

BRIDGE No. 9. Sta. 719+37.80  
 PRECAST CONCR. TEST. SIZE 40'  
 ABOUT. No. 505. H476. (41) 2.125.1. ST. No. 3  
 MINIMUM Req. BEARING = 30 TONS

B.M.	13.65	366.75		353.10
TP	3.66	356.99	13.42	353.37
TP	11.99	368.67	0.31	368.68
WT. PILE & HAMMER				
4-5	5-6	12	110	13.6 ✓
5-6	6-7	16	55	11.6 ✓
6-7	7-8	20	0.70	21.4 ✓
7-8	8-9	27	0.51	27.8 "
8-9	9-10	30	0.50	27.8 ✓
9-10	10-11	35	0.49	31.1 ✓
10-11	11-12	40	0.40	37.5 ✓
11-12	12-13	45	0.37	40.5 ✓
12-13	13-14	47	0.36	41.7 ✓
13-14	14-15	48	0.35	42.9 ✓
14-15	15-16	60	0.30	50.0 ✓
15-16	16-17	66	0.28	57.0 ✓
16-17	17-18	96	0.25	75.0 ✓
17-18	18-19	112	0.21	78.4 ✓
18-19	19-20	89	0.27	66.3 ✓
19-20	20-21	74	0.21	55.2 ✓
20-21	21-22	68	0.21	51.4 ✓
21-22	22-23	120	0.18	63.2 ✓
22-23	23-24	97	0.22	63.2 ✓
23-24	24-25	115	0.20	71.0 ✓
24-25	25-26	191	0.16	112.0 ✓
25-26	26-27	218	0.16	148.8 ✓
26-27	27-27.6"	139	0.14	107.1 ✓
27-27.6"	27.6"-27.7"	24	0.14	107.1 ✓

PILE LENGTH - 15' ABOVE 15.2 -  
 DATE - 7-6-62 WEATHER - Pt. CLOUDY & HOT  
 OBSERVED BY - J.W. GERMAN & WALLS STAMPEO - T.H.D.  
 WT. HAMMER - 500 lbs. VULCAN No. 1 DATE MADE - 4-5-62  
 #34 NAIL IN SIDE 20' FROM 300 RA STA. 710+35  
 STAKE No. RA. STA. 710+75  
 STAKE 110' AT STA. 719+00

PEN. BELOW PILE CUT OFF	PEN. BELOW OBSER. POINT	BLOW PER FT.	VALUE OF STOK	TONS BEARING
26-9" - 26-10"	27.7-27.8"	24	0.14	107.1
26-10" - 26-11"	27.8-27.9"	23	0.14	107.1
26-11" - 27'	27.9-27-10"	24	0.14	107.1
27' - 27-1"	27-10"-27-11"	23	0.14	107.1
27-1" - 27-2"	27-11"-28"	23	0.14	107.1

REFUSAL AFTER 27-2" PENETRATION

COMP BY J.W. GERMAN - 7-7-62  
 P.H.D. 10/1/62

H.I.	=	368.67
ADD ALL CORRECTIONS	=	2.12
GROUND ELEVATION	=	366.55
TOP OF PILE HEAD	=	378.48 ✓
CUT OFF PILE	=	368.65 ✓
TOTAL PILE BEARING	=	27-2" ✓
OBSERVED BLOW RATE	=	368.48 ✓

Below cut off

BRIDGE No. 7  
 PRECAST CONCRETE PILE route 814  
 BENT No. 2 STA. 0+00 (±) LENGTH 40.0' PILE No. 8  
 MINIMUM REQ. BEARING = 30 TONS

B.M.	13.65	366.75		353.10
TP	3.66	356.99	13.42	353.33

PEN. BELOW PILE OUTLET	FT. BELOW OBSERV. POINT	BLOWS PER FT.	WT. PILE	VAL. OF STOL	TONS BEARING
0	6.6"	0-6	WT. PILE & HAMMER		
6.6"	7.6"	6-7	7	1.81	8.3 ✓
7.6"	8.6"	7-8	9	1.42	10.5 ✓
8.6"	9.6"	8-9	10	1.30	11.5 ✓
9.6"	10.6"	9-10	15	.90	16.7 ✓
10.6"	11.6"	10-11	21	.67	23.4 ✓
11.6"	12.6"	11-12	32	.48	31.3 ✓
12.6"	13.6"	12-13	35	.44	34.1 ✓
13.6"	14.6"	13-14	36	.43	34.9 ✓
14.6"	15.6"	14-15	60	.30	50.0 ✓
15.6"	16.6"	15-16	56	.31	48.4 ✓
16.6"	17.6"	16-17	48	.35	42.9 ✓
17.6"	18.6"	17-18	32	.48	31.3 ✓
18.6"	19.6"	18-19	34	.45	33.2 ✓
19.6"	20.6"	19-20	35	.44	34.1 ✓
20.6"	21.6"	20-21	32	.48	31.3 ✓
21.6"	22.6"	21-22	32	.48	31.3 ✓
22.6"	23.6"	22-23	21	.49	30.6 ✓
23.6"	24.6"	23-24	27	.54	27.8 ✓
24.6"	25.6"	24-25	29	.53	28.3 ✓
25.6"	26.6"	25-26	27	.54	27.8 ✓
26.6"	27.6"	26-27	31	.49	30.6 ✓
27.6"	28.6"	27-28	33	.46	32.6 ✓
28.6"	29.6"	28-29	28	.53	28.3 ✓
29.6"	30.6"	29-30	50	.34	44.1 ✓

