

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

PLAN AND PROFILE OF PROPOSED
STATE HIGHWAY

MARION COUNTY
BRIDGE REPAIRS
MP 78-102-2

SHEET NO.	DESCRIPTION
1	Location
2	Layout, General Note and Quantities
3	Structural Steel and Abutments
4	Sections
5	Open Grid Floor
6	Open Grid Floor

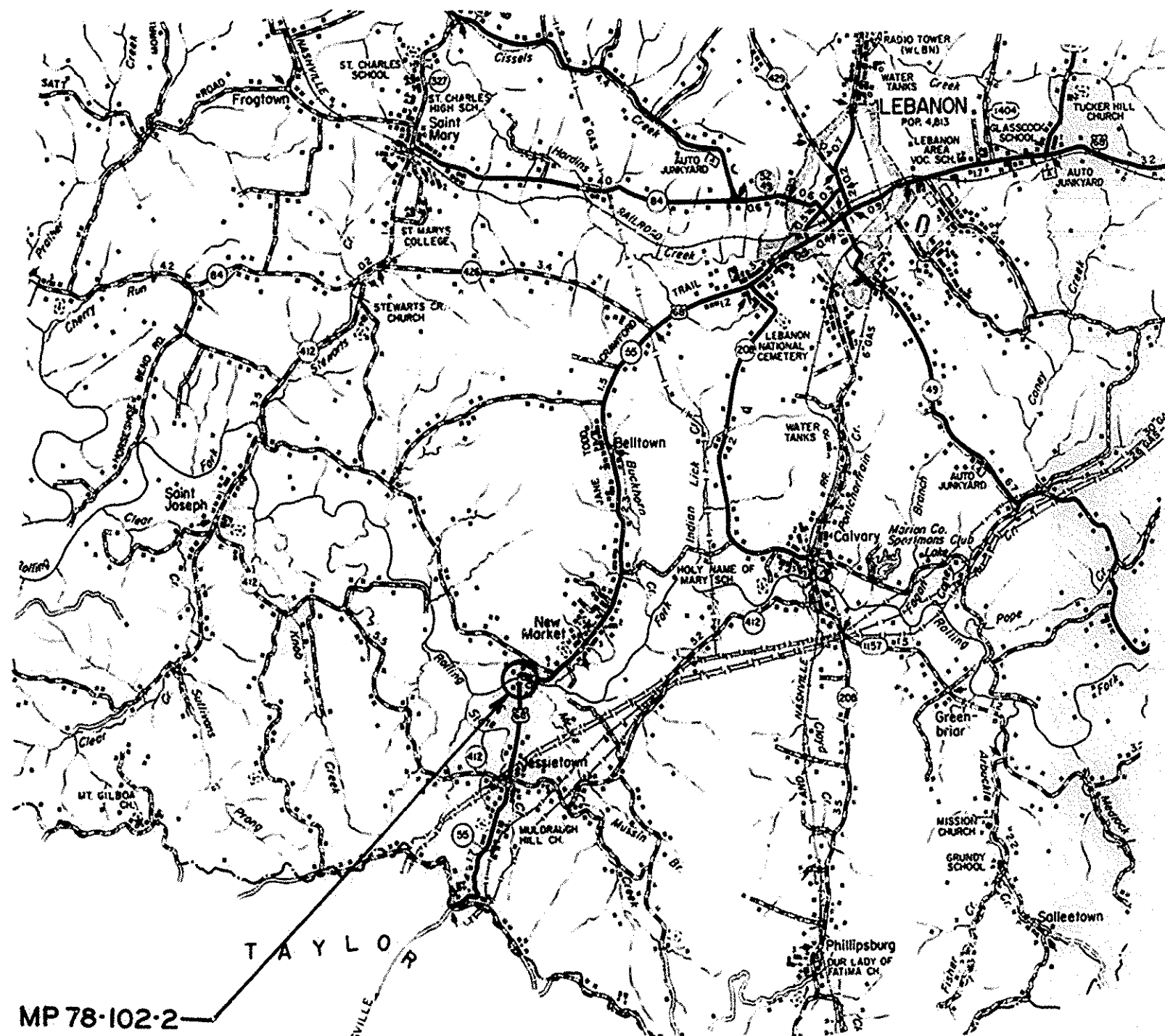
Standard Drawings

19.01	Road Closed Sign
17.03L	Steel Beam Guardrail
17.16C	Guardrail Terminal Section

Special Provisions

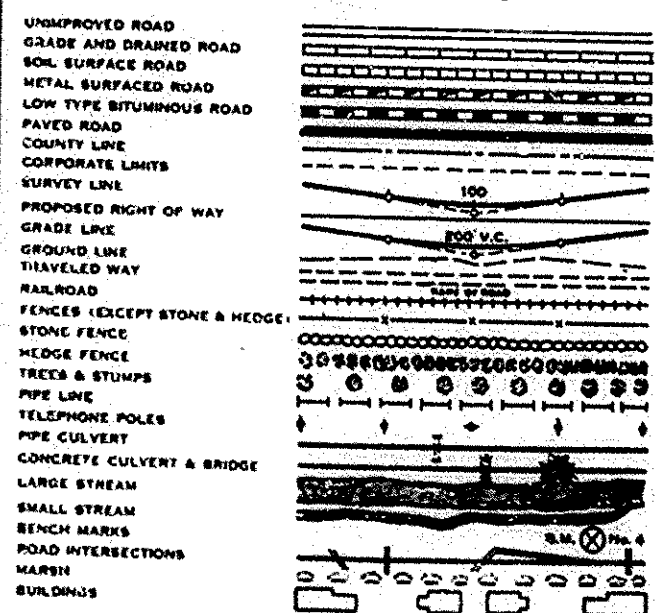
15	Bid Proposal Guaranty and Contract Bonds
35B	Class AA Concrete
46C	Water Pollution Controls
75A	Operation of Construction Vehicles Over Pavements and Structures
77C	Styrene Butadiene Protective Coating
80B	Blast Cleaning and Painting Structural Steel
83	Partial Payments

Chronological Listing of Revisions to the 1965 Edition of the Standard Specifications.



LAYOUT MAP

CONVENTIONAL SIGNS



LETTING DATE 2-17-72

REPAIRS TO BRIDGE OVER ROLLING FORK

SHEET 1 OF 6

DRAWING NO. 18612

KENTUCKY
DEPARTMENT OF HIGHWAYS
COUNTY OF
MARION
(US68) LEBANON-CAMPBELLVILLE
ROAD
STATE PROJECT
No. MP 78-102-2

APPROVED _____ 19 ____

BY: _____
COMMISSIONER OF HIGHWAYS

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
RECOMMENDED FOR APPROVAL:

DISTRICT ENGINEER _____ DATE _____

APPROVED _____

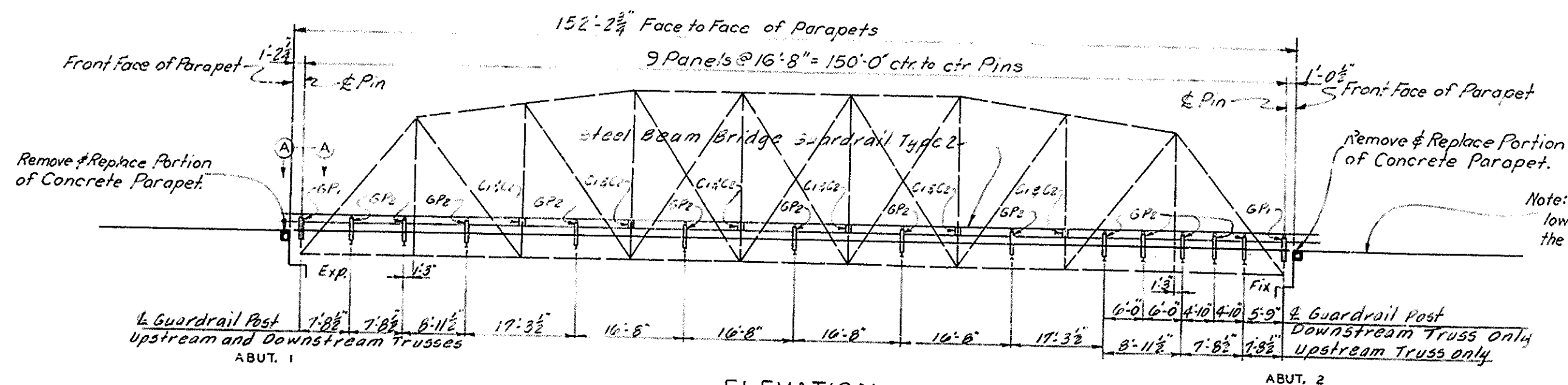
DIVISION ENGINEER _____ DATE _____

SURVEYED _____ BY _____ CHIEF OF PARTY
PROJECT APPROVED _____ BY _____
PLAN CHECKED _____ BY _____
SURVEY AND PLAN APPROVED _____ BY _____ DIRECTOR OF HIGHWAYS
SURVEY AND PLAN APPROVED _____ BY _____ STATE HIGHWAY ENGINEER

