Part 1 - General

1.01 Description

.1 This Section is supplemental to OPSS MUNI 415 and shall supersede conflicting specifications within OPSS MUNI 415.

1.02 Related Specification

- .1 Construction Specification Section 01330 Submittal Procedures
- .2 Construction Specification Section 02240 Dewatering
- .3 Construction Specification Section 02316 Rock Excavation
- .4 OPSS MUNI 415 Construction Specification for Pipeline Installation by Tunnelling

1.03 Stability of Excavation

- .1 Employ such construction methods, plant, procedures and precautions necessary to ensure that excavations are stable, free from disturbance and dry.
- .2 Such construction methods may include, but are not limited to:
 - .1 Tight timber, concrete and/or steel primary liner.
 - .2 Ground water control systems employing well points, deep wells, eductors or compressed air.
 - .3 Free water control systems employing drains, pipes and pumps.
 - .4 Soil stabilization methods employing cement grouting, chemical grouting or chemical freezing.
- .3 Employ such construction methods, plant and materials necessary to ensure that migration of soil material into tunnel or shafts from adjacent ground and subsidence shall not take place.

1.04 Basis of Payment

.1 No extra payment shall be made for stockpiling or double handling of excavated materials.

- .2 No extra payment shall be made for primary lining left in place.
- .3 No extra payment shall be made for extra excavation needed on account of soil heaving, subsidence or collapse of material into tunnel or shaft.

Part 2 - Products

2.01 Materials

- .1 Reference Region of Durham Approved Manufacturers' Products List, on *The Road Authority* website at www.roadauthority.com.
- .2 All tunnelling materials shall be in accordance with Contract Drawings and Special Provisions.

Part 3 - Execution -Not Applicable

END OF SECTION