€ GIRDER

F4 —

<u>FIXED</u>

11/2° MOLD DRAFT

SECTION E-E

TYPICAL SECTION OF ELASTOMERIC BEARINGS

1'-11"

E4 (76 REQ'D)

PLAN VIEW OF ELASTOMERIC BEARING

TYPE V

<u>EXPANSION</u>

 $\frac{1}{4}$ " MIN. (TYP.)

ALL AROUND

© 2%6″ X 5½″SLOTS+

( EXPANSION

( 19 REQ'D )

1/8"MIN.

—14 GA.STEEL ₽

— ¾6″STEEL ₽

₽ ``B-1'' ——

3∕<sub>16</sub>″RIB

SEE DETAIL "A"

TYPICAL EACH SIDE

OF GIRDER, FIXED OR EXPANSION END

PLATE "P"

TOP OF CAP

15" SWEDGE

(TYP.)

——2" Ø PIPE SLEEVE

SOLE PLATE WITH STANDARD WASHER

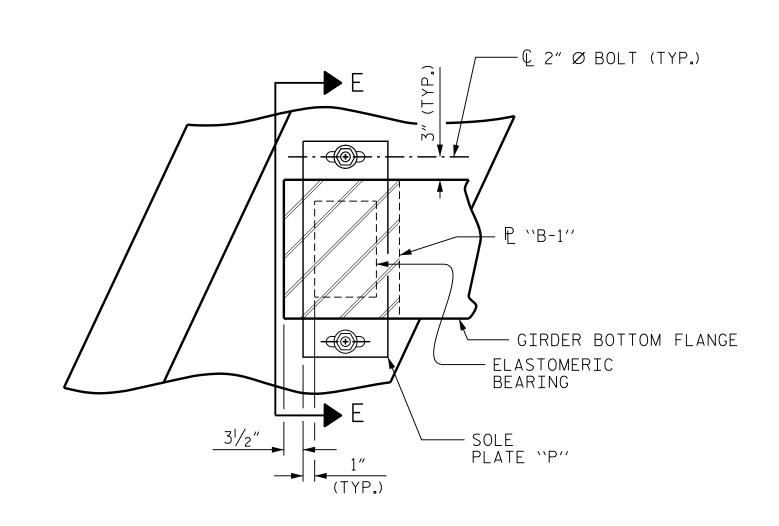
EXTENDING 1/8" ABOVE

. ⊢4" THREAD (TYP.)

