

# KENTUCKY DEPARTMENT OF HIGHWAYS

## HARDIN COUNTY

### ELIZABETHTOWN - LOUISVILLE ROAD

### BULLION BLVD. OVER U.S. 31-W

MICROFILMED-72

LETTING DATE 2-15-73

PLANS PREPARED BY:  
KROBOTH ENGRS., INC.  
CONSULTING ENGRS.

Item Location	Sheet No.	REFERENCE & ESTIMATE OF QUANTITIES															
		Concrete Class 'A' (Cu Yds.)	Concrete Class 'AA' (Cu Yds.)	Steel Reinforce- ment (Lbs.)	Structural Steel (Lbs.)	High Strength Handrail (Lin. Ft.)	Protective Coating Crylene Butadiene (Gal.)	Linseed Oil (Sq. Yds.)	Structure Excavation Common (Cu Yds.)	Solid Rock (Cu Yds.)	Precast Prest. Conc. Type III (Lin. Ft.)	Steel Piling HP 12x53 Furnish (Lin. Ft.)	Drive (Lin. Ft.)	Slope Prot. Crushed Aggregate (Cu Yds.)	Electrical Conduit (Lbs.)	Special Impervious Backfill (Cu Yds.)	Special End Bent Backfill (Cu Yds.)
Title & Quantities	1																
Notes	2																
Layout	3																
Pile Record	4																
End Bent 1	5	90.4		6,490													
Pier 1	6	125.7		26,241													
Pier 2	7	175.6		28,534													
Pier 3	6	126.7		26,241													
End Bent 2	5	90.4		6,490													
Spans 1, 2, 3 & 4	3, 9, 10		719.6	161,653				1,950		2,162.0	1,540	1,540	530				
High Strength Handrail	3					478.0				34.5							
Construction Elevations	11, 12																
Electrical Conduit	12																
Soundings	14, 15																
Subtotal Substructure		609.8		89,996							3,640	3,640	1,030			480	340
Subtotal Construction			719.6	161,653		478.0		1,950		2,162.0							
Totals		609.8	719.6	161,653		478.0		1,950		2,162.0	3,640	3,640	1,030			480	340

**SPECIAL PROVISIONS:**  
 No. 88 For Linseed Oil Protective Coating  
 No. 30B For Membrane Curing of Concrete Structures  
 No. 35B For Class 'A' Concrete  
 No. 36A For Set Retarding Admixtures for Concrete  
 No. 99 For Concrete Surface Finish  
 No. 79 For Concrete Bridge Deck Finishing Machine  
 No. 80B For Blast Cleaning & Painting Structural Steel

**REFERENCES:**  
 (Standard Drawings listed below are the current Edition and are to be used with these plans.)  
 AE1-D H117E P212A-A CD2A  
 H150B EBP1-E RBC-001

**Note For Standard Drawings:**  
 Since these plans were completed most of the Standard Drawings have been modified and their drawing numbers changed.  
 Whenever the old numbers are shown on these plans, the new numbers as shown below shall be substituted.

Old Number	New Number
AE1-D	BHE-001
H150B	BHC-001 and BHC-002
H117E	BHA-009 and BHA-010
EBP1-E	BSP-001
P212A-A	BPS-003
RBC-001	RBC-001-01
CD2-A	BGX-006

- ① Approximate Weight of Structural Steel = 1822 Lbs.
- ② Approximate Length of Electrical Conduit = 540 Lin. Ft.

BILL OF INCIDENTAL MATERIAL			
Item	No.	Size	Location
Turn Bolt Insert Assembly	4	See Note, C-339	Substructure Wings
Elastomeric Bearing Pads	30	1/4" x 18" x 2'-6"	Piers
Elastomeric Bearing Pads	20	1/4" x 18" x 1'-6"	End Bents
Hook Bolt Assembly	120	For Details see Sh. 10	Roadway Deck

Bullion Blvd over U.S. 31-W Sheet 10P15

**COMMONWEALTH OF KENTUCKY**  
 DEPARTMENT OF HIGHWAYS  
 FRANKFORT  
 COUNTY OF  
**HARDIN**  
 ELIZABETHTOWN - LOUISVILLE

ROAD F79 (23)  
 STATION 170+99.28 P.E. PROJECT NO. SP47-19-4L  
 CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO.  
 RF - F 79 (27) 18570

BRIDGE



# KENTUCKY DEPARTMENT OF HIGHWAYS

## HARDIN COUNTY

### ELIZABETHTOWN-LOUISVILLE ROAD

### BULLION BLVD. OVER U.S. 31-W

LETTING DATE 2-15-73

PLANS PREPARED BY:  
KROBOTH ENGRS., INC.  
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REFERENCE & ESTIMATE OF QUANTITIES																			
Location	Item	Sheet No.	Concrete	Concrete	Steel	Structural	High	Protective Coating		Structure		Precast	Steel Piling		Slope Prot.	Electrical	Special	Special	
			Class 'A'	Class 'AA'	Reinforce-	Steel	Strength	Syrene	Linseed	Excavation	Prest. Conc.	HD 12x53	Crushed	Aggregate	Conduit	Impervious	End Bent		
			(Cu. Yds.)	(Cu. Yds.)	(Lbs.)	(Lump Sum)	(Lin. Ft.)	(Gal.)	(Sq. Yds.)	Common	Solid Rock	Bin. Type III	Furnish	Drive	(Sq. Yds.)	(Lump Sum)	(Cu. Yds.)	(Cu. Yds.)	
Title & Quantities	1																		
Notes	2																		
Layout	3																		
Pile Record	4																		
End Bent 1	5	90.4		6,490						310			900	900	510				170
Pier 1	6	126.7		26,241						280							220		
Pier 2	7	175.6		24,534						140							60		
Pier 3	6	126.7		26,241						260							200		
End Bent 2	5	90.4		6,490						310			1540	1540	520				170
Spans 1, 2, 3 & 4	8, 9, 10		719.6	161,453					1950			21620							
High Strength Handrail	3						4780												
Construction Elevations	11, 12																		
Electrical Conduit	13																		
Soundings	14, 15																		
Sub total Substructure			609.8		89,996					1300			2440	2440	1030			480	340
Sub total Superstructure				719.6	161,453	①	4780		1950			21620							
Totals			1329.4	719.6	251,449	①	4780		1950	1300		21620	2440	2440	1030		②	480	340

**SPECIAL PROVISIONS:**  
 No. 8B for Linseed Oil Protective Coating  
 No. 30B for Membrane Curing of Concrete Structures  
 No. 35B for Class 'AA' Concrete  
 No. 36A for Set Retarding Admixtures for Concrete  
 No. 77 for Concrete Surface Finish  
 No. 79 for Concrete Bridge Deck Finishing Machine  
 No. 80B for Blast Cleaning & Painting Structural Steel.

**REFERENCES:**  
 (Standard Drawings listed below are the current Edition and are to be used with these plans.)  
 AEI-D H117E P212A-A CD2A  
 H150B EBP1-E RBC-001

**Note For Standard Drawings:**  
 Since these plans were completed most of the Standard Drawings have been modified and their drawing numbers changed.  
 Wherever the old numbers are shown on these plans, the new numbers as shown below shall be substituted.

Old Number	New Number
AEI-D	BJE-001
H150B	BHC-001 and BHC-002
H117E	BHA-009 and BHA-010
EBP1-E	BBP-001
P212A-A	BPS-003
RBC-001	RBC-001-01
CD2-A	B6X-006

- ① Approximate Weight of Structural Steel = 1822 Lbs.
- ② Approximate Length of Electrical Conduit = 540 Lin. Ft.

BILL OF INCIDENTAL MATERIAL			
Item	No.	Size	Location
Four Bolt Insert Assembly	4	See Note, Sh. 3 & 9	Superstructure Wings
Elastomeric Bearing Pads	30	1 1/4" x 10" x 2"-6"	Piers
Elastomeric Bearing Pads	20	1 1/4" x 10" x 1"-6"	End Bents
Hook Bolt Assembly	220	For Details see Sh. 10	Roadway Deck

Bullion Blvd over US 31-W Sheet 1 of 15

**COMMONWEALTH OF KENTUCKY**  
 DEPARTMENT OF HIGHWAYS  
 FRANKFORT  
 COUNTY OF  
**HARDIN**  
 ELIZABETHTOWN - LOUISVILLE

ROAD F79 (23)  
 STATION 170+99.28 P.E. PROJECT NO. SP 47-19-4L  
 CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO.  
 RF - F 79 (27) 18570

BRIDGE



## GENERAL NOTES

**SPECIFICATIONS**

THE KENTUCKY DEPARTMENT OF HIGHWAYS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION CURRENT EDITION WITH REVISIONS, SHALL APPLY TO THIS PROJECT.

**DESIGN LOAD**

THIS BRIDGE IS DESIGNED FOR HS 20-44 LIVE LOAD AS SPECIFIED IN 1988 AASHTO SPECIFICATIONS INCLUDING INTERIM SPECIFICATIONS OR ALTERNATE LOADING OF TWO 24-KIP AXLES SPACED FOUR FEET APART, WHICHEVER PRODUCES THE GREATER STRESS. THIS BRIDGE IS DESIGNED FOR A WIND LOAD BASED ON A WIND VELOCITY OF 84 M.P.H.

**DESIGN STRESS**

	CLASS "A"	CLASS "AA"
$f_c$ - 20,000 PSI		$f_c$ - 20,000 PSI
$f_s$ - 1,200 PSI		$f_s$ - 1,000 PSI FOR OTHER THAN SLABS
$f'_c$ - 3,000 PSI		$f'_c$ - 1,200 PSI FOR DECK SLABS
$u$ (for embed.) - 200 PSI		$u$ (for embed.) - 4,000 PSI
$u$ (for $\Sigma u$ ) - 300 PSI		$u$ (for embed.) - 200 PSI
$n$ - 10		$n$ (for $\Sigma u$ ) - 300 PSI
		$n$ - 8
FOR PRESTRESSED GIRDER CONCRETE:		
$f_c$ - 20,000 PSI		$u$ - 300 PSI FOR SUMMATION OF PERIMETERS
$f_s$ - 270,000 PSI FOR PRESTRESSING STRANDS		$f'_c$ - 5,000 PSI
$f'_c$ - 2,000 PSI		$n$ - 8
$u$ - 200 PSI FOR EMBEDMENT		

**FOUNDATION PRESSURE**

FOOTINGS ARE DESIGNED FOR A MAXIMUM PRESSURE OF 3550 PSF. PILES ARE DESIGNED FOR A MAXIMUM AXIAL LOAD OF 32.7 TONS PER PILE AND A MAXIMUM HORIZONTAL SHEAR OF 0.9 TONS PER PILE.

**CONCRETE**

CLASS "AA" CONCRETE IS TO BE USED THROUGHOUT THE SUPERSTRUCTURE. CLASS "A" CONCRETE IS TO BE USED IN THE SUBSTRUCTURE. CLASS "D" CONCRETE IS TO BE USED IN THE OPTIONAL CONCRETE HANDRAIL.

**REINFORCEMENT**

DIMENSIONS SHOWN FROM THE FACE OF CONCRETE TO BARS ARE CLEAR DISTANCES UNLESS OTHERWISE SHOWN. SPACING OF BARS IS FROM CENTER TO CENTER OF BARS.

**BEVELED EDGES**

ALL EXPOSED EDGES SHALL BE BEVELED 7/8" UNLESS OTHERWISE SHOWN.

**PRESTRESSING REINFORCEMENT**

PRESTRESSING REINFORCEMENT SHALL BE 1/2" Ø NOMINAL DIAMETER UNCOATED SEVEN-WIRE STRESS-RELIEVED STRAND CONFORMING TO THE REQUIREMENTS OF GRADE 270, ASTM DESIGNATION, A416, CURRENT EDITION.

**TENSIONING METHOD**

BEAMS SHALL BE PRETENSIONED.

**CONSTRUCTION METHOD**

NO POND STRESS SHALL BE TRANSFERRED TO THE CONCRETE NOR SHALL END ANCHORS BE RELEASED UNTIL THE CONCRETE HAS ATTAINED A COMPRESSIVE STRENGTH AS SHOWN BY STANDARD CYLINDERS MADE AND CURED IDENTICALLY WITH THE GIRDERS. OF AT LEAST A MINIMUM STRENGTH OF 4000 PSI. CYLINDER STRENGTH SHALL BE 5000 PSI BEFORE BRIDGE IS OPEN TO TRAFFIC. AN INITIAL FORCE SHALL BE APPLIED TO EACH STRAND SUCH AS TO DEVELOP A STRESS OF 109,000 PSI. BEAMS WITH HONEYCOMB OF SUCH EXTENT AS TO EFFECT THE STRENGTH OR RESISTANCE TO DETEIORATION WILL NOT BE ACCEPTED. AN ALLOWANCE OF .0005L SHALL BE MADE FOR SHORTENING OF BEAMS DUE TO SHRINKAGE AND ELASTIC CHANGE.

**TEMPORARY SUPPORTS**

TEMPORARY SUPPORTS WILL NOT BE PERMITTED UNDER THE GIRDERS WHEN POURING THE CONCRETE FLOOR SLAB OR WHEN TAKING "TOP OF BEAM" ELEVATIONS.

**SHOP PLANS**

SHOP PLANS SHALL BE IN ACCORDANCE WITH ARTICLE 400.3.1A OF THE SPECIFICATIONS. ADDITIONALLY, SHOP PLANS SHALL INCLUDE AN OUTLINE OF THE PROPOSED PRESTRESSING PROCEDURE FOR THE DRAPED STRANDS AND OF THE TENSIONING PROCEDURE. SHOP PLANS SHALL INCLUDE A DIAGRAM OF CASTING BED LAYOUT. WHEN THE PULL DOWN METHOD IS USED, THE JACKING FORCE FOR DRAPED STRANDS TOGETHER WITH APPROPRIATE COMPUTATIONS SHALL ALSO BE SUBMITTED BY THE FABRICATOR.

**ELASTOMERIC BEARING PADS**

ELASTOMERIC BEARING PADS SHALL MEET THE REQUIREMENTS OF THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, INCLUDING CURRENT INTERIM SPECIFICATIONS, EXCEPT AS MODIFIED ON STANDARD DRAWING EBP-1, CURRENT EDITIONS. THE COST OF THIS ITEM IS TO BE INCLUDED IN THE PRICE PER LINEAR FOOT FOR PRECAST PRESTRESSED CONCRETE BEAMS.

**PAYMENT FOR PRECAST CONCRETE BEAMS**

THE BASIS OF PAYMENT FOR THE PRESTRESSED CONCRETE BEAMS SHALL BE AT THE CONTRACT UNIT PRICE PER LINEAR FOOT OF BEAM, IN ACCORDANCE WITH THE SPECIFICATIONS.

**WELDING**

THE WELDING OF THE DOVELS IN THE END OF THE PRESTRESSED BEAMS TO THE ANGLES OVER THE PIERS AND WELD MATERIAL SHALL CONFORM TO THE "RECOMMENDED PRACTICES FOR WELDING REINFORCING STEEL", AMERICAN WELDING SOCIETY SPECIFICATIONS, CURRENT EDITION. NO DIRECT PAYMENT SHALL BE MADE FOR WELDING OR WELD MATERIAL, BUT THE COST OF THESE ITEMS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PRECAST PRESTRESSED CONCRETE BEAMS.

**ELECTRICAL CONDUIT**

THE LUMP SUM BID FOR THIS ITEM SHALL INCLUDE FURNISHING ALL JUNCTION BOXES, CONDUIT AND OTHER MATERIALS AND LABOR NECESSARY FOR PLACING THESE MATERIALS IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.

**HIGH STRENGTH HANDRAIL**

THE CONTRACTOR SHALL PROVIDE THROUGHOUT THE PROJECT, AT HIS OPTION, EITHER HIGH STRENGTH ALUMINUM HANDRAIL ACCORDING TO STANDARD DRAWING H117, CURRENT EDITION, OR HIGH STRENGTH CONCRETE HANDRAIL ACCORDING TO STANDARD DRAWING H150, CURRENT EDITION.

**CONSTRUCTION IDENTIFICATION**

THE NAMES OF THE PRIME CONTRACTOR AND THE SUB-CONTRACTOR SHALL BE IMPRINTED IN THE CONCRETE WITH ONE INCH LETTERS AT A LOCATION DESIGNATED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ALL PLANS, EQUIPMENT AND LABOR NECESSARY TO DO THE WORK FOR WHICH NO DIRECT PAYMENT WILL BE MADE.

**SUPERSTRUCTURE SLAB:**

EACH SUPERSTRUCTURE SLAB EACH SIDE OF THE LONGITUDINAL CONSTRUCTION JOINT SHALL BE POURED CONTINUOUSLY FROM OUT TO OUT BEFORE THE CONCRETE IS ALLOWED TO SET.

**MATERIALS:**

AWS AND ASTM SPECIFICATIONS, CURRENT EDITION, AS DESIGNATED BELOW SHALL GOVERN THE MATERIALS FURNISHED

ASTM A 36-88 STRUCTURAL STEEL FOR ARMED EDGES.  
AWS A 5.1-88 WILD STEEL COVERED ARC-WELDING ELECTRODES.

**MEMBRANE CURING COMPOUND**

WHITE PIGMENTED CURING COMPOUND SHALL BE APPLIED TO THE BRIDGE DECK IN ACCORDANCE WITH THE SPECIAL PROVISION, EXCEPT THAT THE MEMBRANE COMPOUND USED SHALL HAVE A RESINOUS BASE.

**LINSEED OIL PROTECTIVE COATING:**

LINSEED OIL PROTECTIVE COATING SHALL BE APPLIED IN ACCORDANCE WITH THE SPECIAL PROVISION, EXCEPT THAT IT SHALL ONLY BE APPLIED TO THE BRIDGE DECK BETWEEN THE GUTTER LINES AND SHALL NOT BE APPLIED UNTIL AFTER THE MASONRY COATING FINISH HAS BEEN APPLIED TO THE MEDIAN, CURBS AND PLINTHS.

**BILL OF INCIDENTAL MATERIAL**

THE QUANTITIES SHOWN IN THE BILL OF INCIDENTAL MATERIAL ARE APPROXIMATE ONLY AND THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ENOUGH MATERIAL TO COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. THE COST OF THESE ITEMS IS TO BE INCLUDED IN THE UNIT PRICE BID FOR CLASS "AA" CONCRETE, OR PRESTRESSED CONCRETE BEAMS AS NOTED.

**PAYMENT FOR STRUCTURAL STEEL:**

THE LUMP SUM BID FOR STRUCTURAL STEEL SHALL BE FULL PAYMENT FOR ALL STRUCTURAL STEEL, WELDING AND WELDING MATERIALS, PAINT AND ALL LABOR AND MATERIALS NECESSARY TO ERECT THE STEEL IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. THE APPROXIMATE WEIGHT OF STRUCTURAL STEEL SHOWN IN THE ESTIMATE OF QUANTITIES DOES NOT INCLUDE WELD MATERIAL.

**PILING**

THE CONTRACTOR SHALL USE A STANDARD 12" STRUCTURAL STEEL BEARING PILE # 53 LBS. SEE STANDARD DRAWING P212A, CURRENT EDITION. PILING SHALL BE DRIVEN TO REFUSAL OR TO SOLID ROCK. TEST PILES SHALL BE DRIVEN WHERE DESIGNATED ON THE PLANS TO DETERMINE THE LENGTH OF PILE REQUIRED. THE TEST PILES SHALL BE ACCURATELY LOCATED SO THAT THEY MAY BE USED IN THE FINISHED STRUCTURE.

**PAINT**

ALL STRUCTURAL STEEL SHALL BE CLEANED AND PAINTED IN ACCORDANCE WITH THE SPECIAL PROVISION FOR BLAST CLEANING AND PAINTING STRUCTURAL STEEL, CURRENT EDITION.

**SPECIAL END BENT BACKFILL:**

THE BACKFILL BEHIND END BENTS SHALL BE FREE DRAINING GRANULAR MATERIAL CONFORMING TO THE FOLLOWING SPECIFICATION AND SHALL EXTEND FROM THE BASE OF THE PILE BENT ON A 1:1 SLOPE TO SUBGRADE. THE GRANULAR BACKFILL SHALL BE REASONABLY FREE OF FOREIGN SUBSTANCES WITH 100 PERCENT PASSING THE 3/8" SIEVE AND NOT MORE THAN 10 PERCENT PASSING THE NO. 100 SIEVE WITH A SAND EQUIVALENT VALUE OF NOT LESS THAN 60. PAYMENT SHALL BE MADE AT THE CONTRACT UNIT PRICE FOR SPECIAL END BENT BACKFILL.

**PIER EXCAVATION:**

THE DIVISION OF MATERIALS (THRU CENTRAL CONSTRUCTION OFFICE) SHALL BE NOTIFIED WHEN FOOTING EXCAVATION HAS BEEN ACCOMPLISHED TO WITHIN 6 INCHES TO ONE FOOT OF PLAN GRADE TO PERMIT EVALUATION OF THE FOUNDATION SUPPORT. FINAL EXCAVATION TO GRADE SHALL NOT BE ACCOMPLISHED UNTIL NOTICE IS RECEIVED FROM THE DIVISION OF MATERIALS. SPECIAL CARE SHALL BE TAKEN NOT TO DISTURB THE BOTTOM OF PIER FOOTING EXCAVATIONS, AND THE FINAL REMOVAL OF THE FOUNDATION MATERIAL TO GRADE SHALL NOT BE MADE UNTIL JUST BEFORE THE CONCRETE IS PLACED. SPECIAL CARE SHALL BE TAKEN TO KEEP WATER OUT OF EXCAVATIONS. ADDITIONAL EXCAVATION DUE TO NONCOMPLIANCE WITH THE ABOVE NOTE WILL BE AT THE CONTRACTOR'S EXPENSE.

**SPECIAL IMPERVIOUS BACKFILL**

SPECIAL IMPERVIOUS BACKFILL SHALL BE UTILIZED AT THE PIER FOOTINGS TO PREVENT SURFACE WATER FROM PERCOLATING TO THE BEARING STRATA. THE BACKFILL SHALL BE IMPERVIOUS CLAY (GROUP CLASSIFICATION A-7-5 OR A-7-6) AND SHALL EXTEND FROM THE BASE OF PIER FOOTINGS TO ROADWAY GRADE. HORIZONTAL PAY LIMIT SHALL BE THE SAME AS STRUCTURE EXCAVATION. "EXTRA COMPACTION" SHALL BE REQUIRED. PAYMENT SHALL BE MADE AT CONTRACT UNIT PRICE FOR SPECIAL IMPERVIOUS BACKFILL.

