STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONTRACT 98939
U.S. RTE. 60 & U.S. RTE. 62
(138D-BR) P-1
ALEXANDER COUNTY
SHEET 25 OF 85

ILLINOIS APPROACH - PLATE GIRDER REPAIR SCHEDULE

SPAN NUMBER	PIER NUMBER	GIRDER LOCATION: UPSTREAM	DOWNSTREAM	UPSTREAM-INSIDE	DOWNSTREAM-INSIDE	REMARKS
21 N	N. ABUT. TO 20 N	Sole plate and outside flange angle have 1/8" pack rust in between them at North Abutment. See Note "4" This Sheet.	Sole plate and outside flange angle have 1/8" pack rust in between them at North Abutment. See Note "4" This Sheet.	Sole plate and outside flange angle have 1/8" pack rust in between them at North Abutment. See Note 4, This Sheet.	Sole plate and inside flange angle have 1/8" pack rust in between them at North Abutment. See Note "4" This Sheet.	
		Sole plate and inside flange angle have 1/8" pack rust in between them at Pier 20 N. See Note "2" This Sheet.	Sole plate and inside flange angle have 1/4" pack rust in between them at North Abutment. See Note "4" This Sheet.	Sole plate and inside flange angle have 1/8" pack rust in between them at Pier 20 N. See Note "2" This Sheet.	Sole plate and outside flange angle have 1/8" pack rust in between them at Pier 20N. See Note "2" This Sheet.	
		Inside and outside bottom flange angles have 1/8" to 1/4" loss at bott. adjacent to sole plate at Pier 20 N. See Note "2" This Sheet.	Inside and outside bottom flange angles have 1/8" to 3/16" loss at bott. adjacent to sole plate at North Abutment. See Note "4" This Sheet	Outside bottom flange angle has 3/16" loss at bottom adjacent to sole plate at Pier 20N. See Note "2" This Sheet.	Inside and outside bottom flange angles have 3/16" to 1/4" loss at bott. adjacent to sole plate at Pier 20 N. See Note "2" This Sh.	
		Outside bottom flange angle has 1/8" loss between to stiffener #1 at brg. See Note "3" This Sheet.	Inside and outside bottom flange angles have 1/16" loss at bottom adjacent to sole plate at Pier 20N. See Note "2" This Sheet. *			
			Outside bottom flange angle has 1/8" to 3/16" loss between stiffeners #13 and #14 at top. See Note "3" This Sheet.			* Downstream Girder: This repair was performed as a test by district force.
20 N	20 N TO 19 N	Sole plate and outside bott. flange angle have 1/16" pack rust in between them at Pier 20N. See Note "1" This Sheet.	Sole plate and outside bott. flange angle have 1/8" pack rust in between them at Pier 19N. See Note "2" This Sheet.	Sole plate and inside and outside bottom flange angles have 1/4" max. pack rust in between them at Pier 19N. See Note "2" This Sheet.	Sole plate and outside bottom flange angle have 1/4" pack rust in between them at Pier 19 N. See Note "2" This Sheet.	
		Sole plate and inside bott. flange angle have 1/4" pack rust in between them at Pier 19N. See Note "2" This Sheet.	Inside bottom flange angle has 3/16" loss at bottom and 1/8" loss at top adjacent to sole plate at Pier 19 N. See Note "2" This Sheet.	Sole plate and inside and outside bottom flange angles have 1/16" to 1/8" pack rust in between them at Pier 20N. See Note "1" This Sheet.	Sole plate and inside and outside bottom flange angles have 1/8" to 1/4" pack rust in between them at Pier 20N. See Note "1" This Sheet.	
		Inside bottom flg. angle has 3/16" loss at bottom and 1/8" loss at top adjacent to sole plate at Pier 19 N. See Note "2" This Sheet.	Outside bottom flange angle has 3/16" loss at top adjacent to sole plate at Pier 19 N. See Note "2" This Sheet.	Inside bottom flange angle has 1/8" loss at bottom adjacent to sole plate at Pier 20N. See Note "1" This Sheet.	Outside bottom flange angle is part adjacent to sole plate at Pier 19 N. See Remarks	Downstream - Inside: Straighten flange as directed by the Engineer.
		Inside bottom flange angle has 1/8" loss at bottom adjacent to sole plate at Pier 20 N. See Note "1" This Sheet.	Outside bottom flange angle has 1/8" loss between stiffeners 1-2, 7-8, 11-12 & 14 to end, 3/16" loss 3-4 at top. See Note "3" This Sheet.	Inside and outside top flange angles have 1/8" loss at top between stiffener #1 and the end. See Note "3" This Sheet.	Inside and outside top flange angles have 1/8" loss at top between stiffeners #1 and the end. See Note "3, This Sheet	
