

MICROFILMED
APR 5 1989

FED. RD. DIVISION	STATE	PROJECT	380 413
2	OHIO	ACI-1103(27)	

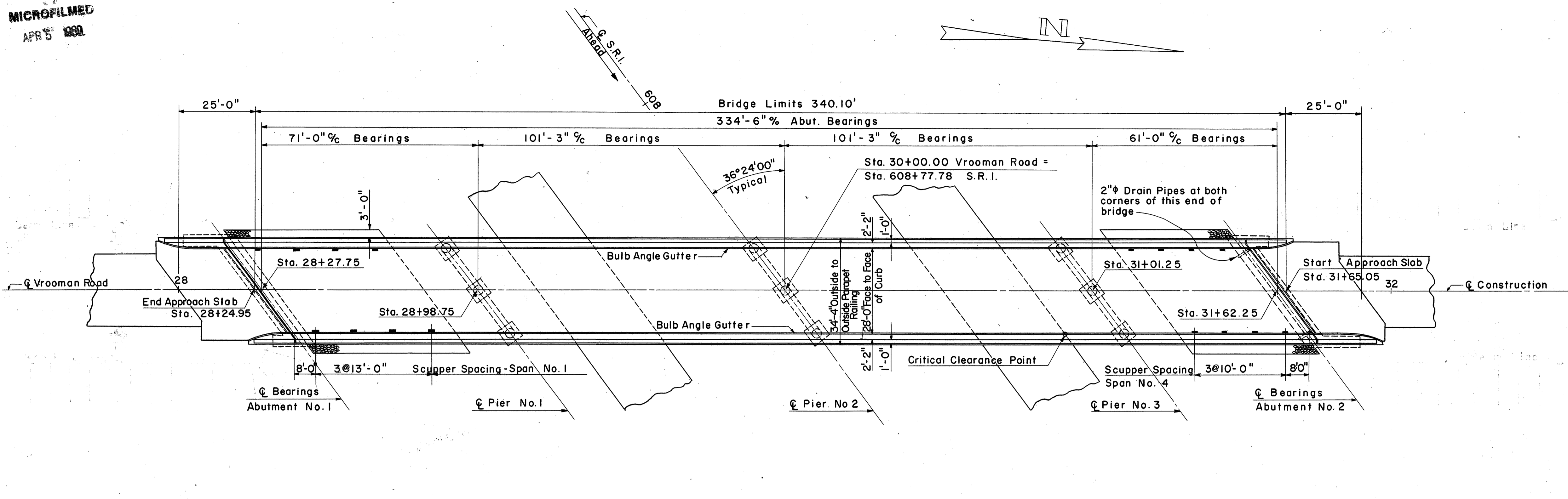
LAKE COUNTY
SEC. LAK-1-16.55

GENERAL NOTES

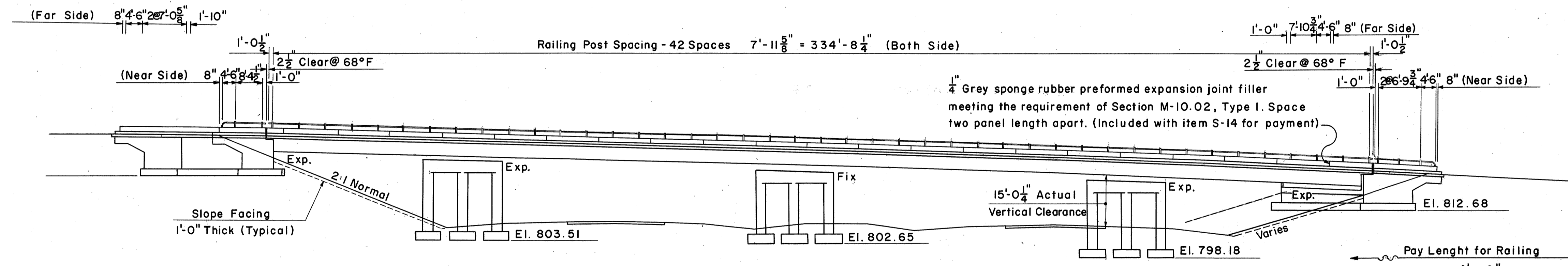
Design Specification: This structure conforms to the requirements of "Design Specifications for Highway Structures" of the State of Ohio, Department of Highways, dated 9-1-57, together with revisions thereof dated 2-21-58.
Reference shall be made to Standard Drawings RB-1-55, dated 3-1-55, CSB-2-56, sheets 2 & 3 of 6, Revised 3-1-58, & AR-1-57, Revised 3-1-58, also to supplemental specifications S-114 Revised 8-1-57.
Bar Size is indicated in the bar mark. The first digit where three digits are used, and the first two digits where four are used, indicate the bar size number. For example, A700 is a No.7 size bar & A1014 is a No.10 size.
Slope Facing (S-29.05), one foot thick, shall be provided as indicated on the General Plan.

