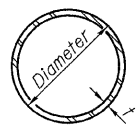
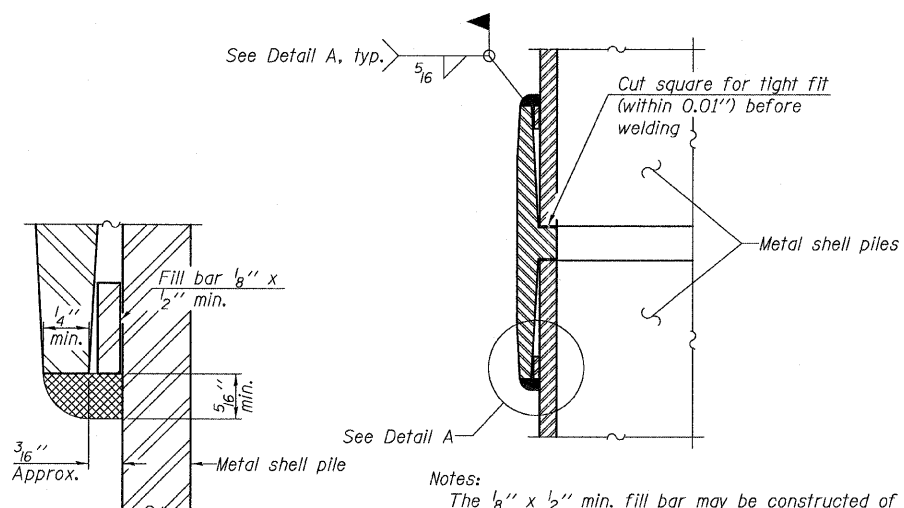


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



METAL SHELL PILE TABLE

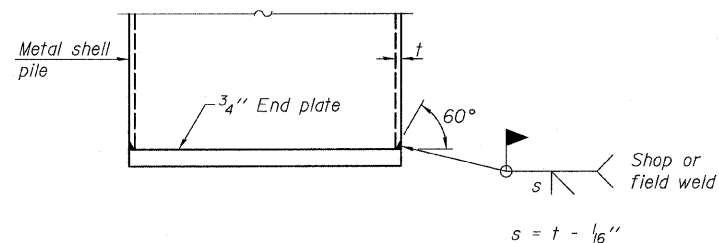
Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. ³ /ft.)
PP12	0.179"	22.60	0.0274
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361



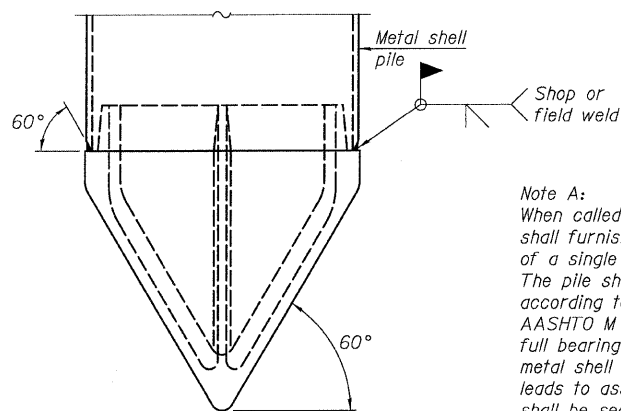
DETAIL A

Notes:
The 1/8" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them.
Pile segments shall be driven to solid contact with splicer before welding.

WELDED COMMERCIAL SPLICE



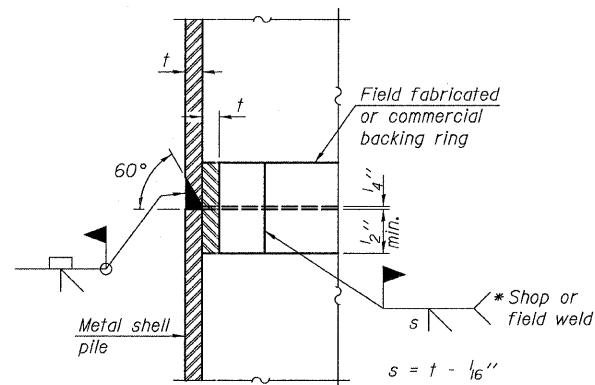
END PLATE ATTACHMENT



METAL SHELL PILE SHOE ATTACHMENT

(See Note A)