		Outside bott. flange angle has 1/8" loss adjacent to stiffener #4 at top. See Note "3" This Sheet.		Outside face of the web has 3/16" loss near the bottom between stiffener #1 and the end. See Note "3" This Sheet.	Inside and outside bottom flange angles have 1/8" loss at bottom adjacent to sole plate at Pier 19N. See Note "2" This Sheet.	
		Outside stiffener #4 has 40% loss of section at bottom. See Note "3" This Sheet.			Outside bottom flange angle has 1/4" loss at bottom adjacent to sole plate at Pier 20N. See Note "1" This Sheet.	
		Outside stiffener #4 has 40% loss of section at bottom. See Note "3" This Sheet.			Outside bottom flange angle has 1/4" loss at bottom adjacent to sole plate at Pier 20N. See Note "1" This Sheet.	
19 N	19 N TO 18 N	Sole plate and outside bott. flange angle have 1/8" pack rust in between them at Pier 19N. See Note "2" This Sheet.	Sole plate and inside bottom flange angle have 1/4" pack rust in between them at Pier 19N. See Note "2" This Sheet.	Sole plate and inside bott. flange angle have 1/8" pack rust in between them at Pier 19N. See Note "1" This Sheet.	Sole plate and inside bott. flange angle have 1/8" pack rust in between them at Pier 19N. See Note "2" This Sheet	
		Sole plate and outside bott. flange angle have 1/8" pack rust in between them at Pier 19N. See Note "1" This Sheet.	Sole plate and outside bottom flange angle have 1/8" pack rust in between them at Pier 18 N. See Note "1" This Sheet.	Sole plate and outside bottom flange angle have 1/8" pack rust in between them at Pier 18 N. See Note "2" This Sheet.	Inside and outside bottom flange angles have 1/8" loss at top between stiffener #1 and the end. See Note "3" This Sheet.	
		Inside bottom flange angle has 3/16" loss at bottom adjacent to sole plate at Pier 18N. See Note "2" This Sheet.	Inside and outside top flanges have 1/8" loss at top between stiffener #1 and the end. See Note "3" This Sheet.	Inside bottom flange angle has 3/16" loss at top and bottom between stiffener #1- End. (6/27) For repair, see detail	Inside and outside bottom flange angles have 1/8" to 3/16" loss at bottom adjacent to sole plate at Pier 18N. See Note "2" This Sh.	Upstream-Inside Girder: A = 28 1/2" for Detail "6" N = 4
		Inside bottom flange angle has 3/16" loss at bottom adjacent to sole plate at Pier 19N. See Note "1" This Sheet.	Outside top flange angle has 1/8" loss at bottom between stiffener #1 and the end. See Note "3" This Sheet.	Outside bottom flange angle has 1/8" loss at top and 1/4" loss at bottom between stiffener #1 and the end. See Note "3" This Sh.	Inside bottom flange angle has 1/8" loss at top and bottom between stiffener #1 and the end. See Note "3" This Sheet.	
		Inside top flange angle has 1/8" loss at bottom between the end and stiffener #1. See Note "3" This Sheet.	Outside face of the web has 1/8" loss near the bottom between stiffener #1 and the end. See Note "3" This Sheet.	Inside top flange angle has 3/16" loss at top between stiffener #1 and the end. See Note "3" This Sheet.	Outside bottom flange angle has 3/16" loss at top and 1/8" loss at bottom between stiffener #1 and the end. See Note "3" This Sheet.	
		Outside bottom flange angle has 1/8" loss between stiffeners 11-12, 6-7, 4-5, 1-2 & 1 to end at top. See Note "3" This Sheet.	Inside bottom flange angle has 3/16" loss at bottom adjacent to sole plate at Pier 18N. See Note "2" This Sheet.	Outside top flange angle has 1/8" loss at top between stiffener #1 and the end. See Note "3" This Sheet.	Outside face of the web has 1/4" loss and holes near the bottom between stiffener #1 and the end (1/25) For repair, see detail A = 17 1/4", B = 12 1/2", n = 5, n1 = 2	
			Inside and outside bottom flange angles have 1/8" to 1/4" loss at top adjacent to sole plate at Pier 19N. See Note "1" This Sheet.			
			Outside bottom flange angle has 1/8" loss btwn. stiff. 12-13, 10-11, 8-9 & 6-7, 3/16" loss btwn. 2 to end at top. See Note "3" This Sheet.			