Piles shall be driven to firm contact with shale. If the length of penetration is approximately equal to the depth to shale according to the bridge foundation investigation report, the firm contact shall be considered as attained when the capacity according to the formula in Sec. S-18.05 is not less than the following value for a pile hammer of the indicated energy rating:
44 tons per pile using a 7000 ft. lb. hammer
37 tons per pile using a 11000 ft. lb. hammer
35 tons per pile using a 15000 ft. lb. or greater hammer

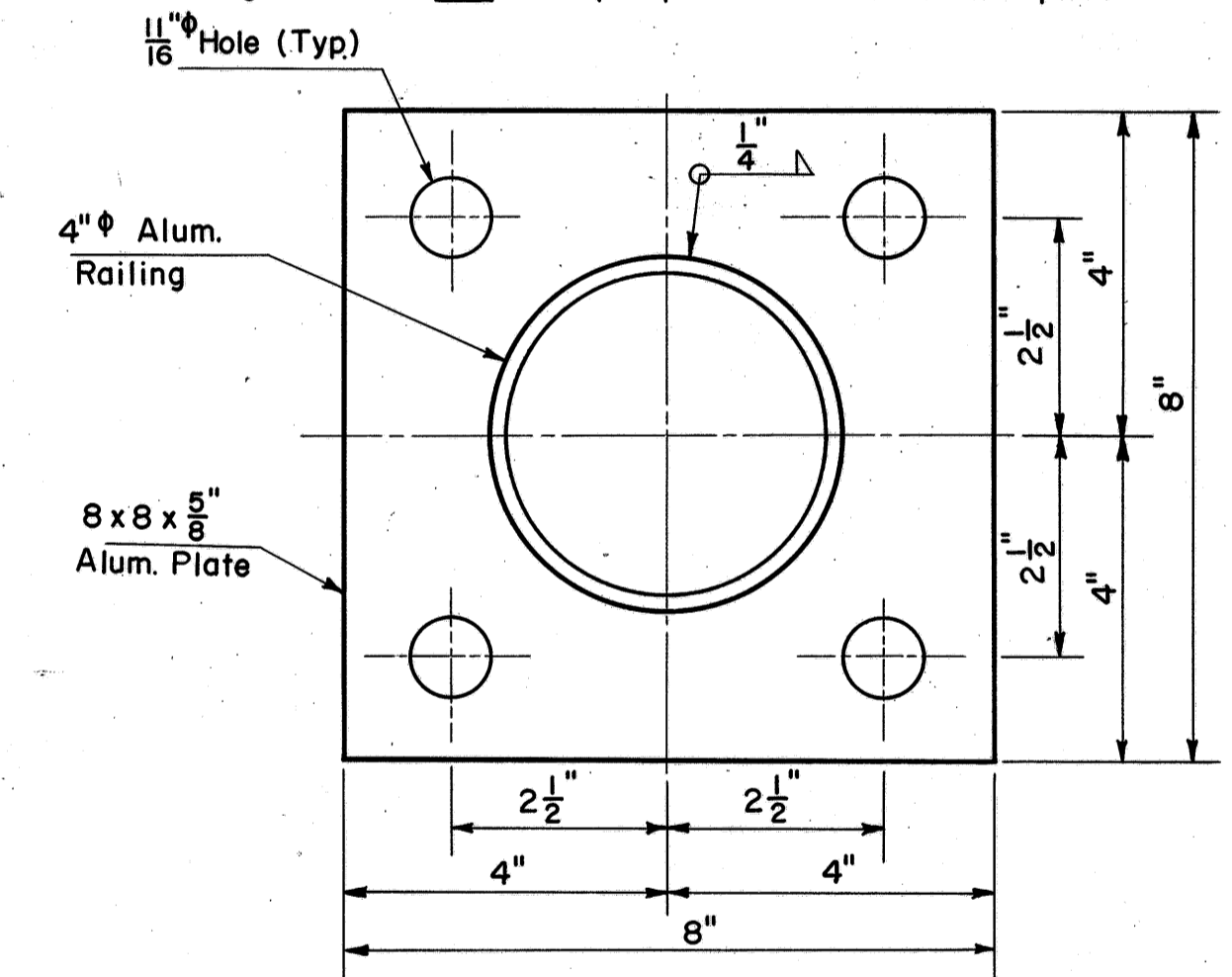
If the energy rating of the hammer is between the ratings as shown above, the required formula capacity shall be determined by interpolation. The design load is 25 tons per pile for the abutment piles.



