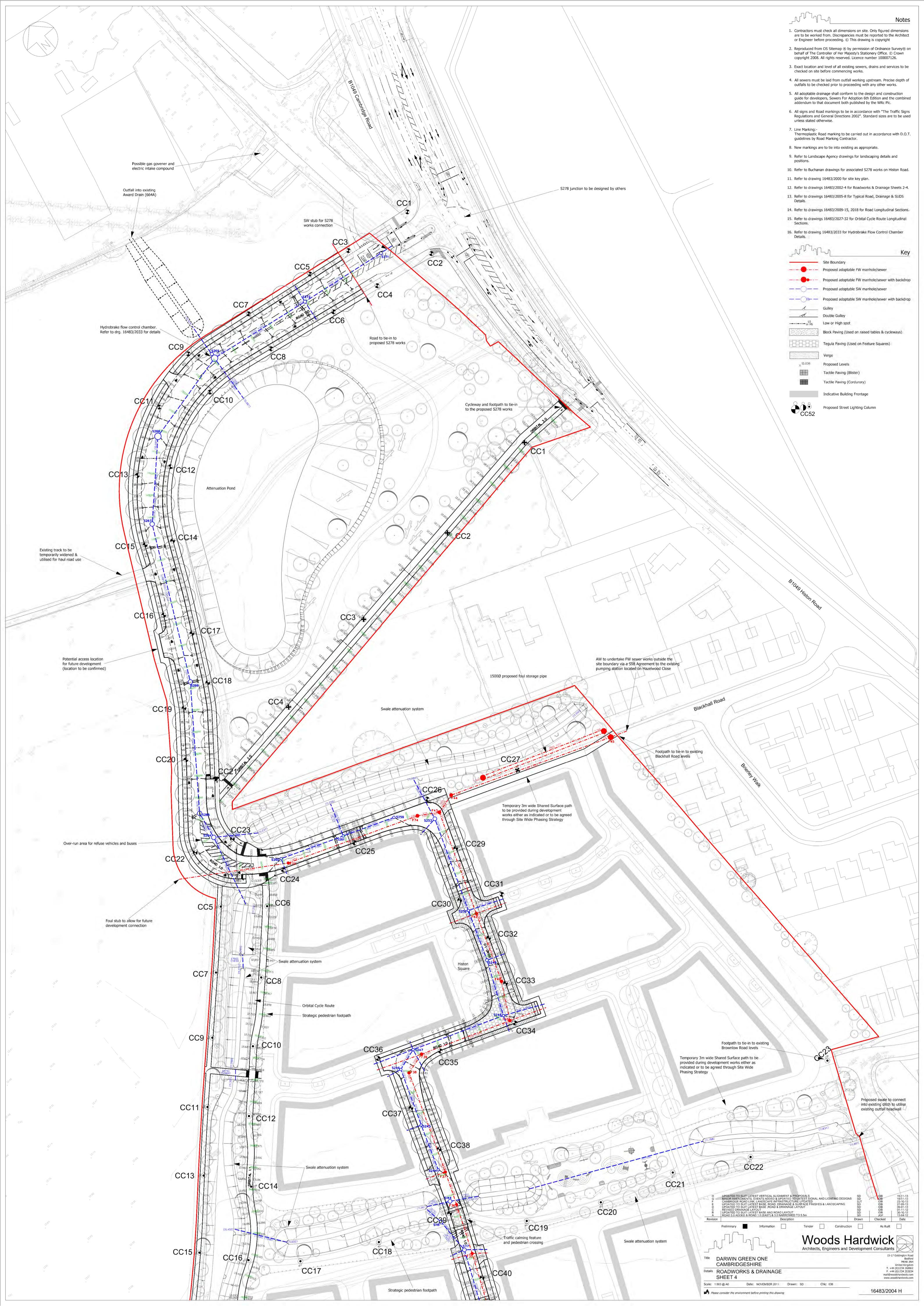




Appendix 1

General Arrangement (WH drg.no.16483/2004H)

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1.----



Appendix 2

Longitudinal Sections (WH drg.no.16483/ 2011C & 2012C)

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See Sheef 2 16483/2010	ł		e (Raised Table)			Intermediate	Orbit Cycleway Crossing		
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		Dia 525 IL 11.753		Dia 525 IL 11.615	Dia 750 IL 11.324	Dia 375 IL 11.580		/ - ~ E · · · · · · · · · · · · · · · · · ·	
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STORMWATER COVER LEVEL		11.936 1	11.650 1 11.650 1	11.390	11.324	11.886	11.792	11.215 11.197 11.197	
STORMWATER DETAILS	Pipe 51.003 Dia 450 Circular CONC 1 in 400	Pipe 50.003 Dia 525 Circular CONC 1 in 490	Pipe 50.004 Dia 525 Circular CONC 1 in 490	Pipe 50.005 Dia 750 Circular CDNC 1 in 675		Pipe 55.000 Pipe Dia 300 Dia Circular CLAY Circula 1 in 111 1 i	56.000 375 ar CONC in 137	Pipe 1.043 Dia 1200 Circular CONC 1 in 905	Pi I Circ
STORMWATER LENGTHS	43.864	26.279	24.181	44.400			9.084	12.658	
FOULWATER COVER LEVEL		13.645	13.270		13.196 13.208		13.035	091'E1	
FOULWATER INVERT		8.119 8.119 8.127 8.027	7.863		7.407 7.407 7.441 7.516		7 829	8.080	
FOULWATER DETAILS	Pipe 1.038 Dia 375 Circular CONC 1 in 200	Pipe 1.039 Dia 375 Circular CONC 1 in 200	Pipe 1.040 Dia 375 Circular CONC 1 in 200	Pipe 1.041 Dia 375 Circular CDNC 1 in 108	Pipe 7.002 Dia 375 Circular CONC 1 in 300	Pipe 7.001 Dia 300 Circular CLAY 1 in 200	Pipe 7.000 Dia 300 Circular C_AY 1 in 200		
				49.022					

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 All pipes up to and including 300mm diameter to be extra strength vitrified clay to BS.EN295 & BS.65.

