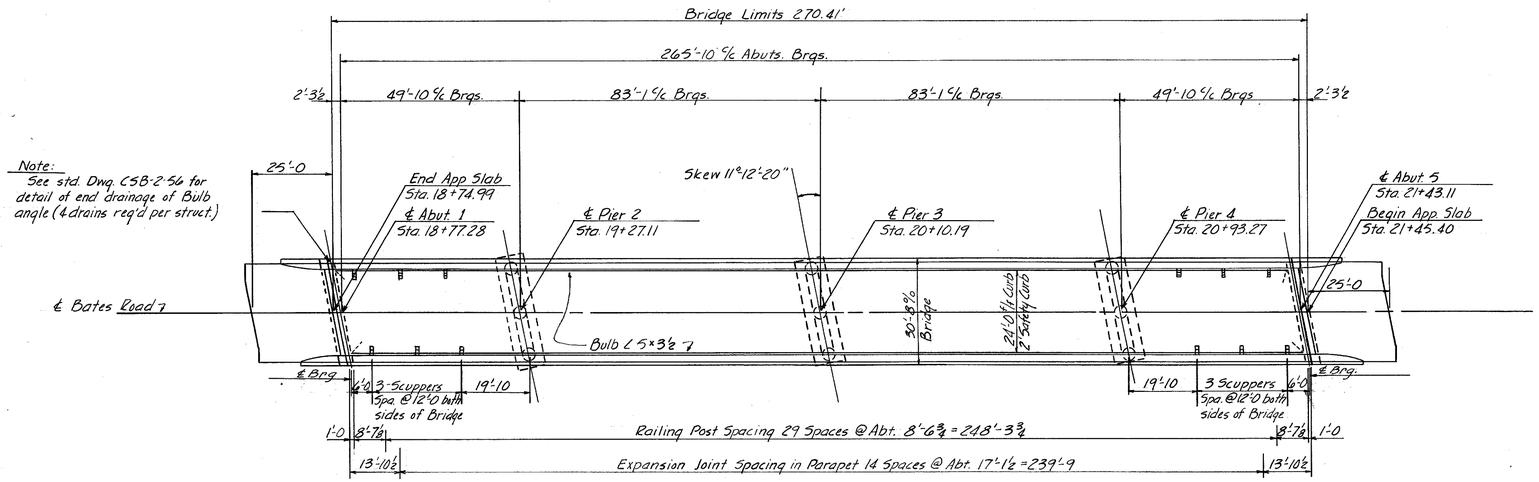
FED. RD DIVISION	STATE	FED. AID PROJECT	FISCAL YEAR
2	OHIO	I-1103(15)	

132
176

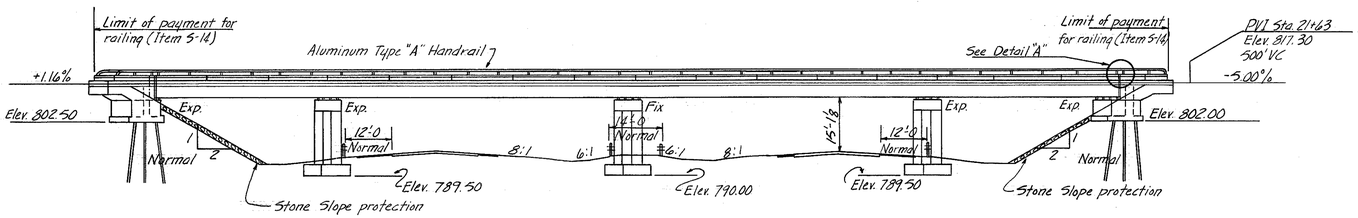
LAKE COUNTY
LAK I-26.51
ASHTABULA COUNTY
ATB -1-0.00



Note
Railing posts, expansion joints, and scupper spa. Symmetrical by rotation of the plan

