

LONGITUDINAL RIVER SECTION - RIVER WITHAM
 Horizontal Scale = 1:2500
 Vertical Scale = 1:100

NOTES:
 1. A REPORT HAS BEEN PRODUCED FOR THIS SURVEY.
 2. ORDNANCE SURVEY MATERIAL REPRODUCED WITH THE PERMISSION OF THE CONTROLLER OF H.M.S.O.
 3. THIS DRAWING PLOTS TO SCALE ON A0 SIZE PAPER

SURVEY LEGEND	
AS	AS BENCH
BS	BENCH MARK
CH	CHANGING POINT
CP	CROSSING POINT
DB	DEEP BED
DL	DEEP LOCAL
DR	DEEP RIVER
DS	DEEP SAND
DT	DEEP TIDE
DU	DEEP UNDER
EV	EVIDENCE
FL	FLAG
FM	FLAG MARK
FR	FLAG RIVER
FS	FLAG SAND
FT	FLAG TIDE
FU	FLAG UNDER
GA	GAUGE
GB	GAUGE BENCH
GC	GAUGE CHANGING POINT
GD	GAUGE DEEP
GE	GAUGE EVIDENCE
GF	GAUGE FLAG
GG	GAUGE GAUGE
GH	GAUGE HARD
GI	GAUGE INTER
GJ	GAUGE JUNCTION
GK	GAUGE KNOT
GL	GAUGE LOCAL
GM	GAUGE MARK
GN	GAUGE NORTH
GO	GAUGE ODD
GP	GAUGE POINT
GQ	GAUGE QUART
GR	GAUGE RIVER
GS	GAUGE SAND
GT	GAUGE TIDE
GU	GAUGE UNDER
GV	GAUGE VERTICAL
GW	GAUGE WEST
GX	GAUGE WEST
GY	GAUGE WEST
GZ	GAUGE WEST
HA	HARD
HB	HARD BENCH
HC	HARD CHANGING POINT
HD	HARD DEEP
HE	HARD EVIDENCE
HF	HARD FLAG
HG	HARD GAUGE
HH	HARD HARD
HI	HARD INTER
HJ	HARD JUNCTION
HK	HARD KNOT
HL	HARD LOCAL
HM	HARD MARK
HN	HARD NORTH
HO	HARD ODD
HP	HARD POINT
HQ	HARD QUART
HR	HARD RIVER
HS	HARD SAND
HT	HARD TIDE
HU	HARD UNDER
HV	HARD VERTICAL
HW	HARD WEST
HX	HARD WEST
HY	HARD WEST
HZ	HARD WEST
IA	INTER
IB	INTER BENCH
IC	INTER CHANGING POINT
ID	INTER DEEP
IE	INTER EVIDENCE
IF	INTER FLAG
IG	INTER GAUGE
IH	INTER HARD
II	INTER INTER
IJ	INTER JUNCTION
IK	INTER KNOT
IL	INTER LOCAL
IM	INTER MARK
IN	INTER NORTH
IO	INTER ODD
IP	INTER POINT
IQ	INTER QUART
IR	INTER RIVER
IS	INTER SAND
IT	INTER TIDE
IU	INTER UNDER
IV	INTER VERTICAL
IW	INTER WEST
IX	INTER WEST
IY	INTER WEST
IZ	INTER WEST
JA	JUNCTION
JB	JUNCTION BENCH
JC	JUNCTION CHANGING POINT
JD	JUNCTION DEEP
JE	JUNCTION EVIDENCE
JF	JUNCTION FLAG
JG	JUNCTION GAUGE
JH	JUNCTION HARD
JI	JUNCTION INTER
JJ	JUNCTION JUNCTION
JK	JUNCTION KNOT
JL	JUNCTION LOCAL
JM	JUNCTION MARK
JN	JUNCTION NORTH
JO	JUNCTION ODD
JP	JUNCTION POINT
JQ	JUNCTION QUART
JR	JUNCTION RIVER
JS	JUNCTION SAND
JT	JUNCTION TIDE
JU	JUNCTION UNDER
JV	JUNCTION VERTICAL
JW	JUNCTION WEST
JX	JUNCTION WEST
JY	JUNCTION WEST
JZ	JUNCTION WEST
KA	KNOT
KB	KNOT BENCH
KC	KNOT CHANGING POINT
KD	KNOT DEEP
KE	KNOT EVIDENCE
KF	KNOT FLAG
KG	KNOT GAUGE
KH	KNOT HARD
KI	KNOT INTER
KJ	KNOT JUNCTION
KK	KNOT KNOT
KL	KNOT LOCAL
KM	KNOT MARK
KN	KNOT NORTH
KO	KNOT ODD
KP	KNOT POINT
KQ	KNOT QUART
KR	KNOT RIVER
KS	KNOT SAND
KT	KNOT TIDE
KU	KNOT UNDER
KV	KNOT VERTICAL
KW	KNOT WEST
KX	KNOT WEST
KY	KNOT WEST
KZ	KNOT WEST
LA	LOCAL
LB	LOCAL BENCH
LC	LOCAL CHANGING POINT
LD	LOCAL DEEP
LE	LOCAL EVIDENCE
LF	LOCAL FLAG
LG	LOCAL GAUGE
LH	LOCAL HARD
LI	LOCAL INTER
LJ	LOCAL JUNCTION
LK	LOCAL KNOT
LL	LOCAL LOCAL
LM	LOCAL MARK
LN	LOCAL NORTH
LO	LOCAL ODD
LP	LOCAL POINT
LQ	LOCAL QUART
LR	LOCAL RIVER
LS	LOCAL SAND
LT	LOCAL TIDE
LU	LOCAL UNDER
LV	LOCAL VERTICAL
LW	LOCAL WEST
LX	LOCAL WEST
LY	LOCAL WEST
LZ	LOCAL WEST
MA	MARK
MB	MARK BENCH
MC	MARK CHANGING POINT
MD	MARK DEEP
ME	MARK EVIDENCE
MF	MARK FLAG
MG	MARK GAUGE
MH	MARK HARD
MI	MARK INTER
MJ	MARK JUNCTION
MK	MARK KNOT
ML	MARK LOCAL
MM	MARK MARK
MN	MARK NORTH
MO	MARK ODD
MP	MARK POINT
MQ	MARK QUART
MR	MARK RIVER
MS	MARK SAND
MT	MARK TIDE
MU	MARK UNDER
MV	MARK VERTICAL
MW	MARK WEST
MX	MARK WEST
MY	MARK WEST
MZ	MARK WEST
NA	NORTH
NB	NORTH BENCH
NC	NORTH CHANGING POINT
ND	NORTH DEEP
NE	NORTH EVIDENCE
NF	NORTH FLAG
NG	NORTH GAUGE
NH	NORTH HARD
NI	NORTH INTER
NJ	NORTH JUNCTION
NK	NORTH KNOT
NL	NORTH LOCAL
NM	NORTH MARK
NN	NORTH NORTH
NO	NORTH ODD
NP	NORTH POINT
NQ	NORTH QUART
NR	NORTH RIVER
NS	NORTH SAND
NT	NORTH TIDE
NU	NORTH UNDER
NV	NORTH VERTICAL
NW	NORTH WEST
NX	NORTH WEST
NY	NORTH WEST
NZ	NORTH WEST
OA	ODD
OB	ODD BENCH
OC	ODD CHANGING POINT
OD	ODD DEEP
OE	ODD EVIDENCE
OF	ODD FLAG
OG	ODD GAUGE
OH	ODD HARD
OI	ODD INTER
OJ	ODD JUNCTION
OK	ODD KNOT
OL	ODD LOCAL
OM	ODD MARK
ON	ODD NORTH
OO	ODD ODD
OP	ODD POINT
OQ	ODD QUART
OR	ODD RIVER
OS	ODD SAND
OT	ODD TIDE
OU	ODD UNDER
OV	ODD VERTICAL
OW	ODD WEST
OX	ODD WEST
OY	ODD WEST
OZ	ODD WEST
PA	POINT
PB	POINT BENCH
PC	POINT CHANGING POINT
PD	POINT DEEP
PE	POINT EVIDENCE
PF	POINT FLAG
PG	POINT GAUGE
PH	POINT HARD
PI	POINT INTER
PJ	POINT JUNCTION
PK	POINT KNOT
PL	POINT LOCAL
PM	POINT MARK
PN	POINT NORTH
PO	POINT ODD
PP	POINT POINT
PQ	POINT QUART
PR	POINT RIVER
PS	POINT SAND
PT	POINT TIDE
PU	POINT UNDER
PV	POINT VERTICAL
PW	POINT WEST
PX	POINT WEST
PY	POINT WEST
PZ	POINT WEST
QA	QUART
QB	QUART BENCH
QC	QUART CHANGING POINT
QD	QUART DEEP
QE	QUART EVIDENCE
QF	QUART FLAG
QG	QUART GAUGE
QH	QUART HARD
QI	QUART INTER
QJ	QUART JUNCTION
QK	QUART KNOT
QL	QUART LOCAL
QM	QUART MARK
QN	QUART NORTH
QO	QUART ODD
QP	QUART POINT
QQ	QUART QUART
QR	QUART RIVER
QS	QUART SAND
QT	QUART TIDE
QU	QUART UNDER
QV	QUART VERTICAL
QW	QUART WEST
QX	QUART WEST
QY	QUART WEST
QZ	QUART WEST
RA	RIVER
RB	RIVER BENCH
RC	RIVER CHANGING POINT
RD	RIVER DEEP
RE	RIVER EVIDENCE
RF	RIVER FLAG
RG	RIVER GAUGE
RH	RIVER HARD
RI	RIVER INTER
RJ	RIVER JUNCTION
RK	RIVER KNOT
RL	RIVER LOCAL
RM	RIVER MARK
RN	RIVER NORTH
RO	RIVER ODD
RP	RIVER POINT
RQ	RIVER QUART
RR	RIVER RIVER
RS	RIVER SAND
RT	RIVER TIDE
RU	RIVER UNDER
RV	RIVER VERTICAL
RW	RIVER WEST
RX	RIVER WEST
RY	RIVER WEST
RZ	RIVER WEST
SA	SAND
SB	SAND BENCH
SC	SAND CHANGING POINT
SD	SAND DEEP
SE	SAND EVIDENCE
SF	SAND FLAG
SG	SAND GAUGE
SH	SAND HARD
SI	SAND INTER
SJ	SAND JUNCTION
SK	SAND KNOT
SL	SAND LOCAL
SM	SAND MARK
SN	SAND NORTH
SO	SAND ODD
SP	SAND POINT
SQ	SAND QUART
SR	SAND RIVER
SS	SAND SAND
ST	SAND TIDE
SU	SAND UNDER
SV	SAND VERTICAL
SW	SAND WEST
SX	SAND WEST
SY	SAND WEST
SZ	SAND WEST
TA	TIDE
TB	TIDE BENCH
TC	TIDE CHANGING POINT
TD	TIDE DEEP
TE	TIDE EVIDENCE
TF	TIDE FLAG
TG	TIDE GAUGE
TH	TIDE HARD
TI	TIDE INTER
TJ	TIDE JUNCTION
TK	TIDE KNOT
TL	TIDE LOCAL
TM	TIDE MARK
TN	TIDE NORTH
TO	TIDE ODD
TP	TIDE POINT
TQ	TIDE QUART
TR	TIDE RIVER
TS	TIDE SAND
TT	TIDE TIDE
TU	TIDE UNDER
TV	TIDE VERTICAL
TW	TIDE WEST
TX	TIDE WEST
TY	TIDE WEST
TZ	TIDE WEST
UA	UNDER
UB	UNDER BENCH
UC	UNDER CHANGING POINT
UD	UNDER DEEP
UE	UNDER EVIDENCE
UF	UNDER FLAG
UG	UNDER GAUGE
UH	UNDER HARD
UI	UNDER INTER
UJ	UNDER JUNCTION
UK	UNDER KNOT
UL	UNDER LOCAL
UM	UNDER MARK
UN	UNDER NORTH
UO	UNDER ODD
UP	UNDER POINT
UQ	UNDER QUART
UR	UNDER RIVER
US	UNDER SAND
UT	UNDER TIDE
UU	UNDER UNDER
UV	UNDER VERTICAL
UW	UNDER WEST
UX	UNDER WEST
UY	UNDER WEST
UZ	UNDER WEST
VA	VERTICAL
VB	VERTICAL BENCH
VC	VERTICAL CHANGING POINT
VD	VERTICAL DEEP
VE	VERTICAL EVIDENCE
VF	VERTICAL FLAG
VG	VERTICAL GAUGE
VH	VERTICAL HARD
VI	VERTICAL INTER
VJ	VERTICAL JUNCTION
VK	VERTICAL KNOT
VL	VERTICAL LOCAL
VM	VERTICAL MARK
VN	VERTICAL NORTH
VO	VERTICAL ODD
VP	VERTICAL POINT
VQ	VERTICAL QUART
VR	VERTICAL RIVER
VS	VERTICAL SAND
VT	VERTICAL TIDE
VU	VERTICAL UNDER
VV	VERTICAL VERTICAL
VW	VERTICAL WEST
VX	VERTICAL WEST
VY	VERTICAL WEST
VZ	VERTICAL WEST
WA	WEST
WB	WEST BENCH
WC	WEST CHANGING POINT
WD	WEST DEEP
WE	WEST EVIDENCE
WF	WEST FLAG
WG	WEST GAUGE
WH	WEST HARD
WI	WEST INTER
WJ	WEST JUNCTION
WK	WEST KNOT
WL	WEST LOCAL
WM	WEST MARK
WN	WEST NORTH
WO	WEST ODD
WP	WEST POINT
WQ	WEST QUART
WR	WEST RIVER
WS	WEST SAND
WT	WEST TIDE
WU	WEST UNDER
WV	WEST VERTICAL
WW	WEST WEST
WX	WEST WEST
WY	WEST WEST
WZ	WEST WEST

REV.	AMENDMENT	DRN	CHKD	DATE

CONTROL USED:	DESCRIPTION	LEVEL	TYPE	DESCRIPTION	LEVEL
E20511517	SK98626817	7.044	-	-	-
E20511539	SK98576513	5.733	-	-	-
E20512458	SK98636283	6.978	-	-	-
E20512789	SK98216390	7.583	-	-	-
E20512429	Destroyed	-	-	-	-
E60512814	SK91846277	8.962	-	-	-

Environment Agency

PROJECT: WATERCOURSE
 WITHAM CHANNEL SURVEY

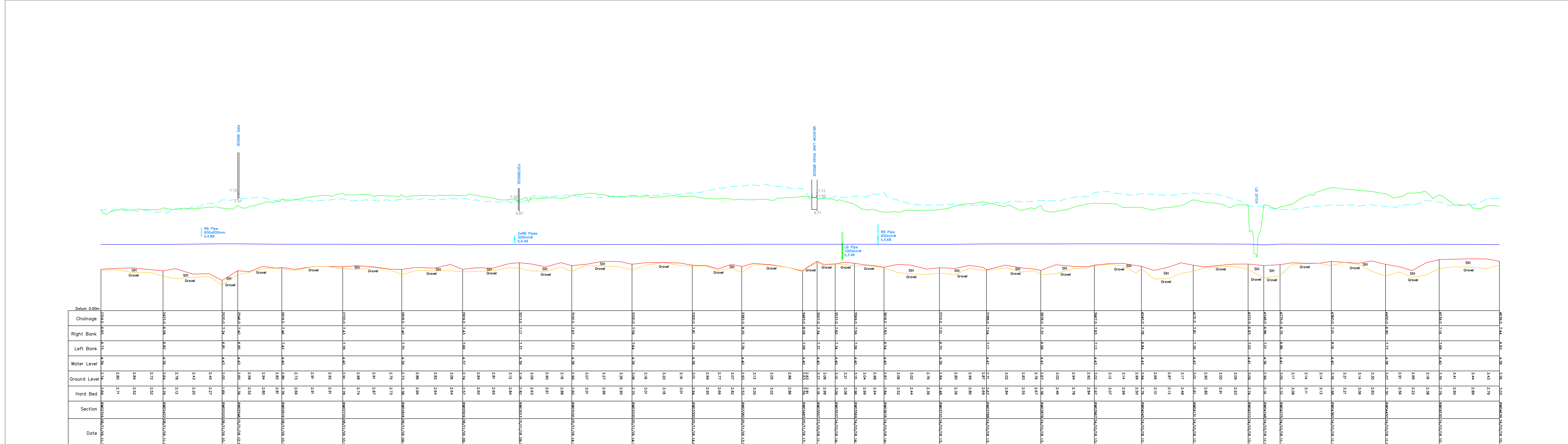
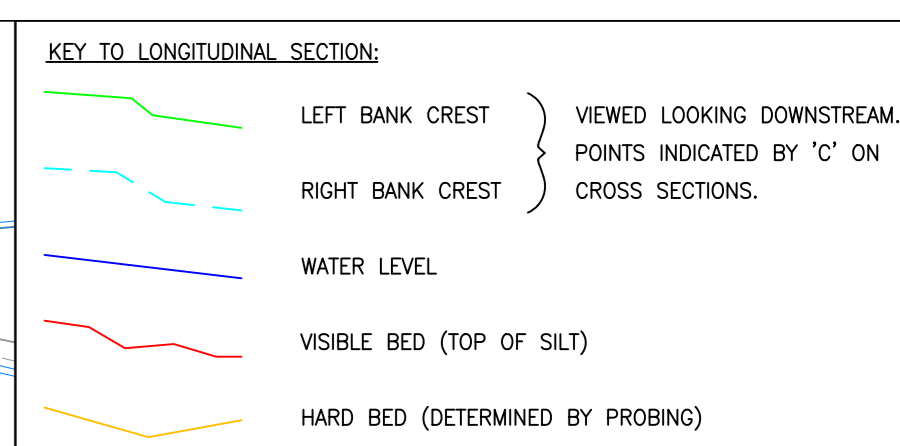
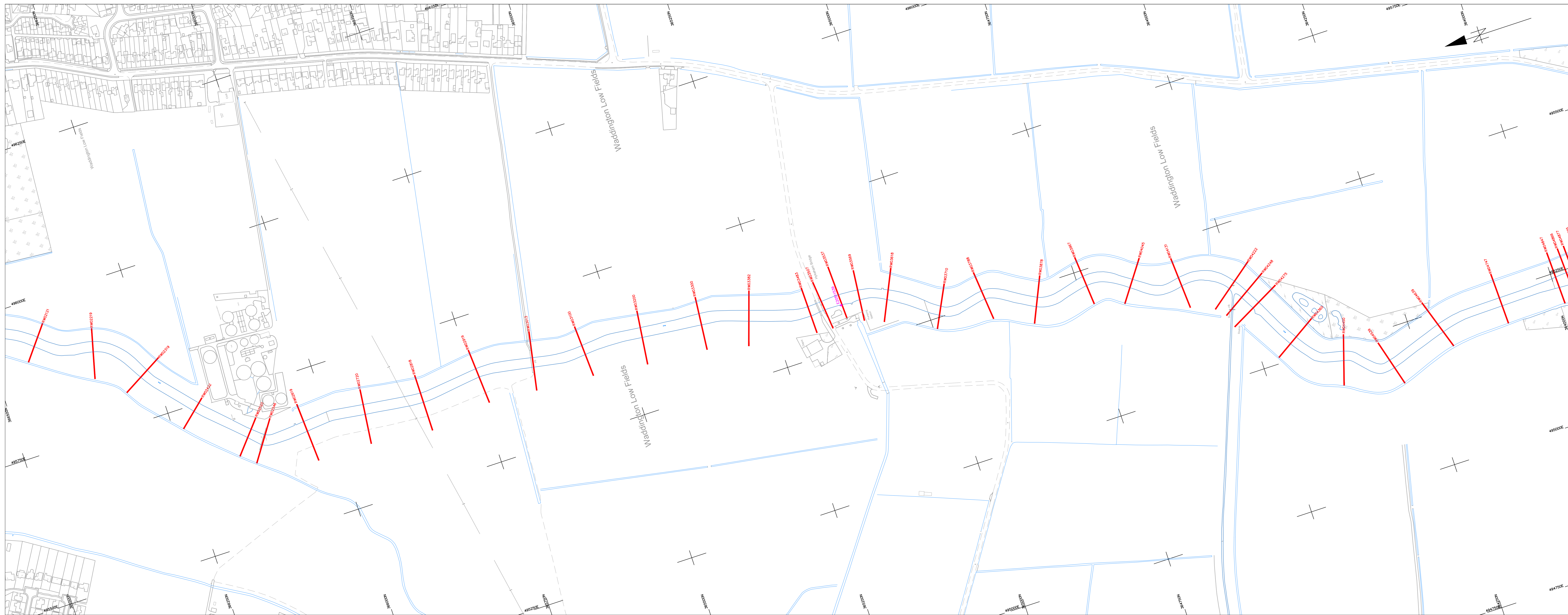
SITE/LIMITS
 SK96616819 to SK91286252
 Location Plan &
 Long Profile

