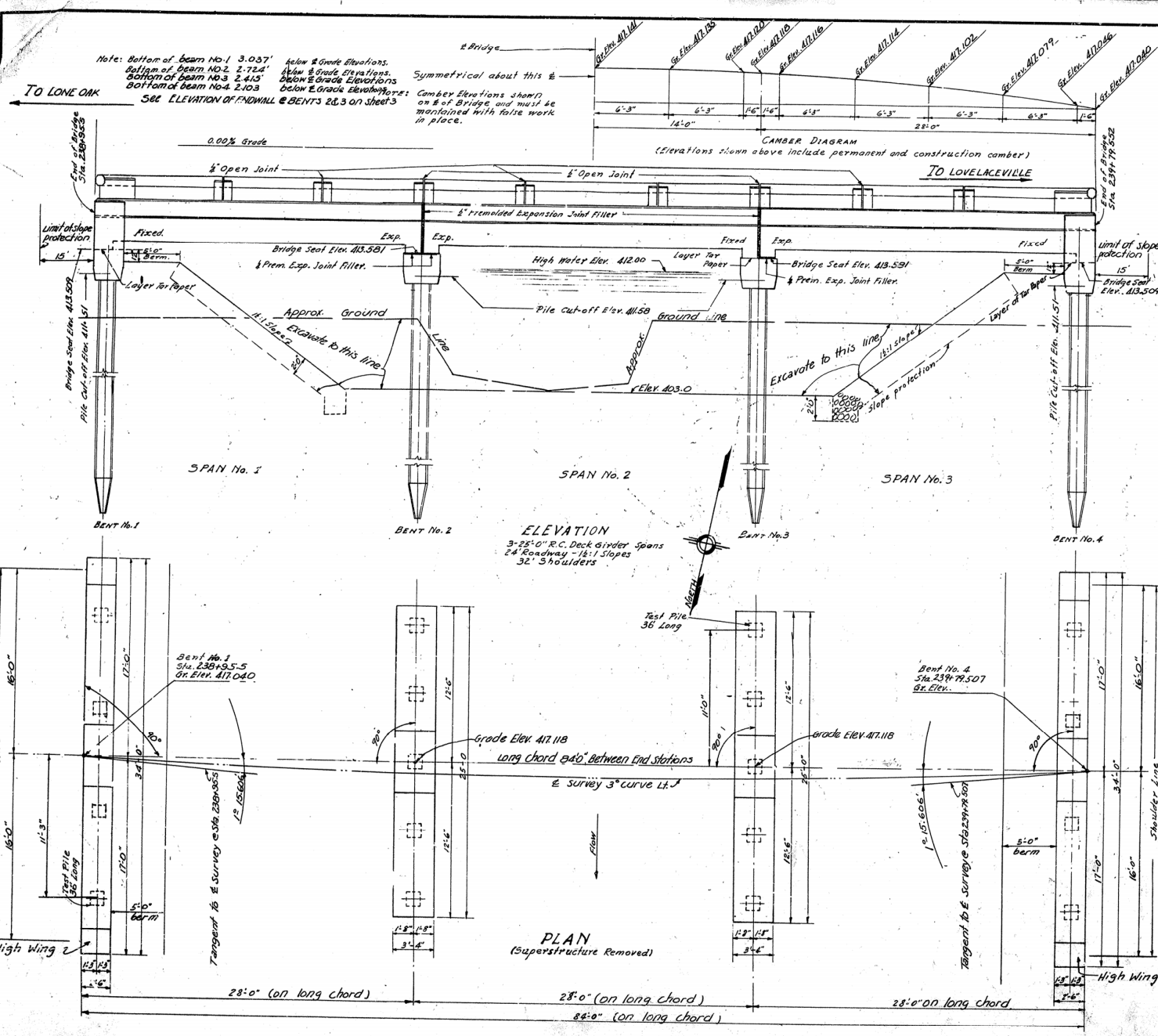




GENERAL NOTE

Specifications: — Kentucky Department of Highways (1945 Standard with Amendments)
Design Load: — Bridge designed for H₂₀-44 loading as specified in A.A.S.H.O. 1959 Specifications.
Concrete: — Class "A" concrete to be used throughout except in Handrails and Piles, where concrete class "B" shall be used.
Reinforcement: — Dimensions from face of concrete to bars are clear distances except as otherwise shown. Dimensions for bar spacing are distances center to center of bars. The deformations in all reinforcement shall conform to A.S.T.M. Specifications A-305-60.
Drains, Expansion Joint Material, Tar Paper and Copper Strip: — The quantities shown in the "Bill of Incidental Materials" on this sheet are approximate only, and the Contractor shall be responsible for furnishing enough material to complete the work in accordance with Plans and Specifications.
Reveled Edges: — All exposed edges shall be leveled $\frac{1}{8}$ " unless otherwise noted.
Tar Paper: — Tar paper to be commercial grade or roofing felt approximately $\frac{1}{8}$ " thick.
Piling: — Piles to be driven to refusal or to sustain a minimum load of 50 tons per pile. Jelling may be used if necessary. Piles in Intermediate Bents to be driven to a minimum of 10 feet below Elev. 403.00. Test piles shall be driven at the location shown on the plan. Test piles shall be accurately located so as to be used in the finished structure.
Air Entrained Concrete: — Class "A" and Class "B" concrete on the bridge superstructure, where construction joint or air space with underside of floor slabs shall be made with normal Portland cement to which has been added a mixer or approved air entraining admixture as specified by Amendment G.R. Article 4.1.9. of the Department's 1945 Spec.
SLOPE PROTECTION: — Slope Protection to consist of stone dumped to a depth of two feet the size of stone same as used in cycloped masonry according to Spec. 7-6-1.

ESTIMATE OF QUANTITIES

Item	Sheet Number	Concrete Class "A" Yds. Cu. Yds.	Reinforcement Lbs.	Air Entrainment Lbs.	Drilling 1/4"	Hammering 1/4"	Slope Protection Cu. Yds.	Channel Change
Layout Sheet	1							
Bent No. 1	2	10.1	1089	132	12.4		220	
Bent No. 2	2	7.8	720	145	155			
Bent No. 3	2	7.8	720	145	155			
Bent No. 4	2	10.1	1089	132	12.4		220	
Span No. 1	2	48.8	4892					
Span No. 2	2	37.7	3773					
Span No. 3	2	37.7	3773					
Handrail	471	4.6	1874					
A.R.C. Piles	12							
Pile Record	3							
Copper Strip	6351							
Sounding	4							
TOTALS		151.1	44,312.9	594	558	25	440	

