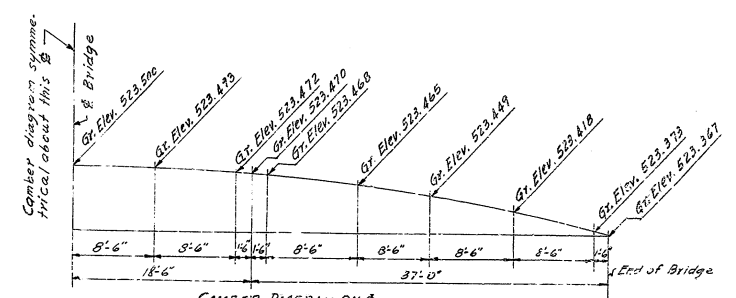
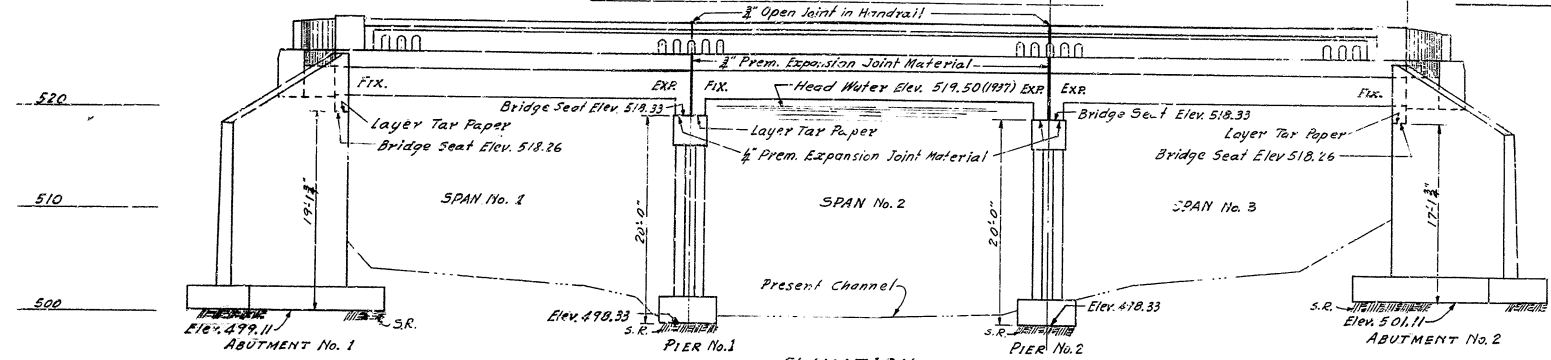


Note: Elevations shown in Camber Diagram to be maintained with false work in place.

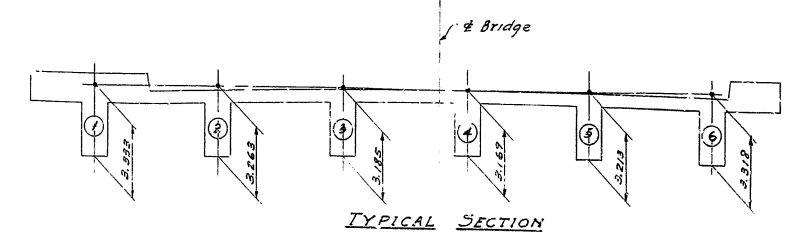


To HOPKINSVILLE

To CLARKSVILLE

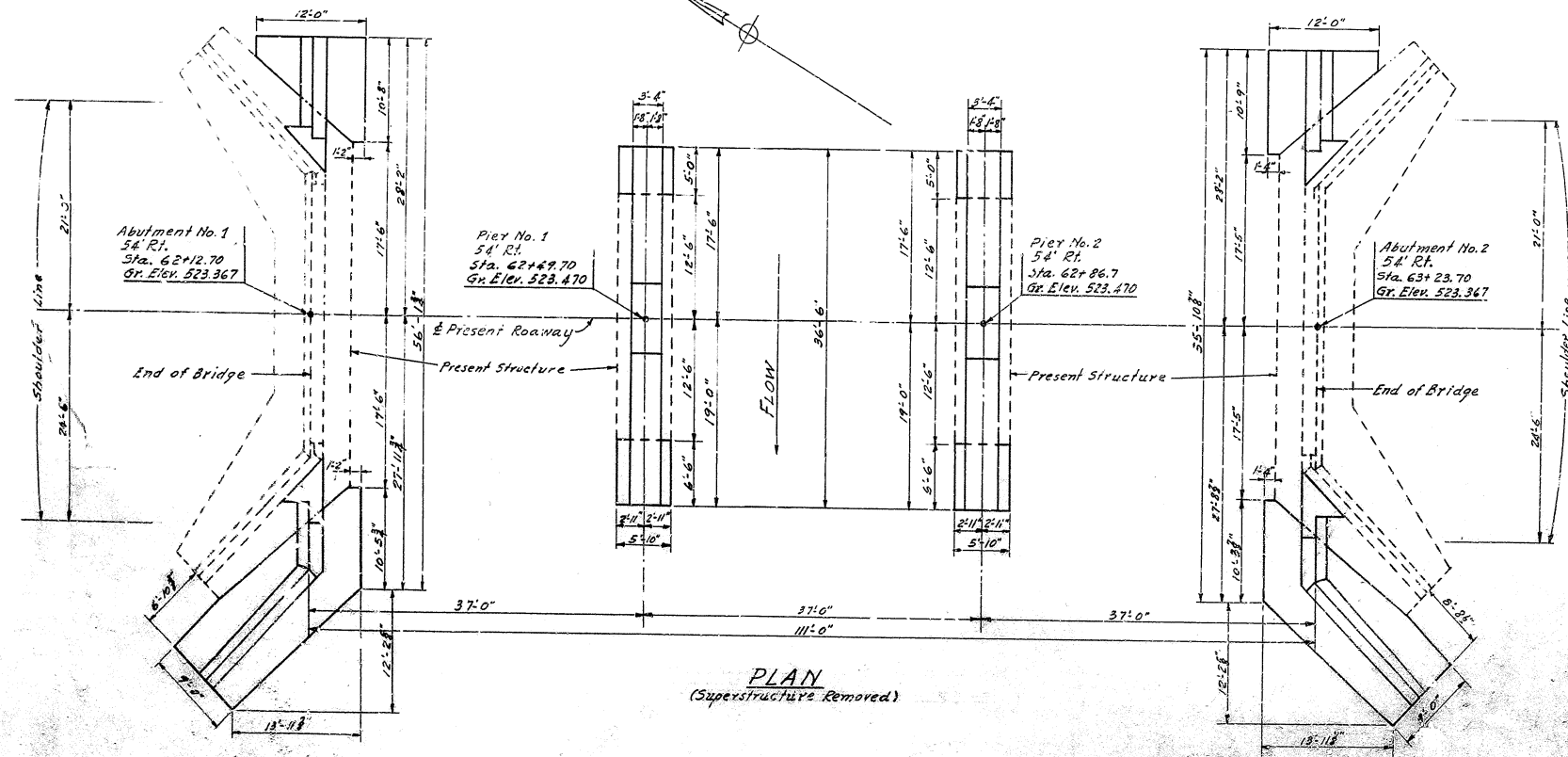


ELEVATION
 3-34'-0" R.C. Deck Girder Spans
 20'-0" Roadway - 1'-5" Sidewalk.
 4% Shoulders - 2:1 Slopes



GENERAL NOTE

- Specifications - Kentucky Department of Highways (1945 Standard with Amendments)
- Design Load - Bridge designed for H20-S16-44 loading as specified in R.S.H.O. 1953 Specifications.
- Concrete - Class "A" concrete to be used throughout except in Handrail. Class "D" concrete to be used in Handrail.
- Or Entrained - Class "A" & "D" concrete on the bridge Superstructure above construction joint of beams with underside of floor slab shall be made with normal Portland Cement to which has been added at the mixer an approved air entraining admixture as specified by amendment GR-Art. 4.1.9 of the Specifications.
- Reinforcement - Dimensions shown from face of concrete to bars are clear distances except as otherwise shown. Dimensions for bar spacing is center to center of bars. The deformations of all reinforcing bars shall conform to A.S.T.M. Spec. #305-49.
- Beveled Edges - All exposed edges shall be beveled 3" unless otherwise noted.
- Floor Drains, Expansion Joint Material, Copper Strip & Tar Paper - The cost of these items is to be included in the unit price bid for Class "A" concrete.
- Tar Paper - To be commercial grade tar paper or roofing felt approximately 1/8" thick.
- Remove Existing Structure - This contract includes the complete removal of the superstructure, parts of Abutments 1 & 2, parts of Piers 1 & 2 in accordance with the plans and specifications. The complete removal of the superstructure shall be done with care so as to expose the dowels on Abutments 1 & 2; the wings on Abutments 1 & 2 as per plans to get a smooth bridge seat; the area of Cap of Piers 1 & 2 so as to expose column and web steel to bond into the raised cap as per plans.



