



FRONT VIEW
 FIXED BEARING DETAILS AT PIER
 SCALE 1 1/2" = 1'-0"
 1 9 6 3 0 1

BEARING NOTES:

1. BEARINGS SHALL CONFORM TO APPLICABLE SUBSECTIONS OF SECTION 531 AND 731.
2. BEARINGS SHALL BE PAID FOR UNDER THE ITEM 531.10 "BEARING DEVICE ASSEMBLY".
3. SHOP DRAWINGS CONFORMING TO SUBSECTION 513.03 SHALL BE SUBMITTED TO INCLUDE WELDING AND BONDING PROCEDURES.
4. THE CONCRETE SURFACE UNDER THE BEARING DEVICE SHALL BE LEVEL.
5. "A" DISTANCE IS THE FINAL SETTING FOR THE BEARING PAD AFTER THE CONCRETE SLAB, CURB, PAVEMENT, AND BRIDGE RAIL ARE PLACED. "B" DISTANCE IS LISTED FOR SETTING THE BEARING AFTER THE STRUCTURAL STEEL IS ERECTED AND BEFORE THE CONCRETE DECK IS PLACED. THE DIFFERENCE IS THE THEORETICAL ELONGATION OF THE BOTTOM FLANGE DUE TO DEAD LOAD DEFLECTION. THE FINAL "A" DISTANCE, AS SHOWN IN THE TABLE, MUST BE ATTAINED WITHIN 1/8".
6. DESIGN CRITERIA:
 - A. BASE PLATE TO CONCRETE DESIGN PRESSURE = 1000 P.S.I. MAXIMUM.
 - B. MAXIMUM ALLOWABLE DESIGN ROTATION = 0.020 RADIAN.
 - C. HORIZONTAL CAPACITY SHALL BE A MINIMUM OF 10% OF THE VERTICAL LOAD.
 - D. DESIGN LOAD PER BEARING AT ABUTMENT NO. 1 - 94 KIPS.
 DESIGN LOAD PER BEARING AT PIER - 160 KIPS.
 DESIGN LOAD PER BEARING AT ABUTMENT NO. 2 - 97 KIPS.
7. ALL STEEL IN BEARING DEVICES (EXCEPT STAINLESS STEEL) SHALL BE AASHTO M-270, (ASTM A-709) GRADE 36.
8. ANCHOR BOLTS SHALL HAVE A MINIMUM OF 15" EMBEDMENT INTO THE CONCRETE AND SHALL CONFORM TO SUBSECTION 714.08 IN THE "VERMONT SPECIFICATIONS". ANCHOR BOLTS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-183 (ASTM A-36).
9. BEARING DEVICES SHALL BE GALVANIZED OR METALIZED AS PER SUBSECTIONS 531.04(b) AND 506.15(a) AND (b) AS MODIFIED BY THE GENERAL SPECIAL PROVISIONS FOR ALL PROJECTS. AREAS OF DAMAGED GALVANIZING SHALL BE COATED IN ACCORDANCE WITH ASTM A 760/A 760M AND A 780. AREAS OF DAMAGED METALIZING SHALL BE COATED WITH THE SAME SEALANT USED BY THE BEARING SUPPLIER.
10. ALL THE ANCHOR BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED. ALL WASHERS SHALL BE 3/8" PLATE (MINIMUM). PAYMENT FOR ANCHOR BOLTS, NUTS AND WASHERS SHALL BE INCLUDED IN THE UNIT BID PRICE FOR "BEARING DEVICE ASSEMBLY".
11. EXISTING STEEL ANCHOR BOLTS OR REINFORCING TO BE TERMINATED SHALL BE REMOVED 1" BELOW THE SURFACE OF ANY EXPOSED FACE.

STATE OF VERMONT AGENCY OF TRANSPORTATION			
Town Of	NORWICH	Bridge No.	46
Highway No.	T.H. 3	Log Sta.	
		Surv. Sta.	
TOWN HIGHWAY NO. 3 OVER OMPOMPANOOSUC RIVER			
PIER BEARING DETAILS			
Designed By	S. BURBANK	Drawn By	A. THIBAUT
Checked By	Date	Bridge Design Supervisor	
M. CHENETTE	12/03	M. CHENETTE	Date 12/03
PROJECT	NORWICH	PROJECT NO.	TH2-9625
DH CAD Filename: ... \Norw-brgsplier.dgn		Plot Date: 03/31/2004	
Bridge Sheet No.		Sheet 23 of 40	

