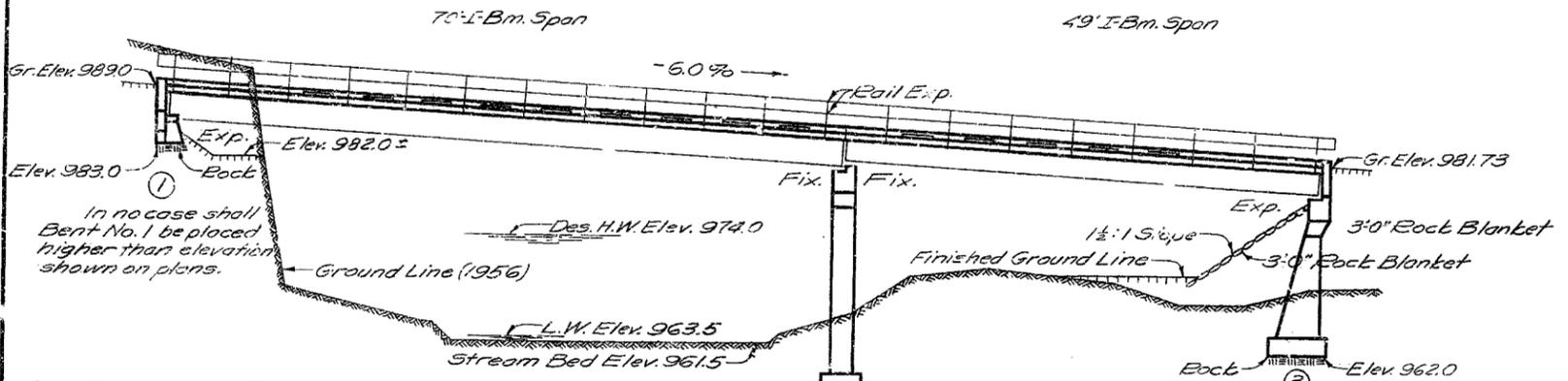


MISSOURI STATE HIGHWAY DEPARTMENT

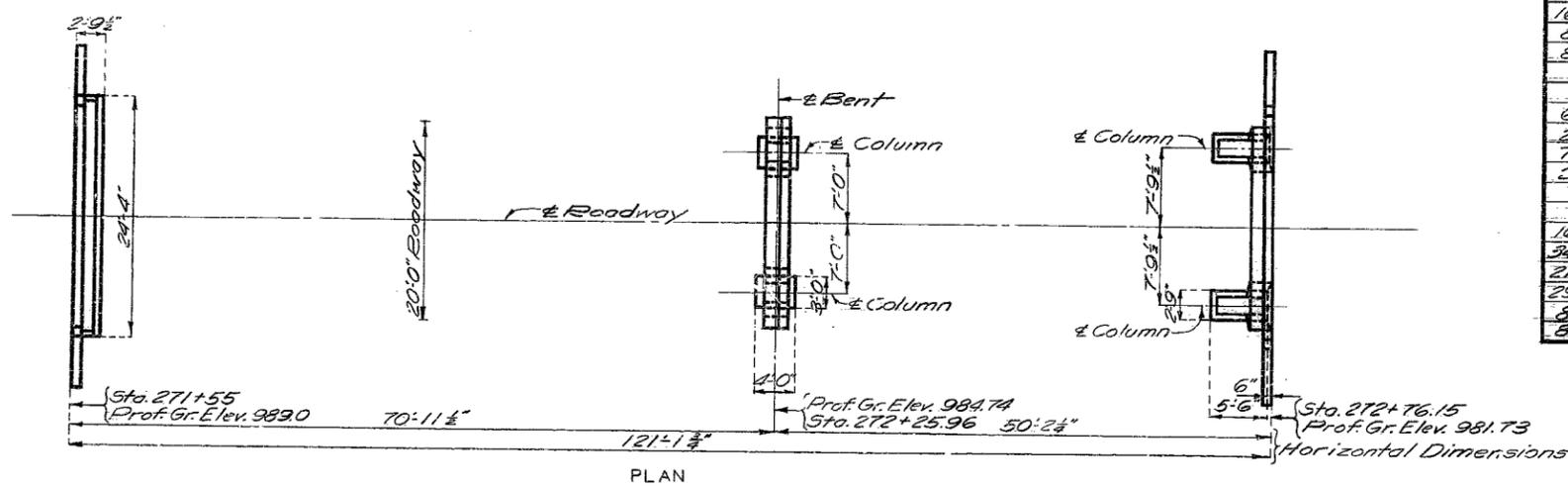
FED. ROAD DIST. NO.	ST. YE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	S-394(10)	19	28	



In no case shall Bent No. 1 be placed higher than elevation shown on plans.

Excavation of all materials under bridge shall be made to Elev. 982.0± and not less than 4'-0" outside of curb lines. Payment for this excavation outside the limits of excavation for substructure will be made at unit contract price for Roadway Excavation.

All loose, shelly or disintegrated rock shall be removed and the footings placed on hard, solid, undisturbed rock. If soft rock or shale is encountered, the footings shall be carried at least 18" into and cast against vertical faces of same.



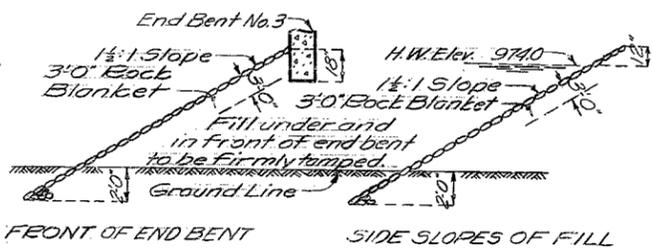
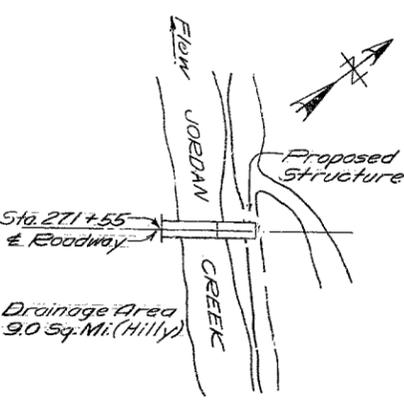
COMPLETE BILL OF REINFORCING STEEL			
No.	Mark	Length	Size Location
End Bent No. 1			
4	H1	7'-0"	#6 Wing
2	H2	6'-3"	#6 "
2	H3	24'-3"	#6 Bl Wall
4	H4	24'-3"	#4 "
2	H5	5'-3"	#6 Wing
7	H6	24'-0"	#6 Beam
End Bent No. 3			
12	#6	4'-0"	D2 Footing
6	#6	7'-0"	F3 Col. Hch
6	#6	7'-0"	F4 "
4	#6	22'-0"	H8 Beam
2	#6	20'-0"	H9 "
5	#7	20'-0"	H10 "
2	#6	22'-3"	H11 Bl Wall
8	#5	9'-0"	H12 Wing
3	#5	15'-9"	H13 "
2	#7	22'-3"	H14 Bl Wall
4	#6	11'-0"	T3 Wic 2
21	#4	11'-3"	U6 Beam
8	#4	3'-0"	U7 "
22	#5	#5	V5 Bl Wall
5	#7	8'-3"	V6 Wing
2	#4	5'-9"	V7 "
8	#6	14'-6"	V8 Column
6	#6	14'-9"	V9 "
22	#3	10'-3"	V10 "
4	#4	12'-6"	V11 "
Superstructure			
174	#5	2'-9"	C1 Curb
12	#6	36'-6"	C2 "
12	#6	26'-0"	C3 "
486	#7	22'-0"	S1 Slab
96	#4	24'-9"	S2 "
67	#4	25'-9"	S3 "

ESTIMATED QUANTITIES			
Item		Substr.	Superstr.
Class 1 Excavation for Structure	Cu. Yds.	90	90
Class 2 Excavation for Structure	Cu. Yds.	29	29
Class B Concrete	Cu. Yds.	35.7	59.2
Fabricated Structural Steel	Lbs.	66,800	66,800
Gray Iron Alloy Castings	Lbs.	1260	1260
Reinforcing Steel	Lbs.	4310	15,770

Excavation for bridge made above Elev. 964.5 will be paid for as Class 1 Excavation for Structures.

Excavation for bridge made below Elev. 964.5 will be paid for as Class 2 Excavation for Structures.

