

# Pile Book

**Book Number** \_\_\_\_\_

**Contract Number** \_\_\_\_\_

**Contract Title** \_\_\_\_\_

**Structure** \_\_\_\_\_

## Instructions

### ***Instructions***

#### **Pile Driving History (Detail)**

The Pile driving detail shall summarize the details of the pile type, and information from the approved pile driving plan. The below list is not comprehensive, but indented to prompt the Inspector to document pertinent information for the specific pile construction.

#### **Pile Information (History)**

Material (concrete, steel, timber)

Concrete piles – shape, comprehensive strength

Steel piles – shape, wall thickness, diameter (inside/outside), open ended or closed

H-pile – dimensions

Timber piles – Butt diameter, tip diameter, tapered

Is there a tip or cutting shoe

Are the piles spliced - type of splice (weld, mechanical, full pen weld), is weld inspected/tested

#### **Pile Driving Equipment (History)**

Hammer Type – diesel, air stream, hydraulic, or vibratory

Diesel – single acting or double stroke, maximum stroke length, hammer weight

Lead set up – fixed, semi fixed, swinging

Helmet – type, weight

Follower or mandrel used - details

Cushion – on hammer, on pile, weight, thickness, material type, replacement date/condition

Vibratory – driving force, eccentric moment, frequency, hammer weight, clamp system used

Was template used for driving?

Was jetting/pre-drilling used?

Estimated overdrive.

#### **Pile Layout**

The pile layout page shall be used to detail the location of a specific pile in a specific pier as it is being constructed. The layout sheet should be used to supplement the pile driving log form and help record the chronology of the pile driving work. Reference to cofferdams, previously installed piling; obstructions are all examples of what should be included in the layout page. There should be a corresponding pile layout for each of the pile driving log forms completed.

#### **Pile Driving Log Form**

The pile driving log form is used to document the specific details of driving a specific pile. It is intended to capture any pertinent information that documents the bearing and elevation of a pile during the driving operation. A pile driving log shall be completed for each pile driven.

There shall be no more than one pile recorded per page – additional pages may be used if necessary to document a single pile.

The heading of the pile log shall be filled out completely for each pile. If jetting or drilling is used – record beginning and ending tip elevations of the operation and note any abnormal conditions in the comments column.

While driving is easy – record blows per interval. Once hard driving starts - begin recording blows per foot until the required bearing is attained.

Record start and stop times for each operation

Record stroke length, blows per minute, or chamber pressure

The remarks column shall be used to note any unusual conditions encountered such as – hit object, penetrated through hard strata, broke pile, pile misalignment, etc.





Contract	Pile No.	Pier No.
Structure	Date	
Location	Cut Off Elev.	
Hammer	Ground Elev.	
S/N	Final Tip Elev.	
Ram Wt.	Length in Lead	
Pile Type	Cut Off	
Inspector	Pay Length	

Depth	Time	Date	BPF	BPI	STK	BPM	C	Ult. Rest.	Tip Elev.

Table of Contents

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---



Condensed Pile Driving History

Contract	Pile No.	Pier No.				
Structure	Date					
Location	Cut Off Elev.					
Hammer	Ground Elev.					
S/N	Final Tip Elev.					
Ram Wt.	Length in Lead					
Pile Type	Cut Off					
Inspector	Pay Length					

Depth	Time	Date	BPF	BPI	STK	BPM	C	Ult. Rest.	Tip Elev.





# Condensed Pile Driving History

Contract			Pile No.				Pier No.			
Structure			Date							
Location			Cut Off Elev.							
Hammer			Ground Elev.							
S/N			Final Tip Elev.							
Ram Wt.			Length in Lead							
Pile Type			Cut Off							
Inspector			Pay Length							

Depth	Time	Date	BPF	BPI	STK	BPM	C	Ult. Rest.	Tip Elev.

Condensed Pile Driving History

Notes

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

Condensed Pile Driving History

Contract			Pile No.		Pier No.	
Structure			Date			
Location			Cut Off Elev.			
Hammer			Ground Elev.			
S/N			Final Tip Elev.			
Ram Wt.			Length in Lead			
Pile Type			Cut Off			
Inspector			Pay Length			

Depth	Time	Date	BPF	BPI	STK	BPM	C	Ult. Rest.	Tip Elev.

