

DISCLAIMER NOTES:

- THIS DOCUMENT IS COPYRIGHT OF THE ORIGINATOR AND MUST BE TREATED AS CONFIDENTIAL.
- THIS DOCUMENT MUST NOT BE ALTERED, REPRODUCED OR DISTRIBUTED WITHOUT PRIOR WRITTEN CONSENT OF THE ORIGINATOR.
- THIS DOCUMENT MUST NOT BE ALTERED - THE ORIGINATOR ACCEPTS NO RESPONSIBILITY FOR ANY DISCREPANCIES ARISING AS A RESULT OF THE ORIGINATOR'S INFORMATION BEING ALTERED BY OTHERS.
- ANY DISCREPANCY MUST BE REPORTED TO THE ORIGINATOR.
- DO NOT SCALE THIS DOCUMENT - USE FIGURED DIMENSIONS ONLY.
- ALL DIMENSIONS MUST BE CHECKED ON SITE PRIOR TO COMMENCEMENT OF ANY RELATED WORKS.
- THIS DOCUMENT MUST BE READ IN CONJUNCTION WITH ALL SUPPORTING DOCUMENTS PRODUCED BY THE ORIGINATOR AND OTHER PROJECT DISCIPLINES.
- THE ORIGINATOR ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF BACKGROUND INFORMATION PRODUCED BY THIRD PARTIES - THIS MUST BE TREATED AS INDICATIVE ONLY.
- USERS OF THIS DOCUMENT ARE RESPONSIBLE FOR CHECKING WHICH REVISION IS CURRENT.
- THE DOCUMENT STATUS "INFORMATION" OR "PRELIMINARY" INDICATES THAT THIS DRAWING IS FOR REFERENCE PURPOSES ONLY - THE ORIGINATOR WILL ACCEPT NO RESPONSIBILITY FOR THE COMPLETENESS OF INFORMATION UNDER THIS STATUS.
- THE DOCUMENT STATUS "RECORD" OR "AS BUILT" HAS BEEN PREPARED, IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE ORIGINATOR ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THIS "RECORD" OR "AS BUILT" DOCUMENT OR FOR ANY ERRORS OR OMISSIONS THAT MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT OF INCORRECT INFORMATION PROVIDED TO THE ORIGINATOR. THOSE RELYING ON THE "RECORD" OR "AS BUILT" DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY.

DRAWING NOTES:

CDM REGULATIONS 2015
 SIGNIFICANT OR NON-OBSVIOUS RISKS AND RISKS WHICH ARE DIFFICULT TO MANAGE ARE IDENTIFIED ON THIS DRAWING USING THE FOLLOWING SYMBOL IDENTIFIED TO THE RIGHT WITH BRIEF ACCOMPANYING TEXT. FOR FURTHER DETAILS OF THE RISKS IDENTIFIED BY DESIGNERS, REFERENCE SHOULD BE MADE TO CDM HAZARD REGISTER.

- KEY:**
- PLANNING BOUNDARY
 - PROPOSED PRIVATE SURFACE WATER DRAIN
 - PROPOSED PRIVATE FOUL WATER DRAIN
 - PROPOSED PRIVATE FOUL WATER RISING MAIN
 - DIVERTED PRIVATE SURFACE WATER SEWER
 - EXISTING PRIVATE SURFACE WATER SEWER
 - EXISTING ADOPTED FOUL WATER SEWER
 - EXISTING SEWER/DRAIN TO BE ABANDONED
 - ANTICIPATED CORRIDOR FOR PROPOSED SERVICES
 - PROPOSED SWALE/DITCH
 - - - 1IN100+40% CLIMATE CHANGE WATER LEVEL
 - / / / 1IN100+40% CLIMATE CHANGE FLOODED AREA
 - PROPOSED LINEAR DRAIN (D400)
 - MANHOLE/CATCHPIT (REFER TO MANHOLE SCHEDULE FOR DETAILS)
 - SURFACE AND FOUL ABOVE GROUND DRAINAGE POINTS. LOCATION TO BE VERIFIED BY ARCHITECTS

- NOTES:**
- REFER TO DRAWING 5002855-RDG-XX-XX-0510 & 0511 FOR DRAINAGE CONSTRUCTION DETAILS.
 - FOUL CONNECTIONS TO SOIL STACKS TO BE DETAILED AT DETAIL DESIGN STAGE.
 - SURFACE WATER CONNECTIONS TO DOWNPIPES, GULLIES AND LINEAR DRAINS TO BE DETAILED AT DETAIL DESIGN STAGE.
 - ABANDONED SEWERS/ DRAINS SHALL BE GRUBBED UP OR GROUTED UP WITH FOAMED CONCRETE.

PLANNING CONDITION DISCHARGE	16/08/2019	MG
FIRST ISSUE	13/11/2018	MG
REV DESCRIPTION	DATE	DRAWN
ORIGINATOR:		
RIDGE		
PROPERTY & CONSTRUCTION CONSULTANTS		
THE COWYARDS BLENHEIM PARK OXFORD ROAD WOODSTOCK, OX20 1QR		TEL: 01993 815000 WWW.RIDGE.CO.UK

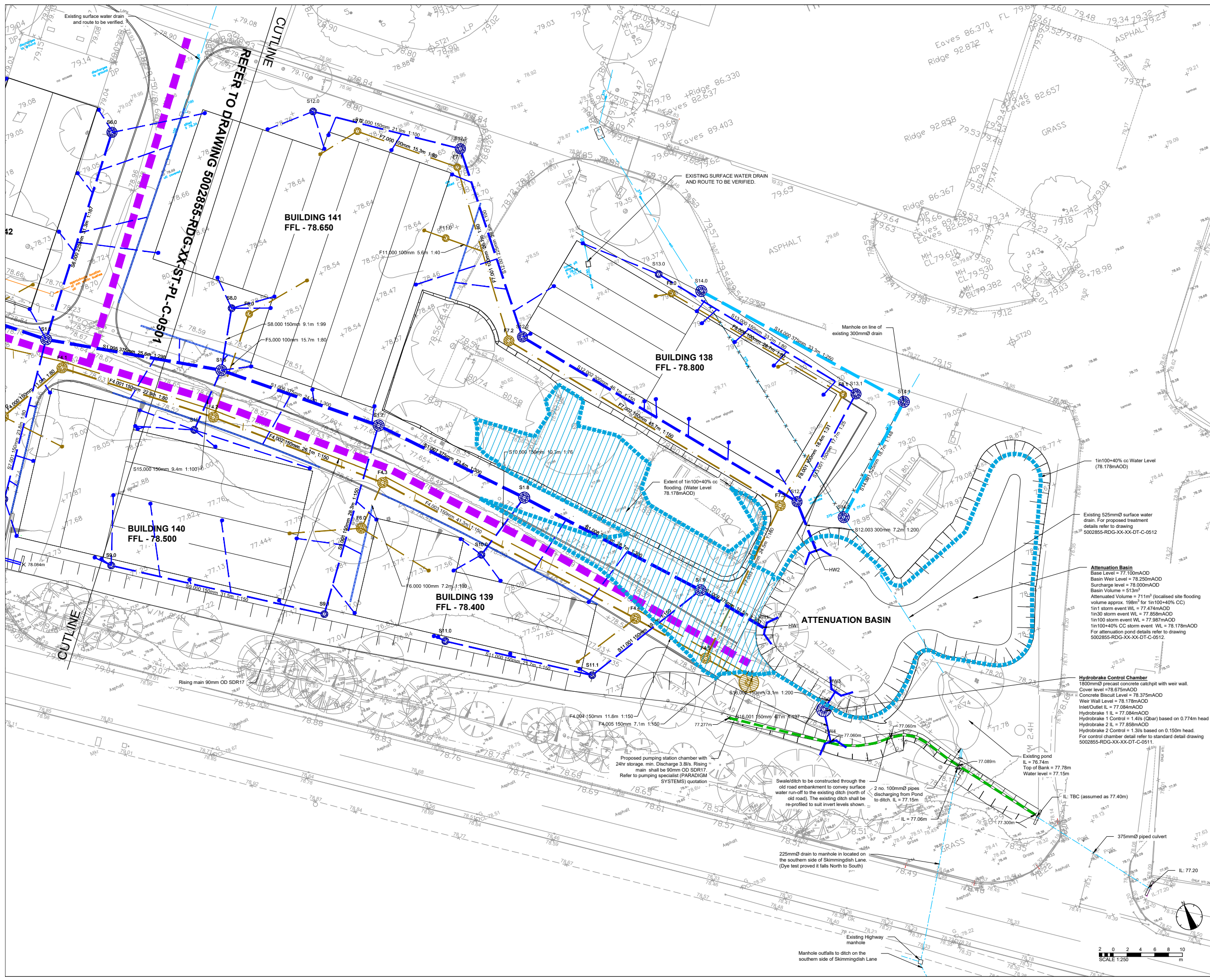
CLIENT:
BICESTER HERITAGE

IN ASSOCIATION WITH:

PROJECT:
NEW TECHNICAL SITE

TITLE:
SURFACE AND FOUL WATER DRAINAGE LAYOUT SHEET 1 OF 2

ENG: MG	CSE: SW	KCE:	SCALE: 1:250	@ A1				
STATUS:			INITIAL ISSUE: 13/11/2018					
PLANNING								
DRAWING NO:	PROJECT:	ORG:	ZONE:	LEVEL:	TYPE:	ROLE:	NUMBER:	REV:
	5002855	RDG	XX	ST	PL	C	0501	A



DISCLAIMER NOTES:

- THIS DOCUMENT IS COPYRIGHT OF THE ORIGINATOR AND MUST BE TREATED AS CONFIDENTIAL.
- THIS DOCUMENT MUST NOT BE ALTERED, REPRODUCED OR DISTRIBUTED WITHOUT PRIOR WRITTEN CONSENT OF THE ORIGINATOR.
- THIS DOCUMENT MUST NOT BE ALTERED - THE ORIGINATOR ACCEPTS NO RESPONSIBILITY FOR ANY DISCREPANCIES ARISING AS A RESULT OF THE ORIGINATOR'S INFORMATION BEING ALTERED BY OTHERS.
- ANY DISCREPANCY MUST BE REPORTED TO THE ORIGINATOR.
- DO NOT SCALE THIS DOCUMENT - USE FIGURED DIMENSIONS ONLY.
- ALL DIMENSIONS MUST BE CHECKED ON SITE PRIOR TO COMMENCEMENT OF ANY RELATED WORKS.
- THIS DOCUMENT MUST BE READ IN CONJUNCTION WITH ALL SUPPORTING DOCUMENTS PRODUCED BY THE ORIGINATOR AND OTHER PROJECT DISCIPLINES.
- THE ORIGINATOR ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF BACKGROUND INFORMATION PRODUCED BY THIRD PARTIES - THIS MUST BE TREATED AS INDICATIVE ONLY.
- USERS OF THIS DOCUMENT ARE RESPONSIBLE FOR CHECKING WHICH REVISION IS CURRENT.
- THE DOCUMENT STATUS "INFORMATION" OR "PRELIMINARY" INDICATES THAT THIS DRAWING IS FOR REFERENCE PURPOSES ONLY - THE ORIGINATOR WILL ACCEPT NO RESPONSIBILITY FOR THE COMPLETENESS OF INFORMATION UNDER THIS STATUS.
- THE DOCUMENT STATUS "RECORD" OR "AS BUILT" HAS BEEN PREPARED, IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE ORIGINATOR ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THIS "RECORD" OR "AS BUILT" DOCUMENT OR FOR ANY ERRORS OR OMISSIONS THAT MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT OF INCORRECT INFORMATION PROVIDED TO THE ORIGINATOR. THOSE RELYING ON THE "RECORD" OR "AS BUILT" DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY.

DRAWING NOTES:

CDM REGULATIONS 2015
 SIGNIFICANT OR NON-OBSVIOUS RISKS AND RISKS WHICH ARE DIFFICULT TO MANAGE ARE IDENTIFIED ON THIS DRAWING USING THE FOLLOWING SYMBOL IDENTIFIED TO THE RIGHT WITH BRIEF ACCOMPANYING TEXT. FOR FURTHER DETAILS OF THE RISKS IDENTIFIED BY DESIGNERS, REFERENCE SHOULD BE MADE TO CDM HAZARD REGISTER.

