

The following files were not included in your MultiPage PDF

oge-b129-9397-300.tif.pdf(DocID: 291030) - Failed in converting to PDF

1962

Year

Job. No.

02513

Changes

from 13093

009397

County

WOOD.

Bridge No.

Woo-25-0717.

Section

Woo-25-5.20.

Location

 over under

RAY'S ROAD

File No.

FES-74
4-L-40

DESIGN BY SANZENBACHER, MILLER & BRIGHAM

	RECON	AUGER	CORE	DRIVE ROD
By			VANFOSSEN, RAY	
Dates			10/2/62	10/10-11/62
No. of Holes or Soundings			2	10
Footage			70.0	156.
Samples Tested			15	<input checked="" type="checkbox"/> Samples Accounted For

SITE PLANS	
Date Rec'd	8-28-62
Revised Plan	

Topo Sheet _____

Transmittal Date 12-10-62

No. of Tracings _____ Filed with year _____

Revisions _____

Remarks _____

Refer To _____

Auger Data			Drive Rod		Core Data		
No. of Holes	Footage	Samples	No. of Soundings	Footage	No. of Holes	Footage	Samples
—	—	—	10	156.0	2	70.0	15



STATE OF OHIO

Department of Highways

COLUMBUS 15

MICHAEL V. DISALLE
GOVERNOR

E. S. PRESTON
DIRECTOR

December 10, 1962

Sanzensbacher, Miller and Brigham
P.O. Box 5690
Warnart Branch
Toledo 13, Ohio

Attention: Mr. Frederick Miller

Re: Structure Foundation Investigation
WOO-25-0717
Under Bays Road
Fed. Proj. No. I-75-6(12)170

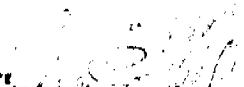
File: 13-4-1
Weed

Gentlemen:

Transmitted herewith are the results of the foundation investigation made for the Bays Road structure over USR 25, on project WOO-25-5.20.

Very truly yours,

R. R. Litchner
Engineer of Tests

Per: 
George F. Hall
Assistant Engineer

MVR:FLR:cbw
Encl.

- cc: R. E. M. des Islets (no encl.)
- D. H. Overman, Attn: C. H. Altwater
- G. K. Lieber, Attn: E. M. White
Attn: J. W. Koch
Attn: E. L. Langenderfer (no encl.)
- Ohio State Geological Survey, Attn: Karl Hoover
- R. S. Johnson (3 encl.)
- R. E. Calvin (4)

COPY

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
FOUNDATION EXPLORATION SECTION

Structure Foundation Investigation

WOO-25-0717

UNDER RAYS ROAD

GEOLOGY OF THE SITE

The structure site is located on the flat glaciated Lake Plain Region, where glacial-derived soils overlie dolomite bedrock, of Silurian age.

EXPLORATION

The exploration consisted of two drive sample-core borings and ten drive rod penetration tests, made on October 2, 10 and 11, 1962.

INVESTIGATIONAL FINDINGS

The borings disclosed moist and very moist, loose to very dense gravelly, sandy and clayey silts and an occasional interval of sand and stiff to hard sandy and gravelly clays, above bedrock surface, encountered at 25-foot depth, elevations 662 and 661 feet.

The rod soundings generally met increasing and occasionally erratic resistance to penetration with increase in depth and were terminated upon encounter with refusal or abrupt refusal to penetration at 14 to 17-foot depths, elevations 671 to 667 feet, considered to be in very dense sandy silt or silt, as revealed by the borings.

On the basis of the tests, bedrock surface is considered to be essentially flat-lying across the site, between elevations 662 and 661 feet.

No free water was observed in the test holes.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TRAINING LABORATORY
FOUNDATION CALIBRATION SECTION

FOUNDATION INVESTIGATIONAL PROCEDURE 3

Standard Drive Rod Penetration Tests

Drive rod penetration resistance tests constitute driving a 1.5-inch diameter steel rod, with a 30° cone point, into the ground, using a 140 pound drop-hammer with a free fall of 30 feet. At one-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 "N", 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 "N" against the depth at which the reaction was taken, 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 general uniformity of subsurface conditions may be evaluated.

Drive Sample Borings

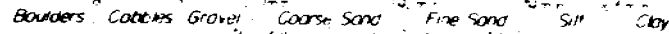
Drive sample borings are made by means of a rotary-type drill rig, employing a 2" O. D., 1-1/8" I. D. sampler, at 2-1/2 and/or 3-foot depth intervals, driven by means of a 140 pound drop-hammer, with a free fall of 30 inches. The number of blows required to drive the sampler 12 inches is considered the standard penetration test. 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, laboratory sample number, sample description - based on laboratory test results and the Casagrande AC classification system - and the results of laboratory testing which consists of penetration, plasticity, and moisture content determinations. At depths where the drift is bouldery or gravelly to the extent that the sampler cannot 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.

SYMBOLS FOR SOIL CLASSIFICATION AND ROCK TYPES

G Gravel	CGS Clayey Gravelly Sand	M Silt	C Clay	Shale
SG Sandy Gravel	S Sand	CM Clayey Silt	Organic Clay	Weathered Sandstone
MG Silty Gravel	MS Silty Sand	GC Gravelly Clay	Peat	Sandstone
CG Clayey Gravel	CS Clayey Sand	SGC Sandy Gravelly Clay	Boulders or Cobbles	Limestone
MSG Silty Sandy Gravel	GM Gravelly Silt	GSC Gravelly Sandy Clay	Coal	Dolomite
CSG Clayey Sandy Gravel	SGM Sandy Gravelly Silt	SC Sandy Clay	Weathered Indurated Clay	
GS Gravelly Sand	GSM Gravelly Sandy Silt	MC Silty Clay	Indurated Clay	
MGS Silty Gravelly Sand	SM Sandy Silt	MBC Silt and Clay	Weathered Shale	

T/R - Top of Rock

Particle Size Definitions



Casing
Resistance 'R' < 10,000 lbs.
Resistance 'R' > 10,000 lbs.
Indicates final measurement of 16 penetration in inches (SF)
Indicates aggregate size particles consist of stone fragments rather than gravel

