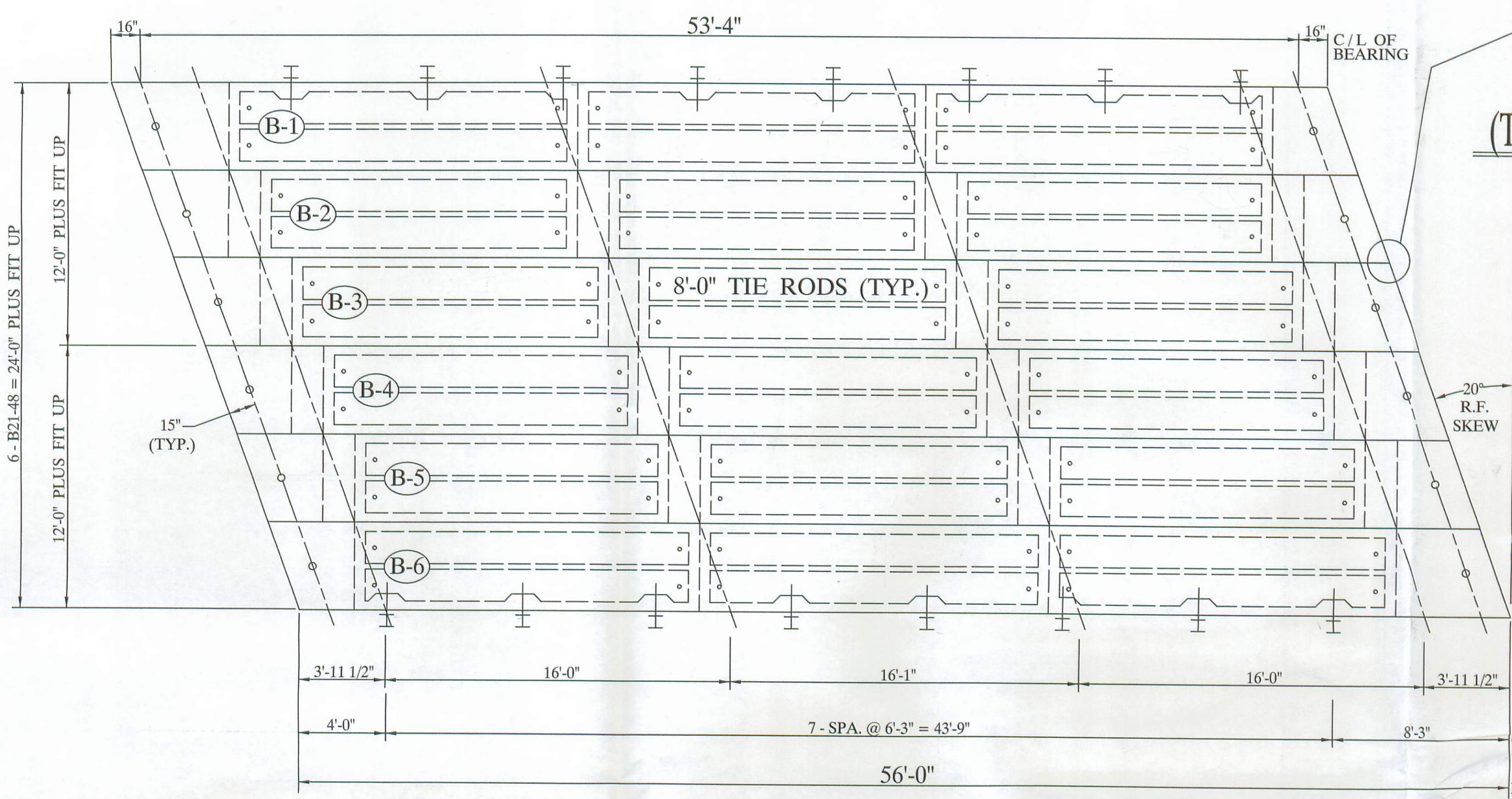
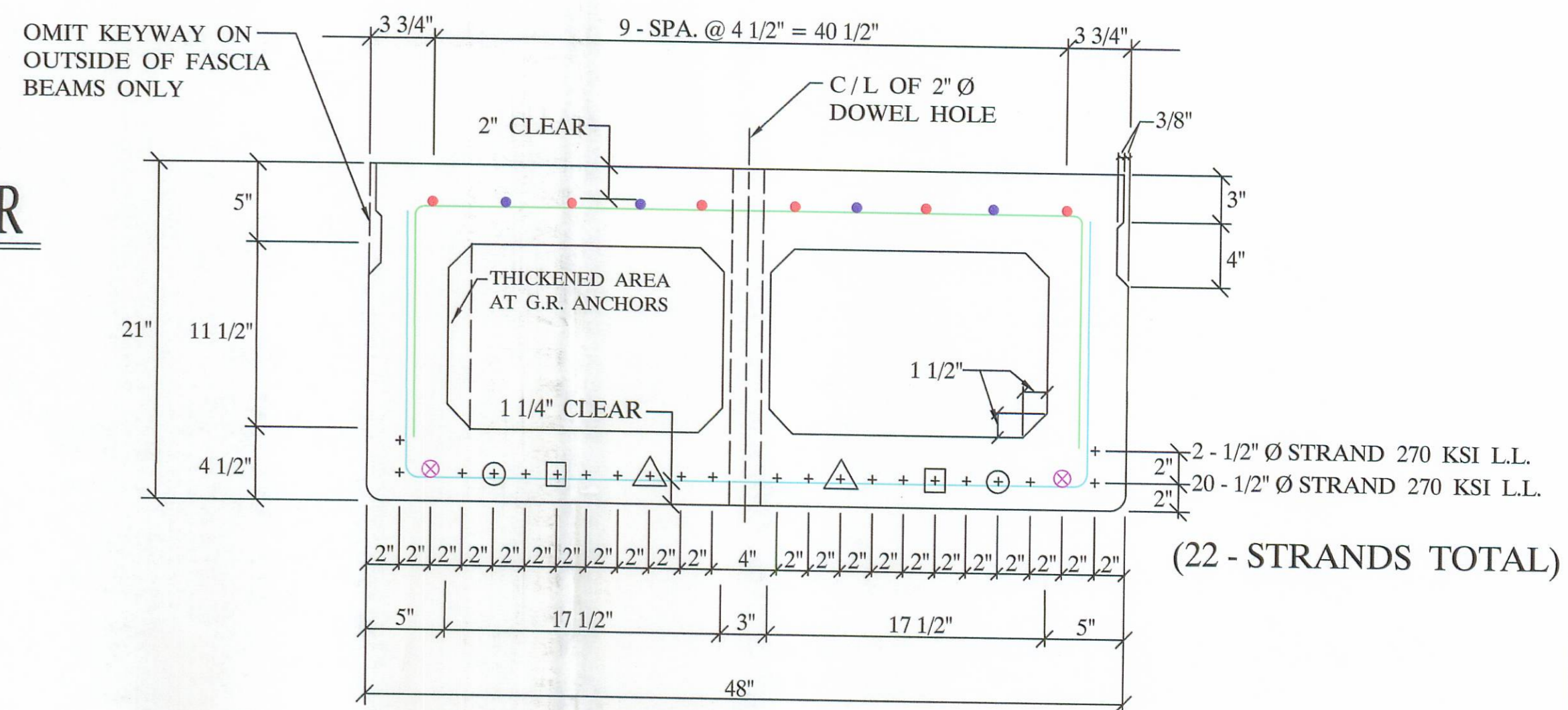


