

**BEAM SECTIONS**  
(32 - 0.6" STRANDS)

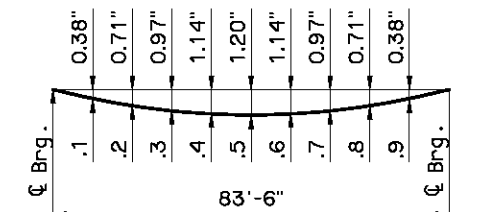
① Provide Elastomeric Pad with a 50 durometer hardness and consisting of a single layer 3/4" thick x 1'-8" wide x 4'-10 1/2" long. Extend pad 1/2" beyond the end of the beam as shown.

**PRESTRESSED CONCRETE BEAM NOTES**

**COMPRESSIVE STRENGTH**  
Provide concrete with a compressive strength of 5,250 p.s.i. at transfer of prestress and 7,000 p.s.i. at 28 days.

**STRAND TYPE**  
Provide low-relaxation strands having a nominal diameter of 0.6" with ultimate tensile strength of 270 k.s.i.

**LFD OPERATING RATING - HS 41.4**  
The Operating Rating shown is based on a nominal strength using only strands that are bonded for the full length of the beam. All partially bonded strands are neglected in strength computations.



**DEAD LOAD DEFLECTION DIAGRAM**

**NOTE:**  
The Dead Load Deflection shown above at the tenth points are the initial deflections due to Deck Slab + Diaphragms + Haunch + S.I.P. Steel Deck Form Allowance + Concrete Traffic Rail. It does not include the Beam weight or Future Wearing Surface.

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'-4" spacing. Any deviation requires custom design and details with an appropriate Dead Load Deflection Diagram.

APPROVED BY BRIDGE ENGINEER *Scott J. Smith* DATE *4/2/10*

OKLAHOMA DEPT. OF TRANSPORTATION  
BRIDGE STANDARD (ENGLISH)  
**TYPE IV P.C. BEAM DETAILS**  
**85' SPAN**  
**INTEGRAL**

2009 SPECIFICATIONS | B40-I-PCB-IV-85 | 02E | B-108E