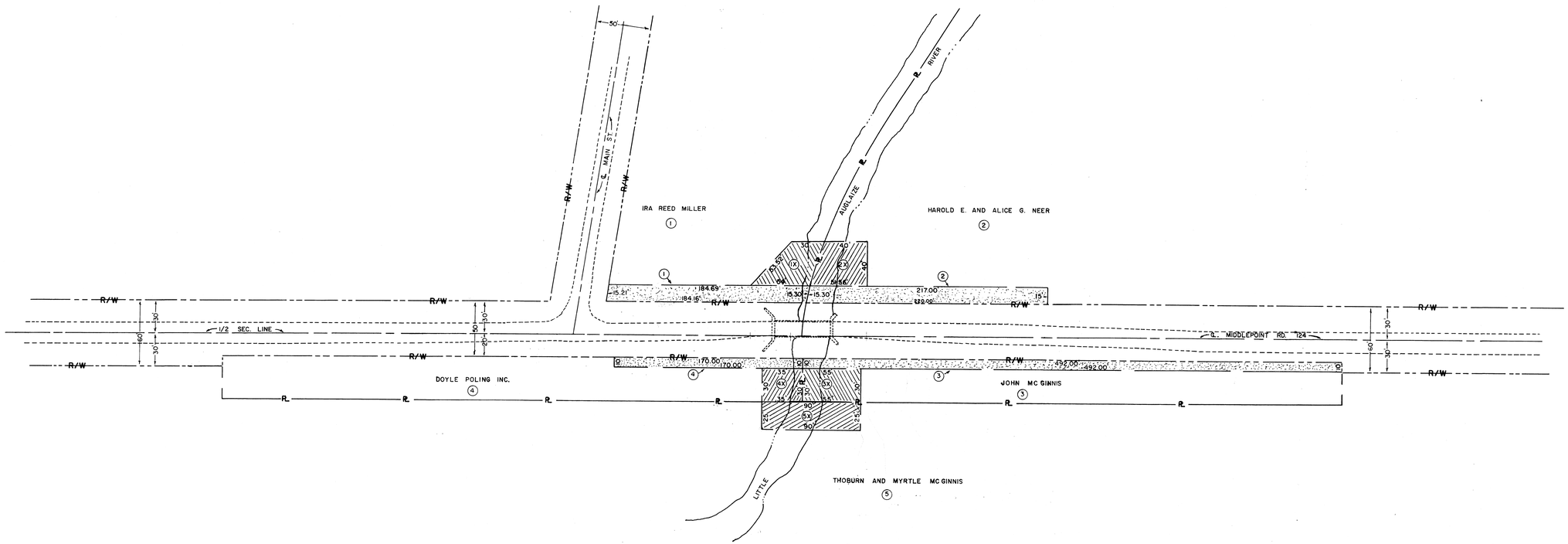


2

MIDDLEPOINT RD. BRIDGE

RIGHT-OF-WAY PLAN

WA12414

CONVENTIONAL SIGNS

TOWNSHIP LINE	
SECTION LINE	
CENTERLINE	
CORPORATION LINE	
PROPERTY LINE	
FENCE LINE	
PROPOSED RIGHT-OF-WAY	R/W
EXISTING RIGHT-OF-WAY	EXIST. R/W
GUARD RAIL	(NEW) (EXIST.)
RAILROADS	
POLE LINES	TELEPHONE POWER
DRAINAGE LINES	SIZE NEW SIZE EXIST.
TREES AND STUMPS	EXISTING REMOVE
GAS LINES	G SIZE G
TELEPHONE LINES (UNDERGROUND)	T T
WATER LINES	W SIZE W

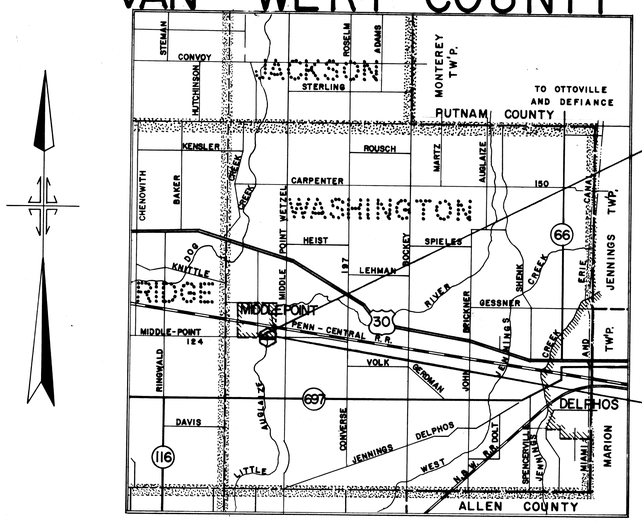
MICROFILMED
OCT 18 1978
REPRODUCTION

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

COUNTY ROAD 124

BRIDGE OVER LITTLE AUGLAIZE RIVER

WASHINGTON TOWNSHIP
VILLAGE OF MIDDLEPOINT
VAN WERT COUNTY



LOCATION MAP

BEGIN PROJECT
STA. 18+25.00

END PROJECT
STA. 23+25.00

SCALE OF MILES
0 2 3

INDEX OF SHEETS

TITLE SHEET	1
TYPICAL SECTIONS	2
GENERAL NOTES	3
COMPUTATIONS & SUBSUMMARIES	4
GENERAL SUMMARY	4
PLAN AND PROFILE	5
CROSS SECTIONS & CHANNEL SECTIONS	6-8
STRUCTURES OVER 20' SPAN	9-12
RIGHT-OF-WAY	13

LINE DATA

BEGIN PROJECT	STA. 18+25.00
END PROJECT	STA. 23+25.00
LENGTH OF PROJECT	500.00 LIN. FT. = 0.094 MILES
BEGIN WORK	STA. 18+00.00
END WORK	STA. 23+50.00
LENGTH OF WORK	550.00 LIN.FT. = 0.104 MILES

Portion to be improved
Federal Roads
State Roads
Other Roads
Railroads

SCALES

Plan 0 20 40 60 80 100
Profile, Horizontal 0 20 40 60 80 100
Profile, Vertical 0 2 4 6 8 10
Cross-Sections 0 2 4 6 8 10

PLANS PREPARED BY
CHARLES L. BARBER & ASSOCIATES, INC.
CONSULTING ENGINEERS, TOLEDO, OHIO
BY _____ DATE Nov. 15, 1972

STANDARD CONSTRUCTION DRAWINGS

DRAWING NO.	DATE	DRAWING NO.	DATE
CB-2-2-A&B	6-1-65	GR-4	11-9-71
HW-4	1-1-70	L-1	6-1-73
MC-4	6-13-69	MC-3	6-1-73
GR-2B	11-9-71	AS-1-72	6-30-72
GR-3	11-9-71		
BP-5	6-1-72	DBR-1-71	1-1-71

SUPPLEMENTAL SPECIFICATIONS

SPECIFICATION NO.	DATE	SPECIFICATION NO.	DATE
1001	9-20-72		
808	1-1-71		
836	1-1-71		

FILE NO.	VAN WERT COUNTY
	Date of Letting
	Contract No. 197

ISSUE 1 FUNDS

FED. RD. DIVISION	STATE	PROJECT	
5	OHIO	STATE	

1/13

VAN WERT COUNTY
C. R. 124

WE THE COMMISSIONERS OF VAN WERT COUNTY, IN FORMAL SESSION, HEREBY APPROVE THESE PLANS AND CERTIFY THAT THE NECESSARY RIGHT-OF-WAY IS AVAILABLE. WE AGREE TO MAINTAIN THE PROJECT IN A MANNER SATISFACTORY TO THE DIRECTOR OF TRANSPORTATION, STATE OF OHIO, OR HIS DULY AUTHORIZED REPRESENTATIVES AND WILL MAKE AMPLE PROVISION EACH YEAR FOR SUCH MAINTENANCE.

DONE UNDER AUTHORITY OF SECTIONS 5535.01 & 5555.02 et seq. OF THE REVISED CODE OF OHIO.

BOARD OF COMMISSIONERS — VAN WERT COUNTY

Date _____

Edward L. Jones
J. A. Giessler
L. A. Galloway

1973 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DIVISION OF HIGHWAYS, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL, SHALL GOVERN THIS IMPROVEMENT.

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 3.

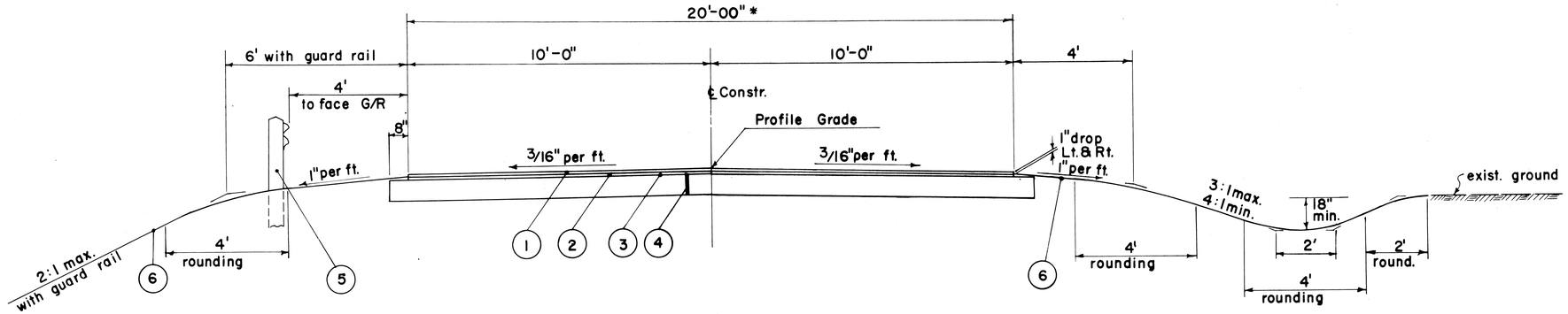
APPROVED DATE Dec. 21, 1972	County Engineer
APPROVED DATE Dec. 26, 1972	District Deputy Director of Transportation
APPROVED DATE 2-6-73	Engineer, Bureau of Bridges
APPROVED DATE 7-12-73	Engineer, Bureau of Roadway Design
APPROVED DATE 7-12-73	Assistant Deputy Director for Highway Design
APPROVED DATE 7-23-73	Assistant Deputy Director for Program Development
APPROVED DATE	Chief Engineer, Division of Highways
APPROVED DATE 7-23-73	Deputy Director, Division of Highways
APPROVED DATE	Assistant Director, Department of Transportation
APPROVED DATE 7/24/73	Director, Department of Transportation

FED. RD. DIVISION	STATE	PROJECT	
5	OHIO		

2
13

VAN WERT COUNTY
C.R. 124

TYPICAL SECTION
TYPE 404 ON 304



STA. 18+25 TO STA. 19+00 (*Varies 15.5' to 20')
STA. 19+00 TO STA. 19+32.50
STA. 20+77.50 TO STA. 23+00.00
STA. 23+00.00 TO STA. 23+25.00 (*Varies 19' to 20')

LEGEND

1. 404, 1¼" Asphalt Concrete (85-100 or AC-20)
2. 402, 1¼" Asphalt Concrete (85-100 or AC-20)
3. 408, Bituminous Prime Coat 702.09 RT-2 or RT-3 applied at 0.4 Gal. per Sq.Yd.
4. 304, 8" Aggregate Base
5. 606, Guard Rail, Type 5
6. 659, Seeding and Mulching

NOTES

Slopes and ditches will be as indicated unless otherwise shown on the cross sections

DESIGN DESIGNATION

CURRENT A.D.T. (1972)	=250
DESIGN YEAR A.D.T. (1992)	=400
DESIGN SPEED	=40 M.P.H.
D.H.V.	=10%
D (DIRECT. DISTR.)	=60%

TYPICAL SECTION

FED. RD. DIVISION	STATE	PROJECT	
5	OHIO		

3/13

VAN WERT COUNTY
C.R. 124

GENERAL NOTES

FIELD OFFICE

THE CONTRACTOR SHALL PROVIDE A SUITABLE FIELD OFFICE HAVING A MINIMUM OF 150 SQ. FT. OF FLOOR SPACE AND IN ADDITION TO THE REQUIREMENTS OF ITEM 619, HE SHALL PROVIDE AND MAINTAIN SANITARY PROVISIONS AS PER 107.06. ALL THE ABOVE IS INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 619, FIELD OFFICE.

