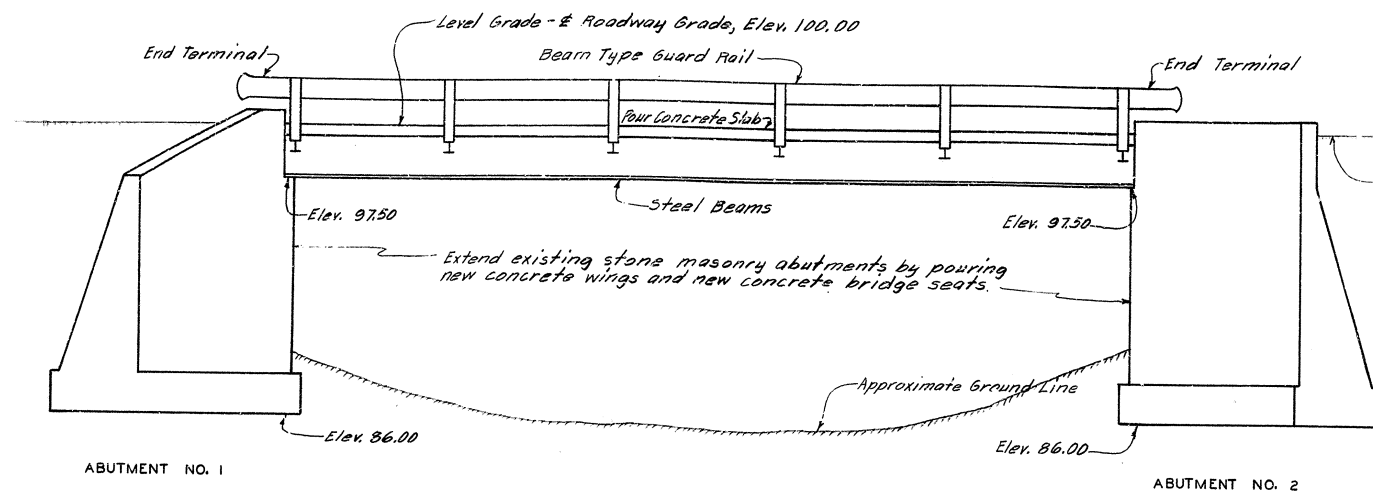


FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				



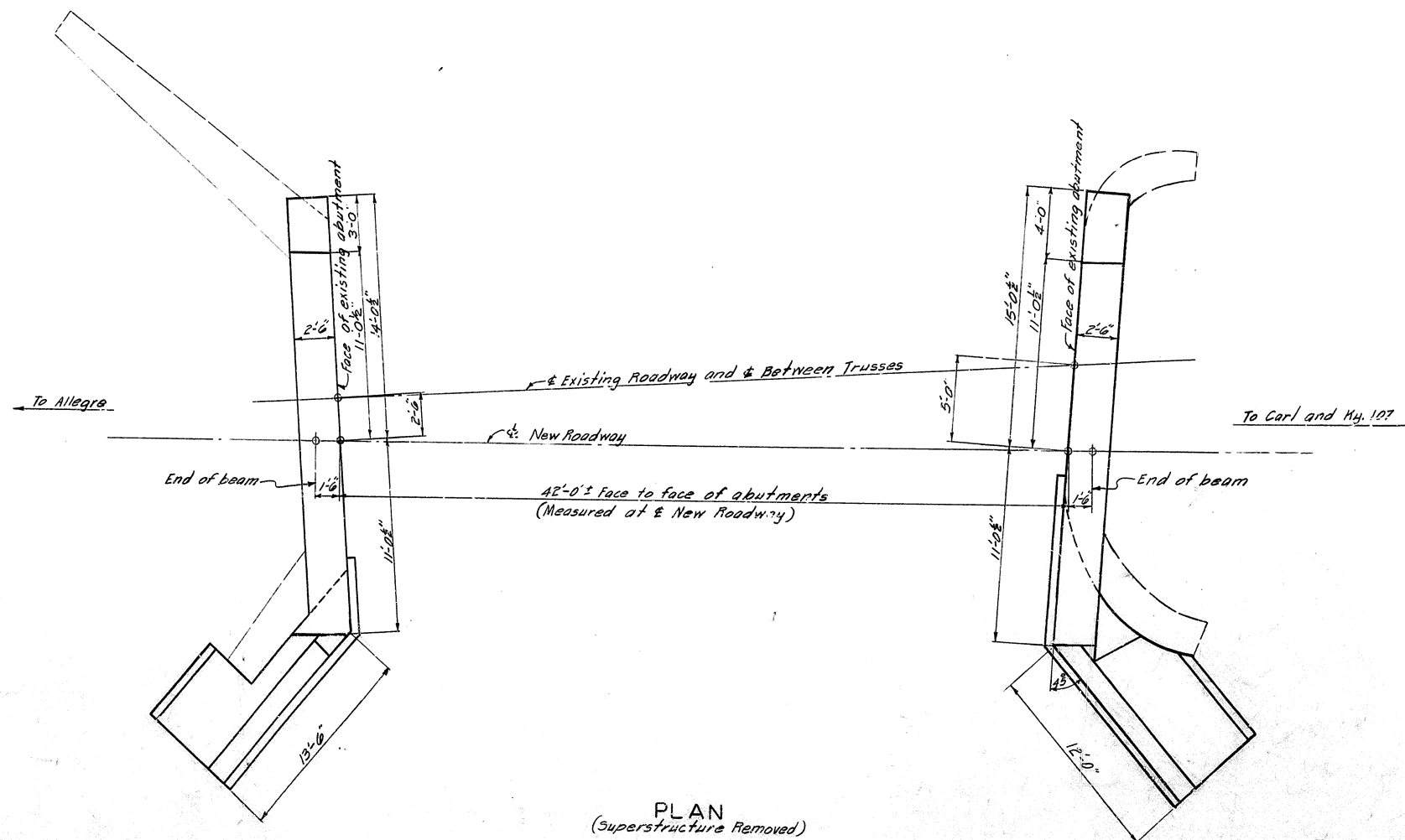
NOTE: Assumed bench mark, roadway surface on & Existing Roadway at Abutment No. 2, Elev. 100.00

