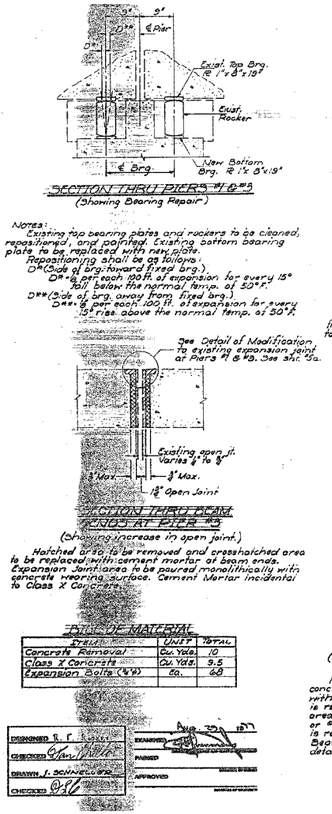
CONTRACT NO. 76864

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	54BR-1	MADISON	61	51
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



SECTION THRU PIERS #1 & #3
(Showing Bearing Repair)

Notes:
Existing top bearing plates and rockers to be cleaned, repositioned, and painted. Existing bottom bearing plate to be replaced with new plate.
Repositioning shall be as follows:
0" (Side of brg. toward fixed brg.)
D= 1/8" per each 100 ft. of expansion, for every 15° F fall below the normal temp. of 50° F.
D= 0" (Side of brg. away from fixed brg.)
D= 1/8" per each 100 ft. of expansion for every 15° F rise above the normal temp. of 50° F.

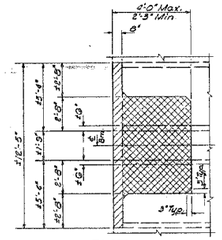
SECTION THRU BEAM ENDS AT PIER #3
(Showing increase in open joint.)

Hatched area to be removed and crosshatched area to be replaced with cement mortar at beam ends. Expansion Joint area to be poured monolithically with concrete wearing surface. Cement Mortar incidental to Class X Concrete.

FULL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yds.	10
Class X Concrete	Cu. Yds.	5.5
Expansion Bolts (4")	Ea.	60

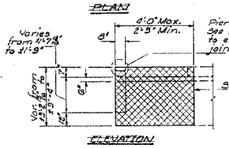
DESIGNED S. F.
CHECKED C. M.
DRAWN J. SCHNELLER
CHECKED C. M.
EXAMINED
PASSED
APPROVED



PLAN

Notes:
Hatched area to be removed as required at Piers #1, #2 or #3. Hatched area to be replaced at Pier #2. Crosshatched area to be replaced at Piers #1 or #3. Expansion joint area to be poured monolithically with concrete wearing surface. Clean existing reinforcement and leave in place. If extensive repairs must be made on an interior beam, the Bridge must be closed to traffic to avoid damage to the slab.

Note:
All construction joints shall be sanded in accordance with Art. 508.13 (a) 2.



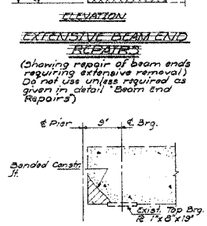
Piers #1 & #3 Only. See Detail of Modification to existing expansion joint of Piers #1 & #3.

ELEVATION

Notes: (Pier #2 & Abutments)
Additional areas of broken or unsound concrete in Pier #2 cap shall be removed and replaced as required. Cost incidental to Class X Concrete.
All cracks in sound concrete in existing Piers and Abutments shall be filled with epoxy grout. Cost incidental to Class X Concrete.

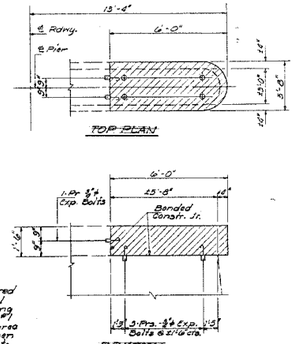
EXTENSIVE BEAM END REPAIRS

(Showing repair of beam ends requiring extensive removal.) Do not use unless required as given in detail "Beam End Repairs")



BEAM END REPAIRS
(Showing replacement of unsound concrete)

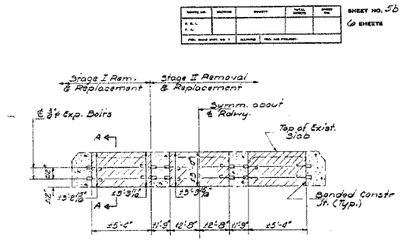
Hatched area indicates broken or unsound concrete to be removed and replaced as required with concrete. If extensive beam end removal is required so that more than 40 in² of bearing area on the existing top bearing plate of Pier #1 or #3 is lost, or less than 30 in² of bearing area is remaining at Pier #2 or the Abutments, then Beam End Repair must be done according to detail "Extensive Beam End Repairs".



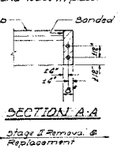
TOP PLAN

ELEVATION

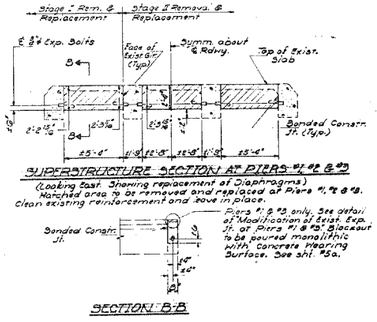
PIER #2 - SOUTH END
(Hatched area to be removed & replaced.)



SUPERSTRUCTURE SECTION AT ABUTMENTS
(Showing replacement of Abutment backwalls)
(Looking East)
Hatched area to be removed and replaced. Clean exist. reinforcement and leave in place.



SECTION A-A



SUPERSTRUCTURE SECTION AT PIERS #1, #2 & #3
(Looking East. Showing replacement of Diaphragms)
Hatched area to be removed and replaced at Piers #1, #2 & #3. Clean existing reinforcement and leave in place.

SECTION B-B

REPAIR DETAILS
FAS RT. 1842 SEC. 106 BY
ST. CLAIR COUNTY
STA. 6+03.76 to 6+84

SHEET NO. 5b OF SHEETS

FOR INFORMATION ONLY

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTRURE PLANS

FAS ROUTE 1842
SECTION 106BR
ST CLAIR COUNTY

SCALE: VERT.
HORIZ.
DATE

DRAWN BY
CHECKED BY

PLOT DATE = 11/8/2006
FILE NAME = c:\projects\fed\4198\plan\profile4198a1.dgn
PLOT SCALE = 50.0000 ' / IN.
REFERENCE = REF