REFERENCES & ESTIMATE OF QUANTITIES

ITEM	Sheet No.	Concrete		Res. Force. ment	Structure Excavation		Remove Existing	Cham. Change
		Class "A" Cu. Yds.	Class "D" Cu. Yds.		Common S. R. Cu. Yds.	Excav. Cu. Yds.		
Layout	1							
Abutment 1	3	84.4		10359	80	20		
Pier 1	4	30.6		2959	5	5		
Pier 2	4	30.6		2957	5	5		
Abutment 2	5	74.8		10000	95	20		
Span 1	6, 7	90.6	19,233	7742				
" 2	6, 7	83.6	18,641	7772				
" 3	6, 7	90.6	19,233	7762				
Handrail	8		12.1	2277				
Prem. Exp. Jt. Matl.	6351							
Copper Strip	6351							
Total		485.2	12.1	61379	195	50		

BILL OF INCIDENTAL MATERIAL

ITEM	No.	Size & Descrip.	Location
Prem. Exp. Jt. Matl.	2	1/2" x 1/2" x 24"	Between Spans
"	2	1/2" x 1/2" x 24"	"
"	2	1/2" x 1/2" x 24"	"
"	2	1/2" x 1/2" x 24"	"
"	1	4" x 4" x 36"	Abut. 1 & 2
"	1	4" x 4" x 36"	Pier 1
"	1	4" x 4" x 36"	Pier 2
"	2	1/2" x 1/2" x 24"	See Sheet 2
Copper Strip	2	1/2" x 38" x 1/2"	Between Spans
"	1	See Sheet 7	See Sheet 7
Drains (D)	6	See Sheet 7	See Sheet 7
Drains (D)	6	See Sheet 7	See Sheet 7

Bridge Over South Fork of Little River. Sheet 1 of 6

COMMONWEALTH OF KENTUCKY
 DEPARTMENT OF HIGHWAYS
 FRANKFORT
 COUNTY OF
CHRISTIAN
 HOPKINSVILLE - CLARKSVILLE

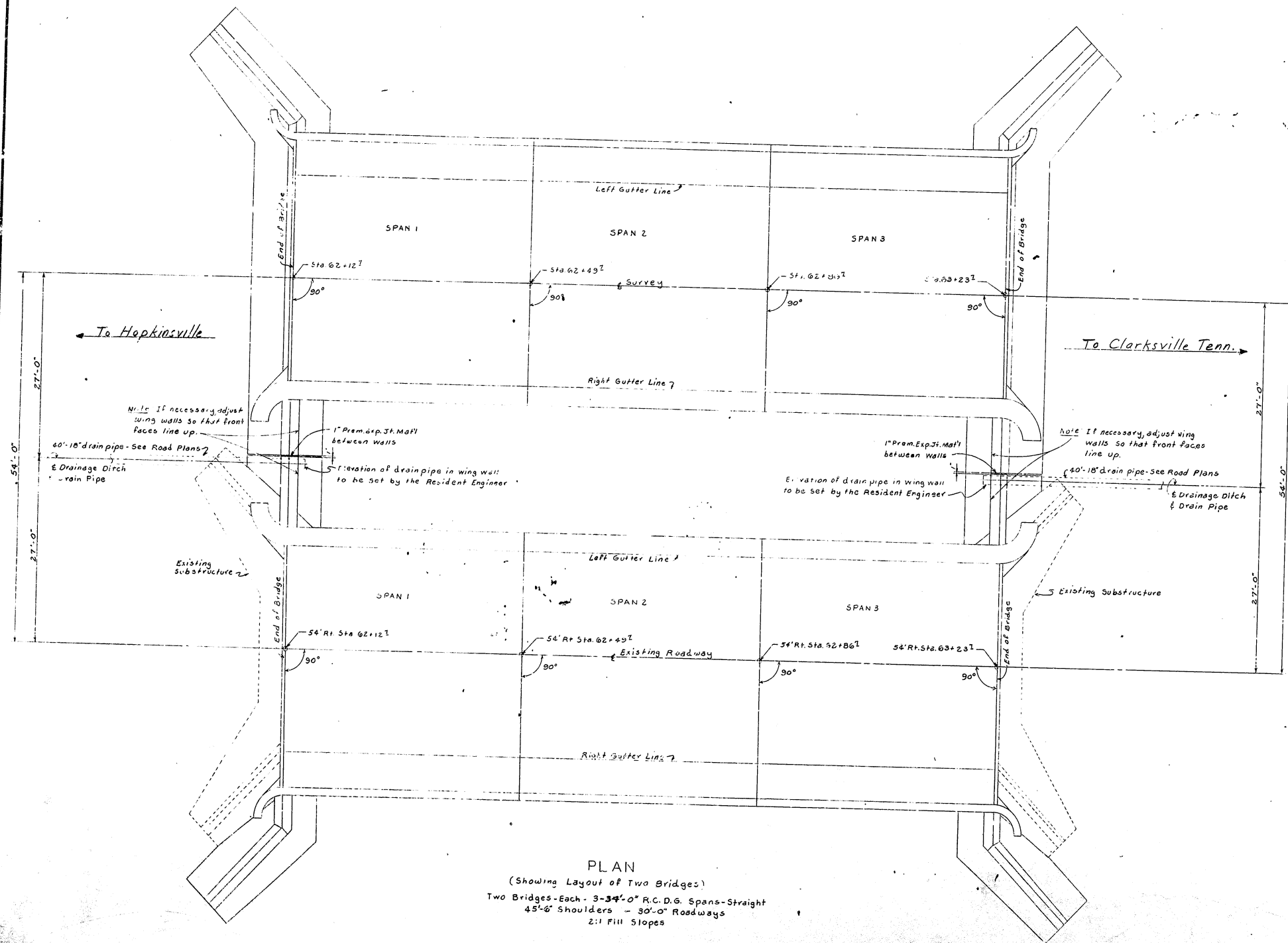
ROAD
 STATION 62+69.70 PROJECT NO. 12-190 (R)

BRIDGE NUMBER JUL 18 1958

DATE: 12/1/55
 REVISION: SPAN REINFORCEMENT
 DRAWN BY: S.G.C. (S.G. COOK)
 CHECKED BY: S.G.C. (S.G. COOK)
 DATE: 12/1/55
 PROJECT NO. 12-190 (R)

Note - The bridge on $\frac{1}{2}$ Survey @ Sta 62+68² to be built and opened to traffic before existing bridge 54' right is partially removed and rebuilt.

110	100	STATE	FED. AID	FISCAL	SCALE	TOTAL
7	NY					



PLAN
 (Showing Layout of Two Bridges)
 Two Bridges - Each - 3-34'-0" R.C.D.G. Spans - Straight
 45'-6" Shoulders - 30'-0" Roadways
 2:1 Fill Slopes

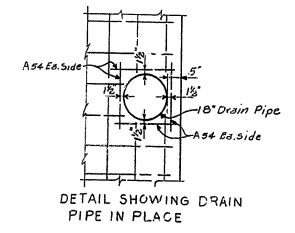
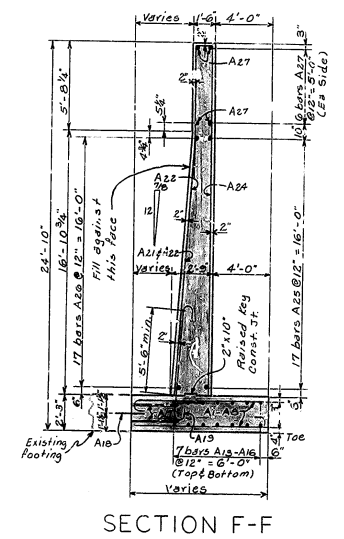
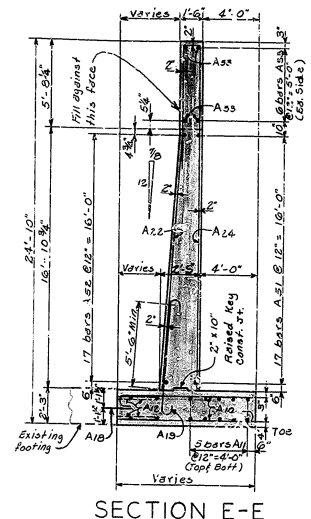
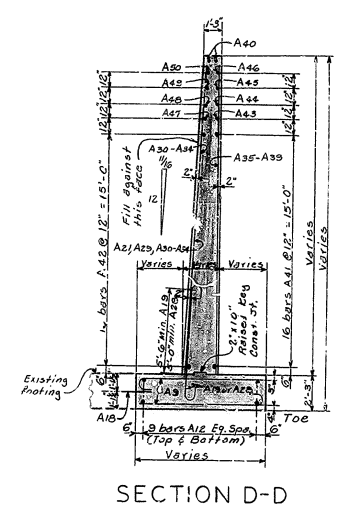
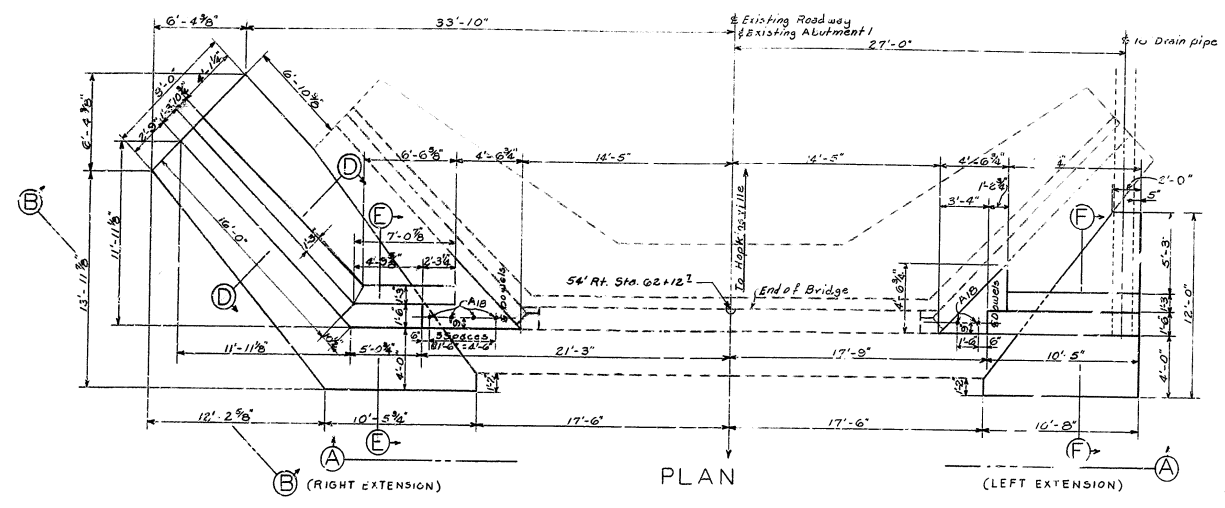
DESIGNED BY	DATE	BY	DATE
CHECKED BY	DATE	BY	DATE
APPROVED BY	DATE	BY	DATE
PROJECT NO.	DATE	BY	DATE