 All pipes greater than 300mm diameter to be Class 120 concrete to BS.5911.

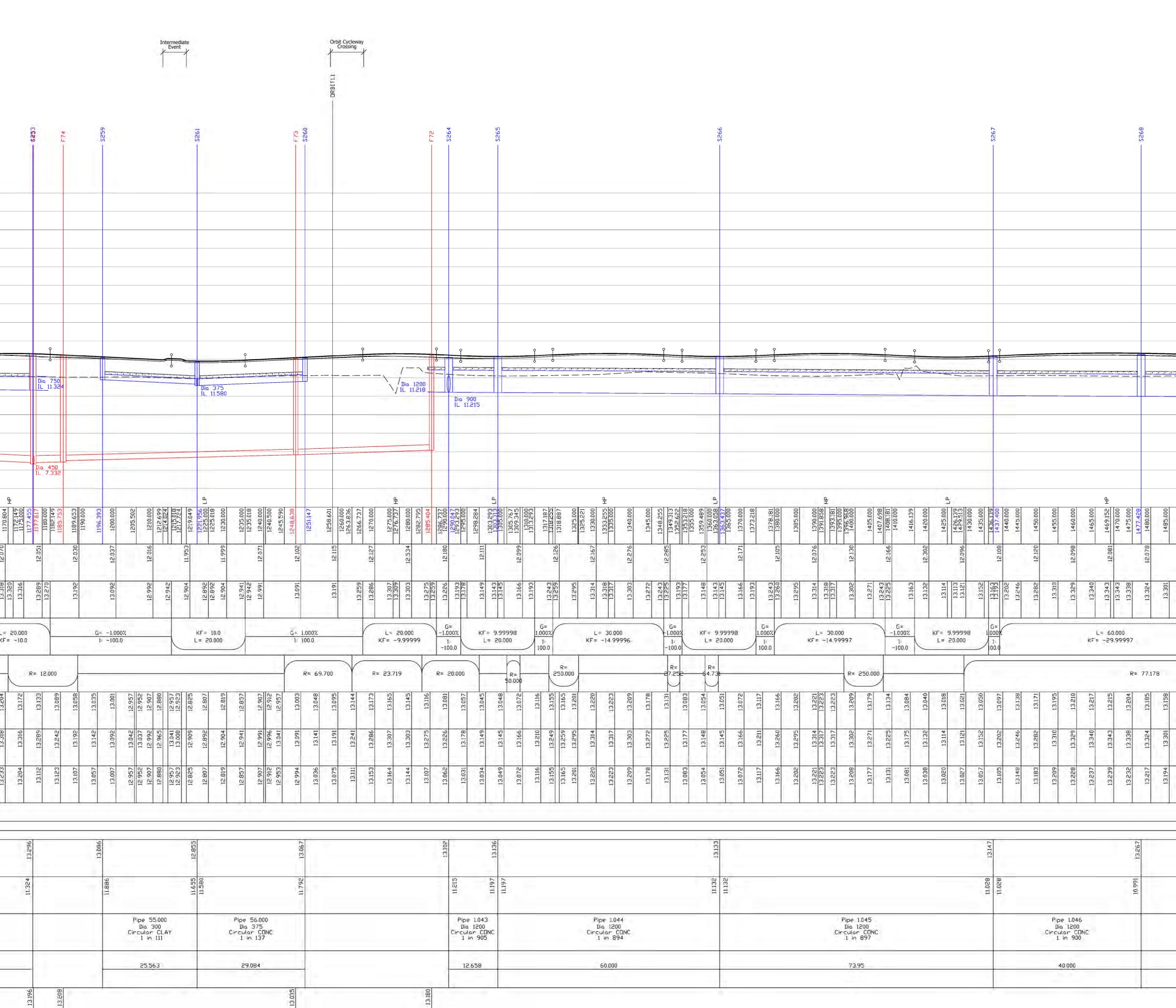
3. All pipes laid with class S bed or class S[S] Concrete Protection.

Class S[S] concrete protection on all pipes with less than 1200mm of cover under highways or 900mm of cover under open space.

 Precise depth of existing sewers to be confirmed before proceeding with any other works. Drainage MUST be laid from outfall end first.

 All adoptable drainage shall conform to the Design and Construction Guide for Developers, Sewers for Adoption 6th Edition published by the WRc plc and any Anglian Water Services Additions and Deletions.

6. All existing FW & SW manholes to be raised to new carriageway levels.



	S 2 6 9 2 X 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		S272	See Street 4 16483/2012
	Dia 1200 IL 10.991			
13.193 12.176 1495.000 13.193 12.176 1499.152 13.185 12.176 1499.152 13.185 12.231 1500.000 13.085 12.231 1510.000	12.273 12.2734 12.2734 12.2734 12.273 12.273 12.273 12.273 12.275 12.273 12.275 12.	12.785 12.251 1540.000 12.685 12.216 1550.000 12.672 12.216 1550.000 12.639 12.516 1555.000	Here is a constrained with the second	I2.659 I2.141 I580.000 II I2.672 I2.672 I5.141 N0001 I2.672 I5.145 I5.80.000 N0001 I2.672 I2.145 I5.90.000 12.672 I2.145 I5.90.000 12.759 I2.145 I5.90.000 12.800 I2.145 I5.90.000
13.249 13.249 13.185 13.135 13.135 13.085	12.872 13.035 12.859 12.872 12.985 12.811 12.822 12.935 12.767 12.710 12.885 12.718 12.716 12.835 12.668	12.785 12.735 12.685 12.639	12.472 12.610 12.443 12.455 12.597 12.431 12.455 12.501 12.435 12.455 12.601 12.435 12.472 12.622 12.455	12.505 12.659 12.493 12.551 12.709 12.542 12.597 12.759 12.592 12.635 12.800 12.633
	10.942 12.897 10.942		11.104 12.536 11.104	
Pipe 1.047 Dia 1200 Circular CONC 1 in 900 44.000		Pipe 58.001 Dia 525 Circular CDNC 1 in 300 48.469		Pipe 58.000 Dia 525 Circular CDNC 1 in 125 41.118

