

MICROFILMED
MAR 3 0 1969

FED. RD. DIVISION	STATE	PROJECT	279 313
2	OHIO		

LAKE COUNTY
LAK-2-16.49

GENERAL NOTES

REFERENCE shall be made to Standard Drawings CSB-2-56, sheets No. 2 and No. 3 of 6 revised 2-2-59, RB-1-55 revised 2-2-59, AR-1-57 revised 4-2-62, and to Supplemental Specifications S-101 dated 7-12-62, and S-307 dated 8-23-60.

DESIGN SPECIFICATIONS: This structure conforms to the requirements of "Design Specifications for Highway Structures" of the State of Ohio Department of Highways, dated 9-1-57, together with current revisions thereof.

ALL STRUCTURAL STEEL: ASTM A 36

DESIGN LOADING: CF 400 (57)

BASIC UNIT WORKING STRESSES:
 Concrete, Class C: 1,333 p.s.i.
 Concrete, Class E: 1,133 p.s.i.
 Structural Steel, ASTM A 36 (except piling): 20,000 p.s.i.
 Reinforcing Steel, ASTM A 15, A 16, A 18: 20,000 p.s.i.
 A 160 Deformed, Intermediate or Hard Grade: 20,000 p.s.i.
 Spiral Reinforcement, Plain, Structural Grade: 18,000 p.s.i.

PLATE GIRDER ERECTION: The Contractor shall submit to the Director, for approval, three prints showing proposed erection procedures for the plate girders.

PILES shall be driven to a minimum bearing capacity of 35 tons per pile for the abutments and 40 tons per pile for the piers.

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.

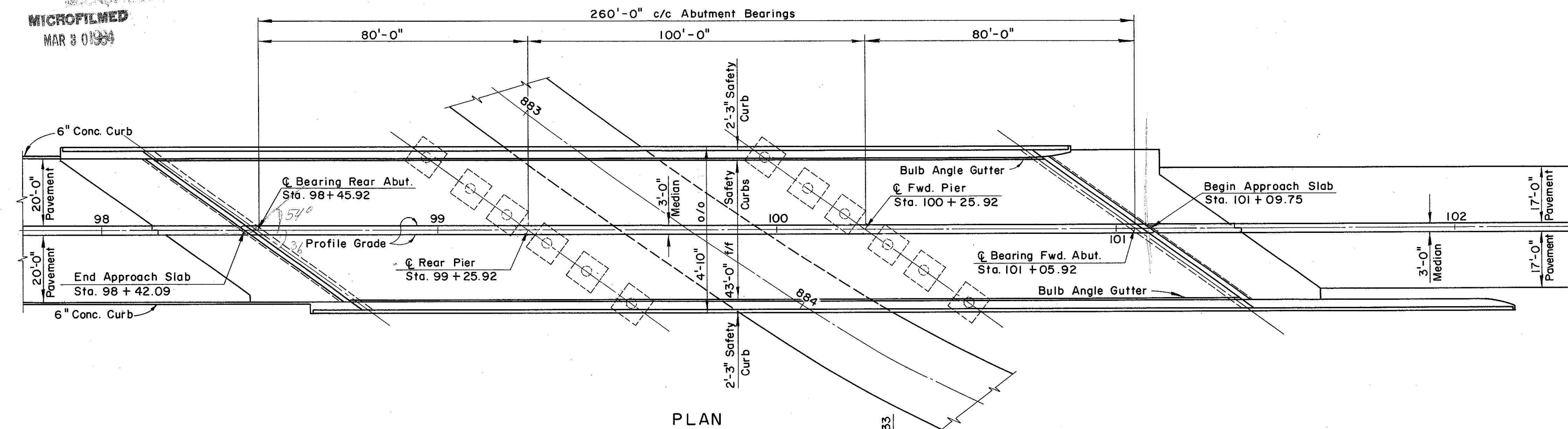
CONCRETE DECK PLACING: In order to facilitate water curing of the concrete of the deck slab, the placing of concrete shall progress up grade. The slab may be placed in sections, between transverse construction joints which are parallel to transverse reinforcing steel and are located near the center of any span.