APPROVED
BY LOGAN CO. ENGINEER
4/12/2005



(TYP.) ACUTE CORNER
(PLAN VIEW)



B21-48
(6 - REQUIRED)

- 6 - #4 BARS FULL LENGTH RUN (TOP)
- 4 - #4 ADDITIONAL BARS 10'-9" LONG AT EACH END OF BEAM (TOP)
- ⊗ 2 - #5 BARS FULL LENGTH RUN (BOTTOM)
- ⊕ DEBOND STRAND 1'-6" AT EACH END OF BEAM
- ⊞ DEBOND STRAND 2'-6" AT EACH END OF BEAM
- ⊚ DEBOND STRAND 5'-6" AT EACH END OF BEAM

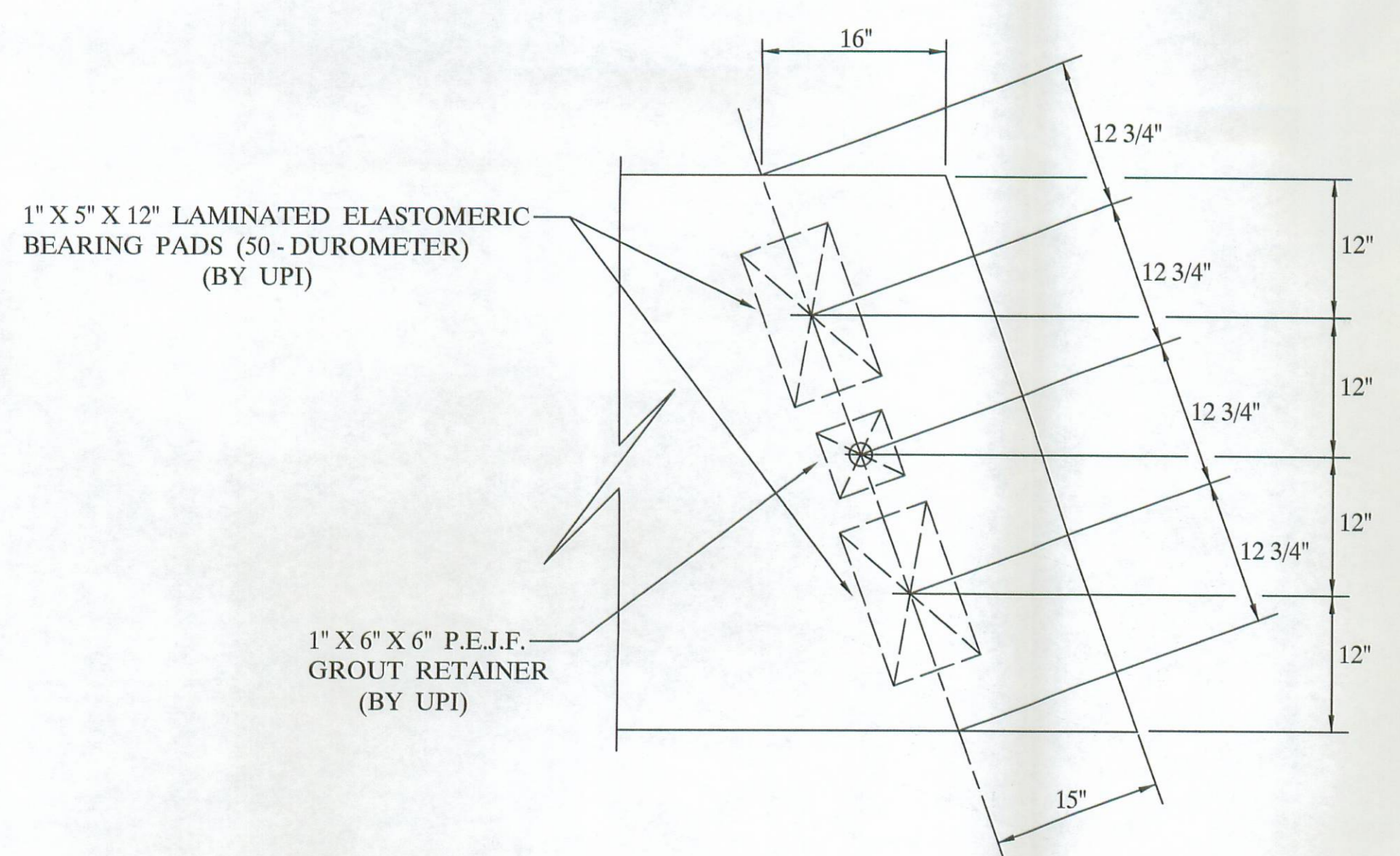
DECK PLAN

QUALITY CONTROL NOTE :

