SECTION 10.02
LIGHT STANDARD AND TRAFFIC CONTROL FOUNDATIONS

10.02.01--Description: This item shall consist of furnishing and installing a light standard or traffic control foundation of the type called for at the location and to the dimensions and details shown on the plans or as directed by the Engineer and in conformity with these specifications. Rock in so far as it applies to "Rock in Foundation Excavation" shall be defined as rock in definite ledge formation, boulders, or portions of boulders, cement masonry structures, concrete structures or portland cement concrete pavement which has a cross-sectional area that exceeds fifty percent (50%) of the cross-sectional area of the designed foundation hole.

10.02.02--Materials: The materials for the work shall conform to the following:

Article M.02.01 for Gravel Fill
Article M.03.01 for Class "A" Concrete
Article M.06.01 for Bar Reinforcement
Article M.08.02-4 for Precast Concrete
Article M.13.01 for Topsoil
Article M.13.03 for Fertilizer
Article M.13.04 for Seed Mixture
Article M.13.05 for Mulch Materials
Article M.15.02 for Anchor Bolts
Article M.15.03 for Rock Anchors
Article M.15.09 for Electrical Conduit
Article M.15.15-7 for Ground Rods

10.02.03--Construction Methods: The Light Standard and Traffic Control Foundations shall be constructed in accordance with the pertinent provisions of Article 6.01.03. Only the Type I Light Standard or Type I Traffic Control Foundation may be precast. The Engineer shall decide whether rock anchors shall be used or the rock shall be excavated. The finished elevation of the top of the foundation shall be as shown on the plans. The final elevation of the top of the light standard foundation shall be 25 mm above finished grade or as directed by the Engineer. The top of the foundation shall be level in all respects. Concrete for foundation shall be placed monolithically against undisturbed soil for poured in place foundations. Necessary electrical conduit, anchor bolts, ground rod sleeves and ground rods shall be placed in proper position and shall be held in place by means of a template. The concrete may be placed against the sides of the excavation, however, the exposed portion of the foundations shall be formed to the neat lines as shown on the plans. When in the judgment of the Engineer, unusual soil conditions prevent excavation to neat lines as shown on the plans, the complete foundation shall be formed.

After the forms have been completely removed, the entire excavation shall be backfilled in accordance with Section 2.14. All conduits shall be capped with standard pipe caps before placing the concrete and shall remain capped until the cable is installed. Electrical conduit of the size indicated shall extend 600 mm outside the foundation. All portions of the foundations which will remain exposed to view shall be finished to the satisfaction of the Engineer. Forms shall not be removed until after the concrete has hardened properly and not less than 24 hours after the concrete has been placed. The Contractor shall allow sufficient time for the foundation to cure before placing any strain on the foundation. Steel poles shall not be installed until a minimum of seven days after the concrete has been placed and a minimum of ten days before making span wire attachments thereto. Mastarm assemblies shall not be installed until ten days after the concrete has been placed.

10.02.04--Method of Measurement: Light Standard and Traffic Control Foundations of the type specified shall be measured for payment by the number of units installed and accepted. This measurement shall include the electrical conduit sweeps which shall extend 600 mm outside of the foundation.

The rock in foundation excavation will be measured from the top of rock to the bottom of rock excavation. Gravel will be measured in accordance with Article 2.13.04.

10.02.05--Basis of Payment: This work will be paid for at the Contract unit price each for Light Standard or Traffic Control Foundation: of the type called for, which price shall include all materials, equipment, forms, excavation, disposal of surplus material, Class "A" concrete, electrical conduit sweeps, conduit caps, ground rod, sleeves, bonding bushings, anchor bolts, backfill, topsoil, grading, seeding, fertilizing, mulching, riprap, restoration of sidewalk and roadway surfaces.

When rock is encountered within the limits of excavation, its removal will be paid for at the Contract unit price per vertical meter for "Rock in Foundation Excavation," which price shall include any additional excavation to remove the rock and any additional concrete required to fill the excavation beyond the designed foundation hole dimensions.

Pay Item	Pay Unit
Light Standard Foundation (Type)	EA.
Traffic Control Foundation (Type)	EA.
Rock in Foundation Excavation	Vert. m