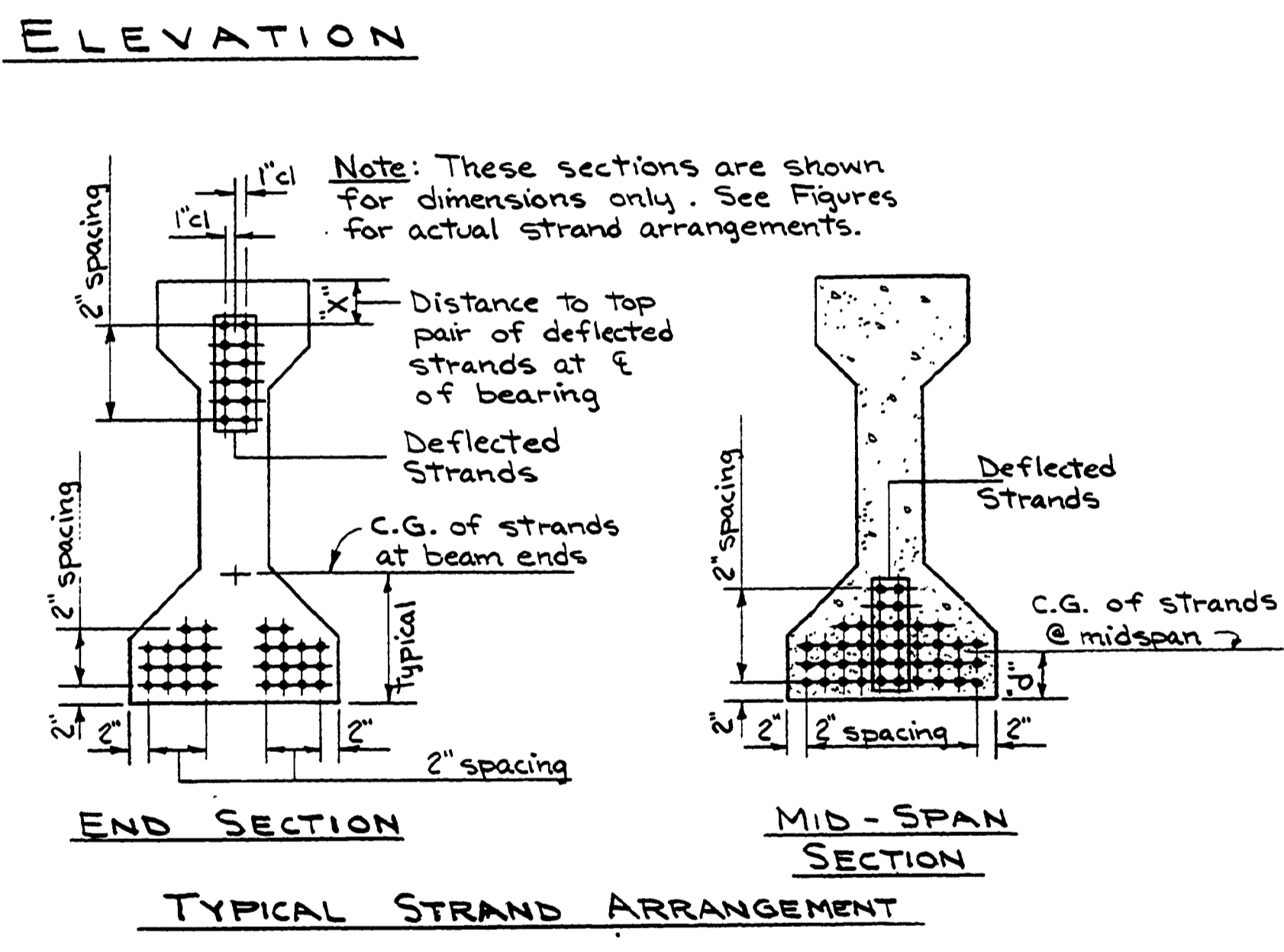
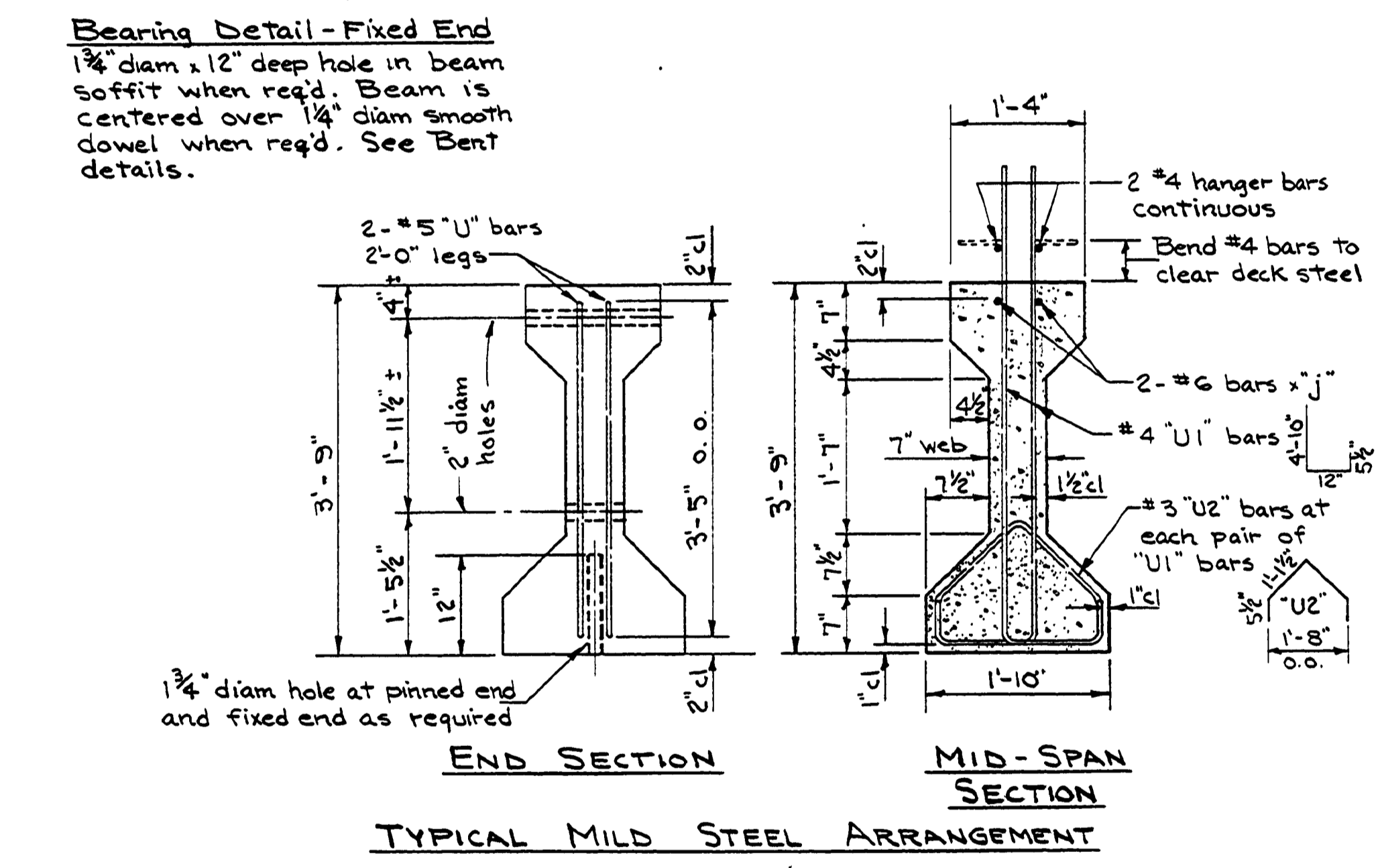