- KEY:**
- PLANNING BOUNDARY
 - PROPOSED PRIVATE SURFACE WATER DRAIN
 - PROPOSED PRIVATE FOUL WATER DRAIN
 - PROPOSED PRIVATE FOUL WATER RISING MAIN
 - DIVERTED PRIVATE SURFACE WATER SEWER
 - EXISTING PRIVATE SURFACE WATER SEWER
 - EXISTING ADOPTED FOUL WATER SEWER
 - EXISTING SEWER/DRAIN TO BE ABANDONED
 - ANTICIPATED CORRIDOR FOR PROPOSED SERVICES
 - PROPOSED SWALE/DITCH
 - 1IN100+40% CLIMATE CHANGE WATER LEVEL
 - 1IN100+40% CLIMATE CHANGE FLOODED AREA
 - PROPOSED LINEAR DRAIN (D400)
 - MANHOLE/CATCHPIT (REFER TO MANHOLE SCHEDULE FOR DETAILS)
 - SURFACE AND FOUL ABOVE GROUND DRAINAGE POINTS. LOCATION TO BE VERIFIED BY ARCHITECTS

- NOTES:**
- REFER TO DRAWING 5002855-RDG-XX-XX-DT-C-0510 & 0511 FOR DRAINAGE CONSTRUCTION DETAILS.
 - FOUL CONNECTIONS TO SOIL STACKS TO BE DETAILED AT DETAIL DESIGN STAGE.
 - SURFACE WATER CONNECTIONS TO DOWNPIPES, GULLIES AND LINEAR DRAINS TO BE DETAILED AT DETAIL DESIGN STAGE.
 - ABANDONED SEWERS/ DRAINS SHALL BE GRUBBED UP OR GROUDED UP WITH FOAMED CONCRETE.

B	PLANNING CONDITION DISCHARGE	16/08/2019	MG
A	PIPE 7.00T CHANGED TO 100MM DIA.	24/01/2019	MG
-	FIRST ISSUE	13/08/2018	MG
REV	DESCRIPTION	DATE	DRAWN

ORIGINATOR:



THE COWYARDS
 BLENDHEIM PARK
 OXFORD ROAD
 WOODSTOCK, OX20 1QR
 TEL: 01993 815000
 WWW.RIDGE.CO.UK

CLIENT:
 BICESTER HERITAGE

IN ASSOCIATION WITH:

PROJECT:
 NEW TECHNICAL SITE

TITLE:
 SURFACE AND FOUL WATER DRAINAGE LAYOUT
 SHEET 2 OF 2

ENG: MG	CSE: SW	KCE:	SCALE: 1:250	@ A1
STATUS:			INITIAL ISSUE:	13/11/2018

PLANNING								
DRAWING NO:	PROJECT:	ORG:	ZONE:	LEVEL:	TYPE:	ROLE:	NUMBER:	REV:
5002855	RDG	XX	ST	PL	C	0502	B	

Attenuation Basin
 Base Level = 77.10m AOD
 Basin Weir Level = 78.25m AOD
 Surcharge Level = 78.00m AOD
 Basin Volume = 513m³
 Attenuated Volume = 711m³ (localised site flooding volume approx. 198m³ for 1in100+40% CC)
 1in1 storm event WL = 77.47m AOD
 1in30 storm event WL = 77.85m AOD
 1in100 storm event WL = 77.98m AOD
 1in100+40% CC storm event WL = 78.17m AOD
 For attenuation pond details refer to drawing 5002855-RDG-XX-XX-DT-C-0512.

Hydrobrake Control Chamber
 1800mmØ precast concrete catchpit with weir wall.
 Cover level = 78.675m AOD
 Concrete Biscuit Level = 78.375m AOD
 Weir Wall Level = 78.178m AOD
 Inlet/Outlet IL = 77.084m AOD
 Hydrobrake 1 IL = 77.084m AOD
 Hydrobrake 1 Control = 1.41s (Obar) based on 0.774m head
 Hydrobrake 2 IL = 77.858m AOD
 Hydrobrake 2 Control = 1.31s based on 0.150m head.
 For control chamber detail refer to standard detail drawing 5002855-RDG-XX-XX-DT-C-0511.

Proposed pumping station chamber with 24hr storage. min. Discharge 3.8/s. Rising main shall be 90mm OD SDR17. Refer to pumping specialist (PARADIGM SYSTEMS) quotation

Swale/ditch to be constructed through the old road embankment to convey surface water run-off to the existing ditch (north of old road). The existing ditch shall be re-profiled to suit invert levels shown.

2 no. 100mmØ pipes discharging from Pond to ditch. IL = 77.15m

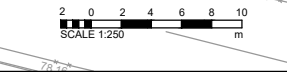
225mmØ drain to manhole in located on the southern side of Skimmingdish Lane. (Dye test proved it falls North to South)

Existing pond IL = 76.74m
 Top of Bank = 77.78m
 Water level = 77.15m

IL: TBC (assumed as 77.40m)

375mmØ piped culvert

Existing Highway manhole
 Manhole outlets to ditch on the southern side of Skimmingdish Lane



FOUL WATER DRAINAGE MANHOLE SCHEDULE				
MANHOLE REF.	INCOMING INVERT LEVEL	OUTGOING INVERT LEVEL	COVER LEVEL	MANHOLE TYPE
F1.0		78.125 (100mmØ)	78.824	Polypropylene Inspection Chamber (PPIC) 600mmØ - D400 Cover and Frame
F1.1	78.068 (100mmØ) 78.069 (100mmØ)	78.018 (150mmØ)	78.833	Precast Concrete (PCC) Manhole 1200mmØ - D400 Cover and Frame
F1.2	77.800 (150mmØ) 77.911 (100mmØ)		78.783	Precast Concrete (PCC) Manhole 1200mmØ - D400 Cover and Frame
F2.0		78.072 (150mmØ)	78.771	Polypropylene Inspection Chamber (PPIC) 600mmØ - D400 Cover and Frame
F2.1	77.932 (150mmØ)	77.932 (150mmØ)	78.772	Polypropylene Inspection Chamber (PPIC) 600mmØ - D400 Cover and Frame
F2.2	77.756 (150mmØ)		79.120	Precast Concrete (PCC) Manhole 1200mmØ - D400 Cover and Frame
F3.0		78.100 (100mmØ)	78.630	Polypropylene Inspection Chamber (PPIC) 600mmØ - D400 Cover and Frame
F4.0		77.600 (150mmØ)	78.562	Precast Concrete (PCC) Manhole 1200mmØ - D400 Cover and Frame
F4.1	77.463 (150mmØ)	77.463 (150mmØ)	78.502	Precast Concrete (PCC) Manhole 1200mmØ - D400 Cover and Frame
F4.2	77.176 (150mmØ) 77.612 (100mmØ)	77.176 (150mmØ)	78.419	Precast Concrete (PCC) Manhole 1200mmØ - D400 Cover and Frame
F4.3	77.002 (150mmØ) 77.285 (100mmØ)	77.002 (150mmØ)	78.330	Precast Concrete (PCC) Manhole 1200mmØ - D400 Cover and Frame
F4.4	76.727 (150mmØ)	76.727 (150mmØ)	78.221	Precast Concrete (PCC) Manhole 1200mmØ - D400 Cover and Frame
F4.5	76.649 (150mmØ) 76.649 (150mmØ)	76.649 (150mmØ)	78.143	Precast Concrete (PCC) Manhole 1200mmØ - D400 Cover and Frame
F4.6	76.601 (150mmØ)		78.232	Pumping Chamber - GRP holding Tank 2,500mm Ø x 4,200mm deep
F5.0		77.809 (100mmØ)	78.650	Polypropylene Inspection Chamber (PPIC) 600mmØ - D400 Cover and Frame
F6.0		77.357 (100mmØ)	78.375	Precast Concrete (PCC) Manhole 1200mmØ - D400 Cover and Frame
F7.0		77.684 (100mmØ)	78.700	Polypropylene Inspection Chamber (PPIC) 600mmØ - D400 Cover and Frame
F7.1	77.493 (100mmØ)	77.493 (100mmØ)	78.681	Polypropylene Inspection Chamber (PPIC) 600mmØ - D400 Cover and Frame
F7.2	77.167 (100mmØ)	77.117 (150mmØ)	78.710	Precast Concrete (PCC) Manhole 1200mmØ - D400 Cover and Frame
F7.3	76.812 (150mmØ) 76.852 (100mmØ)	76.812 (150mmØ)	78.618	Precast Concrete (PCC) Manhole 1200mmØ - D400 Cover and Frame
F8.0		77.800 (100mmØ)	78.796	Polypropylene Inspection Chamber (PPIC) 600mmØ - D400 Cover and Frame
F8.1	77.441 (100mmØ)	77.441 (100mmØ)	78.770	Polypropylene Inspection Chamber (PPIC) 600mmØ - D400 Cover and Frame
F9.0		78.139 (100mmØ)	78.928	Polypropylene Inspection Chamber (PPIC) 600mmØ - D400 Cover and Frame
F10.0		77.900 (100mmØ)	78.827	Polypropylene Inspection Chamber (PPIC) 600mmØ - D400 Cover and Frame
F11.0		77.470 (100mmØ)	78.619	Polypropylene Inspection Chamber (PPIC) 600mmØ - D400 Cover and Frame
FW EX1	77.825 (100mmØ)		77.936	Existing Thames Water Sewer Manhole
Junction	77.330 (100mmØ)		77.747	Y Junction

FOUL WATER DRAINAGE PIPE SCHEDULE									
PIPE NAME	PIPE DIAMETER (mm)	LENGTH (m)	SLOPE	UPSTREAM STRUCTURE REF.	DOWNSTREAM STRUCTURE REF.	UPSTREAM INVERT LEVEL (m)	DOWNSTREAM INVERT LEVEL (m)	UPSTREAM DEPTH TO SOFFIT (m)	DOWNSTREAM DEPTH TO SOFFIT (m)
F1.000	100	8.614	1:150	F1.0	F1.1	78.125	78.068	0.588	0.654
F1.001	150	32.711	1:150	F1.1	F1.2	78.018	77.800	0.651	0.819
F2.000	150	21.082	1:150	F2.0	F2.1	78.072	77.932	0.535	0.676
F2.001	150	26.370	1:150	F2.1	F2.2	77.932	77.756	0.677	0.993
F3.000	100	15.094	1:80	F3.0	F1.2	78.100	77.911	0.425	0.767
F4.000	150	10.974	1:80	F4.0	F4.1	77.600	77.463	0.798	0.875
F4.001	150	22.944	1:80	F4.1	F4.2	77.463	77.176	0.875	1.078
F4.002	150	26.141	1:150	F4.2	F4.3	77.176	77.002	1.079	1.164
F4.003	150	41.348	1:150	F4.3	F4.4	77.002	76.727	1.164	1.330
F4.004	150	11.639	1:150	F4.4	F4.5	76.727	76.649	1.339	1.338
F4.005	150	7.148	1:150	F4.5	F4.6	76.649	76.601	1.339	1.476
F5.000	100	15.730	1:80	F5.0	F4.2	77.809	77.612	0.730	0.696
F6.000	100	7.244	1:100	F6.0	F4.3	77.357	77.285	0.906	0.934
F7.000	100	15.275	1:80	F7.0	F7.1	77.684	77.493	0.811	1.083
F7.001	100	26.099	1:80	F7.1	F7.2	77.493	77.167	1.082	1.438
F7.002	150	45.730	1:150	F7.2	F7.3	77.117	76.812	1.439	1.651
F7.003	150	24.470	1:150	F7.3	F4.5	76.812	76.649	1.651	1.339
F8.000	100	28.684	1:80	F8.0	F8.1	77.800	77.441	0.891	1.224
F8.001	100	18.368	1:31	F8.1	F7.3	77.441	76.852	1.224	1.661
F9.001	100	10.604	1:150	F9.0	F1.1	78.139	78.068	0.684	0.660
F10.000	100	4.203	1:56	F10.0	FW EX1	77.900	77.825	0.823	0.826
F11.000	100	5.599	1:40	F11.0	Junction	77.470	77.330	1.044	1.181