GENERAL PLAN

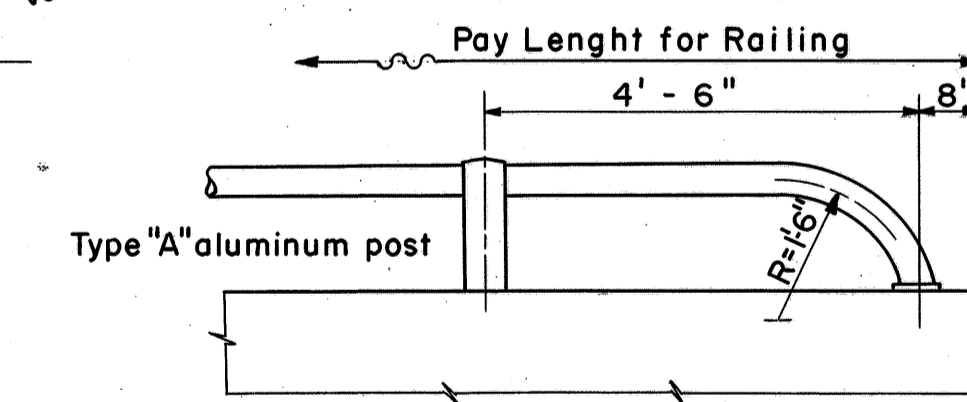


ELEVATION



ANCHOR PLATE FOR ABUTMENT RAILING
4-REQUIRED

Include with Item S-14 for payment.



END OF RAILING DETAIL

REPLACEMENT BARS				
MARK	NO.	SIZE	LENGTH	TYPE
RE400	1	4	5'-3"	STR.
RE500	1	5	5'-7"	STR.
RE600	3	6	5'-11"	STR.
RE700	2	7	6'-3"	STR.
RE1000	1	10	7'-2"	STR.
RE1110	1	11	7'-6"	STR.
RE404	1	4	5'-3"	3/8" SPIRAL

REPLACEMENT BARS:
If reinforced bars are fabricated from stock which has previously been tested and approved by the Ohio Highway Testing Laboratory, test sample as provided in Section S-4.02 need not be furnished and replacement bars will not be required.

ESTIMATED QUANTITIES							
ITEM	TOTAL	UNIT	DESCRIPTION	SUPERSTR	ABUTS.	PIERS	GENERAL
E-2	248	Cu. Yds.	Unclassified Excavation		248		
E-2	76	Cu. Yds.	SHALE Excavation			76	
S-1	358	Cu. Yds.	Class "C" Concrete, Superstructure	358			
S-1'	74	Cu. Yds.	Class "C" Concrete, Pier Caps & Columns			74	
S-1	109	Cu. Yds.	Class "E" Concrete, Abutments above Footings		109		
S-1	129	Cu. Yds.	Class "E" Concrete, Footings		82	47	
S-							
S-4	143,602	Lbs.	Reinforcing Steel	105,000	15,804	22,798	
S-7	348,221	Lbs.	Structural Steel	348,221			
S-8	348,221	Lbs.	Painting of Structural Steel	348,221			
S-14	742	Lin. Ft.	Railing (Aluminum Rail & Supports & Concrete Parapets)				
S-16	Lump	Sum	First Test Pile		Lump		
S-18	648	Lin. Ft.	Steel Piles (I2 BP53)		648		
S-29	32	Cu. Yds.	Porous Backfill		32		
S-29	105	Cu. Yds.	Slope Facing (S-29.05 Type)		105		

P.V.I. Station 29+50
Elevation 836+45
V.C. 600'
M.O. 3.52'

CURVE DATA

SEC. C-33 FED. AID PROJ. NO. ACI-1103(27)

PREPARED BY
CAPITOL ENGINEERING ASSOCIATES, DILLSBURG, PA.
FOR

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF BRIDGES

GENERAL PLAN & ELEVATION
BRIDGE NO. LAK-1-1822
S.R.I. UNDER VROOMAN ROAD
LAKE COUNTY
STA. 608+77.78

DESIGNED	DRAWN	TRACED	CHECKED	REVISED	DATE	REVISED
HK	BJ		MM			