SURVEYED BY: Malcolm Hughes
 SURVEY DATE: November 2018
 SCALE: 1:2500H, 1:100V
 DATUM: ODN
 GRID: National
 CWD FILENAME: L-J01434.dwg

REV. 52584

DRN: K.D.L.	CHKD: T.P.
DATE: DEC 18	DATE: DEC 18
REV.:	REV.:

DWG FILENAME: L-J01434-01



LONGITUDINAL RIVER SECTION - RIVER WITHAM
 Horizontal Scale = 1:2500
 Vertical Scale = 1:100

Chainage	Right Bank	Left Bank	Water Level	Ground Level	Hard Bed	Section	Date
20000.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20005.0	2.44	2.12	2.12	2.44	2.12	Silt	2018/11/20
20010.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20015.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20020.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20025.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20030.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20035.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20040.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20045.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20050.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20055.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20060.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20065.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20070.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20075.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20080.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20085.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20090.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20095.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20100.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20105.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20110.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20115.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20120.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20125.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20130.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20135.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20140.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20145.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20150.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20155.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20160.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20165.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20170.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20175.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20180.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20185.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20190.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20195.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20200.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20205.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20210.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20215.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20220.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20225.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20230.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20235.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20240.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20245.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20250.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20255.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20260.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20265.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20270.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20275.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20280.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20285.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20290.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20295.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20300.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20305.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20310.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20315.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20320.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20325.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20330.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20335.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20340.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20345.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20350.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20355.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20360.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20365.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20370.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20375.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20380.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20385.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20390.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20395.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20400.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20405.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20410.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20415.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20420.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20425.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20430.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20435.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20440.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20445.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20450.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20455.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20460.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20465.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20470.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20475.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20480.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20485.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20490.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20495.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20
20500.0	2.44	2.12	2.12	2.44	2.12	Gravel	2018/11/20

1. A REPORT HAS BEEN PRODUCED FOR THIS SURVEY.
 2. ORDNANCE SURVEY MATERIAL REPRODUCED WITH THE PERMISSION OF THE CONTROLLER OF H.M.S.O.
 3. THIS DRAWING PLOTS TO SCALE ON A0 SIZE PAPER

NOTES:

REV.	AMENDMENT	DRN	CHKD	DATE

CONTROL USED:	DESCRIPTION	LEVEL	DESCRIPTION	LEVEL
E20511517	SK96626817	7.044		
E20511539	SK9576513	5.733		
E20512456	SK94636285	6.976		
E20512769	SK95216390	7.563		
E20512429	Destroyed			
E60512814	SK91846277	8.962		

Environment Agency

PROJECT/WATERCOURSE: WITHAM CHANNEL SURVEY

SITE/LIMITS: SK96616819 to SK91286252
 Location Plan & Long Profile

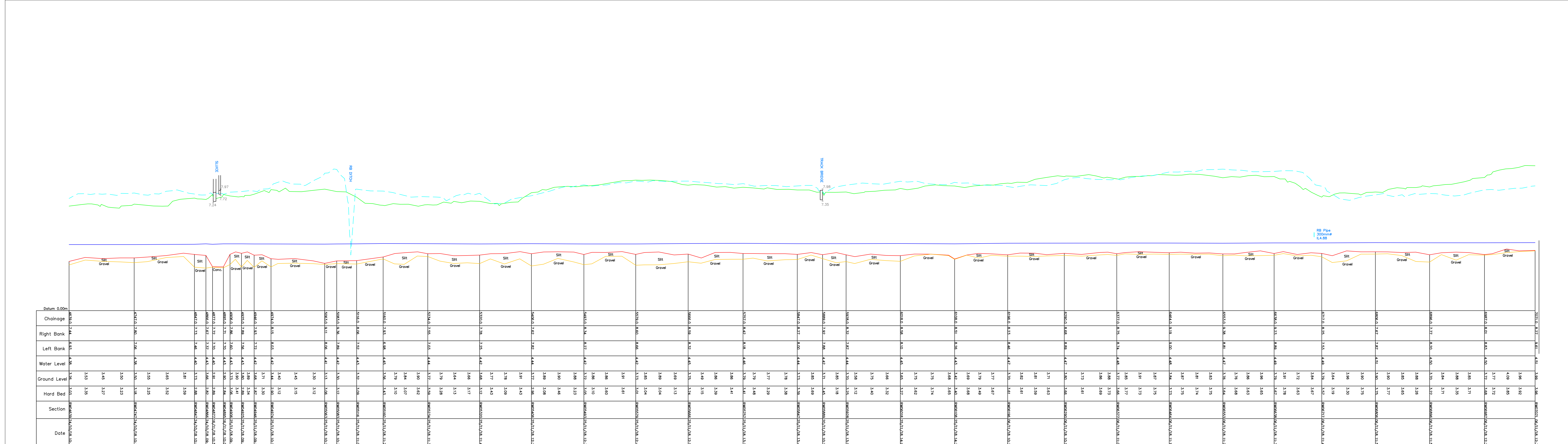
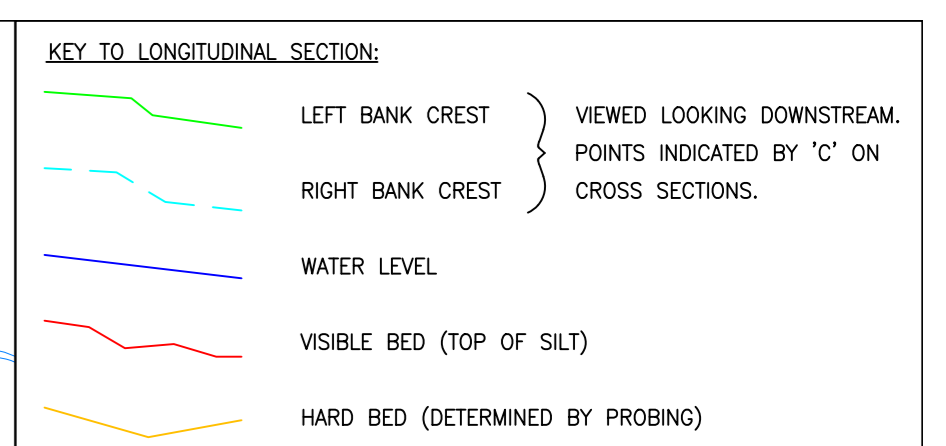
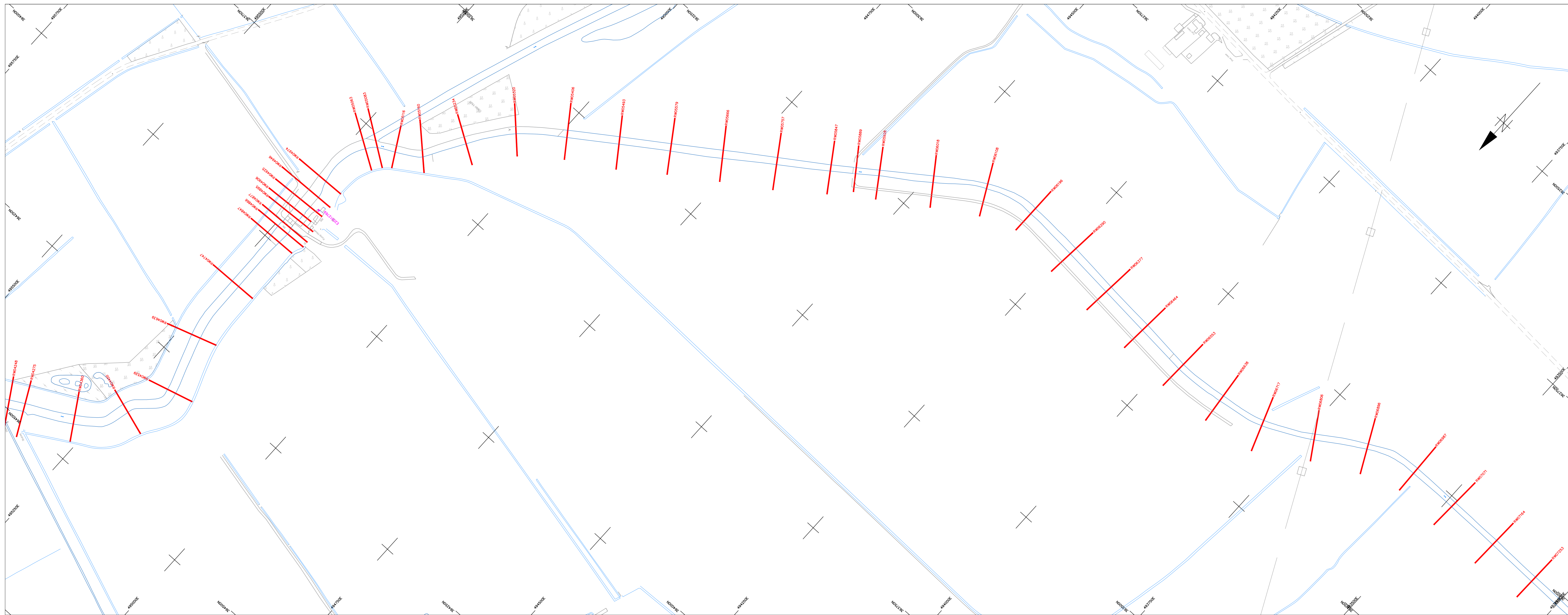
SURVEYED BY: Malcolm Hughes *Rev 5/2018*

SURVEY DATE: November 2018

SCALE: 1:2500H, 1:100V DRN: K.D.L. CHKD: T.P.

DATUM: ODN DATE: DEC 18 DATE: DEC 18

GRID: National DRAWING NO. L-J01434-02



LONGITUDINAL RIVER SECTION - RIVER WITHAM
 Horizontal Scale = 1:2500
 Vertical Scale = 1:100

NOTES:
 1. A REPORT HAS BEEN PRODUCED FOR THIS SURVEY.
 2. ORDINANCE SURVEY MATERIAL REPRODUCED WITH THE PERMISSION OF THE CONTROLLER OF H.M.S.O.
 3. THIS DRAWING PLOTS TO SCALE ON A0 SIZE PAPER

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
AS	AS BENCH	PS	POST & WIRE FENCE
BS	BENCH MARK	PS	POST & WIRE FENCE
CH	CHANGING POINT	PS	POST & WIRE FENCE
CL	CHAIN LINE	PS	POST & WIRE FENCE
CP	CROSSING POINT	PS	POST & WIRE FENCE
CR	CROSSING POINT	PS	POST & WIRE FENCE
CS	CROSSING POINT	PS	POST & WIRE FENCE
CT	CROSSING POINT	PS	POST & WIRE FENCE
CU	CROSSING POINT	PS	POST & WIRE FENCE
CV	CROSSING POINT	PS	POST & WIRE FENCE
CW	CROSSING POINT	PS	POST & WIRE FENCE
CX	CROSSING POINT	PS	POST & WIRE FENCE
CY	CROSSING POINT	PS	POST & WIRE FENCE
CZ	CROSSING POINT	PS	POST & WIRE FENCE
DA	DA BENCH	PS	POST & WIRE FENCE
DB	DA BENCH	PS	POST & WIRE FENCE
DC	DA BENCH	PS	POST & WIRE FENCE
DD	DA BENCH	PS	POST & WIRE FENCE
DE	DA BENCH	PS	POST & WIRE FENCE
DF	DA BENCH	PS	POST & WIRE FENCE
DG	DA BENCH	PS	POST & WIRE FENCE
DH	DA BENCH	PS	POST & WIRE FENCE
DI	DA BENCH	PS	POST & WIRE FENCE
DJ	DA BENCH	PS	POST & WIRE FENCE
DK	DA BENCH	PS	POST & WIRE FENCE
DL	DA BENCH	PS	POST & WIRE FENCE
DM	DA BENCH	PS	POST & WIRE FENCE
DN	DA BENCH	PS	POST & WIRE FENCE
DO	DA BENCH	PS	POST & WIRE FENCE
DP	DA BENCH	PS	POST & WIRE FENCE
DQ	DA BENCH	PS	POST & WIRE FENCE
DR	DA BENCH	PS	POST & WIRE FENCE
DS	DA BENCH	PS	POST & WIRE FENCE
DT	DA BENCH	PS	POST & WIRE FENCE
DU	DA BENCH	PS	POST & WIRE FENCE
DV	DA BENCH	PS	POST & WIRE FENCE
DW	DA BENCH	PS	POST & WIRE FENCE
DX	DA BENCH	PS	POST & WIRE FENCE
DY	DA BENCH	PS	POST & WIRE FENCE
DZ	DA BENCH	PS	POST & WIRE FENCE

REV.	AMENDMENT	DRN	CHKD	DATE

CONTROL USED:	LEVEL	CONTROL USED:	LEVEL
E20511517	SK96626817	7.044	
E20511539	SK96576513	5.733	
E20512426	SK96630285	6.978	
E20512769	SK96218390	7.563	
E20512429	SK96630285	6.978	
E60512814	SK91846277	8.962	

