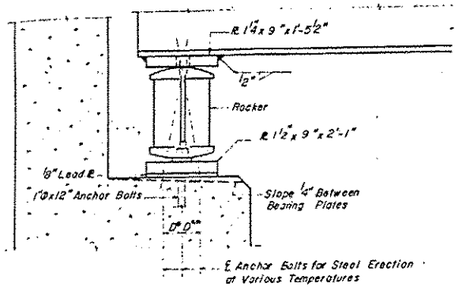
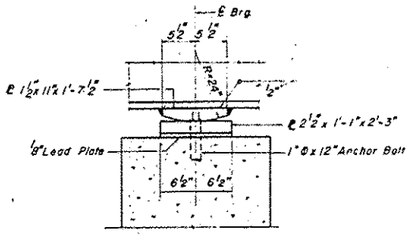
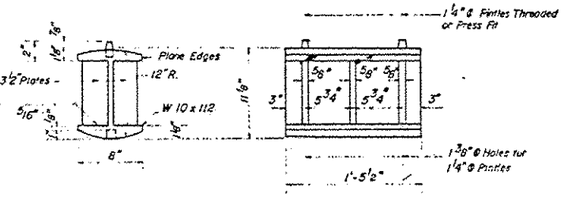
				SHEET NO. 10 A
F.A.I. 403	195-1 HB-1	WHITESIDE	249	16 SHEETS



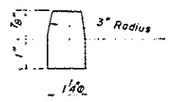
SECTION



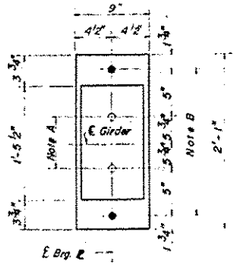
ELEVATION



ROCKER



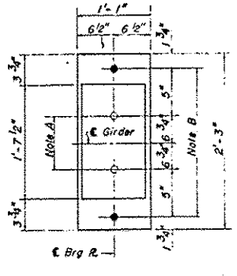
PINTLE



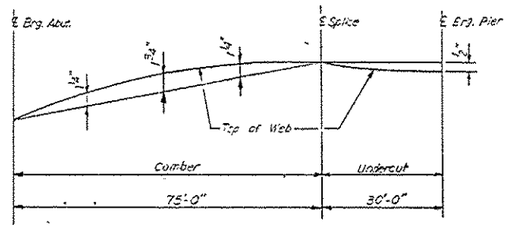
PLAN
AT ABUTMENTS

NOTE A
1⅜" Ø Holes - 1" Deep in Top ℄ for Pintles Thread or Press Fit Pintles into Bottom ℄.

NOTE B
½" Ø Holes for 1" Ø Anchor Bolts 5/16" x 2" x 2 ½" ℄ Washers Under Nut.



PLAN
AT PIER



CAMBER DIAGRAM
Showing Top of Girder Web

INTERIOR GIRDER REACTION TABLE			
Reactions		Abutments	Pier
R ℄	(K)	56.2	210.8
R L	(K)	49.9	80.8
Impact	(K)	11.0	17.8
R (Total)	(K)	117.1	309.4

STRESS TABLE
Symmetrical ℄ to Pier. Composite at Positive Moment Areas Only

INTERIOR GIRDER MOMENT TABLE			
		At 0.4 Span 2 83	At Pier
Is	(in^4)	21973.80	56806.70
Ic	(in^4)	60208.45	———
Ss	(in^3)	1065.65	2143.65
Sc	(in^3)	1523.68	———
D	(K/')	1.028	1.236
M b	('K)	661.74	1778.29
fs b	(Ksi)	7.45	9.95
S b	(K/')	0.474	0.474
MS b	('K)	374.27	687.06
M L	('K)	931.60	852.0
M(Imp.)	('K)	204.90	187.4
Total	('K)	1510.77	1726.5
fs L	(Ksi)	11.90	9.66
fs (Total)	(Ksi)	19.35	19.61
VR	(K)	58.5	———

Is & Ss are the Moment of Inertia and Section Modulus of the Steel Section.

Ic & Sc are the Moment of Inertia and Section Modulus of the Composite Section.

BEARING ASSEMBLY DETAILS

NOTES ON SETTING OF ANCHOR BOLTS AT EXP. BRGS.

a) D* (Side of brg away from fixed brg.)
D* = ⅛" per each 100' of expansion for every 15° fall below the normal temp of 50° F.
D** (Side of brg toward fixed brg.)
every 15° rise above the normal temp of 50° F.

b) After beams have been erected and dimensions D* or D** determined, holes shall be drilled and anchor bolts shall be grouted in place. All fixed anchor bolts may be built into the masonry.

* TOP OF WEB ELEVATIONS

Girder No.	N. Abutment	Splice 1	Pier	Splice 2	S. Abutment
1	612.47	612.70	612.60	612.62	612.14
2	612.56	612.80	612.73	612.74	612.21
3	612.64	612.92	612.86	612.89	612.48
4	612.72	613.04	612.93	613.00	612.64
5	612.60	613.14	613.10	613.14	612.60
6	612.64	613.00	612.93	613.04	612.72
7	612.48	612.89	612.86	612.92	612.64
8	612.31	612.74	612.73	612.80	612.56
9	612.14	612.62	612.62	612.70	612.47

* For Fabrication Only

DESIGNED	R.A.K.
CHECKED	K.M.C.
DRAWN	G.W.
CHECKED	

ILLINOIS DEPARTMENT OF TRANSPORTATION
STRUCTURAL DETAIL
FA 403 SECTION 195-1HB-3
CH ROUTE 13 OVER FA 403
WHITESIDE COUNTY
STATION 1198+69.26

FILE NAME = O:\BR\Doss\Whiteside\64J89 Cleaning & Painting SN 098-0057 & SN 089-8043\CADD\02B7-02AWN.dgn	USER NAME = dossdd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
Default	PLOT DATE = Fri Nov 08 08:11:42 2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	02 BRIDGE PAINTING 2014-2	WHITESIDE	9	9E
		CONTRACT NO. 64J89		
		ILLINOIS FED. AID PROJECT		