* Final pay weight for Fabricated Structural Steel will be based on using field rivets except for bolted connections specified for hand-rail.



Note: 3'-0" Rock Blanket shall be placed on fill at End Bent No. 3 as shown in sketches. See Road Plans for Quantities.

GENERAL NOTES:

Design Specifications: A.A.S.H.O.-1953
 Loading: H10-44
 Structural Steel Stress: 18,000 #/sq in.
 Reinforcing Steel Stress: 20,000 #/sq in.
 Concrete, Class B Stress 1,200 #/sq in.
 All concrete shall be Class B.
 Rivets: #5; holes 5/8" except in handrail, where rivets shall be #3; holes 1/2".
 Field connections shall be riveted except as noted in handrail details or, if the Contractor desires to eliminate all field riveting on this project, he may use machine bolts except for the 3/8" rivet head bolts specified for handrail. Heads and nuts of machine bolts shall be American Standard Regular.
 Paint: Shop, none; Field, contact surfaces of bolted field connections, one coat of red lead and surfaces inaccessible after erection three coats of red lead. No other paint to be applied by Contractor. Red lead required shall be furnished by Contractor. Payment for cleaning and painting such surfaces will be included in unit price bid for Fabricated Structural Steel.
 Where joint filler is specified on the plans it shall conform with the requirements for Premoulded Material for Filler as given in Section 59-22D of the Standard Specifications.
 Permits must be obtained for all truck loads over legal length. Items of material which cannot be transported by truck with overall length less than 75'-0" must be shipped by rail to the specified shipping point.

BRIDGE OVER JORDAN CREEK

STATE ROAD FROM RTE. 39 EAST TO R.I.E.S.M. NEAR EVERTON
 ABOUT 2.3 MILES W. OF EVERTON
 PROJECT NO. S-394(10) (SK) STA. 271+55

DADE COUNTY

SUBMITTED BY *J.A. Williams* DATE 1-17-1957
 APPROVED BY *Ray M. Whitton* DATE 1-17-1957

STDC-11054
 N-280

28

Drawn Jan. 1957 by W.E.S.
 Checked Jan. 1957 by C.S.A.

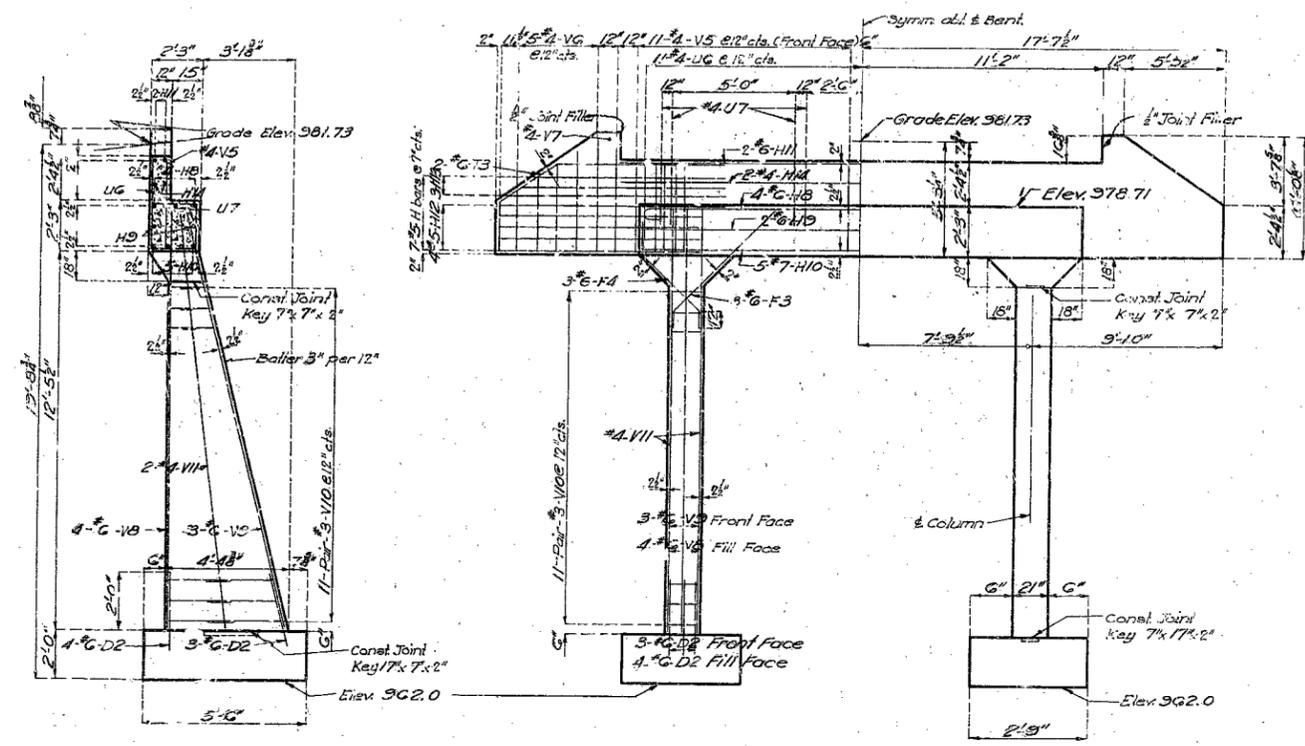
Note: This drawing is not to scale. Follow dimensions.

Sheet No. 1 of 5

SEE FINAL PLANS BROWN-LINES

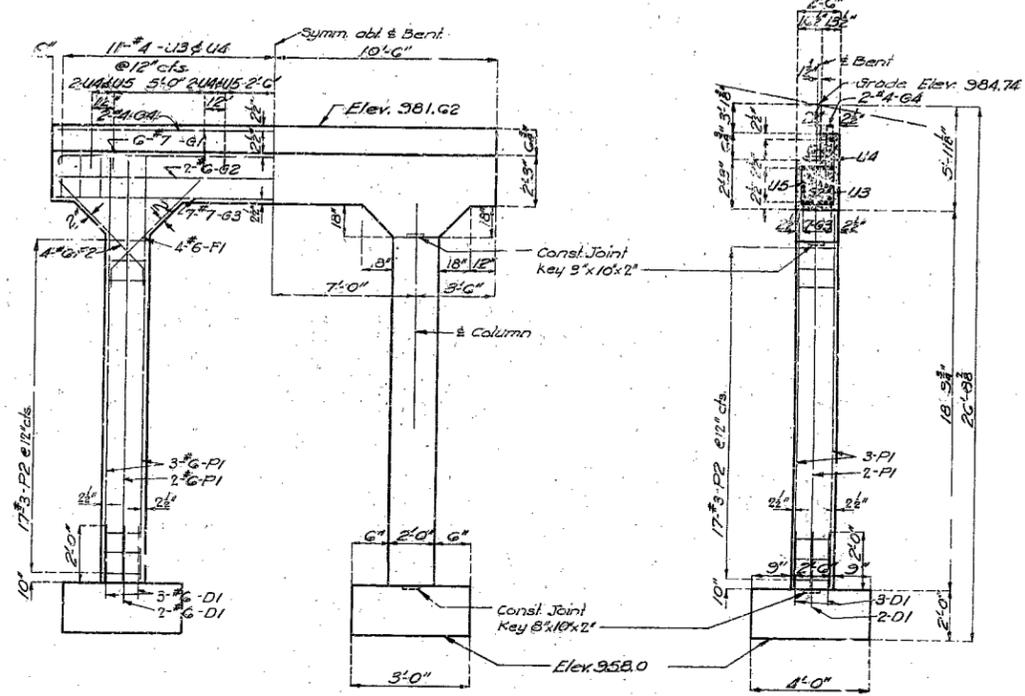
MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE MO.	FED. AID PROJ. NO. (S-394(10) (CSK))	FISCAL YEAR 19	SHEET NO. 30	TOTAL SHEETS



