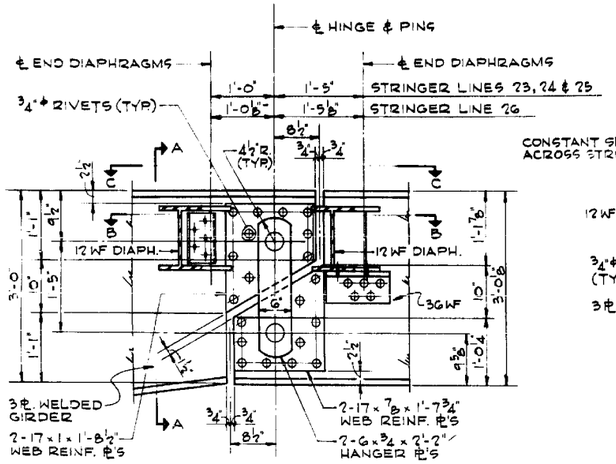
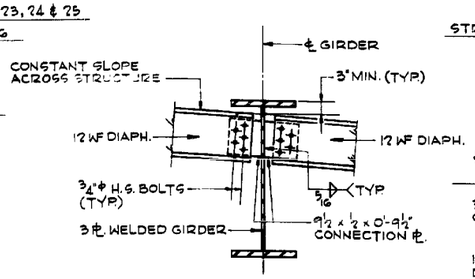


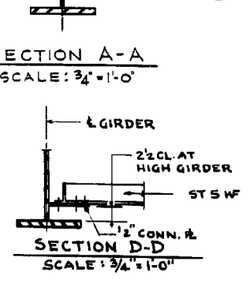
HINGE DETAIL - ELEVATION

SCALE: 1"=1'-0"



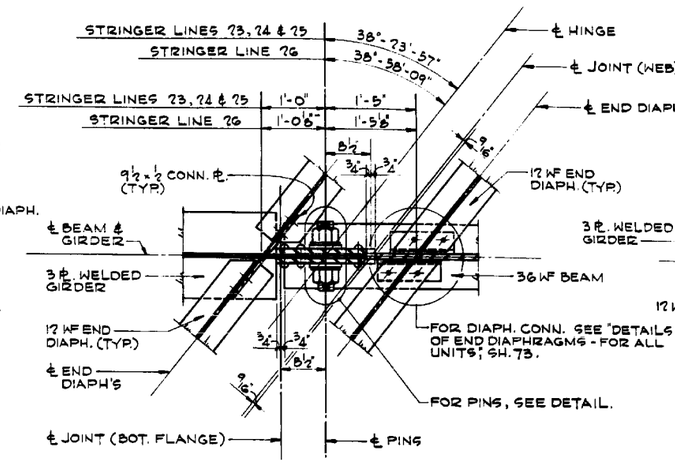
SECTION A-A

SCALE: ¾"=1'-0"



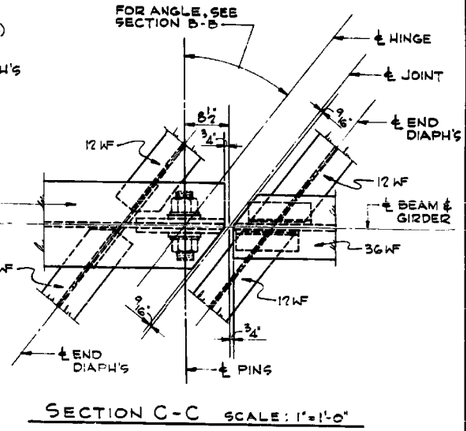
SECTION D-D

SCALE: ¾"=1'-0"

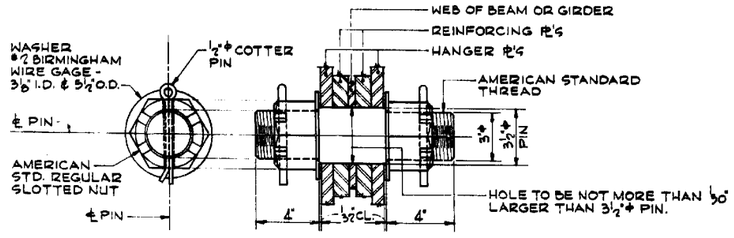


SECTION B-B SCALE: 1"=1'-0"

SHOWING DETAILS OF END DIAPHRAGMS D, D_1, D_2 & D_3 AT HINGE



SECTION C-C SCALE: 1"=1'-0"

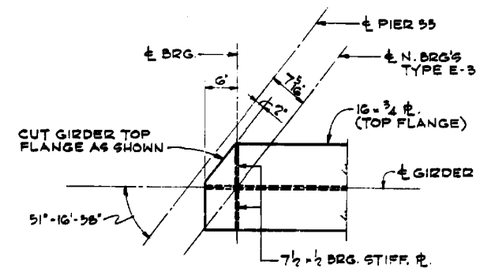


PIN DETAIL SCALE: 3"=1'-0"

