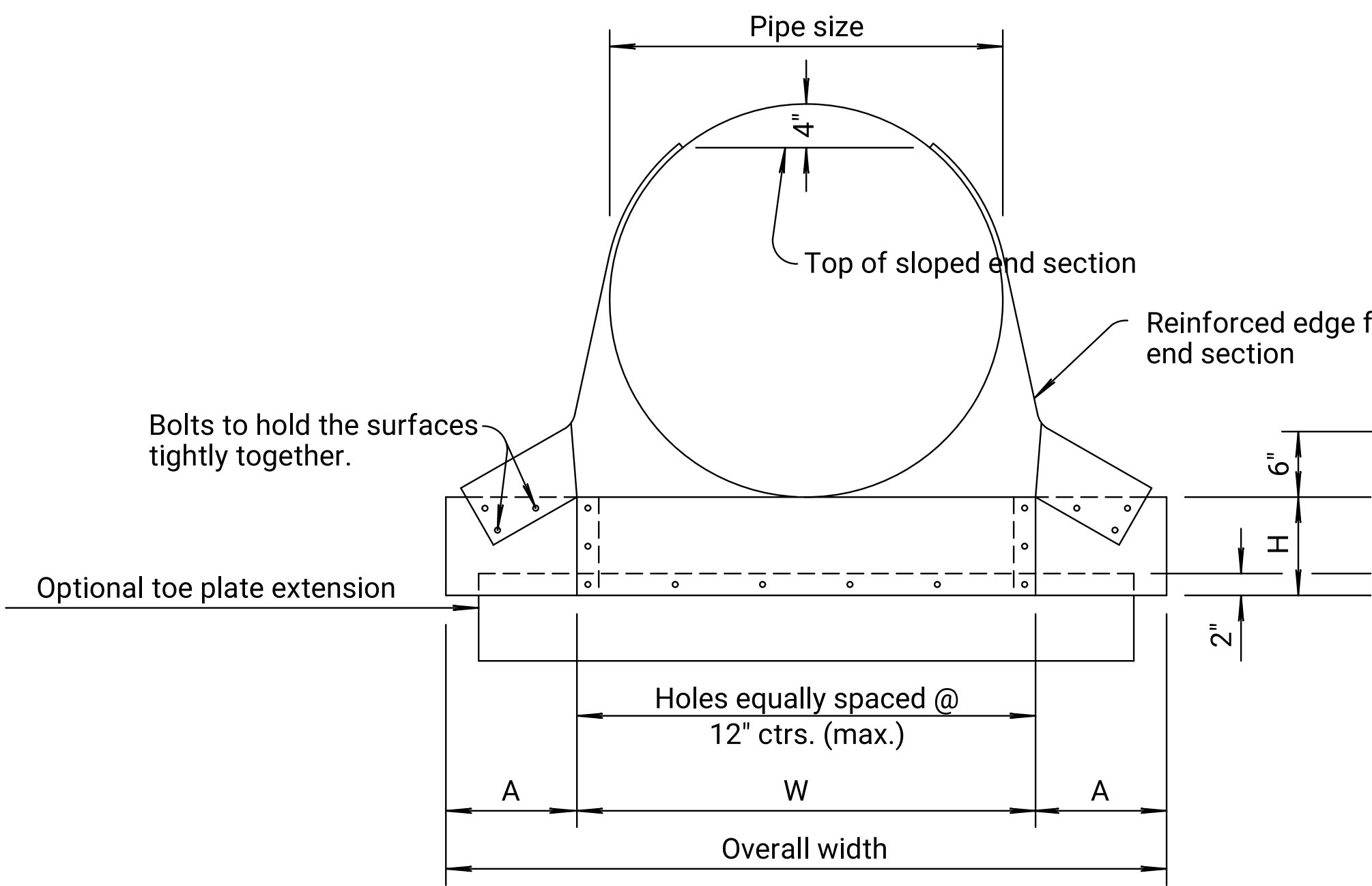
