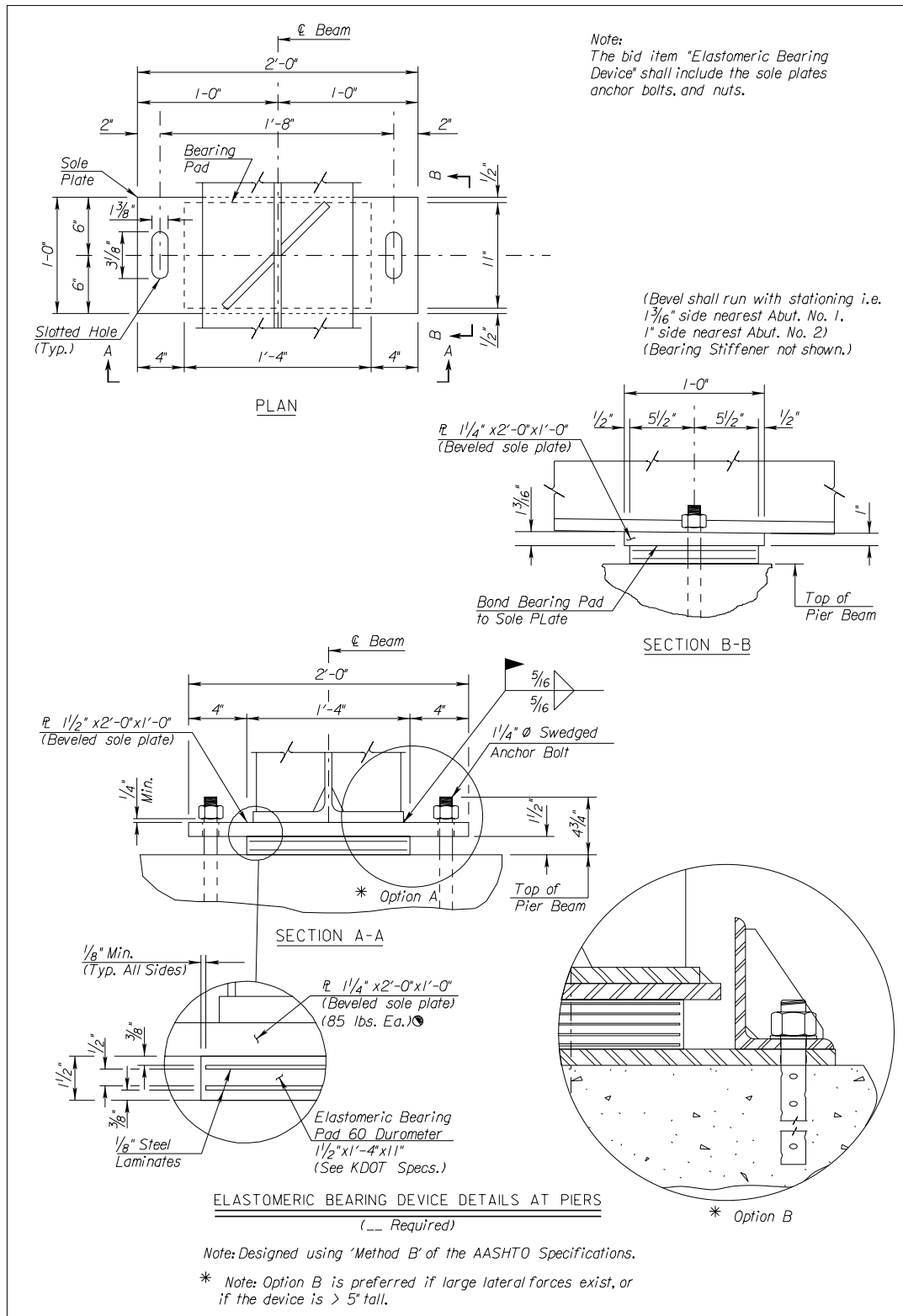
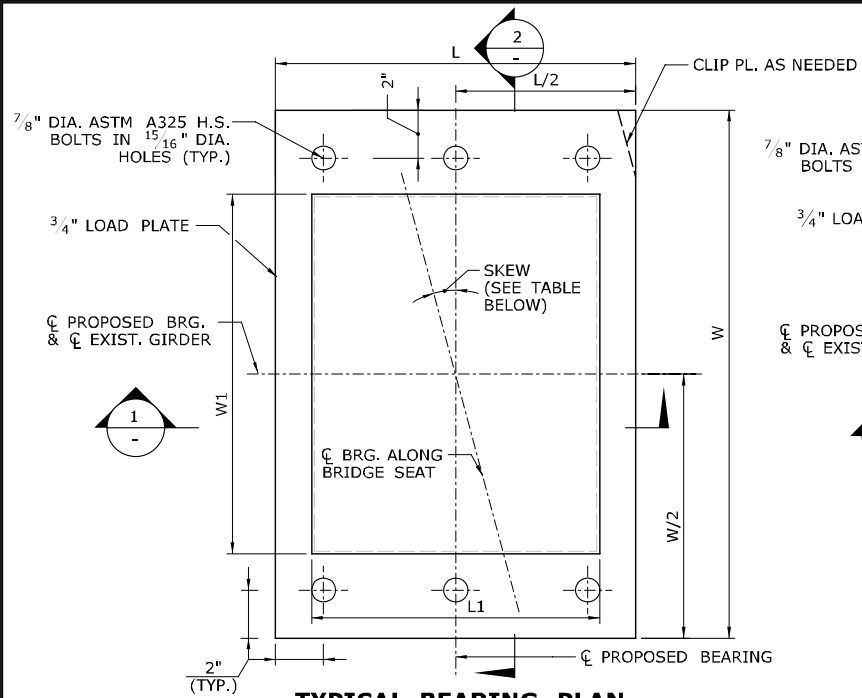
