NOTES

BIDDERS shall examine a lump-sum for all work within the "Culvert Limits." The includes: (a) the culvert, (b) sidewalks, (c) gutters over the culvert, (d) curb, (e) curb armor if specified on the improvement plan, and (f) those portions of the pavement where the culvert top slab is constructed to pavement grade.

The "Culvert Limits" are shown and labeled on the improvement plans.

CONCRETE

Exception: When the culvert is to be constructed within the limits of a proposed sidewalk or is contiguous to such a sidewalk, the top of the culvert shall be poured monolithic with the sidewalk, using the same class of concrete as in the sidewalk.

CURB attached to the culvert and within the "Culvert Limits" shall be type B unplastered curb.

CURB per culvert shall be poured monolithic with curb.

DIMENSIONS: All dimensions are variable and are shown on improvement plans.

EXPOSED: All surfaces within the "Culvert Limits" shall conform to slope, grade, color, finish, and scoring to adjoining improvements. Where no sidewalk exists, the top slab in the sidewalk area shall be finished to conform to standard sidewalk slope and finish, and scoring lines shall conform as nearly as possible to 20-inch squares.

FORMS: Curvature of all bends in culvert and of the side walls at inlets and outlets shall be made by curved forms and shall not be made by plastering Curved metal forms shall not be used.

GALVANIZED: Steel angle assembly only shall be galvanized.

GUTTER: Exterior curb shall be poured monolithic with curb.

INVERT: shall be troweled and re-troweled to produce a hard, polished surface of maximum density and smoothness. The V-shape specified for invert shall extend to within 3 feet of inlets and outlets, from which points invert shall be tapered to join the gutter.

KEY-HOLDS of a type approved by the Engineer shall be used along the invert where sidewalks and invert are poured separately, and in the top of sidewalks when steel bar and reinforcing used in the top slab.

MANHOLES shall be constructed in culvert at locations shown herein, unless other locations are shown on the improvement plans. To make manholes in street area and driveways to the finished surface, the Contractor shall vary the height of the concrete manhole and shall rest the manhole frame supports upon the walls. For building of manholes see under Manholes below.

RAILS: Rail-supports for culvert manholes, and rails when used, shall be set firmly upon the rails by bedding with Class A mortar, or by the use of steel shims not less than 1/2 inch by 6 inches.

REINFORCING FABRIC: Over rails shall be electrically welded wire fabric, of 14-gage wires with 4-inch by 4-inch spacing, or equivalent. Fabric shall be as wide as the length of rails and shall not be shorter than the surface than 1-inch. Fabric shall be held in position during placing of concrete in a manner acceptable to the Engineer.

REINFORCING STEEL: Either bars or rails at the option of the Contractor, unless otherwise specified shall be in accordance with tables herein. Clearance of bars shall be 1 inch from top and bottom of top slab and 1 inch from top of bottom slab. Spacing of transverse reinforcement shall be measured along center line of culvert.

SHAMS: See under Rails.