



## **NOTES:**

- CASE 1. THIS CONDITION IS COVERED BY THE STANDARD TYPE 'G' ENDWALL.
- CASE 2. WHEN A PIPE IS TO BE PLACED ASKEW TO FOLLOW THE NATURAL WATER COURSE, THE STANDARD 'G' ENDWALL SHOULD BE MODIFIED BY LENGTHENING THE HEADWALL TO ALLOW FOR THE INCREASED AREA OF THE PIPE DUE TO THE ASKEW AND THE WINGS LENGTHENED TO CARE FOR THE SLOPE.
- CASE 3. WHEN IT IS NOT PRACTICAL TO PLACE THE ENDWALL ON THE OUTLET END IN LINE WITH THE ENDWALL ON THE INLET END, IT IS NECESSARY TO ASKEW THE PIPE. THIS REQUIRES THE LENGTHENING OF THE HEADWALL ONLY TO ALLOW FOR THE INCREASED AREA OF THE PIPE DUE TO THE ASKEW. THE LENGTH OF THE WINGS ARE STANDARD.
- CASE 4. WHEN A WATER COURSE IS ASKEW AND IT IS MORE ECONOMICAL OR BETTER PRACTICE TO PLACE THE PIPE AT RIGHT ANGLES TO THE CENTER LINE AND RECUT THE OUTLET, THE 'G' ENDWALL CAN BE USED BY PLACING THE WINGS PARALLEL TO THE COURSE AND LENGTHENING THE WINGWALLS ONLY, THE HEADWALL REMAINS STANDARD.



CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
BUREAU OF WATER AND WASTEWATER

STANDARD TYPE 'G' ENDWALL MODIFICATIONS

3 / 2008 REVISED REVISED

STANDARD NO.

 $A = 60^{\circ} TO 90^{\circ}$ 

STANDARD NO. BC 360.91

SCALE: NONE SHEET 1 OF 1