

STATE OF OHIO  
DEPARTMENT OF HIGHWAYS

S-432(4)

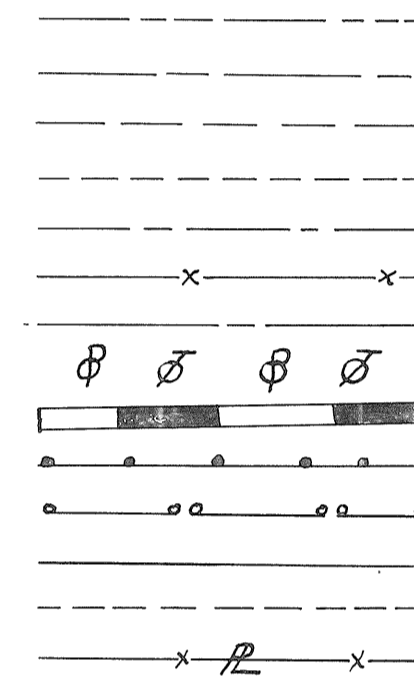
FED. RD. DIVISION	STATE	PROJECT	1/22
2	OHIO	5-432(4)	

PAULDING & DEFIANCE COUNTIES  
PAU-III-24.00  
DEF-III-(0.00)(1.13)

PAU-III-24.00 DEF-III-(0.00)(1.13)  
PAULDING COUNTY DEFIANCE COUNTY  
AUGLAIZE TOWNSHIP DEFIANCE TOWNSHIP

CONVENTIONAL SIGNS

- State Line
- County Line
- Township Line
- Section Line
- Corporation Line
- Fence Line
- Center Line
- Pole Line
- Railroad
- Guard Rail, Proposed
- Guard Rail, Existing
- Drain Pipe, Proposed
- Drain Pipe, Existing
- Property Line



