TOTAL

109.2 CY.

436.8 GAL

15,600 L.F.

12,293 #

429 L.F.

48 EA.

10 EA.

5 EA.

160 L.F.

52 EA.

26 EA.

12 EA.

0.8 GAL

5.2 GAL.

413 L.F.

24 EA.

26 EA.

4 EA.

76,273 #

4 - GAL. / CY.

1/2" Ø STRAND 270 KSI L.L.

GRADE - 60

3/4" Ø NON FERROUS

22 1/2" X 38"

1" Ø STEEL ROD

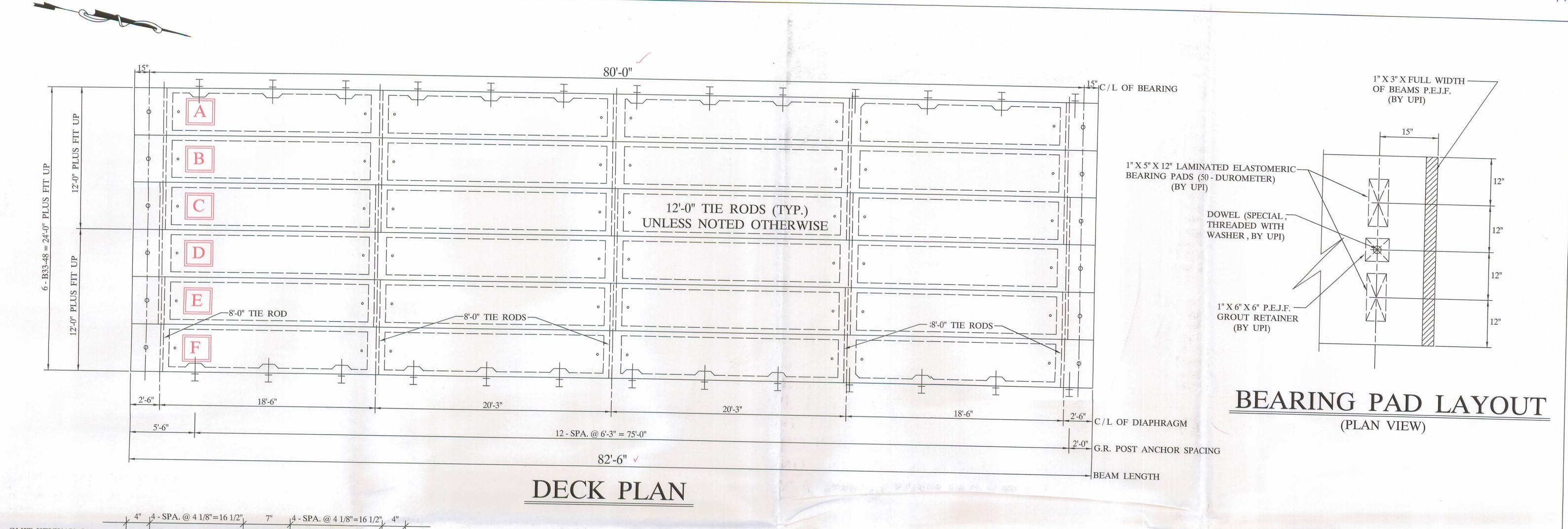
1" Ø STEEL ROD

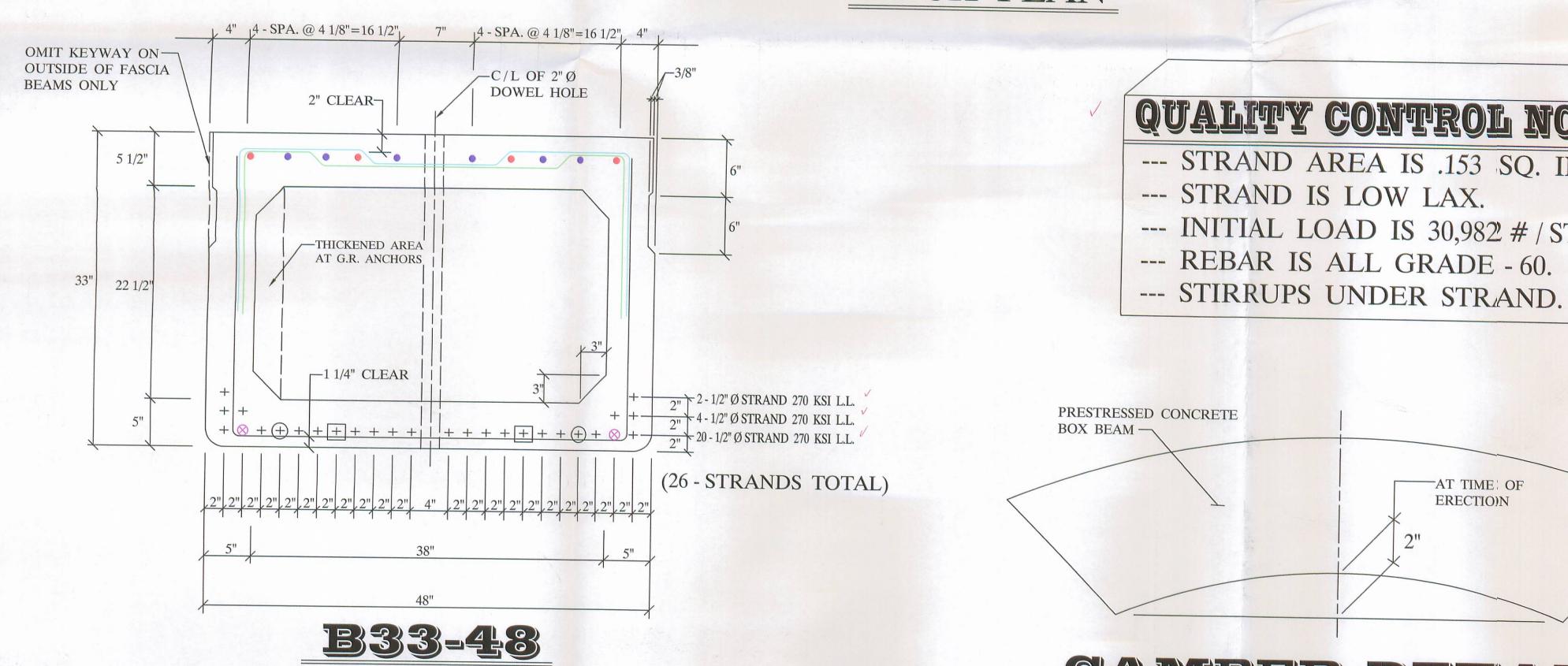
SPECIAL (THREADED)

7 Including nuts & wash

1" X 5" X 12", 3 - LAM.

TYPE - 2





4-#5 BARS FULL LENGTH RUN (TOP)

2 - #6 BARS FULL LENGTH RUN (BOTTOM)

(+) DEBOND STRAND 1'-6" AT EACH END OF BEAM

+ DEBOND STRAND 2'-6" AT EACH END OF BEAM

- #5 ADDITIONAL BARS 10'-6" LONG AT EACH END OF BEAM (TOP)

QUALITY CONTROL NOTE:

- --- STRAND AREA IS .153 SQ. IN.
- --- INITIAL LOAD IS 30,982 # / STRAND.
- --- REBAR IS ALL GRADE 60.

AT TIME: OF ERECTIO)N

CALMIBIER DIEURATIO

