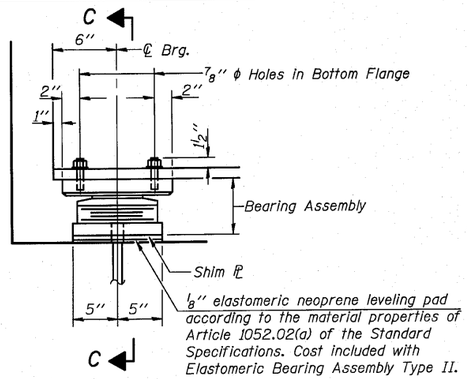
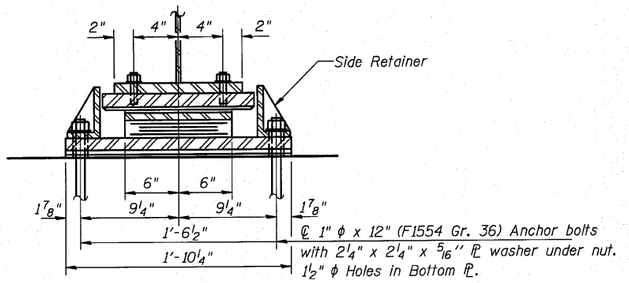
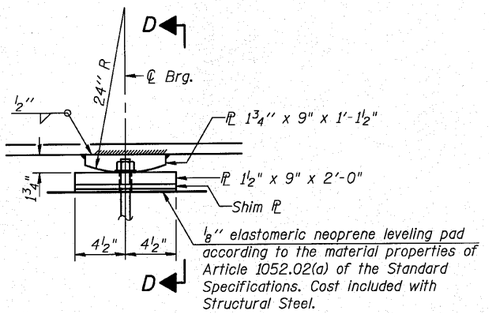


ELEVATION AT S. ABUT.

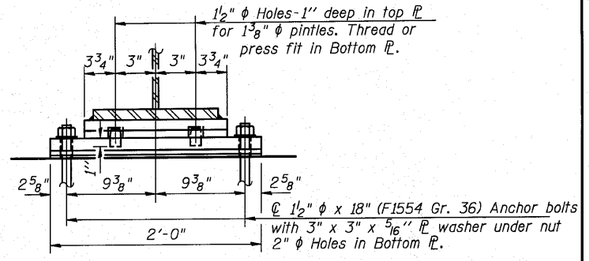


SECTION C-C

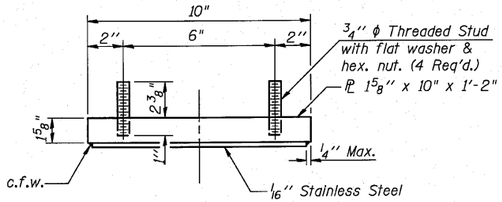
TYPE II ELASTOMERIC EXP. BRG.



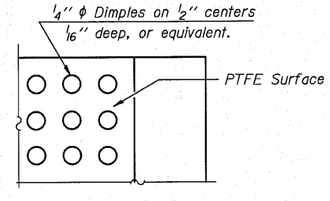
ELEVATION AT PIER 1



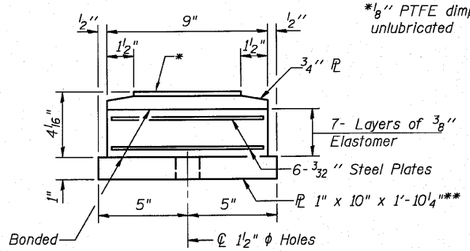
SECTION D-D



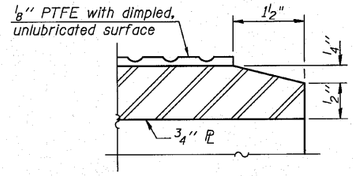
TOP BEARING ASSEMBLY



PLAN-PTFE SURFACE

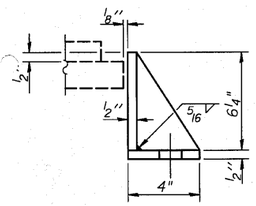


BOTTOM BEARING ASSEMBLY



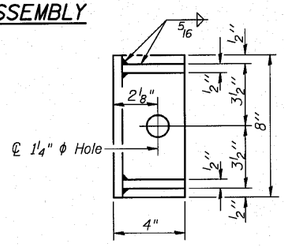
SECTION THRU PTFE

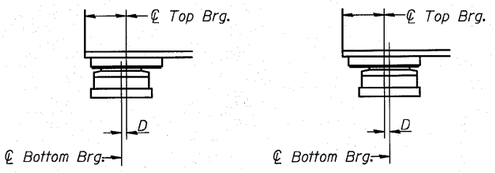
**Clip Southeast corner of all plates 3/4" x 3/4", see detail.



SIDE RETAINER S. ABUT.

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

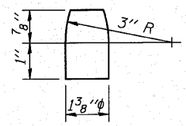




SETTING ANCHOR BOLTS AT EXP. BRG.

D=1/8" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

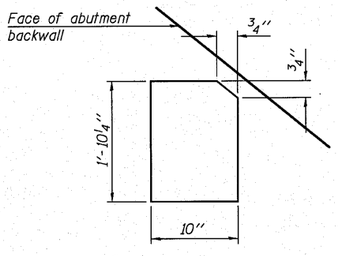
FIXED BEARING



PINTLE

SHIM PLATE SCHEDULE

Structure	Location	Beam No.	Thickness	Size
NB	N Abut	6	5/8"	8"x1'-2"
NB	Pier 1	6	3/4"	9"x2'-0"
NB	Pier 2	4	1/8"	1'-2"x1'-10"
NB	Pier 2	5	3/4"	1'-2"x1'-10"
NB	S Abut	4	1/4"	10"x1'-10 1/4"
SB	N Abut	16	1/4"	8"x1'-2"
SB	N Abut	17	5/8"	8"x1'-2"
SB	Pier 1	16	1/2"	9"x2'-0"
SB	Pier 2	17	1/8"	1'-2"x1'-10"
SB	S Abut	16	1/8"	10"x1'-10 1/4"



S. ABUT. BOTTOM PLATE DETAIL

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.

Anchor bolts for Type II bearings shall be placed in holes drilled in the concrete through holes in the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed.

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 II.

The 1/8" 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 surfaces.

Bonding of 1/8" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade 50.

Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing plans.

TWO STRUCTURES BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type II	Each	20
Anchor Bolts, 1" ϕ	Each	40
Anchor Bolts, 1 1/2" ϕ	Each	40

BEARING DETAILS
STRUCTURE NO. 028-0081 (SB)
STRUCTURE NO. 028-0082 (NB)

COOMBE-BLOXDORF P.C.
Engineers / Land Surveyors
Springfield, Illinois
Design Firm License No. 184-002703

PROJECT NO. 07062
DATE 11/12/08
DESIGN BY CME/CB
DRAWN BY TFG
CHECKED BY CME/MCB

SHEET NO. 28
43 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(28-3-1)VB-1	FRANKLIN	98	52
		CONTRACT NO. 78068		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		