

★ 400 K < REACTION < 1000 K. USE %" WELD. 1000 K < REACTION < 1500 K. USE ¾" WELD. \* FOR REACTION > 1000 KIPS USE 2" STIFFENERS.

## TABLE OF DIMENSIONS

	А	В	С	D	E	G VALUES									i		l	r		PINTLE					
REACTION (KIPS)						G=1'-7"		G=1'-9"		G=1'-11"		G=2'-1"		G=2'-3"		G=2'-5"		н	К	М	R	<u> </u>			
(KIFS)						F	L	F	L	F	L	F	L	F	L	F	L					STEM	PLATE	P DIA.	0
400-499	1151/16 "	215% "	3"	1'-2"	2 1/8"	2'-0"	2'-11"	2'-2"	2'-11"	2'-4"	3'-0"	2'-6"	3'-2"	_	_	_	_	1'- <b>7</b> 1/2"	1'-6"	2 1/8"	1'-1"	1"/16"	1% "	2"	31/2"
500-599	115%6"	215% "	3"	1'-2"	21/8"	2'-1"	3'-4"	2'-2"	3'-4"	2'-4"	3'-4"	2'-6"	3'-4"	_	_	_	_	1'-81/2"	1'-7"	27/8"	1'-2"	111/16"	1% "	2"	31/2"
600-699	115/16"	215%"	3"	1'-2"	21/8"	_	_	2'-3"	3'-8"	2'-4"	3'-8"	2'-6"	3'-8"	2'-8"	3'-8"	_	_	1'-91/2"	1'-8"	2 1/8"	1'-3"	1"/16"	1% "	2"	31/2"
700-799	2¾6"	31/16"	31/2"	1'-4"	3%"	_	_	_	_	2'-6"	3'-10"	2'-6"	3'-10"	2'-8"	3'-10"	2'-10"	3'-10'	1'-111/2"	1'-10"	33/8"	1'-4"	115//6"	161/64 "	2"	31/2"
800-899	23/6"	31/16"	31/2"	1'-4"	3%"	_	_	_	_	2'-7'	3'-11"	2'-7"	3'-11"	2'-8"	3'-11"	2'-10"	3'-11"	2'-01/2"	2'-0"	3%"	1'-5"	115% "	161/64 "	2"	31/2"
900-999	2¾6"	31/6"	31/2"	1'-4"	33/8"	_	_	_	_	2'-11'	4'-0"	2'-11"	4'-0"	2'-11"	4'-0"	2"-11"	4'-0"	2'-11/2"	2'-2"	3%"	1'-6"	115/16"	161/64 "	2"	31/2"
1000-1099	21/16"	31%;"	4"	1'-6"	31/8"	_	_	_	_	_	_	3'-1"	4'-1"	3'-1"	4'-1"	3'-1"	4'-1"	2'-31/2"	2'-4"	3%"	1'-7"	2¾6"	213/64 "	21/2"	33/4"
1100-1199	21/16"	315/6"	4"	1'-6"	3%"	_	_	_	_	_	_	3'-3"	4'-2"	3'-3"	4'-2"	3'-3"	4'-2"	2'-41/2"	2'-6"	3%"	1'-8"	2%"	211/64 "	21/2"	33/4"
1200-1299	21/16"	31%;"	4"	1'-6"	31/8"	_	_	_	_	_	_	_	_	3'-5"	4'-4"	3'-5"	4'-4"	2'-51/2"	2'-7"	31/8"	1'-9"	2%"	213/64 "	21/2"	3¾"
1300-1399	21/16"	31%"	4"	1'-6"	3%"	_	_	_	_	_	_	_	_	3'-7"	4'-7"	3'-7"	4'-7"	2'-61/2"	2'-8"	3%"	1'-10"	2¾6"	213/64 "	21/2"	33/4"
1400-1500	21/16"	315% "	4"	1'-6"	31/8"	_	_	_	_	_	_	_		3'-9"	4'-9"	3'-9"	4'-9"	2'- <b>7</b> 1/2"	2'-9"	3%"	1'-11"	2%"	211/64 "	21/2"	3¾"
															40										
						G=1	-2"			G=1	!-3"			G=1	-4"									<u> </u>	$\vdash$
0-300	115/16"	215/16"	3"	1-0"	2%"	1'-7"	2'-3"			1'-8"	2'-4"			1'-9"	2"-5"			1'-5"	1'-4"	2%"	11"	1"/16"	1% "	2"	31/2"

## <u>NOTES</u>

FABRICATOR MAY INCREASE 'BASE PLATE' THICKNESS AS AN ALTERNATE TO SHIMS.

