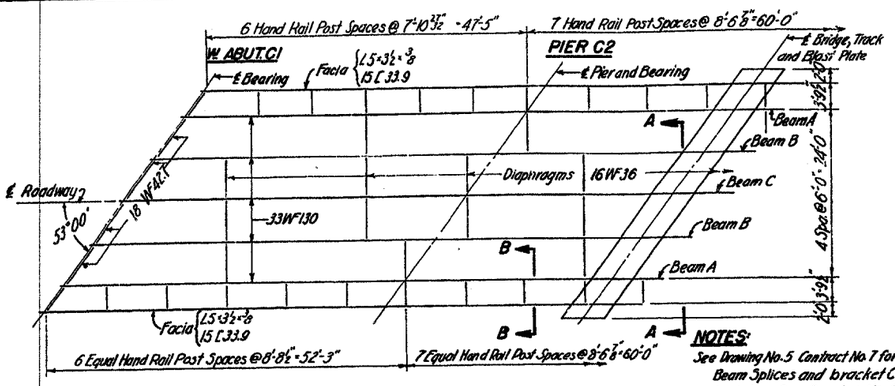
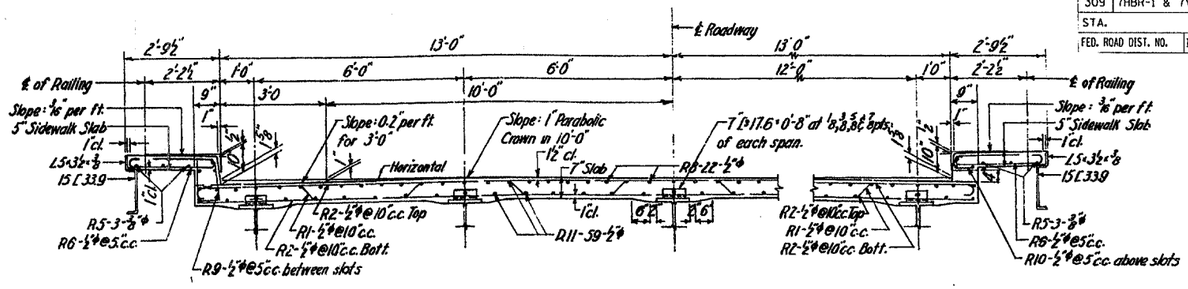
CONTRACT NO. 84883

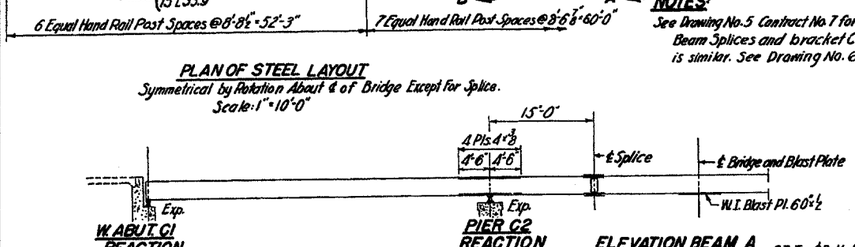
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	7HBR-1 & 7VBR	WHITESIDE	146	90
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



NOTES:
See Drawing No. 5 Contract No. 7 for Sections A-A & B-B Beam Splices and bracket Connections. Expansion Dam is similar. See Drawing No. 6 for Railing & Bearing Details.



CROSS SECTION OF ROADWAY
Scale: ½" = 1'-0"



PLAN OF STEEL LAYOUT
Symmetrical by Rotation About ℄ of Bridge Except for Splice.
Scale: 1" = 10'-0"

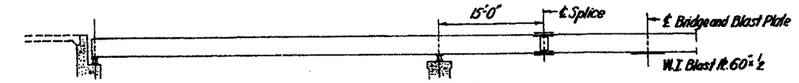
	W. ABUT. C1 REACTION	PIER C2 REACTION
DL	20	65
LL	23	28
I	7	8
SW	4	11
TOTAL	54	112

ELEVATION BEAM A

	0.4L MOMENT	MOMENT	0.5L MOMENT
DL	189	322	154
LL	210	166	207
I	60	46	56
SW	41	56	41
TOTAL	500	590	458

Use 33 WF 130 S.M. Furnished = 335
With 4 Pls. 4 x ⅜ S.M. Furnished = 400

R1-Top ℄ Bott: 1 ea. ½"

