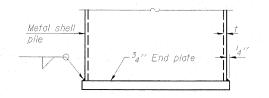
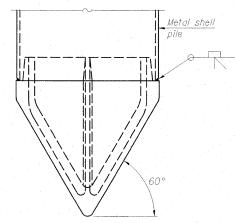


## METAL SHELL PILE TABLE

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′′.	<i>31.37</i>	0.0267
PP14	0.250"	36.71	0.0368
PP14 .	0.312''	45.61	0.0361



#### END PLATE ATTACHMENT

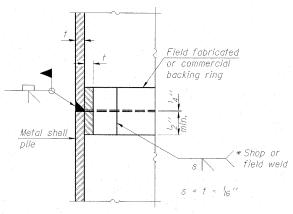


When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 90-60 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full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

## METAL SHELL PILE SHOE ATTACHMENT

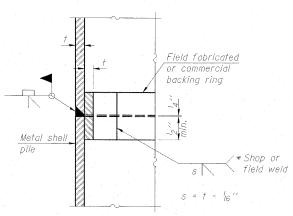
# -Metal shell piles See Detail A--Metal shell pile The $^{\prime}_8$ '' x $^{\prime}_2$ '' min. fill bar may be constructed of 2 bars with a $^{\prime}_8$ '' max. gap between them. Pile segments shall be driven to solid contact with DETAIL A splicer before welding. WELDED COMMERCIAL SPLICE

See Detail A, typ.



# 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.



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

welding

Cut square for tight fit (within 0.01") before

# METAL SHELL REINFORCEMENT AT ABUTMENTS

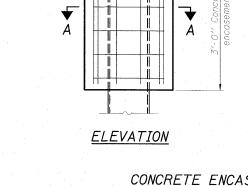
# METAL SHELL PILE DETAILS STRUCTURE NO. 015-0064

SHEET NO. 31	F.A.P. RTE.	SEC <sup>-</sup>	ΓΙΟΝ	COUNTY	TOTAL SHEETS	SHEET NO.
35 SHEETS	325	(19VBR)BR		COLES	92	55
					CONTRACT NO. 74149	
	FED. ROAD D	IST. NO.	ILLINOIS FED. A	ID PROJECT		

SECTION B-B

# DESIGNED BY: DAJ 11/08 DRAWN BY: RJT 11/08 CHECKED BY: MTD 03/09 APPROVED BY: RDP 08/09

F-MS 10-1-08

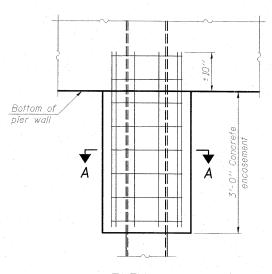


Bottom of abutment

The metal shell piles shall be according to

ASTM A 252 Grade 3.

В



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 6" Horizontal bend, typ.

В

ELEVATION