



Top Plate to be removed Anchor Bolt Anchor Bolt w/ Nut w/ Nut - Brg. Seat Bearing Plates to FIXED **EXPANSION** be removed (top)

EXISTING BEARING DETAIL Removal of Plates and Bolts shall be included in the item Jacking Existing Superstructure

INTERIOR	GIRDER	MOMENT TABLE
		0.5 Sp. 1 & 2
Is	(in4)	1,326.8
Ic (n)	(in4)	4,198.0
Ic (3n)	(in4)	2,978.7
Ss	(in 3)	126.4
Sc (n)	(in ³)	206.6
Sc (3n)	(in ³)	182.6
P	(K/ft.)	0.438
MQ	(K/ft.)	93.6
s@	(K/ft.)	0.019
Ms₽	(K/ft.)	4.1
M4	(K/ft.)	139.9
M (Imp)	(K/ft.)	42.0
53[M &+ M(Imp)](K/ft.)	300.2
Ма	(K/ft.)	<i>521.1</i>
Mu	(K/ft.)	873.1
fs@ non-cor		8. 9
fs@(comp)		0.3
fs53(4+Imp		17.6
fs (Overload	1) (k.s.i.)	26.8
VR	(K)	21.4

INTERIOR GIRDER REACTION TABLE						
		Abt/Pier				
R(2+s2)	(K)	9.6				
R4	(K)	<i>1</i> 6.5				
Imp.	(K)	5.0				
R (Total)	(K)	.31.1				

Is and Ss are the moment of inertia and section modulus of the steel section used in computing fs (Total & Overload).

Icm and Scm are the moment of inertia and section modulus of the composite section used in computing stresses due to Live Load.

ICGm and Sc(3n) are the moment of inertia and section modulus of the

Composite section used in computing stresses due to superimposed dead loads. VR is the maximum Live Load + Impact shear range in span.

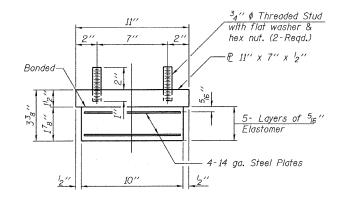
Ma (Applied Moment)=1.3[M\mathbb{?} + Ms\mathbb{?} + 5_3 (M\mathbb{!} + M_{imp})].

The Plastic Moment capacity (Mu) is computed according to AASHTO 10.48.1

and 10,50,1.1.

is the sum of the stresses due to MP + MsP + 5 ₃(M½ + M_{imp}). fs (Overload) (Non-compact section) is the sum of the stresses due to 1.3[M2 + Ms2 +53 (M + + Mimp)].

TYPE I ELASTOMERIC EXP. BRG.



BEARING ASSEMBLY

ELEVATION AT PIER

Shim plates shall not be placed under Bearing Assembly.

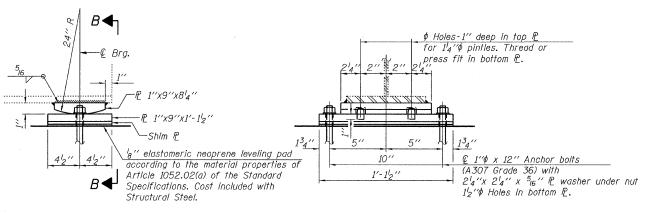
Notes:

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 at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

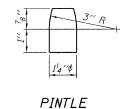
All steel members required for the bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.



ELEVATION AT ABUT.

SECTION B-B

FIXED BEARING



CIVIL & STRUCTURAL ENGINEERS LAND SURVEYORS 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 (217) 546-3400	- 1	HAMPTO	N, LENZINI & R	ENWICK, INC.
3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	1	CIVIL &	STRUCTURAL	ENGINEERS
			LAND SURVEY	ORS
	Ιþ	R	SPRINGFIELD	, ILLINOIS 62703

JACKING EXISTING SUPERSTRUCTURE Existing Beam Weight = 62 lbs/ft

Relative elevation between adjacent beams during jacking shall not be more than 8' when diaphragms are secure.

RILL OF MATERIAL

DILL OF MATERIAL				
Item	Unit	Total		
Elastomeric Bearing Assembly Type I	Each	16		
Anchor Bolts, 1''	Each	32		
Furnishing and Erecting Structural Steel	Pound	1,060		
Jacking Existing Superstructure	L. Sum	1		

BEARING DETAILS STRUCTURE NO. 005-3006

SHEET TOTAL SHEETS C.H. SECTION COUNTY NO. 3A05-00065-00-BR BROWN 24 19 CONTRACT NO. 93509 FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT ARA 1583(103)