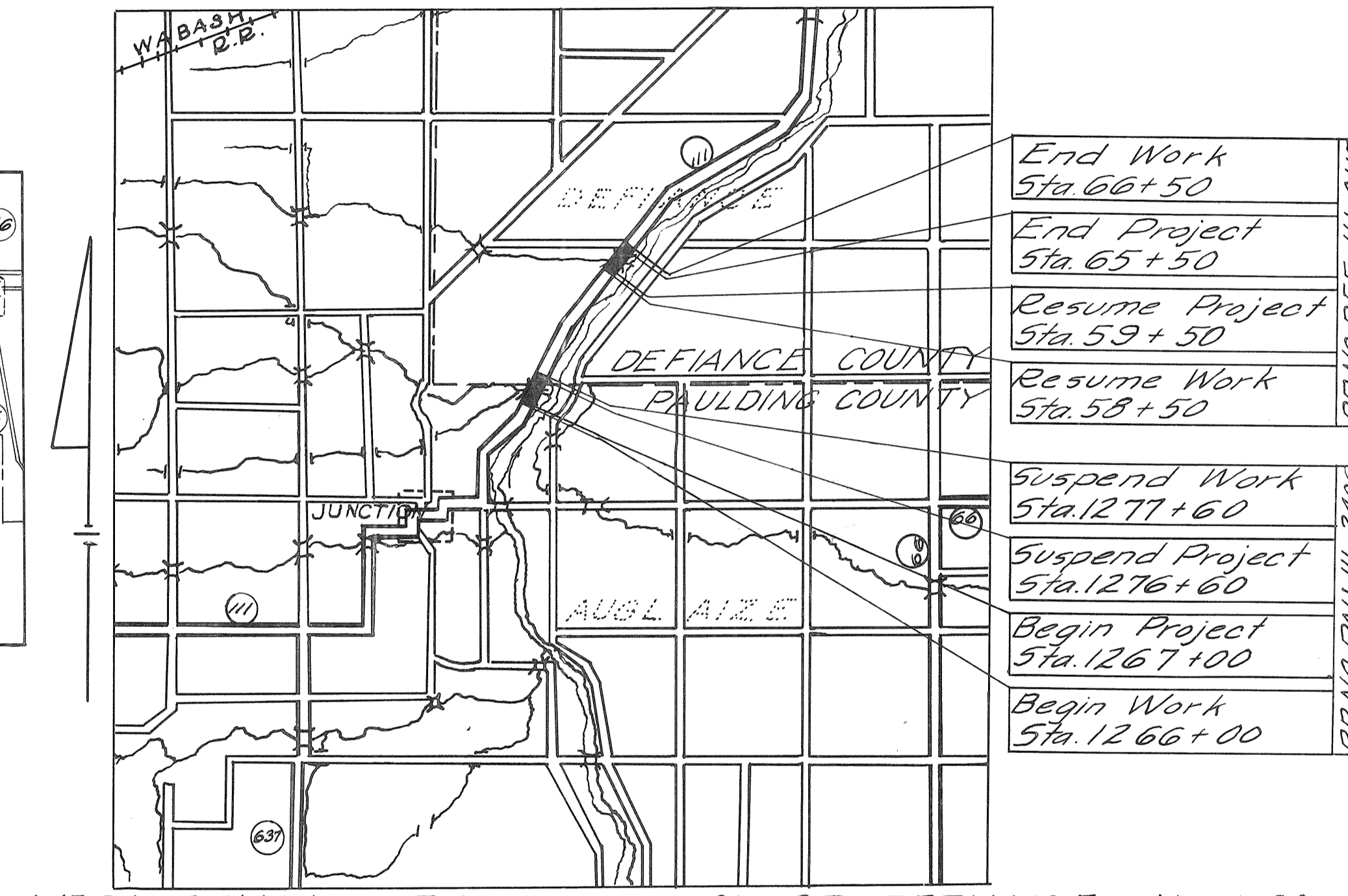
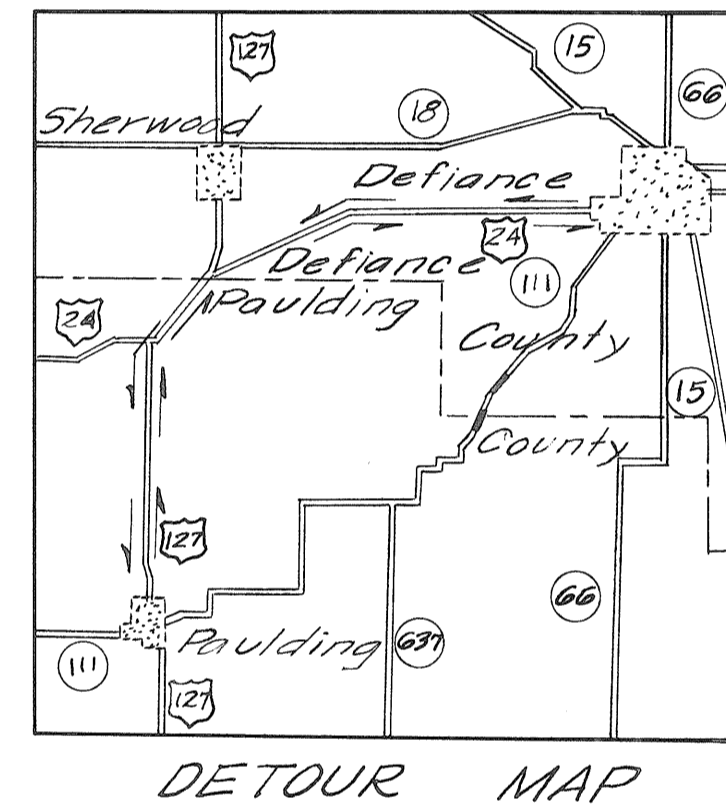
INDEX OF SHEETS

Title Sheet	1
Typical Sections	2
General Notes & Details	3
General Summary	4
Plan & Profile	5-7
Cross Sections	8-17
Structures 20' Span & Under	18
Structure over 20 Ft. Span	19-20
Right of Way	21-22

LINE DATA

Begin Project Sta. 1267+00  
Suspend Project Sta. 1276+60  
Resume Project Sta. 59+50  
End Project Sta. 65+50  
No Additions or Deductions  
Net Length of Project = 1560 Lin. Ft. or 0.295 Mile