SPAN NUMBER	PIER NUMBER	GIRDER LOCATION: UPSTREAM	DOWNSTREAM	UPSTREAM-INSIDE	DOWNSTREAM-INSIDE	REMARKS
18 N	18 N TO 17 N	Sole plate and inside and outside bottom flange angles have 1/8" to 1/4" pack rust in between them at Pier 17N. See Note "2" This Sheet.	Sole plate and inside and outside bottom flange angles have 1/8" pack rust in between them at Pier 17 N. See Note "2" This Sheet.	Sole plate and inside and outside bottom flange angles have 1/4" max. pack rust in between them at Pier 17N. See Note "2" This Sheet.	Sole plate and inside and outside bottom flange angles have 1/4" pack rust in between and at Pier 17N. See Note "2" This Sheet.	
		Sole plate and inside bottom flange angle have 1/8" pack rust in between them at Pier 18 N. See Note "1" This Sheet.	Sole plate and outside bott. flange angle have 1/8" pack rust in between them at Pier 18N. See Note "1" This Sheet	Sole plate and outside bottom flange angle have pack rust in between them at Pier 18N. See Note "1" This Sheet.	The web has a hole near the bottom between stiffener #1 and the end. See Note "3" This Sheet.	
		Outside face of the web has 3/16" loss near the bottom between stiffener #1 and the end. See Note "3" This Sheet	Inside and outside faces of the web have 1/8" loss near the bottom between stiffener #1 and the end. See Note "3" This Sheet.	Outside face of the web has 3/16" loss near the bottom between stiffener #1 and the end. See Note "3" This Sheet.	Inside bott. flange angle has 1/8" loss at top and 1/4" at bott. between stiff. #15 and the end. (3/26) For repair, see detail	
		Inside bottom flange angle has 1/8" loss at top and bottom adjacent to sole plate at Pier 17. See Note "2" This Sheet.	Outside top flange angle has 1/8" loss at bottom between stiffener #1 and the end. See Note "3" This Sheet.	Outside bottom flange angle has 1/8" loss at top and bottom adjacent to sole plate at Pier 17N. See Note "2" This Sheet.	Outside bott. flange angle has 1/4" loss at bott. between stiffener #15 and the end. See above for repair.	
		Inside bottom flange angle has 1/16" loss adjacent to stiffener #1 at top. See Note "3" This Sheet.	Sole plate and inside and outside bottom flange angles have 1/4" to 3/16" loss at bott. adjacent to sole plate at Pier 17N. See Note "2" This Sh.	Inside bottom flange angle has 1/8" loss at bottom adjacent to sole plate at Pier 17N. See Note "2" This Sheet.	Inside and outside bottom flange angles have 1/4" to 1/8" loss at bottom adjacent to sole plate at Pier 17N. See Note "3" This Sheet.	
		Outside bottom flange angle has 1/8" loss between stiffeners 4-5, 6-7, 13-14 and 15 to the end at top. See Note "3" This Sheet.	Outside bottom flange angle has 1/4" loss at bottom between stiff. #1 and the end. See Note "3" This Sheet.	Outside bottom flange angle has 3/16" loss at top between stiffener #1 and the end. See above for repair.		Upstream - Inside Girder: A = 34 1/2" for Detail "6" N = 5
			Outside bottom flange angle has 1/8" loss btwn. stiffeners 2-5, 6-7, 9-10 and 12-13, 3/16" loss btwn. stiff. 5-6, 7-8 and 13-14, and 1/8" to 3/16" loss btwn stiff. 8-9 and 11-12 at top. See Note "3" This Sheet.			
17 N	17 N TO 16 N	Sole plate and inside bott. flange angle have 1/4" pack rust in between them at Pier 16 N. See Note "2" This Sheet.	Sole plate and outside bott. flange angle have 1/8" pack rust in between them at Pier 16N See Note "2" This Sheet.	Sole plate and inside bott. flange have 3/8" pack rust in between them at Pier 16 N. See Note "2" This Sheet.	Sole plate and inside and outside bottom flange angles have 1/4" to 3/8" pack rust in between them at Pier 16N. See Note "2" This Sheet.	
		Sole plate and inside bott. flange angle have 1/8" pack rust in between them at Pier 17N. See Note "1" This Sheet.	Sole plate and outside bott. flange angle have considerable pack rust in between them at Pier 17N. See Note "1" This Sheet.	Sole plate and inside bott. flange angle have 1/8" pack rust in between them at Pier 17 N. See Note "1" This Sheet.	Sole plate and inside bott. flange angle has 1/8" pack rust in between them at Pier 17N. See Note "1" This Sheet.	
		Sole plate and inside bott. flange angle have 1/8" pack rust in between them at Pier 17N. See Note "1" This Sheet.	Outside face of the web has 1/4" loss near the bottom between stiffener #1 and the end. Use A = 14 1/4", B = 9 1/2", n = 4 and n1 = 1. For repair, see detail (1/25)	The web has a hole near the bott. between stiffener #1 and the end. See Note "3" This Sheet.	Outside face of the web has 3/16" loss and a hole near the bott. btwn. stiffener #1 and the end. See Note "3" This Sheet.	
		Inside and outside faces of the web have 3/16" loss near the bottom between stiffener #1 and the end. See Note "3" This Sheet.		Inside and outside bottom flange angles have 1/4" to 5/16" loss at bott. adjacent to sole plate at Pier 17N. See Note "3" This Sheet.	Outside face of the web has 3/16" loss near the top between stiff. #1 and the end. See Note "3" This Sheet.	
		Outside bott. flange angle has 1/4" loss at top and 1/8" at bott. between stiffener #15 and the end. (3/26) For repair, see detail			Inside bottom flange angle has 3/8" loss at bottom between stiffener #15 and the end. (3/26) For repair, see detail	
		Inside bottom flange angle has 3/16" loss at bottom adjacent to sole plate at Pier 17N. See Note "2" This Sheet.	Outside bottom flange angle has 1/4" loss at bottom between stiff. #1 and the end. See Note "3" This Sheet.	Inside and outside bottom flange angles have 1/8" to 3/16" loss at top between stiffener #15 and the end. See Note "3" This Sheet.	Outside bott. flange angle has 1/8" to 1/4" loss at bott. and 1/8" loss at top btwn. stiff. #1 and the end. (6/27) For repair, see detail	Downstream - Inside Girder: A = 34 1/2" for Detail "6" N = 5
		Inside bottom flange angle has 3/16" loss at bottom between stiff. #1 and the end. See Note "3" This Sheet.	Outside bott. flange angle has 1/8" loss btwn. stiff. #1 and the end, 3/8" btwn. stiff. #15 and the end at top. See Note "3" This Sheet.		Inside bottom flange angle has 1/4" loss at bottom between stiffener #1 and the end. See above for repair.	
		Outside bottom flange angle has 1/8" loss at top between stiffeners 5-6 and 9-10. See Note "3" This Sheet.	Outside bott. flange angle has 1/8" loss btwn. stiff. 3-4, 7-8, 12-13 & 15-End, 1/4" loss btwn. stiff. 1-2, 3/16" loss btwn. stiff 6-7, 11-12 and 13-14 at top. See Note "3" This Sheet.			
		Outside bottom flange angle has 3/16" loss at top between stiff. #1 and the end. See Note "3" This Sheet.				
			Inside face of the web has 1/8" loss and a hole near the top between stiffener #1 and the end. See Note "3" This Sheet.			