BILL OF INCIDENTAL MATERIALS

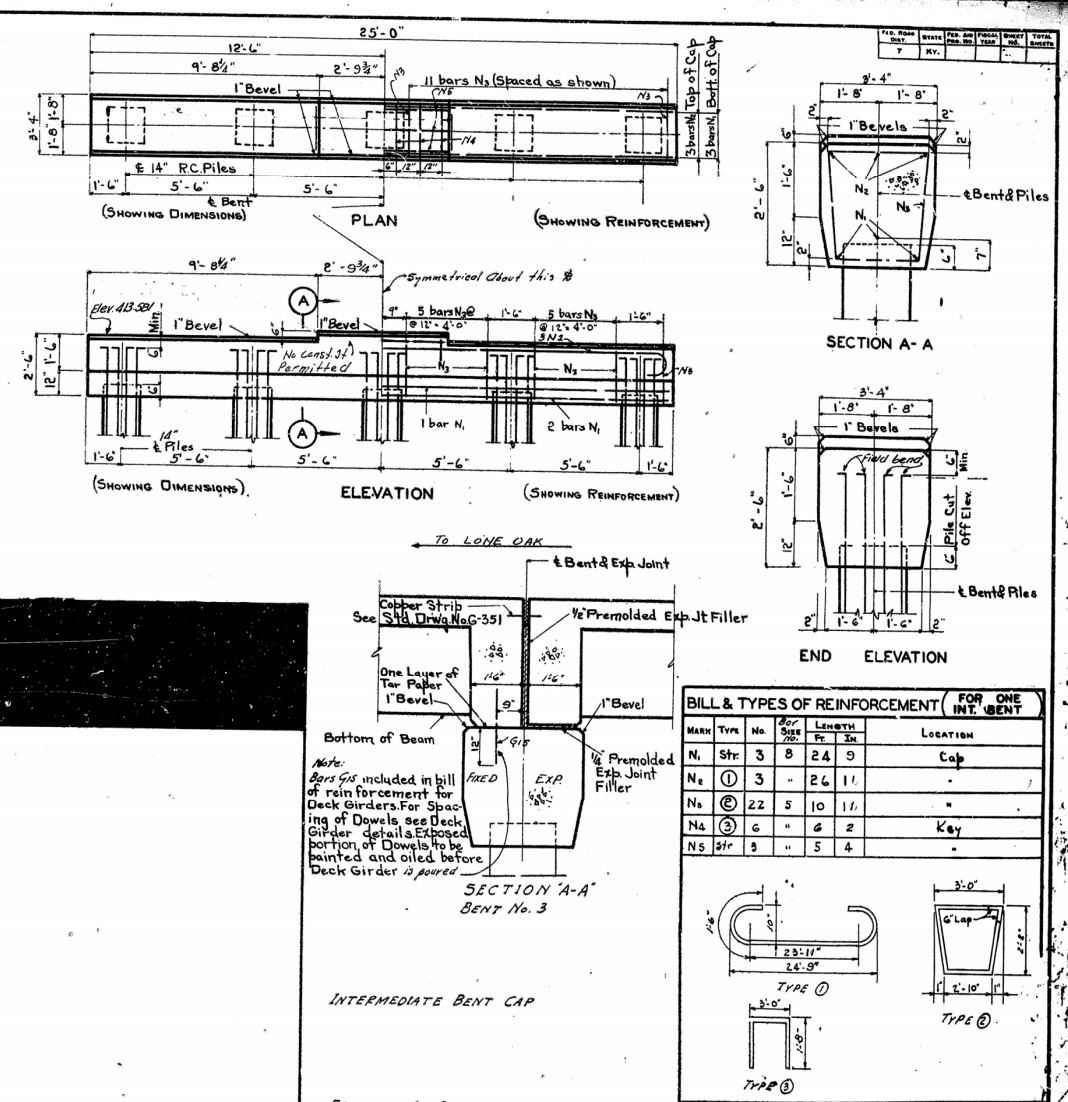
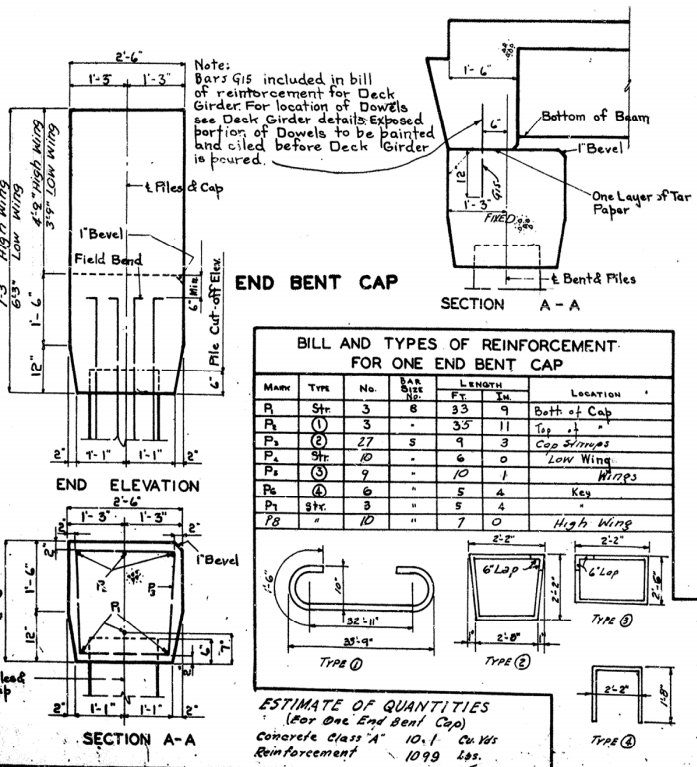
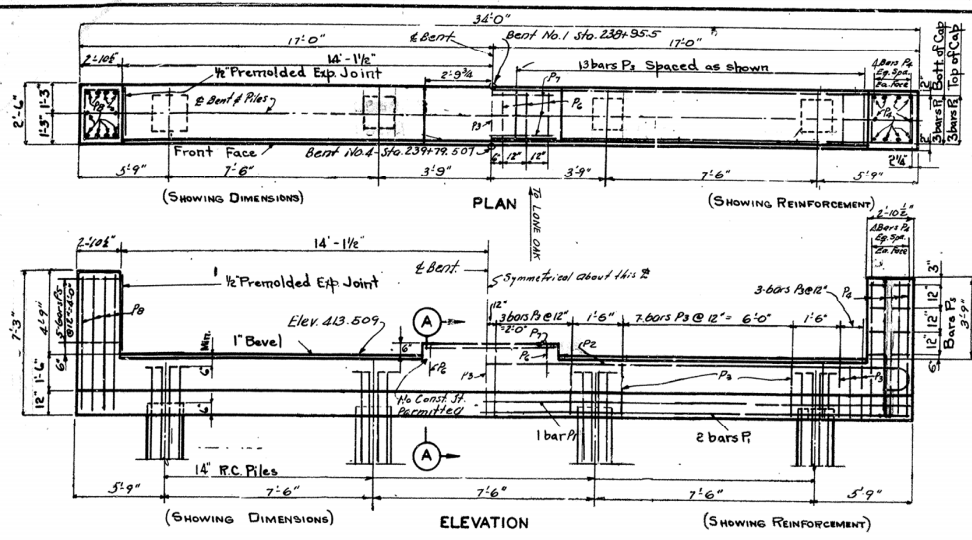
Item	No. of Pieces	Size and Description	Location
Prem. Exp. Jt. Mat'l	2	2' 4" x 22' 9"	Between Spans
" " " "	4	2' 1/2" x 22"	" " "
" " " "	1	2' 3/4" x 24"	Top Bent No. 2
" " " "	1	2' 1/2" x 24"	Top Bent No. 3
" " " "	1	2' 1/2" x 24"	Between Bent No. 3
Floor Drains	3	See Spec. 6324A	All Spans
Copper Strip	2	See Spec. 6324A	Between Spans