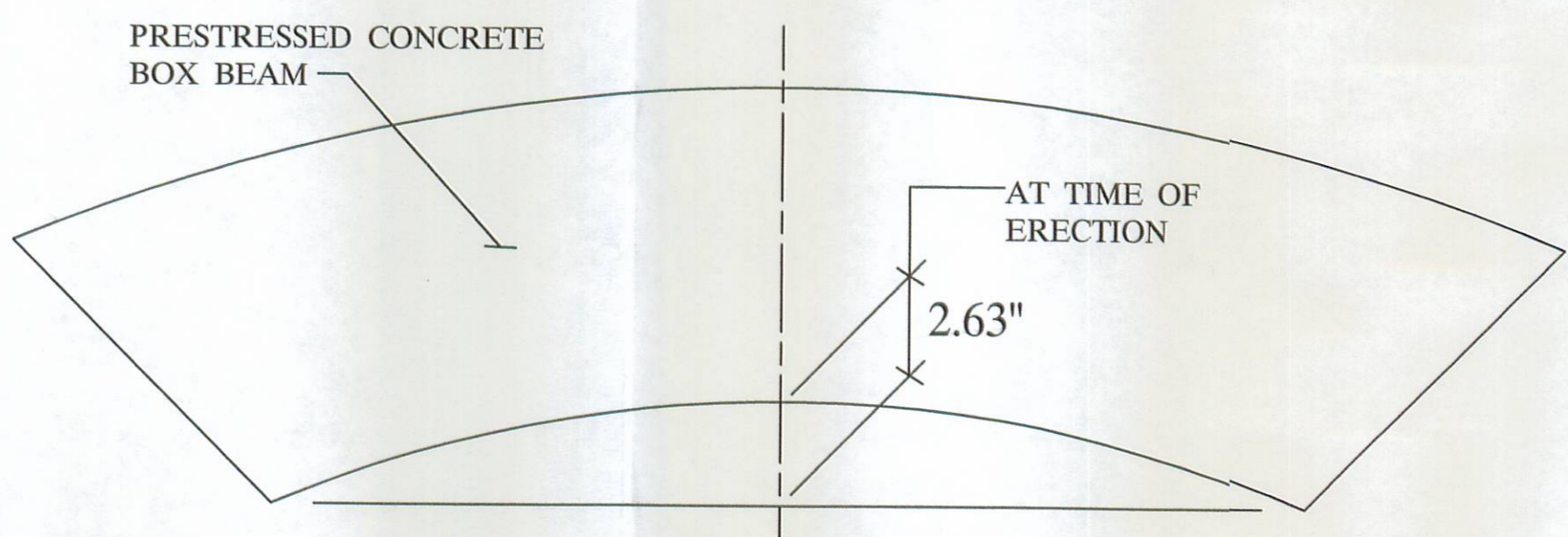
- STRAND AREA IS .153 IN. SQ.
- STRAND IS LOW LAX.
- INITIAL LOAD IS 30,982 # / STRAND.
- STIRRUPS UNDER STRAND.
- REBAR TO BE ALL GRADE - 60.
- CONCRETE STRENGTHS: 5500 PSI AT 28 DAYS
4000 PSI AT RELEASE
- ODOT 2002 SPECIFICATION.
- DOWEL PINS ARE SPECIAL, SEE SHT. 2 OF 4.

BILL OF MATERIALS

NO	ITEM	QTY / BEAM	NOTES	TOTAL
1	BEAM WEIGHT		42,091 #	
2	CONCRETE	10 CY.		60 CY.
3	CALCIUM NITRITE (D.C.I.)	40 GAL.	4 - GAL. / CY.	240 GAL.
4	STRAND		1/2" Ø STRAND 270 KSI L.L. GRADE - 60	8,800 L.F.
5	RE - STEEL		11 1/2" X 17 1/2"	6,146 #
6	VOID			529 L.F.
7	VOID DRAINS		3/4" Ø NON FERROUS 1" Ø STEEL ROD	72 EA.
8	TIE ROD	8'-0"		20 EA.
9	TIE ROD SLEEVES			160 L.F.
10	TYPE - B - ANCHORS			32 EA.
11	TYPE - C - ANCHORS			16 EA.
12	DOWELS & SLEEVES		(SPECIAL, SHT. 2 OF 4)	12 EA.
13	WASSER		MC - TAR	0.6 GAL.
14	SILANE			2.6 GAL.
15	JUTE			280 L.F.
16	BEARING PADS		1" X 5" X 12", 2 - LAM.	24 EA.
17	GUARDRAIL POST		TYPE - 2	16 EA.
18	OFF DECK POST		SHIP LOOSE	8 EA.
19	GUARDRAIL ELEMENT			150 L.F.
20	TUBULAR BACK UP			150 L.F.
21	NON SHRINK GROUT ADDITIVE		1 1/4 CY. GROUT, BY OTHERS	11 LBS.



