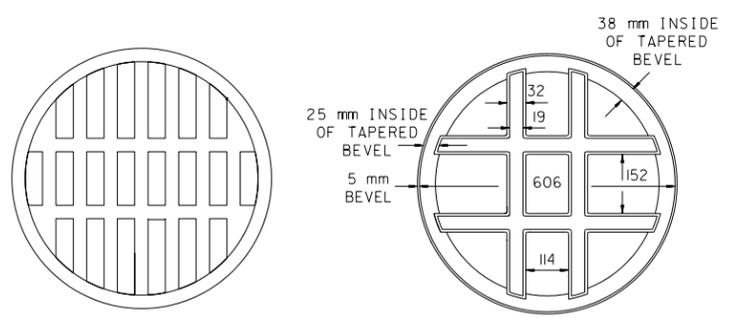
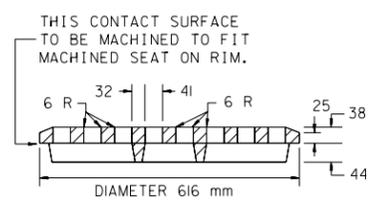


- REV. 11-1-95: CHANGED TO METRIC.
- REV. 7-29-96: MADE MINOR DIMENSIONING CORRECTIONS.
- REV. 5-27-01: GENERAL REVISION.



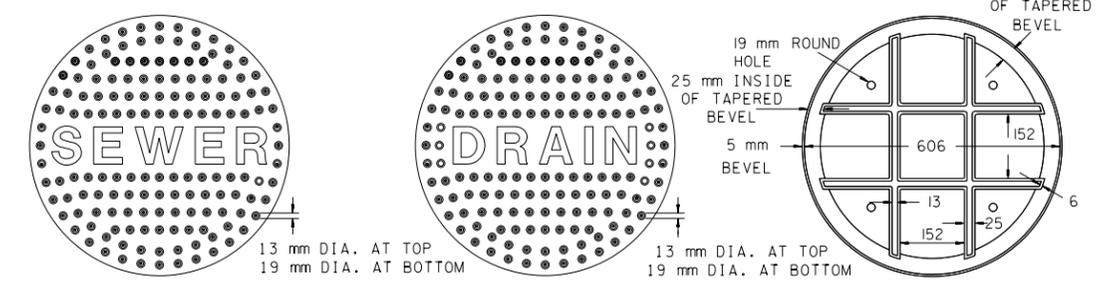
TOP VIEW

BOTTOM VIEW



SECTIONAL VIEW

TYPE A MANHOLE COVER WITH OPEN GRATE
(WEIGHT OF COVER - 68 kg)



TOP VIEW

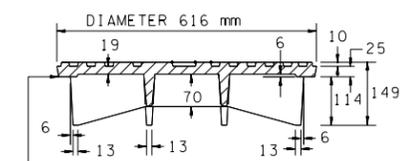
TOP VIEW

BOTTOM VIEW

TYPE B MANHOLE COVER
(SANITARY SEWER)

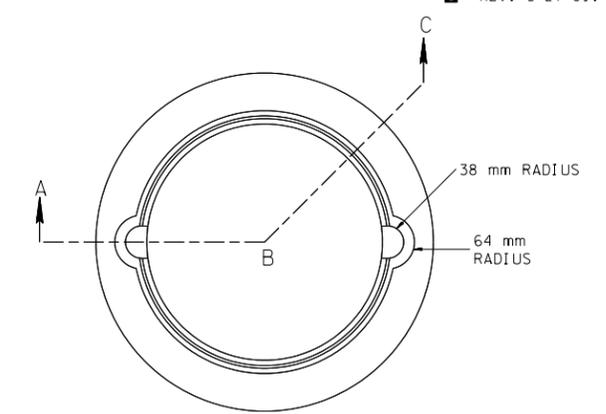
TYPE C MANHOLE COVER
(STORM SEWER)

FOR BOTH TYPE B AND C COVERS

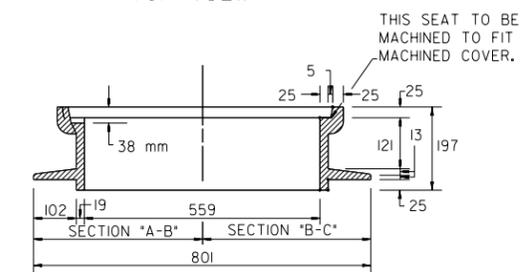


SECTIONAL VIEW FOR BOTH TYPE B AND C COVERS

TYPE B AND C MANHOLE COVERS
(WEIGHT OF EITHER COVER - 75 kg)