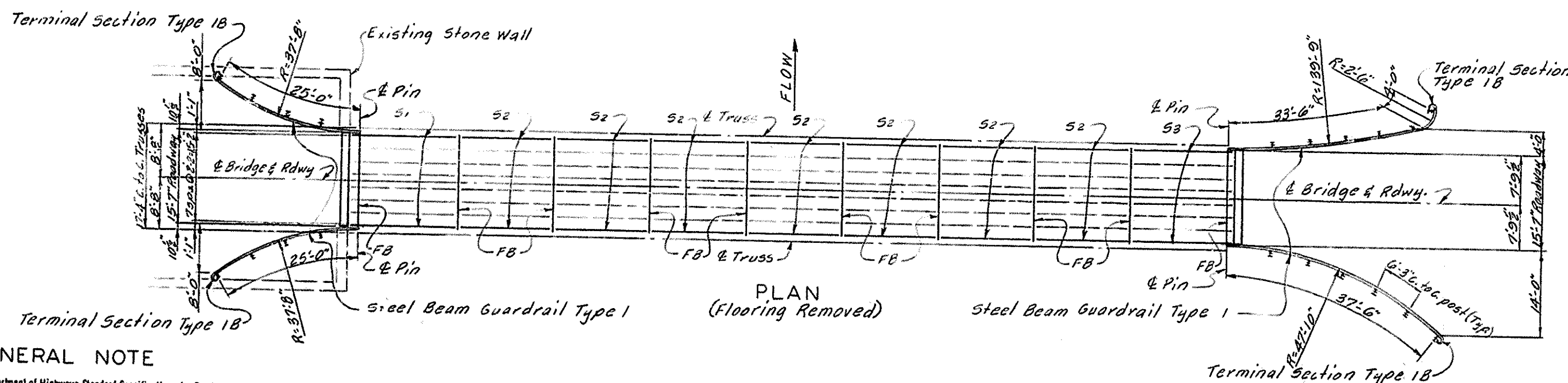
LETTING DATE:

Campbells ville

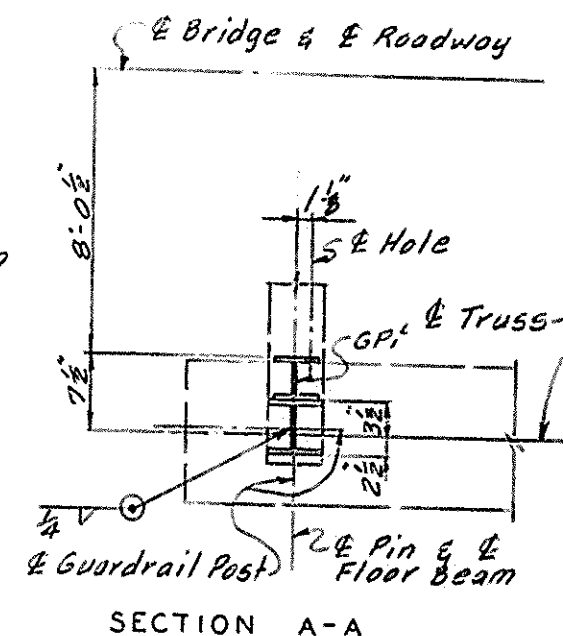
Lebanon



ELEVATION



PLAN
(Flooring Removed)



SECTION A-A

GENERAL NOTE

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 H15 live load. (One Lane)

CONCRETE: Class AA Concrete is to be used throughout.

5" OPEN GRID FLOORING: The Contractor shall provide throughout the project at his option, 5" open grid flooring conforming to the type A, B, C, D, E or F as shown on the plans or any other 5" deep steel open grid flooring of similar composition and strength that is approved by the Engineer. The top of all flooring is to be serrated with notches at least 1/8" deep. After fabrication all surfaces of the steel shall be cleaned and painted in accordance with the Special Provision for Blast Cleaning and Painting Structural Steel, current edition, with the provisions that all paint may be applied to flooring by spraying, wire brush cleaning may be substituted for the blast cleaning, and the contractor shall have the option of applying the shop paint coat to the entire area of the grid without shielding areas to be field welded. The cost of furnishing and placing all steel flooring, rivets, welding materials, paint and incidentals necessary for the completed flooring shall be included in the unit price bid for 5" Open Grid Flooring.

REINFORCEMENT: Dimensions shown from the face of concrete to bars are clear distances. Spacing of bars is from center to center of bars.

BEVELED EDGES: All exposed concrete edges shall be beveled 7/8" unless otherwise shown.

PAYMENT FOR STRUCTURAL STEEL: Furnishing and placing structural and all incidental metal items which are called for on these plans but not included in the Estimate of Quantities shall be included in a lump sum bid for Structural Steel.

SHOP DRAWINGS: The Contractor shall submit full sets of prints of the detailed shop drawings for all structural steel, guardrail, and 5" open grid flooring to the Department for approval in accordance with Article 408-3.1A.1 of the Specifications.

PAINTING NEW STRUCTURAL STEEL: All new structural steel shall be cleaned and painted in accordance with the Special Provision for Blast Cleaning and Painting Structural Steel, current edition.

MILL TEST REPORTS: Notarized test reports shall be furnished in triplicate to the Department showing that all the materials used in the structural steel, guardrail and 5" open grid flooring conform to the requirements of the Specifications.

WELDING: All welding and welding materials shall conform to the Specifications for Welded Highway and Railway Bridges of the American Welding Society, current edition. The cost of welding, welding materials, straightening, altering and burning new or existing steel is to be incidental to the lump sum bid for Structural Steel and the unit price bid for 5" Open Grid Flooring.

MATERIALS: ASTM Specifications, current edition, as designated below shall govern the materials furnished:
A36-70a Structural Steel A36-70a 5" Open Grid Flooring

STYRENE BUTADIENE PROTECTIVE COATING: Styrene Butadiene, protective coating shall be applied to the abutments in accordance with the Special Provisions for this item except that the limits shall be as detailed on the plans.

EXISTING STEEL: All existing steel that is to be replaced shall be removed and carefully stock-piled near the site at the direction of the Engineer. This steel is the property of the Department. The cost of this work is to be incidental to the lump sum bid for Structural Steel.

PROHIBITED FIELD WELDING: Except as shown on the plans, no welding of any nature shall be performed on the load carrying members of the bridge without the written consent of the Director, Division of Bridges, or his authorized representative, and then only in the manner and at the locations designated in the authorization.

PAINTING BURNT AREAS: All areas of new or existing structural steel on which the paint has been damaged by the Contractor with weld burns or by other means, and the entire top surface areas of all stringers, shall be cleaned and spot painted in accordance with the Special Provision for Blast Cleaning and Painting Structural Steel, current edition. The cost of this touch up painting is to be incidental to the lump sum bid for Structural Steel.

GUARDRAIL: Steel Beam guardrail, Type 2, to be placed on the bridge shall be 10 gage in accordance with the Specifications and Standard Drawing 17.03, current edition, except that the unit price bid for Guardrail, Type 2, is not to include furnishing and placing posts. Pay length for guardrail, Type 2, shall be center to center of end pins as shown on the plans. Steel Beam guardrail, Type 1, shall be 12 gage and shall be placed on the approaches in accordance with the plans and Standard Drawing 17.03, current edition.

EXISTING REINFORCING STEEL: The cost of cleaning existing reinforcing steel is to be included in the unit price bid for Removing Concrete Masonry.

DAMAGE TO THE STRUCTURE: The Contractor is responsible for any and all damage to the structure during reconstruction even to the replacement of the entire span, at his expense, should it be allowed to fail for any cause whatsoever.

REMOVE EXISTING BITUMINOUS SURFACING: The existing bituminous surfacing on the bridge as shown on the plans, shall be removed and disposed of off the right of way. The cost of this work is to be incidental to the unit price bid for Remove Concrete Masonry.

