



RAY D. BASS
HIGHWAY DIRECTOR

STATE OF ALABAMA
HIGHWAY DEPARTMENT

FIFTH DIVISION
OFFICE OF DIVISION ENGINEER
1701 BELTLINE HIGHWAY, NORTH
P. O. BOX 7158
MOBILE, ALABAMA 36607
Telephone: 471-3441

April 19, 1973

"B" BRIDGE

Mr. C. A. Bowles, Engineer
Bureau of Construction
State Highway Department
Montgomery, Alabama 36104

Re: Project I-10-1(34)27
Mobile County
14" Square Concrete Piling

Dear Sir:

Attached please find the original and three (3) copies of Driving Records for 14" Square Concrete Piling in East and West Bound Lanes, Bents E-5 thru E-8 and W-4 thru W-7. This completes the 14" Square Piling in East and West Bound Lanes of the East Tunnel Interchange.

If additional information is needed please advise.

Yours very truly,


M. H. Wilkins
Division Engineer

DCC/caf
Attach/

cc: Mr. I. G. Pope
Mr. D. C. Collins
Mr. R. E. Jaye
File ✓



~~GENERAL PROJECT~~
~~HIGHWAY DIRECTOR~~

STATE OF ALABAMA HIGHWAY DEPARTMENT

FIFTH DIVISION
OFFICE OF DIVISION ENGINEER
1701 BELTLINE HIGHWAY, NORTH
P. O. BOX 7158
MOBILE, ALABAMA 36607
Telephone: 471-3441

April 16, 1973

Heritage ✓

RAY BASS
~~ASSISTANT~~ HIGHWAY DIRECTOR

Mr. T. G. Drinkard
Division Construction Engineer
State Highway Department
Mobile, Alabama

Re: Project EMP I-10-1(34)27
Mobile County

Dear Sir:

Attached are 6 (six) copies of Driving Record of Concrete Piling on the above referenced project. This completes the 14" Square Piling in the West Bound Lane of East Tunnel Interchange.

Yours truly,

R. E. Jaye

R. E. Jaye
Project Engineer

cc: File

STATE HIGHWAY DEPARTMENT OF ALABAMA
DRIVING RECORD OF ~~STEEL~~ PILING

Concrete

Page 1 Of 2

County Mobile Division 5th Project EMP I-10-1(34)27Road between East Tunnel Interchange ~~road~~ East Bound LaneBridge: Station 107 + 22.42 to Station 136 + 00Contractor Moss-Thornton, Co. Sub-Contractor Gulf City Const. Inspector K. E. Gray

Bents numbered as per plans if shown, otherwise numbered from north on east end. Piles numbered from left to right.

Weight of ~~(XXXX)~~ ^{Air} ~~(XXXX)~~ hammer 10,000 Type O10 Vulcan Size of Piling 14" Sq. Cons

Date	No. Bent	No. Pile	Pay Splices	Added Pile	Furn. Length	Ordered Length	Actual Length in Str.	Actual Length CutOff	Length Pay CutOff	Last 10 Blows		Total Penetration	Kind of Soil	Computed Bearing	CutOff to Ground
										Drop of Hammer	Penetr. 10 Blows				
XXXXXX						Bent E-5	East Bound Lane								
4-12-72	5	1	0=	0	56'	56'	56'	0	0	3.25	3 1/8	55		76.47	1.0
4-12-72	5	2	0	0	56	56	56	0	0	3.25	3	55		81.25	1.0
4-12-72	5	3	0	0	56	56	56	0	0	3.25	3	55		81.25	1.0
4-12-72	5	4	0	0	56	56	56	0	0	3.25	3 1/2	55		72.22	1.0
4-12-72	5	5	0	0	56	56	56	0	0	3.25	3 1/4	55		76.47	1.0
4-11-72	5	6	0	0	56	56	56	0	0	3.25	3 1/8	55		78.79	1.0
4-11-72	5	7	0	0	56	56	56	0	0	3.25	3	55		81.25	1.0
4-11-72	5	8	0	0	56	56	56	0	0	3.25	3 1/8	55		78.79	1.0
4-11-72	5	9	0	0	56	56	56	0	0	3.25	3 1/4	55		76.47	1.0
4-11-72	5	10	0	0	56	56	56	0	0	3.25	3 1/2	55		72.22	1.0
4-11-72	5	11	0	0	56	56	56	0	0	3.25	3 1/2	55		72.22	1.0
4-11-72	5	12	0	0	56	56	56	0	0	3.25	3 1/8	55		76.47	1.0
4-11-72	5	13	0	0	56	56	56	0	0	3.25	3	55		81.25	1.0
4-11-72	5	14	0	0	56	56	56	0	0	3.25	3 1/2	55		72.22	1.0
4-12-72	5	15	0	0	56	56	56	0	0	3.25	3 3/8	55		74.29	1.0
4-10-72	5	16	0	0	56	56	56	0	0	3.25	3 3/8	55		74.29	1.0
			Total	Total	Total	Total	Total	Total	Total						

Correct _____ Approved _____

Resident Engineer

Division Engineer

Show changes in plan on back of this sheet

County Mobile Division 5th Project BF I-10-1(34)27
Road between East Tunnel Interchange ~~xxx~~ East Bound Lane

Bridge: Station 107 + 22.42 to Station 136 + 00

Contractor Moss-Thornton, Co. Sub-Contractor Gulf City Const. Inspector K. E. Gray

Bents numbered as per plans if shown, otherwise numbered from north on east end. Piles numbered from left to right.