	1. All pipes up to and including 300mm diameter to strength vitrified clay to BS.EN295 & BS.65.
2011	 All pipes greater than 300mm diameter to be Clas concrete to BS.5911.
S272 See Sheet 3 16483/2011	3. All pipes laid with class S bed or class S[S] Concre Protection.
	Class S[S] concrete protection on all pi less than 1200mm of cover under high 900mm of cover under open space.
	 Precise depth of existing sewers to be confirmed proceeding with any other works. Drainage MUST from outfall end first.
	 All adoptable drainage shall conform to the Desig Construction Guide for Developers, Sewers for Ad 6th Edition published by the WRc plc and any An Water Services Additions and Deletions.
	 All existing FW & SW manholes to be raised to ne carriageway levels.
PDAD 10	
ROAD 1.0	
ROAD 1.0	
ROAD 1.0	

VERTICAL ALIGNMENT			100.0	4
HORIZONTAL ALIGNMENT -				
LEFT HAND CHANNEL	12.493	12.542	12.592	12,633
CENTRE LINE	12.659	12.709	12.759	12,800
RIGHT HAND CHANNEL	12.505	12.551	12.597	12,635
CRDSSFALLS				
STORMWATER COVER LEVEL				
STORMWATER INVERT				
STORMWATER DETAILS	Circ	pe 58. Dia 52 cular 1 in 1i	5 CONC	
STORMWATER LENGTHS -		41.118		
FOULWATER COVER LEVEL				
FOULWATER INVERT				
FOULWATER DETAILS				

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Title	DARWIN GREEN ONE CAMBRIDGESHIRE			17 Goldington Roa Bedfor MK40 3N United Kingdor
Details	ROAD 1.0 LONG-SECTION SHEET 4		F. + mail@v	44 (0)1234 26886 44 (0)1234 35303 voodshardwick.com voodshardwick.com
Scale: 1	1:500 H & 1:100 V @ A2 Date: DECEMBER 2011 Drawn: SD Chk: JGF	1.1.1		
			16483/20	

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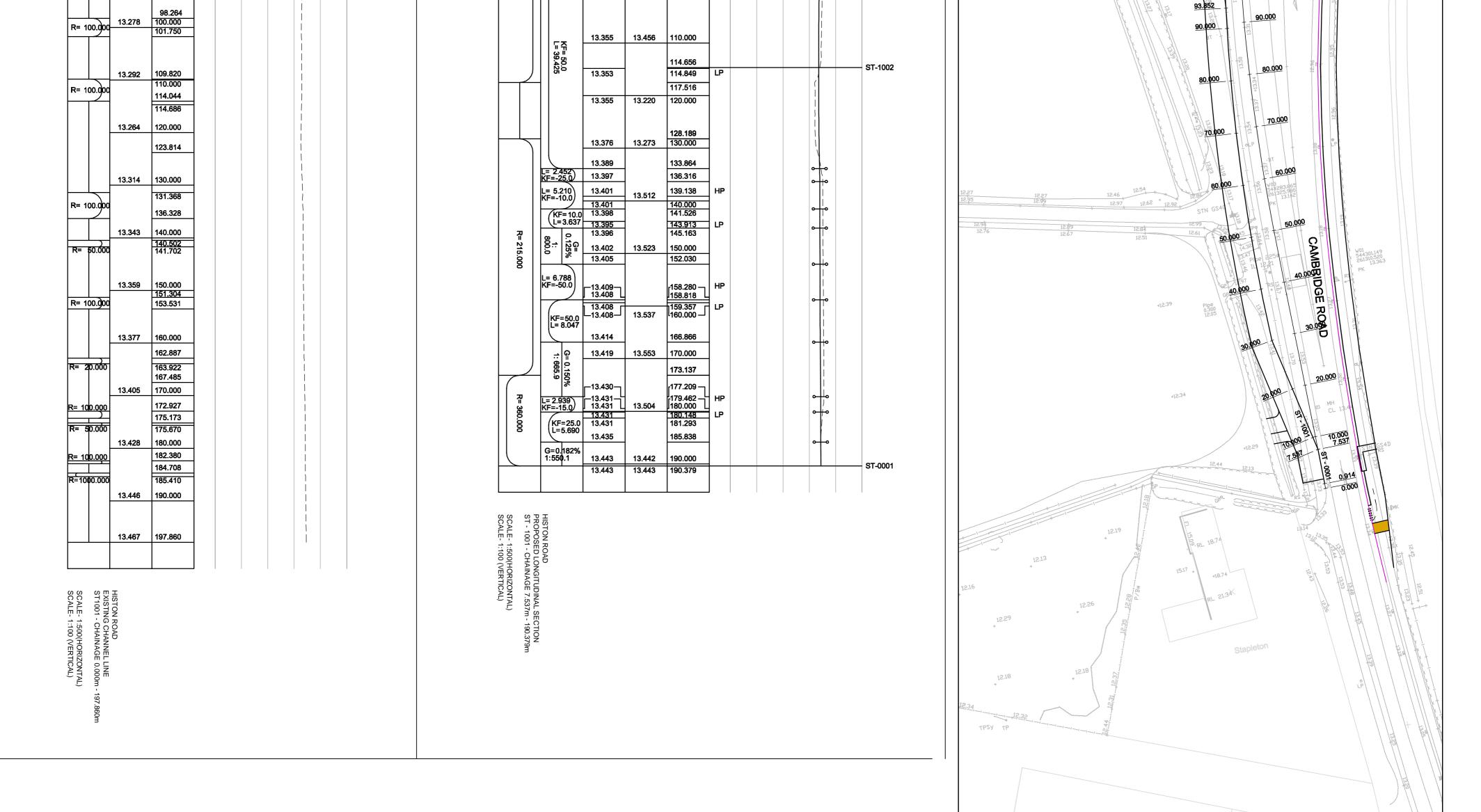
Appendix 3

