


TO:	ENGINEERING INSTRUCTION		
	NEW YORK STATE DEPARTMENT OF TRANSPORTATION		
	SUBJECT: SUPPLY OF STATE OWNED TRAFFIC SIGNAL POLES ON CONTRACT		
	Subject Code: 7.27-1-680		
Distribution:	31 Main Office	33 Regions	34 Special
APPROVED:	 ROGER H. EDWARDS (Deputy Chief Engineer) Fac. Des. Div.		Code: <u>EI 86-32</u> Date: <u>9/12/86</u> Supersedes:

R. M. GARDESKI (Director) Traffic and Safety Division

There have been some instances where it was difficult to get span wire traffic signal poles delivered to the contractor in a timely manner. It has been determined that the current pole supply procedure of having the Contractor furnish and install poles has resulted in unacceptable delays and that State supply of span wire signal poles from existing regional stocks could rectify this situation in some instances.

Accordingly, if confronted with such a situation, beginning with the letting of 2/19/87 (PS&E 11/27/86) span wire traffic signal poles can be supplied to contractors by the State under the attached specification. When this is done, the designer should determine the design load and pole length for each pole in accordance with EI 83-38 and EI 83-39. This information should then be supplied to the Regional Traffic Engineering Group during the preliminary design stage of the project. The Regional Traffic Group will then earmark the appropriate traffic signal poles that will be used and will verify that the required poles will be available to the contractor from regional supplies. If the required traffic signal poles are not available from regional supplies, the attached item and this procedure cannot be used and it will be necessary to include the poles to be supplied by the Contractor in the normal contract items. The Designers shall make every effort to verify that signal pole lengths are appropriate for the actual field conditions.

The FHWA has approved the use of this specification on federal-aid projects for a two year trial period. FHWA approval is contingent on the following conditions. The Main Office Traffic and Safety Division will be responsible for ensuring that the FHWA's requirements are met.

1. Use of this specification should be limited to projects where early signal installation is critical to the orderly construction of the project. When a clear need for early signal installation cannot be identified, this specification should not be used. Any region wishing to use the specification must submit justification for its use to both the Main Office Traffic and Safety Division and the Final Plan Review Bureau.

2. In order to properly account for the cost of the state supplied poles, the Department must advise the FHWA when Department supplied signal poles will be used on a specific federal-aid project. When using this specification, on both CA and non CA projects, the Regional Design Group must, in accordance with EI 81-10, submit a TE-200 showing the number and cost of state supplied poles.

Subject: SUPPLY OF STATE OWNED TRAFFIC SIGNAL POLES ON CONTRACTS

3. The Department must monitor, evaluate and report to the FHWA on the effectiveness of the procedure. The Regional Traffic Groups must, at the request of the Main Office Traffic and Safety Division, provide documentation on the effectiveness of the procedure. Overall economics, reductions in project delays and other advantages as well as problems and disadvantages should be included in the evaluation report.

Since the FHWA has approved this specification only for a trial period, it is critical that the Regions provide the Traffic and Safety Division with the appropriate information relevant to both the justification for using this specification and the evaluation of the procedure. Failure to provide this documentation thoroughly and promptly could result in the withdrawal of FHWA support for this procedure at the end of the trial period.

EI 79-37 prohibited the use of embedded traffic signal poles. The prohibition is hereby revised to permit an embedded pole if it is obtained from existing regional supplies. The foundation details are attached to the attached specification. If a permanent record of the foundation is required, the foundation details will have to be drafted with the project plans.

These specifications may be used starting with the letting of February 19, 1987.

RHE:RMG:MT:LWB:RB:DMR

File No. 25

Disk No. 2

15680.9001 Install Steel Span Wire Traffic Signal Pole (Embedded)-St Supplied
15680.9002 Install Steel Span Wire Traffic Signal Pole (Anchor Base)-State
Supplied

Description

Under these items the contractor shall install steel traffic signal poles of various lengths at locations shown on the plans. The State shall supply the steel traffic signal poles and anchor bolts for the anchor base type pole.

