

MICROFILMED
OCT 16 1978
REPRODUCTION

STATE OF OHIO DEPARTMENT OF HIGHWAYS WYA-30N-1321 WYANDOT COUNTY VILLAGE OF UPPER SANDUSKY CRANE TOWNSHIP

FED RD DIVISION	STATE	PROJECT	FUNDS
2	OHIO	STATE	STAT.

WYANDOT COUNTY
WYA-30N-13.21

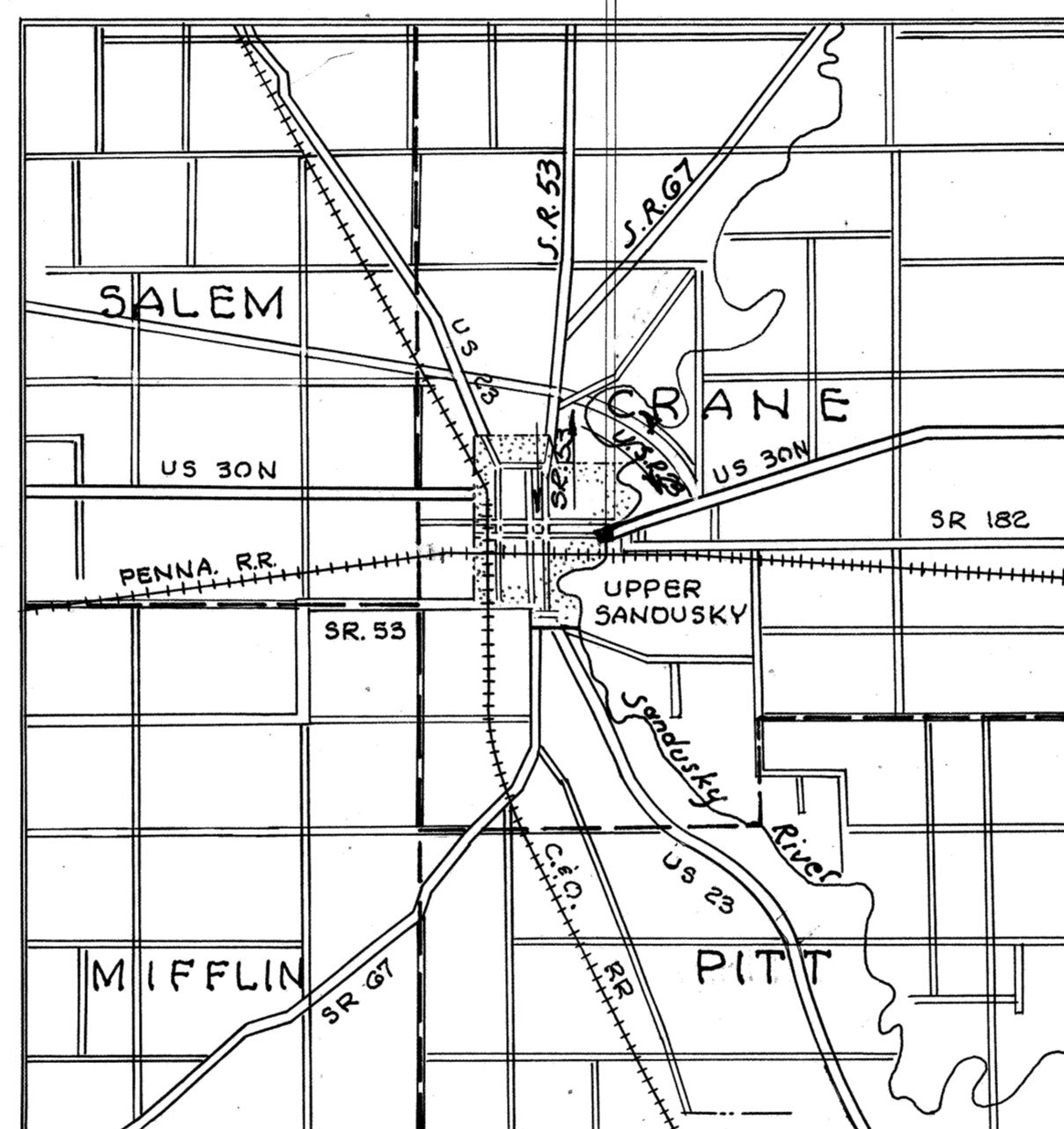
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BEGIN PROJECT STA. 697+01.15 END PROJECT STA. 699+86.85
BEGIN WORK STA. 697+01.15 END WORK STA. 699+86.85

