





## TOP BEARING PLATE AND PISTON PLAN

## © Bott. Brg. BELOW 50°F. C Top Brg. © Bott. Brg. ABOVE 50°F.

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='a'' per each 100' of expansion for every 15° temp.

 $D=^{l}g^{\prime\prime}$  per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

## <u>NOTES</u>

- The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M270, Grade 50.
- Cost of top and bottom bearing assembly plates, 'g" Elastomeric Neoprene, shim plates and threaded studs with washer shall be included with "High Load Multi-Rotation, Guided Expansion 350k".
- Anchor bolts shall be ASTM F1554 all-thread (or an Engineer approved alternative material) of the grade and diameter specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36 ksi)
- 4. Anchor bolts may be cast in place or installed in holes drilled after members are in place. Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
- 5. Two  $l_{\rm B}$ " adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown in bearing details.
- 6. The bearing assembly shall be capable of transmitting 20% of the vertical design load as a horizontal force in the direction normal to the guide bars.

| 4                          |                             |                |           |   |
|----------------------------|-----------------------------|----------------|-----------|---|
| FILE NAME =                | USER NAME = dwozniarski     | DESIGNED - ACB | REVISED - | Г |
| D264B80-sht-brgp:er2&3.dgn |                             | CHECKED - JMB  | REVISED - | 1 |
|                            | PLOT SCALE = 1.00000 '/ IN. | DRAWN - RLK    | REVISED - | ĺ |
|                            | PLOT DATE = 7/18/2011       | CHECKED - ACB  | REVISED - |   |

BOTTOM BEARING PLATE AND BASE CYLINDER PLAN

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| BEARING<br>S | DET.  |     |    |    |     | -    | -  | , 6 | <b>&amp;</b> | 7 |  |
|--------------|-------|-----|----|----|-----|------|----|-----|--------------|---|--|
|              | SHEET | NO. | 64 | OF | 103 | SHEE | TS |     |              |   |  |

| <br>           |         |          |         |                     |       |              |
|----------------|---------|----------|---------|---------------------|-------|--------------|
| F.A.P.<br>RTE. | SECTION |          |         | COUNTY TOTAL SHEETS |       | SHEET<br>NO. |
| 646            |         |          |         | WHITESIDE 257       |       | 167          |
|                |         |          |         | CONTRACT            | NO. 6 | 4B80         |
|                |         | ILLINOIS | FED. Al | ID PROJECT          |       |              |

BILL OF MATERIAL

Total

50

200

Each

Each

Item

High Load Multi-Rotation

Bearings, Guided

Expansion 350k

Anchor Bolts 1"