Materials

The State shall supply the steel traffic signal pole (embedded) and/or the steel traffic signal pole (anchor base) with anchor bolts and anchor bolt nut covers. All weatherheads and conduit fittings shall be furnished by the Contractor and installed by him on the poles in accordance with the plans and specifications and shall conform to the requirements for Class 1 Rigid Metal Conduit of Section 723-20 of the Standard Specifications. All welds shall conform to the requirements of the Steel Construction Manual.

Construction Details

The requirements of Section 680-3.11 of the Standard Specifications shall apply with the following modifications:

1. The contractor's request for delivery of the traffic signal poles supplied by the State shall be made, in writing to the engineer, ten working days prior to anticipated delivery date. The traffic signal poles will be supplied to the contractor at the regional traffic signal pole supply location indicated herein. The contractor will be responsible for transportation of the traffic signal poles from the supply location to the job site.

The Contractor shall verify that he has received all material to be supplied by the State. After verification, material lost, damaged, or stolen shall be repaired, or replaced at the Contractor's expense.

2. The contractor shall supply and install coupling to accept LB's for all poles which will receive controller cabinets and as directed by the Engineer.
3. The contractor shall supply and install weatherheads, service brackets and span wire mounting hardware on all steel poles erected as shown in the Standard Sheets.
4. The steel traffic signal poles shall be erected as shown on the plans, and Standard Sheets. The foundation details for embedded poles are attached. Foundations for anchor base poles shall be in conformance with the standard sheets for traffic signal installations.

5. All damage to State supplied poles and anchor bolts subsequent to delivery to the Contractor shall be the responsibility of the Contractor to remedy.

Method of Measurement

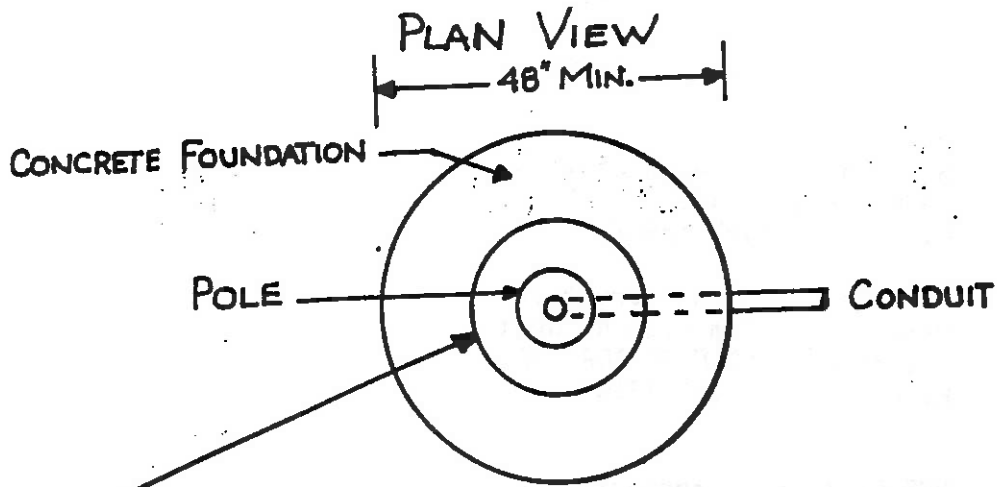
The quantity shall be measured as the number of steel traffic signal poles installed.

