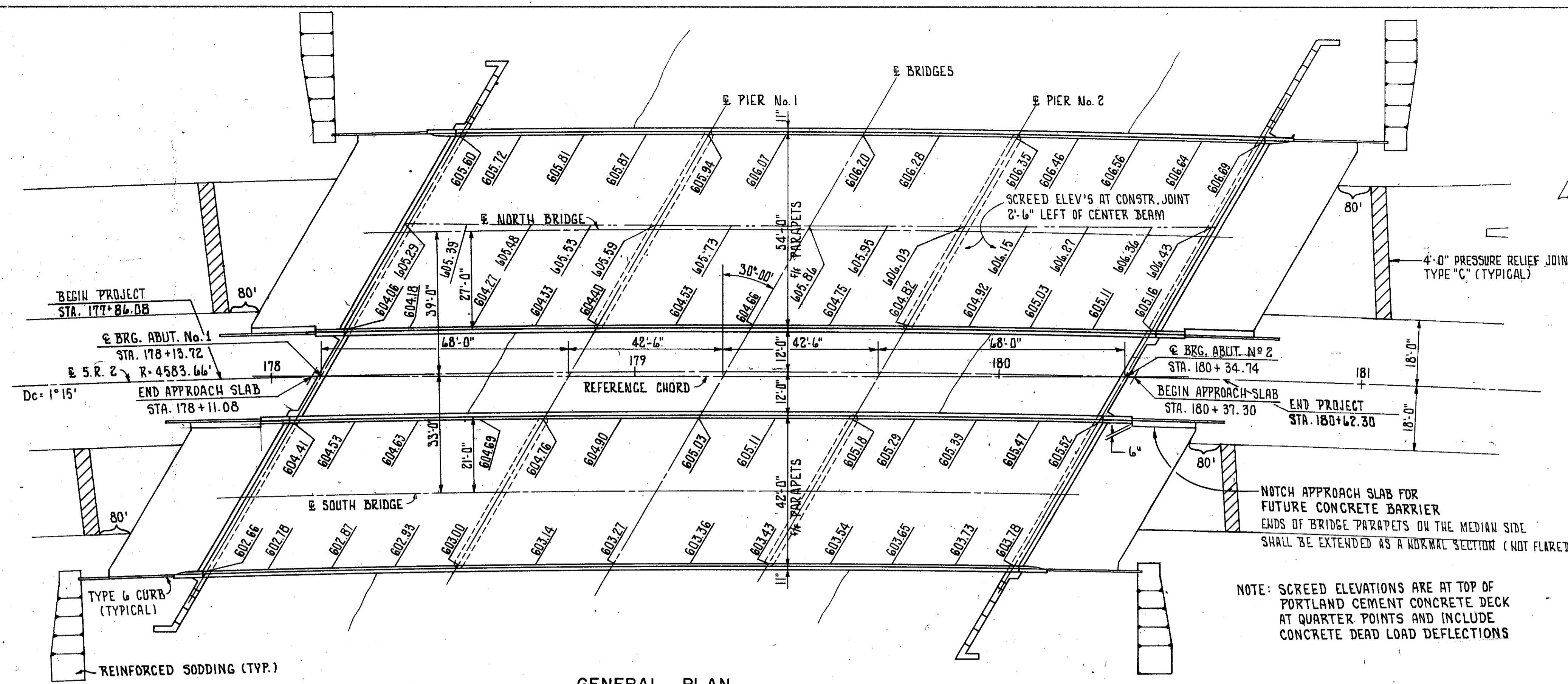
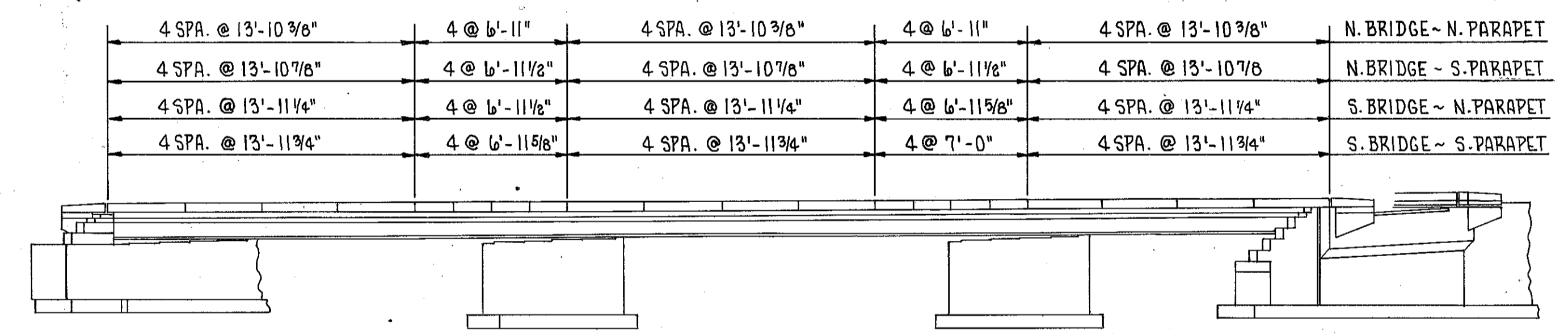