CONVENTIONAL SIGNS

COUNTY LINE	-----
TOWNSHIP LINE	-----
CORPORATION LINE	-----
CENTERLINE	-----
POLE LINE	-----
GUARD RAIL	-----
RIGHT-OF-WAY	-----

Telephone	⊕	Power	⊕
New	•••••	Old	•••••
	R/W		



Delivery Point Upper Sandusky, Ohio
Average Haul 0.50 Miles
Scale 1" = 1 Mile

The standard specifications of the State of Ohio, Department of Highways, dated Jan. 1, 1963, including changes and supplemental specifications listed in the proposal shall govern this improvement.

The right-of-way for this improvement will be provided by the State of Ohio.

I hereby approve these plans and declare that the making of this improvement will require the closing to traffic of the highway and that detours will be provided as indicated on the plans.

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LINE DATA

BEGIN PROJECT & WORK	STA 697+01.15
END MUNICIPAL	STA 698+98.50
NET LENGTH MUNICIPAL	197.35 Lin. Ft. or 0.037 MI.
BEGIN RURAL	STA. 698+98.50
END PROJECT & WORK	STA. 699+86.85
NET LENGTH RURAL	88.35 Lin. Ft. or 0.017 MI.

NET LENGTH OF PROJECT = 285.70 LIN. FT. OR 0.054 MILES
NET LENGTH OF WORK = 285.70 LIN. FT. OR 0.054 MILES

LOCATION MAP

Portion to be Improved	—————
State & Federal Highways	—————
Detour	—————
Other Roads	—————

STANDARD DRAWINGS

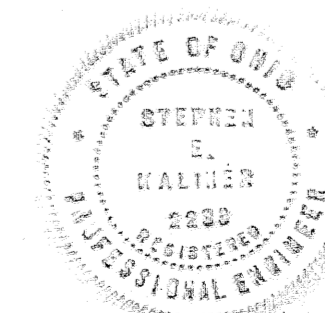
DRAWING	DATE	DRAWING	DATE
AR-1-57	4-26-62	G-7-07	4-1-64

SUPPLEMENTAL SPECIFICATIONS

M-100-11	1-26-61		
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FILE NO	WYANDOT COUNTY-WYA-30N-13.21
Date of Letting	1965
Contract No	

- Approved Wm. R. Ryan
Date 4-22-65 Division Deputy Director
- Approved C. H. Altrates
Date 5-14-65 Engineer of Bridges
- Approved R. V. Ricketts
Date 5-17-65 Engineer of Location & Design
- Approved P. E. Shultz
Date 5-17-65 Deputy Director of Design & Construction
- Approved _____
Date _____ Deputy Director of Right-of-Way
- Approved J. W. Ujilman
Date 5-17-65 Deputy Director of Planning & Programming
- Approved _____
Date _____ First Assistant Director
- Approved P. E. Mashek
Date 5/18/65 Director of Highways



KOHLI & KALIHNER ENGINEERS
LIMA, OHIO

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, together with current revisions thereof.

REFERENCE shall be made to Standard Drawing AR-1-57, revised 4-2-62.

CONSTRUCTION PROCEDURE: The Contractor shall give ample notice to the Ohio Power Company to remove the light standards and wiring from the bridge prior to beginning of construction. The United States Weather Bureau shall be advised of the starting date of construction in order that they can remove the stream gage device from the existing structure. Portions of the existing structure shall be removed as shown on the plans and as hereinafter defined. The proposed construction shall then be accomplished, consisting of walks, parapets, railings, anchor bolts for light standards, conduit, replacement of scuppers, and resurfacing. Following the completion of the above described construction, the existing weep holes in the arch barrels shall be thoroughly cleaned, and all debris removed from the channel for a distance of 100' upstream.

