

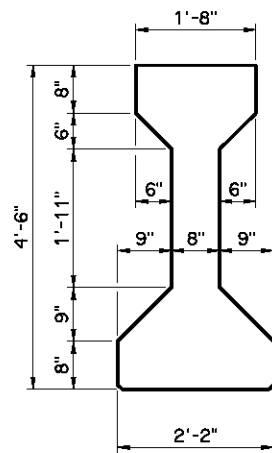
13 - S1 #4
(Top of Beam)
13 - S2 #4
(Bottom of Beam)

PRESTRESSED CONCRETE BEAM NOTES

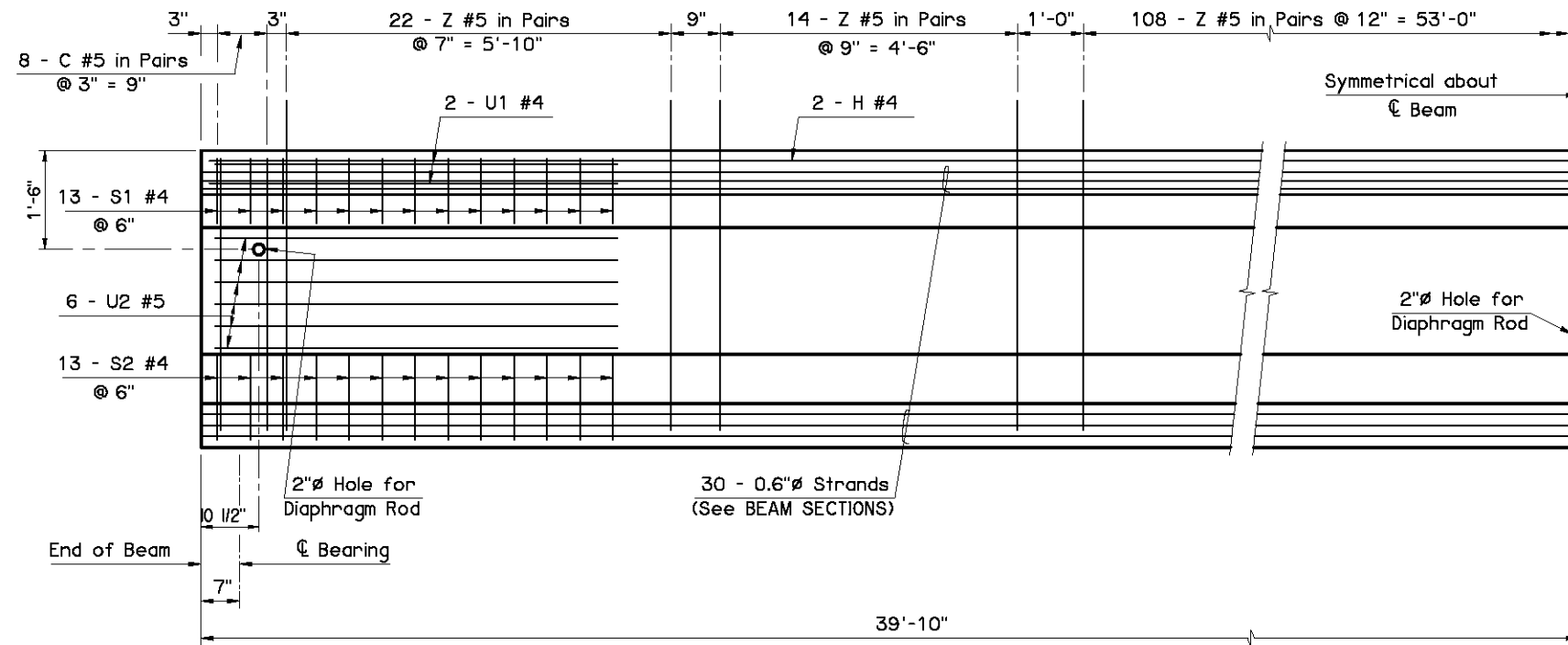
COMPRESSIVE STRENGTH
Provide concrete with a compressive strength of 5,250 p.s.i. at transfer of prestress and 7,000 p.s.i. at 28 days.