Longitudinal and Cross Sections

(SKM drg.nos.UN12455/ECC/DG/1100A, 1101A, 1201A and 1202)

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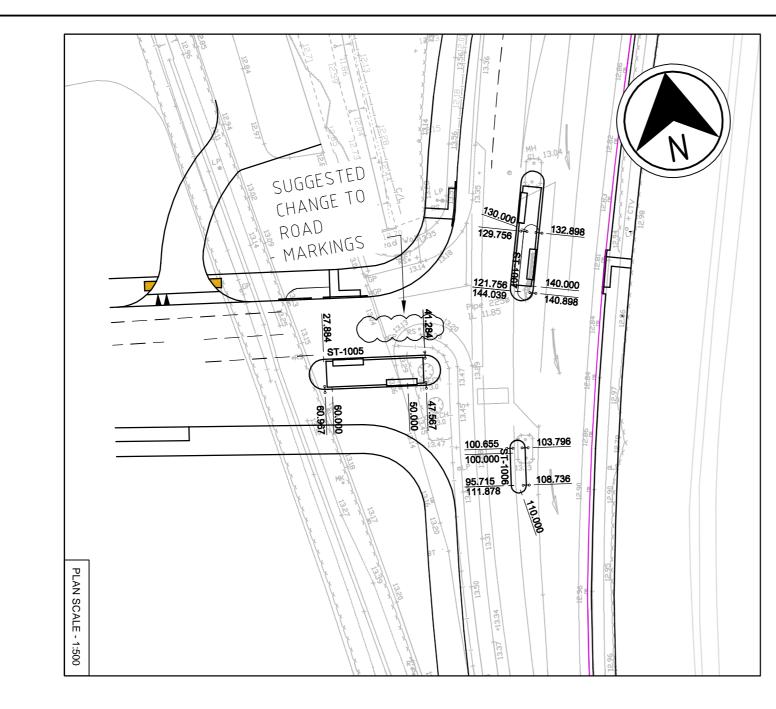
This drawing has been produced by SKM Colin Buchanan. London. No responsibility will be accepted for the use of this drawing in any other project. NOTE: DO NOT SCALE OFF THIS DRAWING.	HORIZONTAL ALIGNMENT	EXISTING GROUND LEVEL	CHAINAGE	CT 000	HORIZONTAL ALIGNMENT	VERTICAL ALIGNMENT	ALIGNMENT LEVEL	EXISTING GROUND LEVEL	CHAINAGE	15.000 10.000	HH 1262 a HH 1262 a HI 1264 - 1250 - 1251 - 1411 - 151 - 1
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	C R=1000.000	24	0.000 0.204 0.323		R=1.00	L= 15.990 KF= -15.0	13.627 13.626	13.478	28.640 29.950 30.000 -30.123		C/1 1265 2 2 5TN 6548 2 2 3 FT 6548 4 12.00 1 2 00 1 2 0 1 2
	R= 500.000	37	2.422 2.787 0.000			G=-0.666% H	13.584 13.540	13.475	38.630 40.000 46.680		
	R= 100.000	<u>48</u> 13.406 50	3.453 1.000 1.620			KF= 15.0	13.509	-	50.000 53.670 60.000		SUGGESTED
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		13.350 80 87	0.000 7.284			G= -0.408% 1: -245.0	13.412 13.394		90.000 94.439		SITE ACCESS
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70.000 60.000 B 1283.96 1325.98 60.000 50.000 CAMBBIDGE ROAD 50.000 W01 544301.149 261310.520 13.363 20.000

80.000

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			VERTICAL ALIGNMENT	ALIGNMENT LEVEL	EXISTING GROUND LEVEL	CHAINAGE	ST-1005		
SCA	MAIN PROF ST - 1			13.754	13.754	27.884			
ņ	00°SO			13.714	13.713	30.000			
1-500/HC	CESS RO ED LONO		L=6.610 KF=-9.0	13.613		34.494			_
SCALE- 1-500/HORIZONTAL)	MAIN ACCESS ROAD - REFUGE ISLAND PROPOSED LONGITUDINAL SECTION ST - 1005 - CHAINAGE 27.884m - 67.250m		G=-2.500% 1:-40.0	13.475	13.475	40.000			
		ת		12 / 22		41.284		•	+
	Э́ЕС	R=2.000	(KF=1.0 L=4.000	13.422 13.391 13.402		42.111 44.611	LP		
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	250r		G=1.500	13.461	13.460	50.000			
	5						1		