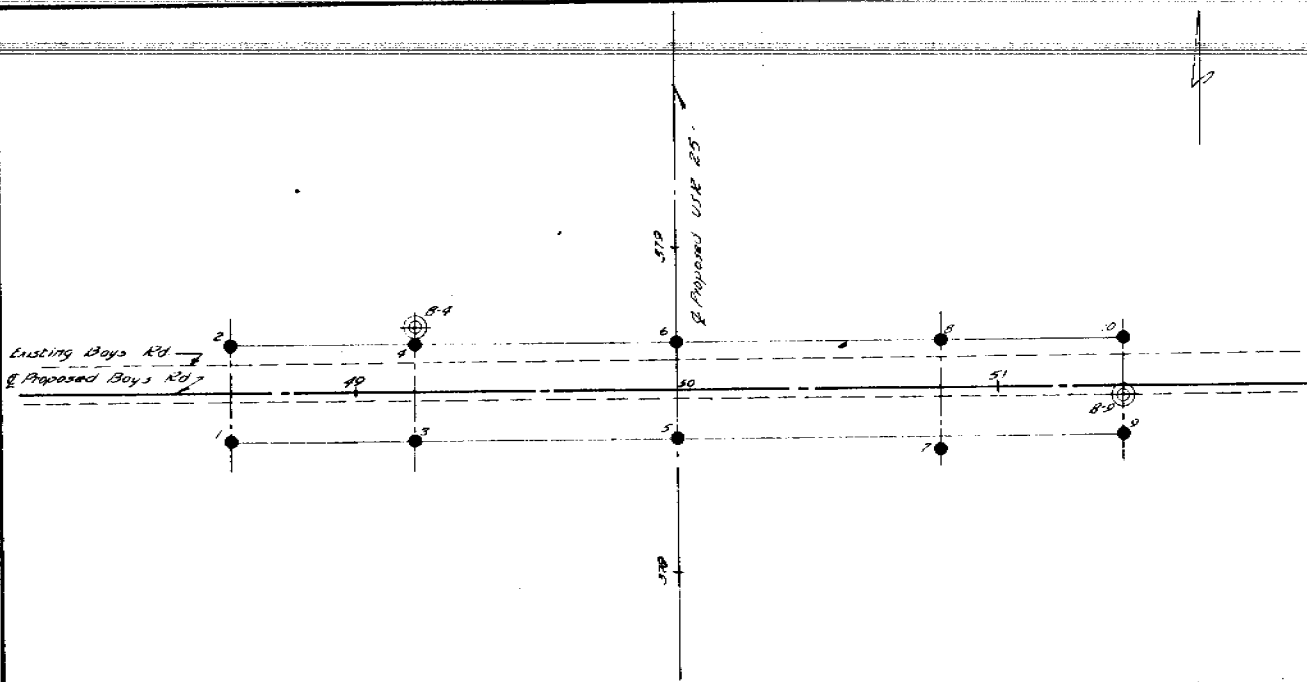
- Auger Boring - Plan View
- Press-Drive Sample - Core Boring - Plan View
- Drive Rod Penetration Resistance Soundings - Plan View
- A Indicates Auger Boring
- B Indicates Press-Drive Sample - Core Boring

horizontal bar on boring log indicates the depth the sample was taken
 X
Y
 Figures to the left of boring log in profile view:
 X = Plastic Limit
 Y = Moisture Content
 P
Q
 Figures to the right of boring log in profile view indicate the number of blows for "Standard Penetration Test"
 P = First 6 inches
 Q = Second 6 inches

- Soil Index Topsoil - Visual Classification
- Berm material - Visual Classification
- W Indicates Free Water elevation
- Indicates Static Water elevation
- Footings
- Capped pile
- Footings on pile

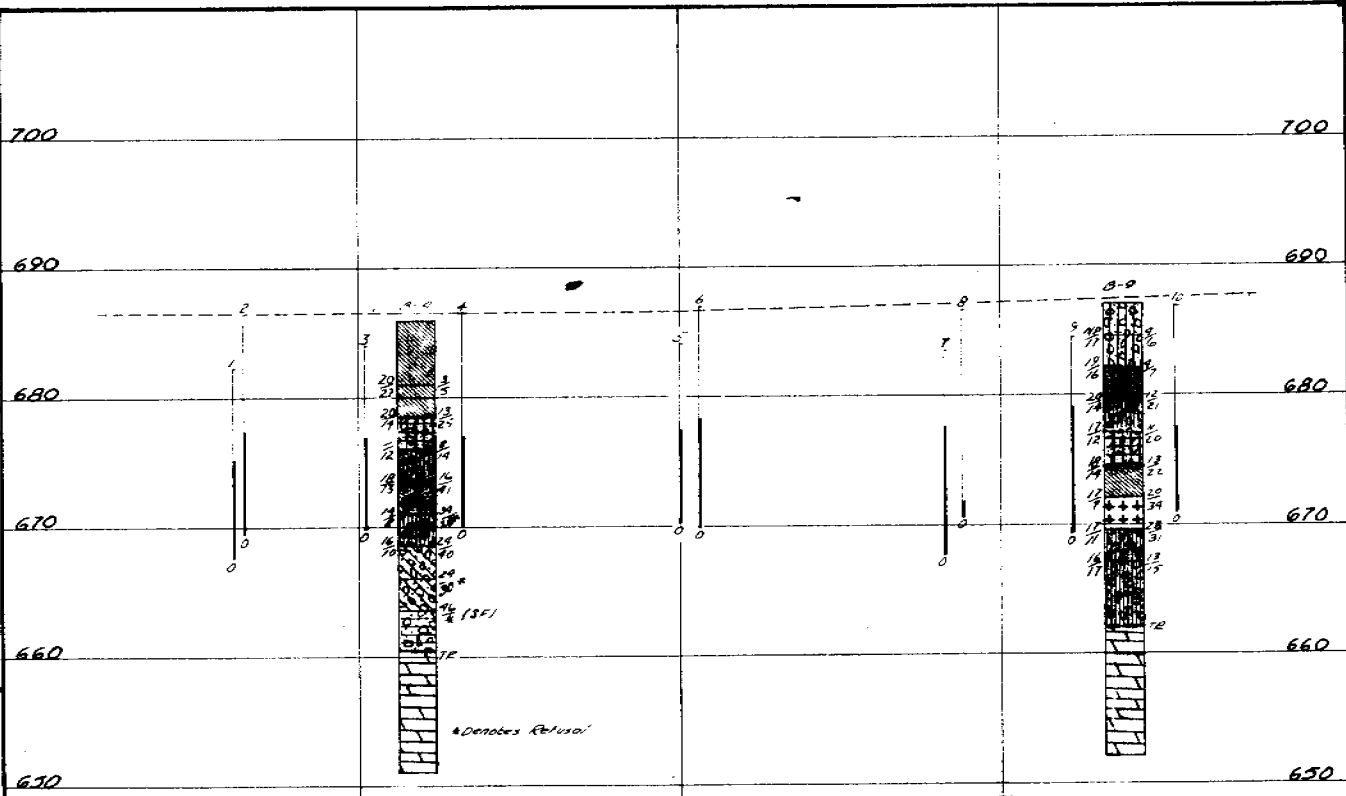
**N00-25-0717
UNDER
BAYS ROAD**

Drafting By RLF/RLM/GWT



BORING PLAN
SCALE: 1"=40'

100-25-0717
UNDER
BOYS ROAD



SUBSURFACE PROFILE

HOR. SCALE: 1" = 40'

VERT. SCALE: 1" = 10'

W00-25-0717
 UNDER
 BAYS ROAD

2000 10 10 5 1000

State of Ohio
Department of Highways
Testing Laboratory

LOG OF BORING

Date Started 10-2-62 Sampler Type SS Dia 1 3/8" Water Elev. _____
Date Completed 10-2-62 Casing Length _____ Dia _____

