

DIVISION 3

CONCRETE

Scope of Work

Provide, install and test all concrete work and appurtenant work in complete accordance with the Drawings and Specifications.

Contractor's Duties

Except as specifically noted, provide and pay for all labor, materials, equipment, tools, machinery, water, heat, other facilities and services necessary for proper execution and completion of Work.

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SECTION 03319CONCRETE CRADLES, ARCHES, ENCASEMENTS & THRUST BLOCKSPART 1 - GENERAL1.1 DESCRIPTION

- A. Work Included: Furnish and construct cradles, arches, encasements, and thrust blocks for pipes in the location(s) and of the dimension(s) and shapes required to rigidly support pipes.

PART 2 - PRODUCTS2.1 MATERIALS

- A. Concrete Mixture:
1. Minimum strength at 28 days (psi) - 3000
 2. Maximum size, coarse aggregate (inches) - 1-1/2
 3. Percent air - 5
 4. Maximum slump (inches) - 3
 5. Minimum cement factor (pounds) - 564
 6. Maximum water/cement ratio - 253
- B. Aggregates - ASTM C33
- C. Cement - Portland cement ASTM C150 Type I
- D. Reinforcement - ASTM A615, Grade 60

PART 3 - EXECUTION3.1 INSTALLATION

- A. Construct cradles, arches, encasements, and thrust blocks the full width of the trench and/or as shown on the Drawings.
- B. Secure pipe to prevent movement and floatation during the placement of the concrete.
- C. Place polyethylene sheeting (6 mils, minimum thickness) against all fittings, valves, etc. prior to placement of concrete for thrust blocks. Keep concrete clear of bolts and joints.

END OF SECTION