

DETOUR MAP

STATE OF OHIO DEPARTMENT OF HIGHWAYS

LOR-162-(0.98) (2.78-3.10)

LORAIN COUNTY ROCHESTER TOWNSHIP

S-5(6)

FED. NO.	STATE	PROJECT	
2	OHIO	S-5(6)	
LORAIN COUNTY LOR-162-(0.98) (2.78-3.10)			

MICROFILMED

OCT 2 1987

GROUND PHOTO LAB

No PID
C No. 650617

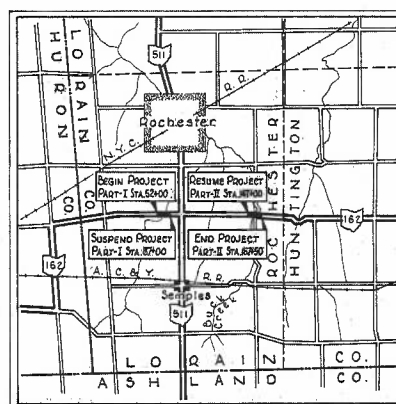
1965 Specifications

CONVENTIONAL SIGNS

County Line	-----
Township Line	-----
Section Line	-----
Corporation Line	-----
Fence Line	-----
Center Line	-----
Pole Line (Telephone & Power)	-----
Railroad	-----
Guard Rail (Existing & Proposed)	-----
Property Line	-----
Right Of Way	-----

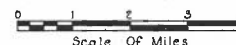
INDEX OF SHEETS

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Delivery Point: Rochester Average Haul: 2.0 Mi. (PART I)
2.9 Mi. (PART II)

LOCATION MAP



Portion To Be Improved
State Highways
County Or Township Roads

SCALES

Plan - - - - - 1" = 50'
Profile Horizontal - - - - - 1" = 50'
Profile Vertical - - - - - 1" = 5'
Cross Sections - - - - - 1" = 5'
Other Sheets As Shown

LINE DATA

PROJECT	WORK
Begin 52+00	51+00
Suspend 87+00	88+00
No Additions or Deductions	
Net Length (Part-I)	3700.00 Lin. Ft.
0.662 Miles	0.700 Miles
PART-II	
Resume 147+00	146+00
End 167+50	168+50
Gross Length 2050.00 Lin. Ft.	2250.00 Lin. Ft.
Add for Twp. Road No. 30 730.00 Lin. Ft.	
Net Length (Part-II)	2980.00 Lin. Ft.
0.388 Miles	0.564 Miles
Total Net Length	6680.00 Lin. Ft.
For Parts I & II	1.265 Miles
1.051 Miles	

SUPPLEMENTAL PRINTS OF STANDARD CONSTRUCTION DRAWINGS

BP-3	6-1-65	FACI-2	6-1-65	AS-1-54	7-5-62
BP-5	6-1-65	HW-E	6-1-65	CS-1-54	7-16-56
MC-1	6-1-65	I-1	6-1-65	A-1-54	12-1-54
MC-3	6-1-65	GR-1	6-1-65	P-1-54	2-2-59
MC-4	6-1-65	GR-2A	6-1-65		
MC-1	6-1-65	L-1	6-1-65		

