Route County Rd Stream Medicine	CŁ	MRM	Da	te 8/1-	7/4 Ini	tials CL	7	
Bridge Structure No. 43153192 Lo	cation O. I	mi Nos	Presho m	of CO HIV	122 :	ust stra	that off	
Bridge Structure No. <u>43 53 92</u> Log GPS coordinates: <u>N 43°54'53.3"</u>	taken from:	USL abutme	ent X	centerline o	of I MRM	end	5 Man St	
W100°03'33.8"	Datum of co	oordinates: V	VGS84	NAD27			4,00%	
Drainage area = 201.52 sq. mi.				* ************************************	-			
The average bottom of the main channel was 15		w top of guard	łrail at a noin	71	ft from le	ft abutment		
Method used to determine flood flows:Freq.	Anal.	drainage area	ratio	regional reg	ression eau	ations		
					ression equ	atrons.	01 111 6	ID
MI	SCELLANE	OUS CONS	IDERATION	NS .			PK caked 81	8
Flows	$Q_{100} = 7650$			$Q_{500} = 12700$			2 512	
Estimated flow passing through bridge	7650			12700			5 1560	
Estimated road overflow & overtopping							10 270	
Consideration	Yes	No	Possibly	Yes	No	Possibly	25 433)
Chance of overtopping		X	_		X		50 5891	
Chance of Pressure flow Armored appearance to channel		X			X		100 7650)
Lateral instability of channel		X	1		X	1	500 1270	0
Eater at histability of charmer] ,	57.3
Riprap at abutments? Yes	X No	Marginal						
The state of the s	No _							
		Don't kno	W					
Debris Potential?High	Med	Low						
Does scour countermeasure(s) appear to have been	dacionad?							
		loDo		XNA				
RiprapY				1				
		loDo	acontrol in more sound	NA				
OtherY	esN	loDo	on't know	NA				
B 114 - 14	aa							
Bed Material		1 -		20070-000				
Material Silt/Clay Sand		Gravel		Cobbles		Boulders_		
Size range, in mm <0.062 0.062-2.	00	2.00-64		64-250		>250		
Comments, Diagrams & orientation of digital phot	os							
2003-IP								
04 - US								
05-43RB						(8		
06-USLB								
07- 45 Face								
08-L. Abut								
Summary of Results								
		Q100			Q500			
Bridge flow evaluated	7650			12100				
Flow depth at left abutment (yaLT), in feet		0			0.2			
Flow depth at right abutment (yaRT), in feet		0			1.1			
Contraction scour depth (ycs), in feet		1.9			1.2			
Pier scour depth (yps), in feet		5.9			6.0			
Left abutment scour denth (vas) in feet		^			10		1	

0

4.7

See Comments/Diagram for justification where required

Right abutment scour depth (yas), in feet

1Flow angle of attack