BEARING PAD LAYOUT
(PLAN VIEW)

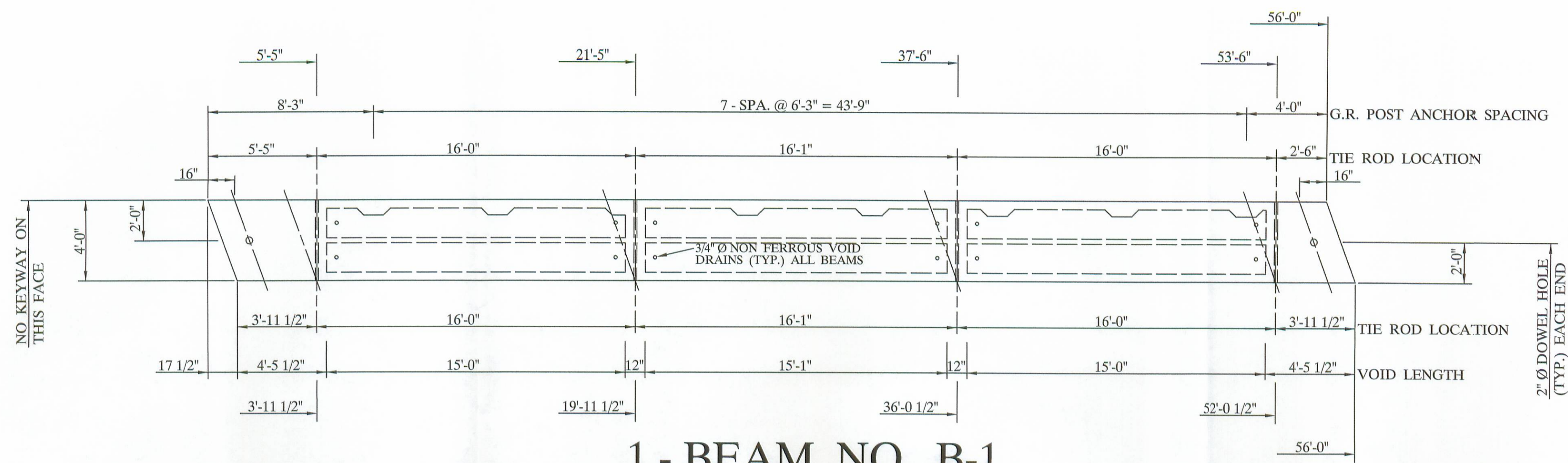


CAMBER DETAIL
(ELEVATION)