NOTES:
1. Clean girder end and remove all rust, foreign material and old paint down to the bare metal. Seat bearing using Fixed Bearing Repair Detail, Sheet 31.
2. Clean girder end and remove all rust, foreign material and old paint down to the bare metal. Expansion bearing is being replaced. See Bearing Repair Schedule, Sheets 28-30 and Expansion Bearing Replacement Details, Sheet 32.
3. Clean and remove all rust, foreign material and old paint down to the bare metal. Cost incidental to "Cleaning and Painting."
4. Clean girder end and remove all rust, foreign material and old paint down to the bare metal. Abutment bearing is being replaced. See Bearing Repair Schedule, Sheets 28-30 and Abutment Bearing Replacement Details, Sheet 31.

DESIGNED	[illegible]
CHECKED	R.F.C.
DRAWN	[illegible]
CHECKED	F.S. - R.F.C.

Detail Number / Sheet Number
LEGEND

* NOTE: Work This Sheet with Sheets 25 thru 32.

BRIDGE NO. 1
STRUCTURE 002-0005
FOR INFORMATION ONLY

ILLINOIS APPROACH SPANS
GIRDER REPAIR SCHEDULE
F.A.U.S. Rte. 9811 (U.S. 60 & 62)
S.B.I. 150 SECTION 138D-BR
ALEXANDER CO., IL. MISSISSIPPI CO., MO.
STATION 28+13.08

BRIGHTON ENGINEERING COMPANY CONSULTING ENGINEERS SCHAUMBURG, ILLINOIS