SURFACE WATER DRAINAGE 1 MANHOLE SCHEDULE				
MANHOLE REF.	INCOMING INVERT LEVEL	OUTGOING INVERT LEVEL	COVER LEVEL	MANHOLE TYPE
HW1	77.161 (375mmØ)		77.914	Precast Concrete Headwall
S1.0		78.515 (100mmØ)	78.920	Polypropylene Inspection Chamber (PPIC) 600mmØ - D400 Cover and Frame
S1.1	78.468 (100mmØ)	78.468 (150mmØ)	78.923	Polypropylene Inspection Chamber (PPIC) 600mmØ - D400 Cover and Frame
S1.2	78.338 (150mmØ) 78.388 (100mmØ)	78.188 (300mmØ)	78.995	Precast Concrete (PCC) Catchpit 1350mmØ - D400 Cover and Frame
S1.3	78.031 (300mmØ) 77.692 (150mmØ)	77.692 (375mmØ)	78.838	Precast Concrete (PCC) Catchpit 1350mmØ - D400 Cover and Frame
S1.4	77.649 (375mmØ) 77.649 (150mmØ)	77.649 (375mmØ)	78.729	Precast Concrete (PCC) Catchpit 1350mmØ - D400 Cover and Frame
S1.5	77.536 (375mmØ) 77.761 (150mmØ) 77.686 (225mmØ)	77.536 (375mmØ)	78.616	Precast Concrete (PCC) Catchpit 1350mmØ - D400 Cover and Frame
S1.6	77.450 (375mmØ) 77.675 (150mmØ) 77.675 (150mmØ)	77.450 (375mmØ)	78.539	Precast Concrete (PCC) Catchpit 1350mmØ - D400 Cover and Frame
S1.7	77.370 (375mmØ) 77.595 (150mmØ)	77.370 (375mmØ)	78.488	Precast Concrete (PCC) Catchpit 1350mmØ - D400 Cover and Frame
S1.8	77.292 (375mmØ) 77.517 (150mmØ)	77.292 (375mmØ)	78.244	Precast Concrete (PCC) Catchpit 1350mmØ - D400 Cover and Frame
S1.9	77.196 (375mmØ) 77.421 (150mmØ)	77.196 (375mmØ)	78.149	Precast Concrete (PCC) Catchpit 1350mmØ - D400 Cover and Frame
S2.0		78.493 (100mmØ)	79.350	Polypropylene Inspection Chamber (PPIC) 600mmØ - D400 Cover and Frame
S3.0		78.359 (150mmØ)	78.826	Polypropylene Inspection Chamber (PPIC) 600mmØ - D400 Cover and Frame
S3.1	78.117 (150mmØ) 78.117 (150mmØ)	78.117 (150mmØ)	78.773	Polypropylene Inspection Chamber (PPIC) 600mmØ - D400 Cover and Frame
S4.0		78.272 (150mmØ)	78.727	Polypropylene Inspection Chamber (PPIC) 600mmØ - D400 Cover and Frame
S5.0		78.165 (150mmØ)	78.754	Polypropylene Inspection Chamber (PPIC) 600mmØ - D400 Cover and Frame
S5.1	77.988 (150mmØ)	77.988 (150mmØ)	79.100	Polypropylene Inspection Chamber (PPIC) 600mmØ - D400 Cover and Frame
S6.0		77.873 (225mmØ)	78.768	Precast Concrete (PCC) Catchpit 1200mmØ - D400 Cover and Frame
S7.0		78.154 (150mmØ)	78.623	Polypropylene Inspection Chamber (PPIC) 600mmØ - D400 Cover and Frame
S7.1	78.059 (150mmØ)	78.059 (150mmØ)	78.537	Polypropylene Inspection Chamber (PPIC) 600mmØ - D400 Cover and Frame
S8.0		77.766 (150mmØ)	78.618	Polypropylene Inspection Chamber (PPIC) 600mmØ - D400 Cover and Frame
S9.0		77.994 (150mmØ)	78.472	Polypropylene Inspection Chamber (PPIC) 600mmØ - D400 Cover and Frame
S9.1	77.784 (150mmØ)	77.784 (150mmØ)	78.415	Polypropylene Inspection Chamber (PPIC) 600mmØ - D400 Cover and Frame

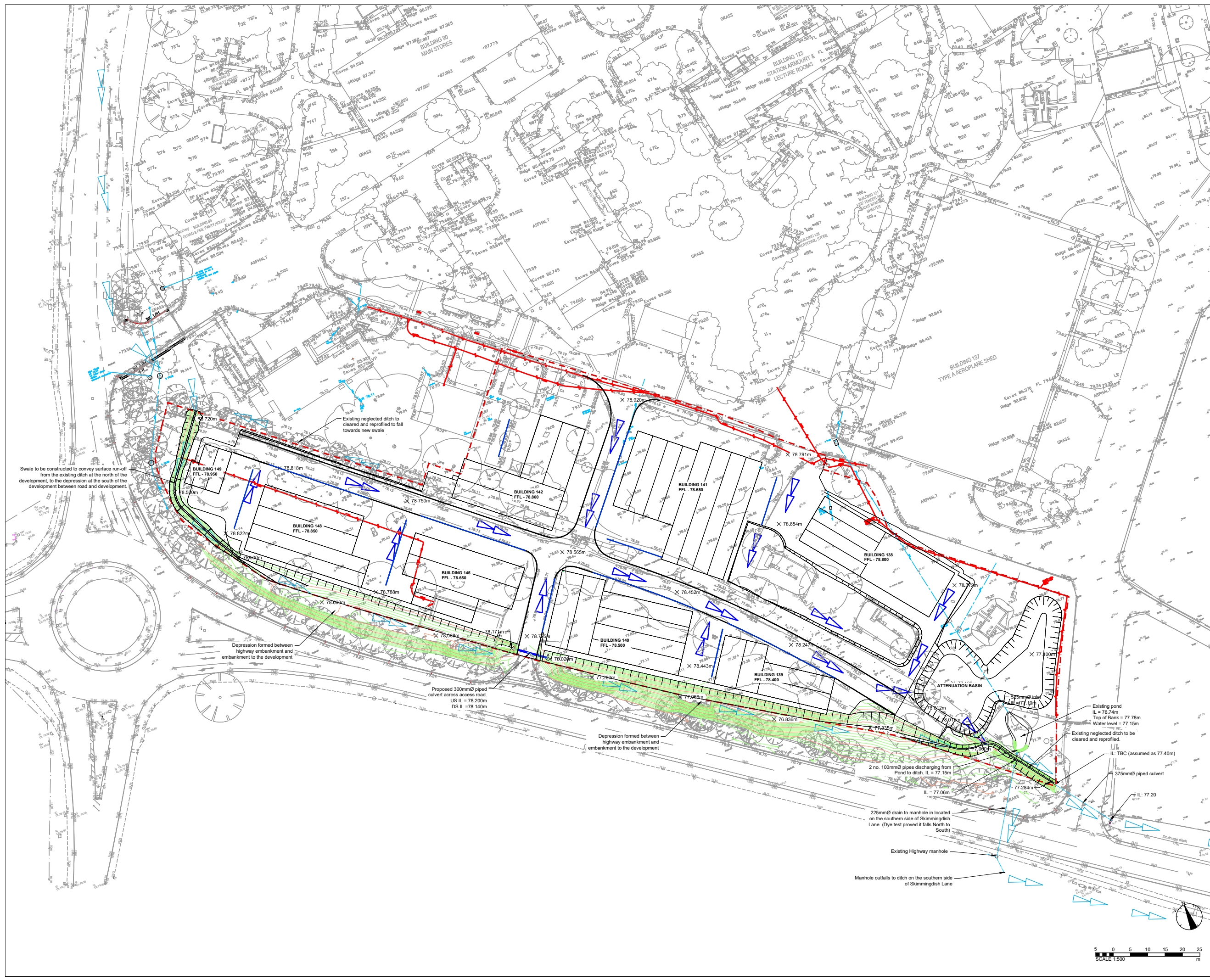
SURFACE WATER DRAINAGE 1 PIPE SCHEDULE									
PIPE NAME	PIPE DIAMETER (mm)	LENGTH (m)	SLOPE	UPSTREAM STRUCTURE REF.	DOWNSTREAM STRUCTURE REF.	UPSTREAM INVERT LEVEL (m)	DOWNSTREAM INVERT LEVEL (m)	UPSTREAM DEPTH TO SOFFIT (m)	DOWNSTREAM DEPTH TO SOFFIT (m)
S1.000	100	7.102	1:150	S1.0	S1.1	78.515	78.468	0.295	0.270
S1.001	150	19.430	1:150	S1.1	S1.2	78.468	78.338	0.220	0.468
S1.002	300	47.031	1:300	S1.2	S1.3	78.188	78.031	0.466	0.462
S1.003	375	11.326	1:263	S1.3	S1.4	77.692	77.649	0.725	0.697
S1.004	375	35.387	1:313	S1.4	S1.5	77.649	77.536	0.697	0.697
S1.005	375	25.611	1:298	S1.5	S1.6	77.536	77.450	0.697	0.706
S1.006	375	24.024	1:300	S1.6	S1.7	77.450	77.370	0.706	0.735
S1.007	375	23.425	1:300	S1.7	S1.8	77.370	77.292	0.735	0.517
S1.008	375	28.688	1:300	S1.8	S1.9	77.292	77.196	0.517	0.477
S1.009	375	10.522	1:303	S1.9	HW1	77.196	77.161	0.478	0.159
S2.000	100	10.458	1:100	S2.0	S1.2	78.493	78.388	0.652	0.468
S3.000	150	36.308	1:150	S3.0	S3.1	78.359	78.117	0.312	0.501
S3.001	150	30.074	1:71	S3.1	S1.3	78.117	77.692	0.501	0.953
S4.000	150	6.192	1:40	S4.0	S3.1	78.272	78.117	0.272	0.501
S5.000	150	15.100	1:85	S5.0	S5.1	78.165	77.988	0.434	0.857
S5.001	150	17.229	1:51	S5.1	S1.4	77.988	77.649	0.857	0.925
S6.000	225	31.280	1:167	S6.0	S1.5	77.873	77.686	0.663	0.698
S7.000	150	14.320	1:151	S7.0	S7.1	78.154	78.059	0.314	0.323
S7.001	150	23.791	1:80	S7.1	S1.5	78.059	77.761	0.323	0.700
S8.000	150	9.054	1:99	S8.0	S1.6	77.766	77.675	0.697	0.709
S9.000	150	31.492	1:150	S9.0	S9.1	77.994	77.784	0.323	0.476
S9.001	150	28.272	1:150	S9.1	S1.7	77.784	77.595	0.476	0.738
S10.000	150	10.281	1:76	S10.0	S1.8	77.653	77.517	0.533	0.520
S11.000	150	21.736	1:150	S11.0	S11.1	77.698	77.553	0.524	0.438
S11.001	150	19.863	1:150	S11.1	S1.9	77.553	77.421	0.438	0.481
S15.000	150	9.442	1:100	S15	S1.6	77.769	77.675	0.513	0.709

SURFACE WATER DRAINAGE 1 MANHOLE SCHEDULE				
MANHOLE REF.	INCOMING INVERT LEVEL	OUTGOING INVERT LEVEL	COVER LEVEL	MANHOLE TYPE
S10.0		77.653 (150mmØ)	78.341	Polypropylene Inspection Chamber (PPIC) 600mmØ - D400 Cover and Frame
S11.0		77.698 (150mmØ)	78.377	Polypropylene Inspection Chamber (PPIC) 600mmØ - D400 Cover and Frame
S11.1	77.553 (150mmØ)	77.553 (150mmØ)	78.146	Polypropylene Inspection Chamber (PPIC) 600mmØ - D400 Cover and Frame
S15		77.769 (150mmØ)	78.437	Polypropylene Inspection Chamber (PPIC) 600mmØ - D400 Cover and Frame

SURFACE WATER DRAINAGE 2 MANHOLE SCHEDULE				
MANHOLE REF.	INCOMING INVERT LEVEL	OUTGOING INVERT LEVEL	COVER LEVEL	MANHOLE TYPE
HW2	77.124 (300mmØ)		77.731	Precast Concrete Headwall
S12.0		78.121 (150mmØ)	78.750	Polypropylene Inspection Chamber (PPIC) 600mmØ - D400 Cover and Frame
S12.1	77.902 (150mmØ)	77.827 (225mmØ)	78.765	Precast Concrete (PCC) Catchpit 1200mmØ - D400 Cover and Frame
S12.2	77.542 (225mmØ)	77.467 (300mmØ)	78.768	Precast Concrete (PCC) Catchpit 1200mmØ - D400 Cover and Frame
S12.3	77.311 (150mmØ) 77.160 (300mmØ)	77.160 (300mmØ)	78.679	Precast Concrete (PCC) Catchpit 1200mmØ - D400 Cover and Frame
S13.0		78.435 (150mmØ)	79.072	Polypropylene Inspection Chamber (PPIC) 600mmØ - D400 Cover and Frame
S13.1	78.019 (150mmØ)	78.019 (150mmØ)	79.374	Precast Concrete (PCC) Catchpit 1200mmØ - D400 Cover and Frame

SURFACE WATER DRAINAGE DIVERSION MANHOLE SCHEDULE				
MANHOLE REF.	INCOMING INVERT LEVEL	OUTGOING INVERT LEVEL	COVER LEVEL	MANHOLE TYPE
S14.0		77.710 (375mmØ)	79.356	Precast Concrete (PCC) Catchpit 1350mmØ - D400 Cover and Frame
S14.1	77.577 (375mmØ)	77.427 (525mmØ)	79.210	Precast Concrete (PCC) Catchpit 1350mmØ - D400 Cover and Frame
S14.2	77.300 (525mmØ)		79.083	Precast Concrete (PCC) Catchpit 1350mmØ - D400 Cover and Frame

SURFACE WATER DRAINAGE -DISCHARGE MANHOLE SCHEDULE				
--	--	--	--	--



DISCLAIMER NOTES:

- THIS DOCUMENT IS COPYRIGHT OF THE ORIGINATOR AND MUST BE TREATED AS CONFIDENTIAL.
- THIS DOCUMENT MUST NOT BE ALTERED, REPRODUCED OR DISTRIBUTED WITHOUT PRIOR WRITTEN CONSENT OF THE ORIGINATOR.
- THIS DOCUMENT MUST NOT BE ALTERED - THE ORIGINATOR ACCEPTS NO RESPONSIBILITY FOR ANY DISCREPANCIES ARISING AS A RESULT OF THE ORIGINATOR'S INFORMATION BEING ALTERED BY OTHERS.
- ANY DISCREPANCY MUST BE REPORTED TO THE ORIGINATOR.
- DO NOT SCALE THIS DOCUMENT - USE FIGURED DIMENSIONS ONLY.
- ALL DIMENSIONS MUST BE CHECKED ON SITE PRIOR TO COMMENCEMENT OF ANY RELATED WORKS.
- THIS DOCUMENT MUST BE READ IN CONJUNCTION WITH ALL SUPPORTING DOCUMENTS PRODUCED BY THE ORIGINATOR AND OTHER PROJECT DISCIPLINES.
- THE ORIGINATOR ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF BACKGROUND INFORMATION PRODUCED BY THIRD PARTIES - THIS MUST BE TREATED AS INDICATIVE ONLY.
- USERS OF THIS DOCUMENT ARE RESPONSIBLE FOR CHECKING WHICH REVISION IS CURRENT.
- THE DOCUMENT STATUS "INFORMATION" OR "PRELIMINARY" INDICATES THAT THIS DRAWING IS FOR REFERENCE PURPOSES ONLY - THE ORIGINATOR WILL ACCEPT NO RESPONSIBILITY FOR THE COMPLETENESS OF INFORMATION UNDER THIS STATUS.
- THE DOCUMENT STATUS "RECORD" OR "AS BUILT" HAS BEEN PREPARED, IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE ORIGINATOR ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THIS "RECORD" OR "AS BUILT" DOCUMENT OR FOR ANY ERRORS OR OMISSIONS THAT MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT OF INCORRECT INFORMATION PROVIDED TO THE ORIGINATOR. THOSE RELYING ON THE "RECORD" OR "AS BUILT" DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY.

DRAWING NOTES:

CDM REGULATIONS 2015
 SIGNIFICANT OR NON-OBSVIOUS RISKS AND RISKS WHICH ARE DIFFICULT TO MANAGE ARE IDENTIFIED ON THIS DRAWING USING THE FOLLOWING SYMBOL IDENTIFIED TO THE RIGHT WITH BRIEF ACCOMPANYING TEXT. FOR FURTHER DETAILS OF THE RISKS IDENTIFIED BY DESIGNERS, REFERENCE SHOULD BE MADE TO CDM HAZARD REGISTER.

- KEY:**
- PLANNING BOUNDARY
 - MINOR CONTOUR (100MM INTERVALS)
 - MAJOR CONTOUR (500MM INTERVAL)
 - EXISTING SURFACE WATER DRAIN
 - PROPOSED PIPED CULVERT
 - ON SITE OVERLAND EXCEEDANCE FLOW FLOOD ROUTING
 - OFF SITE OVERLAND EXCEEDANCE FLOW FLOOD ROUTING
 - X 78.777m PROPOSED SITE LEVELS

A	FOR DISCHARGE OF CONDITIONS	06/08/2019	MG
-	TENDER ISSUE	04/12/2018	MG
REV	DESCRIPTION	DATE	DRAWN

ORIGINATOR:

RIDGE
 PROPERTY & CONSTRUCTION CONSULTANTS

THE COWYARDS
 BLENNHEIM PARK
 OXFORD ROAD
 WOODSTOCK, OX20 1QR

TEL: 01993 815000
 WWW.RIDGE.CO.UK

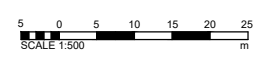
CLIENT:
BICESTER HERITAGE

IN ASSOCIATION WITH:

PROJECT:
NEW TECHNICAL SITE

TITLE:
PROPOSED OVERLAND EXCEEDANCE FLOW FLOOD ROUTING LAYOUT

ENG:	CSE:	ICSE:	SCALE: 1:500	@ A1				
MG	SW		INITIAL ISSUE: 04/12/2018					
STATUS: PLANNING								
DRAWING No:	PROJECT:	ORG:	ZONE:	LEVEL:	TYPE:	ROLE:	NUMBER:	REV:
	5002855	RDG	XX	ST	PL	C	0504	A



Flood risk from rivers or the sea

Extent of flooding

Flood risk from surface water

Extent of flooding

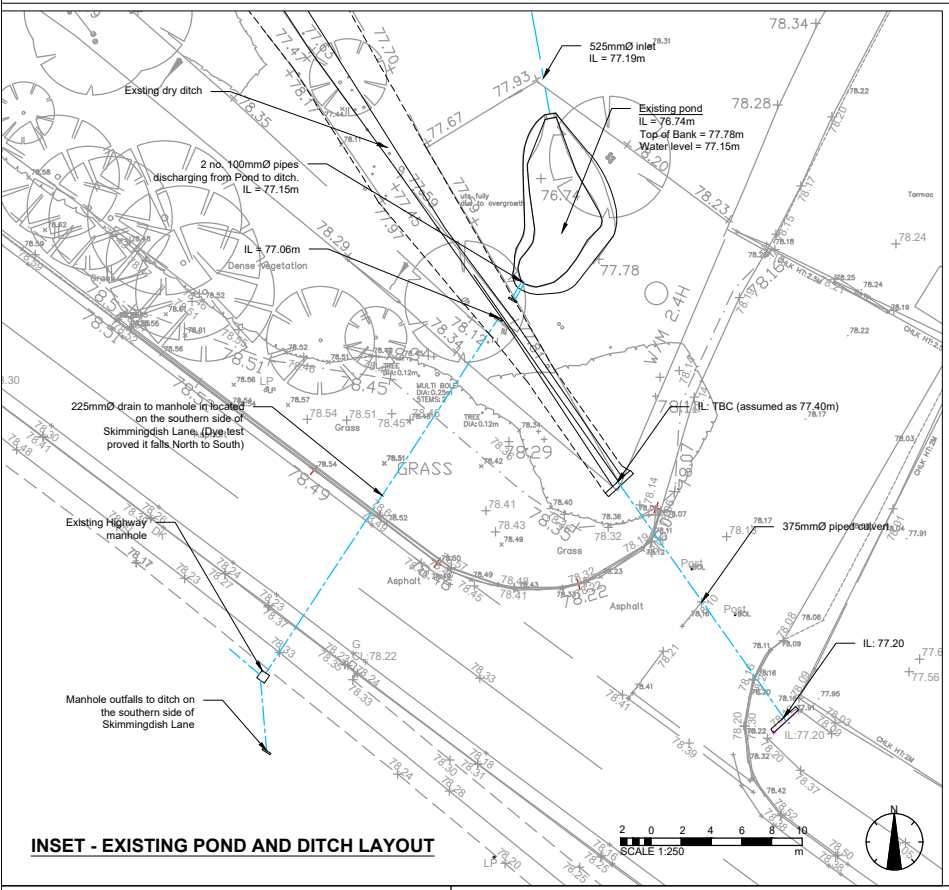
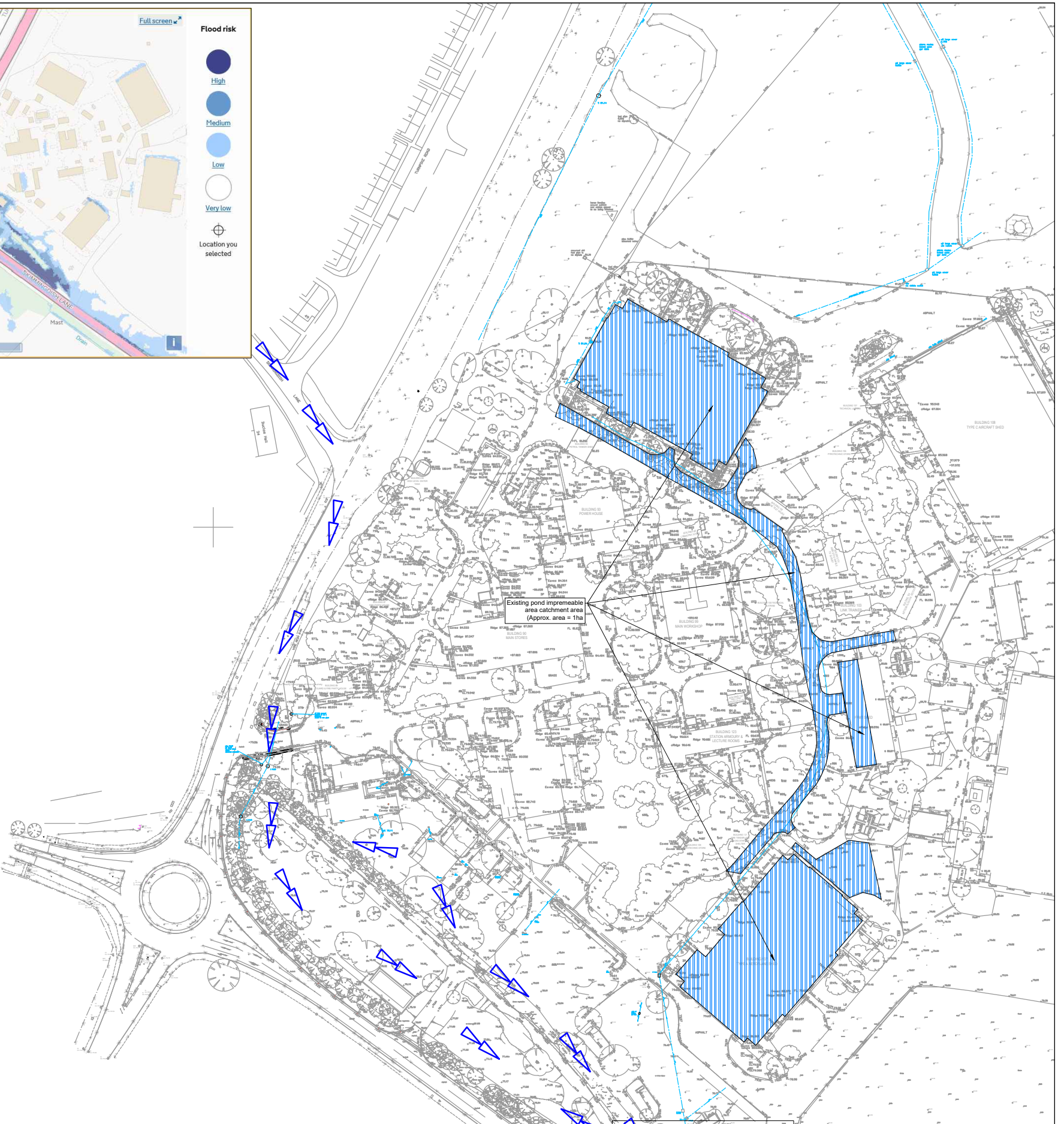
Flood risk from reservoirs

Extent of flooding

Flood risk

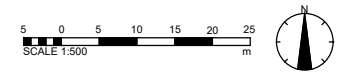
- High
- Medium
- Low
- Very low

Location you selected



Key:

- Existing surface water drain
- Impermeable catchments to existing pond
- Overland flow flood routing based on EA Surface Water Flood Risk Maps



DISCLAIMER NOTES:

- THIS DOCUMENT IS COPYRIGHT OF THE ORIGINATOR AND MUST BE TREATED AS CONFIDENTIAL.
- THIS DOCUMENT MUST NOT BE ALTERED, REPRODUCED OR DISTRIBUTED WITHOUT PRIOR WRITTEN CONSENT OF THE ORIGINATOR.
- THIS DOCUMENT IS AVAILABLE IN BOTH CONTROLLED (eg. pdf) AND UNCONTROLLED (eg. dwg) FORMATS - UNCONTROLLED FORMATS MUST NOT BE ALTERED - THE ORIGINATOR ACCEPTS NO RESPONSIBILITY FOR ANY DISCREPANCIES ARISING AS A RESULT OF THE ORIGINATOR'S INFORMATION BEING ALTERED BY OTHERS.
- ANY DISCREPANCY MUST BE REPORTED TO THE ORIGINATOR.
- DO NOT SCALE THIS DOCUMENT - USE FIGURED DIMENSIONS ONLY.
- ALL DIMENSIONS MUST BE CHECKED ON SITE PRIOR TO COMMENCEMENT OF ANY RELATED WORKS.
- THIS DOCUMENT MUST BE READ IN CONJUNCTION WITH ALL SUPPORTING DOCUMENTS PRODUCED BY THE ORIGINATOR AND OTHER PROJECT DISCIPLINES.
- THE ORIGINATOR ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF BACKGROUND INFORMATION PROVIDED BY THIRD PARTIES - THIS MUST BE TREATED AS INDICATIVE ONLY.
- USERS OF THIS DOCUMENT ARE RESPONSIBLE FOR CHECKING WHICH REVISION IS CURRENT.
- THE DOCUMENT STATUS 'INFORMATION' OR 'PRELIMINARY' INDICATES THAT THIS DRAWING IS FOR REFERENCE PURPOSES ONLY - THE ORIGINATOR WILL ACCEPT NO RESPONSIBILITY FOR THE COMPLETENESS OF INFORMATION UNDER THIS STATUS.
- THE DOCUMENT STATUS 'RECORD' OR 'AS BUILT' HAS BEEN PREPARED, IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE. THE ORIGINATOR ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THIS 'RECORD' OR 'AS BUILT' DOCUMENT OR FOR ANY ERRORS OR OMISSIONS THAT MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT OF INCORRECT INFORMATION PROVIDED TO THE ORIGINATOR. THOSE RELYING ON THE 'RECORD' OR 'AS BUILT' DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY.

