

Minnesota Department of Transportation - Bridge Office



TEST PILE REPORT

(English)



SEE INSTRUCTIONS ON OTHER SIDE

PILE HAMMER DATA		PILE DATA		PROJECT DESCRIPTION	
<input type="checkbox"/> DROP (Gravity) <input type="checkbox"/> SINGLE ACTING (Power) <input type="checkbox"/> DOUBLE ACTING (Power)		Test Pile No: 1 2 3 4 5 6 or _____ <input type="checkbox"/> CIP <input type="checkbox"/> H-Pile <input type="checkbox"/> _____ Size: _____		Bridge No.: _____ S.P. (or S.A.P.) No.: _____ County: _____ Dist. _____	
Make and Model: _____		Length in Leads (ft.): _____		SUBSTRUCTURE <input type="checkbox"/> Abutment N S E W <input type="checkbox"/> Pier No. 1 2 3 4 or _____	
Weight of Ram (piston) _____ (lbs.)		Weight of Pile (lbs.): _____			
Max. Rated Energy _____ (ft. lbs.)		Weight of Cap (lbs.): _____			
		Cut-off Elev. (ft.): _____			

INSP. BY: _____	INSP. PHONE No: _____	CONTRACTOR: _____
-----------------	-----------------------	-------------------

DISTANCE BELOW CUT-OFF (feet)	DROP OF HAMMER OR RAM (feet)	ENERGY PER BLOW (ft. lbs.)	BLOWS		PENET. PER BLOW (inches)	BEARING IN TONS	DISTANCE BELOW CUT-OFF (feet)	DROP OF HAMMER OR RAM (feet)	ENERGY PER BLOW (ft. lbs.)	BLOWS		PENET. PER BLOW (inches)	BEARING IN TONS
PER MIN.	PER FOOT	PER MIN.	PER FOOT	PER MIN.	PER FOOT	PER MIN.	PER FOOT	PER MIN.	PER FOOT	PER MIN.	PER FOOT	PER MIN.	PER FOOT
5							7						
6							8						
7							9						
8							0						
9							1						
0							2						
1							3						
2							4						
3							5						
4							6						
5							7						
6							8						
7							9						
8							0						
9							1						
0							2						
1							3						
2							4						
3							5						
4							6						
5							7						
6							8						
7							9						
8							0						
9							1						
0							2						
1							3						
2							4						
3							5						
4							6						
5							7						
6							8						
7							9						
8							0						
9							1						
0							2						
1							3						
2							4						
3							5						
4							6						
5							7						
6							8						

DATE: _____		REMARKS ON DRIVING CONDITIONS, PRE-BORING, ETC. (IDENTIFY BY PENET. DISTANCE.)		
START DRIVING TIME: _____				
END DRIVING TIME: _____				
DOWN TIME: _____				
TOTAL DRIVING TIME: _____				
FORMULA USED <input type="checkbox"/> ASD <input type="checkbox"/> LRFD		DESIGN BEARING * (tons)	SCOUR EL.	AUTHORIZED PILE LENGTHS
INSPECTOR SIGNATURE _____		PROJECT ENGINEER SIGNATURE _____		BRIDGE OFFICE (Initial and Date) _____

* INDICATE THE "DESIGN LOAD" FOR ASD, INDICATE "R_n" (Mn/DOT Formula) FOR LRFD.

INSTRUCTIONS FOR COMPLETING TEST PILE REPORT

Pile Data:

1. Check type of pile as C.I.P., H-Pile, Treated Timber, Untreated Timber, Precast Concrete, etc.
2. Show **Size** of pile; when using timber pile show butt and tip size to the nearest one-half inch. Be certain that diameters comply with the specifications. Butt diameters should be measured 3 feet from the butt end.
3. **Length in Leads** should be total length in leads in feet.
4. Show **Weight of Pile** and **Weight of Cap** to nearest ten pounds.
5. **INSP. BY** should be the pile driving inspector (print or type name).

Column Tabulation:

6. **ENERGY PER BLOW (ft. lbs.)** is equal to WH, for single power-driven hammers. When field determination of energy output is not practical, 75% of the manufacturer's maximum rated energy may be used for computations (see Spec. 2452.3E2).
7. **BLOWS PER MIN.** need not be shown for drop hammers.
8. **PENET. PER BLOW (inches)** may be based on blows per foot or on a measured penetration for a given number of blows, and should be calculated in inches and decimals of inches.
9. **BEARING IN TONS** should be shown to the nearest ton or one-tenth of a ton.

SHOW SKETCH BELOW

Show sketch indicating location of test pile. Show North arrow.

DISTRIBUTION:

State Projects:

Original: Bridge Const. & Maint. Engineer (MS 610)

County or Municipal Projects:

Original: County or Municipal Engineer

Copy: Mn/DOT Bridge Const. & Maint. Engineer (MS 610)

FOR ALL PROJECTS:

Copy: Project Engineer

Copy: Railroad