

(BR-2-75) Pile Driving Log



Project No: 10-3000		County-Route-Section: CUY-90-14.90	
Bridge No: CUY-90-1651R		Criteria: 20 blows/inch for 2 consecutive inches with average stroke height of 11.5'	
SFN:			
Total Drive Length: <u>23' 5" 160' 5"</u>		Final Tip Elevation:	
Substructure Unit: <u>LT (RT)</u>		Date Driven: <u>6-17-11</u>	Pile Number: <u>2-24</u>
Pile Type: <u>H Pile HP 18x204</u>		Wall Thickness: <u>N/A</u>	Hammer: <u>D-80</u>
Required Ultimate Bearing:		Batter: <u>N/A</u>	Drop Hammer Ram Weight: <u>17,640</u>
Cutoff Elevation: <u>567.55</u>		Ground Elevation: <u>579.68</u>	No. of Splices: <u>2</u>

Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure
100			134	18		#		
101			135	18		1"	22	
102			136	20		2"	22	
103			137	21		3"	22	
104			138	21		4"	23	40sec
105			139	20		5"	32	54sec
106			140	22		6"		
107			141	20		7"	STOP	3:15 pm
108			142	21		8"		
109			143	20		9"		
110			144	21		10"		
111			145	21		11"		
112			146	23		#		
113			147	20		1"		
114			148	23		2"		
115			149	22		3"		
116			150	23		4"		
117			151	23		5"		
118			152	23		6"		
119			153	25		7"		
120		2:37 pm	154	28		8"		
121	17		155	33		9"		
122	17		156	39		10"		
123	17		157	35		11"		
124	15		158	43		#		
125	18		159	47		1"		
126	16		160	50		2"		
127	17		161			3"		
128	16		162			4"		
129	16		163			5"		
130	15		164			6"		
131	16		165			7"		
132	16		166			8"		
133	15		167			9"		

Effective Date: 2-14-2011
 Revised Date: 2-14-2011

[Signature]

(BR-2-75) Pile Driving Log



Project No: 10-3000	County-Route-Section: CUY-90-14.90
Bridge No: CUY-90-1651R	
SFN:	

DRIVE LENGTH 160' 6"

Substructure Unit: PIER 5 RT	Date Driven: 6-17-11	Pile Number: 2-25
Pile Type: H-PILE HP 18X204	Wall Thickness: N/A	Hammer: 080
Required Ultimate Bearing:	Batter: vertical N/A	Drop Hammer Ram Weight: 17,640
Cutoff Elevation: 567.58	Ground Elevation: 579.68	No. of Splices: 2

Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure
120			154	40	"	1"	20	
121		START 4:40 pm	155	49	"	2"	23	
122			156	52	"	3"	34	59
123	21		157	56	"	4"	32	
124	20		158	64	"	5"	36	56
125	19		159	72	"	6"	70	1 min Speed
126	21		160	110	"	7"		
127	20		161		"	8"		
128	19		162		"	9"		
129	19		163		"	10"		
130	18					11"		
131	19					12"		
132	19							
133	19							
134	22					STOP	5:15 pm	
135	22							
136	27							
137	26							
138	25							
139	25							
140	26							
141	25							
142	25							
143	25							
144	26							
145	26							
146	25							
147	24							
148	28							
149	29							
150	30							
151	34							
152	34							
153	39							

FINISH ELE. 160' 6"

Effective Date: 2-14-2011
 Revised Date: 2-14-2011

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(BR-2-75) Pile Driving Log



Project No: 10-3000		County-Route-Section: CUY-90-14.90	
Bridge No: CUY-90-1651R		Criteria: 20 blows/inch for 2 consecutive inches with average stroke height of 11.5'	
SFN:		Final Tip Elevation:	
Total Drive Length: 161'-7"			
Substructure Unit: Pile LT (RT)	Date Driven: 6-17-11	Pile Number: 2-27 2-26	
Pile Type: H Pile HP18x204	Wall Thickness: N/A	Hammer: D-80	
Required Ultimate Bearing:	Batter: N/A	Drop Hammer Ram Weight: 17,640	
Cutoff Elevation: 567.58	Ground Elevation: 579.68	No. of Splices: 2	

Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure
100			134	20		# 161	12	
101			135	20		1"	12	
102			136	21		2"	15	
103			137	23		3"	15	
104			138	23		4"	14	
105			139	24		5"	15	
106			140	23		6"	21	11.5' / 4.55sa
107			141	23		7"	20	11.5' / 34.5ca
108			142	24		8"	STOP	11:30 AM
109			143	23		9"		
110			144	22		10"		
111			145	24		11"		
112			146	23		#		
113			147	24		1"		
114			148	22		2"		
115			149	25		3"		
116			150	27		4"		
117			151	28		5"		
118			152	31		6"		
119			153	35		7"		
120			154	35		8"		
121			155	43		9"		
122	Start	10:55 AM	156	49		10"		
123	21		157	49		11"		
124	23		158	55		#		
125	22		159	57		1"		
126	21		160	65		2"		
127	20		161	87		3"		
128	19		162			4"		
129	20		163			5"		
130	21		164			6"		
131	19		165			7"		
132	19		166			8"		
133	20		167			9"		