LAKE COUNTY  
LAK-2-530



GENERAL PLAN



ELEVATION

GENERAL NOTES

REFERENCE SHALL BE MADE TO STANDARD DRAWINGS AS-1-72 DATED 6-30-72 SHEET 1 OF 2, SD-1-69 DATED 6-12-69, 836 DATE 3-12-75 AND BR-1 DATED 5-23-79.

DESIGN SPECIFICATIONS: THE DECK REPLACEMENT AND ABUTMENT REPAIRS FOR THIS STRUCTURE CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS INCLUDING THE 1978 INTERIM SPECIFICATIONS AND THE OHIO "SUPPLEMENT" TO THESE SPECIFICATIONS.

DESIGN DATA: BEAM LOADING CF-2000; SLAB LOADING HS 20-44 CONCRETE CLASS S, UNIT STRESS 1200 PSI FOR SUPERSTRUCTURE CLASS C, UNIT STRESS 1333 PSI FOR SUBSTRUCTURE STRUCTURAL STEEL, ASTM A36, UNIT STRESS 20,000 PSI (NEW STEEL) ASTM A7, UNIT STRESS 18,000 PSI (EXISTING STEEL)

REINFORCING STEEL, ASTM A615, A616 OR A617 UNIT STRESS 20,000 PSI

BEAM SEAT ELEVATIONS: EXISTING BEAM SEAT ELEVATIONS HAVE BEEN COPIED FROM THE DESIGN DRAWINGS. THE CONTRACTOR SHALL CHECK THE ACTUAL FIELD ELEVATIONS WHEN THE EXISTING BRIDGE DECK IS REMOVED. ANY SIGNIFICANT DISCREPANCY ( $\pm 1/2$ " MAX.) SHALL BE REPORTED TO THE ENGINEER BEFORE ANY WORK IS CONTINUED. PLANS OF THE EXISTING STRUCTURE MAY BE STUDIED IN THE LAKE COUNTY ENGINEER'S OFFICE AT 550 BLACKBROOK ROAD, PAINESVILLE, OHIO 44077.

DECK PROTECTION METHOD: EPOXY COATED REINFORCING STEEL, TOP MAT ONLY, AND LATEX MODIFIED CONCRETE OVERLAY.

ATTACHMENT OF GUARDRAIL TO CONCRETE PARAPETS: CONCRETE INSERT ANCHOR ASSEMBLIES PER STANDARD CONSTRUCTION DRAWINGS GR-1 AND GR-3 SHALL BE PLACED DURING PARAPET CONSTRUCTION. (ASSEMBLY TYPE "A")

ITEM 845 - LATEX MODIFIED CONCRETE OVERLAY (1/4" THICK) AS PER PLAN. SUPPLEMENTAL SPECIFICATION 845 SHALL BE MODIFIED AS FOLLOWS: THE BRIDGE DECK SHALL BE OVERLAID WITH 1/4" OF LATEX MODIFIED CONCRETE. SCARIFICATION OF THE 511 DECK CONCRETE SHALL NOT BE DONE. ALL REFERENCE TO BRIDGE DECK REPAIR AS WELL AS TO ITEM 845 LATEX MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS) AND ITEM 845 FULL-DEPTH REPAIR DO NOT APPLY.

PORTIONS OF STRUCTURE TO BE REMOVED: REMOVE BRIDGE DECK, CURBS, PARAPETS, ALUMINUM RAILING, BULB ANGLES, SCUPPERS AND SUPPORTS, END DAM ANGLES, ABUTMENT BACKWALLS, BEVEL FILL PLATES, GUSSET PLATES AND UPPER PORTION OF END CROSSFRAME ANGLES. ALL STRUCTURAL STEEL WORK TO CONFORM TO ITEM 513.

