

SHEET _____ of _____
 BY C. NEWHALL
 DATE _____

STATE OF OHIO
 DEPARTMENT OF HIGHWAYS
 BUREAU OF BRIDGES

SUMMIT COUNTY
 ROUTE 5 SEC. 12.31
 BR. NO. EXPRESSWAY PART I
 OVER AKRON SU-5-124
 Little Cuyahoga River
 FOOTING

FILE DATA FOR NORTH ABUTMENT
 Type and Dia. of Pile 14" BP73
 Make and Size No. of Hammer VULCAN C-50 Differential Acting
 Formula: "R" = $\frac{2F}{S+0.1}$
 Pile Load Required 65 Tons & preferably ROCK Tons
 Remarks _____

File No.	Length Driven*	Cut Off	Bearing Power (Tons)	Pay Length	REMARKS
1	120.36		71.0	118.11 118.11	19 BLOWS/INCH @ 105 BLOWS/MIN. DRIVEN 12-13-50
		3.37	LOST IN TRANSFERS		
2	120.38		73.5	116.64	17 BLOWS/INCH @ 108 BLOWS/MIN. DRIVEN 12-12-50
		3.74	USED ON FILE NO. 23 NORTH ABUTMENT		
3	120.26		75.0 75.0	119.11	22 BLOWS/INCH @ 105 BLOWS/MIN. DRIVEN 12-12-50
		1.73			
4	120.23		71.5	119.64	16 BLOWS/INCH @ 102 BLOWS/MIN. DRIVEN 12-13-50
		.89			
5	120.35		73.0	118.19	17 BLOWS/INCH @ 104 BLOWS/MIN. DRIVEN 12-12-50
		3.24			
6	111.43		71.5	99.90	16 BLOWS/INCH @ 102 BLOWS/MIN. DRIVEN 12-15-50
		11.53	USED ON NORTH ABUTMENT PILE NO. 11		
7	127.41		75.0	121.39	22 BLOWS/INCH @ 105 BLOWS/MIN. DRIVEN 12-18-50
		8.02	CUT OFF - LOST IN TRANSFERS		
8	120.27		69.0	110.74	166 BLOWS/INCH @ 106 BLOWS/MIN. DRIVEN 12-15-50
		11.53	CUT OFF - LOST IN TRANSFERS		
9	137.93		69.0	126.84	16 BLOWS/INCH @ 106 BLOWS/MIN. DRIVEN 12-18-50
		11.09	USED ON PILE NO. 28 NORTH ABUTMENT		

*Total of all lengths placed in leads

SHEET _____ of _____
 BY C. NEWHALL
 DATE _____

STATE OF OHIO
 DEPARTMENT OF HIGHWAYS
 BUREAU OF BRIDGES

SUMMIT COUNTY
 ROUTE 5 SEC. 12.31
 BR. NO. EXPRESSWAY PART I
 OVER AKRON

PILE DATA FOR NORTH ABUTMENT FOOTING
 Type and Dia. of Pile 14" H 73
 Make and Size No. of Hammer VULCAN C-50
 Formula: "R" = $\frac{2F}{S+0.1}$
 File Load Required 65 Tons & preferably ROCK Tons
 Remarks _____

