NOTES:

1. REINFORCED PRECAST CONCRETE MANHOLES SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF ASTM C-478 AND:
   A. SHALL BE DESIGNED FOR AASHO H-20 LOADING.
   B. CONCRETE SHALL BE COMPACTLY VIBRATED, CENTRIFUGALLY SPUN, OR MECHANICALLY TAMPERED.

2. SEWER MAINS ARE TO BE LAYED THRU THE MANHOLE WHERE POSSIBLE AND USED AS A FORM FOR THE INVERT. THE TOP 1/2 DIAMETER OF THE PIPE IS TO BE BROKEN OUT TO A NEAT LINE. BROKEN EDGES SHALL BE PLASTERED SMOOTH WITH CEMENT MORTAR.

3. CONCRETE BASE SHALL BE OF CLASS "A" CONCRETE AND PLACED IN ONE OPERATION. CONCRETE INVERTS SHALL BE TRUE TO GRADE AND ALIGNMENT AND FINISHED WITH A SMOOTH SURFACE. SPECIAL CARE SHALL BE USED IN FORMING ALL CHANNELS TO FACILITATE THE FLOW OF SEWAGE.

4. SHALLOW MANHOLES AS SHOWN HEREON TO BE INSTALLED WHEN DEPTH TO PIPE SHELF IS LESS THAN 5' FROM FINISH STREET GRADE.

5. SEE DRAWINGS SB-61 FOR DETAILS AND INSTALLATION OF MANHOLE COVER AND FRAME.

6. MANHOLE STEP (ONE STEP ONLY) SHALL BE EITHER CAST IN PLACE OR M.A. INDUSTRIES STEEL REINFORCED COPOLYMER POLYPROPYLENE PLASTIC DRIVE-IN STEP. INSTALLATION TO BE BY MANHOLE MANUFACTURER. STEP ORIENTED 180° FROM MANHOLE OUTLET. 5" STEP SHALL BE CAST IN PLACE TO BE USED AS CLEANSING HOOK AND SHALL BE PLACED 6" MIN AND 12" MAX FROM TOP OF SHELF.

SECTIONAL ELEVATION A-A

BASE PLAN

MANHOLE STEP DETAILS

USED AS CLEANSING HOOK
(ONE STEP ONLY, SEE NOTE 6)