Bridge Over South Fork of Little River Sheet 2

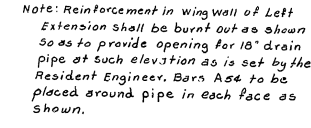
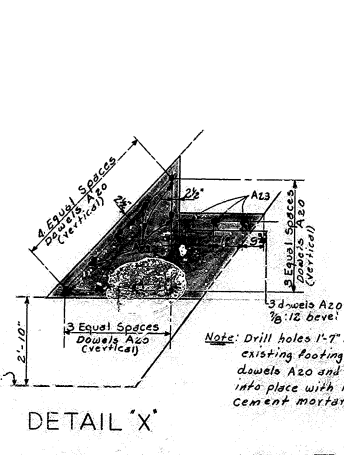
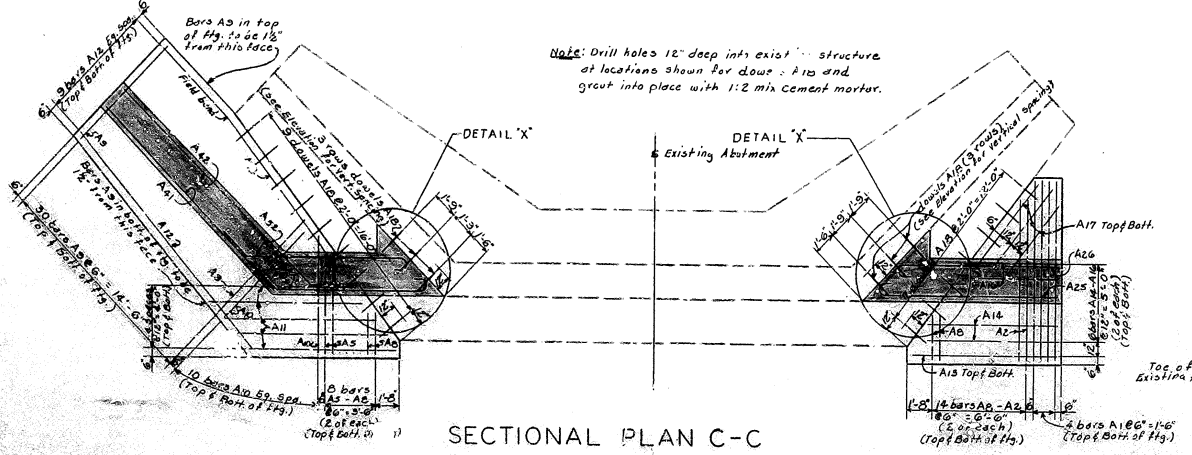
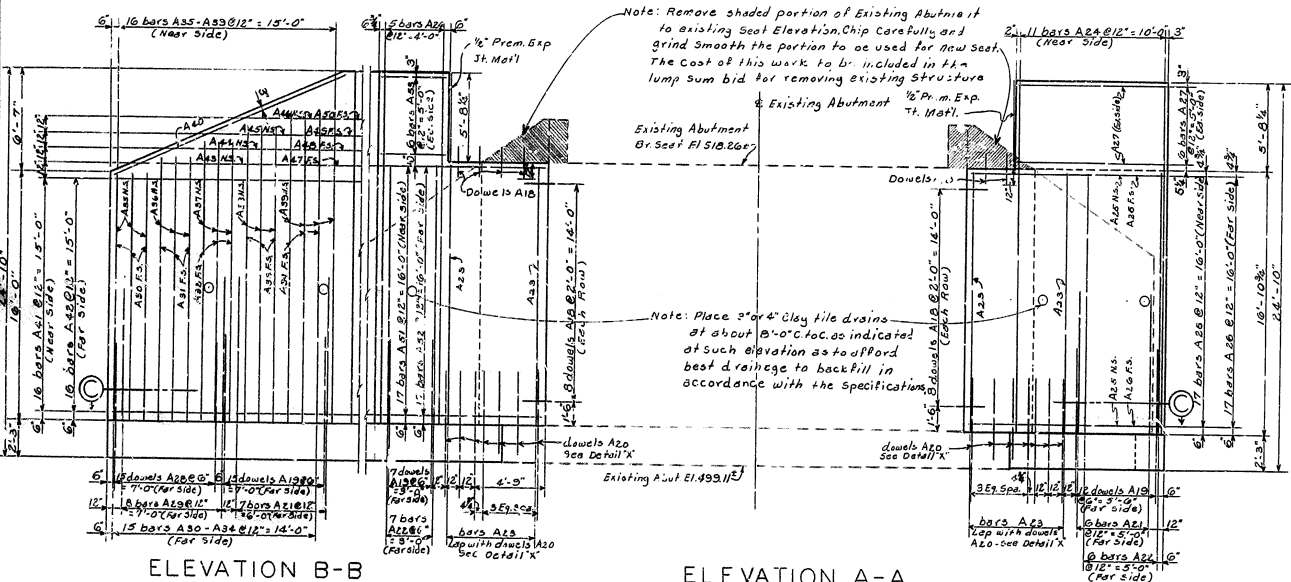
COMMONWEALTH OF KENTUCKY
 DEPARTMENT OF HIGHWAYS
 FRANKFORT
 COUNTY OF
CHRISTIAN
 HOPKINSVILLE - CLARKSVILLE

ROAD PROJECT NO.
 STATION 54' Rt. 62+68²

BRIDGE NUMBER PROJECT NO.
 12170



BILL OF REINFORCEMENT									
MARK	TYPE	NO.	BAR SIZE	LENGTH FT. IN.	LOCATION	a	b	c	d
						FT. IN.	FT. IN.	FT. IN.	FT. IN.
A1	(1)	8	7	12	Left Ext. Footing	11	5	1	2
A2	"	4	7	11	"	10	1	1	2
A3	"	4	7	10	"	8	10	1	2
A4	"	4	7	8	"	7	7	1	2
A5	"	3	7	8	"	7	7	1	2
A6	Spr.	8	6	7	Left & Right Ext. Ftgs.	6	4	1	2
A7	"	8	6	4	"	6	4	1	2
A8	"	8	6	2	"	6	4	1	2
A9	(1)	60	7	9	Right Ext. Footing	8	5	1	2
A10	Spr.	20	7	8	"	8	5	1	2
A11	"	10	4	10	"	8	5	1	2
A12	"	18	4	15	"	8	5	1	2
A13	"	2	4	10	Left	8	5	1	2
A14	"	4	4	8	"	8	5	1	2
A15	"	4	4	6	"	8	5	1	2
A16	"	4	4	5	"	8	5	1	2
A17	"	6	4	7	"	8	5	1	2
A18	(2)	34	10	0	Dowels	8	10	1	10
A21	"	13	8	10	Walls - Bk. Face - Ea. Ext.	8	10	1	10
A22	"	13	8	16	"	8	10	1	10
A23	"	20	6	16	Walls - Ea. Ext.	8	10	1	10
A24	(3)	10	5	30	Walls - Fr. Face - Ea. Ext.	22	5	1	2
A25	(1)	17	6	13	" Hor. - Left Ext.	12	6	1	0
A26	"	17	6	11	"	10	9	1	0
A27	Spr.	12	5	10	"	10	9	1	0
A28	(2)	15	9	9	Dowels	6	5	1	8
A29	Spr.	8	7	10	Wall - Bk. Face - Rt. Ext.	6	5	1	8
A30	"	3	7	15	"	6	5	1	8
A31	"	3	7	16	"	6	5	1	8
A32	"	3	7	17	"	6	5	1	8
A33	"	3	6	18	"	6	5	1	8
A34	"	3	6	19	"	6	5	1	8
A35	"	3	5	15	" Fr. Face	6	5	1	8
A36	"	3	5	16	"	6	5	1	8
A37	"	3	5	17	"	6	5	1	8
A38	"	3	5	18	"	6	5	1	8
A39	"	4	5	19	"	6	5	1	8
A40	"	2	6	17	Top of Wall	6	5	1	8
A41	"	10	5	16	Wall - Hor. Fr. Face	17	5	1	8
A42	(1)	16	5	19	" Bk. Face	17	5	1	8
A43	"	1	5	15	" Fr. Face	13	5	1	8
A44	"	1	5	12	"	10	5	1	8
A45	"	1	5	9	"	7	5	1	8
A46	"	1	5	6	"	4	5	1	8
A47	"	1	5	10	" Bk. Face	4	5	1	8
A48	"	1	5	13	"	4	5	1	8
A49	"	1	5	10	"	11	5	1	8
A50	"	1	5	7	"	8	5	1	8
A51	(3)	17	6	13	" Fr. Face	10	9	1	11
A52	(3)	17	6	13	" Bk. Face	10	9	1	11
A53	Spr.	12	5	4	" Ea. Face	10	9	1	11
A54	"	8	5	2	Around drain pipe - Lt. Ext.	10	9	1	11