Weight of ~~(pump)~~ ^{Air} ~~hammer~~ ^{hammer} 10,000 Type O10 Vulcan Size of Piling 14" Sq. Conc

Date	No. Bent	No. Pile	Pay Splices	Added Pile	Furn. Length	Ordered Length	Actual Length in Str.	Actual Length CutOff	Length Pay CutOff	Last 10 Blows		Total Penetration	Kind of Soil	Computed Bearing	CutOff to Ground
										Drop of Hammer	Penetr. 10 Blows				
4-10-72	5	17 18	0	0	56	56	56	0	0	3.25	3 1/2	55		72.22	1.0
4-12-72	5	19	0	0	56	56	56	0	0	3.25	3 1/2	55		72.22	1.0
4-12-72	5	20	0	0	56	56	56	0	0	3.25	3 5/8	55		70.27	1.0
4-12-72	5	21	0	0	56	56	56	0	0	3.25	3 3/8	55		74.29	1.0
4-12-72	5	22	0	0	56	56	56	0	0	3.25	3 1/4	55		76.47	1.0
4-12-72	5	23	0	0	56	56	56	0	0	3.25	3 1/2	55		72.22	1.0
4-11-72	5	24	0	0	56	56	56	0	0	3.25	2 7/8	55		83.87	1.0
4-11-72	5	25	0	0	56	56	56	0	0	3.25	3 1/4	55		76.47	1.0
4-10-72	5	26	0	0	56	56	56	0	0	3.25	3 1/2	55		72.22	1.0
4-10-72	5	27	0	0	56	56	56	0	0	3.25	3 1/2	55		72.22	1.0
4-10-72	5	28	0	0	56	56	56	0	0	3.25	3 3/8	55		74.29	1.0
4-10-72	5	29	0	0	56	56	56	0	0	3.25	3 5/8	55		70.27	1.0
4-10-72	5	30	0	0	56	56	56	0	0	3.25	3 1/4	55		76.47	1.0
4-10-72	5	31	0	0	56	56	56	0	0	3.25	2 7/8	55		83.87	1.0
4-10-72	5	32	0	0	56	56	56	0	0	3.25	3	55		81.25	1.0
			0 Total	0 Total	1,792 Total	1,792 Total	1,792 Total	0 Total	0 Total						

TOTAL CORRECT

Direct R. E. Jay
Resident Engineer

Approved

Division Engineer

Show changes in plan on back of this sheet

County Mobile Division Fifth Project I-10-1(3402)

Road between East Tunnel Interchange ~~xxx~~ East Bound Lane

Bridge: Station 107+22.42 to Station 136+00

Contractor Moss Thornton Inc. Sub-Contractor Gulf City Const. Co. Inspector Gray & Woodham

Bents numbered as per plans if shown, otherwise numbered from north on east end. Piles numbered from left to right.

Weight of ~~(1000)~~ ~~(5000)~~ hammer 10,000 Type Vulcan 610 Size of Piling 14" Sq. Conc

Date	No. Bent	No. Pile	Pay Splices	Added Pile	Furn. Length	Ordered Length	Actual Length in Str.	Actual Length CutOff	Length Pay CutOff	Last 10 Blows		Total Penetration	Kind of Soil	Com-puted Bearing	CutOff to Ground
										Drop of Hammer	Penetr. 10 Blows				
						Bent E-6	East Bound Lane								
5-19-72	E-6	1	0	0	56	56	56	0	0	3.25	3 1/4	55		76.47	1.0
5-19-72	E-6	2	0	0	56	56	56	0	0	3.25	3	55		81.25	1.0
5-19-72	E-6	3	0	0	56	56	56	0	0	3.25	2 7/8	55		83.87	1.0
5-19-72	E-6	4	0	0	56	56	56	0	0	3.25	3	55		81.25	1.0
5-19-72	E-6	5	0	0	56	56	56	0	0	3.25	2 3/4	55		86.67	1.0
5-19-72	E-6	6	0	0	56	56	56	0	0	3.25	2 1/2	55		92.86	1.0
5-19-72	E-6	7	0	0	56	56	56	0	0	3.25	3 1/4	55		76.47	1.0
5-19-72	E-6	8	0	0	56	56	56	0	0	3.25	3 3/8	55		81.25	1.0
5-19-72	E-6	9	0	0	56	56	56	0	0	3.25	2 7/8	55		83.87	1.0
5-19-72	E-6	10	0	0	56	56	56	0	0	3.25	3 1/4	55		76.47	1.0
5-19-72	E-6	11	0	0	56	56	56	0	0	3.25	3 1/8	55		78.79	1.0
5-19-72	E-6	12	0	0	56	56	56	0	0	3.25	3	55		81.25	1.0
5-22-72	E-6	13	0	0	56	56	56	0	0	3.25	2 7/8	55		83.87	1.0
5-22-72	E-6	14	0	0	56	56	56	0	0	3.25	3	55		81.25	1.0
5-22-72	E-6	15	0	0	56	56	56	0	0	3.25	3 1/4	55		76.47	1.0
5-22-72	E-6	16	0	0	56	56	56	0	0	3.25	3	55		83.87	1.0
			Total	Total	Total	Total	Total	Total	Total						

Correct _____ Approved _____
Resident Engineer Division Engineer

Show changes in plan on back of this sheet

STATE OF ALABAMA, HIGHWAY DEPARTMENT
DRIVING RECORD OF ~~PILE~~ PILING
Precast Prestressed Concrete

Page 2 of 3

County Mobile Division Fifth Project I-10-1(34)27
located between East Tunnel Interchange ~~road~~ East Boring Lane
Bridge: Station 107+22.42 to Station 136+00
Contractor Moss Thornton Sub-Contractor Gulf City Const. Co. Inspector Gray & Woodham
Piles numbered as per plans if shown, otherwise numbered from north on east end. Piles numbered
from left to right.
Weight of ~~steel~~ Air ~~hammer~~ 10,000 Type Vulcan O10 Size of Piling 14" Sq. Conc.