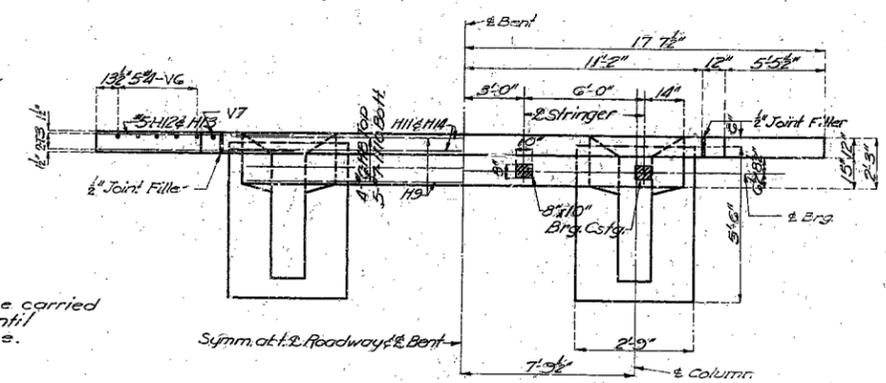
SECTION AT E

ELEVATION



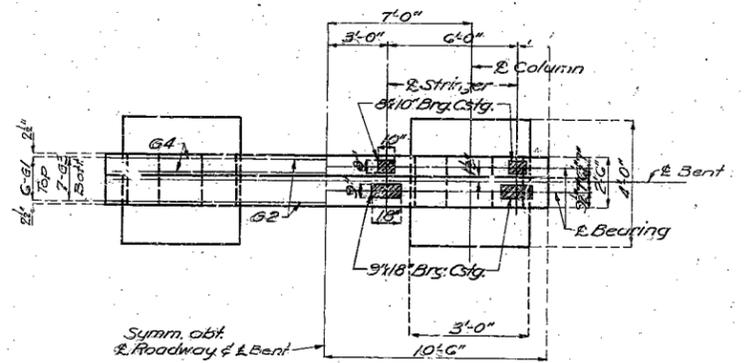
ELEVATION

SECTION AT E



PLAN

DETAILS OF INT. BENT NO. 3



PLAN

DETAILS OF INT. BENT NO. 2

BRIDGE OVER JORDAN CREEK

STATE ROAD FROM ROUTE 39 EAST TO RTE. 50 NEAR EVERTON
ABOUT 2.3 MILES W. OF EVERTON
PROJECT NO. S-394(10) (CSK) STA. 271+55
DADE COUNTY

Assembled Dec. 1956 by H.M.M. & J.H.K.
Checked Jan. 1957 by C.S.A.

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 3 of 5

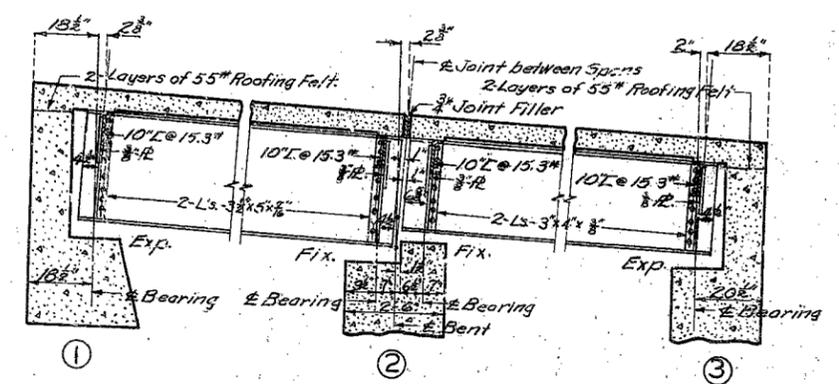
SEE FINAL PLANS BROWN LINES

2 Col. End & 2 Col. Int. } 20' or 22' Roadway
Square & Skewed } 4/10

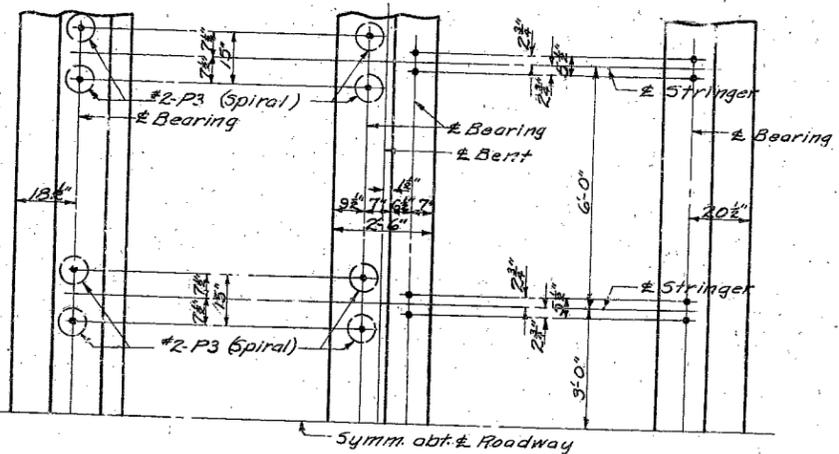
N-280

MISSOURI STATE HIGHWAY DEPARTMENT

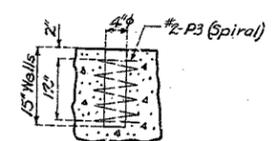
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO	5-394 (10) (S.K.)	15	31	



PART LONGITUDINAL SECTION



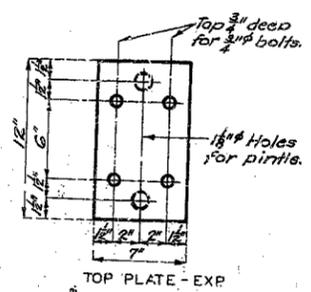
PART ANCHOR BOLT PLAN



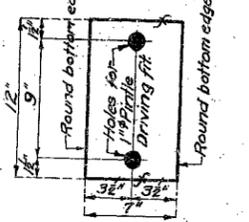
PART SECTION SHOWING ANCHOR BOLT WELL

Note: Grout for anchor bolt wells shall contain Iron Oxide (Embeco or approved equivalent).

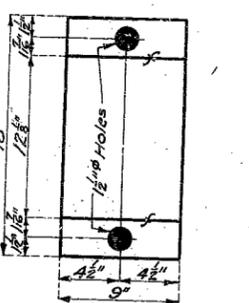
Note: Holes for all 1/2" anchor bolts shall be formed in Substructure by placing and setting with template 4" Wells of depth shown.



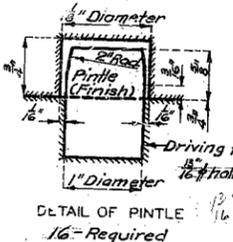
TOP PLATE - EXP



FLOATER PLATE - EXP



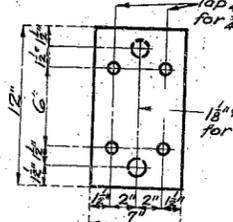
BOTTOM PLATE - EXP



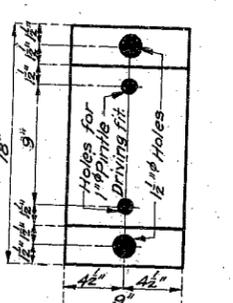
DETAIL OF PINTLE 1/2" Required



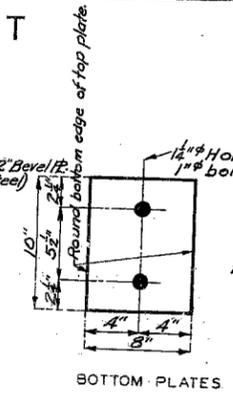
PLATE "A" 8-Required



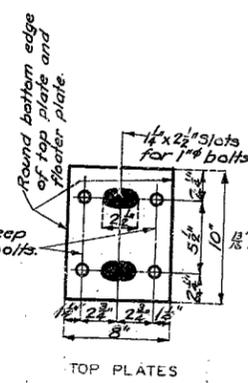
TOP PLATE - FIX



BOTTOM PLATE - FIX



BOTTOM PLATES



TOP PLATES

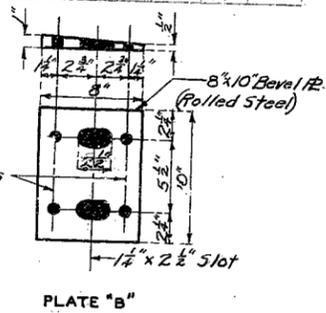
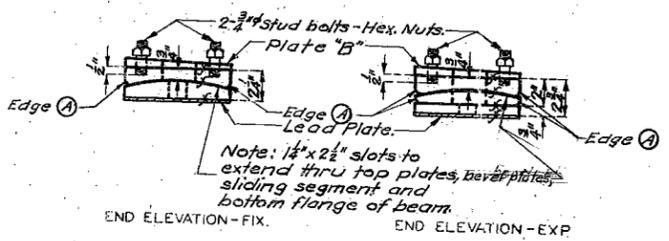


PLATE "B" 8-Required



Required: 4 Sets 8"x10" Each set consists of 5 plates each.

