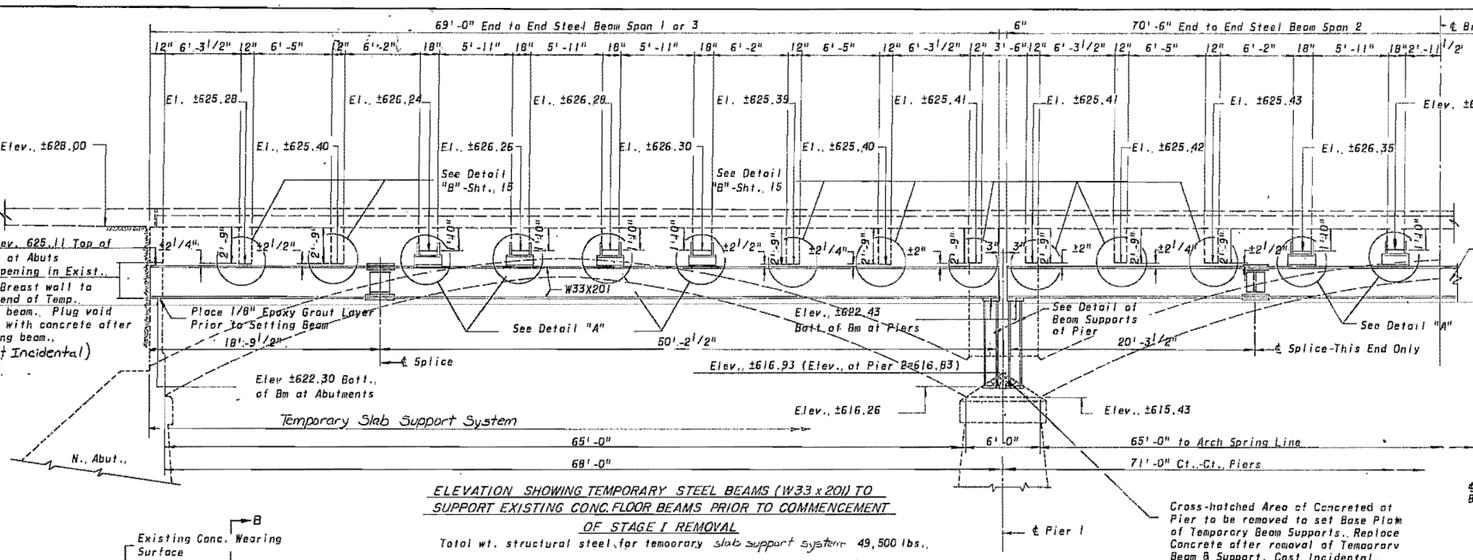
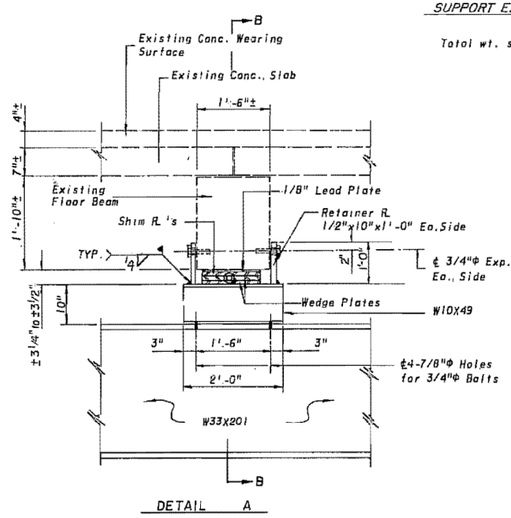
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA 18	103-D-BR	JO DAVIESS	27	22

