



Minnesota Department of Transportation - Bridge Office

**PILE DRIVING REPORT
(MPF12)**



SEE INSTRUCTIONS ON BACK SIDE

PILE HAMMER DATA		Use with MPF12 $R_n = 20 \times \sqrt{\frac{W \times H}{1000}} \times \log\left(\frac{10}{S}\right)$	PROJECT DESCRIPTION	
TYPE: SINGLE ACTING (Power)	MAKE:		BRIDGE NO.:	LOCATION:
MODEL:	WT. OF RAM (PISTON): (lbs.)	PILE TYPE: SELECT A PILE TYPE	COUNTY: SELECT A COUNTY	DIST.: SELECT A DISTRICT
MAX. RATED ENERGY: (ft. lbs.)	CUT-OFF ELEV.:	SIZE: SELECT A SIZE	S.P. (OR S.A.P.) NO.:	
	CONTRACTOR:	WALL THICKNESS:	SUBSTRUCTURE	
			ABUTMENT:	N/A
			PIER NO.:	N/A

1	2	3	4	5	6	7	8	9	10	11	12
DATE DRIVEN	PILE NO.	FINAL LENGTH IN LEADS (feet)	FINAL CUT-OFF LENGTH (feet)	DISTANCE BELOW CUT-OFF (feet)	HEIGHT OF FALL OF RAM (feet)	FINAL ENERGY PER BLOW (ft. lbs.)	PENET. OF LAST 10 BLOWS (inches)	NOMINAL BEARING (tons)	AUTH. SPLICE	HEAT NUMBER(S)	REMARK/REDRIVE
Totals:				0					0	0	

13. OTHER REMARKS (IDENTIFY BY PILE NO.)

SUMMARY			PAY QUANTITIES	
PLAN NUMBER AND LENGTHS	SETUP INCREASE (%)		PILING DRIVEN (L.F.)	NO. OF REDRIVES
TEST PILE(S) LENGTH AND BEARING			NO. OF PILE TIP PROTECTION	NO. OF SPLICES
14. AVERAGE DRIVEN LENGTH (L.F.)			NO. OF TEST PILE(S)	NO. OF TEST PILE SPLICE(S)
MPF12 R _n (tons)	PDA R _n (tons)	14. AVERAGE BEARING (tons)	OTHER	NO. OF PDA's
INSPECTOR SIGNATURE		PROJECT ENGINEER SIGNATURE		DATE:
				SHEET OF

INSTRUCTIONS FOR COMPLETING PILE DRIVING REPORT

General:

Fill in all shaded fields. The sheet has formulas that will automatically fill-in calculated areas.
Field measurements to be to the nearest 0.1 ft.

Pile Data:

(Numbers correspond with numbers on front of form)

1. **DATE DRIVEN:** Use date on which driving was completed for each pile.
2. **PILE NO.:** Show number assigned to each pile (usually the same as the driving sequence).
3. **FINAL LENGTH IN LEADS (feet):** Use the actual total length in leads used for final driving of the pile.
4. **FINAL CUT-OFF LENGTH (feet):** Actual cut-off for each pile.
5. **DISTANCE BELOW CUT-OFF (feet):** Actual length driven below cut-off.
6. **HEIGHT OF FALL OF RAM (feet):** Actual drop of ram or piston.
7. **FINAL ENERGY PER BLOW (ft. lbs.):** Energy developed during final blows for computing final bearing. For single acting power-driven hammers, the energy per blow is equal to WH.
8. **PENETRATION OF LAST 10 BLOWS (inches):** Calculate to three significant digits (1.25, 0.625 etc.) based on the last ten blows for power-driven hammers.
9. **NOMINAL BEARING (tons):** Show to the nearest ton.
10. **AUTHORIZED SPLICE:** Number of splices eligible for payment. (see Spec. 2452)
11. **HEAT NUMBER(S):** Heat Number identifying each pile below cut-off.
12. **REMARK:** Indicate depth of jetting or preboring and diameter of auger used, hit obstruction, butt splitting, sequence of lengths used to make up actual total length in leads, butt and tip diameters for timber piles, setup percent increase, etc.
REDRIVE: Use date on which re-driving was completed. Show bearing after redrive to the nearest ton.
13. **OTHER REMARKS:** To be used for other pertinent information.
14. **AVERAGE DRIVEN LENGTH AND BEARING:** Do not include test piles.

SHOW SKETCH BELOW

Show sketch indicating location of test pile. Show North arrow. Indicate test piles with prefix "T".
Indicate direction of batter with arrows and note amount of batter.

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