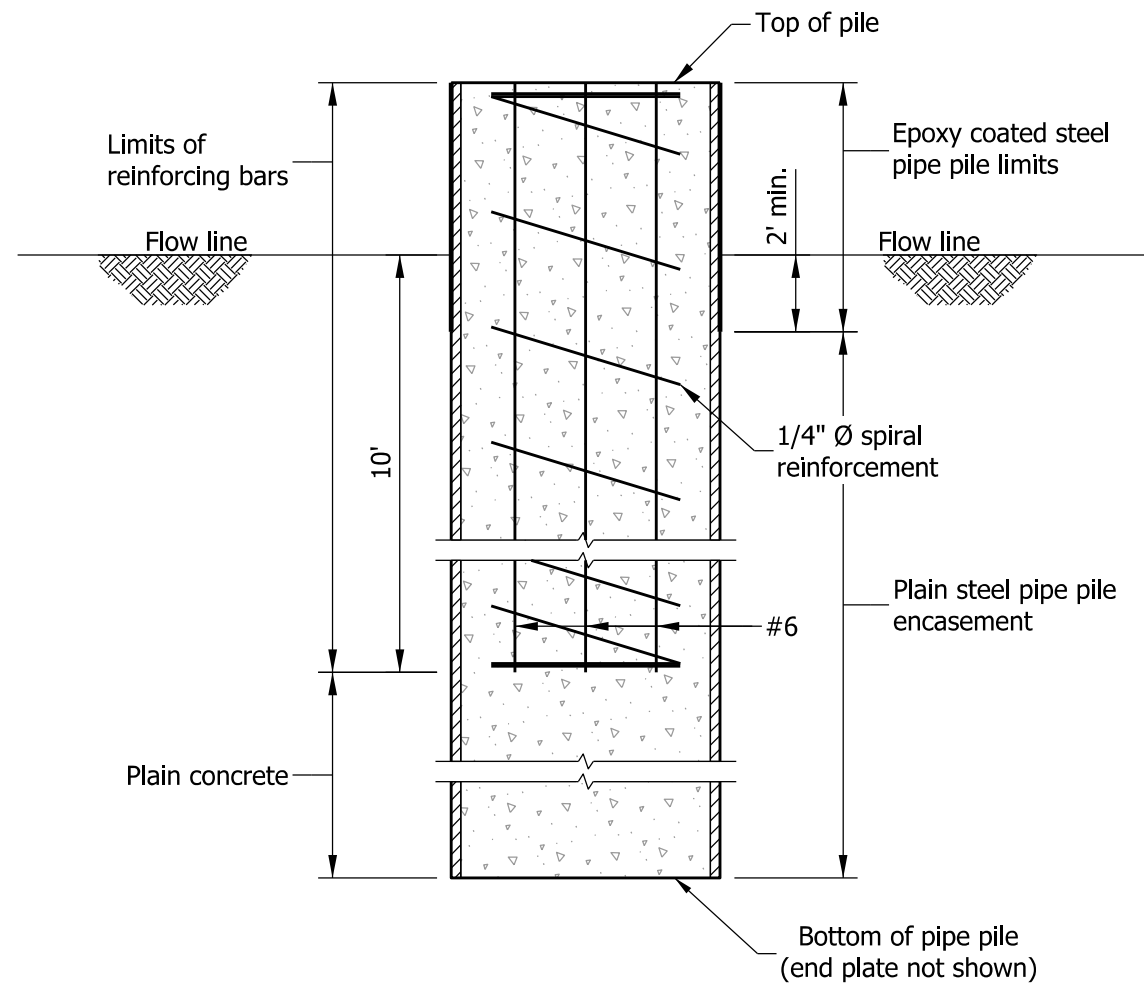
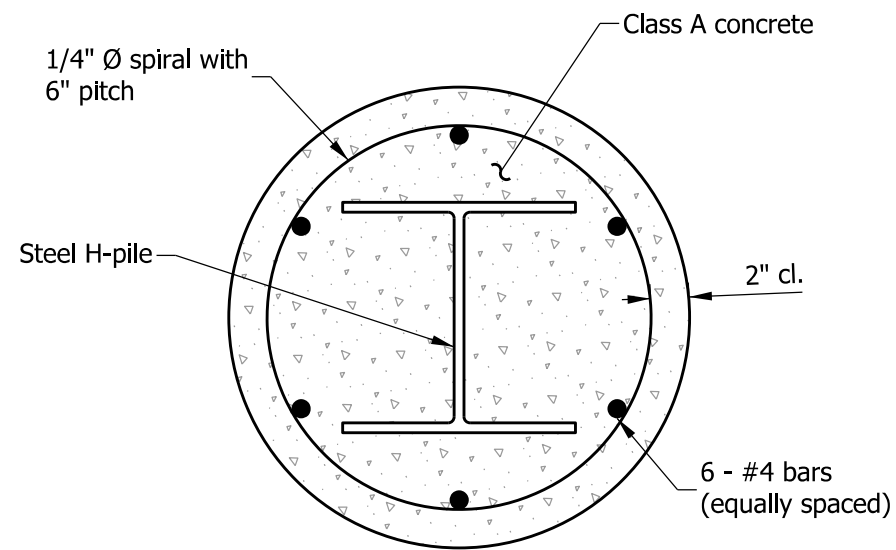


