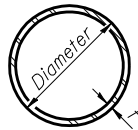


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

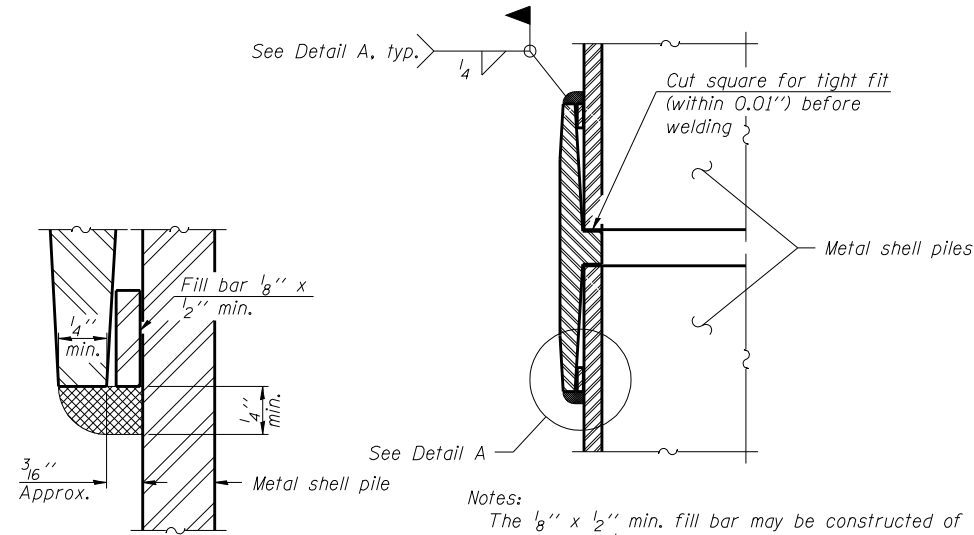
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 11 14 SHEETS
F.A.P. 751	101B-2	PIKE	48	36	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract #72928



METAL SHELL PILE TABLE

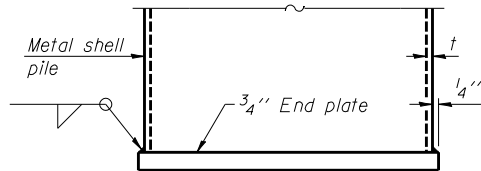
Designation	Wall thickness <i>t</i>	Weight per foot (Lbs./ft.)	Inside volume (yd. ³ /ft.)	Encasement diameter A
PP12	0.179"	22.60	0.0274	30"
PP12	0.250"	31.37	0.0267	30"
PP14	0.250"	36.71	0.0368	30"
PP14	0.312"	45.61	0.0361	30"