REMOVAL OF PORTIONS OF THE EXISTING STRUCTURE: The existing sidewalk, curb, and railing shall be removed to a neat line which shall be set by The Engineer. Special care shall be taken to avoid damage to the reinforcing steel in the counterforts and in the curb wall. Reinforcing steel which is bent during the removal operation shall be, insofar as possible, restored to its original shape. Where coping is removed, thus leaving a vertical exposed surface, the said vertical surface shall have depressions filled with 1:3 cement mortar and shall be given a ground finish.

The United States Weather Bureau shall remove the stream gage device at no expense to the Contractor. Attachment of the device to the proposed structure, at the option of the Weather Bureau, shall be accomplished by and at the expense of the weather Bureau.

The Ohio Power Company shall remove overhead wiring and light standards from the bridge upon notification by the Contractor. The standards shall be reconditioned and repainted prior to re-erection. Wiring and re-erection shall be done by and at the expense of the Ohio Power Company with anchor bolts and conduit installed by the Contractor.

The above two items of work shall be performed by the agencies involved without cost to the Contractor.

Existing scuppers shall be removed to a line approximately at the level of the top of the concrete base. Rough or burred edges of the cut line shall be ground smooth to receive the proposed scupper.

The above work performed by the Contractor shall be included in the lump sum price bid for Item 5-22, Removal of Portions of the Existing Structure.

CLEARING UPSTREAM CHANNEL: All debris between the tops of the river banks shall be removed for a distance of 100 feet upstream from the south face of the bridge. Fallen timber and trash shall be hauled away from the site and disposed of. Payment for upstream channel clearing shall be included in the lump sum price bid for Item 5-22, Removal of Portions of the Existing Structure.

CLEANING EXISTING WEEPHOLES: The existing 4-inch pipe weepholes from the spandrel fill through the arch barrel shall be thoroughly ramed out with a sharp-ended bar, and an effort shall be made to loosen the compacted spandrel fill at the inner terminus of the weepholes. Payment for cleaning weepholes shall be included in the lump sum price bid for Item 5-22, Removal of Portions of Existing Structure.

PARAPET REINFORCEMENT: The horizontal reinforcing bars in the parapet, P5a and P5b, shall be paid for under Item 5-14, Railing.

SCUPPERS shall be fabricated as shown on the plans with structural steel plates and bars conforming with Sec. M-74(b) of the Construction and Material Specifications. Welding shall be in accordance with Sec. 5-7.22 of the said specifications. Scuppers shall be accurately secured to the line and grade set by the Engineer and shall then be seated in a bed of 1:3 Portland Cement Grout to the top of the existing pavement. Scuppers shall be painted in accordance with Sections 5-8.04 and 5-8.05 of the said specifications. Payment for this work is included with Item 5-29, Drainage of Structures.

DESIGN DATA:
Concrete, Class C, basic unit stress 1,333 psi
Reinforcing Steel- ASTM A-15, A-16, A160, Deformed, Intermediate or hard grade, basic unit stress, 20,000 psi.

FIELD OFFICE: The Contractor shall, in accordance with Sec 5-0.0, provide for the exclusive use of the State's employees, a suitable field office having a minimum of 150 Sq. Ft. of floor space. The Contractor shall have a telephone installed and maintained in the field office during the life of the project.

DETOUR LIMITATION: The length of time of detour shall be held to a minimum, but in no case shall it exceed 100 calendar days.

ELECTRICAL EQUIPMENT: The Contractor shall furnish and install the conduit, junction boxes, and light pole anchor bolts for the bridge lighting system as shown on the drawings and as specified below. Payment shall be lump sum bid for Electrical Equipment.

CONDUIT encased in structure concrete: shall be 2" rigid steel, hot-dipped galvanized inside and outside and finished with an enamel protective coating in conformance with A.S.A. Specification C-8.01 and A.S.T.M. Specification A-53.

CONDUIT direct buried in earth from 3'-0" above ground on the terminal pole to the junction box at the southwest corner of the bridge and under paved areas from this box to the junction box at the northwest corner of the bridge shall conform to the above specifications except the chemical and physical properties of the metal shall conform to supplemental specification M-106.11 for alloy steel pipe.

CONDUIT under paved areas may be installed by boring, jacking, or cutting the pavement at the option of the Contractor and as approved by the Engineer.

