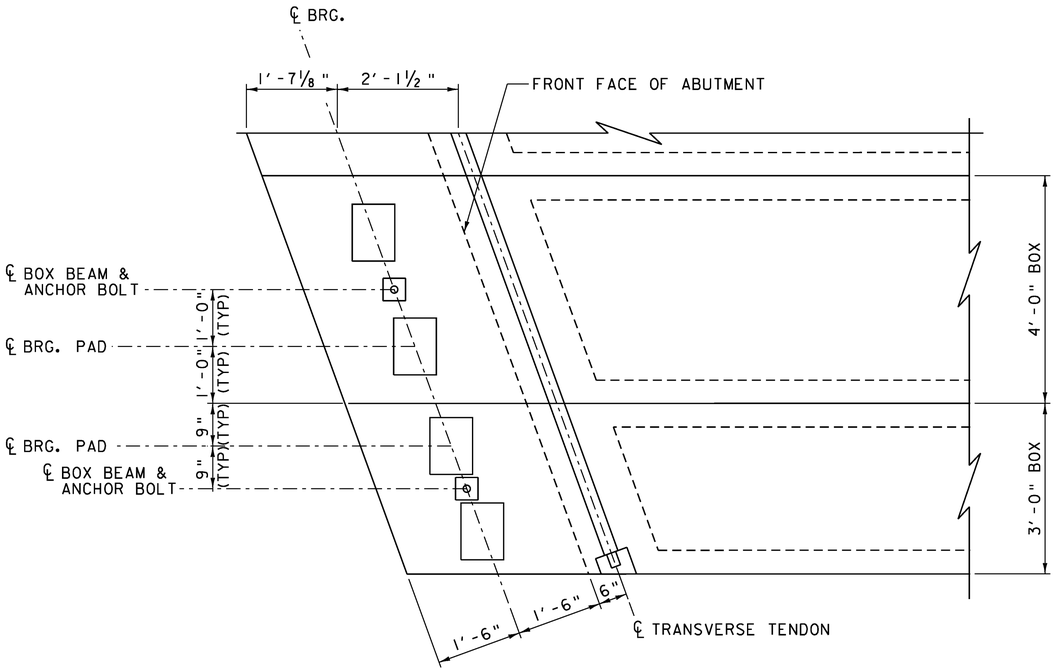
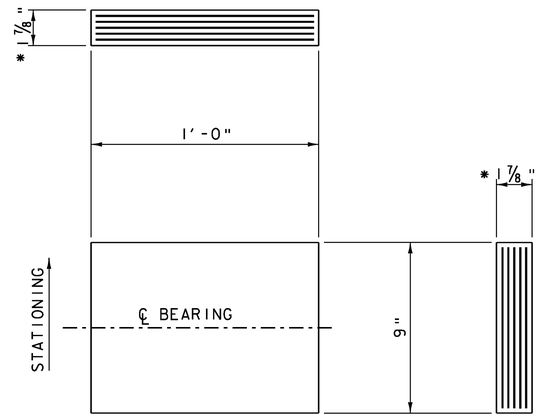


NOTE: CURB NOT SHOWN FOR CLARITY

BEARING PLACEMENT PLAN

SCALE ¾" = 1'-0"



ELASTOMERIC BEARING DETAIL

SCALE 3" = 1'-0"

* 2 - ¼" EXTERIOR LAYERS OF ELASTOMER
  2 - ½" INTERIOR LAYERS OF ELASTOMER
  3 - ⅛" STEEL REINFORCING PLATES

ELASTOMERIC BEARING NOTES:

1. BEARINGS SHALL CONFORM TO THE APPLICABLE SUBSECTIONS OF SECTIONS 531 AND 731.
2. THE BEARINGS, INCLUDING ANCHOR BOLTS, DRILLING AND GROUTING, WASHERS AND NUTS SHALL BE PAID FOR UNDER THE ITEM 531.17 "BEARING DEVICE ASSEMBLY, STEEL REINFORCED ELASTOMER PAD."
3. ALL PLATES, NUTS, WASHERS AND ANCHOR BOLTS SHALL BE GALVANIZED OR METALIZED AS PER SUBSECTIONS 726.08 AND 726.09. AREAS OF GALVANIZING OR METALIZING DAMAGED BY FIELD WELDING OR HANDLING SHALL BE REPAIRED IN CONFORMANCE WITH SUBSECTIONS 726.08 AND 726.09.
4. ALL WASHERS SHALL BE ½" PLATE (MINIMUM). PAYMENT FOR DRILLING AND GROUTING OF ANCHOR BOLTS SHALL BE INCLUDED IN THE BID PRICE FOR CONTRACT ITM 531.17, "BEARING DEVICE ASSEMBLY, STEEL REINFORCED ELASTOMERIC PAD".
5. ALL REINFORCEMENT BETWEEN LAYERS OF ELASTOMER SHALL BE STEEL, MEETING THE REQUIREMENTS OF SUBSECTION 714.02. ALL INTERNAL STEEL PLATES SHALL BE SAND BLASTED AND FREE OF COATINGS, RUST AND MILL SCALE. THE PLATES SHALL BE FREE OF SHARP EDGES AND BURRS.
6. ANCHOR BOLTS SHALL BE ASTM F1554, GRADE 105 AND MEET THE REQUIREMENTS OF SUBSECTION 714.08.
7. STEEL REINFORCED ELASTOMERIC BEARINGS SHALL HAVE A MINIMUM ¼" EDGE SEAL OF ELASTOMER INTEGRAL WITH BEARING OVER ALL INTERNAL PLATES.
8. THE CONCRETE UNDER THE BEARING DEVICE SHALL BE LEVEL IN THE LONGITUDINAL DIRECTION.
9. ALL DESIGNS DONE FOR THE BEARINGS SHALL BE PER THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 6TH EDITION AND ITS LATEST REVISIONS.
10. ALTERNATIVE 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.
11. 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.
12. BRIDGE SEAT ELEVATIONS MAY BE REVISED TO ACCOMMODATE AN ALTERNATIVE CONFIGURATION.
13. ALL MATERIALS AND FABRICATION SHALL BE PER AASHTO LRFD SECTION 14.7 AND AASHTO MATERIAL SPECIFICATION M251.

    ELASTOMER SHALL BE NEOPRENE OR NATURAL VIRGIN RUBBER.

    DESIGN CRITERIA: (AASHTO METHOD "A")

    A) TEMPERATURE RANGE: 80° F

    B) 50 DUROMETER ELASTOMETER, LOW TEMPERATURE ZONE D, GRADE 4
    G = 100 PSI +/- 15%

    C) MAXIMUM BEARING STRESS: 419 PSI

    D) DESIGN ROTATION: 0.018 RAD.

    E) MAX. REACTION/BEARING:
    DEAD LOAD: 20.3 KIPS
    LIVE LOAD: 22.9 KIPS (WITH IMPACT)
14. THE CONTRACTOR IS ADVISED TO HAVE A MINIMUM OF 20 - ¼"x10"x1'-1" GALVANIZED STEEL SHIMS AVAILABLE FOR USE FOR ELEVATION ADJUSTMENTS UPON THE SETTING OF THE SUPERSTRUCTURE UNITS. THE SHIMS SHALL BE FABRICATED ACCORDING TO SECTION 531 AND SHALL BE INCLUDED UNDER ITEM 531.17, "BEARING DEVICE ASSEMBLY, STEEL REINFORCED ELASTOMERIC PAD".

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: GUILFORD
PROJECT NUMBER: BRO 1442(36)

FILE NAME: z10j064deck.dgn
PROJECT LEADER: S.E. BURBANK
DESIGNED BY: G.H. NEAL
BEARING DETAILS

PLOT DATE: 10/2/2013
DRAWN BY: J.L. LEMIEUX
CHECKED BY: A.F. PREZIOSO
SHEET 23 OF 42