File No.	Length Driven*	Cut Off	Bearing Power (Tons)	Pay Length	REMARKS
10	119.18		69.5	116.61	15 BLOWS/INCH @ 108 BLOWS/MIN. DRIVEN 12-15-50
		3.85			
11	165.53		71.0	131.68	18 BLOWS/INCH @ 105 BLOWS/MIN. DRIVEN 12-15-50
		33.85	USED ON FILE No. 12 NORTH ABUTMENT		
12	135.10		75.5	133.56	15 BLOWS/INCH @ 112 BLOWS/MIN. DRIVEN 12-18-50
		2.31			
137.57			65.2	129.07	15 BLOWS/INCH @ 105 BLOWS/MIN. DRIVEN 12-20-50
		8.50	USED ON FILE No. 14		
14	140.58		78.0	133.31	27 BLOWS/INCH @ 104 BLOWS/MIN. DRIVEN 12-21-50
		3.62	USED ON FILE No. 15 NORTH ABUTMENT		
		5.48			
15	133.74		76.5	129.37	25 BLOWS/INCH @ 104 BLOWS/MIN. DRIVEN 12-21-50
		4.37	USED ON FILE No. 41 NORTH ABUTMENT		
16	150.53		73.00	125.98	27 BLOWS/INCH @ 100 BLOWS/MIN. DRIVEN 9-13-50
		24.55	USED ON FILE No. 36 NORTH ABUTMENT		
17	162.45		64.0	147.11	150 BLOWS/FT. @ 108 BLOWS/MIN. DRIVEN 1-16-51
		15.22	USED ON FILE No. 18 NORTH ABUTMENT		
	137.93	0.18	WASTED		
18	151.52		71.5	145.70	20 BLOWS/INCH @ 104 BLOWS/MIN. DRIVEN 1-(17-18)-51
		7.82	WASTED		

*Total of all lengths placed in leads

SHEET _____ of _____
 BY C. NEWHALL
 DATE _____

STATE OF OHIO
 DEPARTMENT OF HIGHWAYS
 BUREAU OF BRIDGES

SUMMIT COUNTY
 ROUTE 5 SEC. 12.31
 BR. NO. EXPRESSWAY PART I
 OVER AKRON

PILE DATA FOR NORTH ABUTMENT FOOTING
 Type and Dia. of Pile 14" H 73
 Make and Size No. of Hammer VULCAN C-50
 Formula: "R" = $\frac{2F}{S+0.1}$
 Pile Load Required 65 Tons & preferably ROCK Tons
 Remarks _____

File No.	Length Driven*	Cut Off	Bearing Power (Tons)	Pay Length	REMARKS
19	130.25		74.2	129.12	18 BLOVS/INCH @ 108 BLOVS/MIN. DRIVEN 1-16-51
		1.70			
20	147.06		85.99x 74.0	XXXXXX 145.99	22 BLOVS/INCH @ 104 BLOVS/MIN. DRIVEN 1-(17-18)-51
		1.60			
21	135.68		74.2	134.75	18 BLOVS/INCH @ 108 BLOVS/MIN. DRIVEN 1-(17-18)-51
		1.40			
22	141.69		71.5	121.48	16 BLOVS/INCH @ 108 BLOVS/MIN. DRIVEN 12-11-50
		18.22	USED ON PILE No. 23 NORTH ABUTMENT		
		2.98	WASTED		
23	124.04		78.0	124.04	14 BLOVS/INCH @ 115 BLOVS/MIN. DRIVEN 12-12-50
		NONE			
24	124.24		71.5	124.24	1 BLOVS/INCH @ 108 BLOVS/MIN. DRIVEN 12-13-50
		NONE			
25	138.33		69.0	136.32	16 BLOVS/INCH @ 106 BLOVS/MIN. DRIVEN 12-13-50
		3.02			
26	144.16		81.0	140.37	18 BLOVS/INCH @ 112 BLOVS/MIN. DRIVEN 12-14-50
		3.79	USED ON PILE No. 28 NORTH ABUTMENT		
27	113.78		66.5	110.16	16 BLOVS/INCH @ 104 BLOVS/MIN. DRIVEN 12-20-50
		3.62	USED ON PILE No. 41 NORTH ABUTMENT		

*Total of all lengths placed in leads

SHEET _____ of _____
 BY C. NEWHALL
 DATE _____

STATE OF OHIO
 DEPARTMENT OF HIGHWAYS
 BUREAU OF BRIDGES

SUMMIT COUNTY
 ROUTE 5 SEC. 12.31
 BR. NO. EXPRESSWAY PART I
 OVER AKRON

PILE DATA FOR NORTH ABUTMENT FOOTING
 Type and Dia. of Pile 14" H 73#
 Make and Size No. of Hammer VULCAN C-50
 Formula: "R" = $\frac{2F}{S+0.1}$
 Pile Load Required 65 Tons & preferably ROCK Tons
 Remarks _____