Environment Agency

PROJECT/WATERCOURSE: WITHAM CHANNEL SURVEY

SITE/LIMITS: SK96616819 to SK91286252
Location Plan & Long Profile

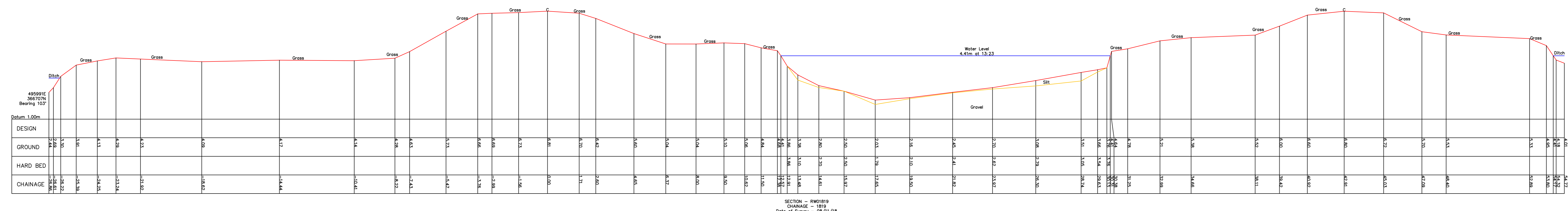
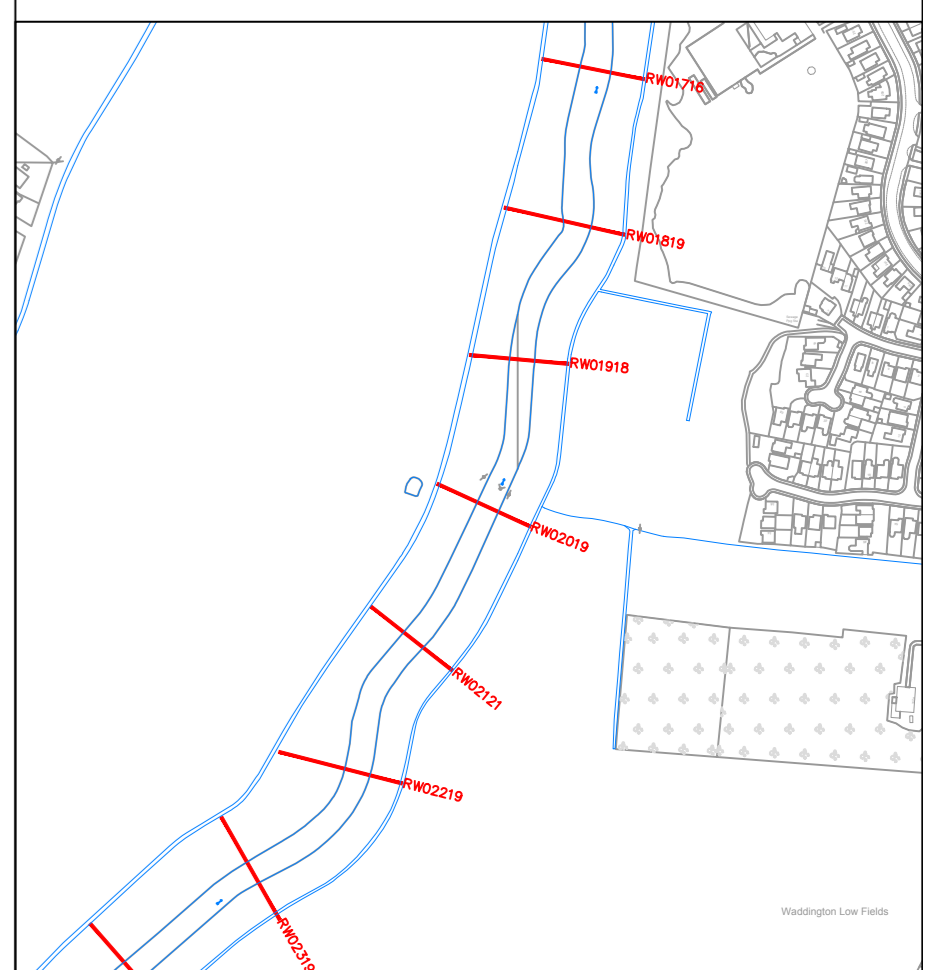
SURVEYED BY: Malcolm Hughes *Rev 5/2018*

SURVEY DATE: November 2018

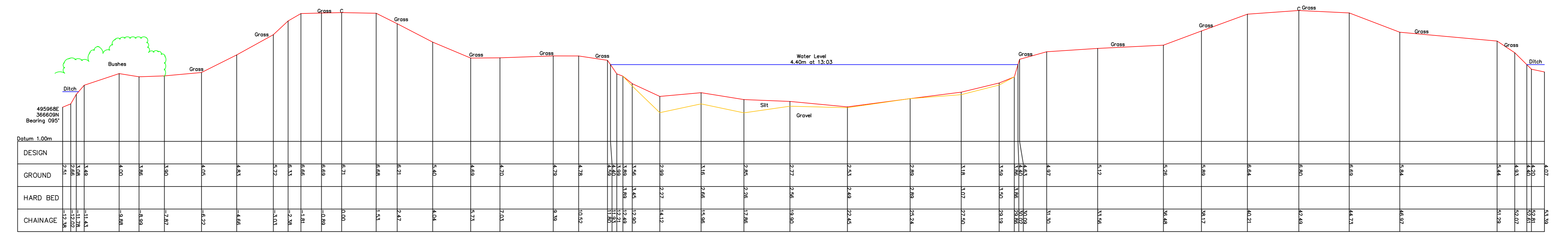
SCALE: 1:2500H, 1:100V DRN: K.D.L. CHKD: T.P.

DATUM: ODN DATE: DEC 18 DATE: DEC 18

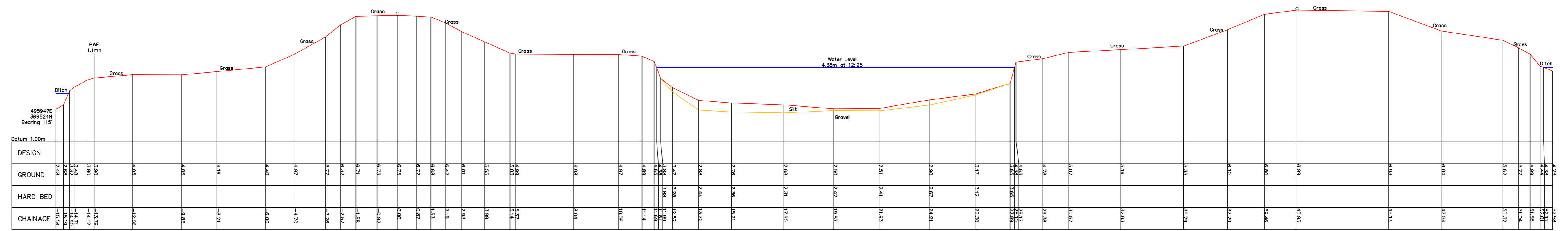
GRID: National DRAWING NO. L-J01434-03



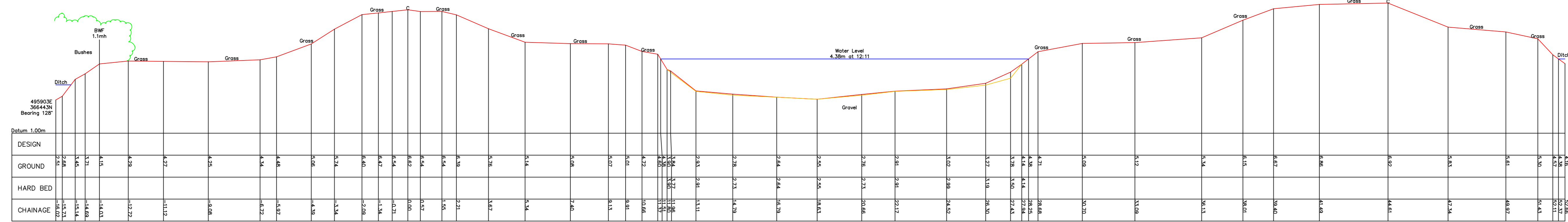
SECTION - R01819
CHANNEL = 1819
Date of Survey = 08/11/18



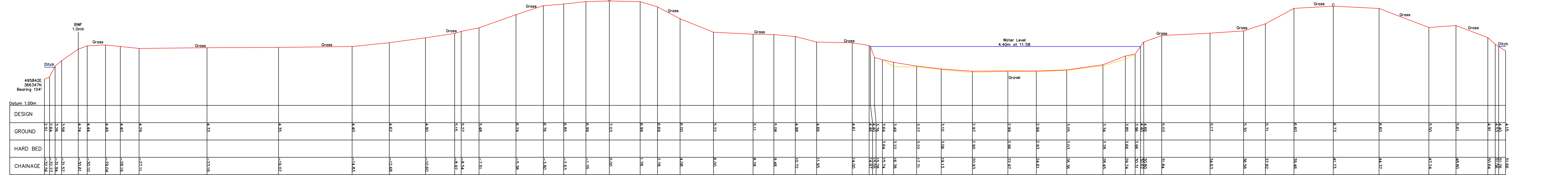
SECTION - R01818
CHANNEL = 1818
Date of Survey = 08/11/18



SECTION - R02019
CHANNEL = 2019
Date of Survey = 08/11/18



SECTION - R02021
CHANNEL = 2121
Date of Survey = 08/11/18



SECTION - R02029
CHANNEL = 2129
Date of Survey = 08/11/18

1. A REPORT HAS BEEN PRODUCED FOR THIS SURVEY.
2. SOME LEVELS MAY NOT BE SHOWN ON THIS PLOT DUE TO OVERRIDING. REFER TO AUTOCAD FILE (LAYER 'OVER').
3. ALL CROSS-SECTIONS ARE VIEWED LOOKING DOWNSTREAM.

NOTES:

REV.	AMENDMENT	DRN	CHKD	DATE

CONTROL USED:	TYPE	DESCRIPTION	LEVEL
E20511517	SK96626817	7.044	-
E20511539	SK93576513	5.733	-
E20512456	SK84656285	5.978	-
E20512769	SK95216390	7.583	-
E20512429	Destroyed	-	-
E60512814	SK91846277	8.962	-

Environment Agency

PROJECT/WATERCOURSE: WITHAM CHANNEL SURVEY

SITE/LIMITS: SK96616819 to SK91286252
Cross Sections RW01819 to RW02219

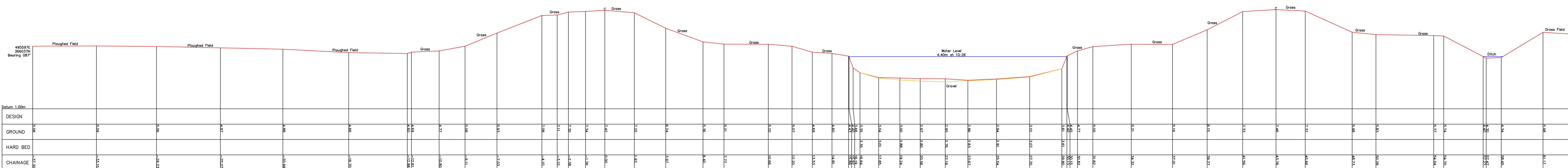
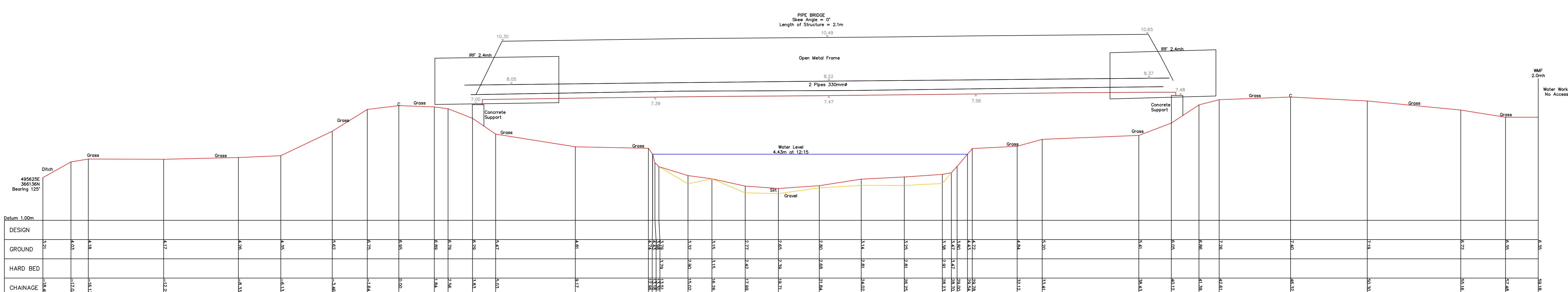
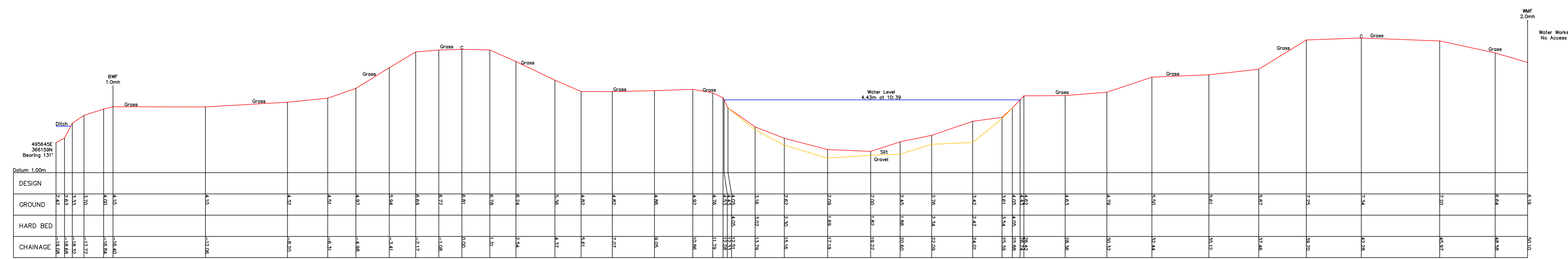
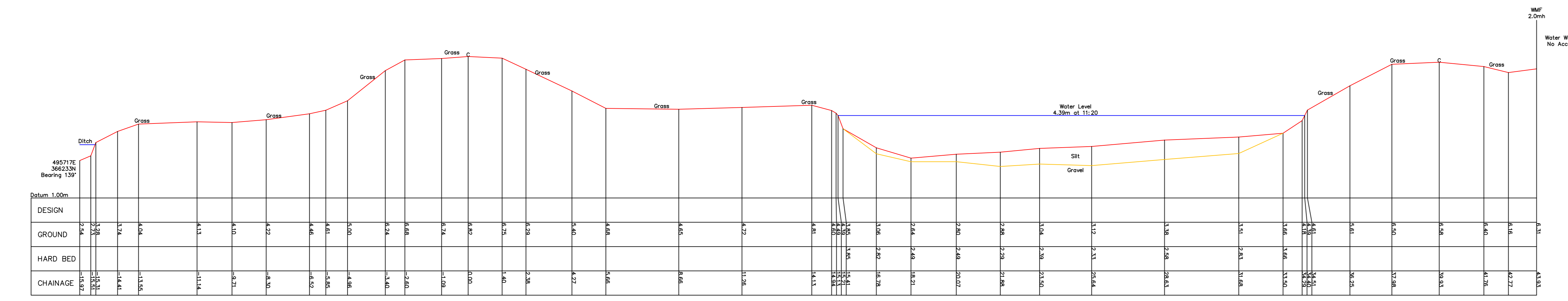
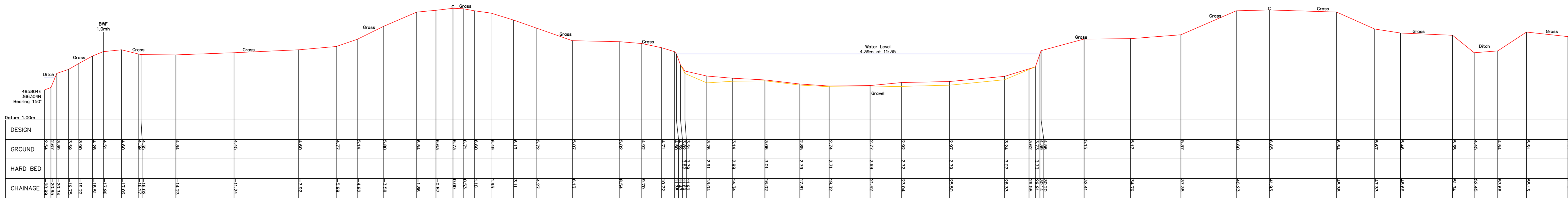
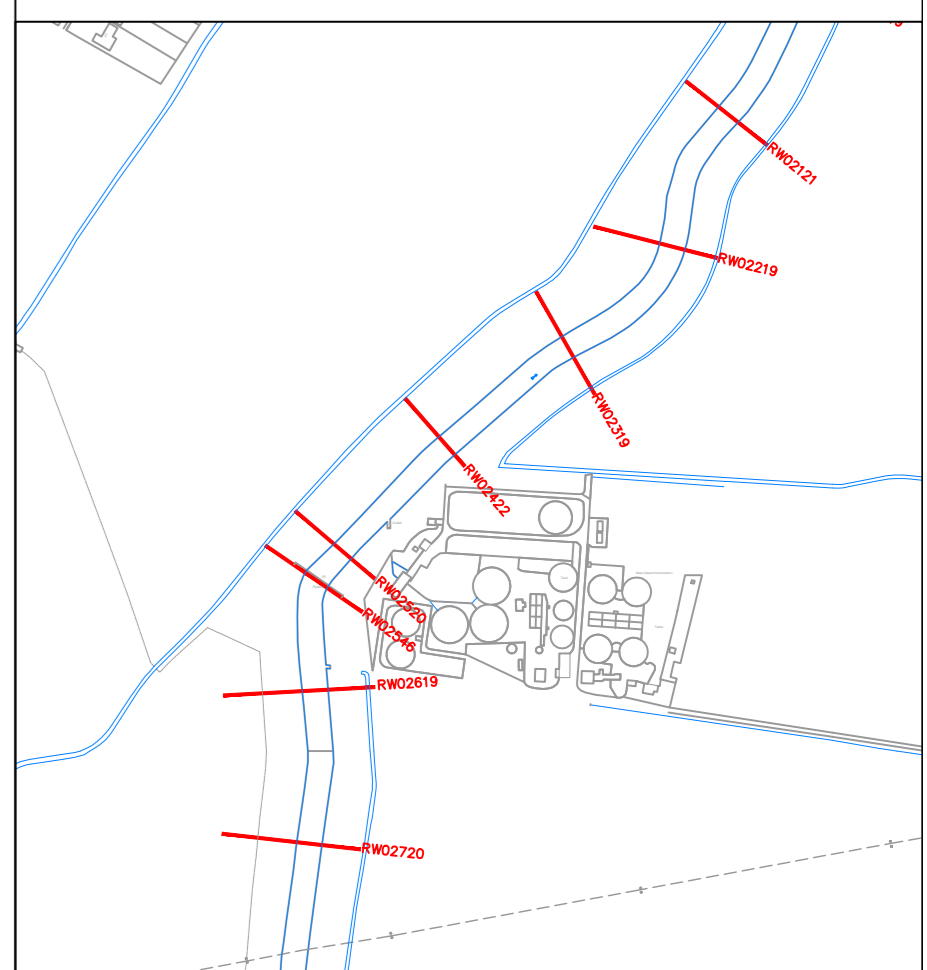
SURVEYED BY: Malcolm Hughes *Rev 52584*

SURVEY DATE: November 2018

SCALE: 1:00 | DRN: K.D.L. | CHKD: T.P.