**REINFORCED-CONCRETE FILLED EPOXY-COATED  
STEEL PIPE PILE ENCASEMENT PLAN VIEW**



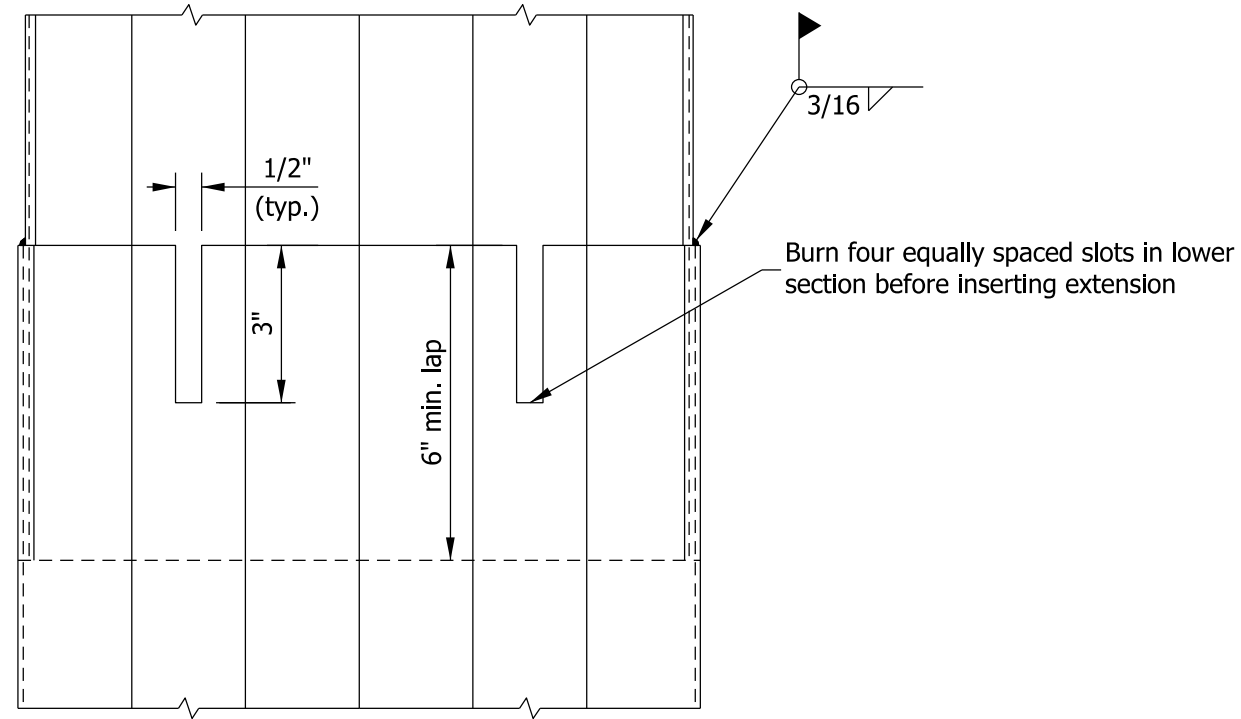
**SECTION A-A**



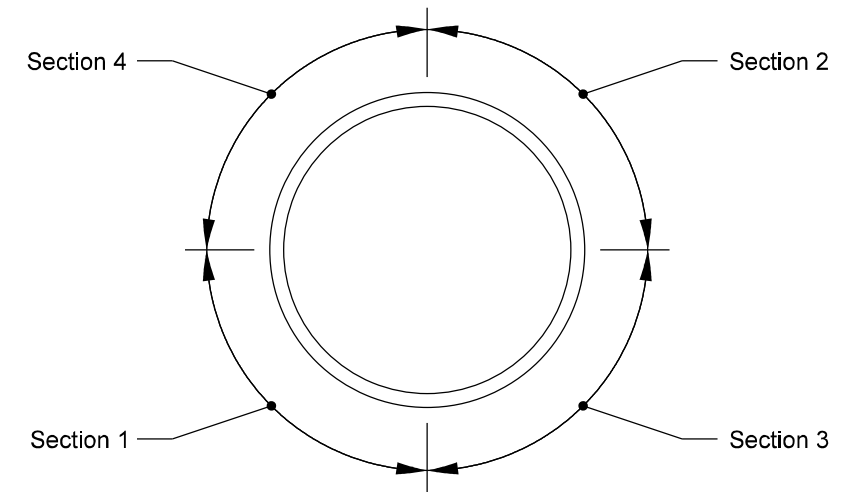
**STEEL H - PILES  
REINFORCED-CONCRETE ENCASEMENT PLAN VIEW**

TABLE OF MATERIALS			
Steel H-Pile designation	Minimum pile diameter	Reinforcing bars, lb/ft	Class A concrete, yd <sup>3</sup> /ft
HP 14	2'-3"	5.8	0.12
HP 12	2'-0"	5.6	0.10
HP 10	1'-9"	5.4	0.08