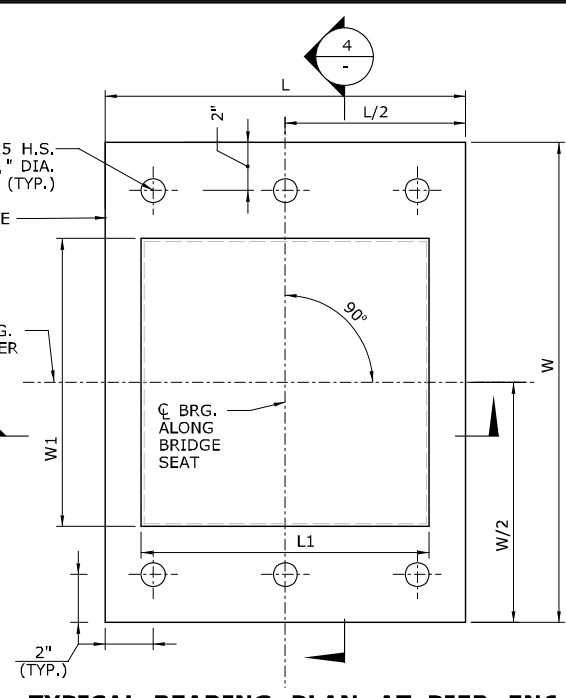