DATUM: ODN | DATE: DEC 18 | DATE: DEC 18

GRID: National | DRAWING NO: X-J01434-05



NOTES:
1. A REPORT HAS BEEN PRODUCED FOR THIS SURVEY.
2. SOME LEVELS MAY NOT BE SHOWN ON THIS PLOT DUE TO OVERWRITING. REFER TO AUTOCAD FILE (LAYER OVER).
3. ALL CROSS-SECTIONS ARE VIEWED LOOKING DOWNSTREAM.

REV.	AMENDMENT	DRN	CHKD	DATE

CONTROL USED:	TYPE	DESCRIPTION	LEVEL	CONTROL USED:	TYPE	DESCRIPTION	LEVEL
E20511517	SK98626817	7.044	-	-	-	-	-
E20511539	SK93576513	5.733	-	-	-	-	-
E20512456	SK94636260	6.978	-	-	-	-	-
E20512769	SK9216390	7.583	-	-	-	-	-
E20512429	Destroyed	-	-	-	-	-	-
E60512814	SK91846277	8.962	-	-	-	-	-

Environment Agency

PROJECT/WATERCOURSE
WITHAM CHANNEL SURVEY

SITE/LIMITS
SK96616819 to SK91286252
Cross Sections
RW02319 to RW02619

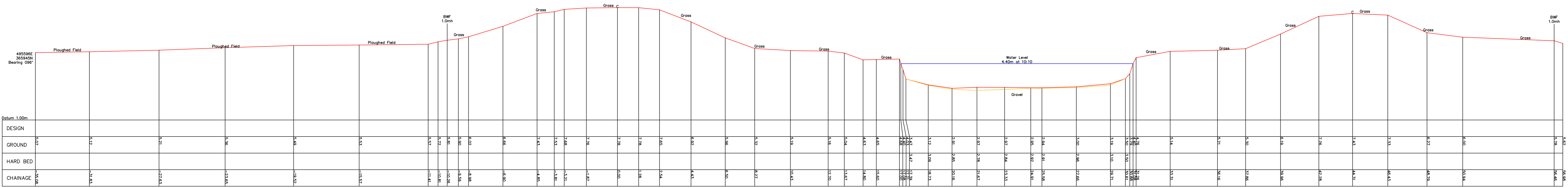
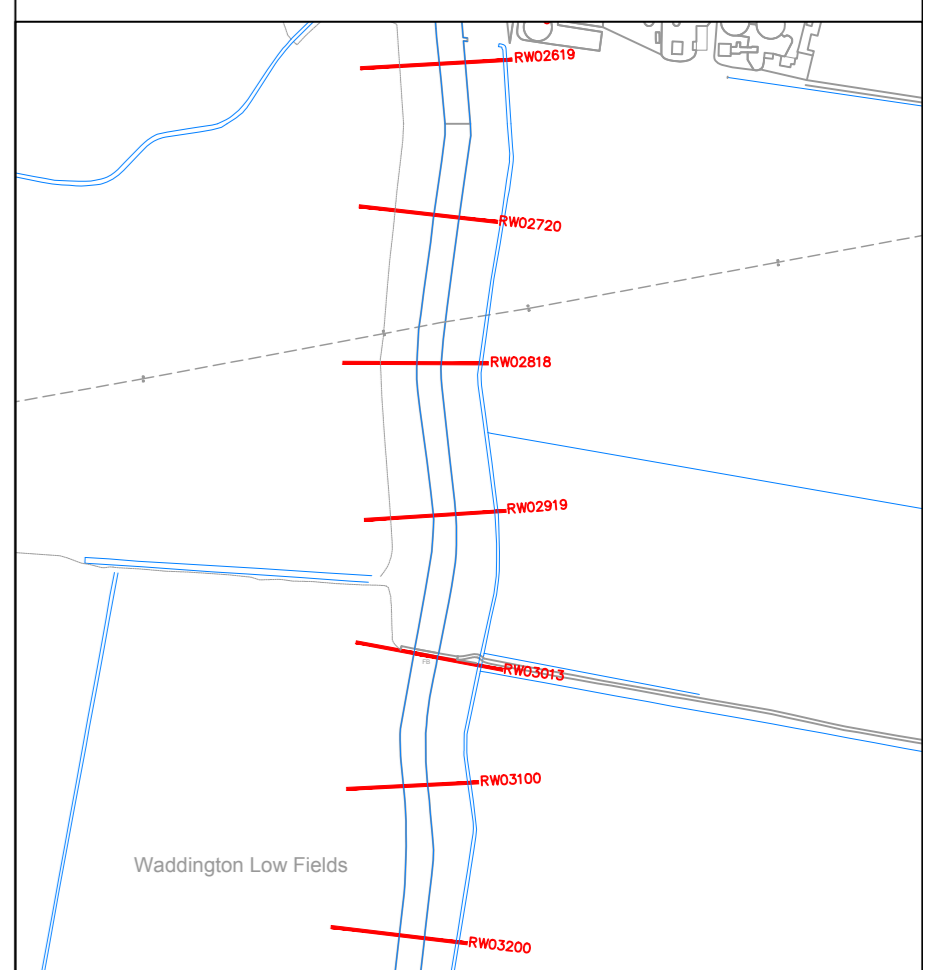
SURVEYED BY: Malcolm Hughes *Rev 52584*

SURVEY DATE: November 2018

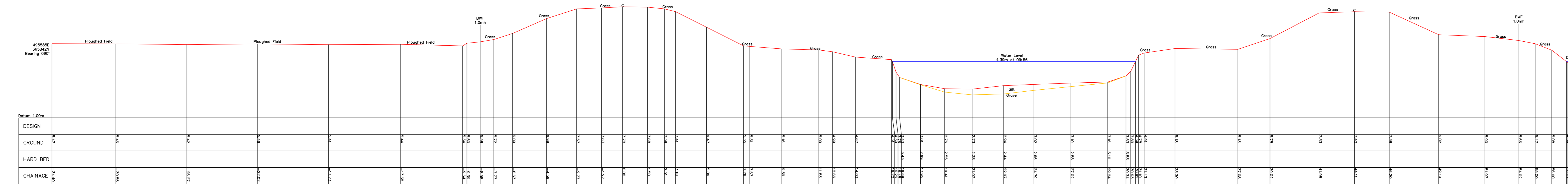
SCALE: 1:00
DATUM: ODN
GRID: National

DRN: K.D.L.
DATE: DEC 18
DRAWING NO: X-J01434-06

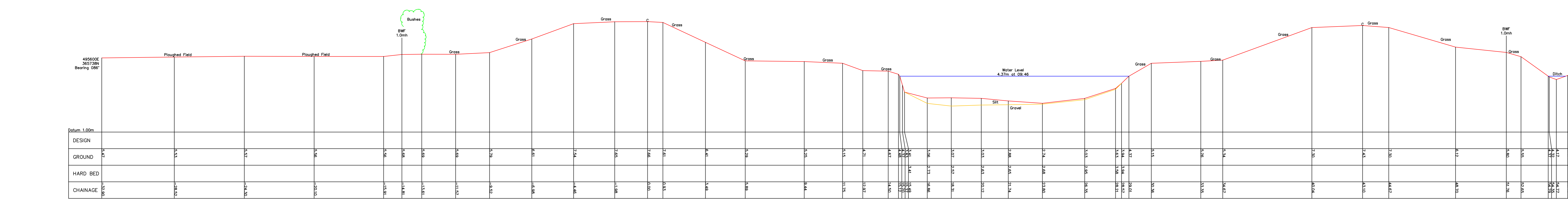
CHKD: T.P.
DATE: DEC 18
REV: -



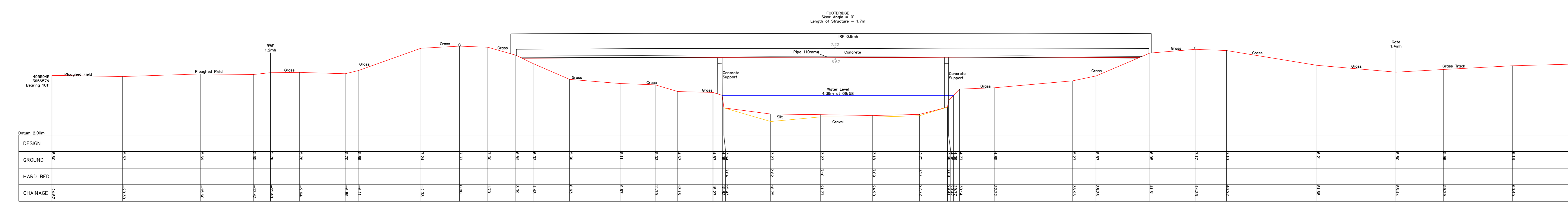
SECTION - RW0270
CHANNEL - 3300
Date of Survey - 08/11/18



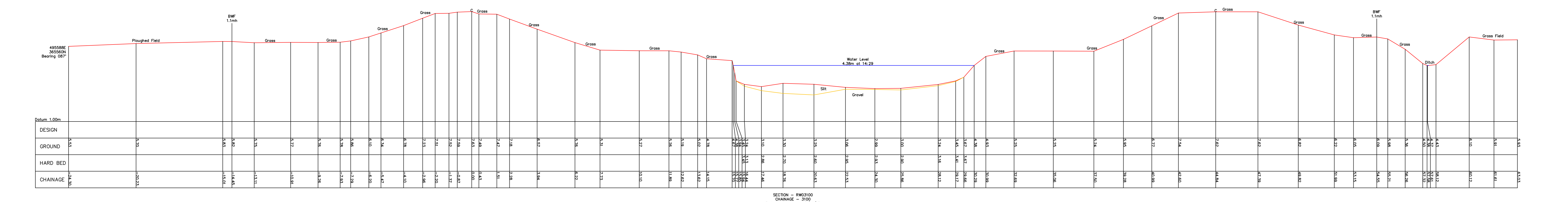
SECTION - RW0288
CHANNEL - 2818
Date of Survey - 08/11/18



SECTION - RW0219
CHANNEL - 2918
Date of Survey - 08/11/18



SECTION - RW0003
CHANNEL - 3013
Date of Survey - 10/01/18

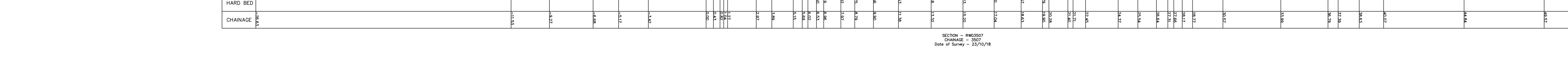
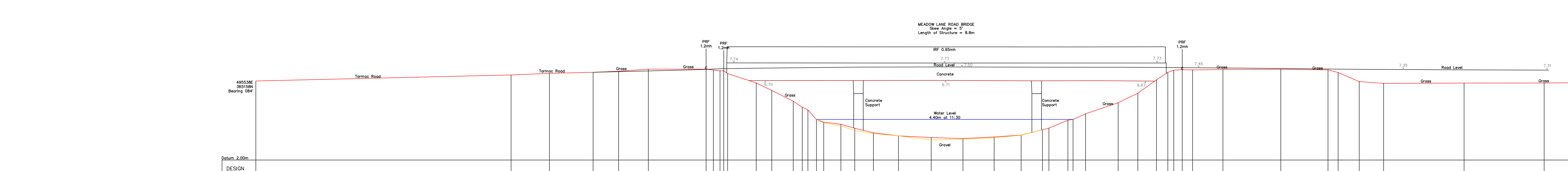
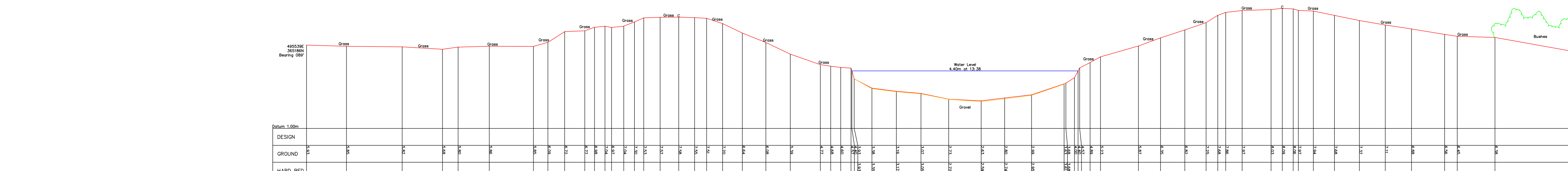
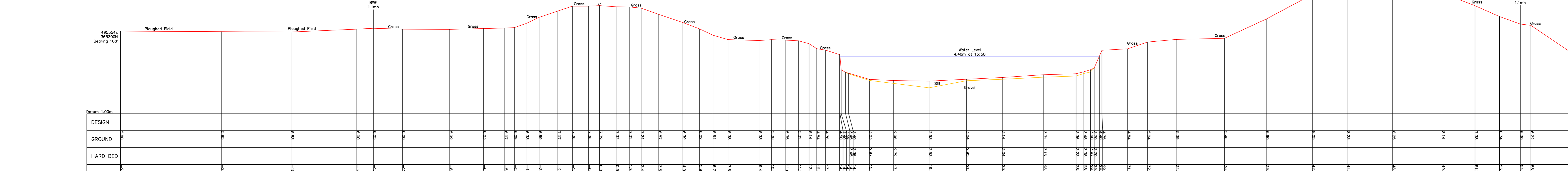
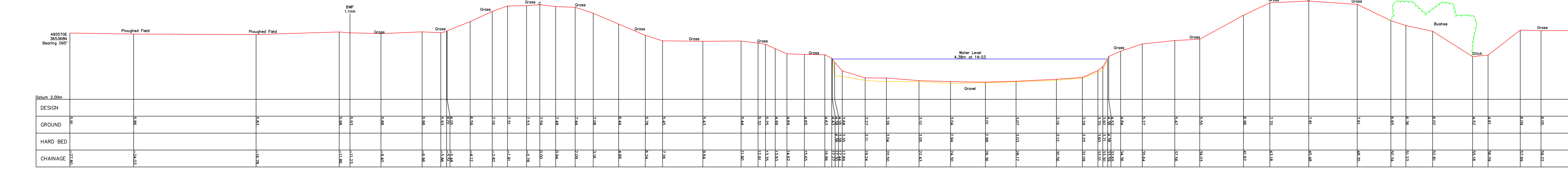
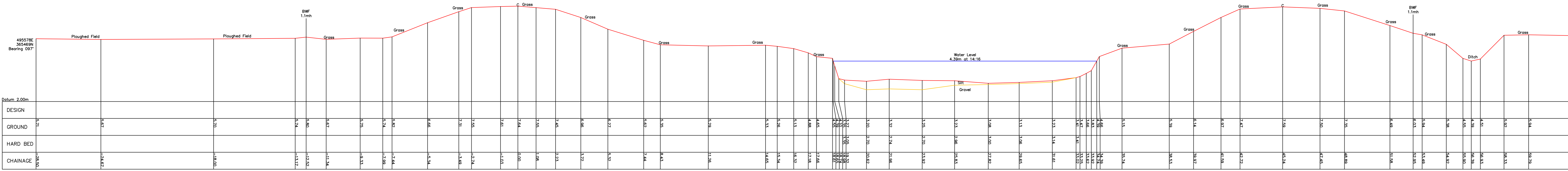
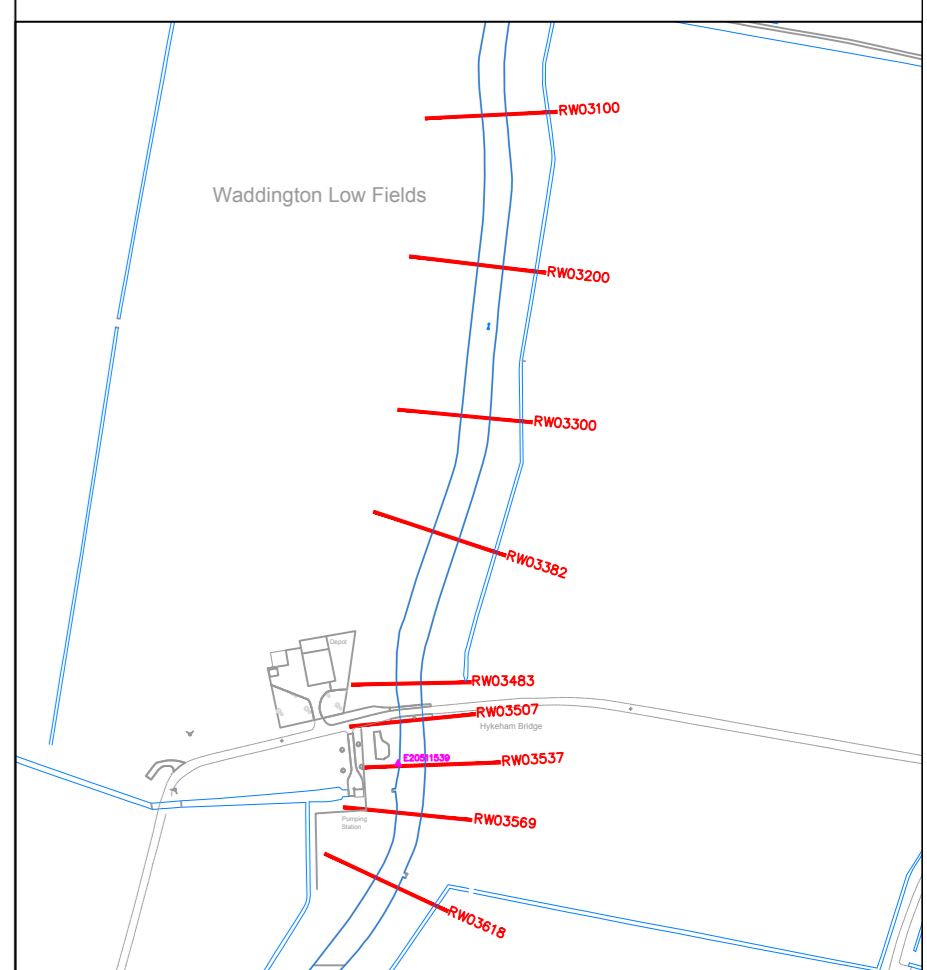


SECTION - RW0200
CHANNEL - 3005/18
Date of Survey - 08/11/18

- 1. A REPORT HAS BEEN PRODUCED FOR THIS SURVEY.
- 2. SOME LEVELS MAY NOT BE SHOWN ON THIS PLOT DUE TO 'OVERWRITING' REFER TO AUTOCAD FILE (LAYER 'OVER').
- 3. ALL CROSS-SECTIONS ARE VIEWED LOOKING DOWNSTREAM.

