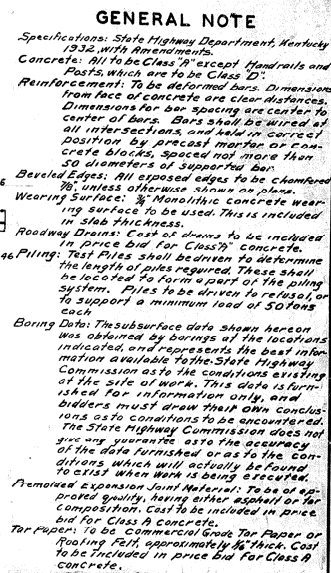
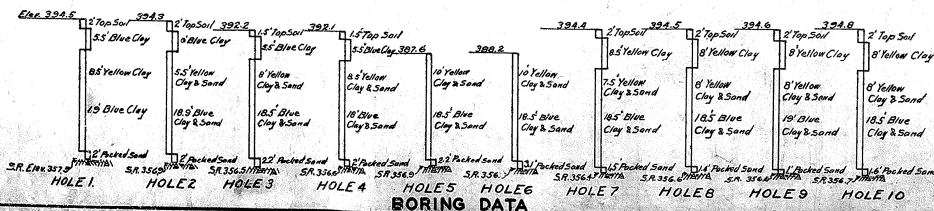
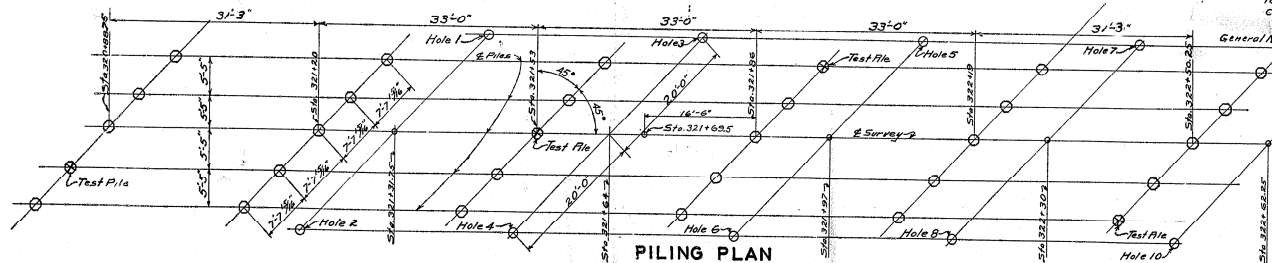


$$\begin{array}{r} 31^1-3'' \\ 33^1-0'' \\ \hline 31-3 \\ \hline 1-9 \end{array}$$


ELEVATION
5-30'-0" R.C. DECK GIRDER SPANS 45° SKEW RIGHT-24 FT. ROADWAY



TOTAL ESTIMATE OF QUANTITIES

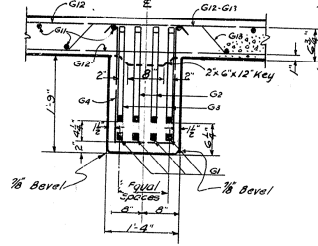
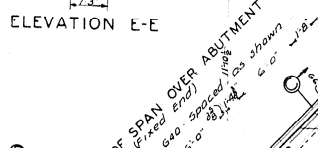
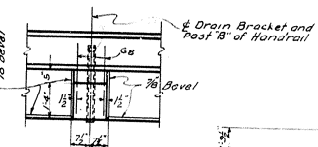
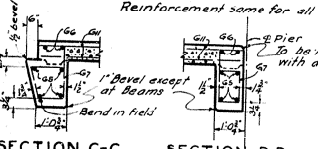
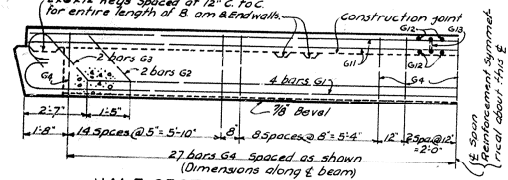
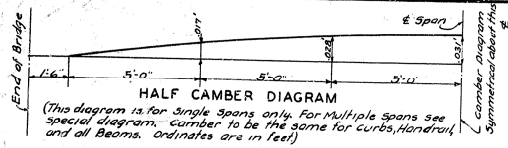
CONCRETE CLASS A	287.2	CU. YDS.
CONCRETE CLASS D	19.4	CU. YDS.
REINFORCEMENT	76,740	LBS.
30-18" PRECAST PILES -	1200	LIN. FT.
RIP RAP - SEE ROAD PLANS		
EXCAVATION, CHANNEL CHANGE, SEE ROAD PLANS		