OVERFLOW STRUCTURE Sheet 1 of 4

COMMONWEALTH OF KENTUCKY
 DEPARTMENT OF HIGHWAYS
 FRANKFORT
 COUNTY OF
MCCRACKEN
LONE OAK-LOVELACEVILLE

STATION **239+37.503** ROAD PROJECT NO. **12429**

BRIDGE NUMBER **12429** DRAWN BY **12429**



ESTIMATE OF QUANTITIES
(For One Intermediate Bent Cap)
Concrete Class "A" 7.8 Cu Yds
Reinforcement

OVERFLOW STRUCTURE

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT COUNTY OF

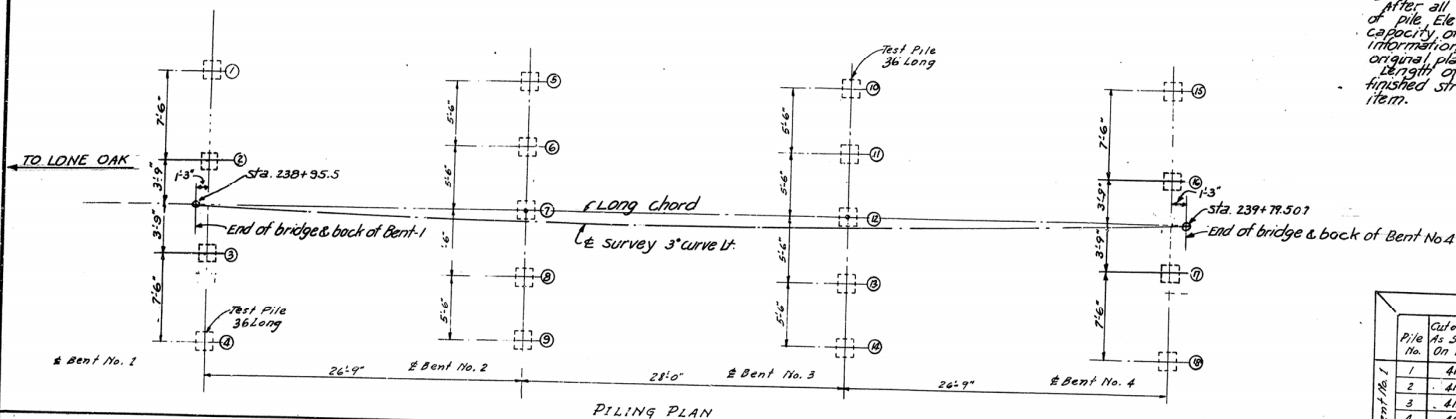
MCCRACKEN
LONE OAK-LOVELACEVILLE
ROAD

STATION 239+37.503 PROJECT NO.

1/24/29

NOTE

This sheet does not replace other records on Piles required to be kept and submitted by the Resident Engineer.
After all Piles have been driven, the Resident Engineer shall record the tip of pile, elevation as driven, length of pile in place and calculated bearing capacity of each. Pile and return one blue print copy of this sheet with this information to the Bridge Engineer so that the record can be placed on the original plans.
Length of Pile in place shown hereon is the actual length of Pile in the finished structure below cut off elevation and is not necessarily the pay item.

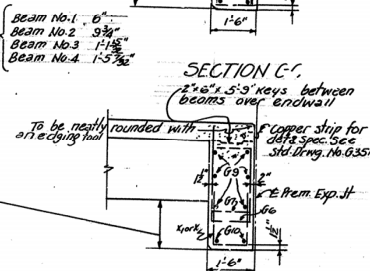
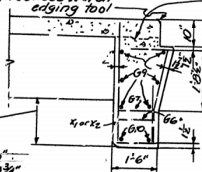


PILE RECORD				
Pile No.	Cut-off Elev. As Shown On Plans	Tip of Pile Elevation As Driven	Pile Length In Place Lin. Ft.	Calculated Capacity In Bearing-Tons
Bent No. 1				
1	411.51			
2	411.51			
3	411.51			
4	411.51			
Bent No. 2				
5	411.50			
6	411.50			
7	411.50			
8	411.50			
9	411.50			
Bent No. 3				
10	411.50			
11	411.50			
12	411.50			
13	411.50			
14	411.50			
Bent No. 4				
15	411.51			
16	411.51			
17	411.51			
18	411.51			

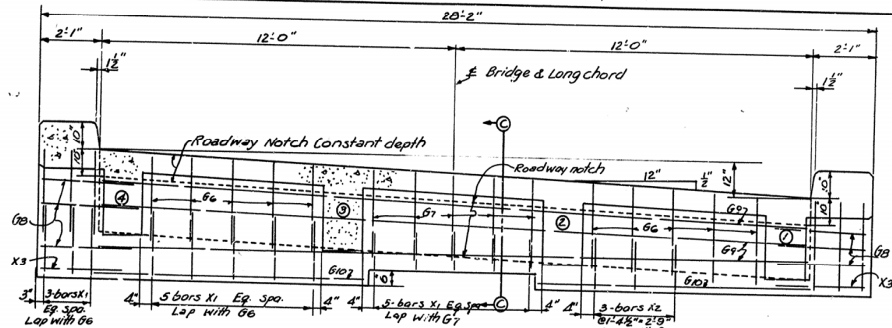
BILL OF ADDITIONAL REINFORCEMENT									
MARK TYPE	NUMBER	SIZE	LENGTH	LOCATION	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.
X1	23	20	23	4	6	2	Endwall	2	6 1/2
X2	6	6	6	5	2			2	0 1/2
X3	31	4	4	3	1				

TYPE D

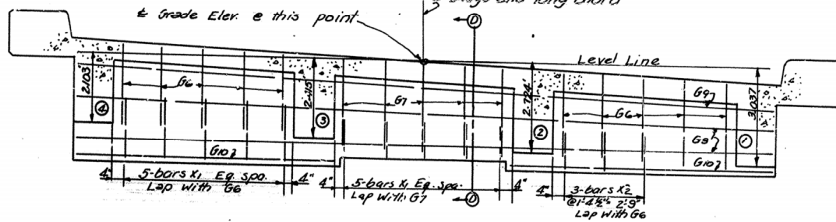
2" x 6" x 5'-9" Keys between beams over endwall. To be neatly rounded with an edging tool.