Pile No.	No. Bent	No. File	Pay Splices	Added Pile	Furn. Length	Ordered Length	Actual Length in Str.	Actual Length CutOff	Length Pay CutOff	Last 10 Blows		Total Pene- tration	Kind of Soil	Com- puted Bearing	CutOff to Ground
										Drop of Hammer	Penetr. 10 Blows				
2-72	E-6	17	0	0	56-	56	56	0	0	3.25	3	55		76.47	1.00
2-72	E-6	18	0	0	56	56	56	0	0	3.25	2 7/8	55		83.87	1.00
2-72	E-6	19	0	0	56	56	56	0	0	3.25	3 1/2	55		72.22	1.00
2-72	E-6	20	0	0	56	56	56	0	0	3.25	3 1/2	55		72.22	1.00
2-72	E-6	21	0	0	56	56	56	0	0	3.25	3 1/4	55		76.47	1.00
2-72	E-6	22	0	0	56	56	56	0	0	3.25	3 1/2	55		72.22	1.00
2-72	E-6	23	0	0	56	56	56	0	0	3.25	3 1/4	55		76.47	1.00
2-72	E-6	24	0	0	56	56	56	0	0	3.25	2 7/8	55		83.87	1.00
2-72	E-6	25	0	0	56	56	56	0	0	3.25	2 1/2	55		92.86	1.00
2-72	E-6	26	0	0	56	56	56	0	0	3.25	2 3/4	55		86.67	1.00
2-72	E-6	27	0	0	56	56	56	0	0	3.25	2 1/2	55		92.86	1.00
2-72	E-6	28	0	0	56	56	56	0	0	3.25	2 3/4	55		86.67	1.00
2-72	E-6	29	0	0	56	56	56	0	0	3.25	3	55		81.25	1.00
2-72	E-6	30	0	0	56	56	56	0	0	3.25	2 3/4	55		86.67	1.00
2-72	E-6	31	0	0	56	56	56	0	0	3.25	2 1/2	55		92.86	1.00
2-72	E-6	32	0	0	56	56	56	0	0	3.25	2 3/4	55		86.67	1.00
2-72	E-6	33	0	0	56	56	56	0	0	3.25	3	55		81.25	1.00
					Total	Total	Total	Total	Total	Total					

Correct _____ Approved _____ Division Engineer
Resident Engineer

Show changes in plan on back of this sheet

Bridge: Station 107+22.42 to Station 136+00

Contractor Moss Thornton Sub-Contractor Gulf City Const. Inspector Gray & Woodham

ents numbered as per plans if shown, otherwise numbered from north on east end. Piles numbered from left to right.

eight of (~~drum~~ ~~air~~ ~~hammer~~) hammer 10,000 Type Vulcan 010 Size of Piling 14" Sq. Conc.

t R. E. J. J. J. Resident Engineer Approved _____

Show changes in plan on back of ...

STATE OF ALABAMA HIGHWAY DEPARTMENT
DRIVING RECORD OF ~~STEEL~~ PILING
Concrete

Page 1 of 3

County Mobile Division Fifth Project EMP 1-10-1(3b)27Road between East Tunnel Interchange and East Bound LaneBridge: Station 107+22.42 to Station 136+00Contractor Moss-Thornton Co., Inc. Sub-Contractor Gulf City Constr. Co. Inspector Gray & Woodham

Bents numbered as per plans if shown, otherwise numbered from north on east end. Piles numbered from left to right.

Weight of (~~Steel~~) ^{Air} (~~Steel~~) ~~XXXXX~~ 10,000# Type Vulcan O10 Size of Piling 14" Sq. Conc.

Date	No. Bent	No. Pile	Pay Splices	Added Pile	Furn. Length	Ordered Length	Actual Length in Str.	Actual Length CutOff	Length Pay CutOff	Last 10 Blows		Total Penetration	Kind of Soil	Computed Bearing	CutOff to Ground
										Drop of Hammer	Penetr. 10 Blows				
						Bent	E-7	East Bound Lane							
6-7-72	E-7	0	0	550	57	57	57	0	0	3.25	3"	56'	Sand	81.25	1'
6-8-72	E-7	2	0	0	57	57	57	0	0	3.25	27/8	56	Sand	83.87	1
6-8-72	E-7	3	0	0	57	57	57	0	0	3.25	3	56	Sand	81.25	1
6-8-72	E-7	4	0	0	57	57	57	0	0	3.25	3	56	Sand	81.25	1
6-7-72	E-7	5	0	0	57	57	57	0	0	3.25	2 3/4	56	Sand	86.67	1
6-7-72	E-7	6	0	0	57	57	57	0	0	3.25	2 1/2	56	Sand	92.86	1
6-7-72	E-7	7	0	0	57	57	57	0	0	3.25	2 3/4	56	Sand	86.67	1
6-7-72	E-7	8	0	0	57	57	57	0	0	3.25	2 1/2	56	Sand	92.86	1
6-7-72	E-7	9	0	0	57	57	57	0	0	3.25	3	56	Sand	81.25	1
6-7-72	E-7	10	0	0	57	57	57	0	0	3.25	2 7/8	56	Sand	83.87	1
6-7-72	E-7	11	0	0	57	57	57	0	0	3.25	3 1/4	56	Sand	76.47	1
6-7-72	E-7	12	0	0	57	57	57	0	0	3.25	3	56	Sand	81.25	1
6-7-72	E-7	13	0	0	57	57	57	0	0	3.25	2/34	56	Sand	86.67	1
6-7-72	E-7	14	0	0	57	57	57	0	0	3.25	3	56	Sand	81.25	1
6-7-72	E-7	15	0	0	57	57	57	0	0	3.25	2 7/8	56	Sand	83.87	1
			Total	Total	Total	Total	Total	Total	Total						

Correct _____ Approved _____
Resident Engineer Division Engineer

Show changes in plan on back of this sheet

STATE OF ALABAMA HIGHWAY DEPARTMENT
DRIVING RECORD OF ~~STEEL~~ PILING

Concrete

Page 2 of 3

County Mobile Division Fifth Project EMP I-10-1(34)27Road between East Tunnel Interchange and East Bound LaneBridge: Station 107+22.42 to Station 136+00Contractor Moss-Thornton Co., Inc. Sub-Contractor Gulf City Constr. Co. Inspector Gray & Woodham

Bents numbered as per plans if shown, otherwise numbered from north on east end. Piles numbered from left to right.

Weight of (~~drop~~) Air (~~steel~~) ~~hammer~~ 10,000# Type Vulcan O10 Size of Piling 14" Sq. Conc.

