

## SECTION 03400

### PRECAST CONCRETE

#### PART 1 GENERAL

##### 1.01 SUMMARY

- A. This section addresses precast concrete storm drainage products.
- B. Related Work Specified Elsewhere
  - 1. Concrete storm sewer pipe: Section 02615.
  - 2. Concrete storm sewer manholes: Section 02605.
  - 3. Cast-in-place concrete, formwork, and reinforcement for cast-in-place concrete: Section 03300.
- C. Measurement and Payment Procedures
  - 1. For public funded capital improvement projects, measurement and payment procedures will be determined on a project by project basis.
  - 2. For privately funded development projects, Owner will determine measurement and payment requirements.

##### 1.02 REFERENCES

- A. Not Used

##### 1.03 SUBMITTALS

- A. See Section 02615 and Section 02605 for required submittals for precast concrete storm sewer pipe and manholes, respectively.
- B. Shop Drawings: for special precast concrete items submit shop drawings showing dimensions, layout and details of reinforcement, method of manufacture and installation, openings, joints, and embedment items.

##### 1.04 QUALITY ASSURANCE

- A. See Section 01010 – 1.08.

##### 1.05 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Delivery and Storage
  - 1. Materials delivered to the site shall be inspected for damage, unloaded, and stored with a minimum of handling. Materials shall not be stored directly on the ground. The inside of pipes and fittings shall be kept free of dirt and debris. The Contractor shall have a copy of the manufacturer's instructions available at the construction site at all times and shall follow these instructions unless directed otherwise by the Inspector.
- B. Handling
  - 1. Materials shall be handled in a manner that ensures delivery to the final position in sound, undamaged condition. Precast products shall be carried to the final position, not dragged.

## **PART 2 PRODUCTS**

### **2.01 PRECAST CONCRETE PRODUCTS**

- A. Precast concrete manholes and appurtenant items shall be in accordance with Section 02605, Manholes.
- B. Precast concrete storm sewer pipe and appurtenant items shall be in accordance with Section 02615, Concrete Storm Pipe.
- C. Formwork, reinforcement, and concrete for other precast concrete storm drainage structures shall be in accordance with Section 03300, Cast-In-Place Concrete.

## **PART 3 EXECUTION**

### **3.01 INSTALLATION**

- A. After placement and installation of precast sections.
  - 1. Remove lifting straps and lugs flush with the concrete surface as accepted by the City.
  - 2. Fill all lifting holes with non-metallic, non-shrink grout to form a water tight seal.

**END OF SECTION**