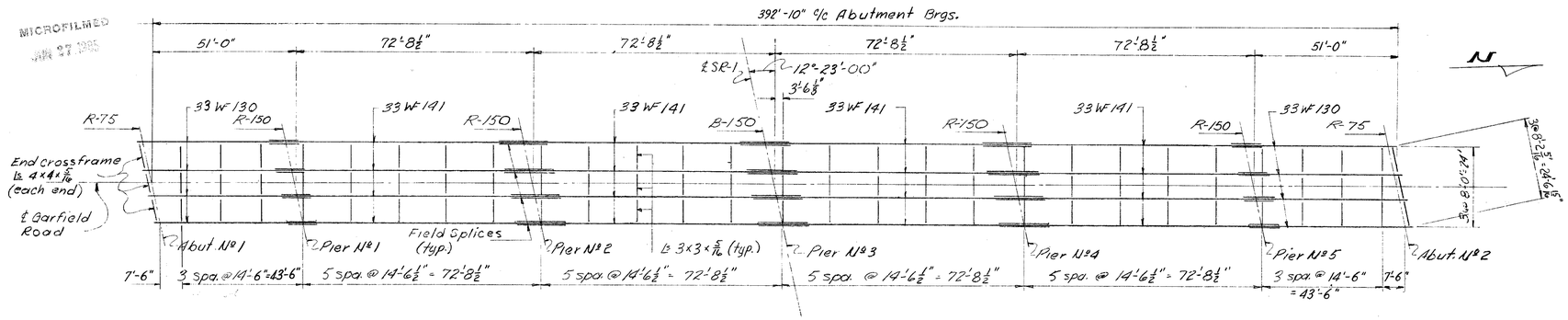
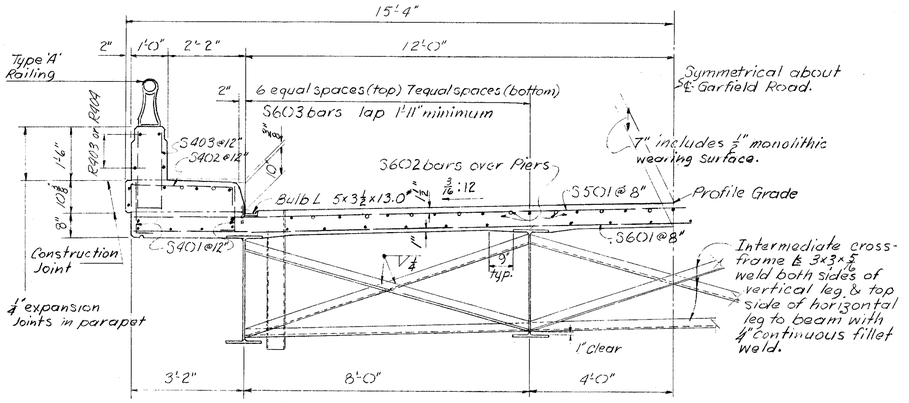
MICROFILMED
APR 27 1995

FED. RD. DIVISION	STATE	PROJECT		233 / 277
2	OHIO			

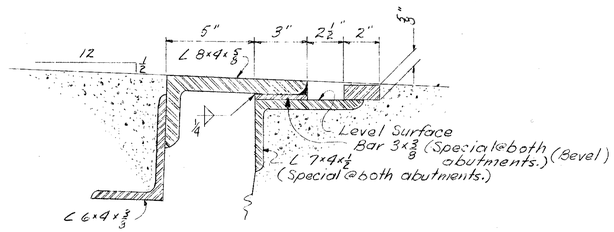
LAKE COUNTY
SEC. LAK-1-6.97



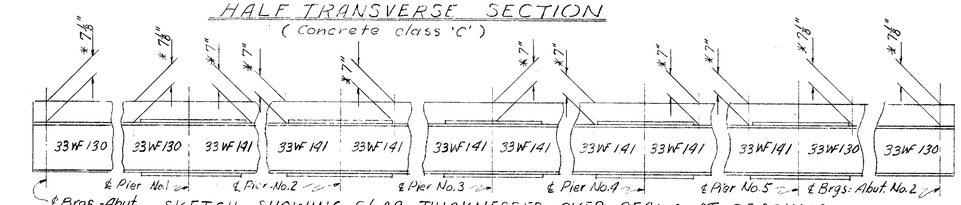
STEEL FRAMING PLAN



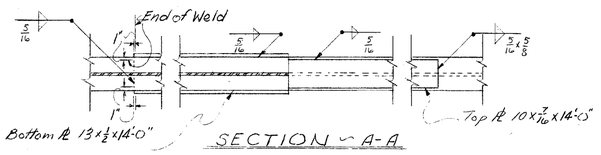
HALF TRANSVERSE SECTION
(Concrete class 'C')



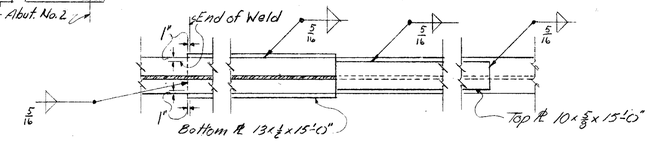
SPECIAL END DAM DETAIL
(For details not shown, see Std. Drwg. CSB-2-56)