NOTES:

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
AS	AS BENCH	PL	PIPE
BL	BENCH MARK	PS	POST & SIGN
BR	BENCH MARK	RS	RIDGE
BS	BENCH MARK	SS	SHOULDER
BT	BENCH MARK	TS	TRENCH
BU	BENCH MARK	US	UNDERPASS
BV	BENCH MARK	VS	VALVE
BW	BENCH MARK	WS	WATER
BX	BENCH MARK	XS	X-BENCH
BY	BENCH MARK	YS	Y-BENCH
BZ	BENCH MARK	ZS	Z-BENCH
CA	CHAINAGE	CS	CROSSING
CB	CHAINAGE	CS	CROSSING
CC	CHAINAGE	CS	CROSSING
CD	CHAINAGE	CS	CROSSING
CE	CHAINAGE	CS	CROSSING
CF	CHAINAGE	CS	CROSSING
CG	CHAINAGE	CS	CROSSING
CH	CHAINAGE	CS	CROSSING
CI	CHAINAGE	CS	CROSSING
CJ	CHAINAGE	CS	CROSSING
CK	CHAINAGE	CS	CROSSING
CL	CHAINAGE	CS	CROSSING
CM	CHAINAGE	CS	CROSSING
CN	CHAINAGE	CS	CROSSING
CO	CHAINAGE	CS	CROSSING
CP	CHAINAGE	CS	CROSSING
CQ	CHAINAGE	CS	CROSSING
CR	CHAINAGE	CS	CROSSING
CS	CHAINAGE	CS	CROSSING
CT	CHAINAGE	CS	CROSSING
CU	CHAINAGE	CS	CROSSING
CV	CHAINAGE	CS	CROSSING
CW	CHAINAGE	CS	CROSSING
CX	CHAINAGE	CS	CROSSING
CY	CHAINAGE	CS	CROSSING
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DC	DESIGN	DS	DESIGN
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DE	DESIGN	DS	DESIGN
DF	DESIGN	DS	DESIGN
DG	DESIGN	DS	DESIGN
DH	DESIGN	DS	DESIGN
DI	DESIGN	DS	DESIGN
DJ	DESIGN	DS	DESIGN
DK	DESIGN	DS	DESIGN
DL	DESIGN	DS	DESIGN
DM	DESIGN	DS	DESIGN
DN	DESIGN	DS	DESIGN
DO	DESIGN	DS	DESIGN
DP	DESIGN	DS	DESIGN
DQ	DESIGN	DS	DESIGN
DR	DESIGN	DS	DESIGN
DS	DESIGN	DS	DESIGN
DT	DESIGN	DS	DESIGN
DU	DESIGN	DS	DESIGN
DV	DESIGN	DS	DESIGN
DW	DESIGN	DS	DESIGN
DX	DESIGN	DS	DESIGN
DY	DESIGN	DS	DESIGN
DZ	DESIGN	DS	DESIGN
EA	EARTH	ES	EARTH
EB	EARTH	ES	EARTH
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ED	EARTH	ES	EARTH
EE	EARTH	ES	EARTH
EF	EARTH	ES	EARTH
EG	EARTH	ES	EARTH
EH	EARTH	ES	EARTH
EI	EARTH	ES	EARTH
EJ	EARTH	ES	EARTH
EK	EARTH	ES	EARTH
EL	EARTH	ES	EARTH
EM	EARTH	ES	EARTH
EN	EARTH	ES	EARTH
EO	EARTH	ES	EARTH
EP	EARTH	ES	EARTH
EQ	EARTH	ES	EARTH
ER	EARTH	ES	EARTH
ES	EARTH	ES	EARTH
ET	EARTH	ES	EARTH
EU	EARTH	ES	EARTH
EV	EARTH	ES	EARTH
EW	EARTH	ES	EARTH
EX	EARTH	ES	EARTH
EY	EARTH	ES	EARTH
EZ	EARTH	ES	EARTH
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FE	FOUNDATION	FS	FOUNDATION
FF	FOUNDATION	FS	FOUNDATION
FG	FOUNDATION	FS	FOUNDATION
FH	FOUNDATION	FS	FOUNDATION
FI	FOUNDATION	FS	FOUNDATION
FJ	FOUNDATION	FS	FOUNDATION
FK	FOUNDATION	FS	FOUNDATION
FL	FOUNDATION	FS	FOUNDATION
FM	FOUNDATION	FS	FOUNDATION
FN	FOUNDATION	FS	FOUNDATION
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FU	FOUNDATION	FS	FOUNDATION
FV	FOUNDATION	FS	FOUNDATION
FW	FOUNDATION	FS	FOUNDATION
FX	FOUNDATION	FS	FOUNDATION
FY	FOUNDATION	FS	FOUNDATION
FZ	FOUNDATION	FS	FOUNDATION
GA	GRASS	GS	GRASS
GB	GRASS	GS	GRASS
GC	GRASS	GS	GRASS
GD	GRASS	GS	GRASS
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GU	GRASS	GS	GRASS
GV	GRASS	GS	GRASS
GW	GRASS	GS	GRASS
GX	GRASS	GS	GRASS
GY	GRASS	GS	GRASS
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HA	HARD BED	HS	HARD BED
HB	HARD BED	HS	HARD BED
HC	HARD BED	HS	HARD BED
HD	HARD BED	HS	HARD BED
HE	HARD BED	HS	HARD BED
HF	HARD BED	HS	HARD BED
HG	HARD BED	HS	HARD BED
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HJ	HARD BED	HS	HARD BED
HK	HARD BED	HS	HARD BED
HL	HARD BED	HS	HARD BED
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HN	HARD BED	HS	HARD BED
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HS	HARD BED	HS	HARD BED
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HY	HARD BED	HS	HARD BED
HZ	HARD BED	HS	HARD BED
IA	IRREGULAR	IS	IRREGULAR
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IC	IRREGULAR	IS	IRREGULAR
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IE	IRREGULAR	IS	IRREGULAR
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IG	IRREGULAR	IS	IRREGULAR
IH	IRREGULAR	IS	IRREGULAR
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IJ	IRREGULAR	IS	IRREGULAR
IK	IRREGULAR	IS	IRREGULAR
IL	IRREGULAR	IS	IRREGULAR
IM	IRREGULAR	IS	IRREGULAR
IN	IRREGULAR	IS	IRREGULAR
IO	IRREGULAR	IS	IRREGULAR
IP	IRREGULAR	IS	IRREGULAR
IQ	IRREGULAR	IS	IRREGULAR
IR	IRREGULAR	IS	IRREGULAR
IS	IRREGULAR	IS	IRREGULAR
IT	IRREGULAR	IS	IRREGULAR
IU	IRREGULAR	IS	IRREGULAR
IV	IRREGULAR	IS	IRREGULAR
IW	IRREGULAR	IS	IRREGULAR
IX	IRREGULAR	IS	IRREGULAR
IY	IRREGULAR	IS	IRREGULAR
IZ	IRREGULAR	IS	IRREGULAR
JA	JUNCTION	JS	JUNCTION
JB	JUNCTION	JS	JUNCTION
JC	JUNCTION	JS	JUNCTION
JD	JUNCTION	JS	JUNCTION
JE	JUNCTION	JS	JUNCTION
JF	JUNCTION	JS	JUNCTION
JG	JUNCTION	JS	JUNCTION
JH	JUNCTION	JS	JUNCTION
JI	JUNCTION	JS	JUNCTION
JJ	JUNCTION	JS	JUNCTION
JK	JUNCTION	JS	JUNCTION
JL	JUNCTION	JS	JUNCTION
JM	JUNCTION	JS	JUNCTION
JN	JUNCTION	JS	JUNCTION
JO	JUNCTION	JS	JUNCTION
JP	JUNCTION	JS	JUNCTION
JQ	JUNCTION	JS	JUNCTION
JR	JUNCTION	JS	JUNCTION
JS	JUNCTION	JS	JUNCTION
JT	JUNCTION	JS	JUNCTION
JU	JUNCTION	JS	JUNCTION
JV	JUNCTION	JS	JUNCTION
JW	JUNCTION	JS	JUNCTION
JX	JUNCTION	JS	JUNCTION
JY	JUNCTION	JS	JUNCTION
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KH	KNOCK	KS	KNOCK
KI	KNOCK	KS	KNOCK
KJ	KNOCK	KS	KNOCK
KK	KNOCK	KS	KNOCK
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LB	LAND	LS	LAND
LC	LAND	LS	LAND
LD	LAND	LS	LAND
LE	LAND	LS	LAND
LF	LAND	LS	LAND
LG	LAND	LS	LAND
LH	LAND	LS	LAND
LI	LAND	LS	LAND
LJ	LAND	LS	LAND
LK	LAND	LS	LAND
LL	LAND	LS	LAND
LM	LAND	LS	LAND
LN	LAND	LS	LAND
LO	LAND	LS	LAND
LP	LAND	LS	LAND
LQ	LAND	LS	LAND
LR	LAND	LS	LAND
LS	LAND	LS	LAND
LT	LAND	LS	LAND
LU	LAND	LS	LAND
LV	LAND	LS	LAND
LW	LAND	LS	LAND
LX	LAND	LS	LAND
LY	LAND	LS	LAND
LZ	LAND	LS	LAND
MA	MATERIAL	MS	MATERIAL
MB	MATERIAL	MS	MATERIAL
MC	MATERIAL	MS	MATERIAL
MD	MATERIAL	MS	MATERIAL
ME	MATERIAL	MS	MATERIAL
MF	MATERIAL	MS	MATERIAL
MG	MATERIAL	MS	MATERIAL
MH	MATERIAL	MS	MATERIAL
MI	MATERIAL	MS	MATERIAL
MJ	MATERIAL	MS	MATERIAL
MK	MATERIAL	MS	MATERIAL
ML	MATERIAL	MS	MATERIAL
MM	MATERIAL	MS	MATERIAL
MN	MATERIAL	MS	MATERIAL
MO	MATERIAL	MS	MATERIAL
MP	MATERIAL	MS	MATERIAL
MQ	MATERIAL	MS	MATERIAL
MR	MATERIAL	MS	MATERIAL
MS	MATERIAL	MS	MATERIAL
MT	MATERIAL	MS	MATERIAL
MU	MATERIAL	MS	MATERIAL
MV	MATERIAL	MS	MATERIAL
MW	MATERIAL	MS	MATERIAL
MX	MATERIAL	MS	MATERIAL
MY	MATERIAL	MS	MATERIAL
MZ	MATERIAL	MS	MATERIAL
NA	NATURAL	NS	NATURAL
NB	NATURAL	NS	NATURAL
NC	NATURAL	NS	NATURAL
ND	NATURAL	NS	NATURAL
NE	NATURAL	NS	NATURAL
NF	NATURAL	NS	NATURAL
NG	NATURAL	NS	NATURAL
NH	NATURAL	NS	NATURAL
NI	NATURAL	NS	NATURAL
NJ	NATURAL	NS	NATURAL
NK	NATURAL	NS	NATURAL
NL	NATURAL	NS	NATURAL
NM	NATURAL	NS	NATURAL
NN	NATURAL	NS	NATURAL
NO	NATURAL	NS	NATURAL
NP	NATURAL	NS	NATURAL
NQ	NATURAL	NS	NATURAL
NR	NATURAL	NS	NATURAL
NS	NATURAL	NS	NATURAL
NT	NATURAL	NS	NATURAL
NU	NATURAL	NS	NATURAL
NV	NATURAL	NS	NATURAL
NW	NATURAL	NS	NATURAL
NX	NATURAL	NS	NATURAL
NY	NATURAL	NS	NATURAL
NZ	NATURAL	NS	NATURAL
OA	OBSTRUCTION	OS	OBSTRUCTION
OB	OBSTRUCTION	OS	OBSTRUCTION
OC	OBSTRUCTION	OS	OBSTRUCTION
OD	OBSTRUCTION	OS	OBSTRUCTION
OE	OBSTRUCTION	OS	OBSTRUCTION
OF	OBSTRUCTION	OS	OBSTRUCTION
OG	OBSTRUCTION	OS	OBSTRUCTION
OH	OBSTRUCTION	OS	OBSTRUCTION
OI	OBSTRUCTION	OS	OBSTRUCTION
OJ	OBSTRUCTION	OS	OBSTRUCTION
OK	OBSTRUCTION	OS	OBSTRUCTION
OL	OBSTRUCTION	OS	OBSTRUCTION
OM	OBSTRUCTION	OS	OBSTRUCTION
ON	OBSTRUCTION	OS	OBSTRUCTION
OO	OBSTRUCTION	OS	OBSTRUCTION
OP	OBSTRUCTION	OS	OBSTRUCTION
OQ	OBSTRUCTION	OS	OBSTRUCTION
OR	OBSTRUCTION	OS	OBSTRUCTION
OS	OBSTRUCTION	OS	OBSTRUCTION
OT	OBSTRUCTION	OS	OBSTRUCTION
OU	OBSTRUCTION	OS	OBSTRUCTION
OV	OBSTRUCTION	OS	OBSTRUCTION
OW	OBSTRUCTION	OS	OBSTRUCTION
OX	OBSTRUCTION	OS	OBSTRUCTION
OY	OBSTRUCTION	OS	OBSTRUCTION
OZ	OBSTRUCTION	OS	OBSTRUCTION
PA	PAVEMENT	PS	PAVEMENT
PB	PAVEMENT	PS	PAVEMENT
PC	PAVEMENT	PS	PAVEMENT
PD	PAVEMENT	PS	PAVEMENT
PE	PAVEMENT	PS	PAVEMENT
PF	PAVEMENT	PS	PAVEMENT
PG	PAVEMENT	PS	PAVEMENT
PH	PAVEMENT	PS	PAVEMENT
PI	PAVEMENT	PS	PAVEMENT
PJ	PAVEMENT	PS	PAVEMENT
PK	PAVEMENT	PS	PAVEMENT
PL	PAVEMENT	PS	PAVEMENT
PM	PAVEMENT	PS	PAVEMENT
PN	PAVEMENT	PS	PAVEMENT
PO	PAVEMENT	PS	PAVEMENT
PP	PAVEMENT	PS	PAVEMENT
PQ	PAVEMENT	PS	PAVEMENT
PR	PAVEMENT	PS	PAVEMENT
PS	PAVEMENT	PS	PAVEMENT
PT	PAVEMENT	PS	PAVEMENT
PU	PAVEMENT	PS	PAVEMENT
PV	PAVEMENT	PS	PAVEMENT
PW	PAVEMENT	PS	PAVEMENT
PX	PAVEMENT	PS	PAVEMENT
PY	PAVEMENT	PS	PAVEMENT
PZ	PAVEMENT	PS	PAVEMENT
QA	QUARRY	QS</	



1. A REPORT HAS BEEN PRODUCED FOR THIS SURVEY.
2. SOME LEVELS MAY NOT BE SHOWN ON THIS PLOT DUE TO 'OVERWRITING'. REFER TO AUTOCAD FILE (LAYER 'OVER').
3. ALL CROSS-SECTIONS ARE VIEWED LOOKING DOWNSTREAM.