Begin Work Sta. 1266+00  
Suspend Work Sta. 1277+60  
Resume Work Sta. 58+50  
End Work Sta. 66+50  
No Additions or Deductions  
Net Length of Work = 1960 Lin. Ft. or 0.371 Mile

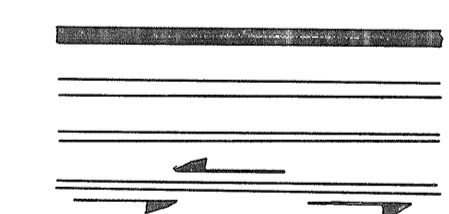


End Work	Sta. 66+50
End Project	Sta. 65+50
Resume Project	Sta. 59+50
Resume Work	Sta. 58+50
Suspend Work	Sta. 1277+60
Suspend Project	Sta. 1276+60
Begin Project	Sta. 1267+00
Begin Work	Sta. 1266+00

AVERAGE HAUL 6.5 Mi. DELIVERY PT. DEFIANCE via Wabash RR or B.&O. RR

LOCATION PLAN

SCALE 1" = 1 MILE  
PORTION TO BE IMPROVED  
STATE HIGHWAYS  
OTHER ROADS  
DETOURS



SCALES

PLAN 1 Inch = 50 Feet  
PROFILE (Horizontal) 1 Inch = 50 Feet  
PROFILE (Vertical) 1 Inch = 5 Feet  
CROSS SECTION 1 Inch = 5 Feet

The Standard Specifications of the State of Ohio, Department of Highways, 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 of the highway to traffic, except as noted on Sheet No. 3, and that detours will be provided as indicated on the plans.

- Approved James Hoover  
Date 6/5/59 Division Deputy Director
- Approved Aug. E. Neuper  
Date 7-1-59 Deputy Director of Planning & Programming
- Approved J. W. Overman  
Date 7-29-59 Engineer of Bridges
- Approved Walter A. ...  
Date 7-4-59 Engineer of Location & Design
- Approved C. W. McCord  
Date 9-4-59 Deputy Director of Design & Construction
- Approved Garberry  
Date 9-10-59 First Assistant Director
- Approved E. S. ...  
Date 9-10-59 Director of Highways

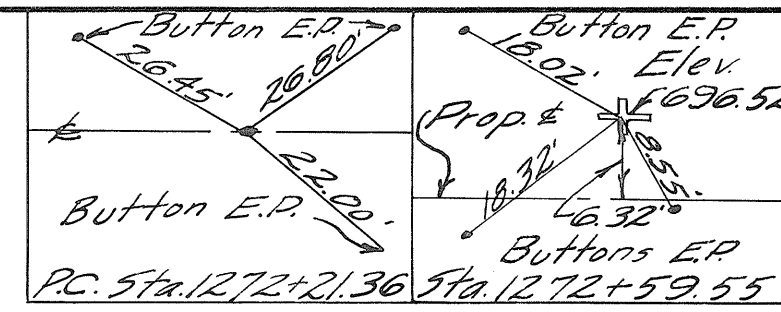
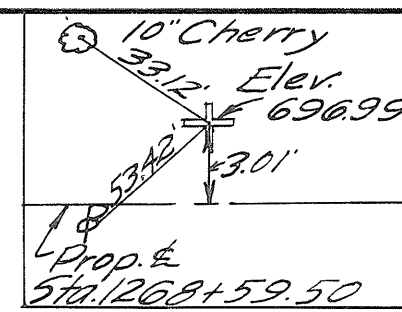
FILE NO.	PAU-III-24.00 DEF-III-(0.00)(1.13)
Date of Letting	19
Contract No.	

