

	TABLE ②																		
Beam Size	Bearing Pad Size			Steel Plates		Laminates		Shape Factor	Bearing Plate Size			Curved Plate Size			Pintle Dia.	Pintle Spacing	Anchor Rod Offset	Assy. Height	Assembly Type
3120	Α	В	D ´	No.	Thick.	No.	Thick.	1 2 3 1 3 1	С	E	F	G	Н	J		K	М	L	As
72"	12"	24"	11/4"	2	1/8"	J	1/2"	8.0	14"	34"	11/4"	41/2"	26"	14"	11/2"	1'-4"	0"	3 3/4"	
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NOTES:

For elastomeric materials & pad construction, see Spec. 3741 and special provisions, except as noted.

All steel plates & anchor rods shall comply with Spec. 3306, except as noted.

All plates shall be flat after fabrication and galvanizing. Welding distortion of bearing plates shall be straightened to within 1/16" of flatness by mechanical means without damage to the zinc coating.

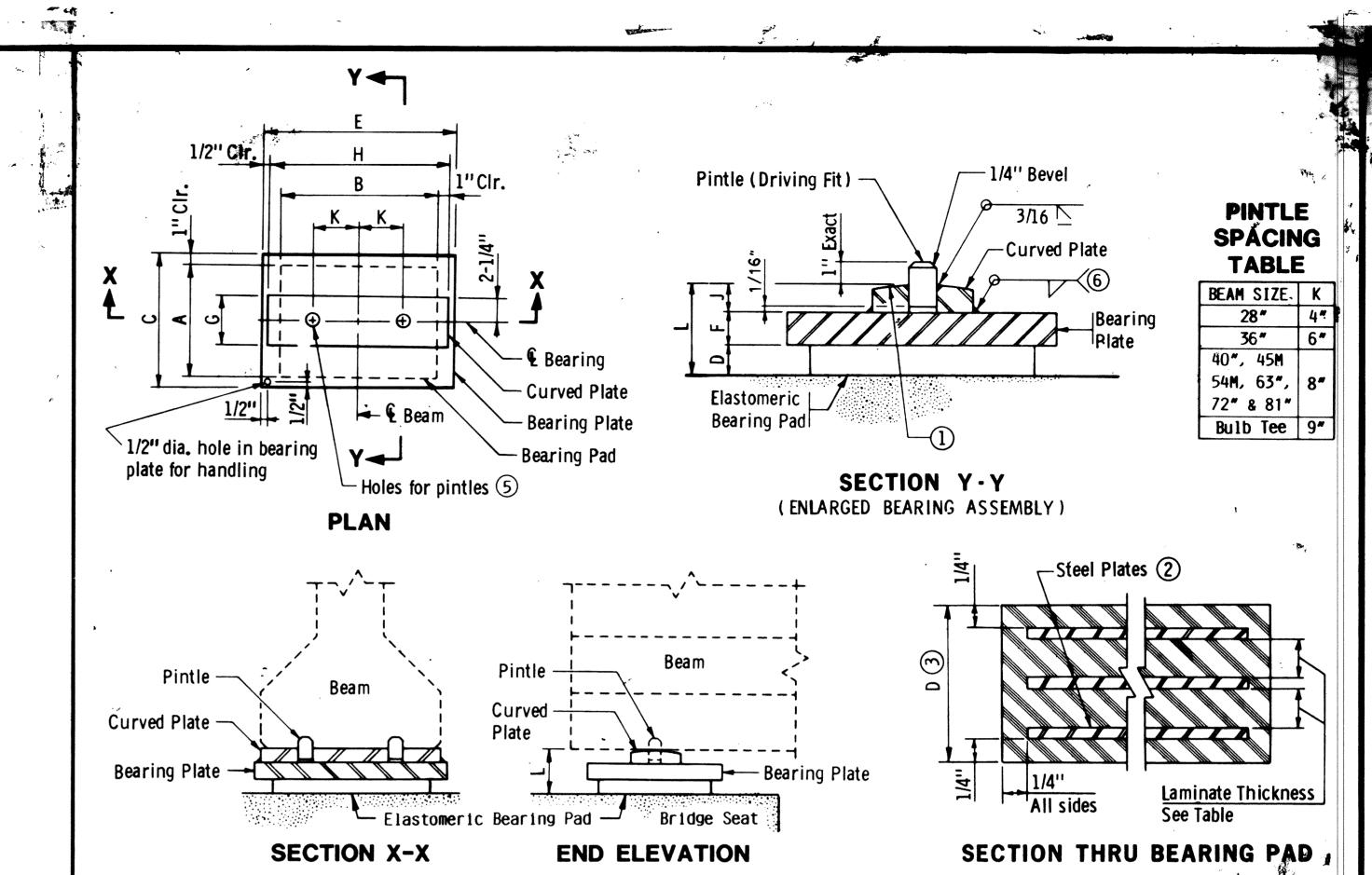
Pintles shall comply with Spec. 3314, Type II