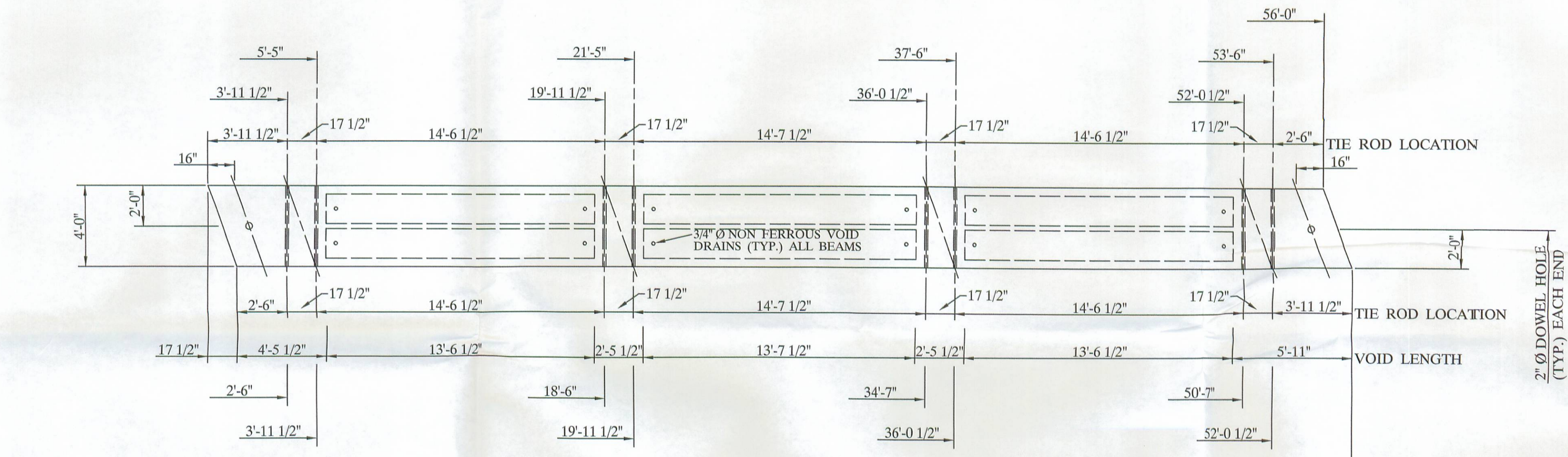


UNITED PRECAST INC.
ROUNDHOUSE LANE
MOUNT VERNON, OHIO 43050
PHONE : (740) 393-1121
FAX : (740) 392-9708

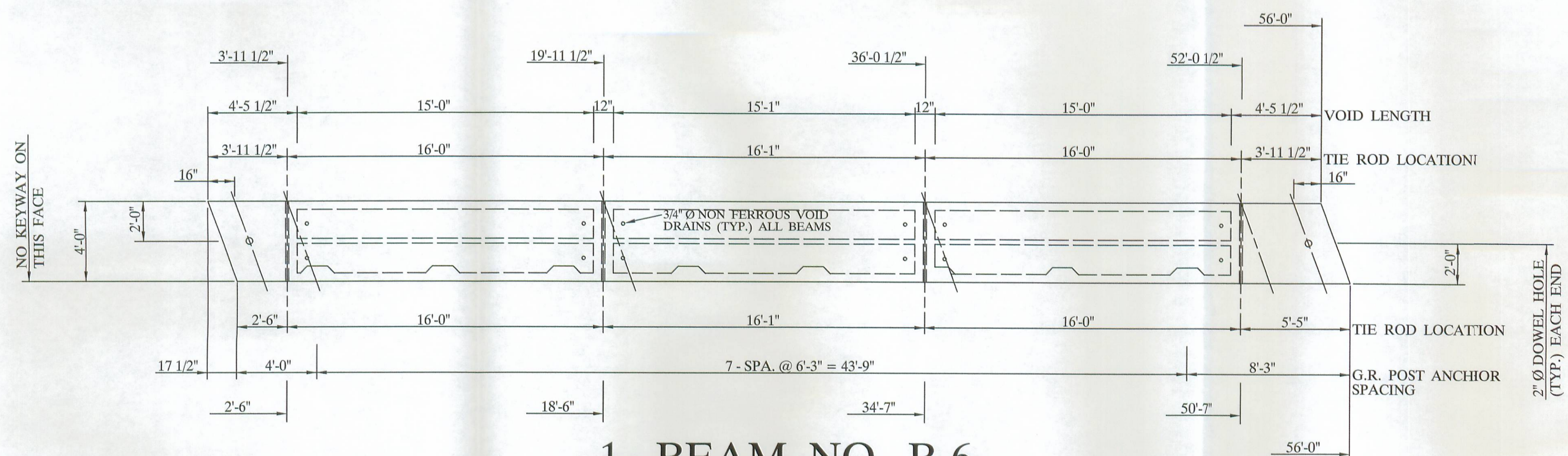
DESCRIPTION:	BOX BEAM DETAILS		SCALE:	DRAWN BY:
JOB NAME:	BRIDGE NO. 33 - 2.66 LOGAN COUNTY	PROJECT NO. T.R. 33		PHILIP
DATE:	MARCH 2005	APPROVED BY:	E.O.C.	4/4/05
				DRAWING NO. 1 OF 4



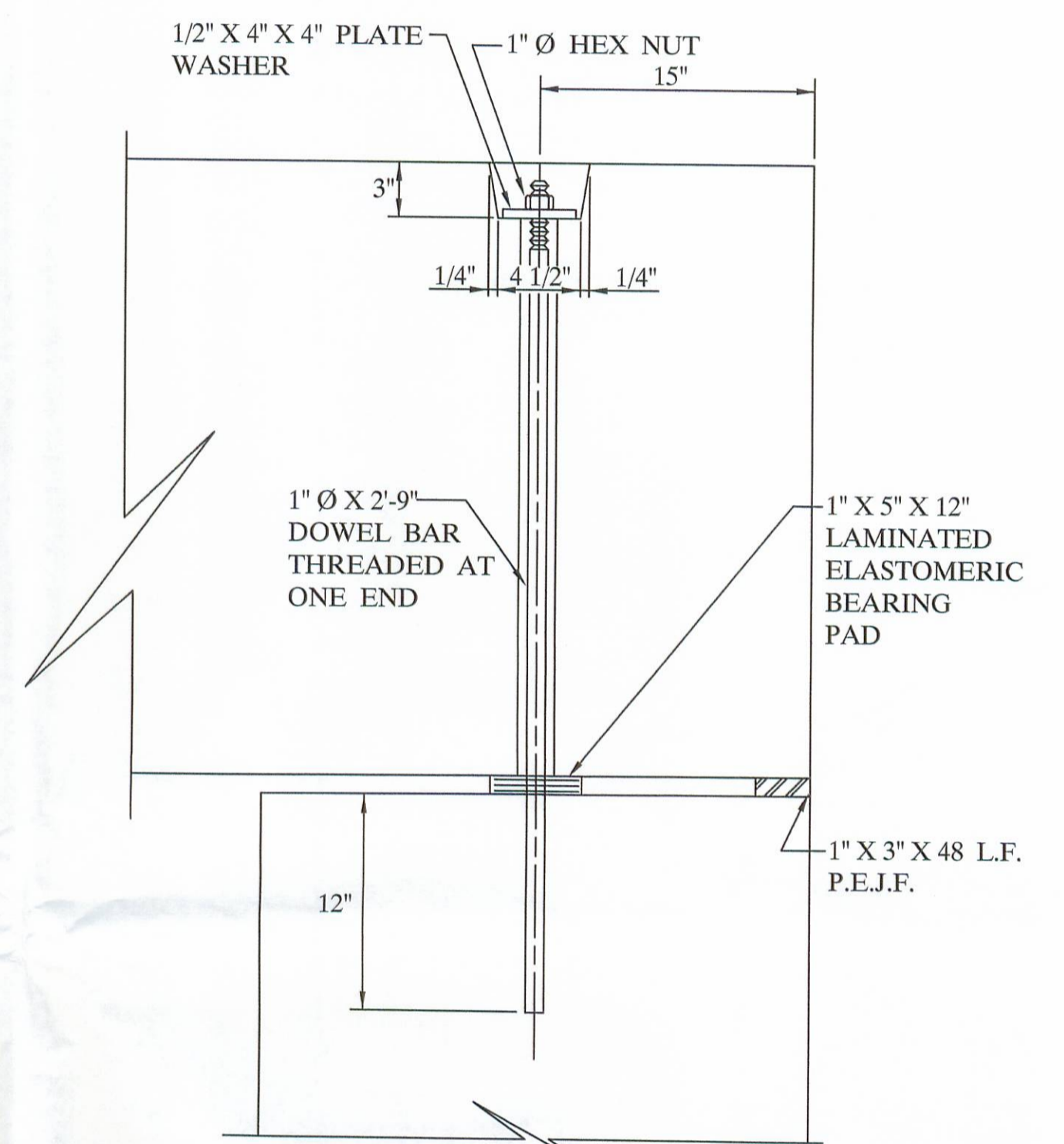
1 - BEAM NO. B-1
(PLAN VIEW)



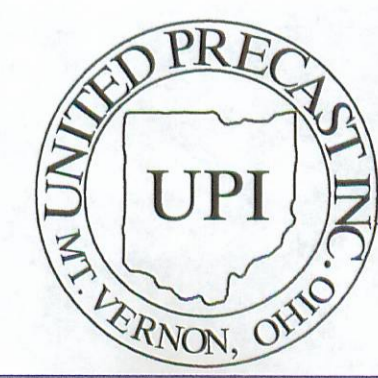
4 - BEAM NO. B-2, B-3, B-4, & B-5
(PLAN VIEW)