DRAWING NOTES:

CDM REGULATIONS 2015
SIGNIFICANT OR NON-OBVIOUS RISKS AND RISKS WHICH ARE DIFFICULT TO MANAGE ARE IDENTIFIED ON THIS DRAWING USING THE FOLLOWING SYMBOL IDENTIFIED TO THE RIGHT WITH BRIEF ACCOMPANYING TEXT. FOR FURTHER DETAILS OF THE RISKS IDENTIFIED BY DESIGNERS, REFERENCE SHOULD BE MADE TO CDM HAZARD REGISTER.

ISSUED FOR DISCHARGE OF CONDITIONS	06/08/2019	MG
REV	DESCRIPTION	DATE

CLIENT: BICESTER HERITAGE

IN ASSOCIATION WITH:

PROJECT: NEW TECHNICAL SITE

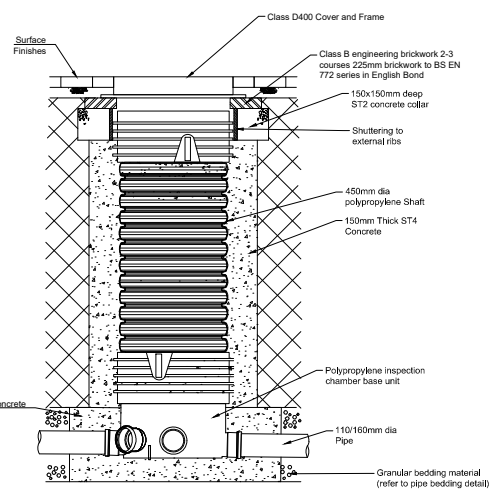
ENG. EP	CSE. SW	ICSE.	SCALE: AS STATED @ A1					
STATUS:			INITIAL ISSUE: 06/08/2019					
PLANNING								
DRAWING No.:	PROJECT:	ORG:	ZONE:	LEVEL:	TYPE:	ROLE:	NUMBER:	REV:
	5002855	RDG	XX	ST	PL	C	0505	-

TITLE: EXISTING SURFACE RUN OFF CATCHMENT

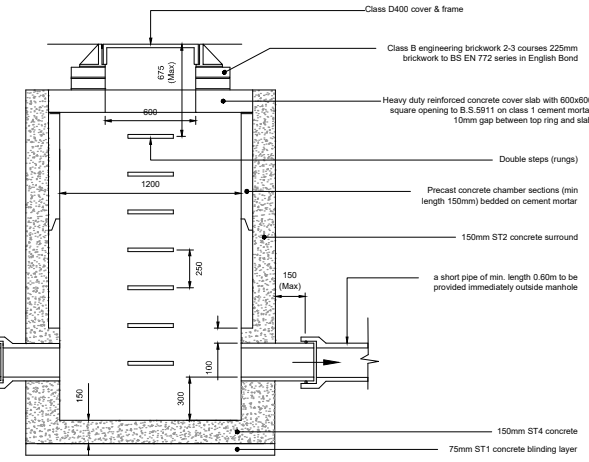
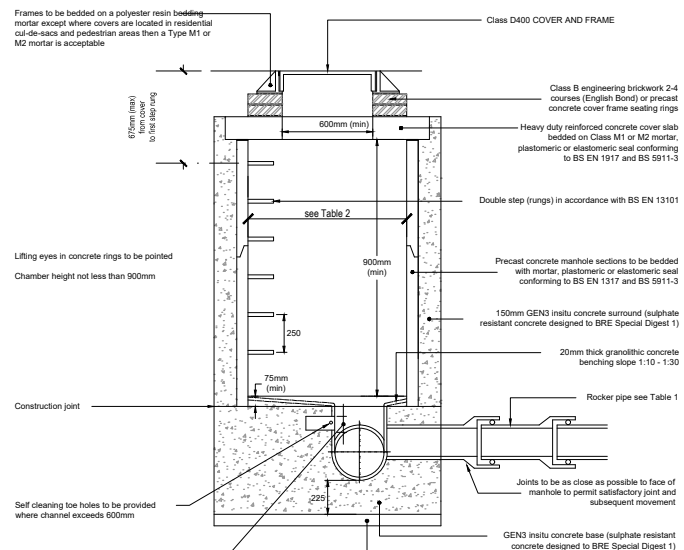
ORIGINATOR: RIDGE PROPERTY & CONSTRUCTION CONSULTANTS

THE COWYARDS
BLENHEIM PARK
OXFORD ROAD
WOODSTOCK, OX20 1QR

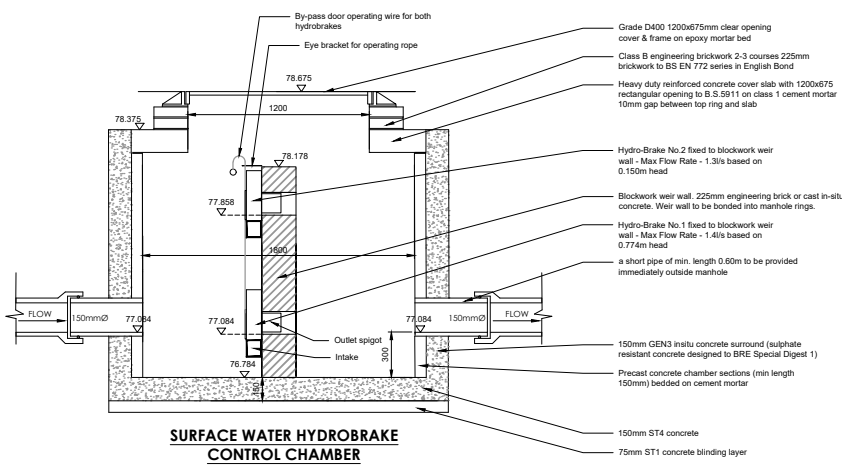
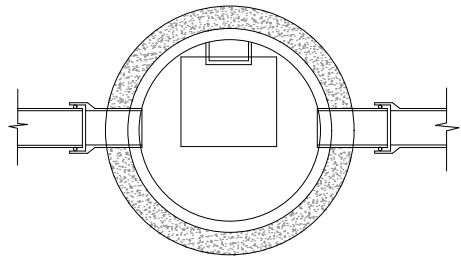
TEL: 01993 815000
WWW.RIDGE.CO.UK



POLYPROPYLENE INSPECTION CHAMBER (PPIC)



TYPICAL CATCHPIT MANHOLE DETAIL



SURFACE WATER HYDROBRAKE CONTROL CHAMBER

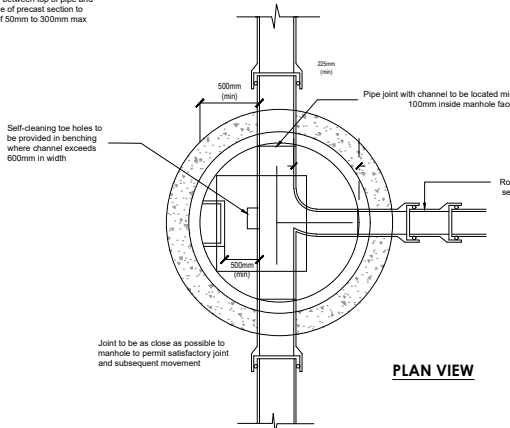
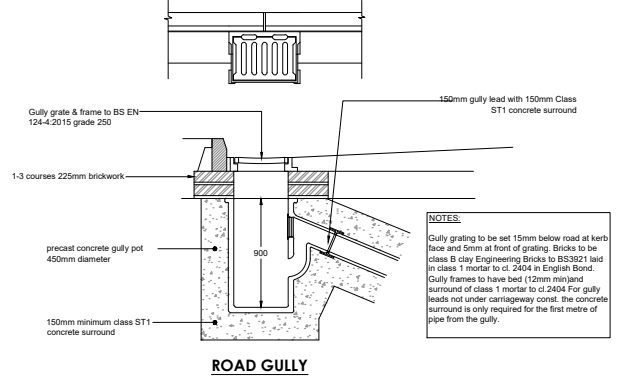
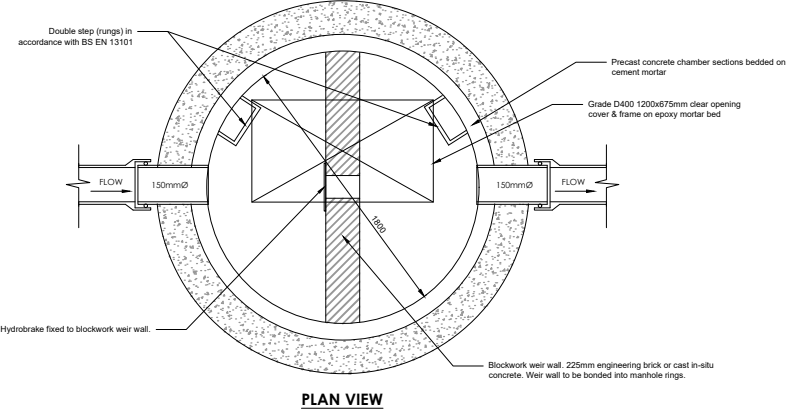


Table 1

Pipe Ø (mm)	Rocker pipe length (m)
150 - 600	0.6
600 - 750	1.0
over 750	1.25

Table 2

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



ROAD GULLY

NOTES:
Gully grating to be set 15mm below road at kerb face and 5mm at front of grating. Bricks to be class B clay Engineering Bricks to BS3921 laid in class 1 mortar to cl. 2504 in English Bond. Gully frames to have bed (12mm min) sand surround of class 1 mortar to cl.2504. For gully leads not under carriageway cover, the concrete surround is only required for the first metre of pipe from the gully.

DISCLAIMER NOTES:

- THIS DOCUMENT IS COPYRIGHT OF THE ORIGINATOR AND MUST BE TREATED AS CONFIDENTIAL.
- THIS DOCUMENT MUST NOT BE ALTERED, REPRODUCED OR DISTRIBUTED WITHOUT PRIOR WRITTEN CONSENT OF THE ORIGINATOR.
- THIS DOCUMENT MUST NOT BE ALTERED - THE ORIGINATOR ACCEPTS NO RESPONSIBILITY FOR ANY DISCREPANCIES ARISING AS A RESULT OF THE ORIGINATOR'S INFORMATION BEING ALTERED BY OTHERS.
- ANY DISCREPANCY MUST BE REPORTED TO THE ORIGINATOR.
- DO NOT SCALE THIS DOCUMENT - USE FIGURED DIMENSIONS ONLY.
- ALL DIMENSIONS MUST BE CHECKED ON SITE PRIOR TO COMMENCEMENT OF ANY RELATED WORKS.
- THIS DOCUMENT MUST BE READ IN CONJUNCTION WITH ALL SUPPORTING DOCUMENTS PRODUCED BY THE ORIGINATOR AND OTHER PROJECT DISCIPLINES.
- THE ORIGINATOR ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF BACKGROUND INFORMATION PRODUCED BY THIRD PARTIES - THIS MUST BE TREATED AS INDICATIVE ONLY.
- USERS OF THIS DOCUMENT ARE RESPONSIBLE FOR CHECKING WHICH REVISION IS CURRENT.
- THE DOCUMENT STATUS "INFORMATION" OR "PRELIMINARY" INDICATES THAT THIS DRAWING IS FOR REFERENCE PURPOSES ONLY - THE ORIGINATOR WILL ACCEPT NO RESPONSIBILITY FOR THE COMPLETENESS OF INFORMATION UNDER THIS STATUS.
- THE DOCUMENT STATUS "RECORD" OR "AS BUILT" HAS BEEN PREPARED, IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE ORIGINATOR ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THIS "RECORD" OR "AS BUILT" DOCUMENT OR FOR ANY ERRORS OR OMISSIONS THAT MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT OF INCORRECT INFORMATION PROVIDED TO THE ORIGINATOR. THOSE RELYING ON THE "RECORD" OR "AS BUILT" DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY.