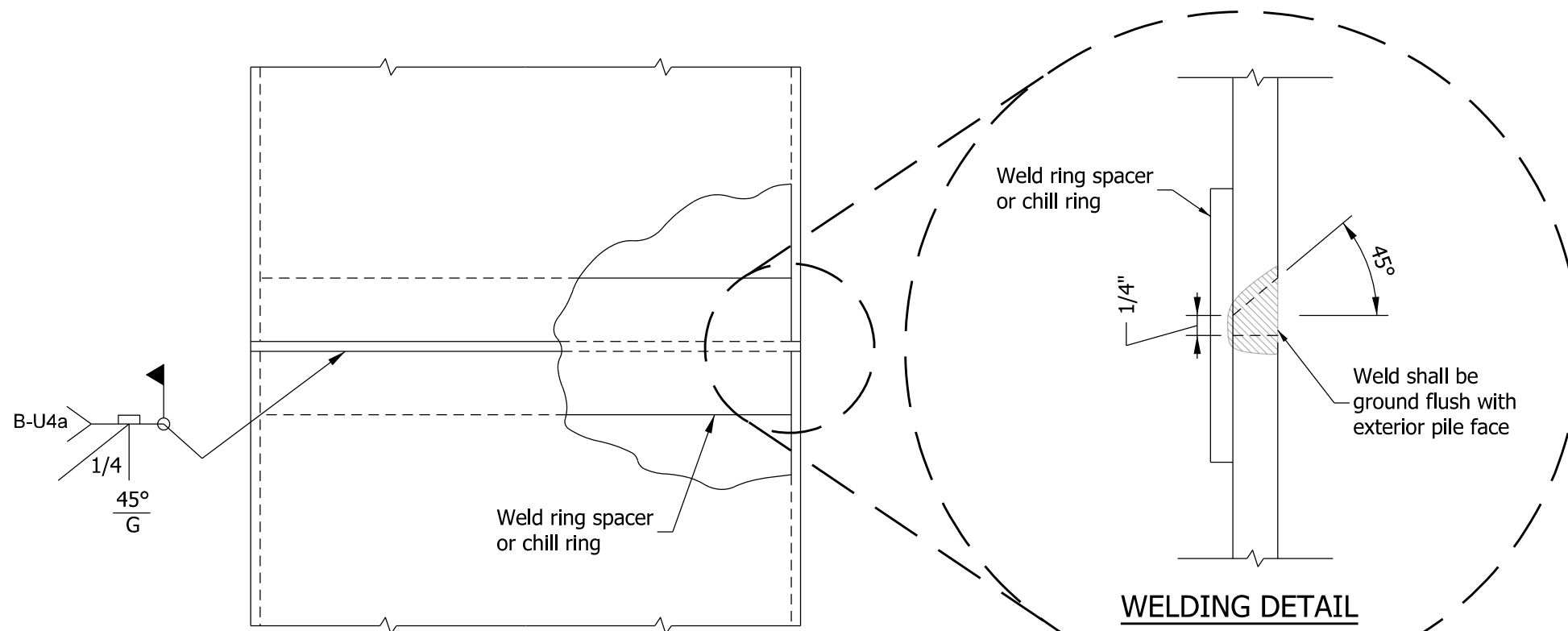
INDIANA DEPARTMENT OF TRANSPORTATION	
REINFORCED-CONCRETE ENCASEMENT FOR PILES	
SEPTEMBER 2012	
STANDARD DRAWING NO.	E 701-BPIL-01
	/s/ <i>Richard L. VanCleave</i> 09/04/12 SUPERVISOR, ROADWAY STANDARDS      DATE
	/s/ <i>Mark A. Miller</i> 09/04/12 CHIEF ENGINEER      DATE



**FOR FLUTED PIPE**



**WELDING SEQUENCE**



**FOR ROUNDED PIPE**

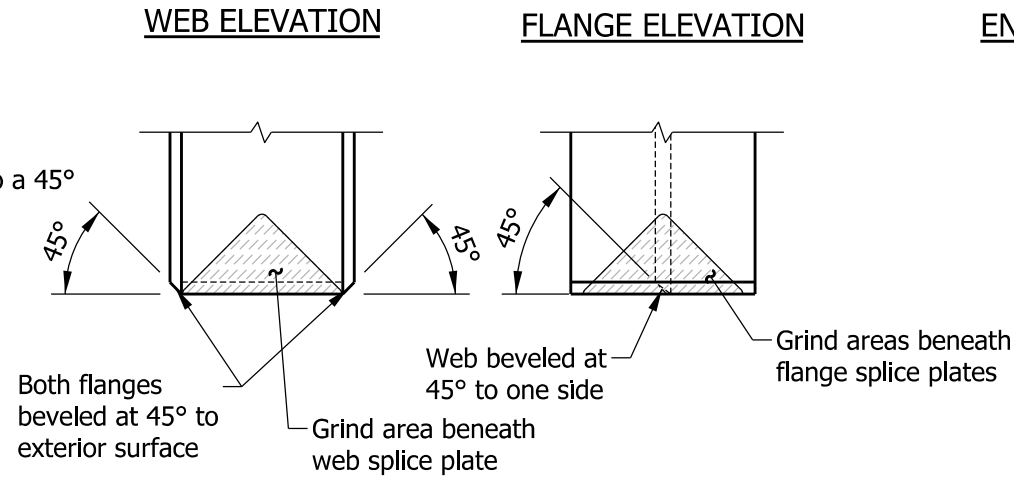
**WELDING DETAIL**

INDIANA DEPARTMENT OF TRANSPORTATION	
FIELD SPLICING PIPE PILES	
SEPTEMBER 2012	
STANDARD DRAWING NO.	E 701-BPIL-02
	<i>/s/ Richard L. VanCleave</i> 09/04/12 SUPERVISOR, ROADWAY STANDARDS      DATE
	<i>/s/ Mark A. Miller</i> 09/04/12 CHIEF ENGINEER      DATE