SECTION D-D



SECTIONAL ELEVATION OF ENDWALL AT BENTS NO. 1 & 4



SECTIONAL ELEVATION OF ENDWALL AT BENTS NO. 2 & 3

ESTIMATE OF QUANTITIES

SPAN NO. 1	
Concrete Class A	38.8 cu yds.
Reinforcement	5892 lbs.
SPAN NO. 2	
Concrete Class A	37.7 cu yds.
Reinforcement	5813 lbs.
SPAN NO. 3	
Concrete Class A	38.8 cu yds.
Reinforcement	5892 lbs.

REVISION TO 25 FT. R.C. DECK GIRDER SPANS

PILE RECORD

OVERFLOW STRUCTURE Sheet 3

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF
MCCRACKEN
LONE OAK-LOVELACEVILLE

ROAD
BRIDGE
NUMBER

STATION 239+37.503 PROJECT NO.
DRAWING NO. 12-429

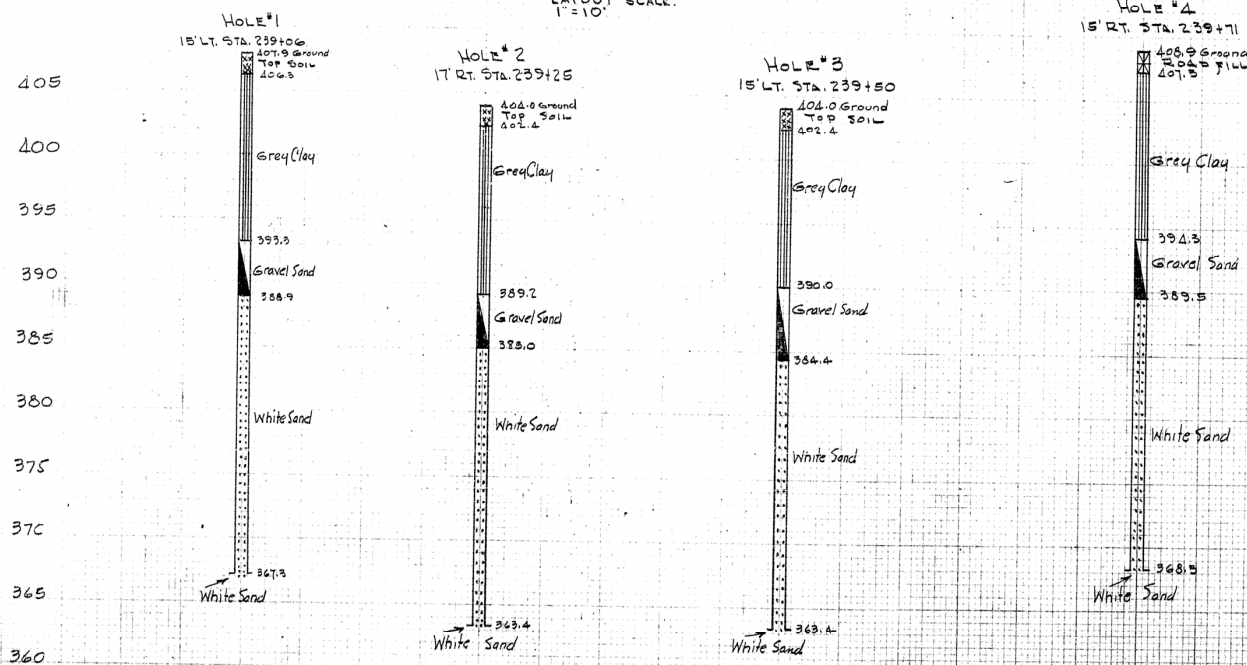
NOTE
Disregard Quantities
as shown on Std. Drwg.
No. G-524-A, Sheet No. 2

SOUNDINGS FOR BRIDGE
AT STA. 239+37.5

RECOMMENDATION -
15'-5'-15' CONTINUOUS SLAB
30°

T.B.M. #2
X ON S.E. CORNER OF CULVERT HEADWALL,
STA. 239+26. ELEV. 410.05

LAYOUT SCALE:
1" = 10'

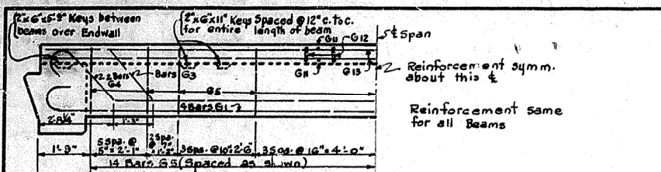


LEGEND FOR PLOTTING SOUNDINGS

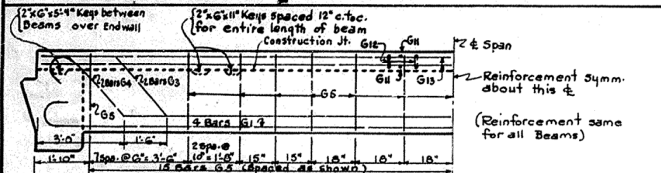
- TOP SOIL
- GREY CLAY
- GRAVEL SAND
- WHITE SAND

PLATE 3 CROSS SECTION 3" X 6" A.S.C. STANDARD
100 LBS. PRESS. FACILELY
FURNISH OUTSTANDING

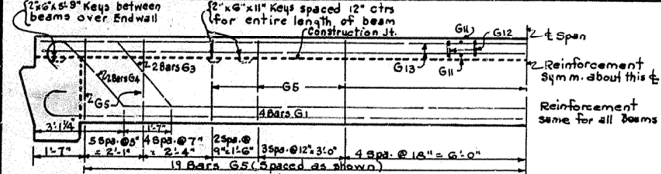
OVERFLOW STRUCTURE
COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF
McCRACKEN
LONE OAK LOVELACEVILLE
ROAD
STATION 239+37.508 PROJECT NO. 12423