Project Identification _____ WOOD
WOO-25-28
WOO-25-0717

Boring No. B-4 Station & Offset 49+18, 20' Lt. (REAR PIER) Surface Elev. 686.1

UNDER BAYS ROAD

Elev.	Depth	Sec Pen (in)	Spec R	Loss R	Description	Field No.	Lab. Nos. So.	Physical Characteristics							SHTL Class		
								% Agg.	% GS	% F.S.	% Silt	% Clay	LL	Pl.		W.C.	
686.1	0																
	2																
	4																
681.1	6	3/5			Brown & Gray Clayey Silt	1	93317	0	5	14	28	53	29	9	27		
678.6	8	13/25			Brown Sandy Gravelly Clay	2	93318	20	5	10	22	43	31	11	14		
676.1	10	8/14			Gray Gravelly Sandy Silt	3	93319			V	I	S	U	A	L		12
673.6	12	16/41			Gray Sandy Silt	4	93320	0	5	15	44	36	25	7	13		
671.1	14																
671.1	16	34/26*			Gray Gravelly Sandy Silt	5	93321	18	10	18	26	28	19	5	8		
668.6	18	(0.2') 24/40			Gray Sandy Gravelly Silt	6	93322	41	6	11	21	21	22	6	10		
666.1	20	24/30*			No Sample Recovered												
663.6	22	(0.2') 46/1*			Gray Clayey Sand w/Stone Fragments	7	93323	44	19	16	15	6					
661.6	24																
660.6	26				TOP OF ROCK												
	28		4.7	0.8													
	30				Dolomite, gray, hard, dense, broken to badly broken. No Core Loss.												
	32		4.8	0.2													
	34																
651.1	36				BOTTOM OF BORING												

Particle Sizes: Agg. >2.00mm, Coarse Sand = 2.00-0.42mm, Fine Sand = 0.42-0.075mm, Silts = 0.075-0.005mm, Clay < 0.005mm
* Refusal

State of Ohio
Department of Highways
Testing Laboratory

LOG OF BORING

Date Started 10-2-62 Sampler Type SS Dia 1 3/8" Water Elev _____
Date Completed 10-2-62 Casing Length _____ Dia _____

Project Identification WOOD
WOO-25-5.20
WOO-25-0217

Boring No. B-9 Station & Offset 51+39, 3' Rt. (FORWARD ABUTMENT) Surface Elev. 687.1

UNDER BAYS ROAD

Elev.	Depth	Sgt. Pen (N)	Rec #	Loss #	Description	Field No.	Lab. Nos. So.	Physical Characteristics							SHTL Class			
								% Agg.	% C.S.	% F.S.	% Silt	% Clay	LL	PL		W.C.		
687.1	0																	
684.6	2																	
	4	4/6			Brown & Gray Silty Gravelly Sand	1	93304	17	1	47	14	21	NP	NP	17			
682.1	6	4/7			Brown & Gray Sandy Clay	2	93305	0	2	18	26	54	30	11	16			
679.6	8	12/21			Brown & Gray Gravelly Sandy Silt	3	93306	16	5	14	24	41	30	10	14			
677.1	10	11/20			Gray Sandy Gravelly Clay	4	93307	18	5	11	22	44	28	11	12			
674.6	12	13/22			Gray Clayey Silt	5	93308	0	6	13	31	50	27	9	14			
672.1	14	20/34			Gray Silt	6	93309	0	5	10	41	44	21	4	7			
669.6	18	28/31			Gray Gravelly Sandy Silt	7	93310	20	7	15	32	26	20	3	11			
667.1	20	13/15			Gray Gravelly Sandy Silt	8	93311	17	7	12	28	36	23	7	17			
	22																	
	24																	
662.1	26				TOP OF ROCK													
	28		4.5	0.5														
	30				Dolomite, gray, hard, dense, broken, vertically jointed from 25.0' to 26.0' and from 34.2' to 35.0'. Core Loss 5%.													
	32																	
	34		5.0	0.0														
652.1	36				BOTTOM OF BORING													

Particle Sizes: Agg = >2.00mm, Coarse Sand = 2.00-0.42mm, Fine Sand = 0.42-0.074mm, Silt = 0.074-0.005mm, Clay = <0.005mm

State of Ohio
Department of Highways
Testing Laboratory

DRIVE ROD
PENETRATION RESISTANCE DATA

Test Location No. 1
Station & Offset 48+61, 15' Rt.
REAR ABUTMENT
Surface Elev. 682.1 Water Elev. DRY

Project Identification WOOD
WOO-25-5.20
WOO-25-0717
UNDER BAYS ROAD

Elev.	Depth	Soil Log
682.1	0	
	2	
678.1	4	
	6	
674.1	8	
	10	
670.1	12	
	14	
666.1	16	
	18	
	20	
	22	
	24	
	26	
	28	
	30	
	32	
	34	
	36	

Date Completed 10-10-62

Piling _____
Hammer + _____
Formula _____
Reference _____
Rod Condition GOOD

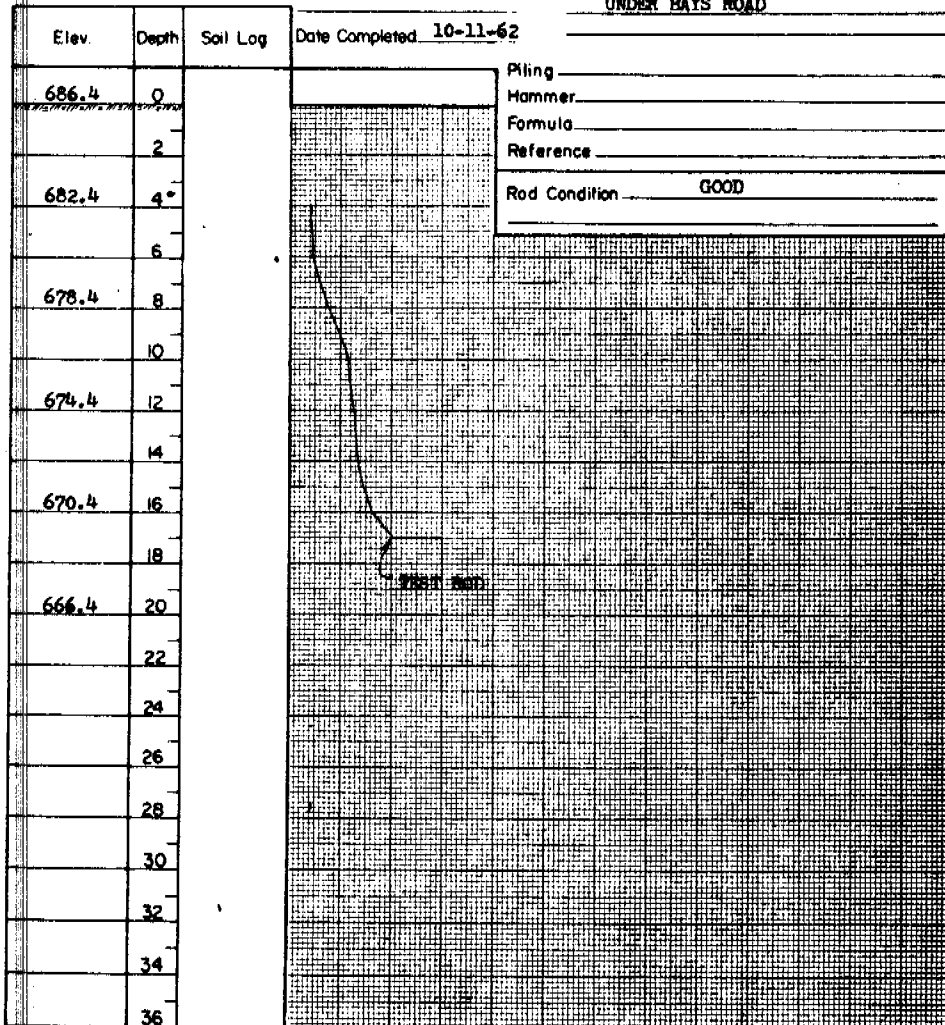
State of Ohio
Department of Highways
Testing Laboratory

