

CATEGORY 800 TRAFFIC

SECTION 801 — CONCRETE FOUNDATIONS

801.01 DESCRIPTION. This work shall consist of constructing concrete foundations for installing traffic signals, highway lighting and signs at locations specified in the Contract Documents or as directed by the Engineer.

801.02 MATERIALS.

Curing Materials	902.07.03
Concrete Mix No. 2	902.10
Corrugated Metal Pipe	905
Reinforcement Steel	908.01
Anchor Bolts	909.07
Conduit	921.07
Galvanizing for Hardware	A 153

801.03 CONSTRUCTION.

801.03.01 Excavation. The Contractor shall perform all excavation to the dimensions specified in the Contract Documents. All excavation work will be inspected and approved by the Engineer before proceeding with construction.

801.03.02 Galvanized parts that have been cut or chipped to bare metal shall be repaired as specified in A 780.

801.03.03 Concrete Placement. It is intended that all concrete be placed against undisturbed earth. However, where the existing ground will not retain its shape during or after excavation or if the excavation should show any tendency to cave in before placing the foundation, the Contractor shall provide and install a corrugated metal pipe to retain the earth and receive the concrete. The pipe shall remain in place.

Concrete shall be mixed, placed and tested as specified in Section 420. Footings including reinforcement and bolt circle data shall be as specified in the Contract Documents and in conformance with the approved working drawings. Anchor bolts shall be plumb. Suitable templates for setting anchor bolts shall be accurately placed and left in place until the concrete has attained its initial set.

Tops of foundations shall be troweled to a dense smooth finish. Exposed surfaces shall be cured by use of a liquid membrane curing compound.

801.03.04 Unusual Soil Conditions. When unexpected subsurface conditions are encountered, the excavation depth shall be modified as directed by the Engineer. Rock or boulders which cannot be removed by ordinary means shall be removed to the levels and dimensions specified in the Contract Documents, or to a depth necessary to obtain the required stability as directed by the Engineer.

801.03.05 Backfill. Material used for backfill shall be free of topsoil, organic, frozen, or other undesirable material. Spaces to be backfilled shall be kept free of trash and shall be cleaned before backfill is placed. Backfill material shall be suitable material from the excavation or other sources conforming to Section 204. All backfill shall be compacted in layers not exceeding 8 in. loose thickness. Compaction shall be done with mechanical or vibratory compaction equipment to obtain at least 92 percent of maximum density at a moisture content within 2 percent of the optimum in conformance with T 180, Method C.

801.04 MEASUREMENT AND PAYMENT. Concrete foundations for installing traffic signals, highway lighting and signs will be measured and paid for at the Contract unit price per cubic yard for the pertinent Concrete Foundation item. The payment will be full compensation for all concrete, excavation, corrugated metal pipe or forms, reinforcement steel, anchor bolts, backfill and for all material, labor, equipment, tools, and incidentals necessary to complete the work.

When concrete barrier transitions, conduit, and grounding are required, they will be measured and paid for as specified in Sections 604, 802, 803, 804, 805, 808, 816 and 818.

SECTION 802 — GALVANIZED STEEL BEAM SIGN POSTS

802.01 DESCRIPTION. This work shall consist of furnishing and installing galvanized steel beam sign posts as specified in the Contract Documents or as directed by the Engineer.

802.02 MATERIALS.

Bolts, Nuts and Washers	909.07
Galvanizing for Beams	A 123