BRIDGE OVER LICK CREEK

COMMONWEALTH OF KENTUCKY
STATE HIGHWAY DEPARTMENT
FRANKFORT
COUNTY OF
HOPKINS
DAWSON SPRINGS-PROVIDENCE

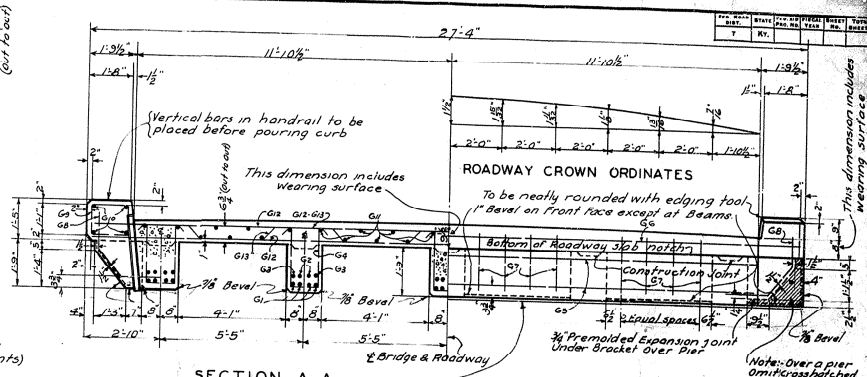
STATION 321+69.5 ROAD PROJECT NO.

54-260-3



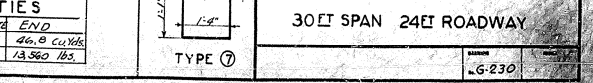
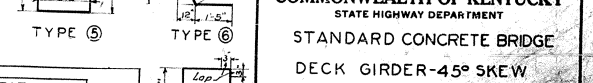
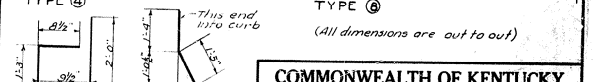
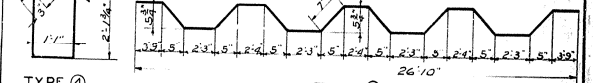
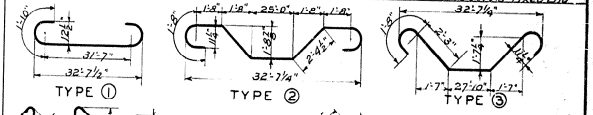
GENERAL NOTE

Specifications: State Highway Department, Kentucky, (1932 standard with subsequent adopted amendments)
 Concrete: Class "A" concrete to be used throughout.
 Steel Reinforcement: To be deformed bars. Dimensions shown from the face of concrete are clear distances. Dimensions shown for bar spacing are the distances center to center of bars. All reinforcement shall be securely held in correct position by means of precast mortar or concrete blocks, and wired at all intersections. Precast mortar or concrete blocks supporting reinforcement shall be spaced not farther apart than 50 diameters of the supported bar.
 Wearing Surface: To be 3/4" monolithic concrete, placed and finished in accordance with requirements for same.
 Beveled corners: All exposed corners to be beveled with 3/8" triangular making unless otherwise shown.
 Premolded Expansion Joint Material: See Standard Drawing No. 6-251.
 Tar Paper: To be Commercial Grade Tar Paper or Roofing felt approximately 1/8" thick. Cost from Drivers. For Details of Bridge, see Standard Drawing No. 6-200.



