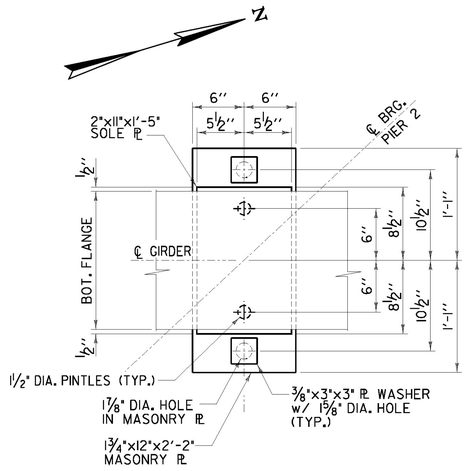
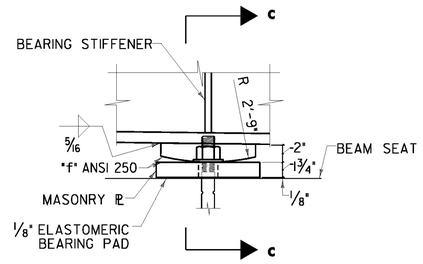
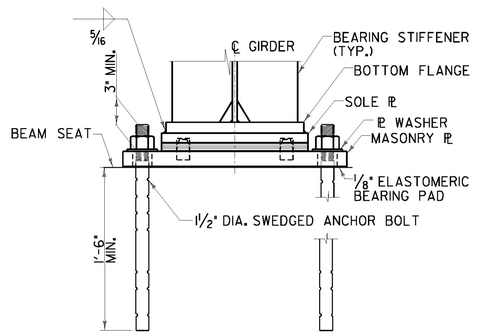


PLAN



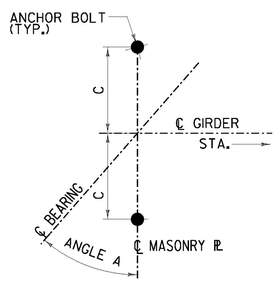
ELEVATION



SECTION C–C

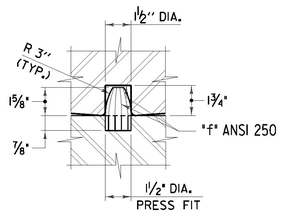
STEEL FIXED BEARINGS – PIER 2

SCALE: 1½" = 1'-0"



ANCHOR BOLT LAYOUT PLAN

NOT TO SCALE



PINTLE DETAIL

NOT TO SCALE

BEARING NOTES:

1. BEARINGS SHALL CONFORM TO APPLICABLE SUBSECTIONS OF THE STANDARD SPECIFICATION SECTIONS 531 AND 731.
2. FIXED AND EXPANSION BEARINGS SHALL BE PAID FOR UNDER THE ITEM 531.13 AND ITEM 531.11 RESPECTIVELY.
3. SHOP DRAWINGS CONFORMING TO STANDARD SPECIFICATION SUBSECTION 531.03 SHALL BE SUBMITTED TO INCLUDE WELDING AND VULCANIZING PROCEDURES.
4. THE CONCRETE SURFACE UNDER THE BEARING DEVICE SHALL BE LEVEL.
5. ELASTOMERIC BEARINGS SHALL BE VIRGIN NATURAL RUBBER, HARDNESS (SHORE "A" DUROMETER) OF 60, GRADE 3 CONFORMING TO AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES (DIVISION II) TABLE 18.4.5.1-1B.
6. STEEL REINFORCED ELASTOMERIC BEARING DESIGN METHOD = B. BEARINGS SHALL BE TESTED IN ACCORDANCE WITH THE REQUIREMENTS FOR STEEL REINFORCED ELASTOMERIC BEARINGS OF THE AASHTO STANDARD SPECIFICATIONS DIVISION II, SECTION 18.7.
7. ELASTOMERIC BEARING DESIGN CRITERIA:

   ABUTMENT 1 AND 2 BEARINGS
   A. MASONRY PLATE TO CONCRETE DESIGN PRESSURE = 1050 P.S.I. MAXIMUM.
   B. DESIGN DEAD LOAD REACTION = 145 KIPS/BEARING
   C. DESIGN LIVE LOAD REACTION = 94 KIPS/BEARING
   D. LATERAL DESIGN LOAD = 29 KIPS/BEARING

   PIER 1 AND 3 BEARINGS
   A. MASONRY PLATE TO CONCRETE DESIGN PRESSURE = 1050 P.S.I. MAXIMUM.
   B. DESIGN DEAD LOAD REACTION = 46 KIPS/BEARING
   C. DESIGN LIVE LOAD REACTION = 71 KIPS/BEARING
   D. LATERAL DESIGN LOAD = 9.2 KIPS/BEARING

8. ALL STEEL IN BEARING DEVICES SHALL BE AASHTO M-270, (ASTM A-709) GRADE 36 (MIN.).
9. ANCHOR BOLTS SHALL HAVE A MINIMUM OF 1'-6" EMBEDMENT INTO THE CONCRETE AND SHALL CONFORM TO STANDARD SPECIFICATION SUBSECTION 714.08.
10. ALL ANCHOR BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED. ALL WASHERS SHALL BE ⅜" PLATE (MINIMUM). PAYMENT FOR ANCHOR BOLTS, NUTS AND WASHERS SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE BEARINGS.
11. BEARING DEVICES SHALL BE GALVANIZED OR METALIZED AS PER STANDARD SPECIFICATION SUBSECTIONS 531.04(b) AND 506.15(a) AND (b). AREAS OF DAMAGED GALVANIZING SHALL BE COATED IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 513. AREAS OF DAMAGED METAILIZING SHALL BE COATED WITH THE SAME SEALANT USED BY THE BEARING SUPPLIER.
12. THE TEMPERATURE SETTING RANGE FOR INSTALLATION OF THE ELASTOMERIC BEARINGS WITHOUT THE NEED FOR ADJUSTMENT IS 20° TO 70°F.
13. BEARING SURFACES MARKED "f" SHALL BE FINISHED IN ACCORDANCE WITH AASHTO DIVISION II, SECTION 11.4.6.

ANCHOR BOLT LAYOUT TABLE – ANGLE A

LOCATION:	ABUT 1.	PIER 1	PIER 2	PIER 3	ABUT. 2
DIM C:	10"	11"	10½"	11"	10"
GIRDER 1	38°28'5"	41°25'59"	45°50'2"	50°37'7"	54°25'20"
GIRDER 2	38°45'53"	41°45'46"	46°13'8"	51°4'29"	54°56'47"
GIRDER 3	39°3'59"	42°5'55"	46°36'41"	51°32'29"	55°29'4"
GIRDER 4	39°22'25"	42°26'26"	47°0'44"	52°1'9"	56°2'14"
GIRDER 5	39°41'10"	42°47'20"	47°25'18"	52°30'31"	56°36'20"

Stantec

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of PUTNEY	Bridge No. 19A
Highway No. U.S. ROUTE 5	Log Sta. / Surv. Sta.
U.S. ROUTE 5 OVER I-91	
FIXED BEARING DETAILS	
Designed By T. KNIGHT	Drawn By T. KNIGHT
Checked By G. BOGUE Date 06/09	Bridge Design Supervisor G. BOGUE Date 06/09
PROJECT PUTNEY	PROJECT NO. NH F019-1(5)
CAD Drawing Name: ...\32 z93a148brgs_d#1.dgn	Date: 7/8/2009
Bridge Sheet No.	Sheet 32 of 75