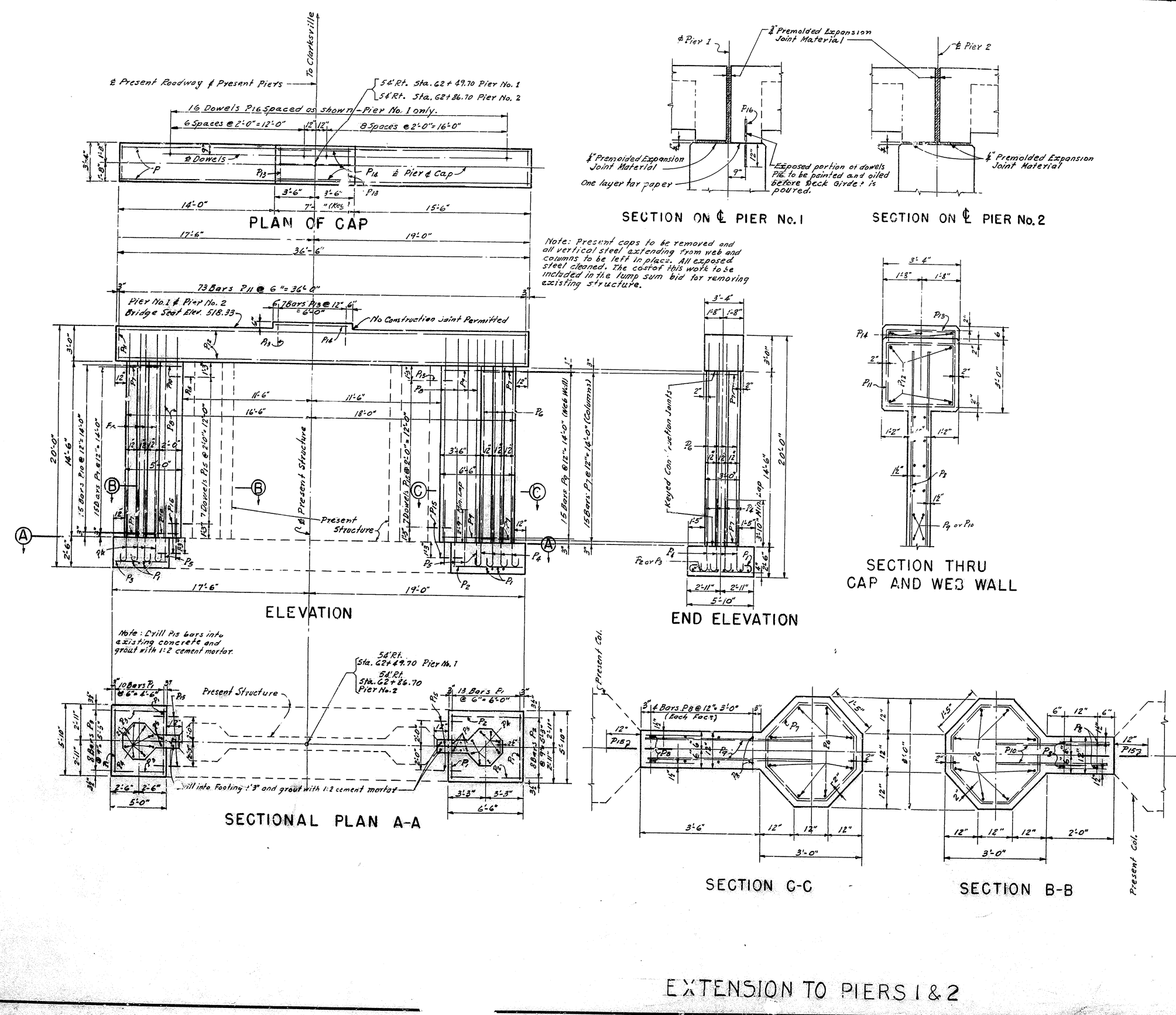
ESTIMATE OF QUANTITIES
 Concrete, Class "X" 84.4 Cu. Yds.
 Reinforcement 10,359 Lbs.

Bridge Over South Fork of Little River Sheet 5

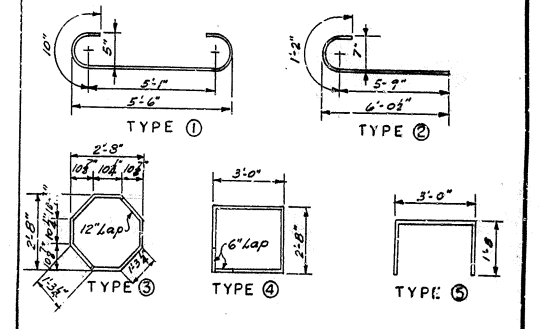
COMMONWEALTH OF KENTUCKY
 DEPARTMENT OF HIGHWAYS
 FRANKFORT
 COUNTY OF
CHRISTIAN
 HOPKINSVILLE-CLARKSVILLE

ROAD PROJECT NO.
 STATION 62+60.5
 BRIDGE NUMBER
 DRAWING NO. 12190

ABUT. I EXTENSIONS



Mark	Type	No. of Bars	Bar Length	Location				
		Pier 1	Pier 2	Total				
P1	①	23	23	44	5	6	9	Footings
P2	Stx	8	8	16	4	6	3	"
P3	"	8	8	16	4	7	"	"
P4	②	12	16	32	7	6	11	Dowels into footing
P5	Stx	12	12	24	5	4	11	"
P6	"	16	16	32	7	17	0	Columns
P7	③	30	30	60	4	9	6	Hoops in Columns
P8	Stx	12	12	24	5	17	0	Web Walls
P9	"	15	15	30	4	4	15	"
P10	"	15	15	30	3	4	"	"
P11	④	73	73	146	5	12	0	Hoops in Cap
P12	Stx	4	4	8	8	36	3	Cap
P13	⑤	7	7	14	5	6	2	Key
P14	Stx	3	3	6	4	6	9	"
P15	"	20	20	40	4	2	0	Dowels into Col. & Footings
P16	"	16	16	32	2	0	0	Dowels in Cap



ITEM	CONCRETE CLASS "A" CU. YDS.	REINFORCEMENT LBS.
PIER NO. 1	30.6	2959
PIER NO. 2	30.6	2987

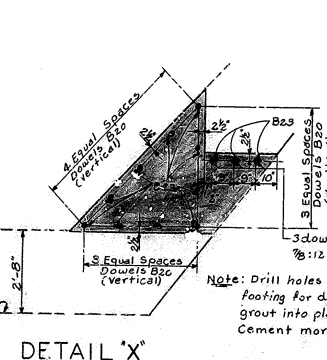
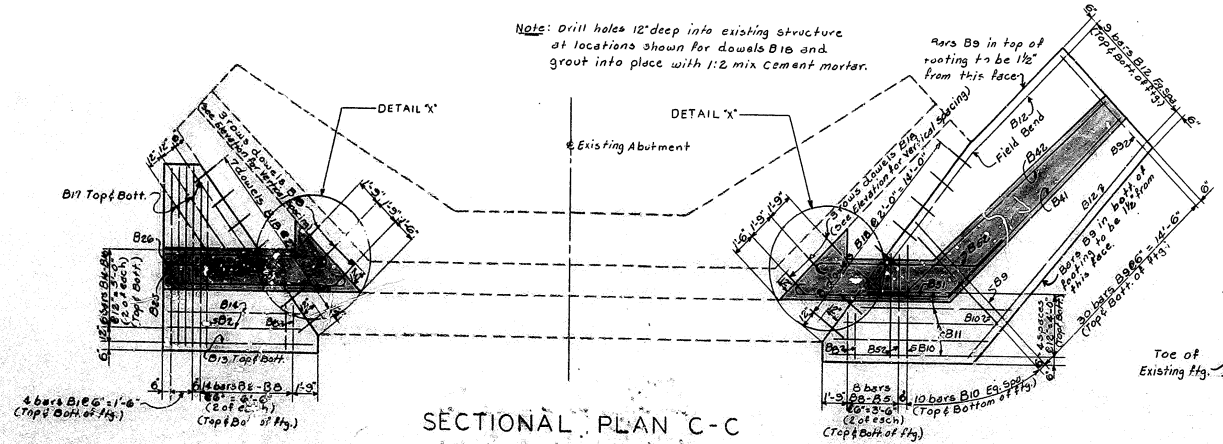
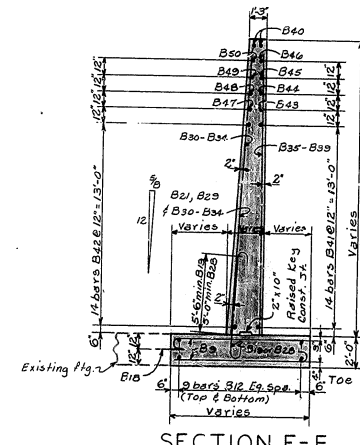
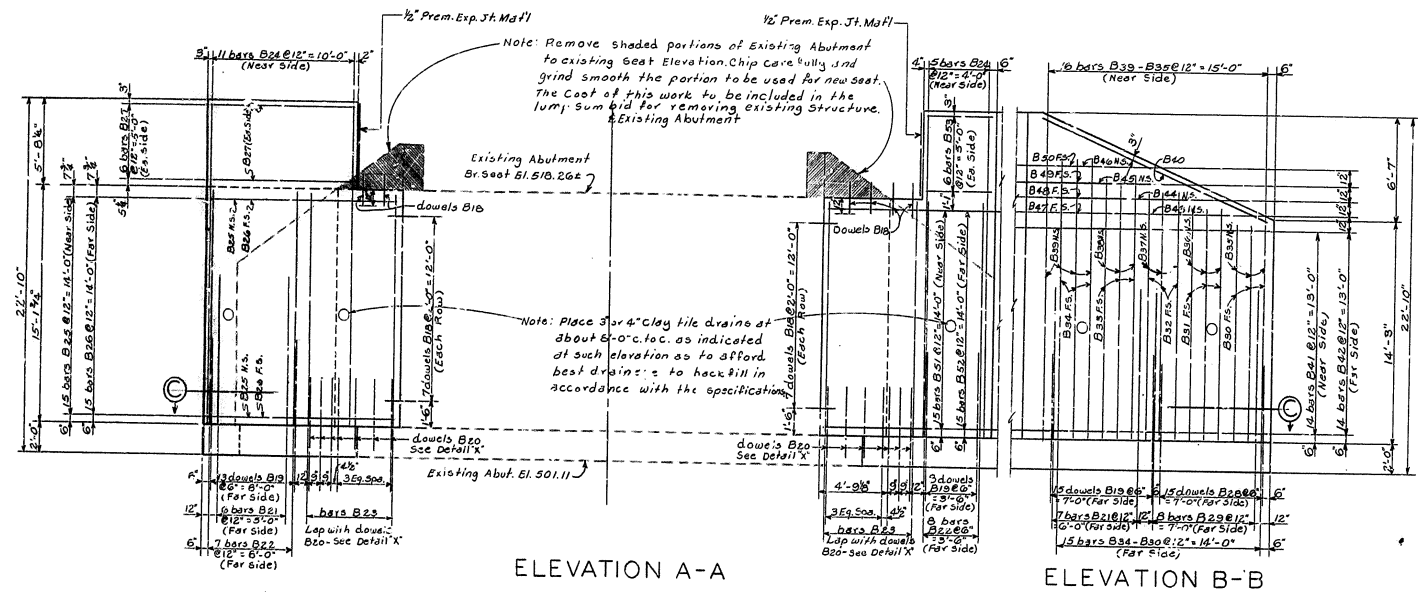
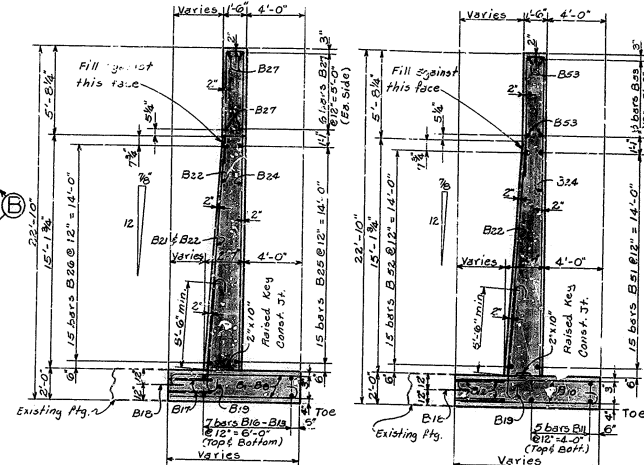
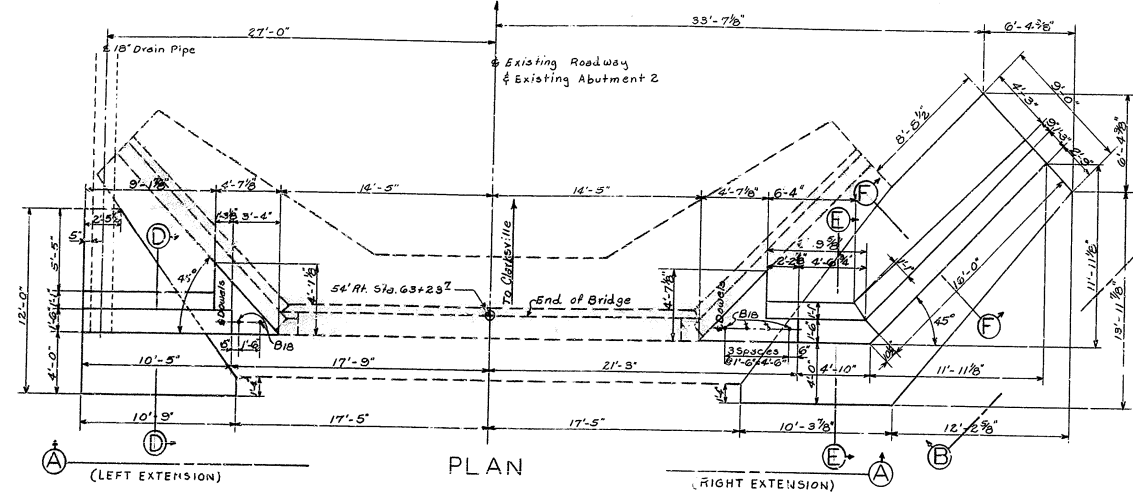
Bridge Over South Fork of Little River. Sheet 4.

