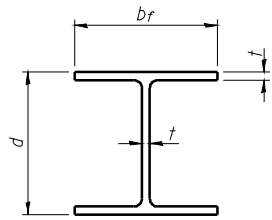
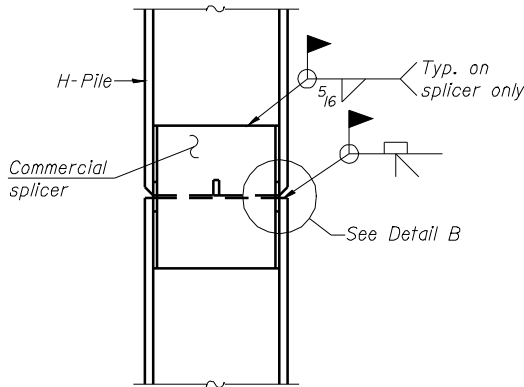


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

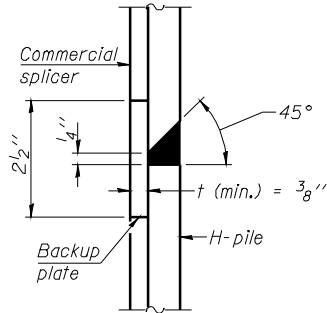


STEEL PILE TABLE

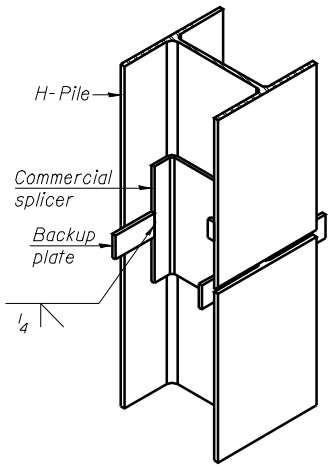
Designation	Depth d	Flange width b _f	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 ¹ / ₄ "	14 ⁷ / ₈ "	1 ³ / ₁₆ "	30"
x102	14"	14 ³ / ₄ "	1 ¹ / ₁₆ "	30"
x89	13 ⁷ / ₈ "	14 ³ / ₄ "	5 ₈ "	30"
x73	13 ⁵ / ₈ "	14 ⁵ / ₈ "	1 ₂ "	30"
HP 12x84	12 ¹ / ₄ "	12 ¹ / ₄ "	1 ¹ / ₁₆ "	24"
x74	12 ¹ / ₈ "	12 ¹ / ₄ "	5 ₈ "	24"
x63	12"	12 ¹ / ₈ "	1 ₂ "	24"
x53	11 ³ / ₄ "	12"	7 ₁₆ "	24"
HP 10x57	10"	10 ¹ / ₄ "	9 ₁₆ "	24"
x42	9 ³ / ₄ "	10 ¹ / ₈ "	7 ₁₆ "	24"
HP 8x36	8"	8 ¹ / ₈ "	7 ₁₆ "	18"



ELEVATION

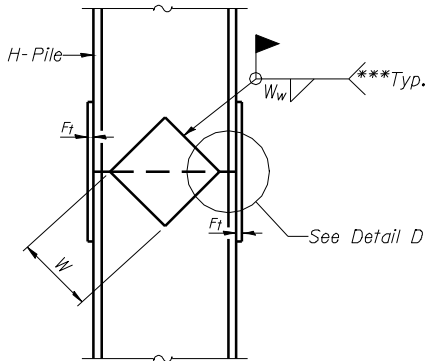


DETAIL "B"