NOTES

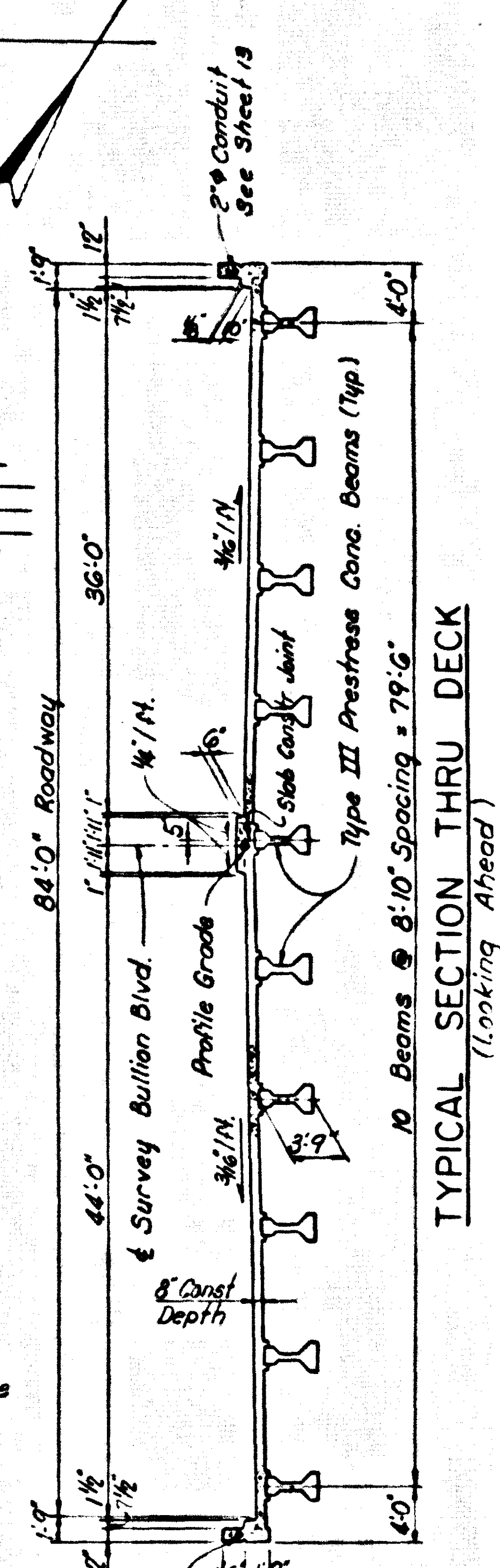
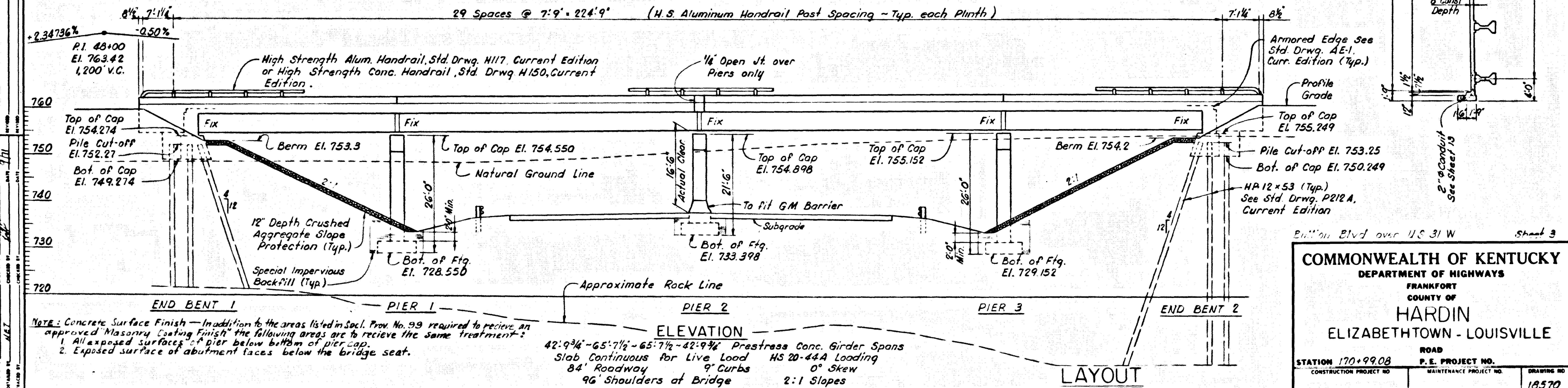
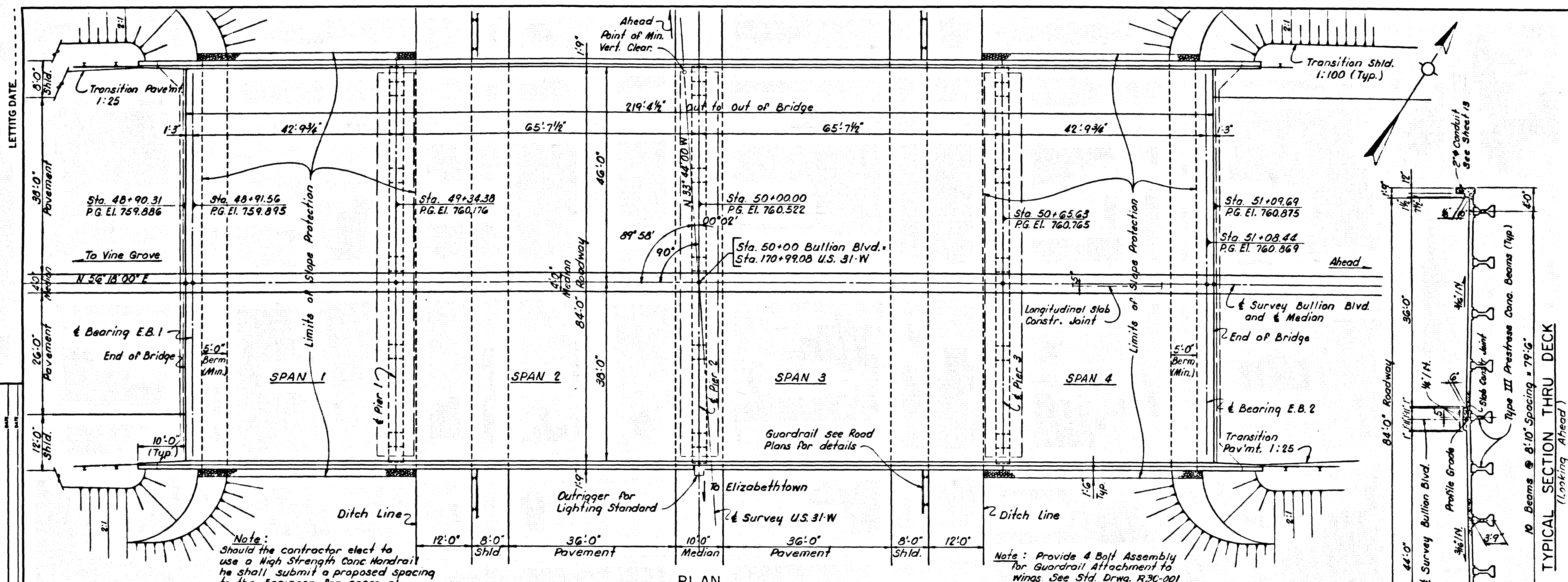
3/11/07 Elev. over U.S. 31-W

Sheet 2

<b>COMMONWEALTH OF KENTUCKY</b>		
DEPARTMENT OF HIGHWAYS		
FRANKFORT		
COUNTY OF		
<b>HARDIN</b>		
ELIZABETHTOWN - LOUISVILLE		
ROAD		
P. E. PROJECT NO.		
STATION 170+99.00	CONSTRUCTION PROJECT NO.	DRAWING NO.
		18570

BRIDGE

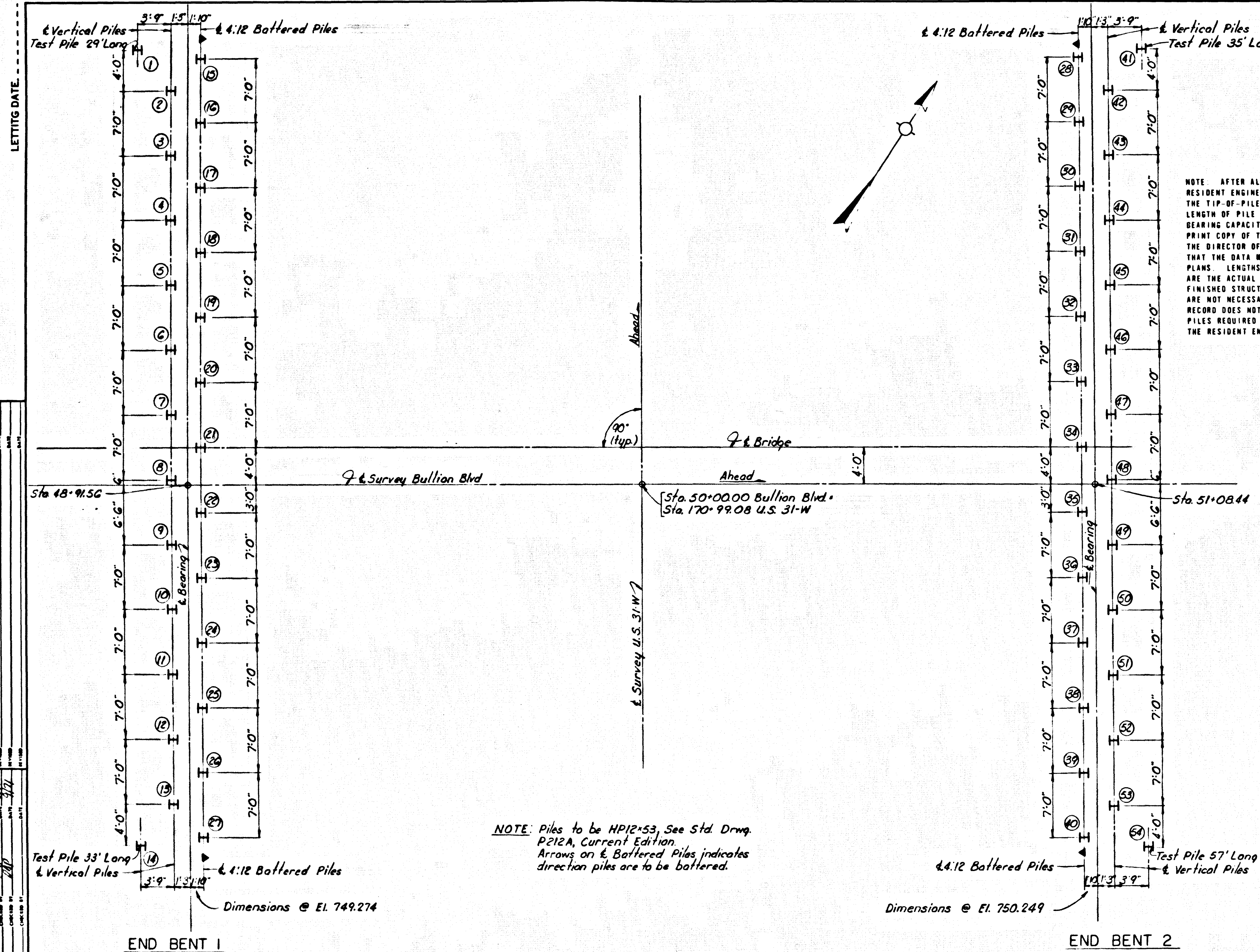




COMMONWEALTH OF KENTUCKY  
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**HARDIN**  
 ELIZABETHTOWN - LOUISVILLE  
 ROAD  
 STATION 170+99.08  
 P. E. PROJECT NO.  
 CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO.  
 DRAWING NO. 18570

**BRIDGE**





NOTE: Piles to be HP12x53, See Std. Drwg. P212A, Current Edition. Arrows on  $\&$  Battered Piles indicates direction piles are to be battered.

NOTE: AFTER ALL PILES HAVE BEEN DRIVEN THE RESIDENT ENGINEER SHALL RECORD FOR EACH PILE THE TIP-OF-PILE ELEVATION AS DRIVEN, THE LENGTH OF PILE IN PLACE AND THE CALCULATED BEARING CAPACITY AND SHALL RETURN ONE BLUE PRINT COPY OF THIS SHEET WITH THIS DATA TO THE DIRECTOR OF THE DIVISION OF BRIDGES SO THAT THE DATA MAY BE RECORDED ON THE ORIGINAL PLANS. LENGTHS OF PILES IN PLACE SHOWN HEREON ARE THE ACTUAL LENGTHS OF PILES IN THE FINISHED STRUCTURE BELOW CUTOFF ELEVATION AND ARE NOT NECESSARILY PAY ITEMS. THIS PILE RECORD DOES NOT REPLACE OTHER RECORDS OF PILES REQUIRED TO BE KEPT AND SUBMITTED BY THE RESIDENT ENGINEER.

PILE RECORD				
Pile No	Pile Cut-Off Elevation	Tip of Pile Elevation	Pile Length (Lin. Ft.)	Calc. Brg. Capacity (Tons)
End Bent 1				
1	752.27			
2	"			
3	"			
4	"			
5	"			
6	"			
7	"			
8	"			
9	"			
10	"			
11	"			
12	"			
13	"			
14	"			
15	"			
16	"			
17	"			
18	"			
19	"			
20	"			
21	"			
22	"			
23	"			
24	"			
25	"			
26	"			
27	"			
End Bent 2				
28	753.25			
29	"			
30	"			
31	"			
32	"			
33	"			
34	"			
35	"			
36	"			
37	"			
38	"			
39	"			
40	"			
41	"			
42	"			
43	"			
44	"			
45	"			
46	"			
47	"			
48	"			
49	"			
50	"			
51	"			
52	"			
53	"			
54	"			

Bullion Blvd over U.S. 31-W Sheet 4

**COMMONWEALTH OF KENTUCKY**  
 DEPARTMENT OF HIGHWAYS  
 FRANKFORT  
 COUNTY OF  
**HARDIN**  
 ELIZABETHTOWN - LOUISVILLE  
 ROAD

STATION 170+99.08 P. E. PROJECT NO.

CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO.

18570

PILE RECORD

**BRIDGE**



LETTING DATE:

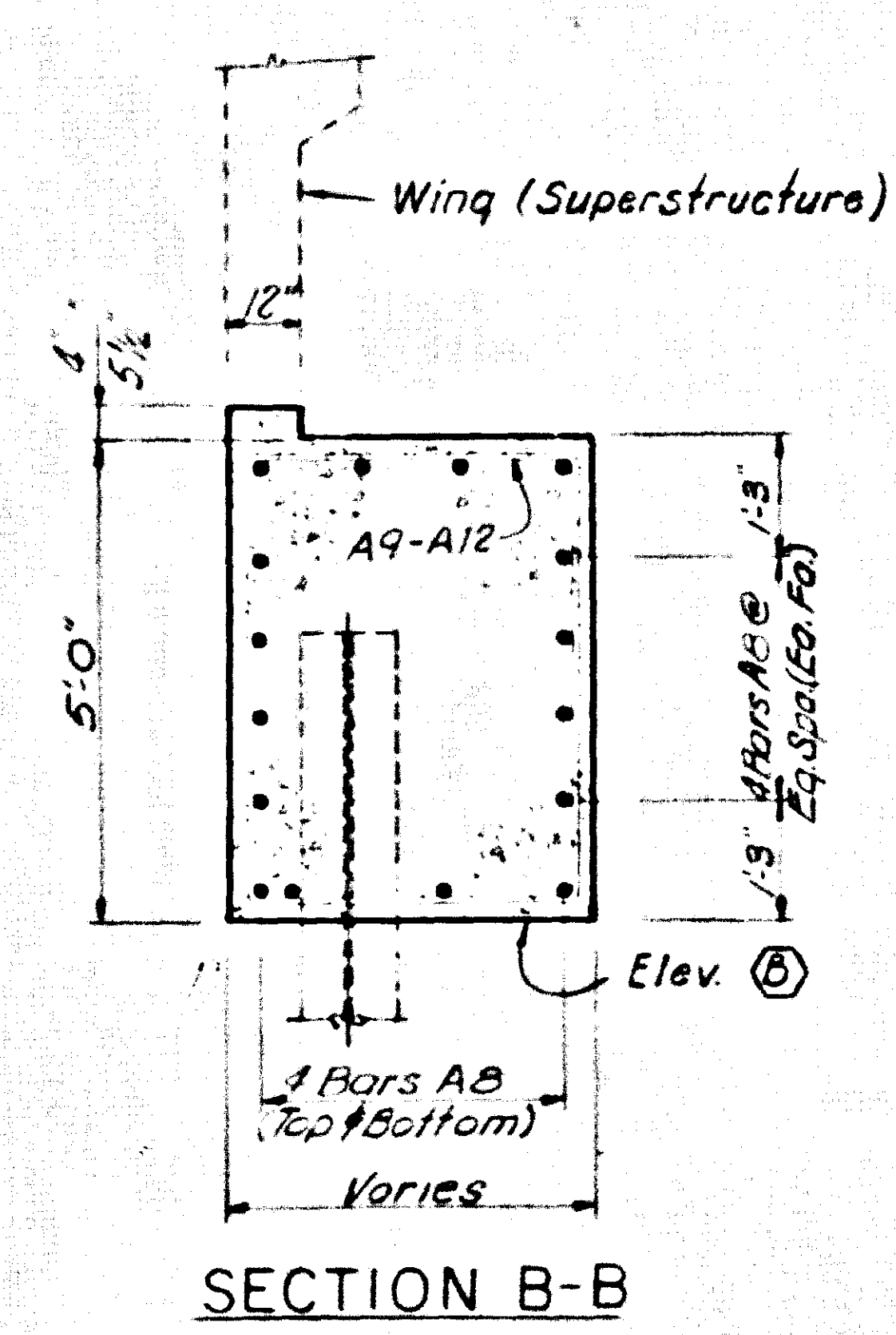
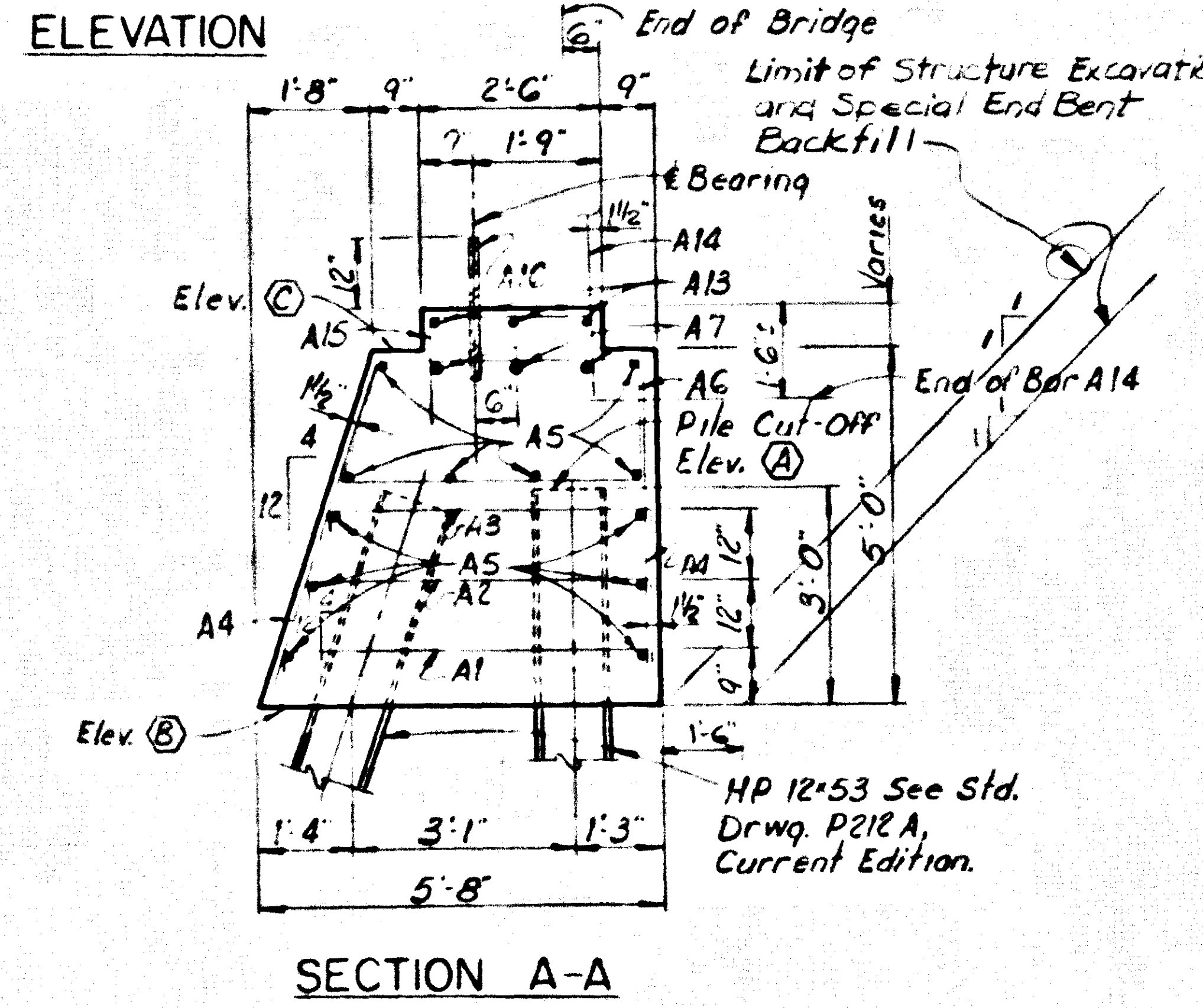
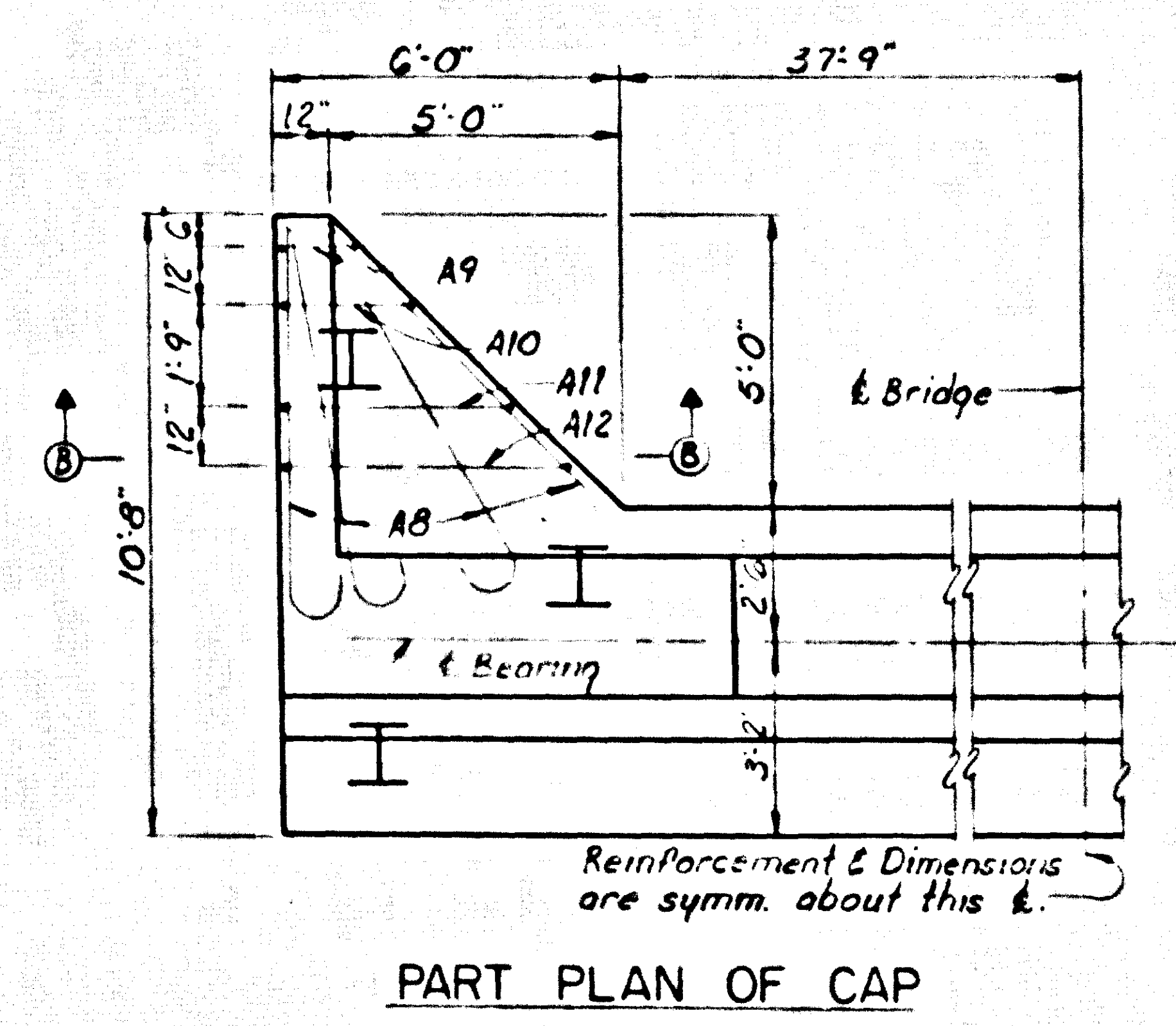
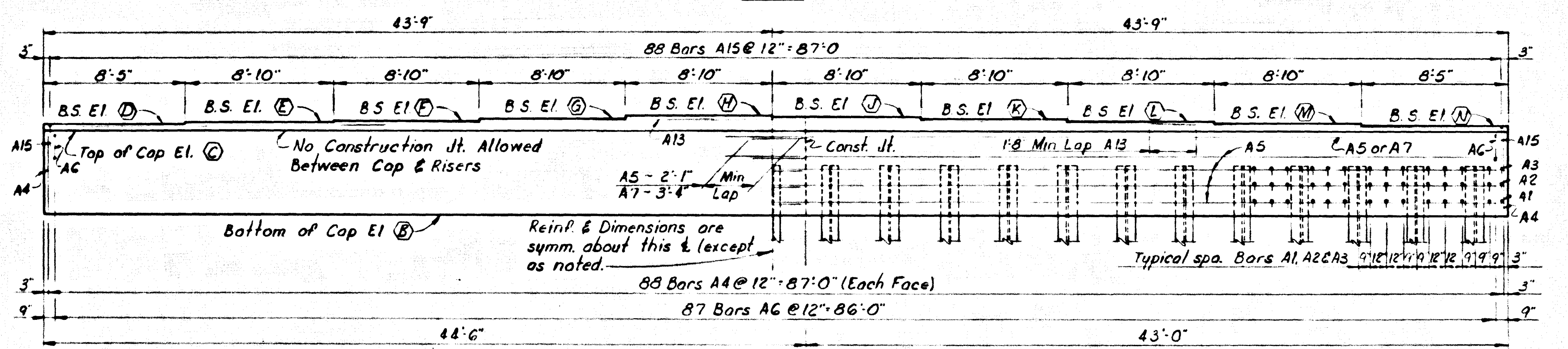
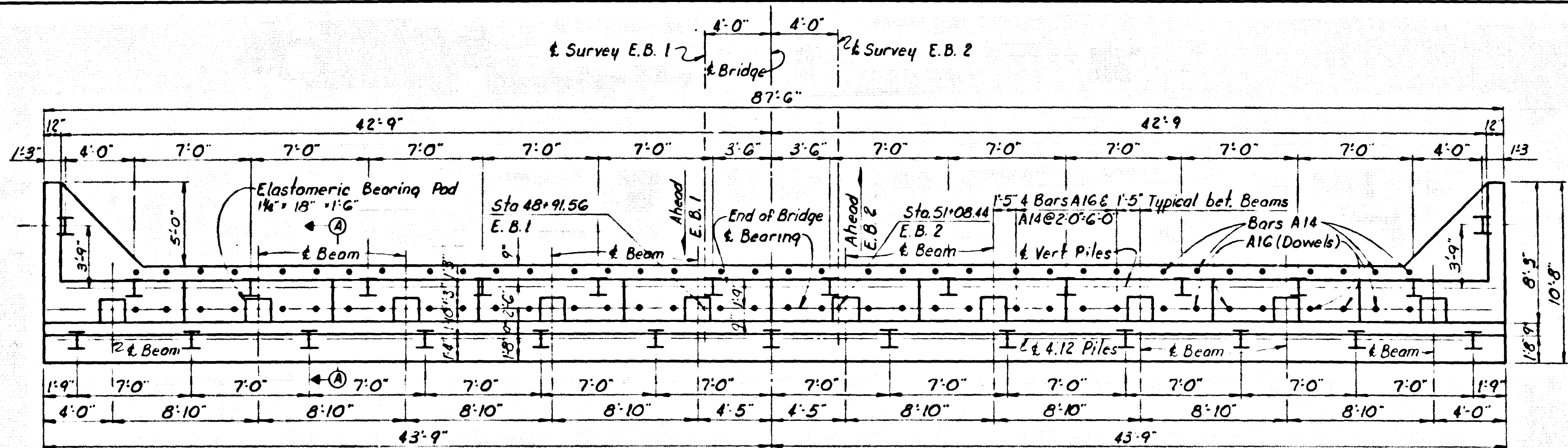
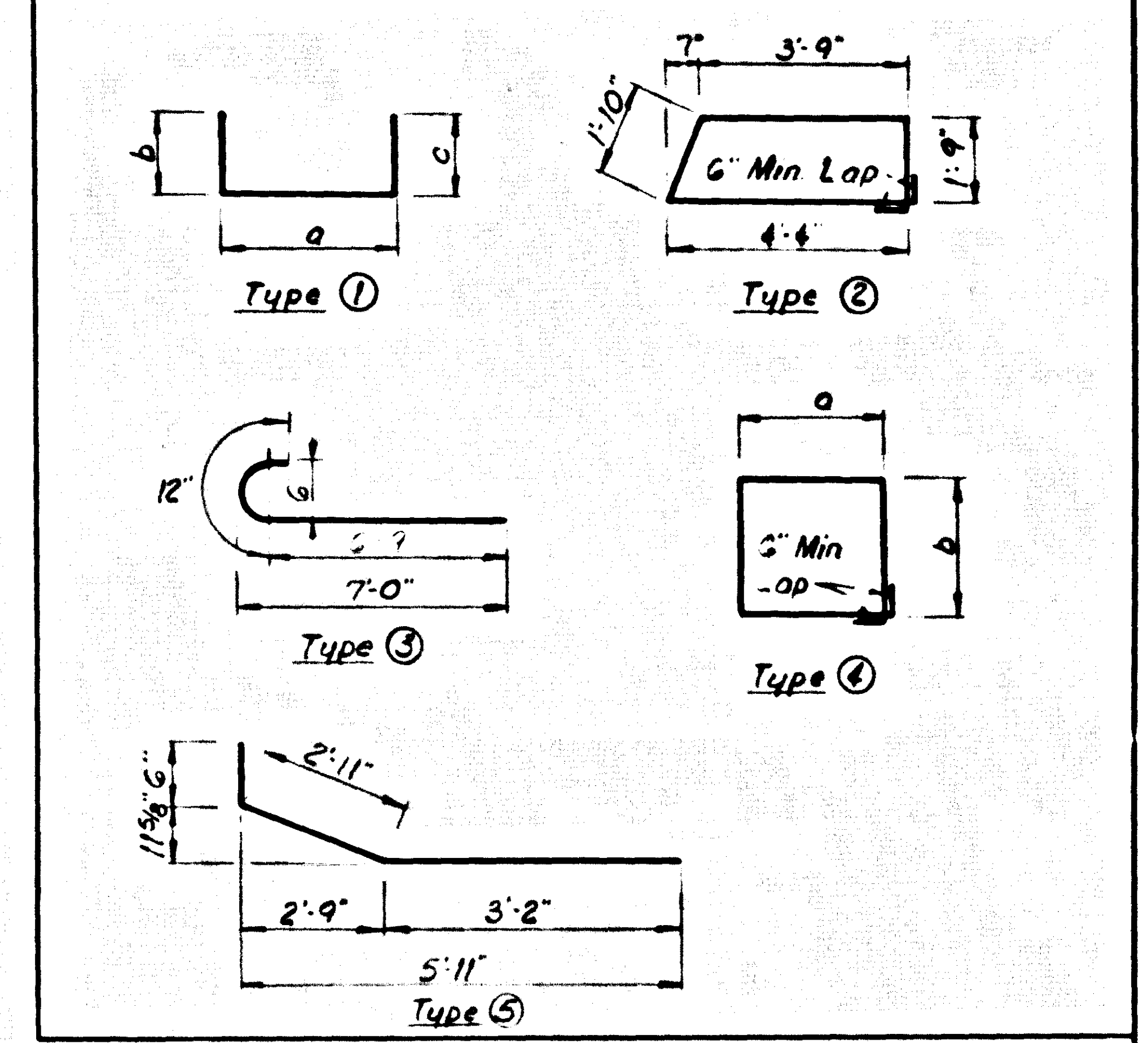


TABLE OF ELEVATIONS

Location	A	B	C	D	E	F	G	H	J	K	L	M	N
End Bent 1	752.27	749.274	754.274	754.73	754.871	755.009	755.147	755.285	755.423	755.561	755.699	755.837	755.975
End Bent 2	753.25	750.249	755.249	755.387	755.525	755.663	755.801	755.939	756.077	756.215	756.353	756.491	756.629

BILL OF REINFORCEMENT

Mark	Type	Number		Length		Location	a		b		c	
		E.B.1	E.B.2	Ft.	In.		Ft.	In.	Ft.	In.	Ft.	In.
A1	①	76	76	5	5	Cap	5	2	0	4	0	4
A2	①	76	76	5	5	"	4	10	0	4	0	4
A3	①	76	76	5	5	"	4	6	0	4	0	4
A4	Str	24	24	5	4	"						
A5	Str	24	24	5	4	"						
A6	②	87	87	5	12	"						
A7	Str	6	6	8	4	"						
A8	③	32	32	6	7	Wing Cap						
A9	④	2	2	5	12	"	1	3	4	8		
A10	④	2	2	5	14	"	2	3	4	8		
A11	④	2	2	5	18	"	4	0	4	8		
A12	④	2	2	5	20	"	5	0	4	8		
A13	Str	9	9	4	20	Risers						
A14	⑤	36	36	5	6	"						
A15	⑤	88	88	4	5	"	2	3	1	7	1	7
A16	Str	36	36	6	2	"						



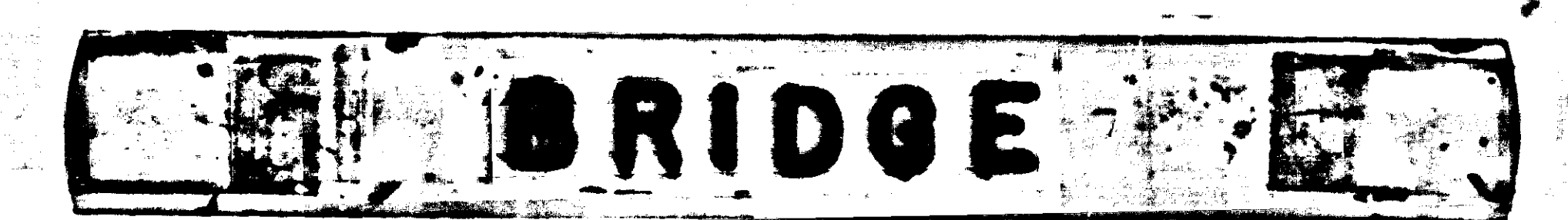
ESTIMATE OF QUANTITIES

Item	Unit	E.B.1	E.B.2
Concrete Class A	Cu. Yds	904	904
Steel Reinforcement	Lbs	6490	6490

Bullion Blvd over US 31-W Sheet 5

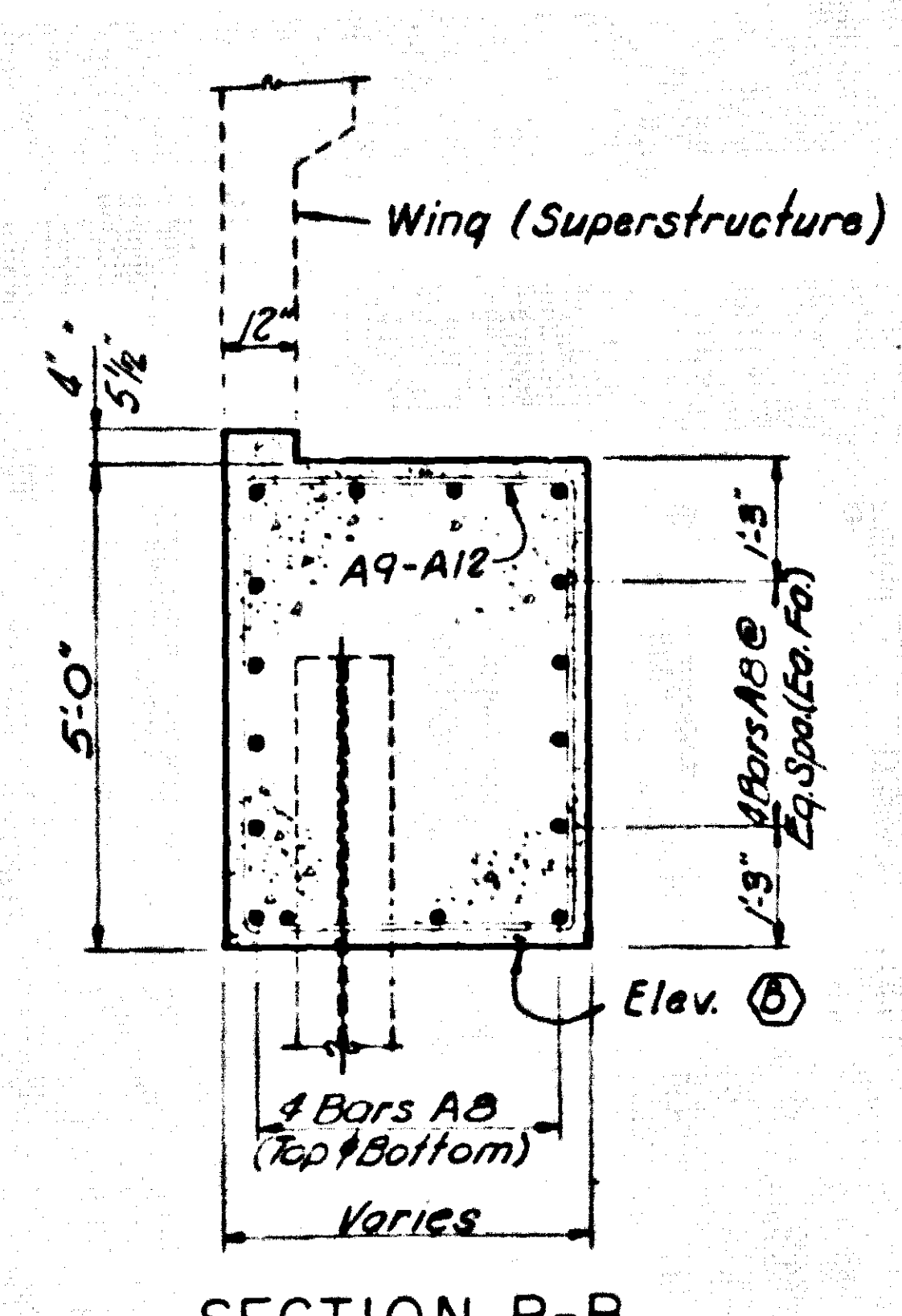
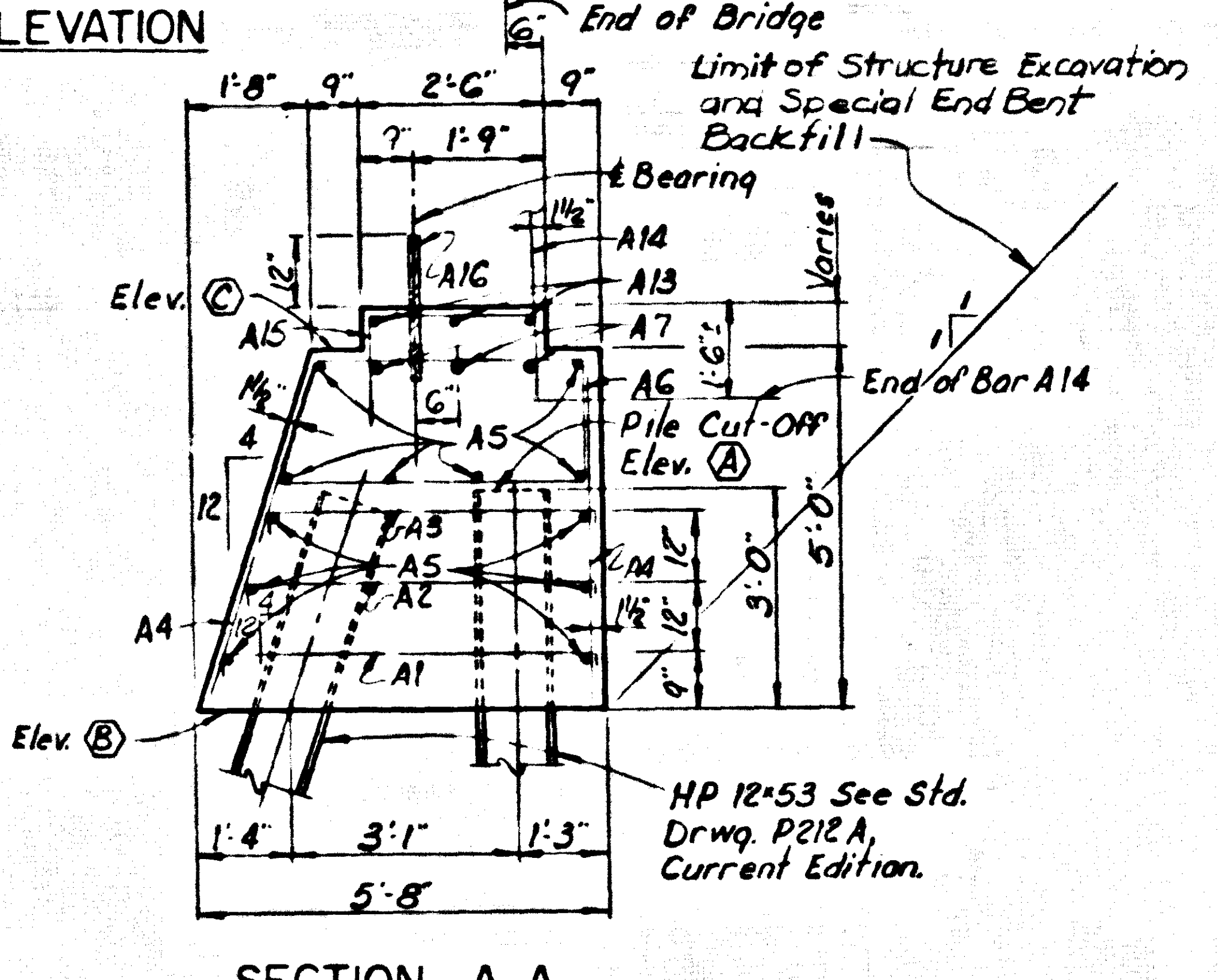
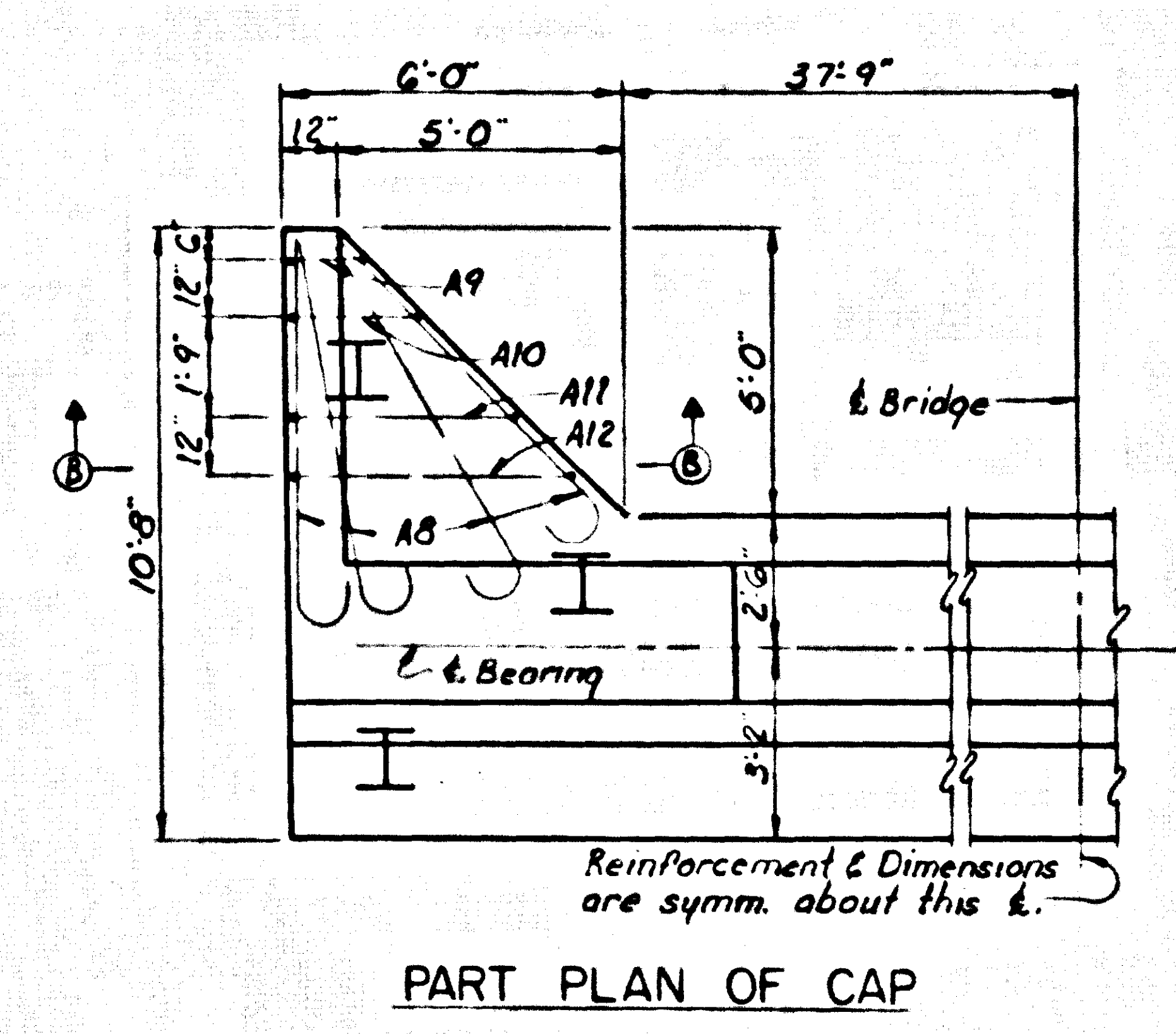
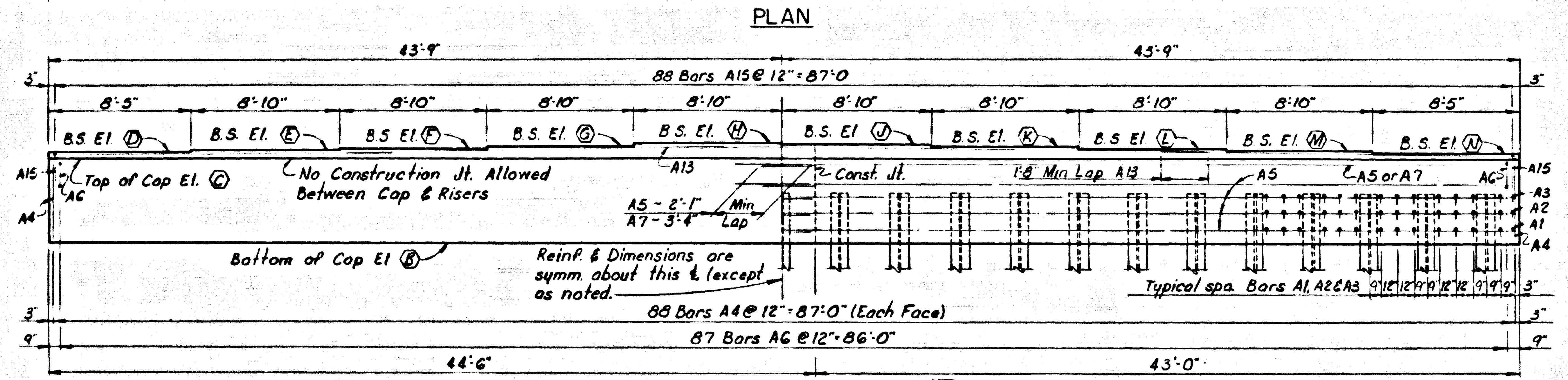
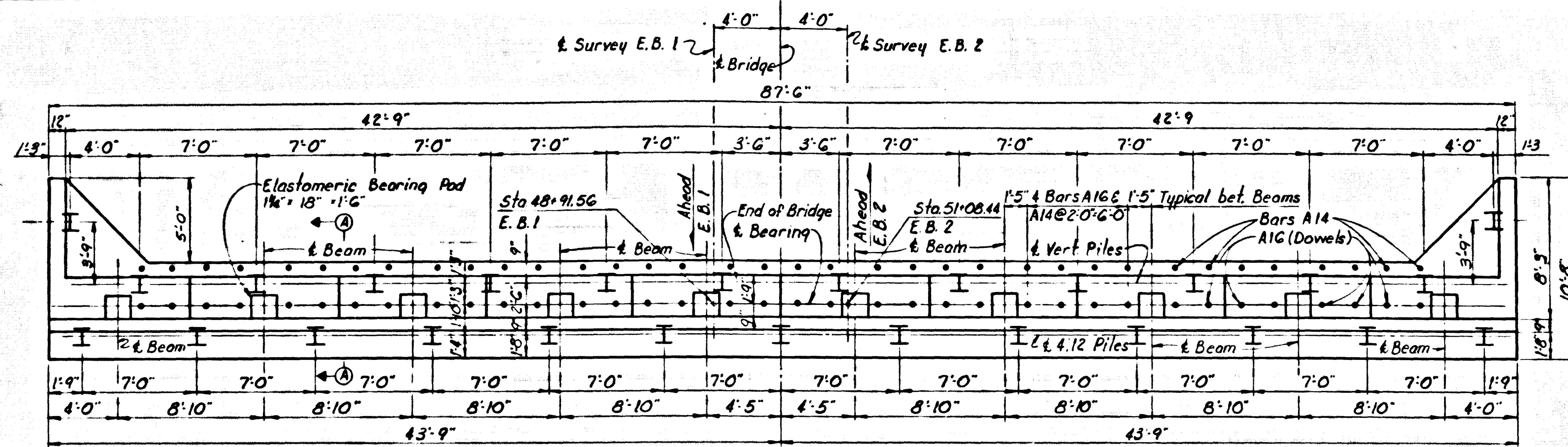
**COMMONWEALTH OF KENTUCKY**  
 DEPARTMENT OF HIGHWAYS  
 FRANKFORT  
 COUNTY OF  
 HARDIN  
 ELIZABETHTOWN - LOUISVILLE  
 ROAD  
 STATION 170+99.08 P. E. PROJECT NO.  
 CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO. 18570