13.461 13.500

1**3.637**

13.737 13.763 13.754

13.636

13.754

G=1.500% 1:66.7

KF=10.0 L= 11.418

L=3.172 KF=-0.750

52.659

60.000

60.967 64.078 66.059 67.250 67.250

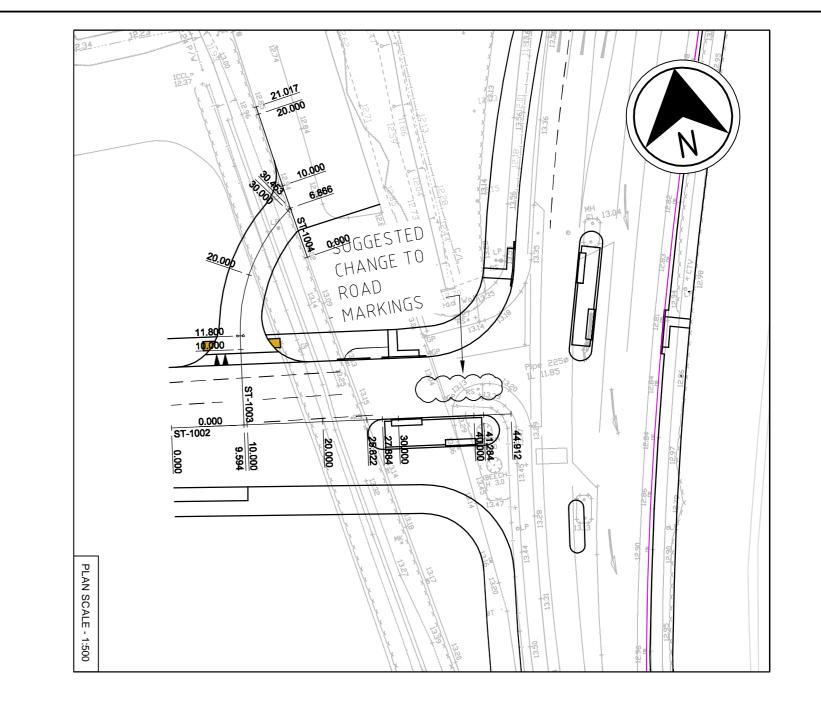
HP

	15.000

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		VERTICAL ALIGNMENT	ALIGNMENT LEVEL	EXISTING GROUND LEVEL	CHAINAGE	ST-1002		15.000
PA			13.866	12.189	0.000			
MAIN ACCESS ROAD PROPOSED LONGITUDINAL SEC			13.915	12 201	9.594	HP		— ST-1003
AD ITUDINAL SEC		L= 34.91; KF= -10.1	13.915	12.291	10.000			



HISTON RO, CONSTRUC ST - 1007 - C SCALE- 1:50 SCALE- 1:10	ATAL ALIGNMENT	3 GROUND LEVEL	
HISTON ROAD - SPLITTER ISLAND (NORTF CONSTRUCTED AT EXISTING CARRIAGEV ST - 1007 - CHAINAGE 121.756m - 144.039n SCALE- 1:500(HORIZONTAL) SCALE- 1:100 (VERTICAL)		13.164	
(ISLAND (NO ING CARRIAC .756m - 144.0 .L)	R=1.000)	13.157	
39n EV		13.155 13.104	1

HORIZONTAL ALIGNMENT	EXISTING GROUND LEVEL	CHAINAGE	ST-1007
T	킌		.000
	13.164	121.756	
	13.157	129.756	

KISTING GROUND LEVEL	HAINAGE	БАТИМ 10.000 ST-1007	
13.164	121.756		
	400 750		

.GE	DATUM 10.000	
21.756		

| | | | |

15.000

ST-1006 CHAINAGE HORIZONTAL ALIGNMENT EXISTING GROUND LEVEL HISTON ROAD - SPLITTER ISLAND (SOUTH) CONSTRUCTED AT EXISTING CARRIAGEWAY LEVEL ST - 1006 - CHAINAGE 95.715m - 111.878m 13.170 95.715
 13.172
 100.000

 13.171
 100.655

 13.119
 103.796
 R=1.000
 13.117
 108.736

 13.136
 110.000

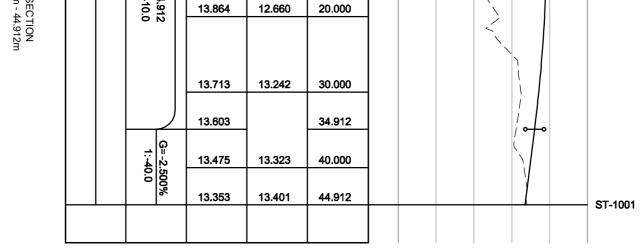
 13.170
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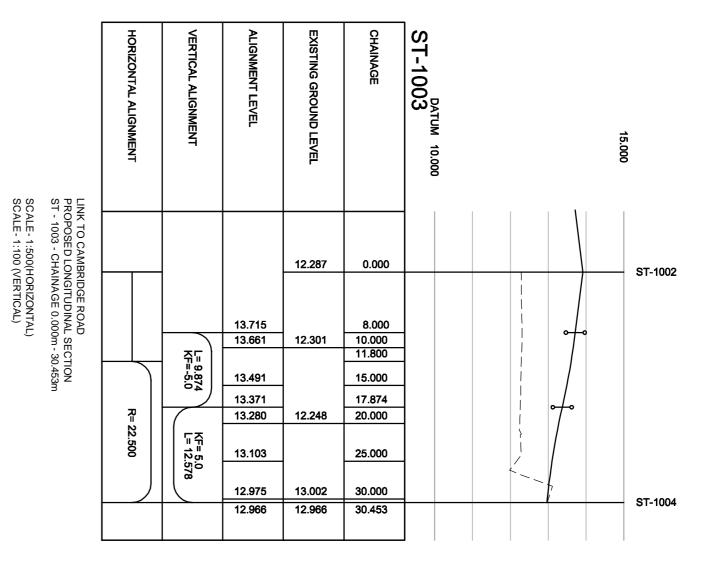
SCALE- 1:500(HORIZONTAL) SCALE- 1:100 (VERTICAL)

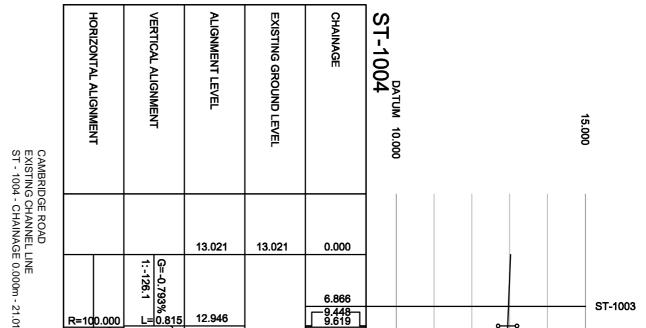
SCALE- 1:500(HORIZONTAL) SCALE- 1:100 (VERTICAL)

R=2.000

	13,000	15 000







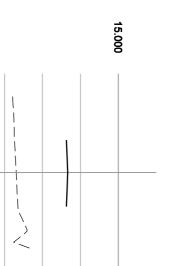
AGEWAY LEVEL 44.039m	13.157 129.735 R=1.000 13.155 130.000 13.104 132.898 13.109 140.000 R=1.000 13.109 140.898 13.164 144.039	- 21.017m	R=100.000 L=0.815 12.946 9.448 9.619 ST-1003 \overrightarrow{H} \overrightarrow{O} 12.941 10.000 10.263 10.805 10.805 \overrightarrow{H} \overrightarrow{O} 12.858 12.858 20.000 12.849 21.017
CLIENT BARRATT HOMES PROJECT MISTON ROAD, CAMBRIDGE DRAWIN CHECK REVIEWED APPROVED DRAWING CHECK REVIEWED APPROVED JORAWING CHECK REVIEWED APPROVED JORAWING CHECK SRIE DESIGN REVIEW ATE 27.03.13 ATE ATE ATE Z7.03.13 DATE Z7.03.13 TITLE DRAWING NG SCALE DRAWING NG SCALE DRAWING NG REV NOTE CC-DG-1101 REV	State State St	KEY: EXISTING GROUND LEVEL PROPOSED ALIGNMENT LEVEL PROPOSED ALIGNMENT LEVEL Image: Structure Image: Structure<	 All dimensions are in metres unless otherwise stated. Do not scale from the drawing.