Date	No. Bent	No. Pile	Pay Splices	Added Pile	Furn. Length	Ordered Length	Actual Length in Str.	Actual Length CutOff	Length Pay CutOff	Last 10 Blows		Total Penetration	Kind of Soil	Computed Bearing	CutOff to Ground
										Drop of Hammer	Penetr. 10 Blows				
6-7-72	E-7	16	0	0	57	57	57	0	0	3.25	3 1/4	56	Sand	76.47	1
6-7-72	E-7	17	0	0	57	57	57	0	0	3.25	2 3/4	56	Sand	86.67	1
6-7-72	E-7	18	0	0	57	57	57	0	0	3.25	3	56	Sand	81.25	1
6-7-72	E-7	19	0	0	57	57	57	0	0	3.25	3	56	Sand	81.25	1
6-6-72	E-7	20	0	0	57	57	57	0	0	3.25	3 1/4	56	Sand	76.47	1
6-6-72	E-7	21	0	0	57	57	57	0	0	3.25	2 7/8	56	Sand	83.87	1
6-6-72	E-7	22	0	0	57	57	57	0	0	3.25	3	56	Sand	81.25	1
6-6-72	E-7	23	0	0	57	57	57	0	0	3.25	3 1/4	56	Sand	76.47	1
6-8-72	E-7	24	0	0	57	57	57	0	0	3.25	2 7/8	56	Sand	83.87	1
6-8-72	E-7	25	0	0	57	57	57	0	0	3.25	3	56	Sand	81.25	1
6-8-72	E-7	26	0	0	57	57	57	0	0	3.25	2 3/4	56	Sand	86.67	1
6-8-72	E-7	27	0	0	57	57	57	0	0	3.25	2 7/8	56	Sand	83.87	1
6-9-72	E-7	28	0	0	57	57	57	0	0	3.25	3	56	Sand	81.25	1
6-9-72	E-7	29	0	0	57	57	57	0	0	3.25	3 1/4	56	Sand	76.47	1
6-9-72	E-7	30	0	0	57	57	57	0	0	3.25	2 3/4	56	Sand	86.67	1
6-9-72	E-7	31	0	0	57	57	57	0	0	3.25	3	56	Sand	81.25	1
6-9-72	E-7	32	0	0	57	57	57	0	0	3.25	3	56	Sand	81.25	1
			Total	Total	Total	Total	Total	Total	Total						

Correct _____ Approved _____
Resident Engineer Division Engineer

Show changes in plan on back of this sheet

County Mobile Division 5th Project EMP I-10-1(3L)27

Road between East Tunnel Interchange ~~and~~ East Bound Lane

Bridge: Station 107 + 22.42 to Station 136 + 00

Contractor Moss-Thornton Co., Inc. Sub-Contractor Gulf City Const Co Inspector Gray

Bents numbered as per plans if shown, otherwise numbered from north on east end. Piles numbered from left to right.

from left to right. Ram

Weight of (deep) (specimen) hammer 10,000 Type Old Vulcan Size of Piling 14" Sq.

Date	No. Bent	No. Pile	Pay Splices	Added Pile	Furn. Length	Ordered Length	Actual Length in Str.	Actual Length CutOff	Length Pay CutOff	Last 10 Blows		Total Penetration	Kind of Soil	Com-puted Bearing	CutOff to Ground
										Drop of Hammer	Penetr. 10 Blows				
				Bent E-8	East	Bound	Lane								
4-29-72	E-8	1	0	0	54	54	54	0	0	3.25	3	53		81.25	1.0
4-29-72	E-8	2	0	0	54	54	54	0	0	3.25	3 1/4	53		76.47	1.0
4-29-72	E-8	3	0	0	54	54	54	0	0	3.25	3 1/8	53		78.79	1.0
4-29-72	E-8	4	0	0	54	54	54	0	0	3.25	2 7/8	53		83.87	1.0
4-29-72	E-8	5	0	0	54	54	54	0	0	3.25	3	53		81.25	1.0
4-28-72	E-8	6	0	0	54	54	54	0	0	3.25	3 1/4	53		76.47	1.0
4-28-72	E-8	7	0	0	54	54	54	0	0	3.25	2 3/4	53		86.67	1.0
4-28-72	E-8	8	0	0	54	54	54	0	0	3.25	2 5/8	53		89.66	1.0
4-28-72	E-8	9	0	0	54	54	54	0	0	3.25	3	53		81.25	1.0
4-29-72	E-8	10	0	0	54	54	54	0	0	3.25	3 1/2	53		72.22	1.0
4-29-72	E-8	11	0	0	54	54	54	0	0	3.25	3 1/2	53		72.22	1.0
4-29-72	E-8	12	0	0	54	54	54	0	0	3.25	3 1/8	53		76.79	1.0
4-29-72	E-8	13	0	0	54	54	54	0	0	3.25	3	53		81.25	1.0
4-29-72	E-8	14	0	0	54	54	54	0	0	3.25	3 1/4	53		76.47	1.0
4-29-72	E-8	15	0	0	54	54	54	0	0	3.25	2 7/8	53		83.87	1.0
4-29-72	E-8	16	0	0	54	54	54	0	0	3.25	2 15/16	53		82.54	1.0
			Total	Total	Total	Total	Total	Total	Total						

Correct

Approved

Resident Engineer

Division Engineer

Show changes in plan on back of this sheet

STATE HIGHWAY DEPARTMENT OF ALABAMA
DRIVING RECORD OF ~~EXCESS~~ PILING
Precast Prestressed Concrete

County Mobile Division Fifth Project EMF I-10-1(34)27

Road between East Tunnel Interchange and East Bound Lane

Bridge: Station 107+22.42 to Station 136+00

Contractor Moss-Thomson Co. Inc. Sub-Contractor Gulf City Const. Co. Inspector Gray

Bents numbered as per plans if shown, otherwise numbered from north on east end. Piles numbered from left to right.