END BENTS 1&2

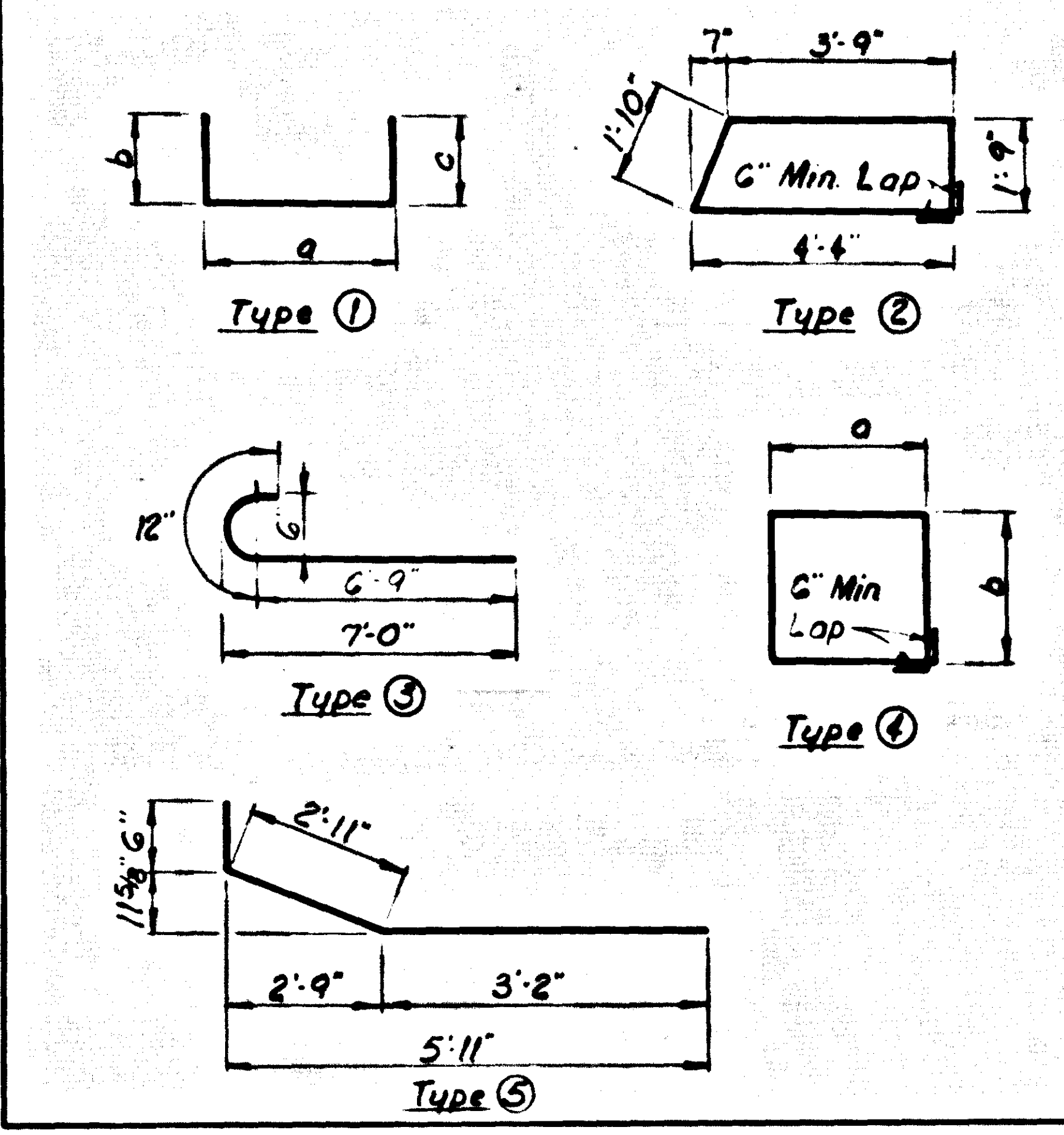




LETTING DATE



BILL OF REINFORCEMENT													
Mark	Type	Number		Size		Length	Location	Quantity					
		E.B.1	E.B.2	Ft.	In.			Ft.	In.	Ft.	In.		
A1	(1)	76	76	#5	5	9	Cap	5	2	0	4	0	4
A2	(1)	76	76	#5	5	5	"	4	10	0	4	0	4
A3	(1)	76	76	#5	5	1	"	4	6	0	4	0	4
A4	Str	176	176	#5	4	9	"						
A5	Str	24	24	#5	4	8	"						
A6	(2)	87	87	#5	12	5	"						
A7	Str	6	6	#8	4	5	"						
A8	(3)	32	32	#6	7	9	Wing Cap						
A9	(4)	2	2	#5	12	7	"	1	3	4	8		
A10	(4)	2	2	#5	14	7	"	2	3	4	8		
A11	(4)	2	2	#5	18	1	"	4	0	4	8		
A12	(4)	2	2	#5	20	1	"	5	0	4	8		
A13	Str	9	9	#4	30	2	Risers						
A14	(5)	36	36	#5	6	7	"						
A15	(1)	88	88	#4	3	4	"	2	3	1	7	1	7
A16	Str	36	36	#6	2	0	"						



ESTIMATE OF QUANTITIES			
Item	Unit	E.B.1	E.B.2
Concrete, Class "A"	Cu. Yds	904	904
Steel Reinforcement	Lbs.	6490	6490

TABLE OF ELEVATIONS													
Location	A	B	C	D	E	F	G	H	J	K	L	M	N
End Bent 1	752.27	749.274	754.274	754.730	754.871	755.009	755.147	755.285	755.160	755.022	754.884	754.746	754.607
End Bent 2	753.25	750.249	755.249	755.582	755.720	755.858	755.993	756.134	756.259	756.121	755.983	755.845	755.707

END BENTS 1&2

Bullion Blvd. over U.S. 31-W Sheet 5

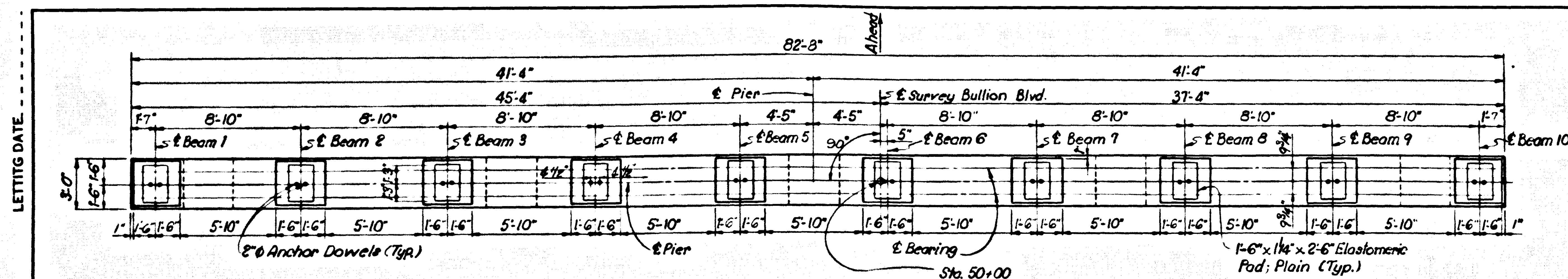
**COMMONWEALTH OF KENTUCKY**  
 DEPARTMENT OF HIGHWAYS  
 FRANKFORT  
 COUNTY OF  
 HARDIN  
 ELIZABETHTOWN - LOUISVILLE  
 ROAD  
 STATION 170+99.08 P. E. PROJECT NO.  
 CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO.  
 18570