File No.	Length Driven*	Cut Off	Bearing Power (Tons)	Pay Length	REMARKS
28	136.07		71.5	134.40	16 BLOWS/INCH @ 108 BLOWS/MIN. DRIVEN 12-20-50
		2.50			
29	131.84		68.9	118.77	20 BLOWS/INCH @ 100 BLOWS/MIN. DRIVEN
		1.64			
		11.98	CUT OFF USED ON FILE NO. 20 NORTH ABUTMENT		
30	133.65		66.0	132.34	14 BLOWS/INCH @ 106 BLOWS/MIN. DRIVEN 9-15-50
		1.97			
31	147.05		64.5	127.77	20 BLOWS/INCH @ 98 BLOWS/MIN. DRIVEN 9-12-50
		21.28	CUT OFF		
32	135.05		77.5	132.26	13 BLOWS/INCH @ 116 BLOWS/MIN. DRIVEN 12-19-50
		2.13	USED ON PILE NO. 38 NORTH ABUTMENT		
		0.99	CUT OFF WASTED		
33	130.77		73.0	126.51	17 BLOWS/INCH @ 108 BLOWS/MIN. DRIVEN 12-19-50
		2.82	CUT OFF WASTED		
		2.38	USED ON PILE NO. 39 NORTH ABUTMENT		
34	136.89		69.5	131.71	15 BLOWS/INCH @ 108 BLOWS/MIN. DRIVEN 12-21-50
		1.75			
		4.01	USED ON PILE NO. 24 NORTH ABUTMENT		
35	154.84		71.5	138.30	15.1 BLOWS/INCH @ 108 BLOWS/MIN. DRIVEN 12-21-50
		16.54	USED ON PILE NO. 40 NORTH ABUTMENT		

*Total of all lengths placed in leads

SHEET _____ of _____
 BY C. NEWMAN
 DATE _____

STATE OF OHIO
 DEPARTMENT OF HIGHWAYS
 BUREAU OF BRIDGES

SUMMIT COUNTY
 ROUTE 5 SEC. 12.31
 BR. NO. EXPRESSWAY PART I
 OVER AKRON

FILE DATA FOR NORTH ABUTMENT FOOTING
 Type and Dia. of Pile 14" H. 73'
 Make and Size No. of Hammer VULCAN C-50
 Formula: "R" = $\frac{2F}{S+0.1}$
 File Load Required 65 Tons & preferably ROCK Tons
 Remarks _____

File No.	Length Driven*	Cut Off	Bearing Power (Tons)	Pay Length	REMARKS
36	137.68		63.0	137.68	21 BLOWS/INCH @ 96 BLOWS/MIN. DRIVEN 9-13-50
		NONE			
37	198.36		76.0	134.22	20 BLOWS/INCH @ 108 BLOWS/MIN. DRIVEN 1-15-51
		6.14			
38	134.15		69.0	134.15	13 BLOWS/INCH @ 110 BLOWS/MIN. DRIVEN 12-14-50
		NONE			
39	136.09		69.0	136.09	16 BLOWS/INCH @ 106 BLOWS/MIN. DRIVEN 12-14-50
		NONE			
40	147.34		76.0	140.49	25 BLOWS/INCH @ 108 BLOWS/MIN. DRIVEN 12-22-50
		7.48 CUT OFF			
		1.37 CUT OFF			
41	139.12		76.0	131.86	20 BLOWS/INCH @ 108 BLOWS/MIN. DRIVEN 1-15-51
		6.28 USED ON PILE NO. 18 NORTH ABUTMENT			
		1.47			

*Total of all lengths placed in leads

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

DRIVING LOG OF PILE NO. 1 IN North PIER ~~ABUT.~~ Summit COUNTY

Station 40+38.50 Offset 36.50 Ft. XX - L. S.R. NO. 5 SEC. 12.31
 Date Driven 12-13-50 Hammer Vulcan C-50 Differential Acting
 Type of Pile 14 BP 73 BR. NO. SU-5-124
 Ground El. 1013.50 File Cap. El. 1014.50