SUPPLEMENTAL SPECIFICATIONS

BOB	7-14-65
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DEPARTMENT OF COMMERCE BUREAU OF PUBLIC ROADS

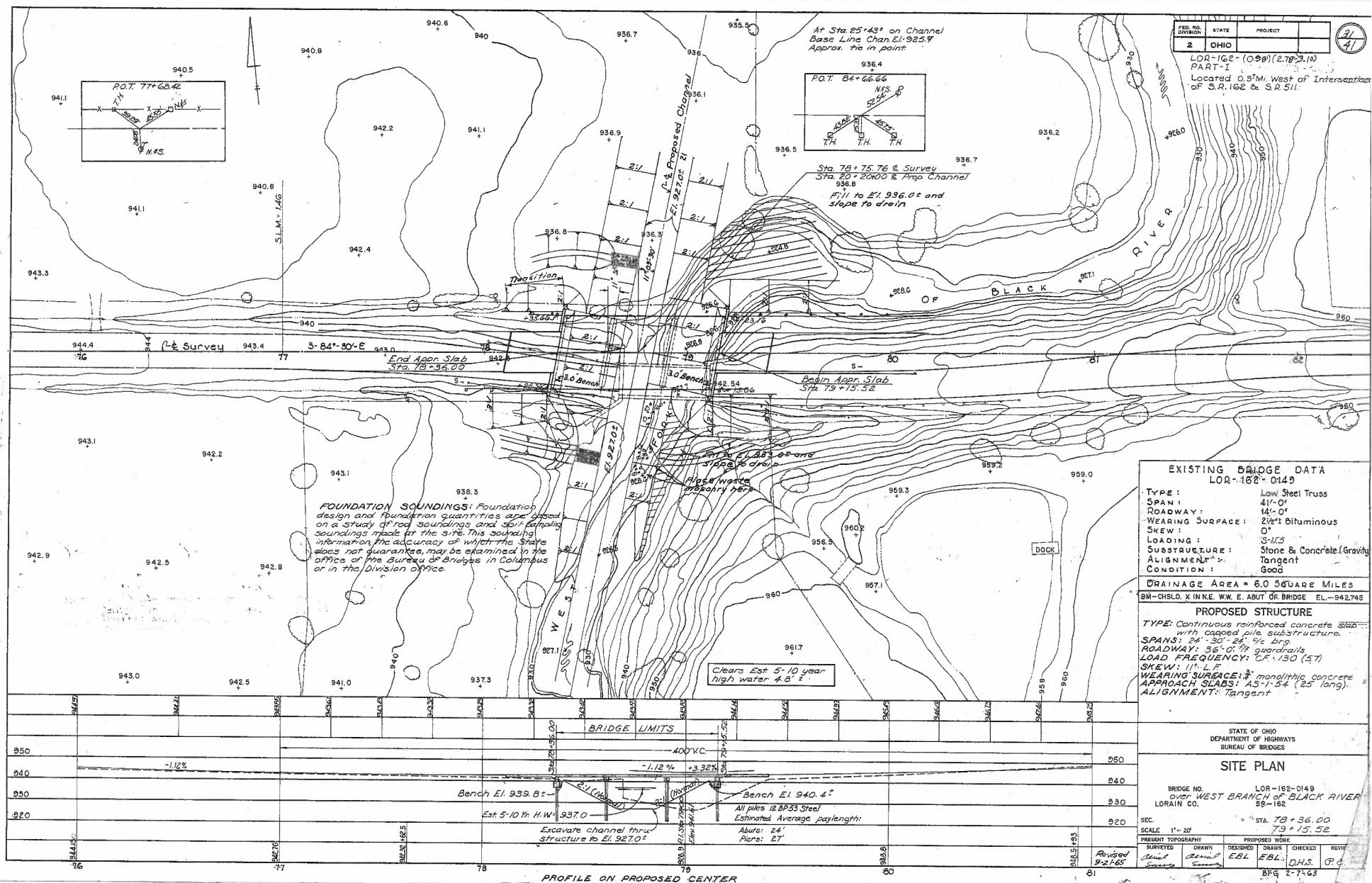
Approved:

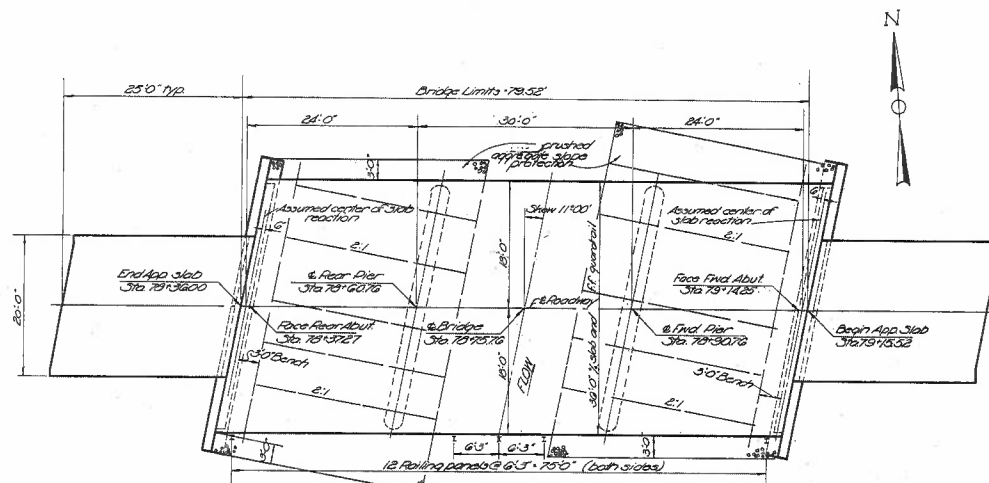
Division Engineer

Date

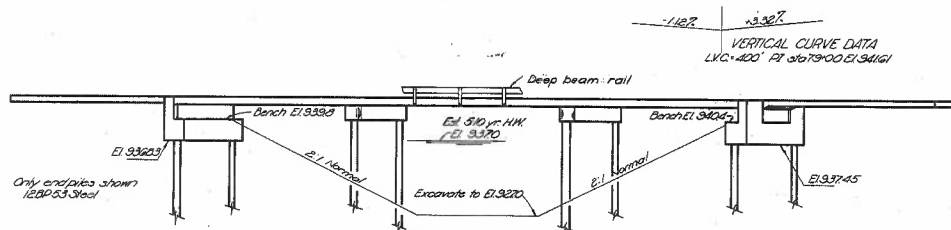
SEP 21 1965

File LORAIN COUNTY LOR-162-(0.98) (2.78-3.10)
No. Date of Letting
226-4 Contract No.





GENERAL PLAN



ELEVATION

GENERAL NOTES

REFERENCE: shall be made to Standard Drawings G3-1-54 rev. 7-18-56, A1-54 Rev. 12-1-54 and P1-54 rev. 2-25-59 and to Supplemental Specification No. 308 dated 7-14-63.

EXISTING STRUCTURE: When no longer needed to maintain traffic the existing structure shall be removed. Suitable waste material shall be placed as bank protection at the direction of the Engineer.

PILES: shall be driven to firm contact with rock. If the length of penetration is approximately equal to the depth to rock according to the bridge foundation investigation report, the firm contact shall be considered as attained when the capacity according to the formula in Sec. 3-18.03 is not less than the following value for a pile hammer of the indicated energy rating:

- for the abutment piles
 - 40 tons per pile using a 7000 ft. lb. hammer
 - 35 tons per pile using an 11000 ft. lb. hammer
 - 30 tons per pile using a 13000 ft. lb. or greater hammer
- for the pier piles
 - 45 tons per pile using a 7000 ft. lb. hammer
 - 40 tons per pile using an 11000 ft. lb. hammer
 - 35 tons per pile using a 13000 ft. lb. or greater hammer

DESIGN DATA

Design Loading: CF 130, (57).
 Concrete Class C basic unit stress 1,333 p.s.i.
 Concrete Class E basic unit stress 1,193 p.s.i.
 Reinforcing Steel - ASTM A15, A16, A60, Deformed, Intermediate or Hard Grade, basic unit stress 20,000 p.s.i. Except, spiral reinforcement may be plain, structural grade with basic unit stress of 18,000 p.s.i.

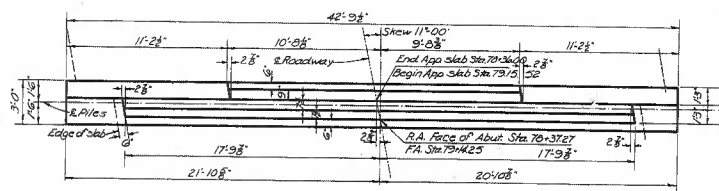
If the energy rating of the hammer is between the ratings as shown above, the required capacity shall be determined by interpolation. The design load is 25 tons per pile for the abutment piles and 25 tons per pile for the pier piles.

PIER PILE ENCASMENT as shown on Std. Dwg. P1-54 is not required. The pointing of the piles shall extend to low water elevation or, if the proposed surface of the ground is above low water, it shall extend to at least one foot below the proposed surface of the ground.