TYPE "C"

GENERAL NOTES:
Finish all surfaces marked X.

Material for Type "B" and Type "C" castings shall be either gray iron alloy or cast steel but payment will be made as Gray Iron Alloy.

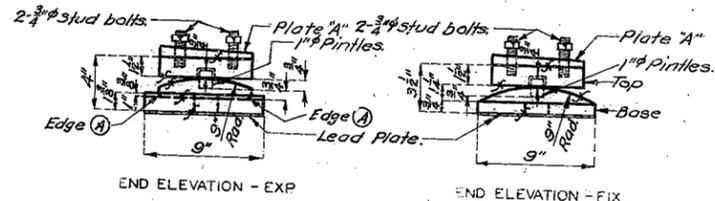
Anchor bolts for Type "B" castings shall be 1/2" swaged bolts with Hex nuts and shall extend 12" into concrete.

Anchor bolts for Type "C" castings shall be 1" swaged bolts, no heads or nuts and shall extend 10" into concrete. Top ends of anchor bolts shall be above the top of castings but not higher than 1/4" below the top surface of the bottom flange of beam.

Lead Plates under bearings shall be approximately 1/2" thickness and weigh 8# per sq. Ft. Cost of lead plates shall be included in price bid for other items.

Edge A to be rounded (1/8" Radius). Bevel plates A and B may be made part of top casting if desired but payment will be made as Fabricated Structural Steel.

All anchor bolts, stud bolts and pintles will be paid for as Structural Steel.



END ELEVATION - EXP

END ELEVATION - FIX

TYPE "B"

Required: 4 Sets 9"x18" Each set consists of 5 plates each.

DETAILS OF BEARING CASTINGS

Note: This drawing is not to scale. Follow dimensions.

BRIDGE OVER JORDAN CREEK

STATE ROAD FROM RTE. 39 EAST TO RTE. 30 NEAR EVERTON ABOUT 2.3 MILES WEST OF EVERTON PROJECT NO. 5-394 (10) (S.K.) STA. 271+55

DADE COUNTY

Assembled Dec. 1956 by W.E.S. & K.R.S. Checked Jan. 1957 by C.S.A.

Sheet No. 4 of 5.

NO CONSTRUCTION CHANGES

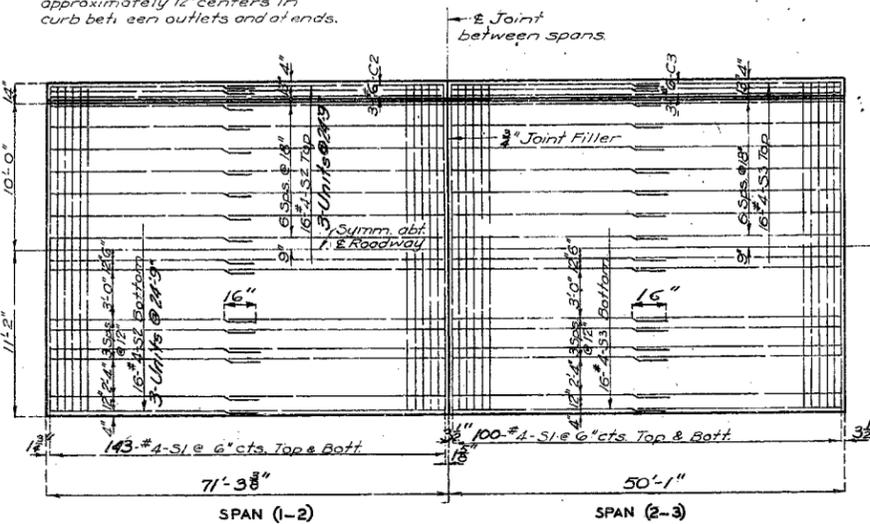
N-280

FINISHED

MISSOURI STATE HIGHWAY DEPARTMENT

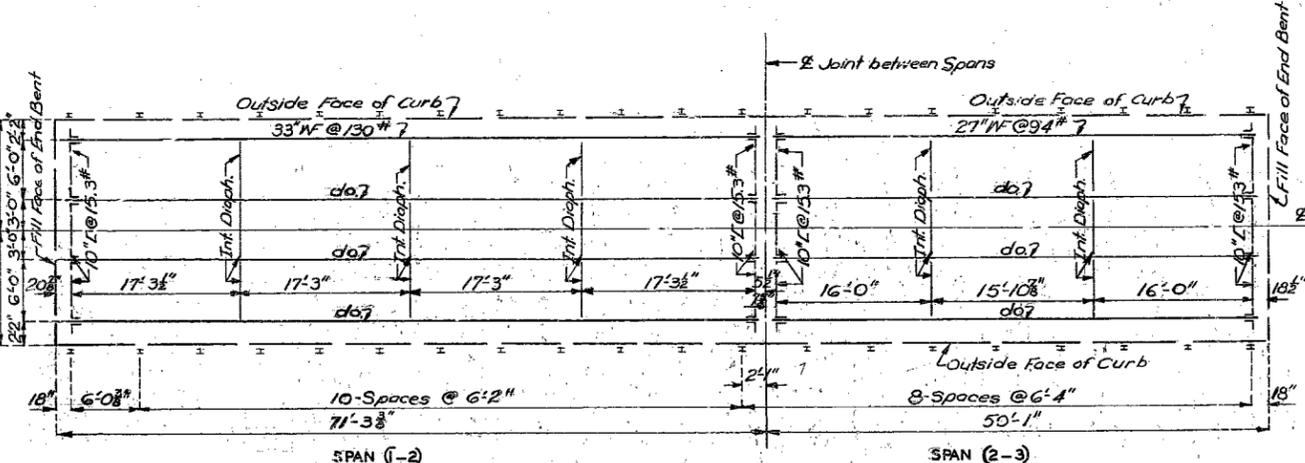
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	MO.	S-394 (10)	1955	32	55

Note: Space down bars C1 of approximately 12" centers in curb between outlets and at ends.



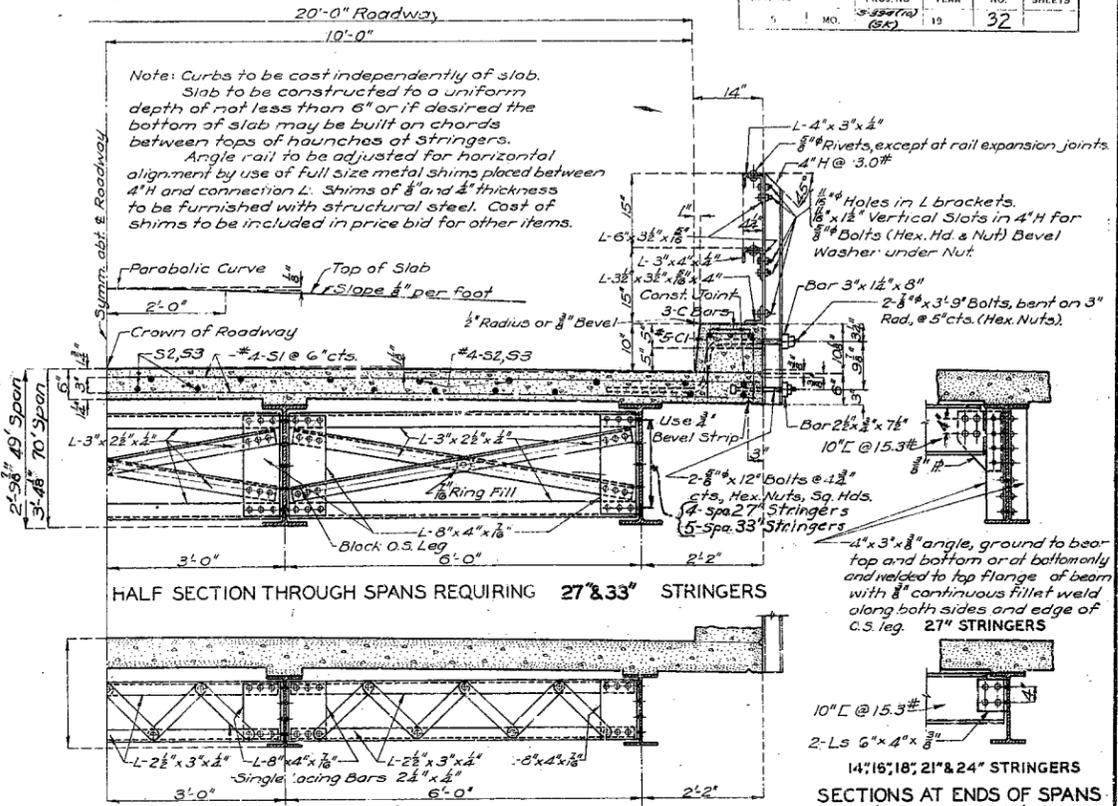
Note: Dimensions parallel to grade at \pm Roadway

Note: 4x3 1/2" Stiffener L for 49' Span.
5x3 1/2" " " " " 70' Span.

