

## **SECTION 630**

### **CONDUIT**

The requirements of Section 630 are expanded and modified as follows:

#### **630-2 General Requirements,** are expanded as follows:

Polyvinyl chloride (PVC) plastic conduit shall be used for all new fiber optic service connections between the controller cabinets and the fiber optic service points. These connections shall be underground and the PVC conduit used shall be as stated in contract documents, (Schedule 40 Minimum).

All references to fiberglass reinforced epoxy, bituminous fiber or other material as specified are to be deleted from this project.

The conduit between the controller cabinets and the fiber optic service points shall not contain more than the equivalent of three (3) quarter bends or 270 degrees including the termination bends. The maximum distance between pull boxes shall be three-hundred ninety (390) feet. Bends in the fiber optic conduit shall have a minimum radius of three (3) feet.

#### **630-3.2 Conduit size,** is amended as follows:

All conduit shall be made of intermediate metal or polyvinyl chloride (PVC) plastic. All PVC conduit used in cabinet bases shall be 2-inches minimum in diameter used for loops, signals and pedestrian signals, conduit used for power service only shall be 1 inch in diameter, rigid threaded galvanized steel, unless otherwise specified. Conduit for loose tube duct/aerial cable shall be installed for the complete project from patch panel to patch panel. The fiber optic cable shall be installed along a route consisting of underground conduit and aerial poles. If a project calls for new sidewalk to be installed in that project, then one 4-inch conduit will be installed in new sidewalk construction with pull boxes located at a maximum of 390 foot intervals. Should there be sidewalks installed both sides of the roadway, then only one sidewalk shall have the fiber optic conduit installed beneath it. The fiber optic duct bank shall be along the same side of the roadway in all sections unless directed to change sides of the roadway by the engineer. Should this be necessary, then connecting conduit across the roadway shall be installed. The size of the pull box shall be in accordance to pull box sizes as defined in Section 635 of these TSP's.

#### **630-3.5 Conduit Termination's,** is expanded as follows:

Conduit entries into the fiber optic pull boxes shall be done in an industry approved manner. If the fiber optic service provider is not the Maintaining Agency, then the Contractor shall not remove the cover of the pull box unless a representative of the service provider is on-site to monitor and answer any question that the Contractor may have in reference to said location.