BILL OF INCIDENTAL MATERIAL		
ITEM	NO.	DESCRIPTION
1/2" Premolded Exp. Jt. Material	4	1'-0" x 1'-11 1/4" long
" " " "	4	6 3/4" x 1'-9" long

ELEVATION
45'-0" BEAM SPAN 22'-0" ROADWAY
H 15-44 LOADING

TOTAL ESTIMATE OF QUANTITIES

Concrete Class "A"	78.3 Cu. Yds.
Reinforcement	5270. Lbs.
Beam Type Guard Rails	84. Lin. Ft.
Guard Rail Terminals	4. Pieces
Excavation, Common	50. Cu. Yds.
Removing Existing Stone Masonry	18. Cu. Yds.
Structural Steel, New	Lump Sum
Removing Existing Span	Lump Sum
Painting Stone Masonry	Lump Sum
Cleaning and Painting Beams	Lump Sum
Transporting and Erecting Beams	Lump Sum



Estimated Weight of New Structural Steel = 1236 Lbs.
Estimated Weight of Beams furnished by Dept. of Highways = 23,940 Lbs.

Sheet 1 of 6
G-351

Repairs to Bridge over Buck Fork Creek

COMMONWEALTH OF KENTUCKY	
DEPARTMENT OF HIGHWAYS	
FRANKFORT	
COUNTY OF	
CHRISTIAN	
CARL - OVIL - ALLEGRE	
ROAD	
STATION	PROJECT NO.
BRIDGE NUMBER MP 24-345-2	NO. 10858

JUL 18 1963

DESIGNED BY: [Signature] DATE: [Date]
CHECKED BY: [Signature] DATE: [Date]
TRACED BY: [Signature] DATE: [Date]

DESIGNED BY	CHECKED BY	DATE	REVIEWED	DATE
DETAILED BY	CHECKED BY	DATE	REVIEWED	DATE
TRACED BY	CHECKED BY	DATE	REVIEWED	DATE

GENERAL NOTE

SPECIFICATIONS:

Kentucky Department of Highways, 1956 Edition with Amendments.

DESIGN LOAD:

H15-M Loading as specified in ASDO, 1957 Specifications.

CONCRETE:

Class "A" Concrete to be used throughout.

REVELED EDGES:

All exposed concrete edges are to be beveled 7/8" unless otherwise noted.

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.

STRUCTURAL STEEL:

The lump sum bid submitted for structural steel shall be used as full payment for furnishing and placing the structural steel in accordance with the plans and specifications.

PAINTING NEW STRUCTURAL STEEL:

One shop coat of red lead paint, Type I and one coat of aluminum paint shall be given to all new structural steel in accordance with the Specifications.

WELDING:

The cost of painting new steel is to be included in the lump sum bid for structural steel.

The cost of welding material and welding, straightening, altering, and burning new or existing steel is to be included in the lump sum bid for Structural Steel.

MILL TEST REPORTS FOR STRUCTURAL STEEL:

Mill Test Reports or Rotated Statements shall be furnished in triplicate, showing that all structural steel furnished conforms to A.S.M. A7-50F and meets the requirements of Specifications.

SHOP DRAWING:

The contractor shall submit full sets of prints of the detailed shop drawing for all structural steel and guardrails for approval by the Department. Any material ordered or work done by the contractor before the drawings have been approved shall be at his risk.

PAINTING EXISTING AREAS:

All areas of new or existing structural steel on which the paint is damaged by the contractor with weld burns or other means, shall be spot painted with red lead paint, Type I and given one coat of aluminum paint. Cost of this touch up painting is to be included in the lump sum bid for structural steel.

TRANSPORTING AND ERECTING BEAMS:

A lump sum bid shall be submitted for this work which consists of transporting the beams from the storage yard in Frankfort to the bridge site and erecting them.

BILL OF INCIDENTAL MATERIAL:

The quantities shown in the Bill of Incident 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 furnishing and placing the items shown in the Bill of Incident Material shall be included in the unit price bid for Class "A" Concrete.

CLEANING AND PAINTING:

A lump sum bid shall be submitted for this work. All steel furnished by the Department of Highways is to be cleaned of rust and other foreign matter, and given one coat of red lead paint, Type I and one coat of aluminum paint in accordance with the Specifications. Paint shall be applied by means of brushes. Surfaces which are inaccessible to brushes shall be painted with daubers. The completion date of painting (year and month) shall be stenciled on the structure as directed by the Engineer. Letters or figures shall be two inches high and paint shall contrast with the background.

GUARDRAIL:

The guardrail, including all elements and fittings necessary for a complete installation, shall be a beam type metal heavy duty guardrail (70,000 lbs. minimum breaking strength at the joints) in accordance with the Specifications and shall not be less than three inches deep. The cost of furnishing, placing and painting all guardrails and fittings is to be included in the unit price bid for guardrails. All nuts and bolts connecting the rails shall be galvanized. Guardrails to be shop painted with one coat of red lead paint, Type I or manufacturer's paint, if approved by the Department's Laboratory and field painted with two coats of aluminum paint. Pay length shall be center to center of end posts as shown on the plans. Payment for guardrail end sections shall be made at the unit price bid per section.

DRILLING HOLES IN CONCRETE:

The cost of drilling holes in concrete shall be included in the unit price bid for Class "A" Concrete.

REMOVING EXISTING SPAN:

The existing truss span shall be dismantled and all the pieces of material stacked near the site at the direction of the Engineer. Steel stringers shall be removed carefully for possible reuse. The remaining steel may be dismantled in any manner the Contractor chooses. The cost of labor and equipment shall be included in a lump sum bid for removing existing truss span.

POINTING STONE MASONRY:

Loose or missing stones in the abutments shall be replaced, spaces between courses of stone shall be filled with mortar and all masonry shall be pointed. Cost of furnishing all materials, labor and equipment necessary for performing the work shall be included in a lump sum bid for pointing stone masonry.

