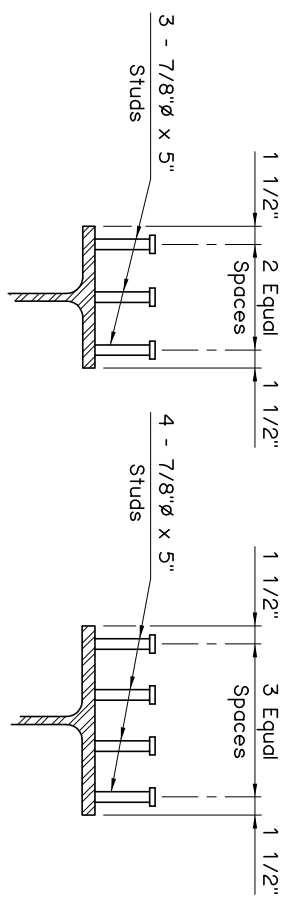


Information shown on this sheet is applicable only to the standard bridge cross-section with 40' Clear Roadway, 8" Deck Slab and 4 Beams at 11'-10" spacing. Skew angle may be as much as 30° if diaphragms are not staggered. Stay-In-Place Deck Forms are permitted if the conditions listed in the STAY-IN-PLACE DECK FORM NOTES on LONGITUDINAL SECTION sheet are satisfied. Any modification will require a custom design with an appropriate Dead Load Deflection Diagram.

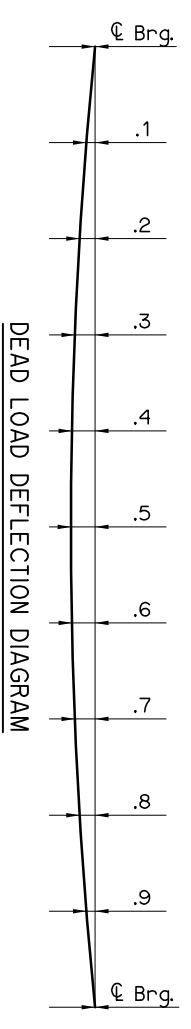
SPAN	BEAM	BEAM LENGTH	A	N1	S1	L1	S2	N3	S3	L3	S4	N5	S5	L5	L6	BEARING STIFFENER	ELASTOMERIC PAD	OPERATING RATING	LPD
55'	W36x135	54'-8"	17'-10"	27	6"	13'-6"	7"	19	8"	12'-8"	-	19	6"	9'-6"	3'-0"	R 3/4"x5"	7/8"x1'-0"x2'-10 1/2"	HS 34.3	HS 34.3
60'	W36x150	59'-8"	19'-6"	30	6"	15'-0"	7"	20	8"	13'-4"	4"	22	6"	11'-0"	3'-0"	R 3/4"x5"	7/8"x1'-0"x2'-10 1/2"	HS 33.3	HS 33.3
65'	W40x167	64'-8"	21'-2"	29	6"	14'-6"	7"	25	8"	16'-8"	-	17	6"	8'-6"	5'-0"	R 7/8"x5"	7/8"x11 3/4"x4'-10 1/2"	HS 35.1	HS 35.1
70'	W40x183	69'-8"	22'-10"	32	6"	16'-0"	7"	26	8"	17'-4"	4"	20	6"	10'-0"	5'-0"	R 7/8"x5"	7/8"x11 3/4"x4'-10 1/2"	HS 34.5	HS 34.5
75'	W40x199	74'-8"	24'-6"	22	8"	14'-8"	10"	25	10"	20'-10"	5"	13	8"	8'-8"	5'-0"	R 3/4"x7"	1"x1'-3 3/4"x4'-10 1/2"	HS 34.0	HS 34.0

**ROLLED BEAM NOTES**

Structural steel for Rolled Beam and all stiffener plates shall conform to AASHTO M270 (ASTM A709), Grade 50W12 (Weathering Steel, Non-Fracture Critical Charpy V-Notch tested for Zone 2). Shear Connectors shall conform to AASHTO M169 (ASTM A108), Grade 1015, 1018 or 1020. Welding shall have weathering characteristics. Beams shall be cambered to account for dead load deflection and, if necessary, vertical curve. Contractor may elect to fabricate Plate Girders using equivalent plate sizes in lieu of Rolled Beam shape shown. Web to flange welds shall be minimum 5/16" fillet welds. Non-destructive testing will be required as appropriate. Costs to construct Plate Girders shall be at the Contractor's expense.



**SHEAR CONNECTOR DETAIL**



**DEFLECTION SCHEDULE**

SPAN	BEAM AND DIAPHRAGM DEFLECTION										DECK SLAB, HAUNCH, SIP FORMS AND TRAFFIC RAIL DEFLECTION									
	1 & .9	.2 & .8	.3 & .7	.4 & .6	.5	6 BRG.	1 & .9	.2 & .8	.3 & .7	.4 & .6	.5	6 BRG.	1 & .9	.2 & .8	.3 & .7	.4 & .6	.5			
55'	0.00"	0.03"	0.06"	0.09"	0.10"	0.11"	0.00"	0.30"	0.57"	0.78"	0.92"	0.00"	0.30"	0.57"	0.78"	0.92"	0.97"			
60'	0.00"	0.05"	0.09"	0.12"	0.14"	0.15"	0.00"	0.37"	0.71"	0.97"	1.14"	0.00"	0.37"	0.71"	0.97"	1.14"	1.19"			
65'	0.00"	0.06"	0.11"	0.15"	0.17"	0.18"	0.00"	0.41"	0.77"	1.05"	1.23"	0.00"	0.41"	0.77"	1.05"	1.23"	1.29"			
70'	0.00"	0.07"	0.14"	0.19"	0.22"	0.23"	0.00"	0.48"	0.91"	1.25"	1.46"	0.00"	0.48"	0.91"	1.25"	1.46"	1.53"			
75'	0.00"	0.10"	0.18"	0.25"	0.29"	0.30"	0.00"	0.57"	1.08"	1.48"	1.73"	0.00"	0.57"	1.08"	1.48"	1.73"	1.82"			

The Dead Load Deflection shown at the tenth points are the deflections due to Deck Slab + Haunch + 5 P.s.f. SIP Deck Form Allowance + Concrete Traffic Rail. It does not include the Beam weight, Diaphragms or Future Wearing Surface.

NOTE: For additional details, see DIAPHRAGM DETAILS.

APPROVED BY BRIDGE ENGINEER *Chad Head* DATE 12-1-04  
 OKLAHOMA DEPT. OF TRANSPORTATION  
 BRIDGE STANDARD (ENGLISH)  
 ROLLED BEAM DETAILS  
 55' THRU 75' SPANS  
 INTEGRAL

1999 SPECIFICATIONS B40-I-RB-5575 O1E B-147E