TRENCHING, BACKFILLING, COMPACTING in accordance with Sec. I-107 Type 4 and boring, jacking or cutting and restoration of paved areas shall be included in the lump sum bid for Electrical Equipment.

JUNCTION BOXES shall be 12"x6"x6" weatherproof cast iron hot-dipped galvanized, T & B Co., O-Z Co., Spring City Co., or approved equal.

ANCHOR BOLTS: shall be steel conforming to ASTM A-107 Grades 1035, 1040 or 1045 special quality with minimum yield strength of 46,000 p.s.i., min. tensile strength of 67,000 p.s.i. galvanize threaded ends 1" to 4" beyond threads in accordance with A.S.T.M.-A-153. Include with lump sum bid for Electrical Equipment for payment.

FED. RD. DIVISION	STATE	PROJECT	FUNDS
2	OHIO		STATE

2
4

WYANDOT COUNTY
WYA-30N-13.21 MICROFILMED
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GENERAL SUMMARY

ITEM	QUANTITY	UNIT	DESCRIPTION		
STRUCTURES OVER 20 FT. SPAN					
				<i>Rural</i>	<i>Municipal</i>
T-35	36	Cu. Yd.	Asphaltic Concrete Surface Course Type C (85-100)	14	22
T-30	108	Gal.	Bituminous Tack Coat Sec. M-5.5, MS-2 or RS-1 or Sec. M-5.2, RC-1 or RC-2 as per Sec. T-30.02	42	66
S-1	130	Cu. Yd.	Concrete for Structures, Class C	35	95
S-4	28,839	Lb.	Reinforcing Steel	7758	21081
S-14	508.33	Lin. Ft.	Railing (Type C Alum. rail & supports and Concrete Parapet, as per plan)	139.80	368.53
S-25	Lump	Lump	Electrical Equipment	100%	
S-29	Lump	Lump	Drainage of Structures, as per plan	50%	50%
S-22	Lump	Lump	Removal of Portions of Existing Structure, as per plan	10%	90%
I-3	Lump	Lump	Maintaining Traffic	20%	80%

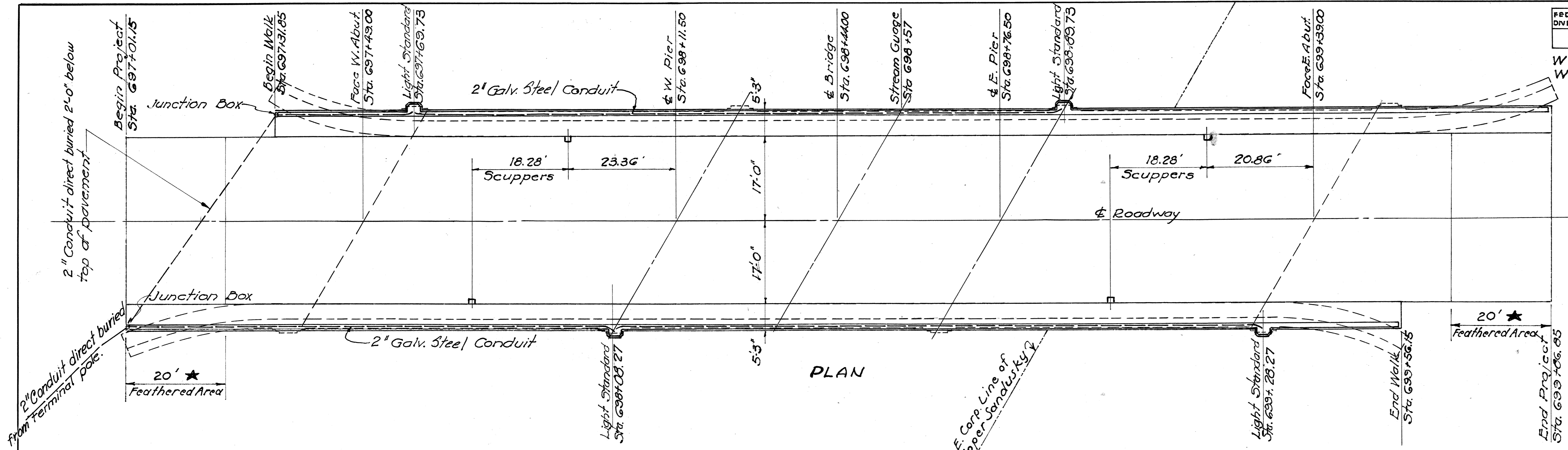
KOHLI AND KALIHAR ENGINEERS LIMA, OHIO						
GENERAL NOTES & GENERAL SUMMARY						
BRIDGE NO WYA-30N-13.21 OVER SANDUSKY RIVER						
WYANDOT COUNTY						STA. 697+01.15 699+86.85
DESIGNED S.E.K.	DRAWN S.E.K.	TRACED S.E.K.	CHECKED	REVIEWED	DATE	REVISED