UTILITIES

THE LOCATIONS OF UNDERGROUND UTILITIES SHOWN ON THESE PLANS HAVE BEEN OBTAINED BY DILIGENT FIELD CHECKS AND SEARCHES OF AVAILABLE RECORDS. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, BUT THE COUNTY OF VAN WERT MAKES NO GUARANTEES AS TO THEIR ACCURACY OR COMPLETENESS.

THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANY 5 WORKING DAYS BEFORE ANY CONSTRUCTION WORK IS PERFORMED IN THE AREAS WHERE THE EXISTING LINES ARE LOCATED.

OWNERSHIP OF UTILITIES AFFECTED BY THIS PROJECT IS AS FOLLOWS:

UNITED TELEPHONE CO., 112 W. MARKET ST., VAN WERT, O. 45891

OHIO POWER CO., 111 N. WASHINGTON ST., VAN WERT, O. 45891

WEST OHIO GAS CO., 123 CENTRAL AVE., VAN WERT, O. 45891

ROUNDING OF CORNERS SHOWN ON CROSS SECTIONS

THE ROUNDED CORNERS SHOWN ON THE TYPICAL SECTIONS APPLY TO ALL CROSS SECTIONS, EVEN THOUGH OTHERWISE SHOWN ON THESE PLANS.

MAINTAINING TRAFFIC

THE CONTRACTOR SHALL SCHEDULE HIS OPERATIONS IN SUCH A MANNER THAT TWO-WAY TRAFFIC WILL BE MAINTAINED THROUGH THE PROJECT DURING THE PERIOD BETWEEN DECEMBER 1, 1973 AND APRIL 1, 1974. LOCAL TRAFFIC SHALL BE MAINTAINED AT ALL TIMES IN ACCORDANCE WITH 614.02 (a).

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER.

25 CU. YDS. OF ITEM 410, TYPE "A" OR "B", 1 TON OF ITEM 616, CALCIUM CHLORIDE, AND 1 M-GAL. OF ITEM 616, WATER.

COST OF THE ABOVE, EXCEPT FOR THE FURNISHING AND PLACING OF THE "410" AND "616" SHALL BE INCLUDED IN THE LUMP SUM BID FOR "ITEM 614, MAINTAINING TRAFFIC".

SEEDING

QUANTITIES FOR SEEDING ARE CALCULATED FOR THE SOIL AREAS BETWEEN LINES 2 FT. OUTSIDE THE WORK LIMITS AS SHOWN ON THE CROSS SECTIONS. THE SEED MIXTURE SPECIFIED IN SECTION 659.09 SHALL BE USED UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

REMOVAL OF EXISTING PIPE

THE REMOVAL OF ALL EXISTING PIPE DRAINS WHICH WOULD NORMALLY BE REMOVED IN VARIOUS EXCAVATION ITEMS SHALL BE INCLUDED FOR PAYMENT IN THE UNIT PRICES BID FOR THE RESPECTIVE EXCAVATION ITEMS, UNLESS OTHERWISE ITEMIZED IN THE PLANS.

MAINTENANCE OF SEWER FLOWS

THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS SO AS TO MAINTAIN AT ALL TIMES SEWER FLOWS THROUGH EXISTING FACILITIES TO REMAIN IN PLACE AND THROUGH EXISTING FACILITIES TO BE REPLACED UNTIL NEW FACILITIES ARE COMPLETED AND PLACED IN USE.

PAYMENT FOR ANY ADDITIONAL COSTS INVOLVED IN MAINTAINING THESE FLOWS BY PUMPING OR BY ANY OTHER MEANS APPROVED BY THE ENGINEER SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE RESPECTIVE ITEMS OF 603 CONDUIT.

ADJUSTING GUARD RAIL LOCATIONS

PRIOR TO STAKING THE GUARD RAIL, THE ENGINEER SHALL MAKE A FIELD INSPECTION AND, IF NECESSARY, ADJUST THE STATIONS OF THE END POSTS TO ACCOMMODATE FIELD CONDITIONS AND TO PROVIDE BETTER PROTECTION.

FARM DRAINS

ALL FARM DRAINS WHICH ARE ENCOUNTERED DURING CONSTRUCTION SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS UNDER THE DIRECTION OF THE ENGINEER. EXISTING COLLECTORS WHICH ARE LOCATED BELOW THE ROADWAY DITCH ELEVATIONS AND WHICH CROSS THE ROADWAY SHALL BE REPLACED WITHIN THE CONSTRUCTION LIMITS BY ITEM 603 CONDUIT, TYPE "B", ONE COMMERCIAL SIZE LARGER THAN THE EXISTING CONDUIT.

EXISTING COLLECTORS AND ISOLATED FARM DRAINS WHICH ARE ENCOUNTERED ABOVE THE ELEVATION OF THE ROADWAY DITCHES SHALL BE OUTLETTED INTO THE ROADWAY DITCH BY 603 TYPE "F" CONDUIT. THE OPTIMUM OUTLET ELEVATION SHALL BE, IF POSSIBLE, ONE FOOT ABOVE THE FLOWLINE ELEVATION OF THE DITCH.

THE LOCATION, TYPE, SIZE AND GRADE OF REQUIRED REPLACEMENTS SHALL BE DETERMINED BY THE ENGINEER DURING CONSTRUCTION AND PAYMENT SHALL BE MADE ON FINAL MEASUREMENTS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE.

ITEM 603, 6" CONDUIT, TYPE "B", 50 LIN. FT.

ITEM 603, 6" CONDUIT, TYPE "F", 50 LIN. FT.

NECESSARY BENDS OR BRANCHES SHALL BE INCLUDED FOR PAYMENT IN THE PERTINENT CONDUIT ITEM.

NONE OF THE ABOVE MATERIALS SHALL BE ORDERED BY THE CONTRACTOR UNTIL REQUESTED BY THE ENGINEER.

EROSION CONTROL

ITEM 601 IS PROVIDED IN THE PLANS FOR EROSION CONTROL. ROCK OF A STABLE NATURE WILL NOT BE REMOVED IN ORDER TO PLACE THIS ITEM.

ENGINEER SHALL CHECK AND NON-PERFORM QUANTITIES OR ADJUST LOCATIONS AND QUANTITIES FOR THIS ITEM WHERE INDICATED BY FIELD CONDITIONS DURING CONSTRUCTION.

DETOUR

IT WILL BE THE RESPONSIBILITY OF VAN WERT COUNTY TO PROVIDE A DETOUR FOR THIS PROJECT.

ELEVATION DATUM

ALL ELEVATIONS ARE BASED ON U.S.G.S. DATUM.

REMOVAL OF TREES AND STUMPS

ALL TREES AND STUMPS WITHIN THE CONSTRUCTION LIMITS OF THIS PROJECT SHALL BE REMOVED UNDER THE LUMP SUM PRICE BID FOR ITEM 201 CLEARING AND GRUBBING, EXCEPT THAT THOSE TREES FOR WHICH PROTECTION AND PRESERVATION WORK IS INDICATED ELSEWHERE IN THESE PLANS SHALL NOT BE REMOVED.

THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED.

SIZES	NO. TREES	NO. STUMPS
18"	3	

THE ABOVE ESTIMATE IS APPROXIMATE AND THE COUNTY RESERVES THE RIGHT TO ORDER THE REMOVAL OF ADDITIONAL TREES OR STUMPS OUTSIDE OF THE LIMITS OF CONSTRUCTION BUT WITHIN THE RIGHT-OF-WAY AND/OR EASEMENT LINES. PAYMENT FOR THE REMOVAL OF THESE ADDITIONAL TREES OR STUMPS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

NO. 2-2-A CATCH BASIN MODIFIED AS PER PLAN

THE NO. 2-2-A CATCH BASIN SHOWN ON THESE PLANS SHALL BE MODIFIED BY CONSTRUCTING SIDE INLETS ON THE WEST OR UPSTREAM SIDE ONLY.

ITEM 606, BRIDGE TERMINAL ASSEMBLY, TYPE B

The Bridge Terminal Assembly, Type B shall be constructed as shown on Standard Drawing GR-3 except that the wheel guard shall be omitted.

COMPUTATIONS

Calc. by : J.S.K 10-72
Checked by : A.D.J 12-72

PAVEMENT QUANTITIES

SURFACE AREA			L	x	W			
STA. 18+25.00	TO	19+00.00	= 75.00	x	17.75 AVE.	÷ 9	=	147.92 S.Y.
STA. 19+00.00	TO	19+32.50	= 32.50	x	20	÷ 9	=	72.22 S.Y.
STA. 20+77.50	TO	23+00.00	=222.50	x	20	÷ 9	=	494.44 S.Y.
STA. 23+00.00	TO	23+25.00	= 25.00	x	19.50 AVE.	÷ 9	=	54.17 S.Y.
						TOTAL	=	768.75 S.Y.

ITEM 404, 1¼" ASPHALT CONCRETE

768.75 x 1.25/36 (+ 1.50 C.Y. FEATHERING) = 26.69 + 1.50 = 28.19 USE ~ 29 C.Y.

ITEM 402, 1¼" ASPHALT CONCRETE

768..75 x 1.25/36 = 26.69 USE ~ 27 C.Y.

ITEM 408, BITU. PRIME COAT AT 0.4 GAL/S.Y.

768.75 x 0.4 = 307.50 USE ~ 308 GAL.

ITEM 304, AGGREGATE BASE

STA. 18+25.00	TO	19+00.00	= 75.00	x 19.09	÷ 9	=159.08 S.Y.
STA. 19+00.00	TO	19+32.50	= 32.50	x 21.34	÷ 9	= 77.06 S.Y.
STA. 20+77.50	TO	23+00.00	=222.50	x 21.34	÷ 9	=527.57 S.Y.
STA. 23+00.00	TO	23+25.00	= 25.00	x 20.84	÷ 9	= 57.89 S.Y.
					AREA	=821.60 S.Y.

