

The locations of all the soughs found are to be shown on the section. The location of all incoming pipes and ducts are to be shown. The drawing is to be annotated to show the measured diameters of the pipes, together

FABER MAUNSELL	Project	Buxton Crescer	nt and Spa		Briefing Sheet 1/F
Marlborough House	Survey of the River Wye Culvert				Job Ref 37900 ESC
Sam Albans AL1 3UT	Prep. by MJW	Date 09 Sept 04	Chck'd PRH	Date 6 Oct 04	Page 2 of 7
with the surveyed invert manhole accesses throu	level at the poin igh the crown, a	t of entry to the nd sides, are to	culvert of all pipe be shown.	es and soughs.	The locations of all
Four cross sections The four cross sections the soughs at their entry	on the culvert lir points to the cu	ne, as shown on Ilvert.	plan on page 3,	together with cr	oss sections of each of
<u>Datum</u> . All levels are to be to the	e Ordnance Dati	um.			
Tying in of the culvert su A copy of the Aedas gro point on the Aedas surve that the two surveys do	irvey to the mair und level survey ey are to be surv coordinate.	n survey underta / will be emailed /eyed by the cul	iken by Aedas to the culvert su vert surveyor, in	urveyor by Faber both plan and le	Maunsell. Three check evel, to demonstrate
At each sough position Annotate drawing to sho Measure and record the Estimate of the discharg At six sough positions co Hall Reception, if Hydro the Hydro Geotechnical	w inclination an water temperat e rate, using bu bllect 2 samples geologists / Eng Engineer followi	d observed statu ure and electrica cket and stop wa of 1 litre each o jineer / Architect ing completion c	us: blocked / och al conductivity at atch. n the same day, t not present. Th of the measured	nrous / running. points of discha label clearly and sampling locat survey.	irge. d leave at the Town tions to be agreed with
Leakage points into the Record on the drawing lo recorded. Where there is drawings, annotate them Record presence of min- height from surface of cu	culvert away fro eakage points w is leakage into tl n as "leakage po eral deposits at ulvert wall	m the soughs. here there is dis he culvert simila ints" and record seepage points	scernable flow. S r to that of a sou discharge rate t and approximat	Simply glistening Igh, record leaka using bucket and te dimensions in	g water not to be age point on the d stop watch. terms of plan and
Measurement of the wat The presence of standin level there abouts.	<u>er level "D" abo</u> g waves in the t	<u>ve.</u> unnel is recogni	sed. These leve	ls are to be best	estimates of the water
Measurement of the inve It is not known whether t the best estimates of the	ert level "E" abov the invert is a sn e invert thereabo	<u>ve.</u> nooth brick lining puts.	g, or a rough, as	-cut rock lining. <sup>-</sup>	These levels are to be
Note on the drawing the construction changes.	invert construct	ion (rock, brick o	or silt). Note on	the drawing whe	n the invert
Invert level To be the "best estimate	" of the invert le	vel, assuming th	nat the invert is a	a rivened surface	
<u>Safety</u> A copy of the Designer's the Surveyors Method S	Hazard Assess tatement has be	ments sheet is a en accepted.	attached. No en	ntry is to be made	e into the culvert, until
<u>Culvert Ownership</u> The culver <u>t is under the</u> Engineer is Ian Nicholls	ownership of Hi The Environme	gh Peak Boroug nt Agency will b	h Council, who a e informed of thi	are aware of this is survey before	survey. The local the works commence.
Culvert Lighting The culvert has no lightin provided by him.	ng in it.  The Su	rveyor is to prov	ide appropriate l	lighting, from a g	enerating source
Flash Flooding					