FED. RD. DIVISION	STATE	PROJECT	FUNDS
2	OHIO		STATE

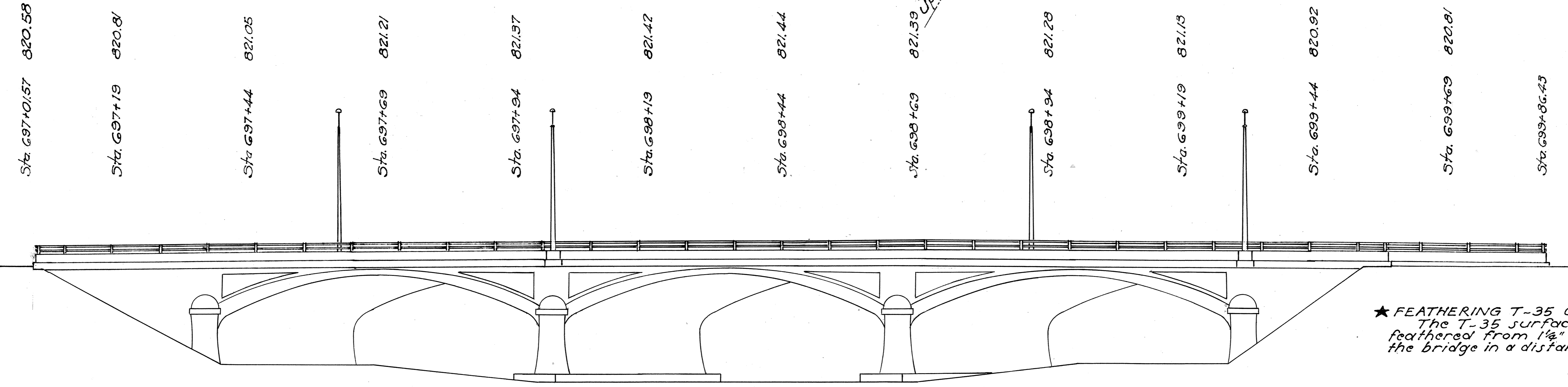
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WYANDOT COUNTY
WYA-30N-1321

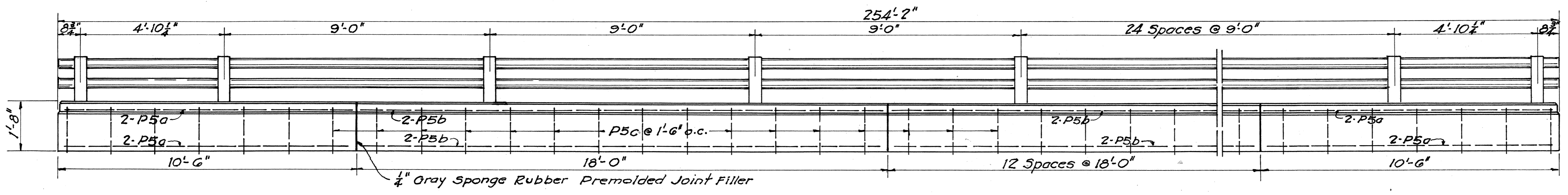
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PLAN



SOUTH ELEVATION



PARAPET & RAILING DETAILS

KOHLI AND KALHER
ENGINEERS LIMA, OHIO

**GENERAL PLAN AND
ELEVATION
BRIDGE NO WYA-30N-1321
OVER SANDUSKY RIVER**

WYANDOT COUNTY STA. 697+01.15
699+86.85

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	REVISED
S.E.K.	S.E.K.	S.E.K.			1-5-65 4-16-65