**BRIDGE**

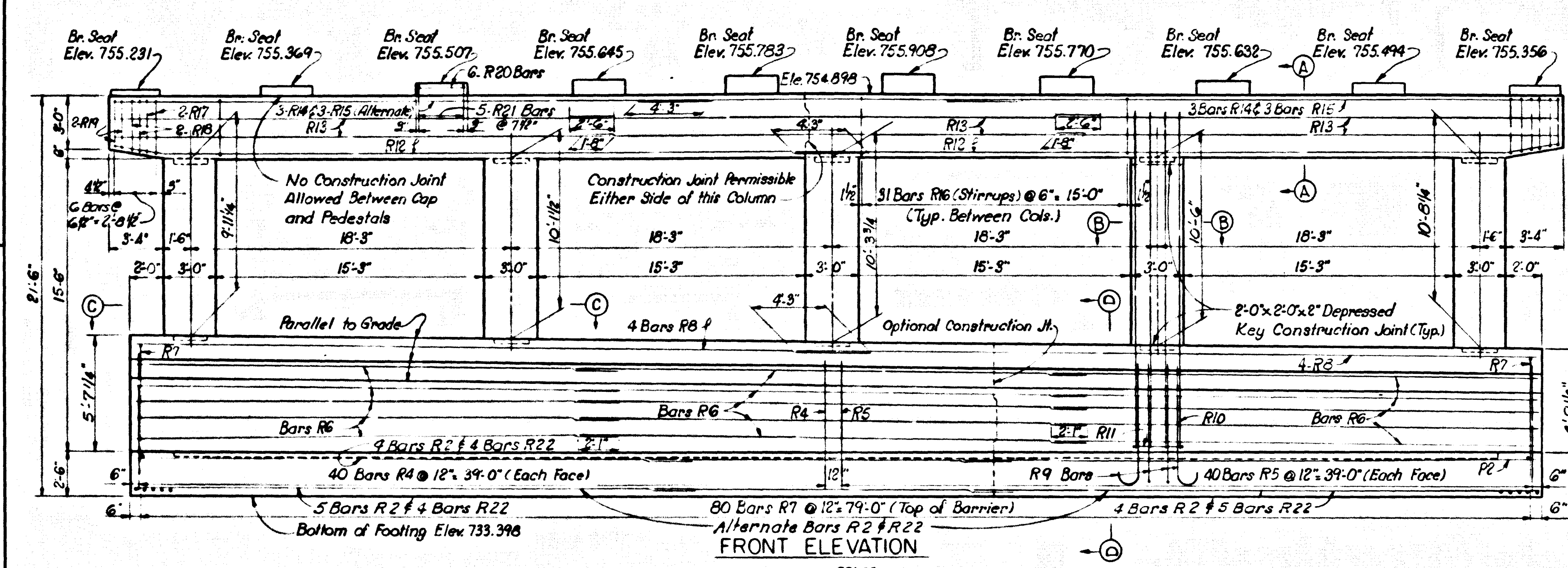




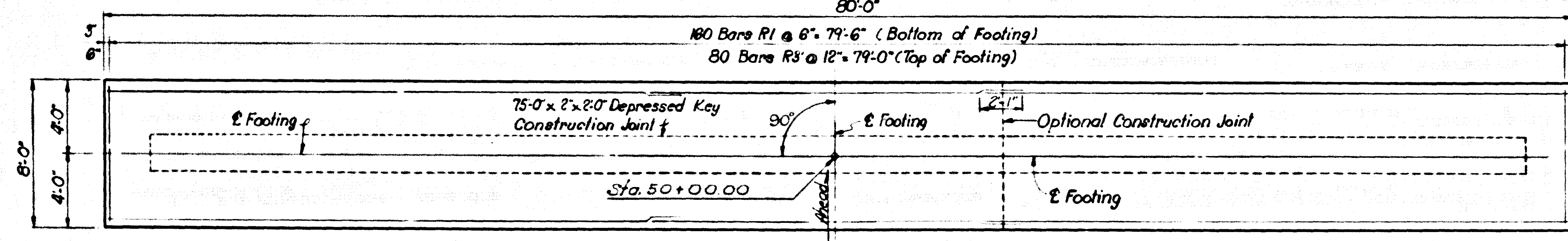




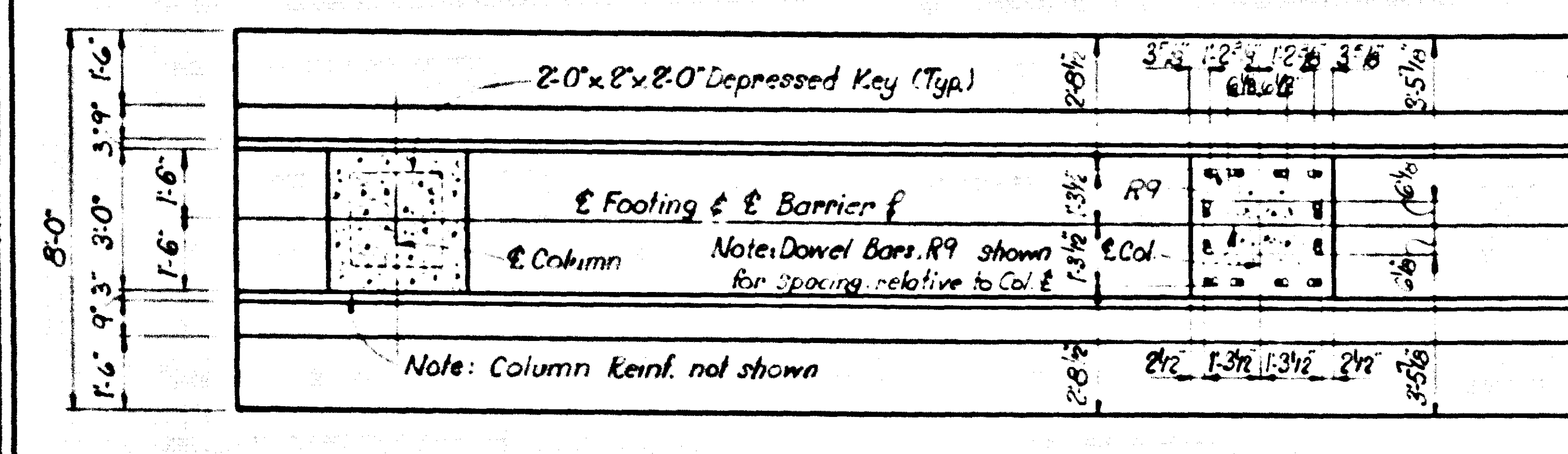
PLAN OF CAP



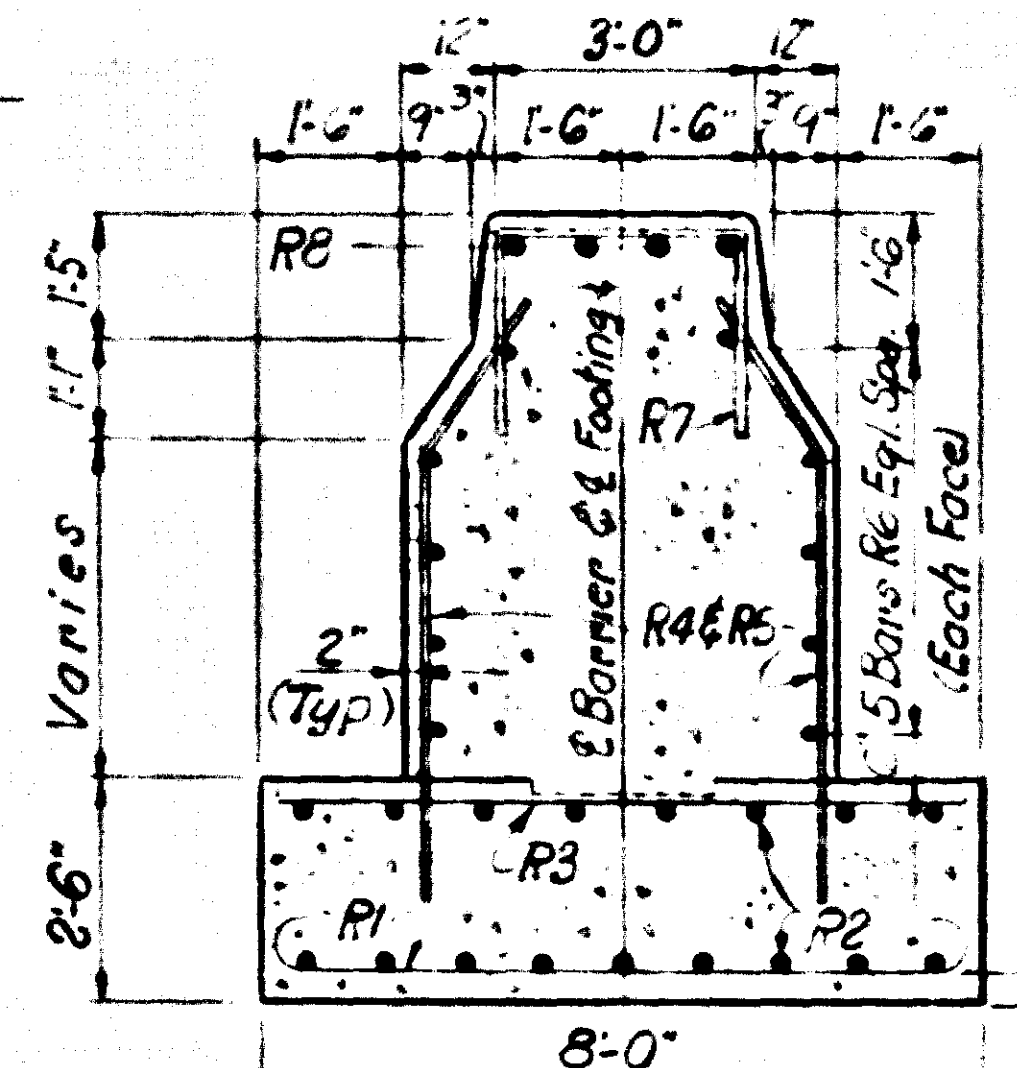
FRONT ELEVATION



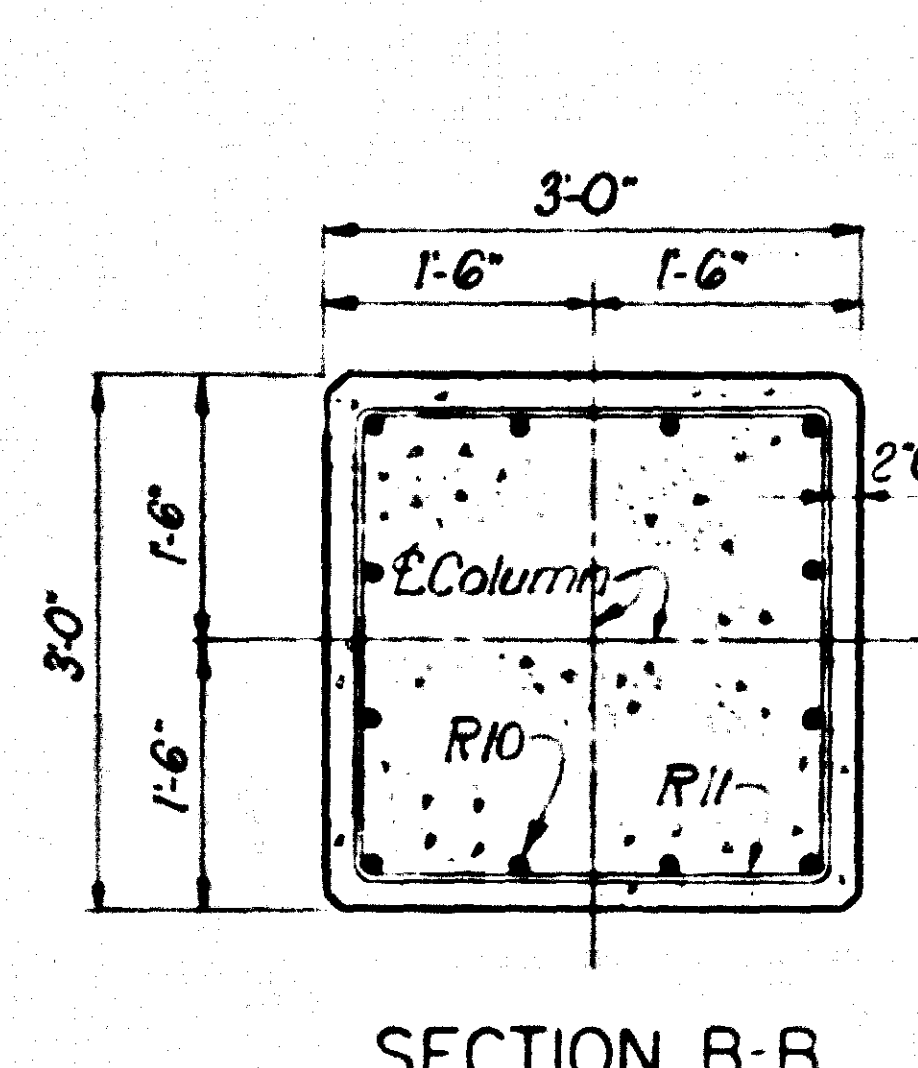
PLAN OF FOOTING



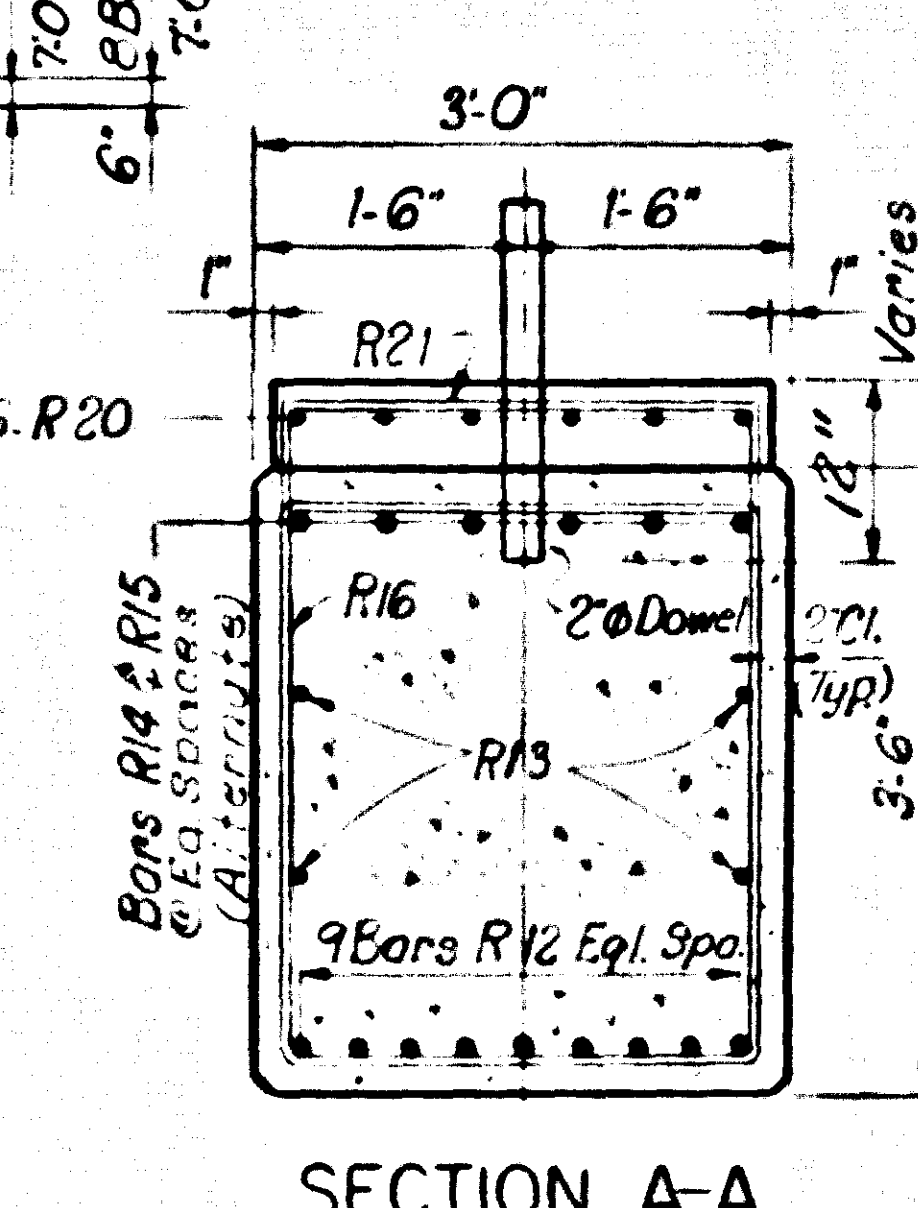
SECTION C-C



SECTION D-D



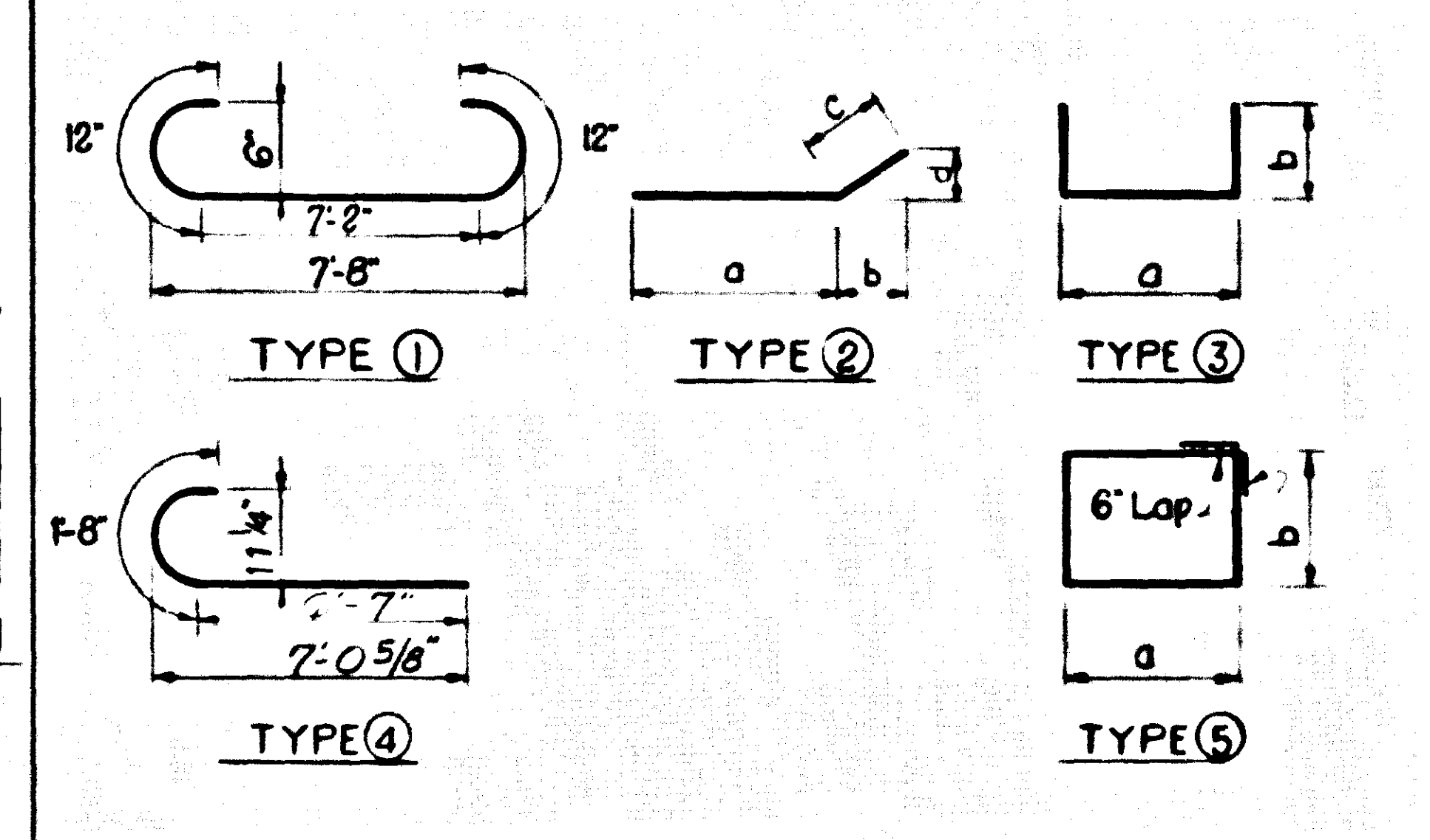
SECTION B-B



SECTION A-A

PIER 2

BILL OF REINFORCEMENT																					
Mark	TYPE	No.	Size	Length	Location	a				b				c				d			
						Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
R1	①	160	#6	9	2	Footings															
R2	Str.	17	#6	32	0																
R3	Str.	80	#6	7	8																
R4	②	80	#6	6	8	Barrier	4	8	1	7 1/2	2	0	1	1/2							
R5	②	80	#6	6	3		4	3	1	7 1/2	2	0	1	1/2							
R6	Str.	30	#5	27	11																
R7	③	80	#5	7	4		2	9	2	4											
R8	Str.	8	#10	42	0																
R9	④	60	#9	8	3	Fig. Dowels															
R10	Str.	60	#9	17	11	Columns															
R11	⑤	80	#4	11	5		2	8	2	8											
R12	②	18	#10	43	4	Cap	40	2	3	1	3	2	0	6							
R13	Str.	12	#4	28	6																
R14	Str.	6	#10	34	2																
R15	Str.	6	#10	52	5																
R16	⑤	24	#6	12	5		2	8	3	2											
R17	⑤	4	#6	12	3		2	8	3	1											
R18	⑤	4	#6	11	11		2	8	2	11											
R19	⑤	4	#6	11	7		2	8	2	9											
R20	Str.	60	#5	2	9	Pedestals															
R21	③	50	#5	6	11		2	8	2	2											
R22	Str.	17	#6	50	2	Footings															



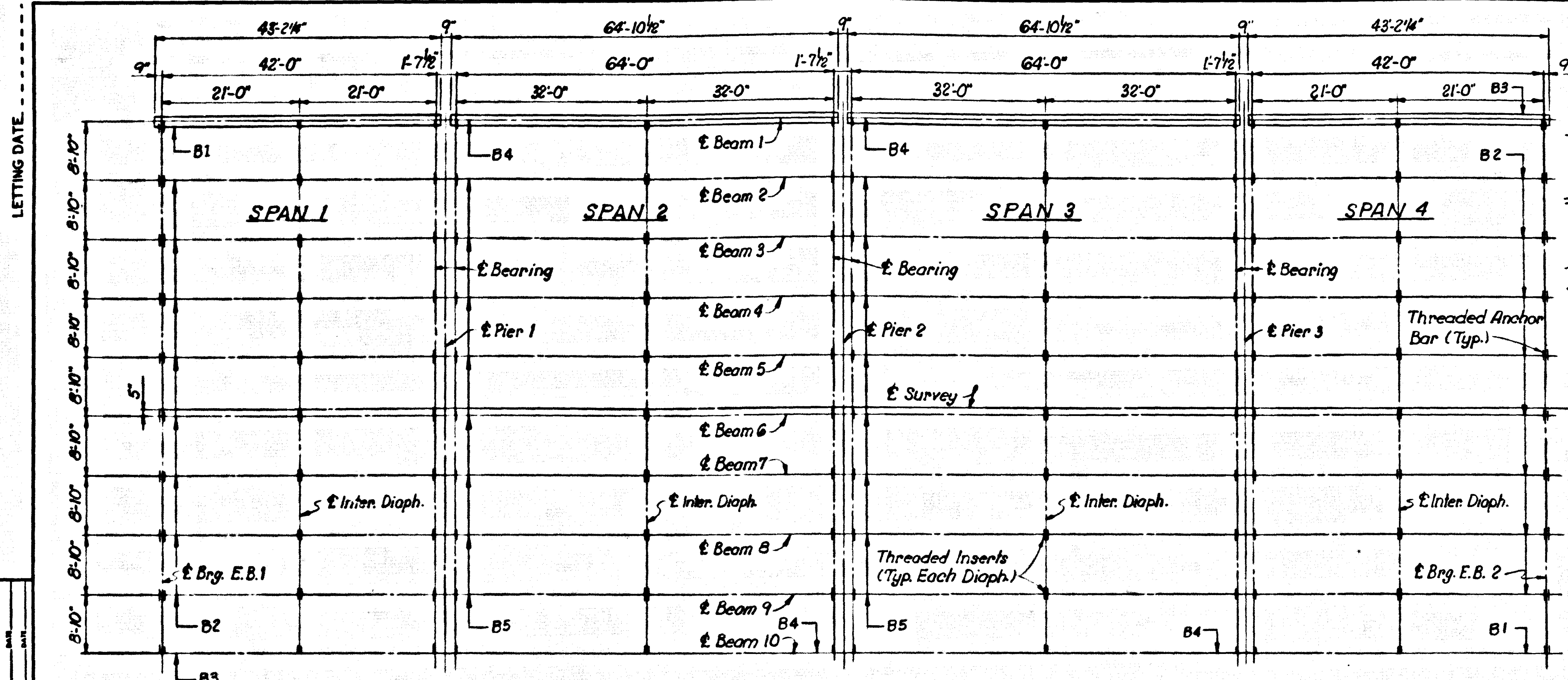
ESTIMATE OF QUANTITIES		
Item	Location	Pier 2
Concrete, Class II	(Cu. Yds.)	175.6
Steel Reinforcement	(Lbs.)	24,534

Station Blvd over US 21W Sta. 17

**COMMONWEALTH OF KENTUCKY**  
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 ROAD  
 STATION 170+99.08 P. E. PROJECT NO.  
 CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO. 1A570

**BRIDGE**

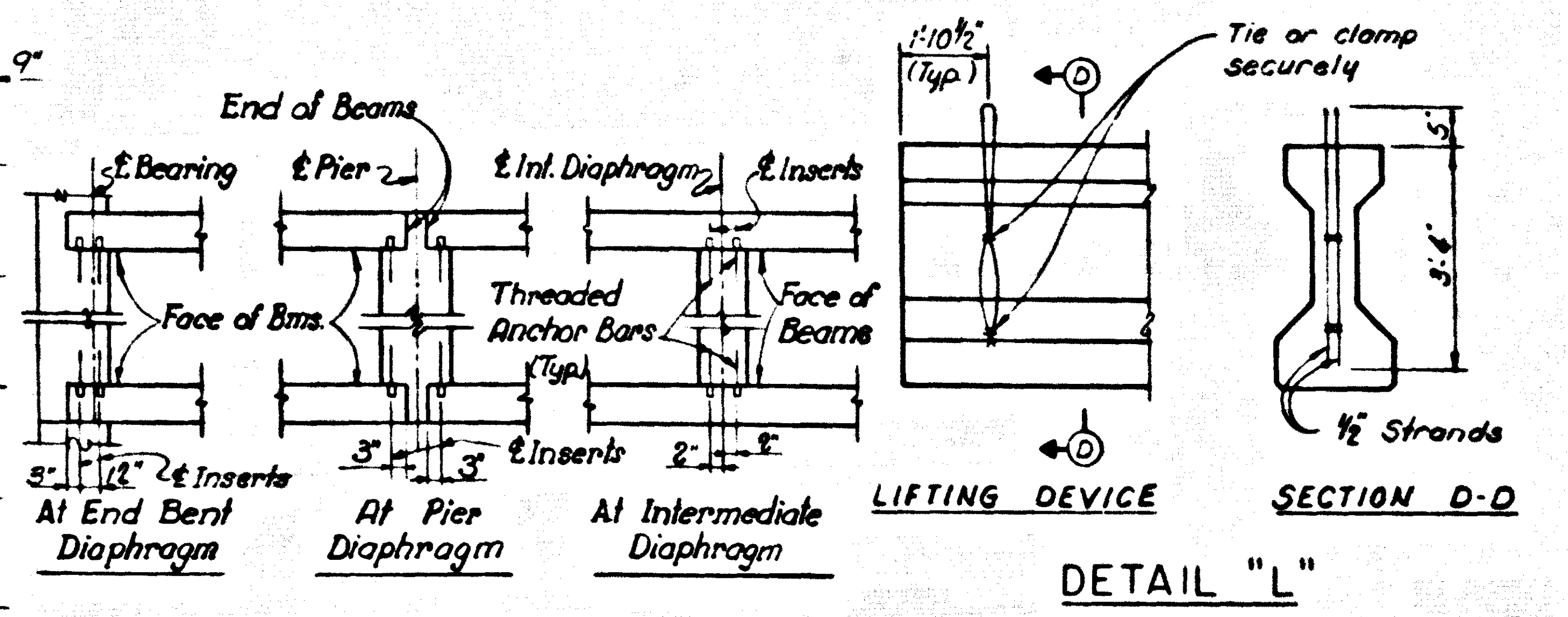




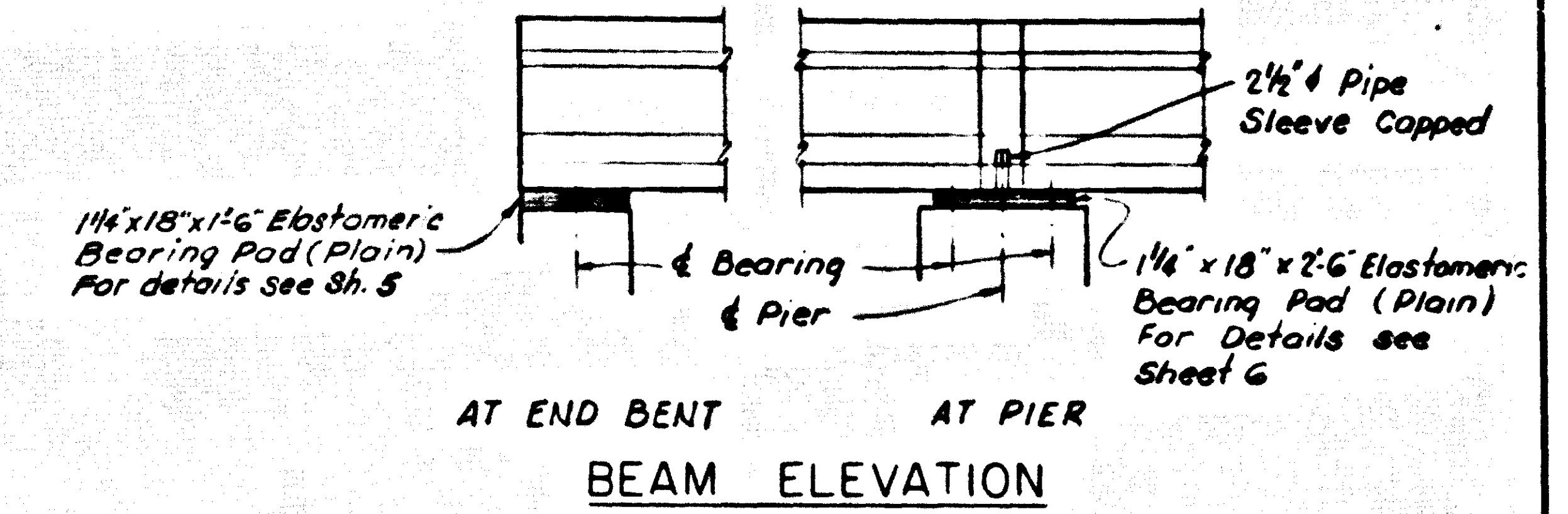
FRAMING PLAN

NUMBER OF 1/2" Ø-7 WIRE STRANDS IN INDICATED ROW										
MARK	MIDSPAN (SECTION B-B)				END (SECTION A-A)				TOTAL NO.	INITIAL PRESTRESS FORCE/STRAND (LBS)
	1	2	3	4	1	2	3	4		
B1	4	4	4	4	4	4	4	4	16	28,917
B2	4	4	4	4	4	4	4	4	16	28,917
B3	4	4	4	4	4	4	4	4	16	28,917
B4	4	4	4	4	4	4	4	4	16	28,917
B5	4	4	4	4	4	4	4	4	16	28,917