BILL AND TYPES OF REINFORCEMENT

MARK	TYPE	NO.	SIZE	LENGTH	LOCATION	MARK	TYPE	NO.	SIZE	LENGTH	LOCATION
G1	1	20	1/2"	3.5	Beams	G21	5/8"	8	5/8"	12	Slab
G2	2	10	1/2"	3.6	"	G22	"	"	"	"	"
G3	3	10	"	3.6	"	G23	"	"	"	"	"
G4	4	25	3/4"	5	"	G24	"	"	"	"	"
G5	5	10	1/2"	3.3	End walls	G25	"	"	"	"	"
G6	6	5	3/8"	3.2	"	G26	"	"	"	"	"
G7	7	32	5/8"	4	"	G27	"	"	"	"	"
G8	8	12	1/2"	4	Beveled end walls	G28	"	"	"	"	"
G9	9	35	"	5	Curbs	G29	"	"	"	"	"
G10	10	31	"	8	"	G30	"	"	"	"	"
G11	"	10	"	3.2	Slab	G31	"	"	"	"	"
G12	"	10	3/8"	2.6	"	G32	"	"	"	"	"
G13	"	10	"	2.7	"	G33	"	"	"	"	"
G14	5/8"	8	"	2.5	"	G34	"	"	"	"	"
G15	"	8	"	2.4	"	G35	"	"	"	"	"
G16	"	8	"	2.3	"	G36	"	"	"	"	"
G17	"	8	"	2.2	"	G37	"	"	"	"	"
G18	"	8	"	2.1	"	G38	"	"	"	"	"
G19	"	8	"	2.1	"	G39	"	"	"	"	"
G20	"	8	"	2.0	"	G40	10	1/2"	2	0	Beams Fixed End

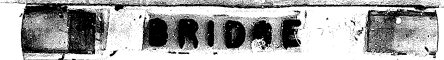


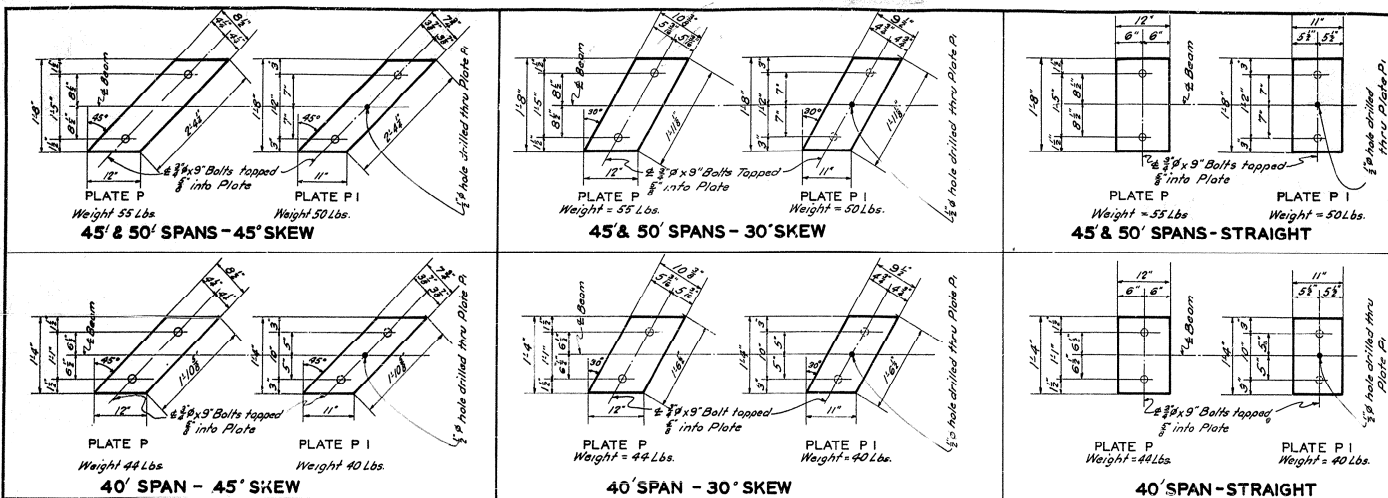
Note: Quantities are estimated for one intermediate bracket on each side of span.

ESTIMATE OF QUANTITIES

SPAN	SINGLE	INTERMEDIATE	END
Concrete, class A	47.7 cu. Yds.	45.9 cu. Yds.	46.8 cu. Yds.
Reinforcement	13,560 lbs.	13,560 lbs.	13,560 lbs.