(ELEVATION)

UNITED PRECASULNC

ROUNDHOUSE LANE MOUNT VERNON, OHIO 43050 PHONE: (740) 393-1121 FAX: (740) 392-9708

21 P.E.J.F. 22 NON - SH		1" X 3" X 48 L.F 9 BAG GROUT, BY	175 L.F. 175 L.F. 12 S.F. OTHERS) 21 lbs.
		SCALE:	DRAWN BY:
BOX BEAM DETAILS			PHIL
JOB NAME: ITEM 515 BRIDGE NO. 94 - 1.40 PROJECT NO. T.R. 94 LOGAN COUNTY			REVISED:
DATE: AUGUST 2003	APPROVED BY: E.O.C.	8 / 20 / 03	DRAWING NO. 1 OF 4
	DESCRIPTION: BO JOB NAME: BRIDGE NO. 94 - LOGAN COUNTY DATE:	21 P.E.J.F. 22 NON - SHRINK GROUT ADDITIVE (2 1/4 CY. OF DESCRIPTION: BOX BEAM DETAILS JOB NAME: ITEM 515 BRIDGE NO. 94 - 1.40 LOGAN COUNTY DATE: ALIGUST 2003 PROJECT NO. T.R. 94 APPROVED BY:	21 P.E.J.F. 22 NON - SHRINK GROUT ADDITIVE (2 1/4 CY. OF 9 BAG GROUT, BY DESCRIPTION: BOX BEAM DETAILS SCALE: JOB NAME: ITEM 515 BRIDGE NO. 94 - 1.40 LOGAN COUNTY DATE: APPROVED BY:

