

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				

REFERENCE AND ESTIMATE OF QUANTITIES													
ITEM	SHEET NUMBER	CONCRETE CLASS "A" CU. YDS.	CONCRETE CLASS "A" CU. YDS.	STEEL REINFORCEMENT LBS.	STRUCTURAL COMMON CU. YDS.	EXCAV. SOLID ROCK CU. YDS.	SODDING SQ. YDS.	HIGH STRENGTH HANDRAIL LIN. FT.	STYRENE BUTADIENE PROTECT COATING GAL.S.	STRUCTURAL STEEL LUMP SUM	END BENT BACKFILL CU. YDS.	PILENG FURNISH LIN. FT.	12 DP 53 DRIVEN LIN. FT.
TITLE SHEET & QUANTITIES	1												
GENERAL NOTES	2												
LAYOUT SHEET	3						2834						
SOUNDINGS & CORE LAYOUT	4												
ABUTMENT NO. 1 DETAILS	5-6	20.0	26.5	5253	100				1		50	552	552
PIER NO. 1 DETAILS	7		141.2	26202	460	20			2				
PIER NO. 2 DETAILS	8		157.7	28645	500	30			2				
ABUTMENT NO. 2 DETAILS	5-6	201	26.5	5253	100				1		50	732	732
SUPERSTRUCTURE DETAILS	9,10,11,12	79.7		176,413				621.5	13	①			
CONSTRUCTION ELEVATIONS	13												
TOTAL SUBSTRUCTURE		40.1	351.9	65,523	1160	50	2834		6		100	1284	1284
TOTAL SUPERSTRUCTURE		79.7		176,413				621.5	13	①			
GRAND TOTAL		759.8	351.9	241,966	1160	50	2834	621.5	19	①	100	1284	1284

STANDARD DRAWINGS LISTED BELOW ARE THE CURRENT EDITION AND ARE TO BE USED WITH THESE PLANS

ED3B STANDARD EXPANSION DAM FOR CONCRETE SPANS
WITH CURBS

AE 1-B	STANDARD ARMORED EDGE FOR CONCRETE
SF2A	STANDARD DETAILS FOR PLACING END BENT BACKFILL AND EARTH CORE
S52A	STANDARD STEEL BEARING SHOES FOR CONC. SPANS
G354C	PREINJECTED CORK EXPANSION JOINT MATERIAL
H17C	STANDARD HIGH STRENGTH ALUMINUM HALFWALL
P012A	STANDARD 12 STEEL BEARING PILE AT 33 LBS.
17.40	GUARDRAIL CONNECTOR TO BRIDGE WINGS.

#12	FOR JOINT SEALING COMPOUND
#135-B	FOR CLASS "A" CONCRETE
#30-B	MEMBRANE CURING FOR CONCRETE STRUCTURES
#77-B	STYRENE BUTADIENE PROTECTIVE COATING
79	Concrete Bridge Deck Finishing Machine
80	Blast Cleaning and Painting Structural Steel

BILL OF INCIDENTAL MATERIALS			
ITEM	NUMBER PIECES	SIZE	LOCATION
PREMOLDED CORK EXP.JT.MATL	2	1/4"x4"x1/8"	OVER KEY @ ABUT.
JOINT SEALING COMPOUND	2	1"x3 1/2"x2'-0"	EXPANSION DAMS
FOUR BOLT INSERT ASSEMBLY	4		SEE ROWDY PLAN

SEE STD. DRWG. G.354

① APPROXIMATE WEIGHT OF STRUCTURAL STEEL 19427 LBS

BRIDGE OVER FLOYDS FORK SHEET 1 OF 13

COMMONWEALTH OF KENTUCKY

DEPARTMENT OF HIGHWAYS

FRANKFORT

BULLITT

**BELLS MILL
ROAD**

STATION	21+25.00	PROJECT NO. RL 15-794-5
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BRIDGE NUMBER	DESIGN NO. 17586	INDX
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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 H20-44 live load as specified in 1965 AASHTO Specifications. This bridge is designed for a wind load based on a wind velocity of 84 mph.

DESIGN STRESSES: For reinforced concrete use the following:

Class "A"	Class "AA"
$f_s = 20,000$ psi	$f_s = 20,000$ psi
$f_c = 1,200$ psi	$f_c = 1,600$ psi for other than slabs
$f_c = 3,000$ psi	$f_c = 1,100$ psi for deck slabs
u (for embed) ≤ 200 psi	$f_c = 4,000$ psi
u (for Σc) ≤ 300 psi	u (for embed) ≤ 200 psi
$n = 10$	u (for Σc) ≤ 300 psi
	$n = 8$

FOUNDATION PRESSURE: Footings are designed for a maximum pressure of 10,190 psf. Piles are designed for a maximum axial load of 359 tons per pile and a maximum horizontal shear of 19 tons per pile. These maximums are for Group 1 loads with increases allowed for other loading groups.

CONCRETE: Class "AA" concrete is to be used throughout the superstructure, and is to be used in the portions of the substructure above the bearing seats. Class "A" concrete is to be used in the substructure below the bearing seats.

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.

BILL OF INCIDENTAL MATERIALS: The quantities shown in the Bill of Incident Materials 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.

PAYMENT FOR STRUCTURAL STEEL: The Lump Sum Bid for structural steel shall be full payment for all structural steel, rivets, bolts, washers, steel pins, cast iron, lead plates, molten lead, welding and welding materials, floor drains, 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 overrun or weld material.

PILING: 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. All test piles shall be accurately located so that they may be used in the finished structure.

CONCRETE FINISH: The rubbed surface finish specified in Article 403.3.8.C of the Specifications does not apply to the piers, abutments, and exterior beams of this structure.

PLAN ELEVATION FOR FOOTINGS: When suitable rock is encountered at a datum elevation higher than the plan elevation, the higher elevation may be utilized for bearing as outlined in the Specifications.

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.

MATERIALS: ASTM Specifications, current edition, as designated below, shall govern the materials furnished.

- A36-67 Structural Steel, 36,000 psi Minimum Yield
- A48-64 Gray Iron Castings, Class 30 A
- B 29-55(1966) Sheet Lead 4 Pq Lead

POURING SEQUENCE: Pour the girder stem in one continuous operation in horizontal layers for each girder. Pour endwalls and diaphragms with girder stem by providing vertical construction joints midway between girders. The pouring sequence of the slab may be changed with the written approval of the Engineer.

COFFERDAMS: Cofferdams shall be required for Piers #14*2 and all provisions of the Specifications shall apply, except as herein modified. Contractor shall submit drawings for approval which show his proposed method of cofferdam construction. Cofferdam construction shall not start before these submitted drawings are approved. Sheeting shall be driven to refusal into the hard foundation material. Cofferdams shall be well braced, as near water tight as practical and shall be constructed to allow concrete foundation seal of the dimensions shown on the plans. Cofferdams which are tilted or moved laterally during construction due to any cause shall be righted, reset or enlarged so as to provide the clearance necessary for the construction of the substructure as shown on the plans, and this shall be at the sole expense of the Contractor. All sheeting shall be removed or cut off at the top of the concrete foundation seal. The cost of the cofferdams is incidental to and included in the Unit Price Bid for "Structure Excavation" (See Spec. 105.5c).

PROTECTIVE COATINGS: Protective coating shall be furnished and applied in accordance with Special Provision 77B For "Styrene-Butadiene Protective Coating", current edition.

ANCHOR BOLT HOLES: Holes of depth and dimensions shown shall be drilled for anchor bolts or dowels by the superstructure contractor who shall be responsible for keeping holes dry in freezing weather. After base plates are properly set and anchor bolts are placed in drilled holes, molten lead shall be poured in holes and packed until holes are completely filled flush to top of base plates. The cost of drilling anchor bolt holes, furnishing lead, and filling holes with molten lead shall be incidental to and included in the lump sum bid for structural steel.

DRAIN DETAILS: All drains shall be gray iron castings, ASTM A48, current edition, Class 30A. Report of Field Inspection of Castings, current form, shall be submitted to the Division of Materials. Shop Detail Drawings shall be submitted to the Bridge Engineer for approval in accordance with the Specifications.

REMOVING EXISTING STEEL STRUCTURE: See Roadway Plans.

PLACING FILLS: See Details for Placing End Bent Backfill and Earth Core, Std. Drwg. SF-2, current edition.

SODDING: Sod shall be furnished and applied in accordance with Section 328.1.8 of the Specifications.

