



NOTES:

1. CLASS A CONCRETE SHALL BE USED FOR MANHOLE BASES.
2. PIPE SHALL STOP AT INSIDE FACE OF MANHOLE.
3. POURED IN PLACE MANHOLES SHALL NOT BE ALLOWED UNLESS APPROVED BY THE DISTRICT ENGINEER, PRIOR TO CONSTRUCTION.
4. JOINTS FOR THE BARREL SECTION SHALL BE TONGUE AND GROOVE OR LAP JOINT, ALL LIFTING HOLES SHALL BE SEALED WITH NON METALLIC NON-SHRINK GROUT.
5. ALL MANHOLE BASES SHALL BE PRECAST BASES AND SHALL BE PLACED ON 10" MIN. OF CRUSHED ROCK PLACED OVER UNDISTURBED MATERIAL. CONNECTION OF THE PIPE TO THE MANHOLE SHALL USE A CAST IN PLACE VCP BELL WITH POLYURETHANE JOINT PER ASTM STANDARD C425 OR A RESILIENT CONNECTOR CONFORMING TO ASTM STANDARD C923 SUCH AS KOR-N-SEAL 306 SERIES OR APPROVED EQUAL. ALL MANHOLE BASES TO INCLUDE AN ANTI-FLOATATION RING PER STANDARD DRAWING 7-4C-40.
6. ANY SERVICE SEWER ENTERING A MANHOLE SHALL BE INSTALLED WITH THE INVERT ELEVATION OF THE SERVICE PIPE MATCHING THE CROWN ELEVATION OF THE EXIT SEWER EXCEPT WHEN AN INTERNAL DROP CONNECTION IS USED. FOR MANHOLES AT THE END OF A CUL-DE-SAC OR END OF LINE WITH NO EXTENSION THE INVERT OF ANY SERVICE STUBS SHALL BE A MINIMUM OF ONE INCH ABOVE THE INVERT OF THE EXIT PIPE WITH AN INDIVIDUAL SMOOTH TRANSITION CHANNEL. SEE SECTION 39-2.01 OF THE SPECIFICATIONS.
7. BEDDING FOR PRE CAST MANHOLE SHALL BE SELECT IMPORTED MATERIAL 3/4" CRUSHED ROCK.
8. ECCENTRIC CONES ARE NOT ALLOWED UNLESS APPROVED BY THE DIRECTOR, PRIOR TO CONSTRUCTION.
9. FOR ASPHALTIC CONCRETE OVERLAYS ONLY, MANHOLES WITH DEPTHS OF 8' AND GREATER (MEASURED FROM THE FLOW LINE TO THE TOP OF CASING) THE MAXIMUM THROAT DEPTH IS 24 INCHES.
10. CUL-DE-SAC MANHOLES OR END OF LINE MANHOLES WITH A DEPTH OF 6'11" OR LESS SHALL USE 18" CONES.
11. ANY COLLECTOR ENTERING A MANHOLE SHALL BE INSTALLED WITH THE INVERT ELEVATION OF THE ENTERING COLLECTOR MATCHING THE CROWN ELEVATION OF THE EXIT PIPE.
12. PIPE SHALL BE PLACED WITH THE BELLS UPSTREAM.
13. THE MINIMUM DISTANCE BETWEEN SIDE PENETRATIONS IS 1/2 OF THE SMALLEST PIPE OUTSIDE DIAMETER. THE MAXIMUM OUTSIDE DIAMETER OF ANY PENETRATION IS EQUAL TO 0.707 x THE MANHOLE INSIDE DIAMETER.
14. ALL SEWER MANHOLES AND APPURTENANCES SHALL HAVE 24 HOUR ALL WEATHER ACCESS (I.E. PAVED SURFACE OR ACCESS ROAD).

Mary K Snyder
DIRECTOR

SACRAMENTO COUNTY
MUNICIPAL SERVICES AGENCY

**STANDARD PRECAST 60"
& 72" SEWER MANHOLES**

DRAWN BY: RAS
SCALE: NONE
DATE: 11/07

7-4C-31