 $-2'' \varnothing \times 2'-1''$ 

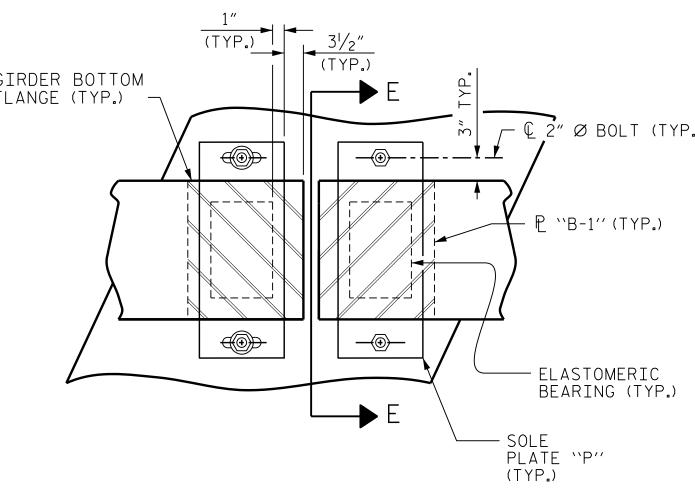
ANCHOR BOLTS

DES BY: M. NEIHEISEL DATE : 02/19 DWG BY: M. SELLS DES CHK: S.NIFONG DATE: 02/19 CHK BY: S. NIFONG



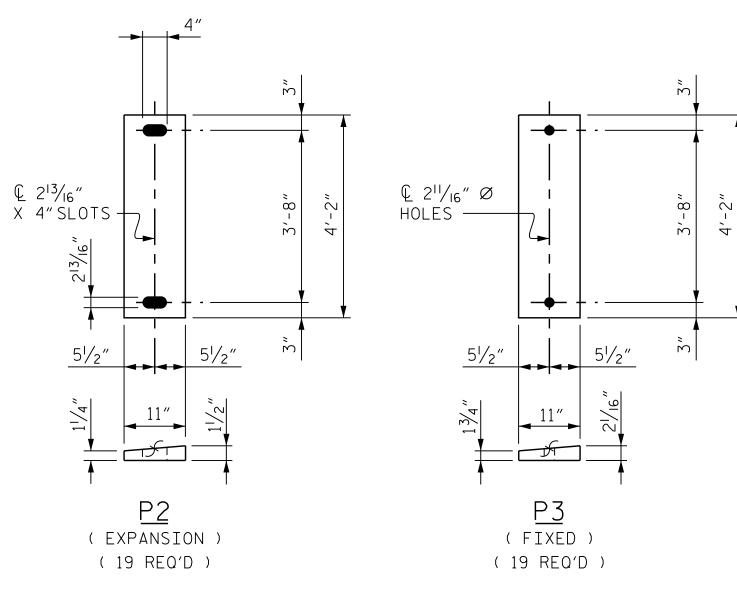
## TYPICAL PLAN AT END BENT

(END BENT 1 SHOWN, END BENT 2 SIMILAR)



## TYPICAL PLAN AT BENT

INCREASING STATIONS



DIRECTION OF INCREASING STATIONS

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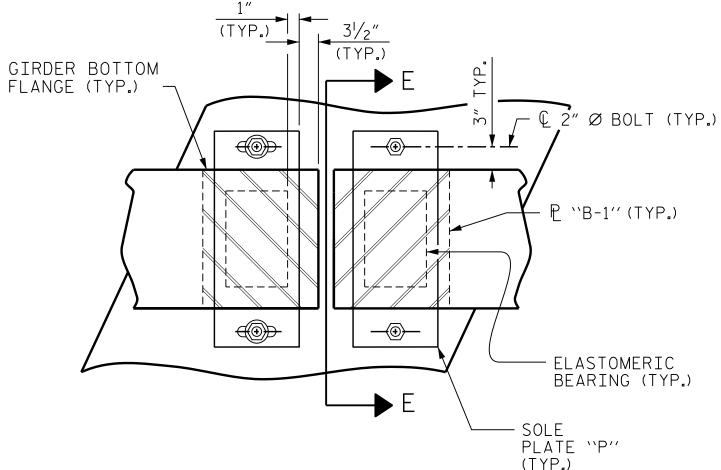
FORSYTH

STATION: 47+28.33 -Y15REV-

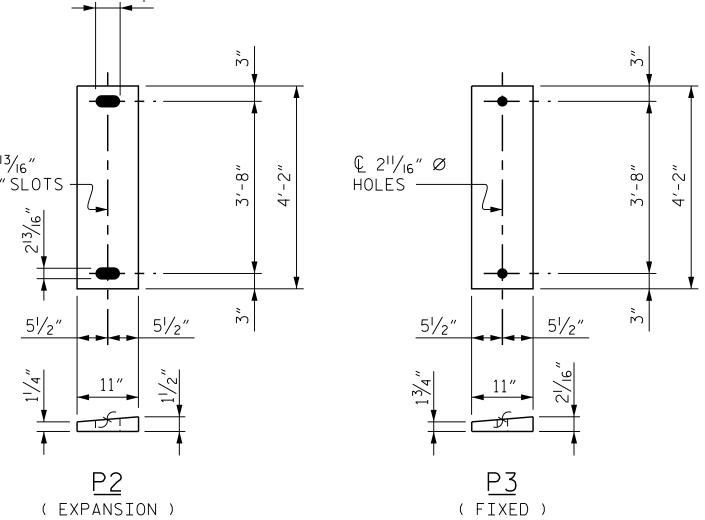
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

ELASTOMERIC BEARING DETAILS





DIRECTION OF



SOLE PLATE DETAILS ( "P")

© 2%6″ X 5½″SLOTS-

<del>- 13- 1</del>

( EXPANSION

( 19 REQ'D )

THE 2" Ø PIPE SLEEVE SHALL BE CUT FROM SCHEDULE 40

SPECIFICATIONS.