THE ELASTOMERIC JOINT IS TO BE INSTALLED DURING PHASE "B" FOR THE TOTAL LENGTH OF THE ABUTMENT IN ORDER TO AVOID VULCANIZING THE SEAL. THE JOINT HARDWARE CAN BE INSTALLED DURING PHASE "A" TO HAVE IT READY FOR INSTALLATION OF THE SEAL DURING PHASE "B".

EXISTING ALUMINUM RAILING AND SUPPORTS SHALL BE SALVAGED FOR THE LAKE COUNTY ENGINEER.

NOTE: SCREED ELEVATIONS ARE AT TOP OF PORTLAND CEMENT CONCRETE DECK AT QUARTER POINTS AND INCLUDE CONCRETE DEAD LOAD DEFLECTIONS

PARAPET JOINT SPACING

1/4" PREFORMED EXPANSION JOINT FILLER AT JOINTS INCLUDED WITH SUPERSTRUCTURE CONCRETE FOR PAYMENT.

STA. 178+00  
ELEV. 604.27

+0.50%

(ORIGINAL DESIGN PROFILE GRADE PLUS 1/2")

PROFILE GRADE

ITEM	LUMP	UNIT	DESCRIPTION	NORTH BRIDGE		SOUTH BRIDGE							
				SUPERST.	ABUTS.	SUPERST.	ABUTS.						
202	LUMP	LUMP	PORTIONS OF STRUCTURE REMOVED	LUMP	LUMP	LUMP	LUMP						
503	61	C.Y.	EXCAVATION		34		27						
503	LUMP	LUMP	COFFER DAMS, CRIBS AND SHEETING		LUMP		LUMP						
509	112,407	LB.	REINFORCING STEEL	58,116	6,985	41,476	5,831						
511	110	C.Y.	CLASS "C" CONCRETE, ABUTMENT		59		51						
511	690	C.Y.	CLASS "S" CONCRETE, SUPERSTRUCTURE	381	309								
513	39,000	LB.	STRUCTURAL STEEL (AISC CERTIFICATION NOT REQUIRED)	31,300		7,700							
513	4,329	EA.	WELDED STUD SHEAR CONNECTORS	2,331		1,998							
514	LUMP	LUMP	FIELD PAINTING OF EXISTING STEEL - COMPLETE COAT FINISH	LUMP		LUMP							
514	LUMP	LUMP	FIELD PAINTING OF EXISTING STEEL - SURFACE PREPARATION	LUMP		LUMP							
514	LUMP	LUMP	FIELD PAINTING OF EXISTING STEEL - SPOT PRIME	LUMP		LUMP							
514	LUMP	LUMP	FIELD PAINTING OF EXISTING STEEL - COMPLETE COAT PRIME	LUMP		LUMP							
514	39,000	LB.	FIELD PAINTING OF NEW STRUCTURAL STEEL, SYSTEM "B"	31,300		7,700							
516	227	L.F.	EXPANSION JOINT, AS PER PLAN		127		100						
518	53	C.Y.	POROUS BACKFILL		30		23						
518	12	EA.	SCUPPERS, INCLUDING SUPPORTS	7		5							
845	2,307	S.Y.	LATEX MODIFIED CONCRETE OVERLAY (1/4"), (SEE PROPOSAL NOTE)	1,238		1,009							
SPEC.	98,490	LB.	EPOXY COATED REINFORCING STEEL (SEE PROPOSAL NOTE)	57,763		40,727							
SPEC.	LUMP	LUMP	JACKING AND SUPPORTING STRUCTURES AND RESETTING BEARINGS	LUMP		LUMP							
SPEC.	18	EA.	DRILLED SHAFT		10		8						

ADT 51,000 (1981)

FRANKLIN CONSULTANTS INC.		1/8
Consulting Engineers		
COLUMBUS, OHIO		
<b>GENERAL PLAN AND ELEVATION</b>		
BRIDGE No. LAK-2-0530		
S.R. 2 OVER CHAGRIN RIVER		
LAKE COUNTY		S.R. 2
DESIGNED	DRAWN	TRACED
SM	HM	GKS
CHECKED	REVIEWED	DATE
HM	JF	1/6/80
REVISED		