

## **ITEM 09560.36 M - PRECAST CONCRETE AND STONE MASONRY WALL**

### **DESCRIPTION:**

This work shall consist of fabricating and installing a precast reinforced Portland cement concrete and stone masonry wall of the type indicated on the plans in accordance with these specifications and in a manner approved by the Engineer.

### **MATERIALS:**

**A. Precast Concrete Units** - Materials, fabrication, curing, repair, sampling & testing, and shipping of the Precast Concrete Wall Sections shall meet the requirements of Section 704-03 of Standard Specifications. Working drawings shall be prepared by the precast manufacturer in accordance with procedural directive of the Materials Bureau. Complete and accurate working drawings shall be submitted to the Regional Director for approval.

**B. Stone Masonry** - Material requirements of Section 560-2 shall apply.

### **CONSTRUCTION DETAILS:**

**A. Inspection, Storage and Handling of Precast Concrete Wall Sections** - The sections will be inspected at the construction site to determine any damage during shipment and for conformance to the dimensional tolerances. An additional inspection will be made prior to placement of precast concrete wall sections to determine any damage during storage.

### **B. Installation of Precast Concrete Wall Sections:**

1. Excavation and Backfill - The requirements specified in Section 206 - Trench, Culvert and Structure Excavation, shall apply.
2. Placement of Precast Concrete Wall - Sections shall be installed, true to line and grade on prepared & compacted subbase, as specified in the contract plans, to form a continuous wall.
3. Joints - Precast wall sections shall be installed and sealed as per the manufacturer's recommendation. The material used shall be on the Department's approved list. Joints shall be fully drawn together and connected with dowels as shown on the working drawings.

**C. Repair of Damaged Sections** - Precast concrete wall sections that are damaged or disturbed through any cause prior to acceptance of the contract shall be repaired, realigned or replaced as directed by the Engineer and at the contractor's expense. Retaining wall sections which, as determined by the Engineer, cannot be satisfactorily repaired, or do not meet dimensional tolerance, will be rejected and shall be replaced with acceptable sections at the contractor's expense.

**D. Stone Masonry** - Stone Masonry shall be applied to the precast concrete wall as shown on the plans. All requirements and provisions of the Section 560-3.04 shall apply.

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### **METHOD OF MEASUREMENT:**

This work shall be measured as the number of meters, to one tenth of the meter, of the precast concrete wall with the applied stone masonry, actually furnished and installed, as specified in the contract documents. The measurements will be taken along the centerline of top of the wall.

### **BASIS OF PAYMENT:**

The unit price bid shall include the cost of furnishing all labor, materials and equipment necessary to satisfactorily complete the work.

Progress payments for fabricating and installing the precast reinforced Portland cement concrete and stone masonry wall will be made as follow:

1. 50% of the unit price bid for the computed quantity of the wall may be made after the precast concrete wall sections have been placed, connected, and backfilled properly.
2. The balance 50% of the unit price bid for the wall will be paid upon the completion of the stone masonry installation, curing and corrected work thereon.

Excavation, backfill, bedding, and installation of timber log on top of the wall and installation of the wooden gate, as specified on the plans, shall be paid for separately.