STANDARD DRAWINGS		DRAWINGS	
DRAWING	DATE	DRAWING	DATE
DR-1	1-3-55	5-27 PC. 3	2-20-45
G-7.07	6-1-56	T-35	1-25-56
I-15 No. 1	5-21-59	A5-1-54	12-1-54
I-15 No. 2-A	5-21-59	C5-1-54 5 sheets HZ	7-16-56
L-1	4-1-50	A-1-54	12-1-54
L-3	4-1-50	P-1-54	2-25-59
L-3-A	4-1-50	SP-53	11-25-58
RI-1	7-15-58	I-1,2,3,4&5	4-24-58

SUPPLEMENTAL SPECIFICATIONS	
NUMBER	DATE

DEPARTMENT OF COMMERCE  
BUREAU OF PUBLIC ROADS  
APPROVED:  
  
DIVISION ENGINEER      DATE

JUL 9 1959  
GROUND PHOTOLAP



**EXISTING STRUCTURE**  
 Type: Conc. Beam  
 Span: 35'-9 1/2"  
 Roadway: 19'-5"  
 Skew: 0°  
 Wear. Surf: Bit.  
 Loading: H-15  
 Abutments: Conc. & Stone; Gravity

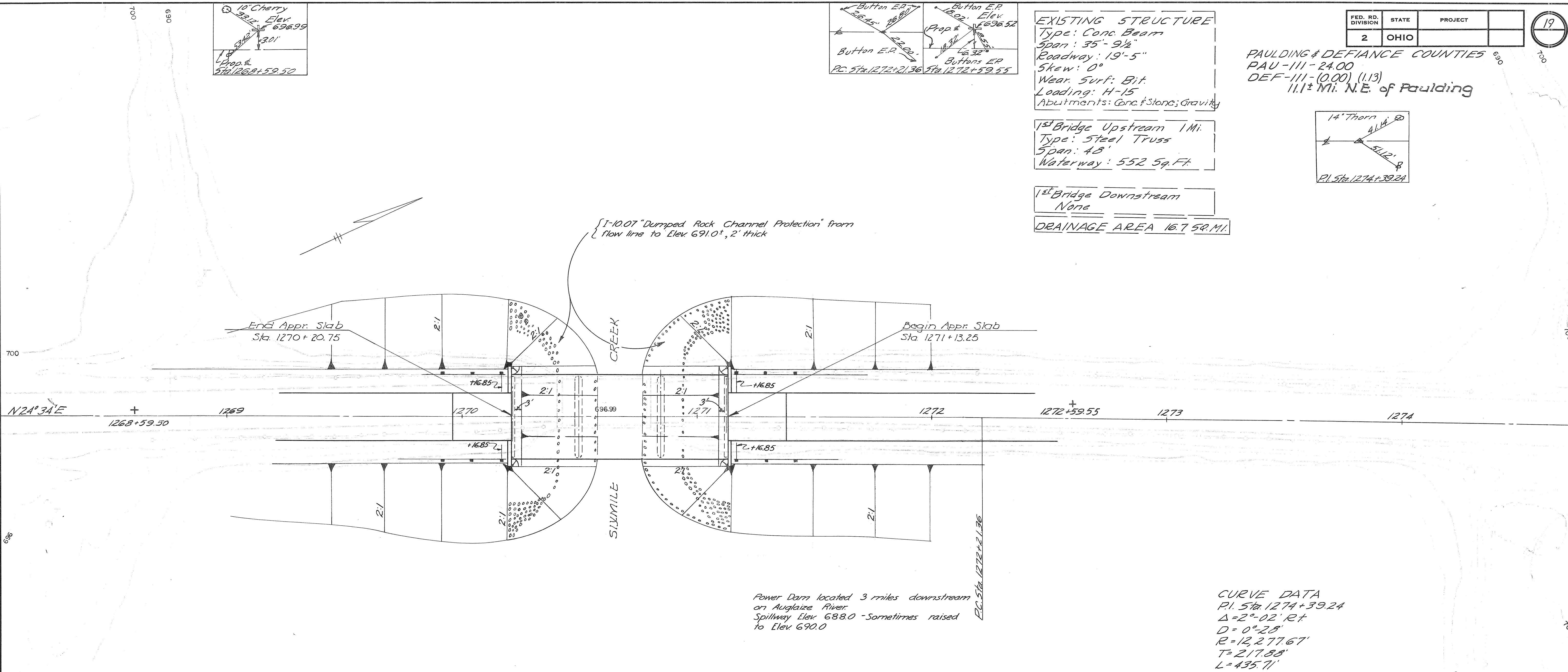
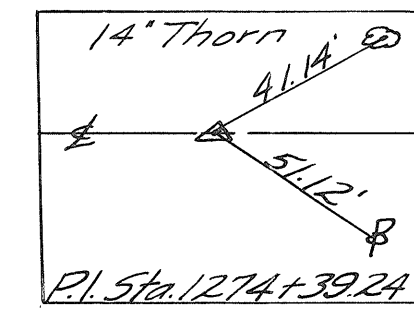
1<sup>st</sup> Bridge Upstream 1 Mi.  
 Type: Steel Truss  
 Span: 48'  
 Waterway: 552 Sq. Ft.

