PRECAST MANHOLE SECTIONS IN COMPLIANCE WITH ASTM-C-476 USING CLASS A-4 CONCRETE (4000 P.S.I.) WITH ADMIXTURE FOR MINIMIZING ALKALI-SILICA REACTION. REINFORCING FABRIC IN COMPLIANCE WITH ASTM A-185 (0.12 IN²/FT²).

SEE "MANHOLE FRAME AND COVER DETAIL".

FINISHED GRADE
MANHOLE CASTING EMBEDDED IN MORTAR
4" MIN. - 12" MAX. - USE PRECAST ADJUSTMENT RINGS OR BRICK & MORTAR
32" ECCENTRIC CONE (TAPER FROM 5" WALL Ø BOTTOM TO 8" WALL Ø TOP
16", 24", 32", 48" RISERS (MINIMIZE NUMBER OF RISERS UTILIZED)

ALIGN MANHOLES STEPS
Ø 12" TO 16" VERTICAL SEPARATION: 24" MAX. RIM TO FIRST STEP
5'-8"
6'

5" (FOR DEPTH 12"
6" (FOR DEPTH OVER 12") (SEE NOTE 2)
SEE "PRECAST SEWER MANHOLE JOINT"
NEOPRENE SEAL

5" (FOR DEPTH 12"
6" (FOR DEPTH OVER 12") SEE NOTE 1

4" MIN.
24" TO 50" MONOLITHIC BASE

6" COMPACTED COARSE AGGREGATE (*57) WITH 5 MIL PLASTIC VAPOR BARRIER

SEE "SANITARY SEWER MANHOLE INVERT SHAPING"

NOTES:
1. FOR MANHOLE DEPTH GREATER THAN 25' (RIM TO INVERT) STRUCTURAL ANALYSIS BY PROFESSIONAL ENGINEER TO BE PROVIDED.
2. SPECIFIED DIAMETER TO BE UTILIZED THROUGHOUT STRUCTURE (i.e. DO NOT REDUCE DIAMETER Ø THRESHOLD DEPTH).
3. PROVIDE PROTECTIVE COATING WITH APPROVED EPOXY-RESIN BASED HIGH BUILD SYSTEM.
4. LATERAL ENTRY SHALL BE NO CLOSER THAN 6-INCHES TO ANY JOINT LINE.

PRECAST SANITARY SEWER MANHOLE

CITY OF VIRGINIA BEACH • DEPARTMENT OF PUBLIC UTILITIES