BULL OF MAUFERIALS

QTY/BEAM

18.2 CY.

72.8 GAL

ITEM

(D.C.I.)

12'-0"

BEAM WEIGHT

3 | CALCIUM NITRITE

2 CONCRETE

4 STRAND

8 TIE ROD

6 VOID

5 RE-STEEL

7 VOID DRAINS

9 TIE ROD SLEEVES

10 TYPE - B - ANCHORS

11 TYPE - C - ANCHORS

12 DOWELS & SLEEVES

13 INTERTUF - 132

16 BEARING PADS

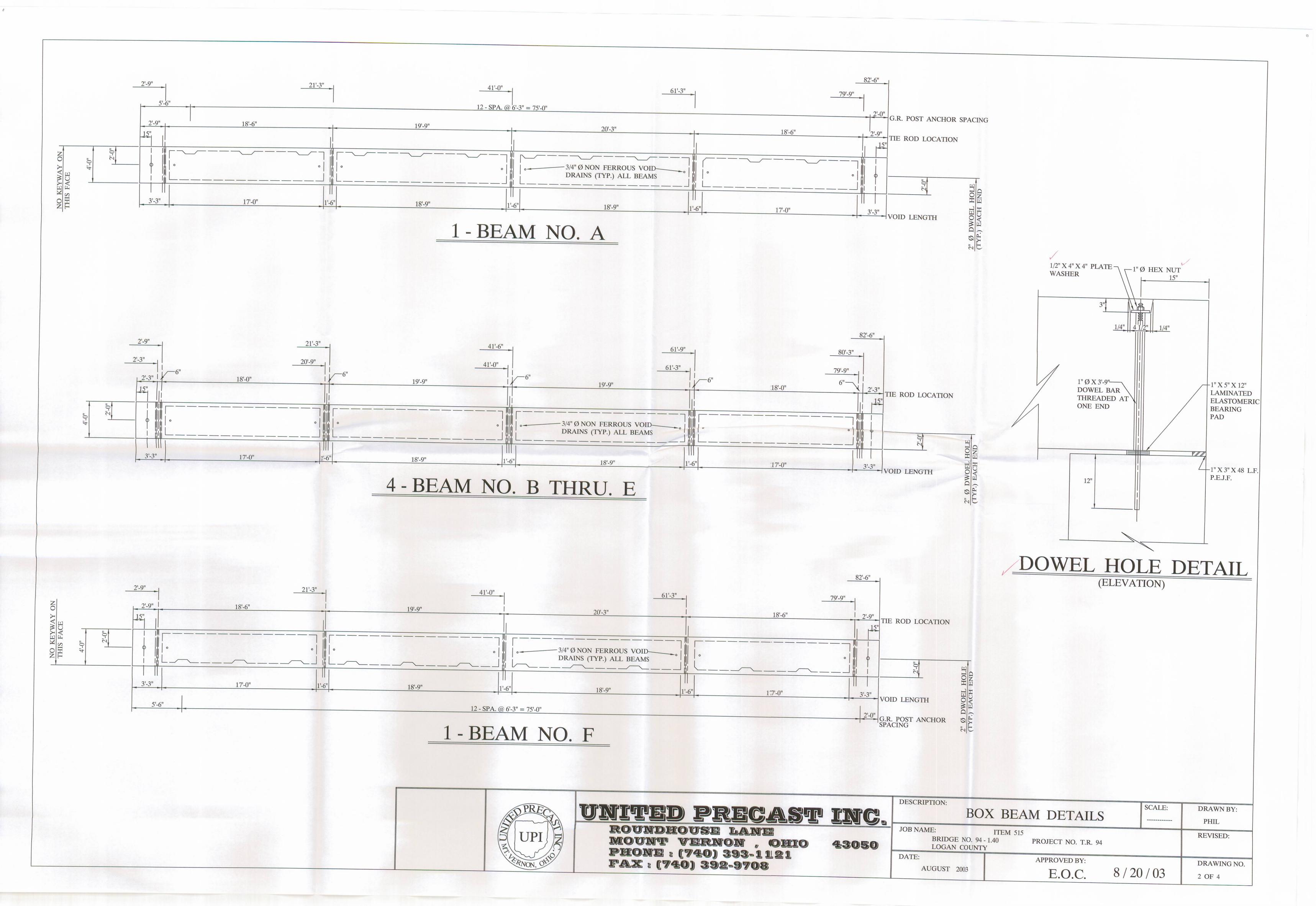
17 GUARDRAIL POST

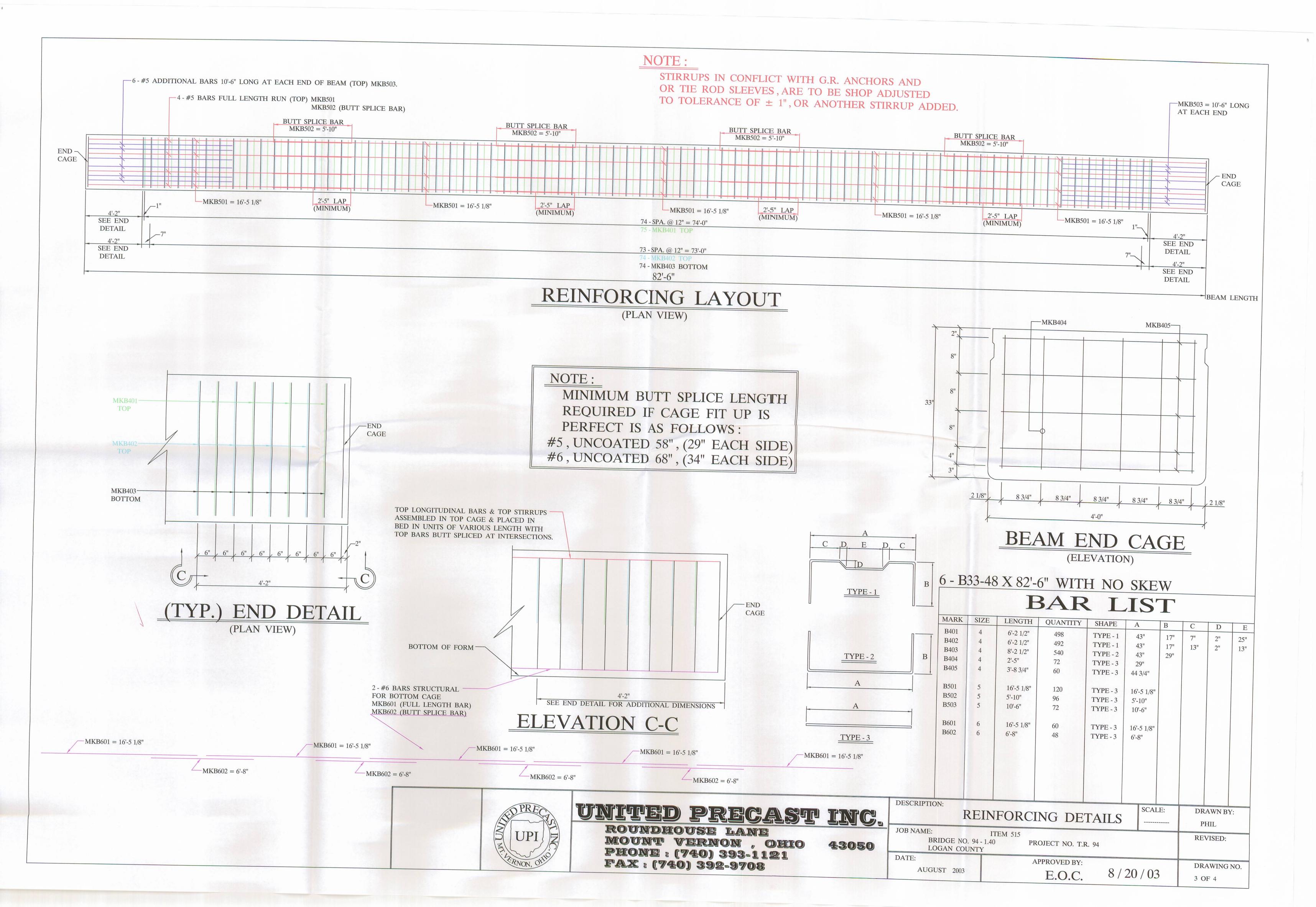
19 GUARDRAIL ELEMENT

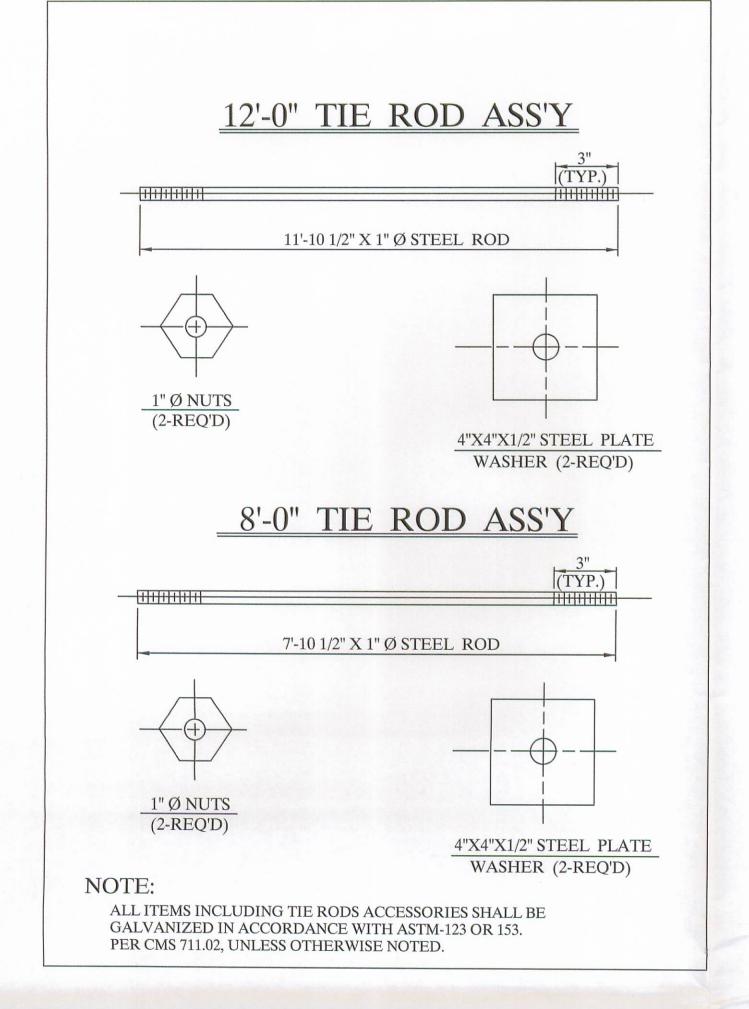
18 OFF DECK POST

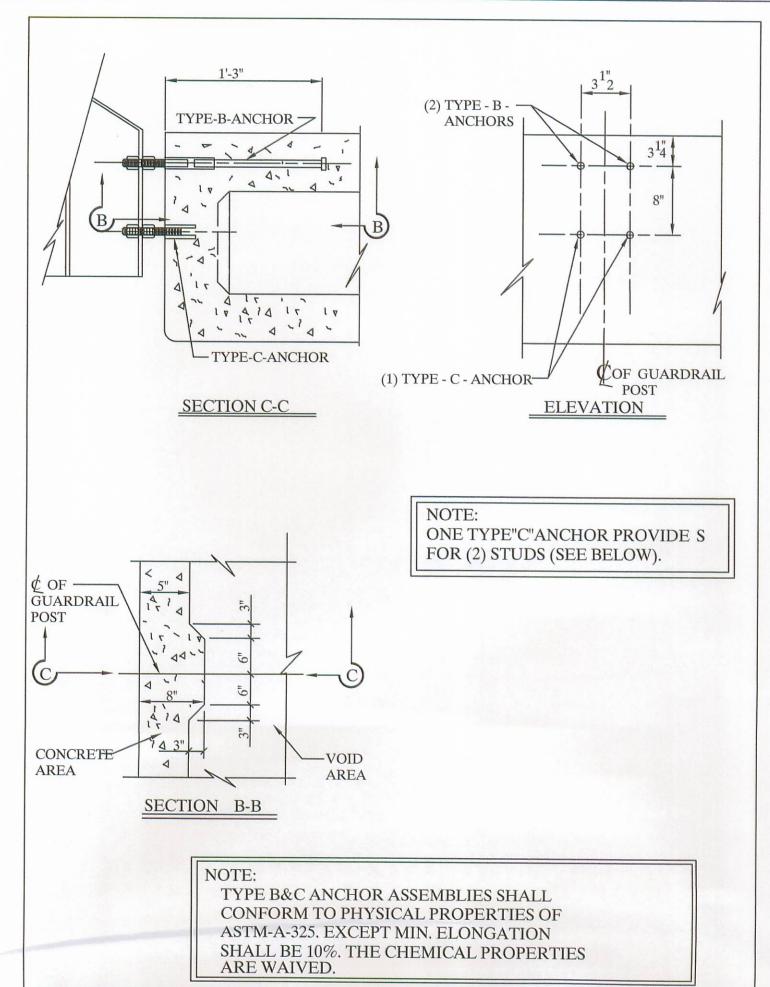
14 SILANE

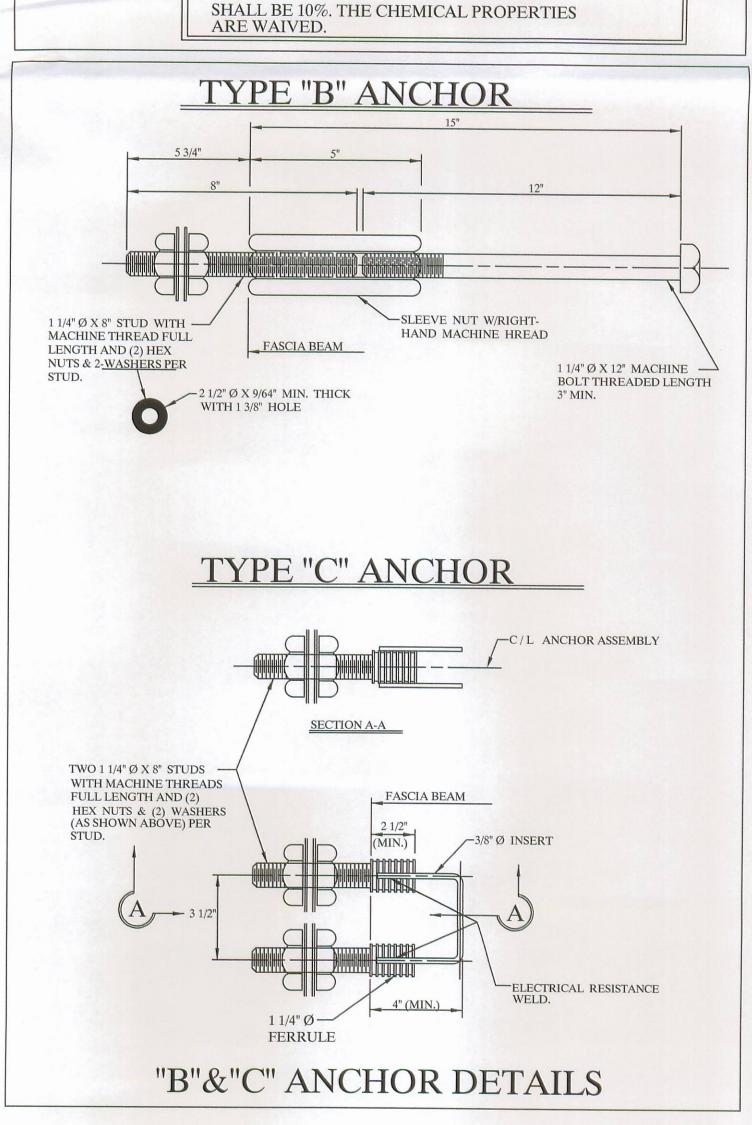
15 JUTE