Galvanize anchor rods and structural steel bearing assembly after fabrication per Spec. 3394, except as noted.

Payment for bearing assembly shall include all material on this detail.

- 1) The radius of the curved plate shall be 1'0" min. & 1'6" max. Finish to 250 Micro. The finished thickness of the plate may be 1/16" less than shown.
- (2) See Bridge Design Manual for design requirements.
- (3) 1-1/4" dia. pintle for total loads to 200 Kips. 1-1/2" dia. pintle for total loads over 200 Kips.
- 4 For bearing plate thicknesses up to 1-1/2" use 5/16" fillet welds; for thicknesses over 1-1/2" to 2-1/4" use 3/8" fillet welds; for thicknesses over 2-1/4" use 1/2" fillet welds with minimum preheat of 300°.

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	APPROVED: August 4, 1987	STATE OF MINNESOTA DEPARTMENT OF TRANSPORTATION	REVISION	DETAIL NO.
	Developed by: ENGINEERING STANDARDS - and BRIDGES & STRUCTURES	CURVED PLATE BEARING ASSEMBLY		B310
101	, Issued by: ENGINEERING STANDARDS	PRESTRESSED CONCRETE BEAMS (FIXED)		



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Beam Size	Bearing Pad Size			Steel Plates		Laminates		Shape Factor	Bearing Plate Size			Curved Plate Size			Pintle Dia.	Pintle Spacing	Assy. Height	Assembly Type
	Α	В	D	No.	Thick.	No.	Thick.		C	E	F	G	Н	J	1	K	L	AS
72"	12"	24"	3 3/4"	0	1/8"	5	1/2"	8.0	14"	27"	11/4"	41/2"	26"	11/4"	11/2"	1'-4"	6 1/4"	
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NOTES:

For elastomeric materials & pad construction, see Spec. 3741 and special provisions, except as noted.

All steel plates shall comply with Spec. 3306, except as noted.

All plates shall be flat after fabrication and galvanizing. Welding distortion of bearing plates shall be straightened to within 1/16" of flatness by mechanical means without damage to the zinc coating.

Pintles shall comply with Spec. 3314, Type II

Galvanize structural steel bearing assembly after fabrication per Spec. 3394, except as noted.

Payment for bearing assembly shall include all material on this detail.

- 1) The radius of the curved plate shall be 1'0" min. & 1'6" max. Finish to 250 Micro. The finished thickness of the plate may be 1/16" less than shown.
- (2) Do not galvanize these plates.
- (3) The total thickness shown includes the steel plates.
- (4) See Bridge Design Manual for design requirements.
- (5) 1-1/4" dia. pintle for total loads to 200 Kips. 1-1/2" dia. pintle for total loads over 200 Kips.
- (6) For bearing plate thicknesses up to 1-1/2" use 5/16" fillet welds; for thicknesses over 1-1/2" to 2-1/4" use 3/8" fillet welds; for thicknesses over 2-1/4" use 1/2" fillet welds with minimum preheat of 300°.

RECORD PLAN OCT. 1993

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Developed by: ENGINEERING STANDARDS	DEPARTMENT OF TRANSPORTATION CURVED PLATE BEARING ASSEMBLY		D 211
and BRIDGES & STRUCTURES Issued by: ENGINEERING STANDARDS	PRESTRESSED CONCRETE BEAMS (EXPANSION)		B311
	(EAFANSIUN)	<u></u>	

S.P. 204-113-03

DETAILS

DES: MnDOT DR: MnDOT/GLA 7-2-92 CHK: DRM CHK: RLD

Bridge No.

Sheet No. 18 of 24 Sheets

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