SHEET 14 OF 15 SHEETS

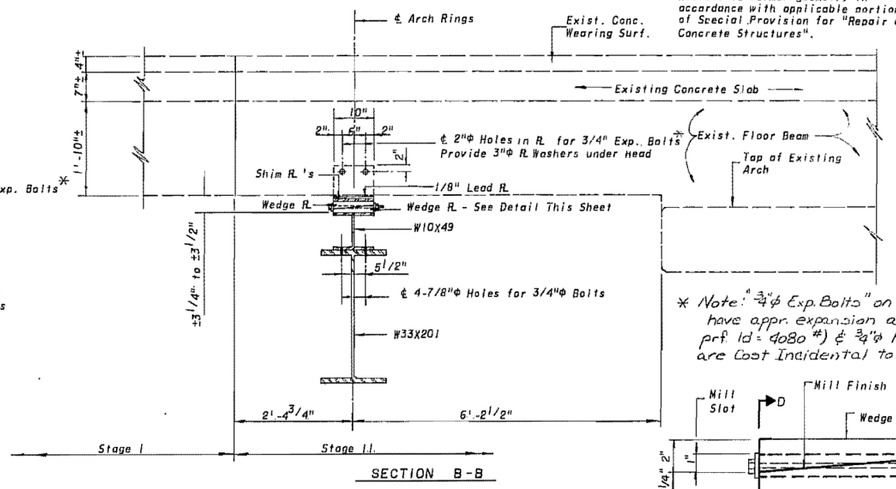


ELEVATION SHOWING TEMPORARY STEEL BEAMS (W33 x 201) TO SUPPORT EXISTING CONC. FLOOR BEAMS PRIOR TO COMMENCEMENT OF STAGE I REMOVAL

Total wt. structural steel for temporary slab support system 49,500 lbs.,

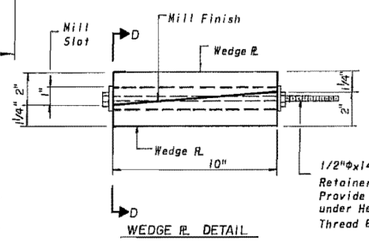


DETAIL A

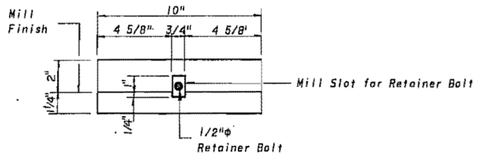


SECTION B-B

* Note: "3/4" Exp. Bolts" on this sheet shall have appr. expansion anchors (min. cert. prf. Id: 4080 #) & 3/4"Φ H.S. bolts. These are Cost Incidental to Rem. of Exist. Super.

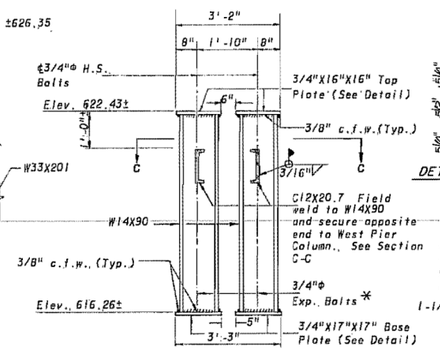


WEDGE R. DETAIL

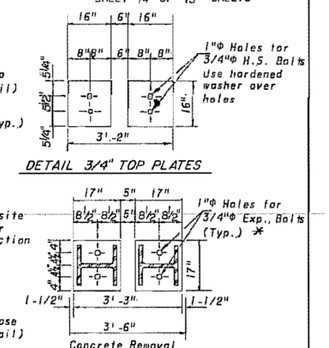


VIEW D-D

NOTE: Furnish and install 1/4"x10"x0'-10" Shim Plates as required.-

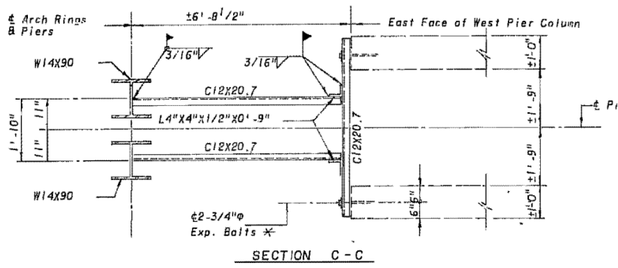


DETAIL OF STEEL BEAM SUPPORTS AT PIER I
(DETAIL AT PIER 2 SIMILAR)

