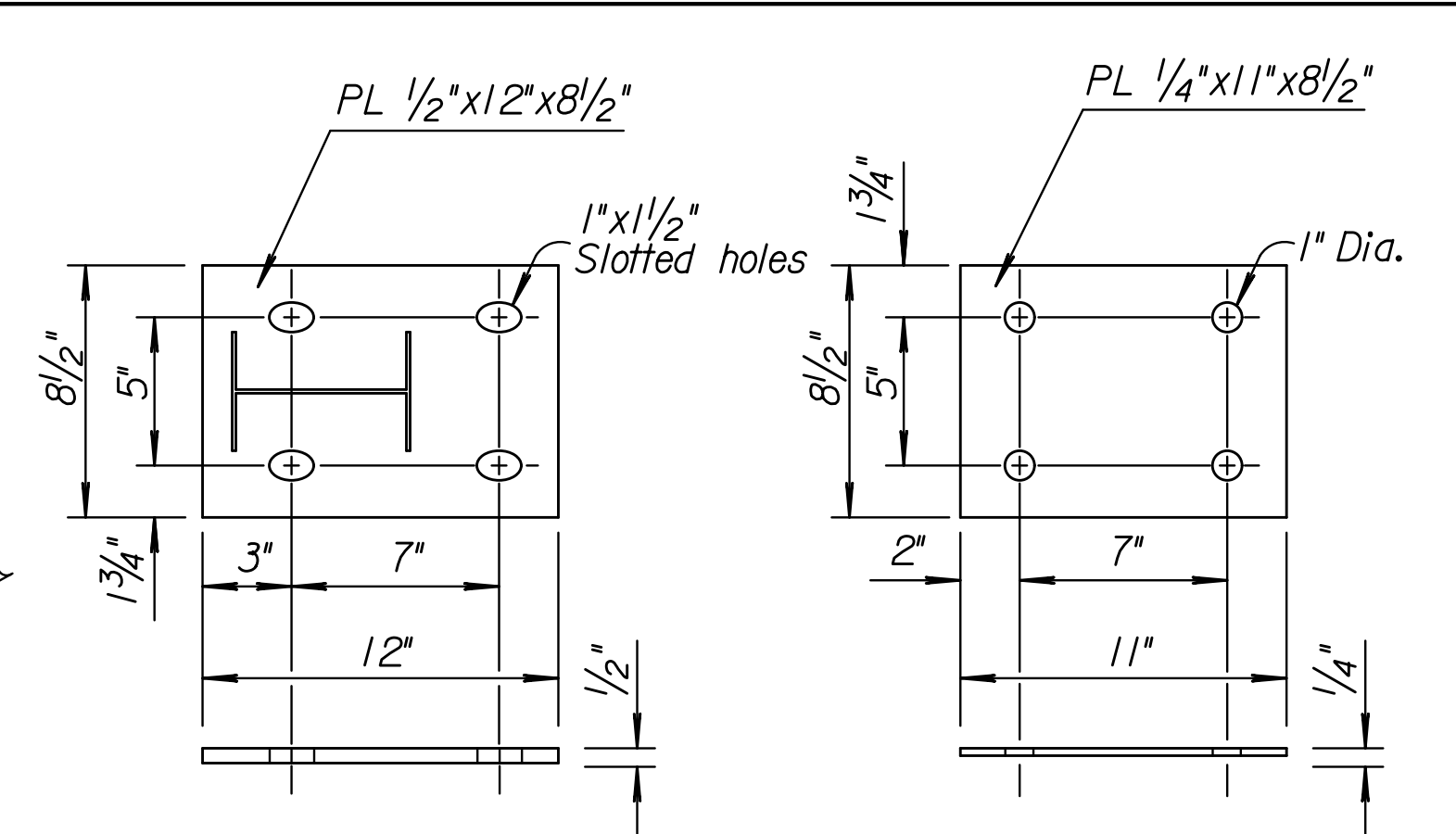