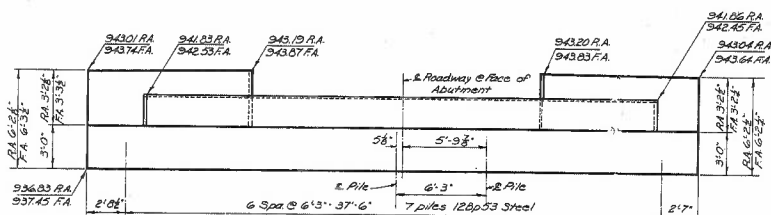
CONCRETE COVER shall be 2" from the top roadway surface to the top of the reinforcing steel. This includes 1" monolithic wearing surface.

ESTIMATED QUANTITIES

Item	Total	Unit	Description	Super	Piers	Abut	Gen'l
101	50	Cu yds.	Unclassified excavation			30	
111	133	Cu yds.	Class C concrete superstructure and pier caps	120	13		
112	43	Cu yds.	Class E concrete abutments			43	
108	35,325	Lbs.	Reinforcing steel	27,463	3,034	4,828	
117	15,904	lin. ft.	Rolling deep beam piers with steel postholes	15,904			
1005	Lump	Sum	First last pile			Lump	
107	770	lin. ft.	Steel piles 12 BP 53		430	340	
202	Lump	Sum	Existing structure removed			Lump	
518	15	Cu yds.	Parous backfill			15	
107	325	Sq yds.	Crushed aggregate slope protection			325	
108	133	Each	Water radiation, self-releasing admixture	120	13		