AGGREGATE BASE AT 8" (UNDER PAV'T.) = 821.60 x 8" ÷ 36 = 182.58 USE ~ 183 C.Y.

ITEM 611, APPROACH SLAB (T=13")

25 "L" x 24 "W" ÷ 9 x 2 = 133.34 USE ~ 134 S.Y.

ROADWAY COMPUTATIONS

ITEM 659, COMMERCIAL FERTILIZER (12-12-12)

APPLIED AT 20 LB PER 1000 S.F.
TOTAL SEEDING FROM SHT. NO. 6 =
(2062 x 9 ÷ 1000) x (20 ÷ 2000) = 0.18558 USE ~ 0.19 TON

ITEM 203, SUBGRADE COMPACTION:

PAVEMENT SURFACE AREA (FROM ABOVE) = 768.75
FROM APPR. SLAB CALCULATIONS = 133.34

TOTAL = 902.09 USE ~ 902 S.Y.

FED. RD. DIVISION	STATE	PROJECT	
5	OHIO		

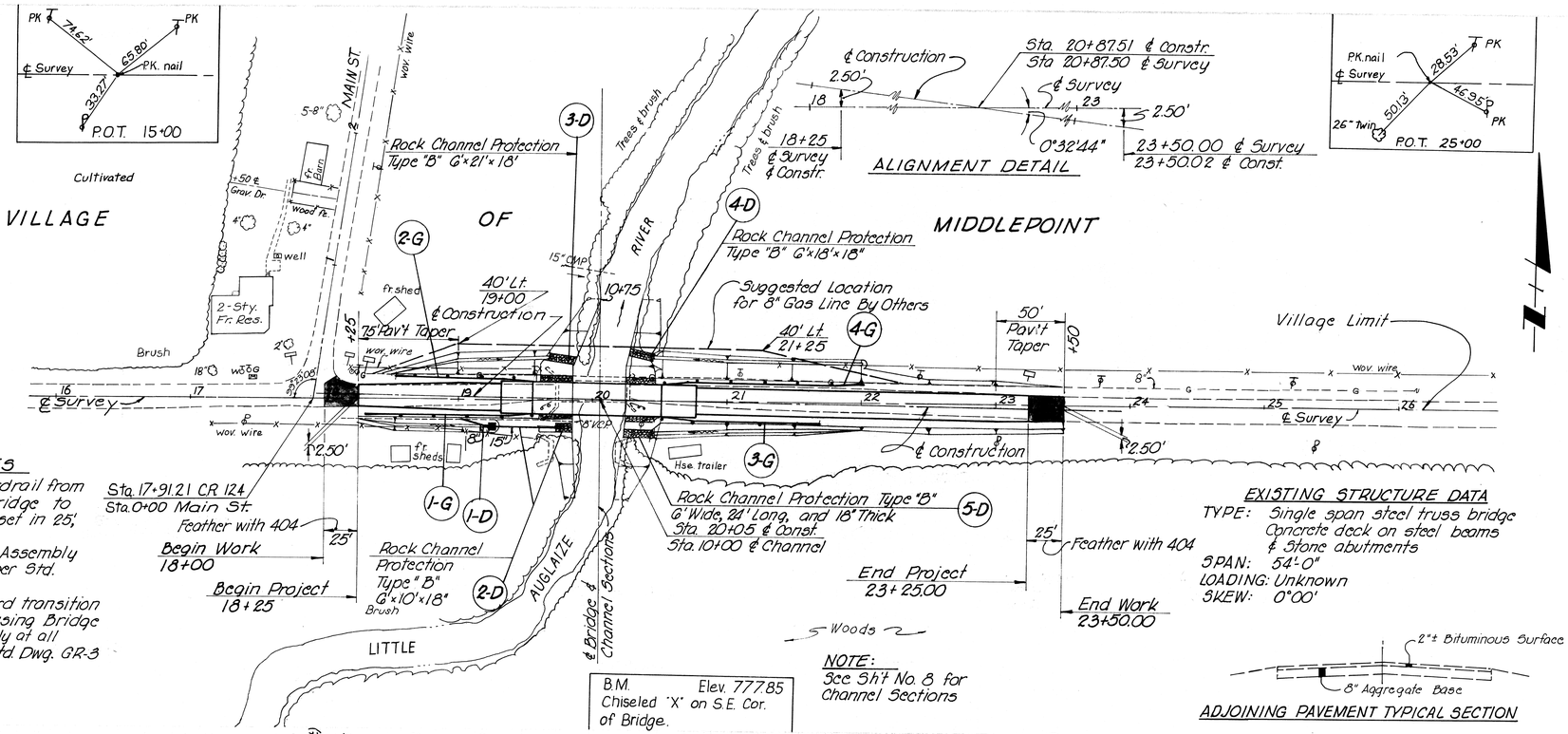
4
13

VANWERT COUNTY
C.R. 124

GENERAL SUMMARY

ITEM	QUANTITY	UNIT	DESCRIPTION	SHT. NO.
			ROADWAY	
201	LUMP	LUMP	CLEARING & GRUBBING	3
203	1344	CU.YD.	EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION	6
203	393	CU.YD.	EMBANKMENT	6
203	902	SQ.YD	SUBGRADE COMPACTION	4
410	25	CU.YD.	TRAFFIC COMPACTED SURFACE TYPE "A" OR "B"	3
616	1	TON	CALCIUM CHLORIDE	3
616	1	M-GAL	WATER	3
606	397.50	LIN.FT.	GUARD RAIL, TYPE 5	5
606	4	Each	BRIDGE TERMINAL ASSEMBLY, TYPE "B"	5
606	4	Each	ANCHOR ASSEMBLY	5
			EROSION CONTROL	
601	24	CU.YD.	ROCK CHANNEL PROTECTION TYPE "B"	5
659	2062	SQ.YD.	SEEDING AND MULCHING	6
659	0.19	TON	COMMERCIAL FERTILIZER (12-12-12)	4
			DRAINAGE	
602	0.25	CU.YD.	CONCRETE MASONRY	5
603	50	LIN.FT.	6" CONDUIT, TYPE "B"	3
603	24	LIN.FT.	8" CONDUIT, TYPE "C"	5
603	50	LIN.FT.	15" CONDUIT, TYPE "C"	5
603	50	LIN.FT.	6" CONDUIT, TYPE "F"	3
604	1	EACH	STANDARD NO. 2-2-A, CATCHBASIN MODIFIED AS PER PLAN	5
			PAVEMENT	
304	183	CU.YD.	AGGREGATE BASE	4
402	27	CU.YD.	ASPHALT CONCRETE (85-100 OR AC-20)	4
404	29	CU.YD.	ASPHALT CONCRETE (85-100 OR AC-20)	4
408	308	GALLON	BITUMINOUS PRIME COAT 702.09, RT-2 OR RT-3	4
611	134	SQ.YD.	REINFORCED CONCRETE APPROACH SLABS (T=13")	4
614	LUMP	LUMP	MAINTAINING TRAFFIC	3
623	LUMP	LUMP	CONSTRUCTION LAYOUT STAKES	3
619	LUMP	LUMP	FIELD OFFICE	3
			STRUCTURES OVER 20' SPAN	
			FOR BRIDGE QUANTITIES SEE SHEET NO. 10	

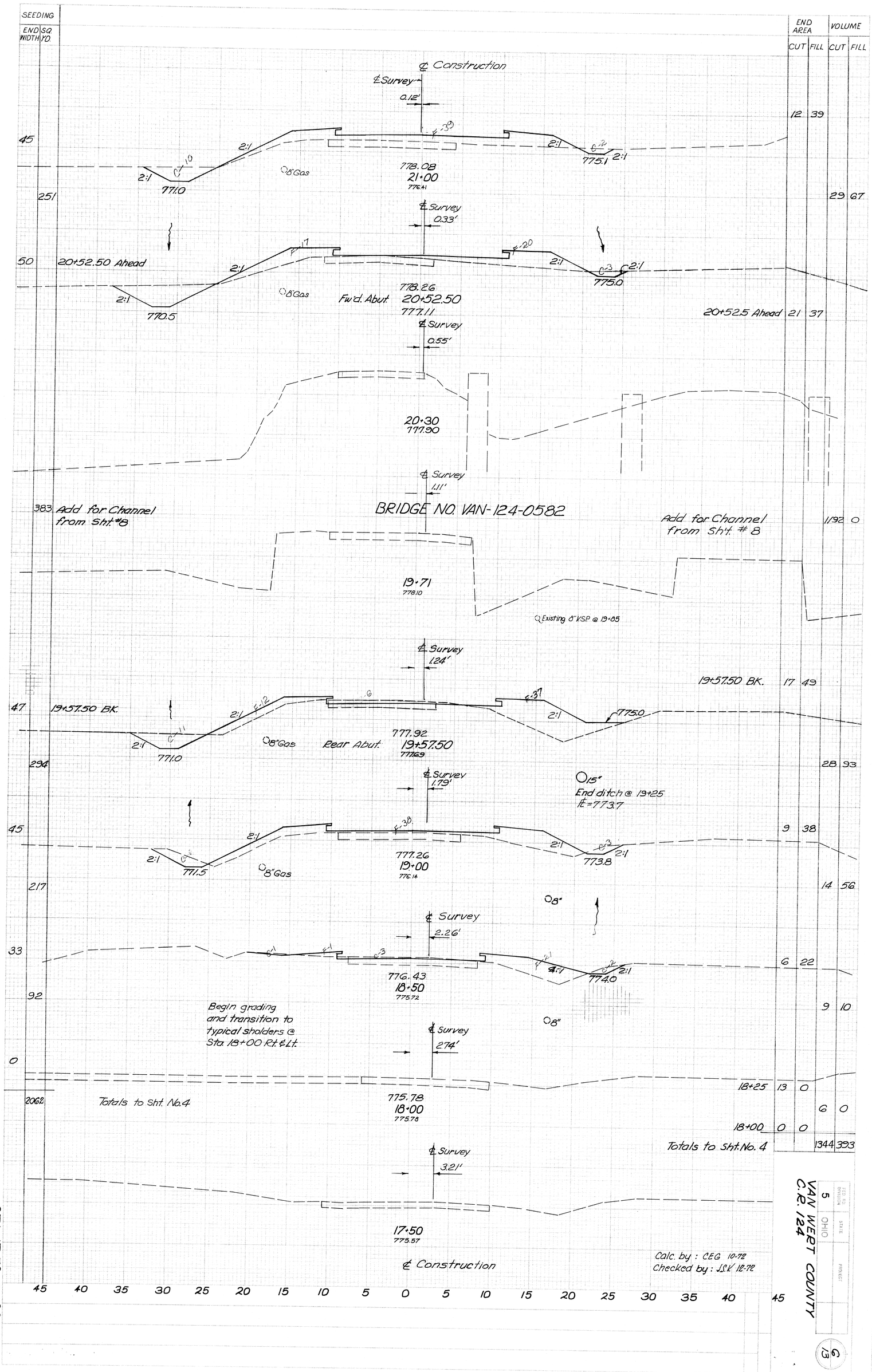
Calc. by : J.S.K 10-72
Checked by : A.D.J 12-72



1-D	19+01	Rt.	3-D	19+69	Lt.
2-D	19+25	Rt.	4-D	20+26	Lt.
1-G	18+32.50	19+57.50	Rt.	5-D	20+25	Rt.
2-G	18+52.50	19+57.50	Lt.			
3-G	20+52.50	21+70.00	Rt.			
4-G	20+52.50	22+02.50	Lt.			