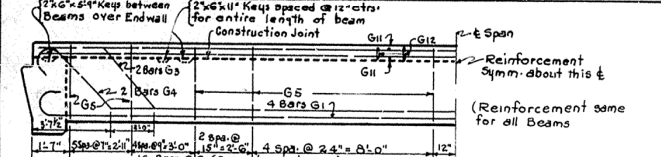
HALF SECTION ON ϵ BEAM - 20 FT SPAN



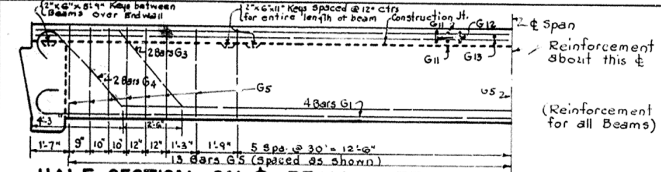
HALF SECTION ON ϵ BEAM - 25 FT SPAN



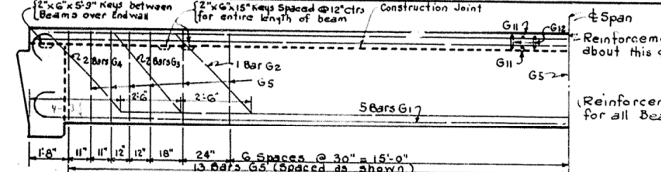
HALF SECTION ON ϵ BEAM - 30 FT SPAN



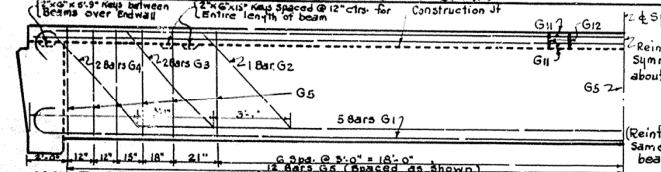
HALF SECTION ON ϵ BEAM - 35 FT SPAN



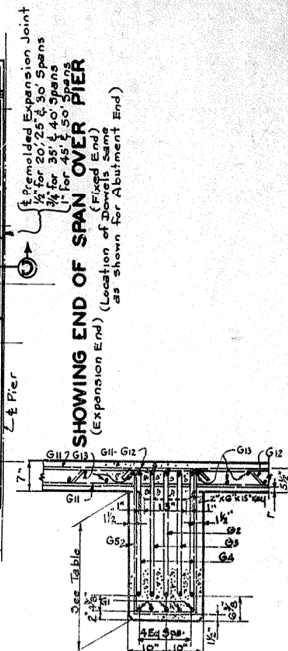
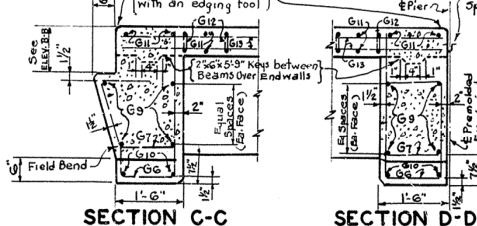
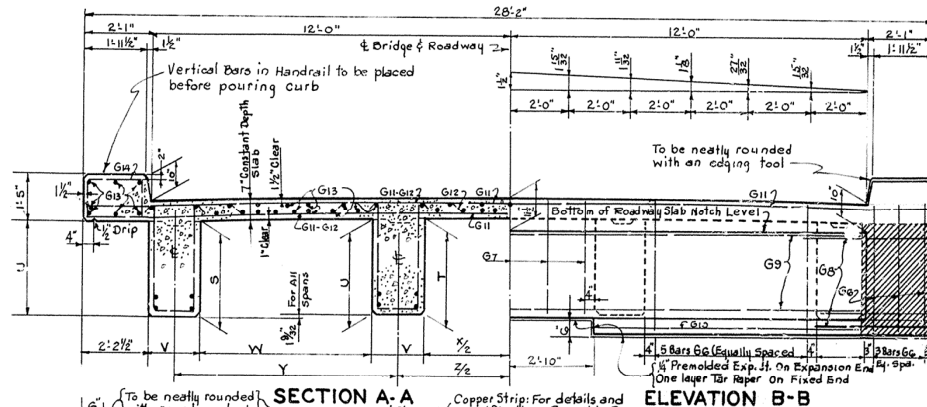
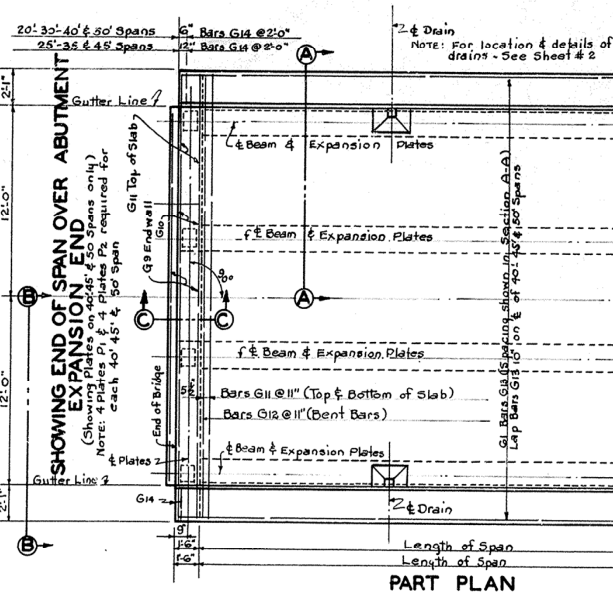
HALF SECTION ON ϵ BEAM - 40 FT SPAN



HALF SECTION ON ϵ BEAM - 45 FT SPAN



HALF SECTION ON ϵ BEAM - 50 FT SPAN



TYPICAL BEAM SECTION (For 45' & 50' Spans)

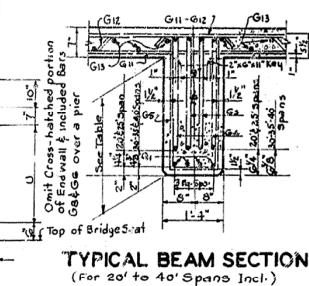


TABLE OF DIMENSIONS

SPAN	20 FT.	25 FT.	30 FT.	35 FT.	40 FT.	45 FT.	50 FT.
FLY IN	1' 8 1/2"	1' 11 1/2"	2' 1 1/2"	2' 7 1/2"	3' 1 1/2"	3' 9 1/2"	4' 0 1/2"
T	1' 8 1/2"	1' 11 1/2"	2' 1 1/2"	2' 7 1/2"	3' 1 1/2"	3' 9 1/2"	4' 0 1/2"
U	1' 4"	1' 4"	1' 4"	1' 4"	1' 4"	1' 4"	1' 4"
V	2' 2"	2' 2"	2' 2"	2' 2"	2' 2"	2' 2"	2' 2"
W	1' 6"	1' 6"	1' 6"	1' 6"	1' 6"	1' 6"	1' 6"
X	1' 6"	1' 6"	1' 6"	1' 6"	1' 6"	1' 6"	1' 6"
Y	7' 6"	7' 6"	7' 6"	7' 6"	7' 6"	7' 6"	7' 6"
Z	7' 5"	7' 5"	7' 5"	7' 5"	7' 5"	7' 5"	7' 5"

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT

STANDARD CONCRETE BRIDGE
DECK GIRDERS
STRAIGHT 24 FT. ROADWAY
SPANS 20 FT. TO 50 FT.

STATION
BRIDGE
NUMBER

PROJECT NO.