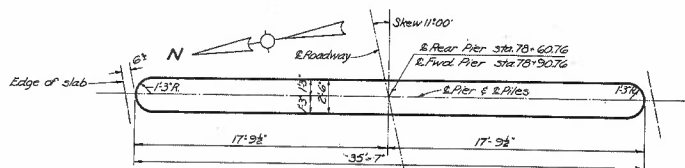


ABUTMENT PLAN

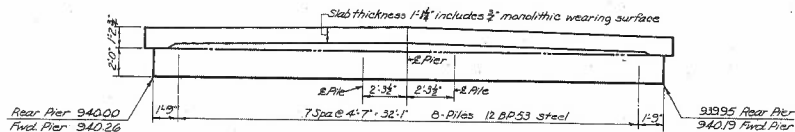


R.A. denotes Rear Abutment
F.A. denotes Forward Abutment

ABUTMENT ELEVATION



PIER PLAN



PIER ELEVATION

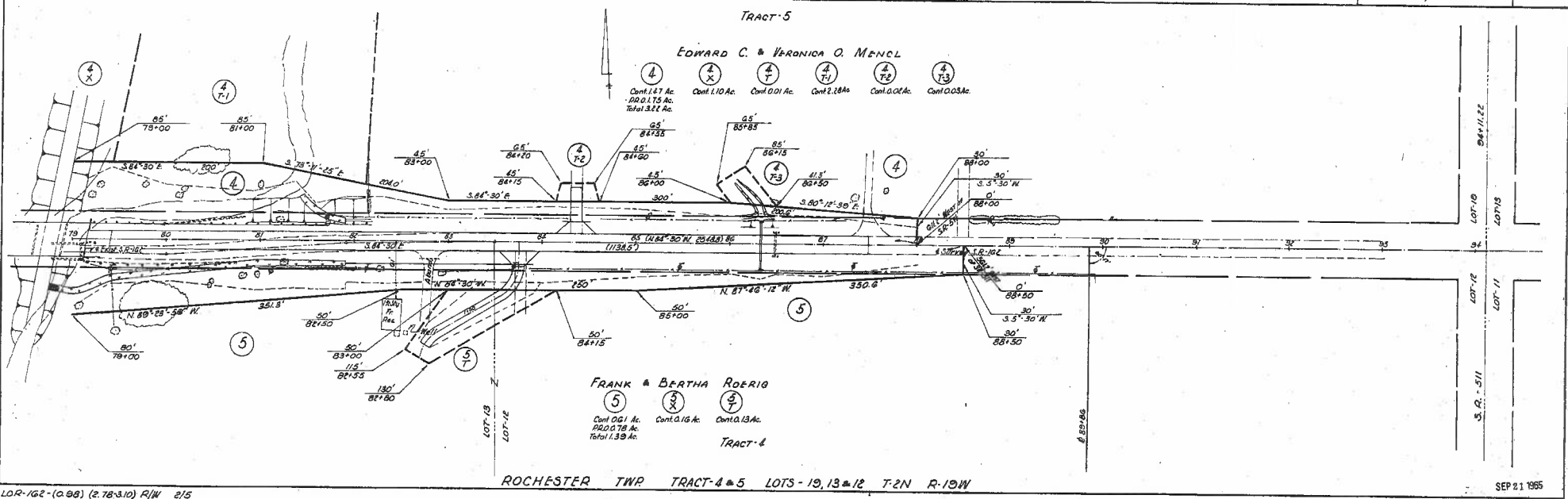
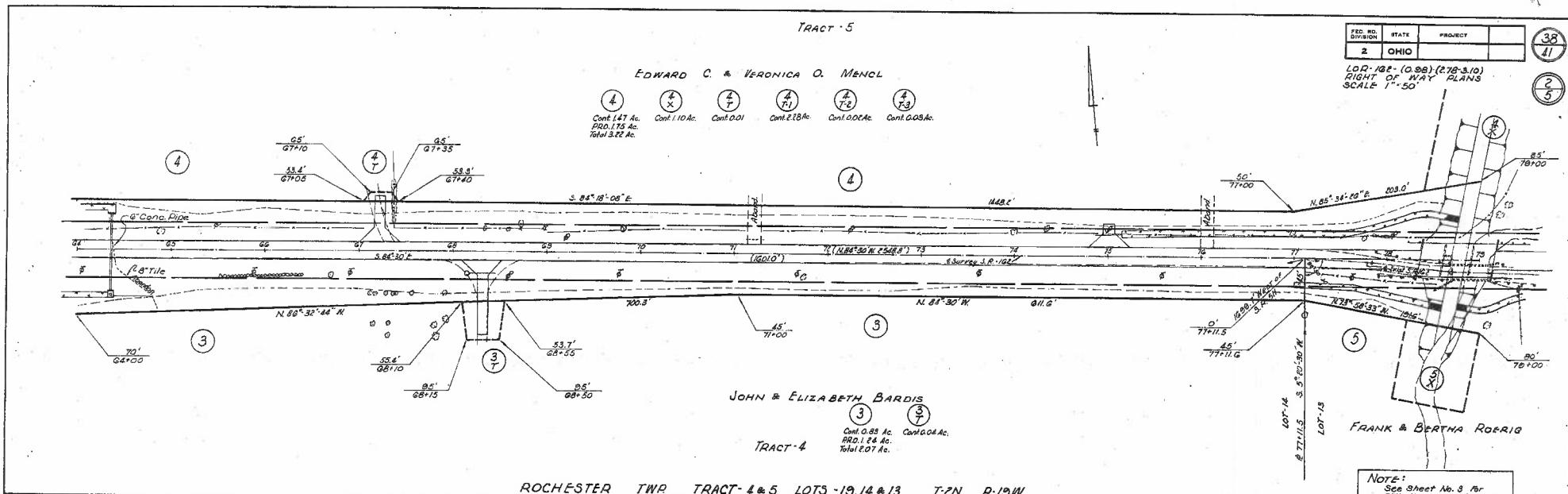
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FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

LOR-162-(0.98)(2.78-310)

