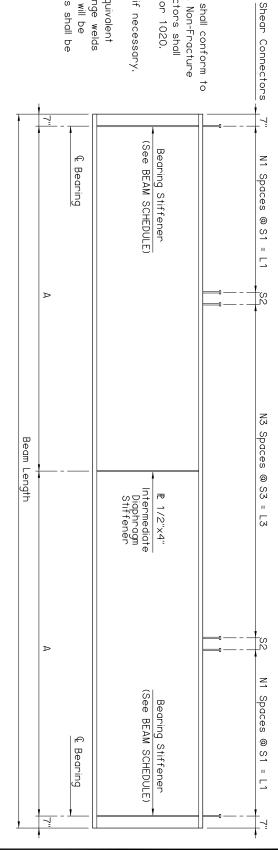
## ROLLED BEAM NOTES

Structural steel for Rolled Beam and all stiffener plates shall conform to AASHTO M270 (ASTM A709), Grade 50WT2 (Weathering Steel, Non-Fracture Critical Charpy V-Notch tested for Zone 2). Shear Connectors shall Welding shall have weathering characteristics. conform to AASHTO M169 (ASTM A108), Grade 1015, 1018 or 1020.

Beams shall be cambered to account for vertical curve, if necessary.

at the Contractor's expense. If cambering is not required, place natural camber up.

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



## ELEVATION

50'	45'	40'	35'	30'	SPAN	
W33x130 49'-8" 24'-3" 24	W30x116 44'-8" 21'-9"	W30x99 39'-8" 19'-3"	W30x90 34'-8" 16'-9"	W27x84 29'-8" 14'-3"	BEAM	
49'-8"	44'-8"	39'-8"	34'-8"	29'-8"	BEAM LENGTH	
24'-3"	21'-9"	19'-3"	16'-9"	14'-3"	А	
24	1	-	1	-	N1	
<u>୍</u> ଟ୍ର	1	-	1	1	S1	
12'-0" 7"	ı	ı	ı	1	L1	BEAM
7"	1	-	1	1	S2	BEAM SCHEDULE
35	87	77	67	57	N3	DULE
<u>ه</u>	ବ୍ଲ	ଚ୍ଞା	ବ୍ଲ	ବ୍ଲ	S3	
23'-4"	43'-6"	38'-6"	33'-6"	28'-6"	L3	
₽ 3/4"x5"	₽ 3/4"x4 1/2"	₽ 3/4"x4 1/2"	₽ 3/4"x4 1/2"	₽ 5/8"x4"	BEARING STIFFENER	
HS 38.9	HS 38.1	HS 40.2	HS 49.7	HS 59.2	LFD OPERATING RATING	

		€ Brg.
		1
		.2
		3
DEAD LOAD DEFLECTION DIAGRAM		
OAD D	+	4
EFLEC	+	.5
TION D	-	.6
IAGRAN		.7_
_		.8
	-	.9
		€ Brg.

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

€ BRG.

35 40

30'

		€ Brg.
		1
	-+	.2
ID.		.3
DEAD LOAD		.4
		.5
DEFLECTION		.6
DIAGRAM		.7
<b> </b> ≤		.8
		.9

BEAM A	DEAD LOAD DEFLE BEAM AND DIAPHRAGM DEFLECTION	DEAL PROPERTY OF THE PROPERTY	DEAD LOAD DEFLECTION DIAGRAM  DEFLECTION SCHEDULE  DEFLECTION  DEFLECTION  DECLECTION  DEC	DEFLEC:	LOAD DEFLECTION DIA  DEFLECTION SCHEDULE  ECTION	AND T	BAFFIC B	AM  DECK SLAB, HAUNCH, SIP FORMS AND TRAFFIC RAIL DEFLECTION	FORMS
1 & .9	.2 & .8   .3 & .7   .4 & .6	.3 & .7	.4 & .6	.5	€ BRG.	.1 & .9	8. % 2.	.2 & .8   .3 & .7   .4 & .	.4 & .
0.01"	0.01"	0.01"	0.01"	0.02"	0.00"	0.07"	0.13"	0.17"	0.20"
0.01"	0.01"	0.02"	0.02"	0.02"	0.00"	0.10"	0.19"	0.26"	0.30"
0.01"	0.02"	0.03"	0.04"	0.04"	0.00"	0.16"	0.30"	0.41"	0.48'
0.02"	0.04"	0.05"	0.06"	0.07"	0.00"	0.21"	62.0	0.54"	0.63"

.4 & .6

'n

(2)

OKLAHOMA DEPT. OF TRANSPORTATION
BRIDGE STANDARD (ENGLISH)
ROLLED BEAM DETAILS
30' THRU 50' SPANS
CONVENTIONAL 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. 12-1-04

- 7/8"ø × 5"

1 1/2"

1 1/2"

50' 45

0.00" 0.00" 0.00" 0.00" 0.00"

0.03"

0.05"

0.07"

0.08"

0.08"

0.00" (2)

0.24"

0.45"

0.62"

0.72" 0.63"

0.76"

0.48" 0.30" 0.20"

0.50" 0.66"

0.32" 0.21"

Spaces 2 Equal

Studs

SHEAR CONNECTOR DETAIL

NOTE: For additional details, see DIAPHRAGM DETAILS.