**PROCEDURE FOR SPLICING PARTIALLY DRIVEN PILING**

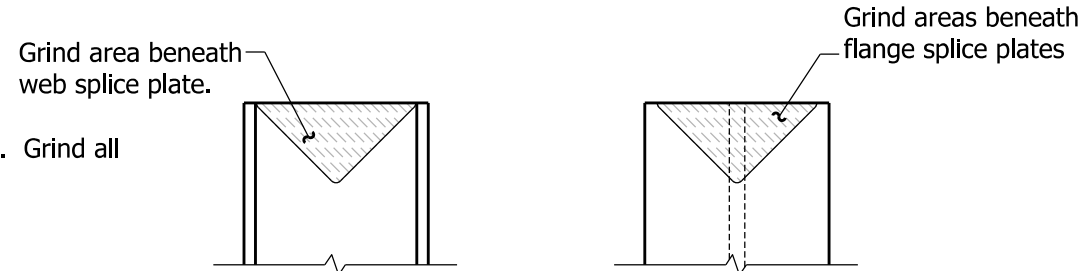
**1. Upper Pile Section**

Prepare outside of both flanges and one side of web by beveling to a 45° angle. Prepare all surfaces to be welded by grinding.



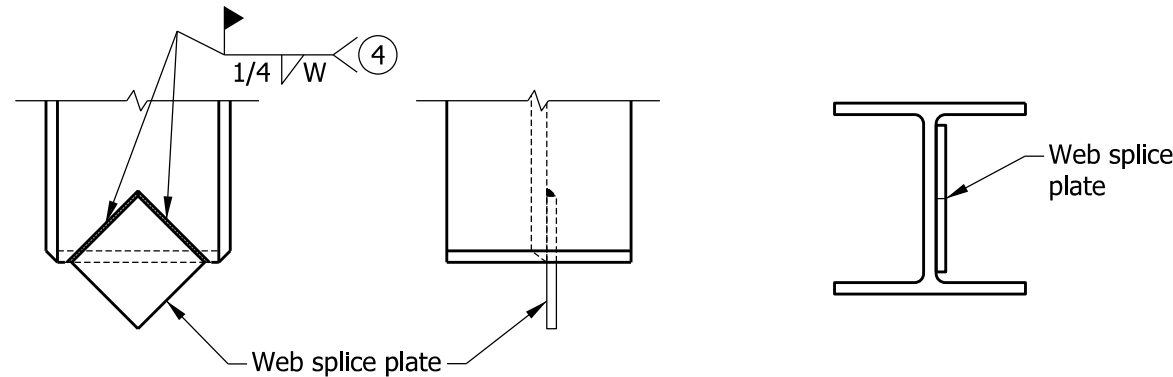
**2. Lower Pile Section**

Prepare top of pile by restoring it to its original cross section. Grind all surfaces to be welded, extending 1/2" beyond weld area(s).



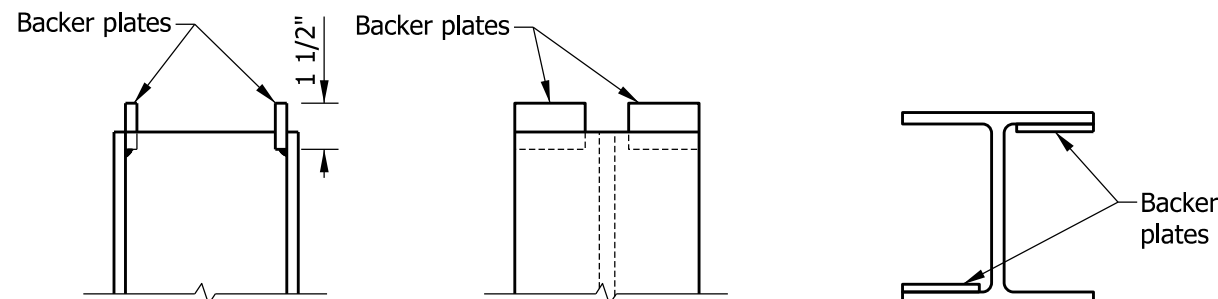
**3. Upper Pile Section**

Fillet weld web splice plate to upper pile section at two locations.



**4. Lower Pile Section**

Tack weld two backer plates to inside of flange.



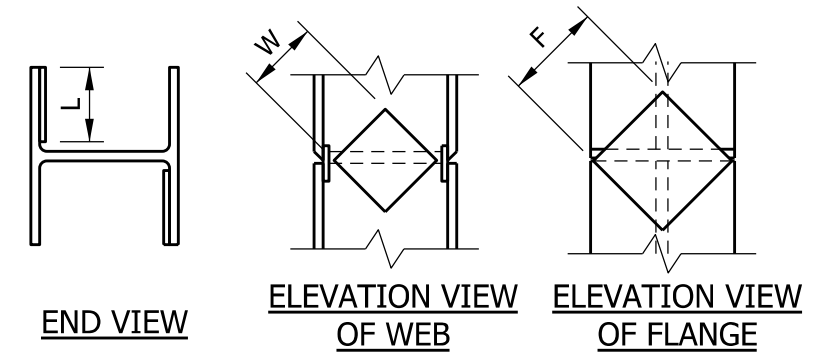
Procedure continued on Standard Drawing E 701-BPIL-04.