1<sup>st</sup> Bridge Downstream  
 None

DRAINAGE AREA 16.758 MI.

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

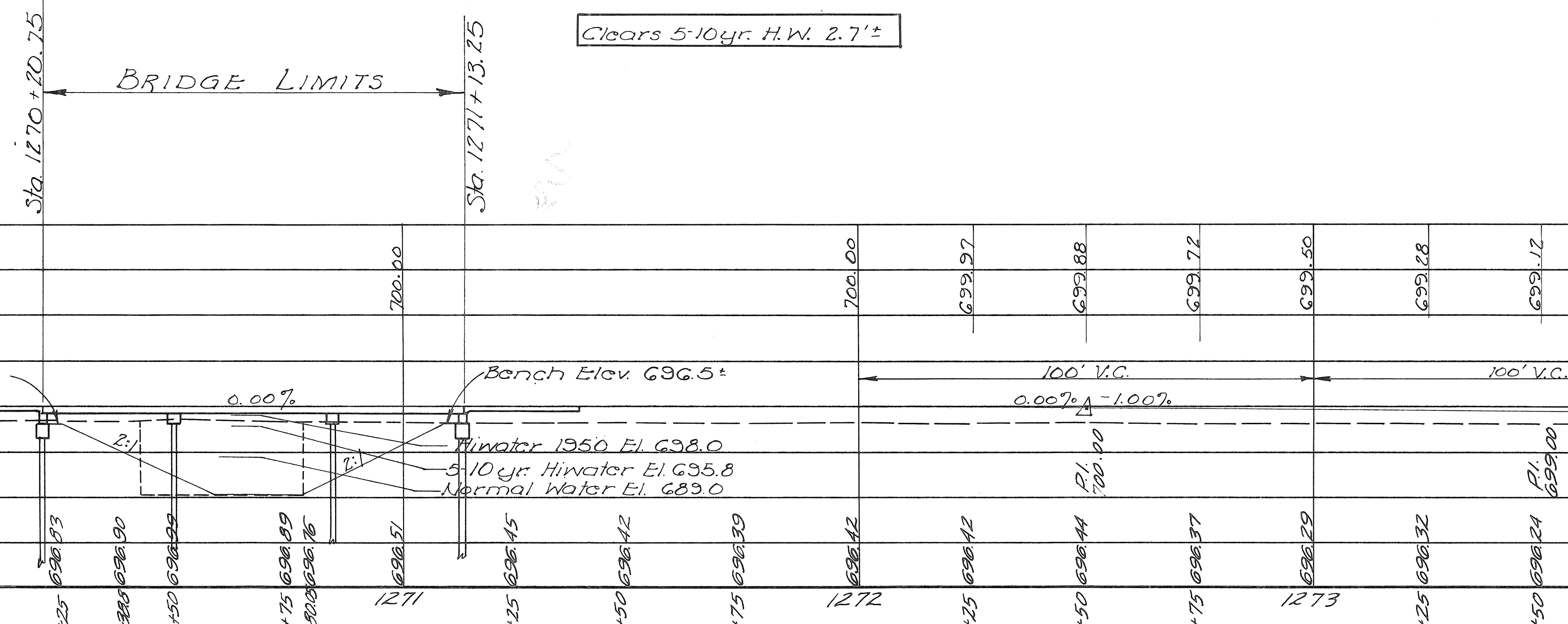
PAULDING & DEFIANCE COUNTIES  
 PAU-III-24.00  
 DEF-III-(0.00) (1.13)  
 11.1± MI. N.E. of Paulding