OVER Expressway

Formula: $R = \frac{2F}{S+0.1}$

Little Cuyahoga River

Depth	Blows	S	H	F	R	Remarks
1						60.14+60.22+3.37 <i>orig. length</i>
2						
3						
4						
5	5	2.40				
6						
7						
8						
9						
10	9	1.333				
11						
12						
13						
14						
15	10	1.20				
16						
17						
18						
19						
20	10	1.20				84 blows per min.
21						
22						
23						
24						
25	16	.750				
26						
27						
28						
29						
30	17	.706				92 blows per min.
31						
32						
33						
34						
35	20	.600				92 blows per min.
36						
37						
38						
39						
40	22	.545		9,400	29,200	96 blows per min.
41						

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

DRIVING LOG OF PILE NO. 1 IN North PIER ~~ABUT.~~ Summit COUNTY

Station 40+38.50 Offset 36.50 Ft. XX - L. S.R. NO. 5 SEC. 12.31
 Date Driven 12-13-50 Hammer Vulcan C-50
 Type of Pile 14 BP 73 BR. NO. SU-5-124
 Ground El. 1013.50 Pile Cap. El. 1014.50

OVER Expressway

Formula: $R = \frac{2 F}{S+0.1}$

Depth	Blows	S	H	F	R	Remarks
42						
43						
44						
45	25	.480				
46						
47						
48						
49						
50	31	.387				
51						
52						
53						
54						
55	40	.300				
56						
57						
58						
59						
60	42	.286				
61						
62						
63						
64						
65	41	.293		9,400	48,000	96 blows per min.
66						
67						
68						
69						
70	41	.293		9,400	48,000	96 blows per min.
71						
72						
73						
74						
75	40	.300		9,400	47,000	96 blows per min.
76						
77						
78						
79						
80	42	.286		9,400		
81						
82						

STATE OF OHIO
 DEPARTMENT OF HIGHWAYS
 BUREAU OF BRIDGES

DRIVING LOG OF PILE NO. 1 IN North PIER ABUT. Summit COUNTY

Station 40+38.50 Offset 36.50 Ft. IX - L. S.R. NO. 5 SEC. 12.31
 Date Driven 12-13-50 Hammer Vulcan C-50
 Type of Pile 14 BF 73 BR. NO. SU-5-124
 Ground El. 1013.50 Pile Cap. El. 1014.50

OVER Expressway

Formula: $R = \frac{2F}{S \cdot 0.1}$

Depth	Blows	S	H	F	R	Remarks
83						
84						
85	41	.293		9,400	48,000	
86						
87						
88						
89						
90	43	.279		10,000	53,000	100 blows per min.
91						
92						
93						
94						
95	51	.235		10,000	60,000	
96	58	.207		10,000	65,000	
97	52	.231		10,000	60,500	
98	55	.218		10,000	62,900	
99	52	.231		10,000	60,500	
100	52	.231		10,000	60,500	
101	55	.218		10,000	62,900	
102	55	.218		10,000	62,900	
103	53	.226		10,000	61,500	
104	62	.193		10,000	68,200	
105	61	.197		10,000	67,300	
106	70	.171		10,000	73,500	
107	68	.176		10,000	72,500	
108	77	.156		10,000	78,000	
109	72	.167		10,900	81,600	105 blows per min.
110	85	.141		10,900	90,000	
111	104	.115		10,900	101,400	
112	117	.103		10,900	107,000	
113	110	.109		10,900	104,000	
114	125	.096		10,900	111,000	
115	120	.100		10,900	109,000	
116	(92)					19 last inch

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

DRIVING LOG OF PILE NO. 3 IN North ~~PIER~~ ABUT. Summit COUNTY

Station 40+39.45 Offset 43.71 Ft. ~~W~~ - L. S.R. NO. 5 SEC. 12.31
 Date Driven 12-2-50 Hammer Vulcan C-50 Differential Acting
 Type of Pile 14 BP 73 BR. NO. SU-5-124
 Ground El. 1013.5 File Cap. El. 1014.5

