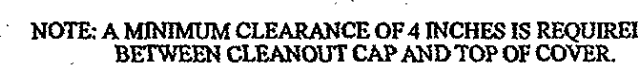


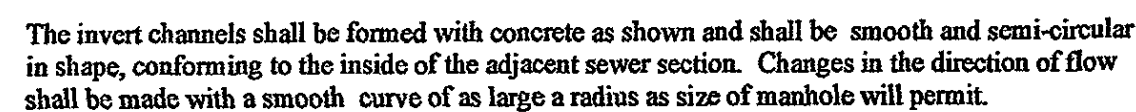
## NTS



NTS



1. ALL MANHOLE FRAMES AND COVERS SHALL BE DEWEY BOTHE'S, INC. MH-CR-3000L IN NON-PAVED AREAS REQUIRING WATERPROOF FRAME & COVERS AND MH-CR-3000E-WT IN PAVED AREAS, OR APPROVED EQUAL.
2. THE FIRST STEP SHALL BE 1 FOOT FROM THE COVER.
3. THE FRAME AND COVER SHALL BE PROPERLY ALIGNED WITH THE 2 FOOT OPENING OF THE MANHOLE STRUCTURE AND BOLTED IN PLACE.
4. ALL SAMPLING MANHOLES SHALL BE CONSTRUCTED AS PER SAMPLE DETAIL. WHEN NECESSARY, THE 2 FOOT TOP MANHOLE MAY BE SUBSTITUTED WITH ECCENTRIC OPENING AT STEPS.
5. FLAT TOP TO BE VDOT APPROVED FOR TRAFFIC BEARING WHEN USED IN AREAS SUBJECT TO TRAFFIC. 8 MIN.



## NTS



**TYPICAL SECTION**  
**(DIMENSIONS MAY VARY WITH  
(MANUFACTURER'S DESIGN))**

NOTES: (ALUMINUM STEP)  
STEPS SHALL BE FABRICATED IN ACCORDANCE WITH ASTM B221M,  
ALLOY 6005-T5.  
THAT PORTION OF THE STEP ENCASED IN MASONRY SHALL BE  
UNIFORMLY COATED WITH BITUMINOUS, SOLVENT TYPE, ASBESTOS  
FILLED ALUMINUM PIGMENTED COATING CONFORMING TO FEDERAL  
SPECIFICATION TC-C-00498A.

- Notes:
- 1. Steps will be required in all structures with a depth of 48" or greater unless otherwise noted on the plans.
- 2. All steps shall protrude 4.5" from inside face of structure wall.
- Maximum step spacing to be 16" o-c.
- 3. Steps shall withstand a minimum force of 1335 newtons when extended 4.5" from the face of the support.
- 4. Steps are to vertically aligned and uniformly spaced for the entire depth of any structure.
- 5. In precast units steps may be cast in place, mortared into holes provided by the fabricator, or driven
- 6. Steps differing in dimensions, configuration, or materials from those shown may also be used provided they meet the minimum requirements shown hereon and the contractor has furnished the substitute and has received written approval from the engineer for the use of such.
- 7. All steps installed shall be provided with slip-resistant surfaces such as, but not limited to, corrugated knurl, or dimpled surfaces.

\* MINIMUM OF 3" EMBEDMENT



## SECTION A-A

NOTE:  
DEWEY BROTHERS  
INC. MH-RCR-3000ECV  
STANDARD FRAME &  
COVER (PAVED)

## NTS



## NTS

NTS


$$\frac{11}{NT}$$