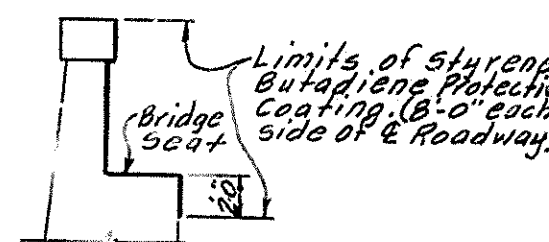
CLOSING BRIDGE TO TRAFFIC: The bridge may be closed to traffic during reconstruction. The bridge shall not be closed to traffic until all material for its reconstruction is obtained by the Contractor.

TOTAL ESTIMATE OF QUANTITIES

Concrete Class "AA"	1.8 Cu. Yds.
Steel Reinforcement	118. Lbs.
Structure Excavation, Common	3. Cu. Yds.
Remove Concrete Masonry	42. Cu. Yds.
Steel Beam Guardrail, Type 2	300. Lin. Ft.
Steel Beam Guardrail, Type 1	125. Lin. Ft.
Guardrail Terminal Type 1B	4. Each
5" Open Grid Floor	2303. sq. Ft.
Structural Steel ①	Lump Sum
Protective Coating, Styrene Butadiene	2. Gal.

① Estimated Weight of structural steel = 14434 Lbs.

SHEET 2



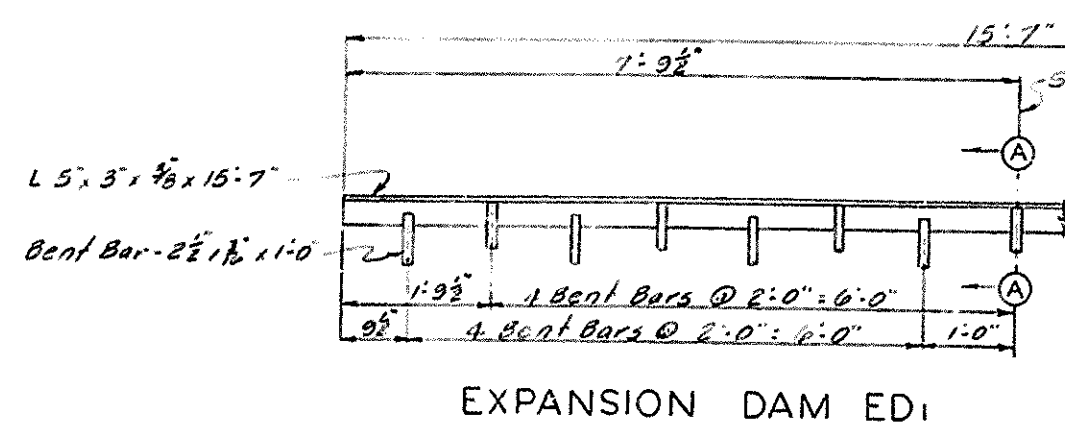
PROTECTIVE COATING LIMITS
(Typical for each abutment)

REPAIRS TO BRIDGE OVER ROLLING FORK RIVER

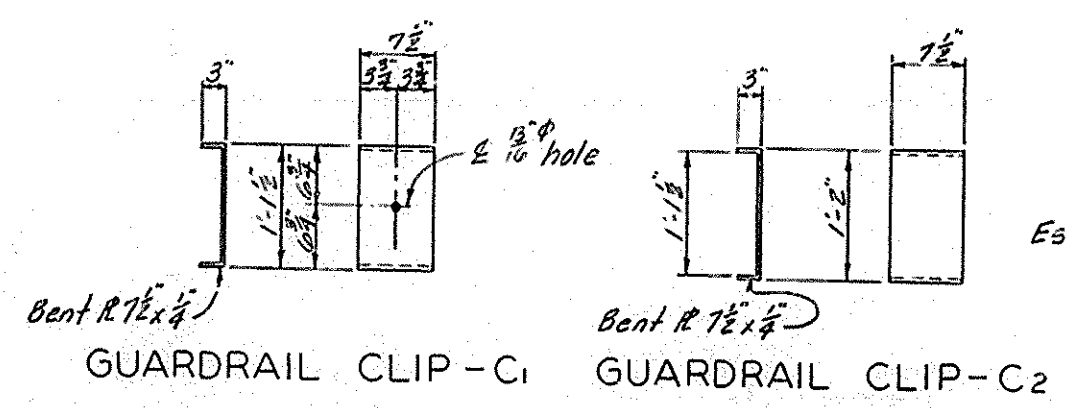
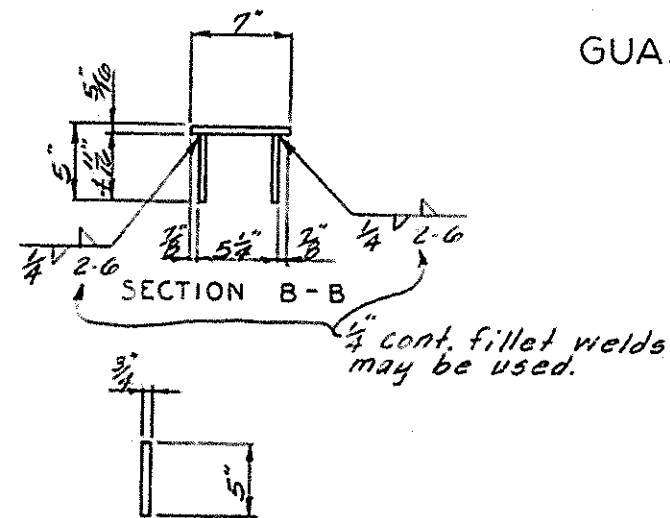
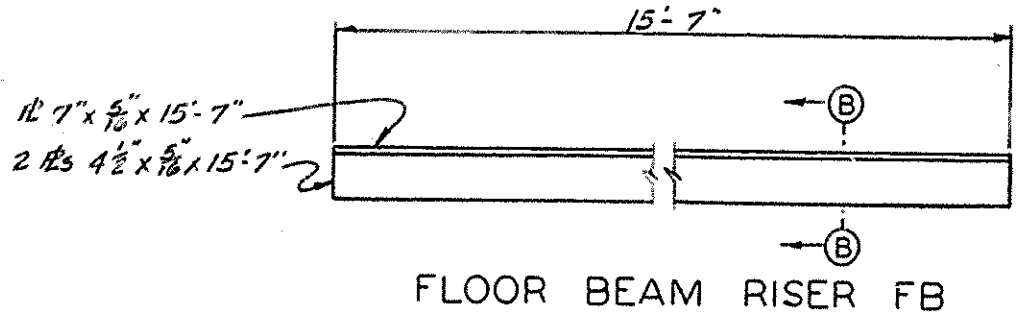
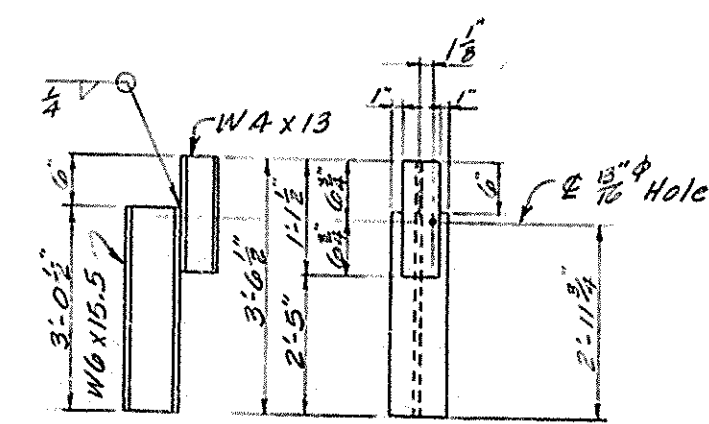
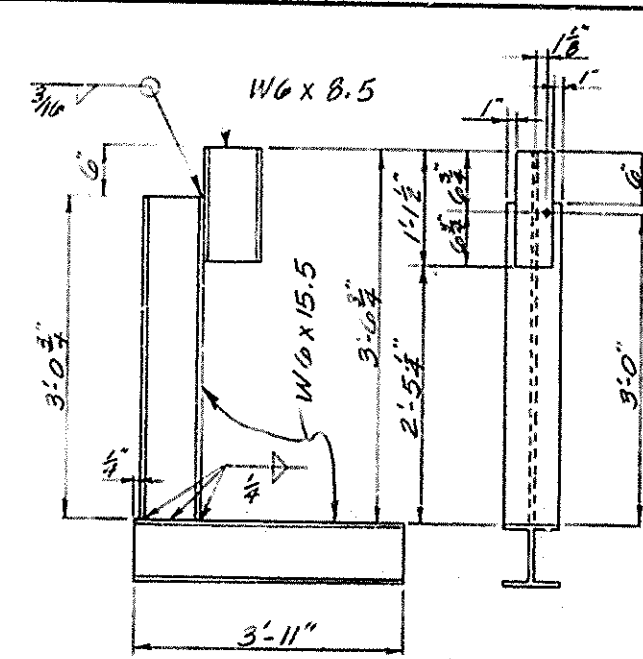
COMMONWEALTH OF KENTUCKY		
DEPARTMENT OF HIGHWAYS		
FRANKFORT		
COUNTY OF		
MARION		
(US68) LEBANON-CAMPBELLVILLE		
ROAD		
STATION	P. E. PROJECT NO.	DRAWING NO.
CONSTRUCTION PROJECT NO.	MAINTENANCE PROJECT NO.	
	MP 78-102-2	18612