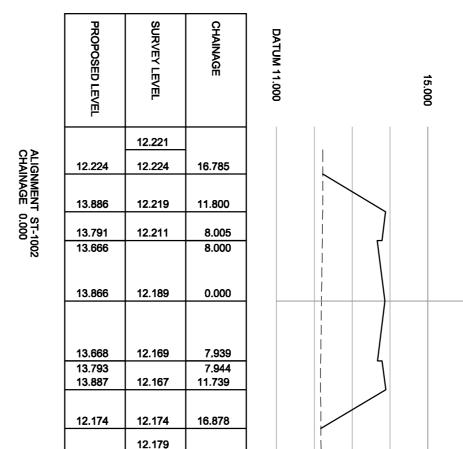
SCALE- 1:500(HORIZONTAL) SCALE- 1:100 (VERTICAL)



ALIGNMENT ST-1003 CHAINAGE 10.000

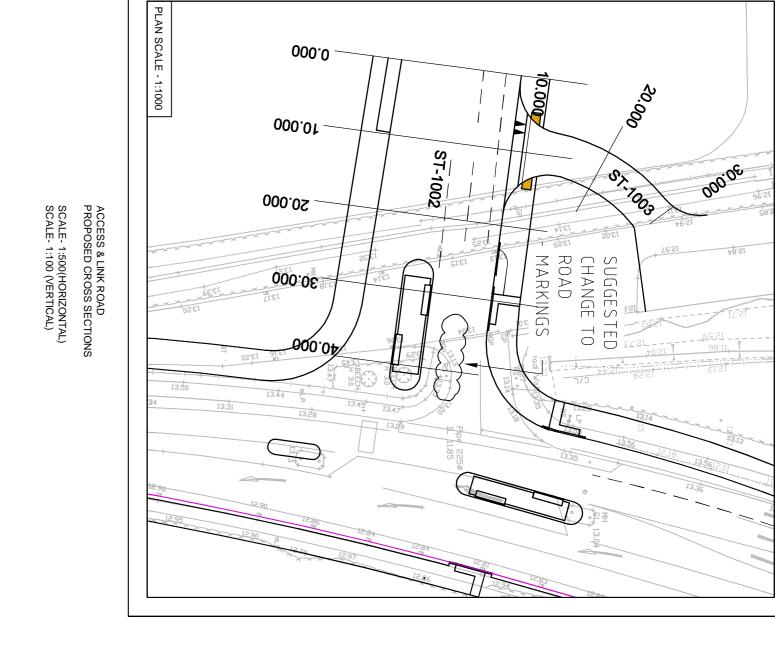
PROPOSED LEVEL	SURVEY LEVEL	CHAINAGE	DATUM 11.000	
	12.212			
13.631	12.259	4.201		
13.661	12.301	0.000		1
13.631	12.346	4.456		
	12.651			



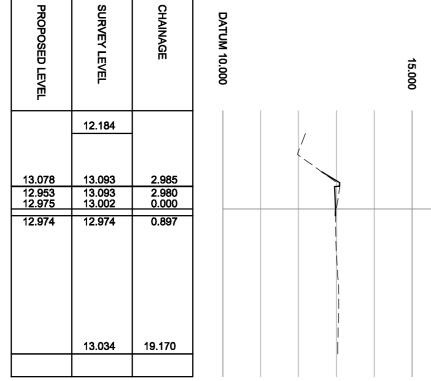


ALIGNMENT ST-1002 CHAINAGE 10.000

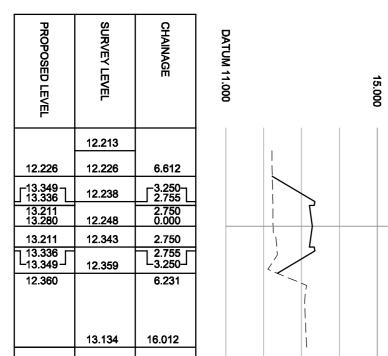
PROPOSED LEVEL	SURVEY LEVEL	CHAINAGE	DATUM 11.000		15.000
	12.242				
13.448	12.274	16.049		İ	
13.715	12.312	8.000			ST-1002
13.915	12.291	0.000			
13.710 13.835 13.929	12.273 12.267	8.225 8.230 12.025			
12.263	12.263	17.025			

