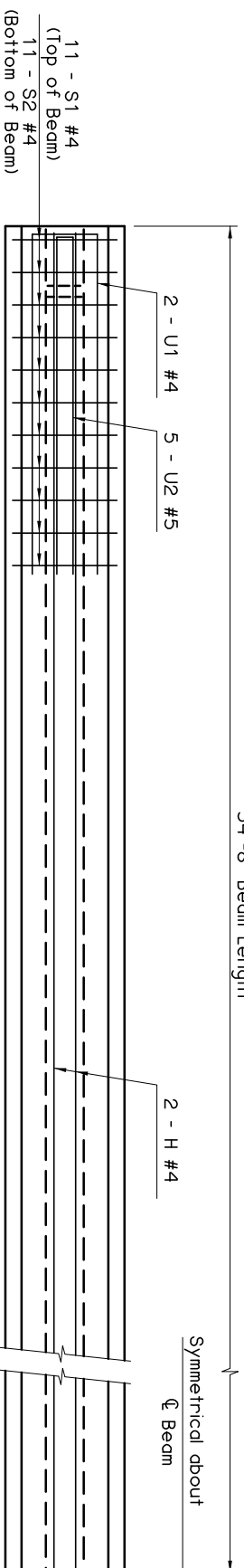
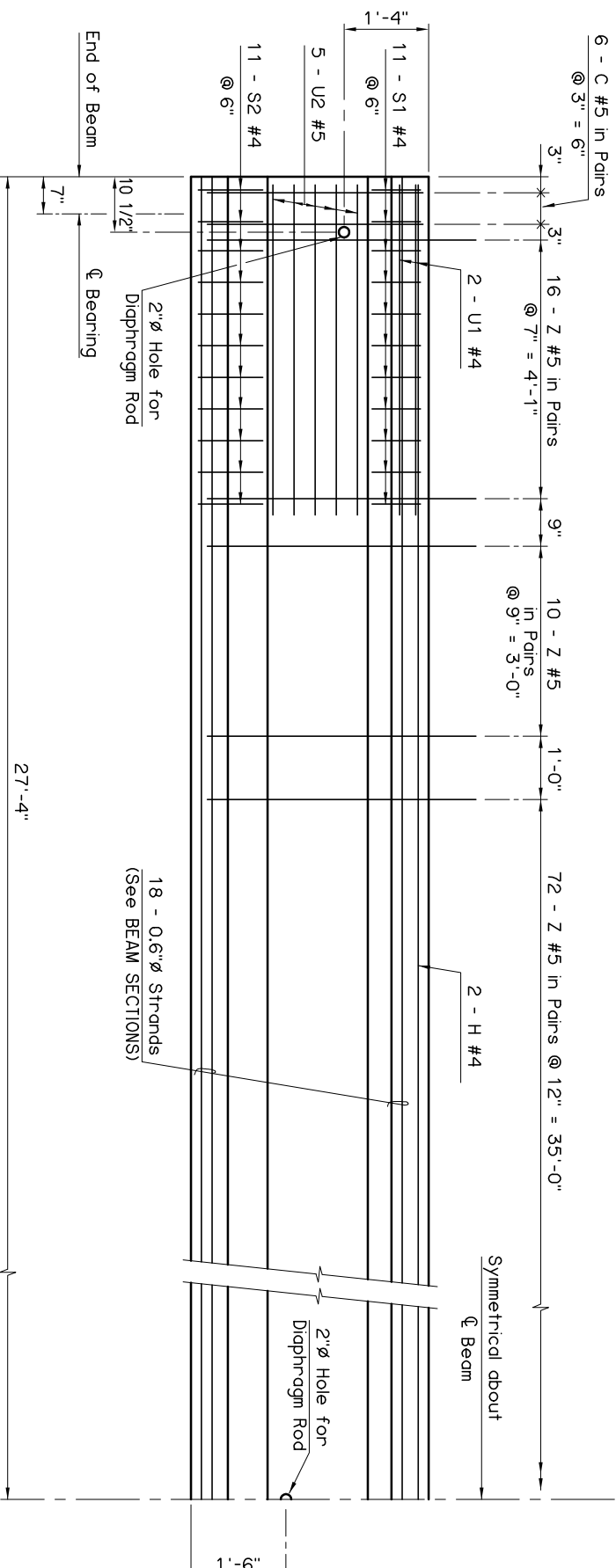