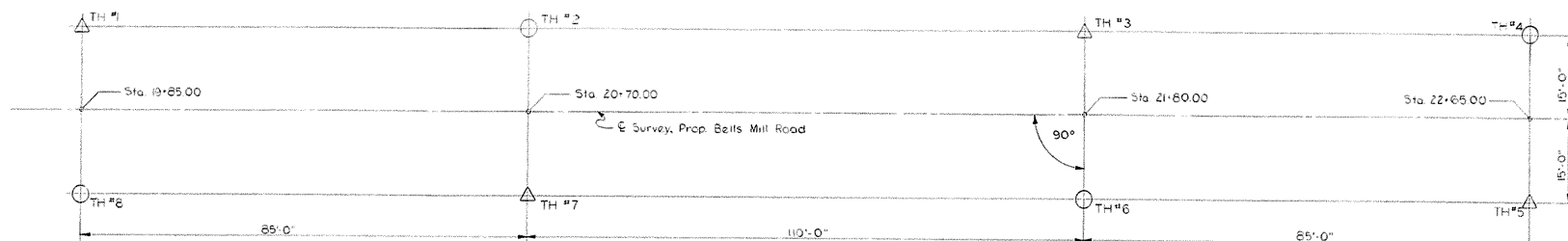
PAINT: All structural steel, except pins and pin bearing surfaces, shall be cleaned and painted in accordance with the Special Provision for Blast Cleaning and Painting Structural Steel. The exposed surfaces of expansion dams and angled edges, not accessible after erection, shall be given three field coats of paint before erection. The pins and pin bearing surfaces shall be coated in the shop with a mixture of white lead and tallow in accordance with the Specifications.

GENERAL NOTES

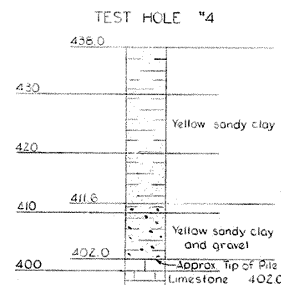
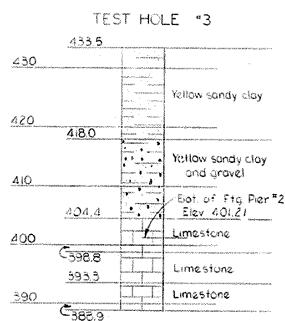
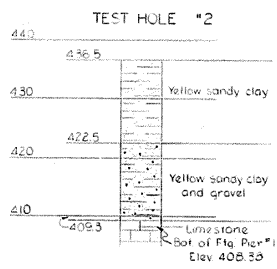
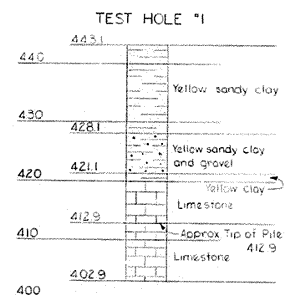
BRIDGE OVER FLOYDS FORK		SHEET 2	
COMMONWEALTH OF KENTUCKY			
DEPARTMENT OF HIGHWAYS			
FRANKFORT			
COUNTY OF			
BULLITT			
BELLS MILL			
ROAD			
STATION 21+25.00		PROJECT NO. RL 15-794-5L	
BRIDGE NUMBER		DRAWING NO. 17586	

DESIGNED BY: CIVIL ENGINEER
 CHECKED BY: CIVIL ENGINEER
 DRAWN BY: CIVIL ENGINEER
 DATE: 10/1/65
 PROJECT: KY 15-794-5L
 SHEET: 17586

Soundings & Cores by the Ky. Dept. of Highways

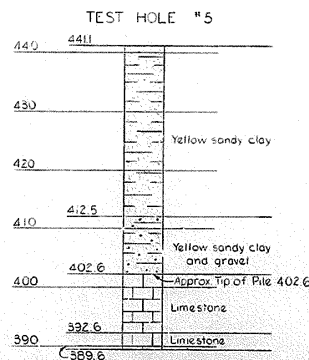
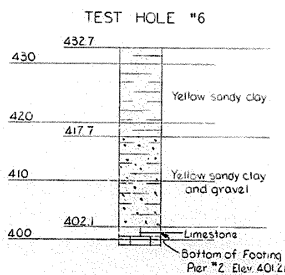
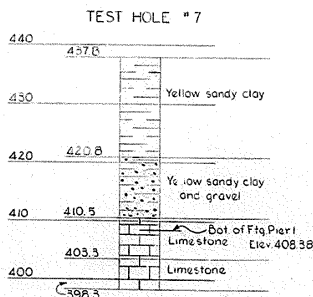
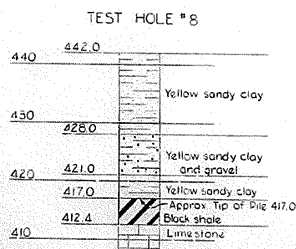


LAYOUT



○ Denotes Auger to Solid Rock.
 △ Denotes Core into Solid Rock 10' or 10' below Footing Elev. given, whichever is lower.
 DATUM BM #2 - Spike in root 15' Elm 70'
 Rt. Sta. 17+32 Elev. 458.19
 BM #3 - Spike in side 18' Sycamore
 156' Rt. Sta. 22+00 Elev. 433.52

- LEGEND**
- Yellow clay
 - Yellow sandy clay
 - Yellow sandy clay and gravel
 - Black shale
 - Limestone



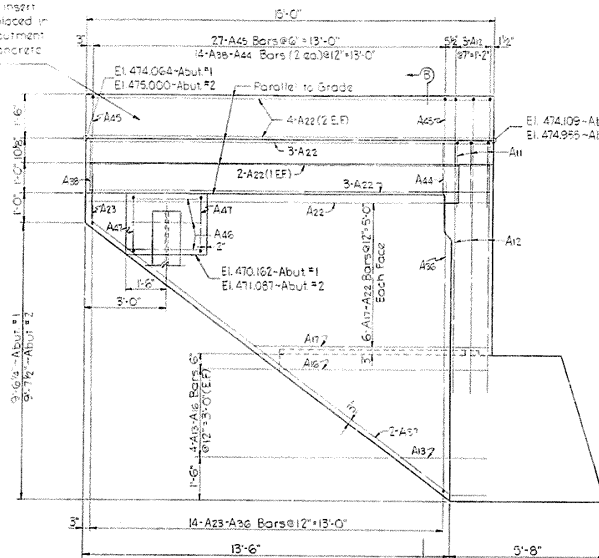
SOUNDINGS

BRIDGE OVER FLOYDS FORK SHEET 4

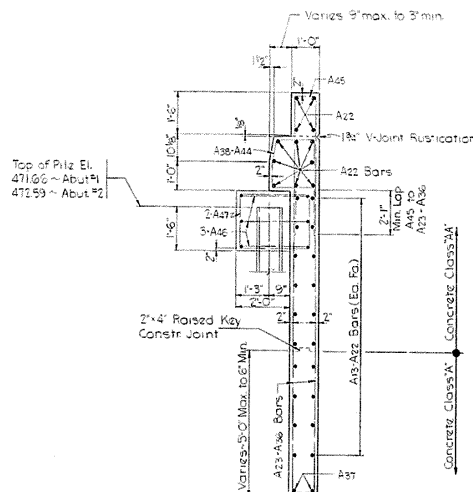
COMMONWEALTH OF KENTUCKY
 DEPARTMENT OF HIGHWAYS
 FRANKFORT
 COUNTY OF
BULLITT
 BELLS MILL
 ROAD

STATION 21+25.00 PROJECT NO. RL 15-794-5L
 BRIDGE NUMBER 17586

Note: Four bolts insert assembly to be placed in inside face of Abutment Wings before concrete is poured.



WING ELEVATION GC



SECTION B-B

Pile No	ABUTMENT #1				ABUTMENT #2			
	Cut-off Elevation of Piles	Tip of Pile Elevation in place as driven	Pile Length in place	Calculated Bearing Capacity	Cut-off Elevation of Piles	Tip of Pile Elevation in place as driven	Pile Length in place	Calculated Bearing Capacity
① 471.66					472.59			
② 464.70					465.53			
③ 464.70					465.53			
④ 464.70					465.53			
⑤ 464.70					465.53			
⑥ 464.70					465.53			
⑦ 471.66					472.59			
⑧ 464.70					465.53			
⑨ 464.70					465.53			
⑩ 464.70					465.53			
⑪ 464.70					465.53			

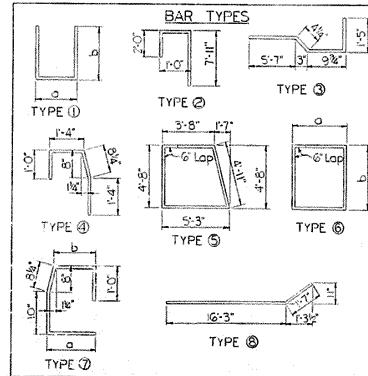
ITEM	ABUT #1	ABUT #2	UNIT
Concrete, Class 'AA'	20.0	20.1	Cu. Yds.
Concrete, Class 'A'	26.5	26.5	Cu. Yds.
Reinforcement	5253	5253	Lbs.
12 BP 53 Steel Piles	552	732	Lin. Ft.

