

GENERAL NOTES

XI - 625 CABLE SUPPORT ASSEMBLY (Continued)

The messenger shall be 0.164 inches in diameter consisting of three strands of 0.075 inch copper-covered steel wires twisted in the form of a cable. Guy thimbles shall be grooved to fit the guy strand and bent to the proper radius to prevent the strand from being sharply bent. The cable grip shall have a single "U" eye bale. The grips shall be of the proper size to fit the cable and shall have a minimum rated breaking strength of 250 lbs.

The grip shall be either the "closed", or "split with rod" type.

Payment for Item 625 "Cable Support Assembly" will be made at the contract unit price per each, completely assembled in place and accepted.

XII - LOOP DETECTOR PAVEMENT CUTTING

Loop detector pavement cutting shall consist of a 1-1/4 inch or 2 inch x 1/4 inch wide saw cut in accordance with typical loop detector installation detail. The saw cut shall be filled with a joint sealer after the wire has been installed. The joint sealer shall be an elastic epoxy resin compound.

Payment for Item 625 "Loop Detector Pavement Cutting" will be made at the contract unit price per lineal foot for saw cutting and treatment including joint sealer.

XIII - 625 GROUND RODS

This item of work shall consist of furnishing and installing ground rod and cable as detailed and specified on Sheet 42.

The cable shall be exothermically welded to the top of the ground rod.

Basis of payment for this item shall be a contract unit price per each, which shall include all labor, materials and equipment required to complete this item of work.

XIV - ITEM 625, CONDUIT JACKED UNDER PAVEMENT, AS PER PLAN

This item shall consist of installing conduit of the size or sizes indicated under existing pavement and contiguous shoulders by an approved method such as "drilling" or "jacking".

The Contractor shall place the conduit with the least amount of disturbance to the existing pavement, subbase, berm pavement, or shoulders of the roadway. All push pits or any necessary excavations shall be backfilled and restored in accordance with 625.01. Measurement of the conduit shall be the actual amount of lineal feet installed under pavement and shoulders, measured in place, as accepted by the Engineer. The unit price bid for Item 625 "Conduit Jacked Under Pavement, as per plan" shall be full compensation for excavation, drilling or jacking, backfilling, compaction, restoration, and all labor, material, equipment, and incidentals necessary to complete the work as specified.

XV - 625 WEATHERHEAD AND CONDUIT RISER

The weatherhead and conduit riser shall provide a wiring raceway for signal cable from the controller to the overhead span wire.

The weatherhead and conduit riser shall consist of a weatherhead, two (2) inch conduit, two (2) inch conduit fittings and ells, and stainless steel straps as shown in detail on Page 39.

The weatherhead shall be cast aluminum or galvanized cast ferrous metal and shall prevent entry of water into the conduit.

Conduit shall be Type III as specified in 713.04. Stainless steel straps shall be 3/4 of an inch wide by .020 inch thick and shall be spaced a maximum intervals of five (5) feet.

Payment for 625 "Weatherhead and Conduit Riser" will be made at unit price bid for each weatherhead and conduit riser installation completely installed and accepted including all labor, material, equipment and incidentals necessary to perform the required item of work.

XVI - 625 COVERING OF TRAFFIC SIGNAL HEADS

All vehicular traffic signal heads erected at locations where traffic will be maintained prior to energizing of the signal, shall be covered.

The covering shall be plastic coated burlap blankets as per Item 705.06. They shall be firmly attached and completely cover the signal head without damage to the head. The covering shall be maintained in place at all times while traffic is using the area and the signal is not in operation.

Payment shall be at the unit price bid per each for Item 625 "Covering of Traffic Signal Heads" which shall be full compensation for all labor, materials and equipment required to erect, maintain and remove the covering.

XVII - 614 MAINTENANCE OF EXISTING TRAFFIC INSTALLATION

The existing traffic signal(s) shall be kept in operation until the new signal is operational. If existing items are to be incorporated into the new signal, such items shall not be reinstalled until all other new work which can be done prior to the relocation work is completed. At this time, the existing signal may be turned off. When not in operation, signal heads shall be bagged. When no signal is in operation, at the location traffic shall be maintained through the use of off duty City Police Officers.

The City of Mentor, City Engineer, shall be notified at least 48 hours prior to the interruption of the signal control at any intersection.

Signal control of the intersection shall not be interrupted during the hours of 3:00 P.M. to 9:00 A.M. on weekdays. Signals shall be inoperative no longer than six hours.

Payment will be included in the Lump Sum price bid for "Item 614, Maintaining Traffic."

XVIII - CONCRETE FOR SIGNAL SUPPORT FOUNDATION

Pole foundations shall be constructed as shown in the plans. The Contractor shall stake the longitudinal and lateral location and the elevation for the top of each foundation subject to the approval of the Engineer. The Contractor shall be responsible for the proper elevation, offset and level of each foundation. Excavations shall be made to the dimensions shown on the plans and shall be performed by means of an earth auger of the specified diameter unless otherwise directed by the Engineer. Where sub-surface obstructions are encountered, the Engineer may require the Contractor to remove the obstruction or to replace the excavated material and relocate the foundation. If caving of the foundation occurs, the Contractor shall excavate the specified depth, maintaining the sidewalls as nearly vertical as possible. No payment shall be made for any excavation, concrete or reinforcing steel used in excess of the planned quantities.

Portland Cement Concrete shall be used and shall conform with Class "C" of the Construction and Material Specifications prepared by the Department of Transportation of the State of Ohio, dated January 1, 1972. The concrete shall be placed against undisturbed soil or compacted embankment. The foundation shall have anchor bolts and conduit accurately held in position with a templet when concrete is poured. Forms shall be used for the upper portion of all foundations and no backfilling shall be permitted from the bottom to within 6 inches below ground level. No grouting of concrete shall be permitted between the foundation and the steel pole. The poles shall be installed and adjusted to the proper rake so that the weight of the signal installation will not cause the poles to be off vertical alignment.

Payment for Item 816 "Concrete for Signal Support Foundation" will be made per cubic yard for each foundation constructed and shall include concrete, reinforcing steel, excavation and backfill and installation of conduit ells and anchor bolts.

XIX - CONCRETE FOR CONTROLLER AND PEDESTAL FOUNDATION

Controller and pedestal foundations shall be constructed as shown on the plan. The Contractor shall stake the longitudinal and lateral location and elevation of the top of each foundation subject to the approval of the Engineer. The Contractor shall be responsible for the proper elevation, offset and leveled each foundation. Excavations shall be made to the dimensions shown on the plans. Where sub-surface obstructions are encountered, the Engineer may require the Contractor to remove the obstruction or to replace the excavated material and relocate the foundation. If caving of the excavation occurs, the Contractor shall excavate to the specified depth, maintaining the sidewalls as nearly vertical as possible. No payment shall be made for any excavation or concrete used in excess of the planned quantities.

Portland Cement Concrete shall be used and shall conform with Class "C" of the current Construction and Material Specifications prepared by the Department of Transportation of the State of Ohio. The concrete shall be placed against undisturbed soil or compacted embankment. The foundation shall have anchor bolts and conduit accurately held in position with a templet when concrete is poured. Forms shall be used for the upper portion of foundations and no backfilling shall be permitted from the bottom to 6 inches below ground level.

Concrete for service step in front of controller as shown in detail on sheet number 40 will be included in the above described concrete.