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(April 6, 2015)

Sign Structure Foundation Shaft Casing And Slurry

All temporary casing shall be a smooth wall non corrugated structure of steel base metal. All temporary casing shall be of ample strength to resist damage and deformation from transportation and handling, installation and extraction stresses, and all pressures and forces acting on the casing. The temporary casing shall be capable of being removed without deforming and causing damage to the completed shaft, and without disturbing the surrounding soil.

The temporary casing shall be clean prior to placement in the excavation. The temporary casing may be telescoped, but the outside diameter of the temporary casing shall not be less than the specified diameter of the shaft.

Slurry for shaft foundations shall be either synthetic slurry or water slurry, conforming to the following requirements:

Synthetic Slurries

Synthetic slurries shall be used in conformance with the manufacturer's recommendations, and the quality control plan specified in Section 8-21.3(9)F as supplemented in these Special Provisions. The sand content of synthetic slurry prior to final cleaning and immediately prior to placing concrete shall be less than 1.0 percent, in accordance with API 13B-1, Section 5.

Water Slurry

Water without site soils may be used as slurry when casing is used for the entire length of the drilled hole. Use of water slurry without full length casing may only be used with the approval of the Engineer. Water slurry shall conform to the following requirements:

Property	Test	Requirement
Density (pcf)	Mud Weight (Density) API 13B-1, Section 1	65 max.
Sand Content (percent)	Sand API 13B-1, Section 5	1.0 max.

Slurry temperature shall be at least 40F when tested.