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

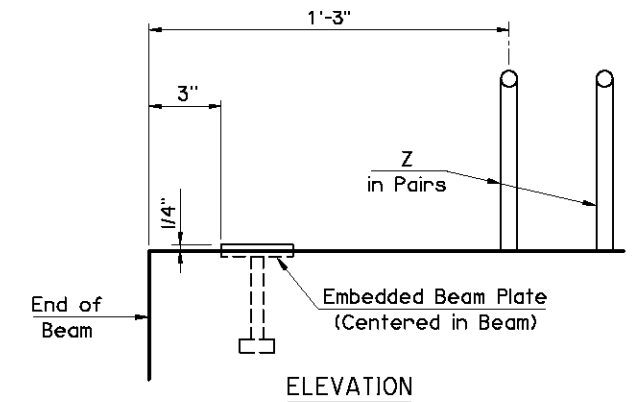
LFD OPERATING RATING - HS 42.7
The Operating Rating shown is based on a nominal strength using only strands that are bonded for the full length of the beam. All partially bonded strands are neglected in strength computations.



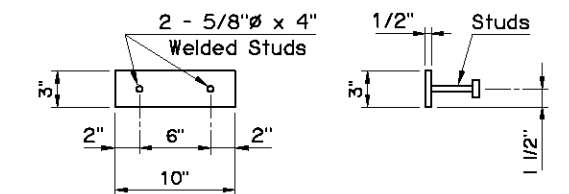
END VIEW
(Type IV P.C.B.)



ELEVATION



ELEVATION

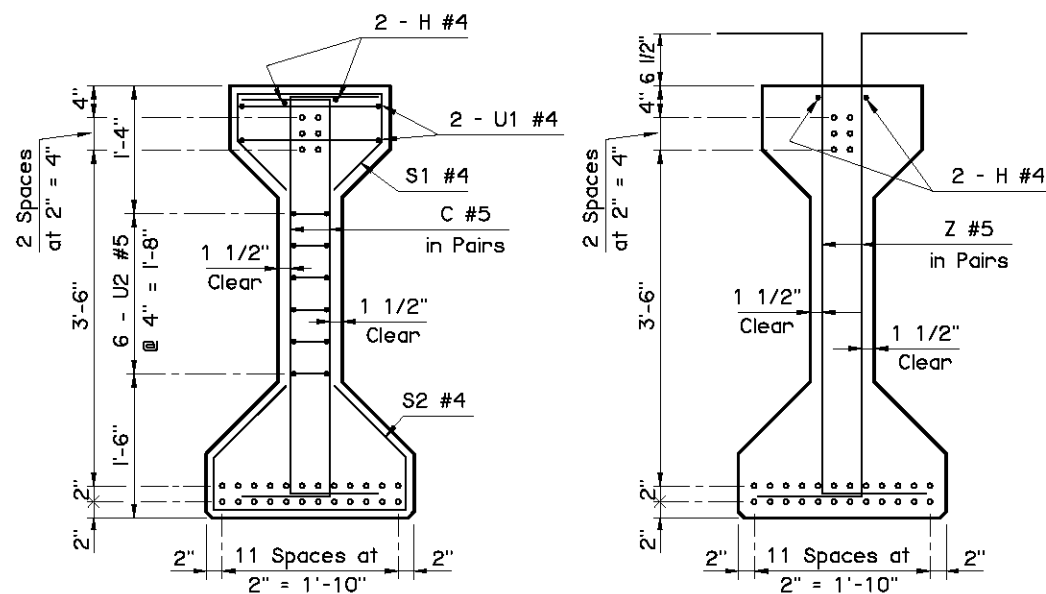


TOP VIEW

END VIEW

EMBEDDED BEAM PLATE DETAILS

NOTE:
Provide an Embedded Beam Plate at expansion ends only.



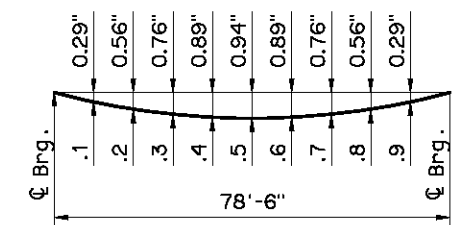
END SECTION

CL SECTION

BEAM SECTIONS

(30 - 0.6" STRANDS)

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.



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.

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

OKLAHOMA DEPT. OF TRANSPORTATION
BRIDGE STANDARD (ENGLISH)
TYPE IV P.C. BEAM DETAILS
80' SPAN
CONVENTIONAL

2009 SPECIFICATIONS | B40-C-PCB-IV-80 | 01E | B-307E