

**SECTION 11.05
TRAFFIC SIGNALS**

11.05.01--Description: This item shall consist of furnishing and installing a traffic control signal, of the type specified, at the location shown on the plans or indicated by the Engineer and in conformity with these specifications.

11.05.02--Materials: The materials for this work shall conform to the requirements of Article M.16.06.

11.05.03--Construction Methods: Each completely assembled traffic signal unit shall normally be installed as follows:

Each traffic signal head shall consist of the appropriate number of sections and faces, terminal blocks and mounting equipment, as indicated. Signal heads shall be erected vertically in accordance with the specific type of mountings shown on the installation plan. A balance adjuster shall be installed between the span wire clamp and the wire entrance to provide a plumb appearance for the signal assemblies that are unbalanced.

No signal head shall be erected until the controller for that signal is installed.

All traffic signals shall be mounted in the manner as shown on the plans, using fittings and attachments standard to the trade.

When traffic signals are span-mounted, they shall be installed so the lowest part of the signal head is not less than 4.9 m or more than 5.2 m above the pavement grade at the center of roadway.

If couplings are used in "nipping down" a traffic signal or in the construction of signal heads, they shall be drilled, tapped, and furnished with a set screw, or spot welded to eliminate twisting. Entrance fittings and locking nuts shall also be furnished with set screws to eliminate twisting. Signal ways consisting of more than three sections shall be assembled with appropriate numbers of one way - one section units.

When adding sections to existing or new signal heads the contractor shall provide all necessary mounting equipment, including new brackets if required, to adapt to the existing heads.

11.05.04--Method of Measurement: The quantity to be paid for under this item will be the number of completed, installed and accepted traffic signal units of the type specified.

11.05.05--Basis of Payment: This work will be paid for at the Contract unit price each for "Traffic Signal" of the type specified which price shall include all materials, housing, brackets, conduit, visors, tunnel visors, louvers, back plates, optical unit, lamp socket, lens, mountings, balance adjuster, paint, painting and necessary equipment, tools, labor and work incidental thereto.

No direct payment will be made for furnishing and installing visors or lenses required on existing traffic signals, but the cost thereof shall be included in the costs of the various traffic signal items.

Pay Item	Pay Unit
Traffic Signal (Type)	EA.