Power Dam located 3 miles downstream on Auglaize River. Spillway Elev. 688.0 - Sometimes raised to Elev. 690.0

**CURVE DATA**  
 P.I. Sta. 1274+39.24  
 $\Delta = 2^\circ - 02' R^+$   
 $D = 0^\circ - 28'$   
 $R = 12,277.67'$   
 $T = 217.88'$   
 $L = 435.71'$   
 $E = 1.93'$

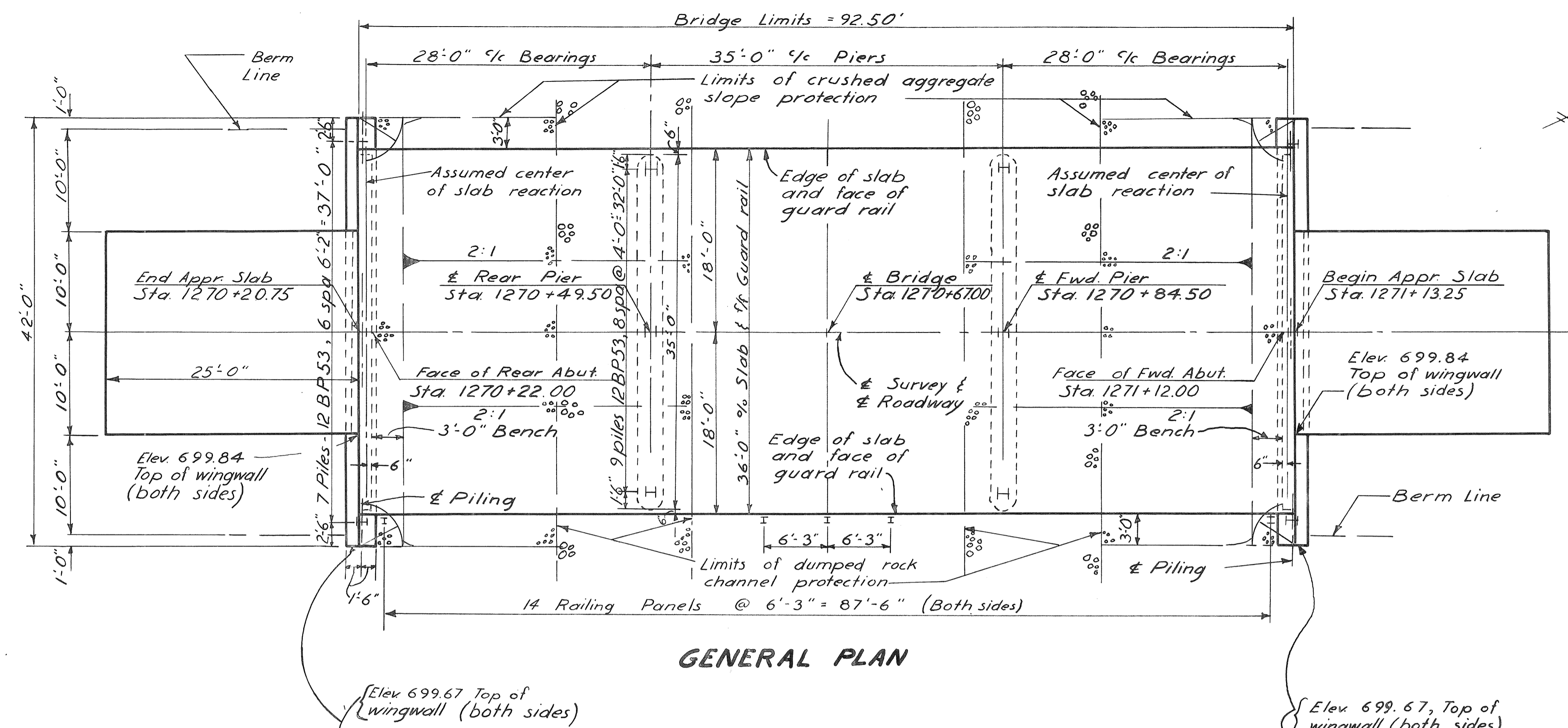
**FOUNDATION SOUNDINGS:** Foundation design and foundation quantities are based on a study of rod soundings and soil-sampling soundings made at the site. This sounding information may be inspected in the office of the Bureau of Bridges in Columbus or in the Division office, but the State does not guarantee the accuracy thereof.



