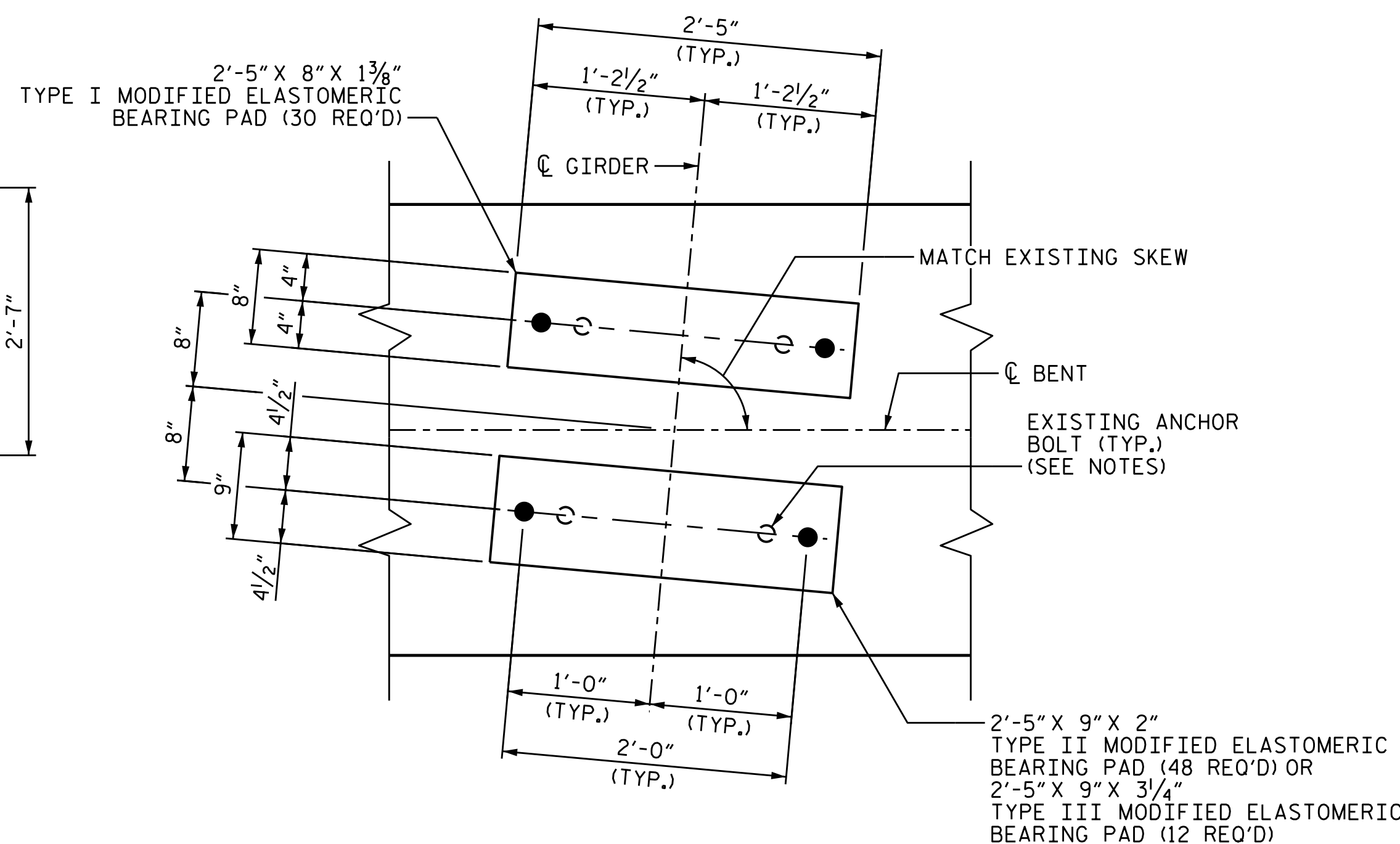


SOLE PLATE FOR TYPE I MODIFIED BEARINGS

SOLE PLATE FOR TYPE II AND III MODIFIED BEARINGS

SOLE PLATE DETAILS



BEARING REPLACEMENT PLAN

(TYP. EACH BEARING)

NOTES:

THE EXISTING METAL BEARINGS SHALL BE REMOVED AND REPLACED WITH ELASTOMERIC BEARINGS AND SOLE PLATES AS SHOWN.

LOOSEN OR REMOVE EXISTING ANCHOR BOLT NUTS AS REQUIRED TO ALLOW JACKING OF THE GIRDERS.

WITH GIRDERS IN A JACKED AND SUPPORTED CONDITION, REMOVE EXISTING METAL BEARINGS. FOR JACKING DETAILS, SEE "JACKING DETAILS" SHEET.

CUT EXISTING ANCHOR BOLTS AND GRIND THEM SMOOTH FLUSH WITH THE TOP OF THE BENT CAP.

ATTACH SOLE PLATES TO THE STEEL GIRDERS AND INSTALL THE ELASTOMERIC BEARINGS AS SHOWN.

WHEN WELDING THE SOLE PLATE TO 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.

LOWER GIRDER ONTO NEW BEARING PADS, TIGHTEN ANCHOR BOLT NUTS TO FINGER TIGHT AND THEN BACK THEM OFF 1/2 TURN.