CLOSING BRIDGE TO TRAFFIC:

The bridge may be closed to traffic when same is being reconstructed. The bridge shall not be closed to traffic until the Contractor has obtained all material for reconstruction of same. The bridge shall not be closed during the interval of time that the nearby bridge MP 24-345-1 is closed for repairs.

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

Sheet 2 of 6

Repairs to Bridge over Buck Fork Creek

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF

CHRISTIAN
CARL - OVIL - ALLEGRE

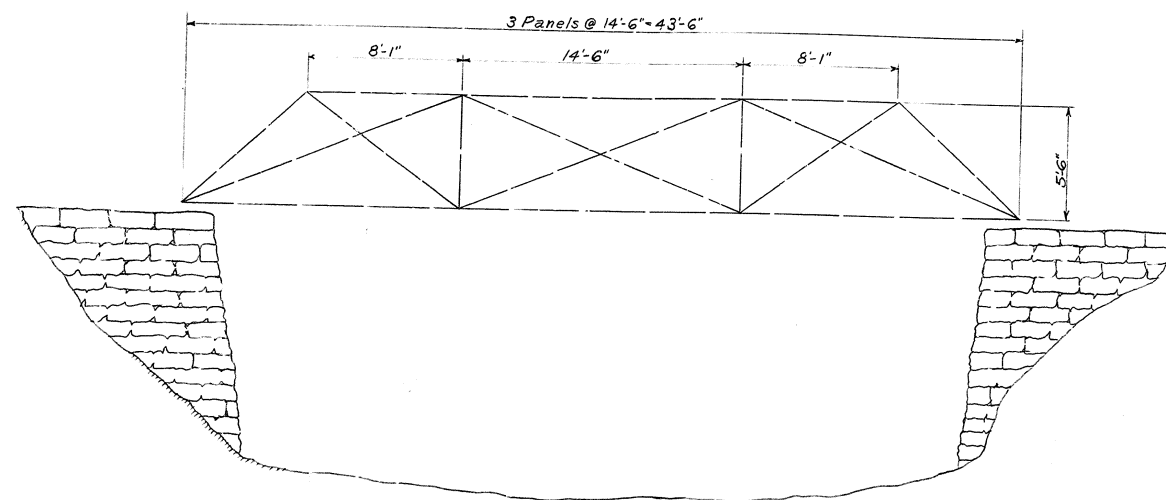
ROAD
PROJECT NO.