NOTES:

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
AS	AS BENCH	PS	POST & WIRE FENCE
BS	BENCH MARK	RS	ROAD SIGN
CS	CORNER	SS	STEEL SIGN
DS	DEPRESSION	TS	TRAIL SIGN
ES	EDGE OF ROAD	US	UTILITY SIGN
FS	FENCE	VS	VERTICAL SIGN
GS	GRASS	WS	WATER SIGN
HS	HARD BED	XS	WOOD SIGN
IS	IRON PIPE	YS	YIELD SIGN
JS	JUNCTION	ZS	ZONE SIGN
KS	KILN	AS	AS BENCH
LS	LANDFILL	BS	BENCH MARK
MS	MOUND	CS	CORNER
NS	NATURAL	DS	DEPRESSION
OS	OBSTACLE	ES	EDGE OF ROAD
PS	POST & WIRE FENCE	FS	FENCE
QS	QUARRY	GS	GRASS
RS	ROAD SIGN	HS	HARD BED
SS	STEEL SIGN	IS	IRON PIPE
TS	TRAIL SIGN	JS	JUNCTION
US	UTILITY SIGN	KS	KILN
VS	VERTICAL SIGN	LS	LANDFILL
WS	WATER SIGN	MS	MOUND
XS	WOOD SIGN	NS	NATURAL
YS	YIELD SIGN	OS	OBSTACLE
ZS	ZONE SIGN	PS	POST & WIRE FENCE

REV.	AMENDMENT	DRN	CHKD	DATE

CONTROL USED:	TYPE	DESCRIPTION	LEVEL
E20511517	SK96626817	7.044	
E20511538	SK96576513	6.734	
E20512456	SK94536285	6.978	
E20512789	SK96216390	7.583	
E20512428	Destroyed		
E60512814	SK91846277	8.962	

Environment Agency

PROJECT/WATERCOURSE
WITHAM CHANNEL SURVEY

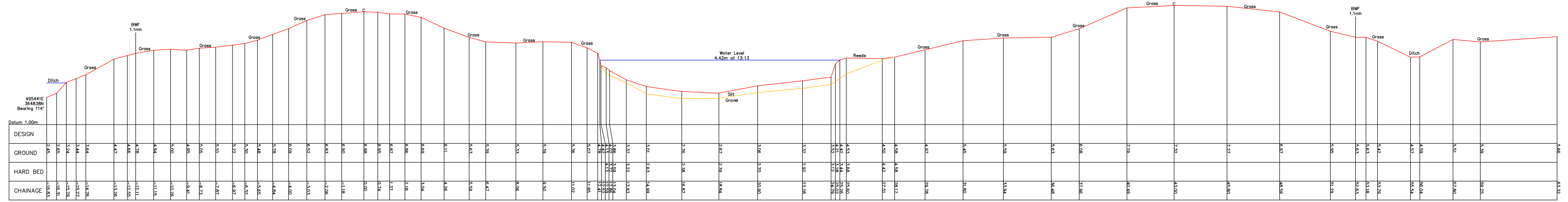
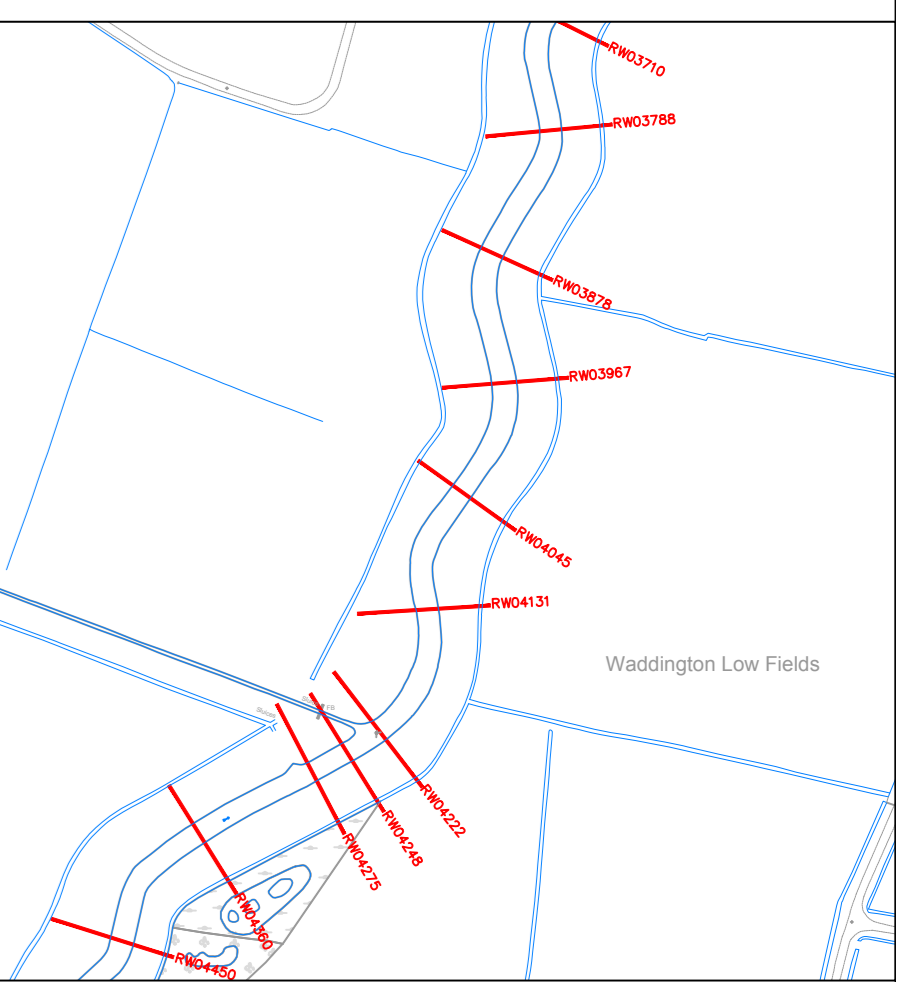
SITE/LIMITS
SK96616819 to SK91286252
Cross Sections
RW03200 to RW03507

SURVEYED BY: Malcolm Hughes *Rev 52584*
SURVEY DATE: November 2018

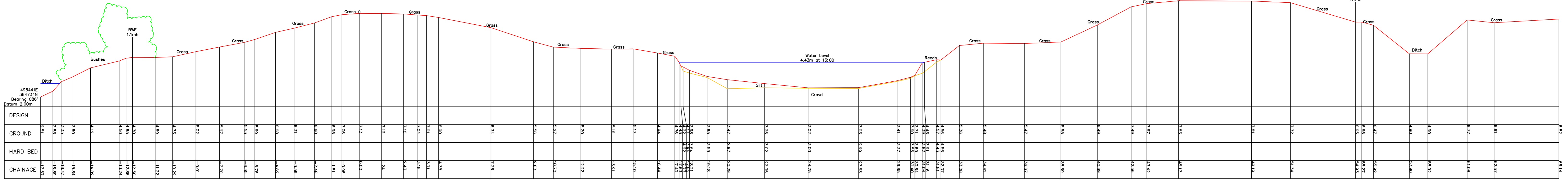
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GRID: National

DRN: K.D.L.
DATE: DEC 18
DRAWING NO: X-J01434-08

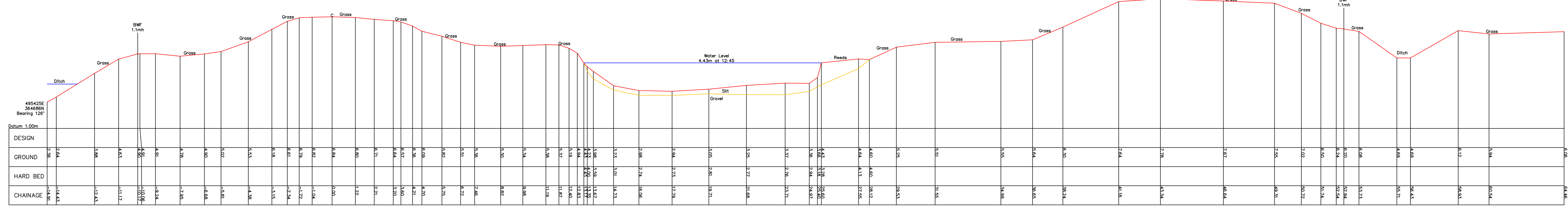
CHKD: T.P.
DATE: DEC 18
REV.



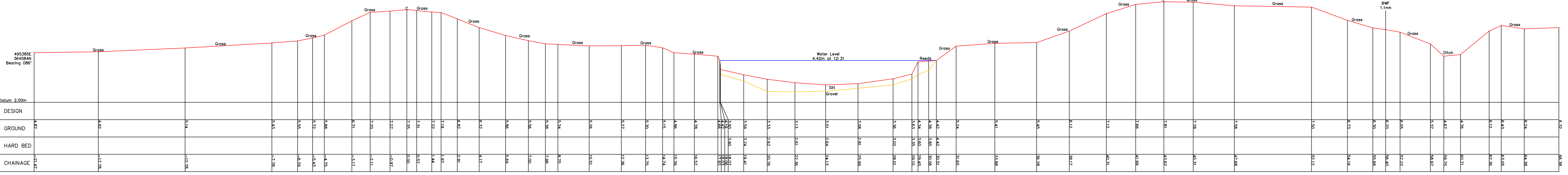
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CHANNEL - 3378
Date of Survey - 24/10/18



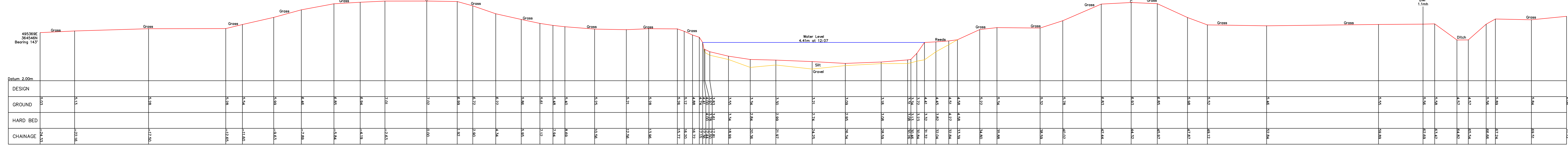
SECTION - RW0387
CHANNEL - 3387
Date of Survey - 24/10/18



SECTION - RW0405
CHANNEL - 4005
Date of Survey - 24/11/18



SECTION - RW0417
CHANNEL - 4117
Date of Survey - 24/11/18

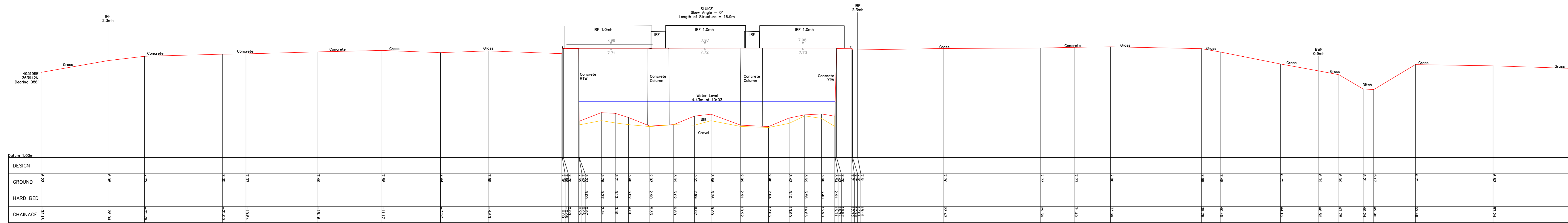


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CHANNEL - 4222
Date of Survey - 24/11/18

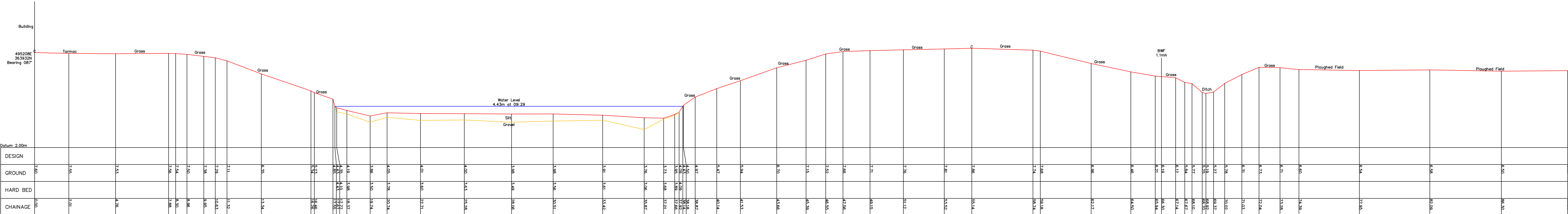
1. A REPORT HAS BEEN PRODUCED FOR THIS SURVEY.
2. SOME LEVELS MAY NOT BE SHOWN ON THIS PLOT DUE TO OVERRITING. REFER TO AUTOCAD FILE (LAYER 'OVER').
3. ALL CROSS-SECTIONS ARE VIEWED LOOKING DOWNSTREAM.

NOTES:

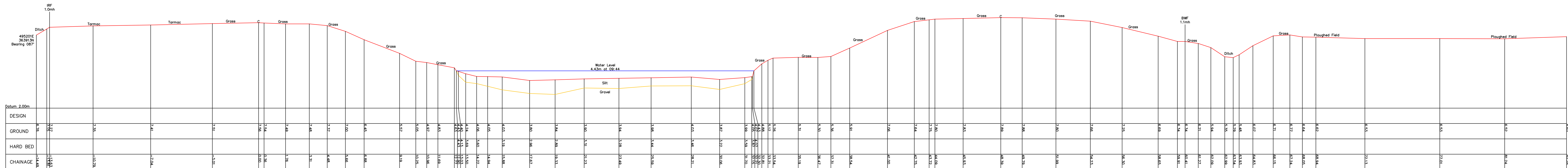
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CH	CHAINAGE	GR	GRAVEL
CL	CL	GRASS	GRASS
CO	CO	GRASS	GRASS
CR	CR	GRASS	GRASS
CS	CS	GRASS	GRASS
CT	CT	GRASS	GRASS
CU	CU	GRASS	GRASS
CV	CV	GRASS	GRASS
CW	CW	GRASS	GRASS
CX	CX	GRASS	GRASS
CY	CY	GRASS	GRASS
CZ	CZ	GRASS	GRASS
DA	DA	GRASS	GRASS
DB	DB	GRASS	GRASS
DC	DC	GRASS	GRASS
DD	DD	GRASS	GRASS
DE	DE	GRASS	GRASS
DF	DF	GRASS	GRASS
DG	DG	GRASS	GRASS
DH	DH	GRASS	GRASS
DI	DI	GRASS	GRASS
DJ	DJ	GRASS	GRASS
DK	DK	GRASS	GRASS
DL	DL	GRASS	GRASS
DM	DM	GRASS	GRASS
DN	DN	GRASS	GRASS
DO	DO	GRASS	GRASS
DP	DP	GRASS	GRASS
DQ	DQ	GRASS	GRASS
DR	DR	GRASS	GRASS
DS	DS	GRASS	GRASS
DT	DT	GRASS	GRASS
DU	DU	GRASS	GRASS
DV	DV	GRASS	GRASS
DW	DW	GRASS	GRASS
DX	DX	GRASS	GRASS
DY	DY	GRASS	GRASS
DZ	DZ	GRASS	GRASS
EA	EA	GRASS	GRASS
EB	EB	GRASS	GRASS
EC	EC	GRASS	GRASS
ED	ED	GRASS	GRASS
EE	EE	GRASS	GRASS
EF	EF	GRASS	GRASS
EG	EG	GRASS	GRASS
EH	EH	GRASS	GRASS
EI	EI	GRASS	GRASS
EJ	EJ	GRASS	GRASS
EK	EK	GRASS	GRASS
EL	EL	GRASS	GRASS
EM	EM	GRASS	GRASS
EN	EN	GRASS	GRASS
EO	EO	GRASS	GRASS
EP	EP	GRASS	GRASS
EQ	EQ	GRASS	GRASS
ER	ER	GRASS	GRASS
ES	ES	GRASS	GRASS
ET	ET	GRASS	GRASS
EU	EU	GRASS	GRASS
EV	EV	GRASS	GRASS
EW	EW	GRASS	GRASS
EX	EX	GRASS	GRASS
EY	EY	GRASS	GRASS
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FA	FA	GRASS	GRASS
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FG	FG	GRASS	GRASS
FH	FH	GRASS	GRASS
FI	FI	GRASS	GRASS
FJ	FJ	GRASS	GRASS
FK	FK	GRASS	GRASS
FL	FL	GRASS	GRASS
FM	FM	GRASS	GRASS
FN	FN	GRASS	GRASS
FO	FO	GRASS	GRASS
FP	FP	GRASS	GRASS
FQ	FQ	GRASS	GRASS
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FS	FS	GRASS	GRASS
FT	FT	GRASS	GRASS
FU	FU	GRASS	GRASS
FV	FV	GRASS	GRASS
FW			



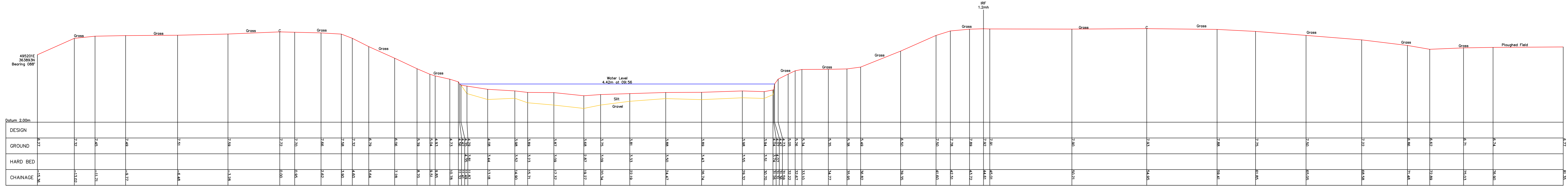
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Channel - 4895
Date of Survey - 16/11/18



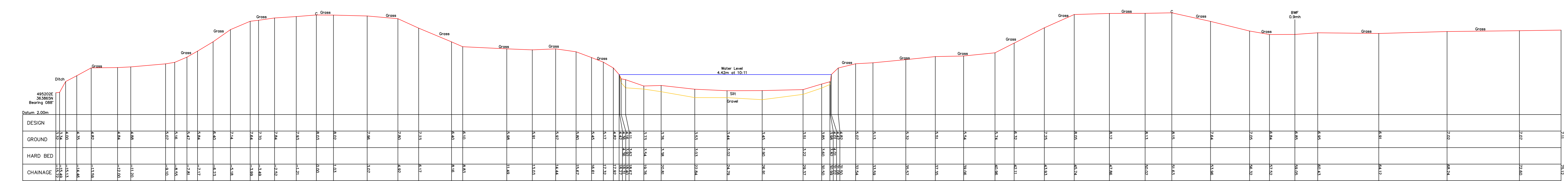
SECTION - RW04906
Channel - 4906
Date of Survey - 25/11/18



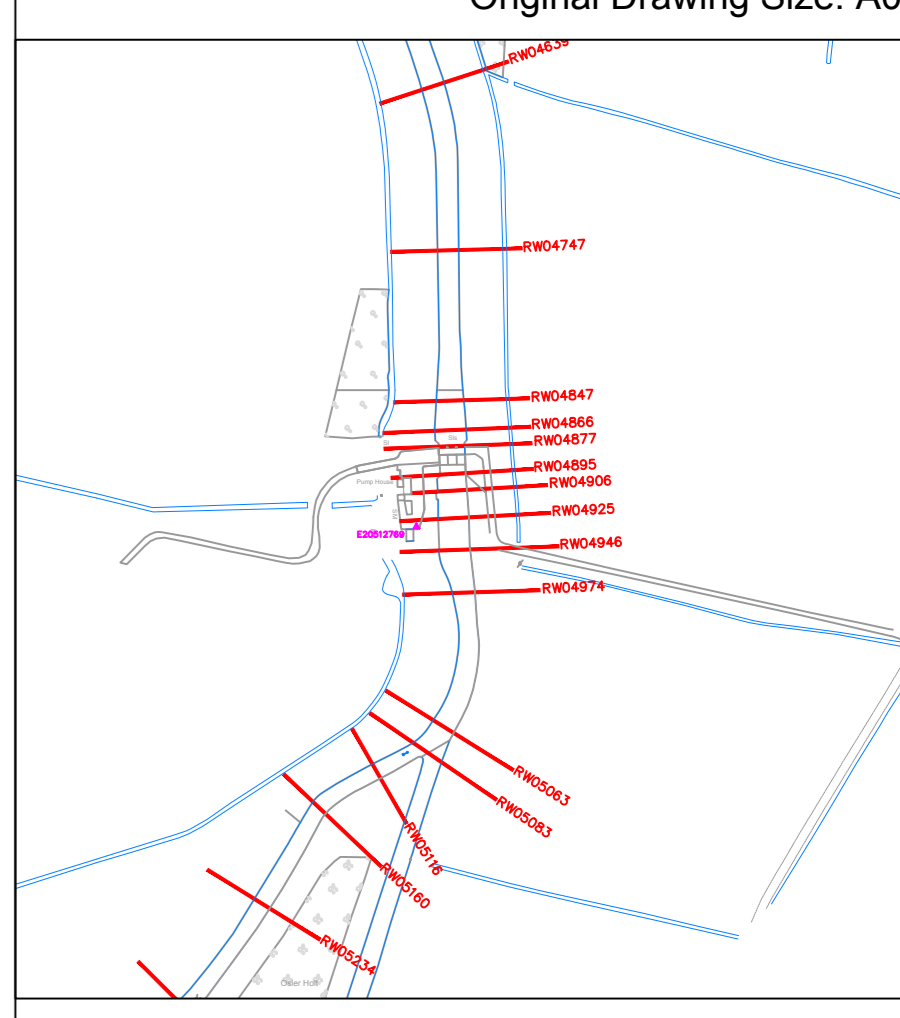
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Channel - 4925
Date of Survey - 25/11/18



SECTION - RW04946
Channel - 4946
Date of Survey - 25/11/18



SECTION - RW04974
Channel - 4974
Date of Survey - 25/11/18



- 1. A REPORT HAS BEEN PRODUCED FOR THIS SURVEY.
- 2. SOME LEVELS MAY NOT BE SHOWN ON THIS PLOT DUE TO 'OVERWRITING'. REFER TO AUTOCAD FILE (LAYER 'OVER').
- 3. ALL CROSS-SECTIONS ARE VIEWED LOOKING DOWNSTREAM.