DRAWING
No. G-524A

SHEET
No. 1 of 2

BILL AND TYPES OF REINFORCEMENT														
SPAN	MARK	TYPE	NUMBER		END	SIZE	LENGTH	LOCATION						
			CONCRETE	STEEL					d	b	c	d	e	f
			SPAN	SPAN	SPAN		FT. IN.		FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.
20 FT.	G1	⊙	16	16	16	NONE	*10 25 1	Beams	21 5	1 10	1 03	22 54		
	G2	⊙	8	8	8		*9 23 3	"	2 0	2 0 1/2	1 1/2	1 5/8	1 6 1/2	22 0
	G3	⊙	8	8	8		*1 24 3	"	-	1 1 1/2	1 7/8	1 5/8	1 4 1/2	21 10
	G4	⊙	108	108	108	*4	5 10	"	-	1 2	0			
	G5	⊙	32	20	26		*6 2	End wall	1 7 1/2	2 5 1/2				
	G6	⊙	10	10	10		*5 2	"	1 1 1/2	1 1 1/2				
	G7	⊙	24	-	12		*3 1	"						
	G8	⊙	8	8	8		*8 9	"						
	G9	⊙	61	61	61		*22 8	Slab						
	G10	⊙	16	16	16	*10 30 1	Beams	26 5	1 10	1 0 1/2	27 5 1/2			
35 FT.	G1	⊙	8	8	8		*27 11	"	2 0	2 5 1/2	19 0	1 8 1/2	1 10 1/2	26 5 1/2
	G2	⊙	8	8	8		*30 2	"	-	2 3 22	0	1 7 1/2	1 8 1/2	26 1 1/2
	G3	⊙	116	116	116	*4	6 5	"	1 1	2 3 1/2				
	G4	⊙	32	20	26		*6 9	End wall	1 11	2 9				
	G5	⊙	10	10	10		*3 9	"	1 5	2 3				
	G6	⊙	32	-	16		*3 1	"						
	G7	⊙	8	8	8		*27 8	"						
	G8	⊙	61	61	61		*27 8	Slab						
	G9	⊙	16	16	16	*11 35 4	Beams	31 4	2 0	1 1 1/2	32 5 1/2			
	G10	⊙	8	8	8		*32 10	"	2 0	2 7 1/2	23 7 1/2	1 10 1/2	1 11 1/2	31 3 1/2
30 FT.	G1	⊙	8	8	8		*35 6	"	-	2 4 1/2	26 9	1 8 1/2	1 9 1/2	32 1
	G2	⊙	148	148	148	*4	6 5	"	1 1	2 5				
	G3	⊙	32	20	26		*7 0	End wall	2 0 1/2	2 10 1/2				
	G4	⊙	10	10	10		*6 0	"	1 6 1/2	2 4 1/2				
	G5	⊙	32	-	16		*3 1	"						
	G6	⊙	8	8	8		*8 9	"						
	G7	⊙	61	61	61		*32 8	Slab						
	G8	⊙	16	16	16	*11 40 4	Beams	36 4	2 0	1 1 1/2	37 5 1/2			
	G9	⊙	8	8	8		*37 6	"	2 0	3 4 1/2	26 9	2 4 1/2	2 6 3 1/2	35 6 1/2
	G10	⊙	128	128	128	*4	7 9	"	-	3 1 1/2	30 9	2 2 1/2	2 4 3 1/2	37 1 1/2
35 FT.	G1	⊙	32	20	26		*8 1	End wall	2 7	3 5				
	G2	⊙	10	10	10		*7 1	"	2 1	2 11				
	G3	⊙	40	-	20									

Spn		Class "A" Concrete Cu. Yds.	Reinforcement Lbs.	Class "B" Bronze Lbs.
50 FT.	Single	30.8	6874	
	Intermediate	29.1	6767	
125 FT.	End	29.9	6815	
	Single	38.6	8826	
150 FT.	Intermediate	36.6	8710	
	End	37.6	8768	
200 FT.	Single	45.4	11506	
	Intermediate	43.3	11380	
250 FT.	End	44.3	11448	
	Single	56.8	13226	
300 FT.	Intermediate	54.2	13080	
	End	55.5	13148	
350 FT.	Single	70.2	11476	304
	Intermediate	67.0	14590	304
400 FT.	End	68.6	14668	304
	Single	85.0	18339	304
450 FT.	Intermediate	81.8	18182	304
	End	83.4	18260	304
500 FT.	Single	104.0	20109	304
	Intermediate	100.1	19942	304
550 FT.	End	102.1	20030	304

Span	Number of Drains Per Span	Spacing of Drains (Each Gutter)
20	2	11'-6"
25	2	14'-0"
30	4	9'-6" 16'-0" 9'-6"
35	4	9'-0" 20'-0" 9'-0"
40	6	9'-0" 12'-6" 12'-6" 9'-0"
45	6	9'-0" 15'-0" 15'-0" 9'-0"
50	6	11'-6" 15'-0" 15'-0" 11'-6"

Center Line of Pier or End of Span

SPECIFICATIONS—: Kentucky Department of Highways Current Specifications with Amendments.
DESIGN LOAD—: Designed for H₁₆40 loading with a minimum loading H₁₆-S₁₂ as specified in A.A.S.H.O.-1953
DESIGN STRESSES—: $f_c=18000\%$; $f_s=10000\%$; $n=10$; $v=180\%$
CONCRETE—: Class "A" to be used thruout.

REINFORCEMENT—: Dimensions from face of concrete to bars are clear distances except as otherwise shown. Dimensions for bar spacing are distances center to center of bars. The deformations of all reinforcing steel bars shall conform to A.S.T.M. - A-305 current specifications.

FLOOR DRAINS, EXPANSION JOINT MATERIAL, COPPER STRIP AND TAR PAPER _____

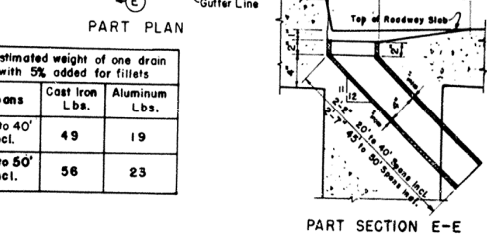
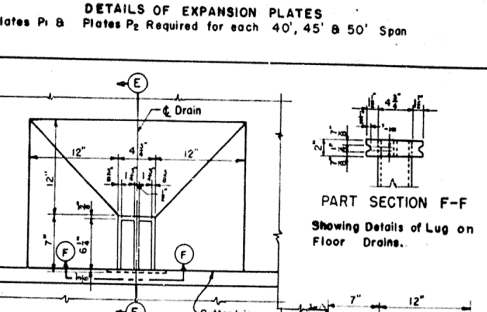
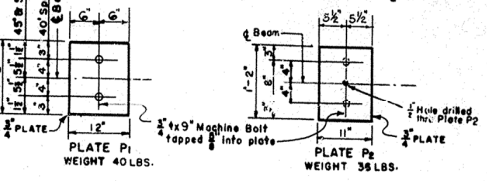
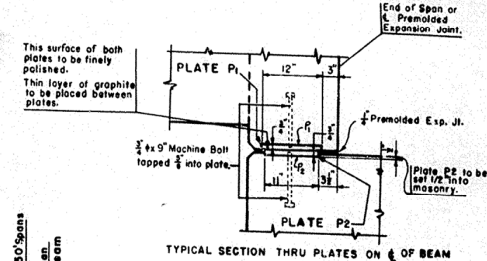
The cost of these items to be included in the unit price bid for Class "A" concrete.