COMMONWEALTH OF KENTUCKY
 DEPARTMENT OF HIGHWAYS
 FRANKFORT
 COUNTY OF
CHRISTIAN
 HOPKINSVILLE - CLARKSVILLE

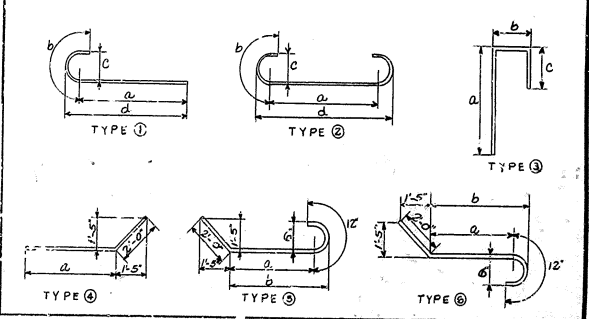
54 RT. ROAD
 STATION 62+68.20 PROJECT NO.
 BRIDGE NUMBER DRAWING NO. 12190

EXTENSION TO PIERS 1 & 2

DATE: _____
 REVISION: _____
 DATE: _____
 REVISION: _____
 DATE: _____
 REVISION: _____



BILL OF REINFORCEMENT									
MARK	TYPE	NO.	BAR SIZE	LENGTH FT.	LOCATION	Q	S	C	TOTAL
						FT.	IN.	FT.	IN.
B1	⊙	8	7 12	7	Footings - Lt. Ext.	11	5	1	2
B2	"	4	7 11	0	"	10	6	1	2
B3	"	4	7 10	3	"	9	5	1	2
B4	"	4	7 9	2	"	8	0	1	2
B5	"	8	7 7	11	"	6	9	1	2
B6	Str.	9	6 5	9	"	8	0	1	2
B7	"	9	6 4	6	"	6	9	1	2
B8	"	8	6 3	3	"	6	8	1	2
B9	⊙	20	7 9	7	"	8	5	1	2
B10	Str.	20	7 8	0	"	8	5	1	2
B11	"	10	4 10	1	"	10	4	1	0
B12	"	18	4 10	3	"	10	4	1	0
B13	"	2	4 10	6	"	10	4	1	0
B14	"	4	4 9	5	"	10	4	1	0
B15	"	4	4 7	11	"	10	4	1	0
B16	"	4	4 6	4	"	10	4	1	0
B17	"	6	4 7	0	"	10	4	1	0
B18	"	63	4 2	0	Dowels	20	8	1	2
B19	⊙	36	10 10	3	Dowels - Bk. Face	6	7	1	10
B20	Str.	26	6 9	8	"	10	1	0	0
B21	"	13	8 10	0	"	10	1	0	0
B22	"	15	8 10	0	"	10	1	0	0
B23	"	26	6 15	0	"	10	1	0	0
B24	⊙	16	5 28	6	"	10	1	0	0
B25	⊙	15	6 13	4	Wall - Fr. Face - Lt. Ext.	12	4	1	0
B26	"	15	6 11	10	"	10	1	0	0
B27	Str.	12	5 10	2	"	10	1	0	0
B28	⊙	19	9 9	6	Dowels - Bk. Face - Rt. Ext.	6	2	1	8
B29	Str.	8	7 10	0	Wall	6	2	1	8
B30	"	3	7 13	9	"	6	2	1	8
B31	"	3	7 14	9	"	6	2	1	8
B32	"	3	7 15	9	"	6	2	1	8
B33	"	3	8 16	9	"	6	2	1	8
B34	"	3	8 17	9	"	6	2	1	8
B35	"	3	8 18	9	"	6	2	1	8
B36	"	3	8 19	9	"	6	2	1	8
B37	"	3	8 20	9	"	6	2	1	8
B38	"	3	8 21	9	"	6	2	1	8
B39	"	3	8 22	9	"	6	2	1	8
B40	"	2	6 17	3	Top of Wing Wall	17	9		
B41	"	14	5 16	7	Wall - Hor. Fr. Face - Rt. Ext.	17	9		
B42	⊙	14	5 19	9	"	17	9		
B43	"	1	5 15	7	"	13	7		
B44	"	1	5 12	7	"	10	7		
B45	"	1	5 9	7	"	7	7		
B46	"	1	5 6	7	"	4	7		
B47	"	1	5 16	9	"	14	9		
B48	"	1	5 13	9	"	11	9		
B49	"	1	5 10	9	"	8	9		
B50	"	1	5 7	9	"	5	9		
B51	⊙	15	6 13	5	"	10	5	10	8
B52	⊙	15	6 14	0	"	11	0	11	3
B53	Str.	12	5 4	7	"	11	0	11	3
B54	"	8	5 2	3	Around Drain Pipe - Lt. Ext.				