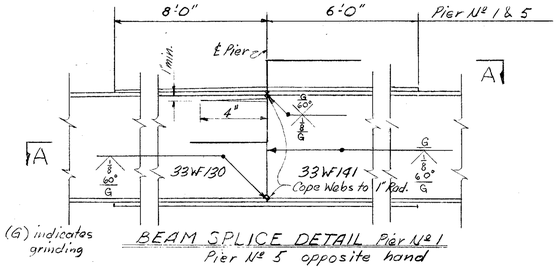
SKETCH SHOWING SLAB THICKNESSES OVER BEAMS AT BEARINGS



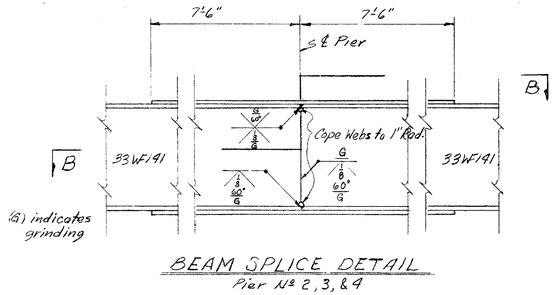
SECTION ~ A-A



SECTION ~ B-B



BEAM SPLICE DETAIL Pier № 1
Pier № 5 opposite hand



BEAM SPLICE DETAIL
Pier № 2, 3, & 4

DEFLECTION & CAMBER

	SPAN NO.1	SPAN NO.2	SPAN NO.3	SPAN NO.4	SPAN NO.5	SPAN NO.6
Deflection due to weight of steel	0	1/8"	1/16"	1/16"	1/8"	0
Deflection due to remaining dead load	1/4"	5/8"	9/16"	9/16"	5/8"	1/4"
Convexity required for vertical curve	13/16"	1 5/8"	1 3/8"	1 3/8"	1 5/8"	13/16"
Sum of deflection and convexity	1 1/16"	2 3/8"	2 1/4"	2 1/4"	2 3/8"	1 1/16
Required camber	1 1/16"	2 3/8"	2 1/4"	2 1/4"	2 3/8"	1 1/16

NOTES

- REFERENCE shall be made to Standard Drawing CSB-2-56 sheets, 2 & 3 of 6, revised 2-2-59 for details of endd ams, gutters, scuppers, pipe drains and curb plates.
- REFERENCE shall be made to Standard Drawing RB-1-55 revised 2-2-59 for details of rockers and bolsters.
- REFERENCE shall be made to Standard Drawing AR-1-57 revised 2-2-59 for details of aluminum railing Type 'A' and concrete parapet details.
- WELDING of structural steel shall be Class 'A' except as otherwise shown. Welds shown as field welds may, at the option of the Contractor, be made in the shop.
- PAINTING: After erection and after the shop coat has been cleaned and where nessary, repainted in accordance with Sec. B.09, an additional coat of the same paint as used in the shop shall be applied over the outside face of the outside beams and all sides of the bottom flange.
- DECK SLAB DEPTH: * This is the nominal dimension. The quantity of deck concrete to be paid for shall be based on this dimension, even though deviation from it may be nessary because the top flange of the beam may not have the exact camber or conformation regired to place it parallel to the finished grade.
- CONCRETE DECK PLACING: In order to facilitate water curing of the concrete of the deck slab, the placing of concrete shall progress upgrade. The slab may be placed in sections, between transverse construction joints which are parallel to transverse reinforcing steel and are located near the center of any span.
- BEAM SPLICE WELDING PROCEDURE: For stability during erection, splice procedure will begin at the fixed bearing as follows:
  1.- Raise end of beam at pier № 4 - 2¼"
  2.- Butt-weld beam flanges and web at Pier № 3 using the following sequence: make two passes on each flange, then two on the web; repeat, using one pass at each location, until welds are completed.
  3.- Weld top and bottom flange moment plates at Pier № 3.
  4.- Lower end of beam at pier № 4.
  5.- Make splices at Piers № 4 & 5 in the same manner, raising the ends of the beams 2¼" at Pier № 5 and 1" at Abutment № 2.
  6. Then, make splices at Pier № 2 & 1 in the same manner, raising the ends of the beams - 2¼" at Pier № 1 and 1" at Abutment № 1.
- Concrete and reinforcing steel above parapet construction joint included with railing for payment.
- REINFORCING STEEL, shall have 2" of cover from all faces except as otherwise shown.

SEC. C-31

PREPARED BY
CAPITOL ENGINEERING ASSOCIATES, DILLSBURG, PA.
FOR
STATE OF OHIO
DEPARTMENT OF HIGHWAYS
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF BRIDGES

SUPERSTRUCTURE DETAILS
BRIDGE NO. LAK-1-0775
S.R.1 UNDER GARFIELD ROAD
LAKE COUNTY
STA. 52 + 82.16

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
FLN			TFB		