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
AR	AS BENCH	FW	FIELD WORK
BB	BANK BENCH	GL	GRASS
BR	BANK ROAD	GR	GRAVEL
BS	BANK SIGN	HT	HIGHWAY TOLERANCE
BT	BANK TOP	IC	ICE
BU	BANK UNDER	IL	ICE LAYER
BU	BANK UNDER	IM	ICE MELT
BU	BANK UNDER	IN	ICE NEST
BU	BANK UNDER	IR	ICE RAMP
BU	BANK UNDER	IS	ICE SIGN
BU	BANK UNDER	IT	ICE TOWER
BU	BANK UNDER	IV	ICE VALVE
BU	BANK UNDER	IX	ICE WALL
BU	BANK UNDER	IZ	ICE ZONE
BU	BANK UNDER	JA	JUNCTION
BU	BANK UNDER	JB	JUNCTION BENCH
BU	BANK UNDER	JC	JUNCTION CHAMBER
BU	BANK UNDER	JD	JUNCTION DRAIN
BU	BANK UNDER	JE	JUNCTION ELEVATION
BU	BANK UNDER	JF	JUNCTION FENCE
BU	BANK UNDER	JG	JUNCTION GATE
BU	BANK UNDER	JH	JUNCTION HOLE
BU	BANK UNDER	JJ	JUNCTION JUMP
BU	BANK UNDER	JK	JUNCTION KICK
BU	BANK UNDER	JL	JUNCTION LAMP
BU	BANK UNDER	JM	JUNCTION MOUND
BU	BANK UNDER	JN	JUNCTION NEST
BU	BANK UNDER	JO	JUNCTION OIL
BU	BANK UNDER	JP	JUNCTION PILE
BU	BANK UNDER	JQ	JUNCTION QUARRY
BU	BANK UNDER	JR	JUNCTION RAMP
BU	BANK UNDER	JS	JUNCTION SIGN
BU	BANK UNDER	JT	JUNCTION TOWER
BU	BANK UNDER	JU	JUNCTION UNDER
BU	BANK UNDER	JV	JUNCTION VALVE
BU	BANK UNDER	JW	JUNCTION WALL
BU	BANK UNDER	JX	JUNCTION X
BU	BANK UNDER	JY	JUNCTION Y
BU	BANK UNDER	JZ	JUNCTION Z
BU	BANK UNDER	KA	KICK
BU	BANK UNDER	KB	KICK BENCH
BU	BANK UNDER	KC	KICK CHAMBER
BU	BANK UNDER	KD	KICK DRAIN
BU	BANK UNDER	KE	KICK ELEVATION
BU	BANK UNDER	KF	KICK FENCE
BU	BANK UNDER	KG	KICK GATE
BU	BANK UNDER	KH	KICK HOLE
BU	BANK UNDER	KI	KICK JUMP
BU	BANK UNDER	KJ	KICK KICK
BU	BANK UNDER	KK	KICK MOUND
BU	BANK UNDER	KL	KICK NEST
BU	BANK UNDER	KM	KICK OIL
BU	BANK UNDER	KN	KICK PILE
BU	BANK UNDER	KO	KICK QUARRY
BU	BANK UNDER	KP	KICK RAMP
BU	BANK UNDER	KQ	KICK SIGN
BU	BANK UNDER	KR	KICK TOWER
BU	BANK UNDER	KS	KICK UNDER
BU	BANK UNDER	KT	KICK VALVE
BU	BANK UNDER	KU	KICK WALL
BU	BANK UNDER	KV	KICK X
BU	BANK UNDER	KW	KICK Y
BU	BANK UNDER	KX	KICK Z
BU	BANK UNDER	KA	KICK
BU	BANK UNDER	KB	KICK BENCH
BU	BANK UNDER	KC	KICK CHAMBER
BU	BANK UNDER	KD	KICK DRAIN
BU	BANK UNDER	KE	KICK ELEVATION
BU	BANK UNDER	KF	KICK FENCE
BU	BANK UNDER	KG	KICK GATE
BU	BANK UNDER	KH	KICK HOLE
BU	BANK UNDER	KI	KICK JUMP
BU	BANK UNDER	KJ	KICK KICK
BU	BANK UNDER	KK	KICK MOUND
BU	BANK UNDER	KL	KICK NEST
BU	BANK UNDER	KM	KICK OIL
BU	BANK UNDER	KN	KICK PILE
BU	BANK UNDER	KO	KICK QUARRY
BU	BANK UNDER	KP	KICK RAMP
BU	BANK UNDER	KQ	KICK SIGN
BU	BANK UNDER	KR	KICK TOWER
BU	BANK UNDER	KS	KICK UNDER
BU	BANK UNDER	KT	KICK VALVE
BU	BANK UNDER	KU	KICK WALL
BU	BANK UNDER	KV	KICK X
BU	BANK UNDER	KW	KICK Y
BU	BANK UNDER	KX	KICK Z

REV.	AMENDMENT	DRN	CHKD	DATE

CONTROL USED:	TYPE	DESCRIPTION	LEVEL	CONTROL USED:	TYPE	DESCRIPTION	LEVEL
E20511517	SK98626817	7.044	-				
E20511518	SK98576513	6.733	-				
E20512456	SK94536285	6.978	-				
E20512788	SK9216390	7.583	-				
E20512429	Destroyed		-				
E60512614	SK91846277	8.962	-				

Environment Agency

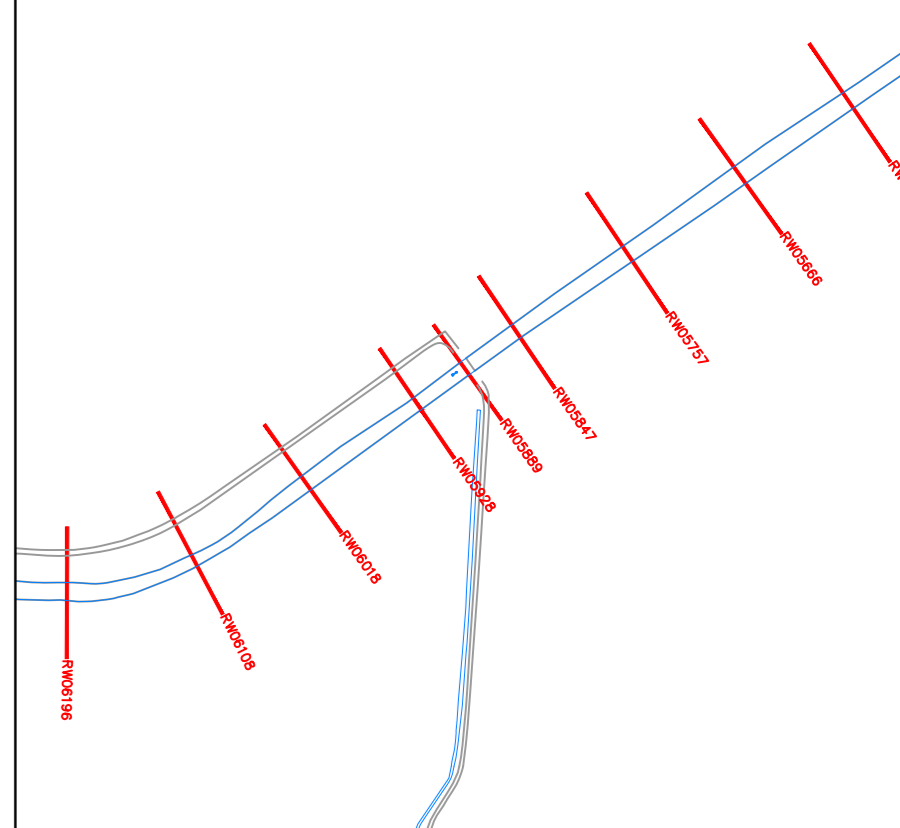
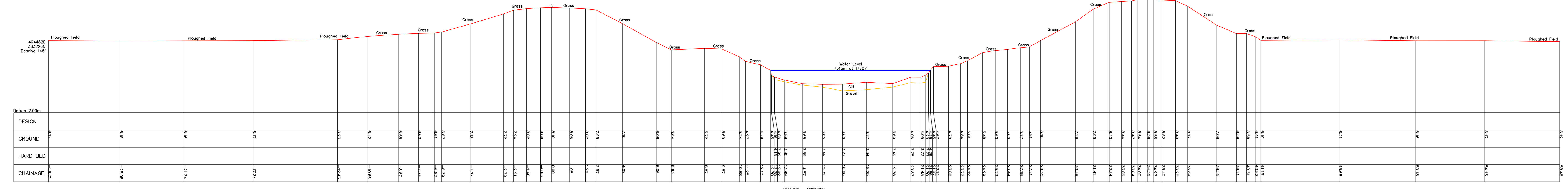
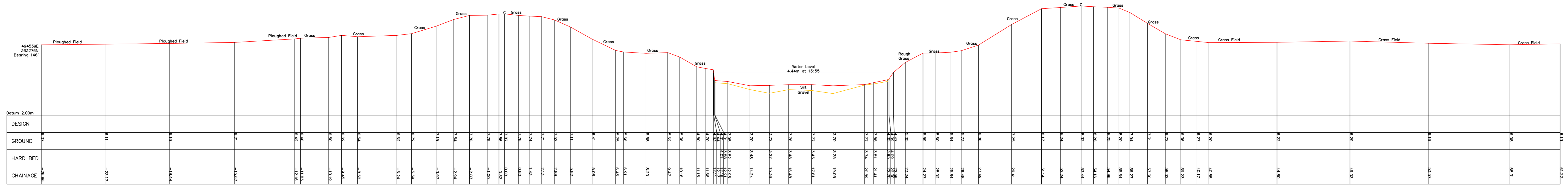
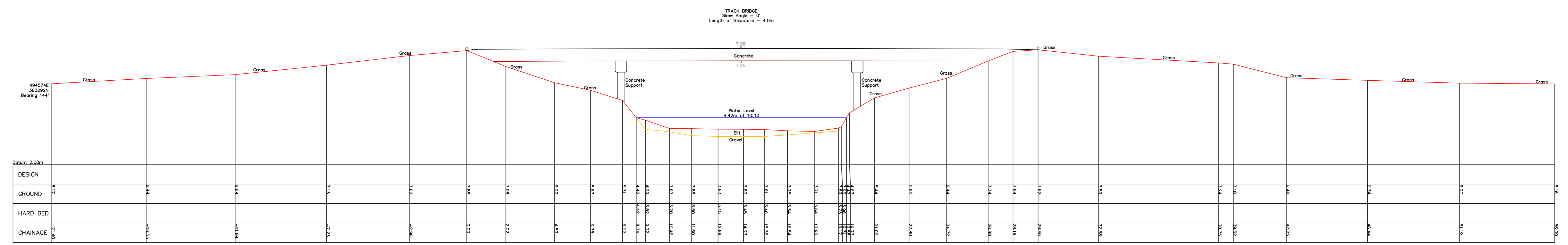
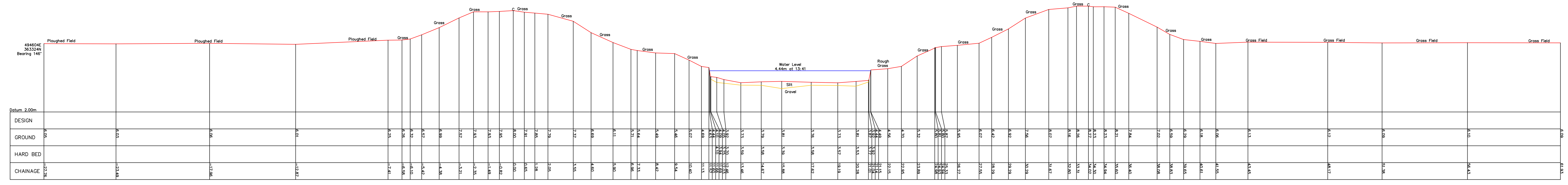
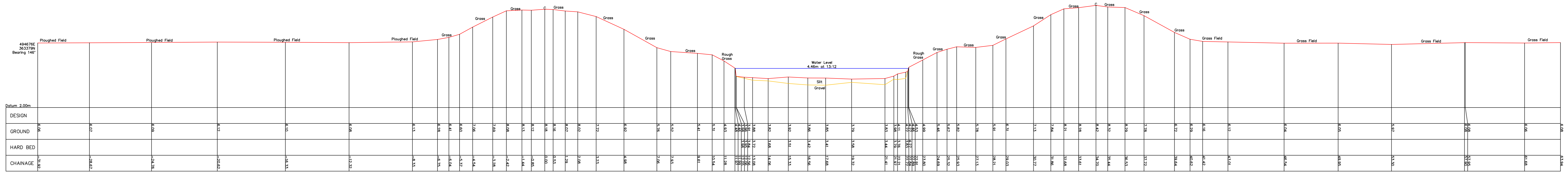
PROJECT/WATERCOURSE
WITHAM CHANNEL SURVEY

SITE/LIMITS
SK96616819 to SK91286252
Cross Sections
RW04895 to RW04974

SURVEYED BY: Malcolm Hughes *Rev 52584*
SURVEY DATE: November 2018

SCALE: 1:00
DATE: DEC 18
GRID: National

CHKD: T.P.
DATE: DEC 18
DRAWING NO: X-J01434-13



1. A REPORT HAS BEEN PRODUCED FOR THIS SURVEY.
2. SOME LEVELS MAY NOT BE SHOWN ON THIS PLOT DUE TO OVERWRITING. REFER TO AUTOCAD FILE (LAYER 'OVER').
3. ALL CROSS-SECTIONS ARE VIEWED LOOKING DOWNSTREAM.

