



- NO. DESCRIPTION:**
1. EPOXY COATING WHERE SPECIFIED - MIN. 160 MILS THICK. EXTEND EPOXY TO TOP OF FRAME.
 2. MIN. 1 INCH THICK CEMENTITIOUS LINER ON VERTICAL WALL TO 1 INCH ABOVE BOTTOM OF FRAME. SEE NOTES A AND B.
 3. EXISTING MANHOLE WALL.
 4. EXISTING MANHOLE STEPS TO BE REMOVED UNLESS DIRECTED OTHERWISE BY THE SEALING ENGINEER.
 5. PLUG VOIDS AROUND STEPS WITH GROUT PRIOR TO INSTALLING CEMENTITIOUS LINER.
 6. MIN. 1 INCH THICK CEMENTITIOUS LINER ON BENCHING ALL AROUND. SEE NOTE B.
 7. EXISTING BENCHING. REBUILD WITH MIN. 3,600 PSI QUICKSET CONCRETE TO CROWN OF SEWERS WHERE SPECIFIED OR WHERE DIRECTED BY THE SEALING ENGINEER.
 8. EXISTING INVERT CHANNEL.
 9. COAT INVERT CHANNEL WITH GROUT. SEE SPECIFICATIONS.
 10. SEE SPECIFICATIONS PERTAINING TO WALL/BENCH INTERFACE.
 11. MANHOLE DIAMETER VARIES. TO BE DETERMINED IN FIELD. SEE NOTE A.
 12. SPECIAL CEMENTITIOUS MORTAR ON OUTSIDE OF EXPOSED MANHOLE WALLS WHERE SPECIFIED. MIN. 1 INCH THICK AND EXTENDED TO ABOVE AND AROUND FRAME AS SHOWN.
 13. EXISTING FRAME & COVER. RESET, RAISE OR REPLACE PER REHABILITATION OF MANHOLE FRAME AND COVER STD. DETAIL WHERE SPECIFIED.

- NOTES:**
- A. MANHOLE SHOWN IS A TYPICAL SHAPE. HOWEVER, MANHOLE SHAPES WILL VARY.
 - B. THE SEALING ENGINEER WILL SPECIFY THE REQUIRED MATERIAL FOR EACH MANHOLE.
 - C. PROVIDE ADDITIONAL CEMENTITIOUS MATERIAL AS NECESSARY TO PROVIDE A 1 INCH PER FOOT FALL FROM THE MANHOLE WALL TO THE INVERT CHANNEL. ANY AND ALL ADDITIONAL CEMENTITIOUS MATERIAL REQUIRED TO PROVIDE THE 1 INCH PER FOOT FALL SHALL BE INCIDENTAL TO THE WORK. THE CONTRACTOR IS ADVISED THAT MOST OF THE EXISTING BENCHES ARE FLAT. PROVIDE CHANNEL IN BENCHING FOR SEWERS ENTERING MANHOLES ABOVE BENCHING. CHANNEL TO PROVIDE SMOOTH TRANSITION TO MAIN INVERT CHANNEL.
 - D. THIS DETAIL APPLIES TO BRICK OR PRECAST MANHOLES.