Basis of Payment

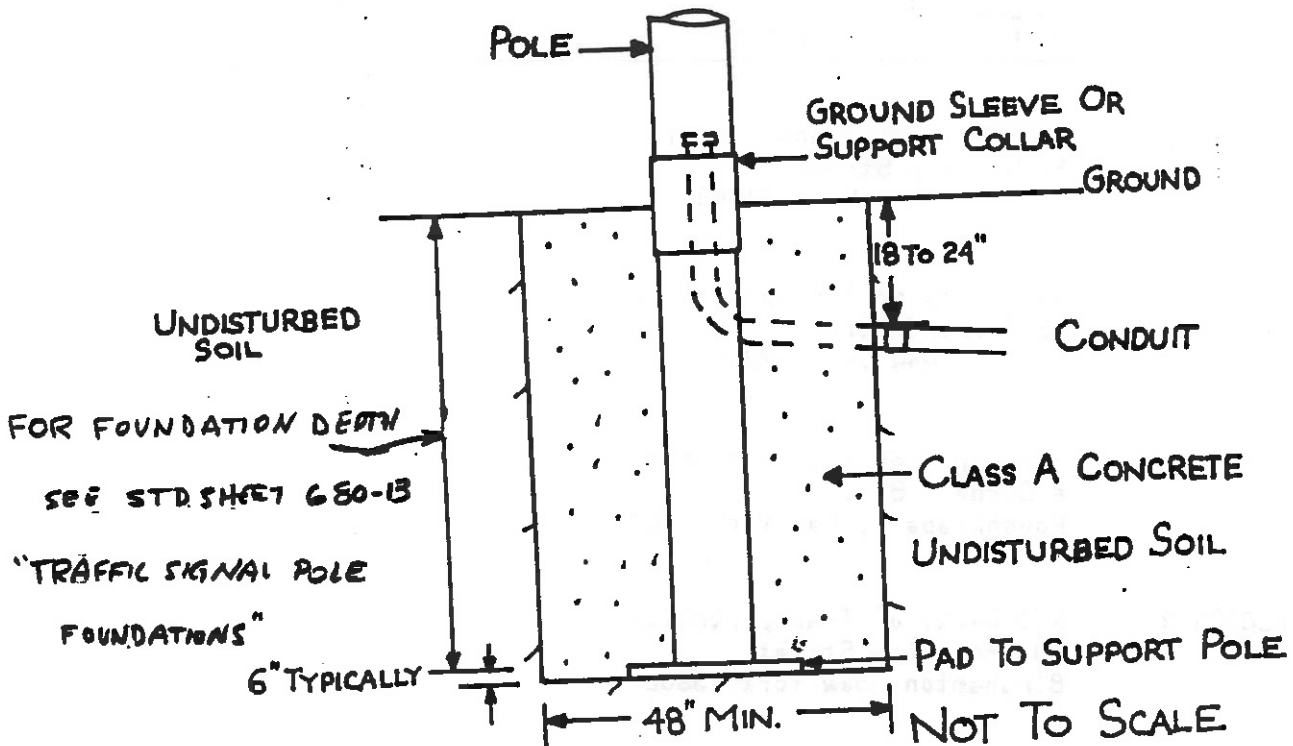
The unit price bid for each steel traffic signal pole installed shall include the cost of all labor, materials (except those supplied by the State), transportation and equipment necessary to complete the work except the installation of traffic signal pole foundations shall be paid for under the Pole Excavation and Concrete Foundation item.