DRIVE ROD
PENETRATION RESISTANCE DATA

Test Location No. 2
Station & Offset 48+61.15' R.L.
REAR ABUTMENT
Surface Elev. 686.4 Water Elev. DRY

Project Identification WOOD
WOO-25-5.20
WOO-25-0717
UNDER BAYS ROAD

Date Completed 10-11-62



By RC Date 12-10-62

Capacity "R" in Thousands of Pounds SHEET 9 of 17 Sheets

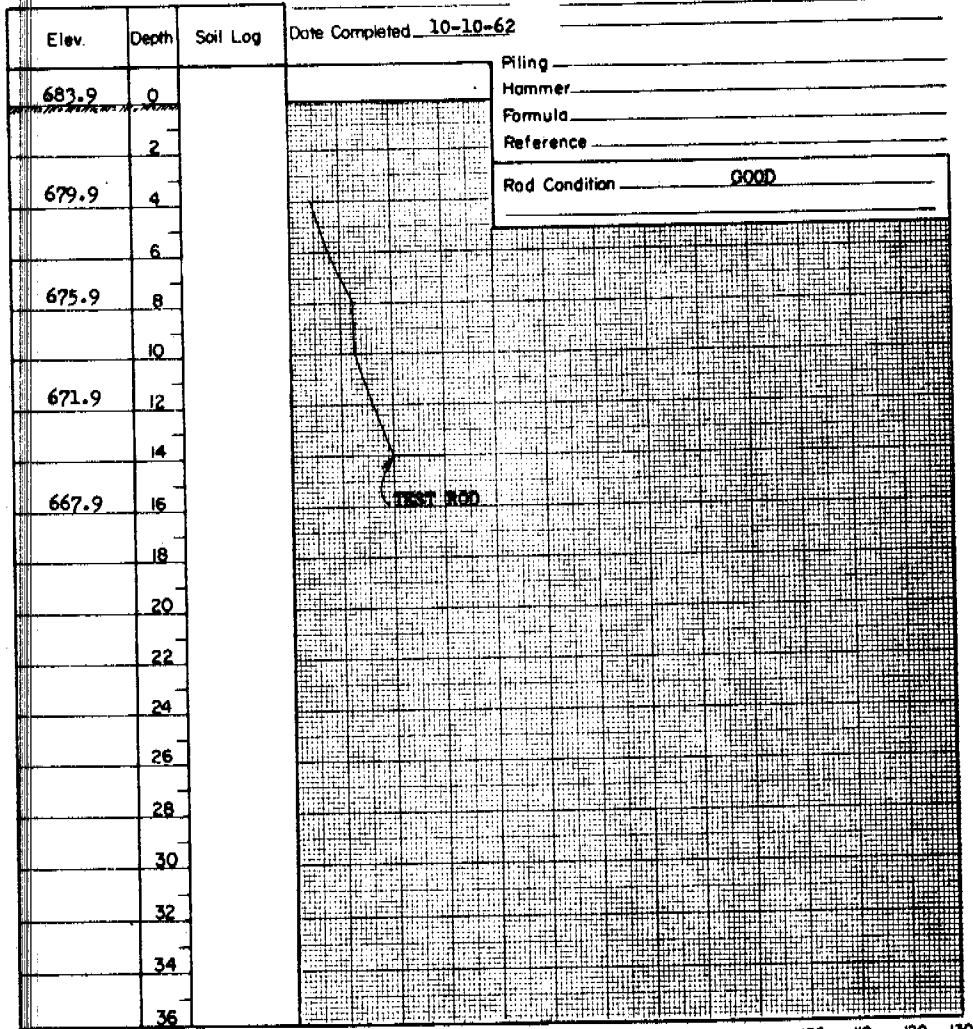
State of Ohio
Department of Highways
Testing Laboratory

DRIVE ROD
PENETRATION RESISTANCE DATA

Test Location No. 3
Station & Offset 49+18.15' Rt.
REAR PIER
Surface Elev. 683.9 Water Elev. DRY

Project Identification WOOD
W00-25-5.20
W00-25-0717
UNDER BAYS ROAD

Date Completed 10-10-62



Piling _____
Hammer _____
Formula _____
Reference _____
Rod Condition GOOD

By EC Date 12-10-62

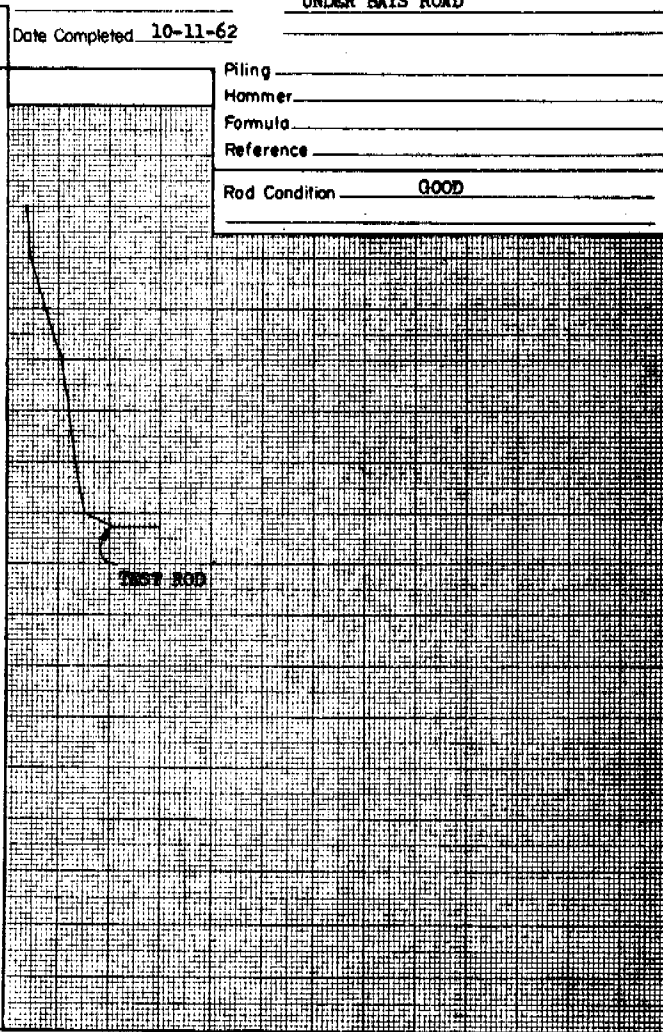
Capacity "R" in Thousands of Pounds SHEET 10 of 17 Sheets

State of Ohio
Department of Highways
Testing Laboratory

DRIVE ROD
PENETRATION RESISTANCE DATA

Test Location No. 4
Station & Offset 49+18.15' Lt.
RR&R PIER
Surface Elev. 686.5 Water Elev. DRY

Project Identification WOOD
WOO-25-5.20
WOO-25-0717
UNDER BAYS ROAD

Elev.	Depth	Soil Log	Date Completed
686.5	0		10-11-62
	2		
682.5	4		
	6		
678.5	8		
	10		
674.5	12		
	14		
670.5	16		
	18		
666.5	20		
	22		
	24		
	26		
	28		
	30		
	32		
	34		
	36		

Piling _____
Hammer _____
Formula _____
Reference _____
Rod Condition GOOD

State of Ohio
Department of Highways
Testing Laboratory

DRIVE ROD
PENETRATION RESISTANCE DATA

Test Location No. 5
Station & Offset 50+00, 15' Rt.
CENTER PIER
Surface Elev. 684.1 Water Elev. DRY

