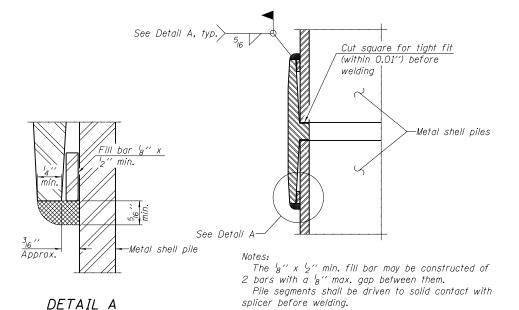


#### METAL SHELL PILE TABLE

Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd.³/ft.)
PP12	0.179''	22.60	0.0274
PP12	0.250"	31.37	0.0267
PP14	0.250′′	36.71	0.0368
PP14	0.312"	45.61	0.0361



# WELDED COMMERCIAL SPLICE

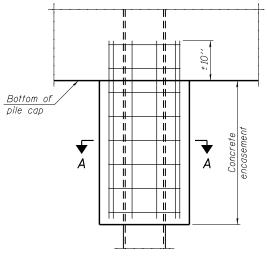
Field fabricated

/ \* Shop or

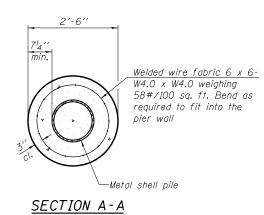
∖ field weld

or commercial

backing ring



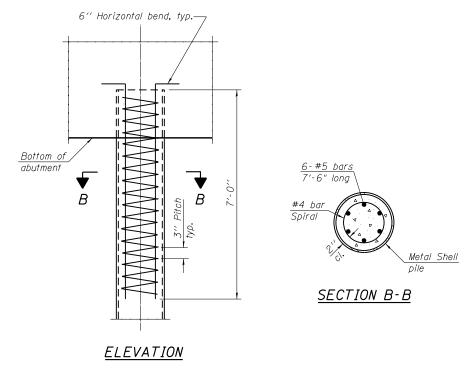
**ELEVATION** 



SECTION A A

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

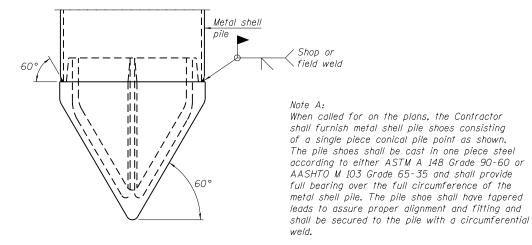
### CONCRETE ENCASEMENT AT PIERS



# METAL SHELL REINFORCEMENT AT ABUTMENTS

### 

#### END PLATE ATTACHMENT



#### METAL SHELL PILE SHOE ATTACHMENT

(See Note A

# COMPLETE PENETRATION WELD SPLICE

\* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.

F-MS

The metal shell piles shall be according to ASTM A 252 Grade 3.

BOWMAN, BARRETT & ASSOCIATES INC.

CONSULTING ENGINEERS
Chicago, Illinois
312, 228, 0100
www.bbandainc.com

1-27-	12		
ES INC.	USER NAME =	DESIGNED - TL	REVISED -
		CHECKED - BAK	REVISED -
NEERS Illinois 28.0100	PLOT SCALE =	DRAWN - TL	REVISED -
inc.com	PLOT DATE = 03/29/2013	CHECKED - BAK	REVISED -

TAT2	: N	F ILLINOIS
		TRANSPORTATION

METAL SHELL PILE DETAILS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STRUCTURE NO. 016-2471	94	2012-059-BR	COOK	631	532
3111001011L 140.010-2471			CONTRACT	T NO. 6	50J12
SHEET NO. S-39 OF S-63 SHEETS	ILLINOIS FED. AID PROJECT				