TABLE OF MOMENTS AND REACTIONS
UNIT "B" - WEST BOUND ROADWAY - INTERIOR GIRDERS

	MOMENTS					REACTIONS			
	.4 SPAN 23-24	PIER 24	.5 SPAN 24-25	PIER 25	.6 SPAN 25-26	PIER 23	PIER 24	PIER 25	PIER 26
DEAD LOAD	510	-1045	483	-1045	510	33	116	116	33
LIVE LOAD	727	-754	725	-754	727	45	72	72	45
IMPACT	174	-173	159	-173	174	11	16	16	11
TOTAL	1411	-1972	1367	-1972	1411	89	204	204	89

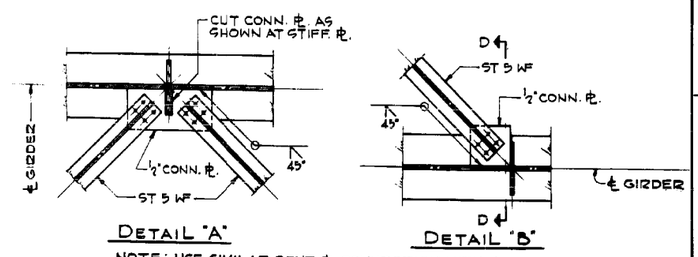
MOMENTS ARE IN FT.-KIPS.
REACTIONS ARE IN KIPS.



SECTION E-E

REFER TO "ELEVATION OF GIRDERS & BEAMS," SH. 66

SCALE: 1"=1'-0"



DETAIL "A"

DETAIL "B"

NOTE: USE SIMILAR BENT ℄. CONNECTION WITHIN WEB DEPTH TRANSITION & GIRDER CANTILEVER.

CONN. DETAILS OF BOT. LATERAL BRACING

FOR LOCATION OF DETAILS, SEE FRAMING PLANS SH. 63 & SH. 64.

SCALE: ¾"=1'-0"

REVISIONS

HANGER PLATES & PINS

MISC. STEEL DETAIL
UNITS A&B

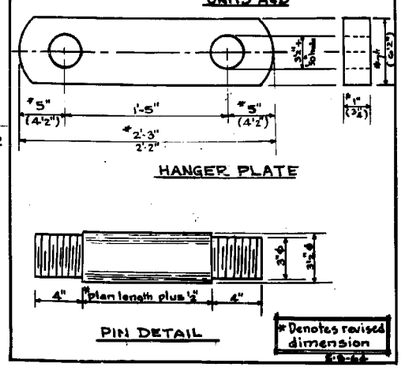


TABLE OF MOMENTS AND REACTIONS
UNIT "B" - RAMP "B" - INTERIOR GIRDERS

	MOMENTS						REACTIONS				
	.4 SPAN 55-56	PIER 56	.5 SPAN 56-57	PIER 57	.6 SPAN 57-58	PIER 58	PIER 55	PIER 56	PIER 57	PIER 58	HINGE
DEAD LOAD	838	-1782	870	-1526	426	-905	44	135	142	111	35
LIVE LOAD	955	-1154	986	-1119	947	-845	47	86	86	70	45
IMPACT	210	-236	187	-229	208	-268	10	18	18	21	13
TOTAL	2003	-3172	2043	-2874	1713*	-2068	101	239	246	202	93

MOMENTS ARE IN FT.-KIPS.
REACTIONS ARE IN KIPS.
* DESIGN MOMENT INCREASED ACCORDING TO A.A.S.H.O. REQUIREMENT FOR ALTERNATE STRESS.

NOTE:
FOR BILL OF MATERIAL, SEE SH. 63 & SH. 64.

DE LEUW, CATHER & CO. ENGINEERS
DESIGNED BY V.K. BURKEVICS
DRAWN BY J.A. CHALIKIS
CHECKED A. Mathews
IN CHARGE E.S. MARTINS
APPROVED L.N. RIAN

ILLINOIS DIVISION OF HIGHWAYS
SOUTHWEST EXPRESSWAY

LAWNDALE AVE. VIADUCT
MISCELLANEOUS STEEL DETAILS
UNITS A & B

SCALE: AS NOTED | DATE 11-25-1963

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-55	0707-075HB	COOK	95	67
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 67
SHEETS

benesch
engineers · scientists · planners
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450
Job No. 10093

FOR INFORMATION ONLY

FILE NAME = 0162457_60J16_101_existplan18.dgn	USER NAME = tjanicke	DESIGNED - FSM	REVISED -
		CHECKED - RMM	REVISED -
	PLOT SCALE =	DRAWN - FSM	REVISED -
	PLOT DATE = 12/20/2013	CHECKED - RMM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLAN INFORMATION (18 OF 26)
STRUCTURE NO. 016-2457
SHEET NO. SDX18 OF SDX26 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2013-038B-R	COOK	821	476
		CONTRACT NO. 60J16		
	ILLINOIS FED. AID PROJECT			

6/23/2014 2:42:08 PM X:\10000S\10093\Eng_Docs_Phase_II\SN.016.2456.2457.1st.Ave.over_Des_Plaines_River_Valley\Final\2457 Final\0162457_60J16_101_existplan18.dgn