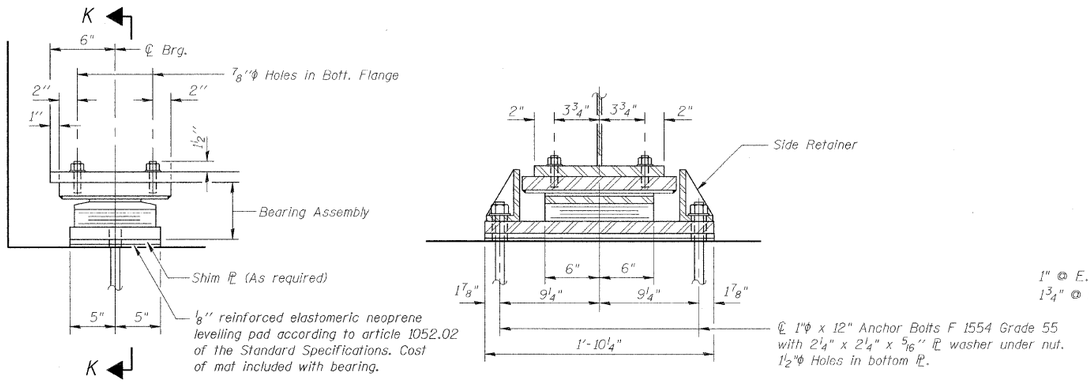
| ROUTE No. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| F.A.P. 331 | (8X-1)B | SALINE CO. | 220 | 131 |
| STA. | TO STA. | | | |
| F.H.W.A. REGION | ILLINOIS | PROJECT | | |

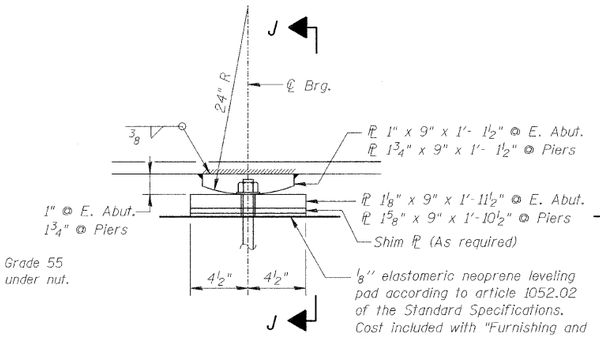
Contract # 78058




ELEVATION AT W. ABUT.

SECTION K-K

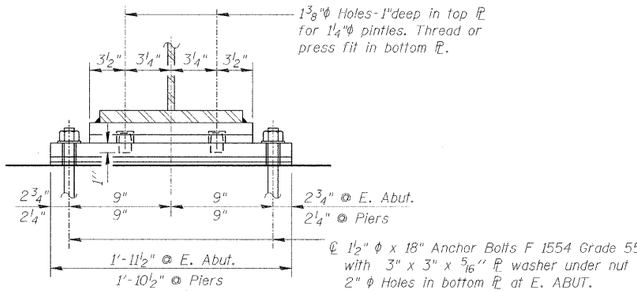
TYPE II ELASTOMERIC EXP. BRG.



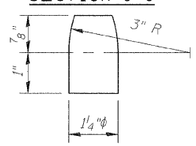

ELEVATION

FIXED BEARING

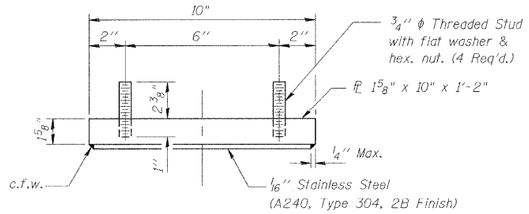
(At Piers & E. Abut.)
Cost of Fixed Bearings included with "Furnishing and Erecting Structural Steel".



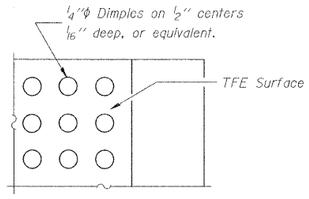

SECTION J-J



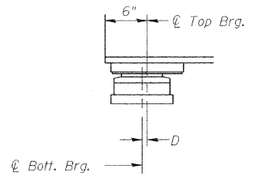

PINTLE




TOP BEARING ASSEMBLY

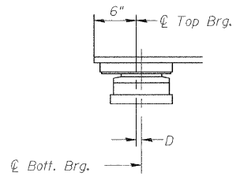



PLAN-TFE SURFACE




BELOW 50°F.

(Move bott. brg. away from fixed brg.)




ABOVE 50°F.

(Move bott. brg. toward fixed brg.)

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.

BILL OF MATERIAL

| Pay Item | Unit | Total |
|---|---|---|
| Elastomeric Bearing Assembly Type II | Each | 12 |
| Anchor Bolts 1" Dia. | Each | 24 |
| Anchor Bolts 1 1/4" Dia. | Each | 48 |
| Anchor Bolts 1 1/2" Dia. | Each | 24 |

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.

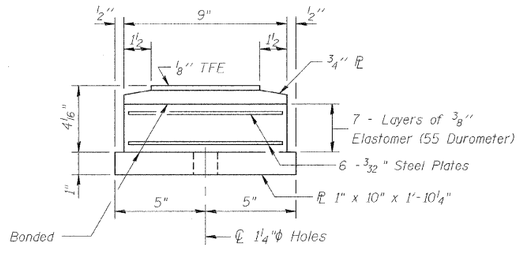
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Side retainers and other steel members required for the bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type II.

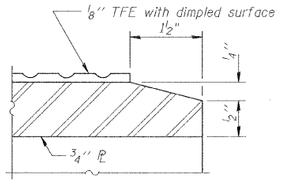
The 1/8" PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

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.

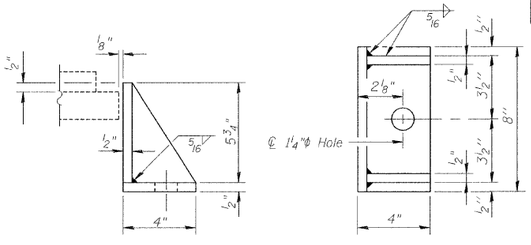
The structural steel plates of the Bearing Assemblies Pintles and retainers shall conform to the requirements of AASHTO M270 Grade 50.




BOTTOM BEARING ASSEMBLY




SECTION THRU TFE




SIDE RETAINER

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

| | |
|---|---|
| DESIGNED | EJB |
| CHECKED | WJZ |
| DRAWN | LM |
| CHECKED | WJZ |

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

benesch
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205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450
JOB NO. 3526

ILLINOIS DEPARTMENT OF TRANSPORTATION
RELOCATED ILLINOIS ROUTE 13 OVER HARRISBURG DITCH
F.A.P. 331 SECTION (8X-1)B

BEARING DETAILS

SN: 083-0060
SALINE CO., IL.

STA. 1013+38.50
DATE: FEB 4, 2009