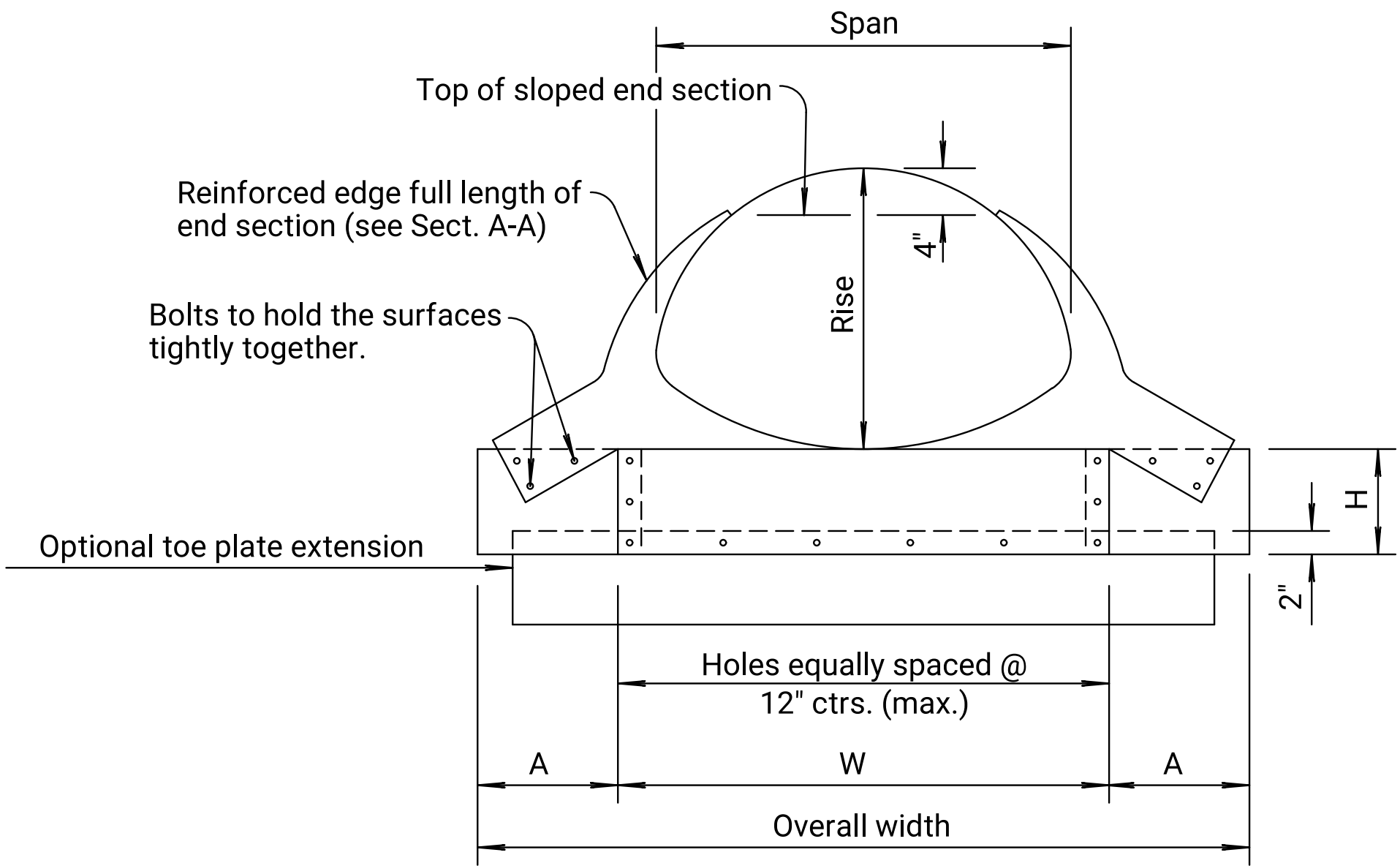