LAYOUT & GENERAL NOTE

LETTING DATE



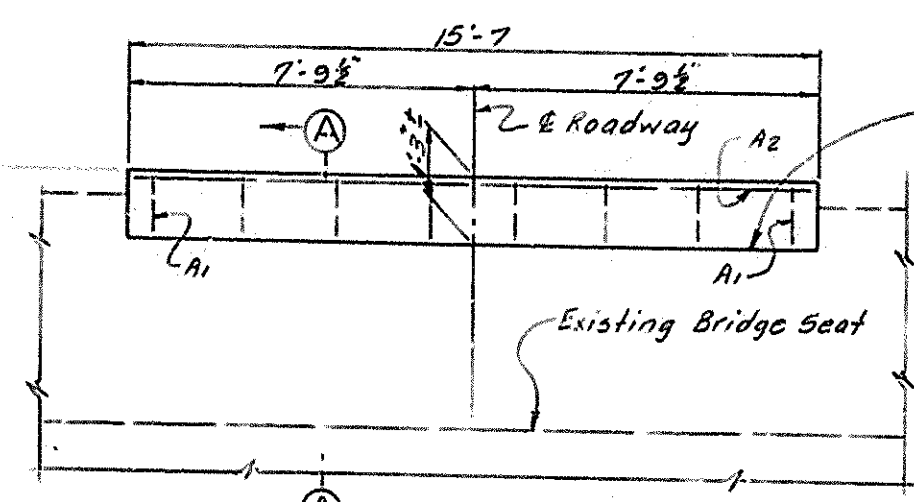
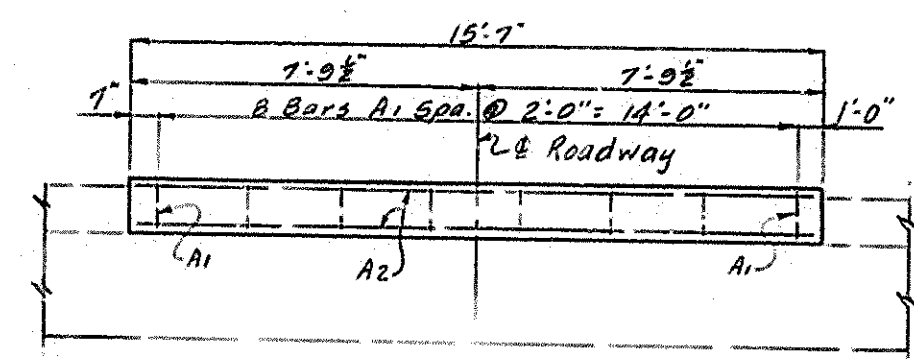
SECTION A-A



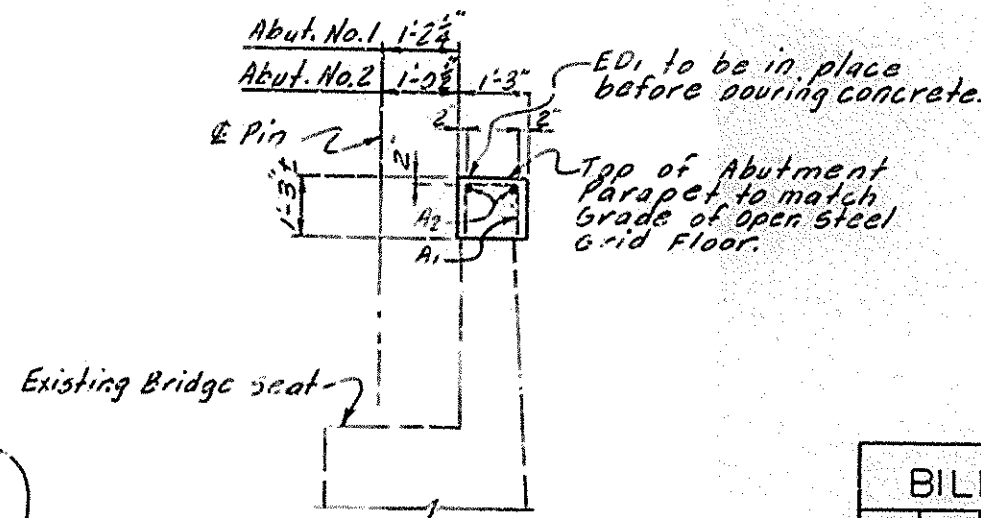
Estimated Weight of structural steel = 14,434 Lbs.

Mark	No	Description
ED1	2	Expansion Dam - see Detail
ED2	2	" " " "
GPR	2	Guardrail Post - " " "
GP2	24	" " " "
C1	12	Guardrail Clip - " " "
C2	12	" " " "
FB	10	Floor Beam Riser -
S1	2	Stringer - 510 x 25.4 x 17'-8 1/2"
S2	14	" " " " x 10'-7 3/4"
S3	2	" " " " x 17'-6 3/8"

STRUCTURAL STEEL

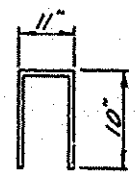


ABUTMENT 1 & 2



NOTE: Existing Reinforcement shall be cleaned and left to bond with new concrete. Remove existing concrete to this elevation. Do not damage existing reinforcement.

Mark	Type	No	Size	Length	Location
A1	(1)	16	#4	2	Parapet
A2	Str.	4	#6	15	"



