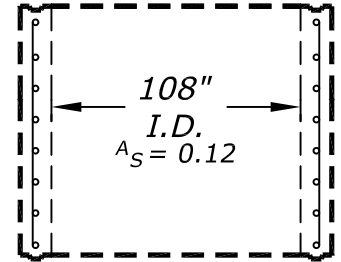


STRUCTURAL REINFORCEMENT DATA:

* ASTM A82, ASTM A 185
 ASTM A496, ASTM A 615
 ALL ACCEPTABLE STEEL
 REINFORCING.

A_s = NOT LESS THAN
 0.0025 X I.D. IN
 INCHES FOR ALL
 CIRCUMFERENTIAL
 REINFORCEMENT.

* STEEL CAGE TO BE PLACED
 IN THE CENTER THIRD OF
 MANHOLE WALL THICKNESS.



108" I.D. STEEL REBAR CAGE DESIGN = #3 REBAR
 CIRCUMFERENTIALS @ 6" VERTICAL CENTERS.
 #2 REBAR VERTICALS (10 EA.) PLACED TO
 HOLD CAGE RIGID. = MINIMUM 0.15/VFT
 CONCRETE: MIN 4000 psi @ 28 DAYS.

DESIGN NOTES:

1) LOAD CRITERIA:

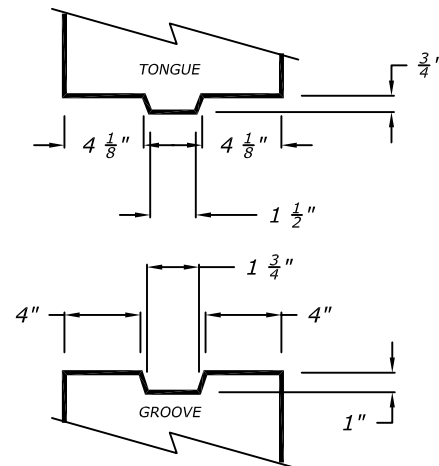
- AASHTO H-20 TRAFFIC LOADING (16,000 LBS. WHEEL LOAD) *FOR MANHOLES & RING & COVERS.
- INCIDENTAL H-20 TRAFFIC LOADING (OCCASIONAL TRAFFIC, OFF STREET LOCATIONS)
- PARKWAY LOADING (300 LBS./SQ. FT.)
- H-20 SURCHARGE AND LATERAL EARTH PRESSURE. * FOR PRECAST MANHOLES.

2) CONCRETE COMPRESSIVE STRENGTH: 4500 PSI @ 28 DAYS.

3) STEEL REINFORCING YIELD STRENGTH F_y = 60,000 PSI PER ASTM A-615.

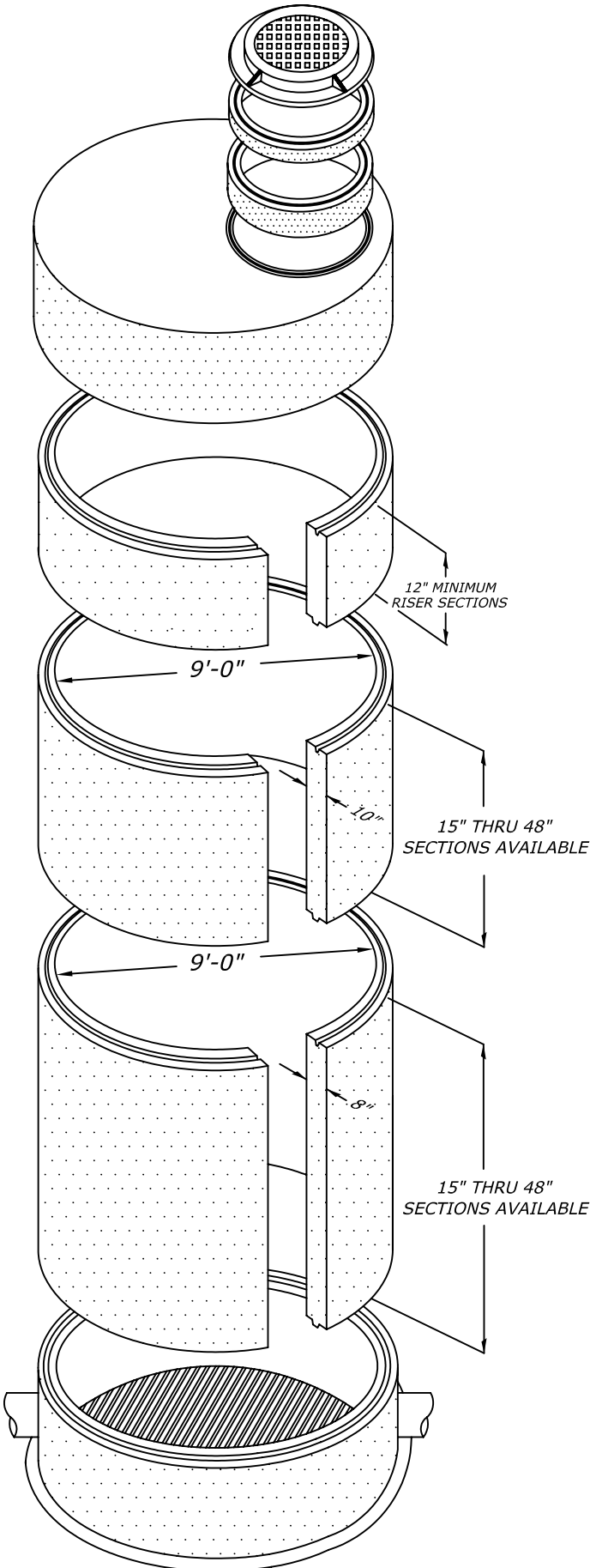
4) ALL JOINTS TO BE SEALED USING FLEXIBLE GASKET MATERIAL (RAMNECK).

5) ALL MANHOLES MADE IN ACCORDANCE WITH ASTM C-478.



JOINT DETAIL (10" WALL)

MORTAR OR MASTIC
 JOINT AVAILABLE



NOTE:
 1. PIPE SECTION LENGTHS ARRANGED TO FIT DEPTH.