THE CONTRACTOR SHALL DRILL OR CORE INTO THE EXISTING BENT CAP TO INSTALL ANCHOR BOLTS. THE ANCHOR BOLTS SHALL BE ADHESIVELY ANCHORED.

FOR ADHESIVELY ANCHORED ANCHOR BOLTS OR DOWELS, SEE STANDARD SPECIFICATIONS.

ADHESIVE FOR ANCHORING SHALL BE ON THE NCDOT APPROVED PRODUCTS LIST. EXISTING "S" BAR STIRRUPS MAY BE CUT TO INSTALL ANCHOR BOLTS.

THE EMBEDMENT DEPTH OF THE ANCHOR BOLT SHALL BE 12" OR THE DEPTH RECOMMENDED BY THE ADHESIVE MANUFACTURER TO ATTAIN THE PULL-OUT STRENGTH OF THE DESIGN LOAD BELOW, WHICHEVER IS GREATER. FIELD TESTING OF THE ADHESIVE BONDING SYSTEM IS NOT REQUIRED.

ANCHOR DESIGN YIELD LOAD: 20 KIPS.

FOR BRIDGE JACKING, SEE SPECIAL PROVISIONS.

FOR ADDITIONAL NOTES, SEE SHEET 1 OF 2.

BEARING AND SOLE PLATE TABLE *

GIRDER NO.	BENT 1						BENT 2						BENT 3					
	SPAN A			SPAN B			SPAN C			SPAN D			SPAN D					
	BEARING TYPE	SOLE PLATE TYPE	DIM "T"	BEARING TYPE	SOLE PLATE TYPE	DIM "T"	BEARING TYPE	SOLE PLATE TYPE	DIM "T"	BEARING TYPE	SOLE PLATE TYPE	DIM "T"	BEARING TYPE	SOLE PLATE TYPE	DIM "T"	BEARING TYPE	SOLE PLATE TYPE	DIM "T"
1	E1	P1	1.375"	E2	P2	1.250"	E3	P3	1.750"	E2	P2	1.750"	E3	P3	1.625"	E1	P1	1.375"
2	E1	P1	1.375"	E2	P2	1.250"	E3	P3	1.750"	E2	P2	1.750"	E3	P3	1.625"	E1	P1	1.250"
3	E1	P1	1.375"	E2	P2	1.250"	E3	P3	1.750"	E2	P2	1.750"	E3	P3	1.750"	E1	P1	1.250"
4	E1	P1	1.375"	E2	P2	1.250"	E3	P3	1.750"	E2	P2	1.750"	E3	P3	1.750"	E1	P1	1.250"
5	E1	P1	1.375"	E2	P2	1.250"	E3	P3	1.750"	E2	P2	1.750"	E3	P3	1.500"	E1	P1	1.250"
6	E1	P1	1.375"	E2	P2	1.250"	E3	P3	1.750"	E2	P2	1.750"	E3	P3	1.750"	E1	P1	1.375"
7	E1	P1	1.375"	E2	P2	1.250"	E3	P3	1.750"	E2	P2	1.750"	E3	P3	1.625"	E1	P1	1.250"
8	E1	P1	1.375"	E2	P2	1.250"	E3	P3	1.750"	E2	P2	1.750"	E3	P3	1.750"	E1	P1	1.375"
9	E1	P1	1.375"	E2	P2	1.250"	E3	P3	1.750"	E2	P2	1.750"	E3	P3	1.625"	E1	P1	1.250"
10	E1	P1	1.375"	E2	P2	1.250"	E3	P3	1.750"	E2	P2	1.750"	E3	P3	1.750"	E1	P1	1.375"
11	E1	P1	1.375"	E2	P2	1.250"	E3	P3	1.750"	E2	P2	1.750"	E3	P3	1.750"	E1	P1	1.375"
12	E1	P1	1.875"	E2	P2	1.500"	E5	P3	1.500"	E4	P2	1.250"	E5	P3	1.500"	E1	P1	2.250"
13	E1	P1	1.875"	E2	P2	1.625"	E5	P3	1.500"	E4	P2	1.500"	E5	P3	1.500"	E1	P1	2.250"
14	E1	P1	1.875"	E2	P2	1.625"	E5	P3	1.250"	E4	P2	1.250"	E5	P3	1.500"	E1	P1	2.125"
15	E1	P1	1.875"	E2	P2	1.625"	E5	P3	1.250"	E4	P2	1.250"	E5	P3	1.500"	E1	P1	2.375"

* ALL SOLES PLATES ARE UNIFORM THICKNESS, "T", AND NOT BEVELED. SOLE PLATE THICKNESSES BASED ON EXISTING BEARING HEIGHTS MEASURED IN THE FIELD.

PROJECT NO. 15BPR.44
CUMBERLAND COUNTY
BRIDGE NO. 250053

SHEET 2 OF 2



DocuSigned by:
Eric B. Nelson
12/16/2021

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
ELASTOMERIC BEARING
DETAILS

DRAWN BY: J. MYA DATE: 01/2021
CHECKED BY: J. YANACONE DATE: 01/2021

PLANS PREPARED BY:
Gannett Fleming
2610 Wycliff Road
Suite 102
Raleigh NC 27607-3073
(919) 420-7660
NC Lic. No. F-0270

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-8
1			3			TOTAL SHEETS
2			4			19