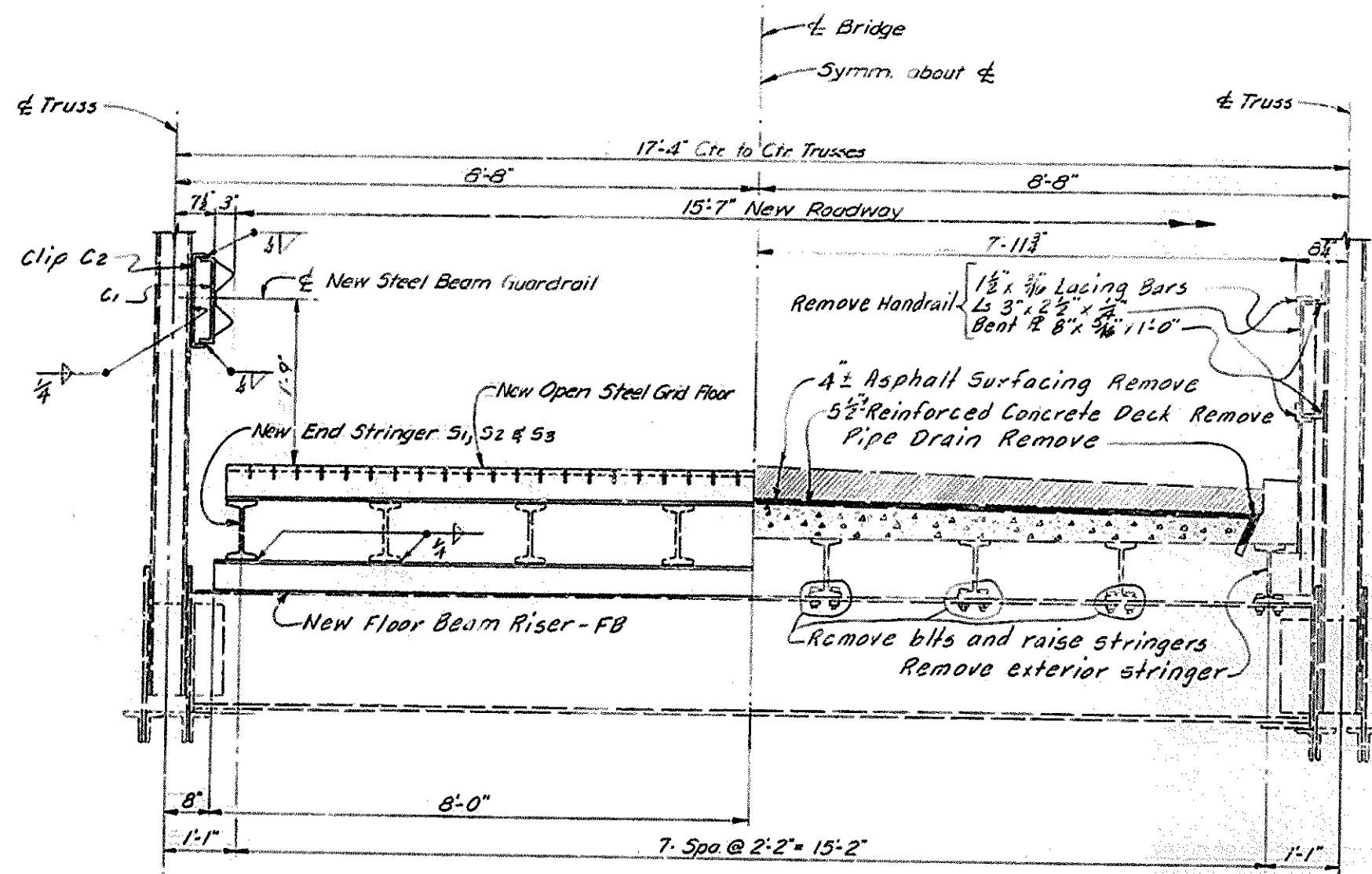
STRUCTURAL STEEL & ABUTMENTS

sheet 3
Repairs to Bridge over Rolling Fork River

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF
MARION
LEBANON-CAMPBELLVILLE
ROAD

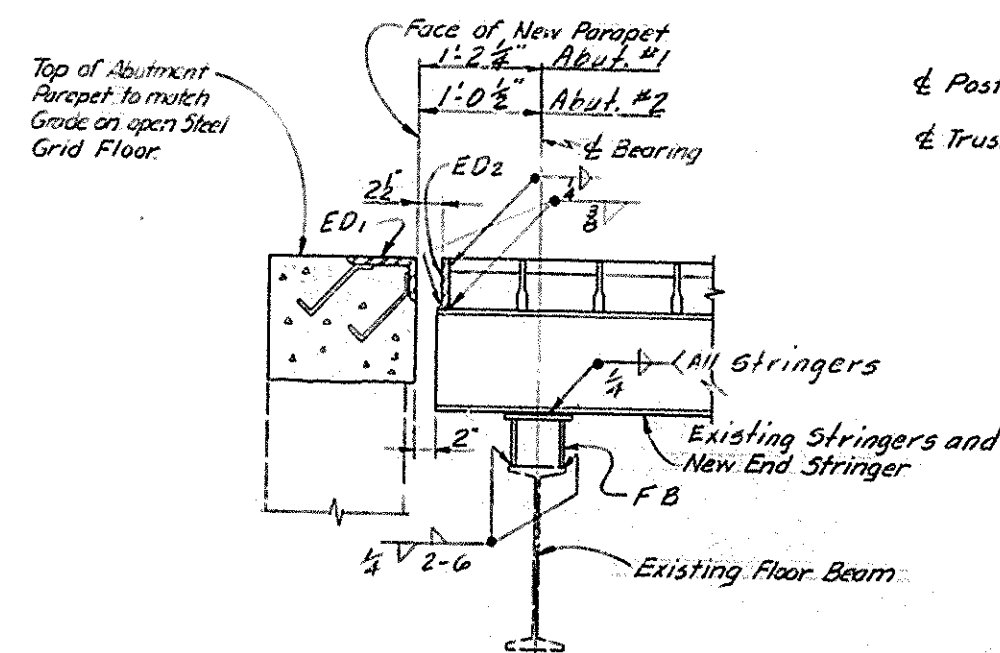
STATION
CONSTRUCTION PROJECT NO.
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MAINTENANCE PROJECT NO.
DRAWING NO.
18612