PILING NOTES

This pile record does not replace the other records of piles required to be kept and submitted by the Resident Engineer.

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 herein are the actual lengths of piles in the finished structure below cut-off elevation and are not necessarily pay items. For other piling notes and fill placement note, see General Notes, Sheet 2.

MARK	TYPE	SIZE	NO	LENGTH	LOCATION	a	b	c	d
				ft. in.		ft. in.	ft. in.	ft. in.	ft. in.
A1	Str.	#5	21	17	Cap & Parapet				
A2	Str.	#5	10	17	Cap & Parapet				
A3	①	#5	28	5	Cap				
A4	①	#5	28	5	Cap	4	2	0	6
A5	"	#5	28	5	Cap	4	6	0	6
A6	①	#5	28	5	Cap	4	11	0	6
A7	Str.	#4	4	8	Key				
A8	①	#4	4	7	Key	1	8	2	11
A9	③	#6	25	6	Parapet				
A10	②	#6	25	6	Parapet				
A11	④	#5	6	4	Curb				
A12	①	#5	6	21	Wing	0	8	10	3
A13	Str.	#6	4	3	Wing				
A14	"	#4	4	10					
A15	"	#4	6	3					
A16	"	#4	7	7					
A17	"	#4	8	5					
A18	"	#4	9	10					
A19	"	#4	11	2					
A20	"	#4	12	7					
A21	"	#4	14	0					
A22	Str.	#6	28	14					
A23	①	#5	2	5		0	8	2	3
A24	"	#5	2	4		0	8	2	11
A25	"	#2	7	10		0	8	3	8
A26	"	#2	5	2		0	8	4	4
A27	"	#2	10	8		0	8	5	1
A28	"	#2	12	0		0	8	5	9
A29	"	#2	13	6		0	8	6	6
A30	"	#2	15	0		0	8	7	3
A31	"	#7	16	4		0	8	7	11
A32	"	#4	17	8		0	8	8	7
A33	"	#2	19	2		0	8	9	4
A34	"	#2	20	6		0	8	10	0
A35	"	#2	22	0		0	8	10	2
A36	①	#5	2	23	4	0	8	11	5
A37	①	#6	4	17	Wing				
A38	①	#5	4	3	Curb	0	10	0	3
A39	"	#4	4	1		0	11	0	10
A40	"	#4	4	3		1	0	0	11
A41	"	#4	4	5		1	1	1	0
A42	"	#4	4	7		1	2	1	1
A43	"	#4	4	9		1	3	1	2
A44	①	#4	4	11	Curb	1	4	1	3
A45	①	#4	8	6	Plinth	0	8	4	0
A46	①	#6	10	11	Pile Block	2	8	2	4
A47	①	#5	4	9	Pile Block	1	8	2	6



ABUTMENT NO 1 & NO 2 DETAILS
WORK THIS SHEET WITH SHEET 5

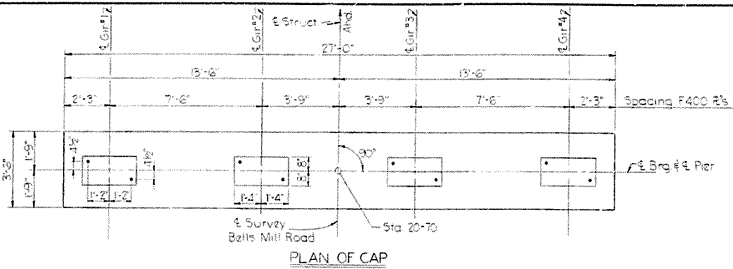
BRIDGE OVER FLOYDS FORK SHEET 6

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF

BELLITT
BELLS MILL
ROAD

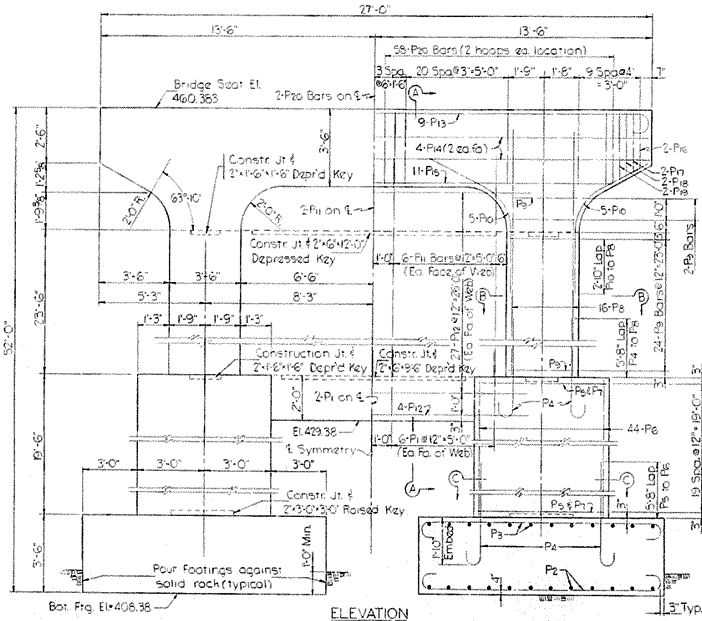
STATION 21+25.00 PROJECT NO. RL 15-794-51
BRIDGE NUMBER 17586

NOTE: For details of Standard Fixed Shoes - See Standard Drawing 552 (Current Edition)

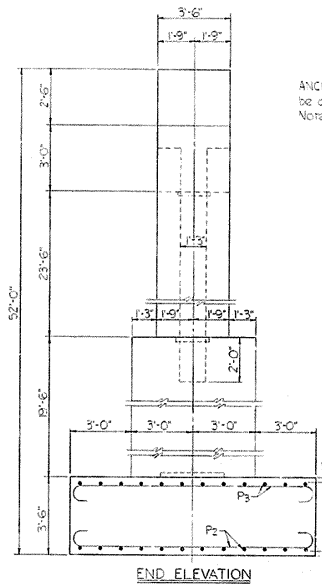


PLAN OF CAP

NOTE: Top of cap bars are to be accurately located in accordance with the plans so that they will not interfere with drilling anchor bolt holes shown on Plan of Cap.

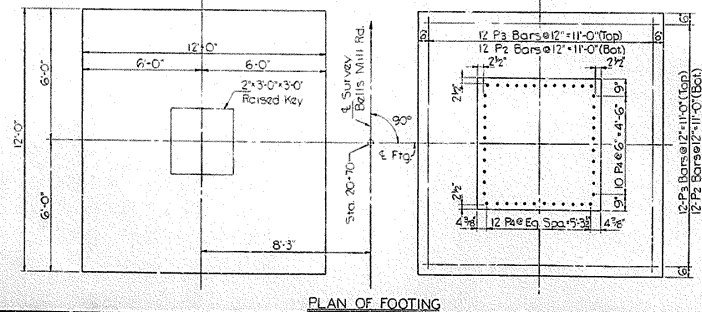


ELEVATION

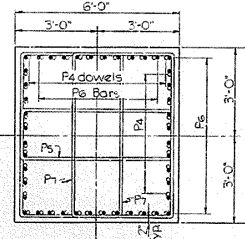


END ELEVATION

Foundation Pressure (for Group 1 Loading) = 9560 psf.



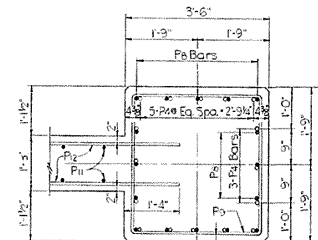
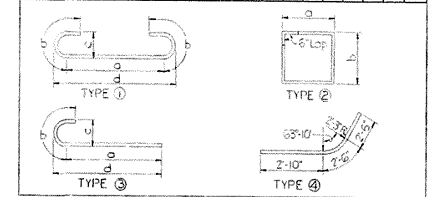
PLAN OF FOOTING



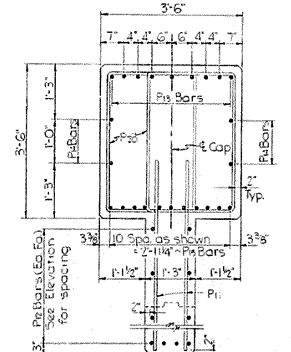
SECTION C-C

ANCHOR BOLTS: Holes 1 3/4" x 12" deep shall be drilled for anchor bolts. See General Notes Sheet 2.