REGIONAL TRAFFIC SIGNAL POLE SUPPLY LOCATIONS

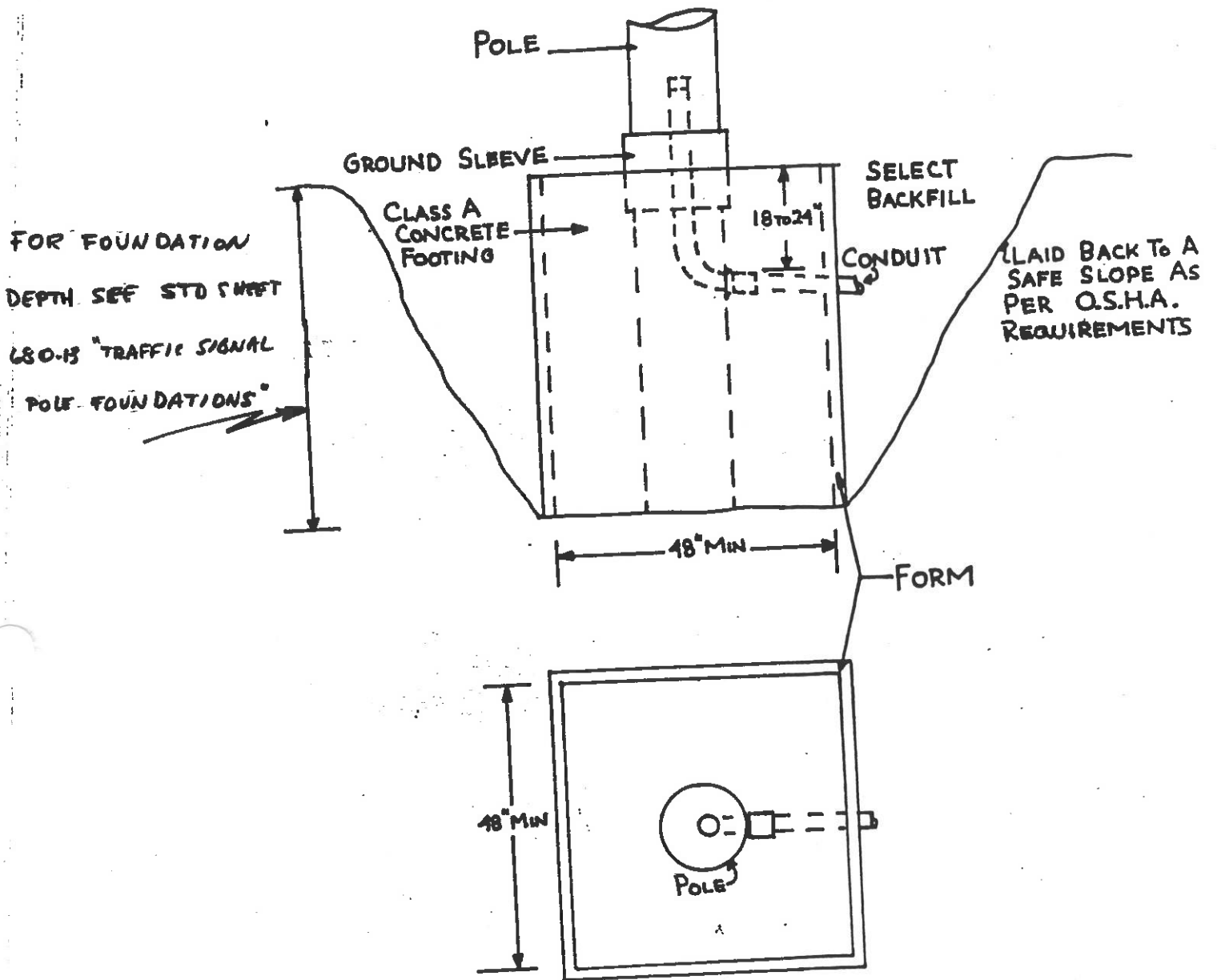
- REGION 1 NYS Dept. of Transportation
21 Ninth Street
Waterford, New York 12188
- REGION 2 NYS Dept. of Transportation
2436 Chenango Road
Utica, New York 13502
- REGION 3 NYS Dept. of Transportation
Olin Bldg., Camillus Airport
Cessna Dr. "OFF POTTERY RD."
Warners, New York 13164
- REGION 4 NYS Dept. of Transportation
Monroe Avenue
Pittsford, New York 14534
- REGION 5 NYS Dept. of Transportation
75 Evans Street
Hamburg, New York 14075
- REGION 6 NYS Dept. of Transportation
30 W. Main Street
Hornell, New York 14843
- REGION 7 NYS Dept. of Transportation
98 Raymond Street
Malone, New York 12953
- REGION 8 NYS Dept. of Transportation
4 Burnett Blvd.
Poughkeepsie, New York 12603
- REGION 9 NYS Dept. of Transportation
73 Frederick Street
Binghamton, New York 13902
- REGION 10 NYS Dept. of Transportation
325 West Main Street
Babylon, New York 11702



CONCRETE PAD OR METAL PLATE MAY BE INSTALLED AT THE BOTTOM OF THE EXCAVATION TO MINIMIZE POLE SETTLEMENT



Embedded Pole Foundation in Stable Soil.



NOT TO SCALE

Embedded Pole Foundation in Unstable Soil.