LETITIS DATE

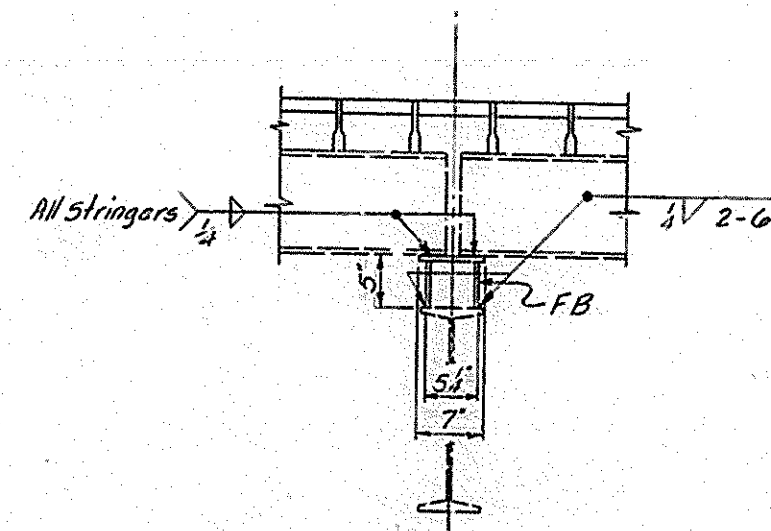


HALF SECTION

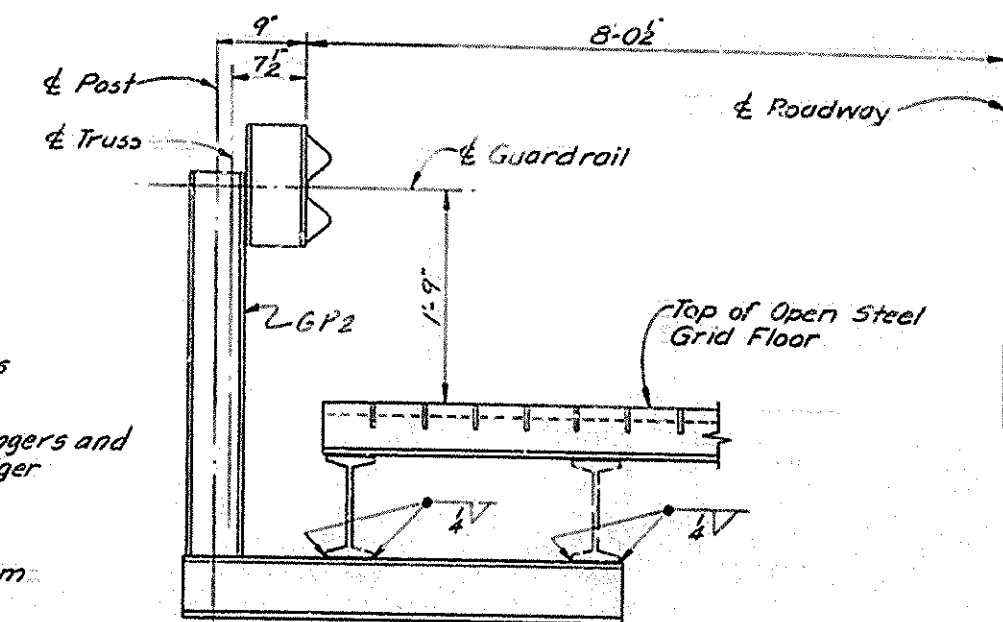
HALF SECTION EXISTING RDWY



SECTION AT ABUT. 1 & 2



SECTION AT INTERMEDIATE FLOOR BEAM



SECTION AT INTERMEDIATE GUARDRAIL POST GP2