GOG	Bridge Terminal Assembly Type "B"	Each	1	1	1
GOG	Anchor Assembly	Each	1	1	1
GOG	Guard Rail Type 5	L.F.	100	80.0	92.5	125
604	Std. No. 2-2-A, C.B. Mod. as per plan	Each	1			
603	Bends & Branches	L.F.	1-8"(30°)			
603	15" Cond't. Type "C"	L.F.	50			
603	8" Conduit Type "C"	L.F.	24			
602	Concrete Masonry	C.Y.	3	025		
601	Rock Channel Protection	C.Y.				

7			
6			
8			


SEEDING
END WIDTH
SQ. YD.
END AREA
VOLUME
CUT
FILL
℄ Construction
℄ Survey
0.12'
778.08
21+00
776.41
775.1
771.0
2:1
8"Gas
℄ Survey
0.33'
778.26
Fwd. Abut 20+52.50
777.11
775.0
770.5
20+52.50 Ahead
℄ Survey
0.55'
20+30
777.90
℄ Survey
1.11'
BRIDGE NO. VAN-124-0582
383 Add for Channel from Sht. #8
Add for Channel from Sht. # 8
19+71
778.10
Existing 8" VSP @ 19+85
℄ Survey
1.24'
19+57.50 BK.
777.92
Rear Abut 19+57.50
777.69
775.0
771.0
℄ Survey
1.79'
15"
End ditch @ 19+25
FE=773.7
777.26
19+00
776.14
773.8
771.5
8"Gas
8"
℄ Survey
2.26'
776.43
18+50
775.72
774.0
Begin grading and transition to typical shoulders @ Sta 18+00 Rt. & Lt.
℄ Survey
2.74'
775.78
18+00
775.78
Totals to Sht. No. 4
℄ Survey
3.21'
17+50
775.57
℄ Construction
18+25
18+00
Totals to Sht. No. 4
1344 393
45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45
STA 17+50-21+00
Calc. by : CEG 10-72
Checked by : JSV 12-72
VAN WERT COUNTY
C.2.124
OHIO
5
6/13

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		8	0
0	0	13	3
18	0	12	20
9	7	8	29
4	14	9	47
4	17	16	68
5	34	12	39
12	39		

FED. RD. DIVISION	STATE	PROJECT
5	OHIO	

7/13

VAN WERT COUNTY
C.R. 124

Calc. by: C.E.G. 10-72
Checked by: J.P.K. 10-72

Grade to existing ground at 23+50 Rt. & Lt.

23+50 — ℄ Construction — 775.50

23+25 — ℄ Survey 2.50' — 775.38

23+00 — ℄ Survey 2.02' — 776.31 — 775.08

22+50 — ℄ Survey 1.55' — 776.76 — 776.28

22+00 — ℄ Survey 1.07' — 777.21 — 776.40

21+50 — ℄ Survey 0.60' — 777.66 — 776.25

21+00 — ℄ Construction — 775.2

SEEDING END AREA	SEEDING SQ. YDS
0	61
22	131
25	172
37	219
42	242
45	21+00

STA. 21+50-23+50

FED. RD. DIVISION	STATE	PROJECT	
5	OHIO		

8/13

VAN WERT COUNTY
C.R. 124

NOTE:
Seed Channel Slopes above Elev. 765.5

End Channel Grading Rt & Lt.

SEEDING END WIDTH	SEEDING 30'			END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
0				765 0	0		
	51	10+75				79	0
37			170	765 170	0		
	103	10+50				182	0
37			222	765 222	0		
41		10+25					
54	10+17 Ahead					269	0
			C-200				
			C-110	765 359	0		
		10+00					
						311	0
54	9+85 Back		312	765 312	0		
46		9+75					
						248	0
110							
33			0-223	765 223	0		
46		9+50		760		103	0
0							
407							
− 24	Deduct for Rock Channel Protection						
383	Carried to Sht. No. 6						
		9+25		765 0	0		
		Begin Channel Grading Rt. & Lt.		Totals Carried to Sht. No. 6		1192	0

Exist. Abut. — Prop. Abut. — 4-9 — 2:1 — Prop. Pier — Prop. Pier — Exist. Abut. — Prop. Abut.

Exist Wing Wall — 2:1 — Exist. Wing Wall — 2:1

Calc. by: C.E.G. 10-72
Checked by: J.S.K. 12-72

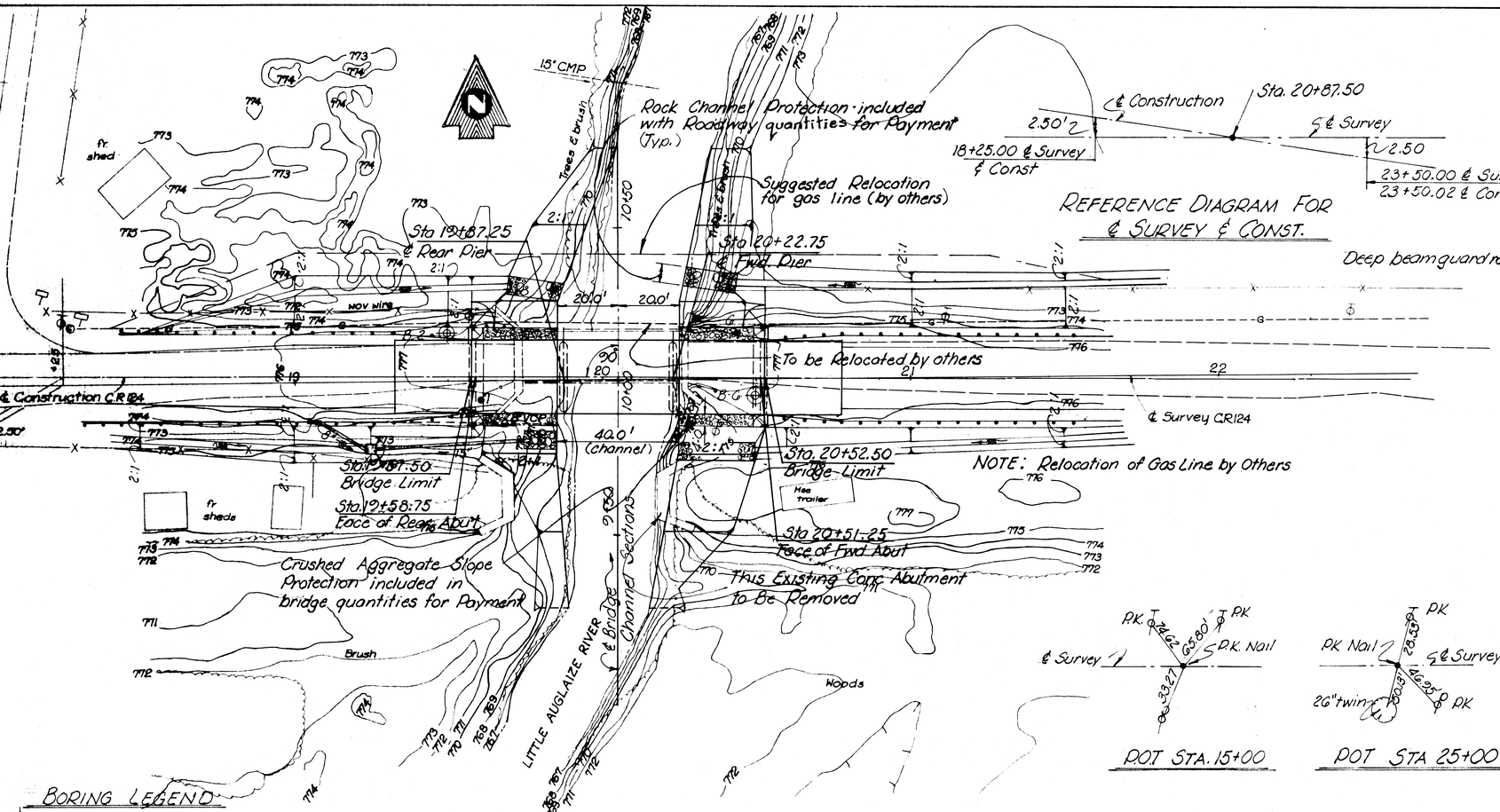
70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 760

CHANNEL CROSS SECTIONS

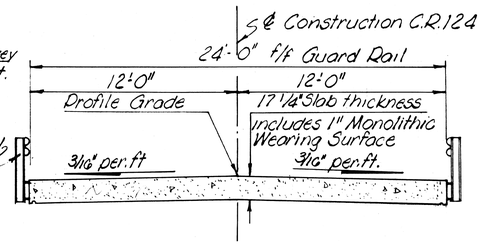
FED. RD. DIVISION	STATE	PROJECT	
	OHIO		

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VAN WERT COUNTY C.R. 124



REFERENCE DIAGRAM FOR ℄ SURVEY & CONST.



