

**DESIGN DATA**

CONCRETE CLASS A  $f'_c = 3$  K.S.I.  
 CONCRETE CLASS AA  $f'_c = 4$  K.S.I.  
 REINFORCING STEEL (GRADE 60)  $f_y = 60$  K.S.I.  
 STRUCTURAL STEEL M 270 (GRADE 50W)  $F_y = 50$  K.S.I.  
 STAINLESS STEEL A240 (TYPE 316)  $F_y = 30$  K.S.I.

LOADING:  
 HL-93 OR OKLAHOMA OVERLOAD TRUCK  
 20 P.S.F. FUTURE WEARING SURFACE  
 5 P.S.F. STAY-IN-PLACE FORMS

DESIGN:  
 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH EDITION.  
 ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE  
 ANSI/AASHTO/AWS D1.6 STRUCTURAL WELDING CODE - STAINLESS STEEL.

LFD OPERATING RATING: HS 39.4

**STANDARDS**

B40-1-ABUT-MISC-01E  
 B40-1-AS-03E  
 TR4-2-00E  
 HP1-2-00E  
 LECS-4-1  
 PUD-3-2

**HYDRAULIC DATA**

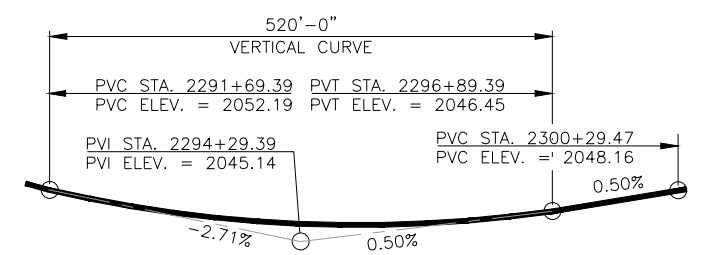
TOTAL DRAINAGE AREA = 37.77 SQ. MI.  
 CONTROLLED DRAINAGE AREA = 0 SQ. MI.  
 EFFECTIVE DRAINAGE AREA = 37.77 SQ. MI.

Q2 = 1,050 CFS	Q5 = 2,510 CFS
CHW2 = 2034.22 FT	CHW5 = 2035.56 FT
V2 = 5.12 FPS	V5 = 5.63 FPS
Q10 = 4,060 CFS	Q25 = 6,730 CFS
CHW10 = 2036.68 FT	CHW25 = 2038.48 FT
V10 = 7.80 FPS	V25 = 9.92 FPS
Q50 = 9,070 CFS	Q100 = 11,600 CFS
CHW50 = 2039.96 FT	CHW100 = 2041.40 FT
V50 = 10.87 FPS	V100 = 11.74 FPS
Q500 = 19,600 CFS	
CHW500 = 2045.66 FT	
V500 = 12.96 FPS	

SCOUR (100YR) CONTRACTION = 21.10'	SCOUR (500YR) CONTRACTION = 32.55'
PIER = 10.86'	PIER = 11.61'
TOTAL = 31.96'	TOTAL = 44.16'

QOT > 500

NOTE:  
 FOR FOUNDATION DATA, SHEET INDEX, AND SUMMARY OF BRIDGE PAY QUANTITIES, SEE SHEET 22.



**PROFILE DATA**  
 C.R.L. & P.G.L. SH34

DESIGN	J.W.H.	SH34 OVER S. PERSIMMON CREEK	WOODWARD COUNTY
DRAWN	R.A.P.	BRIDGE A	
<b>GENERAL PLAN AND ELEVATION</b>			
CHECKED	J.W.H.	62'-75'-62' TYPE III P.C. BEAM SPANS, 0° SKEW, 40' CLEAR ROADWAY WITH TR-4 PARAPETS @ STA. 2297+44.14	
APPROV.	T.A.C.	JOB PIECE NO. 28825(04) SHEET NO. 21	
SQUAD	CEC		