Figure 14-7 Example-Elastomeric Bearing Device

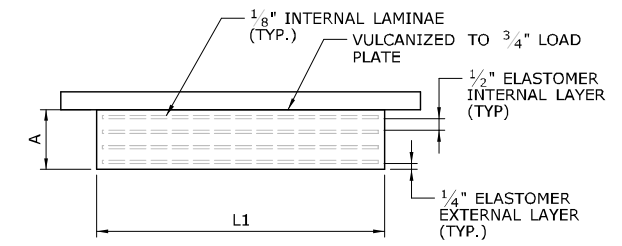




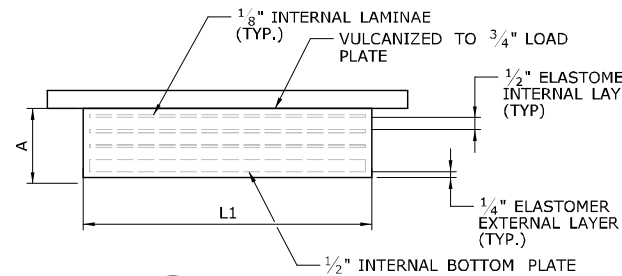
**TYPICAL BEARING PLAN
(ALL LOCATIONS EXCEPT PIER EN6)**



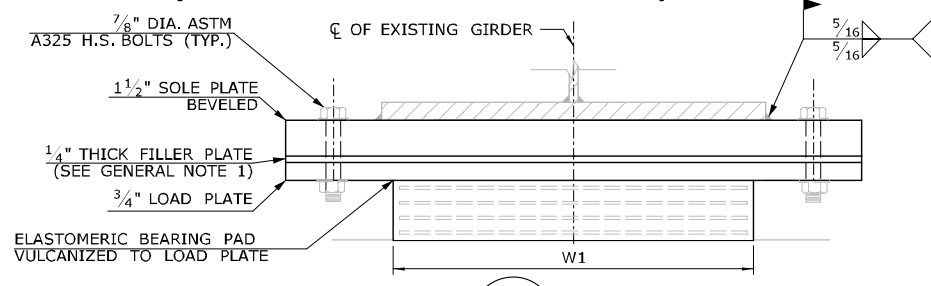
TYPICAL BEARING PLAN AT PIER EN6



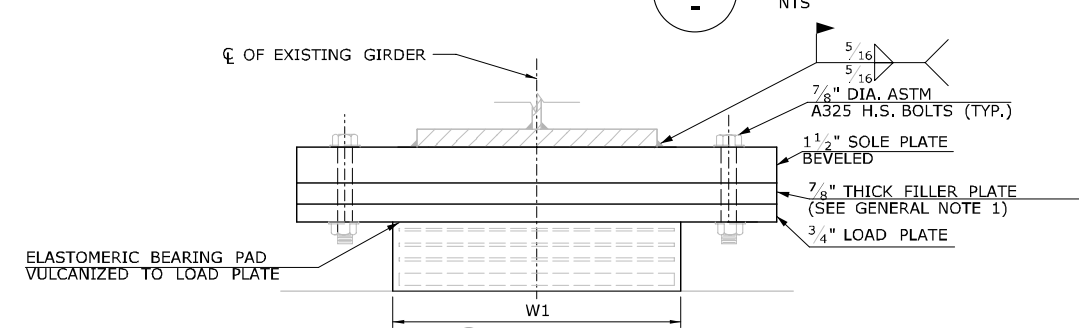
**1 SECTION
- NTS**



**3 SECTION
- NTS**



**2 SECTION
- NTS**



**4 SECTION
- NTS**

GENERAL NOTES:

- CONTRACTOR TO FIELD VERIFY EXISTING BEARING HEIGHTS PRIOR TO FABRICATION OF EXPANSION BEARINGS TO CONFIRM REQUIRED FILLER PLATE DIMENSIONS.
- REPLACEMENT OF ELASTOMERIC BEARING PAD SHALL BE PAID FOR UNDER THE PAY ITEM "BEARING REPLACEMENT WITH ELASTOMERIC BEARING PADS".