STATION
BRIDGE NUMBER MP 24-345-2

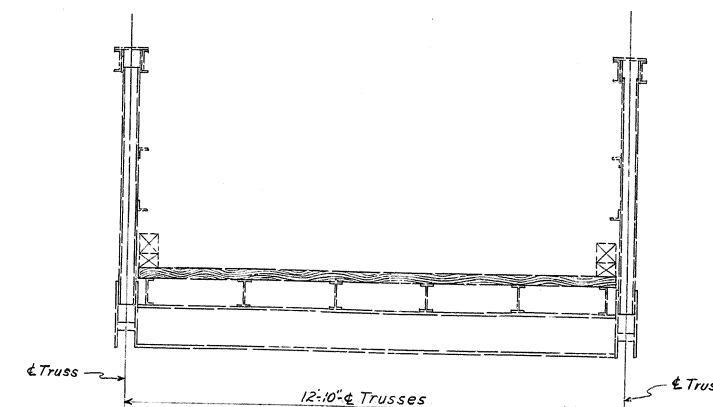
DRAWING
13858

MODEL

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



ELEVATION-EXIST. BRIDGE



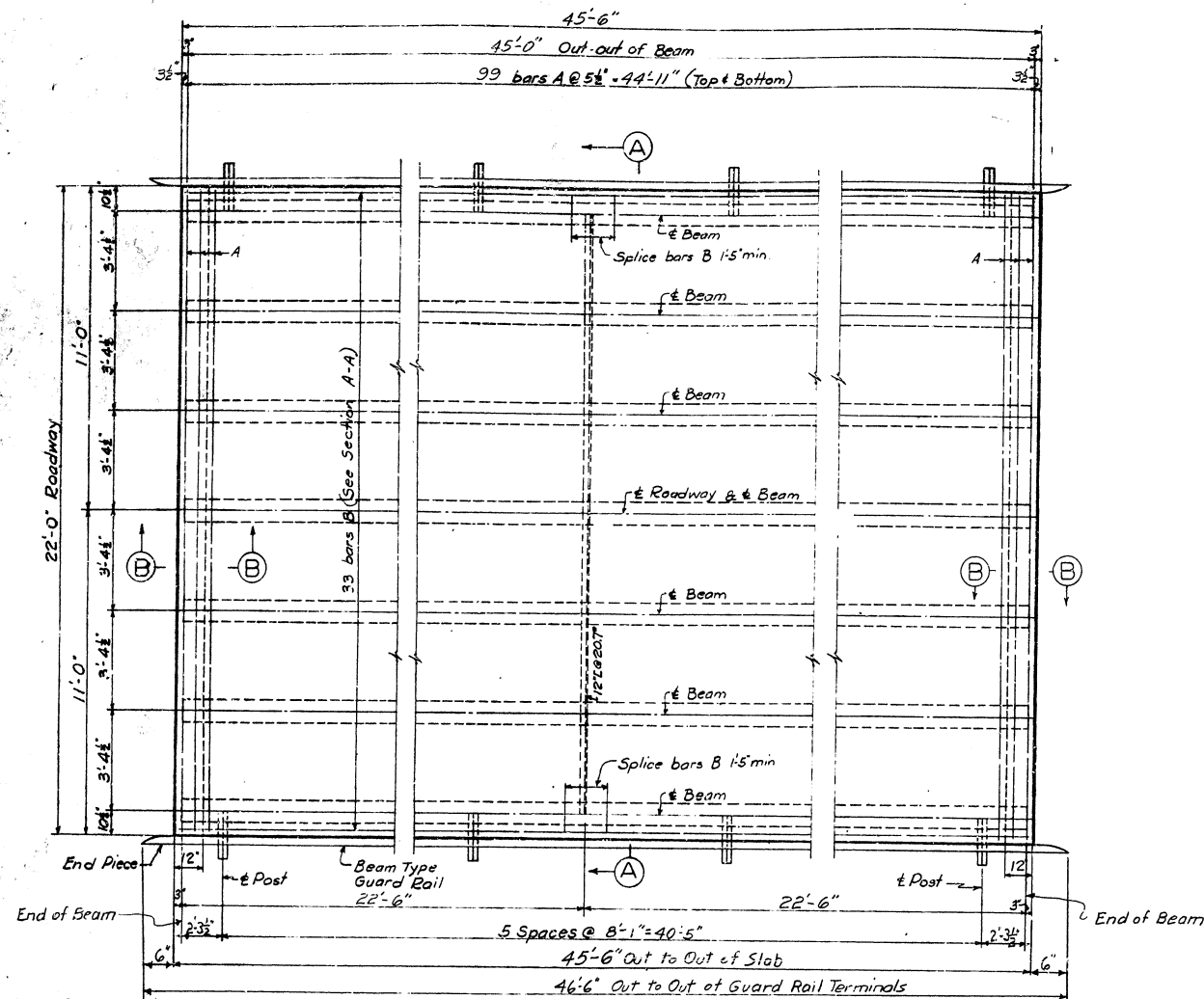
SECTION - EXISTING BRIDGE

Sheet 3 of 6

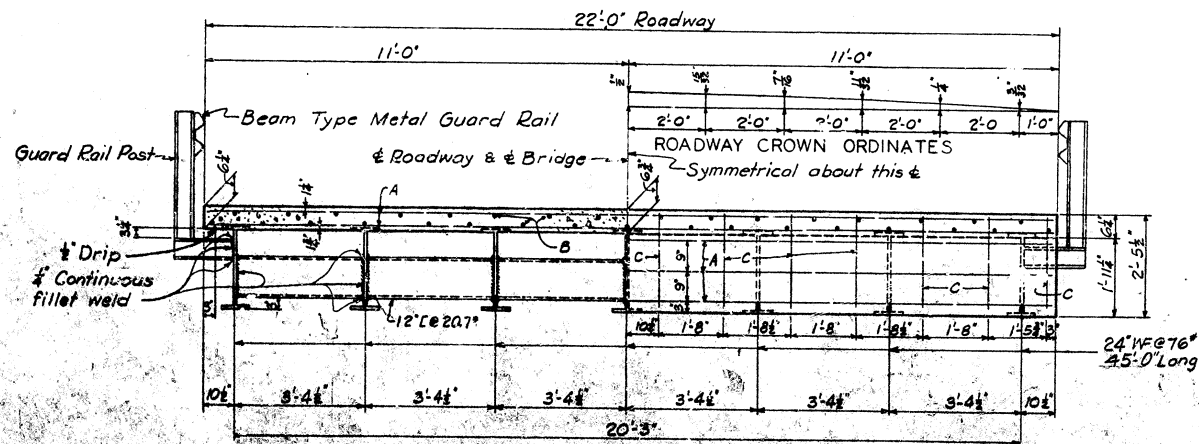
Repairs to Bridge over Buck Fork Cr.

COMMONWEALTH OF KENTUCKY	
DEPARTMENT OF HIGHWAYS	
FRANKFORT	
COUNTY OF	
CHRISTIAN	
CARL-OVIL-ALLEGRA	
ROAD	
STATION	PROJECT NO.
BRIDGE NUMBER MP 24-345-2	DRAWING NO. 13858

DESIGNED BY	CHECKED BY	DATE
DRAWN BY	CHECKED BY	DATE



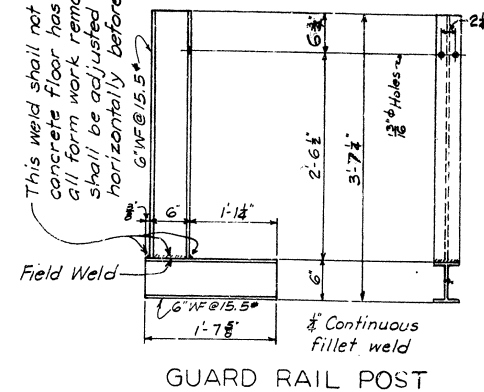
PLAN



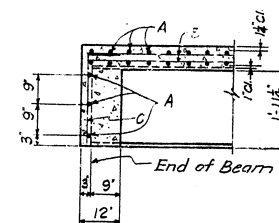
HALF SECTION A-A

HALF END ELEVATION

This weld shall not be made until the concrete floor has been poured and all form work removed. The posts shall be adjusted vertically and horizontally before welding same.



GUARD RAIL POST



SECTION B-B

BILL OF MATERIAL	
STRUCTURAL STEEL	
No.	Description
12	Guard Rail Posts
6	12" E @ 20.7" x 3'-4" Long, Diaphragms

BILL OF REINFORCEMENT									
MARK	TYPE	NO.	SIZE	LENGTH FT. IN.	LOCATION	1		6	
						FT.	IN.	FT.	IN.
A	Str	204	#4	21 9	Slab - Transverse				
B	"	66	"	23 4	" - Longitudinal				
C	(1)	28	"	3 1	End Wall				
								</	

ESTIMATE OF QUANTITIES

Concrete, Class 'A'	22.7	Cu.Yd.
Reinforcement	4050.	Lbs.
Structural Steel	1296.	Lbs.
Beam Type Guard Rail	84.	Lin. Ft.
Guard Rail Terminals	4.	Pieces

STRUCTURAL STEEL	
To be furnished by Dept. of Highways at Frankfort	
No.	Description
7	24" W @ 76" x 45'-0" Beams

