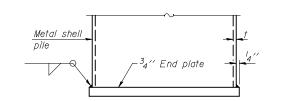
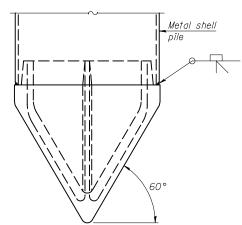


#### METAL SHELL PILE TABLE

Designation and outside diameter		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



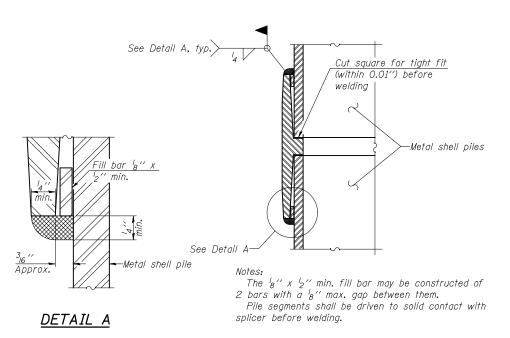
#### END PLATE ATTACHMENT



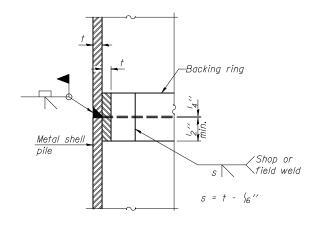
Note A: When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 90-60 or AASHTO M 103 Grade 65-35 and shall provide full bearing over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

# METAL SHELL PILE SHOE ATTACHMENT

(See Note A)

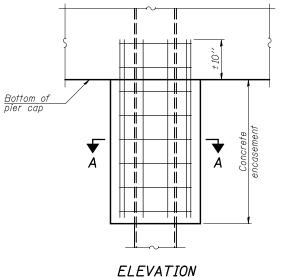


## WELDED COMMERCIAL SPLICE



#### COMPLETE PENETRATION WELD SPLICE

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

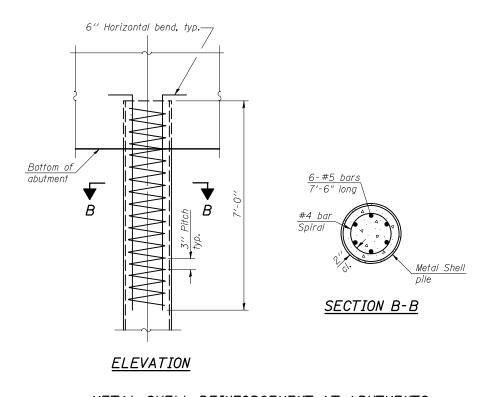


SHEET NO. 18 ROUTE NO. FAP 836 BR-2 21 SHEETS 29 Champaign 45 FED. ROAD DIST, NO. 5

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

Forms for encasement may be omitted when soil conditions permit.

### CONCRETE ENCASEMENT AT PIERS



## METAL SHELL REINFORCEMENT AT ABUTMENTS

ILLINOIS DEPARTMENT OF TRANSPORTATION CONCRETE PILES IL RTE. 49 OVER LITTLE VERMILION RIVER FAP 836 SECTION 118BR-2 CHAMPAIGN COUNTY STA. 688+85 STR. NO. 010-0284 SCALE: VERT. HORIZ. DATE MAY 2008 DRAWN BY GEW

CHECKED BY MJS

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