Project Identification WOOD
WOO-25-5.20
WOO-25-0717
UNDER BAYS ROAD

Date Completed 10-10-62

Elev.	Depth	Soil Log	Date Completed
684.1	0		
	2		
680.1	4		
	6		
676.1	8		
	10		
672.1	12		
	14		
668.1	16		
	18		
	20		
	22		
	24		
	26		
	28		
	30		
	32		
	34		
	36		

Piling _____
Hammer _____
Formula _____
Reference _____
Rod Condition GOOD

10 20 30 40 50 60 70 80 90 100 110 120 130

By RC Date 12-10-62

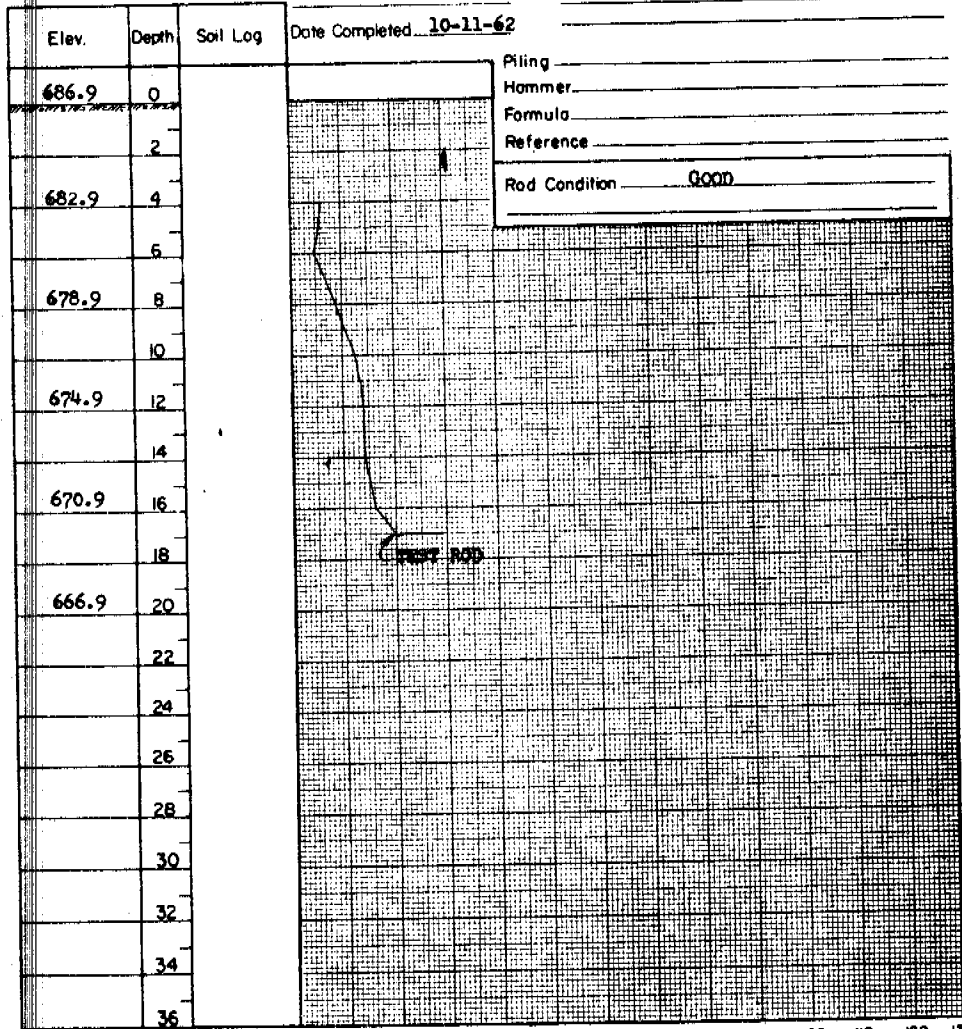
State of Ohio
Department of Highways
Testing Laboratory

DRIVE ROD
PENETRATION RESISTANCE DATA

Test Location No. 6
Station & Offset 50+00, 15' Lt.
CENTER PIER
Surface Elev. 686.9 Water Elev. DRY

Project Identification WOOD
WOO-25-5.20
WOO-25-0717
UNDER BAYS ROAD

Date Completed 10-11-62



Piling _____
Hammer _____
Formula _____
Reference _____

Rod Condition Good

By PC Date 12-10-62

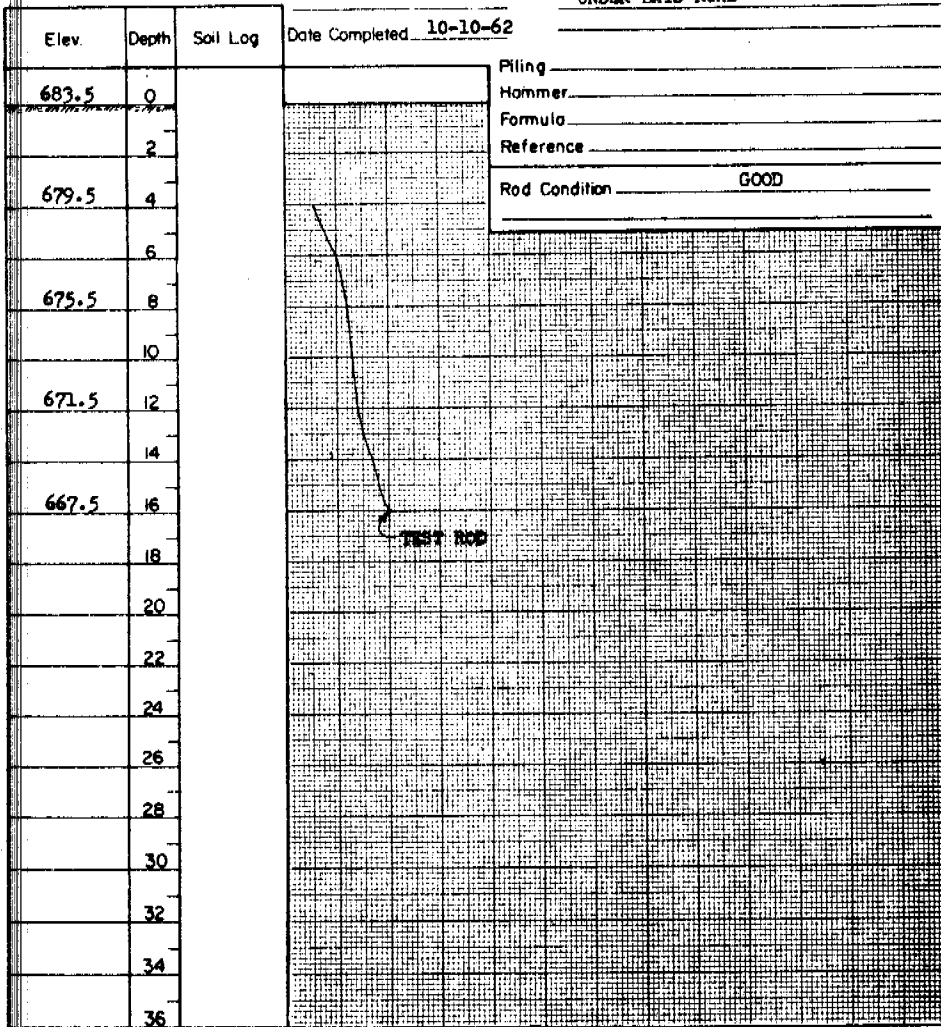
Capacity "R" in Thousands of Pounds SHEET 13 of 17 Sheets