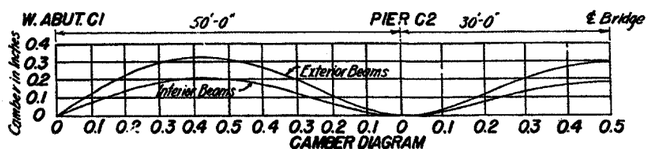


	W. ABUT. C1 REACTION	PIER C2 REACTION
DL	13	41
LL	33	40
I	9	11
TOTAL	55	92

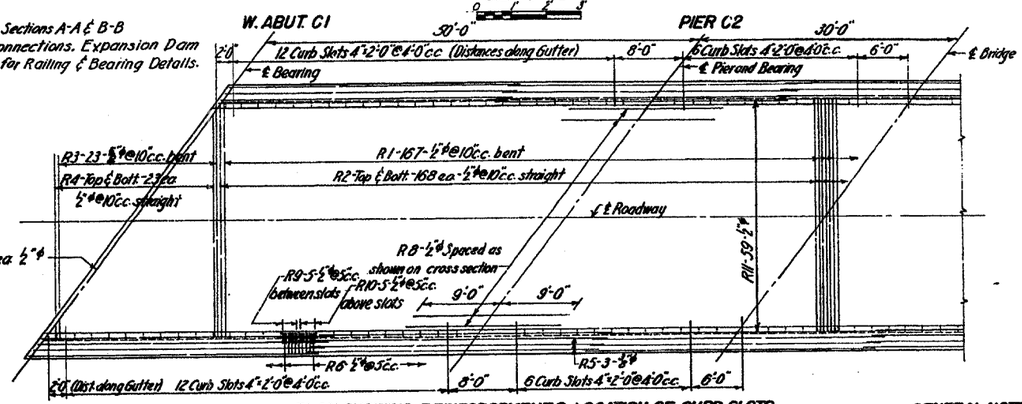
ELEVATION BEAMS B & C

	0.4L MOMENT	MOMENT	0.5L MOMENT
DL	120	204	97
LL	302	239	298
I	86	66	81
TOTAL	508	509	476

Use 33 WF 130 S.M. Furnished = 404

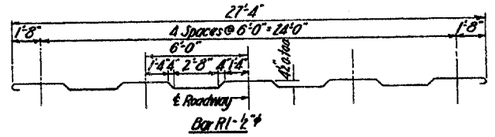


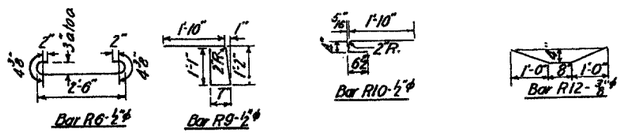
CAMBER DIAGRAM
Symmetrical About ℄ of Bridge



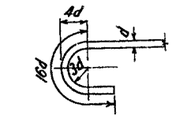
PLAN SHOWING REINFORCEMENT & LOCATION OF CURB SLOTS
Symmetrical by Rotation About ℄ Bridge
Scale: ⅛" = 1'-0"

BAR SCHEDULE - ROADWAY SLAB			
Mark	No.	Stock	Bend
R1	167	½"ϕ x 29'-8"	Bent - See Detail
R2	336	½"ϕ x 27'-4"	Straight
R3	46	⅝"ϕ x 15'-6½" av.	Bent - See Detail
R4	92	½"ϕ x 14'-1" av.	Straight - See Detail
R5	30	⅜"ϕ x 33'-10"	Straight
R6	780	½"ϕ x 3'-0½"	Bent - See Detail
R7	4	½"ϕ x 34'-0"	Straight
R8	44	½"ϕ x 18'-0"	Straight
R9	434	½"ϕ x 4'-8"	Bent - See Detail
R10	360	½"ϕ x 2'-8½"	Bent - See Detail
R11	295	½"ϕ x 33'-10"	Straight
R12	60	⅜"ϕ x 2'-8"	Bent - See Detail





BAR DETAILS



STANDARD HOOK DETAIL

GENERAL NOTES:
Live Load: H20-S16 applied in accordance with the 1949 A.A.S.H.O. Specifications.
Unit Stresses: In accordance with the 1949 A.A.S.H.O. Specifications, except as noted below.
Rivet Values: Shear 12,000 lbs. per sq. inch.
Bearing 24,000 lbs. per sq. inch.
Material: All material is medium carbon steel A.S.T.M. Designation A7-50T.
Camber: Beams shall be cambered for dead load in accordance with camber diagram.
Reactions are given in kips.
Moments are given in kip-feet.
Diaphragms and expansion dams are normal to grade.
Rivets are ⅞" ϕ except as noted.
Concrete in roadway shall be Class A.
All reinforcing bars shall be of deformed type A.S.T.M. A305-50T. Lapped 40 diameters at Splices.
1½" top coverage over roadway steel includes ½" integral wearing surface.
Blast plate is Wrought Iron

APPROVED:
F. M. Masters
FOR MODJESKI & MASTERS

MISSISSIPPI RIVER BRIDGE
AT CLINTON, IOWA
CITY OF CLINTON BRIDGE COMMISSION
SUPERSTRUCTURE
C.& N.W. R.R. OVERPASS
SCALES AS NOTED
CONTRACT NO. 7 DRAWING NO. 10
MODJESKI & MASTERS ENGINEERS
OCTOBER, 1951

THIS DRWG. REVISED JAN 1957 TO SHOW THE WORK AS CONSTRUCTED
DR. S. FEC. TR. ARC. CK. TAK.