ALL STRUCTURAL STEEL BEARING PLATES SHALL BE FLAT ROLLED STEEL PLATES WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL.

ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS. ON WELDED BEARINGS, FINAL MACHINING CAN BE PERFORMED BEFORE WELDING IS COMPLETED.

ALL MATERIAL IN TYPE "B" ROCKER BEARINGS, INCLUDING SHIMS, SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "BEARING ASSEMBLIES EXPANSION B-\_-."

ALL MATERIALS FOR BEARINGS INCLUDING SHIMS BUT EXCLUDING PINTLES, ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM SPECIFICATION TYPE A709 GRADE 50W STEEL.

PINTLES SHALL CONFORM TO ASTM SPECIFICATION TYPE A449 STEEL. PINTLES SHALL BE MACHINED TO A DRIVING FIT.

ALL ANCHOR BOLTS, NUTS, AND WASHERS SHALL CONFORM TO ASTM SPECIFICATION TYPE ATO9 GRADE 36 ♠ STEEL. ANCHOR BOLTS SHALL BE THREADED 3". PROVIDE ONE STANDARD WROUGHT WASHER AND ONE HEX NUT PER BOLT. PROJECT ANCHOR BOLTS "M" PLATE THICKNESS + 2½", ABOYE TOP OF CONCRETE MASONRY, CHAMFER ANCHOR BOLTS PRIOR TO THREADING.

RADIAL SURFACES ON ROCKER SHALL BE MACHINE FINISHED AFTER WELDING.

ALL SURFACES MARKED " $\mathcal F$  " SHALL BE MACHINE FINISHED BY AN AUTOMATIC PROCESS. THE CONTACT AREA OF BOTTOM SURFACE OF THE GIRDER FLANGE SHALL BE MACHINE FINISHED.

ANCHOR BOLT EDGE DISTANCE ALONG "L" MAY BE INCREASED FROM MINIMUM SHOWN WHEN A COMMON GRID DETAIL IS DESIRED FOR SEVERAL REARING.

FOR UNPAINTED STRUCTURES THE UPPER 6" OF ANCHOR BOLTS. NUTS AND WASHERS SHALL BE GALVANIZED AS REQUIRED BY ASTM DESIGNATION A153, CLASS C OR B633.

USE AASHTO LRFD SERVICE ILOADS FOR BEARING SELECTION. CONSIDER ONLY DEAD LOAD AND H.-93 LIVE LOADS INCLUDING 33% DYNAMIC LOAD ALLOWANCE. THE BEARINGS ON THIS STANDARD WERE DESIGNED USING THE STANDARD SPECIFICATION.

## ROCKER SETTING DATA

TEMPERATURE TIME OF SETTING - °F	(+)											
ᄣ	PIER	PIER	PIER	PIER								
120												
100												
80												
60												
40												
20												
0												
-20												

ROCKER BEARING SHALL BE SET VERTICAL AT 45° F.

ROCKER BEARING SHALL BE USED WITH A MINIMUM FRICTION VALUE OF 2% AND A MAXIMUM FRICTION VALUE OF 4%.

MAXIMUM MOVEMENT FROM 45° F = (D - 1")/2 BUT ACTUAL MOVEMENT NOT TO EXCEED R/3.

OR MATERIAL OF EQUIVALENT YIELD STRENGTH AND ELONGATION.

ROCKER BEARING TYPE 'B' - STEEL GIRDERS



APPROVED: Laura Shadewald

7-16