GENERAL PLAN

Note
See std. dwg. AR-1-57 for handrail and parapet expansion joint details



ELEVATION

ESTIMATED QUANTITIES

Item	Total	Unit	Description	Super struct.	Abut. 1	Abut 5	Pier 2	Pier 3	Pier 4	Gen'l
E-2	409	Cu. Yd.	Excavation for Structures		88	92	74	81	74	
E-2	L.S.	L.S.	Cofferdams, Cribs, Sheeting							L.S.
5-1	240	Cu. Yd.	Class "C" Concrete (Superstructure)	240						
5-1	60	Cu. Yd.	Class "C" Concrete (Pier caps & Cols)				20	20	20	
5-1	74	Cu. Yd.	Class "C" Concrete (Abutment above Footings)		37	37				
5-1	151	Cu. Yd.	Class "E" Concrete (Pier & Abutment Footings)		25	25	33	35	33	
5-4	102,269	Lbs.	Reinforcing Steel	67,007	4815	4815	←	25,632	→	
5-7	231,000	Lbs.	Structural Steel	231,000						
5-8	231,000	Lbs.	Field Painting of Structural Steel	231,000						
5-14	587	Lin. ft.	Railing (Aluminum Type A and Concrete Parapet)	535	26	26				
5-16	L.S.	L.S.	First Test Pile							L.S.
5-18	950	Lin. ft.	12" Cast-in-Place Concrete Pile		420	530				
5-29	20	Cu. Yd.	Porous Backfill		10	10				
5-29	98	Cu. Yd.	Stone Slope Protection (1'-0 thick)							98

GENERAL NOTES

REFERENCE shall be made to Standard Drawings CSB-2-56 sheets 2 of 6 and 3 of 6 dated, December 3, 1956 RB 1-55 dated March 1, 1955, AR-1-57, dated April 9, 1957, and supplemental specifications No. S-114, revised August 1, 1957.

DESIGN SPECIFICATIONS This Structure conforms to the requirements of "Design Specifications for Highway Structures" of the State of Ohio, Department of Highways, dated October 1, 1951, together with revisions thereof dated July 15, 1952, April 1, 1954 and February 1, 1955.

CONCRETE Superstructure, columns, cops and abutments above footings shall be "Class C Concrete" Abutment footings and Pier footings shall be "Class E Concrete."

DECK CONSTRUCTION PROCEDURE In order to facilitate water curing of the deck slab, the placing of concrete shall progress up grade. The slab may be placed in sections between transverse construction joints which are normal to the center line of the bridge and are located near the center of any span.

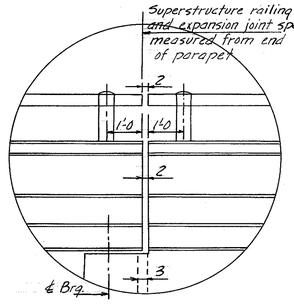
EXCAVATION QUANTITIES shall be as outlined in Sec. E-2 and includes the removal of material from the finished grade down or original ground down, whichever is the lower in elevation. Abutment excavation quantities includes the removal of till material between the surface of embankment and the bottom of the Abut. Backfilling will be included in the cost of excavation.

STONE SLOPE PROTECTION extending from face of Abutment to invert of ditch shall be provided at all abutments. Protection shall be minimum of 12 inches thick, measured perpendicular to the slope, and shall be extended 3 ft. past outside limits of structure. Stone material shall meet the requirements of Section S-29.02 for porous drains.

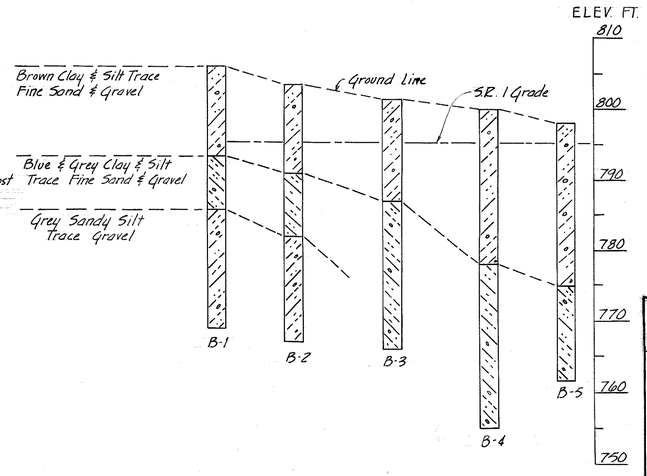
WELDING All welding shall be "Class A" unless otherwise shown. Any weld shown as field weld may be made in the shop at the option of the contractor.

WELDED STEEL The steel for all rolled beams and moment plates with a thickness greater than 1" shall conform to ASTM Designation A-373. All other structural steel shall conform to either ASTM A-7 (per Sec. M-7.4(a) of the Construction and Material Specifications) or to A-373.

BAR SIZE for reinforcing steel is indicated in the bar mark. The first digit indicates bar size number. For example, 5601 is a No. 6 size bar and A1014 is a No. 10 size.



DETAIL "A"



SOIL PROFILE

CHARLES L. BARBER AND ASSOCIATES
HARRY BALKE ENGINEERS
TOLEDO, OHIO

GENERAL PLAN & ELEVATION

BRIDGE Nº LAK-1-2696
SR 1 UNDER BATES RD.
LAKE CO. SR 1
STA. 42+78.69

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
LTT	RS	RGW	RGE	ACA	8/28/57	