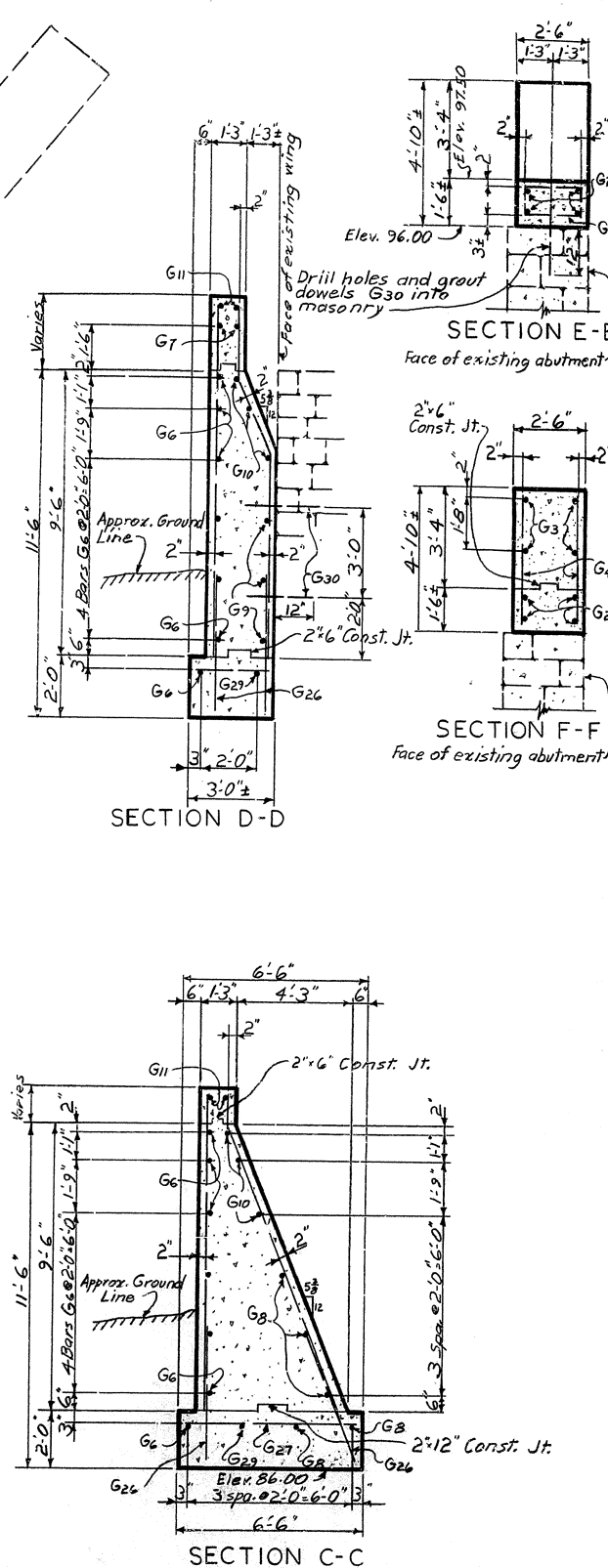
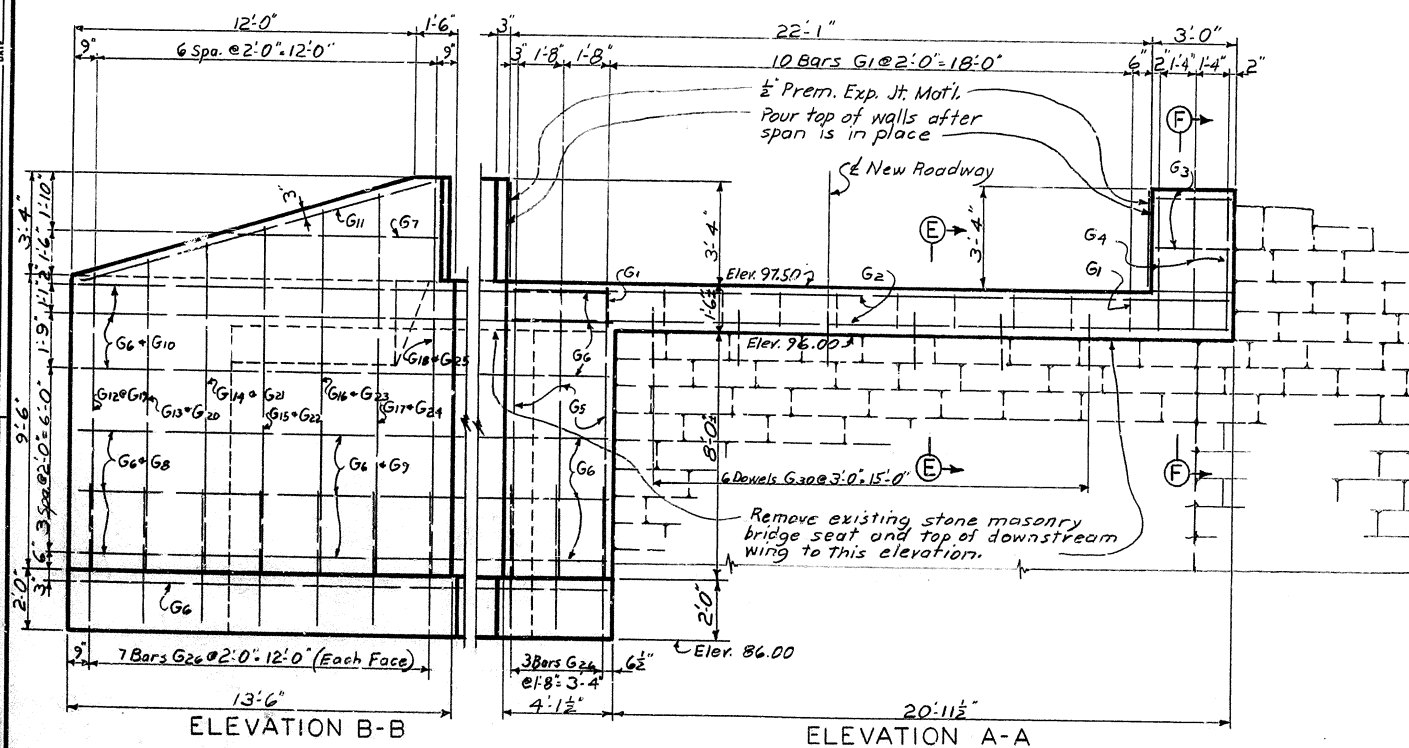
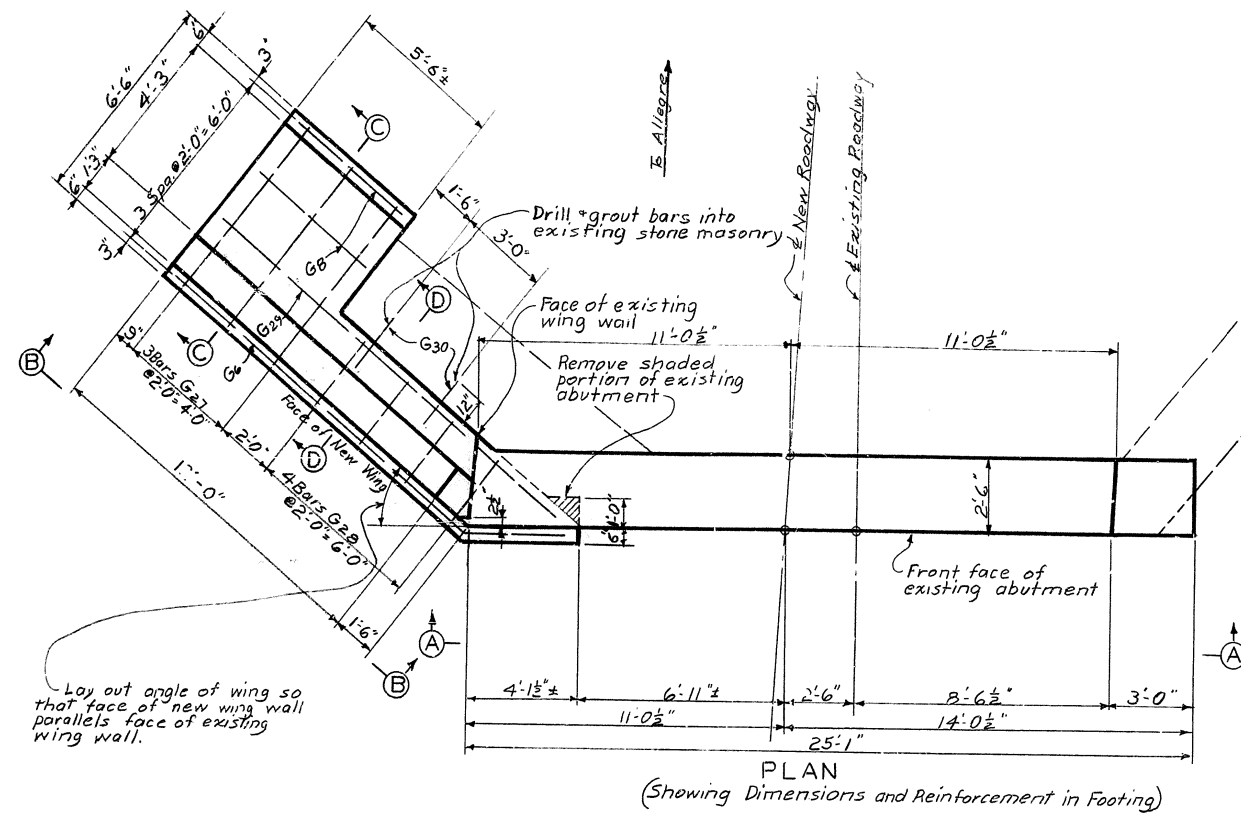
Sheet 4 of 6