NOTES

PVC PLASTIC PIPE. THE PVC PLASTIC PIPE SHALL MEET THE REQUIREMENTS OF ASTM D1785. STEEL SOLE PLATES, ANCHOR BOLTS, NUTS, AND WASHERS

BE BURRED WITH A SHARP POINTED TOOL.

PRIOR TO WELDING, GRIND THE GALVANIZED SURFACE OF THE PORTION OF THE EMBEDDED PLATE AND SOLE PLATE THAT ARE TO BE WELDED. AFTER WELDING, DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

SHALL BE GALVANIZED IN ACCORDANCE WITH THE STANDARD

AT ALL FIXED POINTS OF SUPPORT, NUTS FOR ANCHOR BOLTS

ARE TO BE TIGHTENED FINGER TIGHT AND THEN BACKED OFF 1/2 TURN. THE THREAD OF THE NUT AND BOLT SHALL THEN

WHEN WELDING THE SOLE PLATE TO THE EMBEDDED PLATE IN THE GIRDER, USE TEMPERATURE INDICATING WAX PENS, OR OTHER SUITABLE MEANS, TO ENSURE THAT THE TEMPERATURE OF THE SOLE PLATE DOES NOT EXCEED 300°F. TEMPERATURES ABOVE THIS MAY DAMAGE THE ELASTOMER.

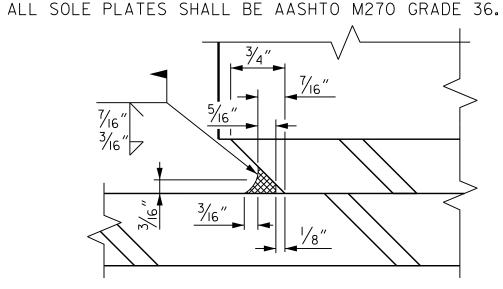
SOLE PLATE "P" BOLTS, NUTS, WASHERS, AND PIPE SLEEVE SHALL BE INCLUDED IN THE PAY ITEM FOR PRESTRESSED CONCRETE GIRDERS.

ANCHOR BOLTS SHALL MEET THE REQUIREMENTS OF ASTM A449. NUTS SHALL MEET THE REQUIREMENTS OF AASHTO M291-DH OR AASHTO M292-2H. WASHERS SHALL MEET THE REQUIREMENTS OF AASHTO M293. NO SHOP DRAWINGS ARE REQUIRED FOR ANCHOR BOLTS, NUTS AND WASHERS. SHOP INSPECTION IS REQUIRED.

ALL SURFACES OF BEARING PLATES SHALL BE SMOOTH AND STRAIGHT.

THE ELASTOMER IN THE STEEL REINFORCED BEARINGS SHALL HAVE A SHEAR MODULUS OF 0.160 KSI, IN ACCORDANCE WITH AASHTO M251.

FOR STEEL REINFORCED ELASTOMERIC BEARINGS, SEE SPECIAL PROVISIONS.



DETAIL "A"

MAXIMUM ALLOWABLE SERVICE LOADS D.L. + L.L. (NO IMPACT) TYPE V 365 K

COUNTY

SUPERSTRUCTURE

SHEET NO. SO3-28 REVISIONS NO. BY: DATE: DATE: TOTAL SHEETS 61

\_ DATE : 02/19 \_ DATE : 05/19