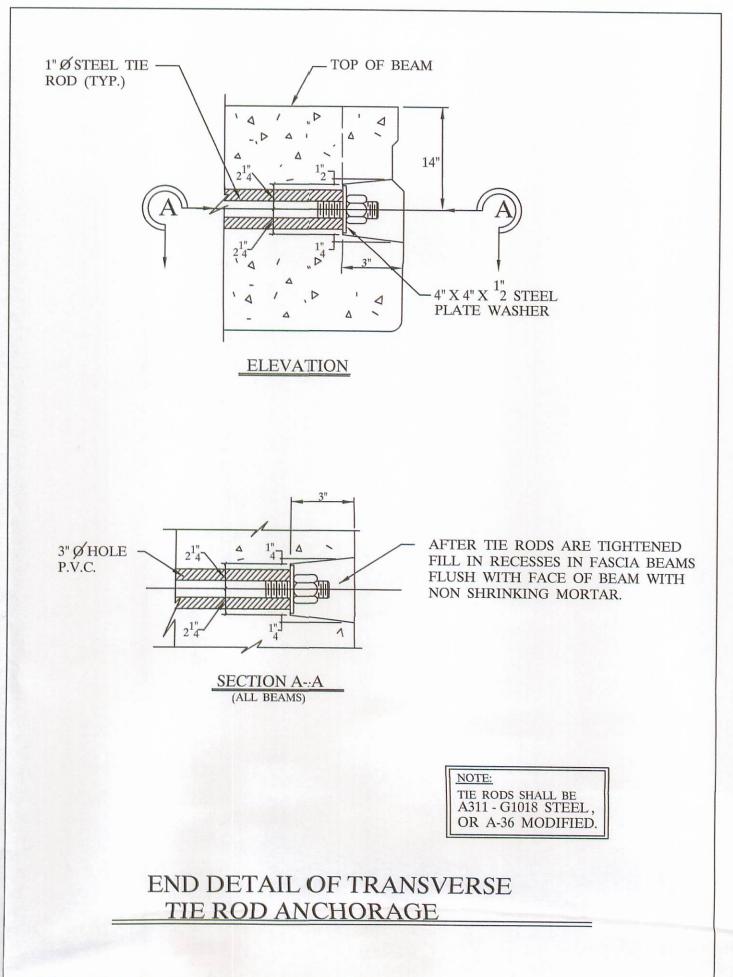


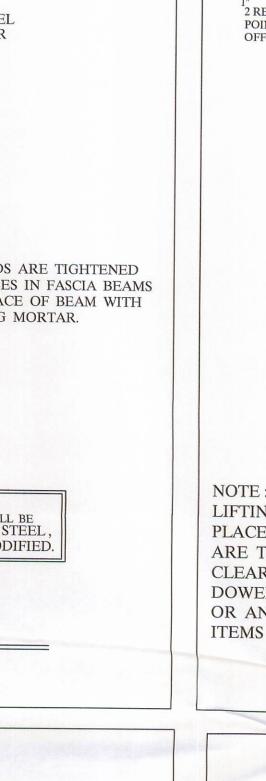


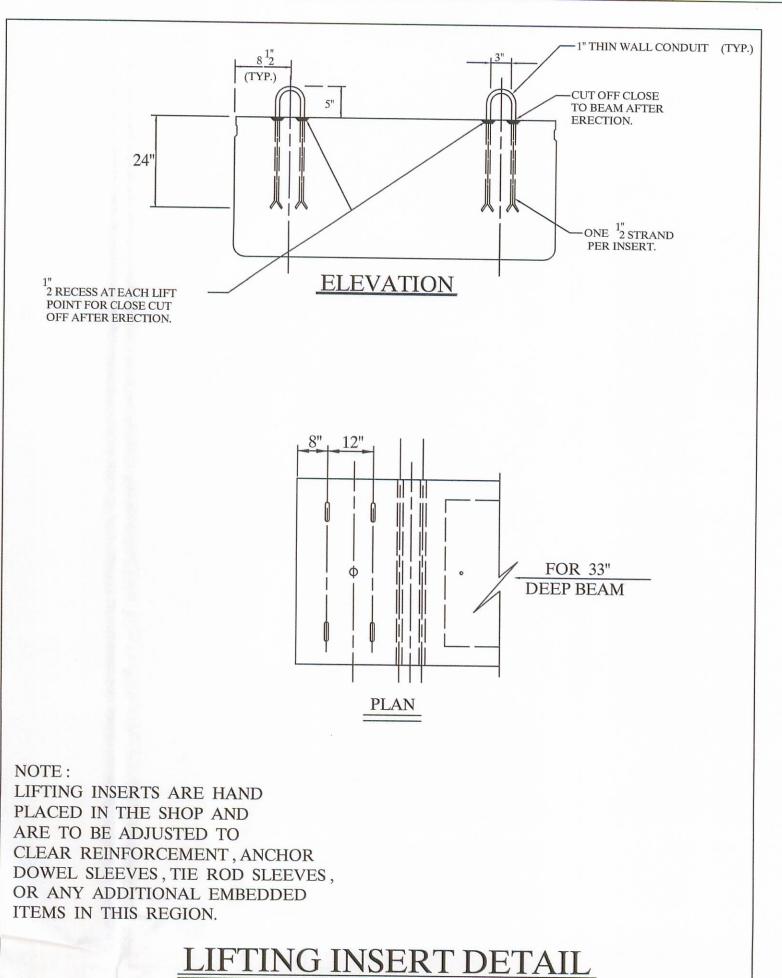














1) GALVANIZE ALL HARDWARE PER CMS. 711.02. 2) PROVIDE A BROOM FINISH ON TOP SURFACE OF BEAM SUITABLE FOR WATERPROOFING.

3) ADD D.C.I. TO CONCRETE (4-GAL./CUBIC YARD).