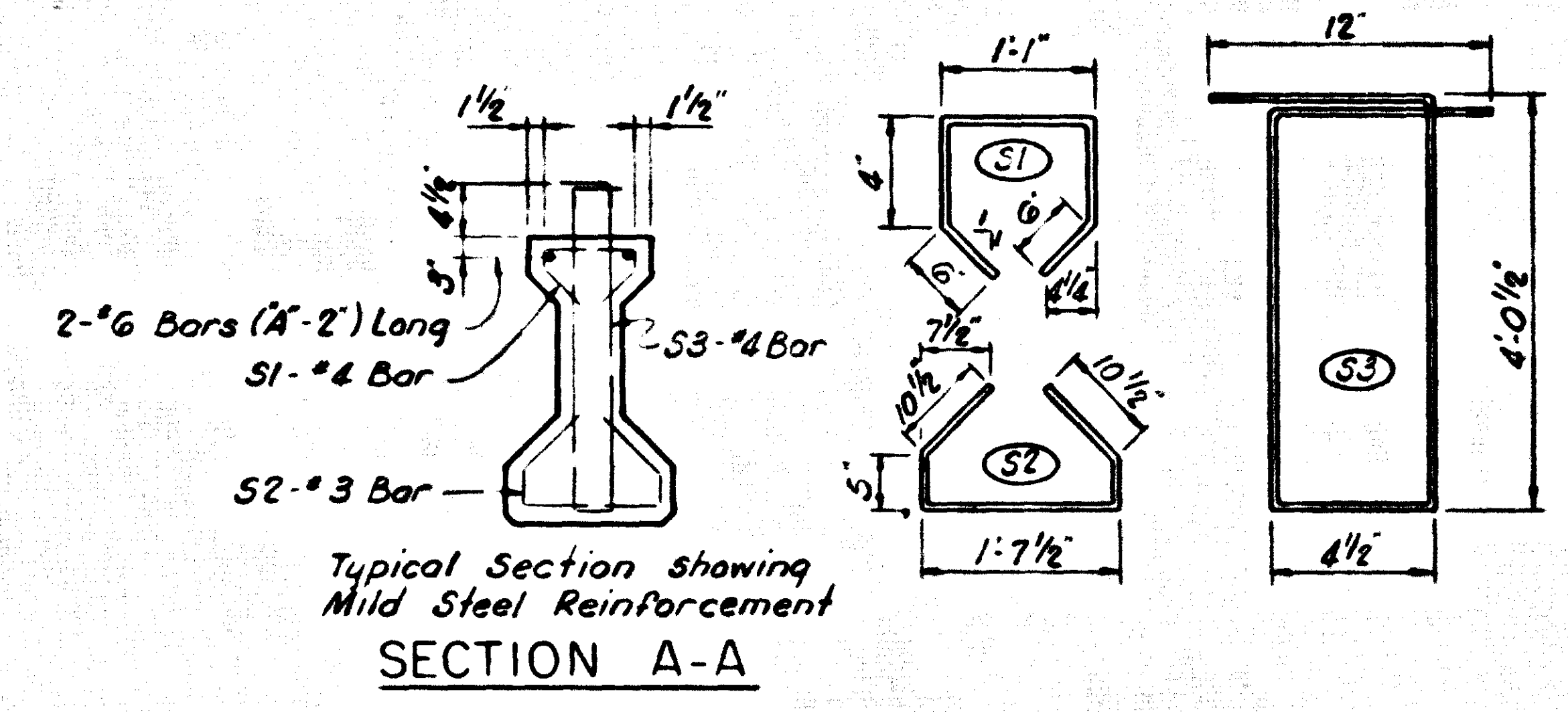
BEAM DIMENSIONS												
MARK	NO. REQD.	DIMENSIONS										APPROX. WT. EACH
		A	B	C	D	E	F	G	H	I	M	
B1	2	43'-2 1/4"	42'-0"	9"	5 1/4"	14'-7 1/2"	14'-0"	9"	15	21"	0	24,535
B2	10	43'-2 1/4"	42'-0"	9"	5 1/4"	14'-7 1/2"	14'-0"	9"	15	21"	0	24,535
B3	2	43'-2 1/4"	42'-0"	9"	5 1/4"	14'-7 1/2"	14'-0"	9"	15	21"	0	24,535
B4	3	64'-10 1/2"	64'-0"	5 1/4"	5 1/4"	21'-9 1/4"	2'-4"	6"	32	15"	0	37,822
B5	10	64'-10 1/2"	64'-0"	5 1/4"	5 1/4"	21'-9 1/4"	2'-4"	6"	32	15"	0	37,822



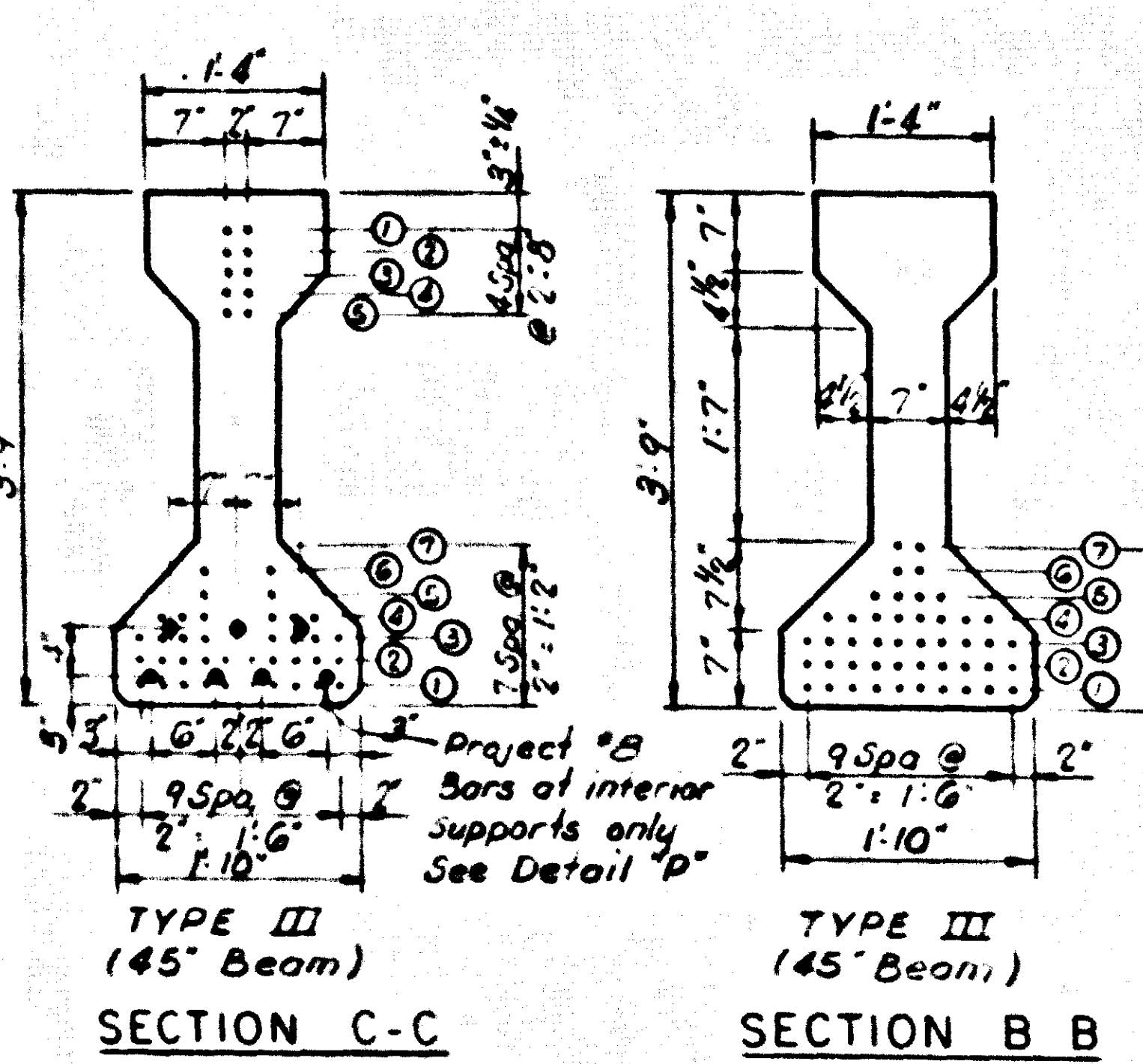
INSERT LOCATION



BEAM ELEVATION

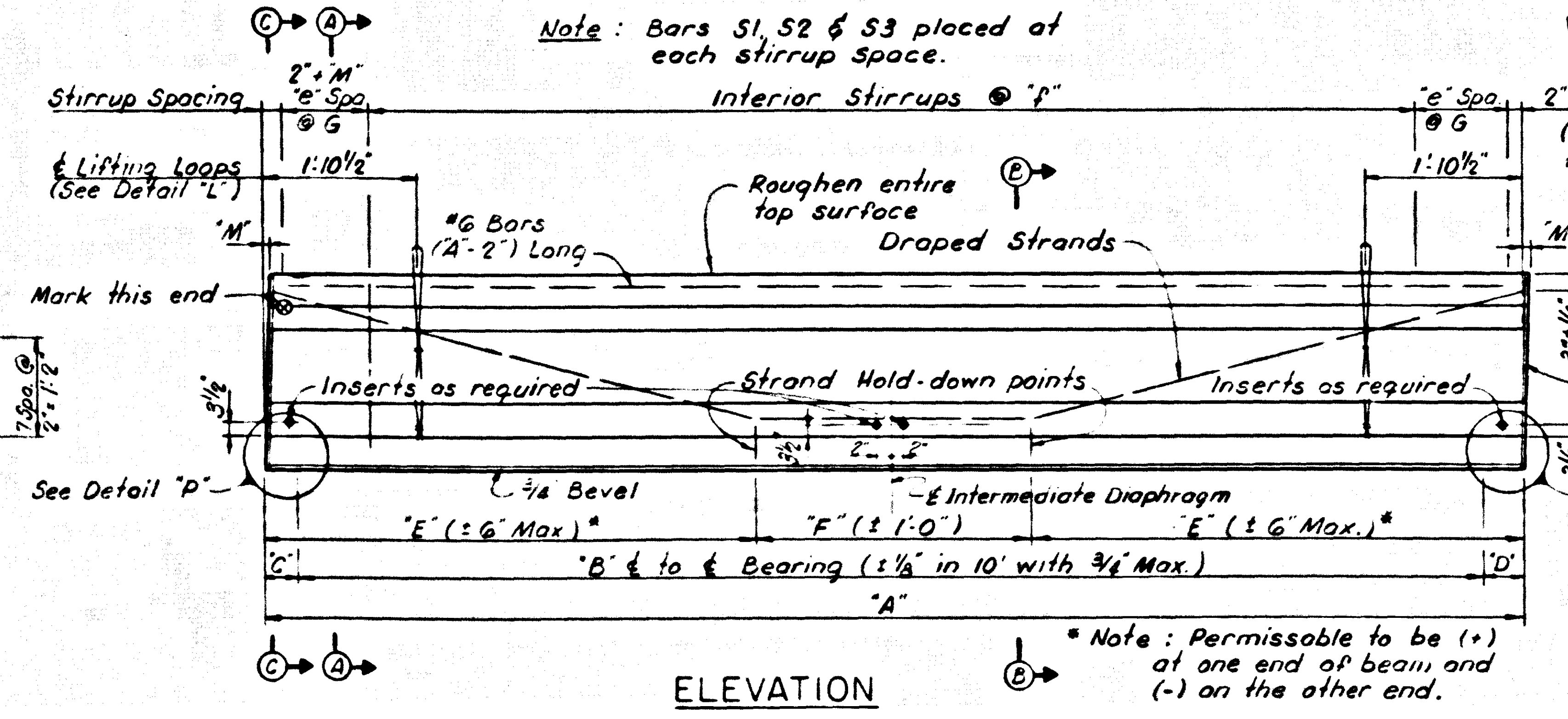


SECTION A-A

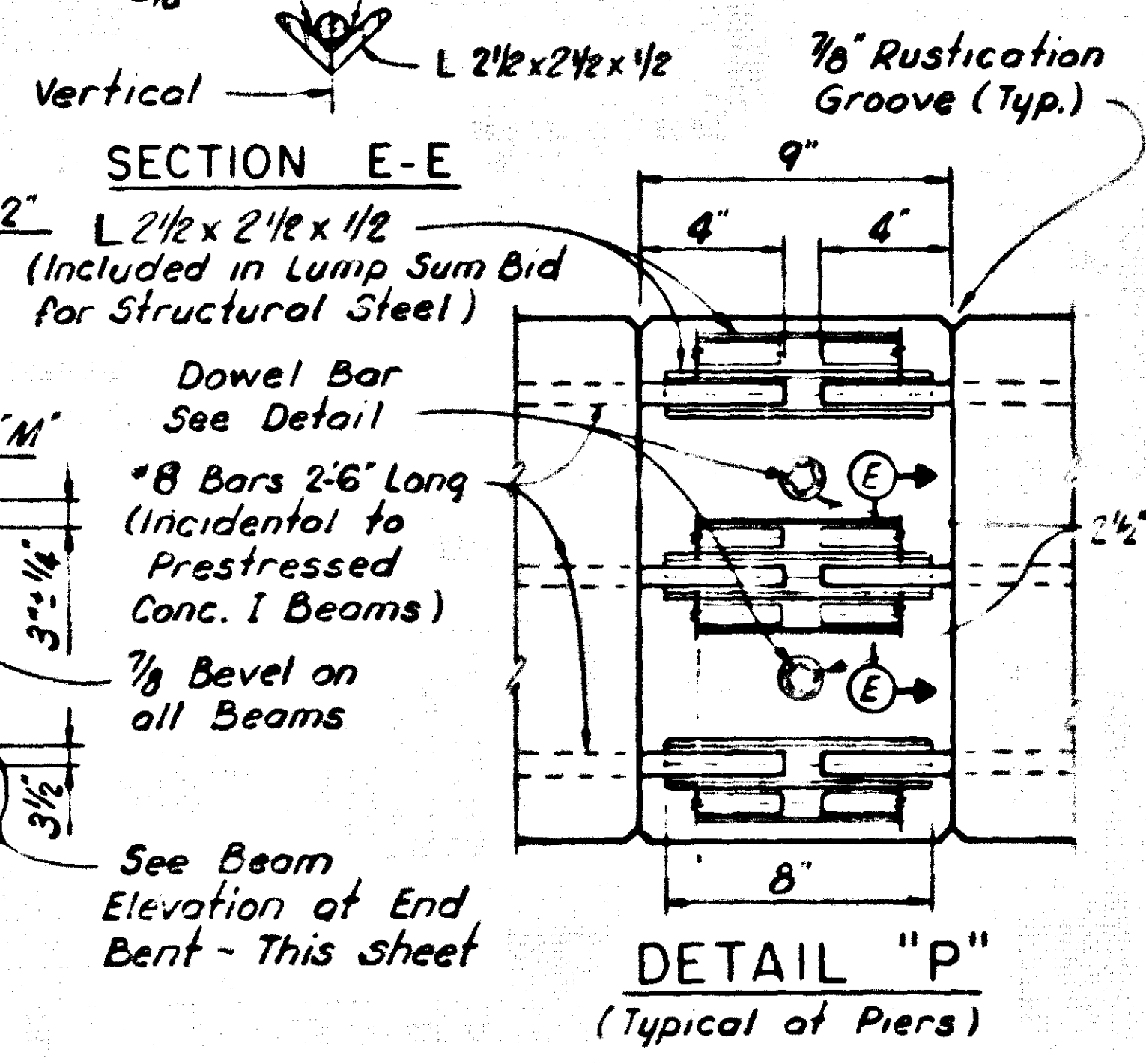


SECTION C-C

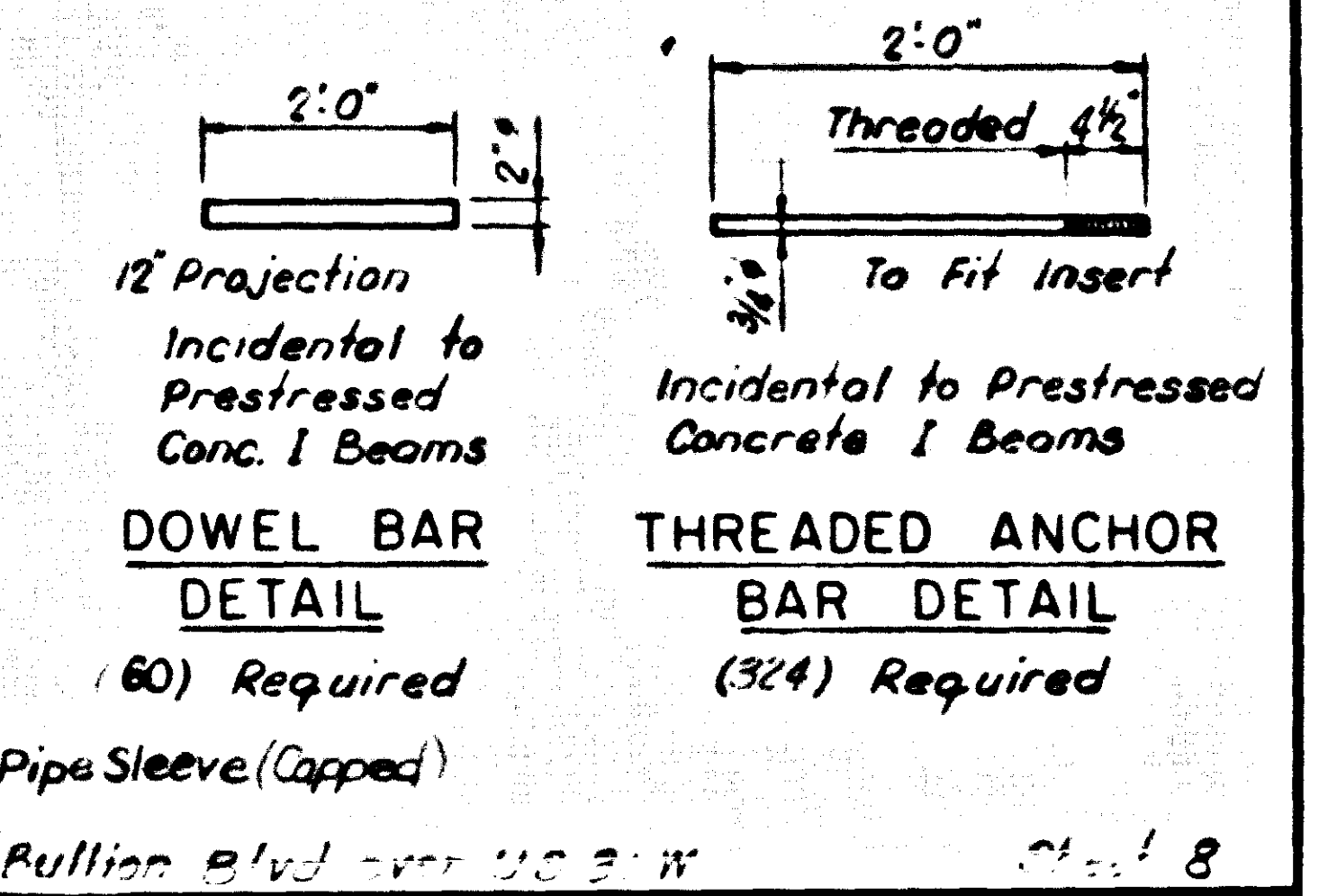
SECTION B-B



ELEVATION



PRESTRESSED CONCRETE I BEAM TYPE III DETAILS



COMMONWEALTH OF KENTUCKY  
 DEPARTMENT OF HIGHWAYS  
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 ROAD  
 STATION 170+99.00  
 P. E. PROJECT NO.  
 CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO. 18570