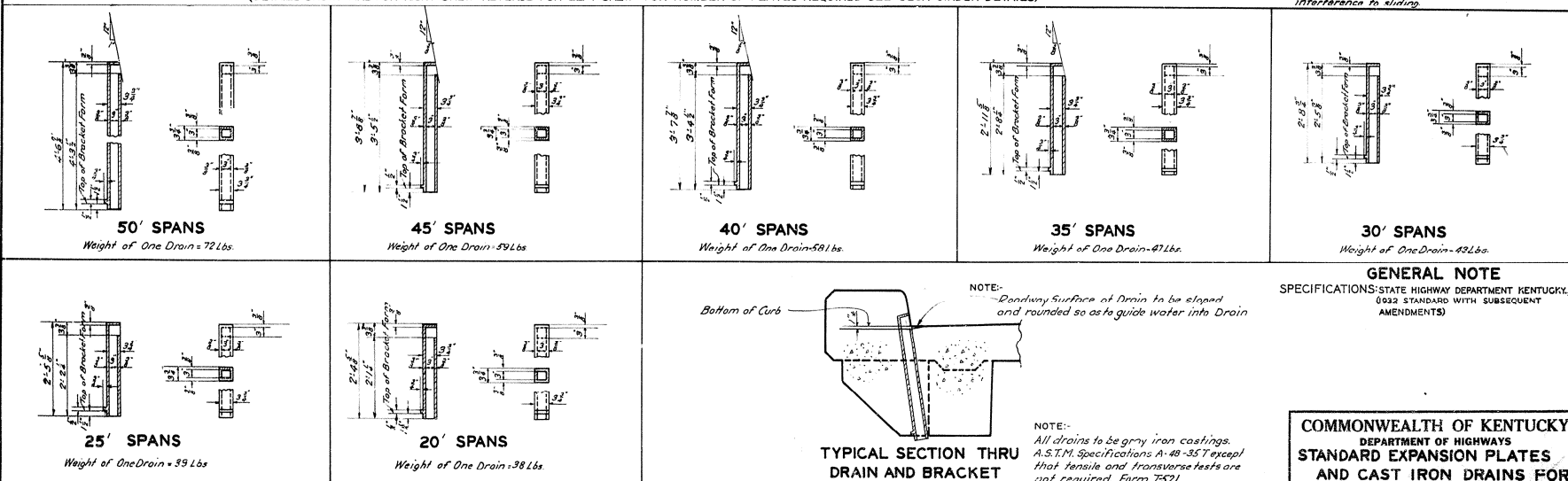
COMMONWEALTH OF KENTUCKY
 STATE HIGHWAY DEPARTMENT
 STANDARD CONCRETE BRIDGE
 DECK GIRDER-45° SKEW
 30'± SPAN 24'± ROADWAY



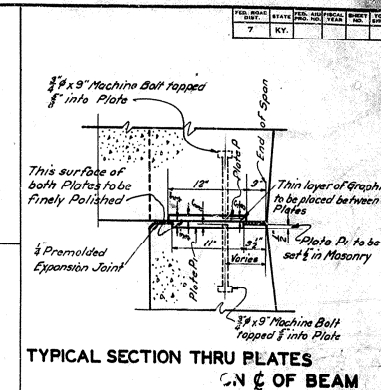


DETAILS OF EXPANSION PLATES

(DETAILS SHOWN ARE FOR RIGHT SKEW REVERSE-FOR LEFT SKEW-FOR NUMBER OF PLATES REQUIRED SEE DECK GIRDER DETAILS)