Effective Date: 2-14-2011

Revised Date: 2-14-2011

X

(BR-2-75) Pile Driving Log



Project No: 10-3000		County-Route-Section: CUY-90-14.90	
Bridge No: CUY-90-1651R		Criteria: 20 blows/inch for 2 consecutive inches with average stroke height of 11.5'	
SFN:		Final Tip Elevation:	
Total Drive Length: 161'-3"			
Substructure Unit: Pier 5 LT (RT)	Date Driven: 6-16-11	Pile Number: 2-27	
Pile Type: HP-18x204	Wall Thickness: N/A	Hammer: D-80	
Required Ultimate Bearing:	Batter: N/A	Drop Hammer Ram Weight: 17,600	
Cutoff Elevation: 567.58	Ground Elevation: 579.68	No. of Splices: 2	

Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure
100			134	18		# 61		
101			135	23		1"	57	> 20 blows/inch
102			136	21		2"	68	> 20 blows/inch
103			137	23		3"	69	in 35' 2 sec
104			138	25		4"		
105			139	24		5"		
106			140	25		6"		
107			141	24		7"		
108			142	25		8"		
109			143	23		9"		
110			144	22		10"		
111			145	25		11"		
112			146	23		#		
113	23		147	26		1"		
114	25		148	27		2"		
115	24		149	27		3"		
116	23		150	26		4"		
117	21		151	25		5"		
118	22		152	28		6"		
119	22		153	26		7"		
120	21		154	28		8"		
121	20		155	34		9"		
122	19		156	39		10"		
123	18		157	40		11"		
124	19		158	45		#		
125	19		159	50		1"		
126	19		160	54		2"		
127	18		161	63		3"		
128	19		162			4"		
129	18		163			5"		
130	18		164			6"		
131	17		165			7"		
132	18		166			8"		
133	20		167			9"		

Effective Date: 2-14-2011

Revised Date: 2-14-2011

X [Signature]

Walsh Form 28

Complete

(BR-2-75) Pile Driving Log



Project No: 10-3000		County-Route-Section: CUY-90-14.90	
Bridge No: CUY-90-1651R		Criteria: 20 blows/inch for 2 consecutive inches with average stroke height of 11.5'	
SFN:			
Total Drive Length: 101'-2"		Final Tip Elevation:	
Substructure Unit: 5 LT/RT	Date Driven: 6-16-11/6-17-11	Pile Number: 2-28	
Pile Type: H Pile 18x204	Wall Thickness: N/A	Hammer: D-80	
Required Ultimate Bearing:	Batter: N/A	Drop Hammer Ram Weight: 17,640	
Cutoff Elevation: 567.58	Ground Elevation: 579.68	No. of Splices: 2	

Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure
100			134	28		# 161		
101			135	31		1"	20	11.5'
102			136	33		2"	20	11.5'
103			137	34		3"		
104			138	36		4"		
105			139	37		5"		
106			140	38		6"		
107			141	26		7"		
108			142	27		8"		
109			143	28		9"		
110			144	28		10"		
111			145	27		11"		
112			146	28		#		
113			147	31		1"		
114			148	28		2"		
115			149	31		3"		
116			150	33	stopped 6x11	4"		
117			151	33		5"		
118			152	31		6"		
119			153	33		7"		
120			154	28		8"		
121	33		155	41		9"		
122	16		156	51		10"		
123	15		157	51		11"		
124	16		158	58		#		
125	17		159	67		1"		
126	18		160	71		2"		
127	18		161	77		3"		
128	20		162			4"		
129	21		163			5"		
130	19		164			6"		
131	20		165			7"		
132	23		166			8"		
133	27		167			9"		

20/34
20/34

Effective Date: 2-14-2011

Revised Date: 2-14-2011

[Signature]

Walsh Form 28

Started @ 7:55 Am
Finished @ 8:15 Am

PG. 1

complete

(BR-2-75) Pile Driving Log



Project No: 10-3000		County-Route-Section: CUY-90-14.90	
Bridge No: CUY-90-1651R			
SFN:			
Total Drive Length: 163' 4"			
Substructure Unit: Pile 5 RT	Date Driven: 6-20-11	Pile Number: 2-29 TEST PILE	
Pile Type: HP 18 x 204	Wall Thickness: 1 1/2"	Hammer: D-80	
Required Ultimate Bearing: 2576 KIPS	Batter: ———	Drop Hammer Ram Weight: 17,246	
Cutoff Elevation: 567.68	Ground Elevation: 579.68	No. of Splices: 2 60' + 40' + 50'	

Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure
100			134	20		# 162		
101			135	22		1"		
102			136	21		2"		
103			137	24		3"		
104			138	23		4"		
105			139	24		5"		
106			140	27		6"		
107			141	24		7"		
108			142	24		8"		
109			143	22		9"	13	
110			144	23		10"	21	
111			145	25		11"	21	34.62
112			146	24		# 163	21	
113			147	25		1"	21	34.71
114			148	26		2"	25	
115	23	START TIME	149	24		3"	35	
116	22	4:00	150	26		4"	45 @ 1/2"	1500 KIPS 10.5' STROKE
117	22		151	24		5"		
118	20		152	27		6"		VISUALLY VERIFIED 10.5' STROKE
119	21		153	30		7"		
WELLS 120	20	WELL USUALLY COMPLETE	154	36		8"		GRL HAD 10.5' STROKE ON THEIR GAB
121	18		155	34		9"		
122	17		156	41		10"		
123	17		157	41		11"	4:40 END TIME	
124	16		158	49		#		
125	17		159	52		1"		
126	16		160	61		2"		
127	15		161	65		3"		
128	16		162	90 @ 9"		4"		
129	15		163			5"		
130	16		164			6"		
131	15		165			7"		
132	16		166			8"		
133	17		167			9"		

Effective Date: 2-14-2011

Revised Date: 2-14-2011

X *[Signature]*

COMPLETE

(BR-2-75) Pile Driving Log



Project No: 10-3000		County-Route-Section: CUY-90-14.90	
Bridge No: CUY-90-1651R			
SFN:			
Total Drive Length: 163'10"			
Substructure Unit: PIER 5 RT	Date Driven: 6-15-11	Pile Number: 2-30	
Pile Type: HP13X24	Wall Thickness: 1 1/8"	Hammer: D-80	
Required Ultimate Bearing: 2876 KIP	Batter: —	Drop Hammer Ram Weight: 17,640	
Cutoff Elevation: 567.58	Ground Elevation: 579.68	No. of Splices: 2	

Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure
100	22	START MISS	134	16		# 163		
101	22	THROTTLED BY	135	19		1"	10	
102	21		136	20		2"	12	
103	22		137	20		3"	15	
104	23		138	21		4"	20	
105	23		139	23		5"	20	
106	23		140	25		6"	19	
107	24		141	27		7"	20	
108	24		142	24		8"	20	33.22 SEC
109	24		143	24		9"	21	35.78 SEC
110	23	VISUALLY INSPECTED	144	25		10"	21	36.17 SEC
111	23		145	24		11"		
112	23		146	23		#		END TIME
113	24		147	26		1"		10:40
114	23		148	25		2"		USUALLY
115	20		149	25		3"		JUSTIFIED
116	18		150	27		4"		11.5' STROKE
117	19		151	32		5"		ADD BY
118	18		152	34		6"		BPM.
119	17		153	33		7"		
120	17		154	40		8"		
121	17		155	41		9"		
122	17		156	52		10"		
123	16		157	57		11"		
124	16		158	62		#		
125	18		159	72		1"		
126	15		160	84		2"		
127	17		161	86		3"		
128	14		162	91		4"		
129	16		163	117		5"		
130	15		164			6"		
131	15		165			7"		
132	16		166			8"		
133	16		167			-9"		

Effective Date: 2-14-2011

Revised Date: 2-14-2011

X *[Signature]*

Compton

(BR-2-75) Pile Driving Log



Project No: 10-3000		County-Route-Section: CUY-90-14.90	
Bridge No: CUY-90-1651R		Criteria: 20 blows/inch for 2 consecutive inches with average stroke height of 11.5'	
SFN:			
Total Drive Length: 163'-3"		Final Tip Elevation:	
Substructure Unit: 5 LT/RT	Date Driven: 6-16-11	Pile Number: 2-31	
Pile Type: H Pile 14x204	Wall Thickness: .	Hammer: D-80	
Required Ultimate Bearing:	Batter:	Drop Hammer Ram Weight: 17,140	
Cutoff Elevation: 567.58	Ground Elevation: 579.68	No. of Splices: 2	

Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure
100			134	22		# 162		
101			135	23		1"	8	
102			136	28		2"	8	
103			137	28		3"	23	
104			138	30		4"	15	
105			139	31		5"	22	
106			140	32		6"	24	
107			141	34		7"	38	
108			142	35		8"	39	
109			143	33		9"	41	
110			144	33		10"	45	
111			145	33		11"	45	
112			146	33		# 163	48	
113	23		147	33		1"	51	
114	23		148	32		2"	57.53	
115	23		149	32		(3")	20	35.2 sec
116	22		150	30		4"	8	
117	22		151	30		5"		
118	21		152	31		6"		
119	20		153	32		7"		
120	19		154	33		8"		
121	19		155	35		9"		
122	17		156	37		10"		
123	18		157	38		11"		
124	17		158	41		#		
125	17		159	48		1"		
126	18		160	48		2"		
127	20		161	52		3"		
128	17		162	50		4"		
129	16		163			5"		
130	17		164			6"		
131	17		165			7"		
132	18		166			8"		
133	21		167			9"		

Effective Date: 2-14-2011

Revised Date: 2-14-2011

[Signature]

(BR-2-75) Pile Driving Log



Project No: 10-3000		County-Route-Section: CUY-90-14.90	
Bridge No: CUY-90-1651R		Criteria: 20 blows/inch for 2 consecutive inches with average stroke height of 11.5'	
SFN:			
Total Drive Length: 163' 6"		Final Tip Elevation:	
Substructure Unit: <i>PER 5 LT/RT</i>	Date Driven: <i>6/16/11</i>	Pile Number: <i>2-32</i>	
Pile Type: <i>HP 18x204</i>	Wall Thickness: <i>N/A</i>	Hammer: <i>D-80</i>	
Required Ultimate Bearing: <i>2875.5 k</i>	Batter: <i>N/A</i>	Drop Hammer Ram Weight: <i>17600</i>	
Cutoff Elevation: <i>567.58</i>	Ground Elevation: <i>579.68</i>	No. of Splices: <i>2</i>	

Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure
100			134	22		# 162	8	
101			135	24		1"	8	
102			136	24		2"	8	
103			137	24		3"	8	
104			138	26		4"	8	
105			139	30		5"	10	
106			140	32		6"	12	
107			141	33		7"	12	
108			142	33		8"	13	
109			143	37		9"	16	
110			144	32		10"	17	
111			145	33		11"	15	
112	28		146	31		# 163	23	
113	27		147	32		1"	23	
114	25		148	30		2"	47	
115	25		149	32		3"	40+	
116	24		150	30		4"	50+	
117	25		151	29		5"	47	
118	23		152	27		6"	47	10.5' stroke
119	22		153	28		7"		
120	21		154	29		8"	20 Blows/24" @	32.7 sec
121	22		155	32		9"		
122	21		156	31		10"		
123	21		157	30		11"		
124	20		158	40		#		
125	19		159	46		1"		
126	18		160	56		2"		
127	18		161	52		3"		
128	17		162	64		4"		
129	16		163			5"		
130	18		164			6"		
131	17		165			7"		
132	20		166			8"		
133	21		167			9"		

Effective Date: 2-14-2011
 Revised Date: 2-14-2011

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(BR-2-75) Pile Driving Log



Project No: 10-3000	County-Route-Section: CUY-90-14.90	
Bridge No: CUY-90-1651R		
SFN:		
Total Drive Length: 164' 6"		
Substructure Unit: Pile 5 RT	Date Driven: 6-15-11	Pile Number: 2-34
Pile Type: HP 18X 20A	Wall Thickness: 1/4"	Hammer: D-80
Required Ultimate Bearing: 2876 kips	Batter: —	Drop Hammer Ram Weight: 17640
Cutoff Elevation: 567.58	Ground Elevation: 579.68	No. of Splices: 2

Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure
100		START 5:40	134	20		# 163		
101			135	22		1"	7	
102			136	22		2"	8	
103			137	22		3"	9	
104			138	23		4"	9	
105	22		139	23		5"	10	
106	23		140	25		6"	9	
107	26		141	24		7"	9	
108	24		142	26		8"	10	
109	24		143	26		9"	10	
110	23	REWORK 5:45	144	27		10"	13	
111	24		145	29		11"	19	
112	23		146	27		# 164	21	
113	24		147	27		1"	21	
114	23		148	26		2"	20	31.53
115	25		149	25		3"	20	30.93
116	24		150	25		4"	20	
117	25		151	29		5"	25	
118	21		152	29		6"	26	43.98 SECS
119	21		153	32		7"		REWORK
120	21		154	37		8"		REWORK
121	22		155	40		9"		REWORK
122	20		156	47		10"		REWORK
123	20		157	48		11"		REWORK
124	20		158	54		#		REWORK
125	19		159	57		1"		
126	20		160	68		2"		
127	18		161	64		3"		
128	18		162	81		4"		
129	19		163	90		5"		
130	18		164			6"		
131	19		165			7"		
132	20		166			8"		
133	20		167			9"		

Effective Date: 2-14-2011

Revised Date: 2-14-2011

X [Signature]

Complete