

ELASTOMERIC BEARING SCHEDULE (TYPE I AND II)

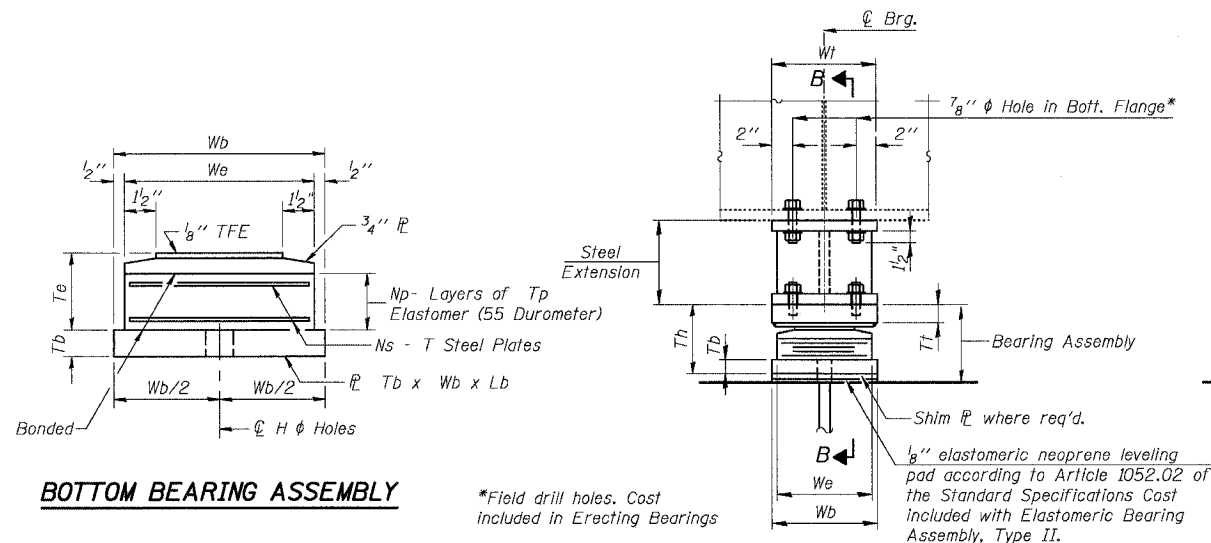
F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2003-028F	COOK	419	250
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

62580

SUPPORTING REACTIONS AND MINIMUM JACKING CAPACITY

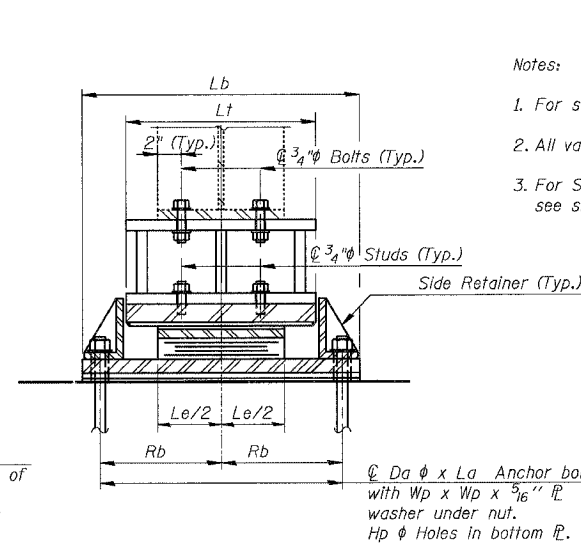
S/N	Pier	DL + 1/2(LL+I)	Min. Jack. Capacity (k)
016-0137	8	130	195
	10	113	170
	12	126	190
	14	126	190
	16	113	170
	20	130	195
016-1110	2	231	350
	5	173	260
	22	136	205
016-1111	3	161	245
	4	161	245
	6	161	245
	8	161	245
	9	161	245
	11	161	245
016-1116	1	480	720
	(IGN2-4)	365	550