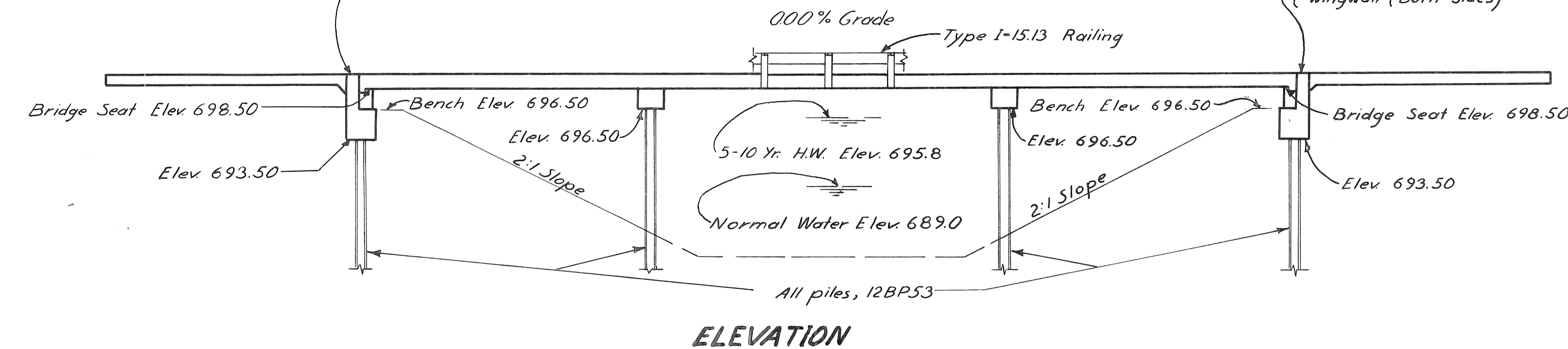
**PROPOSED STRUCTURE**  
 TYPE: Continuous reinf. conc. slab with capped pile abutments and piers.  
 SPANS: 28'-35'-28' % brgs.  
 ROADWAY: 36' 1/2" guard rails.  
 LOAD FREQUENCY: CF = 130 (57)  
 SKEW: None  
 WEARING SURFACE: 3/4" Monolithic conc.  
 APPROACH SLABS: AS-1-5A (25' long)  
 ALIGNMENT: Tangent

STATE OF OHIO DEPARTMENT OF HIGHWAYS BUREAU OF BRIDGES					
<b>SITE PLAN</b>					
BRIDGE NO. PAU-III-2406		PAULDING CO SIXMILE CREEK S.R. III			
SCALE 1"=20'		STA. 1270+20.75 to STA. 1271+13.25			
PRESENT TOPOGRAPHY		PROPOSED WORK			
SURVEYED	DRAWN	DESIGNED	DRAWN	CHECKED	REVIEWED
Aerial Survey	Aerial Survey	B.D.H.	B.D.H.	J.E.R.	P.E.S.
BFG apr. 7-9-59					

PAU-111-24.00  
DEF-111-(0.00)(1.13)