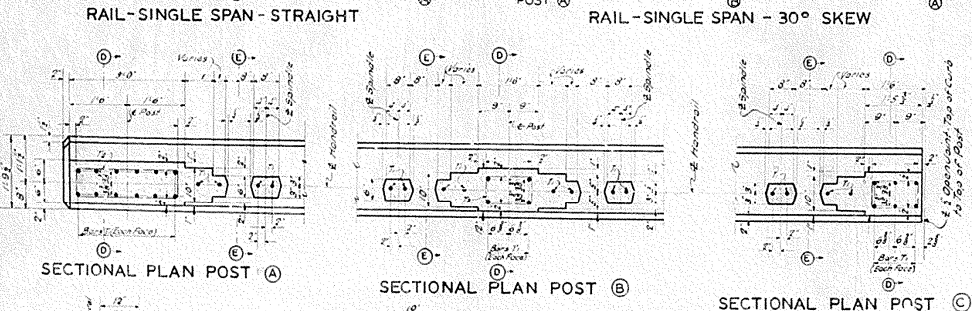
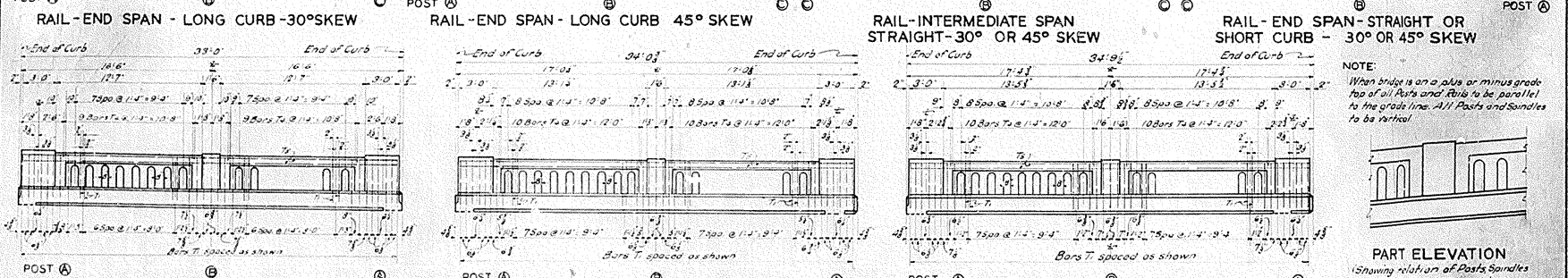
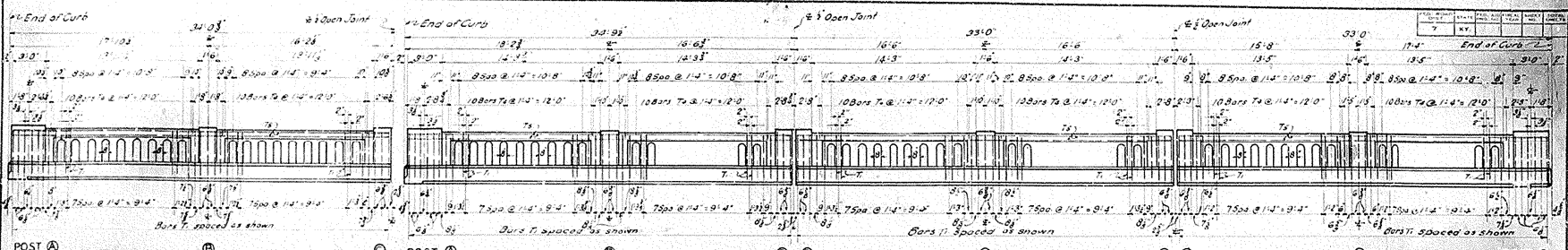
DETAILS OF CAST IRON DRAINS



NOTE
 All Plates to be Class B Bronze A.S.T.M. Specifications.
 32-91 with sliding surfaces finely polished.
 2-3/8" Machine Bolts to be furnished for each Plate. Weight of Bolts not included in weight of Plates. Curl of Bolts to be included in price bid for Plates.
 Plates shall be true to dimensions and sliding surfaces shall be even and flat to give full bearing with no interference to sliding.

DESIGNED BY: DATE: 6/15/57
 CHECKED BY: DATE: 6/15/57
 APPROVED BY: DATE: 6/15/57

REVISIONS
 NO. 6-230
 REVISIONS



BILL AND TYPES OF REINFORCEMENT									
Max	Min	No.	Size	Length	Location	FT.	IN.		
T1	(1)	3	5	4	2	Curb into Posts & Sandals	-	-	-
T2	(2)	3	5	6	10	Posts (A)	2	8	-
T3	-	-	3	10	(B)	1	2	-	-
T4	(3)	3	5	0	11	Top of Rail	-	-	-
T5	SP	3	5	0	11	Top of Rail	-	-	-

ALL DIMENSIONS ARE OUT-TO-OUT

GENERAL NOTE

Specifications - State Highway Department, Kentucky Standard with subsequent adopted amendments

Concrete - Class D concrete to be used in Handrail & Posts

Steel Reinforcement - To be deformed bars. Dimensions shown from the face of concrete and the clear distances

Dimensions shown for bar spacing are the distances center-to-center of bars

All reinforcement shall be securely held in correct position by means of precast mortar or concrete blocks and wired at intersections. Precast mortar or concrete blocks supporting reinforcement shall be spaced not farther apart than 50 diameters of the supported bar

Bevels - All corners of Handrail to be beveled 5' unless otherwise noted hereon.

