



**BEARING LAYOUT**  
NOT TO SCALE

ABUTMENT #1 (VERTICAL LOADS)		
BEARING NO.	*UNFACTORED DEAD LOAD	*UNFACTORED LIVE LOAD
1	168 KIPS	224 KIPS
2	104 KIPS	156 KIPS
3	70 KIPS	129 KIPS
4	53 KIPS	118 KIPS
5	63 KIPS	93 KIPS

  

ABUTMENT #2 (VERTICAL LOADS)		
BEARING NO.	*UNFACTORED DEAD LOAD	*UNFACTORED LIVE LOAD
6	130 KIPS	186 KIPS
7	123 KIPS	175 KIPS
8	75 KIPS	130 KIPS
9	70 KIPS	127 KIPS
10	38 KIPS	78 KIPS

**BEARING NOTES**

- BEARINGS SHALL CONFORM TO APPLICABLE SUBSECTIONS OF SECTIONS 531 & 731.
- BEARINGS SHALL BE PAID FOR UNDER ITEM 531.15 "BEARING DEVICE ASSEMBLY, HIGH LOAD MULTI-ROTATIONAL".
- FABRICATION DRAWINGS CONFORMING TO SUBSECTION 531.03 SHALL BE SUBMITTED.
- THE CONCRETE SURFACE UNDER THE BEARING DEVICES SHALL BE LEVEL.
- DESIGN CRITERIA:
  - BASE PLATE TO CONCRETE DESIGN PRESSURE = 1.20 ksi MAXIMUM.
  - MINIMUM DESIGN ROTATION = 0.030 radians
  - MINIMUM DESIGN TRANSLATION: TRANSVERSE = 1" LONGITUDINAL = 2"
  - HORIZONTAL CAPACITY SHALL BE A MINIMUM OF 25% OF THE VERTICAL LOAD.
  - VERTICAL DESIGN LOAD PER TABLE ON THIS SHEET.
- ALL POTS, PLATES, NUTS, WASHERS AND ANCHOR BOLTS, UNLESS OTHERWISE NOTED, SHALL BE GALVANIZED OR METALIZED AS PER SUBSECTIONS 531.04 (B) AND 506.14 OF THE STANDARD SPECIFICATIONS. IF THE BEARINGS ARE METALIZED, THEY SHALL BE SEALED WITH AN APPROVED SEALER AS SPECIFIED IN SUBSECTION 531.04 (B) OF THE STANDARD SPECIFICATIONS. AREAS OF GALVANIZING OR METALIZING DAMAGED BY FIELD WELDING OR HANDLING SHALL BE REPAIRED IN CONFORMANCE WITH SUBSECTION 726.08. THE INSIDE OF THE POTS SHALL NOT BE GALVANIZED OR METALIZED.
- ALL STEEL IN BEARING DEVICES SHALL BE AASHTO M270M/M270 GRADE 345, UNLESS NOTED OTHERWISE.
- ANCHOR BOLTS SHALL HAVE A MINIMUM OF 15" EMBEDMENT INTO THE CONCRETE AND SHALL CONFORM TO SUBSECTION 714.08.
- THE CONNECTION BETWEEN THE POT BEARING AND SOLE PLATE AND POT BEARING AND THE MASONRY PLATE SHALL BE DESIGNED AND DETAILED BY THE SUPPLIER.
- ALL DESIGNS DONE FOR THE BEARINGS SHALL BE PER THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 5TH EDITION AND ITS LATEST REVISIONS.
- ALTERNATE CONFIGURATIONS FOR BEARINGS MAY BE SUBMITTED FOR APPROVAL. ANY ALTERNATE SUBMITTED SHALL BE DESIGNED AND CERTIFIED TO MEET THE DESIGN LOADS AND CRITERIA SHOWN ON THE PLANS.
- ALL BEARINGS SHALL BE MARKED PRIOR TO SHIPPING. THE MARKS SHALL INCLUDE THE BEARING LOCATION ON THE BRIDGE AND A DIRECTION ARROW THAT POINTS UP-STATION. ALL MARKS SHALL BE PERMANENT AND BE VISIBLE AFTER THE BEARING IS INSTALLED.

PROJECT NAME:	ROYALTON
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FILE NAME:	BR 28\86e055brg_28.dgn
PROJECT LEADER:	C. CARLSON
DESIGNED BY:	D. PETERSON
BRIDGE 28 BEARING NOTES	
PLOT DATE:	08-OCT-2013
DRAWN BY:	DZENAN K.
CHECKED BY:	D.PETERSON
SHEET	116 OF 186