NOTES:

REV.	AMENDMENT	DRN	CHKD	DATE

CONTROL USED:	TYPE	DESCRIPTION	LEVEL	CONTROL USED:	TYPE	DESCRIPTION	LEVEL
E20511517	SK96626817	7.044	-				
E20511539	SK9576513	5.733					
E20512456	SK94656265	6.978					
E20512769	SK95216390	7.583					
E20512429	Destroyed						
E60512814	SK91846277	8.962					



PROJECT/WATERCOURSE
WITHAM CHANNEL SURVEY

SITE/LIMITS
SK96616819 to SK91286252
Cross Sections
RW05757 to RW06018

SURVEYED BY: Malcolm Hughes Ref: 52584

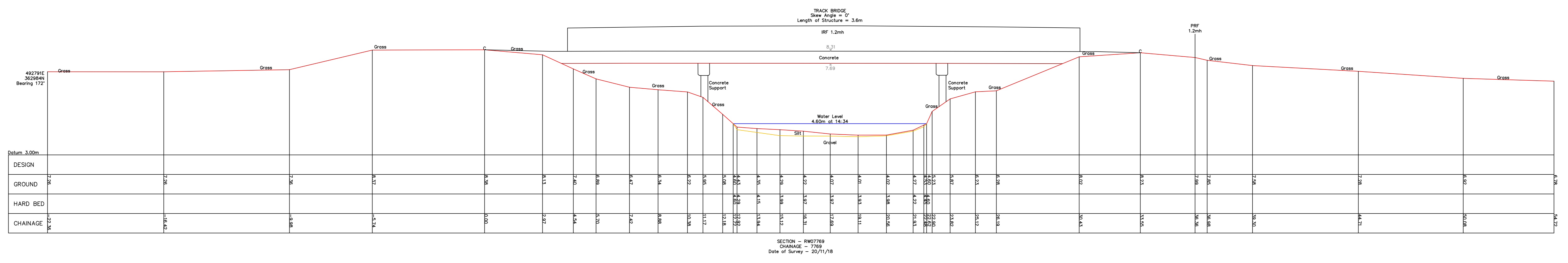
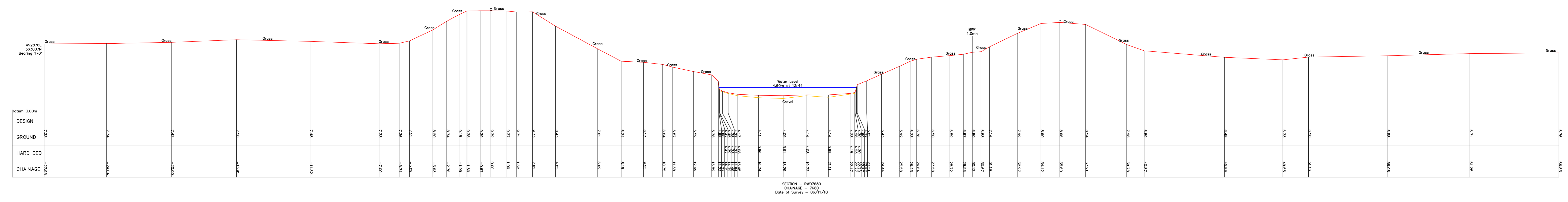
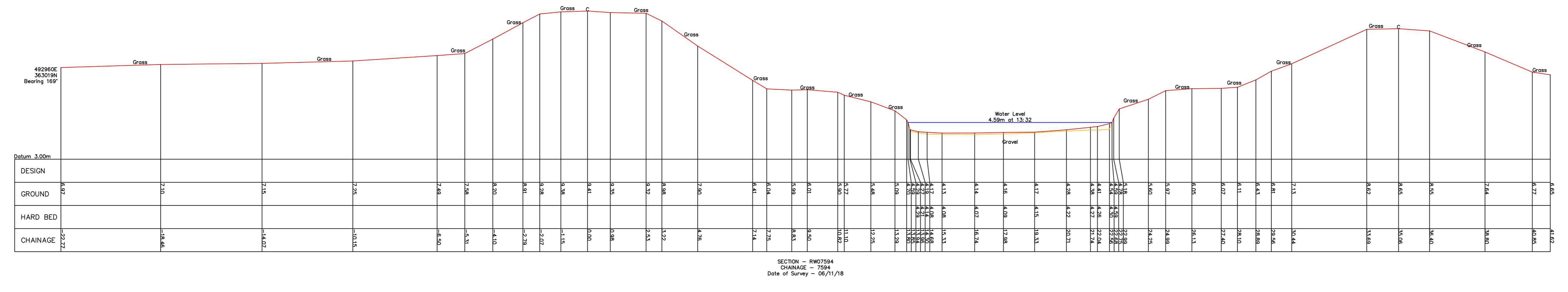
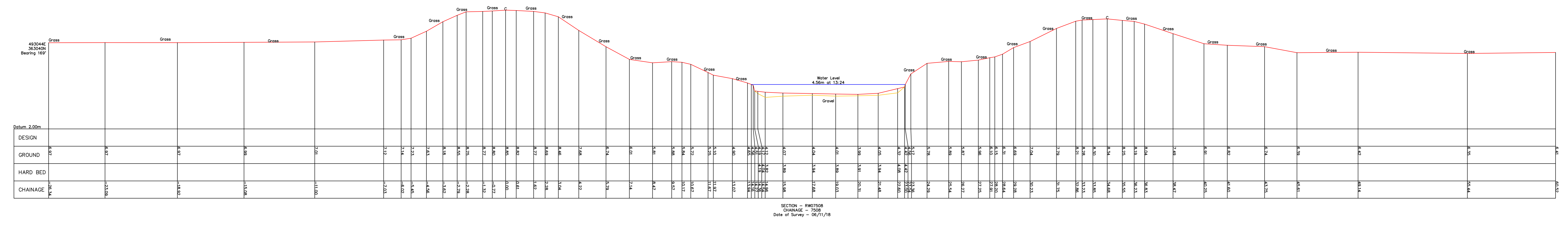
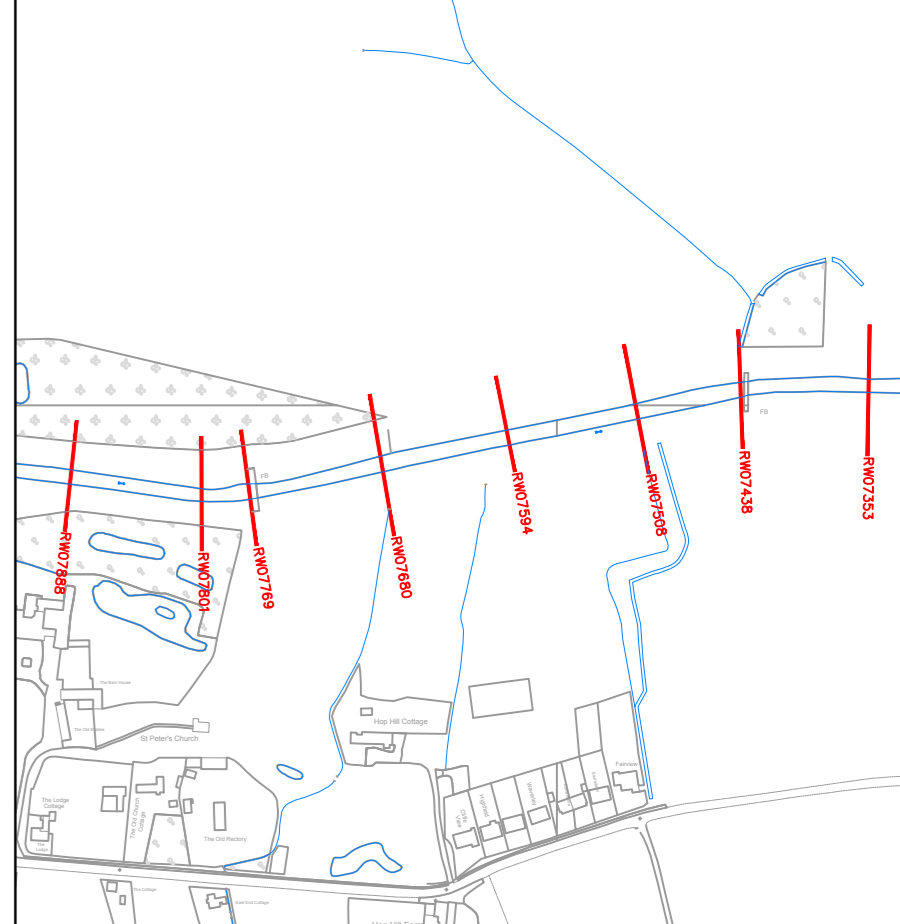
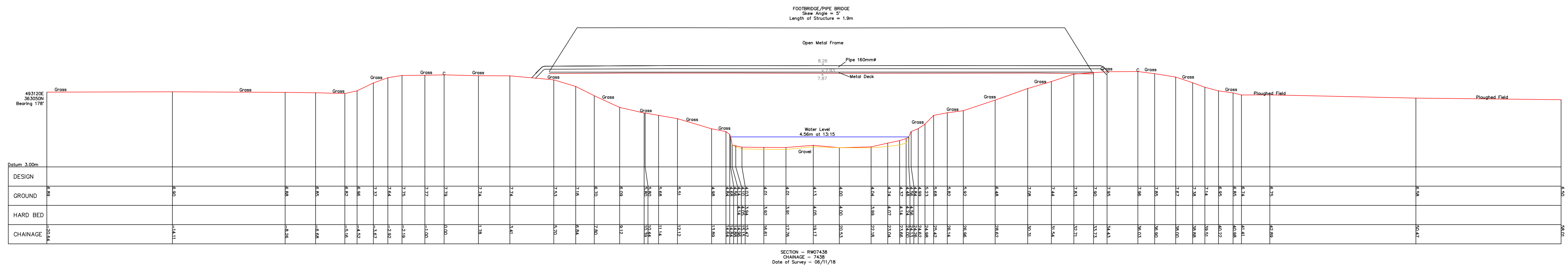
SURVEY DATE: November 2018

SCALE: 1:00 DRN: K.D.L. CHKD: T.P.

DATUM: ODN DATE: DEC 18 DATE: DEC 18

GRID: National DRAWING NO. X-J01434-16 REV.

CAD FILENAME: X-J01434.dwg



- 1. A REPORT HAS BEEN PRODUCED FOR THIS SURVEY.
- 2. SOME LEVELS MAY NOT BE SHOWN ON THIS PLOT DUE TO 'OVERWRITING'. REFER TO AUTOCAD FILE (LAYER 'OVER').
- 3. ALL CROSS-SECTIONS ARE VIEWED LOOKING DOWNSTREAM.

NOTES:

SUBVEY LEGEND	
AS	AS BENCH
BS	BS BENCH
CH	CH BENCH
...	...

CONTROL USED:	TYPE	DESCRIPTION	LEVEL
E20511517	SK96626817	7.044	
E20511539	SK96576518	5.735	
E20512456	SK94536265	6.976	
E20512789	SK95216390	7.583	
E20512428	Destroyed		
E60512814	SK91846277	8.962	



PROJECT/WATERCOURSE: WITHAM CHANNEL SURVEY

SITE/LIMITS: SK96616819 to SK91286252
Cross Sections RW07438 to RW07769

SURVEYED BY: Malcolm Hughes *Rev 52584*

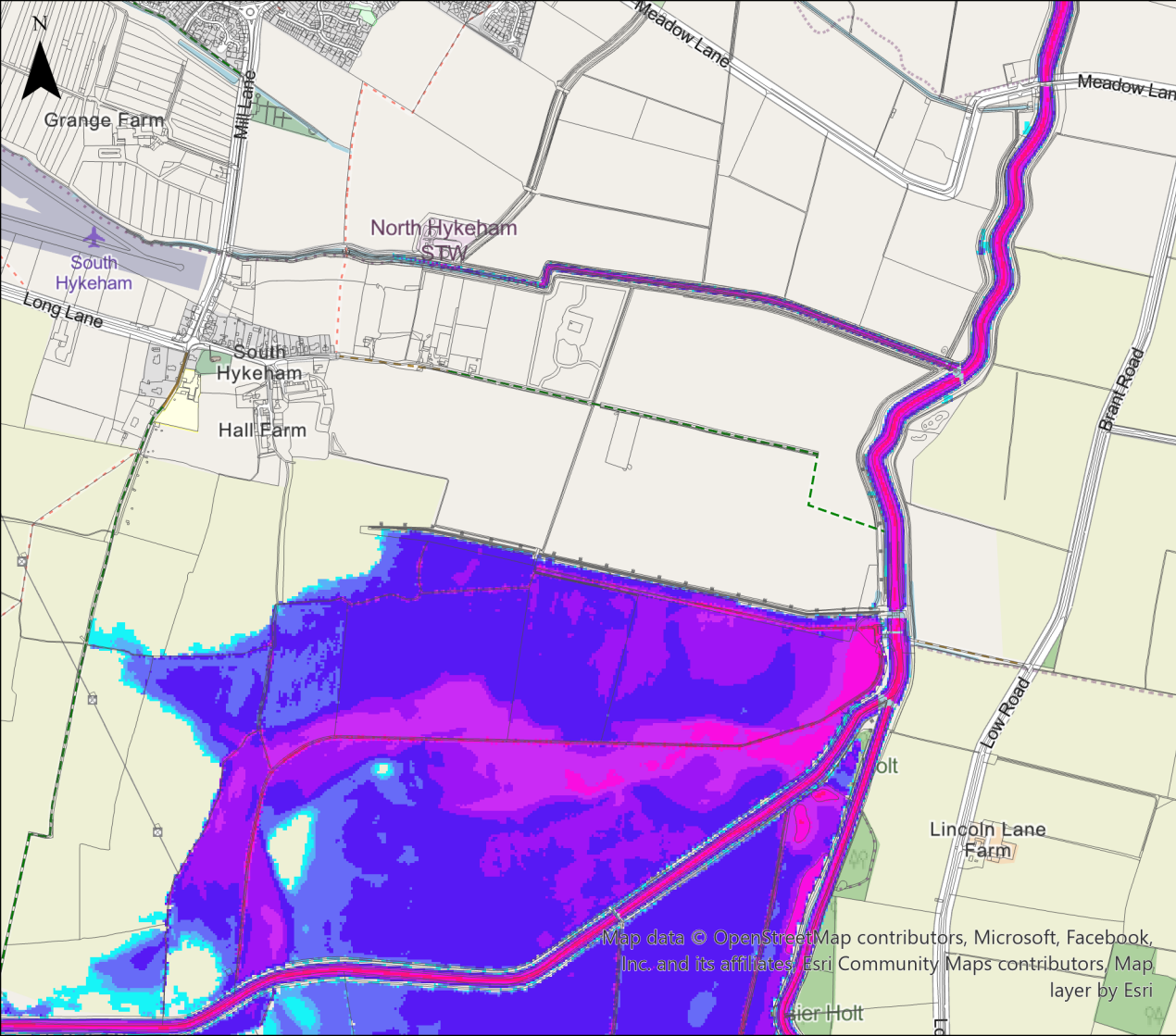
SURVEY DATE: November 2018

SCALE: 1:00 | DRN: K.D.L. | CHKD: T.P.

DATUM: ODN | DATE: DEC 18 | DATE: DEC 18

GRID: National | DRAWING NO: X-J01434-20

APPENDIX 4 NHRR HYDRAULIC MODEL RESULTS MAPPING



Legend

Baseline 100-year
Depth (m)

- < 0.1
- 0.1 - 0.2
- 0.2 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- 3.0 <

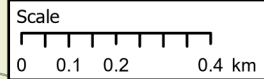


Figure Title
 NHRR Hydraulic Modelling
 Flood Depths

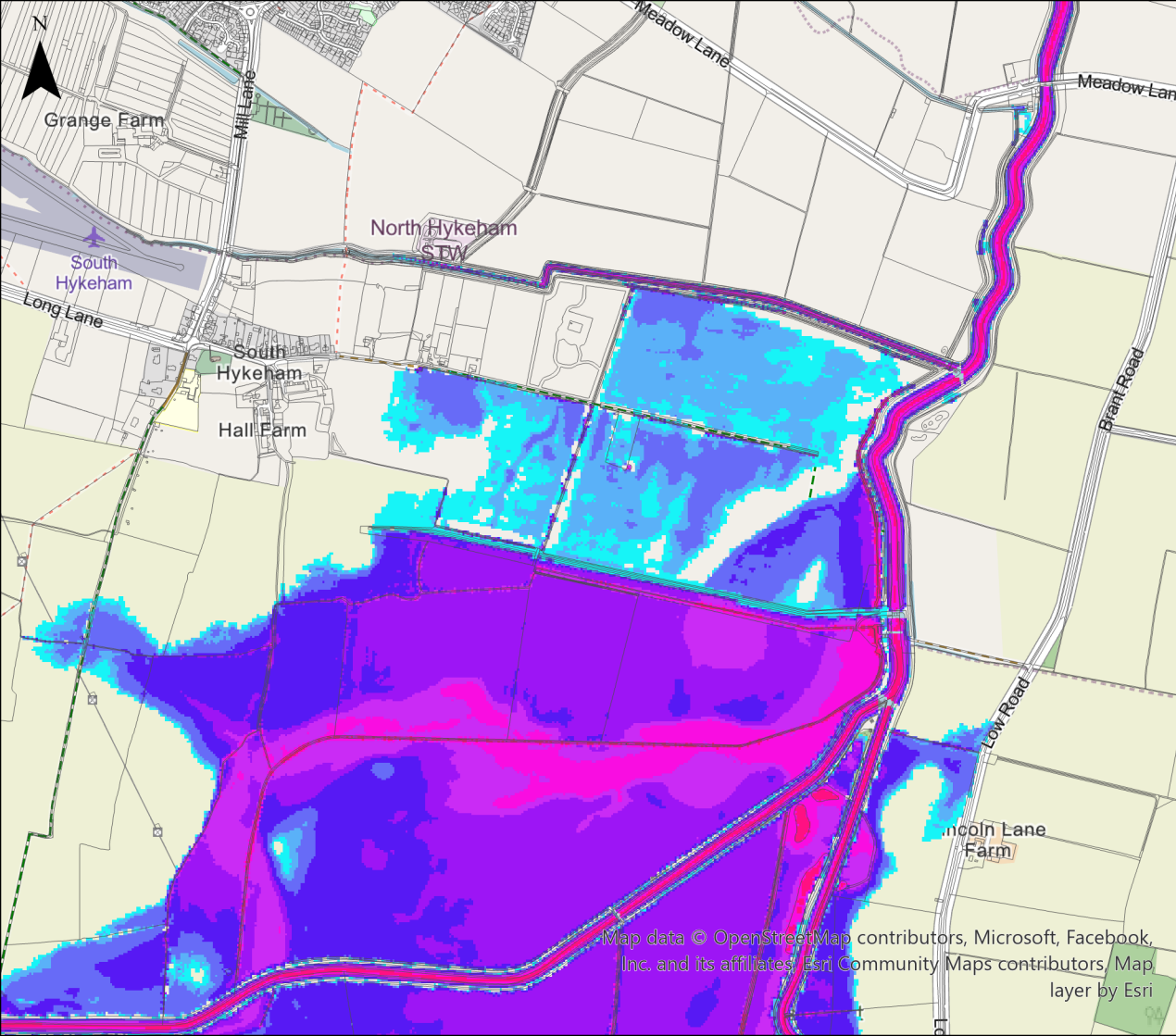
Project Name
 North Hykeham
 Relief Road

Project Number 1620013942	Issue 1
Date June 2023	Prepared By HN

Client
 Balfour Beatty



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Legend

Baseline 100-year Climate Change (2080 Higher)

Depth (m)

- < 0.1
- 0.1 - 0.2
- 0.2 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- 3.0 <

Scale

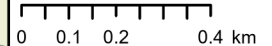


Figure Title

**NHRR Hydraulic Modelling
Flood Depths**

Project Name

**North Hykeham
Relief Road**

Project Number

1620013942

Issue

1

Date

June 2023

Prepared By

HN

Client

Balfour Beatty

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