1 - BEAM NO. B-6
(PLAN VIEW)



DOWEL HOLE DETAIL
(ELEVATION)

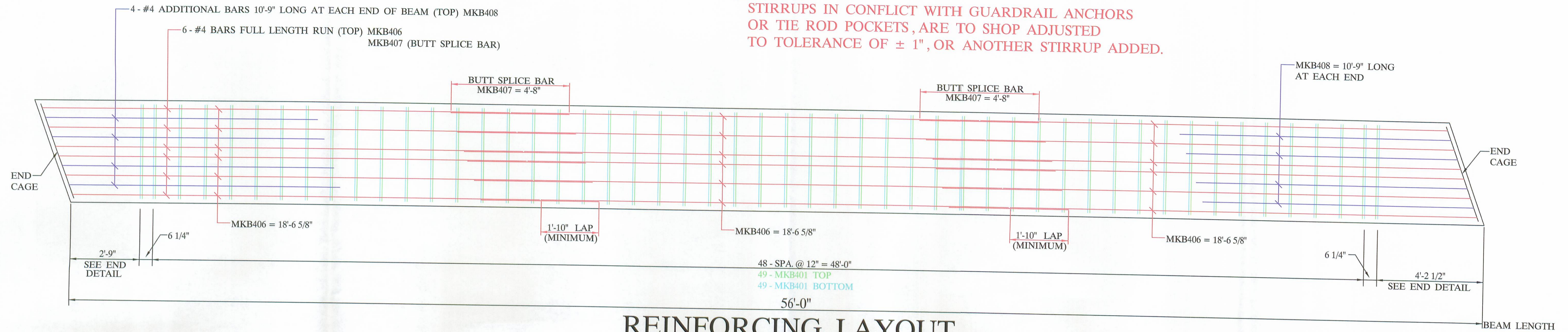


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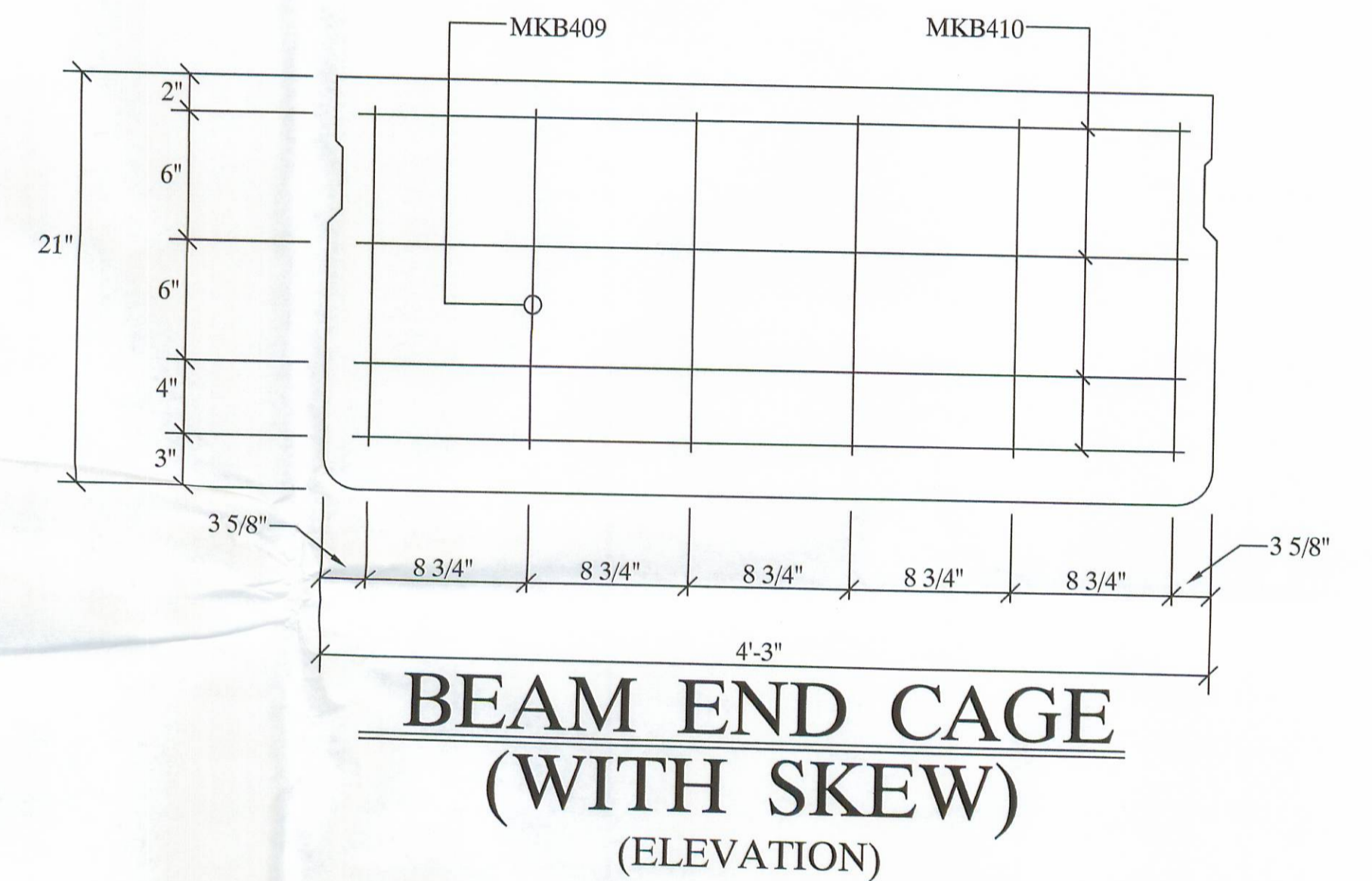
DESCRIPTION:	BOX BEAM DETAILS	SCALE:	-----	DRAWN BY:	PHIL
JOB NAME:	BRIDGE NO. 33 - 2.66 LOGAN COUNTY	PROJECT NO.	T.R. 33	REVISED:	
DATE:	MARCH 2005	APPROVED BY:	E.O.C.	DATE:	4 / 4 / 05
				DRAWING NO.	2 OF 4

NOTE :

STIRRUPS IN CONFLICT WITH GUARDRAIL ANCHORS OR TIE ROD POCKETS, ARE TO SHOP ADJUSTED TO TOLERANCE OF ± 1", OR ANOTHER STIRRUP ADDED.

