NOTES:
1. PRECAST REINFORCED CONCRETE MANHOLES SHALL CONFORM TO APPLICABLE REQUIREMENTS OF ASTM C-478 AND:
   A. SHALL BE DESIGNED FOR ASHRAE P-20 LOADING.
   B. CONCRETE SHALL BE COMPACTLY VIBRATED, CENTRIFUGALLY SPUN, OR MECHANICALLY TAMPED.
2. SEWER MANHOLE ARE TO BE LAYED IN THE MANHOLE WHERE POSSIBLE AND USED AS A FORM FOR THE INVERT. THE TOP 1/2 DIAMETER OF "HE PIPE IS TO BE BROKEN OUT TO 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 INERTS SHALL BE 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. ALL MANHOLE TOPS SHALL BE INSTALLED WITH THE MANHOLE COVER OVER THE UPSTREAM INLET, EXCEPT AS OTHERWISE SPECIFIED.
5. SEE DWG SB-61 FOR DETAILS AND INSTALLATION OF MANHOLE COVER AND FRAME.
6. CONTRACTOR TO USE MANHOLES WITH A 24" CLEAR OPENING FOR SEWERS LARGER THAN 24" UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
7. MANHOLE STEPS SHALL BE CAST IN PLACE AND ORIENTED 180° FROM MANHOLE OUTLET. GRADE RING STEPS SHALL BE PLACED BETWEEN GRADE RINGS AND GROUTED IN PLACE. BOTTOM STEP TO BE USED AS CLEANING HOOK AND SHALL BE PLACED 6" MIN AND 12" MAX FROM TOP OF SHELF.
8. DIMENSIONS PERTAINING TO 60" ID REINFORCED MANHOLES SHOWN IN PARENTHESES (*). DIMENSIONS PERTAINING TO 72" ID REINFORCED MANHOLES SHOWN IN BRACKETS ([K]).

SECTIONAL ELEVATION B-B

SECTIONAL ELEVATION A-A

REVISIONS

NO. DESCRIPTION
1. 6/28/03 UPDATED TITLE BLOCK, FONT, LAYOUT AND PAGE LAYOUT
2. 2/1/07 REVISED NOTE 7 AND SECTIONAL ELEVATIONS
3. 9/22/06 REVISED NOTE 5 AND JOINT DETAIL DIMENSIONS
4. 12/11/96 REVISED STEP DETAIL AND NOTE I
5. 11/14/96 REDRAWN W/CADD ON MYLAR

REFERENCES:
FILE: SB-54.dgn
DRAWN BY: KER

RECOMMENDED

EASTERN MUNICIPAL WATER DISTRICT
STANDARD DRAWING

PRECAST REINFORCED CONCRETE 60" & 72" ID FLAT TOP MANHOLE

APPROVED

DOYLE T. BROWN
ASSISTANT GENERAL MANAGER

DATE: 06/07

SN-54