**END VIEW**

**NOTES**

- Steel H piling may be spliced in a horizontal position prior to driving, using splice plates and web and flange welds as shown.
- Two flange splice plates, one web splice plate, and four backer plates will be required per splice.
- All fillet welds shall be single pass.
- See table for splice plate dimensions W and F.

**SPLICE PLATE AND BACKER PLATE DIMENSIONS**



H-PILE SIZE	HP 10	HP 12	HP 14
Flange Splice Plate, F	7"	8 1/4"	10 1/4"
Web Splice Plate, W	5 3/8"	6 3/4"	8"
Backer Plate Length, L	4 1/8"	5"	6 1/4"

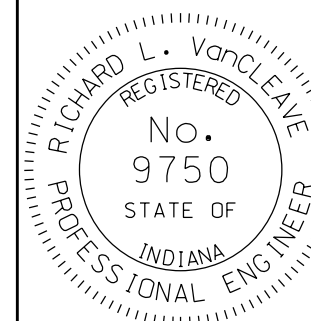
NOTE: Splice plate thickness = 3/8"  
Backer plate thickness = 1/4"

**INDIANA DEPARTMENT OF TRANSPORTATION**

**STEEL H-PILE SPLICE**

SEPTEMBER 2012

STANDARD DRAWING NO. E 701-BPIL-03



/s/ Richard L. VanCleave 09/04/12

SUPERVISOR, ROADWAY STANDARDS DATE

/s/ Mark A. Miller 09/04/12

CHIEF ENGINEER DATE

**PROCEDURE FOR SPLICING PARTIALLY DRIVEN PILING (cont.)**

**WEB ELEVATION**

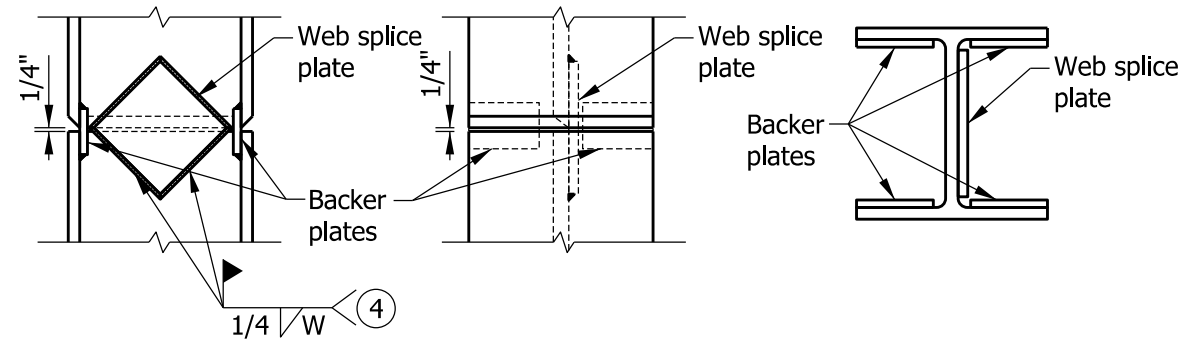
**FLANGE ELEVATION**

**END VIEW**

**NOTES**

**5. Combine Pile Sections**

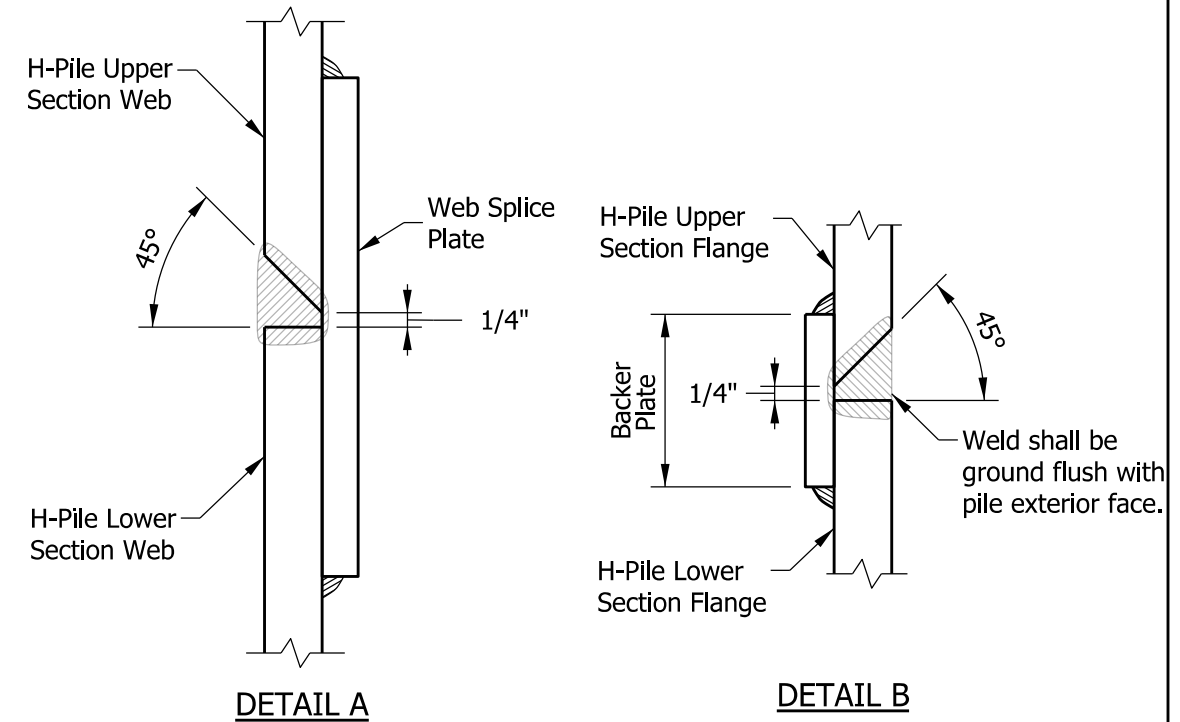
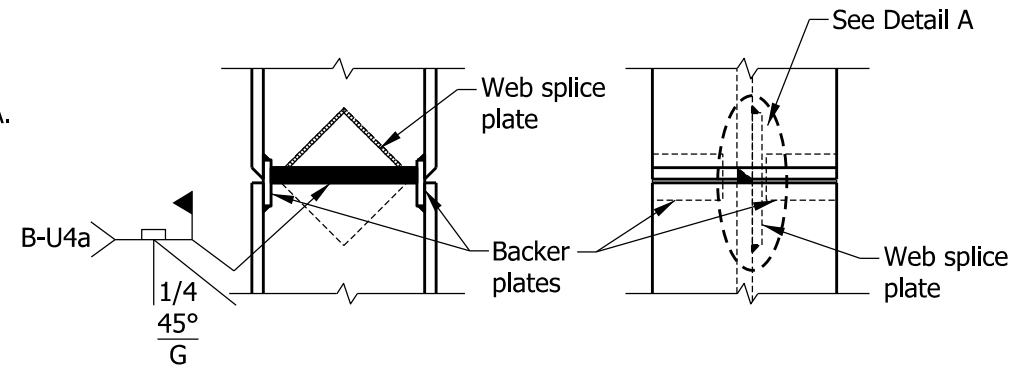