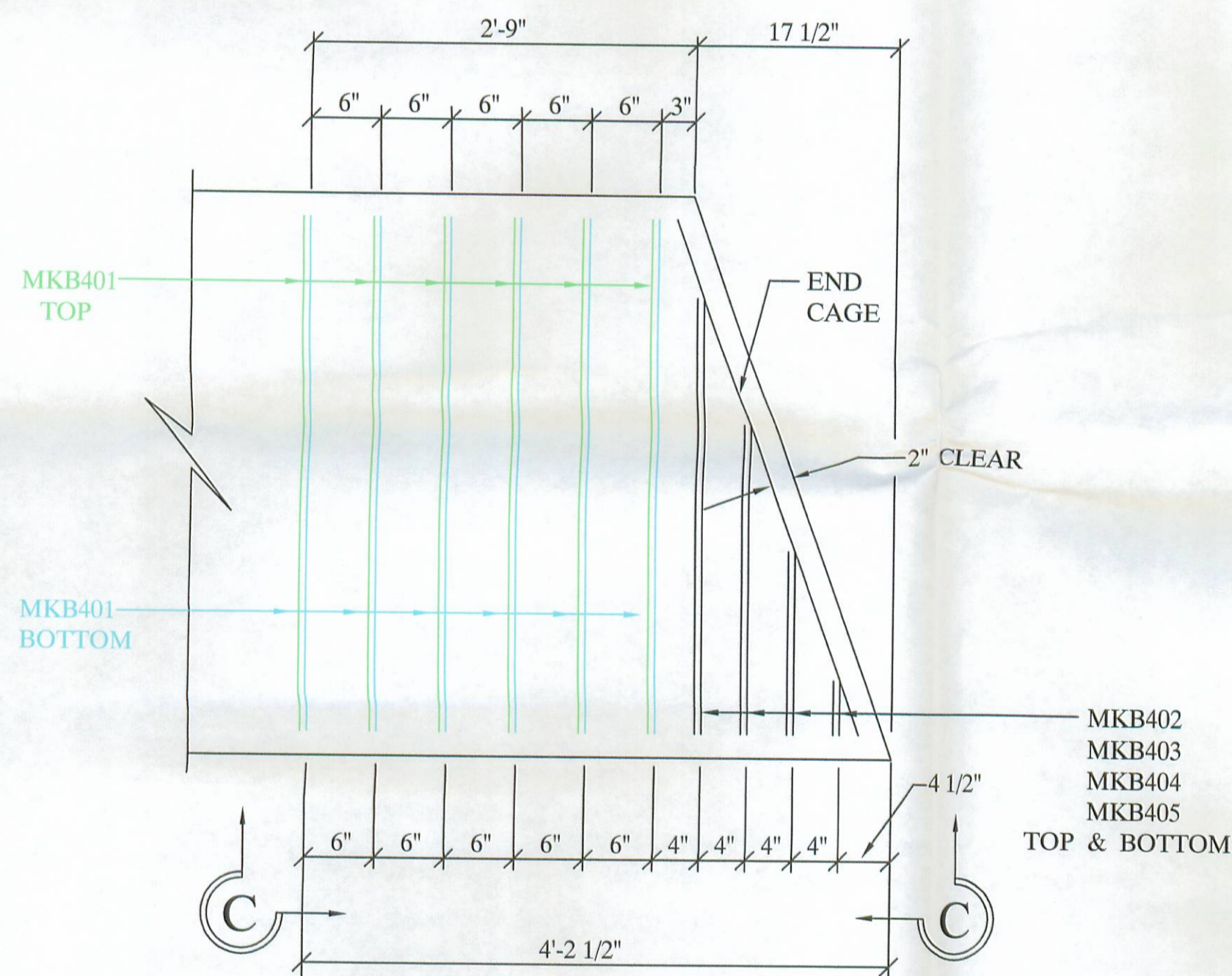


REINFORCING LAYOUT
(PLAN VIEW)