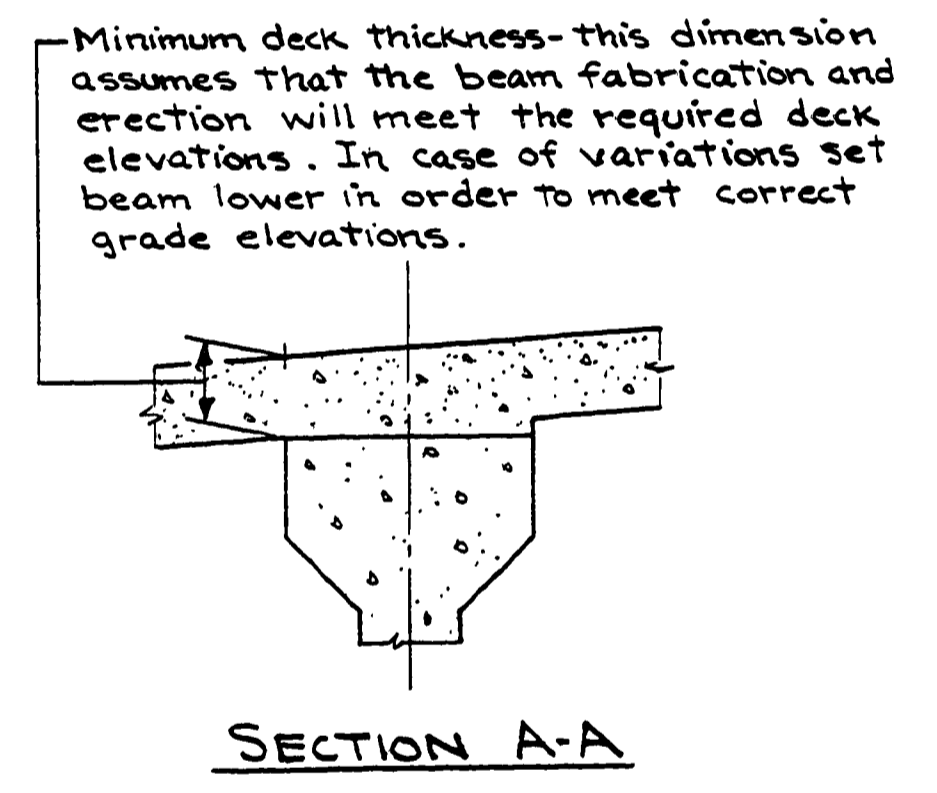
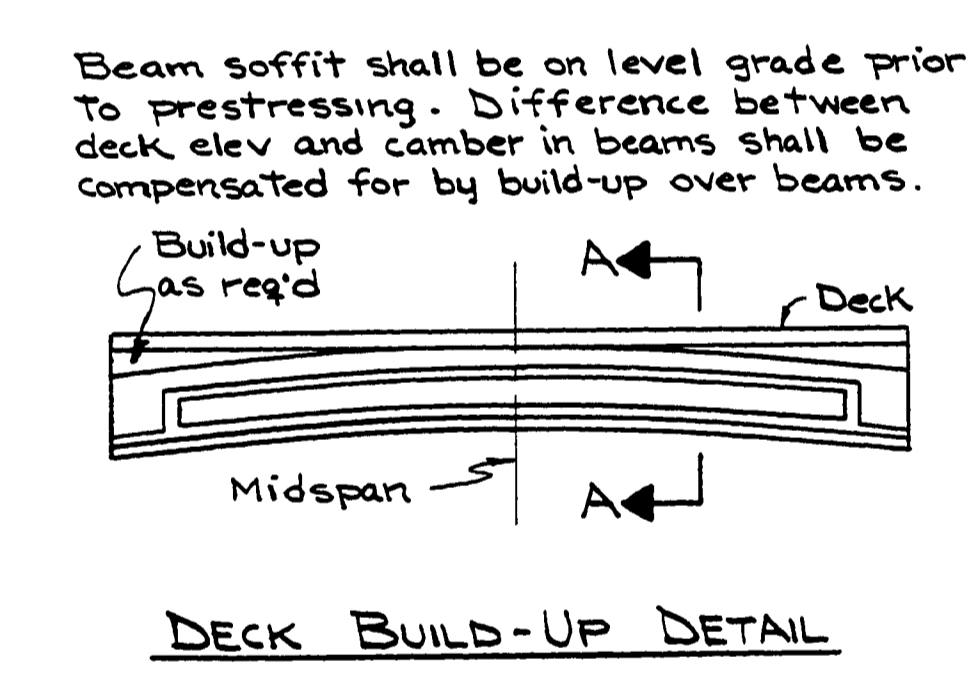