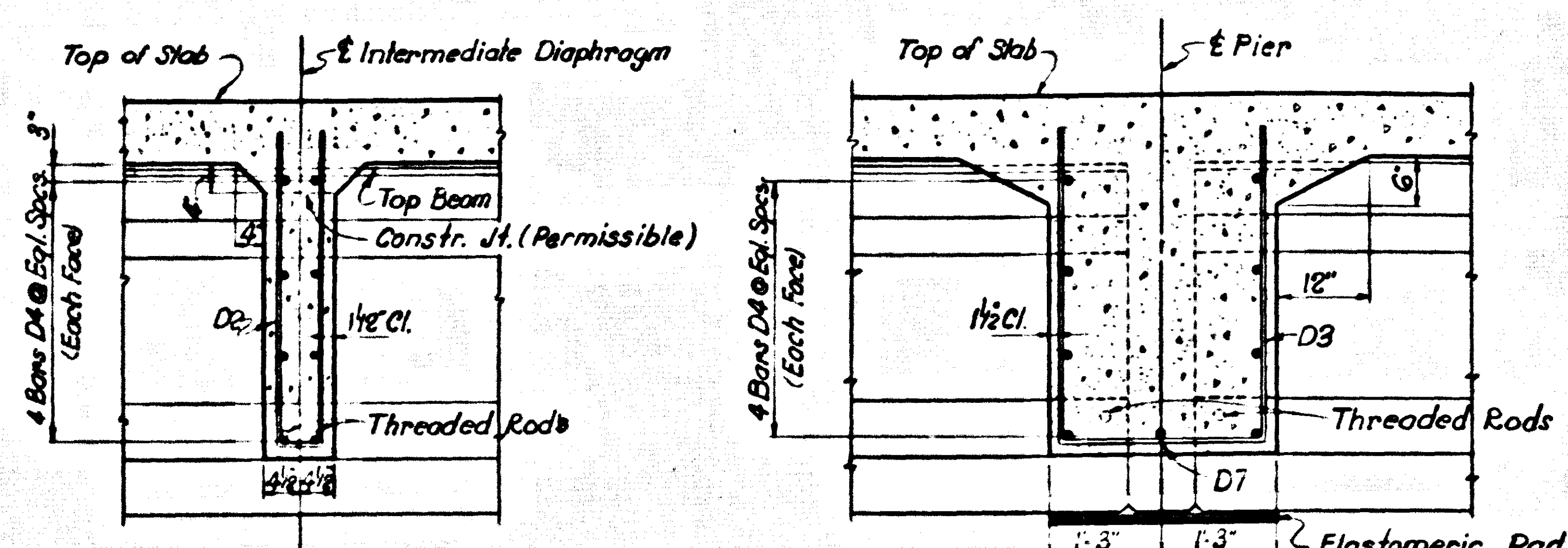
BRIDGE





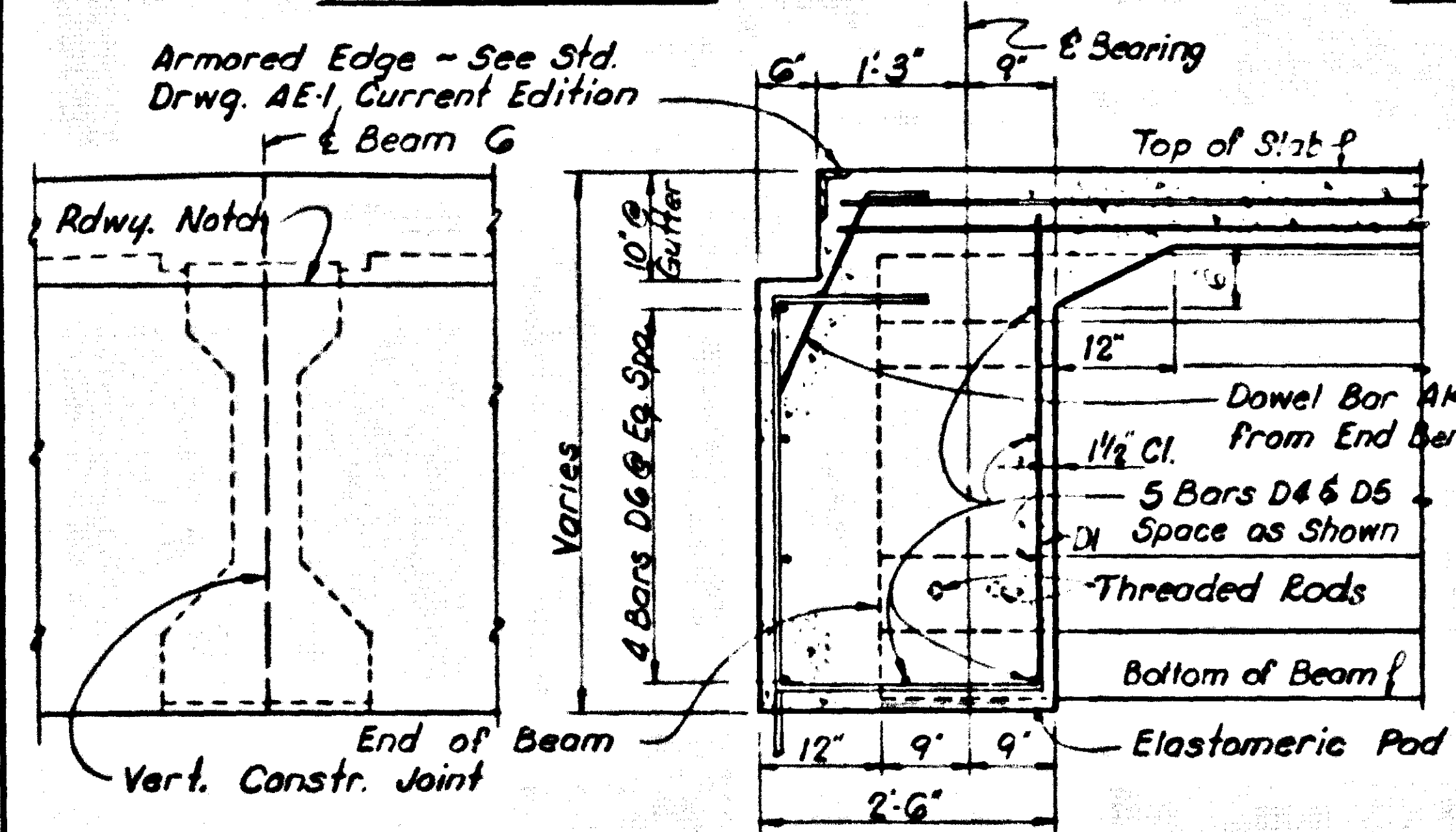


LETTING DATE



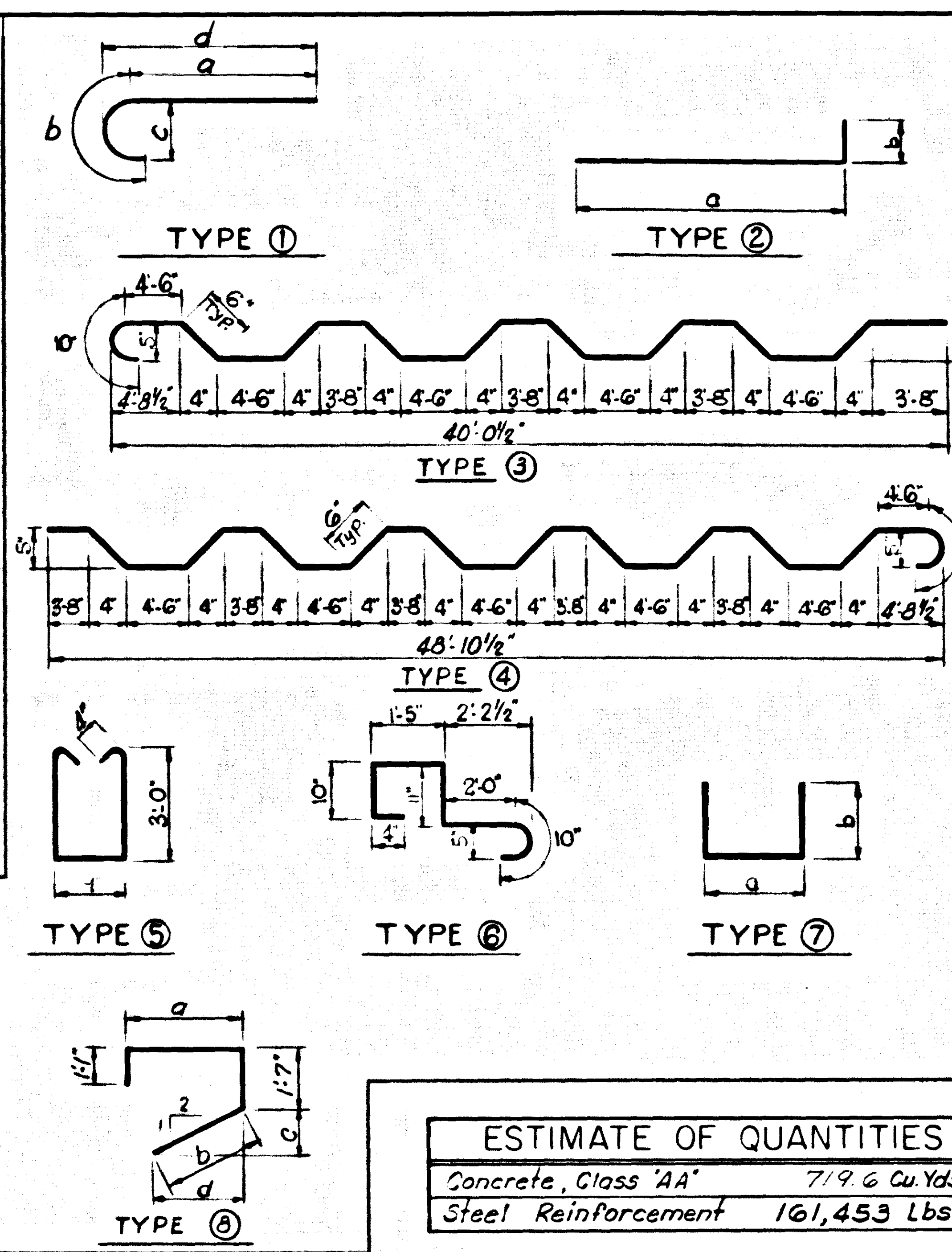
SECTION B-B

SECTION C-C



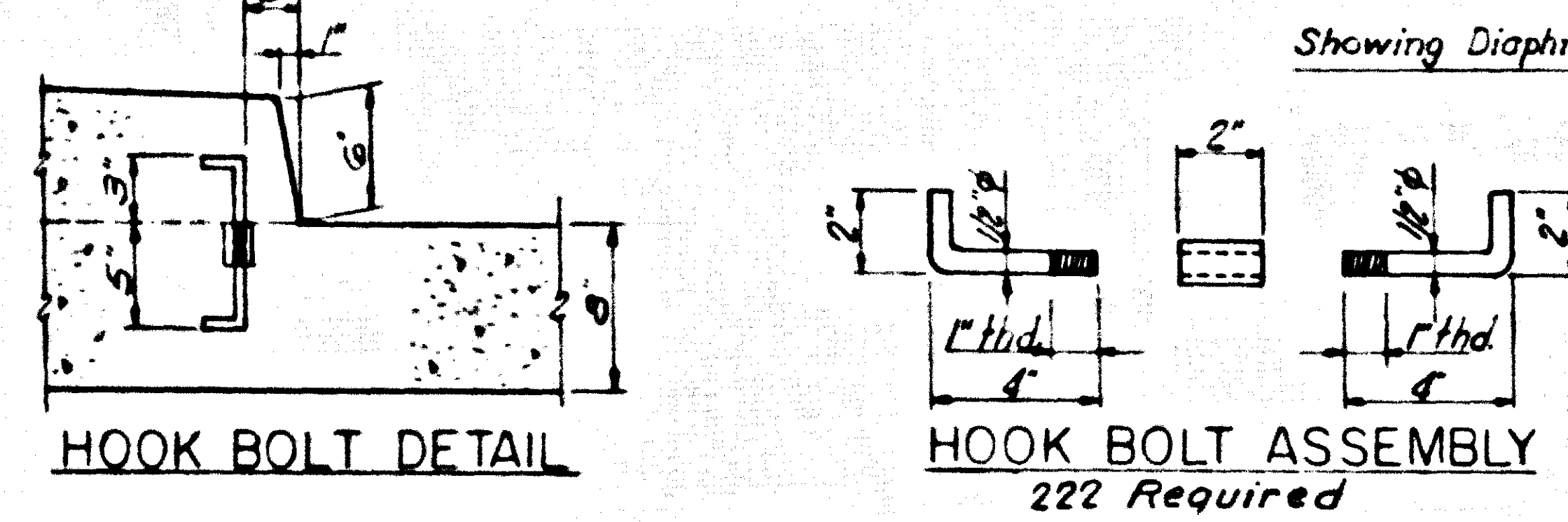
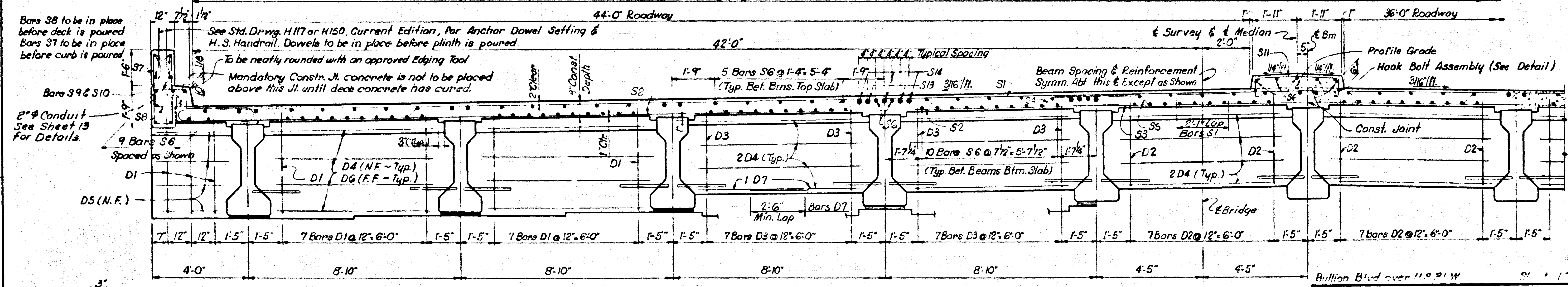
PART ENDWALL ELEV.

SECTION D-D



ESTIMATE OF QUANTITIES	
Concrete, Class "AA"	7,96 Cu. Yds.
Steel Reinforcement	161,453 Lbs.

BILL OF REINFORCEMENT													
Mark.	Type	No.	Bar Size	Length	Location	a		b		c		d	
						Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
S1	①	526	#5	44	3	43	5	0	10	0	5	43	7 1/2
S2	②	263	#5	40	6	39	3	1	3	0	5	43	7 1/2
S3	③	263	#5	49	4	48	1	1	3	0	5	43	7 1/2
S4	④	262	#5	42	8								
S5	⑤	262	#5	51	9								
S6	Str.	840	#5	45	6	Slab, Curbs & Med.							
S7	⑥	480	#5	7	3	Plinth							
S8	⑦	878	#5	6	2	Curb							
S9	Str.	32	#4	27	9	Plinth							
S10	-	32	#4	33	9	Plinth							
S11	Str.	219	#5	3	7	Median							
S12	Str.	60	#6	10	0	Corners of Slab							
S13	-	60	#11	17	0	Top Slab over Bms.							
S14	-	90	#11	26	6	Wing Curb							
S15	⑧	8	#5	4	4	0	11	0	10	0	4 1/2	0	9
S16	⑨	8	#5	4	6	1	0	0	11	0	5	0	9 1/4
S17	⑩	8	#5	4	6	1	1	1	0	5 1/4	0	10 1/4	
S18	⑪	8	#5	4	10	1	2	1	1	0	5 3/4	0	11 1/4
S19	⑫	8	#5	5	0	1	3	1	2	0	6 1/4	1	0 1/2
S20	⑬	12	#8	14	2	12	8	1	6	0	8	13	0
S21	Str.	40	#5	11	8								
S22	-	96	#4	5	1								
D1	⑭	138	#5	10	5	Endwall Diaph.							
D2	⑮	252	#5	7	7	0	6	3	7				
D3	⑯	189	#5	9	4	2	3	3	7				
D4	Str.	594	#6	6	10	Diaphragms							
D5	Str.	20	#6	2	11	Endwall Diaph.							
D6	Str.	24	#5	30	7	Diaph. @ Pier							
D7	Str.	6	#6	30	9	Diaph. @ Pier							



SECTION A-A

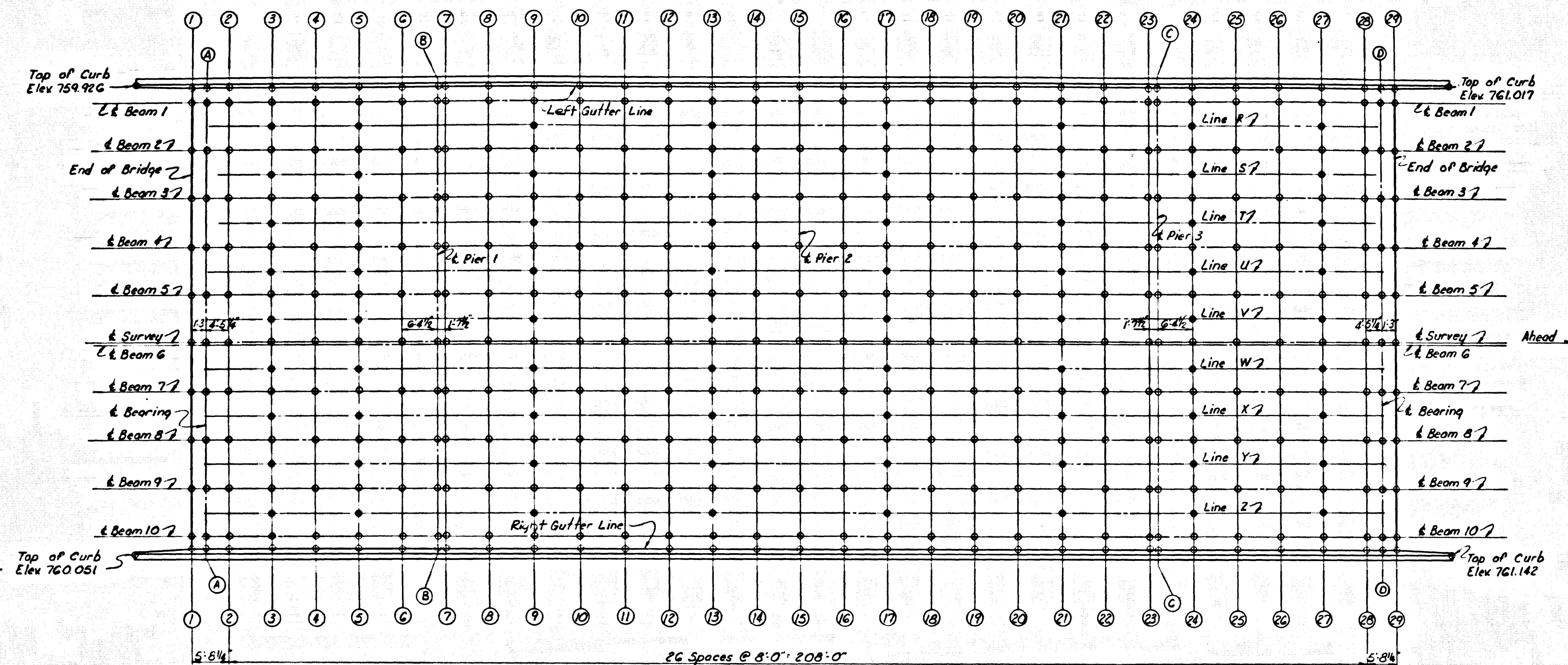
SUPERSTRUCTURE

COMMONWEALTH OF KENTUCKY  
 DEPARTMENT OF HIGHWAYS  
 FRANKFORT  
 COUNTY OF  
 HARDIN  
 ELIZABETHTOWN - LOUISVILLE  
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 P. E. PROJECT NO.  
 STATION 10+40.00  
 CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO. 18570

BRIDGE

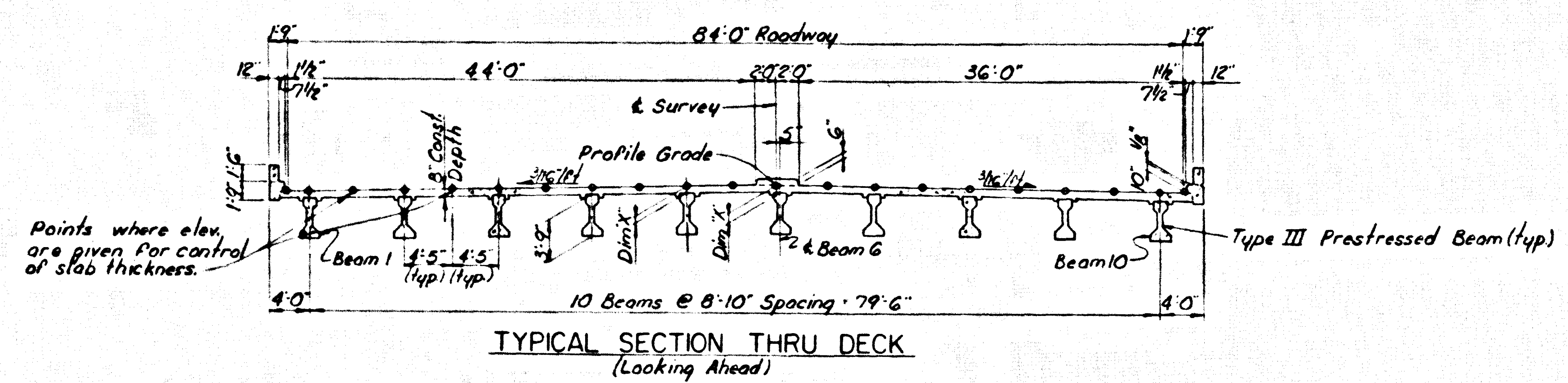


LETTING DATE



PLAN  
(Showing points where elevations are given)

◆ Indicates points where elevations are given  
● Indicates points where elevations are given for control of slab thickness.



TYPICAL SECTION THRU DECK  
(Looking Ahead)

For Table of Elevations see sheet 12

Fullion Blvd over U.S. 31 W Sheet 11

**COMMONWEALTH OF KENTUCKY**  
DEPARTMENT OF HIGHWAYS  
FRANKFORT  
COUNTY OF  
**HARDIN**  
ELIZABETHTOWN-LOUISVILLE  
ROAD

STATION 70+99.08 P. E. PROJECT NO.  
CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO. 18570

CONSTRUCTION ELEVATIONS

**BRIDGE**



TABLE OF ELEVATIONS

Location	Left Gunter Top Conc.	BEAM 1			BEAM 2			BEAM 3			BEAM 4			BEAM 5			t. Survey Top Conc.	BEAM 6			BEAM 7			BEAM 8			BEAM 9			BEAM 10			Right Gunter Top Conc.
		Top Conc.	Top Beam	Dim "X"	Top Conc.	Top Beam	Dim "X"	Top Conc.	Top Beam	Dim "X"	Top Conc.	Top Beam	Dim "X"	Top Conc.	Top Beam	Dim "X"		Top Conc.	Top Beam	Dim "X"	Top Conc.	Top Beam	Dim "X"	Top Conc.	Top Beam	Dim "X"	Top Conc.	Top Beam	Dim "X"	Top Conc.	Top Beam	Dim "X"	
1-1	759.108	759.203			759.341			759.478			759.617			759.755			759.890			759.742			759.604			759.466			759.323			759.293	
A-A	759.177	759.212			759.350			759.488			759.626			759.764			759.895			759.751			759.613			759.475			759.337			759.308	
2-2	759.211	759.247			759.385			759.523			759.661			759.799			759.930			759.786			759.648			759.510			759.372			759.336	
3-3	759.272	759.307			759.445			759.583			759.721			759.859			759.990			759.846			759.708			759.570			759.432			759.397	
4-4	759.327	759.362			759.502			759.640			759.778			759.916			760.046			759.901			759.763			759.625			759.487			759.452	
5-5	759.377	759.412			759.551			759.689			759.827			759.965			760.096			759.952			759.814			759.676			759.538			759.502	
6-6	759.423	759.458			759.596			759.734			759.872			760.010			760.142			759.997			759.859			759.721			759.583			759.548	
B-B	759.457	759.492			759.630			759.768			759.906			760.044			760.176			760.031			759.893			759.755			759.617			759.582	
7-7	759.469	759.505			759.643			759.781			759.919			760.057			760.188			760.044			759.906			759.768			759.630			759.594	
8-8	759.539	759.574			759.712			759.850			759.988			760.126			760.258			760.113			759.975			759.837			759.699			759.664	
9-9	759.603	759.638			759.776			759.914			760.052			760.190			760.322			760.190			760.039			759.901			759.763			759.728	
10-10	759.659	759.694			759.832			759.970			760.108			760.246			760.378			760.233			760.095			759.957			759.819			759.784	
11-11	759.705	759.740			759.878			760.016			760.154			760.292			760.424			760.279			760.141			760.003			759.865			759.830	
12-12	759.741	759.776			759.914			760.052			760.190			760.328			760.460			760.315			760.177			760.039			759.901			759.866	
13-13	759.768	759.803			759.941			760.079			760.217			760.355			760.486			760.342			760.204			760.066			759.928			759.893	
14-14	759.787	759.822			759.960			760.098			760.236			760.374			760.506			760.361			760.223			760.085			759.947			759.912	
15-15	759.803	759.838			759.976			760.114			760.252			760.390			760.522			760.377			760.239			760.101			759.963			759.928	
16-16	759.859	759.894			760.032			760.170			760.308			760.446			760.578			760.433			760.295			760.157			760.019			759.984	
17-17	759.911	759.947			760.085			760.223			760.361			760.499			760.630			760.486			760.348			760.210			760.072			760.036	
18-18	759.957	759.992			760.130			760.268			760.406			760.544			760.675			760.531			760.393			760.255			760.117			760.082	
19-19	759.993	760.028			760.166			760.304			760.442			760.580			760.711			760.567			760.429			760.291			760.153			760.118	
20-20	760.018	760.053			760.091			760.329			760.467			760.605			760.737			760.592			760.454			760.316			760.178			760.143	
21-21	760.034	760.069			760.207			760.345			760.483			760.621			760.753			760.608			760.470			760.332			760.194			760.159	
22-22	760.042	760.077			760.215			760.353			760.491			760.629			760.761			760.616			760.478			760.340			760.202			760.167	
23-23	760.044	760.079			760.217			760.355			760.494			760.632			760.763			760.619			760.481			760.342			760.204			760.169	
C-C	760.047	760.082			760.220			760.359			760.496			760.634			760.765			760.621			760.483			760.345			760.207			760.172	
24-24	760.070	760.105			760.243			760.381			760.519			760.657			760.788			760.644			760.506			760.368			760.230			760.195	
25-25	760.096	760.131			760.269			760.407			760.545			760.683			760.815			760.670			760.532			760.394			760.256			760.221	
26-26	760.118	760.153			760.291			760.429			760.567			760.705			760.836			760.692			760.554			760.416			760.278			760.243	
27-27	760.134	760.169			760.307			760.445			760.583			760.721			760.852			760.708			760.570			760.432			760.294			760.259	
28-28	760.146	760.181			760.319			760.457			760.595			760.733			760.864			760.720			760.582			760.444			760.306			760.271	
D-D	760.151	760.186			760.324			760.462			760.600			760.738			760.869			760.725			760.587			760.449			760.311			760.276	
29-29	760.156	760.191			760.329			760.467			760.606			760.744			760.875			760.731			760.592			760.454			760.316			760.281	

