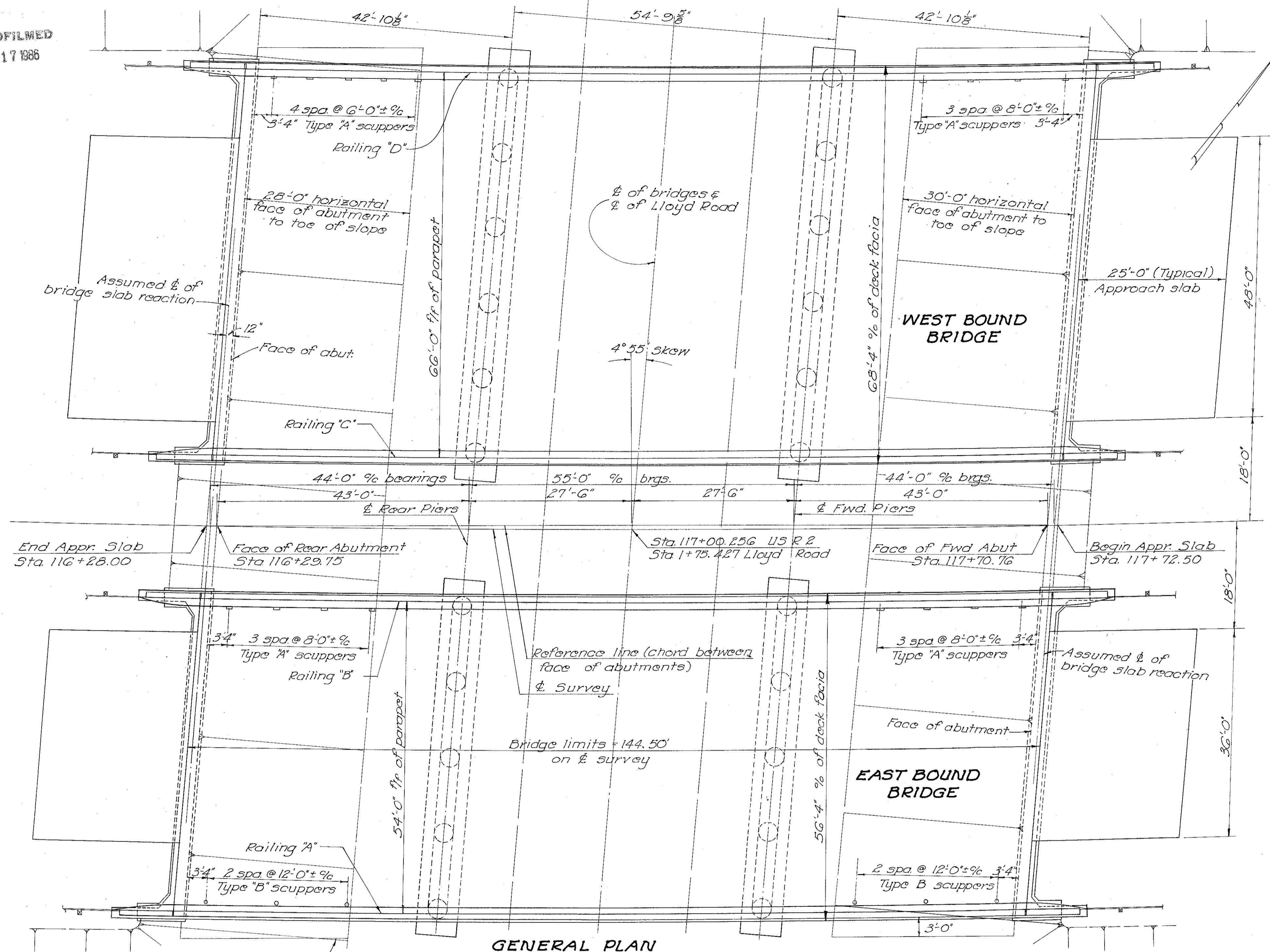


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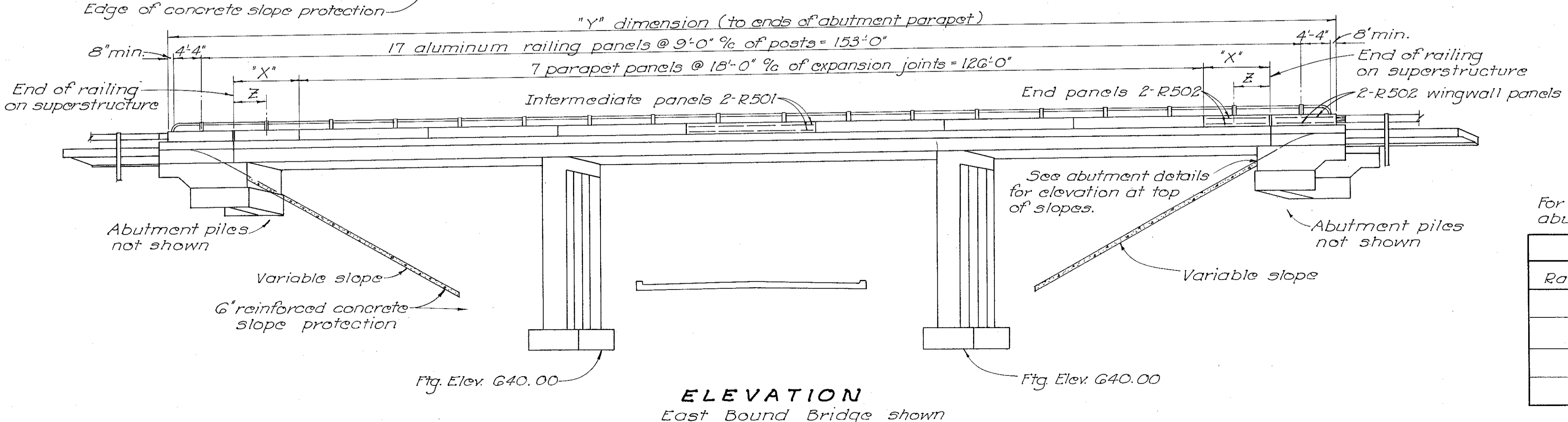
FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

317
394

LAK-2-0.00



GENERAL PLAN



ELEVATION
East Bound Bridge shown

GENERAL NOTES

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.

FOUNDATION BEARING PRESSURE: Pier footings are designed for a maximum bearing pressure of 3 tons per sq. ft.

PROCEDURE: The embankment shall be placed and compacted up to the finished spill-thru slope and to the level of the subgrade for a distance of 200 feet back of the abutments, after which excavation shall be made for the abutments and piers.

ABUTMENT 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. 518.05 is not less than the following value for a pile hammer of the indicated energy rating:
 50 tons per pile using a 11000 ft. lb. hammer
 43 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 35 tons per pile.

EXCAVATION QUANTITY includes the removal of fill material required for abutment construction.

PIER FOOTINGS shall extend a minimum of 3' into shale or to the elevation shown, whichever is lower.

MACHINE FINISH: The concrete bridge deck shall be finished as specified in the proposal note "Machine Finishing of Bridge Deck Slabs." This shall apply to the following bridges:
 LAK-2-0031 L&R
 LAK-2-0105 L&R
 LAK-2-0181 L&R
 LAK-2-0255 L&R and
 LAK-2-0363 L&R

For additional railing details see abutment wingwall details sheet 319

DIMENSIONS ON RAILING			
Railing	X	Y	Z
A	9'-1"	163.00	4'-8 1/2"
B	9'-2 1/2"	163.01	4'-8 1/2"
C	9'-2 3/4"	163.03	4'-8 3/4"
D	9'-2 3/4"	163.04	4'-8 3/4"

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

**GENERAL PLAN & ELEVATION
GENERAL NOTES
BRIDGE NO. LAK-2-0031 L&R
OVER LLOYD ROAD
LAKE CO. STA. 116+28.00
117+72.50**

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
A.J.	J.G.	R.H.D.	C.P.D.	B.F.G.	2-18-59	6-11-59