BENTS 1, 2, 3 - 35' PILE LENGTH

DATE - 7-6-62  
 OBSERVED BY J.W. GERMAN & WALLS  
 Wt. HAMMER 5000 lbs. VULCAN No. 1  
 NAIL IN SIDE 20" Edm 300 RT. STA. 710+25  
 STAKE 100' RT. STA. 710+75

WEATHER Pt. Cloudy & Hot  
 STAMPED - T.H.D.  
 DATE MADE - 4-5-62

PEN. BELOW PILE OUTLET	PEN. BELOW OBSERV. POINT	BLOWS PER FT.	VAL. OF STOL	TONS BEARING
30.6"	31.6"	30-31	.29	51.7 ✓
31.6"	32.6"	31-32	.30	50.0 ✓
32.6"	33.6"	32-33	.30	50.0 ✓
33.6"	34.6"	33-34	.27	55.5 ✓
34.6"	35.6"	34-35	.27	55.5 ✓
35.6"	36.6"	35-36	.26	57.7 ✓
36.6"	37.6"	36-37	.27	55.5 ✓
37.6"	38.6"	37-38	.27	55.5 ✓
38.6"	39.6"	38-39	.24	62.5 ✓
39.6"	39.7"	39-39.1	.21	71.4 ✓
39.7"	39.8"	39.1-39.2	.23	65.2 ✓
39.8"	39.9"	39.2-39.3	.21	71.4 ✓
39.9"	39.10"	39.3-39.4	.21	71.4 ✓
39.10"	39.11"	39.4-39.5	.21	71.4 ✓
39.11"	40"	39.5-39.6	.21	71.4 ✓

COMP BY J.W. GERMAN 7-7-62

H.T.	356.99
ROD RD. ON GROUND	13.68
GROUND ELEV.	343.31
TOP OF PILE ELEV.	343.81
CUT OFF ELEV.	343.81
TOTAL PENETRATION	40.0
OBSERVATION POINT ELEV.	343.31

Below cut-off

BRIDGE No. 7				
PRECAST CONCRETE PILE				
BENT No. 3 STA. 0+84 (ST) LENGTH 40.0' PILES No. 3				
MINIMUM REQ. BEARING = 30 TONS				
B.M.	13.65	366.75		353.10
TP.	3.66	356.99	13.42	353.33
PEN. BELOW PILE CUT OFF	PEN. BELOW OBSER. POINT	BLOWS PER FT.	VALUE OF STOK	TONS BEARING
WT. PILE & HAMMER				
0-6.8"	0-6			
6.8-7.8	6-7	7	1.81	8.3 ✓
7.8-8.8	7-8	7	1.81	8.3 ✓
8.8-9.8	8-9	8	1.60	9.4 ✓
9.8-10.8	9-10	9	1.43	10.5 ✓
10.8-11.8	10-11	10	1.30	11.5 ✓
11.8-12.8	11-12	12	1.10	13.6 ✓
12.8-13.8	12-13	14	.96	15.6 ✓
13.8-14.8	13-14	17	.81	18.5 ✓
14.8-15.8	14-15	24	.60	25.0 ✓
15.8-16.8	15-16	28	.53	28.2 ✓
16.8-17.8	16-17	31	.49	30.6 ✓
17.8-18.8	17-18	37	.42	35.7 ✓
18.8-19.8	18-19	34	.45	33.3 ✓
19.8-20.8	19-20	32	.48	31.3 ✓
20.8-21.8	20-21	30	.50	30.0 ✓
21.8-22.8	21-22	33	.46	32.6 ✓
22.8-23.8	22-23	38	.42	35.7 ✓
23.8-24.8	23-24	34	.45	33.3 ✓
24.8-25.8	24-25	34	.45	33.3 ✓
25.8-26.8	25-26	34	.45	33.3 ✓
26.8-27.8	26-27	33	.46	32.6 ✓
27.8-28.8	27-28	35	.44	34.1 ✓
28.8-29.8	28-29	36	.43	34.9 ✓
29.8-30.8	29-30	37	.42	35.7 ✓