Bearing Location	Pier	Type	Bearing Designation	No. Req.'d	Th	Elastomeric Bearing						Top Plate				Bottom Plate			Anchor Bolts					Side Retainer						
						Wb	Le	Te	Tp	Np	Ts	Ns	Wt	Lt	Ttn	Tts	Rt	Wb	Lb	Tb	Da	La	Rb	H	Wp	y	z	t	Hp	v
016-0137	8	I	12-b	11	5 1/16	12	18	2 13/16	9/16	4	3/16	3	13	20	3	3	9	-	-	-	1 1/2	18	12 7/8	-	3	2 3/4	5 1/2	5/8	1 3/4	5 3/4
	10	I	11-a	11	5	11	16	2 3/8	1/2	4	1/8	3	12	18	2 7/16	2 13/16	8	-	-	-	1 1/4	15	11 1/2	-	2 3/4	2 3/8	4 3/4	1/2	1 1/2	5 1/4
	12	I	12-b	10	5 7/16	12	18	2 13/16	9/16	4	3/16	3	13	20	2 7/16	2 13/16	9	-	-	-	1 1/2	18	12 7/8	-	3	2 3/4	5 1/2	5/8	1 3/4	5 3/4
	14	I	12-b	10	5 7/16	12	18	2 13/16	9/16	4	3/16	3	13	20	2 7/16	2 13/16	9	-	-	-	1 1/2	18	12 7/8	-	3	2 3/4	5 1/2	5/8	1 3/4	5 3/4
	16	I	12-b	10	5 7/16	12	18	2 13/16	9/16	4	3/16	3	13	20	2 7/16	2 13/16	9	-	-	-	1 1/2	18	12 7/8	-	3	2 3/4	5 1/2	5/8	1 3/4	5 3/4
	20	I	11-a	11	5	11	16	2 3/8	1/2	4	1/8	3	12	18	2 7/16	2 13/16	8	-	-	-	1 1/4	15	11 1/2	-	2 3/4	2 3/8	4 3/4	1/2	1 1/2	5 1/4
22	I	12-b	11	5 7/16	12	18	2 13/16	9/16	4	3/16	3	13	20	2 7/16	2 13/16	9	-	-	-	1 1/2	18	12 7/8	-	3	2 3/4	5 1/2	5/8	1 3/4	5 3/4	
016-1110	2	I	15-c	8	7 1/2	15	24	4 1/2	3/4	5	3/16	4	16	26	3	3	12	-	-	-	1 1/2	18	15 7/8	-	3	2 3/4	5 1/2	5/8	1 3/4	7 3/4
	5	I	14-c	13	7 5/16	14	22	4 3/16	11/16	5	3/16	4	15	24	3	3	11	-	-	-	1 1/2	18	14 7/8	-	3	2 3/4	5 1/2	5/8	1 3/4	7 1/4
016-1111	3	II	13-b	8	8 1/2	13	20	3 15/16	5/8	4	3/16	3	14	22	3	3	10	14	33 1/4	1 1/2	1 1/2	18	13 7/8	2	3	2 3/4	5 1/2	5/8	1 3/4	6 1/8
	4	I	13-b	8	6 1/2	13	20	3 1/16	5/8	4	3/16	3	14	22	3	3	10	-	-	-	1 1/2	18	13 7/8	-	3	2 3/4	5 1/2	5/8	1 3/4	6
	6	I	13-b	8	6 1/2	13	20	3 1/16	5/8	4	3/16	3	14	22	3	3	10	-	-	-	1 1/2	18	13 7/8	-	3	2 3/4	5 1/2	5/8	1 3/4	6
	8	II	13-b	8	8 1/2	13	20	3 15/16	5/8	4	3/16	3	14	22	3	3	10	14	33 1/4	1 1/2	1 1/2	18	13 7/8	2	3	2 3/4	5 1/2	5/8	1 3/4	6 1/8
	9	I	13-b	8	6 1/2	13	20	3 1/16	5/8	4	3/16	3	14	22	3	3	10	-	-	-	1 1/2	18	13 7/8	-	3	2 3/4	5 1/2	5/8	1 3/4	6
11	I	13-b	8	6 1/2	13	20	3 1/16	5/8	4	3/16	3	14	22	3	3	10	-	-	-	1 1/2	18	13 7/8	-	3	2 3/4	5 1/2	5/8	1 3/4	6	