MARK	TYPE	QTY	LENGTH	LOCATION	1	2	3	4	5	6	7	8	9	10
P1	Str	85	20	3	11									
P2	Str	18	48	13	8									
P3	Str	48	12	8										
P4	Str	120	4	0										
P5	Str	40	15	7										
P6	Str	10	58	9	4									
P7	Str	4	80	19	7									
P8	Str	10	32	26	2									
P9	Str	4	52	13	5									
P10	Str	20	7	10										
P11	Str	85	26	26	10									
P12	Str	85	26	26	10									
P13	Str	110	2	12	8									
P14	Str	4	23	8										
P15	Str	11	11	22	4									
P16	Str	4	10	5										
P17	Str	4	10	5										
P18	Str	4	10	5										
P19	Str	4	11	1										
P20	Str	115	11	7										



SECTION B-B



SECTION A-A

Concrete, Class A	141.2	Cu. Yd.
Reinforcement	26,202	Lbs.

PIER NO. 1 DETAILS

BRIDGE OVER FLOYDS FORK SHEET 7

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
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BULLITT
BELLS MILL
ROAD

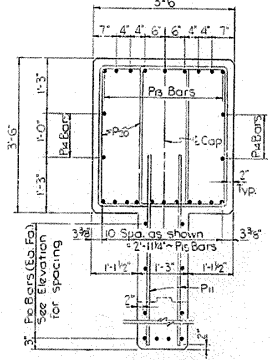
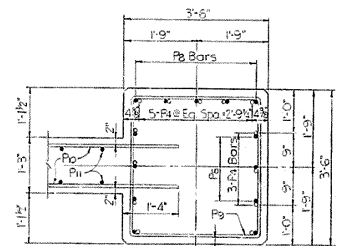
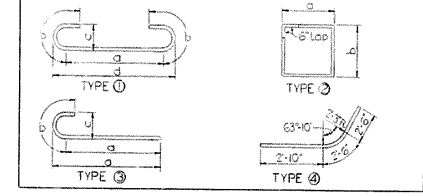
STATION 21+25.00 PROJECT NO. RL-15-794-5L
BRIDGE NUMBER 17586

NOTE: For details of Standard Expansion Shoes - See Standard Drawing 552 (Current Edition)

NOTE: Top of cap bars are to be accurately located in accordance with the plans so that they will not interfere with drilling anchor bolt holes shown on Plan of Cap.

ANCHOR BOLTS: Holes $1\frac{3}{8}$ " x 12" deep shall be drilled for anchor bolts. See General Notes Sheet 2.

MARK	TYPE	NO.	LENGTH Ft. In.	LOCATION	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.
P1 Str #1	26	3	11	7/8"					
P1 (1)	26	45	18	3	10	8	8	10	11
P3 (1)	26	45	12	9	11	1	10	10	8
P4 (1)	26	45	10	10	10	10	10	10	8
P5 (1)	26	45	15	7	10	10	10	10	8
P6 Str #10	26	23	10	10	10	10	10	10	8
P1 (2)	26	45	19	7	10	10	10	10	8
P6 Str #10	26	31	12	10	10	10	10	10	8
P5 (2)	26	45	15	5	10	10	10	10	8
P1 Str #10	26	23	10	10	10	10	10	10	8
P3 (2)	26	45	12	9	11	1	10	10	8
P4 (2)	26	45	10	10	10	10	10	10	8
P5 (2)	26	45	15	7	10	10	10	10	8
P6 Str #10	26	23	10	10	10	10	10	10	8
P1 (3)	26	45	19	7	10	10	10	10	8
P3 (3)	26	45	12	9	11	1	10	10	8
P4 (3)	26	45	10	10	10	10	10	10	8
P5 (3)	26	45	15	7	10	10	10	10	8
P6 Str #10	26	23	10	10	10	10	10	10	8
P1 (4)	26	45	19	7	10	10	10	10	8
P3 (4)	26	45	12	9	11	1	10	10	8
P4 (4)	26	45	10	10	10	10	10	10	8
P5 (4)	26	45	15	7	10	10	10	10	8
P6 Str #10	26	23	10	10	10	10	10	10	8
P1 (5)	26	45	19	7	10	10	10	10	8
P3 (5)	26	45	12	9	11	1	10	10	8
P4 (5)	26	45	10	10	10	10	10	10	8
P5 (5)	26	45	15	7	10	10	10	10	8
P6 Str #10	26	23	10	10	10	10	10	10	8
P1 (6)	26	45	19	7	10	10	10	10	8
P3 (6)	26	45	12	9	11	1	10	10	8
P4 (6)	26	45	10	10	10	10	10	10	8
P5 (6)	26	45	15	7	10	10	10	10	8
P6 Str #10	26	23	10	10	10	10	10	10	8
P1 (7)	26	45	19	7	10	10	10	10	8
P3 (7)	26	45	12	9	11	1	10	10	8
P4 (7)	26	45	10	10	10	10	10	10	8
P5 (7)	26	45	15	7	10	10	10	10	8
P6 Str #10	26	23	10	10	10	10	10	10	8
P1 (8)	26	45	19	7	10	10	10	10	8
P3 (8)	26	45	12	9	11	1	10	10	8
P4 (8)	26	45	10	10	10	10	10	10	8
P5 (8)	26	45	15	7	10	10	10	10	8
P6 Str #10	26	23	10	10	10	10	10	10	8
P1 (9)	26	45	19	7	10	10	10	10	8
P3 (9)	26	45	12	9	11	1	10	10	8
P4 (9)	26	45	10	10	10	10	10	10	8
P5 (9)	26	45	15	7	10	10	10	10	8
P6 Str #10	26	23	10	10	10	10	10	10	8
P1 (10)	26	45	19	7	10	10	10	10	8
P3 (10)	26	45	12	9	11	1	10	10	8
P4 (10)	26	45	10	10	10	10	10	10	8
P5 (10)	26	45	15	7	10	10	10	10	8
P6 Str #10	26	23	10	10	10	10	10	10	8
P1 (11)	26	45	19	7	10	10	10	10	8
P3 (11)	26	45	12	9	11	1	10	10	8
P4 (11)	26	45	10	10	10	10	10	10	8
P5 (11)	26	45	15	7	10	10	10	10	8
P6 Str #10	26	23	10	10	10	10	10	10	8
P1 (12)	26	45	19	7	10	10	10	10	8
P3 (12)	26	45	12	9	11	1	10	10	8
P4 (12)	26	45	10	10	10	10	10	10	8
P5 (12)	26	45	15	7	10	10	10	10	8
P6 Str #10	26	23	10	10	10	10	10	10	8
P1 (13)	26	45	19	7	10	10	10	10	8
P3 (13)	26	45	12	9	11	1	10	10	8
P4 (13)	26	45	10	10	10	10	10	10	8
P5 (13)	26	45	15	7	10	10	10	10	8
P6 Str #10	26	23	10	10	10	10	10	10	8
P1 (14)	26	45	19	7	10	10	10	10	8
P3 (14)	26	45	12	9	11	1	10	10	8
P4 (14)	26	45	10	10	10	10	10	10	8
P5 (14)	26	45	15	7	10	10	10	10	8
P6 Str #10	26	23	10	10	10	10	10	10	8
P1 (15)	26	45	19	7	10	10	10	10	8
P3 (15)	26	45	12	9	11	1	10	10	8
P4 (15)	26	45	10	10	10	10	10	10	8
P5 (15)	26	45	15	7	10	10	10	10	8
P6 Str #10	26	23	10	10	10	10	10	10	8
P1 (16)	26	45	19	7	10	10	10	10	8
P3 (16)	26	45	12	9	11	1	10	10	8
P4 (16)	26	45	10	10	10	10	10	10	8
P5 (16)	26	45	15	7	10	10	10	10	8
P6 Str #10	26	23	10	10	10	10	10	10	8
P1 (17)	26	45	19	7	10	10	10	10	8
P3 (17)	26	45	12	9	11	1	10	10	8
P4 (17)	26	45	10	10	10	10	10	10	8
P5 (17)	26	45	15	7	10	10	10	10	8
P6 Str #10	26	23	10	10	10	10	10	10	8
P1 (18)	26	45	19	7	10	10	10	10	8
P3 (18)	26	45	12	9	11	1	10	10	8
P4 (18)	26	45	10	10	10	10	10	10	8
P5 (18)	26	45	15	7	10	10	10	10	8
P6 Str #10	26	23	10	10	10	10	10	10	8
P1 (19)	26	45	19	7	10	10	10	10	8
P3 (19)	26	45	12	9	11	1	10	10	8
P4 (19)	26	45	10	10	10	10	10	10	8
P5 (19)	26	45	15	7	10	10	10	10	8
P6 Str #10	26	23	10	10	10	10	10	10	8
P1 (20)	26	45	19	7	10	10	10	10	8
P3 (20)	26	45	12	9	11	1	10	10	8
P4 (20)	26	45	10	10	10	10	10	10	8
P5 (20)	26	45	15	7	10	10	10	10	8
P6 Str #10	26	23	10	10	10	10	10	10	8