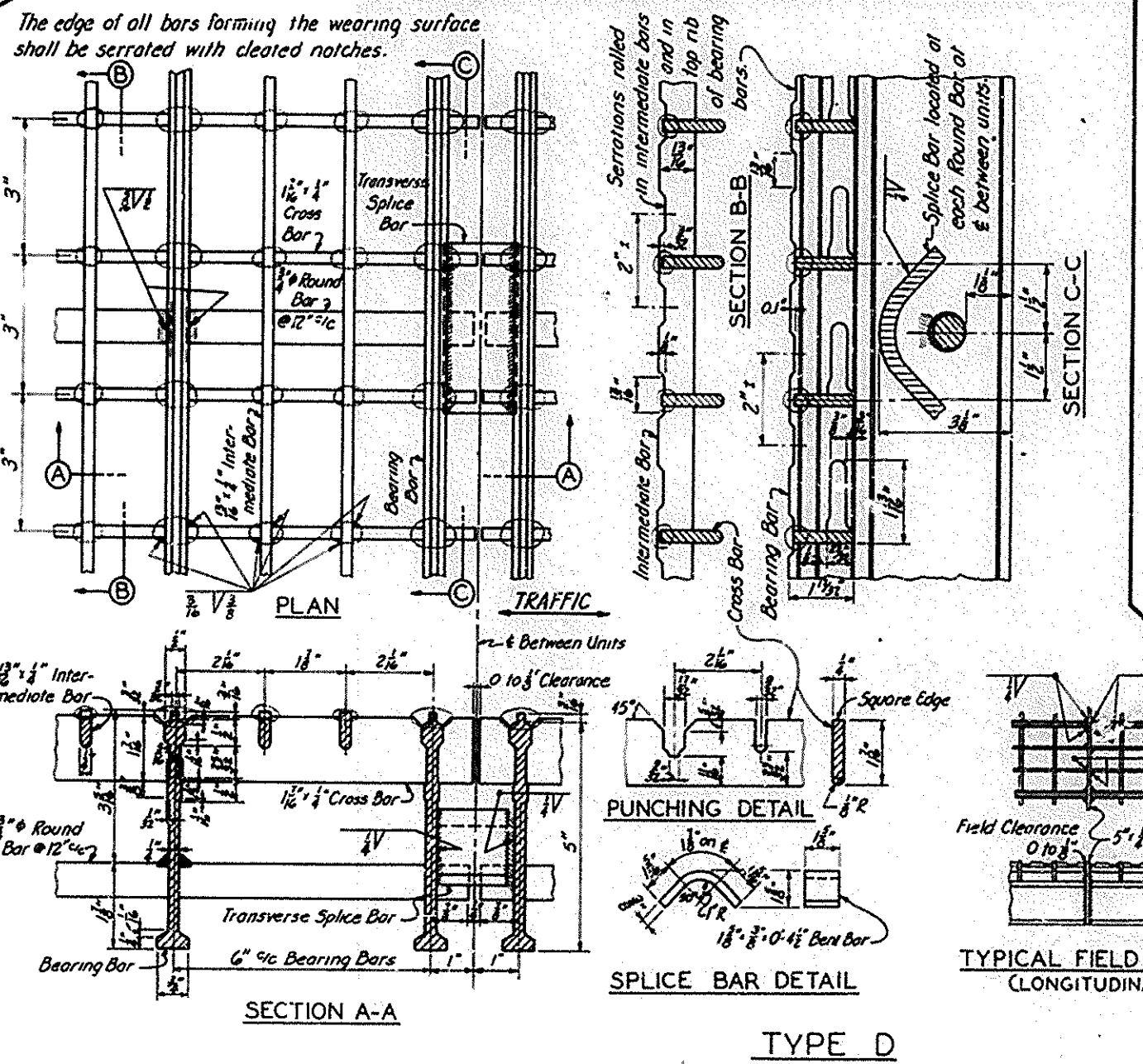
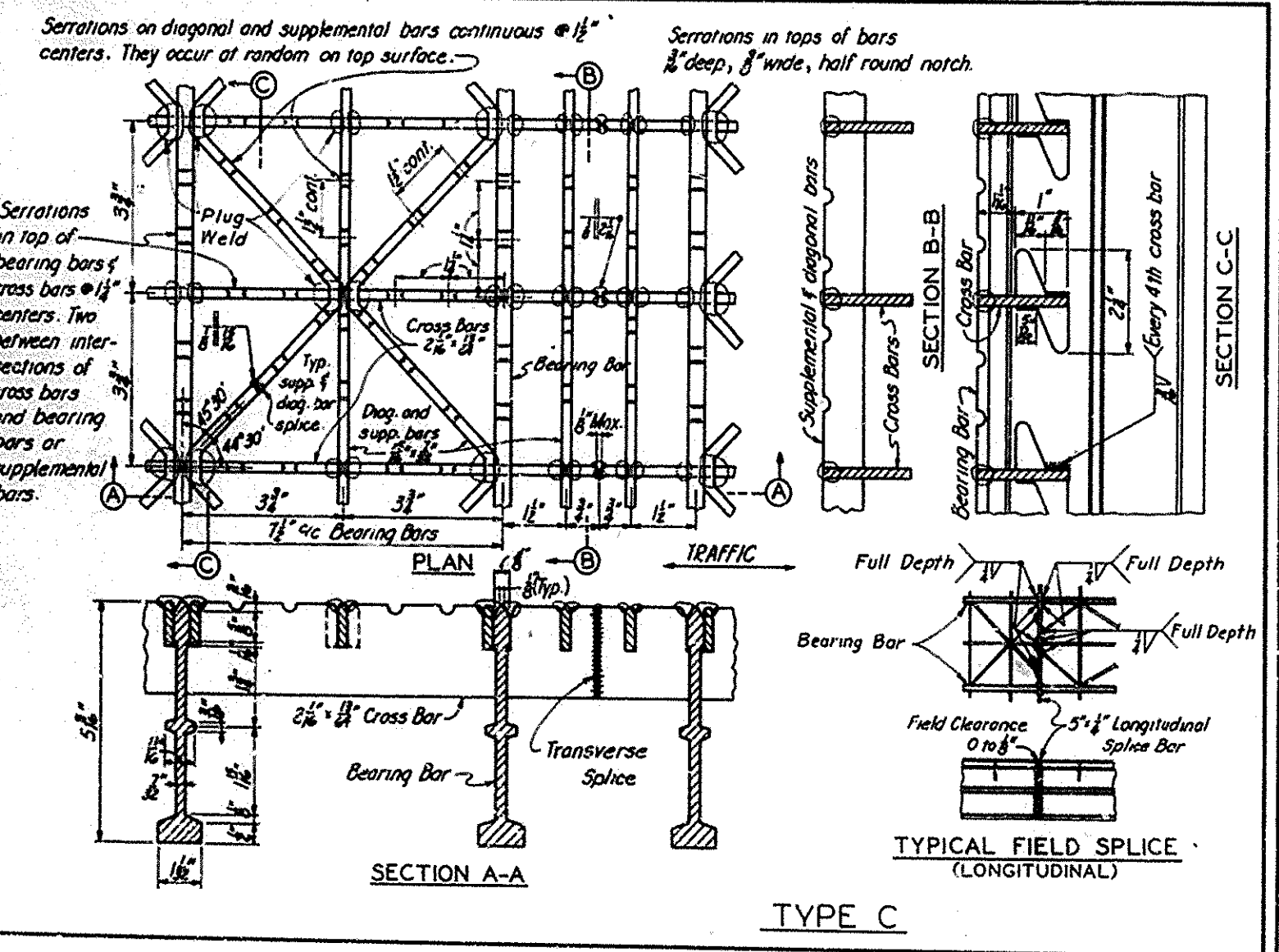
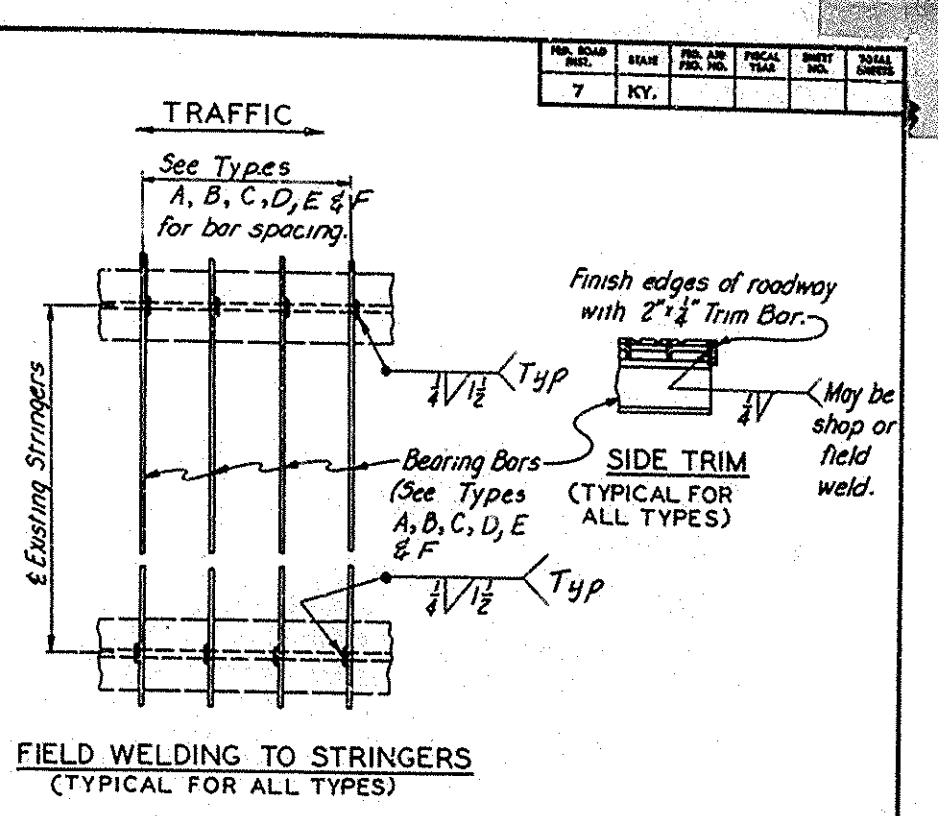
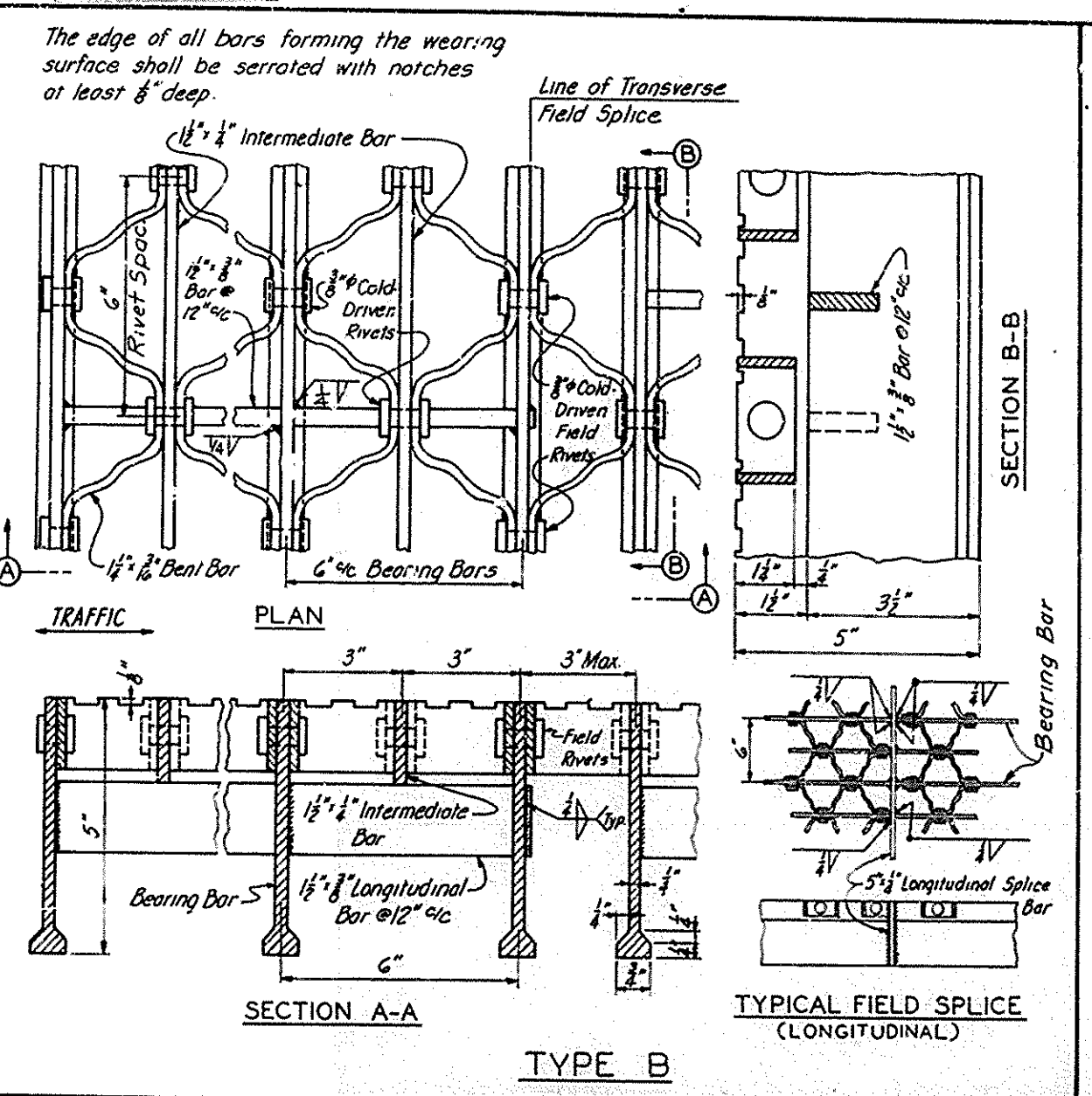
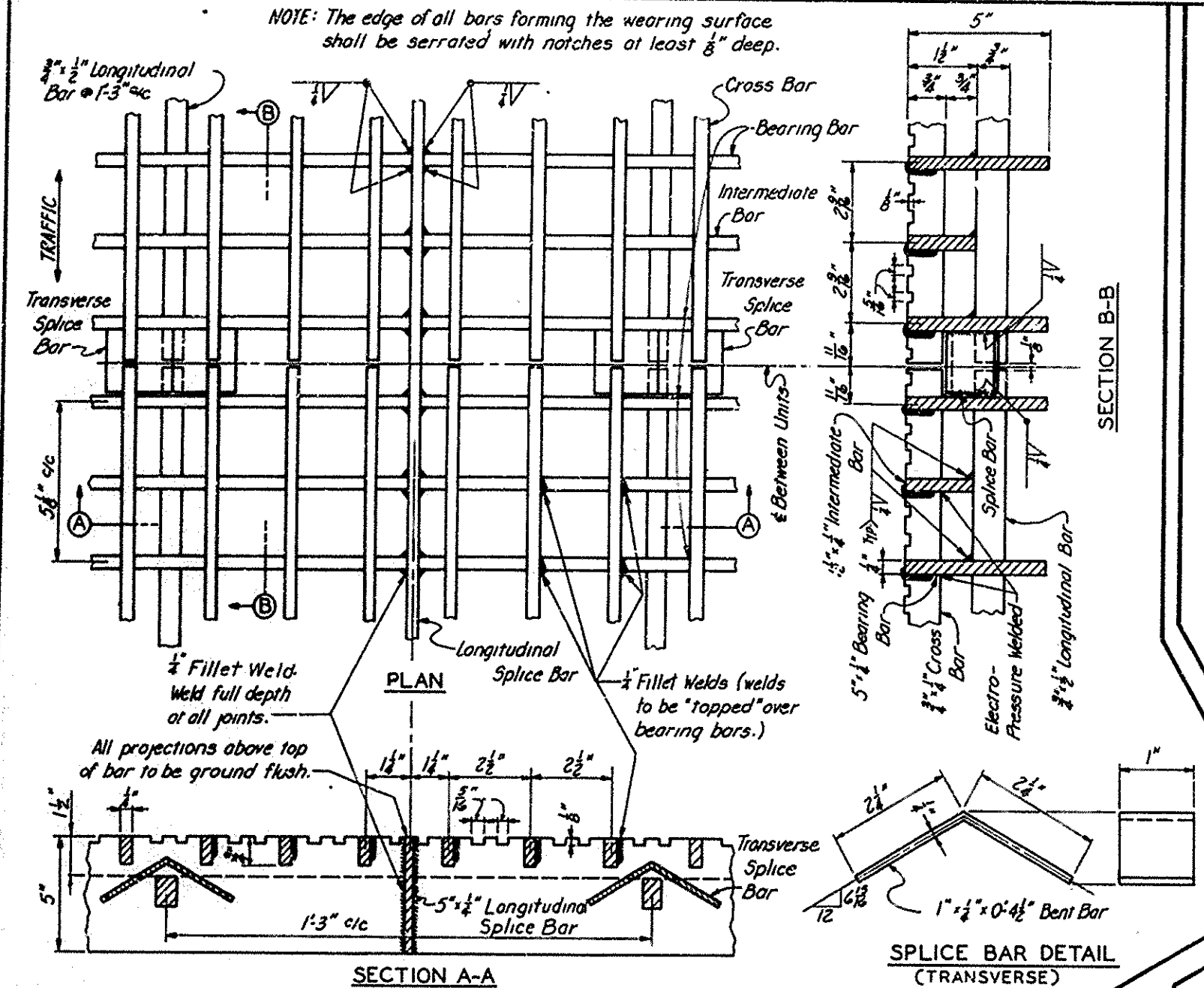
SECTIONS