SUGGESTED BEARING REPLACEMENT SEQUENCE

- INSTALL JACKS AND RAISE SUPERSTRUCTURE UNTIL LOAD IS REMOVED FROM EXISTING STEEL BEARINGS. REFER TO JACKING DETAILS ON SHEET NO. SD-08.
- GRIND WELDS AND REMOVE EXISTING BEARING ASSEMBLIES FROM THE BEAMS.
- REPAIR/RECONSTRUCT CONCRETE BEARING PADS AS REQUIRED.
- PLACE SOLE PLATE SO THAT IT IS CENTERED UNDER CENTERLINE OF BEAM AND CENTERLINE OF BEARING. WELD SOLE PLATE TO THE BEAM BOTTOM FLANGE.
- AFTER WELDING, INSTALL FILLER PLATES (IF NECESSARY) AND LOAD PLATE WITH ELASTOMERIC BEARING PAD.
- LOWER JACK AND TRANSFER LOAD TO THE NEW BEARING PADS.

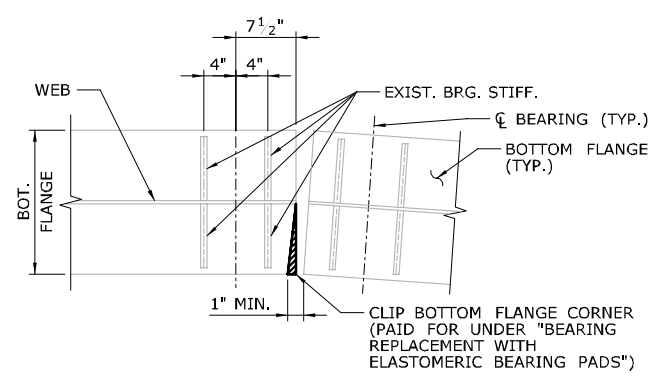
ELASTOMERIC BEARING NOTES:

- METHOD A WAS USED TO DESIGN STEEL REINFORCED RECTANGULAR ELASTOMERIC BEARING PADS.
- ELASTOMER SHALL HAVE A HARDNESS (SHORE 'A') 60 DUROMETER AND A SHEAR MODULUS WITHIN THE RANGE OF 0.13 KSI TO 0.20 KSI AT 73° F.
- STEEL LAMINAE SHALL CONFORM TO ASTM A1011, GRADE 36.
- THE TOP SURFACE OF THE NEW SOLE PLATE SHALL BE BEVELED TO MATCH SLOPE OF THE BOTTOM FLANGE OF GIRDER AFTER THE APPLICATION OF FULL DEAD LOAD.
- THE LOAD PLATE SHALL BE HOT BONDED TO THE ELASTOMERIC BEARING PAD DURING VULCANIZATION.
- FURNISHING AND FABRICATING LOAD PLATE INCLUDING H.S. BOLTS WILL BE PAID FOR UNDER ITEM "BEARING REPLACEMENT WITH ELASTOMERIC BEARING PADS". SOLE PLATE AND FILLER PLATES TO BE PAID FOR UNDER "STRUCTURAL STEEL REPAIRS (SITE NO. XX)".
- ELASTOMERIC BEARING PADS SHALL BE INSTALLED AT AN AMBIENT TEMPERATURE BETWEEN 50° F AND 70° F.
- BOLTS BETWEEN SOLE PLATE AND LOAD PLATES SHALL BE 7/8" DIA. AND CONFORM TO ASTM A325.
- BOLT HOLES IN LOAD AND SOLE PLATES SHALL BE 15/16" DIA.

