	(See Appendix F for Wave Equation Examp	le
FORM F	FEDERAL HIGHWAY Western Federal Land 610 E. 5 th St. Vancour		Date Stamp
(a)	Project Name:		Copy Stamp
	Project Number:		
(b)	Item Number:	55101	
	Item Description:	Driven Piles, steel H pile, in place, 310mm x 110mm	
(C)	Date work performed:		

Daily Record Of Miscellaneous Items

Abutment No. 2 = 152.4m

(g) Supporting sketch and details*:

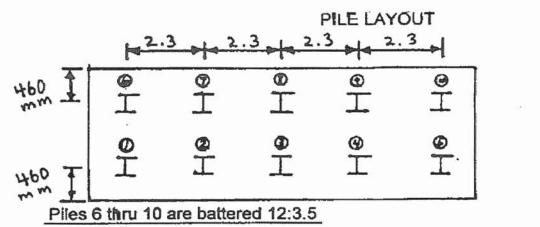
see attached pile layout and pile driving record

Summary of Quantities

(d) Location:		(e) Measured quantity:
8+143.037		152.4m
*Attach additional sheets if necessary.	Total Quantity:	152.4
	Unit of Measurement:	m

(h) Name of person	measuring work:
--------------------	-----------------

	FH	WA Use Only
(i) 🔳 Interim Measurement 🔲 Final Measurement	Verified By:	
I certify the above measurements and calculations are correct and the total quantity is subject to	Construction Inspector	
direct payment for the item identified.	Approved	Entered To Record
		Checked By:
(j) Contractor Representative	FHWA Representative	Date:



8+143.037

C/L ABUT

Pile Driving Record

1/10/1998 Bolder Creek Bridge Abutment #2 Pile Type: HP 250 x 85 Hammer Name/Model: Delmag D8-22

Hammer Energy	y: 23.87 kN-m
Req'D Bearing:	440 kN

	Length in	Cut Off	Cut Off	Tip Elev.
Pile No.	Leads (m)	Length (m)	Elev. (m)	(m)
1	7.62	0.229	238.658	225.552
	7.62	1.905	238.658	
2	15.24	3.100	238.658	226.518
3	15.24	3.200	238.658	226.619
4	15.24	2.819	238.658	226.238
5	15.24	2.234	238.658	225.653
6	7.62	0.305	238.658	225.857
	7.62	1.600	238.658	
7	15.24	2.643	238.658	226.564
8	15.24	2.691	238.658	226.613
9	15.24	2.286	238.658	226.223
10	15.24	1.829	238.658	225.784
	152.4	24.841		

0.1.00

	Ground Elev	Blows per		55101 (m)	55106	
Pile No.	(m)	25mm			(ea)	
1	238.354	9	6	13.11		1
	238.354					
2	238.354		7	12.14		
3	238.354		7	12.04		
4	238.354		6	12.42		
5	238.354		6	13.01		
6	238.354		6	12.8		1
	238.354					
7	238.354		7	12.09		
8	238.354		7	12.05		
9	238.354		8	12.44		
10	238.354		6	12.87		
				125.0		2

WDFD-472 3/83U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION VANCOUVER, WASHINGTON3/83U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION NANCOUVER, WASHINGTON3/83Nancouver, WASHINGTON3/83Nancouver, WASHINGTONAnsc. construction NOTES $N = (1320+550)$ 1 $(1320+550)$ 1 $(1320+550)$ 1 $(1320+550)$ 1 $(1320+550)$ 1 $(1320+550)$ 1 $(1320+550)$ 1 $(1320+550)$ 1 $(1320+550)$	NOTES: 1) Hammers seldom operate at the maximum manufacturer's rated energy. Hammer energy values should be based rated energy. Hammer energy values should be based rated energy. Hammer energy values should be based rated energy values should be based rated energy. Use dynamic formula (FP96 Subsection 551.06(b) to determine ultimate capacity (blow per mm) unless the wave equation is used, WFLHD Geotech Branch will franch will frumish the amount of blows required to obtain pile capacity. DATE: DATE: DATE:
DATE: LINE: PARTY: PROJECT: ITEM - 55101 PROJECT: Steal H-Piles PROJECT: Steal H-Piles PROJECT: Steal H-Piles PROJECT: Steal H-Piles STAMP In Place CAPACITY COMPUTATIONS In Place CALCULATE ULTIMATE PILE CAPACITY (RU): CALCULATE ULTIMATE PILE CAPACITY (RU): CALCULATE ULTIMATE PILE CAPACITY (RU): CALCULATE ULTIMATE PILE CAPACITY (RU): RU = 440 kN REQUIRED BEARING × FACTOR OF SAFETY (3) = 1320 kN FACTOR OF SAFETY (3) = 1320 kN FACTOR OF SAFETY (3) = 1320 kN FROM TABLE 551-1: 1320 kN => 21 kJ ROUIRED CHECK PROPOSED HAMMER ENERGY (kJ) = kN·m) DELMAG D8-22 MAX. ENERGY RATING = 23.87 kN·m	DYNAMIC FORMULA:DYNAMIC FORMULA:RU= 7./E log (10N)- 550RU= 7./E log (10N)-550RU= ULTIMATE PILE CAPACITY (kN) = 1320 kNE= MANUFACTURER'S RATED HAMMER ENERGYIN JOULES AT THE FIELD OBSERVED RAMSTROKE = 23870 JOULES (AT MAX, ENERGY)N= NUMBERS OF HAMMER BLOWS PER 25mm ATFINAL PENETRATIONSOLVING FOR N:WHERE N=10*Therefore X = $\left(\frac{RU+550}{7\sqrt{E}}\right) \cdot 1$

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	FEDERAL HIGHWAY Western Federal Land		ΓΙΟΝ	Date Stamp
	(a) Project Name:			Copy Stamp
	Project Number:			oopy ottamp
	(b) Item Number:	55201		
	Item Description:	Structural Concret	e	
	(c) Date work performed:			
-	Daily Record Of Miscellane	ous Items		
	(f) Calculations*: For Estimate #1: Pier cap, abutment 1 = Pier cap, abutment 2 =	= 4.27 x 11.4 x 0		
<	per contract quantity	>		
	(g) Supporting sketch and detail			
L	Summary of Quantities			
	(d) Location:			(e) Measured quantity:
		abutment 1 @ 8	3+357	42.84m3
		abutment 2 @ 8	3+453	42.84m3
			7.110	
	*Attach additional sheets if necessa	ary.	Total Quantity: Unit of Measurement:	85.7 m3
	(h) Name of person measuring	work:	Unit of Medsurement.	1115
			FHWA Use	e Only
	(i) 🔳 Interim Measurement 🗌	Final Measurement	Verified By:	
	I certify the above measuremen are correct and the total quantity direct payment for the item iden	y is subject to	Construction Inspector Approved	Entered To Record
				Chocked By:
-	(j) Contractor Representative		FHWA Representative	Checked By: Date:
	v/ contractor reprocontativo			D 0.00

DATE: PROJECT:	LINE:	PARTY:	Item 55201	
	STAMP		Structural C	oncrete
Estimate No.	1			
Pier Cap Abu	t. No. 1			
	4.27 x 11.4 x .88	=	42.84	m3
Pier Cap Abu	t. No. 2	N 23		
	Same as Pier Ca	ip Abut. No. 1	42.84	m3
Total Item 55	201 Est. No. 1		85.68	m3
1.	/		1	
		· .		
				4.2
		87 BB	2	1
		I ,		-/* ·
K		0.88		J
	(Docume	ntation for Pro	gress Est.)	

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