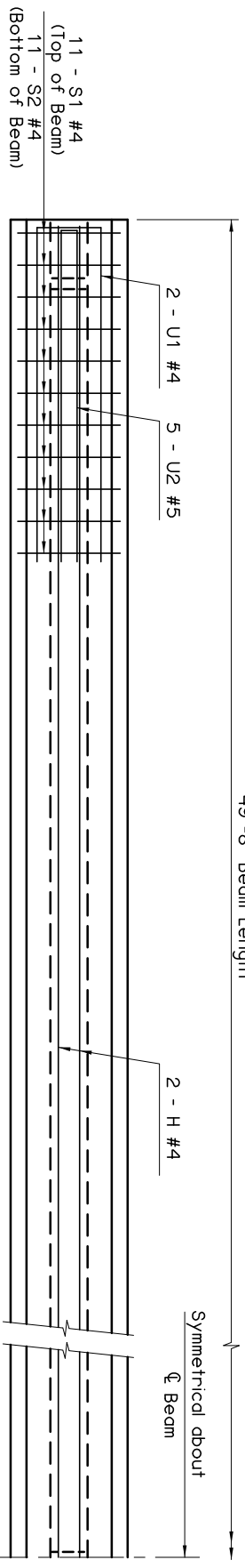
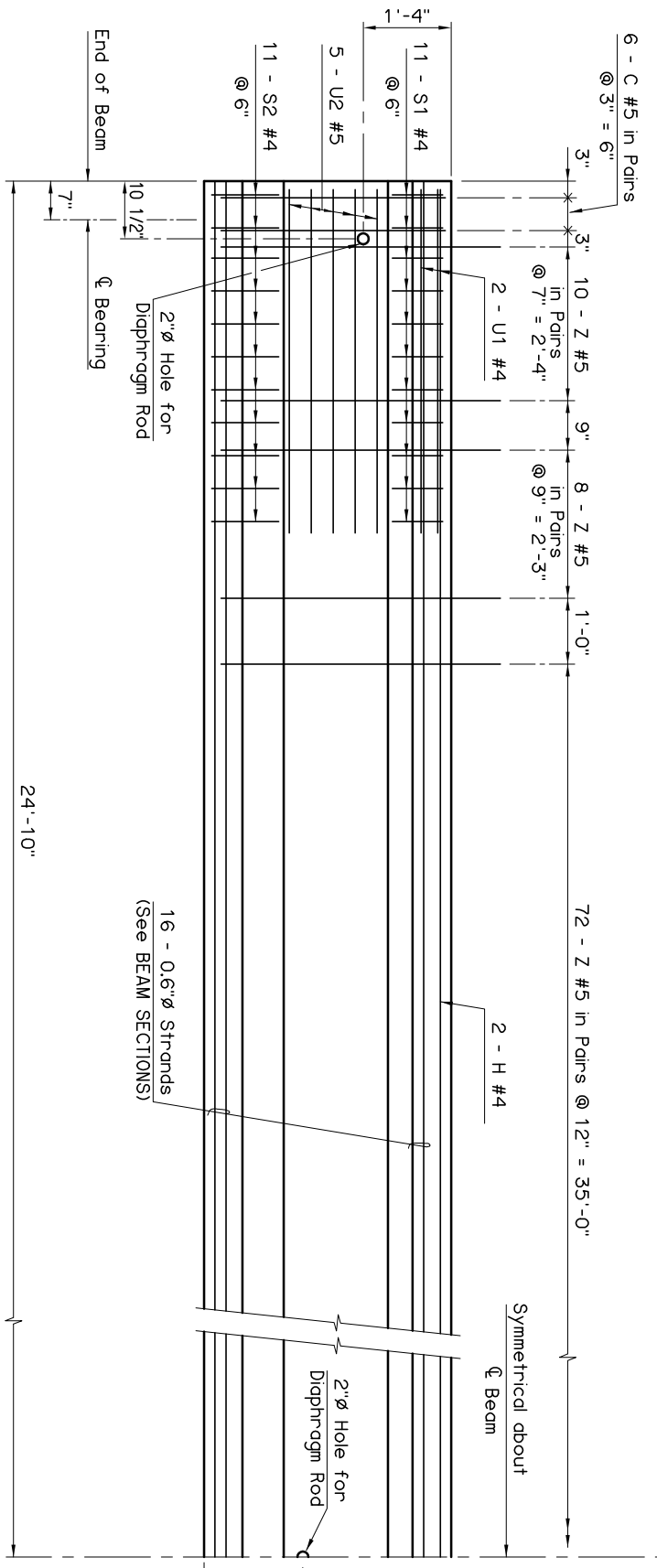