Weight of ~~(EXCESS)~~ Ram ~~(EXCESS)~~ 10,000 Type 010 Vulcan Size of Piling 11" Sq

Date	No. Bent	No. Pile	Pay Splices	Added Pile	Furn. Length	Ordered Length	Actual Length in Str.	Actual Length CutOff	Length Pay CutOff	Last 10 Blows		Total Penetration	Kind of Soil	Computed Bearing	CutOff to Ground
										Drop of Hammer	Penetr. 10 Blows				
2-29-72	E-8	17	0	0	54	54	54	0	0	3.25	3"	53'	Sand Clay	81.25	1'
2-29-72	E-8	18	0	0	54	54	54	0	0	3.25	3 1/2	53		76.47	1.0
2-29-72		19			TEST PILE						4 1/2			61.90	
2-29-72	E-8	20	0	0	54	54	54	0	0	3.25	3	53		81.25	1.0
2-29-72	E-8	21	0	0	54	54	54	0	0	3.25	3	53		81.25	1.0
2-29-72	E-8	22	0	0	54	54	54	0	0	3.25	2 7/8	53		83.87	1.0
2-29-72	E-8	23	0	0	54	54	54	0	0	3.25	2 3/4	53		86.67	1.0
2-28-72	E-8	24	0	0	54	54	54	0	0	3.25	2 15/16	53		82.51	1.0
2-28-72	E-8	25	0	0	54	54	54	0	0	3.25	3	53		81.25	1.0
2-28-72	E-8	26	0	0	54	54	54	0	0	3.25	3 1/8	53		78.79	1.0
2-28-72	E-8	27	0	0	54	54	54	0	0	3.25	3	53		81.85	1.0
2-28-72	E-8	28	0	0	54	54	54	0	0	3.25	3 1/2	53		76.47	1.0
2-28-72	E-8	29	0	0	54	54	54	0	0	3.25	3 1/2	53		76.47	1.0
2-28-72	E-8	30	0	0	54	54	54	0	0	3.25	2 7/8	53		83.87	1.0
2-28-72	E-8	31	0	0	54	54	54	0	0	3.25	3	53		81.25	1.0
2-28-72	E-8	32	0	0	54	54	54	0	0	3.25	3 3/8	53		74.29	1.0
2-28-72	E-8	33	0	0	54	54	54	0	0	3.25	3 1/4	53		76.47	1.0
			Total	Total	Total	Total	Total	Total	Total						

Correct _____ Approved _____
Resident Engineer Division Engineer

STATE HIGHWAY DEPARTMENT OF ALABAMA
DRIVING RECORD OF ~~STATE~~ PILING
Precast Prestressed Concrete

Page 3 of 3

County Mobile

Division Fifth

Project EMP I-10-1(34)27

Road between East Tunnel Interchange

and East Bound Lane

Bridge: Station 107+22.42

Contractor Moss-Thornton Co. Inc. Sub-Contractor to Station 136+00

Bents numbered as per plans if shown, otherwise numbered from left to right.

Weight of (drift) Ram 10,000 Inspector Gray
(drift) otherwise numbered from north on east end. Piles numbered
Type 010

Type 010 Vulcan

Size of Piling 7 1/2" S

[illegible]

Resident Engineer

Approved

Division Engineer

Asst. Const. Engineer

Show changes in plan on back of this sheet



RAY D. BASS
HIGHWAY DIRECTOR

STATE OF ALABAMA HIGHWAY DEPARTMENT

FIFTH DIVISION
OFFICE OF DIVISION ENGINEER
1701 BELTLINE HIGHWAY, NORTH
P. O. BOX 7158
MOBILE, ALABAMA 36607
Telephone: 471-3441

May 21, 1973

Mr. C. A. Bowles, Engineer
Bureau of Construction
State Highway Department
Montgomery, Alabama 36104

I-10-49-027.7B

Re: Proj. EMP I-10-1(34)27
Mobile County

Dear Sir:

Attached please find the original and three (3) copies of the 30" Square Concrete Piling in Bents E-2 thru E-4 and Bents E-9 thru E-49 of the East Bound Lane.

This completes the 30" Piling in the East Bound Lane of the East Tunnel Interchange.

Yours very truly,

M. H. Wilkins
Division Engineer

DCC/caf
Attach.

cc: Mr. I. G. Pope
Mr. D. C. Collins
Mr. R. E. Jaye ✓
File

STAT. HIGHWAY DEPARTMENT OF ALA. 4A
DRIVING RECORD OF ~~BURR~~ PILING
Precast Reinforced Concrete

Page 1 of 1

County Mobile Division Fifth Project IMP I-10-1(34)27

Road between East Tunnel Interchange and East Bound Lane

Bridge: Station 107+22.42 to Station 136+00.00

Contractor Hess-Thornton Co. Inc. Sub-Contractor Gulf City Const. Co. Inspector Rauch & Gray

Bents numbered as per plans if shown, otherwise numbered from north on east end. Piles numbered from left to right.

Weight of ~~(steel)~~ ^{Air} (steel) hammer 16250 Type 016 Vulcan Size of Piling 30" Sq.

Date	No. Bent	No. Pile	Pay Splices	Added Pile	Furn. Length	Ordered Length	Actual Length in Str.	Actual Length CutOff	Length Pay CutOff	Last 10 Blows		Total Penetration	Kind of Soil	Computed Bearing	CutOff to Ground
										Drop of Hammer	Penetr. 10 Blows				
					Bent	E-2	East Bound Lane								
5-10-72	E-2	1	0	0	7 1/4	7 1/4	7 1/4	0	0	3.0	1/4	66.42		390.00	7.58
5-10-72	E-2	2	0	0	7 1/4	7 1/4	7 1/4	0	0	3.0	1/4	64.83		390.00	7.17
5-10-72	E-2	3	0	0	7 1/4	7 1/4	7 1/4	0	0	3.0	3/16	67.24		410.53	6.76
5-10-72	E-2	4	0	0	7 1/4	7 1/4	7 1/4	0	0	3.0	3/16	67.65		410.53	6.3
5-10-72	E-2	5	0	0	7 1/4	7 1/4	7 1/4	0	0	3.0	1/4	68.06		390.00	5.94
5-10-72	E-2	6	0	0	7 1/4	7 1/4	7 1/4	0	0	3.0	1/4	68.47		390.00	5.53
			0	0	11 1/4	11 1/4	11 1/4	0	0						
			Total	Total	Total	Total	Total	Total	Total						

Correct R. E. Jay Approved _____
Resident Engineer Division Engineer

Show changes in plan on back of this sheet

Weight of ~~drop~~ ~~Air~~ (steel) hammer 16,250 Type 016 Vulcan Size of Piling 30" Sq.

