



NOTES:

1. THIS DETAIL SHALL APPLY TO THE FOLLOWING MANHOLES:
 - 1.1. MANHOLES 12' OR DEEPER
 - 1.2. MANHOLES THAT RECEIVE FORCE MAINS
 - 1.3. MANHOLES WITH DROP CONNECTIONS
 - 1.4. MANHOLES WITHIN 400' UPSTREAM OR DOWNSTREAM OF 10.2 OR 10.3 ABOVE
2. PRECAST BASE, RISER(S), AND CONE SECTIONS SHALL BE POLYMER CONCRETE.
3. ALL GROUT FILL USED INSIDE A POLYMER MANHOLE SHALL BE POLYMER GROUT AS SPECIFIED BY THE MANHOLE PRECASTER
4. ALL PORTLAND CEMENT, GROUT, OR CONCRETE FILL USED OUTSIDE OF A POLYMER MANHOLE SHALL REQUIRE XYPEX ADMIX C-1000 RED, XYPEX XYCRYLIC ADMIX, OR APPROVED EQUAL
5. ALL INTERIOR OPENINGS, CHIPS, LIFT HOLES, ETC. SHALL BE SEALED WITH POLYMER GROUT AS SPECIFIED BY THE MANHOLE PRECASTER
6. LIFT HOLES ARE NOT PERMITTED THROUGH PRECAST SECTIONS
7. REINFORCEMENT OF THE PRECAST BASE, RISER(S), AND CONE SHALL BE DESIGNED BY THE MANHOLE PRECASTER AND APPROVED BY TOHO
8. MANHOLE DESIGNS MUST MAINTAIN A MINIMUM OF 50% UNINTERRUPTED WALL AREA ON ANY HORIZONTAL PLANE AND A MINIMUM OF 12" BETWEEN WALL PENETRATIONS
9. CONCENTRIC FLAT SLAB TRANSITIONS TO THE CONE SECTION ARE ALLOWED AT THE DISCRETION OF TOHO
10. 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
11. WHERE MANHOLES ARE NOT IN PAVED AREAS OR COMPLETELY PROTECTED FROM VEHICULAR TRAFFIC, A CONCRETE COLLAR PER TOHO-26 SHALL BE REQUIRED
12. POLYMER GROUT AS SPECIFIED BY THE MANHOLE PRECASTER SHALL BE USE TO SKIM COAT THE INTERIOR SURFACE OF THE BRICK RISER / ADJUSTMENT RING(S)

M.H. DEPTH	A*	B (MIN)	C	D (MIN)**
UP TO 11.99'	48"	2"	36"	6"
* >12', < 15'	60"	2"	36"	6"

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

** BASE DEPTH AND REINFORCEMENT
TO BE DESIGNED BY MANHOLE
PRECASTER AND APPROVED BY
TOHO

MANHOLE SIZE:

(UP TO 12" PIPE = 48" ϕ), (UP TO 24" PIPE = 60" ϕ), (OVER 24" PIPE = 72" ϕ).