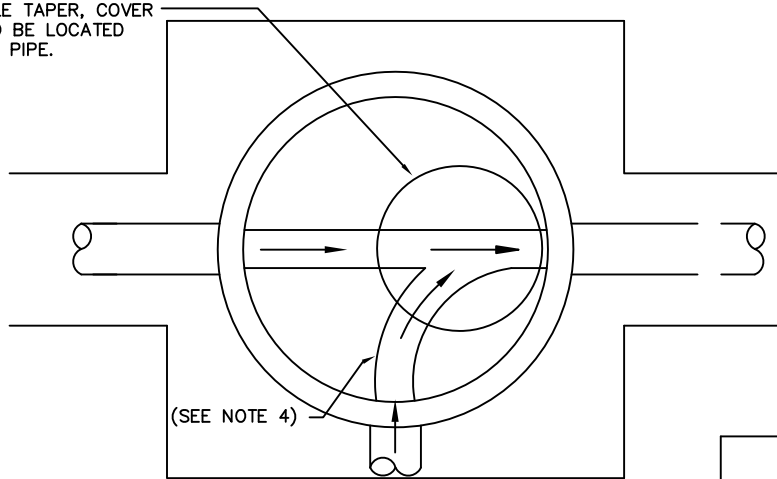


**NOTES:**

1. WHEN MANHOLES ARE INSTALLED IN UNIMPROVED AREAS, THE TOP OF THE COVER SHALL BE A MIN. OF 6" ABOVE GRADE (1.5" IN DG AREAS). SLOPE @1:2 TO MATCH FINISH GRADE.
2. MIN. OF ONE 3" GRADE ADJUSTMENT RING. MAX. HEIGHT OF GRADE ADJUSTMENT RINGS = 20". ALTERNATELY, CONTRACTOR MAY CAST GRADE ADJUSTMENT RINGS IN PLACE.
3. SET ALL BARREL SECTIONS & TAPER SECTIONS IN PLASTIC GASKET, RAM-NEK OR EQUAL. TYPICAL JOINT USE (1) 3/4"x2-1/2" RAM-NEK SEAL, OR EQUAL 6" WIDE GROUT BAND ON INSIDE & OUTSIDE.
4. AFTER LOWER RING SECTION IS SET, CUT OUT TOP HALF OF PIPE FLUSH WITH INSIDE FACE OF M.H. WALL AND CONSTRUCT SHELF & U-SHAPED CHANNEL. MAKE ELEVATION CHANGES GRADUALLY AND DIRECTIONAL CHANGES WITH SMOOTH CURVES. SLOPE AND SIZE OF CHANNELS SHALL MATCH UPSTREAM AND DOWNSTREAM PIPES. MANHOLE CHANNELS WITH A HORIZONTAL CHANGE IN DIRECTION OF 30' OR MORE SHALL HAVE A MIN. DROP OF 0.1' ACROSS THE MANHOLE OR SHALL MATCH THE SLOPE OF THE PIPE. WHICHEVER IS GREATER.
5. POURED-IN-PLACE BASE SHALL BE POURED FULL THICKNESS ON UNDISTURBED SOIL. PRECAST BASE SHALL BE PLACED ON 6" MIN. OF 3/4" DRAIN ROCK INSTALLED AGAINST UNDISTURBED EARTH.
6. STANDARD MANHOLE BARREL SECTION PER ASTM C478. WITH RESILIENT CONNECTORS PER ASTM C923
7. 48"  $\phi$  I.D. M.H. TO BE USED FOR ALL MAINS LESS THAN 18"  $\phi$ . 60"  $\phi$  I.D. M.H. TO BE USED FOR ALL MAINS 18"  $\phi$  TO 48"  $\phi$  OR WHERE INSIDE DROP FITTINGS ARE USED.

INSTALL WATERSTOP FOR POURED IN PLACE BASES, IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AS SHOWN. (TYPICAL)

ECCENTRIC MANHOLE TAPER, COVER & GRADE RINGS TO BE LOCATED OVER DOWNSTREAM PIPE.



**MANHOLE BASE**

CHANNELIZATION PLAN AND LOCATION OF ECCENTRIC MANHOLE COVER

**NOTES TO DESIGN PROFESSIONAL:**

1. VERIFY AND EDIT TEXT IN BRACKETS [].

**UNIVERSITY OF CALIFORNIA, DAVIS**

**MANHOLE**

REVISION: 1

SCALE: NONE

DATE: DEC 09

DWN: KH  
CHK: VG

APPROVED

FILE NO.  
SS-01