FABER MAUNSELI	Project <b>E</b>	Buxton Crescer	nt and Spa		Briefin	g Sheet 1/F
Marlborough House		Survey of the Riv	ver Wye Culvert		Job Ref	37900 ESC
Saint Albans AL1 3UT	Prep. by MJW	Date 09 Sept 04	Chck'd PRH	Date 6 Oct 04	Page	3 of 7
The Surveyor is to note occur on the River Wye	, when preparing	his Method Sta	tement and Risk	Analyses, that t	flash floo	ding does
<u>Planning Supervisor</u> The Planning Superviso Warwickshire, CV32 50	or for the project L. Tel: 01926 4	is: Peter Robbin 29444. email pr	s, Northcroft, 3 ( obbins@northcr	Clarendon Place oft.co.uk.	, Leamin	gton Spa,
Advance Information The Surveyor is to prov emails to the five addre	ide a plot, in plar sses listed below	n, of the souther	n culvert line , B	, as early as pos	sible as <i>i</i>	Autocad
Prints and CD disksAutocad release 2002 (C1) Michael West, I Hertfordshire, A2) Philip Smart, Fa (philip.smart@f3) Erica Gardner, (ericagardner@4) Clive Carpenter Market Street, (C5) Martin Tunniclif (martin.tunniclif	CDs of the survey FaberMaunsell, N L1 3UT (tel: 020 aberMaunsell, Be <u>abermaunsell.co</u> Edmund Kirby A <u>edmundkirby-m.</u> r, Geoffrey Walto Charlbury, Oxford fe, Building Serv fe@bspltd.co.uk	y to be emailed t Marlborough Hou 8784 5784) (mi eaufort House, 9 <u>m)</u> rchitects, 8 King <u>co.uk</u> ) on, Mining Geolo d. OX7 3PJ. (gw ices Partnership	to: use, Upper Marll ike.west@faberr 4/96 Newhall St Street, Manche gists and Geote p@gwalton.co.u , ERI House, 19	borough Road, S naunsell.com) reet, Birminghar ster, M2 6AQ. chnical Enginee ık) Hereward Rise,	Saint Alba n,B3 1PE rs, Upton , Halesov	ans, 3. House, ven, B62 8AN.
Additional Information	ringl agation of the	authort in the wee	torn costion, and	was appatriated a	round 170	
(a) The ong integrity	is not known.	cuivert is the wes	tern section, and	was constructed a		
(b) The orig	jinal culvert has be	en extended to th	e east at least on	two occasions.		
(c) Structur	al repairs have be	en undertaken to t	he culvert in rece	nt times.s		
Additional Information req	uired, following wa	de through the cu	lvert on Wednesd	ay 8 December		
(i) Identify the s	oughs and pipes v	which drain chaleb	oyte springs (Brigh	t orange tongues)		"F"
(ii) Record the le	ocation of the two	weirs which are ju	st upstream of the	e road crossing.		
(iii) At the two w	eirs, record the wa	ter depth and wat	er levels imediate	ly before and after	each wei	r.
(iv) At each sou	gh entrance, record	d both the bottom	and the top levels	of the markedly s	loping inv	ert stone slabs.
(v) Below the Sprovide an o	oring Gardens Sho bstruction to the riv	opping Centre, rec ver flow.	ord the downstand	d concrete beams	in the ceil	ing, which
(vi) It is recognis cannot be u cross section	ed that, with the do se in the tunnel. V n is drawn for each	epth of water foun Vith the reversion I length of tunnel o	d in the culvert av to conventional su construction type.	vay from the entra urveying methods,	nces, that ensure th	a laser scanner at a typical
(vii) Survey the s culvert, for la	econd tunnel unde ater incorporation in	er the shopping ce n the FM Flood Ri	ntre car park and sk analysis.	access roads, just	downstre	am of the
(viii) Record the t	wo pipes which tra	verse the culvert,	and which provide	e an obstruction to	the river	flow.
(ix) Where the sirecord the the blocks forming	tone ashlar facing ickness of the san ng the structure of	has been broken l dstone block so e the culvert.	by either modern o xposed. Record if	opening up to force there is one , or tw	e through vo thickne	a pipe entry, esses of ashlar

ЛΒ	EK A	AUNSELL	Project	Buxton Crescer	nt and Spa		Briefing Sheet 1/F
Marlborough House			Survey of the River Wye Culvert				
Saint Albans AL1 3UT			Prep. by MJW	Date 09 Sept 04	Chck'd PRH	Date 6 Oct 04	Page 4 of 7
(	x)	It is recognis of the culver	ed that the shear t ,at the various s	r depth of water end eepage points.	countered prech	udes surveying mir	neral deposits on the invert
A	mjw	10 Sept 04	Alan Cobb co Alan Cobb su	mments as email rvey comments a	10 Sept incor s email 14 Sep	porated. ot incorporated.	
B F	mjw mjw	17 Sept 04 10 Dec 04	Philip Smarť	s comments (17	Sept ) added.	·	
С	mjw	28 Sept 04	Philip Smart's	comments (28 S	ept ) added		
C	mjw	11 Nov 04	Levels on the two cistern covers in front of the Crescent / Thermal Baths added. Zenith details added.				
Ε	mjw mjw	12 Nov 04 10 Dec 04	Rick Brassing Additions follo	ton's comments on the second sec	of 12 Nov adde	ed. on Wednesday a	added.
			Requirement	to survey car par	k tunnel down	stream, for the F	lood Risk





