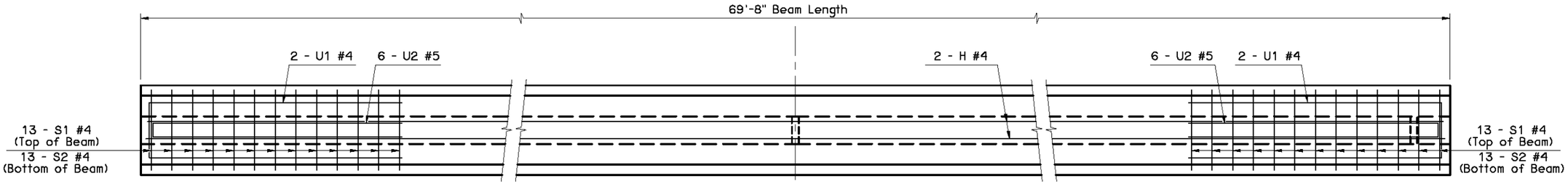
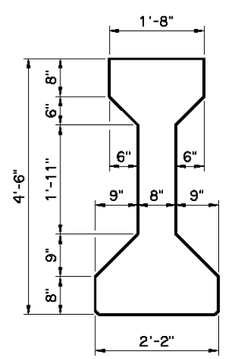
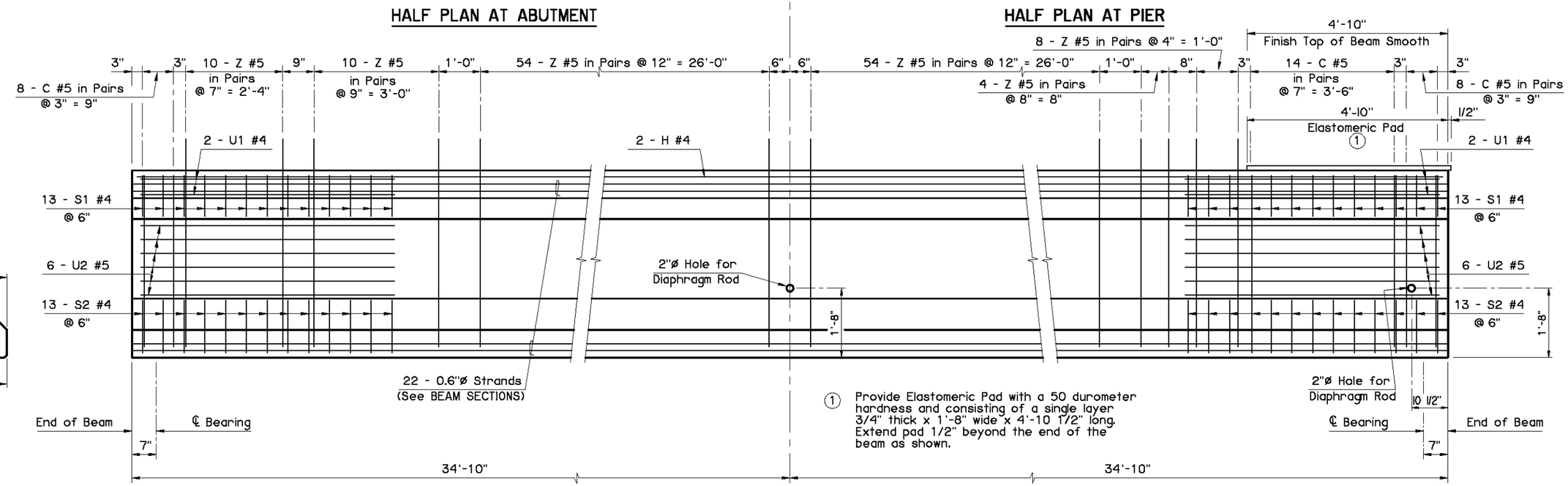


HALF PLAN AT ABUTMENT

HALF PLAN AT PIER



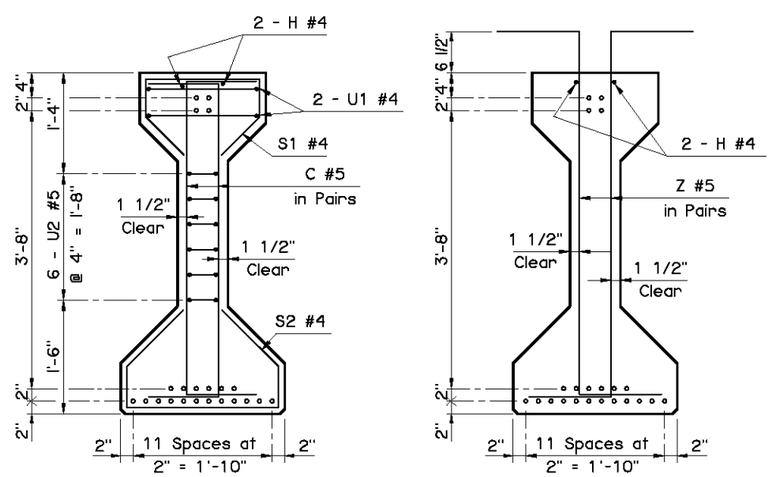
END VIEW
(Type IV P.C.B.)



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.

HALF ELEVATION AT ABUTMENT

HALF ELEVATION AT PIER



END SECTION

℄ SECTION

BEAM SECTIONS
(22 - 0.6"ø STRANDS)

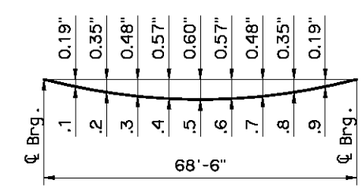
Information shown on this sheet is applicable only to the standard bridge cross-section with 40' Clear Roadway, 8" Deck Slab and 4 Beams at 11'-4" spacing. Any deviation requires custom design and details with an appropriate Dead Load Deflection Diagram.

PRESTRESSED CONCRETE BEAM NOTES

COMPRESSIVE STRENGTH
Provide concrete with a compressive strength of 4,500 p.s.i. at transfer of prestress and 6,000 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 38.3
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.



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 [signature] DATE 4/2/10

OKLAHOMA DEPT. OF TRANSPORTATION
BRIDGE STANDARD (ENGLISH)

TYPE IV P.C. BEAM DETAILS
70' SPAN
INTEGRAL

2009 SPECIFICATIONS	B40-I-PCB-IV-70	02E

B-105E