





GRATE A BAR SPACING CHART		
GRATE TYPE	MAXIMUM DIMENSION	
	a	b
ΑI	11/2"	3"
ΑШ	1"	1"

## NOTES:

- 1. SEE GENERAL NOTES-PRECAST FOR ADDITIONAL DETAILS.
- 2. CONCRETE COVER AND GRATE ARE TO BE FURNISHED AS A SINGLE UNIT. OUTSIDE DIMENSIONS OF GRATE ARE TO BE 3'-4" X 2'-111/4" (GRATE A) OR 3'-4" X 2'-111/2" (GRATE B).
- 3. DIMENSIONS SHOWN ARE MINIMUM. ACTUAL DIMENSIONS MAY VARY WITH MANUFACTURER.
- 4. GRATE A IS TO BE UTILIZED IN LOCATIONS NOT NORMALLY SUBJECT TO TRAFFIC.
- 5. GRATE B IS TO BE UTILIZED IN LOCATIONS NORMALLY SUBJECT TO TRAFFIC.
- 6. ALTERNATE METHODS OF ANCHORING ANGLE IRON WILL BE ACCEPTABLE IF APPROVED BY THE ENGINEER.
- 7. GRATE AND COLLAR ARE TO BE GALVANIZED AFTER FABRICATION.
- 8. JOINTS BETWEEN CONCRETE COVER AND GUTTERS (WHEN REQUIRED) ARE TO BE DOWELED, KEYED, OR OTHER VDOT APPROVED METHODS.
- 9. CONCRETE SHALL BE 4000 PSI MINIMUM.
- 10. REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A-615.
- 11. GRATE BARS ARE TO BE INSTALLED SO THEY WILL BE ALIGNED PARALLEL TO THE DITCH FLOW.
- 12. SEE STANDARD DI-7, 7A, 7B FOR DETAILS OF GUTTER, METHOD OF PLACEMENT, ALTERNATE METHODS OF CONSTRUCTION.

## STANDARD PRECAST TOP UNITS

VIRGINIA DEPARTMENT OF TRANSPORTATION

REV. 7/05

103.08

SPECIFICATION REFERENCE 105 233 302