54'-8" Beam Length

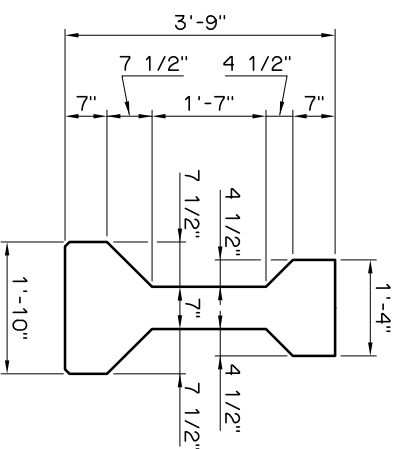


PLAN

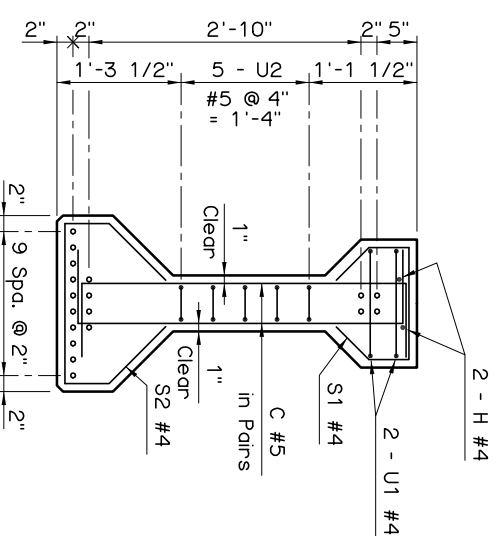


ELEVATION

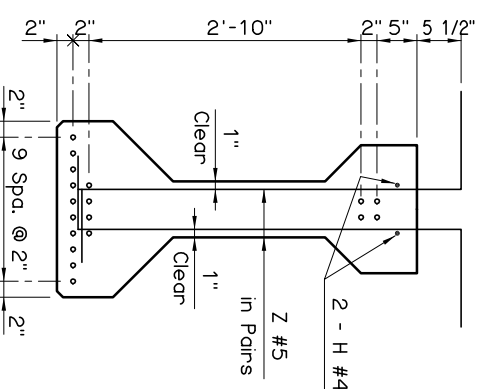
PRESTRESSED CONCRETE BEAM NOTES
COMPRESSIVE STRENGTH
 The required compressive strength of the concrete is 4,500 p.s.i. at transfer of prestress and 6,000 p.s.i. at 28 days.
STRAND TYPE
 The required strand type is low-relaxation. Use strand having a nominal diameter of 0.6 with ultimate tensile strength of 270 k.s.i.
LFD OPERATING RATING - HS 37.8
 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 III P.C.B.)

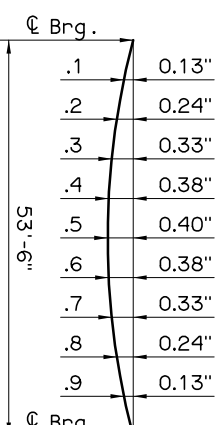


END SECTION



SECTION

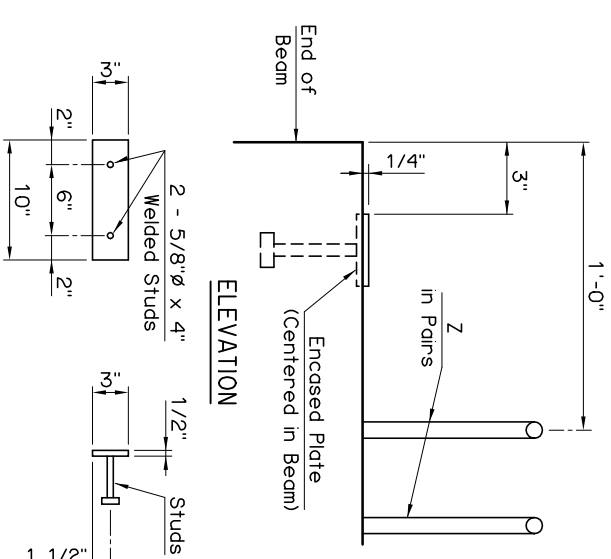
Information shown on this sheet is applicable only to the standard bridge cross-section with 40' Clear Roadway, 8" Deck Slab and 4 Beams at 11'-4" spacing. Stay-In-Place Deck Forms are permitted if the conditions listed in the STAY-IN-PLACE FORM NOTES on LONGITUDINAL SECTION sheet are satisfied. Any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



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.

NOTE:
 Encased Beam Plate located at expansion end only.



ENCASED BEAM PLATE DETAILS

BEAM SECTIONS
(18 - 0.6"Ø STRANDS)

APPROVED BY BRIDGE ENGINEER *Chad Head* DATE *8/16/03*
 OKLAHOMA DEPT. OF TRANSPORTATION
 BRIDGE STANDARD (ENGLISH)
TYPE III P.C. BEAM DETAILS
55' SPAN
CONVENTIONAL
 1999 SPECIFICATIONS B40-C-PCB-III-55 OOE B-291E