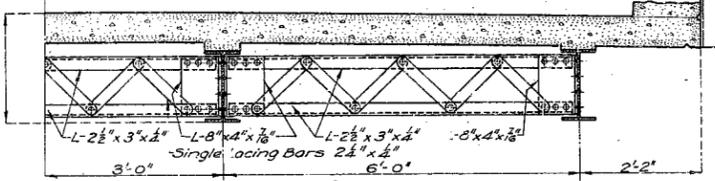


PLAN OF STRUCTURAL STEEL

Note: Dimensions are parallel to grade at \pm Roadway

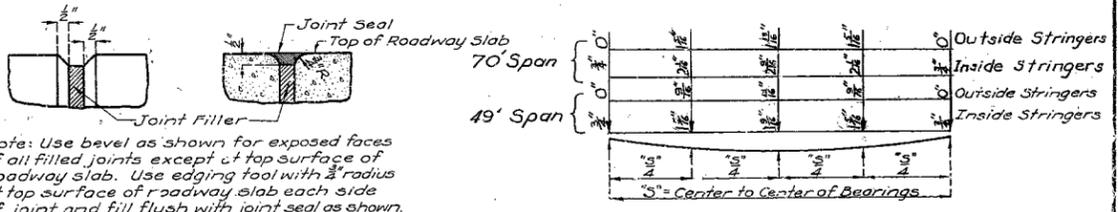


HALF SECTION THROUGH SPANS REQUIRING 27" & 33" STRINGERS

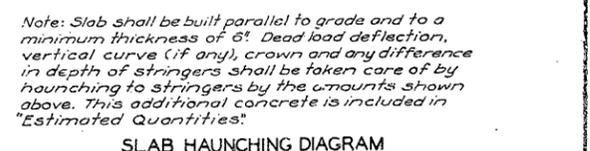


SECTIONS AT ENDS OF SPANS

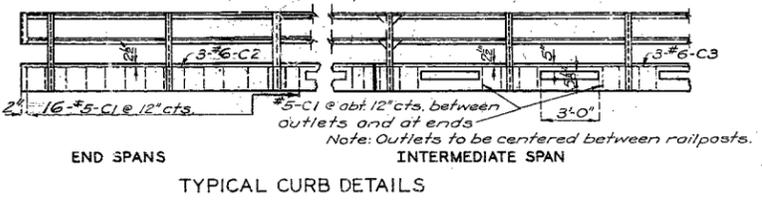
HALF SECTION THROUGH SPANS REQUIRING 14", 16" & 18" STRINGERS



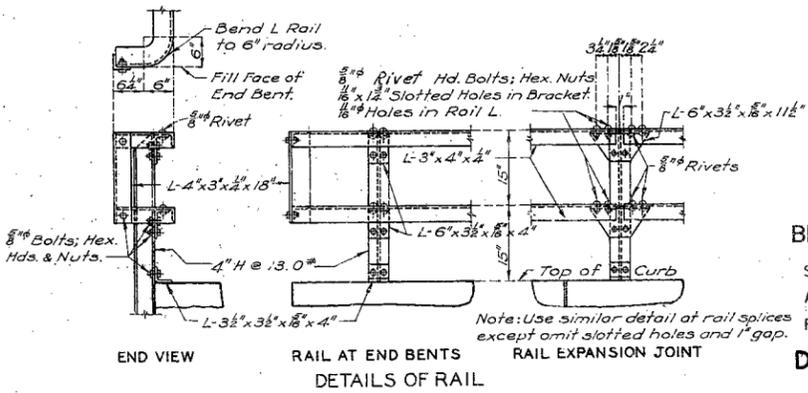
Note: Use bevel as shown for exposed faces of all filled joints except at top surface of roadway slab. Use edging tool with 3/4" radius at top surface of roadway slab each side of joint and fill flush with joint seal as shown.



SLAB HAUNCHING DIAGRAM



TYPICAL CURB DETAILS



DETAILS OF RAIL

BRIDGE OVER JORDAN CREEK

STATE ROAD FROM ROUTE 39 EAST TO RTE. SM NEAR EVERTON
ABOUT 2.3 MILES WEST OF EVERTON
PROJECT NO. S-394 (10) (SK) STA 271+55

DADE COUNTY

SHEET NO. 5 OF 5
N-280

Assembled Dec. 1956 by S.M.S. & B.E.G.
Checked Jan. 1957 by C.S.A.

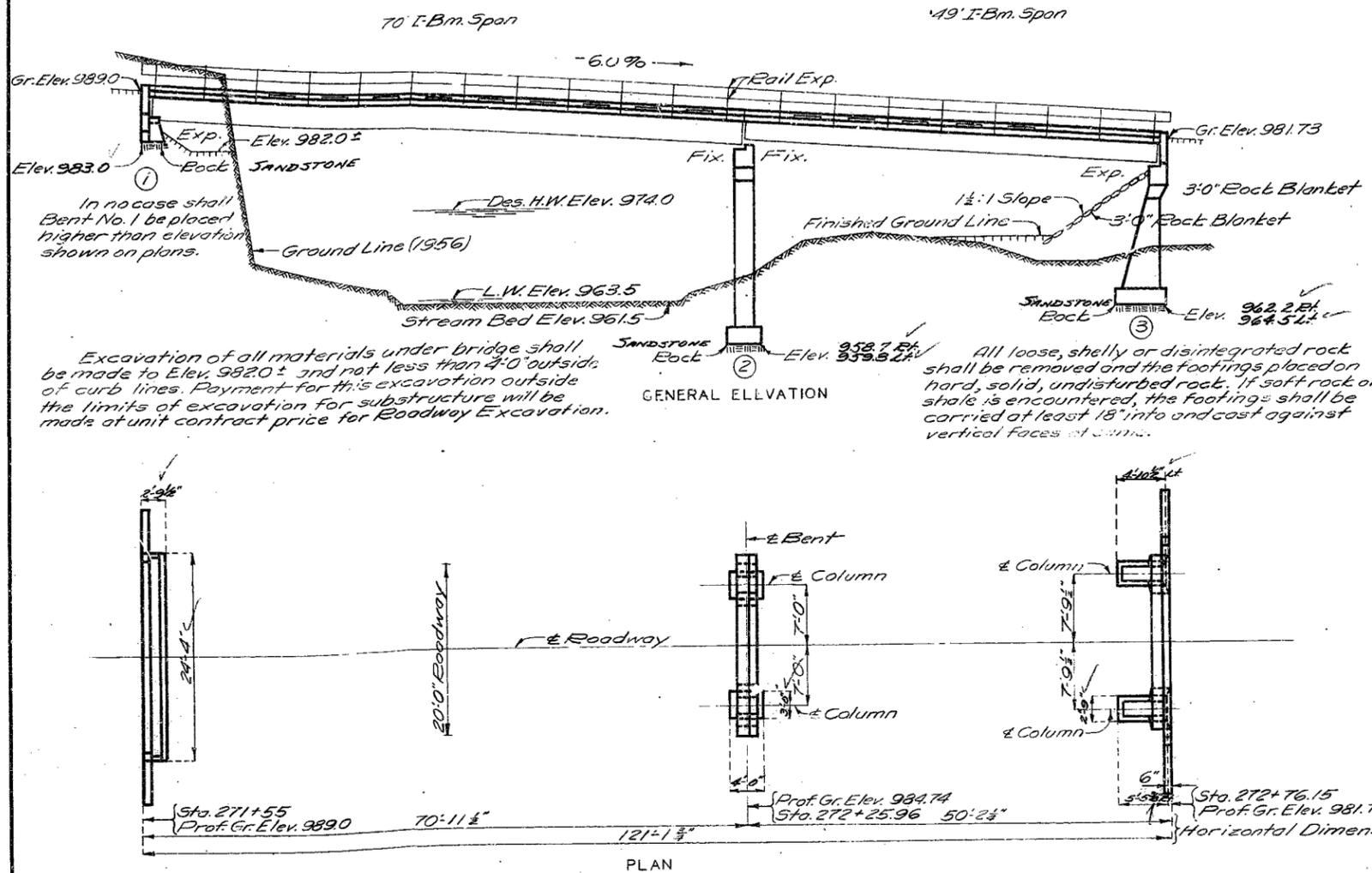
Note: This drawing is not to scale. Follow dimensions.