SURFACE FINISH OF CONCRETE: The requirements of Section S-1,22, Rubbed Finish, shall apply to, (a) The entire superstructure except the top and bottom surfaces of safety curbs and roadways, (b) The entire surface of piers and abutments except bridge seats, backwalls and the face of spill-through abutments between outside girders.

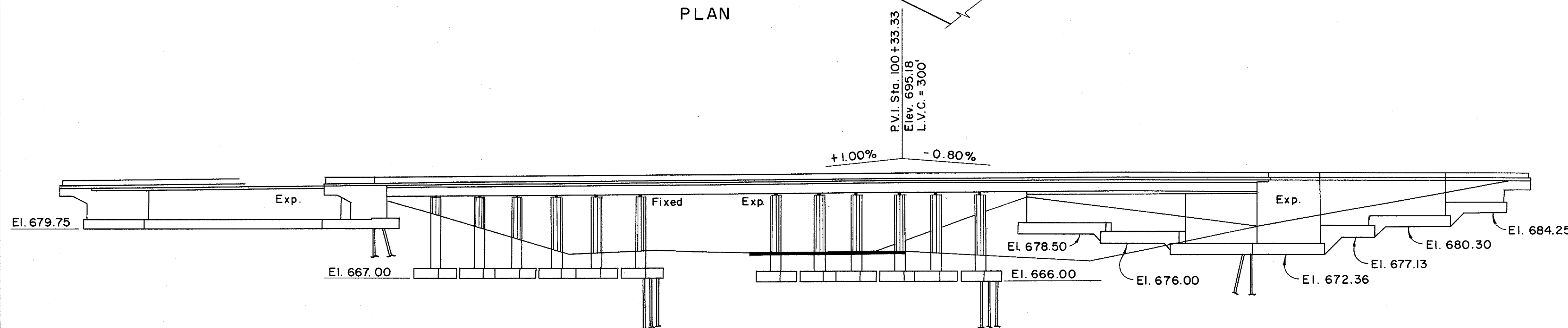
MACHINE FINISH: The concrete bridge deck shall be finished by the use of a finishing machine.

UTILITY LINES: All expense involved in relocating the affected utility lines shall be borne by the owners. The Contractor and Owners are requested to cooperate by arranging their work in such a manner that inconvenience to either will be held to a minimum.

HIGH STRENGTH STEEL BOLTS: See note Sheet 227.



PLAN



ELEVATION

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	SUPER.	ABUT'S.	PIERS	GEN'L.
E- 2	892	Cu. Yds.	Unclassified Excavation		722	170	
S- 1	428	Cu. Yds.	Class C Concrete, Superstructure	428			
S- 1	57	Cu. Yds.	Class C Concrete, Pier columns			57	
S- 1	284	Cu. Yds.	Class E Concrete, Abut. above footings		284		
S- 1	310	Cu. Yds.	Class E Concrete, Footings		241	69	
S- 3	44	Lin. Ft.	Premoulded Sealing Strip		44		
S- 4	171,347	Lbs.	Reinforcing Steel	110,312	41,675	19,360	
S- 7	409,600	Lbs.	Structural Steel	409,600			
S- 8	409,600	Lbs.	Field Painting of Structural Steel	409,600			
S- 14	655.87	Lin. Ft.	Railing (Aluminum Railing & Type A Posts w/Conc. Parapet)	525.96	129.91		
S- 16	Lump	Sum	First Test Pile				Lump
S- 18	6,110	Lin. Ft.	12" ϕ Cast-in-Place Reinforced Conc. Piles		3,710	2,400	
S- 29	142	Cu. Yds.	Porous Backfill		142		
S- 29	16	Each	Scuppers, Including Supports	16			
S- 29	77.5	Lin. Ft.	6" Perforated Bit. Coated C.M.P. M 6.4 (h)		77.5		
S-101	428	Each	Water-reducing, Set-retarding Admixtures	428			
I- 10	790	Sq. Yds.	Crushed Aggregate Slope Protection				790

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

GENERAL PLAN
BRIDGE NO. LAK-2-1862
RELOC. S.R. 2 UNDER RECONSTR. U.S. 20
LAKE COUNTY
STA. 99+73.07

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
	M.J.F.	R.E.B.	L.L.D. M.J.F.	G.S.W. M.C.P.		