Show changes in plan on back of this sheet

Weight of (drop) ~~air~~ hammer 16,250 Type 016 Vulcan Size of Piling 10" Sq.

Show changes in plan on back of this sheet

Weight of ~~(drop)~~ ^(steam) hammer 16,250 Type Vulcan 016 Size of Piling 30" sq. Conc.

Show changes in plan on back of this sheet

Weight of ~~(drop)~~ ~~(steam)~~ hammer 16,250# Type Vulcan 016 Size of Piling 30" sq. conc.

Show changes in plan on back of this sheet

STATE OF ALABAMA HIGHWAY DEPARTMENT
DRIVING RECORD OF ~~STEEL~~ PILING

Concrete

County Mobile Division 5th Project MP 1-10-1(34)27

Road between East Tunnel Interchange and East Bound Lane

Bridge: Station 107+22.40 to Station 136+00

Contractor Moss-Thornton Co. Inc. Sub-Contractor Gulf City Constr. Co. Inspector Cauthen & Woodham

Bents numbered as per plans if shown, otherwise numbered from north on east end. Piles numbered from left to right.

Weight of (~~drop~~) (~~steam~~) hammer 16,250# Type Vulcan 016 Size of Piling 30" sq. cone.

Date	No. Bent	No. Pile	Pay Splices	Added Pile	Furn. Length	Ordered Length	Actual Length in Str.	Actual Length CutOff	Length Pay CutOff	Last 10 Blows		Total Pene- tration	Kind of Soil	Com- puted Bearing	CutOff to Ground
										Drop of Hammer	Penetr. 10 Blows				
9-15-72	E-13	1	0	0	86	86	86	0	0	3.0	5/8	54.96		300.00	31.0
9-15-72	E-13	2	0	0	86	86	86	0	0	3.0	5/8	55.32		300.00	30.0
9-15-72	E-13	3	0	0	86	86	86	0	0	3.0	9/16	55.69		312.00	30.0
9-15-72	E-13	4	0	0	86	86	86	0	0	3.0	9/16	56.06		312.00	29.5
9-15-72	E-13	5	0	0	86	86	86	0	0	3.0	1/2	56.42		325.00	29.5
			0	0	430	430	430	0	0						
9-18-72	E-14	1	0	0	86	86	86	0	0	3.0	5/8	55.39		300.00	30.0
9-18-72	E-14	2	0	0	86	86	86	0	0	3.0	9/16	55.76		312.00	30.0
9-18-72	E-14	3	0	0	86	86	86	0	0	3.0	9/16	56.13		312.00	29.5
9-18-72	E-14	4	0	0	86	86	86	0	0	3.0	1/2	56.50		325.00	29.5
9-18-72	E-14	5	0	0	86	86	86	0	0	3.0	5/8	56.86		300.00	29.5
			0	0	430	430	430	0	0						
			Total	Total	Total	Total	Total	Total	Total						

Correct R. E. J. J. J. Approved _____
Resident Engineer Division Engineer

Show changes in plan on back of this sheet

Weight of ~~(A) (P)~~ ^{A18} ~~(Steel)~~ hammer 32,500 Type Vulcan C16 Size of Piling 30" sq cone

Show changes in plan on back of this sheet

STATE OF ALABAMA HIGHWAY DEPARTMENT
DRIVING RECORD OF ~~STEEL~~ PILING
Concrete

County Mobile Division 5th Project IMP I-10-1(34)27

Road between East Tunnel Interchange and East Bound Lane

Bridge: Station 107+22.40 to Station 130+00

Contractor Moss-Thornton Co. Inc. Sub-Contractor Gulf City Constr. Co. Inspector Cauthen & Woodham

Bents numbered as per plans if shown, otherwise numbered from north on east end. Piles numbered from left to right.

Weight of (~~XXXX~~) ^{air} (~~XXXX~~) hammer 16,250# Type Vulcan 016 Size of Piling 30" sq. cone.

Date	No. Bent	No. Pile	Pay Splices	Added Pile	Furn. Length	Ordered Length	Actual Length in Str.	Actual Length CutOff	Length Pay CutOff	Last 10 Blows		Total Penetration	Kind of Soil	Com-puted Bearing	CutOff to Ground
										Drop of Hammer	Penetr. 10 Blows				
9-22-72	E-17	1	0	0	83	83	83	0	0	3.0	9/16	55.09		312.00	27.91
9-22-72	E-17	2	0	0	83	83	83	0	0	3.0	9/16	55.46		312.00	27.51
9-22-72	E-17	3	0	0	83	83	83	0	0	3.0	5/8	55.82		300.00	27.17
9-22-72	E-17	4	0	0	83	83	83	0	0	3.0	5/8	56.19		300.00	26.61
9-22-72	E-17	5	0	0	83	83	83	0	0	3.0	1/2	56.56		325.00	26.41
			0	0	415	415	415	0	0						
			Total	Total	Total	Total	Total	Total	Total						

Correct R. E. Jay Approved _____
Resident Engineer Division Engineer

Show changes in plan on back of this sheet

Weight of (drop) (steam) hammer 16,250 Type Vulcan 014 Size of Piling 30" sq. cone.

Show changes in plan on back of this sheet

STATE OF ALABAMA HIGHWAY DEPARTMENT
DRIVING RECORD OF STEEL PILING

County Mobile Division 5th Project I-10-1(34)27

Road between East Tunnel Interchange and East Bound Lane

Bridge: Station 107+22.42 to Station 136+00.00

Contractor Moss-Thornton Co. Inc Sub-Contractor Gulf City Const. Co. Inspector Woodham & Levine

Bents numbered as per plans if shown, otherwise numbered from north on east end. Piles numbered from left to right.

Weight of (drop) (steam) hammer 16,250 Type Vulcan 016 Size of Piling 30" Sq Cons.