TABLE OF REINFORCEMENT AND ESTIMATED QUANTITIES									
30 FT SPAN		T1	T2	T3	T4	T5	Concrete	Reinforcement	Qty
STRAIGHT	Single	Two Rails	132	16	8	36	6	32	4.1
	Intermediate	Two Rails	116	-	24	40	6	32	3.8
	End	Two Rails	128	8	16	33	6	32	3.8
30° SKEW	Single	Two Rails	140	16	22	42	6	32	4.1
	Intermediate	Two Rails	116	-	24	40	6	32	3.8
	End	Two Rails	64	4	8	20	3	32	3.9
45° SKEW	Single	Two Rails	140	16	8	40	6	32	4.1
	Intermediate	Two Rails	116	-	24	40	6	32	3.8
	End	Two Rails	64	4	8	20	3	32	3.9

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

**STANDARD HANDRAIL
FOR
DECK GIRDERS 30 FT. SPANS**

REVISION
H-12

BRIDGE

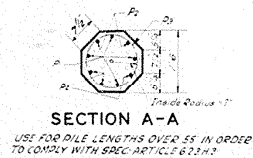
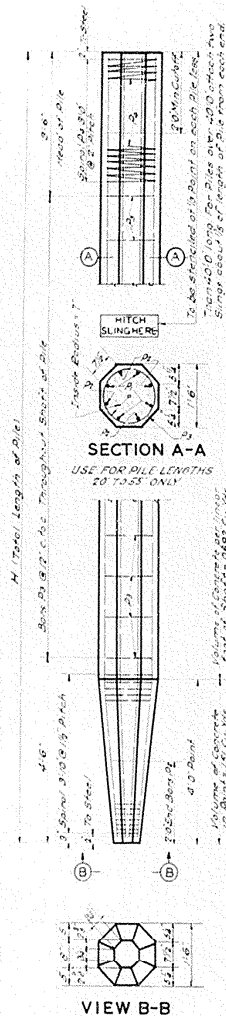


TABLE OF DIMENSIONS AND QUANTITIES											
BILL AND TYPES OF REINFORCEMENT FOR ONE PILE ONLY											
H	ESTIMATED QUANTITIES FOR ONE PILE	CONCRETE CLASS D		REINFORCEMENT		LENGTH		LENGTH		NUMBER	
		FT	CUYD	FT	IN	FT	IN	FT	IN	FT	IN
20	126	420	15	8	15	10	17	10	15	10	13
22	150	526	21	8	17	10	19	10	17	10	15
24	153	573	23	8	19	10	21	10	19	10	17
26	167	620	25	8	21	10	23	10	21	10	19
28	181	666	27	8	23	10	25	10	23	10	21
30	195	712	29	8	25	10	27	10	25	10	23
32	208	759	31	8	27	10	29	10	27	10	25
34	222	806	33	8	29	10	31	10	29	10	27
36	236	852	35	8	31	10	33	10	31	10	29
38	250	899	37	8	33	10	35	10	33	10	31
40	264	946	39	8	35	10	37	10	35	10	33
42	277	992	41	8	37	10	39	10	37	10	35
44	291	1038	43	8	39	10	41	10	39	10	37
46	305	1086	45	8	41	10	43	10	41	10	39
48	319	1132	47	8	43	10	45	10	43	10	41
50	333	1178	49	8	45	10	47	10	45	10	43
52	347	1225	51	8	47	10	49	10	47	10	45
54	361	1271	53	8	49	10	51	10	49	10	47
56	375	1317	55	8	51	10	53	10	51	10	49
58	389	1363	57	8	53	10	55	10	53	10	51
60	403	1409	59	8	55	10	57	10	55	10	53
62	417	1455	61	8	57	10	59	10	57	10	55
64	431	1501	63	8	59	10	61	10	59	10	57
66	445	1547	65	8	61	10	63	10	61	10	59
68	459	1593	67	8	63	10	65	10	63	10	61

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-30.5 Current Specification.

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

BRIDGE