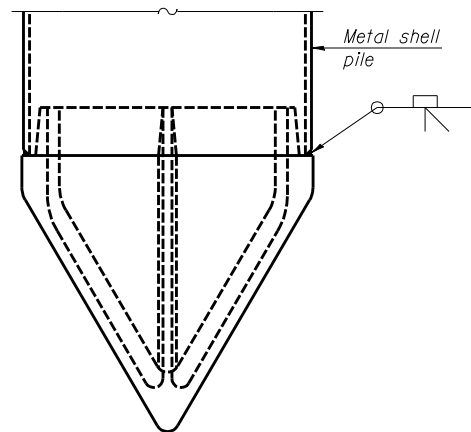
DETAIL A

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

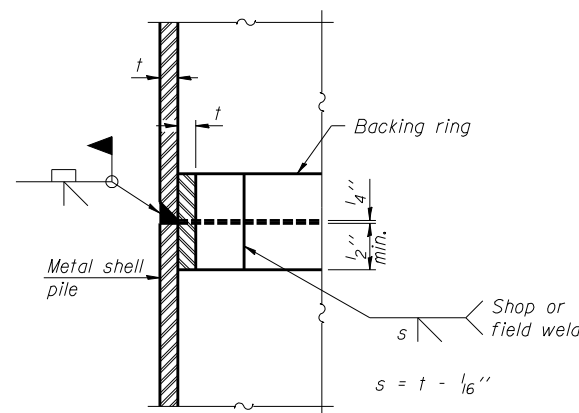
WELDED COMMERCIAL SPLICE



END PLATE ATTACHMENT

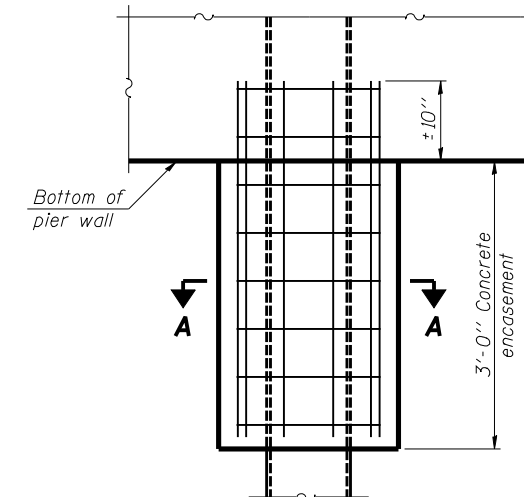


METAL SHELL PILE SHOE ATTACHMENT

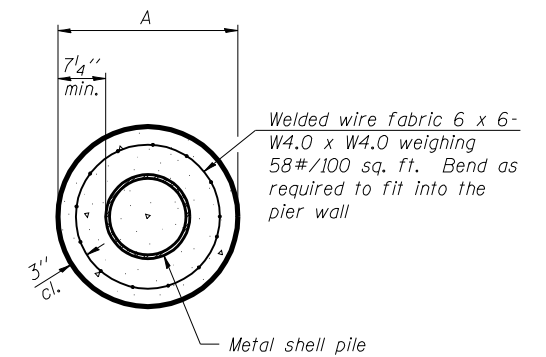


COMPLETE PENETRATION WELD SPLICE

Backing ring made from pile shell. Remove segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



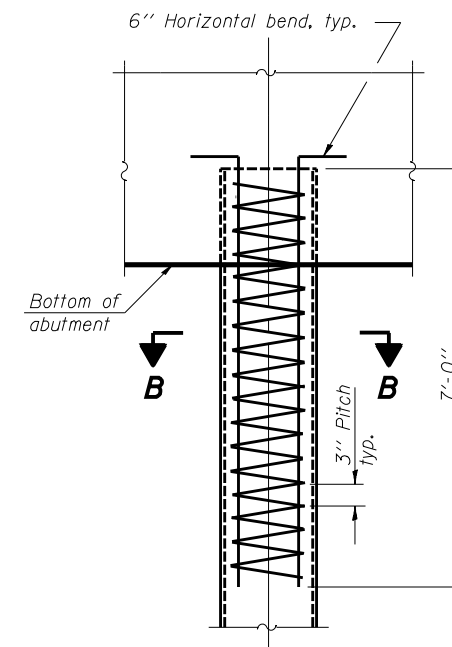
ELEVATION



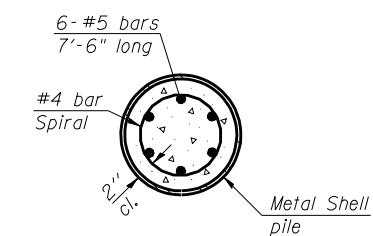
SECTION A-A

Notes:
See Metal Shell Pile Table for dimension "A".
Forms for encasement may be omitted when soil conditions permit.

CONCRETE ENCASEMENT AT PIERS



ELEVATION



SECTION B-B

METAL SHELL REINFORCEMENT AT ABUTMENTS

DESIGNED	Nicholas R. Barnett
CHECKED	Phillip R. Litchfield
DRAWN	Greg D. Farmer
CHECKED	NRB/PRL

August 30, 2007
EXAMINED <i>Thomas J. Damagalli</i>
PASSED <i>Ralph E. Anderson</i>
ENGINEER OF BRIDGES AND STRUCTURES

F-MS

11-1-06

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

PILE DATA
F.A.P. 751 SEC. 101B-2
PIKE COUNTY
STATION 381+00.00
STRUCTURE NO. 075-0507