TYPICAL BRIDGE CROSS-SECTION

EARTHWORK limits shown are schematic. Actual slopes shall conform to Plan Cross Sections

POT STA. 15+00

POT STA 25+00

PROPOSED STRUCTURE	
Type	3 Span Continuous Slab Bridge with Reinforced Conc. Deck and Capped Pile Substructure
Spans	28'-6" ; 35'-6" ; 28'-6"
Roadway	24'-0" f/f Guard Rail
Loading	HS-20-44
Skew	0°-00'-00"
Wearing Surface	1" Monolithic Concrete
Approach slabs	25'-0" Long
Alignment	Tangent

BORING LEGEND
- Drive Sample Core Boring
- Drive Rod Penetration

PLAN

B.M. ELEV. 777.850 Chiseled "X" on S.E. Cor. of Bridge

Drainage Area = 68.7 sq. mi
Q50 = 3443 cfs
V50 = 3.0 fps

EXISTING STRUCTURE @ PROPOSED SITE To Be Removed

TYPE : Single span steel truss bridge concrete deck on steel floor beams and Stone abutments
LENGTH : 54.0' SKEW 0°00'

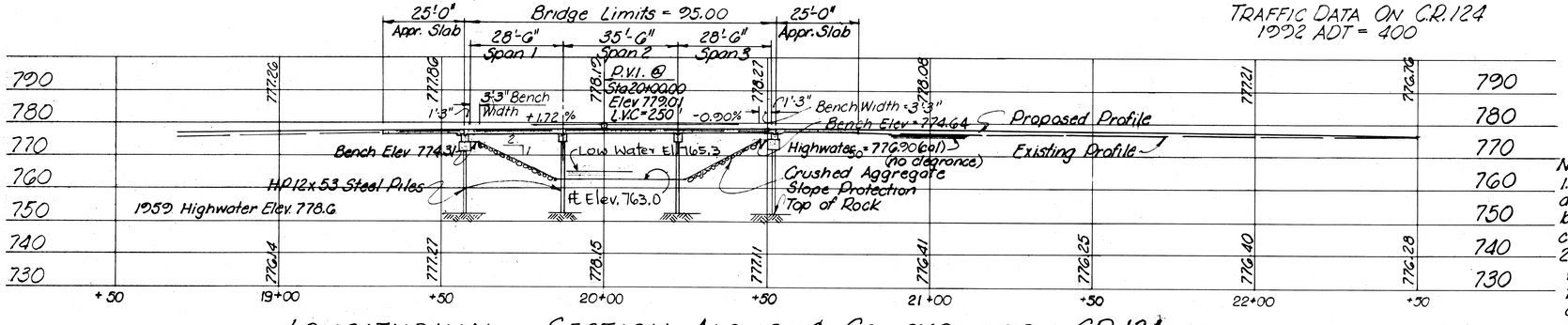
TRAFFIC DATA ON C.R. 124
1992 ADT = 400

EXISTING STRUCTURES

I. One mile upstream from CR124 on CR185
Type : 3 Span slab bridge with capped pile substructure
Length : 90.0' Skew 17°

II. .02 mile downstream from CR124 on Penn Central R.R.
Type : Single span girder bridge, wood deck on stone abutments
Length : 41.0' Skew 0°00'

.06 mile downstream from CR124 on CR185
Type : 2 span beam bridge with galv. metal deck & asphalt wearing surface
Length : 60.0' Skew 0°00'



LONGITUDINAL SECTION ALONG ℄ CONSTRUCTION C.R. 124 (Existing Structure not shown)

NOTES:
1. Existing Structure after removal shall become property of the contractor
2. This section of CR124 will be closed to traffic during construction

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SITE PLAN

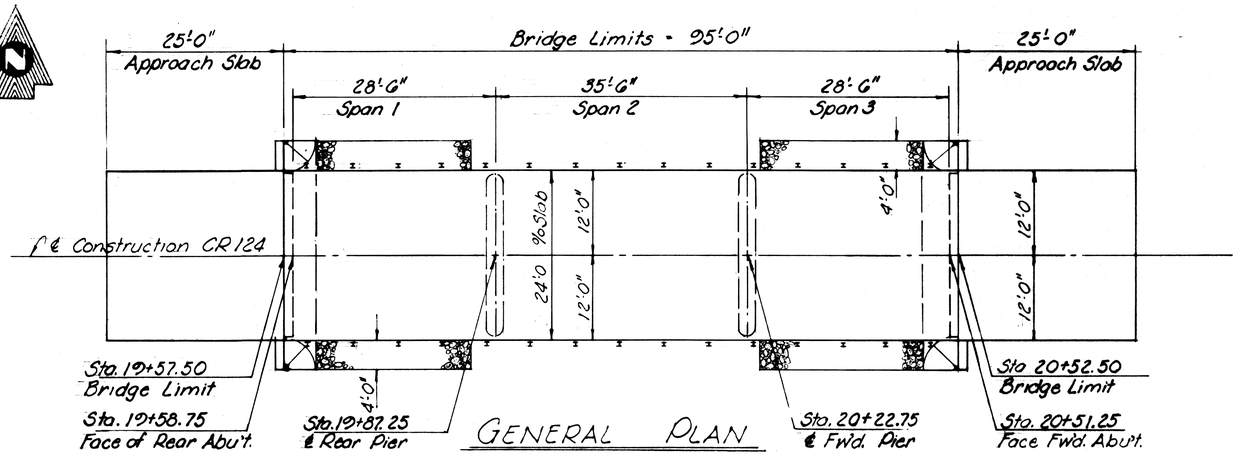
BRIDGE NO. VAN-124-0582
C.R. 124 OVER LITTLE AUGLAIZE R.
VAN WERT CO. STA 19+57.50 to 20+52.50

PRESENT TOPOGRAPHY		PROPOSED WORK			
SURVEYED	DRAWN	DESIGNED	DRAWN	CHECKED	REVIEWED
C.S.C.	J.A.H	K.R.R	J.T.B.	J.R.C.S.	J.C.P

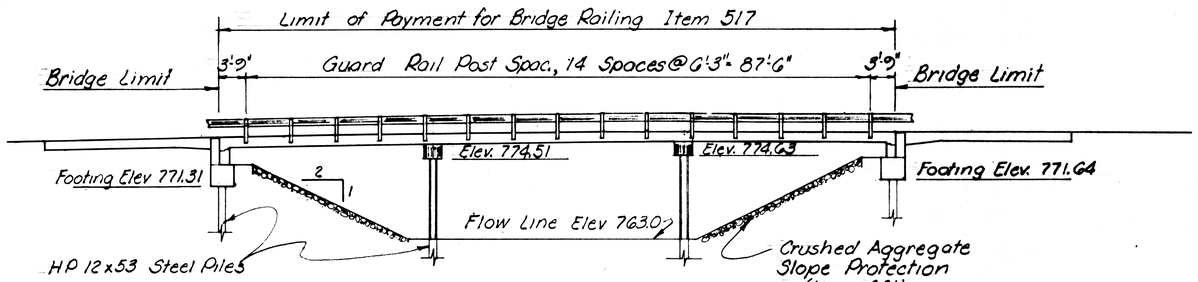
FED. RD. DIVISION	STATE	PROJECT	
	OHIO		

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VAN WERT COUNTY
CR 124



GENERAL PLAN



ELEVATION

ESTIMATED QUANTITIES

Item	Total	Unit	Description	Super	Abut.	Piers	Gen'l	As Built	
503	66	Cu. Yd.	Unclassified Excavation		66				
202	Lump	Sum	Structure Removed				Lump		
505	Lump	Sum	Test Pile				Lump		
507	540	Linft	HP 12 x 53 Steel Piles		250	290			
509	31,615	Lbs	Reinforcing Steel	25,649	3,979	1,987			
511	122	Cu. Yd.	Class "C" Concrete, Superstructure	122					
511	8	Cu. Yd.	Class "C" Concrete, Pier Caps			8			
511	35	Cu Yd	Class "C" Concrete, Abutments		35				
517	190.00	Lin.ft	Bridge Railing (Deep beam rail with steel post and bolts)	190.00					
518	6	Cu. Yds.	Porous Backfill		6				
601	182.	Sq Yds.	Crushed Aggregate Slope Protection		182				
808	122	Units	Chemical Admixture for Concrete Type A, B or D	122					

GENERAL NOTES

DESIGN SPECIFICATIONS

This structure conforms to "Standard Specifications for Highway Bridges" adopted by the American Association of State Highway Officals; 1969 including the Ohio "Supplement" to these Specifications

DESIGN DATA

Design Loading - - - - -	HS-20-44
Concrete Class "C" - - - - - -	Unit stress 1200 psi for Superstructure Unit stress 1333 psi for Substructure
Reinforcing Steel	A.S.T.M A615, A616 or A617 - unit stress 20,000 psi.. If bars in accordance with A.S.T.M 616 are provided, they shall be subject to bend test as per AASHO designation M 42-70

REFERENCE

shall be made to Standard Drawing DBR-1-71 dated 1-1-71 and AS-1-72 sheet 1 of 2 dated 6-30-72 and to Supplemental Specifications 808 dated 1-1-71 and 836 dated 1-1-71

PILES

shall be driven (with a hammer of not less than 11,000 ft. lbs. per blow for pier piles) to firm contact with bedrock. If the length of penetration is approximately equal to the depth to bedrock according to the bridge foundation investigation report, the firm contact shall be considered as attained when the capacity according to the formula in 507.05 is not less than the following value for a pile hammer of the indicated energy rating:

for the abutment piles: 35 tons per pile using a 7'000 ft lb hammer
27 tons per pile using a 11,000 ft lb hammer
23 tons per pile using a 15,000 ft lb. or greater hammer

For the pier piles: 70 tons per pile using a 11,000 ft lb. hammer.
64 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 22 tons per pile for abutment piles and 35 tons per pile for pier piles

PAINTING

of piers piles shall extend to elevation 765.00

UTILITY LINES

All expense involved in relocating the affected utility lines shall be borne by the owners. The contractor and owners are requested to cooperate by arranging their work in such a manner that inconvienence to either would be held to a minimum.

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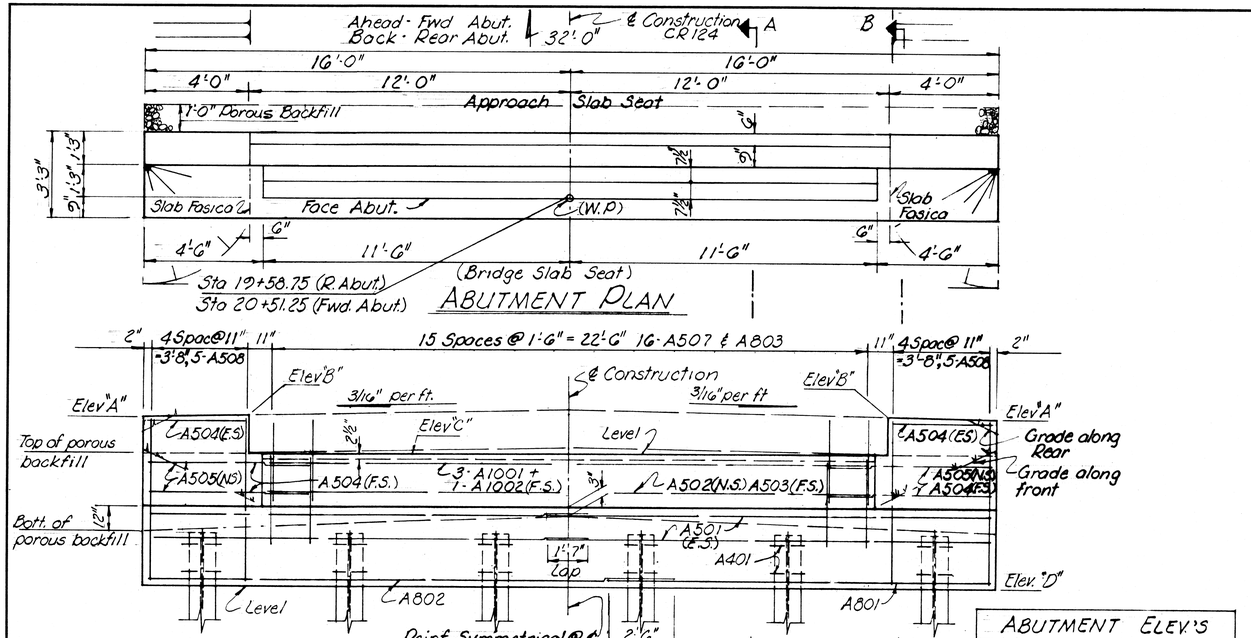
GENERAL PLAN, GENERAL NOTES AND ESTIMATED QUANTITIES
BRIDGE NO. VAN-124-0582
C.R. 124 OVER LITTLE AUGLAIZE R.
VAN WERT CO. STA 19+57.50 - 20+52.50