Repairs to Bridge over Buck Fork Creek

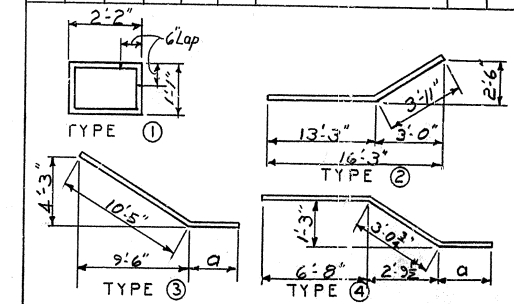
COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF
CHRISTIAN
CARL - OVIL - ALLEGRE

STATION	ROAD	PROJECT NO.
BRIDGE NUMBER	MP 24-345-2	NO. 13858

DECK



		FED. ROAD DIST.		STATE		FED. AID PER. MC.		FISCAL YEAR		SHEET NO.		TOTAL SHEETS	
		7		100									
BILL OF REINFORCEMENT													
Mark	Type	No.	Size	Length Ft.	In.	Location	ft.	in.					
G1	(1)	10	#4	7	3	Bridge Seat							
G2	Str	4	#6	24	10	" "							
G3	"	4	#4	2	10	Wing Wall							
G4	"	6	"	4	6	"							
G5	"	3	"	9	4	Bridge Seat							
G6	(2)	7	"	17	2	Wing Wall							
G7	Str	2	"	6	6	" "							
G8	"	5	"	5	2	" " + Footing							
G9	"	3	"	10	0	" "							
G10	"	3	"	14	0	" "							
G11	"	2	"	12	6	" "							
G12	"	1	"	9	6	" "							
G13	"	1	"	10	1	" "							
G14	"	1	"	10	7	" "							
G15	"	1	"	11	2	" "							
G16	"	1	"	11	9	" "							
G17	"	1	"	12	3	" "							
G18	"	1	"	12	8	" "							
G19	"	1	"	10	5	" "							
G20	(3)	1	"	11	0	" "			0	7			
G21	"	1	"	11	7	" "			1	2			
G22	(4)	1	"	11	6	" "			1	9			
G23	"	1	"	12	1	" "			2	4			
G24	"	1	"	12	7	" "			2	10			
G25	"	1	"	12	11	" "			3	2			
G26	Str	17	"	3	6	Dowels							
G27	"	3	"	6	3	Footing							
G28	"	4	"	2	8	"							
G29	"	1	"	14	6	"							
G30	"	10	#6	2	0	Dowels							



ESTIMATE OF QUANTITIES		
Concrete Class "A"	24.3	Cu. Yd.
Reinforcement	618.	Lbs.
Excavation, Common	25.	Cu. Yd.
Removing Stone Masonry	8.	Cu. Yd.

