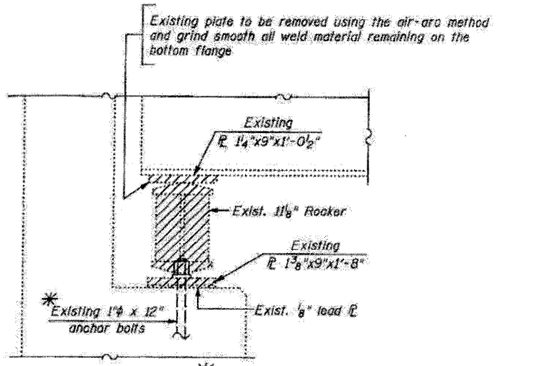
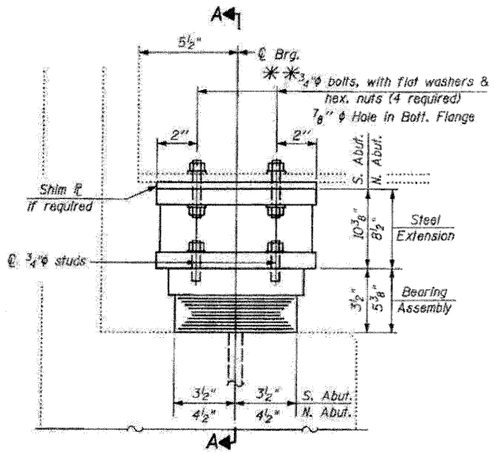


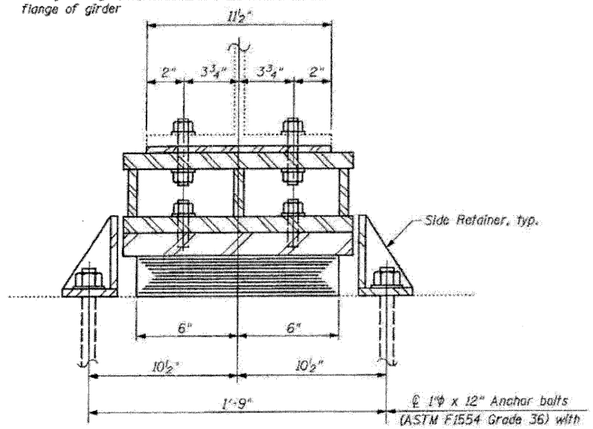
✱ Burn existing anchor bolts flush with existing concrete surface. Grind existing anchor bolts smooth and seal with epoxy. Cost included with "Jack and Remove Existing Bearings"

ELEVATION

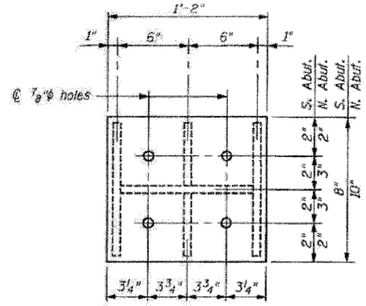


ELEVATION

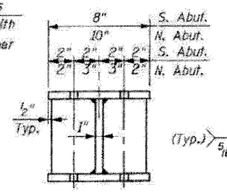
✱✱ See Sht S15 for end of beam repair which requires bolting through proposed bent plate above bottom flange of girder



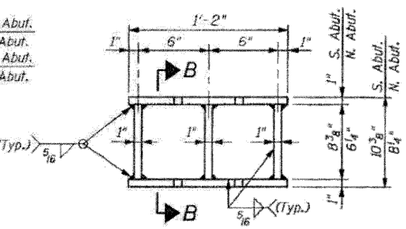
SECTION A-A



TOP & BOTTOM PLATE PLAN



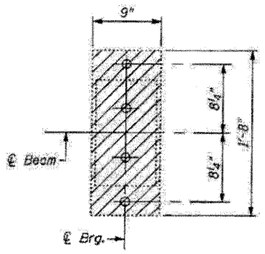
SECTION B-B



STEEL EXTENSION ELEVATION

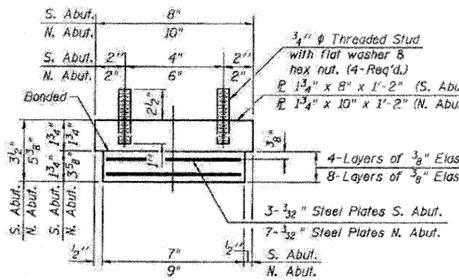
STEEL EXTENSION DETAIL
(24 required)

PROPOSED TYPE I ELASTOMERIC EXP. BRG. AT SOUTH & NORTH ABUTMENTS
(24 required)



PLAN

EXISTING BEARING REMOVAL AT SOUTH & NORTH ABUTMENTS



BEARING ASSEMBLY

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

Notes:
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts for side retainers installed in holes drilled before or after members are in place.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications. Side retainers and other steel members required for the bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.

Prior to ordering any materials, the Contractor shall verify, in the field, all bearing height and shim thickness dimensions.

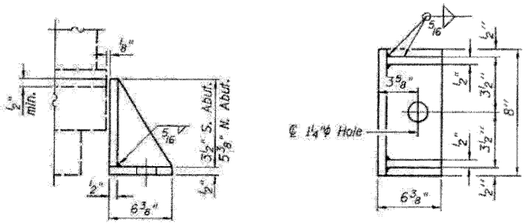
Min. jack capacity = 60 tons at each bearing location.

Steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel.

Two ⅛ in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

INTERIOR GIRDER REACTION TABLE

		South & North Abutments
R D	(k)	20.4
R L	(k)	37.5
R Imp.	(k)	10.9
R (Total)	(k)	68.8



SIDE RETAINER
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	24
Anchor Bolts, 1"	Each	48
Furnishing and Erecting Structural Steel	Pound	3,610
Jack and Remove Existing Bearings	Each	24

BEARING DETAILS
STRUCTURE NO'S. 052-0046 (SB) & 052-0047 (NB)

I-2E-1 11-1-09

FILE NAME = 052046-64E97-15-brg-asso.dgn	DESIGNED - B.N.S./J.C.N.	REVISED -	
PLOT DATE = 3/29/2010	DRAWN - D.L./F.M.	REVISED -	
PLOT SCALE = 50.0000 ' / IN.	CHECKED - B.N.S./J.C.N.	REVISED -	
	DATE - MARCH, 2010	REVISED -	

CHRISTIAN-ROGE & ASSOCIATES, INC.
ENGINEERS-PLANNERS-SURVEYORS
211 WEST WACKER DRIVE
CHICAGO, ILLINOIS 60606
PHONE: (312)372-2823 FAX: (312)372-5274

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ELASTOMERIC BEARING ASSEMBLY, TYPE I
SOUTHBOUND & NORTHBOUND STRUCTURES S.N. 052-0046
I-39 OVER B.N. R.R. S.N. 052-0047

SCALE: | SHEET NO. S15 OF S27 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(103-1, 103-2)RS	LEE	313	204
		CONTRACT NO. 64E97		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		