NO CONSTRUCTION CHANGES

Sq. 20-H10
Rev. Feb. 1955

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	S-394(10) (SK)	19	26	



COMPLETE BILL OF REINFORCING STEEL				FINAL PLANS							
No.	Mark	Length	Size	Location	Bending Sketches & Cutting Diagrams	No.	Size	Length	Mark	Location	
End Bent No. 1						End Bent No. 3					
4	H1	7'-0"	#6	Wing		14	#6	4'-0"	D2	Footing	
2	H2	6'-3"	#6	"		6	#6	7'-0"	F3	Col. Hch.	
2	H3	24'-3"	#6	Bl. Wall		6	#6	7'-0"	F4	"	
4	H4	24'-3"	#4	"		4	#6	22'-0"	H8	Beam	
2	H5	5'-3"	#6	Wing		2	#6	20'-0"	H9	"	
7	H6	24'-0"	#6	Beam		5	#7	20'-0"	H10	"	
25	U1	5'-6"	#4	Beam		2	#6	22'-3"	H11	Bl. Wall	
8	U2	3'-0"	#4	"		8	#5	9'-0"	H12	Wing	
44	V1	5'-0"	#4	Bl. Wall		3	#5	15'-9"	H13	"	
5	V2	8'-6"	#4	Wing		2	#4	22'-3"	H14	Bl. Wall	
2	V3	6'-3"	#4	"							
6	V4	2'-6"	#4	Beam							
Int. Bent No. 2											
16	D1	4'-0"	#6	Column							
8	F1	7'-6"	#6	Col. Hch.							
8	F2	7'-9"	#6	"							
6	G1	22'-9"	#7	Beam							
2	G2	20'-9"	#6	"							
7	G3	20'-9"	#7	"							
2	G4	20'-9"	#4	Br. Hch.							
16	P1	20'-9"	#6	Column							
34	P2	8'-9"	#3	"							
21	U3	9'-9"	#4	Beam							
29	U4	2'-6"	#4	Br. Hch.							
8	U5	3'-9"	#4	Beam							
8	P3	10'-9"	#2	Rein. Hch.							
Superstructure											
174	#5	2'-9"	C1	Curb							
12	#6	36'-6"	C2	"							
12	#6	26'-0"	C3	"							
486	#4	22'-0"	S1	Slab							
96	#4	24'-9"	S2	"							
67	#4	25'-9"	S3	"							

FINAL QUANTITIES			
Item	Subst.	Superstr.	Total
Class 1 Excavation for Structure	Cu. Yds.	90.5	90.5
Class 2 Excavation for Structure	Cu. Yds.	20.5	20.5
Class "B" Concrete	Cu. Yds.	31.4	59.2
Fabricated Structural Steel	Lbs.	66680	66680
Gray Iron Alloy Castings	Lbs.	1260	1260
Reinforcing Steel	Lbs.	4310	15770
Test Holes	Lin. Ft.	26	26

GENERAL NOTES:

Design Specifications: A.A.S.H.O.-1953
 Loading: H10-44
 Structural Steel Stress: 18,000 #/sq. in.
 Reinforcing Steel Stress: 20,000 #/sq. in.
 Concrete, Class "B" Stress: 1,200 #/sq. in.
 All concrete shall be Class "B".
 Rivets 3/4"; holes 1/2" except in handrail, where rivets shall be 5/8"; holes 1/2".
 Field connections shall be riveted except as noted in handrail details or, if the Contractor desires to eliminate all field riveting on this project, he may use machine bolts except for the 3/4" rivet head bolts specified for handrail. Heads and nuts of machine bolts shall be American Standard Regular.
 Paint: Shop, none; Field, contact surfaces of bolted field connections, one coat of red lead and surfaces inaccessible after erection three coats of red lead. No other paint to be applied by Contractor. Red lead required shall be furnished by Contractor. Payment for cleaning and painting such surfaces will be included in unit price bid for Fabricated Structural Steel.
 Where joint filler is specified on the plans it shall conform with the requirements for Pre-moulded Material for Filler as given in Section 59-22D of the Standard Specifications.
 Permits must be obtained for all truck loads over legal length. Items of material which cannot be transported by truck with overall length less than 75'-0" must be shipped by rail to the specified shipping point.

Excavation for bridge made above Elev. 964.5 will be paid for as Class 1 Excavation for Structures.
 Excavation for bridge made below Elev. 964.5 will be paid for as Class 2 Excavation for Structures.
 * Final pay weight for Fabricated Structural Steel will be based on using field rivets except for bolted connections specified for handrail.

~~At Sta. 271+55, 2' x 2' pits in road to be dug out to 15' depth. B.M. Elev. 982.47 X in Ch. Lt. S&E, N.E. End of Bridge Sta. 272+76~~

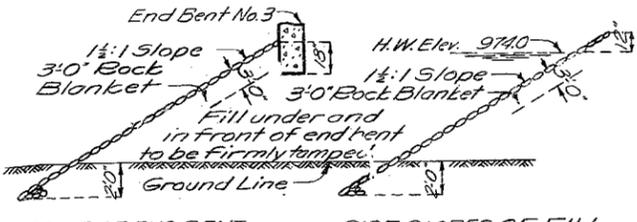
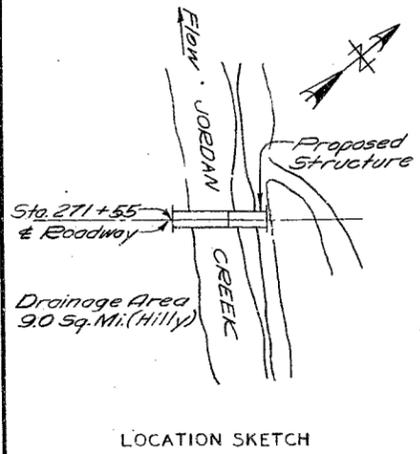
BRIDGE OVER JORDAN CREEK

STATE ROAD FROM RTE. 39 EAST TO RTE. SM NEAR EVERTON
 ABOUT 2.3 MILES W. OF EVERTON
 PROJECT NO. S-394(10) (SK) STA. 271+55
 DADE COUNTY

SUBMITTED BY: J. A. Williams, DATE 1-17-1957
 APPROVED BY: Roy M. Whitton, DATE 1-17-1957
BRIDGE ENGINEER CIVIL ENGINEER

STD-C-10R4
 N-280

FINAL PLANS



Drawn Jan. 1957 by W.E.S.
 Checked Jan. 1957 by C.S.A.

Note: This drawing is not to scale. Follow dimensions.

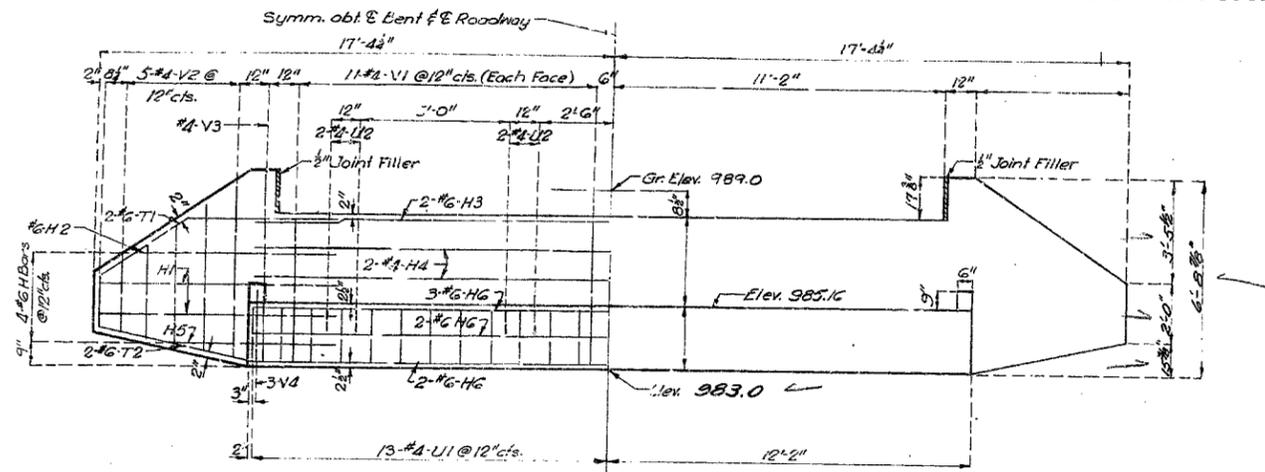
Sheet No. 1A of 3.