DRAWING NOTES:
CDM REGULATIONS 2015
SIGNIFICANT OR NON-OBVIOUS RISKS AND RISKS WHICH ARE DIFFICULT TO MANAGE ARE IDENTIFIED ON THIS DRAWING USING THE FOLLOWING SYMBOL IDENTIFIED TO THE RIGHT WITH BRIEF ACCOMPANYING TEXT. FOR FURTHER DETAILS OF THE RISKS IDENTIFIED BY DESIGNERS, REFERENCE SHOULD BE MADE TO CDM HAZARD REGISTER.

REV	DESCRIPTION	DATE	BY	CHKD
A	PLANNING CONDITION DISCHARGE	14/08/2019	MG	SW
-	TENDER ISSUE	13/11/2018	MG	SW



THE COWYARDS
BLENHHEIM PARK
OXFORD ROAD
WOODSTOCK, OX20 1QR
TEL: 01993 815000
WWW.RIDGE.CO.UK

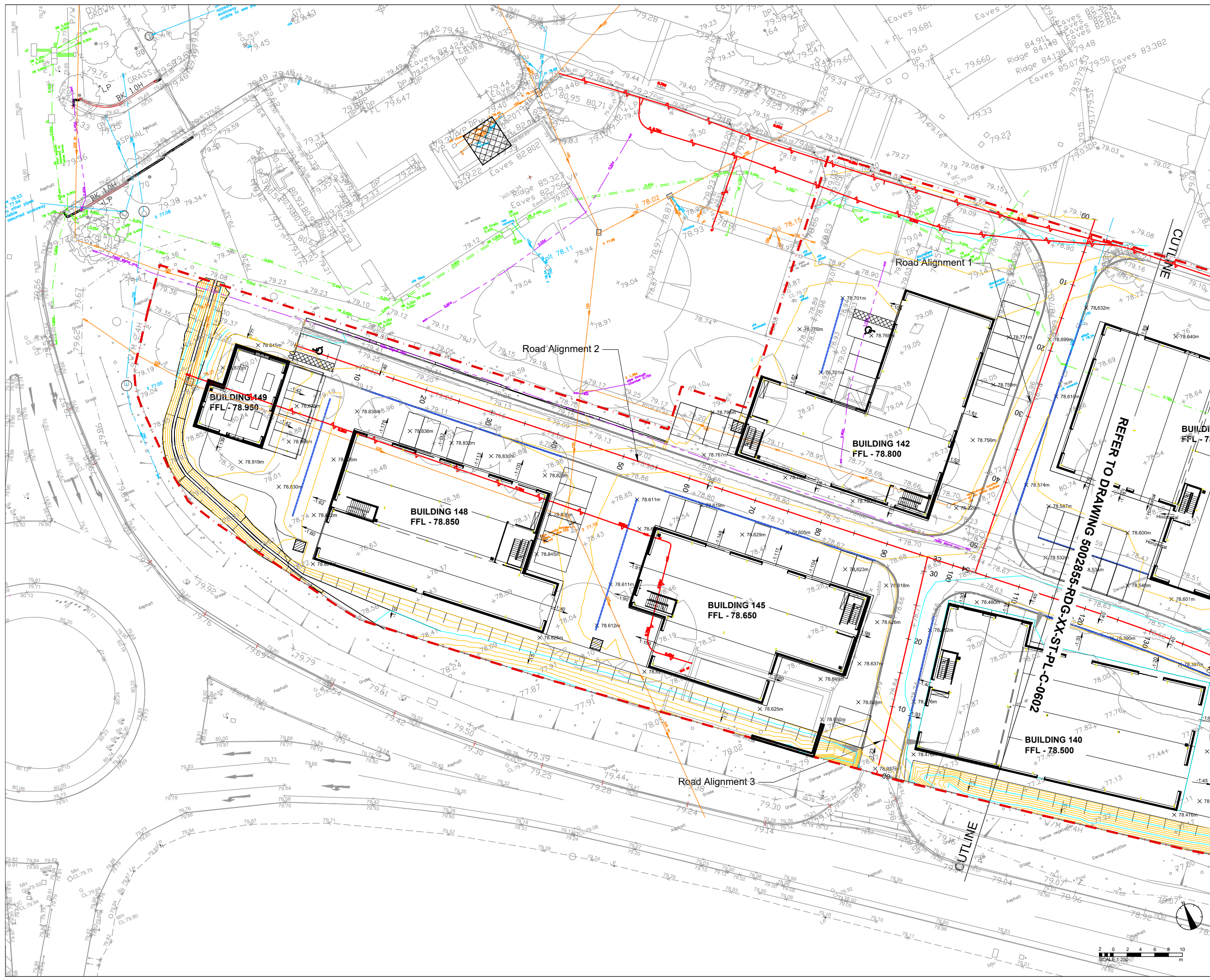
CLIENT:
BICESTER HERITAGE

IN ASSOCIATION WITH:
NEW TECHNICAL SITE

TITLE:
DRAINAGE CONSTRUCTION DETAILS (SHEET 2 OF 2)

DRAWN BY: MG SCALE: NTS @ A1
CHECKED BY: SW DATE: 13/11/2018
STATUS: **PLANNING**

PROJECT:	ORG:	ZONE:	LEVEL:	TYPE:	ROLE:	NUMBER:	REV:
5002855	RDG	XX	XX	DT	C	0511	A



DISCLAIMER NOTES:

- THIS DOCUMENT IS COPYRIGHT OF THE ORIGINATOR AND MUST BE TREATED AS CONFIDENTIAL.
- THIS DOCUMENT MUST NOT BE ALTERED, REPRODUCED OR DISTRIBUTED WITHOUT PRIOR WRITTEN CONSENT OF THE ORIGINATOR.
- THIS DOCUMENT MUST NOT BE ALTERED - THE ORIGINATOR ACCEPTS NO RESPONSIBILITY FOR ANY DISCREPANCIES ARISING AS A RESULT OF THE ORIGINATOR'S INFORMATION BEING ALTERED BY OTHERS.
- ANY DISCREPANCY MUST BE REPORTED TO THE ORIGINATOR.
- DO NOT SCALE THIS DOCUMENT - USE FIGURED DIMENSIONS ONLY.
- ALL DIMENSIONS MUST BE CHECKED ON SITE PRIOR TO COMMENCEMENT OF ANY RELATED WORKS.
- THIS DOCUMENT MUST BE READ IN CONJUNCTION WITH ALL SUPPORTING DOCUMENTS PRODUCED BY THE ORIGINATOR AND OTHER PROJECT DISCIPLINES.
- THE ORIGINATOR ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF BACKGROUND INFORMATION PRODUCED BY THIRD PARTIES - THIS MUST BE TREATED AS INDICATIVE ONLY.
- USERS OF THIS DOCUMENT ARE RESPONSIBLE FOR CHECKING WHICH REVISION IS CURRENT.
- THE DOCUMENT STATUS "INFORMATION" OR "PRELIMINARY" INDICATES THAT THIS DRAWING IS FOR REFERENCE PURPOSES ONLY - THE ORIGINATOR WILL ACCEPT NO RESPONSIBILITY FOR THE COMPLETENESS OF INFORMATION UNDER THIS STATUS.
- THE DOCUMENT STATUS "RECORD" OR "AS BUILT" HAS BEEN PREPARED, IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE ORIGINATOR ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THIS "RECORD" OR "AS BUILT" DOCUMENT OR FOR ANY ERRORS OR OMISSIONS THAT MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT OF INCORRECT INFORMATION PROVIDED TO THE ORIGINATOR. THOSE RELYING ON THE "RECORD" OR "AS BUILT" DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY.

DRAWING NOTES:

CDM REGULATIONS 2015
 SIGNIFICANT OR NON-OBSVIOUS RISKS AND RISKS WHICH ARE DIFFICULT TO MANAGE ARE IDENTIFIED ON THIS DRAWING USING THE FOLLOWING SYMBOL IDENTIFIED TO THE RIGHT WITH BRIEF ACCOMPANYING TEXT. FOR FURTHER DETAILS OF THE RISKS IDENTIFIED BY DESIGNERS, REFERENCE SHOULD BE MADE TO CDM HAZARD REGISTER.

KEY:

- SITE BOUNDARY
- MAJOR CONTOUR (500MM)
- MINOR CONTOUR (100MM)
- ROAD CENTRELINE ALIGNMENT
- PROPOSED LINEAR DRAIN
- SPOT LEVEL
- GRADIENT

NOTES:

- REFER TO DRAWING 5002855-RDG-XX-SE-C-0604 FOR DETAILS OF THE ROAD LONGSECTIONS

B	PLANNING CONDITIONS DISCHARGE	16/08/2019	MG
A	GRADING SOUTH OF SITE AMENDED	21/11/2019	MG
-	FIRST ISSUE	09/11/2018	MG
REV	DESCRIPTION	DATE	DRAWN

ORIGINATOR:



THE COWYARDS
 BLENHEIM PARK
 OXFORD ROAD
 WOODSTOCK, OX20 1QR
 TEL: 01993 815000
 WWW.RIDGE.CO.UK

CLIENT:
BICESTER HERITAGE

IN ASSOCIATION WITH:

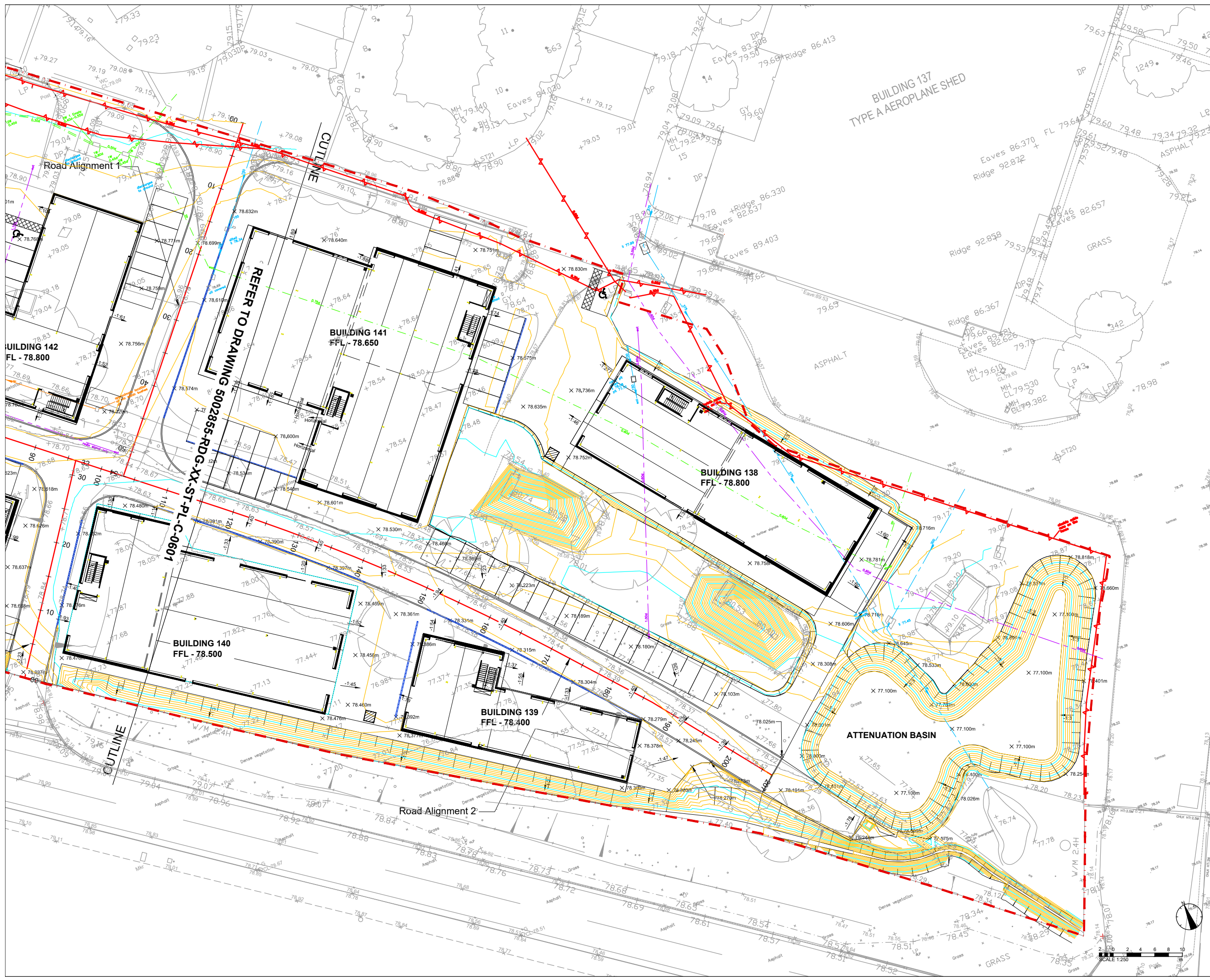
PROJECT:
NEW TECHNICAL SITE

TITLE:
PROPOSED LEVELS LAYOUT SHEET 1 OF 2

ENG:	MG	CSE:	SW	ICSE:		SCALE:	1:250	@	A1
STATUS:						INITIAL ISSUE:	09/11/2018		

PLANNING

DRAWING NO:	PROJECT:	ORG:	ZONE:	LEVEL:	TYPE:	ROLE:	NUMBER:	REV:
	5002855	RDG	XX	ST	PL	C	0601	B



DISCLAIMER NOTES:

- THIS DOCUMENT IS COPYRIGHT OF THE ORIGINATOR AND MUST BE TREATED AS CONFIDENTIAL.
- THIS DOCUMENT MUST NOT BE ALTERED, REPRODUCED OR DISTRIBUTED WITHOUT PRIOR WRITTEN CONSENT OF THE ORIGINATOR.
- THIS DOCUMENT MUST NOT BE ALTERED - THE ORIGINATOR ACCEPTS NO RESPONSIBILITY FOR ANY DISCREPANCIES ARISING AS A RESULT OF THE ORIGINATOR'S INFORMATION BEING ALTERED BY OTHERS.
- ANY DISCREPANCY MUST BE REPORTED TO THE ORIGINATOR.
- DO NOT SCALE THIS DOCUMENT - USE FIGURED DIMENSIONS ONLY.
- ALL DIMENSIONS MUST BE CHECKED ON SITE PRIOR TO COMMENCEMENT OF ANY RELATED WORKS.
- THIS DOCUMENT MUST BE READ IN CONJUNCTION WITH ALL SUPPORTING DOCUMENTS PRODUCED BY THE ORIGINATOR AND OTHER PROJECT DISCIPLINES.
- THE ORIGINATOR ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF BACKGROUND INFORMATION PRODUCED BY THIRD PARTIES - THIS MUST BE TREATED AS INDICATIVE ONLY.
- USERS OF THIS DOCUMENT ARE RESPONSIBLE FOR CHECKING WHICH REVISION IS CURRENT.
- THE DOCUMENT STATUS "INFORMATION" OR "PRELIMINARY" INDICATES THAT THIS DRAWING IS FOR REFERENCE PURPOSES ONLY - THE ORIGINATOR WILL ACCEPT NO RESPONSIBILITY FOR THE COMPLETENESS OF INFORMATION UNDER THIS STATUS.
- THE DOCUMENT STATUS "RECORD" OR "AS BUILT" HAS BEEN PREPARED, IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE ORIGINATOR ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THIS "RECORD" OR "AS BUILT" DOCUMENT OR FOR ANY ERRORS OR OMISSIONS THAT MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT OF INCORRECT INFORMATION PROVIDED TO THE ORIGINATOR. THOSE RELYING ON THE "RECORD" OR "AS BUILT" DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY.

DRAWING NOTES:

CDM REGULATIONS 2015
 SIGNIFICANT OR NON-OBVIOUS RISKS AND RISKS WHICH ARE DIFFICULT TO MANAGE ARE IDENTIFIED ON THIS DRAWING USING THE FOLLOWING SYMBOL IDENTIFIED TO THE RIGHT WITH BRIEF ACCOMPANYING TEXT. FOR FURTHER DETAILS OF THE RISKS IDENTIFIED BY DESIGNERS, REFERENCE SHOULD BE MADE TO CDM HAZARD REGISTER.

- KEY:**
- - - SITE BOUNDARY
 - MAJOR CONTOUR (500MM)
 - MINOR CONTOUR (100MM)
 - ROAD CENTRELINE ALIGNMENT
 - PROPOSED LINEAR DRAIN
 - X 78.816m SPOT LEVEL
 - 1:85.3 GRADIENT

NOTES:

- REFER TO DRAWING 5002855-RDG-XX-ST-PL-C-0604 FOR DETAILS OF THE ROAD LONGSECTIONS

B	PLANNING CONDITIONS DISCHARGE	16/08/2019	MG
A	GRADING SOUTH OF SITE AMENDED	21/11/2019	MG
-	FIRST ISSUE	09/11/2018	MG
REV	DESCRIPTION	DATE	DRAWN

ORIGINATOR:

RIDGE
PROPERTY & CONSTRUCTION CONSULTANTS

THE COWYARDS
 BLENEHEIM PARK
 OXFORD ROAD
 WOODSTOCK, OX20 1QR

TEL: 01993 815000
 WWW.RIDGE.CO.UK

CLIENT:
BICESTER HERITAGE

IN ASSOCIATION WITH:

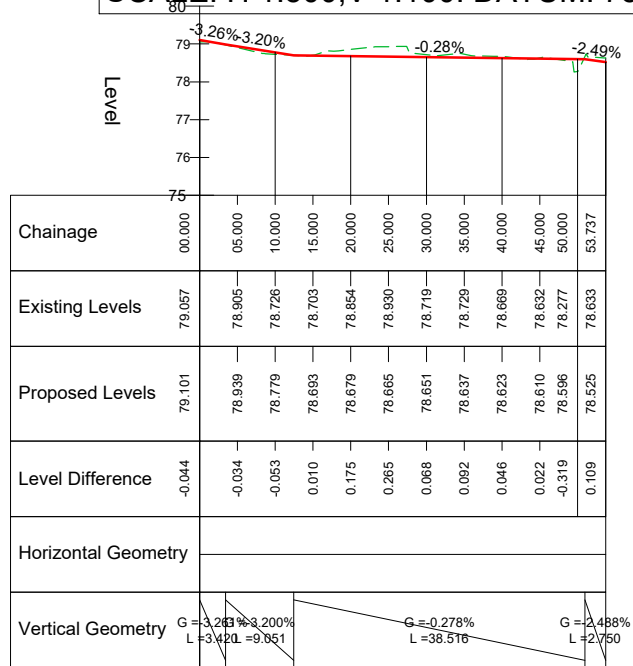
PROJECT:
NEW TECHNICAL SITE

TITLE:
PROPOSED LEVELS LAYOUT SHEET 2 OF 2

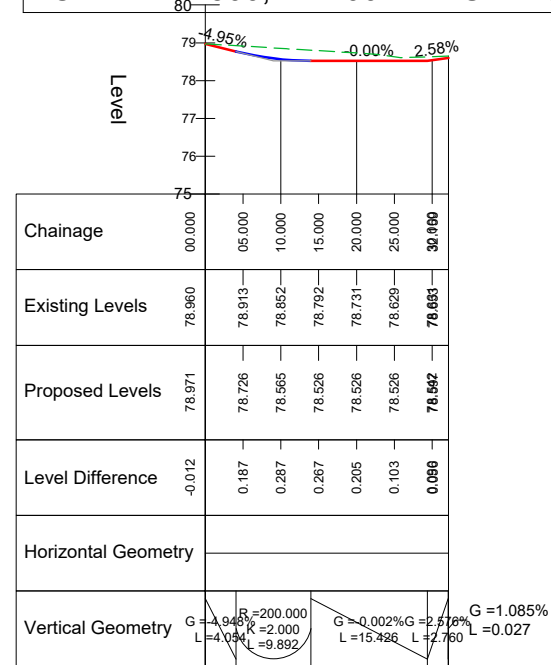
ENG:	MG	CSE:	SW	ICSE:		SCALE:	1:250	@	A1
STATUS:					INITIAL ISSUE:	09/11/2018			

PLANNING									
DRAWING NO:	PROJECT:	ORG:	ZONE:	LEVEL:	TYPE:	ROLE:	NUMBER:	REV:	
	5002855	RDG	XX	ST	PL	C	0602	B	

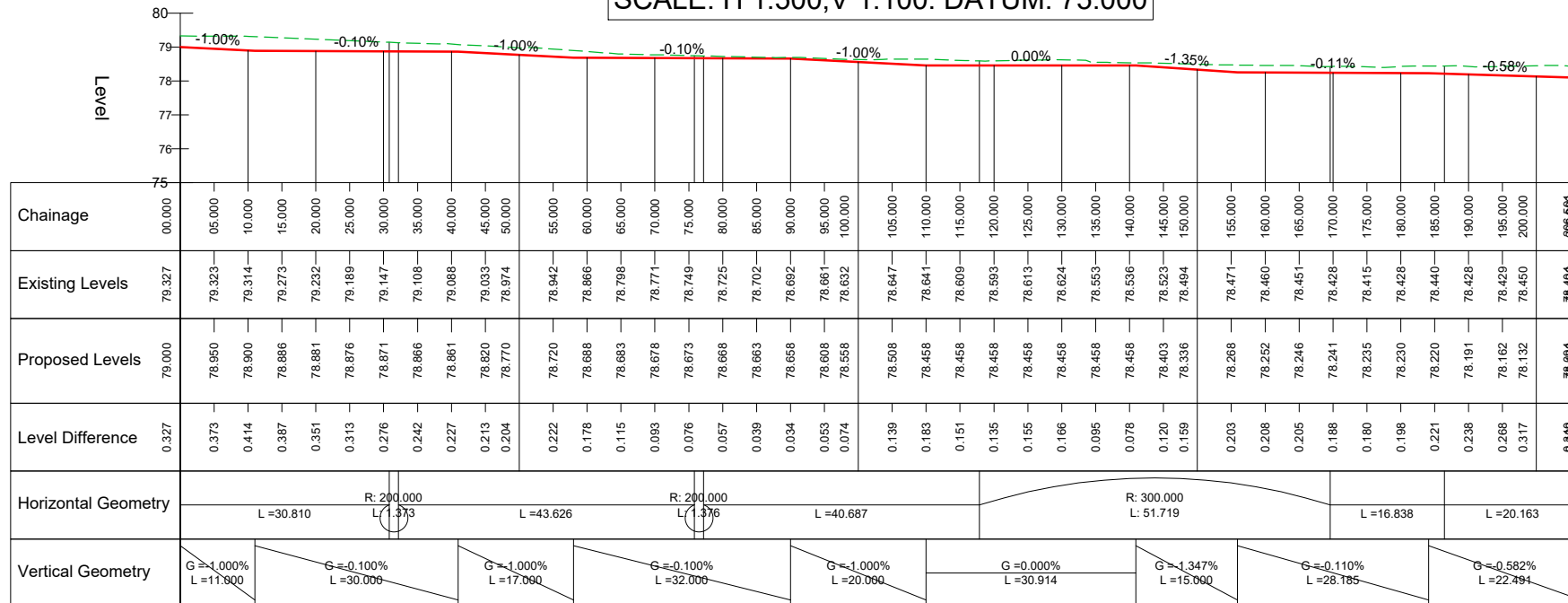
ALIGNMENT - (1) - LONGSECTION
SCALE: H 1:500, V 1:100. DATUM: 75.000



ALIGNMENT - (3) - LONGSECTION
SCALE: H 1:500, V 1:100. DATUM: 75.000



ALIGNMENT - (2) - LONGSECTION
SCALE: H 1:500, V 1:100. DATUM: 75.000



DISCLAIMER NOTES:

- THIS DOCUMENT IS COPYRIGHT OF THE ORIGINATOR AND MUST BE TREATED AS CONFIDENTIAL.
- THIS DOCUMENT MUST NOT BE ALTERED, REPRODUCED OR DISTRIBUTED WITHOUT PRIOR WRITTEN CONSENT OF THE ORIGINATOR.
- THIS DOCUMENT MUST NOT BE ALTERED - THE ORIGINATOR ACCEPTS NO RESPONSIBILITY FOR ANY DISCREPANCIES ARISING AS A RESULT OF THE ORIGINATOR'S INFORMATION BEING ALTERED BY OTHERS.
- ANY DISCREPANCY MUST BE REPORTED TO THE ORIGINATOR.
- DO NOT SCALE THIS DOCUMENT - USE FIGURED DIMENSIONS ONLY.
- ALL DIMENSIONS MUST BE CHECKED ON SITE PRIOR TO COMMENCEMENT OF ANY RELATED WORKS.
- THIS DOCUMENT MUST BE READ IN CONJUNCTION WITH ALL SUPPORTING DOCUMENTS PRODUCED BY THE ORIGINATOR AND OTHER PROJECT DISCIPLINES.
- THE ORIGINATOR ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF BACKGROUND INFORMATION PRODUCED BY THIRD PARTIES - THIS MUST BE TREATED AS INDICATIVE ONLY.
- USERS OF THIS DOCUMENT ARE RESPONSIBLE FOR CHECKING WHICH REVISION IS CURRENT.
- THE DOCUMENT STATUS "INFORMATION" OR "PRELIMINARY" INDICATES THAT THIS DRAWING IS FOR REFERENCE PURPOSES ONLY - THE ORIGINATOR WILL ACCEPT NO RESPONSIBILITY FOR THE COMPLETENESS OF INFORMATION UNDER THIS STATUS.
- THE DOCUMENT STATUS "RECORD" OR "AS BUILT" HAS BEEN PREPARED, IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS, WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE ORIGINATOR ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THIS "RECORD" OR "AS BUILT" DOCUMENT OR FOR ANY ERRORS OR OMISSIONS THAT MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT OF INCORRECT INFORMATION PROVIDED TO THE ORIGINATOR. THOSE RELYING ON THE "RECORD" OR "AS BUILT" DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY.