REINFORCING STEEL LIST														
Mark	No.	Length	Weight	Shp.	Bending Diagrams					Mark	No.	Length	Weight	Shp.
Abutments					Superstructure					Replacement Bars				
R1001	16	18'-11"	1302	S	RE401	90	32'-8"	9996	S	RE1001	1	7'-2"	-	S
R801	16	22'-1"	943	S	P401	28	23'-6"	2237	B	RE901	2	6'-10"	-	S
R501	16	21'-7"	360	S	C926	30	20'-9"	2117	B	RE801	1	6'-6"	-	S
R502	136	6'-7"	934	B	D926	14	22'-0"	1047	S	RE601	1	5'-11"	-	S
R503	8	18'-1"	151	S	E926	15	16'-4"	833	S	RE501	1	5'-7"	-	S
R504	24	5'-4"	134	S	F926	74	23'-10"	5996	S	RE401	1	5'-5"	-	B
R505	28	7'-11"	231	B	G926	34	11'-7"	1339	S					
R506	8	10'-8"	89	S	H926	36	8'-2"	1000	S					
R507	16	4'-11"	82	S										
R508	24	6'-8"	167	B										
R509	24	8'-5"	211	B										
R401	56	5'-5"	203	B										
Piers														
P1001	8	35'-6"	1222	S										
P901	8	32'-6"	884	S										
P501	4	32'-6"	136	S										
P502	56	8'-0"	467	B										
P503	8	6'-4"	53	B										
P401	72	5'-5"	261	B										



ESTIMATED QUANTITIES						
Item	Total	Unit	Description	Abut.	Piers	Super. Gener.
E-2	52	Cu. Yds.	Unclassified excavation	52		
E-3	487	Cu. Yds.	Channel excavation			487
S-1	166	Cu. Yds.	Class "C" concrete, superstructure & pier caps		13	153
S-1	42	Cu. Yds.	Class "E" concrete, abutments	42		
S-4	42,415	Lbs.	Reinforcing steel	4807	3023	34,585
S-14	185.00	Lin. Ft.	Railing (Type I-15.13 with galvanized steel posts and bolts)			185.00
S-16	Lump	Sum	First test pile			Lump
S-18	930	Lin. Ft.	Steel piles, 12BP53	410	520	
S-24	Lump	Sum	Removal of existing structure			Lump
S-29	17	Cu. Yds.	Porous backfill	17		
I-10	159	Sq. Yds.	Crushed aggregate slope protection			159
I-10	390	Cu. Yds.	Dumped rock channel protection			390

**REPLACEMENT BARS:** If reinforcing bars are fabricated from stock which has previously been tested and approved by the Ohio Highway Testing Laboratory, test samples as provided in Sec. 5-4.02 need not be furnished and replacement bars will not be required.

**GENERAL NOTES**

**REFERENCE** shall be made to Standard Drawings A-1-54 revised 12-1-54, CS-1-54 revised 7-16-56 and P-1-54 revised 2-2-59.

**REMOVAL OF EXISTING STRUCTURE:** When no longer needed to maintain traffic, the existing structure shall be removed.

**EXCAVATION QUANTITY** for the abutments, in addition to that outlined in Sec. E-2.09, includes the removal of material bounded by the proposed bench, by the front vertical plane described in Sec. E-2.09 and by the finished slope of the cut.

**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. 18.05 is not less than the following value for a pile hammer of the indicated energy rating:

For the abutment piles:  
55 tons per pile using a 11,000 ft. lb. hammer  
45 tons per pile using a 15,000 ft. lb. or greater hammer

For the pier piles:  
55 tons per pile using a 11,000 ft. lb. hammer  
45 tons per pile using a 15,000 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 and 26 tons per pile for the pier piles.

**PIER PILE ENCASEMENT** as shown on Std. Dwg. P-1-54 is not required. The painting 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.

**SLAB THICKNESS** is 14 3/4" which includes 3/4" for monolithic wearing surface.

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

**GENERAL PLAN, ELEVATION, NOTES, ESTIMATED QUANTITIES AND REINFORCING STEEL LIST**  
BRIDGE NO. PAU-111-2406  
OVER SIXMILE CREEK  
PAULDING COUNTY STA. 1270+20.75  
STA. 1271+13.25

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
REM	REM	CHD	DGM	BFG	7-3-59	