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
K.R.R.	J.T.B.		J.R.C.S. 10/25/72	J.C.P.	10/26/72	

FED. RD. DIVISION	STATE	PROJECT	
	OHIO		

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VAN WERT CO.
C.R. 124



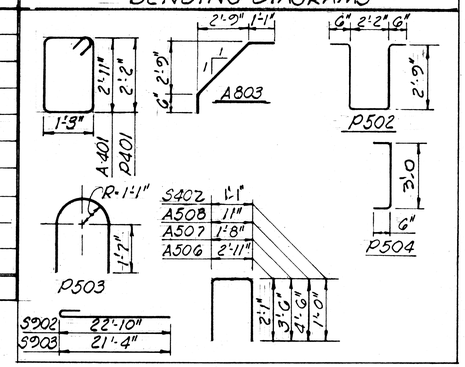
ABUTMENT ELEV'S		
Elev.	Rear Abut.	Fwd Abut
"A"	777.68	778.01
"B"	777.75	778.08
"C"	776.31	776.64
"D"	771.31	771.64

REINFORCEMENT SCHEDULE

Mark	Number Rear	Number Fwd	Number Total	Length	Shape	Ser. Incr.	Weight (Lbs)
ABUTMENTS							
A401	12	12	24	8'-9"	Bent		140
A501	8	8	16	16'-8"	Str.		278
A502	1	1	2	22'-8"	Str.		47
A504	8	8	16	3'-8	Str.		61
A505	4	4	8	5'-11"	Str		49
A506	58	58	116	6'-10"	Bent		827
A507	16	16	32	8'-5"	Bent		281
A508	10	10	20	9'-8"	Bent		202
A503	1	1	2	26'-2	Str.		55
A801	4	4	8	14'-4"	Str.		306
A802	4	4	8	19'-10"	Str.		424
A803	16	16	32	5'-6"	Bent		470
A1002	1	1	2	29'-6"	Str		254
A1001	3	3	6	22'-8"	Str.		585
Abutment Total							3,979
PIERS							
P401	12	12	24	7'-3"	Bent		116
P501	2	2	4	20'-6"	Str.		86
P502	20	20	40	8'-2"	Bent		341
P503	4	4	8	6'-7"	Bent		55
P504	2	2	4	3'-9"	Bent		16
P901	4	4	8	20'-6"	Str		558
P1001	4	4	8	23'-8"	Str		815
Piers Total							1987

Mark	Number	Length	Shape	Ser. Incr.	Weight (Lbs)
SUPERSTRUCTURE					
S401	96	23'-8"	Str.		1518
S402	150	2'-11"	Bent		292
S501	44	20'-0"	Str.		918
S502	22	18'-2"	Str.		417
S901	78	33'-5"	Str.		8862
S902	22	24'-1	Bent		1801
S903	20	22'-7"	Bent		1536
S904	11	22'-0"	Str.		823
S905	10	18'-6"	Str.		629
S1001	44	21'-5"	Str.		4055
S1002	22	11'-4"	Str.		1073
S1003	20	8'-2"	Str.		703
SG01	85	23'-8"	Str.		3022
Superstructure Total					25,649

BENDING DIAGRAMS



REPLACEMENT BAR LIST			
Mark	NO.	Length	Shape
RE401	1	6'-3"	Str.
RE501	1	6'-7"	Str.
RE601	1	6'-11"	Str.
RE801	1	7'-6"	Str.
RE901	1	7'-10"	Str.
RE1001	1	8'-3"	Str.

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ABUTMENT & PIER DETAILS REINFORCEMENT SCHEDULE

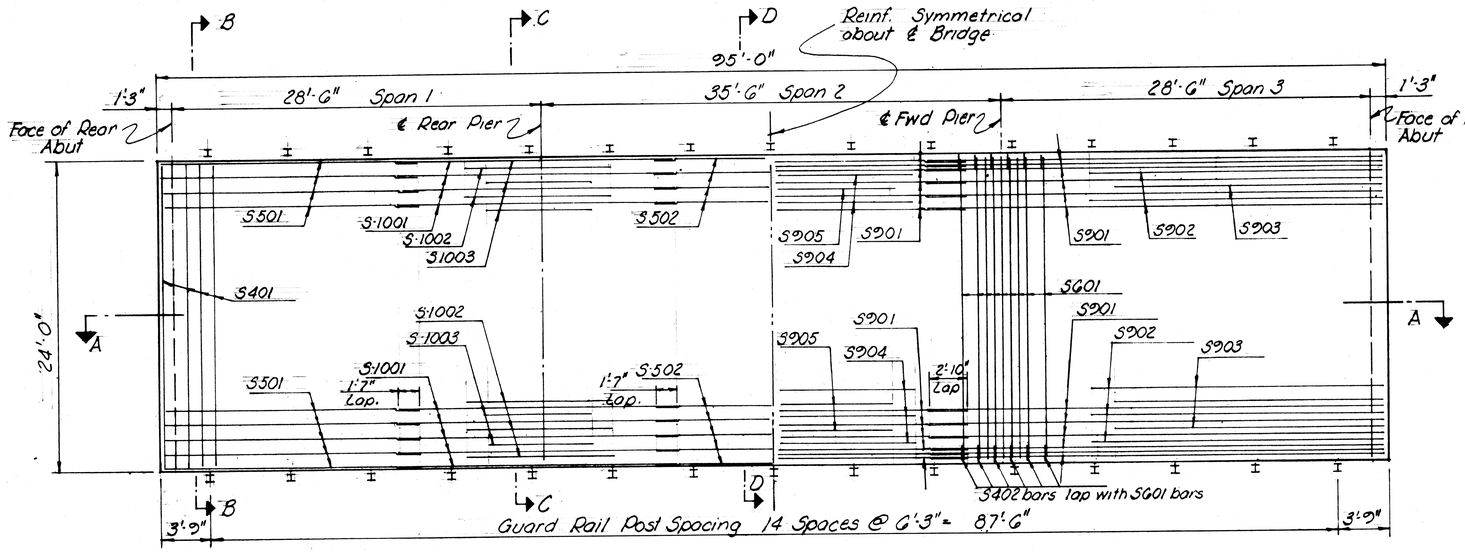
BRIDGE NO. VAN-124-0582
CR 124 OVER LITTLE AUGLAIZE R
VAN WERT CO STA 19+57.50 - 20+52.50

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
KRR	J.T.B		JRCS	JCP	10/24/72	

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	OHIO		

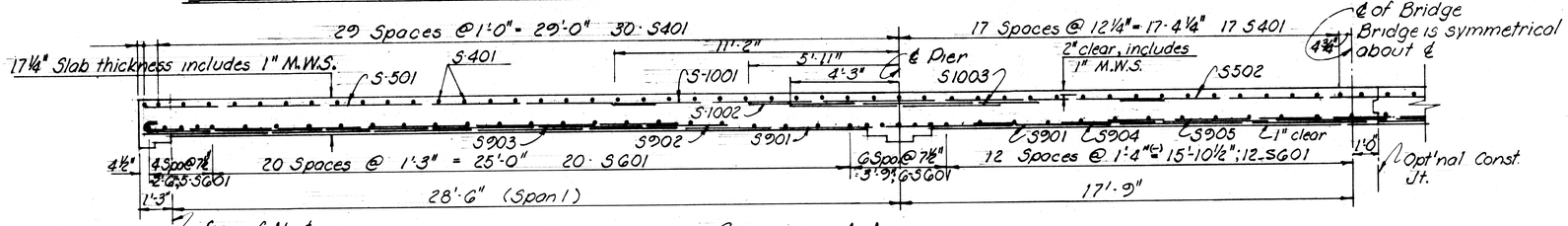
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VAN WERT COUNTY
C.R. 124

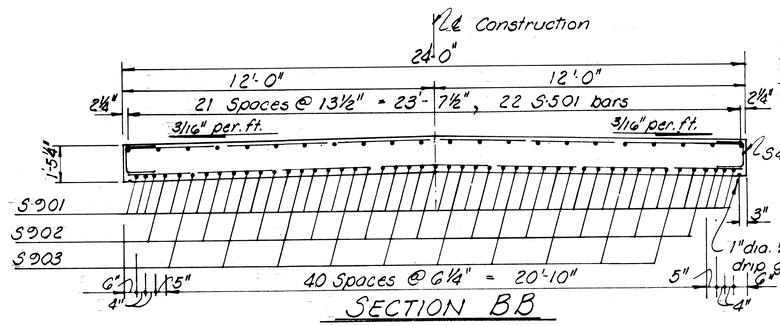


REINFORCEMENT TOP OF SLAB

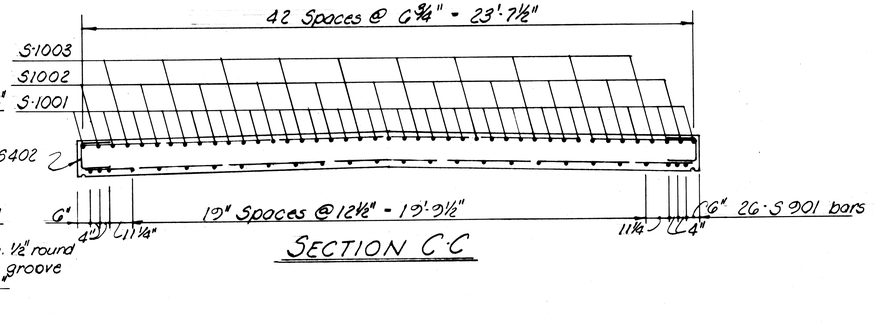
REINFORCEMENT BOTTOM OF SLAB



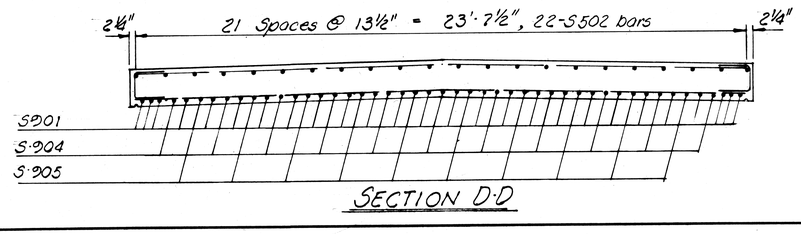
SECTION A-A



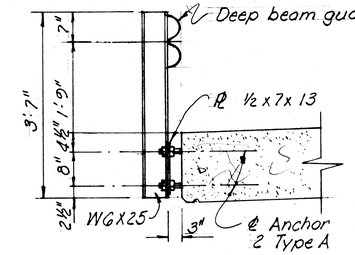
SECTION B-B



SECTION C-C

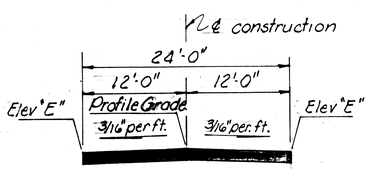


SECTION D-D



DEEP BEAM GUARD RAIL DETAIL

(For additional details see Std. Dwg DBR-1-71)



