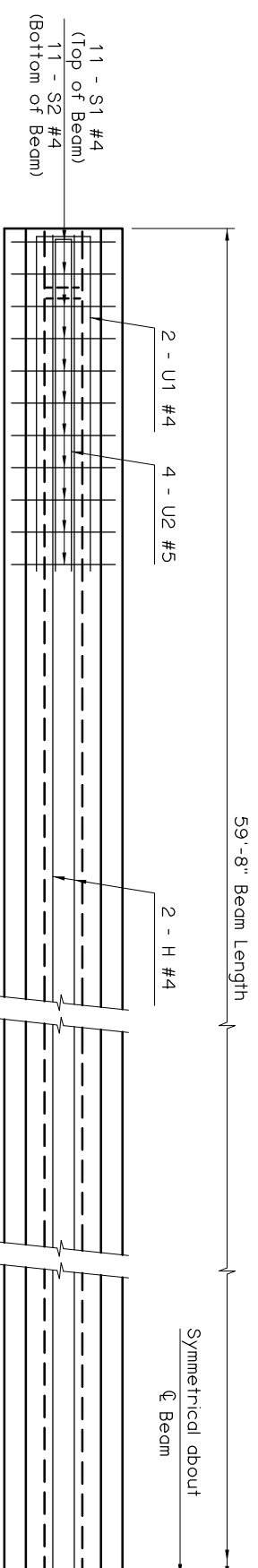


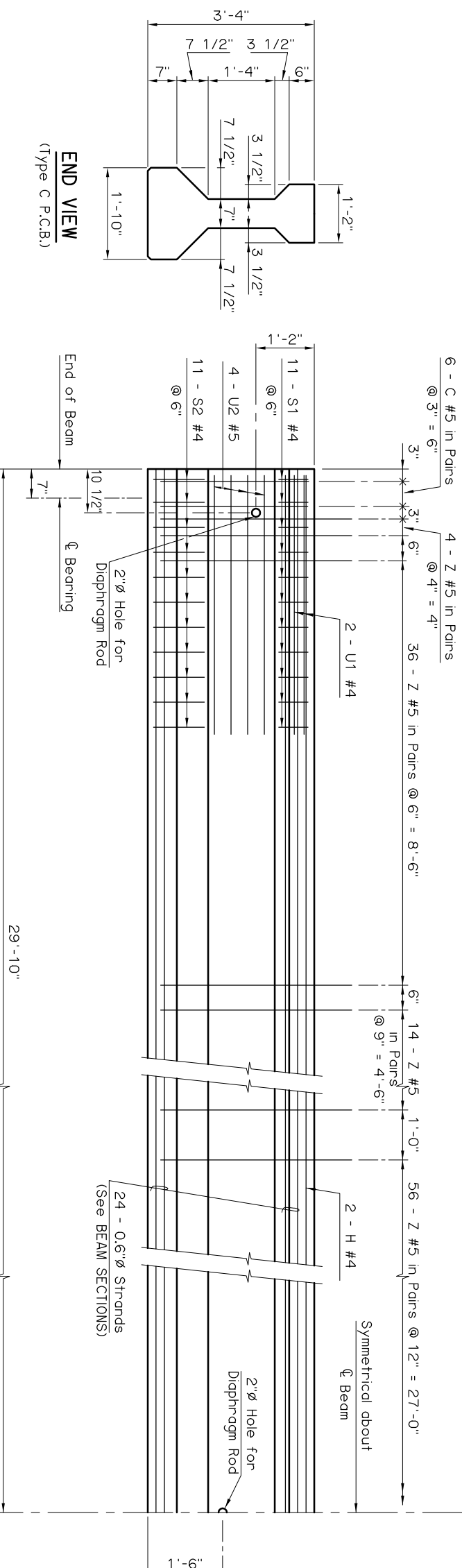
**PRESTRESSED CONCRETE BEAM NOTES**

**COMPRESSIVE STRENGTH**  
The required compressive strength of the concrete is 6,000 p.s.i. at transfer of prestress and 8,000 p.s.i. at 28 days.

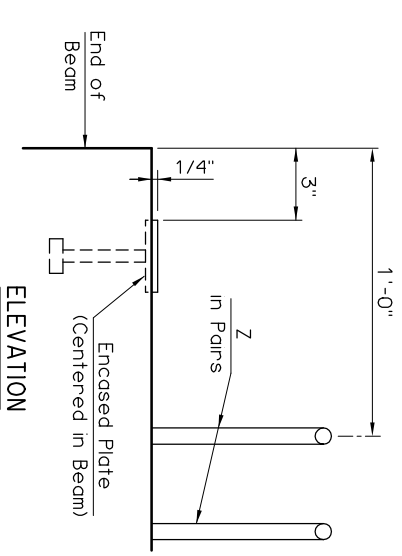
**STRAND TYPE**  
The required strand type is low-relaxation. Use strand having a nominal diameter of 0.6 with ultimate tensile strength of 270 k.s.i.  
LFD OPERATING RATING - HS 37.3  
The Operating Rating shown is based on a nominal strength using only strands that are bonded for the full length of the beam. All partially bonded strands are neglected in strength computations.