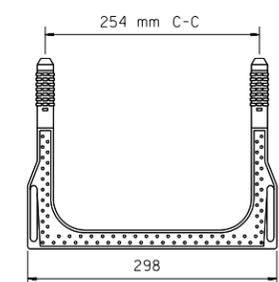


TOP VIEW

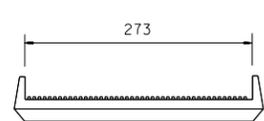


SECTIONAL VIEW

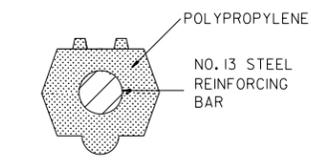
MANHOLE RIM FOR TYPE A, B AND C COVERS
(WEIGHT OF RIM-104 kg)



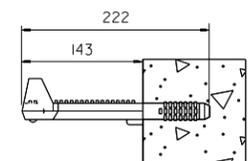
PLAN VIEW



FRONT VIEW



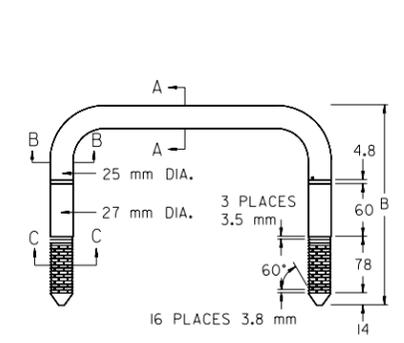
SECTIONAL VIEW



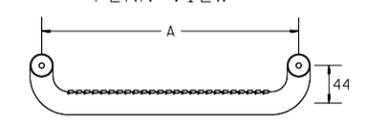
SECTIONAL VIEW

MATERIAL SPECIFICATIONS	
THE POLYPROPYLENE, CONFORMING TO AN ASTM D4101 SPECIFICATION, IS INJECTION MOLDED AROUND A NO. 13 ASTM A615M GRADE 400 STEEL REINFORCING BAR. THIS STEP EASILY MEETS THE REQUIREMENTS OF ASTM C478M, AASHTO M-199 AND OSHA INSTRUCTION STD 1-1.9.	

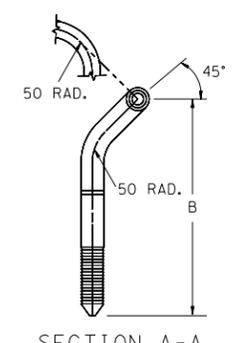
254 mm PLASTIC MANHOLE STEP



PLAN VIEW



FRONT VIEW



SECTION A-A

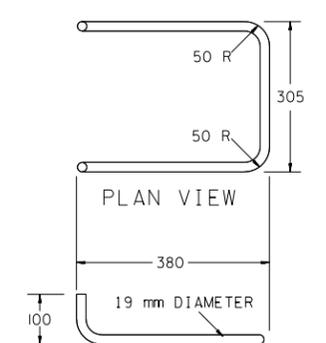


SECTION B-B SECTION C-C

WIDTH OF STEP TABLE	
DIMENSION A	DIMENSION B
305	222
356	222
406	222
406	251

MATERIAL SPECIFICATIONS	
① ALUMINUM: 6351-T6, CSA-S157-1969(CSA-HA5)	
② POLYETHYLENE: LOW DENSITY, VIRGIN MATERIAL.	

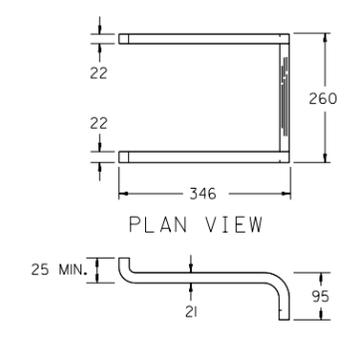
POLYETHYLENE COATED ALUMINUM STEPS



PLAN VIEW

SIDE VIEW

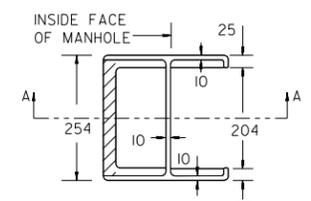
WROUGHT IRON STEPS



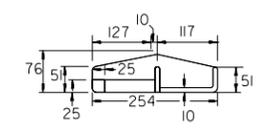
PLAN VIEW

SIDE VIEW

ALUMINUM STEPS
(FOR USE WITH BRICK MASONRY MANHOLES ONLY)



PLAN VIEW



SECTION A-A

CAST-IRON STEPS



ALL UNITS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

□ MINOR REVISION -- FHWA APPROVAL NOT REQUIRED.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STANDARD NO. 3
MANHOLE CASTINGS
AND STEPS

11-1-95 DM-MH-4