Date	No. Bent	No. Pile	Pay Splices	Added Pile	Furn. Length	Ordered Length	Actual Length in Str.	Actual Length CutOff	Length Pay CutOff	Last 10 Blows		Total Penetration	Kind of Soil	Computed Bearing	CutOff to Ground
										Drop of Hammer	Penetr. 10 Blows				
							<u>Bent E-20</u>								
9-25-72	E-20	1	0	0	81	81	81	0	0	3.0	1/2	55.48		325.00	21.1
9-25-72	E-20	2	0	0	81	81	81	0	0	3.0	5/8	55.74		300.00	21.2
9-25-72	E-20	3	0	0	81	81	81	0	0	3.0	5/8	55.99		300.00	21.0
9-25-72	E-20	4	0	0	81	81	81	0	0	3.0	1/2	56.25		325.00	23.7
9-25-72	E-20	5	0	0	81	81	81	0	0	3.0	1/2	56.51		325.00	23.1
			0	0	405	405	405	0	0						
							<u>Bent E-21</u>								
10-4-72	E-21	1	0	0	79	79	79	0	0	3.0	1/2	55.08		325.00	23.9
10-4-72	E-21	2	0	0	79	79	79	0	0	3.0	7/16	55.27		339.13	23.7
10-4-72	E-21	3	0	0	79	79	79	0	0	3.0	1/2	55.46		325.00	23.5
10-4-72	E-21	4	0	0	79	79	79	0	0	3.0	9/16	55.65		312.00	23.2
10-4-72	E-21	5	0	0	79	79	79	0	0	3.0	3/8	55.84		354.55	23.1
10-4-72	E-21	6	0	0	79	79	79	0	0	3.0	3/8	56.03		354.55	22.9
10-4-72	E-21	7	0	0	79	79	79	0	0	3.0	5/8	56.22		300.00	22.7
10-4-72	E-21	8	0	0	79	79	79	0	0	3.0	5/8	56.41		300.00	22.5
			0	0	632	632	632	0	0						
			Total	Total	Total	Total	Total	Total	Total						

Correct _____ Approved _____
Resident Engineer Division Engineer

Show changes in plan on back of this sheet

STATE OF ALABAMA HIGHWAY DEPARTMENT
DRIVING RECORD OF STEEL PILING

County Mobile Division 5th Project 1-10-1(34)27

Road between East Tunnel Interchange and East Round Lane

Bridge: Station 107+22.42 to Station 136+00.00

Contractor Moss-Thornton Co., Inc. Sub-Contractor Gulf City Const Co. Inspector Carthen & Woodham

Bents numbered as per plans if shown, otherwise numbered from north on east end. Piles numbered from left to right.

Weight of (~~drop~~) (steam) hammer 16,250 Type Vulcan 016 Size of Piling 30" Sq Cons

Date	No. Bent	No. Pile	Pay Splices	Added Pile	Furn. Length	Ordered Length	Actual Length in Str.	Actual Length CutOff	Length Pay CutOff	Last 10 Blows		Total Penetration	Kind of Soil	Computed Bearing	CutOff to Ground
										Drop of Hammer	Penetr. 10 Blows				
							Bent E-22								
12-6-72	E-22	1	0	0	75	75	75	0	0	3.0	1/2	52.31		325.00	22.65
12-7-72	E-22	2	0	0	75	75	75	0	0	3.0	7/16	52.46		339.13	22.51
12-7-72	E-22	3	0	0	75	75	75	0	0	3.0	7/16	52.62		339.13	22.31
12-7-72	E-22	4	0	0	75	75	75	0	0	3.0	9/16	52.78		312.00	22.27
12-7-72	E-22	5	0	0	75	75	75	0	0	3.0	3/8	52.94		354.55	22.07
12-7-72	E-22	6	0	0	75	75	75	0	0	3.0	1/2	53.10		325.00	21.97
12-7-72	E-22	7	0	0	75	75	75	0	0	3.0	9/16	53.25		312.00	21.77
12-8-72	E-22	8	0	0	75	75	75	0	0	3.0	7/16	53.41		339.13	21.57
			0	0	600	600	600	0	0						
							Bent E-23								
12-12-72	E-23	1	0	0	71	71	71	0	0	3.0	1/2	49.26		325.00	21.71
12-12-72	E-23	2	0	0	71	71	71	0	0	3.0	9/16	49.40		312.00	21.61
12-12-72	E-23	3	0	0	71	71	71	0	0	3.0	7/16	49.53		339.13	21.41
12-12-72	E-23	4	0	0	71	71	71	0	0	3.0	9/16	49.66		312.00	21.31
12-12-72	E-23	5	0	0	71	71	71	0	0	3.0	9/16	49.79		312.00	21.21
			0	0	355	355	355	0	0						
			Total	Total	Total	Total	Total	Total	Total						

Correct _____ Approved _____
Resident Engineer Division Engineer

Show changes in plan on back of this sheet

STATE OF ALABAMA HIGHWAY DEPARTMENT
DRIVING RECORD OF STEEL PILING

County Mobile Division 5th Project I-10-1(34)27

Road between East Tunnel Interchange and East Bound Lane

Bridge: Station 107+22.42 to Station 136+00.00

Contractor Moss-Thornton Co. Inc. Sub-Contractor Gulf City Const. Co. Inspector Cauthen & Woodman

Bents numbered as per plans if shown, otherwise numbered from north on east end. Piles numbered from left to right.

Weight of (drop) 8775 (steam) hammer 16,250 Type Vulcan 016 Size of Piling 30" Sq Cone