Floor drains may be either Cast Iron or Aluminum.

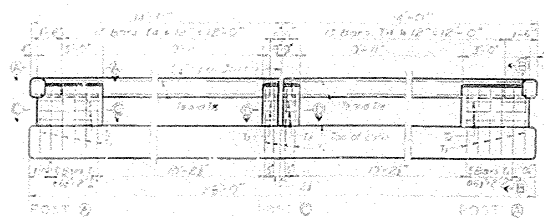
BEVELED EDGES: All exposed edges to be beveled $\frac{1}{8}$ " unless otherwise noted.

Aluminum Drains shall be given a corrosive resistance test to the laboratory.

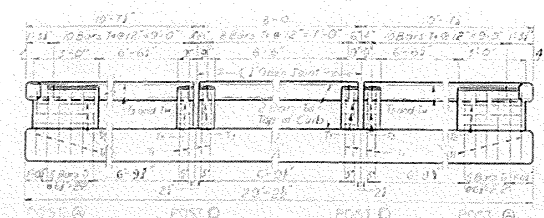
EXPANSION PLATES —: All plates to be A. S. T. M. B-22 Class "C" or B-100 N81 or N82 current specifications with finely polished. Machine Bolts to be furnished but are not included in the weight of Plates.
Cost of Bolts to be included in unit price bid for Plates.



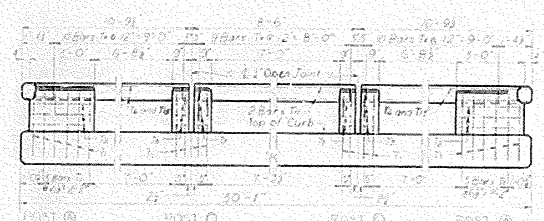
Estimated weight of one drain with 5% added for fillets		
Spans	Cast Iron Lbs.	Aluminum Lbs.
20' to 40' Incl.	49	19
45' to 50' Incl.	56	23



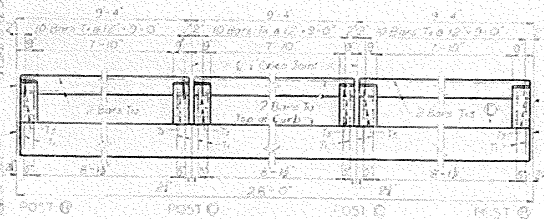
SINGLE SPAN — STRAIGHT



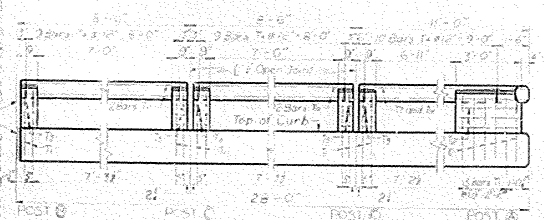
SINGLE SPAN — 30° SKEW



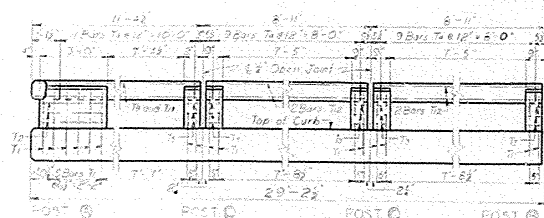
SINGLE SPAN — 45° SKEW



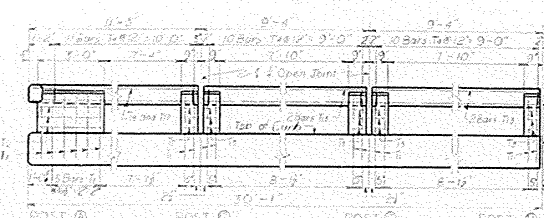
INTERMEDIATE SPAN



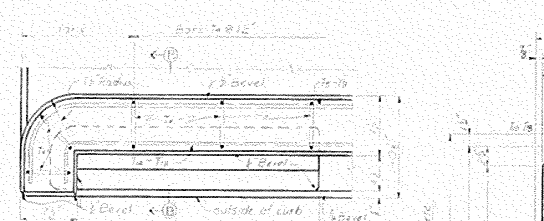
END SPAN — STRAIGHT, OR SHORT RAIL 30° OR 45° SKEW



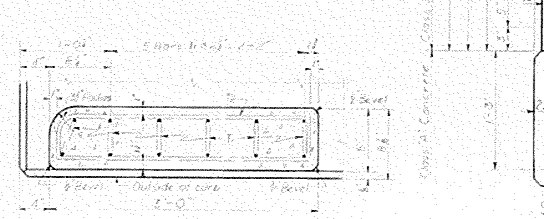
END SPAN — LONG RAIL — 30° SKEW



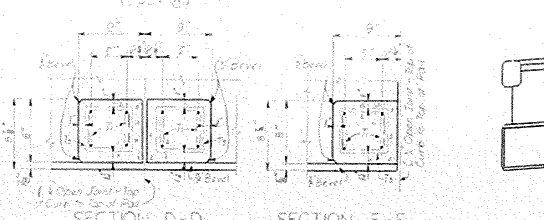
END SPAN — LONG RAIL — 45° SKEW



PLAN A-A



SECTION C-C (POST @)



SECTION D-D (POST @)

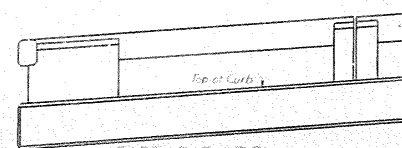
SECTION E-E (POST @)

TABLE OF REINFORCEMENT AND ESTIMATE OF QUANTITIES																
25' R.C.D.G. SPAN		NUMBER												CONCRETE CLASS 0	REINFORCEMENT	
		T ₁	T ₂	T ₃	T ₄	T ₅	T ₆	T ₇	T ₈	T ₉	T ₁₀	T ₁₁	T ₁₂	CU. YDS.	LB.	
STAIRWAY	SINGLE	TWO RAILS	22	12	60	-	-	-	8	-	-	-	-	8	1.7	558
	INTERMEDIATE	TWO RAILS	24	-	30	60	-	-	-	-	24	-	-	1.4	486	
	END	TWO RAILS	32	6	30	60	-	-	-	16	-	-	4	1.6	554	
	SINGLE	TWO RAILS	40	12	24	64	8	-	-	-	-	8	-	1.8	636	
30' STAIRWAY	INTERMEDIATE	TWO RAILS	24	-	36	60	-	-	-	-	24	-	-	1.4	486	
	END	LONG RAIL	16	3	15	31	-	-	-	2	-	-	2	0.8	283	
	END	SHORT RAIL	16	3	15	30	-	-	-	2	-	-	2	0.8	277	
	SINGLE	TWO RAILS	40	12	24	66	-	-	-	8	-	-	8	1.9	645	
45' STAIRWAY	INTERMEDIATE	TWO RAILS	24	-	36	60	-	-	-	-	24	-	-	1.4	486	
	END	LONG RAIL	16	3	15	32	-	-	-	2	-	-	2	0.8	289	
	END	SHORT RAIL	16	3	15	30	-	-	-	2	-	-	2	0.8	277	