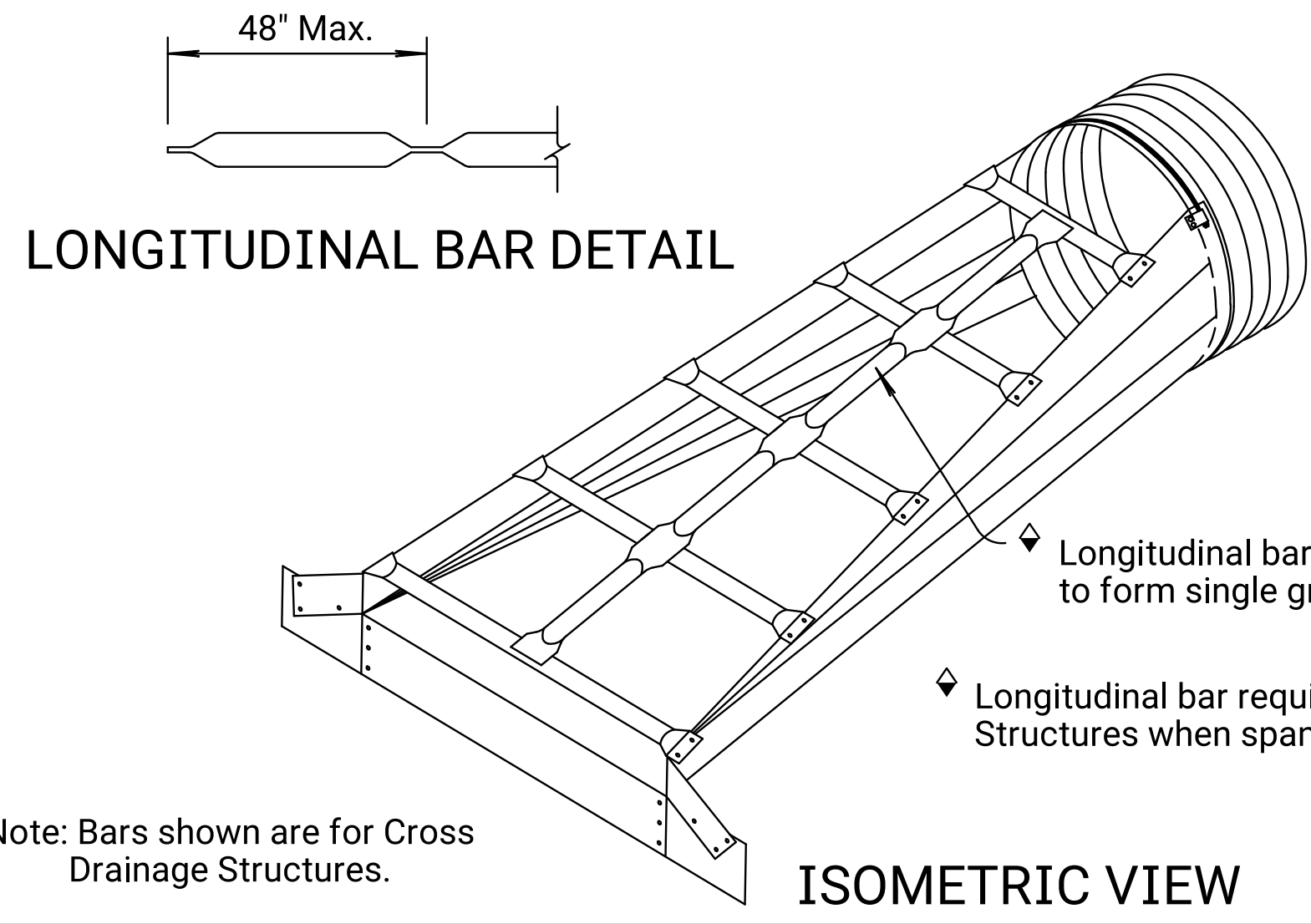
Note to Designer: KDOT Pipe Policy provides guidance in identifying the prohibited and/or restricted uses of CSP, ACSP, PEP, PVCP, CAP & RCP. Provide end sections of the same type and coating as the pipe. Exceptions to this are noted in the Standard Specifications. Refer to the KDOT Design Manual, Volume I (Part C), Road Section, "Elements of Drainage & Culvert Design" for structural pipe design information which includes: corrugations, sizes, gauges, maximum/minimum fill heights and classes of pipe.