Date	No. Bent	No. Pile	Pay Splices	Added Pile	Furn. Length	Ordered Length	Actual Length in Str.	Actual Length CutOff	Length Pay CutOff	Last 10 Blows		Total Penetration	Kind of Soil	Computed Bearing	CutOff to Ground
										Drop of Hammer	Penetr. 10 Blows				
							Bent E-24 & A-19								
12-12-72	E-24	1	0	0	67	67	67	0	0	3.0	9/16	45.94		312.00	21.0
12-12-72	E-24	2	0	0	67	67	67	0	0	3.0	9/16	46.08		312.00	20.9
12-12-72	E-24	3	0	0	67	67	67	0	0	3.0	1/2	46.22		325.00	20.7
12-12-72	E-24	4	0	0	67	67	67	0	0	3.0	1/2	46.36		325.00	20.6
12-12-72	E-24	5	0	0	67	67	67	0	0	3.0	9/16	46.50		312.00	20.5
12-19-72	E-24 A-19	6	0	0	67	67	67	0	0	3.0	7/16	46.92		339.13	20.0
12-19-72	E-24 A-19	7	0	0	67	67	67	0	0	3.0	9/16	47.43		312.00	19.5
12-19-72	E-24 A-19	8	0	0	67	67	67	0	0	3.0	9/16	47.95		312.00	19.0
			0	0	536	536	536	0	0						
							Bent E-25								
12-14-72	E-25	1	0	0	66	66	66	0	0	3.0	1/2	45.72		325.00	20.2
12-14-72	E-25	2	0	0	66	66	66	0	0	3.0	7/16	45.89		339.13	20.1
12-14-72	E-25	3	0	0	66	66	66	0	0	3.0	9/16	46.06		312.00	19.9
12-14-72	E-25	4	0	0	66	66	66	0	0	3.0	9/16	46.23		312.00	19.7
12-14-72	E-25	5	0	0	66	66	66	0	0	3.0	1/2	46.65		325.00	19.3
12-14-72	E-25	6	0	0	66	66	66	0	0	3.0	9/16	47.06		312.00	18.9
			0	0	396	396	396	0	0						
			Total	Total	Total	Total	Total	Total	Total						

Correct _____ Approved _____
Resident Engineer Division Engineer

Show changes in plan on back of this sheet

STATE OF ALABAMA HIGHWAY DEPARTMENT
DRIVING RECORD OF STEEL PILING

County Mobile Division 5th Project 1-10-1(34)27

Road between East Tunnel Interchange and East Bound Lane

Bridge: Station 107+22.42 to Station 136+00.00

Contractor Moss-Thornton Co. Inc. Sub-Contractor Gulf City Const Co. Inspector Cauthen & Woodham

Bents numbered as per plans if shown, otherwise numbered from north on east end. Piles numbered from left to right.

Weight of (drop) ^{A1E} ~~XXX~~ (steam) hammer 16,250 Type Vulcan 016 Size of Piling 30" Sq Cons

Date	No. Bent	No. Pile	Pay Splices	Added Pile	Furn. Length	Ordered Length	Actual Length in Str.	Actual Length CutOff	Length Pay CutOff	Last 10 Blows		Total Penetration	Kind of Soil	Com-puted Bearing	CutOff to Ground
										Drop of Hammer	Penetr. 10 Blows				
							Bent E-26								
1-25-73	E-26	1	0	0	66	66	66	0	0	3.0	9/16	46.48		312.00	19.54
1-25-73	E-26	2	0	0	66	66	66	0	0	3.0	9/16	46.69		312.00	19.30
1-25-73	E-26	3	0	0	66	66	66	0	0	3.0	1/2	46.90		325.00	19.11
1-25-73	E-26	4	0	0	66	66	66	0	0	3.0	7/16	47.10		339.13	18.94
1-25-73	E-26	5	0	0	66	66	66	0	0	3.0	1/2	47.31		325.00	18.69
1-25-73	E-26	6	0	0	66	66	66	0	0	3.0	9/16	47.52		312.00	18.41
			0	0	396	396	396	0	0						
							Bent E-27								
1-29-73	E-27	1	0	0	65	65	65	0	0	3.0	9/16	46.16		312.00	18.81
1-29-73	E-27	2	0	0	65	65	65	0	0	3.0	1/2	46.37		325.00	18.61
1-29-73	E-27	3	0	0	65	65	65	0	0	3.0	1/2	46.58		325.00	18.41
1-29-73	E-27	4	0	0	65	65	65	0	0	3.0	9/16	46.79		312.00	18.21
1-29-73	E-27	5	0	0	65	65	65	0	0	3.0	9/16	47.00		312.00	18.01
			0	0	325	325	325	0	0						
			Total	Total	Total	Total	Total	Total	Total						

Correct _____ Approved _____
Resident Engineer Division Engineer

Show changes in plan on back of this sheet

Weight of ~~(drop)~~ ^(steam) hammer 16,250 Type Vulcan 016 Size of Piling 30" Sq Conc.

Show changes in plan on back of this sheet

Weight of ~~(drop)~~ ^(steam) hammer 14,250 Type Vulcan 016 Size of Piling 30" sq Cone

Show changes in plan on back of this sheet

Weight of (drop) ⁴¹⁸ (steam) hammer 16,250 Type Vulcan 016 Size of Piling 30" sq. Cons.

Show changes in plan on back of this sheet

Weight of ~~(Air)~~ ^(Air) ~~(Steam)~~ hammer 16,250 Type Vulcan 016 Size of Piling 30" Sq Cons.

$$\begin{array}{r} 310 \\ 228 \\ \hline 82 \end{array}$$

Weight of ~~(drop)~~ ^(stream) hammer 16,250 Type Vulcan 016 Size of Piling 30" Sq Cons.

Show changes in plan on back of this sheet

Weight of (drop) (steam) hammer 16,250 Type Valveless C16 Size of Piling 30" Sq Conc.

Show changes in plan on back of this sheet

Weight of (drop) ⁴¹¹ (seam) hammer 16,250 Type Vulcan 016 Size of Piling 30" sq Conc

Show changes in plan on back of this sheet

Weight of ~~(drop)~~ ^(steam) hammer 16,250 Type Vulcan 016 Size of Piling 30" Sq Comp.

Show changes in plan on back of this sheet

Weight of (drop) ~~1475~~ ¹¹⁷ (steam) hammer 16,250 Type Vulcan 016 Size of Piling 30" Sq Cons.

neer

17 112.89
17 030.79
82.00

Weight of (drop) (steam) hammer 16,250 Type Vulcan C16 Size of Piling 30" sq. Conc.

Show changes in plan on back of this sheet

Weight of (drop) (steam) hammer 14,000 Type Vulcan Old Size of Piling 30" Sq Cone

Correct R. E. Jahn Resident Engineer

Approved [Signature] Division Engineer

Approved [Signature] Asst. Const. Engineer

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Show changes in plan on back of this sheet