



- NOTES:
1. TYPE V-A MANHOLE TO BE UTILIZED AS FOLLOWS:
 -FOR PIPE GREATER THAN 18" THRU 27".
 -DEPTHS GREATER THAN 18 FEET.
 2. MANHOLE MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF SECTION 204 "MANHOLES AND CATCH BASINS" OF THE STANDARD SPECIFICATIONS.
 3. PORTLAND CEMENT CONCRETE TYPE II (PCC) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 3000 PSI MIN. COMPRESSIVE STRENGTH @ 28 DAYS, MIN. 6 SACKS OF CEMENT PER CU.YD. SLUMP @ 1-4 INCHES. ALL MATERIALS SHALL CONFORM TO SSPWC SECTION 202.
 4. ALL MANHOLES SHALL INCLUDE PINKERTON A-107 FRAMES & COVER ASSEMBLIES, OR EQUAL, WITH "WASHOE COUNTY SEWER" CLEARLY STAMPED ON THE COVER.
 5. EXCAVATION & BACKFILL SHALL BE AS SPECIFIED FOR "TRENCH EXCAVATION & BACKFILL" IN SECTION 305.00 OF THE SSPWC.
 6. STEPS WILL BE REQUIRED ON ALL MANHOLES 5 FEET OR MORE IN DEPTH FROM FINISHED GRADE TO FLOW LINE.
 7. PRECAST MANHOLE SECTIONS, OTHER THAN GRADE RINGS, SHALL BE JOINED WITH FLEXIBLE PLASTIC GASKET MATERIAL SUCH AS "RAM-NEK" OR EQUAL AS PER MANUFACTURER'S RECOMMENDATIONS.
 8. PIPES SHALL NOT PROTRUDE MORE THAN 3" INSIDE OF PRECAST MANHOLE BASES.
 9. PIPE PENETRATIONS INTO MANHOLES SHALL BE WATER TIGHT.
 10. PRIOR TO BACKFILLING, ALL MANHOLES SHALL BE VACUUM TESTED PER THE REQUIREMENTS OF ASTM C-1244.
 11. REINFORCING STEEL SHALL BE AS SHOWN, UNLESS OTHERWISE NOTED.
 12. WHEN POSSIBLE, CONSTRUCT MANHOLE SECTIONS SO THAT STEPS ARE OPPOSITE OUTLET.

NO.	REVISED	DATE	STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION	SECTION:	
			MANHOLE TYPE V-A	WASHOE	
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