State of Ohio
Department of Highways
Testing Laboratory

DRIVE ROD
PENETRATION RESISTANCE DATA

Test Location No. 7
Station & Offset 50+82, 19' Rt.
FORWARD PIER
Surface Elev. 683.5 Water Elev. DRY

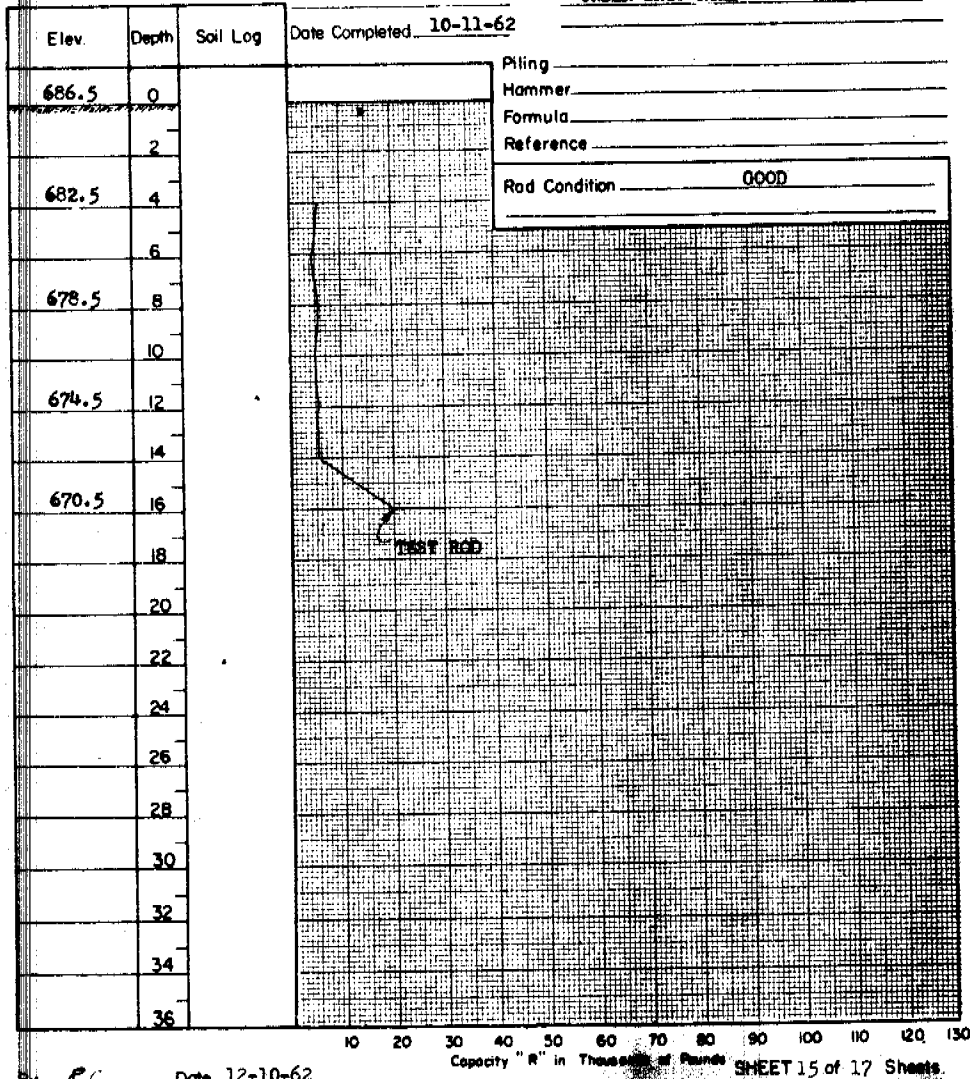
Project Identification WOOD
WOO-25-5.20
WOO-25-0717
UNDER BAYS ROAD



State of Ohio
Department of Highways
Testing Laboratory

DRIVE ROD
PENETRATION RESISTANCE DATA

Test Location No. 8
 Station & Offset 50+82.15' Lt. Project Identification WOOD
FORWARD PIER WOO-25-5.20
 Surface Elev. 686.5 Water Elev. _____ WOO-25-8717
UNDER BAYS ROAD



State of Ohio
Department of Highways
Testing Laboratory

DRIVE ROD
PENETRATION RESISTANCE DATA

Test Location No. 9
Station & Offset 51+39, 15' Rt.
FORWARD ABUTMENT
Surface Elev. 684.4 Water Elev. DRY

Project Identification WOOD
WOO-25-5.20
WOO-25-0717
UNDER BATS ROAD

Date Completed 10-11-62

Elev.	Depth	Soil Log
684.4	0	
	2	
680.4	4	
	6	
676.4	8	
	10	
672.4	12	
	14	
668.4	16	
	18	
	20	
	22	
	24	
	26	
	28	
	30	
	32	
	34	
	36	

Piling _____
Hammer _____
Formula _____
Reference _____

Rod Condition GOOD

10 20 30 40 50 60 70 80 90 100 110 120 130
Capacity "R" in Thousand Pounds

By PC Date 12-10-62

SHEET 16 of 17 Sheets

State of Ohio
Department of Highways
Testing Laboratory

DRIVE ROD
PENETRATION RESISTANCE DATA

Test Location No. 10
Station & Offset 51+39.15' Lt.
FORWARD ABUTMENT
Surface Elev. 686.7 Water Elev. DRY

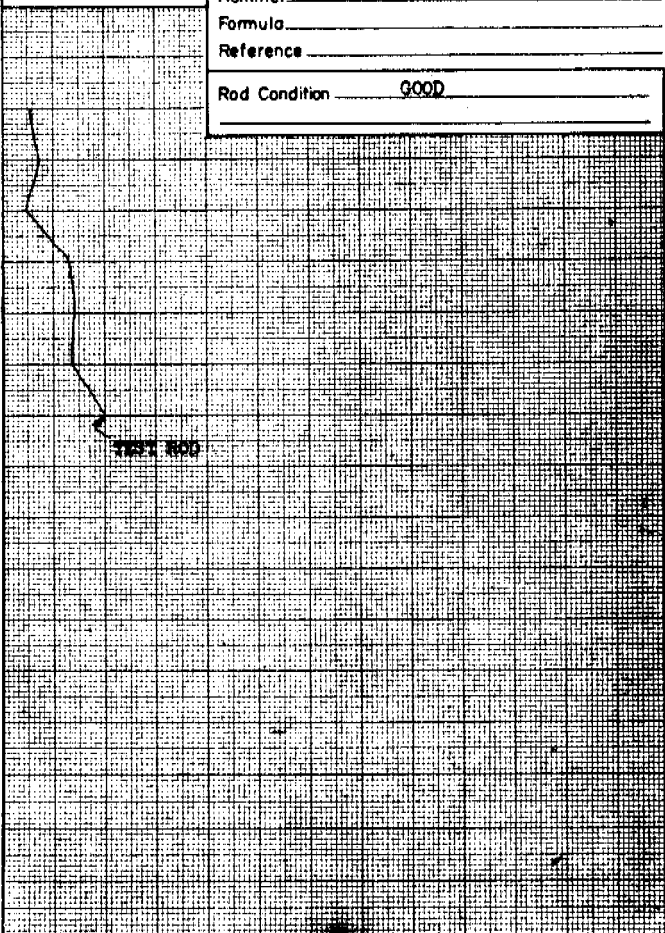
Project Identification WOOD
WOO-25-5.20
WOO-25-0717
UNDER BAYS ROAD