GENERAL NOTES:
SPECIFICATIONS: Beams designed for the loading shown on the plan and elevation drawing in accordance with the current "Standard Specifications for Highway Bridges" of the American Association of State Highway Officials.
CONCRETE: All concrete in precast beams shall be class "AA" and shall have a design strength as shown in the table below under "Concrete Strength in 28 days". The concrete strength required at prestress release varies and is shown in the table under "Concrete Strength at Transfer".
PRETENSIONING STEEL: All strands shall be 1/2" diam 7 wire strands with a minimum ultimate strength of 41,300 lbs per strand. All strands shall have an initial tension of 28,910 lbs per strand unless shown otherwise in the table below.
MILD STEEL REINFORCEMENT: All reinf steel shall be intermediate grade deformed bars and shall conform to A.S.T.M. specification A305. All bars shall be lapped 20 diameters at all splices and shall be placed 2" clear of the nearest face of concrete unless noted or shown otherwise. (f_s = 20,000 psi)
HANDLING BEAMS: The beams shall be maintained in an upright position at all times. They shall be lifted by means of lifting bars anchored near the ends of the beams as approved by the engineer.



Bearing Detail - Pinned End
 1 1/4" diam x 12" deep hole in beam soffit. Beam is centered over 1 1/4" diam smooth dowel and elastomeric bearing pad.