4) WATERPROOF BEAM ENDS.

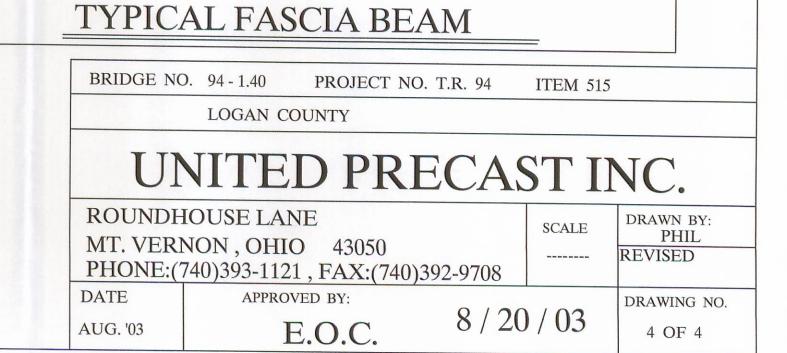
NOTE:

5) DETENSION STRAND SYMETRICALLY ABOUT CENTERLINE.

COMPRESSIVE STRENGTH, fc = 5500 PSI @ 28 DAYS (SHIPPING). fc = 4000 PSI @ RELEASE. ASTM A - 416 GRADE 270, 12 DIAMETER, SEVEN WIRE, UNCOATED LOW RELAXATION STRAND, As = .153 in. fs 2 = 270 KSI. INITIAL STRESS: 0.75 fs = 202.5 KSI. STRAND GRADE - 60: ASTM A - 615, ASTM A - 616, ASTM A - 617. REINFORCING STEEL UNIT STRESS 24,000 PSI. NOTE: PRESTRESSED CONCRETE BEAMS AND APPURTENACES CONFORM TO O.D.O.T. STANDARD BRIDGE DRAWINGS PSBD - 1 - 93 SHEETS ONE, TWO, THREE, & FOUR. THE KEYWAY SHALL -BE GIVEN A MEDIUM SANDBLAST AT THE PLANT WTHIN (4) DAYS -SILANE (TYP.) BEFORE THE BEAMS CONCRETE SEALER. LEAVE THE PLANT. APPLY IT ON SIDE OF FASCIA BEAMS WITH NO SHEARKEY. (APPLICATION RATE)

SPECIFICATIONS

DESIGN LOADING: HS20-44 AND ALTERNATE MILITARY LOADING.



125 SQ. Ft. / GAL.