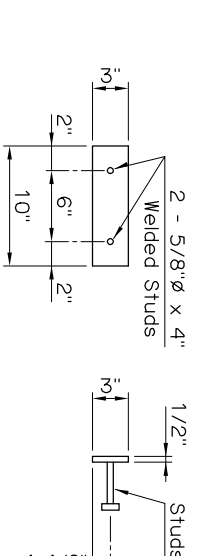
**PLAN**



**ELEVATION**



**ELEVATION**

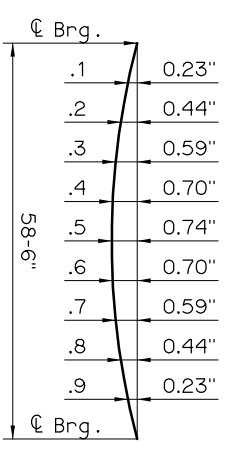


**TOP VIEW**

**END VIEW**

**ENCASED BEAM PLATE DETAILS**

**NOTE:**  
Encased Beam Plate located at expansion end only.

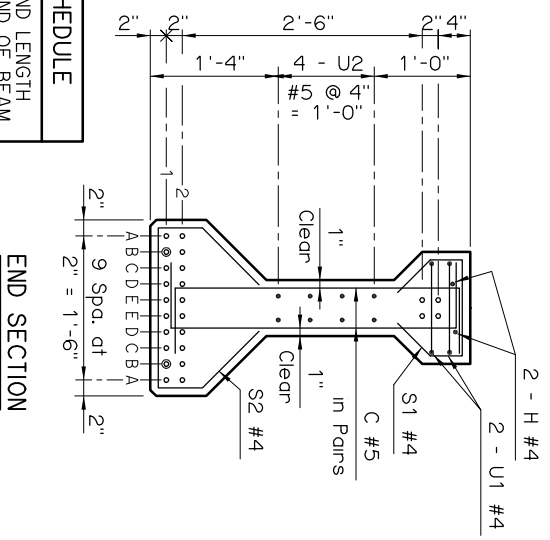
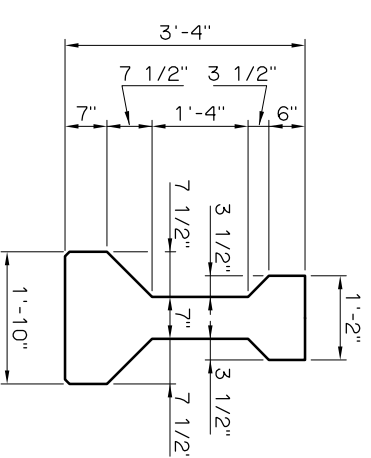


**DEAD LOAD DEFLECTION DIAGRAM**

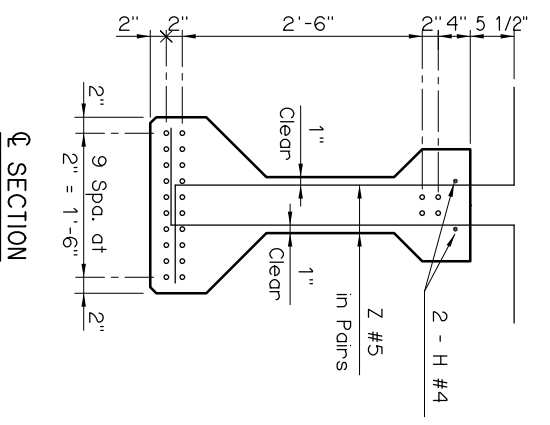
Information shown on this sheet is applicable only to the standard bridge cross-section with 40' Clear Roadway, 8" Deck Slab and 4 Beams at 11'-4" spacing. Stay-In-Place Deck Forms are permitted if the conditions listed in the STAY-IN-PLACE FORM NOTES on LONGITUDINAL SECTION sheet are satisfied. Any modification will require a custom design with an appropriate Dead Load Deflection Diagram.

**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.

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



**END SECTION**

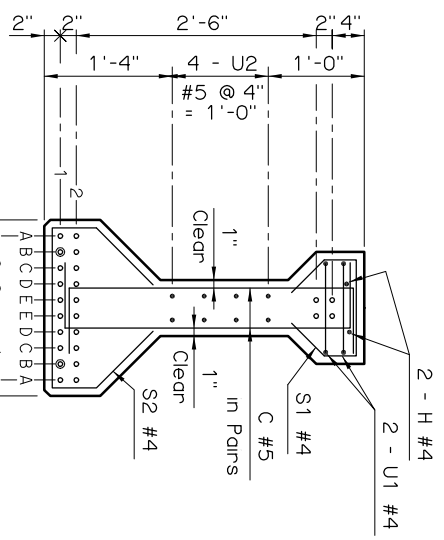


**CL SECTION**

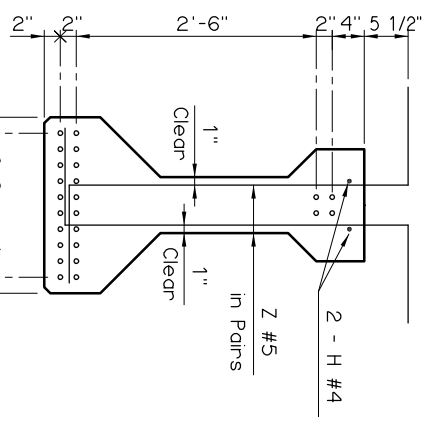
DEBOND SCHEDULE	
DEBOND PAIR	DEBOND LENGTH FROM END OF BEAM
B1	4'-0"

**END SECTION**

**BEAM SECTIONS**  
(24 - 0.6"Ø STRANDS)



**END SECTION**



**CL SECTION**

APPROVED BY BRIDGE ENGINEER *Chad Head* DATE 12-1-04

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

1999 SPECIFICATIONS B40-C-PCB-C-60

O1E  
B-300E