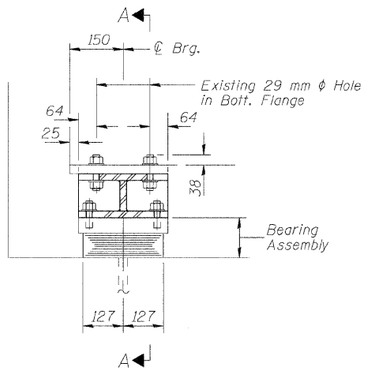
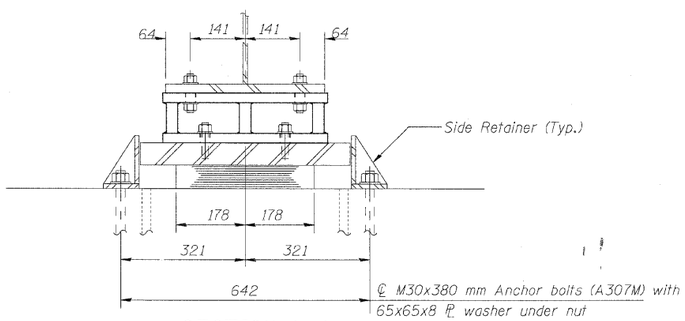
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

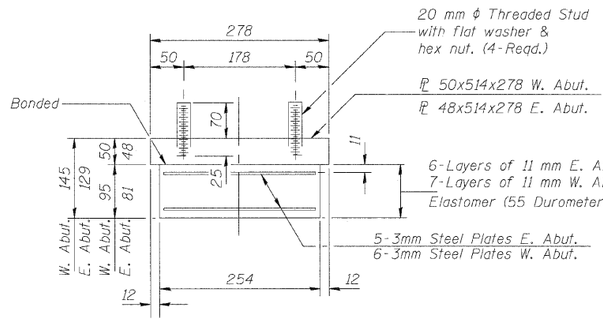


ELEVATION AT ABUT.



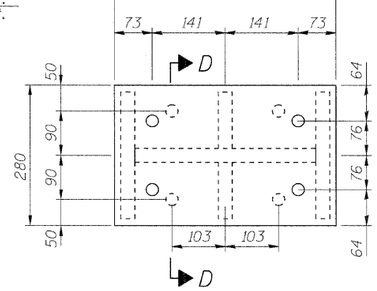
SECTION A-A

TYPE I ELASTOMERIC EXP. BRG.

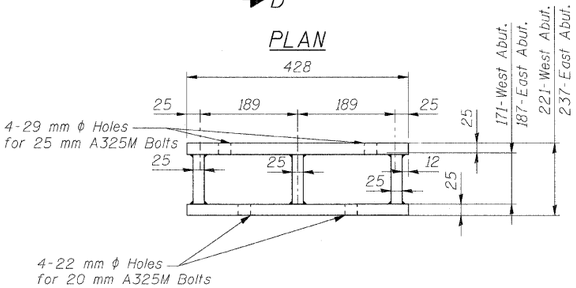


BEARING ASSEMBLY

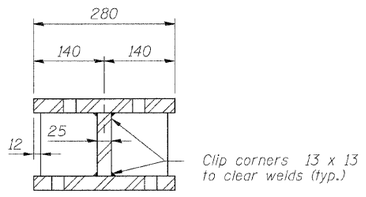
Note: Shim plates shall not be placed under Bearing Assembly.



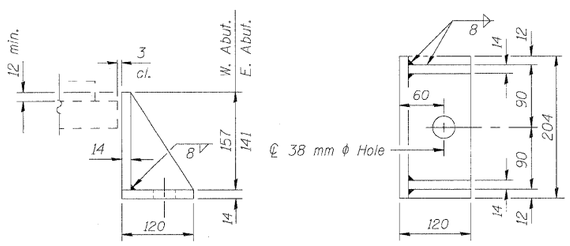
PLAN



ELEVATION



SECTION D-D

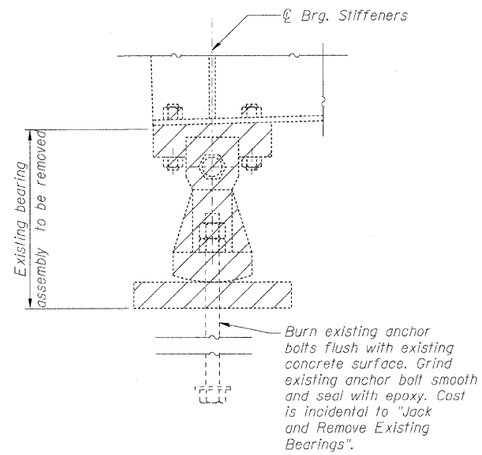


SIDE RETAINER

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

NOTES:

The overall depth dimension for the new bearing steel extension shall match the total depth of the replaced existing bearings. The contractor shall field verify depth dimensions for all bearings and existing holes in bottom flanges.
Anchor bolts shall be ASTM F1554M all-thread (or an Engineer-approved alternate material). ASTM A307M Grade C anchor bolts may be used in lieu of ASTM F1554M Grade 750. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554M.
Anchor bolts for side retainers may be 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.
Weight of steel extensions included with Furnishing and Erecting Structural Steel.



EXISTING BEARING REMOVAL DETAIL

JACKING AND CRIBBING NOTES:

1. The work shall be done in accordance with the special provision "Jack and Remove Existing Bearings".
2. The Contractor shall submit for approval by the Engineer, plans for jacking prior to commencing any work at the bearings.
3. The maximum reaction per bearing is 60 kN at the abutment. Minimum jack capacity is 120kN.
4. The new bearings shall be in place and the jacks lowered before the new concrete deck is poured.
5. A synchronous lifting system should be used to control and equalize individual jack pressures to insure that the superstructure is lifted uniformly without exceeding the above stated relative elevation differentials.
6. The diaphragms should not be used as load carrying members in the jacking and cribbing system.
7. The jack should be centered under the web and a steel plate should be placed between the top of the jack and the bottom flange of the beam. When web stiffeners bearing on the bottom flange do not exist directly over the location of the jack under a steel beam, hardwood timbers should be installed tightly between the top and bottom flange to prevent flange rotation. Steel stiffening angles should be attached to the web of the beam when the beam web thickness is not adequate to carry the jacking load. Steel plates should be placed under jacks bearing directly on the existing substructure to distribute the jacking load and prevent damage to the existing concrete.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	12
Jack and Remove Existing Bearings	Each	12
Anchor Bolts, M30	Each	24
Furnishing and Erecting Structural Steel	kg	1,040

DESIGNED -	EKM
CHECKED -	SCD
DRAWN -	RD
CHECKED -	EKM

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EXPANSION STEEL EXTENSION AT ABUTMENTS

ELASTOMERIC BEARING ASSEMBLY TYPE I
STRUCTURE NO. 016-2034

SHEET NO. S-16	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S-26 SHEETS	57	18.18.3B-R	COOK	58	40
			CONTRACT NO. 60862		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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1/16/2009
r-danley