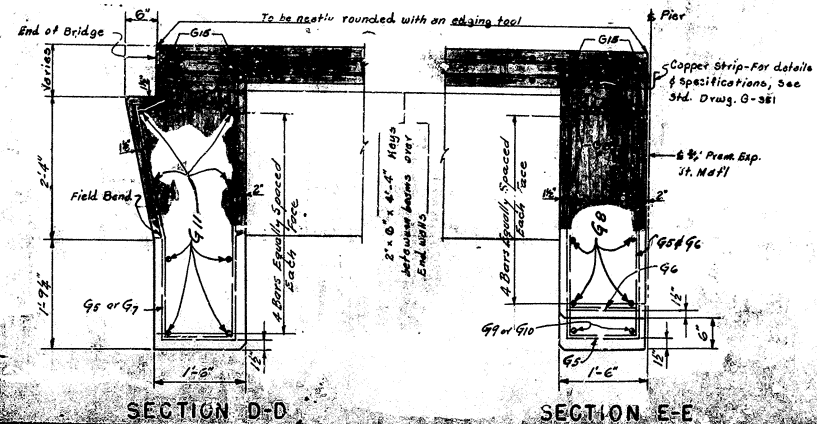
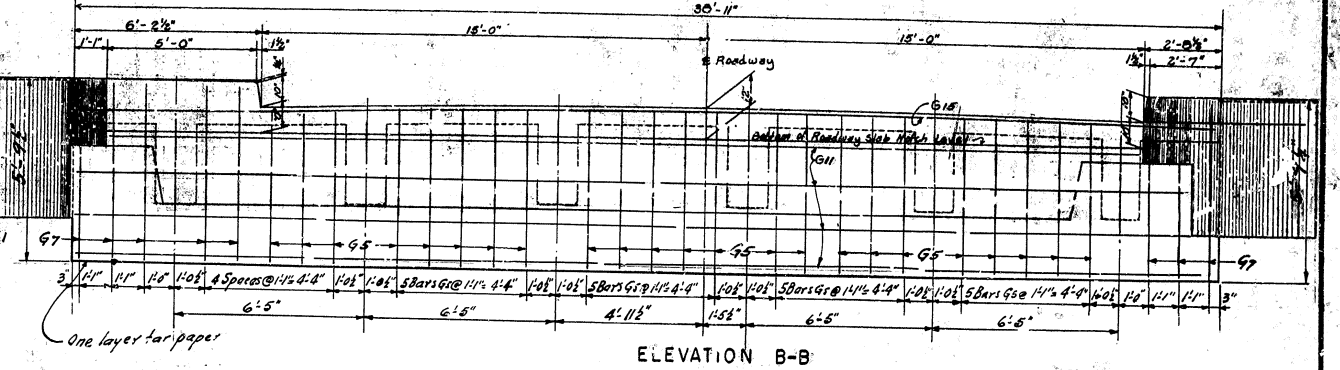
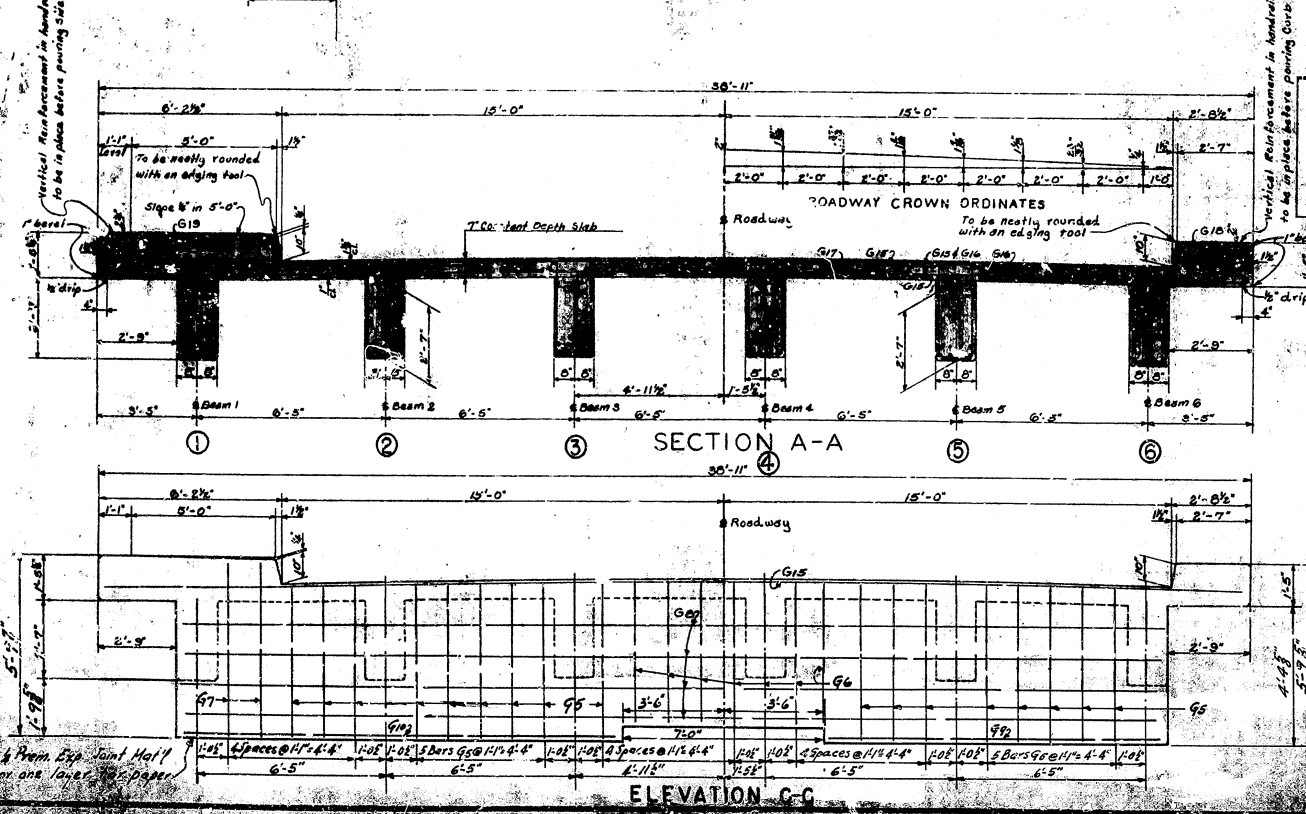
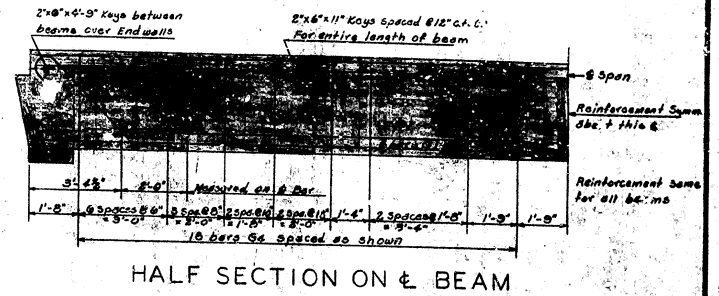
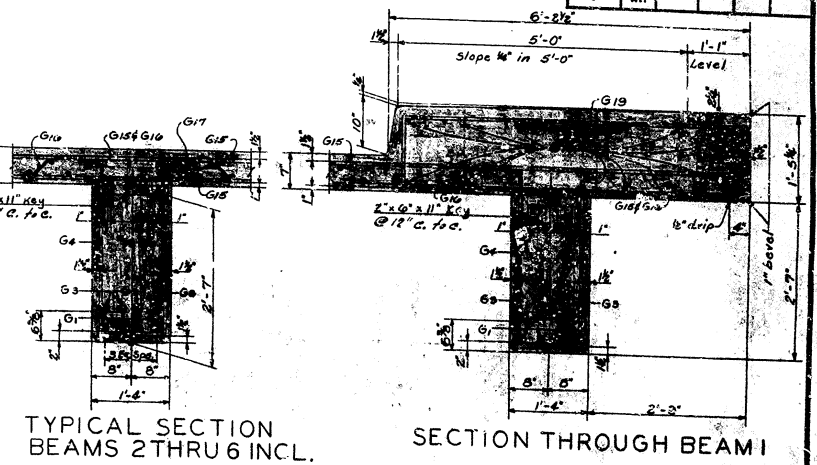
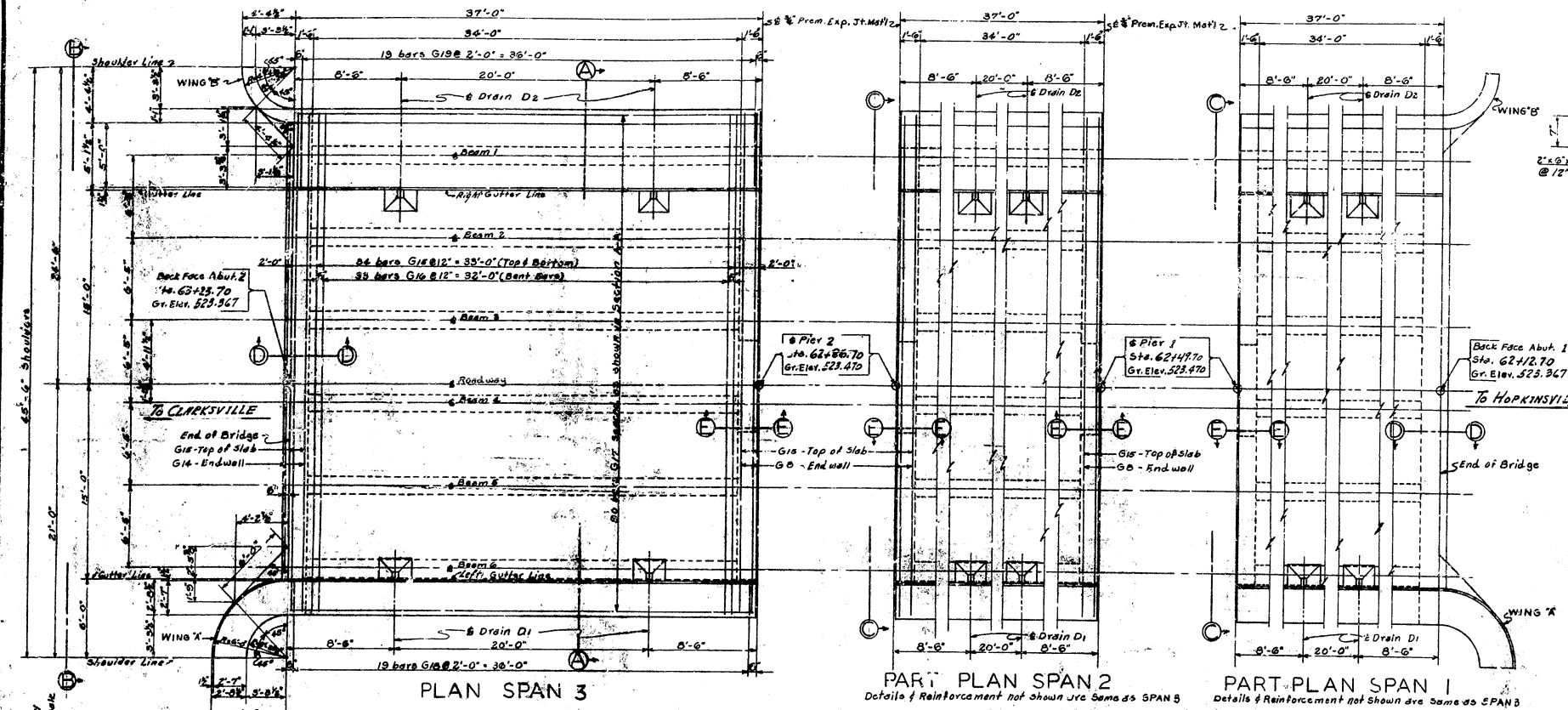


ESTIMATE OF QUANTITIES
 Concrete, Class 'X' 74.8 Cu. Yds.
 Reinforcement 10,000 Lbs.