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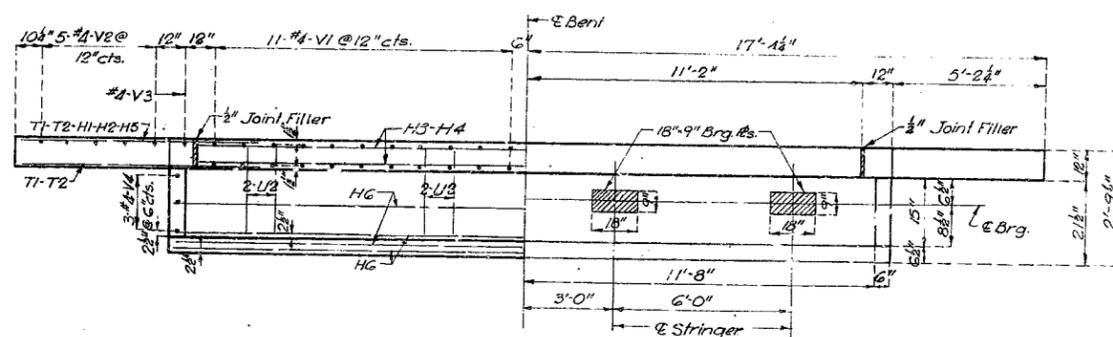
MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	S-394(10)	19	29	

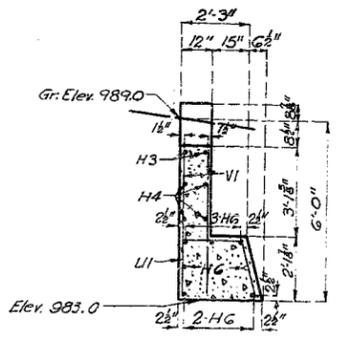
FINAL PLANS



ELEVATION



PLAN



SECTION AT C

Note: Fill at End Bent No. 1 shall not be carried above bottom of beam and wings until superstructure Span (1-2) is in place.

DETAILS OF END BENT NO. 1

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BRIDGE OVER JORDAN CREEK
 STATE ROAD FROM RTE. 39 EAST TO RTE. 58 NEAR EVERTON
 ABOUT 2.3 MILES W. OF EVERTON
 PROJECT NO. S-394 (10) (SK) STA. 271+55
 DADE COUNTY

Drawn Dec. 1956 by S.W.S.
 Checked Jan. 1957 by C.S.A.

Note: This drawing is not to scale. Follow dimensions

Sheet No. 2A of 3.

FINISHED

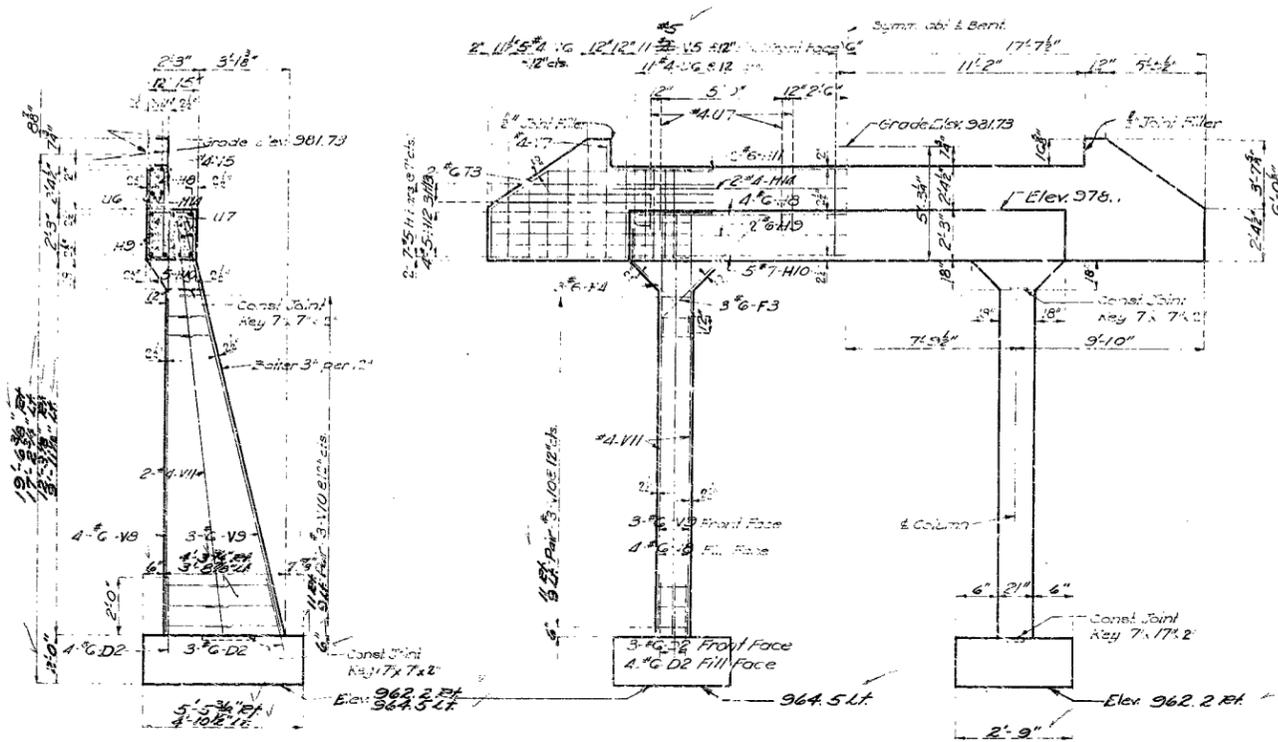
N-280

FINAL PLANS

MISSOURI STATE HIGHWAY DEPARTMENT

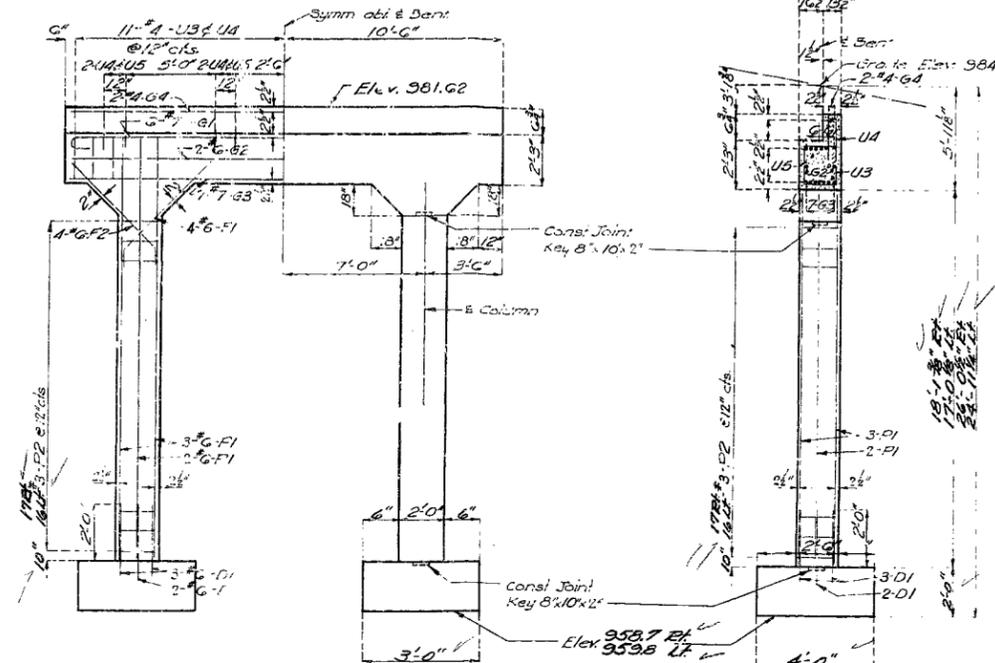
FED. ROAD DIST. NO.	ST. TC.	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO	5-394(10) (SK)	19	30	