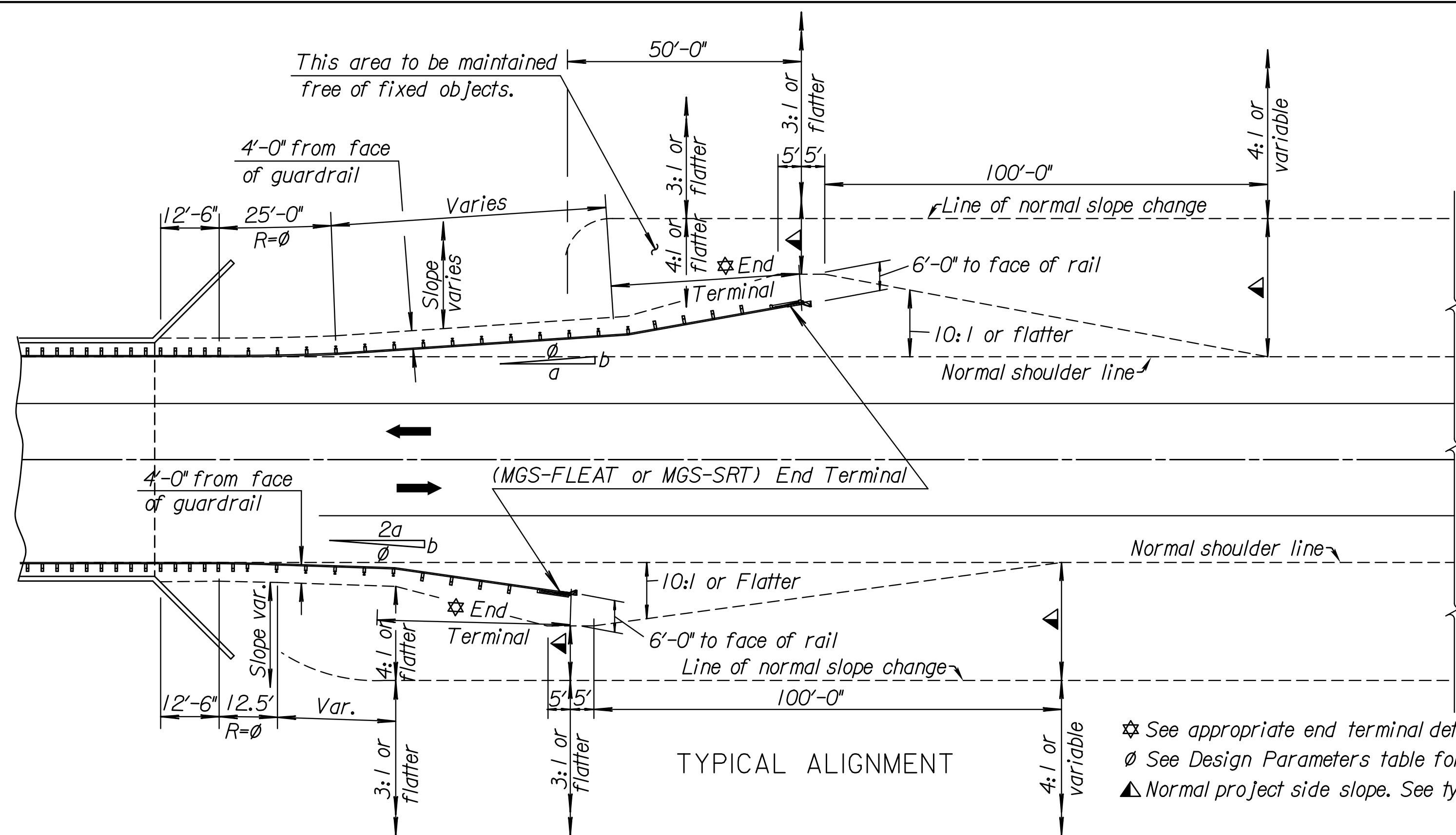


