NOTES

1. Care shall be taken to avoid placing manholes in wheel paths.

2. Manhole Type B may be either precast or cast-in-place. Precast manholes shall meet the requirements of ASTM C-377. Prior approval of the shop drawing will be required on precast units with floor and/or pipe openings.

3. Cast-in-place manhole Type B shall conform to Section 600 - Minor Structures of the Current ITD Standard Specifications for Highway Construction. Cast-in-place manholes shall have 6" walls and minimum 8" floors. The metal reinforcement used on the walls and floors shall be No. 4 bars. All reinforcement shall have a minimum concrete cover of 2" and/or 3" cast against earth.

4. All connections and broken areas shall be grouted smooth to form a water-tight manhole. Mastic sealants, gaskets, used on precast sections/construction joints shall conform to AASHTO and ASTM requirements.

5. Bends in the main sewer shall be made by forming curved channels within the manhole. The inside of the top of the lateral pipe may not be lower than the inside top of the manhole. When the invert of the lateral pipe falls below the 1" per foot minimum slope line, the channel shall be formed from the lateral pipe to the main sewer.

6. The concrete manhole lids shall be designed for AASHTO H-25 live loads.

7. When manhole depth is greater than 4'-0" install manhole steps. The normal step-to-step spacing is 12" and the step protrudes from the manhole wall 4".

8. Use of a plastic manhole frame support, i.e. Whirly-Gig, or comparable device is an acceptable construction option. For further information refer to Standard Drawing 605-13.