1. FLUTED STEEL FOUNDATION PILES (Revised 12-16-09)

Description. Furnish and install fluted steel foundation piles as indicated.

Materials. Supply unused fluted steel foundation piles conforming to SAE-1010 Steel Specifications and having the following chemical ranges and limits:

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| Carbon | 0.08 - 0.13% |
| Manganese | 0.30 - 0.60% |
| Sulfur | 0.05% (maximum) |
| Phosphorous | 0.04% (maximum) |

The minimum tensile yield strength of steel for the piles as determined by standard tests is 345 MPa.

Construction Requirements. Furnish and install fluted steel foundation piles in accordance with the contract documents and the manufacturer's recommendations. Use one tapered section per pile. Use a section that tapers approximately 0.021 m/m and has a factory-installed, forged-steel conical nose. The minimum tip diameter is 203 mm. Use 356 mm diameter extension sections for the remainder of the pile length. Once all the piles within any substructure unit are in place and approved, fill with Class DD-Bridge concrete to the bottom of cap elevation. Wait a minimum of one day before placing cap concrete.

Measurement and Payment. Fluted steel foundation piles are measured and paid for in accordance with Section 559 of the Standard Specifications. Pile splices and fill concrete will not be measured for payment. Include all costs associated with the requirements of this provision in the respective unit price bid for Furnish Fluted Pile 356 x 5.3 mm or Drive Fluted Pile 356 x 5.3 mm.