Notes to Designer: Determine guardrail length of need using either KDOT's Length of Need Equation or a graphic design approach with an L₁ distance measured from the edge of the area of concern to the P.I. of the curved guardrail section.

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Drawn By: tthreads
File: rd617e.dgn



GENERAL NOTES

Use this Standard Drawing for (MGS) Guardrail installed over a low fill bridge-sized structure. See Typical Alignment for guardrail installation from posts attached to structure to End Terminal.

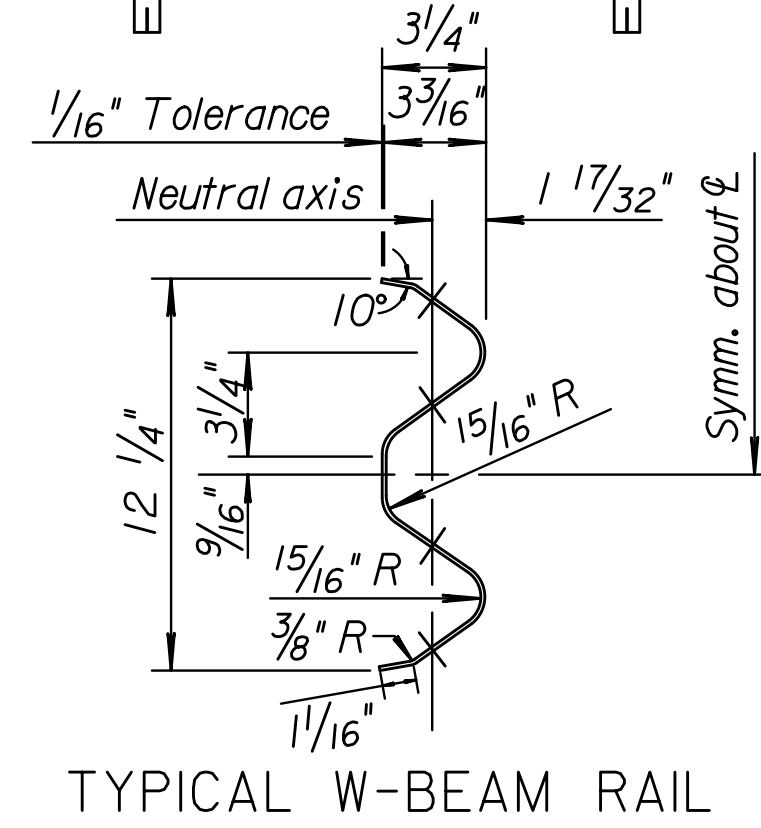
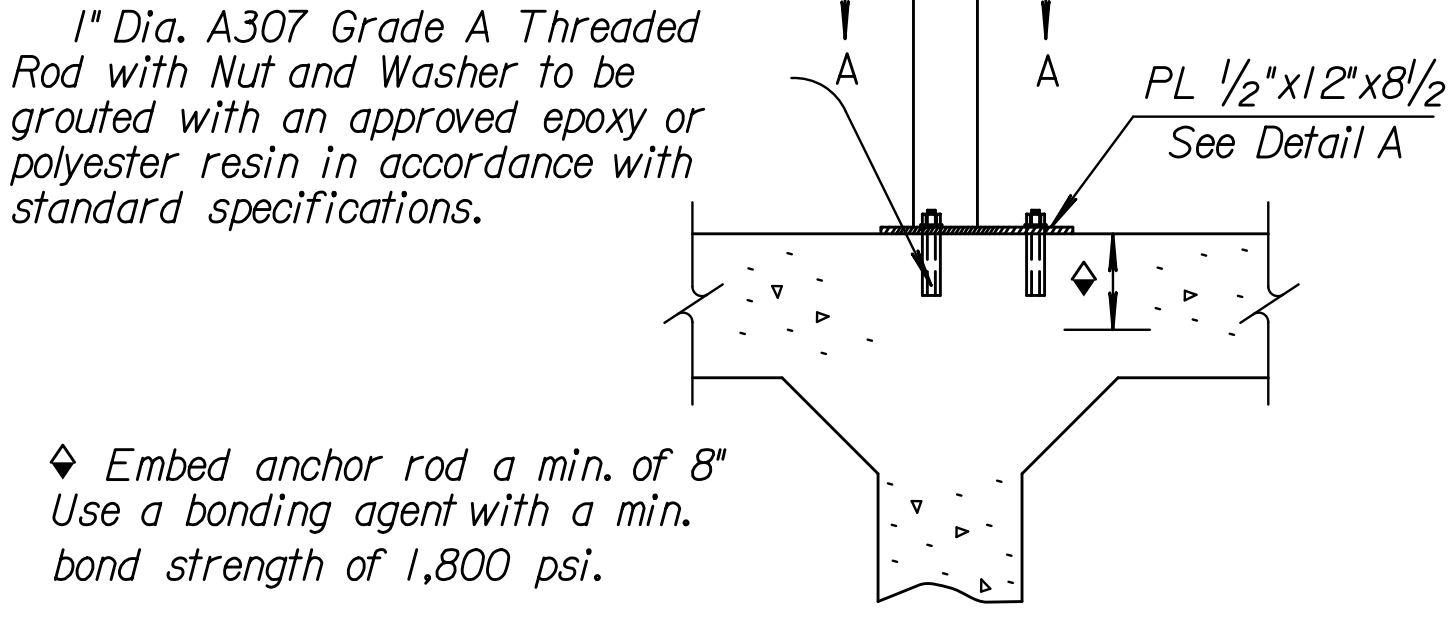
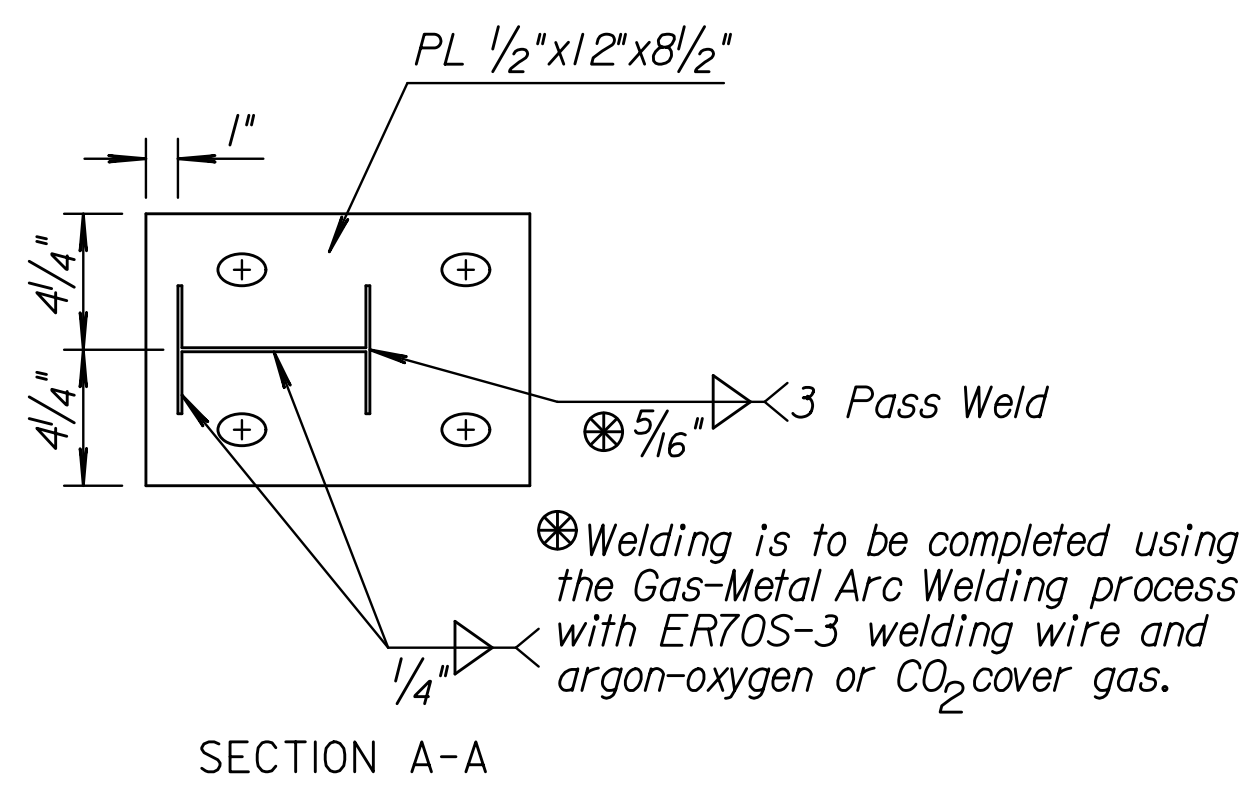
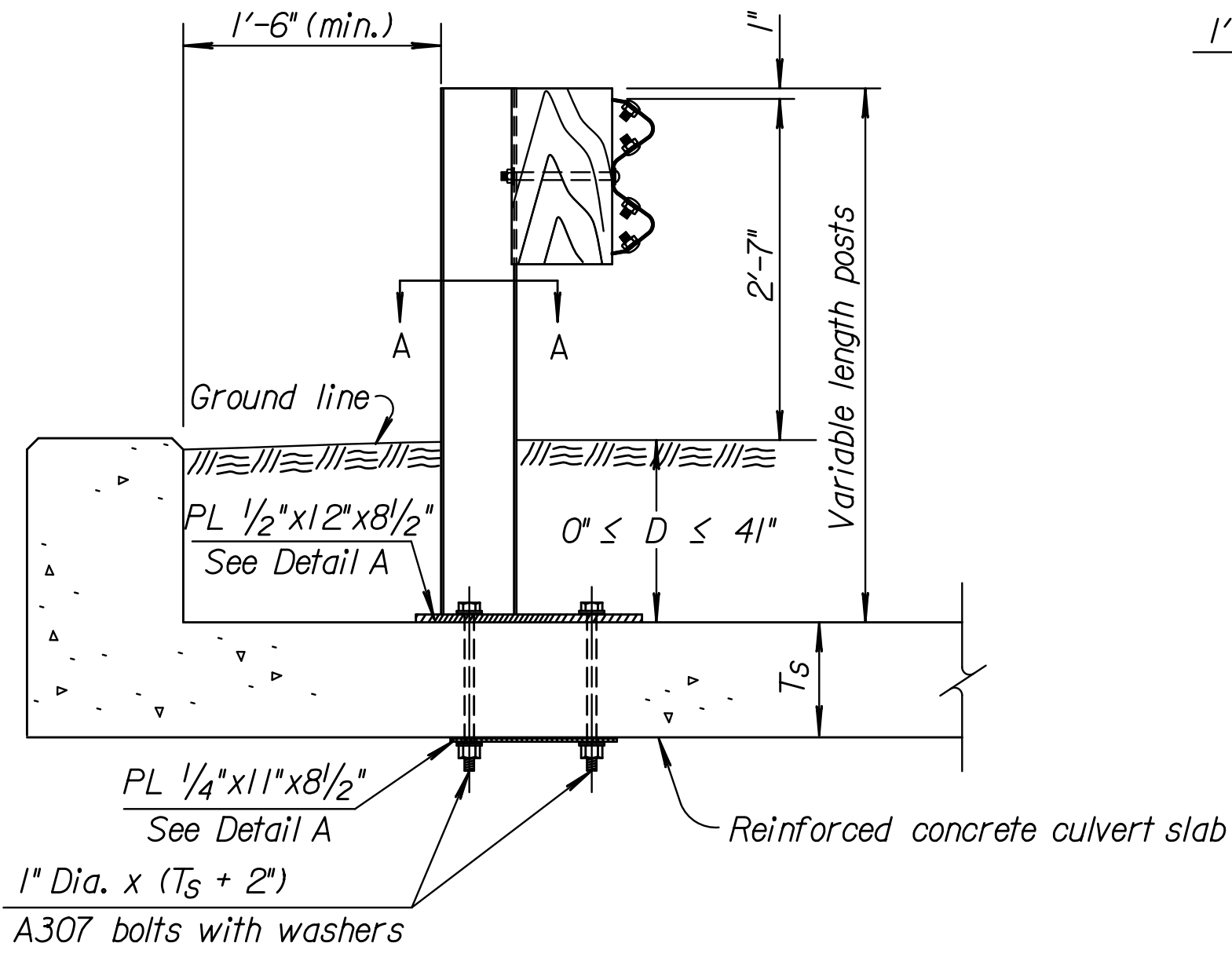
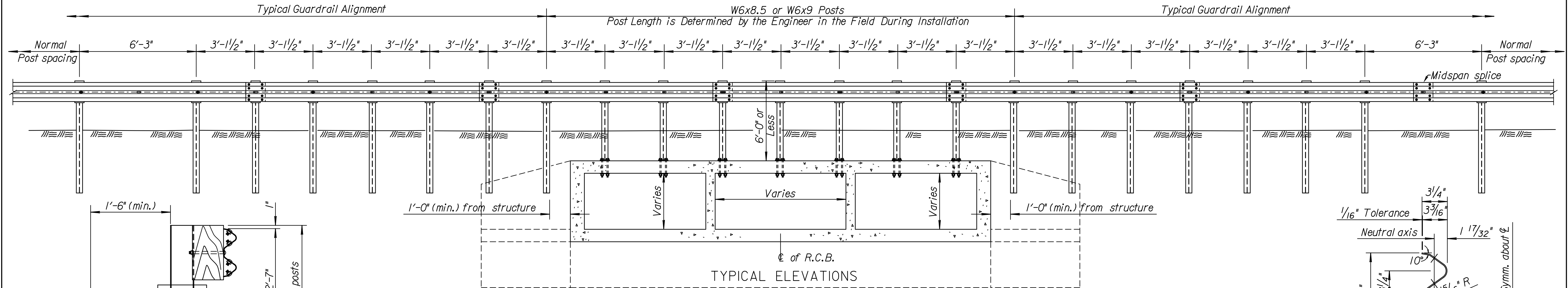
Use Standard W-Beam Guardrail throughout.