BRIDGE CROSS SECTION

FASCIA LINE ELEV. "E" BEFORE AND AFTER REMOVAL OF FALSEWORK

	Rear Abut.	Span 1 ¼	Span 1 ½	Span 1 ¾	Rear Pier	Span 2 ¼	Span 2 ½	Span 2 ¾	Fwd. Pier	Span 3 ¼	Span 3 ½	Span 3 ¾	Fwd. Abut.
fascia line Elev. 'E' @ top of Conc. before removal of falsework	777.75	777.82	777.88	777.90	777.94	778.01	778.04	778.07	778.07	778.06	778.10	778.10	778.08
fascia line Elev. 'E' @ top of Conc. after removal of falsework (finished)	777.75	777.80	777.86	777.90	777.94	777.99	778.02	778.05	778.07	778.08	778.08	778.08	778.08

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SUPERSTRUCTURE DETAILS

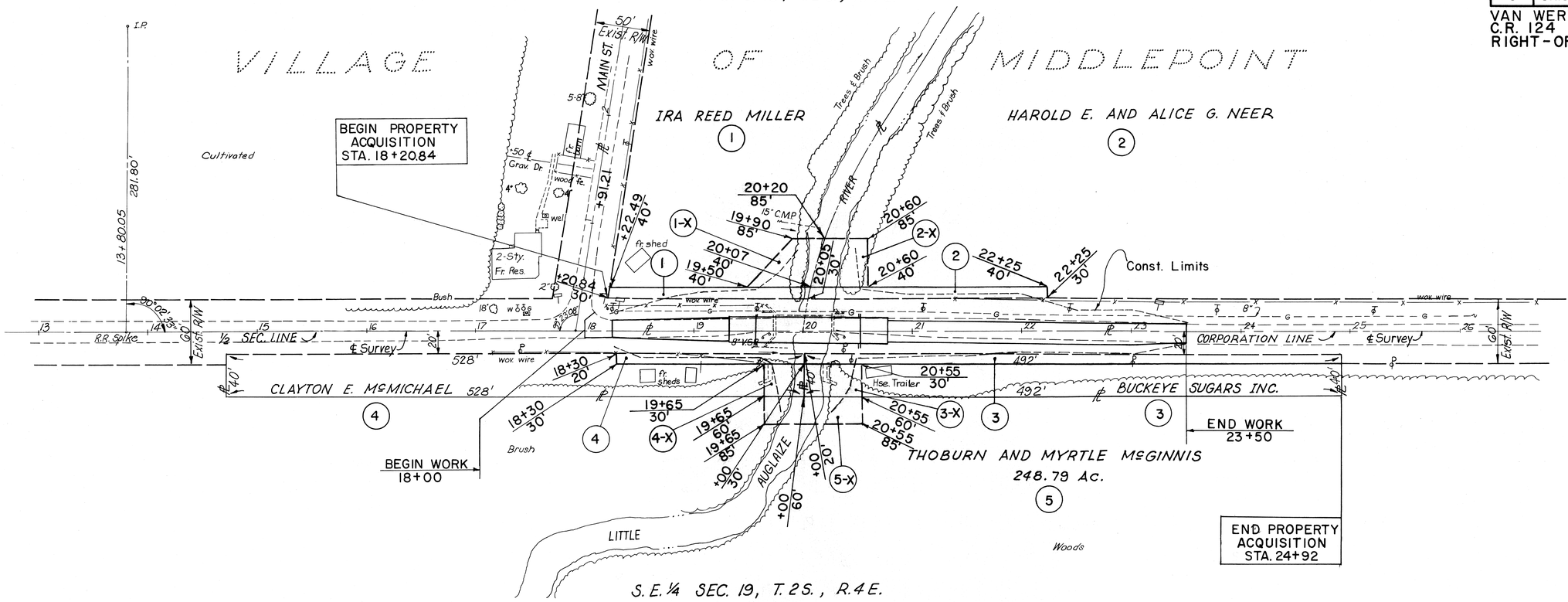
BRIDGE NO VAN-124-0582
C.R. 124 OVER LITTLE AUGLAIZE R.
VAN WERT CO STA 19+57.50 - 20+52.50

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
KRR	J.T.B		J.R.C.S	J.C.P	10/26/72	

FED. RD. DIVISION	STATE	PROJECT	
5	OHIO		

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VAN WERT COUNTY
C.R. 124
RIGHT-OF-WAY PLAN



SUMMARY OF ADDITIONAL RIGHT-OF-WAY

PARCEL NO.	OWNER	RECORDED VOL.	RECORDED PAGE	DEED AREA	NET TAKE LAND	NET TAKE BLDG.	REMARKS
1	IRA REED MILLER	187	50		.042Ac.	No	
1-X					.045Ac.	No	Agreement for Channel Change
2	HAROLD E. and ALICE G. NEER	187	63		.050Ac.	No	
2X					.048Ac.	No	Agreement for Channel Change
3	BUCKEYE SUGAR INC.	152	580		.113Ac.	No	
3X					.038Ac.	No	Agreement for Channel Change
4	CLAYTON E. Mc MICHAEL	180	782		.039Ac.	No	
4X					.024Ac.	No	Agreement for Channel Change
5X	THOBURN and MYRTLE McGINNIS				.052Ac.	No	Agreement for Channel Change

GEOLOGY OF THE SITE

THE STRUCTURE SITE IS LOCATED IN THE RELATIVELY FLAT GLACIATED LAKE PLAIN REGION, ON THE FLOODPLAIN AND OVER LITTLE AUGLAIZE RIVER, IN AN AREA WHERE MODERATELY DEEP GLACIAL-DERIVED SOILS OVERLIE LIMESTONE BEDROCK, OF THE MONROE GROUP.

EXPLORATION

THE EXPLORATION CONSISTED OF TWO DRIVE SAMPLE-CORE BORINGS AND TWO DRIVE ROD PENETRATION TESTS, MADE BETWEEN AUGUST 22 AND 24, 1972.

INVESTIGATIONAL FINDINGS

BORINGS DISCLOSED THAT RELATIVELY FLAT-LYING BEDROCK SURFACE, ENCOUNTERED AT 25-DEPTHS, ELEVATIONS 752 AND 751 FEET, IS OVERLAIN BY SOFT TO VERY STIFF CLAYS WITH SANDS AND GRAVELS AND COBBLES OCCURRING IMMEDIATELY ABOVE BEDROCK SURFACE. THE BORINGS WERE TERMINATED AT 30-FOOT DEPTHS, ELEVATION 747 FEET, AFTER PENETRATING 5 FEET BELOW BEDROCK SURFACE.

ROD SOUNDINGS ENCOUNTERED GRADUAL INCREASE IN PENETRATION RESISTANCE WITH INCREASE IN DEPTH, AND WERE TERMINATED UPON ENCOUNTER WITH HIGH RESISTANCE TO PENETRATION AT 20-FOOT DEPTHS, ELEVATIONS 758 AND 757 FEET, CONSIDERED TO BE IN VERY DENSE MATERIAL, AS REVEALED BY THE BORINGS.

NO FREE WATER OBSERVATIONS WERE MADE IN ANY OF THE ROD SOUNDING HOLES.

LEGEND

- Auger Boring Location - Plan View.
- Press and / or Drive Sample and / or Core Boring Location - Plan View.
- Drive Rod Penetration Resistance Sounding Location - Plan View.
- Capped Pile
- Footing
- Footing on Pile
- TR — Top of Rock
- Horizontal Bar on Boring Log Indicates the Depth the Sample Was Taken.
- X/Y — Figures Beside the Boring Log in Profile Indicate the Number of Blows for Standard Penetration Test. X = Number of Blows for First 6 inches. Y = Number of Blows for Second 6 inches.
- Drive Rod Penetration Resistance Sounding Log - Profile
- Casing
- Resistance "R" < 10,000 lbs.
- Resistance "R", > 10,000 lbs.
- Z — Indicates Final Measurement of Penetration, in Inches.
- W — Indicates Free Water Elevation.
- Indicates Static Water Elevation.

SYMBOLS OF ROCK TYPES

- Coal
- Weathered Mudstone or Claystone
- Mudstone or Claystone
- Weathered Shale
- Shale
- Weathered Siltstone
- Siltstone
- Weathered Sandstone
- Sandstone
- Leached Dolomite
- Dolomite
- Leached Limestone
- Limestone
- Boulders or Cobbles

GENERAL INFORMATION

Drive Rod Penetration Sounding Tests

Drive rod penetration resistance tests constitute driving a 1.315-inch diameter steel rod, with a 45° cone point, into the ground, using a 122-pound drop-hammer with a free fall of five feet. At one or two-foot depth intervals, a measurement is taken to determine the amount of penetration achieved in three hammer drops. This reading is converted to an empirical value for capacity "R", in thousands of pounds (which is a measure of both the point resistance and frictional resistance on the rod), by using charts prepared by the Ohio Department of Highways, Bureau of Bridges, on the basis of correlation study of rod penetration with past performance of pile driving. For interpretation, a graph is prepared by plotting the value "R" against the depth at which the reading was taken, and connecting the plotted points. The curve so obtained reflects the density of subsurface materials in a manner that can be readily compared with data from similar tests at other locations on the structure site. From this comparison, the overall uniformity of subsurface condition may be evaluated.

Drive Sample Borings - Drive-Press Sample Borings

Drive sample borings are made by means of a rotary-type drill rig, employing a 2" O.D., 1-3/8" I.D. sampler, at 2-1/2 and / or 5-foot depth intervals, driven by means of a 140 - pound drop-hammer with a free fall of 30 inches. The number of blows required to drive the sampler 12 inches is considered the standard penetration test.

Drive-press sample borings are made by means of a rotary-type drill rig, employing a 2" O.D., 1-3/8" I.D. drive sampler, and 3" O.D. thin-wall press sampler. The press sampler is advanced by continuous uniform pressure, applied by the drill rig.

The boring log sheets show a graphic plot of the information obtained, including depth and elevation of the sample, number of blows for the standard penetration tests in two 6-inch increments, depth of press samples, field sample number, sample description - based on laboratory tests and the Casagrande AC classification system-and gradation, plasticity, and moisture content determinations. Results of strength and consolidation testing, if performed, appear on separate enclosures.

At depths where materials are bouldery or gravelly to the extent that the sampler can not be driven, a wash sample is procured for visual classification, in order to determine the general character of the material. These samples are not considered sufficiently representative to warrant laboratory testing.