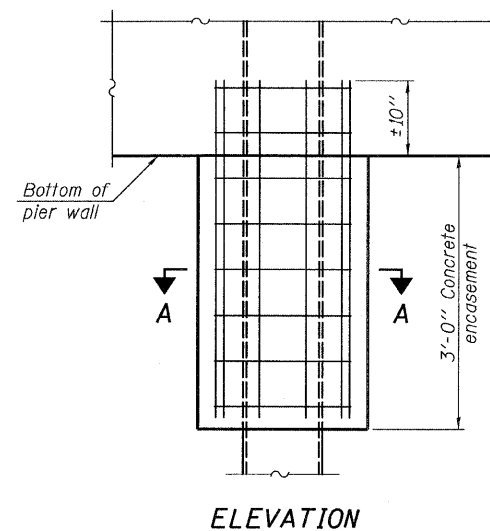
Note A:
When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 90-60 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld.



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.

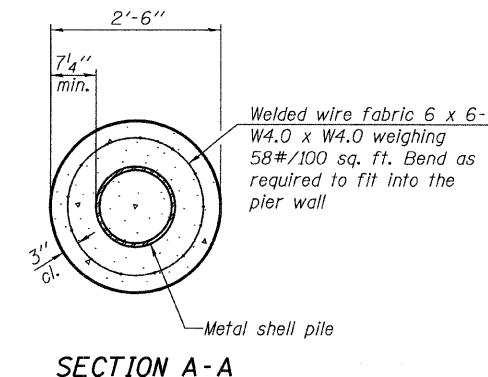
Note:
The metal shell piles shall be according to ASTM A 252 Grade 3.



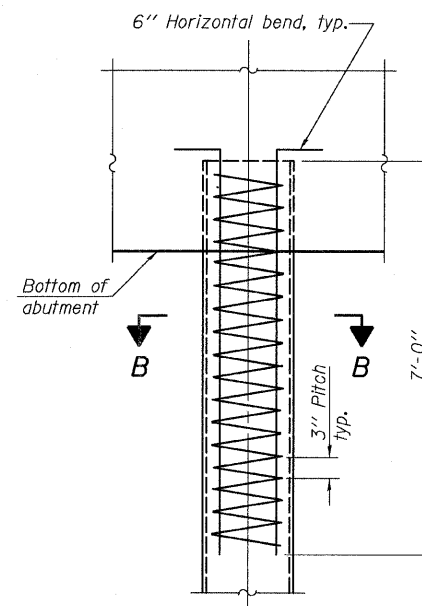
ELEVATION

CONCRETE ENCASUREMENT AT PIERS

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

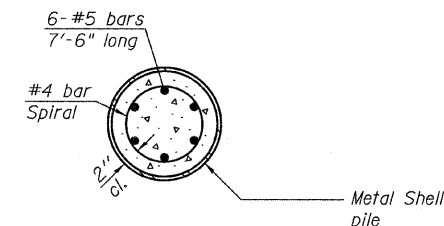


SECTION A-A



ELEVATION

METAL SHELL REINFORCEMENT AT ABUTMENTS



SECTION B-B

**METAL SHELL PILE DETAILS
STRUCTURE NO. 016-W821**

TYLIN INTERNATIONAL	DESIGNED - JMA	REVISIONS		SHEET NO. 12	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.									
	CHECKED - AMD,	NAME	DATE							55	0711.2R & 1011.1BR	COOK	741	688				
	DRAWN - JMA														16 SHEETS	CONTRACT NO. 60999		
	CHECKED - AMD,																FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT
	DATE - 03/25/2011																	

4/28/2011 2:49:55 PM d:\01345\structure\Retaining Wall\ret55pile.dgn