

## **ITEM 10555.21 M - SEISMIC SHEAR BLOCK**

### **DESCRIPTION**

This work shall consist of placing concrete seismic shear blocks on the top of the existing pile cap as indicated on the Plans.

### **MATERIALS**

The shear block shall be Class A concrete and conform to the requirements of Subsection 555 - 2.

The reinforcement shall be epoxy coated and shall conform to the requirements of subsection 556 - 2.

The non-shrink grouting material shall conform to the requirements of Subsection 701 - 05.

### **CONSTRUCTION DETAILS**

The installation of the concrete shear block shall conform to the requirements of Subsection 555-3 and shall be located as shown on the Plans.

The placement of the reinforcement shall conform to the requirements of Subsection 556 - 3 and as shown on the Plans. The reinforcement size and shape required as shown on the Plans.

The Contractor shall to the best of his ability locate the position for the reinforcement before drilling to avoid damaging the existing reinforcement in the pilecap.

The reinforcement shall be drilled and grouted as shown on the Plans. Templates or other suitable means, shall be used to keep the reinforcement in correct vertical position during grout placement. The holes shall be drilled to a diameter 25 mm greater than the diameter of the reinforcement to be grouted. The reinforcement shall be set immediately after the holes are drilled using the following procedure:

- A. Clean Holes.
- B. Place reinforcement in holes to verify proper fit and placement.
- C. Remove reinforcement.
- D. Brush sides of holes with concrete grout material.
- E. Fill hole to about two-thirds depth with concrete grout material.
- F. Insert reinforcement, using uniform, even pressure, or light blows with hammer, until the required penetration depth is reached.
- G. Add concrete grouting material as required to fill the holes to the top, or remove excess material.

### **METHOD OF MEASUREMENT**

The work will be measured as each seismic shear block satisfactorily completed.

### **BASIS OF PAYMENT**

The unit price bid includes the cost of furnishing all labor, materials and equipment necessary to complete the work described in this Specification, Plans or as directed by the Engineer.