~~OVER~~ Expressway

Formula: $R = \frac{2F}{S^{.01}}$

Little Cuyahoga River

Depth	Blows	S	H	F	R	Remarks
1						
2						
3						
4						
5	5	2.4				
6						
7						
8						
9						
10	8	1.5				
11						
12						
13						
14						
15	11	1.091				
16						
17						
18						
19						
20	11	1.091				
21						
22						
23						
24						
25	20	.600				92 blows per min.
26						
27						
28						
29						
30	26	.462				
31						
32						
33						
34						96 blows per min.
35	28	.429		9,400	35,500	
36						
37						
38						
39						
40	31	.387		10,000	41,100	100 blows per min.
41						

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

DRIVING LOG OF PILE NO. 3 IN North ~~PIER~~ ABUT. Summit COUNTY

Station 40+39.45 Offset 43.71 Ft. ~~XX~~ - L. S.R. NO. 5 SEC. 12.31
 Date Driven 12-2-50 Hammer Vulcan C-50
 Type of Pile 14 BP 73 BR. NO. SU-5-124
 Ground El. 1013.5 File Cap. El. 1014.5

OVER Expressway

Formula: $R = \frac{2F}{S+0.1}$

Depth	Blows	S	H	F	R	Remarks
42						
43						
44						
45	31	.387		10,000	41,100	
46						
47						
48						
49						
50	33	.364		10,000	43,200	
51						
52						
53						
54						
55	35	.343		9,700	43,800	98 blows per min.
56						
57						
58						
59						
60	37	.324		10,000	47,100	100 blows per min.
61						
62						
63						
64						
65	30	.400				92 blows per min.
66						
67						
68						
69						
70	34	.353		10,700	47,200	104 blows per min.
71						
72						
73						
74						
75	43	.279		11,100	58,500	106 blows per min.
76						
77						
78						
79						
80	45	.267		12,000	65,400	110 blows per min.
81						
82						

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

DRIVING LOG OF PILE NO. 3 IN North ~~PIER~~ ABUT. Summit COUNTY

Station 40+39.45 Offset 43.71 Ft. ~~R~~ - L. S.R. NO. 5 SEC. 12.31
Date Driven 12-2-50 Hammer Vulcan C-50
Type of Pile 14 BP 73 BR. NO. SU-5-124
Ground El. 1013.5 File Cap. El. 1014.5

OVER Expressway

Formula: $R = \frac{2 F}{S + 0.1}$

Depth	Blows	S	H	F	R	Remarks
83						
84						
85	40	.300		11,100	55,500	106 blows per min.
86						
87	—					
88						
89						
90	42	.286		11,100	57,500	
91	47	.255		11,100	62,500	
92	49	.245		11,100	64,400	
93	47	.255		10,700	60,200	104 blows per min.
94	48	.250		10,700	61,000	104 blows per min.
95	47	.255		10,700	60,200	
96	53	.226		10,700	65,500	
97	53	.226		10,700	65,500	
98	53	.226		10,700	65,500	
99	61	.197		10,700	72,000	
100	60	.200		10,700	71,200	
101	89	.135		10,700	91,000	
102	92	.130		10,700	93,000	
103	65	.185		10,700	75,100	
104	70	.171		10,700	79,000	
105	71	.169		10,700	79,500	
106						
107	80	.150		10,700	85,600	
108	93	.129		10,700	93,500	
109	93	.129		10,700	93,500	
110	111	.108		10,700	103,000	
111	120	.100		10,700	107,000	
112	146	.082		10,700	117,500	
113	154	.078		10,700	120,100	
114						
115						
116	182	.066		10,700	129,000	
117						22 Bls last inch

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

DRIVING LOG OF PILE NO. 17 IN North PIER ABUT. Summit COUNTY

Station 40+38.50 Offset 36.50 Ft. R. - IX S.R. NO. 5 SEC. 12.31
 Date Driven 1-16-51 Hammer Vulcan G-50 Differential Acting
 Type of Pile 14 BP 73 BR. NO. SU-5-124
 Ground El. E 1013.50 Pile Cap. El. 1014.5