Sheet 5 of 6

Repairs to Bridge over Buck Fork creek

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF

CHRISTIAN
CARL - OVIL - ALLEGRE

ROAD

STATION	PROJECT NO.
BRIDGE NUMBER MP 24-345-2	DRAWING

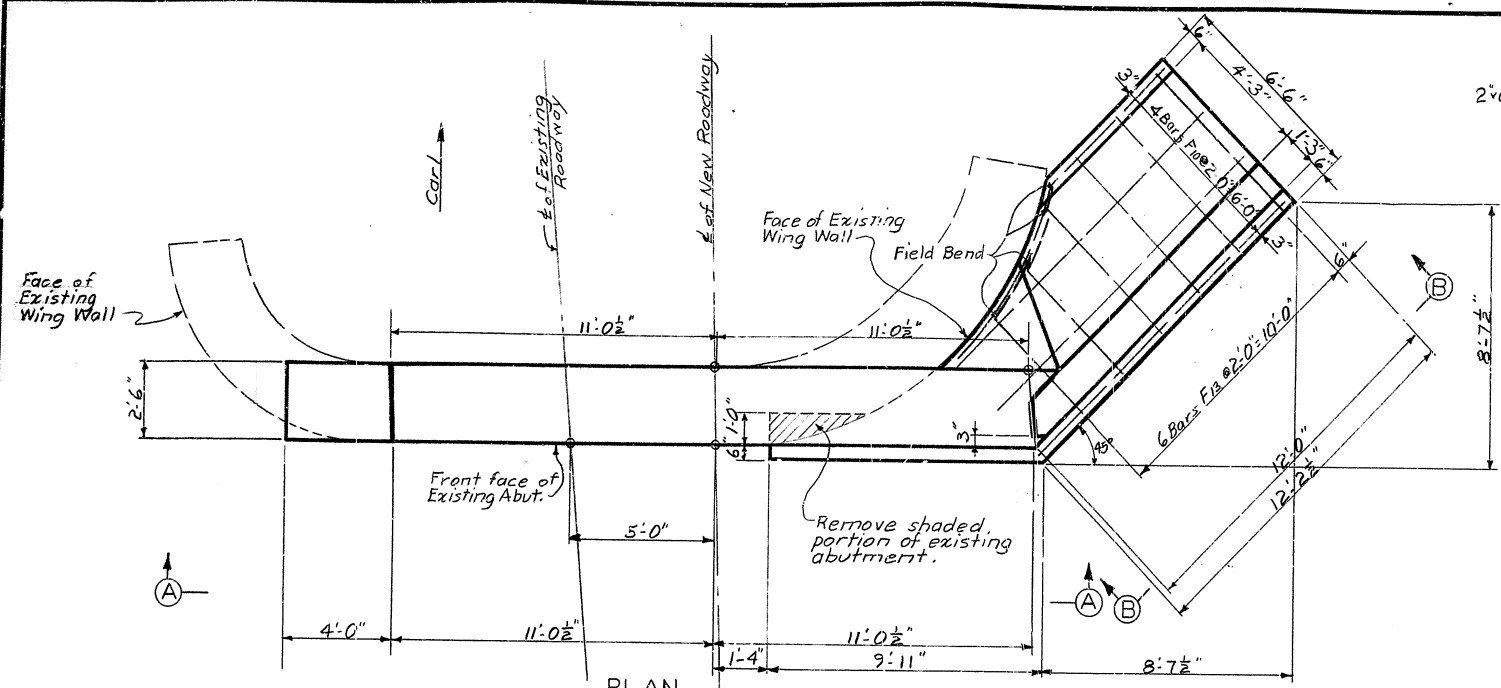
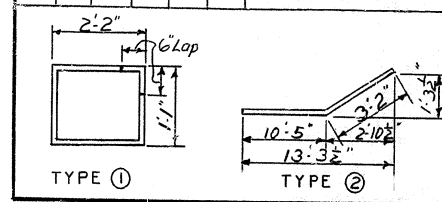
PROJECT NO.

DRAWING
NO. 13858

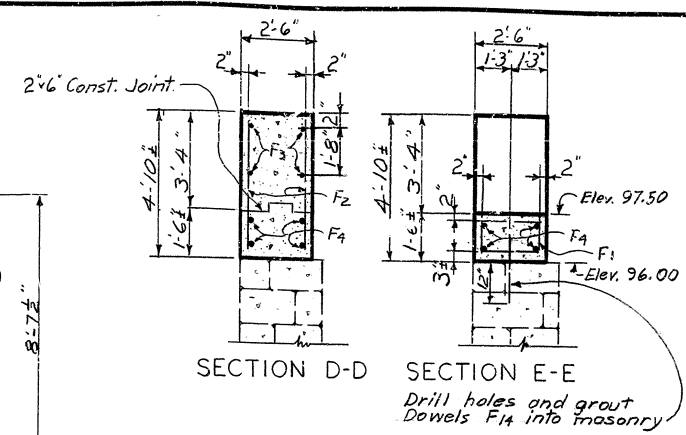
FED. ROAD DIST.	STAT.	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				