Material	Quantity	Unit
Concrete, Class "A"	577	Cu. Yd.
Reinforcement	28,845	Lbs.

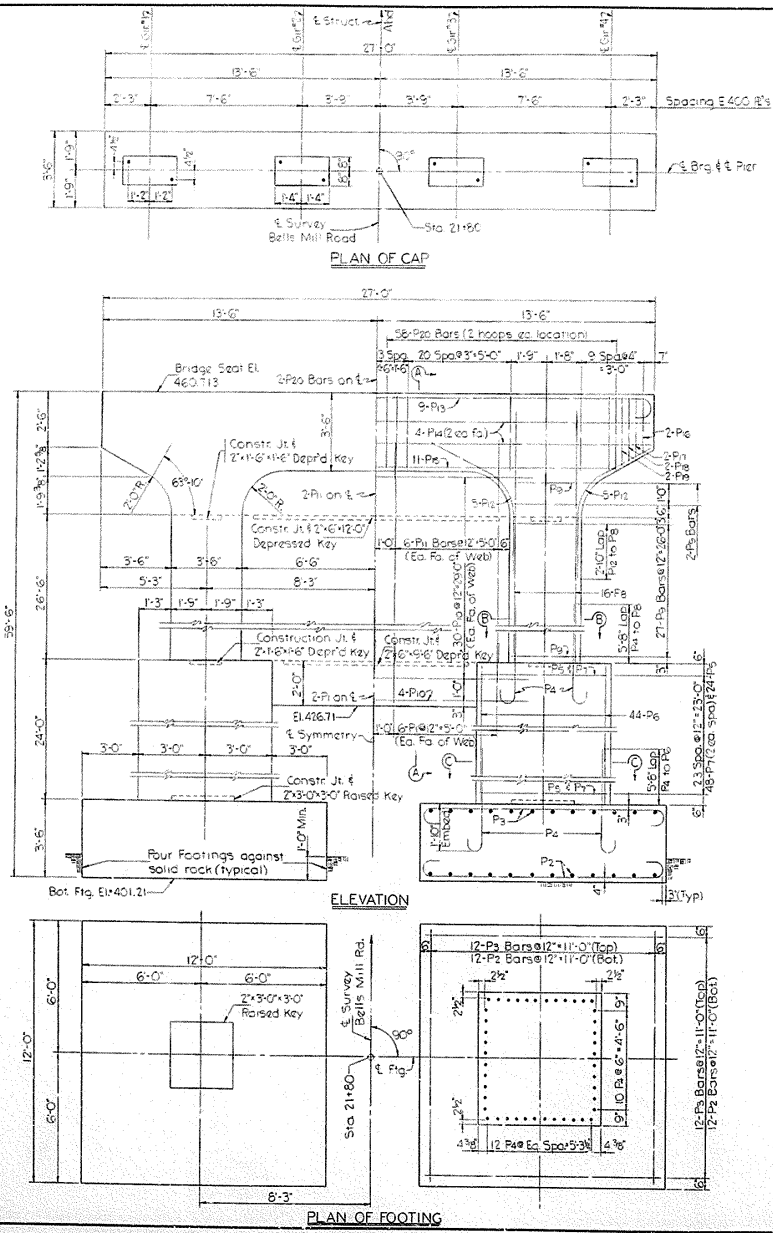
PIER NO. 2 DETAILS

BRIDGE OVER FLOYDS FORK SHEET 8

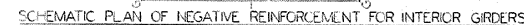
COMMONWEALTH OF KENTUCKY
 DEPARTMENT OF HIGHWAYS
 FRANKFORT
 COUNTY OF
BULLITT
 BELLS MILL
 ROAD

STATION 21+25.00 PROJECT NO. RL 15-794-SL
 BRIDGE NUMBER 17586

DESIGNED BY	DATE	APPROVED BY	DATE
WMC	1/1/78	WMC	1/1/78
JEF	1/1/78	JEF	1/1/78
WMC	1/1/78	WMC	1/1/78
JEF	1/1/78	JEF	1/1/78



DISBURSED BY: MFL	CHECKED BY: JMC	DATE: 1-69	RYNHO	DATE
RECEIVED BY: SLG	CHECKED BY: JMC	DATE: 1-69	RYNHO	DATE
	CHECKED BY:	DATE:	RYNHO	DATE



Note: Schematics of Top Row of Steel only.



