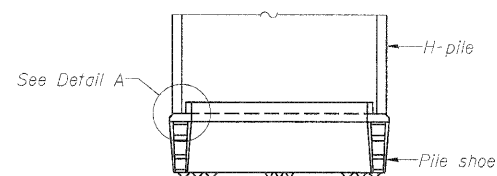
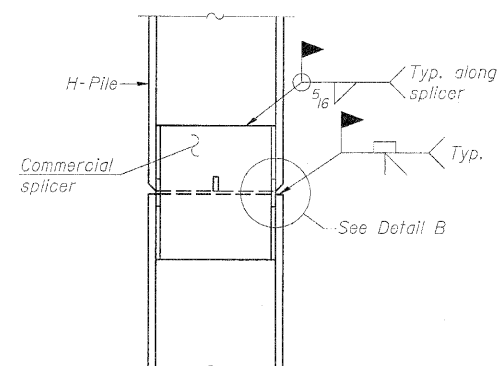


Designation	Depth d	Flange width b_f	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 $\frac{1}{4}$ "	14 $\frac{7}{8}$ "	1 $\frac{3}{16}$ "	30"
x102	14"	14 $\frac{3}{4}$ "	1 $\frac{1}{16}$ "	30"
x89	13 $\frac{7}{8}$ "	14 $\frac{3}{4}$ "	5 $\frac{1}{8}$ "	30"
x73	13 $\frac{5}{8}$ "	14 $\frac{5}{8}$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



H-PILE SHOE ATTACHMENT



Commercial splice

$2\frac{1}{2}''$

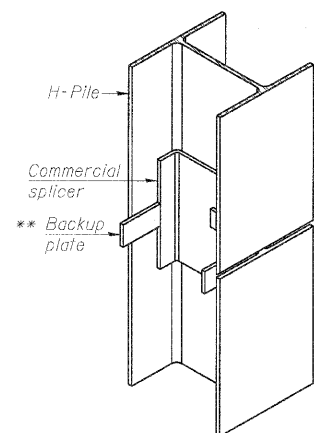
45°

$f \text{ (min.)} = \frac{3}{8}''$

Backup plate

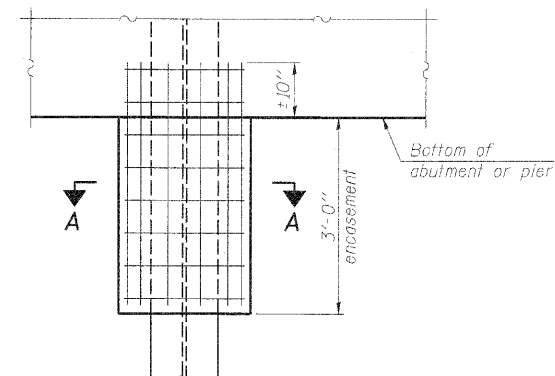
H-pile

WELDED COMMERCIAL SPLICE



WELDED COMMERCIAL SPLICE ALTERNATE

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



PILE ENCASEMENT

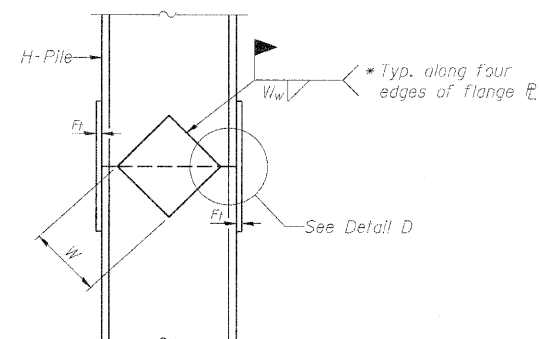
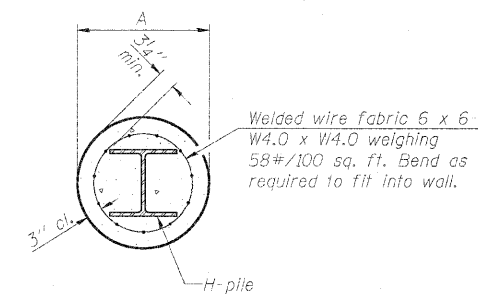
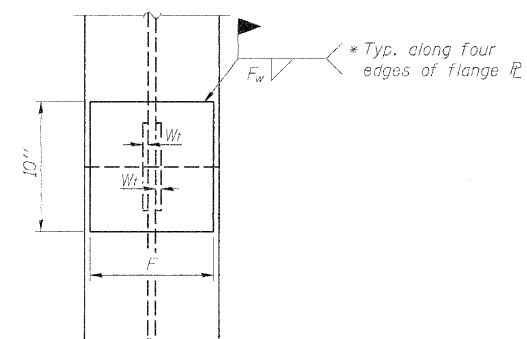


Diagram illustrating a butt joint with a splice plate. The splice plate thickness is labeled F .

WELDED PLATE FIELD SPLICE



SECTION A-A



END VIEW

Designation	F	F _t	F _w	W	W _t	W _w
HP 14x117	12 1/2"	1"	7 8/16"	7 3/4"	5 8/16"	1 2/16"
x102	12 1/2"	7 8/16"	3 4/16"	7 3/4"	5 8/16"	1 2/16"
x89	12 1/2"	3 4/16"	11 6/16"	7 3/4"	5 8/16"	1 2/16"
x73	12 1/2"	5 8/16"	3 16/16"	7 3/4"	5 8/16"	1 2/16"
HP 12x84	10"	7 8/16"	11 6/16"	6 1/2"	5 8/16"	1 2/16"
x74	10"	7 8/16"	11 6/16"	6 1/2"	5 8/16"	1 2/16"
x53	10"	5 8/16"	1 2/16"	6 1/2"	1 2/16"	3 8/16"
x53	10"	5 8/16"	1 2/16"	6 1/2"	1 2/16"	3 8/16"
HP 10x57	8"	3 4/16"	9 6/16"	5 1/4"	1 2/16"	3 8/16"
x42	8"	5 8/16"	9 6/16"	5 1/4"	1 2/16"	3 8/16"
HP 8x36	7"	5 8/16"	7 6/16"	4 1/2"	1 2/16"	3 8/16"

STRUCTURE NUMBERS 081-0026 (E.B.) & 081-0027 (W.B.)

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STRUCTURE NUMBERS 081-0026 (E.B.) & 081-0027 (W.B.)

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JOB NO.
05R1532A

SHEET NO.35

DATE
05/21/10

40 SHEETS

F.A.
RTE.

SECTION

COUNTY

TOTAL
SHEETS

SHEET
NO.

280

81-1(B-1)R

Rock Island

503

448

CONTRACT NO. 64815

ILLINOIS FED. AID PROJECT