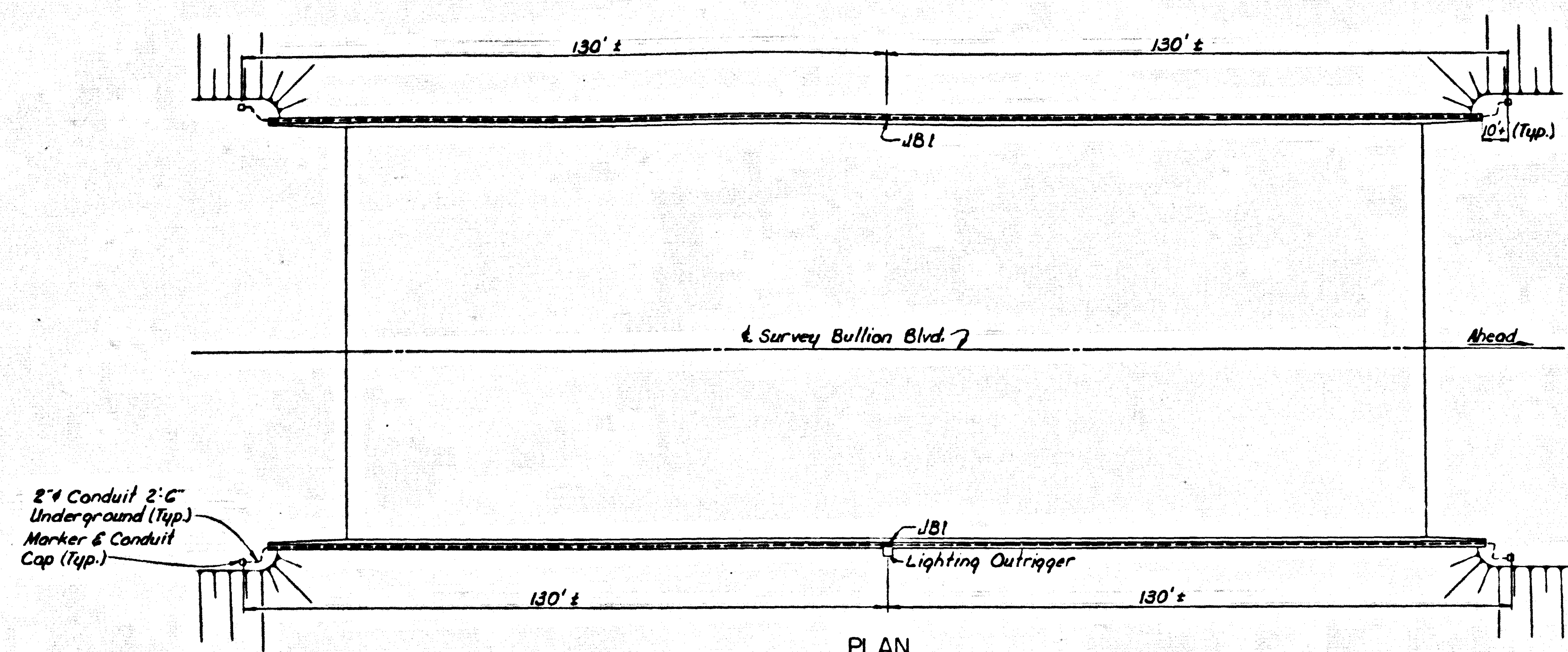
NOTE TAKE ELEVATIONS ON TOP OF BEAM AT POINTS INDICATED BEFORE FORMS FOR CONCRETE SLABS HAVE BEEN PUT IN PLACE READ ELEVATIONS TO THREE DECIMALS USING A TARGET ROD AND ENTER READINGS IN TABLES UNDER TOP OF BEAM ELEVATIONS COMPUTE DIMENSION "X" AS FOLLOWS CONSTRUCTION ELEVATION MINUS TOP OF BEAM ELEVATION EQUALS DIMENSION "X" CONSTRUCTION ELEVATION INCLUDES CAMBER DUE TO HEIGHT OF CONCRETE SLAB CURB PLINTH HANDRAIL AND FUTURE SURFACING MEASURING OF DIMENSION "X" GIVES THE FINAL CHECK ON BEAM TOLERANCES FOR CAMBER BEAR DAMAGE AND ERRORS IN ERECTION THAT PRODUCE REVERSE CAMBERS SAGS AND UNSIGHTLY FASCIA BEAMS FOR SETTING TEMPLATES MEASURE DIMENSION "X" ABOVE TOP OF BEAM FOR TOP OF TEMPLATE DO NOT SET TEMPLATES BY ELEVATIONS. CONSTRUCT HANDRAIL PLINTH TO SIDEWALK GRADE DO NOT ADD CAMBER TO HANDRAIL PLINTH.

TABLE OF ELEVATIONS FOR CONTROL OF SLAB THICKNESS

Point	Plan Elev. Top of Slab	Field Elev. Bottom of Slab	Computed Slab Thickness	Point	Plan Elev. Top of Slab	Field Elev. Bottom of Slab	Computed Slab Thickness	Point	Plan Elev. Top of Slab	Field Elev. Bottom of Slab	Computed Slab Thickness
3R	759.376			9X	760.108			21U	760.552		
3S	759.514			9Y	759.970			21V	760.691		
3T	759.652			9Z	759.832			21W	760.678		
3U	759.790			13R	759.872			21X	760.539		
3V	759.928			13S	760.010			21Y	760.401		
3W	759.915			13T	760.148			21Z	760.263		
3X	759.777			13U	760.285			24R	760.174		
3Y	759.639			13V	760.424			24S	760.312		
3Z	759.501			13W	760.411			24T	760.450		
5R	759.482			13X	760.273			24U	760.588		
5S	759.620			13Y	760.135			24V	760.726		
5T	759.758			13Z	759.997			24W	760.713		
5U	759.896			17R	760.016			24X	760.575		
5V	760.034			17S	760.154			24Y	760.437		
5W	760.021			17T	760.292			24Z	760.299		
5X	759.883			17U	760.430			27R	760.238		
5Y	759.745			17V	760.568			27S	760.376		
5Z	759.607			17W	760.555			27T	760.514		
9R	759.707			17X	760.417			27U	760.652		
9S	759.845			17Y	760.279			27V	760.790		
9T	759.983			17Z	760.141			27W	760.777		
9U	760.121			21R	760.136			27X	760.639		
9V	760.200			21S	760.272			27Y	760.		



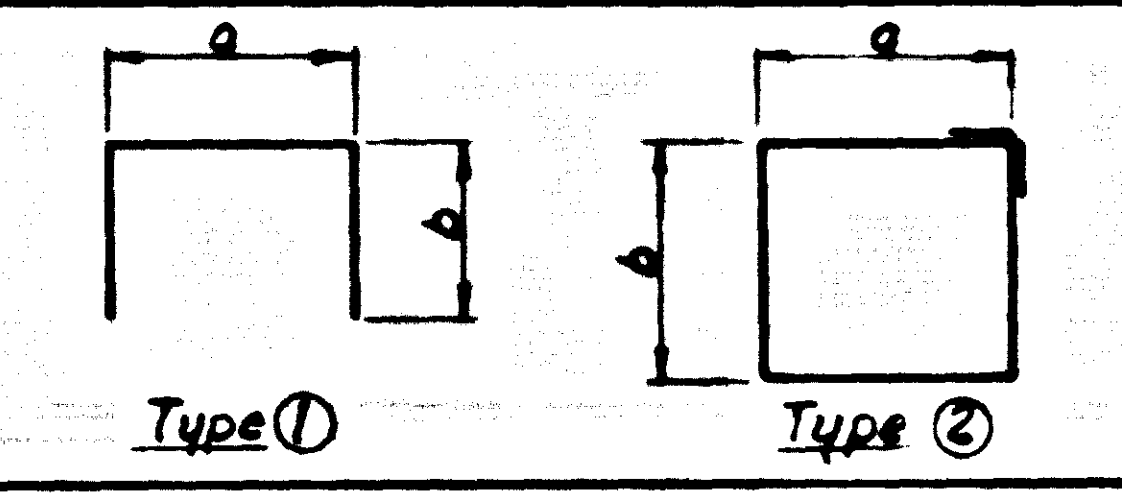
LETTING DATE:



NOTE:  
Markers shall consist of 4"x4"x36" reinforced concrete posts with 4-#4 deformed reinforcing steel per post and a 2" brass disc cast in the end of post inscribed "End of Duct; Markers to be 2" above grade with disc exposed.

BILL OF REINFORCEMENT FOR LIGHTING STD.

Mark	Type	No	Size	Length	Location	a	b
				Ft. In.		Ft. In.	Ft. In.
L1	②	2	#5	11	Outrigger	2	3
L2	②	2	#5	9		1	3
L3	①	5	#5	6		1	2



ESTIMATE OF OUTRIGGER QUANTITIES\*

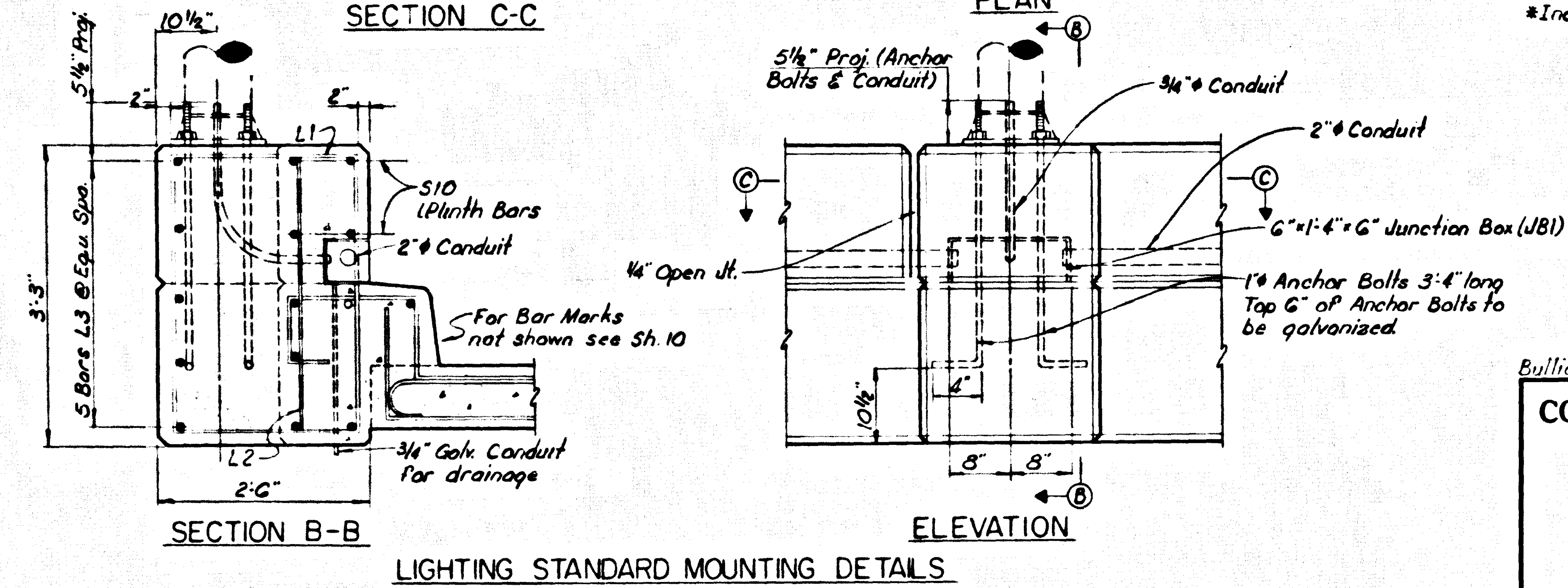
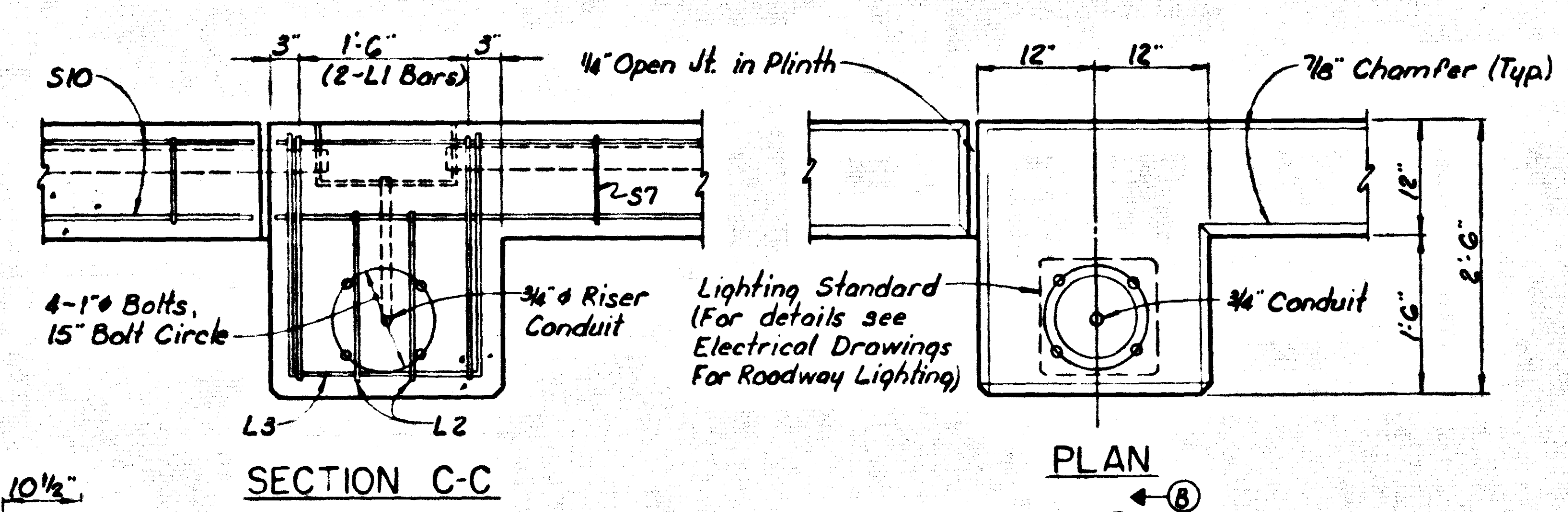
Concrete, Class "AA" (Cu. Yds.)	4
Steel Reinforcement (Lbs.)	75

\*Included in Superstructure Quantities

BILL OF MATERIAL

2" Rigid Galvanized Conduit (Lin. Ft.)	540
Std. 6"x1'-4"x6" Junction Box (JBI) ① (Ea)	2
2" Conduit Connection (Ea)	12
2" Galvanized Cap (Ea)	4
3/4" Conduit (Lin. Ft.)	15
Markers (Ea)	4

- ① a OZ Electric Co., Type YU
- b Spring City Electric Co., Type IR
- c Hope Electric Products Co., Type H 6200
- d Or Approved Equal



LIGHTING STANDARD MOUNTING DETAILS

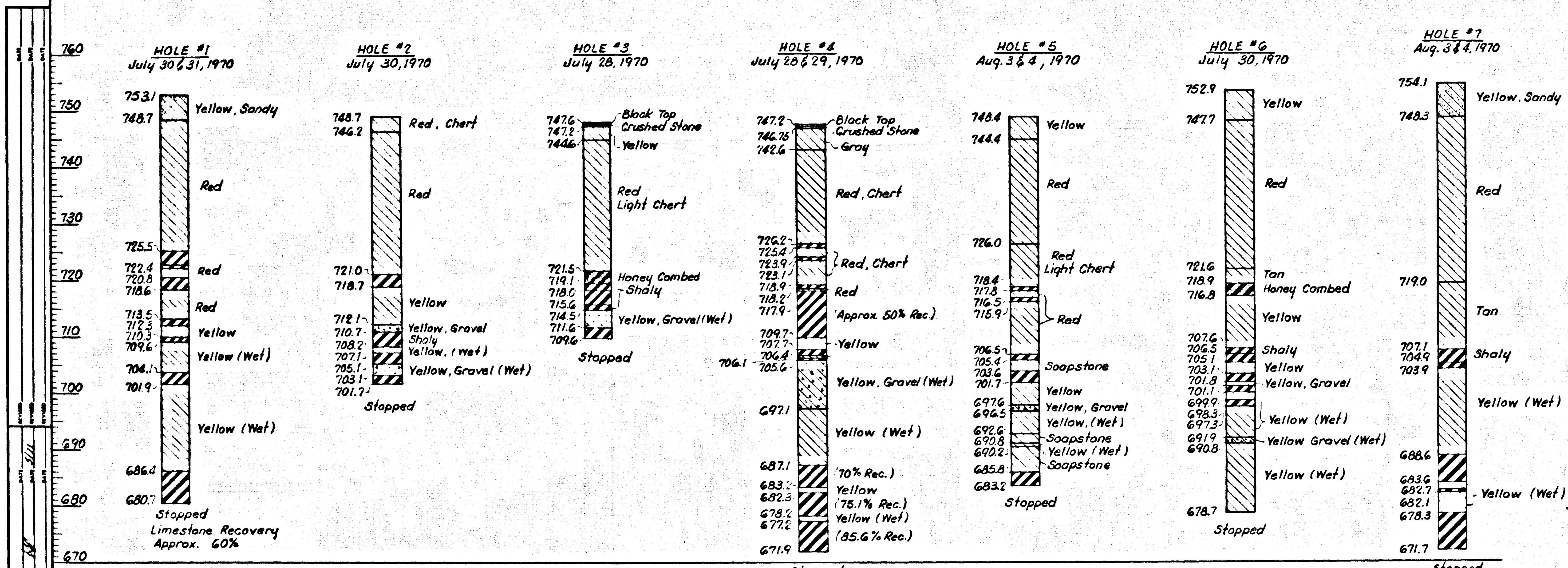
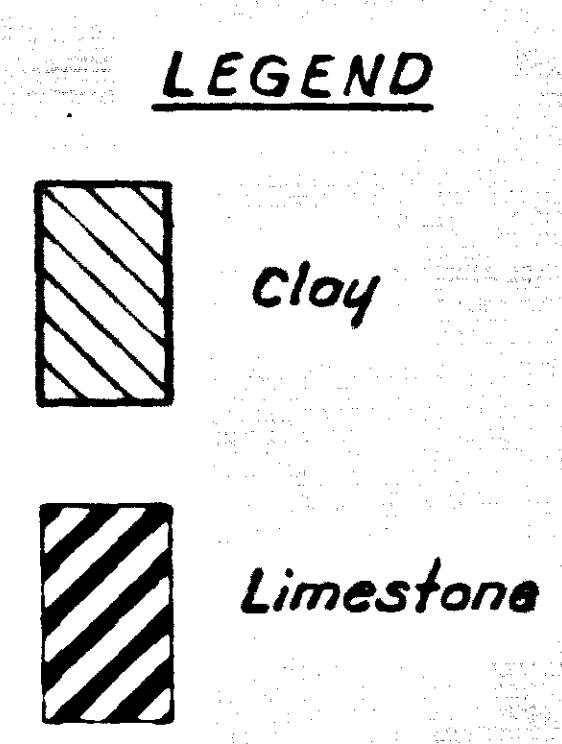
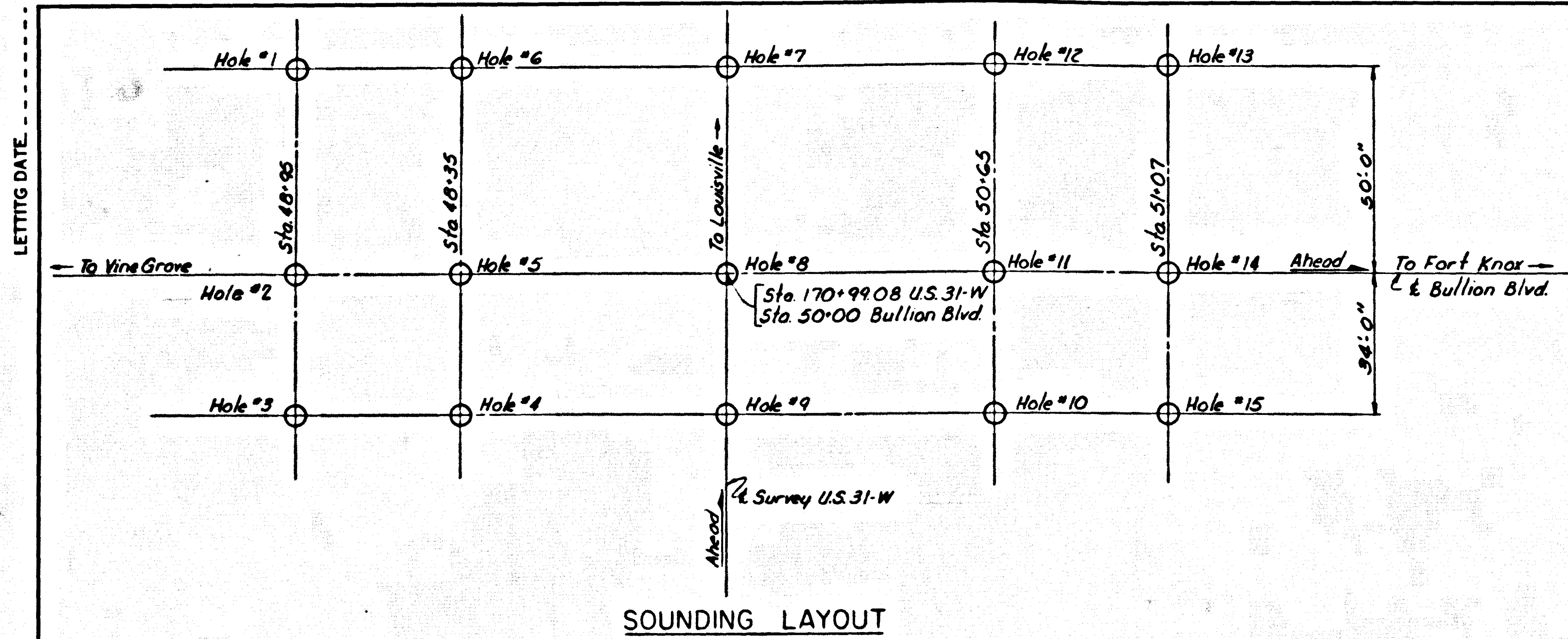
ELECTRICAL CONDUIT

Bullion Blvd over US 31 W Sheet 19

**COMMONWEALTH OF KENTUCKY**  
DEPARTMENT OF HIGHWAYS  
FRANKFORT  
COUNTY OF  
**HARDIN**  
ELIZABETHTOWN - LOUISVILLE  
ROAD  
STATION 170+99.08 P. E. PROJECT NO.  
CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO.  
18570

**BRIDGE**





Soundings made by:  
KENTUCKY DEPARTMENT OF HIGHWAYS

Bullion Blvd over U.S. 31-W Sheet 14

**COMMONWEALTH OF KENTUCKY**  
DEPARTMENT OF HIGHWAYS  
FRANKFORT  
COUNTY OF  
**HARDIN**  
ELIZABETHTOWN - LOUISVILLE  
ROAD

STATION 170+99.08 P. E. PROJECT NO.  
CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO.  
18570

SOUNDINGS

**BRIDGE**