Bearing Detail - Expansion or Free End
 No hole in beam soffit. Intersection of E of beam and E of bearing centered over center of elastomeric bearing pad.



Note: Dimensions shown in Table are horizontal dimensions. Finished length of beam shall be corrected for variation due to grade. Allowance shall be made by fabricator for elastic shortening, creep and shrinkage.

Beams	Number of Beams Req'd	Location	End	Span Length Str-Ch. Bents Along E Beam	Total Strands Per Beam	Deflected Strands per Beam	See Figure	Initial Tension Per Strand in Kips	Concrete Strength at Transfer in KSI	Concrete Strength in 28 Days in KSI	Variable Concrete Dimensions			Variable Mild Steel Dimensions					Weight per Beam in Kips	Estimated Deflection At Midspan				Beam Shortening Two Weeks After Transfer	Bearing Detail End Condition
											A'	B'	Skew	#	Stirrups	Top Bars	Upward Defl. Due to Prest. at Transfer	Upward Defl. Due to Prest. After 3 Mos		Downward Defl. due to Deck DL	Free	Fixed	Free		
A	5	Span 1	Left Right	72'-3 3/8"	32	10	1	28.91	5.5	6.0	72'-9 3/8"	71'-8 3/8"	-27" -27"	5	4	4	20	72'-5"	42.0	1 1/4"	1 1/2"	1/2"	5/8"	Free	
D	6	Span 3	Left Right	86'-11 1/8"	38	12	2	28.91	6.0	6.0	87'-4 3/4"	86'-3 1/4"	-36" -36"	5	5	4	24	87'-0"	51.0	3/4"	2 1/8"	7/8"	3/4"	Free	

Figure	1	2	3
Total Strands	32	38	
Defl. Strands	10	12	
'd' Distance	4.75"	5.47"	
'x' Distance	5 3/8"	6'	

OREGON BRIDGE ENGINEERING COMPANY
 CONSULTING ENGINEERS EUGENE, OREGON

DEL RIO OVERCROSSING
 OF THE S.P.R.R. FOR
 DOUGLAS COUNTY, OREGON

AASHTO TYPE III - NO ENDBLOCK

DRN LFP DATE PROJECT NO. 8-3 DWG NO. 4 OF 8
 CJD DATE FILE NO. 332