

**CITY OF MEMPHIS – STANDARD CONSTRUCTION SPECIFICATIONS**  
**SECTION 02260 STEEL SHEET PILING**

**PART 1 – SCOPE**

1.01 This work shall consist of the furnishing and placing of steel sheet piling of the sizes, weights, and dimensions shown on the Plans or directed by the Owner for channel stabilization, slope stabilization, special protection, or other purposes.

**PART 2 – MATERIALS AND EQUIPMENT**

2.01 MATERIAL

A. Steel Sheet Piles.

1. Steel sheet piles shall meet the requirements of ASTM A 328 unless otherwise specified on the Plans. Size and thickness of sheets shall be as shown on the Plans. The Contractor shall furnish 3 certified copies of mill test reports containing the true chemical and physical analysis of piling material.

B. Coal Tar Epoxy Coating.

1. The coating system shall be composed of 1 coat of Coal Tar Epoxy composed as follows:

a. Solids by Volume (Mixed)	77.0 plus or minus 1.0%
b. Dry Film Thickness	14 to 20 mils per coat
c. Color	Black
d. Finish	Semi-gloss
e. Curing Time at 75°F	6 hours (maximum)

2.02. EQUIPMENT.

A. Steel sheet piles shall be driven with vibratory or gravity hammers specifically designed for pile driving. All driving equipment shall be on hand and approved by the Owner before work can proceed.

**PART 3 – CONSTRUCTION REQUIREMENTS**

3.01 HANDLING AND STORAGE.

A. Steel sheet piles shall be handled and stored by methods that will not injure the pile. The pile shall be stored above ground upon platforms, blocking, or other supports. They shall be kept free from dirt, grease, and other foreign matter and shall be protected insofar as practical from corrosion.

3.02 DRIVING SHEET PILES.

A. Sheet piles shall be driven with adequate hammers as necessary to drive the piles to the line, grade, and required depth shown on the Plans. In order to maintain satisfactory alignment, the sheet piles shall be driven in such increments of penetration as may be found necessary to prevent distortion, twisting out of position or pulling apart at the interlocks.

B. Piles shall be kept moving during driving operations by continuous operation of the hammer except when interrupted by an emergency. The piles when in place in the completed structure shall be practically watertight at the joints.

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3.03 JETTING SHEET PILES.

A. The use of jets will not be permitted at locations where the stability of embankments or other improvements would be endangered. The written approval of the Owner shall be obtained prior to jetting specific sheet piling. In case it is necessary to obtain the penetration desired, the Contractor may supply and operate one or more high pressure water jetting systems to erode the material adjacent to the pile and thereby facilitate driving the sheet piles. The jetting may not be done ahead of the actual driving operation. Jetting shall take place simultaneously with the driving operation. The jets shall be withdrawn and the final penetration of the sheet pile obtained by driving with the hammer alone for at least the last foot of penetration.

3.04 PILING CUT-OFF AND DAMAGES.

A. The tops of sheet piling shall be cut-off or driven down to the elevation indicated on the Plans, or as approved by the Owner.

B. If the sheet piles are appreciably distorted or otherwise damaged below cut-off elevation, the damaged piles shall be removed and replaced at the Contractor's expense.

C. Any sheet pile damaged during driving by reason of internal defects or improper driving or which is either out of its required line and grade shall be withdrawn and replaced with a new pile at the Contractor's expense.

**PART 4 – MEASUREMENT**

4.01 Steel sheet piling will be measured for payment by the linear foot of sheet piling measured horizontally along the piling face for the various vertical piling lengths, metal thicknesses and sections specified, complete in place.

**PART 5 – PAYMENT**

5.01 The accepted quantities of steel sheet piling will be paid for at the contract unit price per linear foot, which unit price shall be full compensation for finishing and driving the piling, painting as required, jetting if required and permitted by the Owner, and all other labor, material, equipment and incidentals needed to complete the work.

5.02 PAYMENT WILL BE MADE UNDER:

<u>Item No.</u>	<u>Pay Item</u>	<u>Pay Unit</u>
02260-01	STEEL SHEET PILING	Linear Foot
02260-01.____.____	____" Thick Steel	Linear Foot
	____" Section Sheet	
	Piling ____' Vertical Length	

**END OF SECTION 02260**