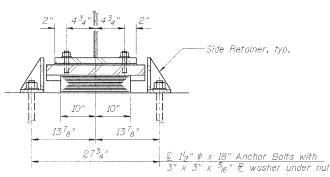
SECTION A-A

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



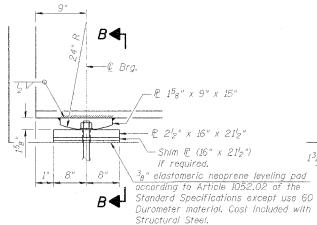
Notes:

Typ. Inside

1. Anchor Bolts at fixed bearings may be built into the masonry.

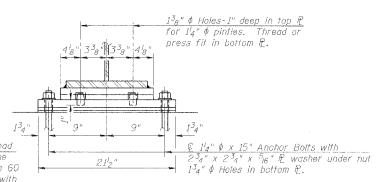
2. See Sht. 8 of 16 for Anchor Bolt installation.

≺Typ. Outside



SHEETS SMEET NO. SHEET NO. 7 F.A.P. 315 55-2 McDONOUGH 1025 507 16 SHEETS FED. ROAD DIST. NO. 4

Contract # 68205



SECTION B-B

FIXED BEARING

(Girder Bearing Stiffeners are not shown.)

ELEVATION AT EAST ABUTMENT

PINTLE

INTER	IOR GIRL	DER MOMENT	TABLE
	at cen	ter of span	
		Cooper's	Cooper's
		E80 on	E65 on
		5 Girders	4 Girders
Is	(în 4)	117.281	117,281
Ss	(in 3)	2,636	2,636
P	(K/ft.)	1.30	1.30
M₽	(K)	1,183	1,183
MŁ	('K)	1,933	3,141
M (Imp)	(′K)	797	1,161
fsl	(k.s.l.)	5.4	5.4
fs (4+1)	(k.s.i.)	12.4	19.6
fs (Total)	(k.s.i.)	17.8	25.0
VR	(K)	147.2	231.8

INTERIO	R GIF	RDER REACT	ION TABLE
		Cooper's	Cooper's
		E80 on	E65 on
		5 Girders	4 Girders
RP	(K)	55.5	55.5
R4	(K)	104.2	169.3
Imp.	(K)	43.0	62.5
R (Total)	(K)	202.7	287.3

- section modulus of the steel section used in computing fs.
- range in span.
- 3. Impact includes vertical effects and rocking effects.
- 4. Loads and stresses are based on service load conditions, ignoring composite action of ballast plate.

1. See General Note 5, Sht. 2 of 16, typical all fixed and expansion bearing steel plates and pintles.

2. See General Note 9, Sht. 2 of 16, for two-18" shim plates to be provided with all fixed and expansion bearings. See details this sheet for plan size and placement of shim

<i>Item</i>	Unit	Total
Elastomeric Bearing Assembly Type I (Special)	Each	5

BILL OF MATERIAL

MOMENT TABLES BURLINGTON NORTHERN SANTA FE RAILROAD OVER RAMP I F.A.P. ROUTE 315 SECT. 55-2 McDONOUGH COUNTY STATION 21+61.48 STRUCTURE NO. 055-9902 B.N.S.F. LINE SEGMENT 0011 B.N.S.F. BRIDGE NO. 206.13

BEARINGS, REACTION &



TYPE I ELASTOMERIC EXP. BRG.

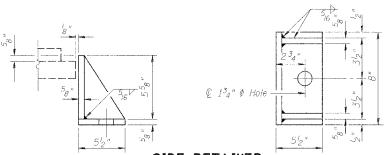
(Girder Bearing Stiffeners are not shown.)

³₄" ¢ Threaded Stud with flat washer & hex nut. (4-Regd.) P. 25" x 16" x 22" Ronded 4 Layers of ⁵8' Elastomer (60 Durometer) 3- 3_{I6}" Steel Plates 1½", See Keeper Bar Detail this Sht. 1½", See Keeper

BEARING ASSEMBLY

ELEVATION AT WEST ABUTMENT

- 1. Shim plates shall not be placed under Bearing Assembly.
- 2. Field glue bearing pad to the concrete seat per B.N.S.F. requirements. See Special Provisions.
- 3. See Special Provisions: Note 60 Durometer Elastomer.



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. Weight included with Structural Steel.

DESIGNED	PJL
CHECKED	WOI
CHLOKED	
DRAWN	MGM
CHECKED	PJL

34" x 34" x 22" keeper bars at front and rear ends of bearing. KEEPER BAR DETAIL

Notes:

1. Is and Ss are the gross moment of inertia and

2. VR is the maximum Live Load + Impact shear

5. Effects of Live Load and Impact eccentricity are included in distribution of load to girders.