SUPERSTRUCTURE

WORK THIS SHEET WITH SHEETS 10, 11 & 12

BRIDGE OVER FLOYDS FORK SHEET 9

SHEET 1

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

FRANKFURT
COUNTY OF

BULLITT

BELLS MILL

ROAD

STATION 21+25.00

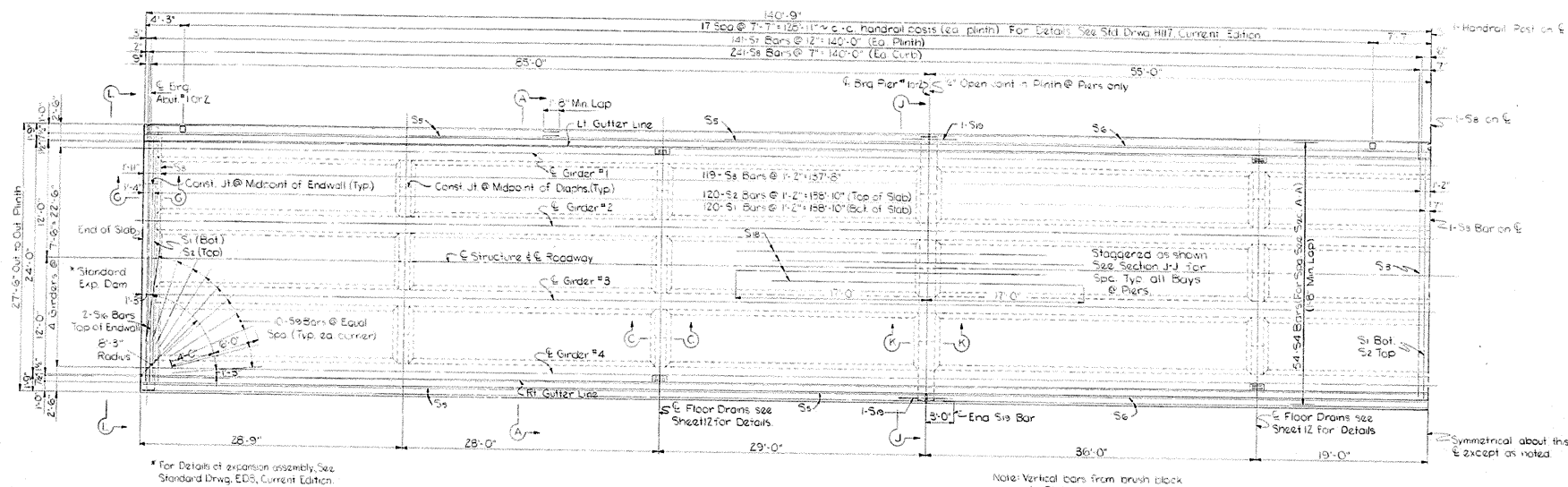
PROJECT NO. RL 15-794-5L

BRIDGE

BRIDGE
NUMBER

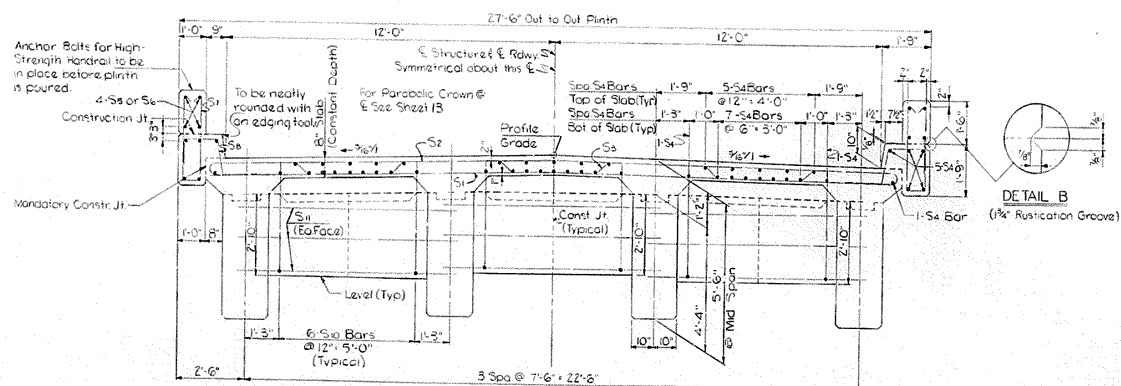
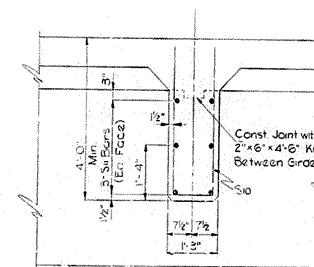
17586

ORDERED BY	JFE	ORDERED BY	MEL	DATE	12-58	DATE	
ISSUED BY	SLG	ORDERED BY	MEL	DATE	12-58	DATE	
ORDERED BY		ORDERED BY		DATE		DATE	



PLAN

Note: Vertical bars from brush block into Plinth are to be in place before brush block is poured.

SECTION "A-A"
SECTION "A-A" IS A REPRESENTATIVE SECTION OF THE STRUCTURE. IT IS NOT TO BE USED FOR CONSTRUCTION OF THE STRUCTURE.

SECTION "C-C"

SUPERSTRUCTURE

WORK THIS SHEET WITH SHEETS 9, 10, & 12

BRIDGE OVER FLOYDS FORK

SHEET 1

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

FRANKFORT
COUNTY OF

BULLITT

BELLS MILL

ROAD PROJECT

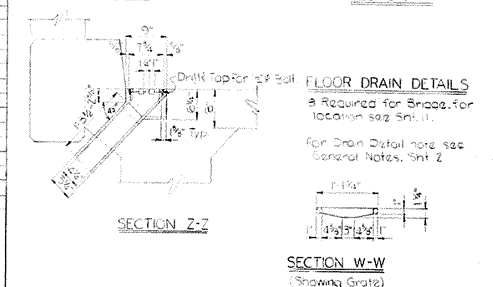
STATION 21+25.00

PROJECT NO. RL 15-794-5L

BRIDGE
NUMBER

17586

INDEX

[illegible]

3 Required for Bridge, for location see Sht. 11.

for Drain Detail note see

SECTION W-W
(Showing Gratz)

SEQUENCE OF POURING SUPERSTRUCTURE

SCHEDULE OF REACTIONS-KIPS				
	GIRDERS 1 & 4		GIRDERS 2 & 3	
	A	B	A	B
DEAD LOAD	6.7	277.8	74.5	34.5
LIVE LOAD	21.8	25.3	31.5	65.3
IMPACT	5.2	10.0	7.5	14.5
TOTAL	90.7	333.1	113.5	354.3

ESTIMATE OF QUANTITIES

Concrete Class "A-A"	713.7	cuyds
Reinforcement	176.413	Lbs
Major Handrail	621.5	Lin.Ft

SUPERSTRUCTURE

BRIDGE OVER FLOYDS FORK

SHEET 12

COMMONWEALTH OF KENTUCKY

DEPARTMENT OF HIGHWAYS

FRANKFORT

COUNTY OF
BULLITT

BELLS MILL
ROAD

STATION 21 + 25.00

PROJECT NO. RL 15-794-51

BRIDGE

DATE: 10/10/2018 BY: [Signature] DRAWING NO.

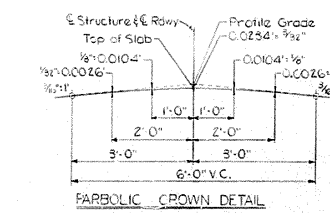
WORK THIS SHEET WITH SHEETS 9.08

0A0001	473,265	473,594	473,450
0A0002	474,169	474,338	474,274

ELEVATION

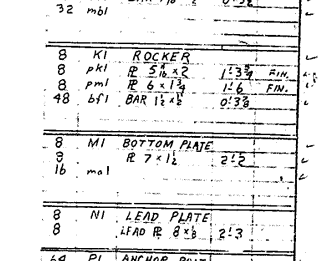
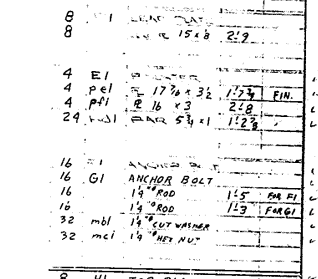
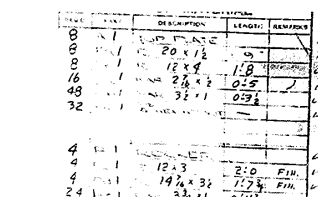
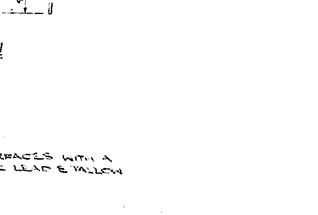
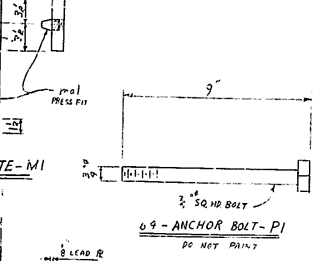
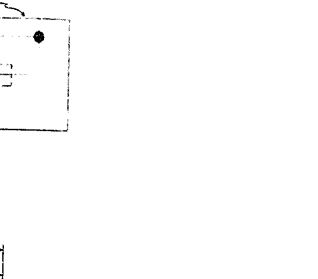
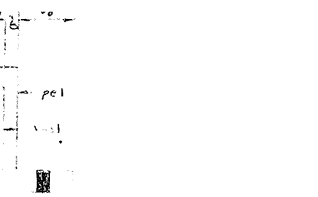
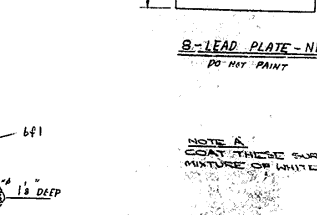
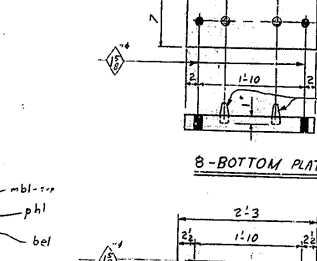
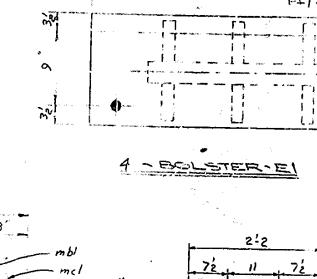
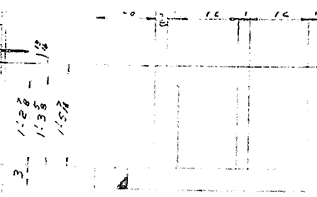
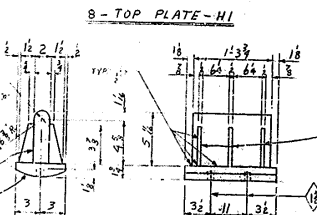
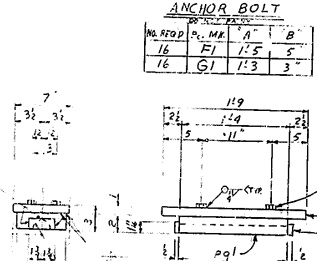
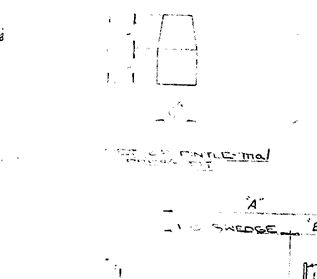
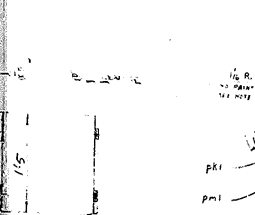
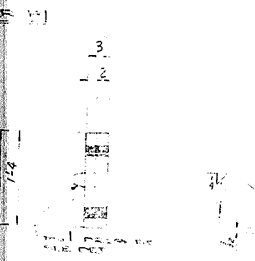
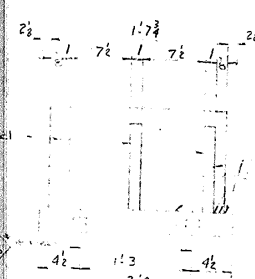
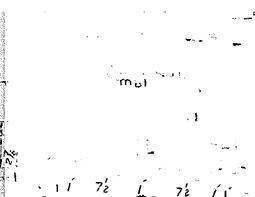
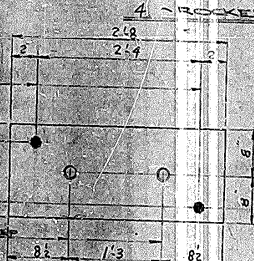
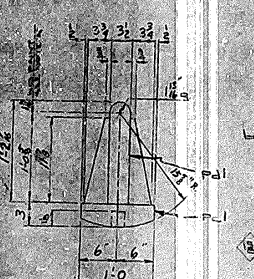
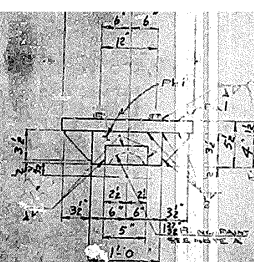
The diagram illustrates a cross-section of a bridge structure. Key components and their elevations are labeled as follows:

- Left Side (Approach):**
 - Girder #186 Elev. 462.859
 - Girder #269 Elev. 462.976
 - Elev. 462.609
 - (B.S. Elev. = 460.715)
- Center (Pier #2):**
 - Exp. (Expansion joint)
 - Girder #186 Elev. 462.869
 - Girder #269 Elev. 462.986
- Right Side (Approach):**
 - Exp. (Expansion joint)
 - Girder #186 Elev. 468.617
 - Girder #269 Elev. 468.734
 - Elev. 468.367
 - (B.S. Elev. = 467.554)
- Far Right (Abutment):**
 - Cutter El. 47
 - S. Elev. 474
 - Cutter El. 474
 - S. Elev. 474.2



CONSTRUCTION ELEVATIONS

BRIDGE OVER FLOYDS FORK		SHEET 13	
COMMONWEALTH OF KENTUCKY DEPARTMENT OF HIGHWAYS FRANKFORT COUNTY OF BULLITT BELLS MILL ROAD			
STATION	21+25.00	PROJECT NO. RL 15-794-5L	
BRIDGE NUMBER		Drawing No. 17586	INDEX



NO.	ROD	PL.	MA.	A"	B"
16	FI			1.5	5
16	GI			1.3	3

NOTE: A
COAT THESE SURFACES WITH A
MIXTURE OF WHITE LEAD & YELLOW

LETTING: 7/1/69

LEAD R. & PIG LEAD TO BE ASTM. B29-55
STRUCTURAL STEEL ASTM A36-67, UN.

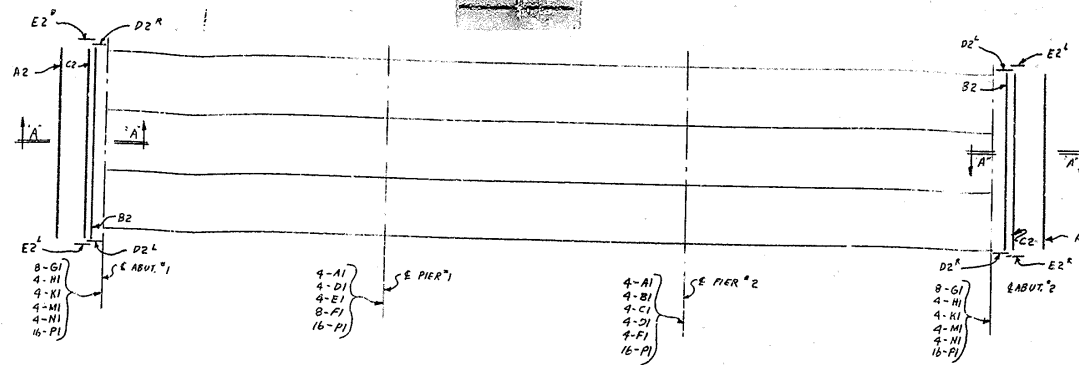
REVISIONS		PRINT RECORD	
NO.	DATE	NO.	DATE
1	7/1/69	1	7/1/69

BENNETT INDUSTRIES, INC.
PEOTONE, ILLINOIS

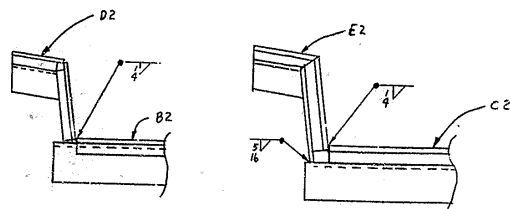
PROJECT: RL 18-794-581 STATION 214+50.00
BRIDGE OVER FLOYD CANYON, KENTUCKY
LOCAL IN. QUALITY COUNTY, KENTUCKY
CUSTOMER: KENTUCKY STEEL PRODUCTS CO., INC.

SHEET NO. 1

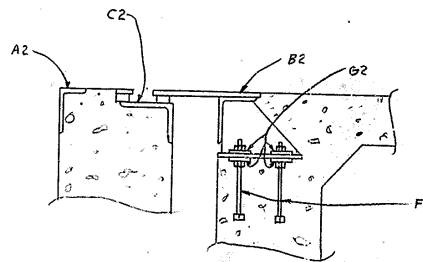
BRIDGE



ERECTION DIAGRAM



DETAILS OF CURB PLATES TO EXPANSION DAM
FOR FIELD CONNECTIONS



SECTION AA'

GENERAL NOTES

SPECIFICATIONS: KENTUCKY DEPARTMENT OF HIGHWAYS CURRENT SPECIFICATIONS WITH AMENDMENTS.
MILL TEST REPORTS: NOTARIZED STATEMENTS IN TRIPPLICATE SHALL BE FURNISHED THE DEPARTMENT OF HIGHWAYS SHOWING THAT ALL STRUCTURAL STEEL FURNISHED MEETS SPECIFICATIONS.
ANCHOR BOLTS: ANCHOR BOLTS SHALL BE PLACED IN PREDRILLED HOLES (WHICH ARE TO BE KEPT DRY UNTIL SETTING OF ANCHOR BOLT) AND HULTEN LEAD SHALL BE PLACED IN HOLES AND PACKED UNTIL HOLES ARE COMPLETELY FILLED FLUSH WITH TOP OF BASE PLATE.

Green Cards

Dup # 17586

REVISIONS		PRINT RECORD		BENNETT INDUSTRIES, INC.	
NO.	DATE	BY	TO	DATE	BY
1	7/11/69	WJL	WJL	7/11/69	WJL
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

ANY WELDING DONE ON THIS DRAWING TO BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY SPECIFICATIONS UNLESS NOTED.

DESIGN BY: WJL

CHECKED BY: WJL

APPROVED BY: WJL

DATE: 7/11/69

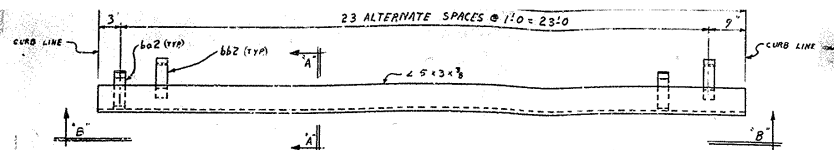
PROJECT: AL-15-784-SB1 STATION 21+85.00

LOCATION: BULLITT COUNTY, KENTUCKY

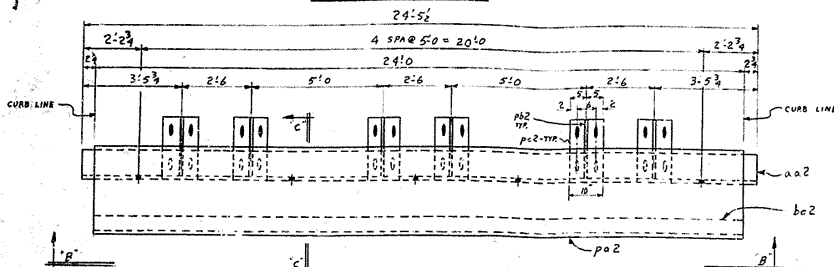
CUSTOMER: KENTUCKY STEEL PRODUCTS CO.