DATE - 7-6-62		WEATHER - Pt. Cloudy 84°F		
OBSERVED BY - J.W. GERMAN & WALLS		STAMPED T.H.D.		
WT. HAMMER 5,000 lbs. VULCAN No. 1		DATE MADE 4-5-62		
NAIL IN SIDE 20" ELM 300' RT		STA. 710+25		
STAKE 100' RT		STA. 710+75		
PEN. BELOW PILE CUT OFF	PEN. BELOW OBSER. POINT	BLOWS PER FT.	VALUE OF STOK	TONS BEARING
30.8'	31.8'	30.31	.37	42 ✓
31.8'	32.8'	31.32	.37	42 ✓
32.8'	33.8'	32.33	.34	32 ✓
33.8'	34.8'	33.34	.30	25 ✓
34.8'	35.8'	34.35	.27	22 ✓
35.8'	36.5'	35.36	.26	15 ✓
36.5'	36.6'	35.9'	.26	14 ✓
36.6'	36.7'	35.10'	.27	14 ✓
36.7'	36.8'	35.11'	.27	14 ✓
36.8'	36.9'	36.1'	.28	14 ✓
36.9'	36.10'	36.2'	.30	13 ✓
REFUSAL AFTER 36.10" PEN.				
Comp BY J.W. GERMAN 7-7-62				
H.I.				356.99
ROD RD. ON GROUND				12.31
GROUND ELEV.				346.68 ✓
TOP OF PILE ELEV.				350.60 ✓
CUT OFF ELEV.				347.43 ✓
TOTAL PENETRATION				36.10" Below cut off
OBSERVATION POINT ELEV.				346.76







BRIDGE NO. 7

SPAN NO. 1

S. LENSE 35.0'

CELL NO.	DEPTH	CONC.	SP. IN. CONC.	SP. NO.	DATE OBSERVED
1	35.5	22	32-34	35.5	7-16-63
2	35.0	0.0	18.0	35.0	7-16-63
3	35.0	1.0	35.0	35.0	7-16-63
4	35.0	0.0	35.0	35.0	7-16-63
5	35.0	0.0	35.0	35.0	7-16-63
6	35.0				
7					
8					
9					
10					
11					

OBSERVED BY J. W. WALLS

City of ... 308-31-171-21

FRONT ...  
 SIZE 1. ...  
 (SIZE 1. ...)

282 417

NO. OF ... 346.53

BEARING ...

RKE NO.	PERI.	BAWYS	WAVE AT ...	TEMPERATURE
1	12"	101	10	33.5
2	12"	102	10	38.5
3	12"	72	31	38.5
4	12"	60	31	37.5
5	12"	40	40	37.5
6	12"	60	30	50.0
7	12"	52	33	45.5
8	12"	50	34	44.1
9	12"	40	40	37.5
10	12"	50	34	44.1

BRIDGE NO. 1

BRIDGE NO. 2

PILE LENGTH 35.0'

PILE NO.	LENGTH	DATE DRIVEN	PILE NO.	LENGTH	DATE DRIVEN
1	35.0'	7-11-62	6	35.0'	7-13-62
2	35.0'	7-11-62	7	35.0'	7-13-62
3	35.0'	7-11-62	8	TEST PILE	
4	35.0'	7-11-62	9	35.0'	7-13-62
5	35.0'	7-11-62	10	35.0'	7-13-62

TOWNS 175.0'

OBSERVED BY - J.W. GERMAN & WALLS

QUANTITIES SUB-STRUCTURE

FRONT PROPORT

CON. 7" DIA. PILES CASE "H" SINK PILE

SIZE (CIRC.) (SIZE) CIRC. REINF.

1821 184.3

AL. 30.1 4431

CUTOFF PLAN = 343.81

BEARING DATA

1/2

PILE NO.	FR.	BLows	SETBACK	TOTAL BEARING
1	12"	77	.26	57.7
2	12"	108	.21	71.4
3	12"	115	.20	75.0
4	12"	58	.31	48.4
5	12"	80	.25	60.0
R.A.				
6	12"	69	.27	55.5
7	12"	98	.22	68.2
8	TEST PILE			
9	12"	83	.24	62.5
10	12"	90	.23	65.2





BRIDGE

ABUT. No. 2

PILE LENGTH - 15.0 FT.

PILE NO.	DEPTH	DATE DRIVEN
1	15.0'	7-16-62
2	15.0'	7-16-62
3	15.0'	7-16-62
4	15.0'	7-16-62
5	15.0'	7-17-62
6	15.0'	7-17-62
TOTALS	90.0'	

BEARING DATA

PILE NO.	DEPTH	BLOWS	VALUE OF SOIL	TONS BEARING
1	15"	36	.36	41.7
2	15"	36	.36	41.7
3	17"	36	.43	34.9
4	12"	45	.37	40.5
5	15"	38	.38	39.5
6	15"	37	.37	40.5

OBSERVED BY JWG & WALLS

PILE QUANTITIES SUB. STRUCTURE

STEEL PIPE  
BEARING

21.5 2206

CUT OFF ELEV. = 367.50