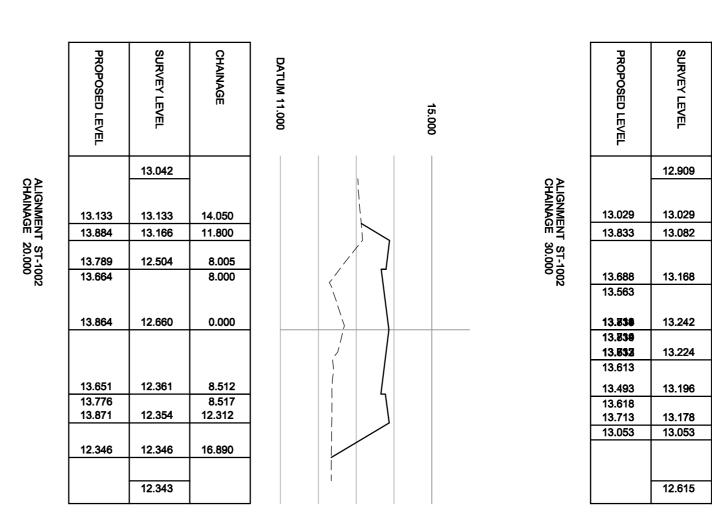


ALIGNMENT ST-1003 CHAINAGE 30.000



ALIGNMENT ST-1003 CHAINAGE 20.000





SURVEY LEVEL

13.252

13.120

13.323

13.355

13.168

13.225

PROPOSED LEVEL

13.568 13.443

13.475 13.600 13.568 13.443

13.416 13.541

ALIGNMENT ST-1002 CHAINAGE 40.000

CHAINAGE

7.634

7.629

0.000 0.005 3.995

4.000

11.536

11.541

DATUM 12.000

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15.000

KEY: EXISTING SURVEY LEVEL PROPOSED ALIGNMENT LEVEL 1

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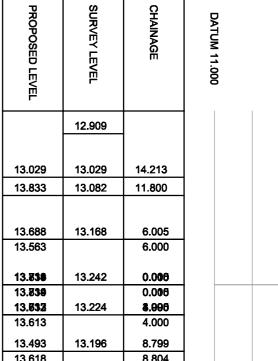




6.005	
6.000	
0.006	
0.006	
8.000	
4.000	
8.799	
8.804	
12.599	
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		15.000

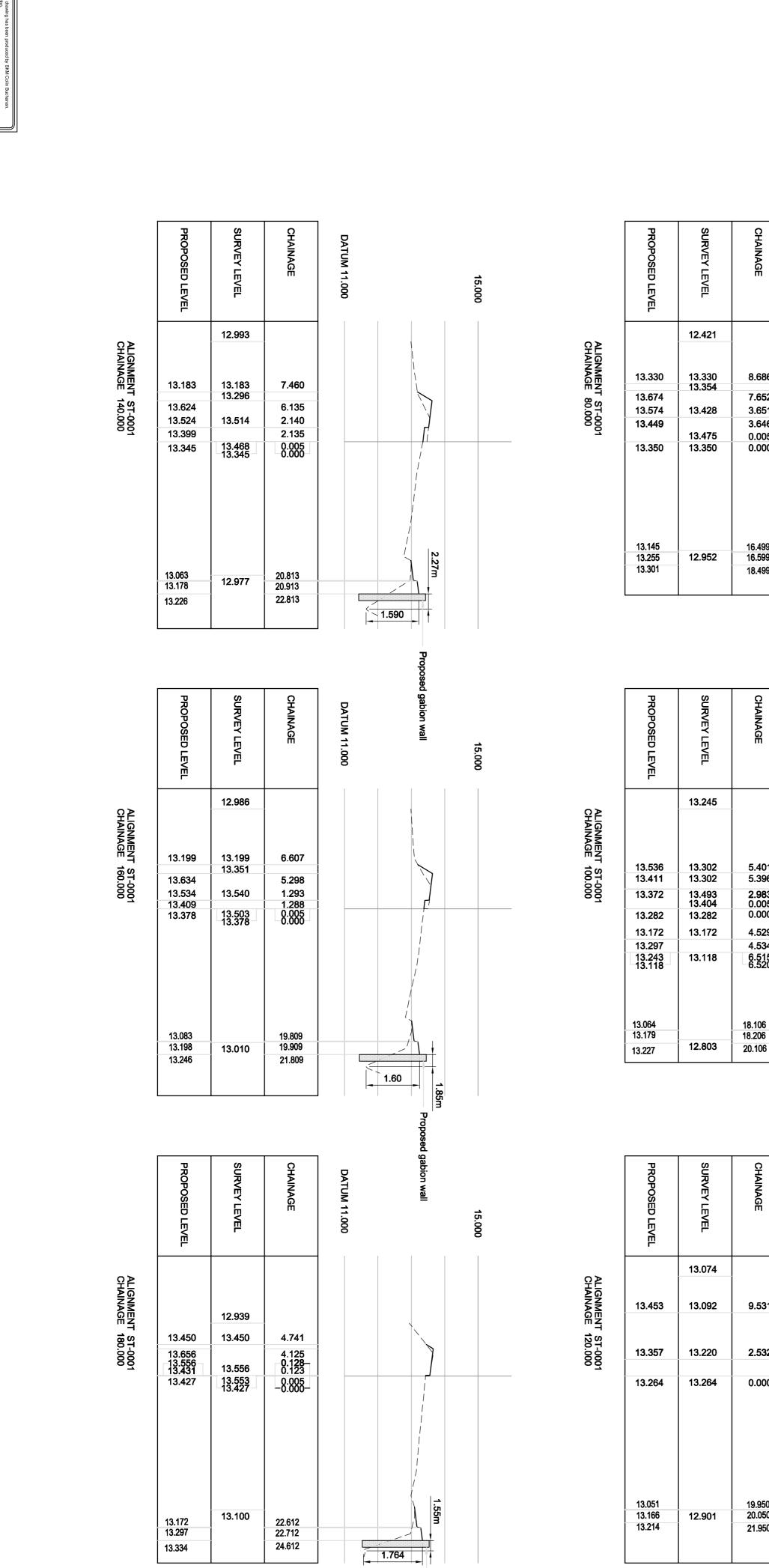
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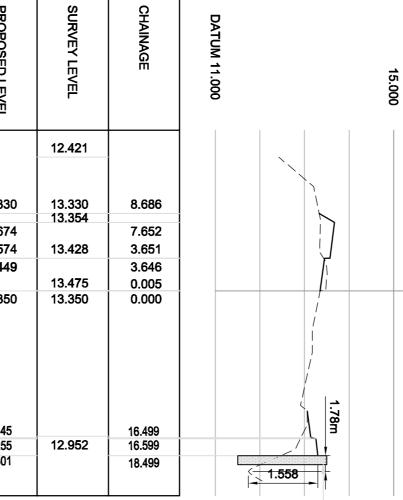