ABUTMENT AND PIER DETAILS &
REINFORCING STEEL LIST
BRIDGE No. LOR-162-0149
OVER W BRANCH OF BLACK RIVER
LORAIN COUNTY

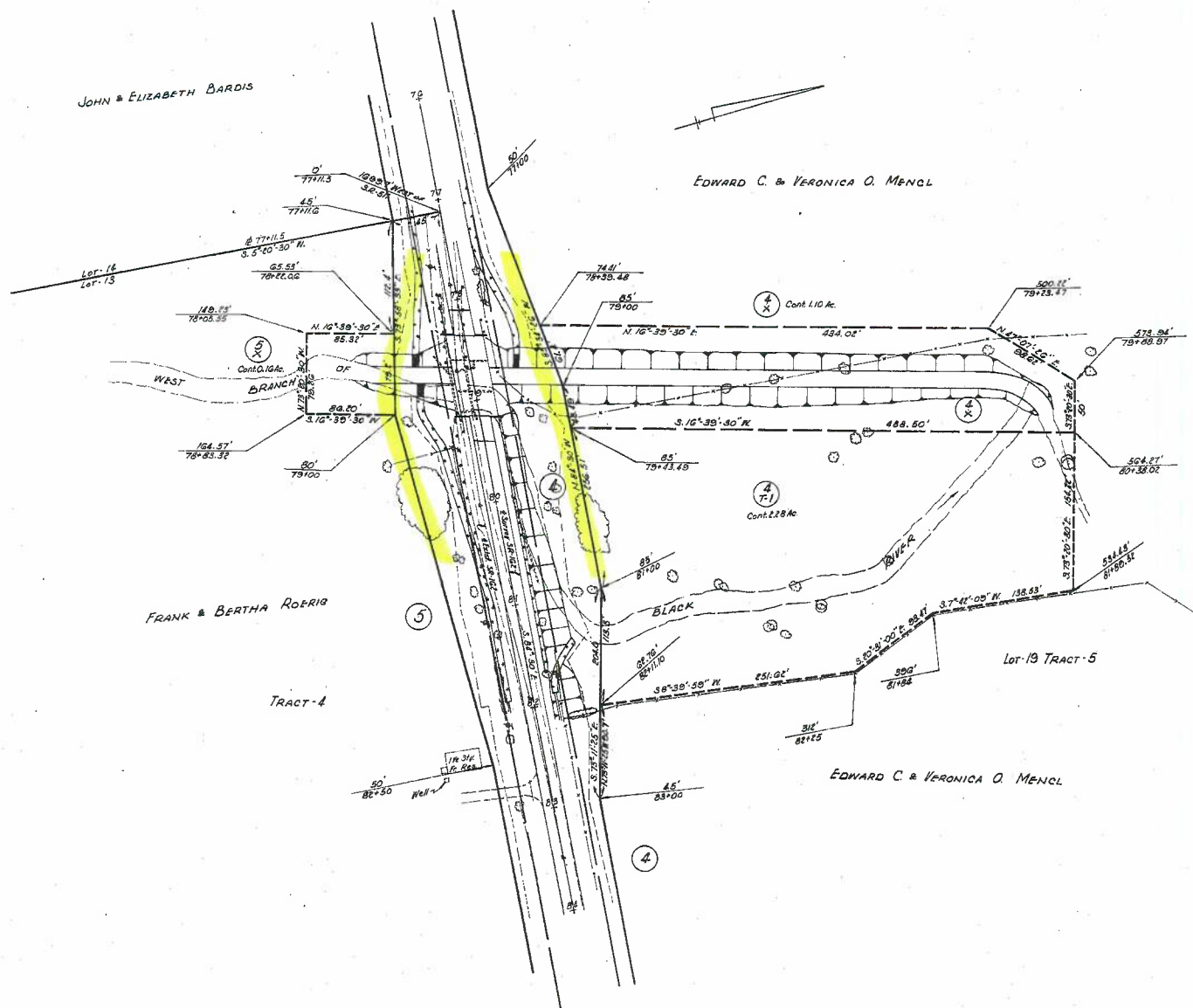
DESIGNED	DRAWN	TRAILED	CHECKED	REVIEWED	DATE	REVISED
J.D.R.	J.D.R.	Jerry Kingham	N.U.B.	BFG	2-7-63	9-21-63



FED. RD. DIVISION	STATE	PROJECT	39
2	OHIO		1

LOR-162-(0.98) (2.78-3.10)
RIGHT OF WAY PLANS
SCALE 1"=50'

3
5



ROCHESTER TWP TRACT-4 & 5 LOTS-19 & 13 T-2N R-19W

LOR-162-(0.98) (2.78-3.10) R/W 3/5

CHANNEL R/W STA 78+75.76

SEP 21 1965