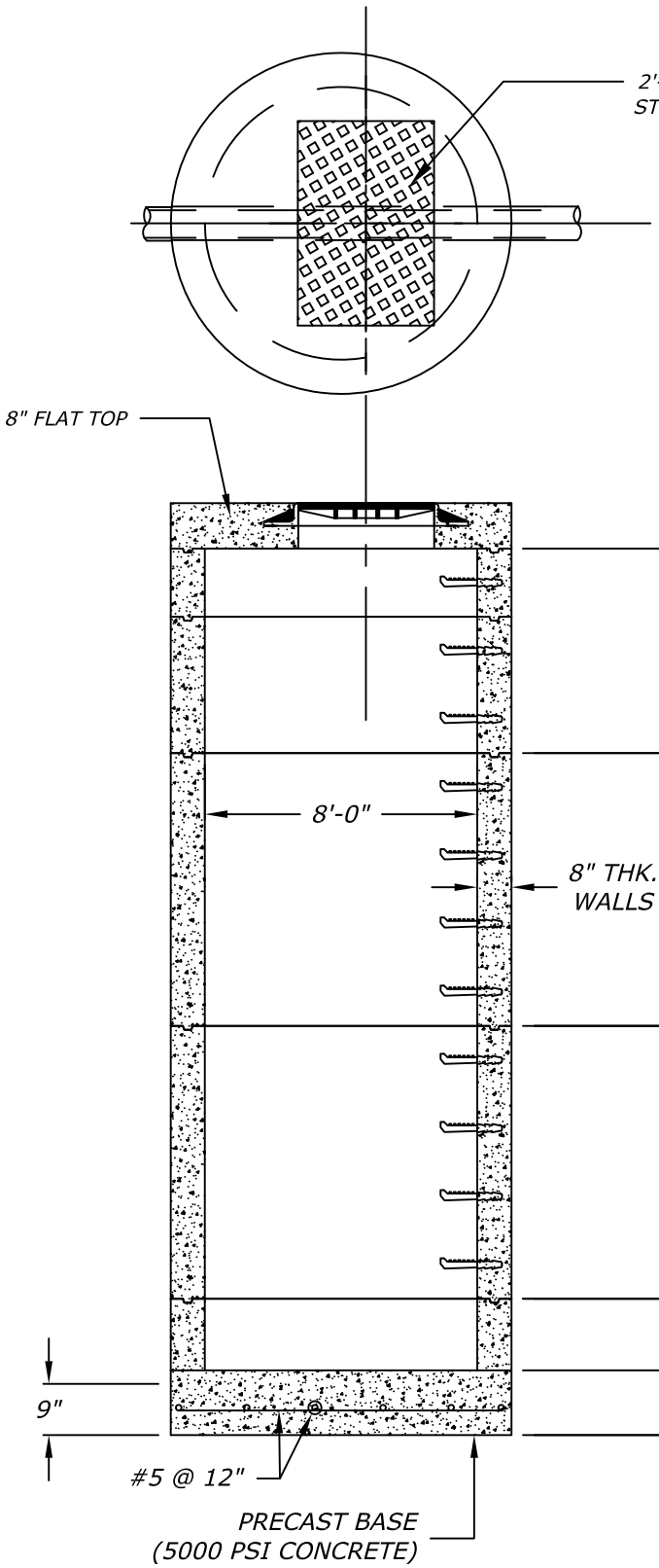
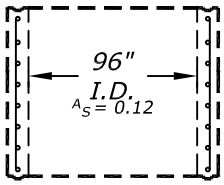
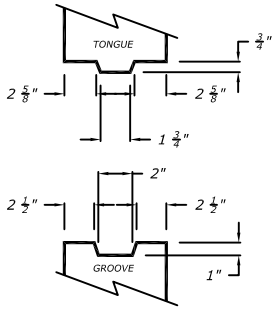


STRUCTURAL REINFORCEMENT DATA:

* 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.



96" 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.



JOINT DETAIL (8" WALL)

MORTAR OR MASTIC JOINT AVAILABLE

DESIGN NOTES:

1) LOAD CRITERIA:
   - [x] 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.)
   - [x] H-20 SURCHARGE AND LATERAL EARTH PRESSURE. * FOR PRECAST MANHOLES.
2) CONCRETE COMPRESSIVE STRENGTH: 4500 PSI @ 28 DAYS.
3) STEEL REINFORCING YIELD STRENGTH Fy = 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.

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

OPC — OLSON PRECAST COMPANY

OR EQUAL PRECAST COMPANY