FINAL PLANS



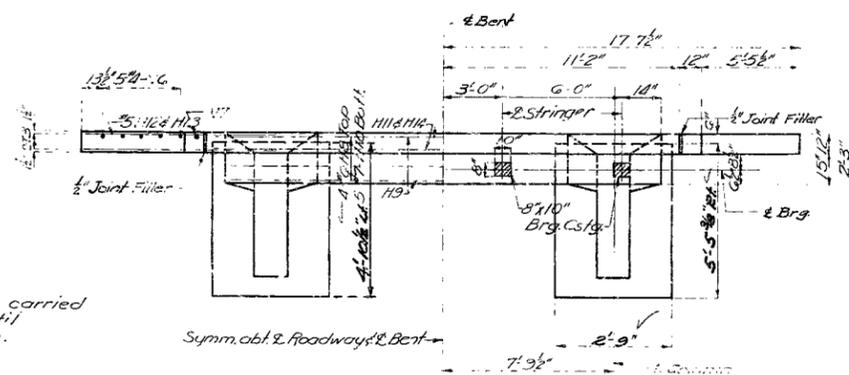
SECTION AT E

ELEVATION



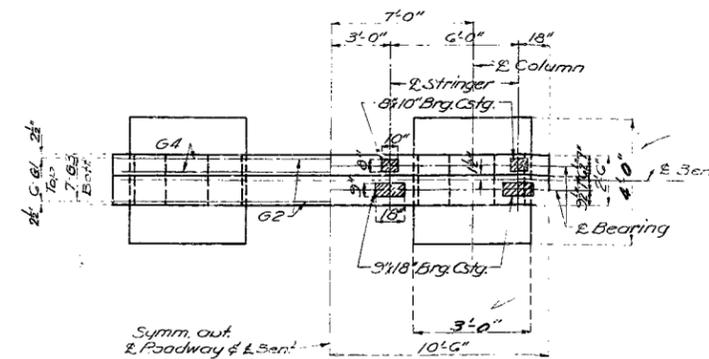
ELEVATION

SECTION AT G



PLAN

DETAILS OF END BENT NO. 3



PLAN

DETAILS OF INT. BENT NO. 2

BRIDGE OVER JORDAN CREEK

STATE ROAD FROM ROUTE 39 EAST TO RTE. SM NEAR EVERTON
ABOUT 2.3 MILES W. OF EVERTON

PROJECT NO. S-394 (10) (SK) STA. 271+55

DADE COUNTY

1954

N-28C

FINAL PLANS

Scale: 1/4" = 1'-0" (Horizontal)
3/8" = 1'-0" (Vertical)

Assembled Dec. 1950 by H.M.M. & J.H.K.
Checked Jan. 1957 by C.S.A.

Note: This drawing is not to scale in all dimensions.

Spec. No. 3A of 3.

89

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

STATE	PRGJ. NO.	SHEET NO.
MO.	J750567	5
SEC/SUR 13	TWP 30N	RGE 26W

GENERAL NOTES:

Design Specifications:

A.A.S.H.T.O. 199.

Design Loading:

1993 Missouri Posting Loads. (H20 & 3S2)
No Future Wearing Surface

Design Unit Stresses:

Structural Carbon Steel Fy= 36,000 psi. (New Steel)
Exist. Steel Fy= 33,000 psi
Working Stress Design = 68% of Fy (Ex st.)

Paint:

Calcium Sulfonate (2 coats)(See Special Provisions).

Old and New Work:

Outline of old work is indicated by light dashed lines.
Heavy lines indicate new work.

Dimensions:

Longitudinal dimensions are based on the original design plans.

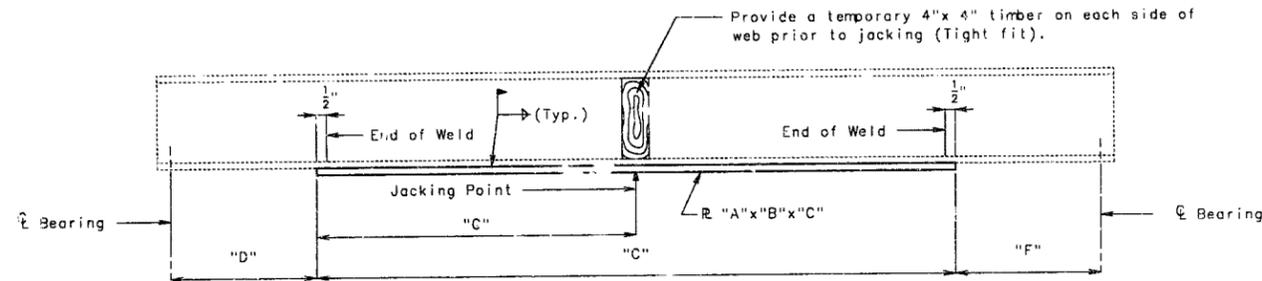
Traffic:

Maintain one lane of traffic during construction. (See Roadway Traffic Control Plans).

Stringer Support:

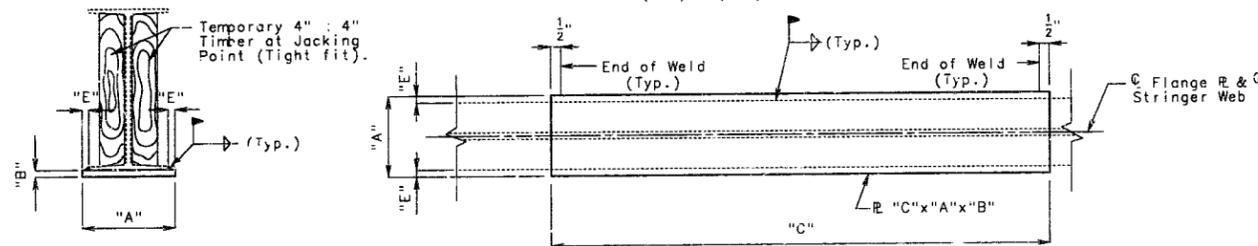
All existing stringers in the span being strengthened shall be raised simultaneously * at jacking point and supported during welding of new steel plates.

The temporary supports must be capable of safely supporting a service load of approximately ** tons per stringer.
(Factor of safety not included) (See Special Provisions).



TYPICAL ELEVATION OF STRINGER

SPAN (1-2) & (2-3)



SECTION THRU STRINGER

DETAIL OF FLANGE R

TABLE OF DIMENSIONS

Stringer Location		Dimensions									
		"A"	"B"	"C"	"D"	"E"	"F"	"G"	*	**	
Span (1-2)	EXT.	14"	1 3/8"	30'-0"	19'-7"	1 1/2"	19'-7"	15'-0"	1 3/8"	39	
Span (1-2)	INT.	14"	1 3/8"	1'-0"	19'-7"	1 1/2"	19'-7"	15'-0"	1 3/8"	41	
Span (2-3)	EXT.	12"	1 3/8"	23'-9"	11'-11 1/2"	1"	11'-11 1/2"	11'-10 1/2"	5/8"	31	
Span (2-3)	INT.	NO STRENGTHENING REQUIRED								5/8"	32

ESTIMATED QUANTITIES		
Item	Lump Sum	Total
Strengthening Existing Stringers		1

REPAIRS TO BRIDGE OVER JORDAN CREEK

STATE RD. D FROM PENNSBORO TO EVERTON

ABOUT 2.3 MILES W. OF EVERTON

PROJECT NO. J750567 STA. 271 + 55

JOB NO. J750567 RTE. K

DADE

COUNTY

N02801

WID 5, FLA, 1, A
 FLANGE BRACE
 AUG. 1993
 REVISED
 NOV. 1993

DESIGNED: DEC. 1993
 DETAILED: JAN. 1994
 CHECKED: MAR. 1994

NOTE: THIS DRAWING IS NOT TO SCALE. FOLLOW DIMENSIONS.

SHEET NO. 1 OF 1

DATE 4/20/94

307 1288