PROPOSED ELASTOMERIC EXPANSION BEARINGS TABLE											
BRIDGE NO.	SPAN NO.	SUBSTR. UNIT	GIRDER NO.	SOLE/LOAD PLATE SIZE		ELASTOMERIC PAD SIZE		ELASTOMERIC PAD THICKNESS A (IN)	BOTTOM FL. WIDTH (IN)	# OF INTERNAL ELASTOMER LAYERS	SKEW
				L (IN)	W (IN)	L1 (IN)	W1 (IN)				
03399A	1	ES S. ABUT.	1A & 1K	15	20	12	12	2 1/2	10	3	15°
	1	ES S. ABUT.	1B-1J	15	20	12	12	2 1/2	11.5	3	15°
	1	PIER ES1	1A & 1K	15	20	12	12	2 1/2	10	3	15°
	1	PIER ES1	1B-1J	15	20	12	12	2 1/2	11.5	3	15°
03399B	2	PIER ES2	2A,2B,2J & 2K	15	28	12	15	3 3/8	20	4	15°-17°
	2	PIER ES2	2C-2H	15	28	12	15	2 1/2	20	3	15°-17°
	3	PIER ES2	3A-3L	15	23	12	15	2 1/2	12	3	15°-20°
03400B	3	PIER ES3	3A-3L	15	23	12	15	2 1/2	12	3	1°-4°
	4	PIER ES4	4A-4L	15	23	12	15	2 1/2	12	3	2°
	5	PIER ES5	5A-5G	15	23	12	15	2 1/2	12	3	1°
	6	PIER ES6	6A-6G	15	23	12	15	2 1/2	12	3	1°
03402B	7	PIER ES7	7A-7G	15	24	12	15	2 1/2	16	3	1°
	8	ES N. ABUT.	8A-8G	15	20	12	12	2 1/2	10	3	1°
	4	PIER SE4	4A-4G	15	24	12	15	2 1/2	16	3	1°
03402B	5	PIER SE5	5A-5G	15	24	12	15	2 1/2	16	3	2°
	6	PIER SE6	6A-6G	15	24	12	15	2 1/2	16	3	2°
	7	SE N. ABUT.	7A-7G	15	20	12	12	2 1/2	10	3	1°
03402B	1	PIER EN6	1A-1D	15	20	12	12	2 1/2	10	3	0°

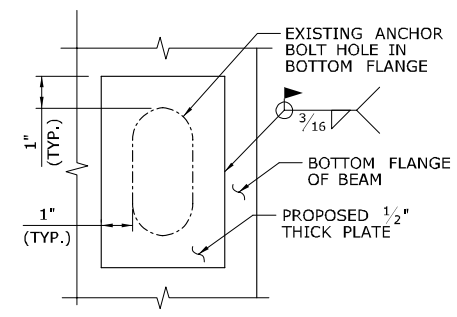
ELASTOMERIC BEARING DESIGN LOADS (SERVICE)				
BRIDGE NO.	SPAN NO.	SUBSTR. UNIT	DL (KIPS)	LL+I (KIPS)
03399A	SPAN 1	ES S. ABUT.	22	68
	SPAN 1	PIER ES1	22	68
	SPAN 2	PIER ES2	70	100
	SPAN 3	PIER ES2	49	86
03399B	SPAN 3	PIER ES3	49	86
	SPAN 4	PIER ES4	52	90
	SPAN 5	PIER ES5	47	81
	SPAN 6	PIER ES6	47	81
03400B	SPAN 7	PIER ES7	56	86
	SPAN 8	ES N. ABUT.	38	76
	SPAN 4	PIER SE4	60	88
03402B	SPAN 5	PIER SE5	60	87
	SPAN 6	PIER SE6	57	87
	SPAN 7	SE N. ABUT.	38	76
03402B	SPAN 1	PIER EN6	43	79

NOTE: FOR MINIMUM JACKING REACTIONS, REFER TO JACKING DETAILS ON SHEET NO. SD-08.



FLANGE CLIP DETAIL

SCALE: 1" = 1'-0"



ANCHOR BOLT HOLE COVER PLATE DETAIL

NTS

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: C. SORENSEN CHECKED BY: S. DRECHSLER	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/BLOCK: Alfred Benesch & Company 90 National Drive Glastonbury, CT	PROJECT TITLE: REHABILITATION OF I-84/SISSON AVENUE INTERCHANGE BRIDGES	TOWN: HARTFORD	PROJECT NO. 063-708 DRAWING NO. SD-07 SHEET NO. 16.07
REV. DATE REVISION DESCRIPTION SHEET NO. Plotted Date: \$DATES	SCALE AS NOTED Filename: \$FILEAS			DRAWING TITLE: PROPOSED BEARING DETAILS - 3		