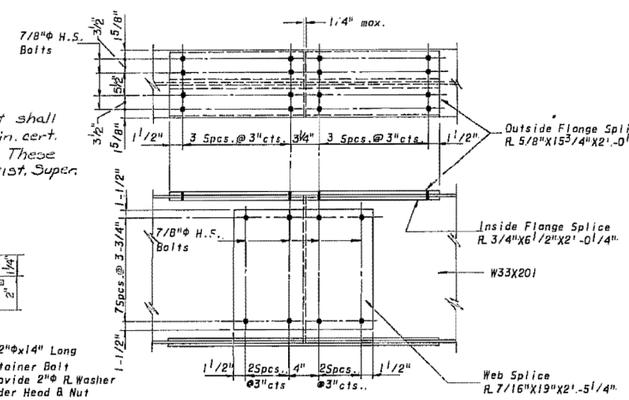


DETAIL 3/4" TOP PLATES

DETAIL 3/4" BASE PLATES



SECTION C-C



SPLICE DETAIL

SEQUENCE FOR ERECTION OF TEMPORARY STEEL BEAMS & STAGE I SUPERSTRUCTURE REMOVAL:

1., Prior to commencing Stage I. Superstructure Removal, temporary steel beams shall be erected to support the superstructure floor beams, in accordance with the details shown. The following sequence of operations is presented as an approved sequence. Alternate procedures meeting the approval of the Engineer may be used.,

2., Cut required openings in abutment breast walls and grout beam seats level to required elevations., Remove existing concrete at piers as shown on details and grout to required elevation for stub column bearings at piers.,

3., Move W33x201 in place under superstructure., Temporary support of W33x201 may be devised by shoring,, providing cross framing between existing arches or any other method, all of which must meet the approval of the Engineer.,

4., Complete splice and install stub column supports at piers.,

5., Install W10x49 beam stubs under intermediate floor beams as shown.,

6., Insert bottom wedge plate and tack weld to W10X49 flange., Insert loosely top wedge plate,, lead plate and required shim plates at all floor beam locations.,

7., Proceding in a symmetrical fashion about the centerline of each span drive wedge plates to tight fit under floor beams, tighten retaining bolt and repeat as required until tight fit has been obtained under all floor beams.,

8., After tight fit has been obtained under all floor beams in span, tack weld shim plates, wedge plates and W10x49 beam stub together to prevent slippage of assembly.,

9., Weld side retaining plates to intermediate load transfer assembly as shown on details, and install expansion anchor bolts through plates.,

10., Cost for furnishing and erecting temporary steel beams, supports, splices, shims, wedge plates and related work shall be included in the cost for "Temporary Slab Support System".

11., After erection of all temp. steel beams, Stage I. Superstructure removal shall commence., Removal of the existing deck and spandrels shall begin at the center of each span and proceed longitudinally in a symmetrical fashion towards end supports.,(Piers & Abuts)

12., The Contractor is responsible for protecting the existing concrete arches during all phases of construction., Any temporary falsework on the arches shall be approved by the Engineer.,

13. Cost of removing & disposing of the temp. support system shall be incidental to "Temporary Slab Support System".

DESIGNED:	V. S. N.
CHECKED:	D.H.C.
DRAWN:	R.A.W.
CHECKED:	K.L.F

H. M. B. G. NO. 1930/0028

TEMPORARY SLAB SUPPORT & STAGE CONSTRUCTION DETAILS

F.A. RTE. 18 OVER APPLE RIVER
F.A. RTE. 18, SEC. 103-D-BR
JO DAVIESS COUNTY
STATION 259+08.20

REVISED 1/6/83 JE

FOR INFORMATION ONLY

design firm no. 184001036

whks engineers • planners • land surveyors

USER NAME = dheberling	DESIGNED -	REVISED
FILE NAME = 0430028-64E08.dgn	CHECKED -	REVISED
PLOT SCALE = 02.00000 '/ ' in.	DRAWN -	REVISED
PLOT DATE = 8/5/2013	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 043-0080
SHEET NO. 59 OF 60 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103BR-4	JoDAVIESS	159	109
		CONTRACT NO. 64E08		
	ILLINOIS FED. AID PROJECT			