SECTION 03 4800

PRECAST CONCRETE SPECIALTIES

PART 1 - GENERAL

1.1 SUMMARY

A. Includes But Not Limited To:
   1. Furnish and install precast concrete site elements as described in Contract Documents.
   2. Furnish and install concrete bulkheads for suspended floor system as described in Concrete Documents.

1.2 REFERENCES

A. American Society For Testing And Materials:
   1. ASTM A 185-02, 'Standard Specification for Steel Welded Wire Fabric, Plain, for Concrete.'
   2. ASTM A 615-04b, 'Standard Specification for Deformed and Plain Steel Bars for Concrete Reinforcement.'
   3. ASTM C 33-03, 'Standard Specification for Concrete Aggregates.'

PART 2 - PRODUCTS

2.1 MATERIALS

A. Precast concrete:
   1. Cement: ASTM C 150, Type II.

B. Reinforcing:
   1. Bars: ASTM A 615, Grade 60.

C. Cap And Joint Covers: 30 lb asphalt impregnated felt.

D. Mastic: Asphalt based plastic roofing cement.

2.2 FABRICATION

A. General:
   1. 3000 psi concrete minimum.
   2. Chamfered edges.
   3. Smooth finish free from pits and rock pockets.

B. Splash Blocks:
   1. 16 inches 400 mm wide by 24 inches 600 mm long by 3 inches 75 mm high.
   2. Formed water trough.
   3. Cast in reinforcing mesh.

C. Bulkheads:
   1. 1-1/2 inches 38 mm thick by 12 inches 300 mm wide by convenient length, but preferably between 2 and 4 feet 600 and 1200 mm.
PART 3 - EXECUTION

3.1 INSTALLATION

A. Splash Blocks: Set level in planting areas and centered under each downspout.

B. Bulkheads:
   1. Provide continuous bulkheads at perimeter of void spaces under grade beams to maintain void spaces and prevent them from becoming filled with earth and other material.
   2. Place bulkheads immediately after removal of foundation forms, completion of concrete patching and waterproofing where required, and cleaning out of void spaces.
   3. Extend bulkheads into earth at bottom with 3 inch 75 mm lap at concrete member at top. Place bulkheads so they lean toward concrete member at top to prevent them from spreading away from member upon placement of fill. Cover vertical butt joints with 6 inch 150 mm wide strip of 30 lb felt cemented at top with specified mastic. Cement continuous 4 inch 100 mm wide strip of 30 lb felt to concrete member above bulkhead so strip overlaps joint between beam and bulkhead to prevent earth from sifting into void spaces.

END OF SECTION