COMMONWEALTH OF KENTUCKY
 DEPARTMENT OF HIGHWAYS
 FRANKFORT
 COUNTY OF
 CHRISTIAN
 HOPKINSVILLE-CLARKSVILLE
 ROAD PROJECT NO.
 STATION 54+82.2
 BRIDGE NUMBER 62-008
 SHEET 5
 NO. 12190

ABUT. 2 EXTENSIONS

NO.	DATE	BY	CHK.	APP.	REVISION
7	NY				



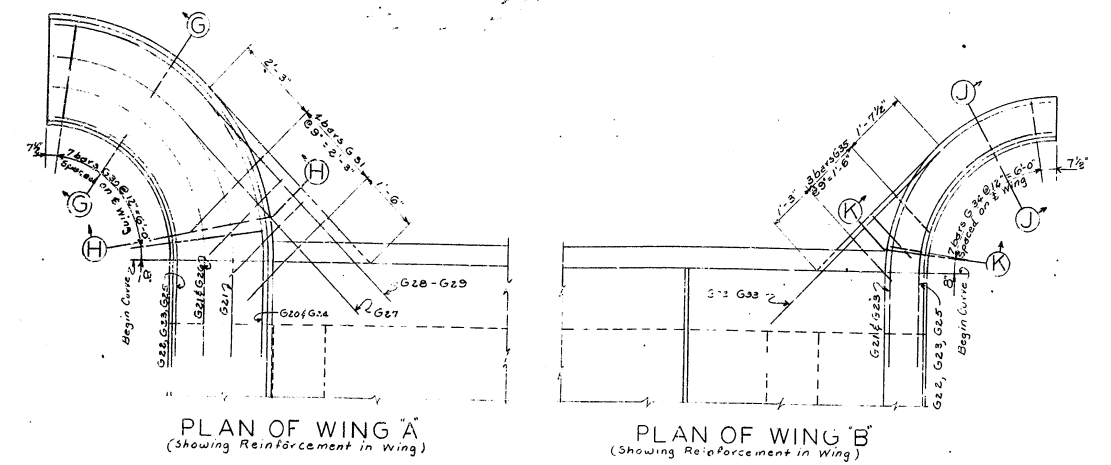
SPANS 1, 2 & 3

WORK SHEETS 6 & 7 TOGETHER

Bridge Over South Fork of Little River Sheet 6

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF
CHRISTIAN
HOPKINSVILLE-CLARKSVILLE

54 RT.
STATION 62+00 ROAD PROJECT NO.
DRAWN 12/190

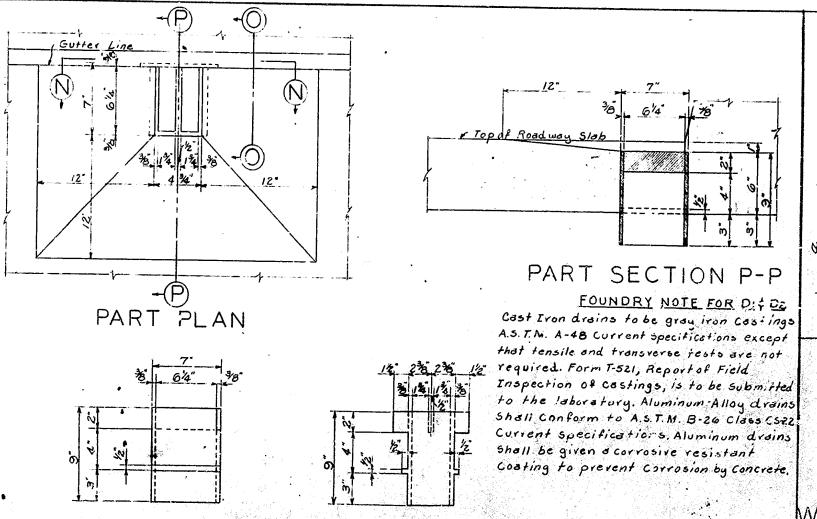
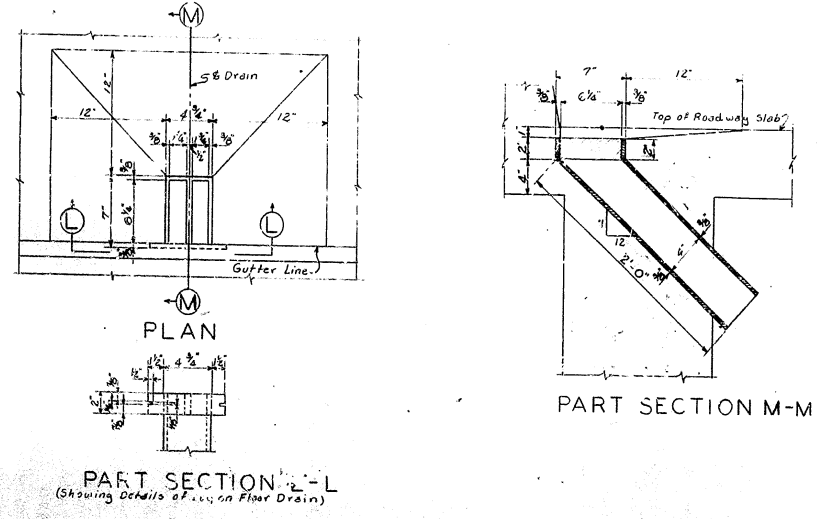
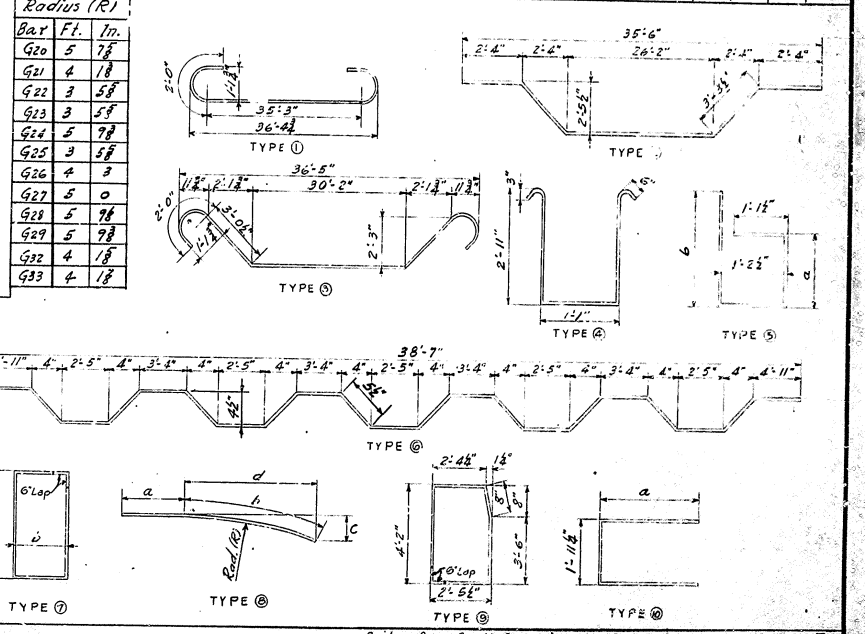
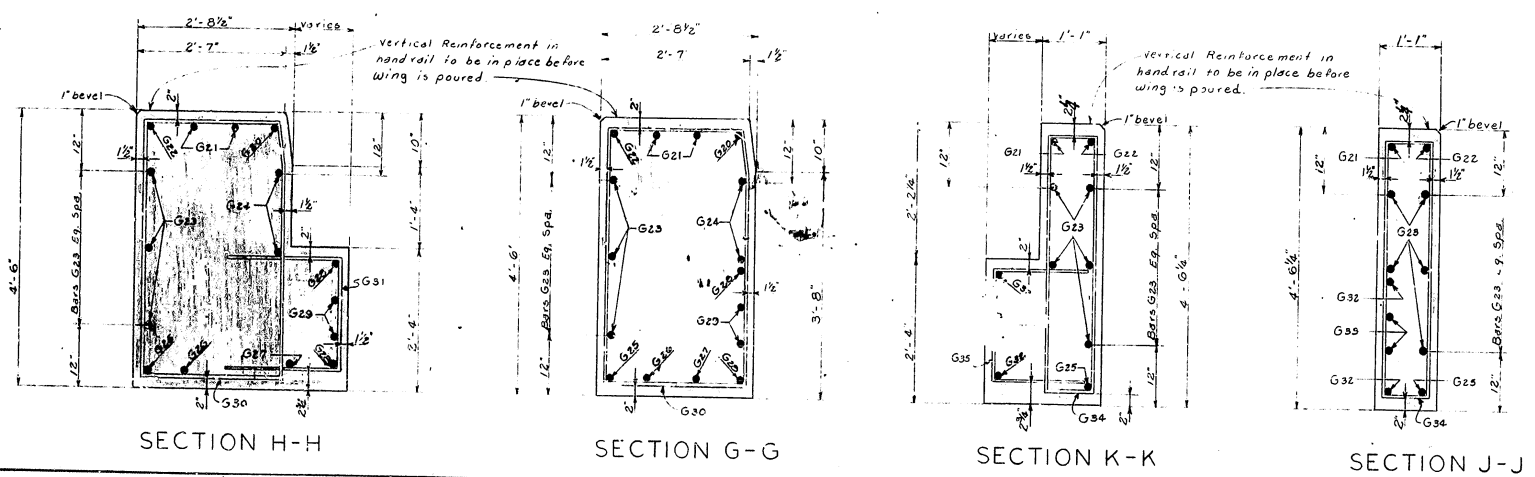


ESTIMATE OF QUANTITIES

SPAN 1	Concrete, Class 'A'	90.6	Cu. Yds.
	Reinforcement	178.5	Lbs.
SPAN 2	Concrete, Class 'A'	81.6	Cu. Yds.
	Reinforcement	172.7	Lbs.
SPAN 3	Concrete, Class 'A'	90.6	Cu. Yds.
	Reinforcement	180.5	Lbs.

BILL OF REINFORCEMENT

MARK	TYPE	NUMBER OF BARS			SIZE	LENGTH	LOCATION	FT.		IN.	
		Span	Wings	Total				IN.	FT.	IN.	FT.
G1	①	24	24	48	11	37	Beams				
G2	②	12	12	24	12	37	"				
G3	③	12	12	24	12	37	"				
G4	④	222	222	444	4	7	Beams-Stirrups				
G5	⑤	40	40	80	7	9	And Walls				
G6	⑥	7	7	14	7	7	"				
G7	⑦	10	10	20	11	7	"				
G8	⑧	16	16	32	11	7	"				
G9	⑨	2	2	4	11	2	"				
G10	⑩	2	2	4	14	7	"				
G11	⑪	8	8	16	11	7	"				
G12	⑫						"				
G13	⑬						"				
G14	⑭	33	33	66	5	35	Slab				
G15	⑮	33	33	66	9	10	"				
G16	⑯	20	20	40	4	36	Slab & Curbs				
G17	⑰	19	19	38	7	9	Curbs				
G18	⑱	19	19	38	7	9	"				
G19	⑲	19	19	38	14	9	"				
G20	⑳	1	1	2	8	10	Wings				
G21	㉑	3	3	6	8	6	"				
G22	㉒	2	2	4	7	6	"				
G23	㉓	8	8	16	4	6	"				
G24	㉔	2	2	4	10	1	"				
G25	㉕	2	2	4	6	10	"				
G26	㉖	1	1	2	8	10	"				
G27	㉗	1	1	2	10	4	"				
G28	㉘	2	2	4	11	3	"				
G29	㉙	2	2	4	11	3	"				
G30	㉚	7	7	14	5	13	"				
G31	㉛	4	4	8	7	9	"				
G32	㉜	2	2	4	6	9	"				
G33	㉝	2	2	4	4	7	"				
G34	㉞	7	7	14	5	10	"				
G35	㉟	3	3	6	4	1	"				



FOUNDRY NOTE FOR D1 & D2
 Cast Iron drains to be Gray Iron Castings A.S.T.M. A-48 Current specifications except that tensile and transverse tests are not required. Form F-521, Report of Field Inspection of Castings, is to be submitted to the Laboratory, Aluminum Alloy drains shall conform to A.S.T.M. B-26 Class C522 Current specifications. Aluminum drains shall be given a corrosion resistant coating to prevent corrosion by concrete.