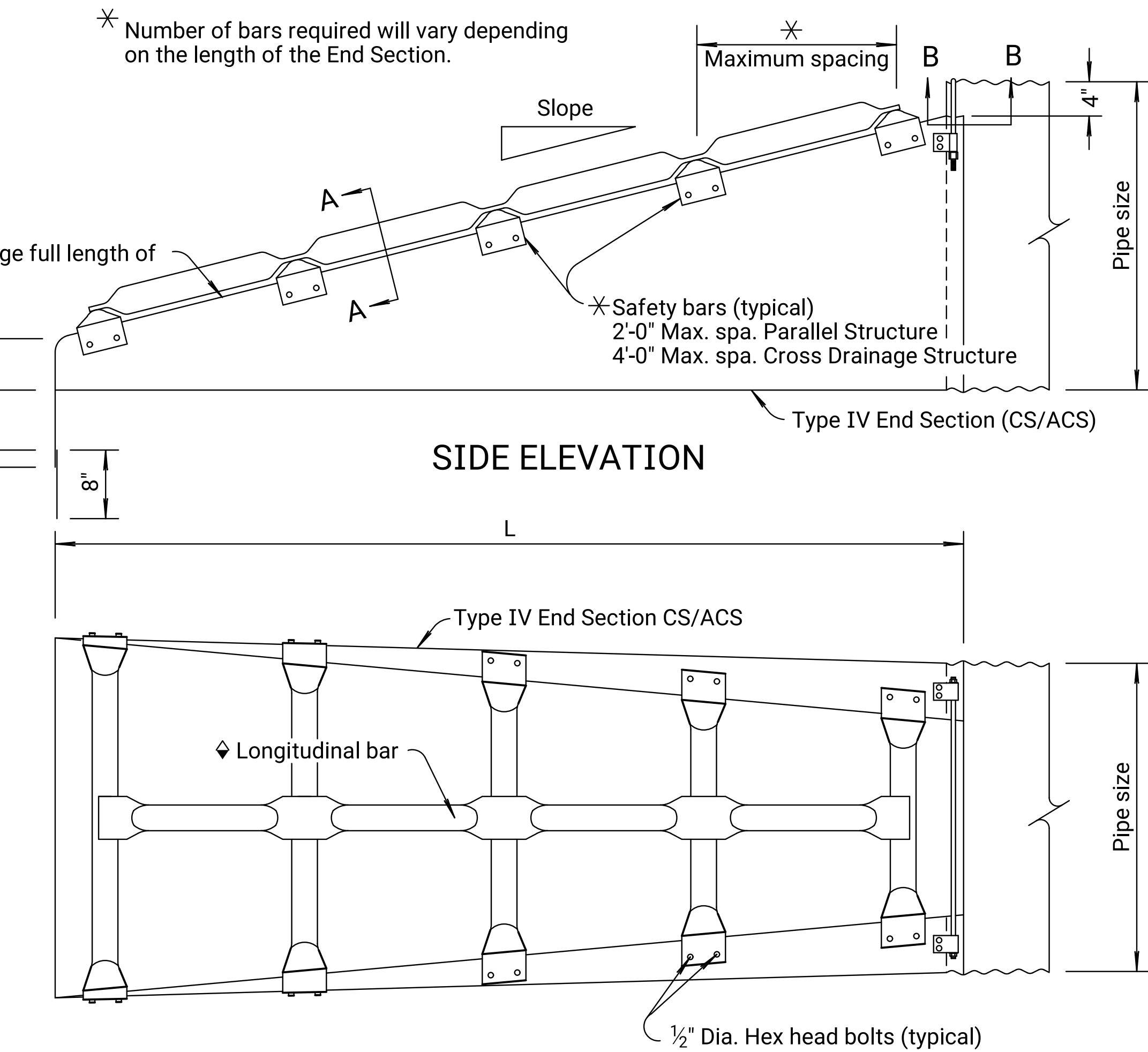
FRONT VIEW CIRCULAR PIPE



FRONT VIEW ARCHED PIPE

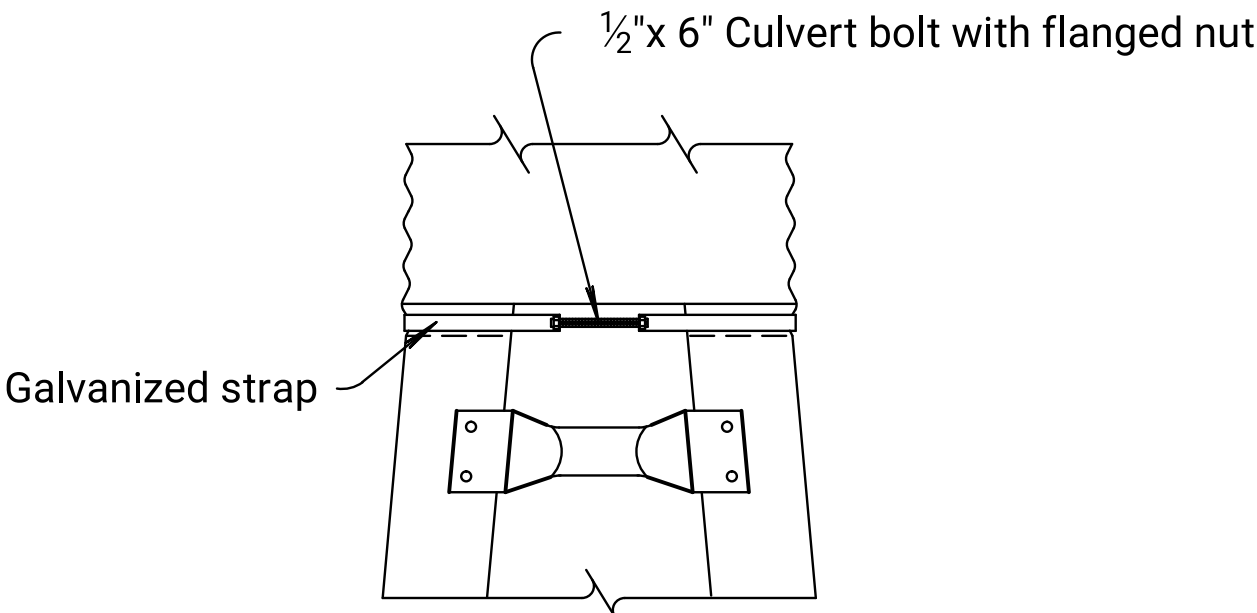


ISOMETRIC VIEW



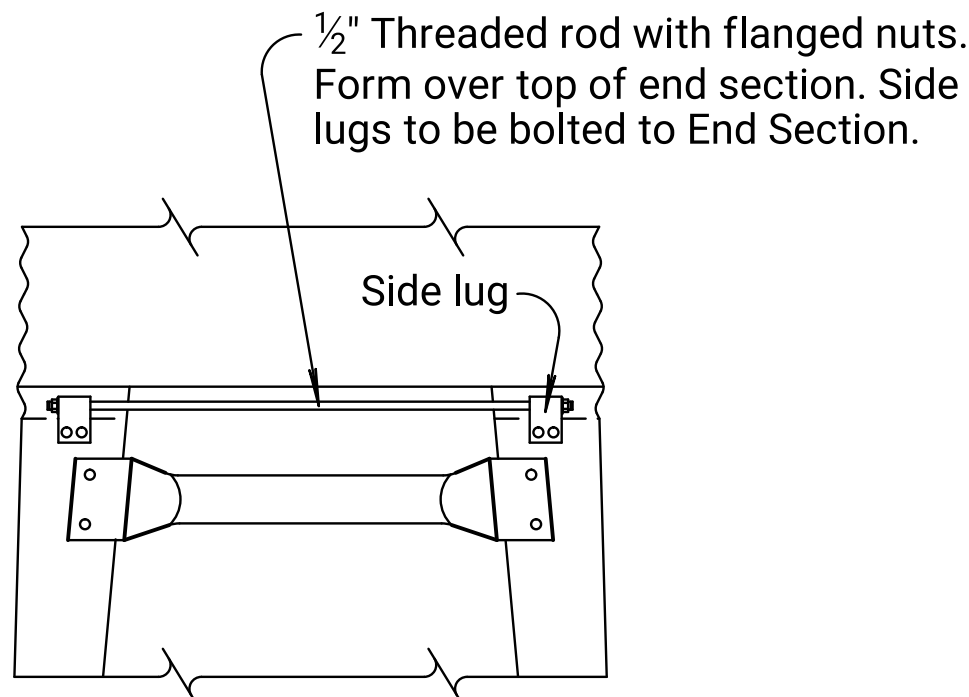
SIDE ELEVATION

TOP VIEW



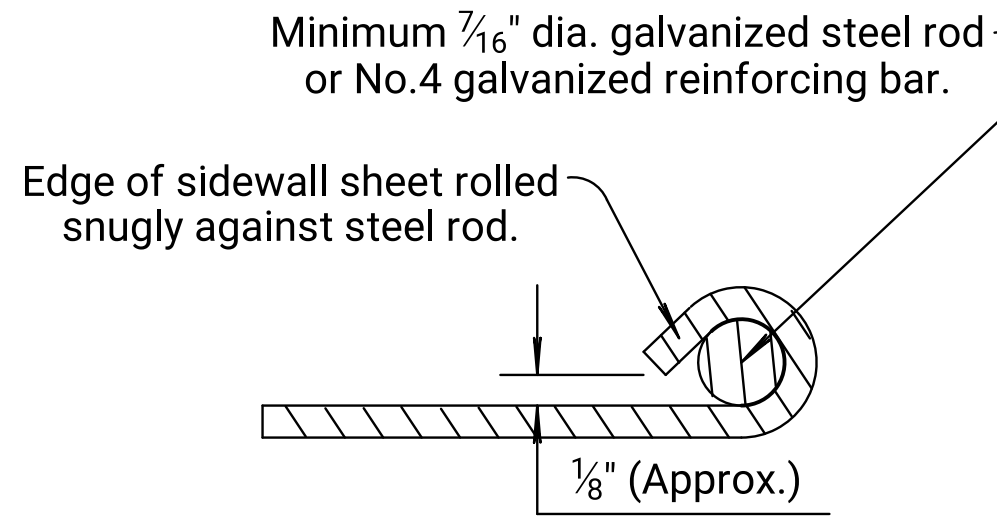
TYPE 1 CONNECTOR DETAIL

For 15" thru 24" pipe

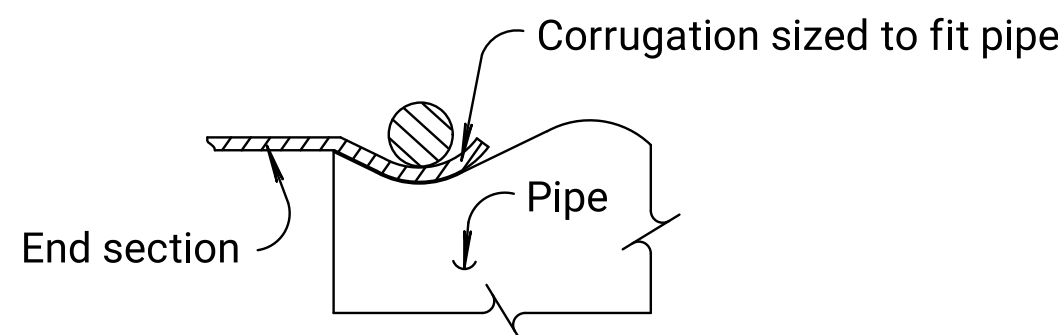


TYPE 2 CONNECTOR DETAIL

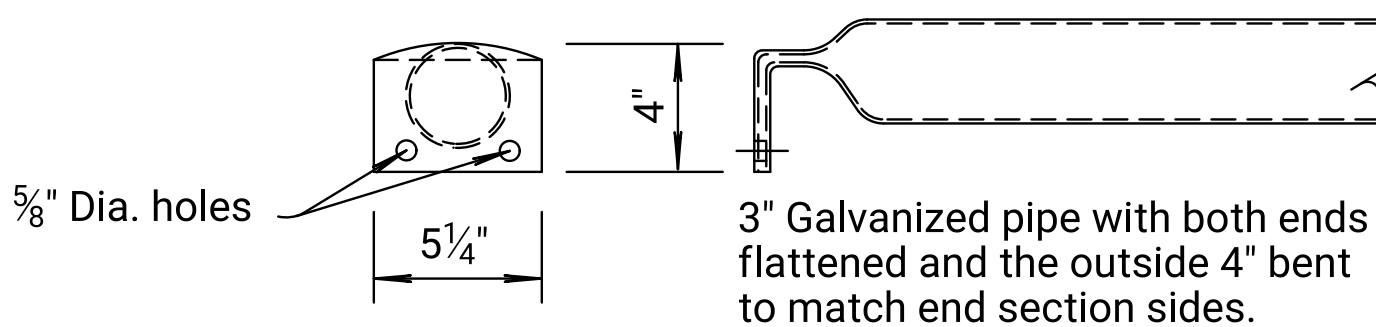
For 30" and larger round pipes & 21"x15" and larger arched pipes.



SECTION A-A



SECTION B-B



DETAIL OF SAFETY BAR

TYPE IV END SECT. (CS/ACS) FOR CIRCULAR PIPES									
