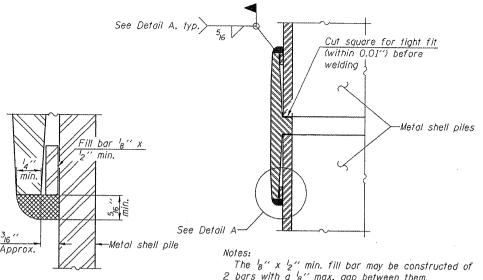


## METAL SHELL PILE TABLE

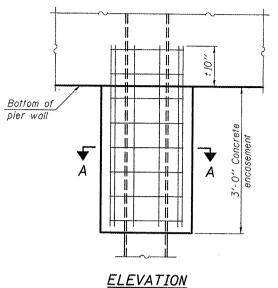
Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd.³/ft.)
PP12	0.179''	22.60	0.0274
PP12	0.250"	31.37	0,0267
PP14	0.250′′	36.71	0.0368
PP14	0.312''	45.61	0.0361



# DETAIL A

The  ${}_8$ " x  ${}_2$ " min. fill bar may be constructed of 2 bars with a  ${}_8$ " max. gap between them. Pile segments shall be driven to solid contact with splicer before welding.

# WELDED COMMERCIAL SPLICE



Welded wire fabric 6 x 6W4.0 x W4.0 weighing
58#/100 sq. ft. Bend as required to fit into the pier wall

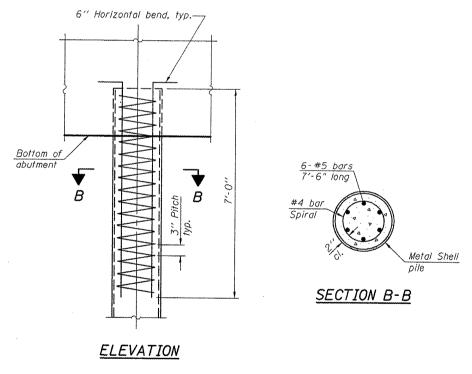
Metal shell pile

## SECTION A-A

Note:

Forms for encasement may be omitted when soil conditions permit.

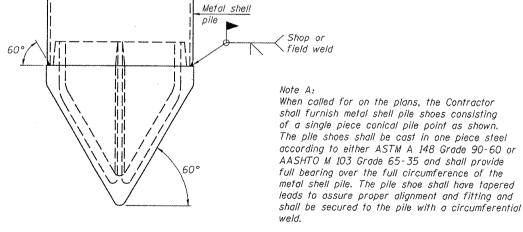
# CONCRETE ENCASEMENT AT PIERS



# METAL SHELL REINFORCEMENT AT ABUTMENTS

# Metal shell pile $3_4''$ End plate $5_5''$ Shop or field weld $5_5''$

#### END PLATE ATTACHMENT



# METAL SHELL PILE SHOE ATTACHMENT

(See Note A)

7 - 1 - 10

F-MS

# COMPLETE PENETRATION WELD SPLICE

Metal shell

\* 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.

Note:

Field fabricated

s = t - 16"

or commercial

backing ring

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

\* Shop or

field weld

- 1											
- 1	FILE NAME :	USER NAME ≈ seb	DESIGNED - KTH	REVISED -							
	P:\07files\070286\Phase2\Bridge Plans\29	_MetalShellPiles.dgn	CHECKED - ADL	REVISED -	STATE OF ILLINOIS	METAL SHELL PILE DETAILS	F.A.P. SECTION	) מנ	COUNTY	TOTAL S	HEET NO.
- 1		PLOT SCALE = 0:2.0000 '2' / IN.	DRAWN - BGJ	REVISED -	DEPARTMENT OF TRANSPORTATION	S.N. 055-0080 (NB) & S.N. 055-0081 (SB)	310 (38B-2)E	JBR MC	DONOUGH	130	86
L		PLOT DATE = 12/7/2011	CHECKED - RJP	REVISED -	Alliment of Highest Officials	SHEET NO. 29 OF 35 SHEETS			CONTRACT	NO. 68	3691
						5/ILC/ NO. 23 OF 33 3/ILE/3	I ILL	LINOIS FED. AID PR	ROJECT		

Klingner & Associates P.C