Elev.	Depth	Soil Log
686.7	0	
	2	
682.7	4	
	6	
678.7	8	
	10	
674.7	12	
	14	
670.7	16	
	18	
	20	
	22	
	24	
	26	
	28	
	30	
	32	
	34	
	36	

Date Completed 10-11-62

Piling _____
Hammer _____
Formula _____
Reference _____

Rod Condition GOOD



FIELD DATA - ROD PENETRATION

Location No. 1 County: W00-25
 REAR ~~Pi~~ ABUT. Bridge No. 0717
 Station: 487 61 ~~Over:~~ UNDER Bay 2 Road
 Offset: 15 RT
 Started: 10-10-62

Completed: 10-12-62 Equipment: 21-0-29

checked in field
 Depth in Feet Penetration 682.1 ✓
 Elevation
 D.P. Diameter
 Ground Line

Depth in Feet	Penetration	Elevation	Proposed Footer
0			no water hole open
5	2 3/4		
	1 1/2		
	5/8		
10	9/16		
	3/8		
	1/4		Slight Hammer Blow
	0		High Hammer Blow
	0	667.6	" " "
20			
25			

Party Bumbee Steberg

25		
30		
35		
40		
45		
50		
55		
60		

Rod Condition: Good

Chief of Party R. Ray

FIELD DATA - ROD PENETRATION

Location No. 3 County: 400-25
REAR Pier - ~~Abut.~~ Bridge No. 0717
 Station: 49718 ~~Under~~ Bayle Road
 Offset: 15 P.T.
 Started: 10-10-62
 Completed: 10-10-62 Equipment: 21-0-29

Depth Feet	Penetration	Elevation	Proposed Footer
		Ground Line	
0		683.9	
5	3 1/8		no water hole open
	1 7/16		
	9/16		
10	9/16		
	1/4		
14.6	0	669.9	high basement base
15			
20			
25			

25		
30		
35		
40		
45		
50		
55		
60		

Rod Condition: Good
 Chief of Party R. Ray

Party Bushbee Stebbins

FIELD DATA - ROD PENETRATION

Location No. 4 County: Woo-25
PEAR Pier-~~Abut.~~ Bridge No. 0717
 Station: 497 18 UNDER: Baye Road
 Offset: 1527
 Started: 10-11-62
 Completed: 10-11-62 Equipment: 21-0-31

Depth Feet Penetration **Elevation**
686.5
 D.P. Diameter
 Ground Line

Depth Feet	Penetration	Elevation	Proposed Footer
0		686.5	
5	4 1/4		no water hole open
	3 3/8		
	1 1/16		
10	13/16		
	5/8		
	7/16		
15	57/16		
16.5	0	670.0 ✓	hammer sound " "
20			
25			

Party Albert

25		
30		
35		
40		
45		
50		
55		
60		

Rod Condition: Good

Chief of Party R. Ray

FIELD DATA - ROD PENETRATION

Location No. 5 County: Wood 25
CENTER Pier - ~~Asst.~~ Bridge No. 0717
 Station: 50400 ~~UNDER~~ **Over:** Bay's Road
 Offset: 1517
 Started: 10-10-62
 Completed: 10-10-62 Equipment: 21-0-29

Depth Feet	Penetration	Elevation	Proposed Footer
		684.1	
0			
5	3 7/16		
	1 3/16		
	5/8		
10	5/8		
	5/16		
14.0	0	670.0	<u>high from base</u>
15			
20			
25			

Party Bunker Stibing

25		
30		
35		
40		
45		
50		
55		
60		

Rod Condition: Good
 Chief of Party R. Ray

FIELD DATA - ROD PENETRATION

Location No. 6 County: W00-25

CENTER Pier - Abut. Bridge No. 0717

Station: 50+00 **UNDER** Baye Pk.

Offset: 15 LT.

Started: 10-11-62

Completed: 10-11-62 Equipment: 21-0-31

4.8 Diameter

Ground Line

Depth
Feet

Elevation
696.9

Penetration

Depth Feet	Penetration	Elevation	Proposed Footer
0		696.9	
5	2 1/8		no water
	3 -		sub spec
	1 3/16		
10	9 1/16		
	3/8		
	3/8		loose stones
15	1 1/4		" "
17.0	0	669.92	" "
20			
25			

Party Ebert

25		
30		
35		
40		
45		
50		
55		
60		

Rod Condition: Good

Chief of Party R. Bay

FIELD DATA - ROD PENETRATION

Location No. 8 County: W00-25

FWD Pier - Abut. Bridge No. 0717

Station: 50+92 UNDER Cover: Baye Road

Offset: 1567

Started: 10-11-62

Completed: 10-11-62 Equipment: 21-0-31

0.19 Diameter

Ground Line

Proposed Footer

Depth Feet	Penetration	Elevation
0		696.5
5	2 1/4	
	3 1/4	
	2 3/4	
10	2 3/4	
	2 1/2	
	2 1/2	
15		
16	0	670.5
20		
25		

Party ehert

25		
30		
35		
40		
45		
50		
55		
60		

Rod Condition: Good

Chief of Party R. Ray

FIELD DATA - ROD PENETRATION

Location No. 9 County: W. Co. 25
FWD Pier - Abut. Bridge No. 0717
 Station: 51739 UNDER Bay Bridge
 Over: Bay Bridge
 Offset: 15 R 7
 Started: 10-10-62
 Completed: 10-11-62 Equipment: 21-0-20

Depth Feet	Penetration	Elevation	Ground Line	Proposed Footer
0		694.4		
5	2 1/16			no water
	11/16			back open
10	7/16			hammer down
	5/16			" "
	5/16			" "
15	1/8	669.4 ✓		
20				
25				

Party Bramble Stebbins

25		
30		
35		
40		
45		
50		
55		
60		

Rod Condition: Good
 Chief of Party R. Ray

FIELD DATA - ROD PENETRATION

Location No. 10 County: W00-25

FWD Pier-Abut. Bridge No. 0717

Station: 5-1+39 ~~Over:~~ Bayou

Offset: 15 L.