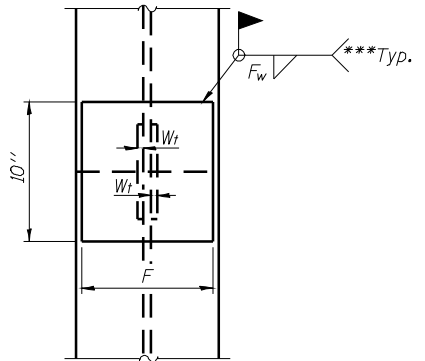


ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



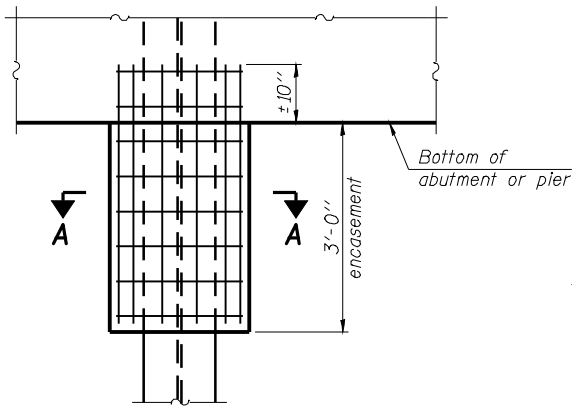
ELEVATION



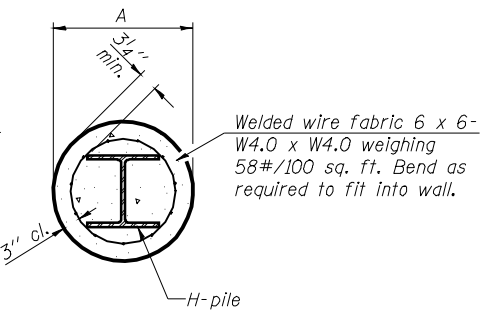
END VIEW

Designation	F	F _t	F _w	W	W _t	W _w
HP 14x117	12 ¹ / ₂ "	1"	7 ₈ "	7 ³ / ₄ "	5 ₈ "	1 ₂ "
x102	12 ¹ / ₂ "	7 ₈ "	3 ₄ "	7 ³ / ₄ "	5 ₈ "	1 ₂ "
x89	12 ¹ / ₂ "	3 ₄ "	1 ¹ / ₁₆ "	7 ³ / ₄ "	5 ₈ "	1 ₂ "
x73	12 ¹ / ₂ "	5 ₈ "	9 ₁₆ "	7 ³ / ₄ "	5 ₈ "	1 ₂ "
HP 12x84	10"	7 ₈ "	1 ¹ / ₁₆ "	6 ¹ / ₂ "	5 ₈ "	1 ₂ "
x74	10"	7 ₈ "	1 ¹ / ₁₆ "	6 ¹ / ₂ "	5 ₈ "	1 ₂ "
x63	10"	5 ₈ "	1 ₂ "	6 ¹ / ₂ "	1 ₂ "	3 ₈ "
x53	10"	5 ₈ "	1 ₂ "	6 ¹ / ₂ "	1 ₂ "	3 ₈ "
HP 10x57	8"	3 ₄ "	9 ₁₆ "	5 ¹ / ₄ "	1 ₂ "	3 ₈ "
x42	8"	5 ₈ "	9 ₁₆ "	5 ¹ / ₄ "	1 ₂ "	3 ₈ "
HP 8x36	7"	5 ₈ "	7 ₁₆ "	4 ¹ / ₄ "	1 ₂ "	3 ₈ "

WELDED PLATE FIELD SPLICE



ELEVATION



SECTION A-A

Note:
Forms for encasement may be omitted
when soil conditions permit.

PILE ENCASEMENT

Note:
The steel H-piles shall be according to
AASHTO M270 Grade 50.

PROFESSIONAL DESIGN FIRM LICENSE #184-001084



JOB NO. 07S2026	SHEET NO. 25
DATE 03/27/09	29 SHEETS

F.A. RTE. 614	SECTION 144(B-1, B-2)	COUNTY Mason	TOTAL SHEETS 351	SHEET NO. 132
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

HP PILE DETAILS
F.A.P. 614 (IL 78) OVER WOLF LAKE
(PUBLIC BODY OF WATER)
SECTION 144 (B-2)
MASON COUNTY
STA. 862+41.25
STRUCTURE NUMBER 063-0500

* Use joint conforming to Figure 3.4 in AWS D1.1, Structure Welding Code - Steel.
** Preparation per Fig. 5.2 in AWS D1.1, Structure Welding Code - Steel.
*** Interrupt welds 1/4" from end of each pile.

F-HP

10-1-08

11/13/08
12/15/08
12/19/08
LAYOUT
DRAWN
REVIEWED
MHW
Rcd
TEH
Mar 31 2009 07:58:09M
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