Lift and hold upper pile section into place, maintaining 1/4" gap between upper and lower pile sections by using the remaining two backer plates as a spacing guide. Plumb the pile. Tack weld the untacked side of the two backer plates to the inside upper flange. Remove the backer plate spacers and tack weld them to the inside flange portion of the upper and lower sections of the pile. Fillet weld the remaining two sides of the web splice plate to the lower section.



1. Steel H piling may be spliced in a horizontal position prior to driving, using splice plates and web and flange welds as shown.
2. Two flange splice plates, one web splice plate, and four backer plates will be required per splice.
3. All fillet welds shall be single pass.
- ④ See Standard Drawing E 701-BPIL-03 table for splice plate dimensions W and F.

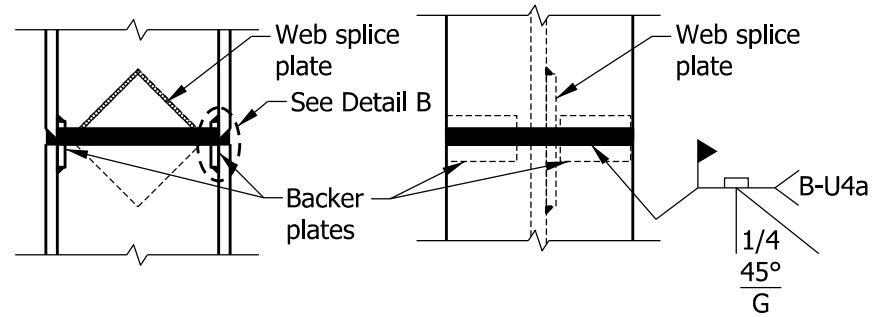
**6. Combined Pile Section**

Complete Joint Penetration (CJP) weld the web. See Detail A.



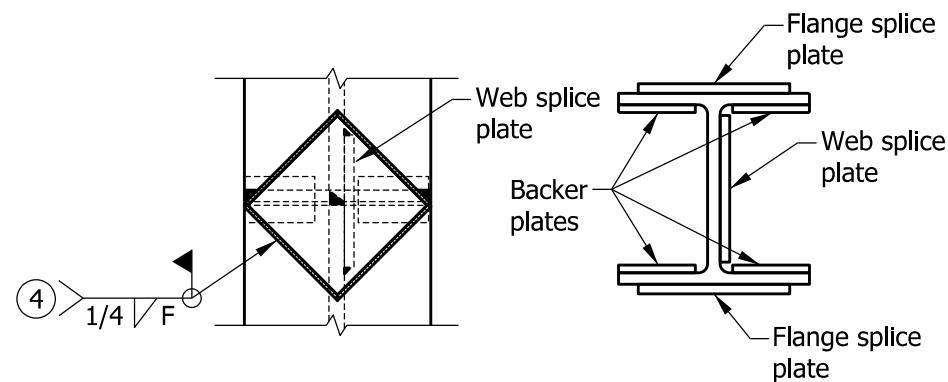
**7. Combined Pile Section**

Complete Joint Penetration (CJP) weld both flanges. Grind weld smooth with the pile exterior face. See Detail B.



**8. Combined Pile Section**

Fillet weld the flange splice plates to the flanges.