Particle Size Definitions

Boulders	Cobbles	Gravel	Coarse Sand	Fine Sand	Silt	Clay
	12"	3"	2.0mm (No. 10 sieve)	0.42mm (No. 40 sieve)	0.074mm (No. 200 sieve)	0.005mm

LOG OF BORING

Date Started 8-23-72 — Sampler Type SS — Dia 1 3/8" — Water Elev. —
Date Completed 8-24-72 — Casing: Length 25' — Dia 3 1/2"
Boring No. B-2 — Station & Offset 19+50, 16' LT. (REAR ABUTMENT) — Surface Elev. 776.7'

Elev.	Depth	Std. Pen. (N)	Rec. ft.	Loss ft.	Description	Sample No.	% Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	W.C.	SHTL Class.
776.7	0														
	2														
	4														
771.7	6	2/2			GRAY SANDY CLAY	1	0	2	36	34	28	28	12	22	A-6a
	8														
766.7	10	1/2			BROWNISH-GRAY SANDY CLAY	2	0	7	27	37	29	27	11	22	A-6a
	12														
	14														
761.7	16	12/26			GRAY SANDY GRAVELLY CLAY	3	21	7	12	27	33	27	12	12	A-6a
	18														
756.7	20	10/25			GRAY SANDY GRAVELLY CLAY	4	29	8	17	33	13	22	11	10	A-6a
755.7	22				SAND AND SMALL GRAVEL (DRILLER'S DESCRIPTION)										
	24				TOP OF ROCK										
751.2	26	W.S.			GRAY SAND	5	0	98	2	-	-	NP	NP	25	A-3a
	28		4.3	0.2	LIMESTONE, HARD, BROWN, MEDIUM-BEDDED, CAVERNOUS, CRYSTALLINE. CORE LOSS 4.5%.										
746.7	30				BOTTOM OF BORING										

LOG OF BORING

Date Started 8-22-72 — Sampler Type SS — Dia 1 3/8" — Water Elev —
Date Completed 8-23-72 — Casing: Length 25' — Dia 3 1/2"
Boring No. B-5 — Station & Offset 20+50, 06' RT. (FORWARD ABUTMENT) — Surface Elev. 777.0'

Elev.	Depth	Std. Pen. (N)	Rec. ft.	Loss ft.	Description	Sample No.	% Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	W.C.	SHTL Class.
777.0	0														
	2														
774.5	4	3/3			BROWNISH-GRAY SILTY CLAY	1	3	5	12	37	43	39	17	18	A-6b
772.0	6	3/4			BROWN SILTY CLAY	2	0	2	14	40	44	40	19	22	A-6b
	8														
767.0	10	2/1			BROWNISH-GRAY SILTY CLAY	3	0	3	17	49	31	34	16	23	A-6b
	12														
	14														
762.0	16	22/28			GRAY SILT AND CLAY	4	-	-	-	-	-	27	12	26	A-6a
	18														
757.0	20	50/			GRAY GRAVELLY SANDY SILT	5	22	13	21	32	12	15	4	9	A-4a
754.0	22														
752.0	24				BROKEN LIMESTONE. TOP OF ROCK										
	26	50(0.1)													
	28		5.0	0.0	LIMESTONE, HARD, BROWN, MEDIUM-BEDDED, CAVERNOUS, CRYSTALLINE. NO CORE LOSS.										
747.0	30				BOTTOM OF BORING										

NOTE: Information shown by this subsurface investigation was obtained solely for the use in establishing design controls for the project. The State of Ohio does not guarantee the accuracy of this data and it is not to be construed as a part of the plans governing construction of the project.

OHIO DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
1600 WEST BROAD STREET, COLUMBUS, OHIO 43223

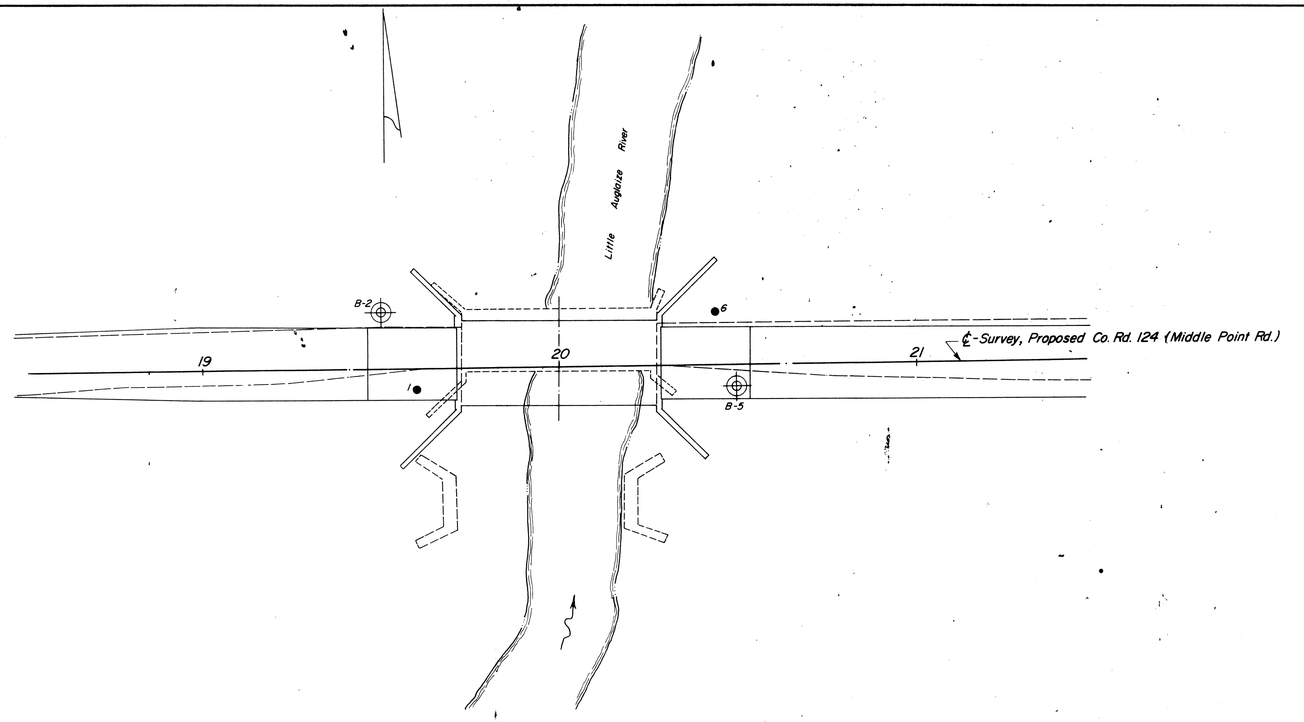
STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO. VAN-CO. RD. 124
OVER LITTLE AUGLAIZE RIVER
SEC. VAN-CO. RD. 124

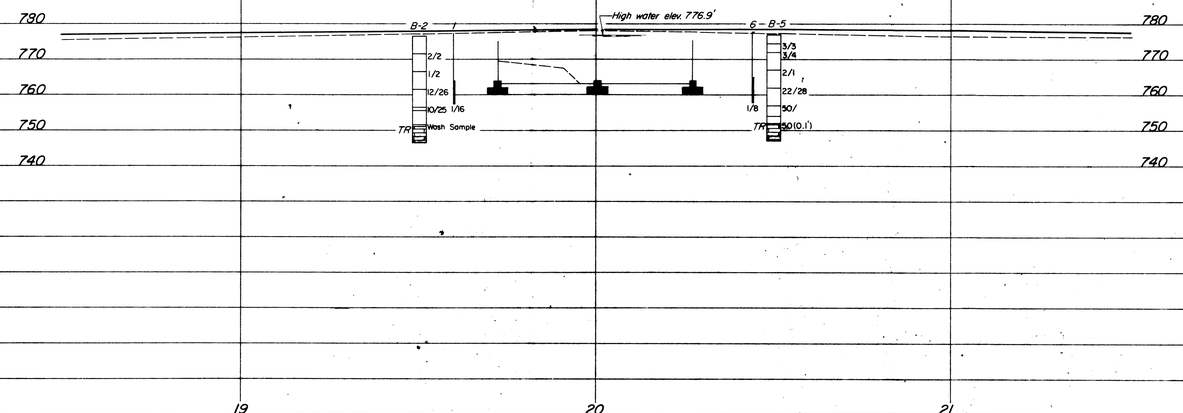
CHECKED BY	REVIEWED BY	DATE
R. D. R.	G. P. H.	9/6/72

TE - 119
1000 - 12- 69

VAN-CO. RD. 124

2/3





SCALE: 1" = 20'

OHIO DEPARTMENT OF HIGHWAYS TESTING LABORATORY 1600 WEST BROAD STREET, COLUMBUS, OHIO 43223			
STRUCTURE FOUNDATION INVESTIGATION BRIDGE NO. VAN-CO. RD. 124 OVER LITTLE AUGLAIZE RIVER SEC. VAN-CO. RD. 124			
PLAN AND PROFILE			
DRAWN BY L. N. L.	CHECKED BY R. D. R.	REVIEWED BY G. P. H.	DATE 9/6/72

Test Location No. ____
Station & Offset ____
Surface Elev. ____ Water Elev. ____
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition ____

782 778 774 770 766 762 758 754

10 20 30 40 50 60 70 80 90 100
Capacity "R" in Thousands of Pounds

Test Location No. ____
Station & Offset ____
Surface Elev. ____ Water Elev. ____
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition ____

10 20 30 40 50 60 70 80 90 100
Capacity "R" in Thousands of Pounds

Test Location No. ____
Station & Offset ____
Surface Elev. ____ Water Elev. ____
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition ____

10 20 30 40 50 60 70 80 90 100
Capacity "R" in Thousands of Pounds

Test Location No. ____
Station & Offset ____
Surface Elev. ____ Water Elev. ____
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition ____

10 20 30 40 50 60 70 80 90 100
Capacity "R" in Thousands of Pounds

Test Location No. ____
Station & Offset ____
Surface Elev. ____ Water Elev. ____
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition ____

774 770 766 762 758 754

10 20 30 40 50 60 70 80 90 100
Capacity "R" in Thousands of Pounds

Test Location No. ____
Station & Offset ____
Surface Elev. ____ Water Elev. ____
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition ____

10 20 30 40 50 60 70 80 90 100
Capacity "R" in Thousands of Pounds

Test Location No. 1
Station & Offset 19+60.6 RT. REAR ABUTMENT
Surface Elev. 777.4 Water Elev. ____
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition ____

TEST ROD

10 20 30 40 50 60 70 80 90 100
Capacity "R" in Thousands of Pounds

Test Location No. 6
Station & Offset 20+44.15 LT. FORWARD ABUTMENT
Surface Elev. 777.8 Water Elev. ____
VAN-CO. RD. 124
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition POINT ROD BENT

774 770 766 762 758 754

TEST ROD

10 20 30 40 50 60 70 80 90 100
Capacity "R" in Thousands of Pounds

3/3
3/3

OHIO STATE HIGHWAY TESTING LABORATORY
1600 WEST BROAD ST. COLUMBUS, OHIO 43223

STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO. VAN-CO. RD. 124 OVER LITTLE AUGLAIZE RIVER
SEC. VAN-CO. RD. 124

DRIVE ROD PENETRATION RESISTANCE DATA

PLOTTED BY	CHECKED BY	REVIEWED BY	DATE
R. C.	R. D. R.	G. P. H.	9/6/72

SCOTT GRAPHICS I M 4-72 50827»