

SIDE BETAINER

			$\overline{21}$	<u> </u>		(<i>L I</i>	Α.	<i>∐\</i> V⊏.	π		
	Ε	quiv	alent	ro	lle	d an	gle	with	sti	iffene.	rs
V	vill	bе	allow	ed	in	lieu	of	weld	ed	plates	S.

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	9
Elastomeric Bearing Assembly, Type II	Each	9
Anchor Bolts, 1" Ø	Each	18

Tran Systems

USER NAME = BAWitort	DESIGNED	JRM	REVISED 🛕 12/18/2013 JRM/WJ
	CHECKED	WJC	REVISED
PLOT SCALE = 0:2.0000 ':" / in.	DRAWN	MTS	REVISED
PLOT DATE = 12/19/2013	CHECKED	WJC	REVISED

Equivalent rolled angle with stiffeners

will be allowed in lieu of welded plates,

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

 $D=\frac{1}{8}$ " per each 100' of expansion for every 15° temp.

change from the normal temp. of 50°F.

ABUTN	/IENT	ВЕ	ARI	NG	DETAILS	
STR	UCTU	IRE	NO.	. 016	5–1708	
CHEET		7.0	0.5		CHEETC	

7₈" ∮ Holes in

Assembly

* Does not include

(at North Abutment)

5 - Layers of 9₁₆'

- 3₁₆" Steel Plates

Elastomer

P 234" x 1'-1" x 1'-112"

shim plates.

and shim P

′m ¼/-

Notes:

surfaces.

2'-4"

SECTION B-B

in lieu of ASTM F1554.

after members are in place.

as shown on bearing details.

shall be placed after bolts are installed.

to Article 521.06 of the Standard Specifications.

cost of Elastomeric Bearing Assembly, Type I or Elastomeric Bearing Assembly, Type II.

typ.

bottom flange

*

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
2090	2013-011R	COOK	356	168			
		CONTRACT	NO.	60W29			
ILLINOIS EED AID PROJECT							

Concrete diaphragm

Side Retainer, typ.

Ç1" Ø x 12" Anchor bolts

 2^{l_4} " x 2^{l_4} " x $^{5}_{16}$ " P_{2} washer

(F1554 Grade 36) with

under nut.

 \not 2 - 3 4" ϕ H.S. Bolts w/lock washers (Typ. ea. side)

Tapped holes in top P; $^{7}8$ " ϕ holes in bearing P

Anchor bolts shall be ASTM F1554 all-thread (or an

and diameter(s) specified. The corresponding specified

be cast in place or installed in holes drilled before or

Anchor bolts for Type II bearings shall be placed in

bearing plate after members are in place. Side retainers

Side retainers and other steel members required for

the elastomeric bearing assembly shall be included in the

The 18" PTFE sheet shall be bonded directly to the

top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the

Federal Specification MMM-A-134, Type I. The bond

agent shall be applied on the full area of the contact

Bonding of 18" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

Two |8" adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed

All (embedded and separate) bearing plates, side retainers, anchor bolts, nuts and washers shall be galvanized according to ASTM M111 or M232 as applicable.

Drilled and set anchor bolts shall be installed according

holes drilled in the concrete through holes in the bottom

Anchor bolts for side retainers for Type I bearings may

Engineer-approved alternate material) of the grade(s)

grade of AASHTO M314 anchor bolts may be used

(Coat bolts with anti-seize compound)