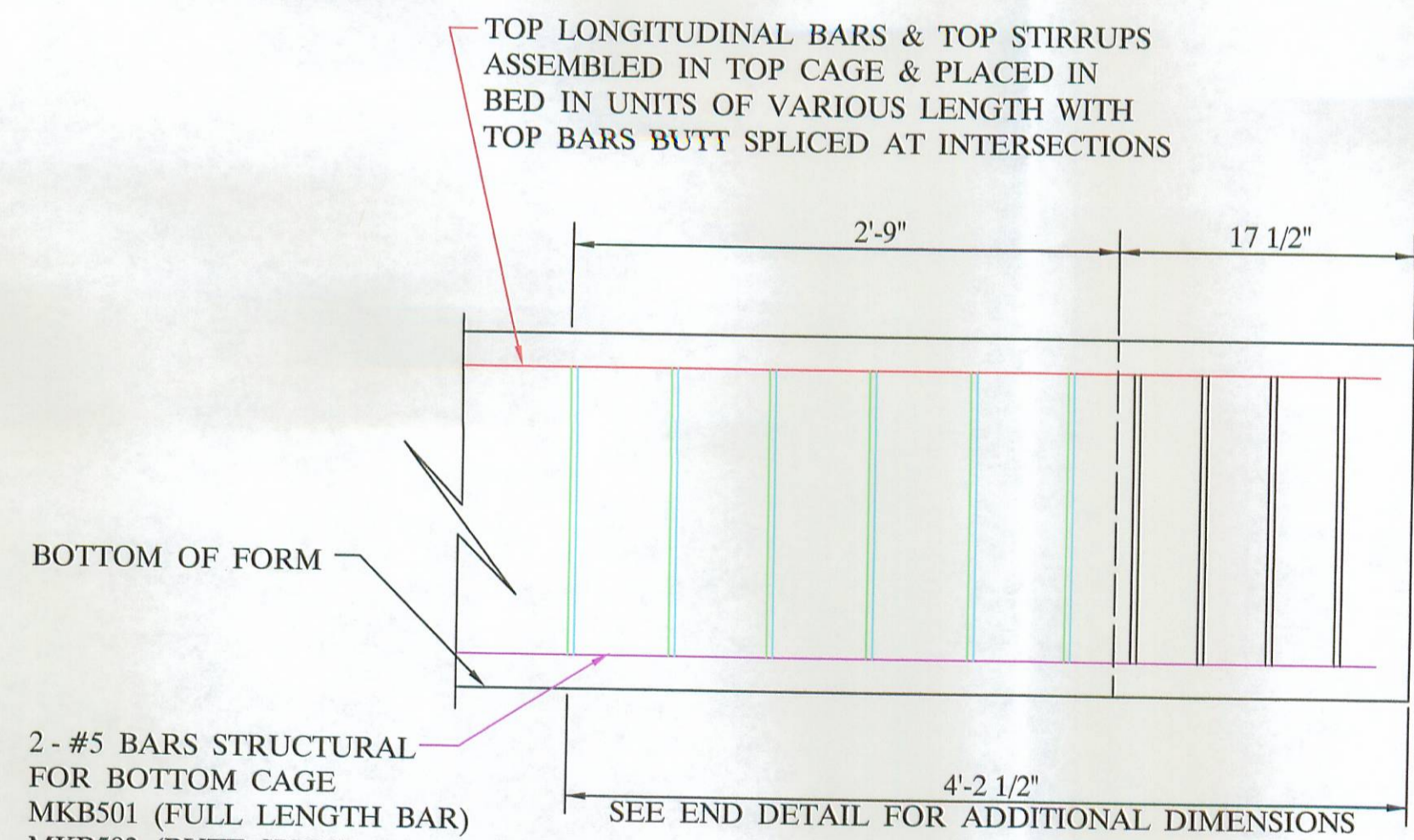


NOTE :

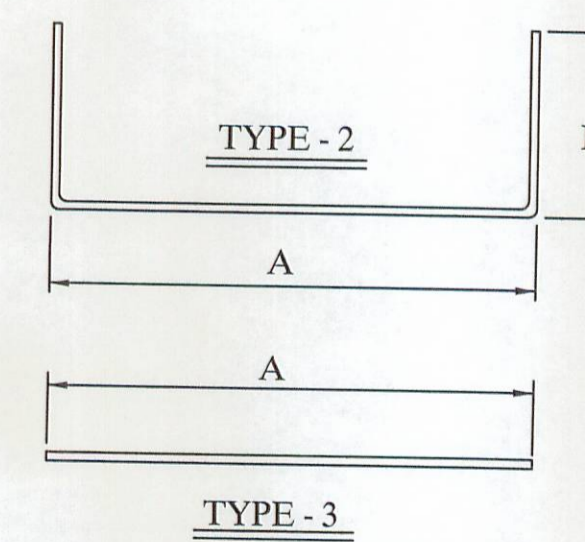
MINIMUM BUTT SPLICE LENGTH REQUIRED IF CAGE FIT UP IS PERFECT IS AS FOLLOWS:
 #4, UNCOATED 44", (22" EACH SIDE)
 #5, UNCOATED 58", (29" EACH SIDE)



(TYP.) END DETAIL
(WITH SKEW)
(PLAN VIEW)

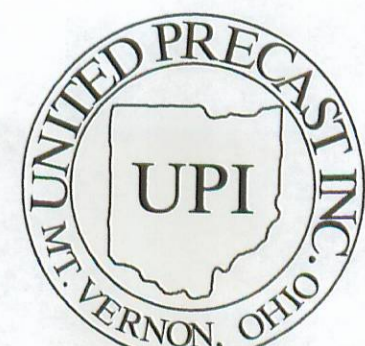


ELEVATION C-C



6 - B21-48 X 56'-0" WITH 20° R.F. SKEW
BAR LIST

MARK	SIZE	LENGTH	QUANTITY	SHAPE	A	B	C	D
B401	4	6'-2 1/2"	732	TYPE - 2	43"	17"		
B402	4	3'-0 1/2"	24	TYPE - 2	5"	17"		
B403	4	3'-11 1/2"	24	TYPE - 2	16"	17"		
B404	4	4'-10 1/2"	24	TYPE - 2	27"	17"		
B405	4	5'-9 1/2"	24	TYPE - 2	38"	17"		
B406	4	18'-6 5/8"	108	TYPE - 3	18'-6 5/8"			
B407	4	4'-8"	72	TYPE - 3	4'-8"			
B408	4	10'-9"	48	TYPE - 3	10'-9"			
B409	4	1'-5"	72	TYPE - 3	17"			
B410	4	3'-8 3/4"	48	TYPE - 3	44 3/4"			
B501	5	18'-6 5/8"	36	TYPE - 3	18'-6 5/8"			
B502	5	5'-10"	24	TYPE - 2	5'-10"			



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 FAX : (740) 392-9703

DESCRIPTION: REINFORCING DETAILS		SCALE: _____	DRAWN BY: PHIL
JOB NAME: BRIDGE NO. 33 - 2.66 LOGAN COUNTY		PROJECT NO. T.R. 33	
DATE: MARCH 2005	APPROVED BY: E.O.C.	4 / 4 / 05	DRAWING NO. 3 OF 4