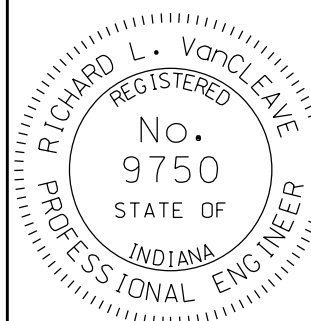


INDIANA DEPARTMENT OF TRANSPORTATION

STEEL H-PILE  
SPLICE  
(CONTINUED)

SEPTEMBER 2012

STANDARD DRAWING NO. E 701-BPIL-04

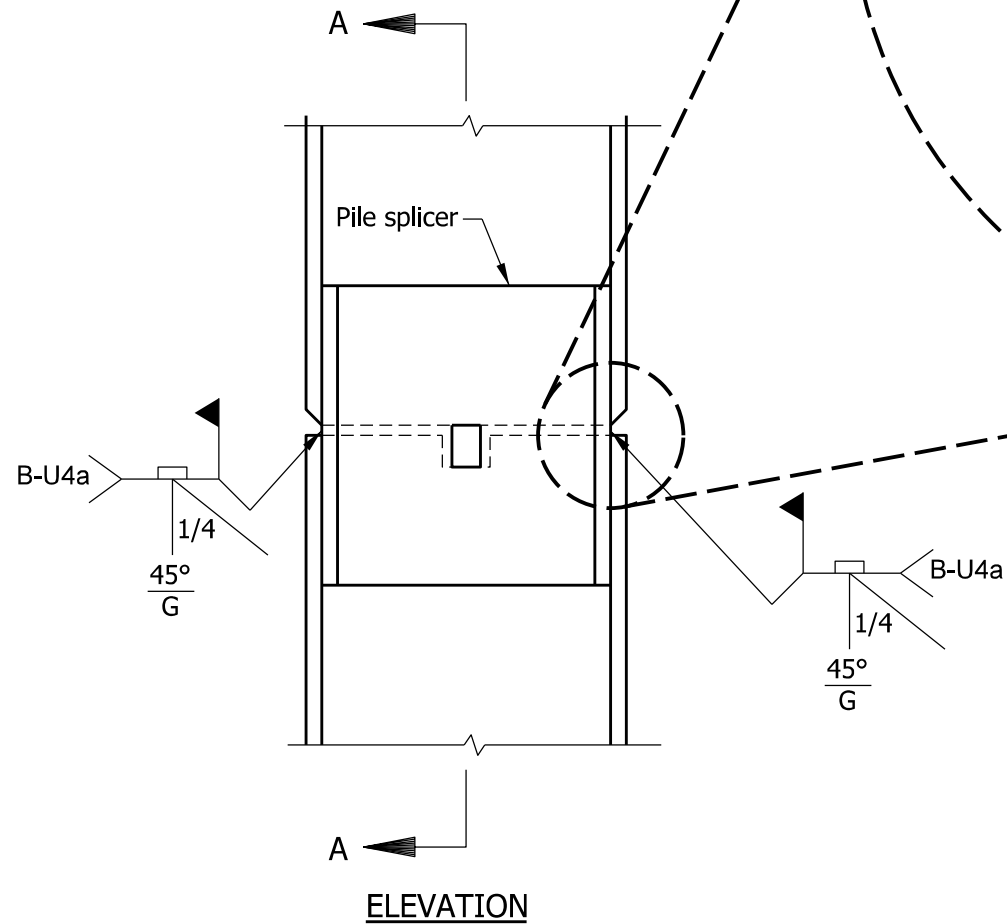
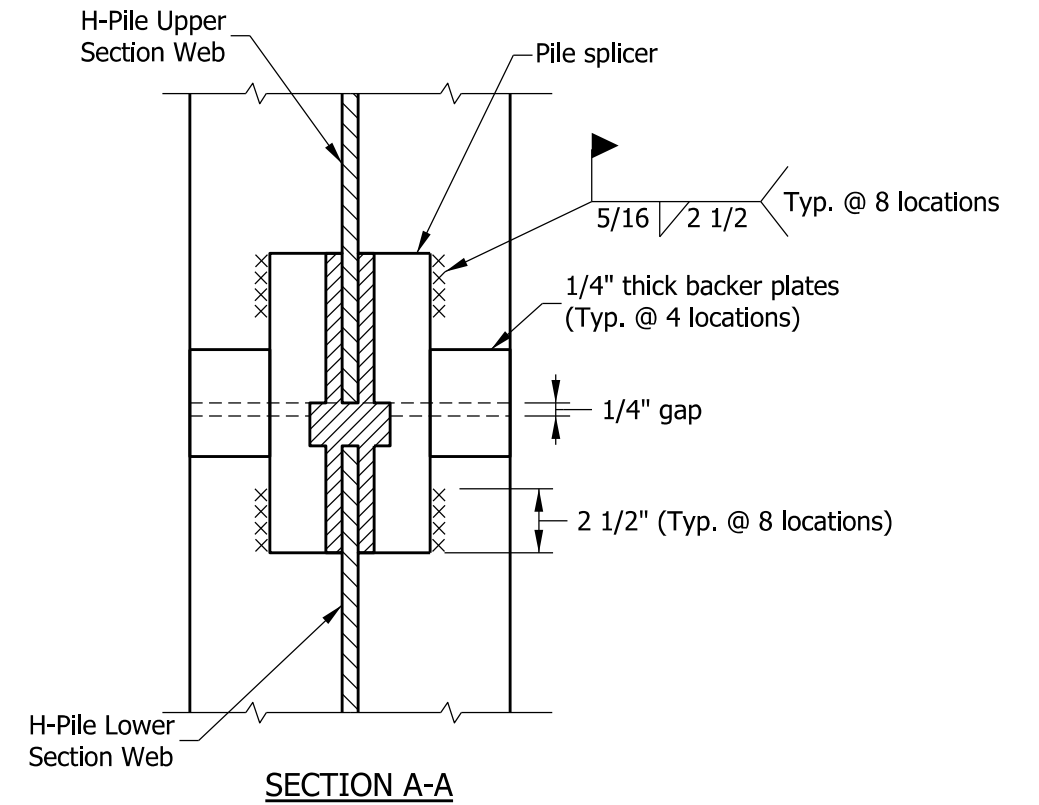
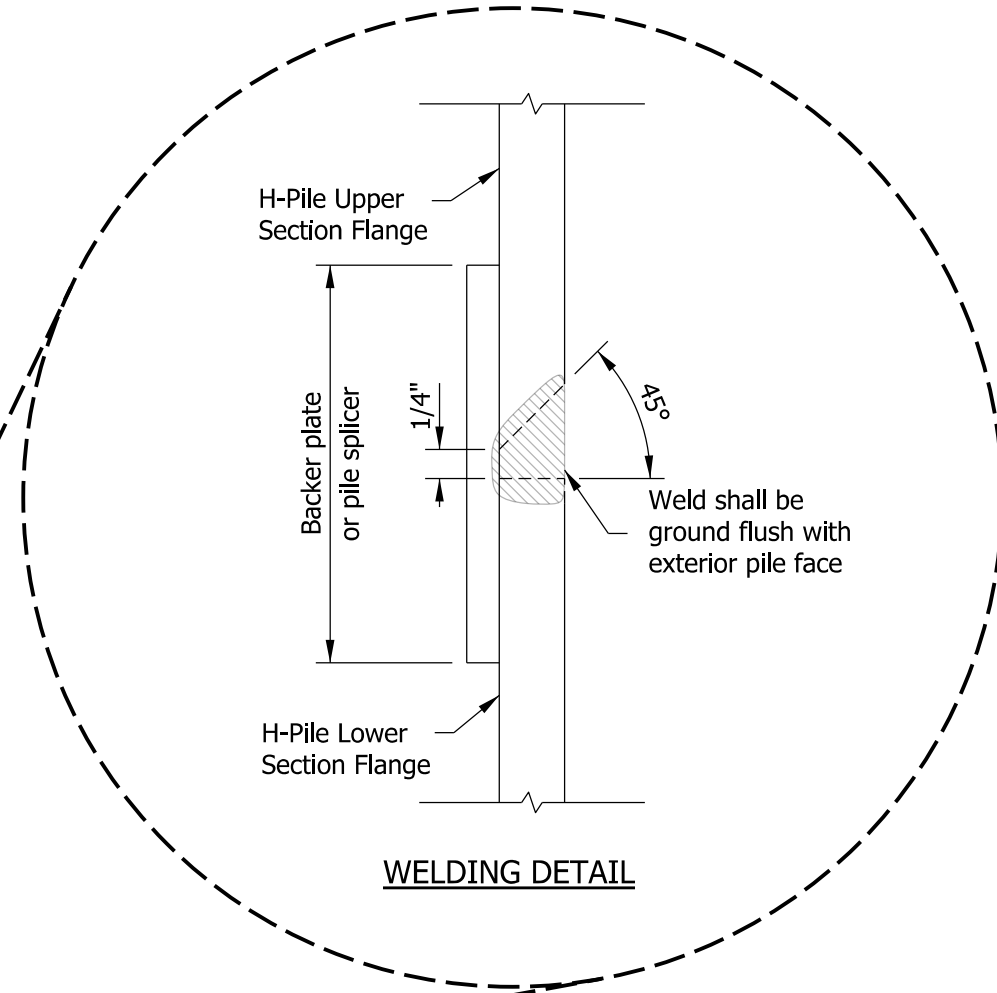
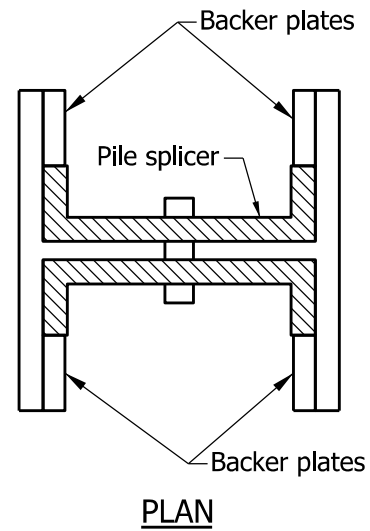


/s/ Richard L. VanCleave 09/04/12

SUPERVISOR, ROADWAY STANDARDS DATE

/s/ Mark A. Miller 09/04/12

CHIEF ENGINEER DATE



**ALTERNATE STEEL H-PILE SPLICE USING MECHANICAL PILE SPLICER**

INDIANA DEPARTMENT OF TRANSPORTATION	
ALTERNATE STEEL H-PILE MECHANICAL SPLICE	
SEPTEMBER 2012	
STANDARD DRAWING NO.	E 701-BPIL-05
	/s/ <i>Richard L. VanCleave</i> 09/04/12
	SUPERVISOR, ROADWAY STANDARDS DATE
	/s/ <i>Mark A. Miller</i> 09/04/12
CHIEF ENGINEER	DATE