Unpacked

HOMER M. HADLEY BRIDGE

ULTIMATE SECTION CAPACITIES
FOR
FLOODING ANALYSIS AND SUBDIVISION RECOMMENDATIONS

Location	Vertical Bending (Kip-Ft) (1)		Vertical Shear (Kips)	Torsion (2) (Kip-Ft)
	Positive	Negative		
Typical Phase I Pontoons F-I and K-O	208,000	127,000	3,800	45,500
Pontoon J	236,000	152,000	4,200	50,400
Pontoon E Wall 19, Pontoon P Wall 7	340,000	350,000	9,000	53,800
Pontoon D Wall 19, Pontoon Q Wall 7	552,000	560,000	12,000	71,000
Pontoon B, C, Part Pontoon D, Part Pontoon Q	627,000	616,000	12,800	81,300
Typical Bolted Joint -- Joints EF through OP	244,000	231,000	17,300	131,000
Post Tensioned Joints DE and PQ	581,000	581,000	28,500	415,300
Post Tensioned Joints AB, BC, CD, QR.	732,000	732,000	37,900	611,500

Prepared by WSDOT Bridge and Structures Office 8/11/94

(1) The ultimate flexural strength of the overall pontoon section is based upon a flexural crack width of 0.01 inch.
(2) The torsional capacity is based upon the longitudinal precompression in the concrete and prior to cracking diagonally.

HOMER M. HADLEY BRIDGE

ULTIMATE SECTION CAPACITIES
FOR
FLOODING ANALYSIS AND SUBDIVISION RECOMMENDATIONS

Location	Vertical Bending (Kip-Ft) (1)		Vertical Shear (Kips)	Torsion (2) (Kip-Ft)
	Positive	Negative		
Typical Phase I Pontoons F-I and K-O	208,000	127,000	3,800	53,300
Pontoon J	236,000	152,000	4,200	59,100
Pontoon E Wall 19, Pontoon P Wall 7	340,000	350,000	9,000	140,700
Pontoon D Wall 19, Pontoon Q Wall 7	552,000	560,000	12,000	210,500
Pontoon B, C, Part Pontoon D, Part Pontoon Q	627,000	616,000	12,800	244,300
Typical Bolted Joint -- Joints EF through OP	244,000	231,000	17,300	131,000
Post Tensioned Joints DE and PQ	581,000	581,000	28,500	415,300
Post Tensioned Joints AB, BC, CD, QR.	732,000	732,000	37,900	611,500

Prepared by WSDOT Bridge and Structures Office 8/10/94

(1) The ultimate flexural strength of the overall pontoon section is based upon a flexural crack width of 0.01 inch.
(2) The ultimate torsional strength of the overall pontoon section is based upon an existing flexural crack.