Pipe Dia. (In.)	Min. Gauge Ends	Dimensions in Inches				L Dimensions			
		A 1" Tol.	H 1" Tol.	W 2" Tol.	Overall Width	Slope	Length (In.)	Slope	Length (In.)
15"	16	8	6	21	37	4:1	20	6:1	30
18"	16	8	6	24	40	4:1	32	6:1	48
21"	16	8	6	27	43	4:1	44	6:1	66
24"	16	8	6	30	46	4:1	56	6:1	84
30"	12	12	9	36	60	4:1	80	6:1	120
36"	12	12	9	42	66	4:1	104	6:1	156
42"	12	16	12	48	80	4:1	128	6:1	192
48"	12	16	12	54	86	4:1	152	6:1	228
54"	12	16	12	60	92	4:1	176	6:1	264
60"	12	16	12	66	98	4:1	200	6:1	300

* Where CMMAC (CSP/ACSP/CAP) with Type IV End Section is specified in the sizes indicated, pipe corrugation of 2 2/3" x 1/2" and corresponding rise and span in accordance with applicable ASTM Specifications may be substituted for the normally required 3" x 1" corrugated pipe when fill height over top of pipe is equal to or less than 4'-0".

TYPE IV END SECTIONS (CS/ACS) FOR ARCHED PIPES												
Equiv. Dia. (In.)	Nom. W.W. Area Sq. Ft.	Pipe Arch		Min. Gauge End Sect.	Dimensions in Inches				Slope	Length (In.)	Slope	Length (In.)
		Span (In.)	Rise (In.)		A	H	W	Overall Width				
18	1.6	21	15	16	8	6	27	43	4:1	20	6:1	30
21	2.2	24	18	16	8	6	30	46	4:1	32	6:1	48
24	2.9	28	20	16	8	6	34	50	4:1	40	6:1	60
30	4.5	35	24	14	12	9	41	65	4:1	56	6:1	84
36	6.5	42	29	12	12	9	48	72	4:1	76	6:1	114
42	8.9	49	33	12	16	12	55	87	4:1	92	6:1	138
48	11.6	57	38	12	16	12	63	95	4:1	112	6:1	168
54	14.7	*	*	12	16	12	70	102	4:1	132	6:1	198
60	18.1	*	*	12	16	12	77	109	4:1	148	6:1	222
72	26.0	*	*	12	16	12	89	121	4:1	188	6:1	282

05	02-05-08	Added ref. to KDOT Pipe Policy	S.W.K.	J.O.B.
04	01-16-96	Revised tables	R.J.S.	J.O.B.
03	02-24-94	Remove conc. pipe & add slope	R.J.S.	J.O.B.
NO.	DATE	REVISIONS	BY	APPD
KANSAS DEPARTMENT OF TRANSPORTATION				
TYPE IV END SECTION FOR CIRCULAR AND ARCHED PIPES (CORRUGATED METAL PIPE)				
RD664				
FHWA APPROVAL		05-27-08	APPD.	James O. Brewer
DESIGNED	DETAILED	QUANTITIES	TRACED	
DESIGN CK.	DETAIL CK.	QUAN. CK.	TRACE CK.	