



**NOTES:**

1. PRECAST CONCRETE SHALL BE TYPE 2 CEMENT, 4000 PSI WITH XYPEX ADMIX C-1000 RED, XYPEX XYCRYLIC ADMIX, OR APPROVED EQUAL
2. ALL PORTLAND CEMENT, GROUT, OR CONCRETE FILL USED INSIDE OR OUTSIDE OF A NON-POLYMER MANHOLE SHALL REQUIRE XYPEX C-1000 RED, XYPEX XYCRYLIC ADMIX OR APPROVED EQUAL
3. ALL OPENINGS, CHIPS, LIFT HOLES, ETC. SHALL BE SEALED WITH PORTLAND CEMENT WITH XYPEX ADMIX C-1000 RED, XYPEX XYCRYLIC ADMIX, OR APPROVED EQUAL
4. LIFT HOLES ARE NOT PERMITTED THROUGH PRECAST SECTIONS
5. REINFORCING STEEL PER ASTM C478 (MOST RECENT EDITION) SHALL BE REQUIRED
6. DESIGNS MUST MINIMUM OF 50% UNINTERRUPTED WALL AREA ON ANY HORIZONTAL PLANE AND A MINIMUM OF 12" BETWEEN WALL PENETRATIONS
7. CONCENTRIC FLAT SLAB TRANSITIONS TO THE CONE SECTION ARE ALLOWED AT THE DISCRETION OF TOHO
8. SERVICE LATERALS SHALL BE PERMITTED DIRECTLY INTO MANHOLES MATCHING THE CROWN ELEVATION OF THE OUTFLOW PIPE ONLY. DROPS OR FILLETED FLUMES ARE NOT PERMITTED FOR LATERALS
9. THIS DETAIL SHALL NOT APPLY TO THE FOLLOWING MANHOLES. REFERENCE THE POLYMER MANHOLE DETAIL TOHO-07.1 FOR ADDITIONAL REQUIREMENTS:
  - 9.1. MANHOLES 12' OR DEEPER
  - 9.2. MANHOLES THAT RECEIVE FORCE MAINS
  - 9.3. MANHOLES WITH DROP CONNECTIONS
  - 9.4. MANHOLES WITHIN 400' UPSTREAM OR DOWNSTREAM OF 9.2 OR 9.3 ABOVE
10. WHERE MANHOLES ARE NOT IN PAVED AREAS OR COMPLETELY PROTECTED FROM VEHICULAR TRAFFIC, A CONCRETE COLLAR PER TOHO-26 SHALL BE REQUIRED

M.H. DEPTH	A*	B	C	D
UP TO 11.99'	48"	6"	36"	8"
* >12', < 15'	60"	8"	36"	10"

\* MH'S 12' OR DEEPER ONLY  
ALLOWED ON CASE-BY-CASE BASIS  
W/ EXECUTIVE DIRECTOR APPROVAL.

MANHOLE SIZE:

(UP TO 12" PIPE = 48"  $\phi$ ), (UP TO 24" PIPE = 60"  $\phi$ ), (OVER 24" PIPE = 72"  $\phi$ ).