DETAILS OF FLOOR DRAINS D1
 6 Drains D1 Required — Estimated Wt. Each (Cast Iron = 45 Lbs. Aluminum = 18 Lbs.)

DETAILS OF FLOOR DRAINS D2
 6 Drains D2 Required — Estimated Wt. Each (Cast Iron = 24 Lbs. Aluminum = 9 Lbs.)

WORK SHEETS 6 & 7 TOGETHER
 SPANS 1, 2 & 3

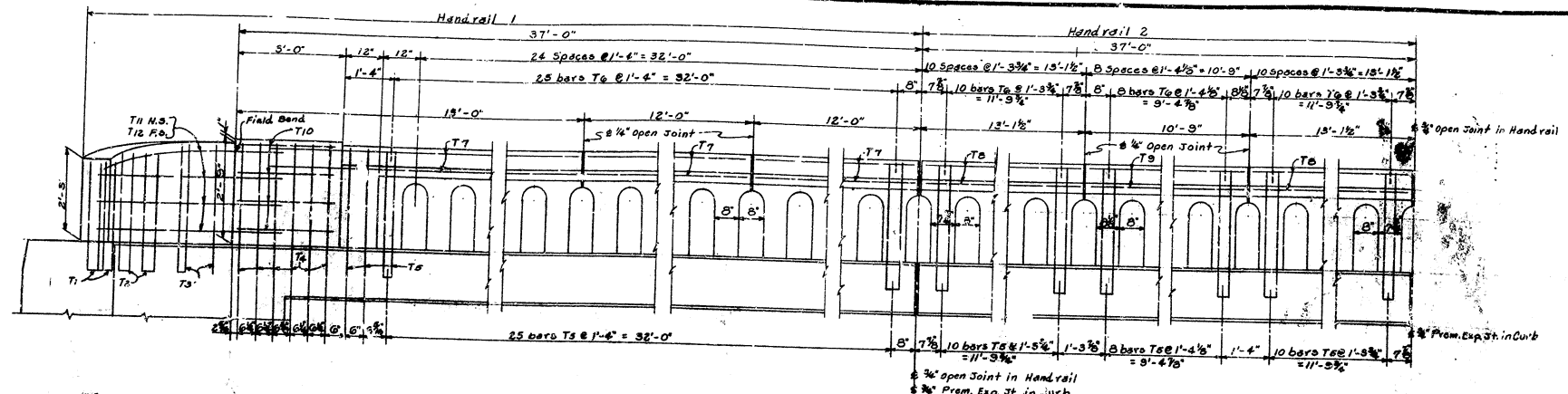
Bridge Over South Fork of Little River Sheet 7

COMMONWEALTH OF KENTUCKY
 DEPARTMENT OF HIGHWAYS
 FRANKFORT
 COUNTY OF
 CHRISTIAN
 HOPKINSVILLE-CLARKSVILLE

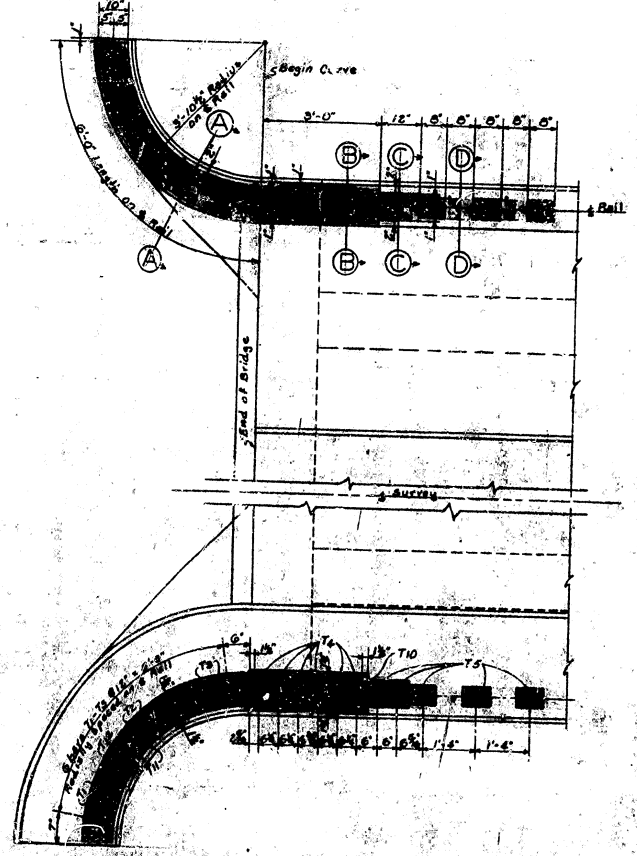
ROAD PROJECT NO.
 STATION 02+68.8

BRIDGE NUMBER
 DRAWING NO. 12190

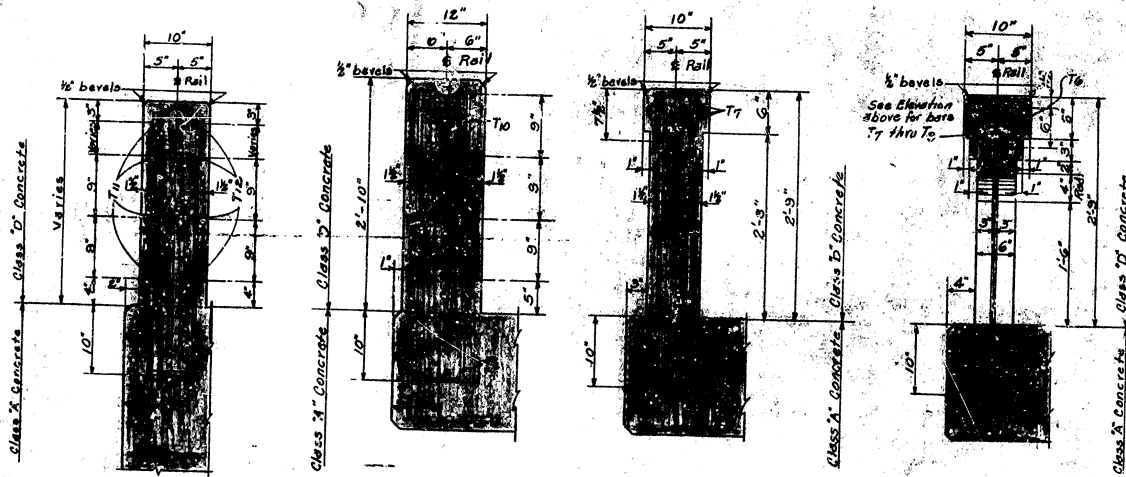
DRAWN BY: C.B. COOK
 CHECKED BY: [Signature]
 DATE: 3/22
 PROJECT NO. 615
 SHEET NO. 6 & 7 TOGETHER
 SPANS 1, 2 & 3



PART ELEVATION

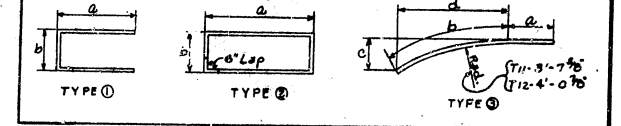


PART SECTIONAL PLAN



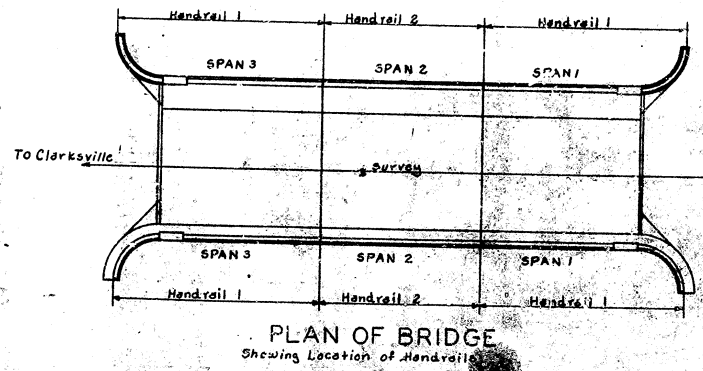
PART SECTION A-A PART SECTION B-B PART SECTION C-C PART SECTION D-D

MARK	TYPE	No.	LAP LENGTH	LOCATION	A		B		C		D	
					FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.
T1	①	3	5 6 3	Curved Posts - HR1	3	0	0	7				
T2	"	3	5 6 3	"	3	2	0	7				
T3	"	6	5 7 1	"	3	4	0	7				
T4	"	24	5 7 7	Posts - HR1	3	0	0	7				
T5	"	120	5 7 2	Spindles - HR1 & HR2	3	5	0	3				
T6	"	150	4 0 11	Rails - HR1 & HR2	0	3	0	7				
T7 Str.	"	36	4 11 3	" HR1								
T8	"	12	4 12 10	" HR2								
T9	"	6	4 10 6	"								
T10	②	16	4 7 3	Posts - HR1	2	3	0	3				
T11	③	18	4 6 7	Curved Posts - HR1	1	1	3	6	3	5	3	7
T12	"	16	4 7 3	"	1	1	6	2	3	10	4	0



CONCRETE, Class X	12.1 Cu. Yds.
REINFORCEMENT	2279 Lbs.

NOTE:
All exposed edges of Posts to be beveled 1/2". All other edges to be beveled 1/4" unless otherwise shown.



PLAN OF BRIDGE
Showing Location of Handrails

DETAILS OF HANDRAIL

Bridge Over South Fork of Little River Sheet 8

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF
CHRISTIAN
HOPKINSVILLE-CLARKSVILLE

54' Rt. ROAD PROJECT NO.
STATION 62+68

BRIDGE NUMBER DRAWING NO. 12190