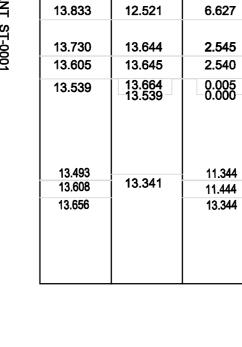
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12.258

CROSS SECTIONS SCALE DRAWING No AS SHOWN UN12455-ECC-DG-1201	CLIENT BARRATT HOMES PROJECT HISTON ROAD, CAMBRIDGE S278 WORKS DRAWING CHECK JJO DRAWING CHECK JJO DESIGNED DESIGNED DESIGN REVIEW SJM SR	Sinclair Knight Merz Colin Bucha New City Court 20 St Thomas Street London SE1 9RS	FOR AF	A13/11/13JJETSRUREVDATEDRAWNREV'DAPP'D	 All dimensions are in metres u Do not scale from the drawing. 	Ist
G-1201	GE REVIEWED SR SR SR SR SR SR SR SR SR SR SR SR SR	Inan Tel: +44(0)20 7939 6100 Fax: +44(0)20 7939 6103 Web: www.skmconsulting.com	PPROVAL	UPDATED TO REFLECT LATEST LAYOUT CHANGES REVISION	Inless otherwise stated.	





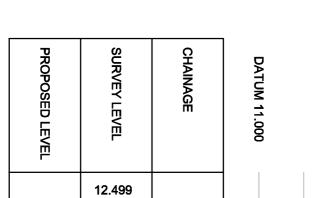


12.548

13.806

13.706

ALIGNMENT ST-0001 CHAINAGE 60.000



12.382

8.609

4.614

12.548

13.011

13.465

PROPOSED LEVEL 12.565 12.622 12.622 10.342

SURVEY LEVEL

CHAINAGE

DATUM 11.000

15.000

1.36r

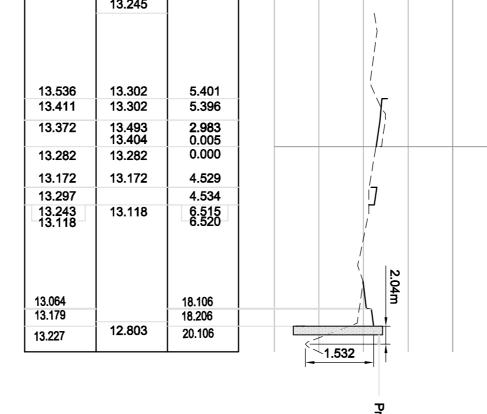
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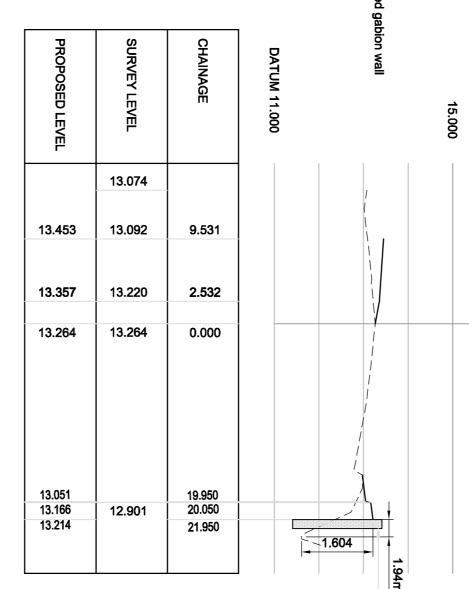
1.562

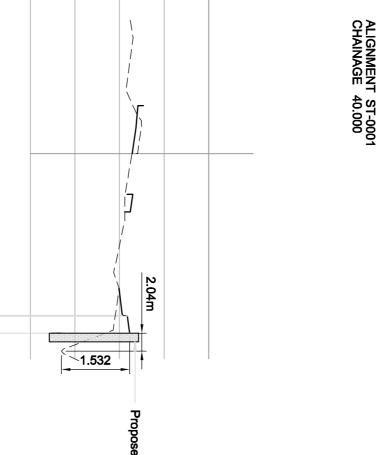
ALIGNMENT ST-0001 CHAINAGE 20.000

LOGIN NAME: ROBINSON, STEPHEN (SKM) LOCATION: I:\UNIF\Projects\UN12455\Deliverables\Drawings\Civils\DWG\DETAILED DESIGN\UN12455-ECC-DG-1202 - Cross Sections.dwg



DATUM 11.000

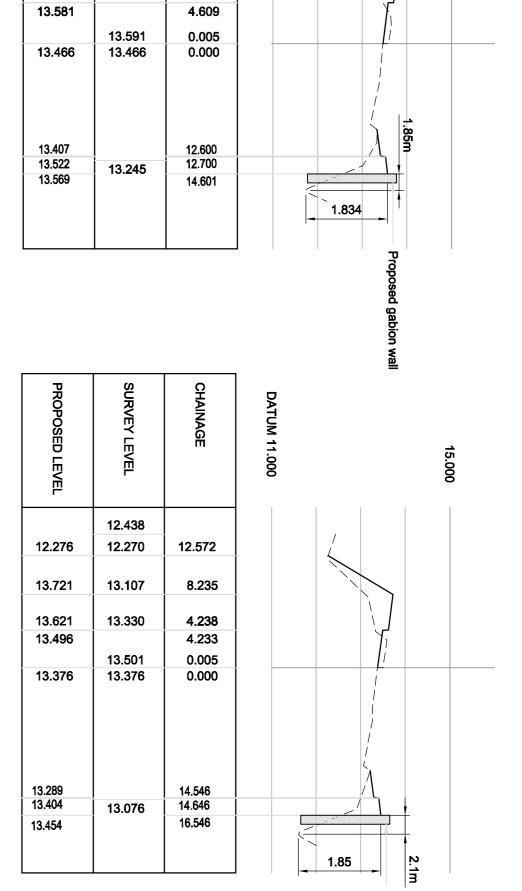




15.000

Pro

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	 All dimensions are in metres unless otherwise stated. Do not scale from the drawing.
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