PART 1 - PRODUCTS

1.1 PRECAST CONCRETE CURBING

A. Precast concrete curb unit shall consist of casting conforming to the size and dimensions shown on the plans. Straight curb shall be cast in standard lengths of six (6) feet. Straight and curved curb may be cast in lengths of not less than (3) three feet where needed and as directed. Curb on a radius of 100 feet or less shall be cast in radius forms to the correct radius (radius measured to the outside face of the curb).

B. Curb shall be made by Portland Cement Type I or III, conforming to Federal Specifications SS-C192a, or to Section M4 of the “Standard Specifications of Highways and Bridges” of Commonwealth of Massachusetts Department of Public Works. Forms shall be made of metal or concrete (wood not allowed), to tight, rigid construction with true surfaces.

C. Concrete mix shall be made of maximum 3/4” aggregate, with a design strength of 5,000 psi at 28 days. An air entraining agent, either "Darex" by W.R. Grace Company, "Aerolith" by Sonneborn Building Products, "MB-VR" by Master Builders Company, "Sealtight Air Entraining Agent" by W.R. Meadows, or approved equal, shall be added to the mixer in accurately proportioned amounts to give air content to the concrete of not less than 3 percent and not more than 6 percent by volume. A high range water reducing agent (superplasticizer) such as Master Builders Pozzolith 400-N, Mighty 150 or approved equal shall be added to the mixer in accurately proportioned amounts to meet design strength requirements and maintain a smooth, dense surface on the curb units.

D. Upon removal from the forms, the top and 8” of the face shall be rubbed with a carborundum stone to fully remove any cement enamel finish. No cement may be used in this process. Next to a mixture of fine sand, cement and water shall be thoroughly ground into the surface of the curb with a carborundum stone until the resulting paste fills any imperfections left by the form. A cork float shall then be used to pick up excess paste. The final finish should resemble limestone in appearance.

1.2 GRANITE CURBING

A. New Granite Curb shall be a structural granite conforming to ASTM C615, Class I Engineering Grade, suitable for curbstone use.

1. New curb shall match salvaged existing curb in color, finish, and general appearance, free from seams which impair structural integrity, and with percentage of wear less than 32%, as determined by ASTM C131. Provide sample suitable for comparison with salvaged curb for approval by Landscape Architect and Owner.

2. New curb material shall conform to M.H.D. specifications for type VA4 curbing.

3. Typical length of new curb sections shall be 8’-0”. Minimum length of new curb sections shall be 4’-0”.

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B. Cement Mortar

1. Mortar for pointing joints between curbstones shall be a cement mortar composed of one part portland cement and two parts sand, by volume with sufficient water to form a workable, stiff mixture.

END OF SECTION