See Standard Drawing RD611A for guardrail post and breakout details not shown on this sheet.

Guardrail layout shown this sheet is for flared installation, see Standard Drawing RD606E for (MGS-FLEAT) End Terminal or Standard Drawing RD621A for (MGS-SRT) End Terminal.

Design Parameters				
Design Speed (mph)	Flare Rate (a:b)	Radius (R)	Flare Rate (2a:b)	Radius (R)
70	15:1	375.55'	30:1	375.14'
60	14:1	350.59'	26:1	325.16'
55	12:1	300.69'	24:1	300.17'
50	11:1	275.76'	21:1	262.70'
45	10:1	250.83'	18:1	225.23'
40	8:1	201.04'	16:1	200.26'

Note: Where guardrail is beyond shy line use flare rate of a:b and 25'-0" curve length. When guardrail is located inside shy line use flare rate of 2 a:b and 12'-6" curve length.



KANSAS DEPARTMENT OF TRANSPORTATION			
ALIGNMENT (FLARED) & DETAILS FOR (MGS) GUARDRAIL ON BRIDGE-SIZED STRUCTURES			
RD617E			
DESIGNED	1-3-13	APP'D.	James O. Brewer
DESIGN CK.	DATE	QUANTITIES	TRACED
		QUAN. CK.	BY
			APP'D.

KDOT Graphics Certified 01-07-2013