NO.	TYPE	LENGTH	LOCATION		NO.	
			FT.	IN.	FT.	IN.
1	(1)	27	6	7		
2	(2)	7	0			
3	(3)	10	11			
4	(4)	2	3			
5	(5)	10	11			
6	(6)	11	5			
7	(7)	11	5			
8	(8)	11	5			
9	(9)	11	5			
10	(10)	11	5			
11	(11)	11	5			
12	(12)	11	5			
13	(13)	11	5			
14	(14)	11	5			
15	(15)	11	5			
16	(16)	11	5			
17	(17)	11	5			
18	(18)	11	5			
19	(19)	11	5			
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96	(96)	11	5			
97	(97)	11	5			
98	(98)	11	5			
99	(99)	11	5			
100	(100)	11	5			

GENERAL NOTE

SPECIFICATIONS: Kentucky Department of Highways current Specifications and Amendments.
 CONCRETE: Class B concrete for use in Roadway.
 REINFORCEMENT: Dimensions from face of concrete to bars on wear surfaces unless otherwise shown. Dimensions for bar spacing are distances center to center of bars.
 The dimensions of all reinforcing steel bars shall conform to A.S.T.M. designation: A 305 - current specifications.
 BEVELED EDGES: All exposed edges to be beveled unless otherwise noted.



PART ELEVATION

When bridge is on a plus or minus grade the top of all posts and rail shall be parallel to the grade line. Sides of all posts shall be vertical.

COMMONWEALTH OF KENTUCKY	
DEPARTMENT OF HIGHWAYS	
FRANKFORT	
STANDARD HANDRAIL	
DECK GIRDER 25 FT SPAN	
ALL ROADWAY WIDTHS	
1951	
APPROVED BY:	BRIDGE ENGINEER
STATE HIGHWAY	ENGINEER
	H-71

BRIDGE

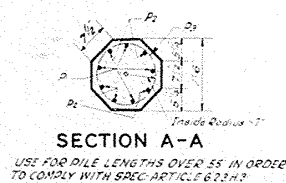
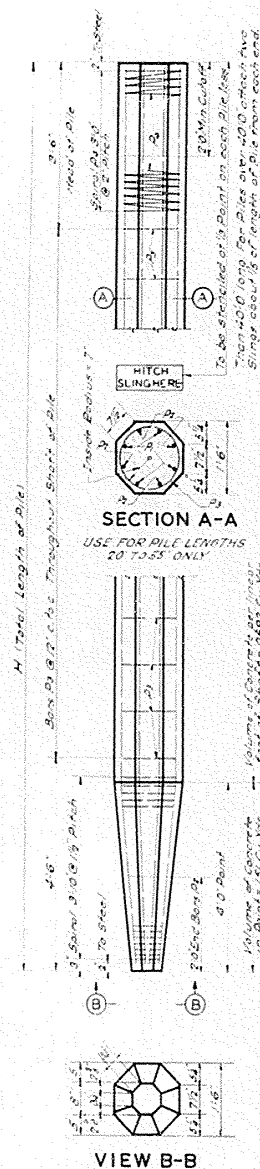


TABLE OF DIMENSIONS AND QUANTITIES											
ESTIMATED QUANTITIES FOR ONE PILE			BILL AND TYPES OF REINFORCEMENT FOR ONE PILE ONLY								
H	CONCRETE CLASS D	REINFORCEMENT	LENGTH 20 TO 55'			LENGTH 56 TO 85'			LENGTH 86 TO 115'		
FT	CUYD	LBS	FT	IN	FT	IN	FT	IN	FT	IN	NUMBER
20	126	420	19	8	15	10	17	10	15	10	19
22	130	526	21	8	17	10	19	10	17	10	21
24	133	573	23	8	19	10	21	10	19	10	23
26	137	620	25	8	21	10	23	10	21	10	25
28	141	666	27	8	23	10	25	10	23	10	27
30	145	712	29	8	25	10	27	10	25	10	29
32	148	759	31	8	27	10	29	10	27	10	31
34	152	806	33	8	29	10	31	10	29	10	33
36	156	852	35	8	31	10	33	10	31	10	35
38	160	900	37	8	33	10	35	10	33	10	37
40	164	946	39	8	35	10	37	10	35	10	39
42	168	992	41	8	37	10	39	10	37	10	41
44	172	1038	43	8	39	10	41	10	39	10	43
46	176	1086	45	8	41	10	43	10	41	10	45
48	180	1132	47	8	43	10	45	10	43	10	47
50	184	1178	49	8	45	10	47	10	45	10	49
52	188	1225	51	8	47	10	49	10	47	10	51
54	192	1271	53	8	49	10	51	10	49	10	53
56	196	1318	55	8	51	10	53	10	51	10	55
58	200	1364	57	8	53	10	55	10	53	10	57
60	204	1410	59	8	55	10	57	10	55	10	59
62	208	1456	61	8	57	10	59	10	57	10	61
64	212	1502	63	8	59	10	61	10	59	10	63
66	216	1548	65	8	61	10	63	10	61	10	65
68	220	1594	67	8	63	10	65	10	63	10	67

GENERAL NOTE

SPECIFICATIONS: Kentucky Department of Highways.
CONCRETE:—Class D concrete shall be used in Piles.
REINFORCEMENT:—The cost of reinforcement shall be included in the price bid per linear foot of Piles. Concrete Piles must not be damaged below cutoff elevation. Concrete and Spiral above cutoff elevation to be removed. Bars P₁ and P₂ to remain and project into structure above. These Bars shall be bent in field if necessary to maintain clearance shown on Bridge details.

PILING:—All Piles shall have a minimum penetration of 20' unless solid rock is encountered. Piles shall be driven to refusal or to support a minimum load of 50 Tons per pile.

TEST PILES:—Test Piles shall be driven where designated on Bridge Plans to determine the length of Piles required. All Test Piles shall be located so they will act as a part of the piling system.

PILE CUTOFF:—No payment will be made for pile cutoff except as provided for in Specifications. Deformation of reinforcing bars shall conform to A.S.T.M. A-305 Current Specifications.

COMMONWEALTH OF KENTUCKY
 DEPARTMENT OF HIGHWAYS
STANDARD
18" REINFORCED
CONCRETE PILE

PL 2

BRIDGE