Started: 10-11-62

Completed: 10-11-62 Equipment: 21-0-31

D.P. Diameter

Ground Line

Depth
Feet
Penetration

Elevation

686.7

Depth Feet	Penetration	Elevation	Proposed Footer
0		<u>686.7</u>	
2	<u>3/8</u>		<u>no water</u>
5	<u>1 1/8</u>		<u>small cap</u>
3	<u>1</u>		
10	<u>1/2</u>		
	<u>3/8</u>		
15	<u>7/16</u>		<u>hammer</u>
16	<u>0</u>	<u>670.7</u>	<u>hammer</u>
20			
25			

Party Chart

25		
30		
35		
40		
45		
50		
55		
60		

Rod Condition: Good

Chief of Party P. Ray

FIELD DATA - SOIL LOG

Location No. B-4 County: Wood
Rear Pier-~~2222~~ Bridge No. 25-0717
 Station: 99+18 Under Bays Rd.
 Offset: 20LT.
 Started: 10-2-62 Equipment: DAMCO
 Completed: 10-2-62 Diameter _____

Proposed Footer: _____

Water Level: _____

Depth
Feet
0
5
10
15
20
25

Log
Samples
Elevation
886.1

Ground Line

Depth (Feet)	Log	Sample	Description
0			Ground Line
1		67.1	3/5 Brn clay silt
2		79.5	13/25 Brn firm clay silt with gravel
3		676.1	8/14 Gray clay silt with gravel
4		12.5	16/41 Brn gray clay silt with gravel
5		671.1	34-0.5'; 36-0.5' Firm clay silt & silt sand with gravel
6		17.5	24/40 Firm slightly clayey silt with gravel
7		666.1	24-0.5'; 30-0.2' Two attempts No sample
8			46-0.5' Gray silty sand & gravel
9		661.1	Large gravel at 39.5

Depth (Feet)	Log	Sample	Description
26		660.1	25.5 ✓
30		656.1	Run 5.5' Rec. 4.7' ✓
35		652.1	Run 5.0' Rec. 4.6' ✓
40			Bottom 35'
45			
50			
55			
60			

Remarks: _____
 Party J. Jones Costa Gardino
 Chief of Party VanFossen

SUMMARY OF SOIL TEST DATA ON FOUNDATION SAMPLES

County, Rt. No., Section
 Bridge No.

UGA-25-0717

(3V)

1
1

Lab. No. So.-	Field No.	Station No.	Represents Feet	Mechanical Analysis					Physical Characteristics			Ohio Class.	Remarks
				Agg %	C Sand %	F Sand %	Silt %	Clay %	L.L.	P.I.	Water Cont.		
93317	1	48-18	20-24	5-6'	C	5	14	28	53	29	9	27	PL CM
	8	"	"	25-28		5	10	22	43	31	11	14	GC SGC
	9	"	"	10-11	V	1	5M (V)	A	L			12	GP GSM
93320	4	"	123-135		C	5	15	44	36	25	7	13	Gr SM
	5	"	"	15-157		18	10	18	26	19	5	8	Gr GSM
	2	"	"	175-185		41	6	11	21	22	6	10	Gr SGM
	3	"	"	225-23		14	19	16	15				Gr CS SF

50-7

VISUAL CLASSIFICATION OF DRIVE SAMPLES

PROJECT:

W00. 25-0717

BORING LOCATION:

49+18 20'LT

DRILLER:

VAN FOSSEN

CLASSIFIED BY:

DAP

DATE: 10-8-62

Field No.	Visual Description	No. Of Blows	Density	Moist. Cont.
1	Br + gr MC T.O. GRAVEL	3/5	M	M7
2	Br MC T.O. ST.	13/25	S	M
3	gr CM T.O. ST FRAGS	8/14		M
4	gr SCM T.O. ST.	16/41	D	M
5	gr SCM W/ST. FRAGS	^{34-0.5'} 26-0.2'		M
6	gr SCM W/SOME ST. FRAGS	4/40		M
7	gr ST ST. FRAGS	46-0.5'		M

LITTLE
IN JAR

X

FIELD DATA - SOIL LOG

Location No. B-9 County: Wood
F.W.D. - Abut. Bridge No. Wood 25-0717
 Station: S1+39 Under Bys Pt.
 Offset: 3 RT.
 Started: 10-2-62 Equipment: Coredrill
 Completed: 10-2-62 Diameter: _____

Proposed Footer: _____
 Water Level: _____

Depth Feet	Log	Soil Samples	Elevation	Ground Line
0			677.1	Ground Line
1		2.5		4/6 Blue clayey silt & sand 20% sand.
5			682.1	
2				9/7 Blue gray clay silt
3		7.5		12/21 Blue clay silt with small gravel.
10			677.1	
4				11/20 Gray clay silt with gravel
5		12.5		13/22 Gray clay silt with gravel
15			672.1	
6				20/34 Gray clay silt with gravel & gray silt.
7		7.5		28/31 Very firm gray clay silt with gravel.
20			667.1	
8				13/15 Clay silt with gravel.
25			662.1	Tried for sample at 25' on bed rock.

26	661.1	
		Limestone.
30	657.1	Run 50 Rec. 4.5 ✓
		Limestone.
35	652.1	Run 50 Rec. 50 ✓
		Bottom of Boring 35'
40		
45		
50		
55		
60		

Remarks: _____
 Party J. Jones Costa Gordin
 Chief of Party Van Fossey

SUMMARY OF SOIL TEST DATA ON FOUNDATION SAMPLES

County, Rt. No., Section

Bridge No.

Wb. 25-0717

(21)

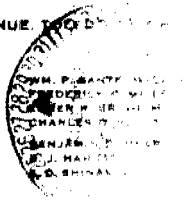
Lab. No. So.-	Field No.	Station No.	Represents Feet	Mechanical Analysis					Physical Characteristics			Ohio Class.	Remarks
				Agg %	Sand %	Fine Sand %	Silt %	Clay %	L.L.	P.I.	Water Cont.		
43304	1	51-39	3-4 25-35	17	1	47	14	21	27	17	SGC	MCS	
5	2	"	5-6	0	2	18	36	34	30	16	SGC	SC	
6	3	"	7-8.5	16	5	14	24	41	30	14	SGC	GSM	
7	4	"	10-11	18	5	11	22	44	28	12	SGC	SGC	
8	5	"	12.5-13.5	0	6	13	31	50	27	14	C	CM	
9	6	"	15-16	0	5	10	41	44	21	7	C	M	
43310	7	"	17.5-18.5	20	7	15	32	26	20	11	C	GSM	
1	8	"	20-21	17	7	12	28	36	23	17	C	GSM	

SANZENBACHER, MILLER & BRIGHAM - CONSULTING ENGINEERS
CHARLES D. SCOTT - ARCHITECT

3023 SYLVANIA AVENUE, CINCINNATI, OHIO

MAILING ADDRESS
P. O. BOX 5890,
WERNERT BRANCH
TOLEDO 13, OHIO
PHONE 478-4822

August 22, 1962



Mr. Robert E. M. See Inlets
Rural Consultant Liaison Engineer
Ohio Department of Highways
Room 807, Ohio Department Building
Columbus 15, Ohio

*File 13.4
W O U*

Subject: WOO 25-5.20. Schematic of Basic Site Investigation
for Foundation Investigation.

Dear Sir:

Supplied herewith are six (6) prints each of the following
Basic Site Plans, on which have been indicated recommended test hole
locations. These are for use in foundation investigation by the State.

1. Bridge No. WOO 25-0574, Left and Right over New York Central Railroad.
2. Bridge No. WOO 25-0616 under Jerry City Road.
3. Jerry City Road over Rocky Ford Creek.
4. Bridge No. WOO 25-0717 under Bays Road.
5. Bridge No. WOO 25-0817 under State Route 281.
6. Bridge No. WOO 25-0920 under Mermill Road.

Prints of the WOO 25-5.20 Schematic Plan and the title sheet
are included to indicate project and structure site locations.

Referenced points on centerline are shown on each Basic Site

Mr. Robert E. M. des Isles
August 22, 1962
Page 2

Plan. Should you have need for further assistance in centerline location,
please let us know.

Very truly yours,

SANZENBACHER, MILLER & BRIGHAM

Frederick C. Miller

FCM:mcb
BJH:

Enclosures

cc: Mr. D. H. Overman/Mr. Martin Ward
Mr. George M. Lieber/Mr. E. L. Langenderfer
File