DRAWING NOTES:

CDM REGULATIONS 2015
SIGNIFICANT OR NON-OBVIOUS RISKS AND RISKS WHICH ARE DIFFICULT TO MANAGE ARE IDENTIFIED ON THIS DRAWING USING THE FOLLOWING SYMBOL IDENTIFIED TO THE RIGHT WITH BRIEF ACCOMPANYING TEXT. FOR FURTHER DETAILS OF THE RISKS IDENTIFIED BY DESIGNERS, REFERENCE SHOULD BE MADE TO CDM HAZARD REGISTER.

KEY:

--- EXISTING GROUND
--- PROPOSED GROUND

PLANNING CONDITION DISCHARGE	16/08/2019	MG
FIRST ISSUE	09/11/2018	MG
REV DESCRIPTION	DATE	DRAWN

ORIGINATOR:

THE COWYARDS
BLENHHEIM PARK
OXFORD ROAD
WOODSTOCK, OX20 1QR
TEL: 01993 815000
WWW.RIDGE.CO.UK

CLIENT:
BICESTER HERITAGE

IN ASSOCIATION WITH:

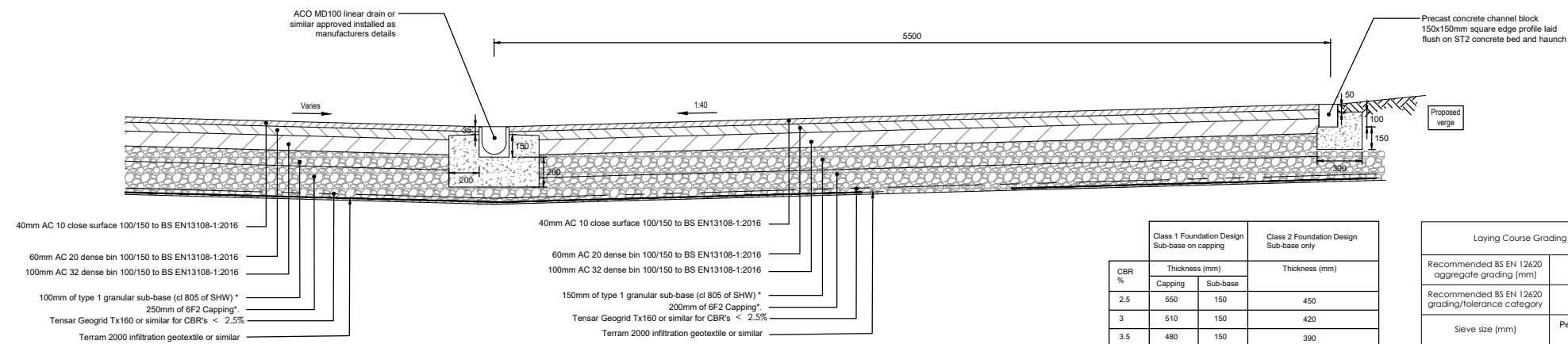
PROJECT:
NEW TECHNICAL SITE

TITLE:
PROPOSED ROAD LONG SECTIONS

ENG: MG	CSE: SW	ICSE:	SCALE: 1:250	@ A1
			INITIAL ISSUE: 09/11/2018	

STATUS:
PLANNING

PROJECT:	ORG:	ZONE:	LEVEL:	TYPE:	ROLE:	NUMBER:	REV:
5002855	RDG	XX	XX	SE	C	0604	A



**SECTION A-A
INDICATIVE ROAD SECTION**

* A CBR value of >5% has been considered for design purposes. In-situ CBR tests should be undertaken on the formation to verify the depth of sub-base and capping and adjusted in accordance with Table 1 for road areas and Table 2, parking bays and pedestrian areas.

CBR %	Class 1 Foundation Design Sub-base on capping		Class 2 Foundation Design Sub-base only
	Capping	Sub-base	Thickness (mm)
2.5	550	150	450
3	510	150	420
3.5	480	150	390
4	440	150	360
4.5	420	150	350
5	390	150	320
>5	200	150	200

TABLE 1
(Road Foundation Design)

Laying Course Grading Requirements	
Recommended BS EN 12620 aggregate grading (mm)	2/6.3
Recommended BS EN 12620 grading/tolerance category	Gc80/20
Sieve size (mm)	Percentage by mass passing ISO 565 sieve
31.5	
20	
14	100
10	98 to 100
6.3	80 to 99
4	
2	0 to 20
1	0 to 5
0.063	0 to 2

Table 3

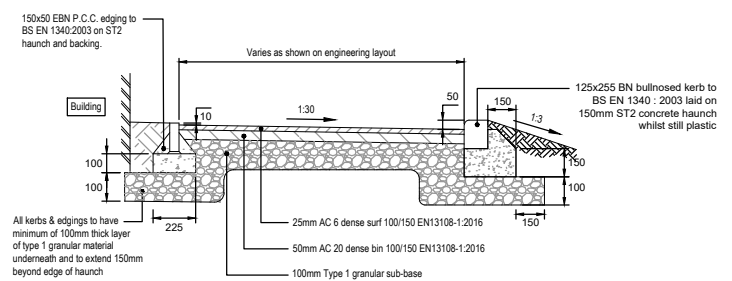
CBR %	Class 1 Foundation Design Sub-base on capping		Class 2 Foundation Design Sub-base only
	Capping	Sub-base	Thickness (mm)
2.5	600	100	450
3	560	100	420
3.5	530	100	390
4	490	100	360
4.5	470	100	350
5	440	100	320
>5	250	100	200

TABLE 2
(Parking Bay/Pedestrian Area around building Foundation Design)

- These tables have been completed for "Average" conditions. Where water tables are high, where site traffic will be excessive, or where construction conditions will be poor (wet conditions/poor drainage) then HA document Interim Advice Note 73/06 should be consulted for greater detail.
- It is possible to interpolate between CBR values shown in the table to obtain thickness of capping/sub-base. The thicknesses obtained should be rounded up to the nearest 10mm.
- Minimum construction of 450mm to avoid frost susceptibility.
- For CBR <2.5% a subgrade improvement layer must be provided.

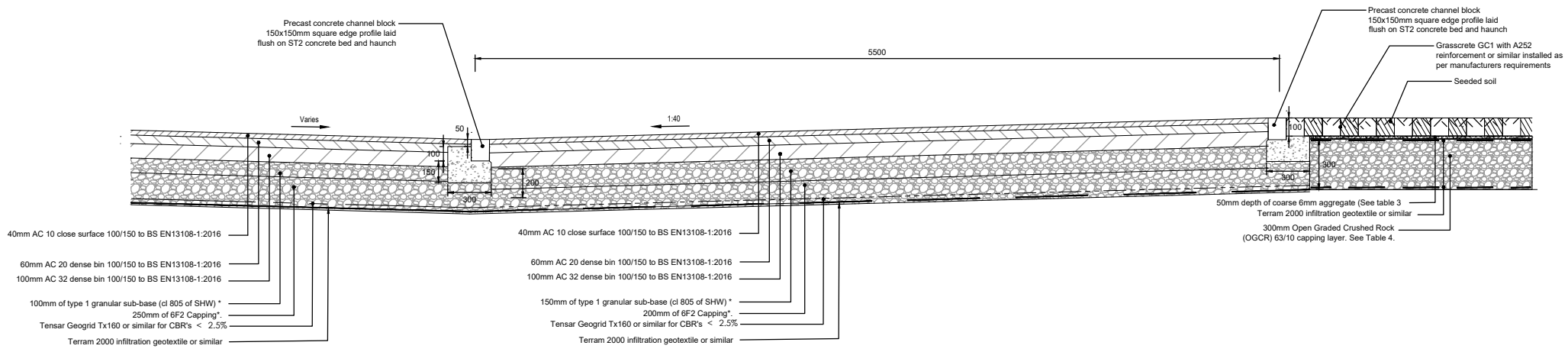
OGCR Sub-Base Grading Requirements	
Recommended BS EN 12620 aggregate grading (mm)	4/20
Recommended BS EN 12620 grading/tolerance category	Gc80/20 GTc20/15
Sieve size (mm)	Percentage by mass passing ISO 565 sieve
31.5	98 to 100
20	90-99
14	
10	25 to 70
6.3	
4	0 to 15
3.15	
2	0 to 5

Table 4



**SECTION B-B
INDICATIVE SECTION THROUGH MEWP ACCESS**

* A CBR value of 5% has been considered for design purposes. In-situ CBR tests should be undertaken on the formation to verify the depth of sub-base and capping and adjusted in accordance with table 1.



**SECTION C-C
INDICATIVE ROAD+GRASSBLOCK SECTION**

DISCLAIMER NOTES:

- THIS DOCUMENT IS COPYRIGHT OF THE ORIGINATOR AND MUST BE TREATED AS CONFIDENTIAL.
- THIS DOCUMENT MUST NOT BE ALTERED, REPRODUCED OR DISTRIBUTED WITHOUT PRIOR WRITTEN CONSENT OF THE ORIGINATOR.
- THIS DOCUMENT MUST NOT BE ALTERED - THE ORIGINATOR ACCEPTS NO RESPONSIBILITY FOR ANY DISCREPANCIES ARISING AS A RESULT OF THE ORIGINATOR'S INFORMATION BEING ALTERED BY OTHERS.
- ANY DISCREPANCY MUST BE REPORTED TO THE ORIGINATOR.
- DO NOT SCALE THIS DOCUMENT - USE FIGURED DIMENSIONS ONLY.
- ALL DIMENSIONS MUST BE CHECKED ON SITE PRIOR TO COMMENCEMENT OF ANY RELATED WORKS.
- THIS DOCUMENT MUST BE READ IN CONJUNCTION WITH ALL SUPPORTING DOCUMENTS PRODUCED BY THE ORIGINATOR AND OTHER PROJECT DISCIPLINES.
- THE ORIGINATOR ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF BACKGROUND INFORMATION PRODUCED BY THIRD PARTIES - THIS MUST BE TREATED AS INDICATIVE ONLY.
- USERS OF THIS DOCUMENT ARE RESPONSIBLE FOR CHECKING WHICH REVISION IS CURRENT.
- THE DOCUMENT STATUS "INFORMATION" OR "PRELIMINARY" INDICATES THAT THIS DRAWING IS FOR REFERENCE PURPOSES ONLY - THE ORIGINATOR WILL ACCEPT NO RESPONSIBILITY FOR THE COMPLETENESS OF INFORMATION UNDER THIS STATUS.
- THE DOCUMENT STATUS "RECORD" OR "AS BUILT" HAS BEEN PREPARED, IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE ORIGINATOR ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THIS "RECORD" OR "AS BUILT" DOCUMENT OR FOR ANY ERRORS OR OMISSIONS THAT MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT OF INCORRECT INFORMATION PROVIDED TO THE ORIGINATOR. THOSE RELYING ON THE "RECORD" OR "AS BUILT" DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY.

DRAWING NOTES:

CDM REGULATIONS 2015
SIGNIFICANT OR NON-OBVIOUS RISKS AND RISKS WHICH ARE DIFFICULT TO MANAGE ARE IDENTIFIED ON THIS DRAWING USING THE FOLLOWING SYMBOL IDENTIFIED TO THE RIGHT WITH BRIEF ACCOMPANYING TEXT. FOR FURTHER DETAILS OF THE RISKS IDENTIFIED BY DESIGNERS, REFERENCE SHOULD BE MADE TO CDM HAZARD REGISTER.

A	PLANNING CONDITION DISCHARGE	16/08/2019	MG
-	FIRST ISSUE	09/11/2018	MG
REV	DESCRIPTION	DATE	DRAWN

ORIGINATOR:

RIDGE
PROPERTY & CONSTRUCTION CONSULTANTS

THE COWYARDS
BLENHHEIM PARK
OXFORD ROAD
WOODSTOCK, OX20 1QR

TEL: 01993 815000
WWW.RIDGE.CO.UK

CLIENT:
BICESTER HERITAGE

IN ASSOCIATION WITH:

PROJECT:
NEW TECHNICAL SITE

TITLE:
**SURFACE FINISHES
CONSTRUCTION DETAILS**

ENG:	CSE:	ICSE:	SCALE: NTS	@ A1
MG	SW		INITIAL ISSUE: 09/11/2018	

STATUS:
PLANNING

PROJECT:	ORG:	ZONE:	LEVEL:	TYPE:	ROLE:	NUMBER:	REV:
5002855	RDG	XX	XX	DT	C	0710	A