OVER Expressway

Formula: $R = \frac{2F}{S \cdot 0.1}$

Little Cuyahoga River

Depth	Blows	S	H	F	R	Remarks
1						Original Length
2						53.80+16.36+12.67+19.62
3						
4						
5	3	4.00				
6						
7						
8						
9						
10	6	2.00				
11						
12						
13						
14						
15	12	1.00				
16						
17						
18						
19						
20	14	.357				
21						
22						
23						
24						
25	28	.429				
26						
27						
28						96
29						
30	33	.364		9420	40,600	96 Blows per minute
31						
32						
33						
34						
35	41	.293		9420	48,000	96 "
36						
37						
38						
39						
40	55	.218		9420	59,200	96 "
41						

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

DRIVING LOG OF PILE NO. 17 IN North PIER ABUT. Summit COUNTY

Station 40+38.50 Offset 36.50 Ft. R. - II S.R. NO. 5 SEC. 12.31
 Date Driven 1-16-51 Hammer Vulcan C-50
 Type of Pile 14 BP 73 BR. NO. SU-5-124
 Ground El. E 1013.50 File Cap. El. 1014.5

OVER Expressway

Formula: $R = \frac{2F}{S \times 0.1}$

Depth	Blows	S	H	F	R	Remarks
42						
43						
44						
45	65	.185				
46						
47						
48						
49						
50	58	.207		9420	61,400	96 Blows per minute
51						
52						
53						
54						
55	40	.300		10,000	50,000	100 "
56						
57						
58						
59						
60	54	.222		10,000	62,000	100 "
61						
62						
63						
64						
65	52	.231		10,700	64,700	104 "
66						
67						
68						
69						
70	54	.222		10,700	66,500	104 "
71						
72						
73						
74						
75	50	.240		10,700	63,000	104 "
76						
77						
78						
79						
80	47	.255		10,300	58,000	102 "
81						
82						

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

DRIVING LOG OF PILE NO. 17 IN North PIER ABUT. Summit COUNTY

Station 40+38.50 Offset 36.50 Ft. R. - ix S.R. NO. 5 SEC. 12.31
 Date Driven 1-16-51 Hammer Vulcan C-50
 Type of Pile 14 BP 73 BR. NO. SU-5-124
 Ground El. E 1013.50 Pile Cap. El. 1014.5

OVER Expressway

Formula: $R = \frac{2F}{S+0.1}$

Depth	Blows	S	H	F	R	Remarks
83						
84						
85	46	.261		10,700	59,200	104 Blows per minute
86						
87						
88						
89						
90	49	.245		10,700	62,000	104 "
91						
92						
93						
94						
95	51	.235		10,700	64,000	104 "
96						
97						
98						
99						
100	73	.164		10,700	80,500	104 "
101						
102	74	.162				
103	74	.162				
104	63	.190		11,100	76,500	106 "
105	64	.188				
106	60	.200				
107	60	.200		11,100	74,000	106 "
108	56	.214				
109	60	.200				
110	62	.193		11,100	75,800	106 "
111	61	.197				
112	61	.197				
113	65	.185				
114	68	.176				
115	68	.176				
116	68	.176		11,500	83,300	108 "
117	65	.185				
118	66	.182				
119	70	.171				
120	68	.176		11,500	83,300	108 "
121	60	.200				
122	70	.171				
123	70	.171				

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

DRIVING LOG OF PILE NO. 17 IN North PIER ABUT. Summit COUNTY

Station 40+38.50 Offset 36.50 Ft. R. - XX S.R. NO. 5 SEC. 12.31
 Date Driven 1-16-51 Hammer Vulcan C-50
 Type of Pile 14 BP 73 BR. NO. SU-5-124
 Ground El. E 1013.50 Pile Cap. El. 1014.5

OVER Expressway

Formula: $R = \frac{2F}{S+0.1}$

Depth	Blows	S	H	F	R	Remarks
124	70	.171				
125	72	.167		11,500	86,000	108 Blows per minute
126	70	.171				
127	70	.171				
128	71	.169		11,500	85,500	108 "
129	73	.164				
130	72	.167				
131	73	.164				
132	80	.150		11,500	91,000	108 "
133	80	.150				
134	78	.154				
135	80	.150		11,500	91,000	108 "
136	80	.150				
137	80	.150		11,500	91,000	108 "
138	78	.154				
139	70	.171				
140	72	.167		11,500	86,000	108 "
141	78	.154				
142	78	.154				
143	78	.154				
144	97	.124				
145	120	.100				
146	130	.092		11,500	120,000	108 "
147	150	.080				
148	22	per in.				