*Field drill holes. Cost included in Erecting Bearings

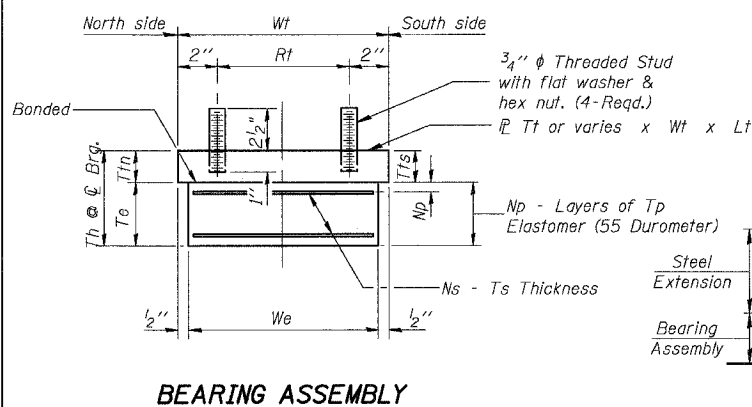
ELEVATION AT PIER SECTION B-B TYPE II ELASTOMERIC EXP. BRG.



- Notes:
- For side retainer detail see sheet no 251
 - All values in Elastomeric Bearing Table are inches.
 - For Steel Extension details and dimensions see sheet no 251

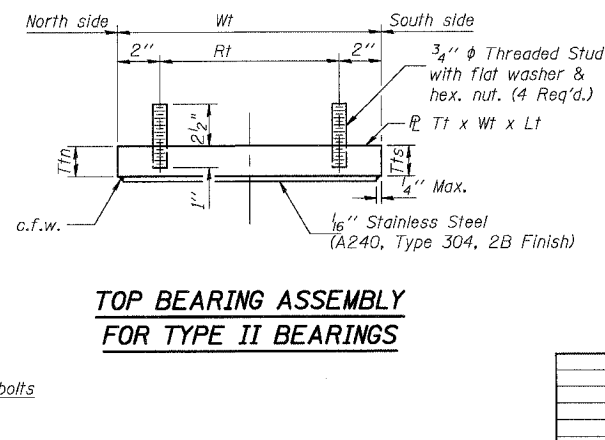
PROCEDURE TO JACK AND REMOVE EXISTING BEARINGS

- See Special Provision "Jack and Remove Existing Bearings"
- Jacking and removing existing bearings, including top and bottom plates and lead plates, shall be done after deck scarification is completed and before the new overlay is poured.
- See table for support reactions and min. jacking capacities.
- For jacking capacity see table above.
- Burn existing anchor bolts flush with the top of existing concrete surface. Grind existing anchor bolts smooth and seal with epoxy. Cost is included with "Jack and Remove Existing Bearings".
- Top plates welded to the bottom flange of beams shall be removed using air arc-methods. Grind smooth all weld material remaining on the bottom flange.
- The new bearings shall be in place and jacks shall be lowered before the overlay is poured.
- Notes applicable to bearing manufacturer are provided for information only. Erection contractor shall only refer to notes and details applicable for existing bearing removal and installation of provided bearings and extensions.
- If the analysis submitted by the contractor for the jacking / temporary support system to be used shows temporary stiffeners are required to prevent web crippling or buckling the stiffeners shall be steel and bolted to the web. If the stiffeners are not required, hardwood timbers shall be installed tightly between the top and bottom flange to prevent flange rotation.



Note: Shim plates shall not be placed under Bearing Assembly.

ELEVATION AT PIER SECTION A-A TYPE I ELASTOMERIC EXP. BRG.



TOP BEARING ASSEMBLY FOR TYPE II BEARINGS

REVISIONS	DATE
NAME	

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 NB DAN RYAN ELEVATED BRIDGE
 REPAIR FROM 15TH TO 28TH STREETS
 ELASTOMERIC BEARING
 DETAILS

SCALE: NTS
 DATE: 7/22/2005

DRAWN BY: LM
 CHECKED BY: BLU

BOWMAN, BARRETT & ASSOCIATES INC.
 CONSULTING ENGINEERS
 Chicago, Illinois
 312.228.0100
 www.bbainc.com