Sheet 4

REPAIRS TO BRIDGE OVER ROLLING FORK RIVER

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF
MARION
LEBANON - CAMPBELLSVILLE

ROAD
STATION
CONSTRUCTION PROJECT NO.
P.E. PROJECT NO.
MAINTENANCE PROJECT NO.
DRAWING NO.
18612



5" OPEN GRID FLOORING
BEARING BARS PERPENDICULAR TO TRAFFIC

Sheet 5

Repairs to Bridge over Rolling Fork

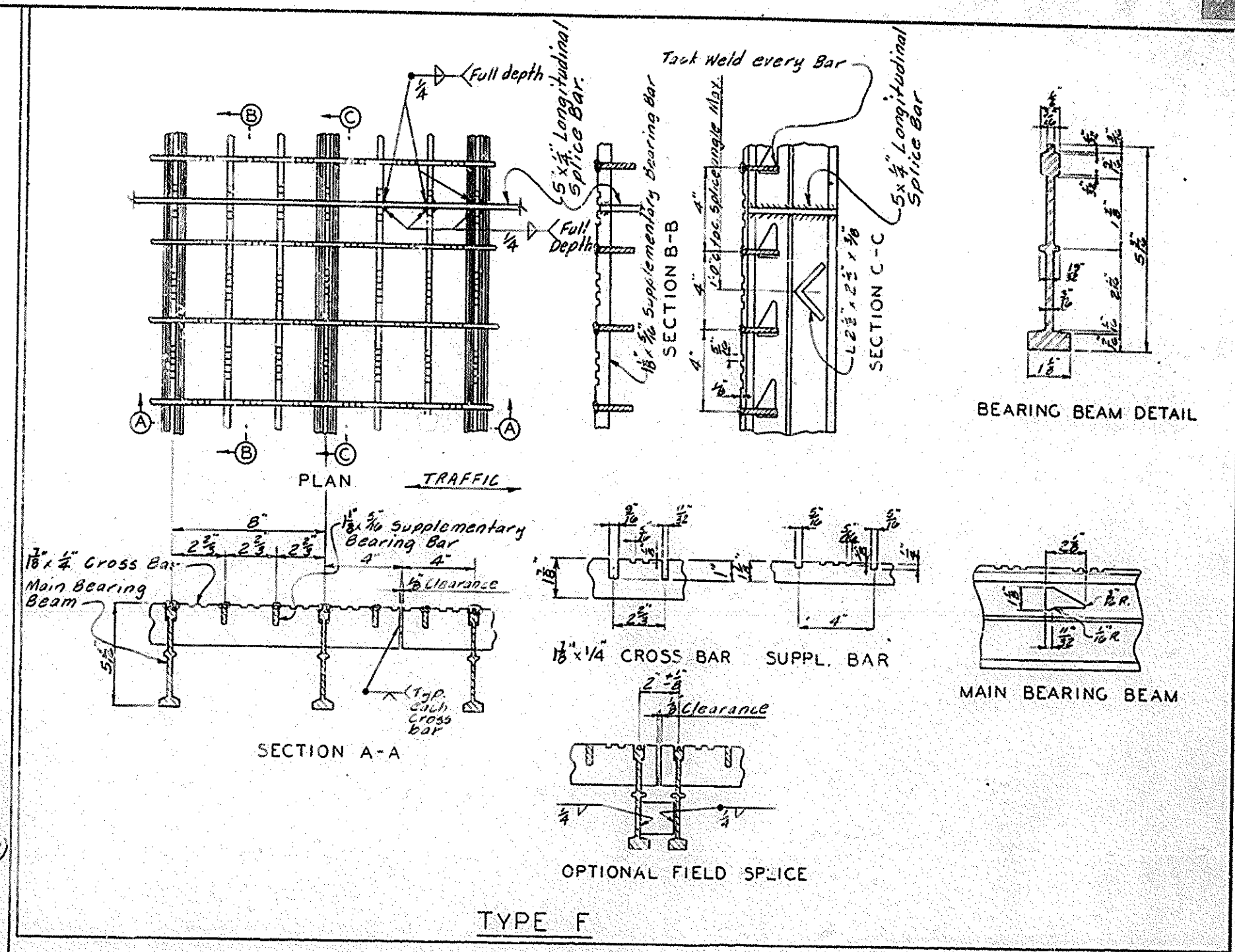
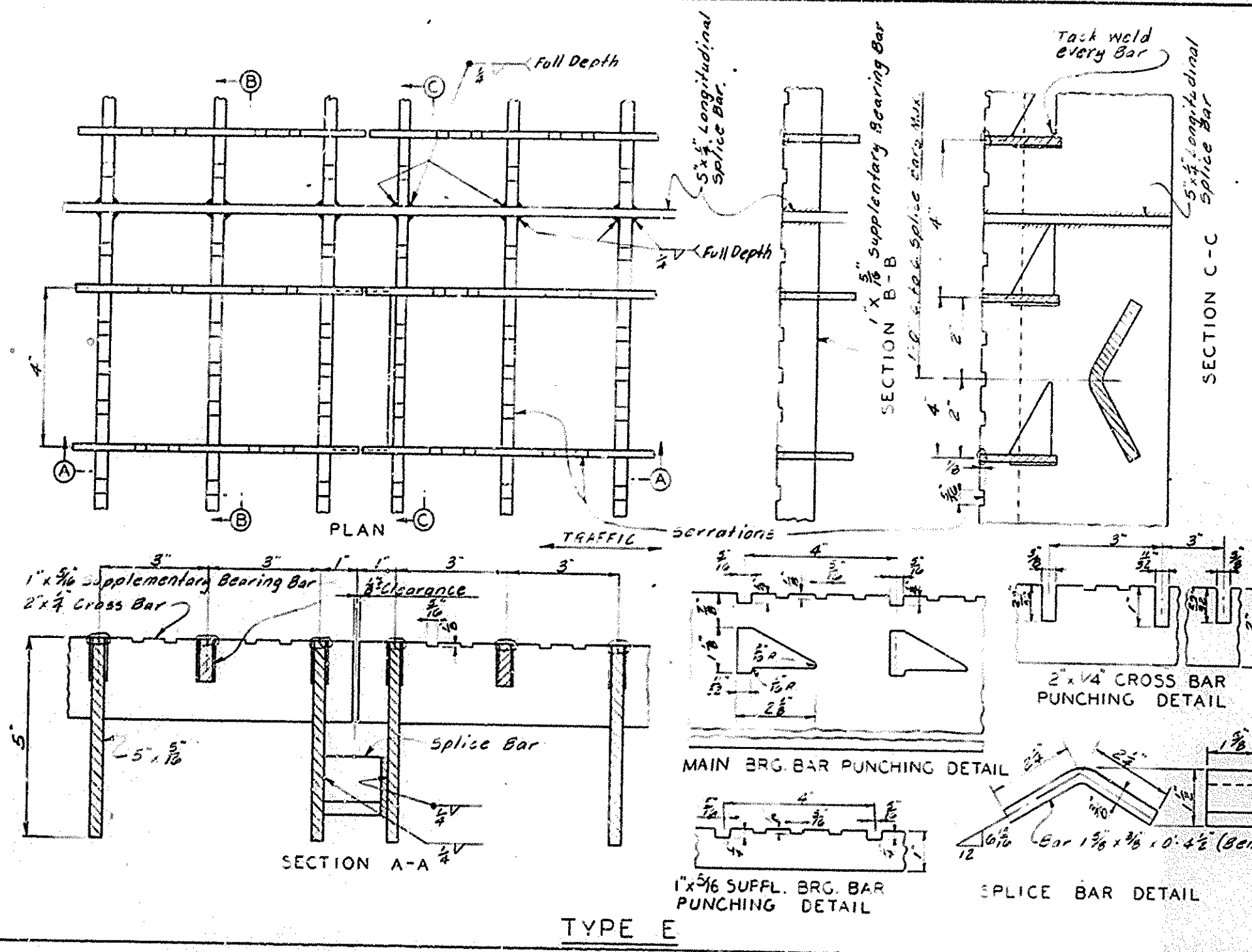
COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
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ROAD

STATION
BRIDGE
NUMBER MP 78-102-2

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DATE

LETTING DATE



5" OPEN GRID FLOORING BEARING BARS PERPENDICULAR TO TRAFFIC

Sheet 6
Repairs to Bridge over Rolling Fork

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
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(US68) LEBANON-CAMPBELLVILLE
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