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

DRIVING LOG OF PILE NO. 19 IN North ~~PIER~~ ABUT. Summit COUNTY

Station 40+39.45 Offset 43.71 Ft. R. - XX S.R. NO. 5 SEC. 12.31
 Date Driven 1-16-51 Hammer Vulcan C-50 Differential Acting
 Type of Pile 14 BP 73 BR. NO. SU-5-124
 Ground El. 1013.5 Pile Cap. El. 1014.5

OVER Expressway

Formula: $R = \frac{2XP}{S+0.1}$

Little Cuyahoga River

Depth	Blows	S	H	F	R	Remarks
1						Original length
2						54.10+46.70+19.50+9.95
3						
4						
5	3	4.00				
6						
7						
8						
9						
10	8	1.50				
11						
12						
13						
14						
15	13	.923				
16						
17						
18						
19						
20	17	.706				
21						
22						
23						
24						
25	24	.500				
26						
27						
28						
29						
30	24	.500				
31						
32						
33						
34						
35	31	.387				
36						
37						
38						
39						
40	35	.343				
41						

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

DRIVING LOG OF PILE NO. 19 IN North ~~PIER~~ ABUT. Summit COUNTY

Station 40+39.45 Offset 43.72 Ft. R. - M. S.R. NO. 5 SEC. 12.31

Date Driven 1-16-51 Hammer Vulcan C-50

Type of Pile 14 BP 73

BR. NO. SU-5-124

Ground El. 1013.5 File Cap. El. 1014.5

OVER Expressway

Formula: $R = \frac{2(S)}{S+0.1}$

Depth	Blows	S	H	F	R	Remarks
42						
43						
44						
45	38	.316				
46						
47						
48						
49						
50	42	.286		9,420	49,000	96 Blows per minute
51						
52						
53						
54						
55	45	.267		9,420	51,400	96 "
56						
57						
58						
59						
60	48	.250		10,000	57,000	100 "
61						
62						
63						
64						
65						
66	52	.231		10,000	60,500	100 "
67						
68						
69						
70						
71	49	.245		10,700	62,100	104 "
72						
73						
74						
75						
76	51	.235		10,700	64,000	104 "
77						
78						
79						
80	64	.188		10,700	74,200	104 "
81						
82						

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

DRIVING LOG OF PILE NO. 19 IN North ~~PIER~~ ABUT. Summit COUNTY

Station 40+39.45 Offset 43.71 Ft. R. - IK S.R. NO. 5 SEC 12.31
 Date Driven 1-16-51 Hammer Vulcan C-50
 Type of Pile 14 BP 73 BR. NO. SU-5-124
 Ground El. 1013.5 File Cap. El. 1014.5

OVER Expressway

Formula: $R = \frac{2.4F}{S+0.1}$

Depth	Blows	S	H	F	R	Remarks
83						
84						
85	54	.222		10,000	62,000	100 Blows per minute
86						
87						
88						
89						
90	49	.245		10,000	58,000	100 "
91						
92						
93						
94						
95	54	.222		10,000	62,000	100 "
96						
97						
98						
99						
100	55	.218		10,000	63,000	100 "
101						
102						
103						
104						
105	57	.203		10,000	66,000	100 "
106						
107	63	.190		10,000	69,000	100 "
108	63	.190				
109	63	.190				
110	61	.197				
111	61	.197		10,700	72,000	104 "
112	61	.197				
113	61	.197				
114	64	.188				
115	64	.188		10,000	69,500	100 "
116	64	.188				
117	108	.111		10,700	101,000	104 "
118	95	.126				
119	90	.133		10,700	92,000	104 "
120	100	.120				
121	100	.120				
122	90	.133		10,700	92,000	104 "
123	82	.146				

See reverse side for EXPLANATORY NOTES AND INSTRUCTIONS