REINFORCEMENT

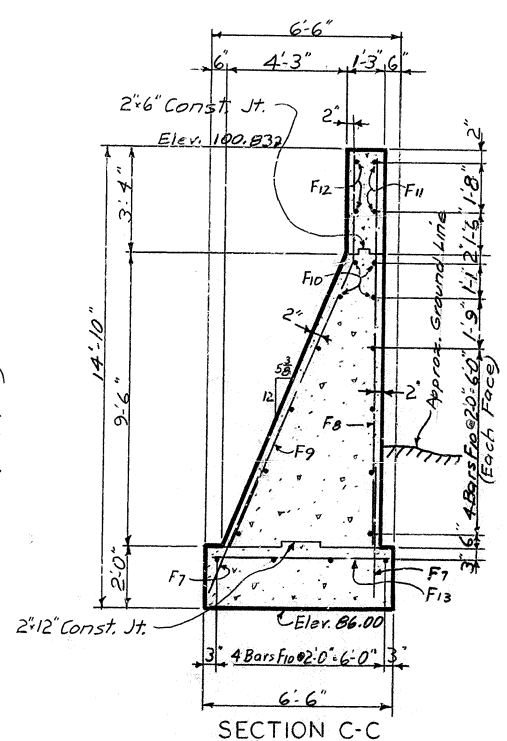
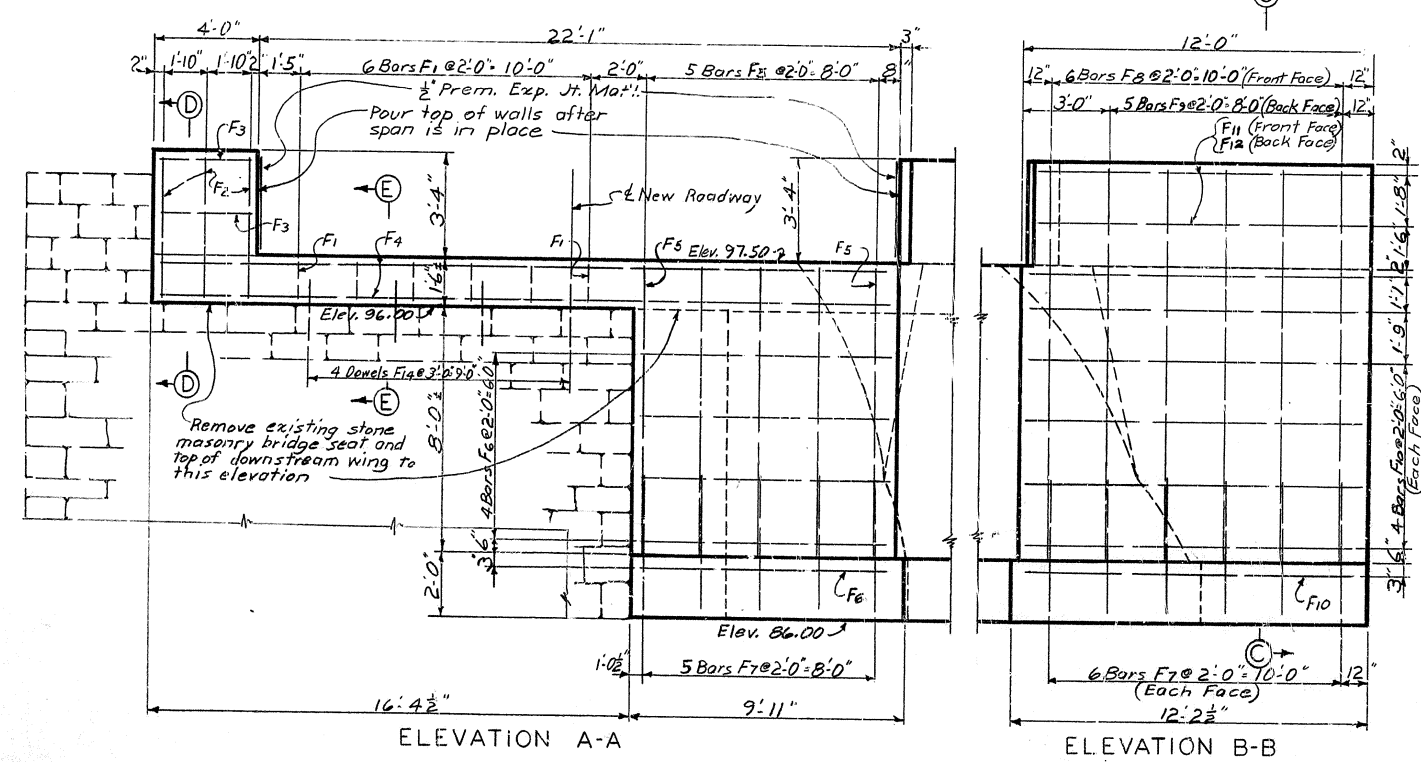
Mark	Type	No.	Size	Length	Location
F1	(1)	6	#4	7' 3"	Bridge Seat
F2	Str.	6	"	4' 6"	Wing Wall
F3	"	4	"	3' 9"	"
F4	"	4	#6	25' 10"	Bridge Seat
F5	"	5	#4	9' 4"	"
F6	"	5	"	9' 5"	"
F7	"	17	"	3' 6"	Walls + Footing
F8	"	6	"	12' 8"	Wing Wall
F9	(2)	5	"	13' 7"	"
F10	Str.	16	"	11' 9"	"
F11	"	2	"	11' 5"	"
F12	"	2	"	10' 6"	"
F13	"	6	"	6' 2"	Footing
F14	"	4	#6	2' 0"	Dowels



PLAN
(Showing Dimensions and Reinforcement in Footing)



SECTION D-D SECTION E-E
Drill holes and grout Dowels fit into masonry



SECTION C-C

ESTIMATE OF QUANTITIES

Concrete, Class "A"	31.3	Cu. Yd.
Reinforcement	602.	Lbs.
Excavation, Common	25.	Cu. Yd.
Removing Stone Masonry	10.	Cu. Yd.

Sheet 6 of 6

Repairs to Bridge over Buck Fork Creek

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF
CHRISTIAN
CARL-OVIL - ALLEGRE

ROAD PROJECT NO.

STATION BRIDGE NUMBER MP 24-345-2

DRAWING INDEX NO. 13858

ABUTMENT NO 2

DESIGNED BY: [Signature] CHECKED BY: [Signature] DATE: [Date]
 DETAILED BY: [Signature] CHECKED BY: [Signature] DATE: [Date]
 TRACED BY: [Signature] CHECKED BY: [Signature] DATE: [Date]