



**NO. DESCRIPTION:**

1. CLTW STANDARD INVERTED/REVERSIBLE CAST IRON FRAME AND COVER CAST IN PLACE FLUSH WITH TOP OF MANHOLE SLAB.
2. STEPS PER CLTW STANDARD DETAIL.
3. JOINT.
4. 6" (MIN.) WIDE BUTYL RUBBER JOINT WRAP REQUIRED ON EXTERIOR OF ALL JOINTS.
5. STEEL OR DIP.
6. THE SHELF SHALL SLOPE 1 INCH PER FOOT (MIN.) FROM THE MANHOLE WALL TO THE TROUGH.
7. MANHOLE BASE SHALL BE REINFORCED WITH A MINIMUM AREA OF 0.20 SQ. IN. PER LINEAR FOOT EACH WAY.
8. FINISH GRADE.
9. NON-COMPRESSIBLE MATERIAL (#57 STONE SHOWN).
10. 6" MIN. #57 STONE BASE, SUITABLE BEARING CAPACITY AS APPROVED BY GEOTECHNICAL ENGINEER.
11. NON-SHRINK GROUT PIPE IN MANHOLE (DO NOT USE RUBBER BOOT).
12. BUTYL RUBBER JOINT SEALANT-2 FULL CIRCLES EACH JOINT COMPRESSED (TYP.). USED BETWEEN PRECAST SECTIONS AND FRAME.

**NOTES:**

- A. STRAIGHT WALL OF MANHOLE AND STEPS TO BE LOCATED OVER INFLUENT PIPE.
- B. THIS DETAIL IS TO BE USED WHERE THE INVERT OF THE MANHOLE IS ABOVE THE EXISTING GROUND.
- C. FILLING BETWEEN THE BASE AND ELEVATED FLOOR MAY BE CRUSHED STONE (#57 STONE), BRICK BATS, OR ANY NON-COMPRESSIBLE MATERIAL. THIS FILLING SHALL BE COVERED WITH HDPE OR PVC LINER BEFORE THE CONCRETE IS POURED IN PLACE.
- D. MANHOLES SHALL ALSO COMPLY WITH CLTW STANDARD DETAILS AS APPLICABLE.
- E. FIELD PLACED CONCRETE TO BE 3,600 PSI.