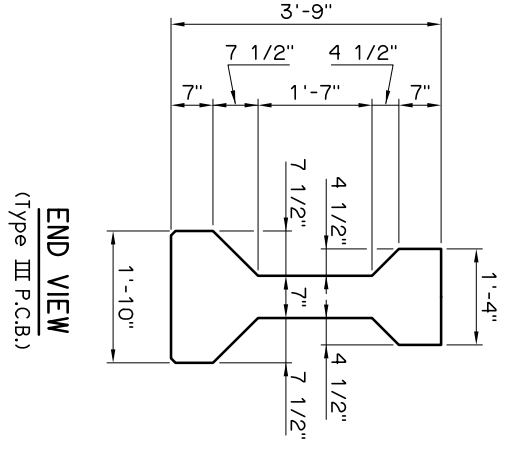
49'-8" Beam Length



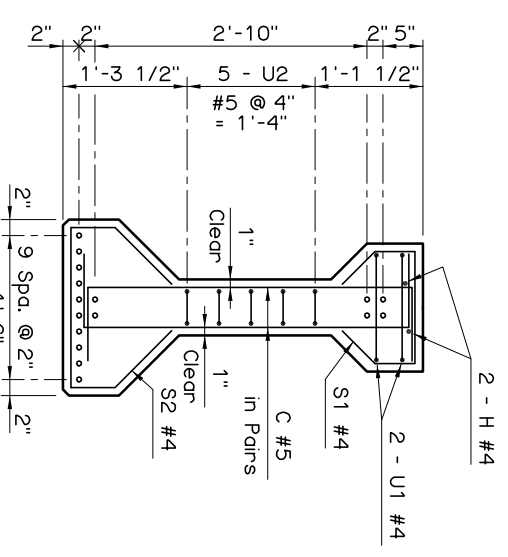
PLAN



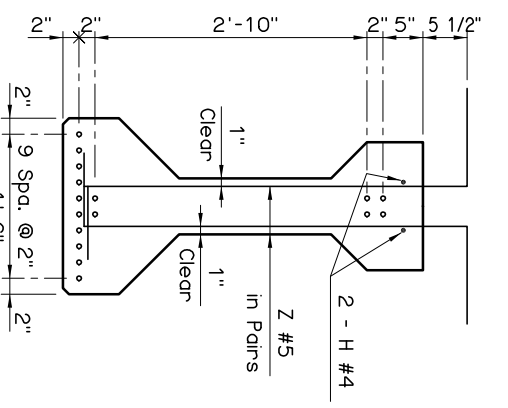
ELEVATION



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



END SECTION



SECTION

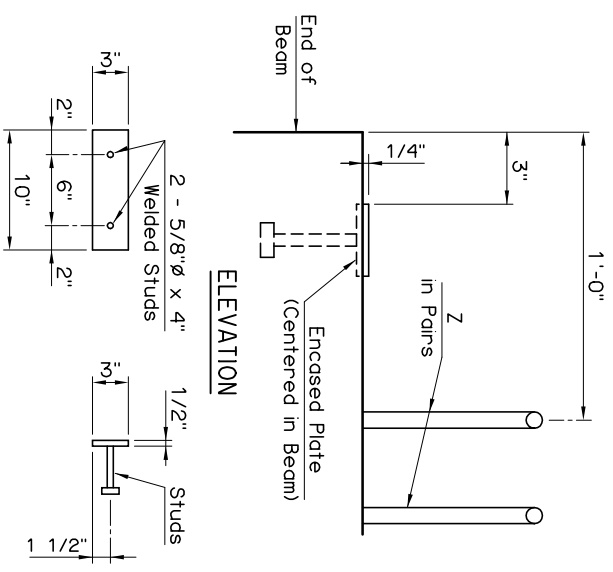
BEAM SECTIONS  
(16 - 0.6"Ø STRANDS)

**PRESTRESSED CONCRETE BEAM NOTES**

**COMPRESSIVE STRENGTH**  
The required compressive strength of the concrete is 4,500 p.s.i. at transfer of prestress and 6,000 p.s.i. at 28 days.

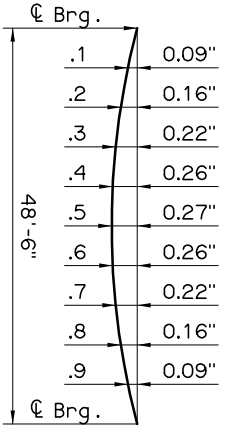
**STRAND TYPE**  
The required strand type is low-relaxation. Use strand having a nominal diameter of 0.6 with ultimate tensile strength of 270 k.s.i.

**LFD OPERATING RATING** - HS 38.1  
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.



ENCASSED BEAM PLATE DETAILS

NOTE:  
Encased Beam Plate located at expansion end only.



DEAD LOAD DEFLECTION DIAGRAM

NOTE:  
The Dead Load Deflection shown above at the tenth points are the initial deflections due to Deck Slab + Diaphragms + 5 p.s.f. 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. Stay-In-Place Deck Forms are permitted if the conditions listed in the STAY-IN-PLACE FORM NOTES on LONGITUDINAL SECTION sheet are satisfied. Any modification will require a custom design with an appropriate Dead Load Deflection Diagram.

APPROVED BY BRIDGE ENGINEER *Chad Head* DATE *8/16/03*

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

1999 SPECIFICATIONS B40-C-PCB-III-50 OOE B-290E