TOTAL NO. OF SHEETS: 51

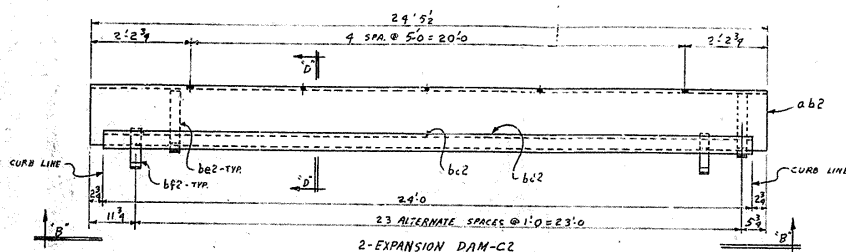
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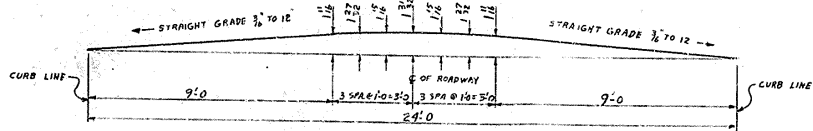
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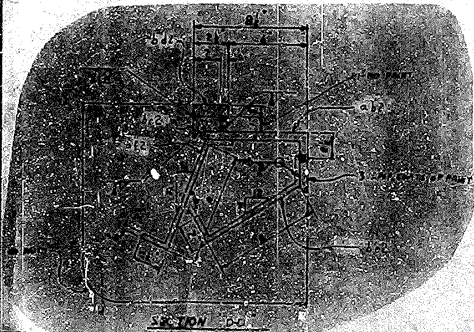
2-EXPANSION DAM-B2



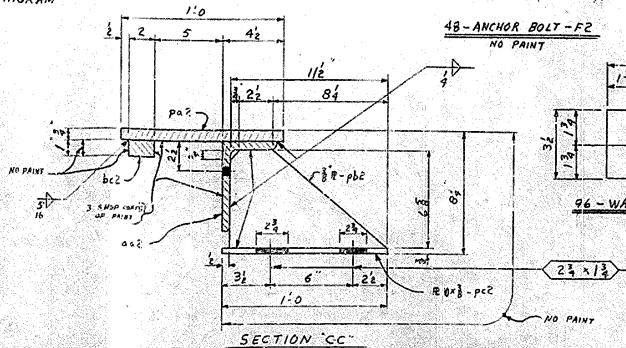
2-EXPANSION DAM-C2



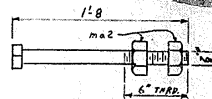
SECTION B-B
BENDING DIAGRAM



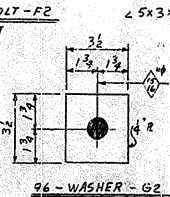
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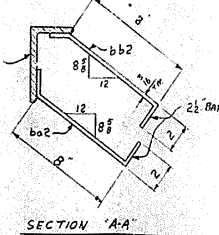
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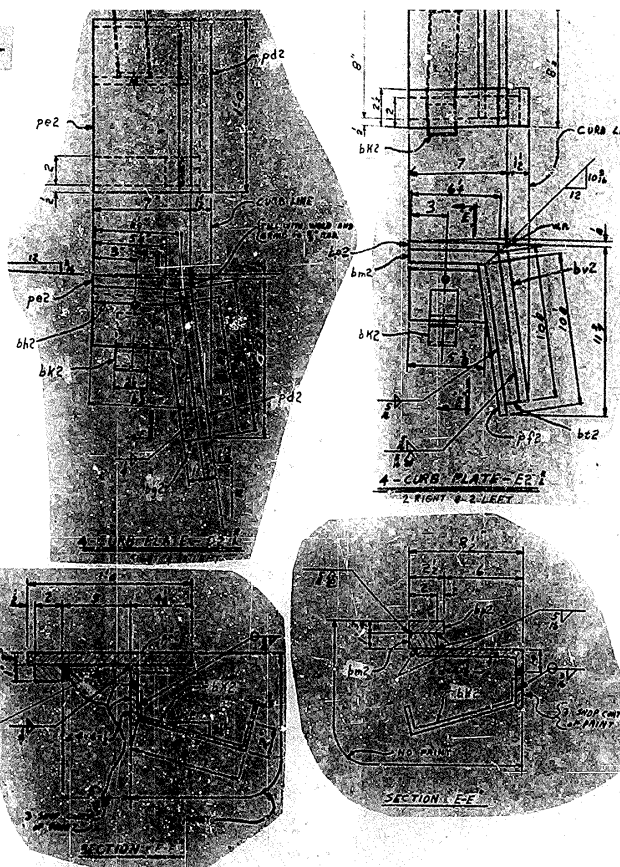
48-ANCHOR BOLT-F2
NO PAINT



96-WASHER-G2



SECTION A-A



SECTION E-E

2	A2	EXPANSION GUARD	
2	aa2	2" x 3" x 1/2"	24'0"
24	ba2	BAR 2 1/2" x 1/2"	1'0"
24	bb2	BAR 2 1/2" x 1/2"	1'0"
2	B2	EXPANSION DAM	
2	aa2	2" x 3" x 1/2"	24'0"
2	po2	RE 12 x 1/2"	24'0"
2	bc2	BAR 2 x 1"	24'0"
12	ab2	RE 6 1/2" x 1/2"	0'11"
12	pc2	RE 10 1/2"	1'0"
2	C2	EXPANSION DAM	
2	ab2	2" x 3" x 1/2"	24'0"
2	bc2	BAR 2 x 1"	24'0"
24	ba2	BAR 2 1/2" x 1/2"	1'0"
24	bb2	BAR 2 1/2" x 1/2"	1'0"
4	D2	CURB PLATE	5'2"
4	pd2	2" x 4" x 1/2"	0'6 3/4"
4	pd2	RE 9 1/2" x 1/2"	1'0"
4	pd2	CHECKED R 6 1/2"	1'0"
4	ba2	BAR 2 x 1"	0'8 3/4"
4	bb2	BAR 2 x 1"	0'5 1/4"
4	bb2	BAR 2 1/2" x 1/2"	1'0"
4	bb2	BAR 2 1/2" x 1/2"	1'0"
4	E2	CURB PLATE	3'1"
4	pe2	2" x 4" x 1/2"	0'5 3/4"
4	pe2	RE 8 x 1/2"	0'10 1/2"
4	bm2	BAR 2 x 1"	0'6 3/4"
4	bp2	BAR 2 1/2" x 1/2"	0'6 3/4"
4	bp2	BAR 2 x 1"	0'10 1/2"
4	bu2	BAR 2 1/2" x 1/2"	0'10 1/2"
4	bu2	BAR 2 1/2" x 1/2"	1'0"
48	F2	ANCHOR BOLT	
48		5/8" x 12" HD. BOLT	1'18" 6" TYP.
96	ma2	5/8" x 12" HD. NUT	
96	G2	WASHER	
96		RE 3 1/2" x 4"	0'3 3/4"

ALL STRUCTURAL STEEL TO BE ASTM A36
SEE SHT. "E" FOR FIELD FASTENING OF CURB
PLATES.
MACHINE BOLTS & NUTS TO BE ASTM A307

LETTING 7/11/69

BENNETT INDUSTRIES, INC. PEOTONE, ILLINOIS	
PROJECT: RL 15-75A-581 DIVISION E1 + 25.00 BRIDGE OVER FLOYD FORK DAM, NB 17586 LOCATION: BULLITT COUNTY, KENTUCKY CUSTOMER: KENTUCKY STATE HIGHWAY DEPT.	
TOTAL NO. OF SHEETS	2
SHEET NO.	2 - 8282

REVISIONS		PRINT RECORD	
NO.	DATE	BY	CHKD.
1	11/1/69	UN	
2	11/1/69	UN	
3	11/1/69	UN	
4	11/1/69	UN	
5	11/1/69	UN	
6	11/1/69	UN	
7	11/1/69	UN	
8	11/1/69	UN	
9	11/1/69	UN	
10	11/1/69	UN	