



NOTES:

1. ALL PRECAST CONCRETE RISERS AND CONES SHALL BE 4000 PSI CLASS A CONCRETE.
2. INSTALL TWO 2-FOOT SECTIONS OF PIPE AT INLET(S) AND OUTLET(S) OF MAINTENANCE HOLE.
3. EXCEPT AS NOTED HEREON, PRECAST UNIT SHALL BE MANUFACTURED AND TESTED IN ACCORDANCE WITH A.S.T.M. C-478. THE CURING OF THE PRECAST UNITS SHALL CONFORM TO SECTION 207-2.7 OF STANDARD SPECIFICATIONS.
4. RISER SECTIONS AND CONCENTRIC CONE MAY BE REINFORCED OR NON-REINFORCED. REINFORCED SECTIONS SHALL BE REINFORCED IN ACCORDANCE WITH A.S.T.M. C-478 AND SHALL HAVE A MINIMUM WALL THICKNESS OF 4 INCHES. MINIMUM WALL THICKNESS FOR NONREINFORCED SECTIONS SHALL BE 6 INCHES. REINFORCING SHALL BE IN ACCORDANCE WITH A.S.T.M. A-615.
5. JOINTS MAY BE KEY TYPE OR TONGUE AND GROOVE AND SHALL CONFORM WITH A.S.T.M. C-478, SECTION 14.
6. FOR DEPTHS EXCEEDING 5 FEET SEE WDS 502.
7. SUBGRADE SHALL BE OVEREXCAVATED 2 FEET BELOW BOTTOM OF MAINTENANCE HOLE BASE AND REPLACED WITH CRUSHED ROCK. MAINTENANCE HOLE BASE ON UNDISTURBED SOIL IF APPROVED BY LBWD.
8. ALL PRECAST CONCRETE MAINTENANCE HOLE SECTIONS SHALL BE DESIGNED FOR AASHTO H-25 LOADING.
9. PLASTIC JOINTS: PREFORMED COLD APPLIED READY TO USE PLASTIC JOINT SEALING COMPOUND SHALL BE CON-SEAL SEALANT, OR APPROVED EQUAL.
10. EXTERNAL JOINT WRAP: INSTALL 9 INCH WIDE EXTERNAL JOINT SEAL PRIOR TO BACKFILLING. MATERIAL FOR EXTERNAL JOINT SEAL SHALL CONFORM TO A.S.T.M. C-923 TEST, AS MODIFIED, WITH A MIN. 3/16 INCH THICKNESS FOR DURABILITY AND RESISTANCE TO TEARING OR PUNCTURING.

SHALLOW MAINTENANCE HOLE < 5' DEPTH

WDS - 501



Long Beach Water
Exceptional Water • Exceptional Service

RECOMMENDED

Robert Johnson

DIRECTOR OF ENGINEERING

APPROVED

Shirley Reed

DEPUTY GENERAL MANAGER / CHIEF ENGINEER

DATE: 02-2020

SCALE: N.T.S.

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