

TABLE - MANHOLE LININGS AND COVERS

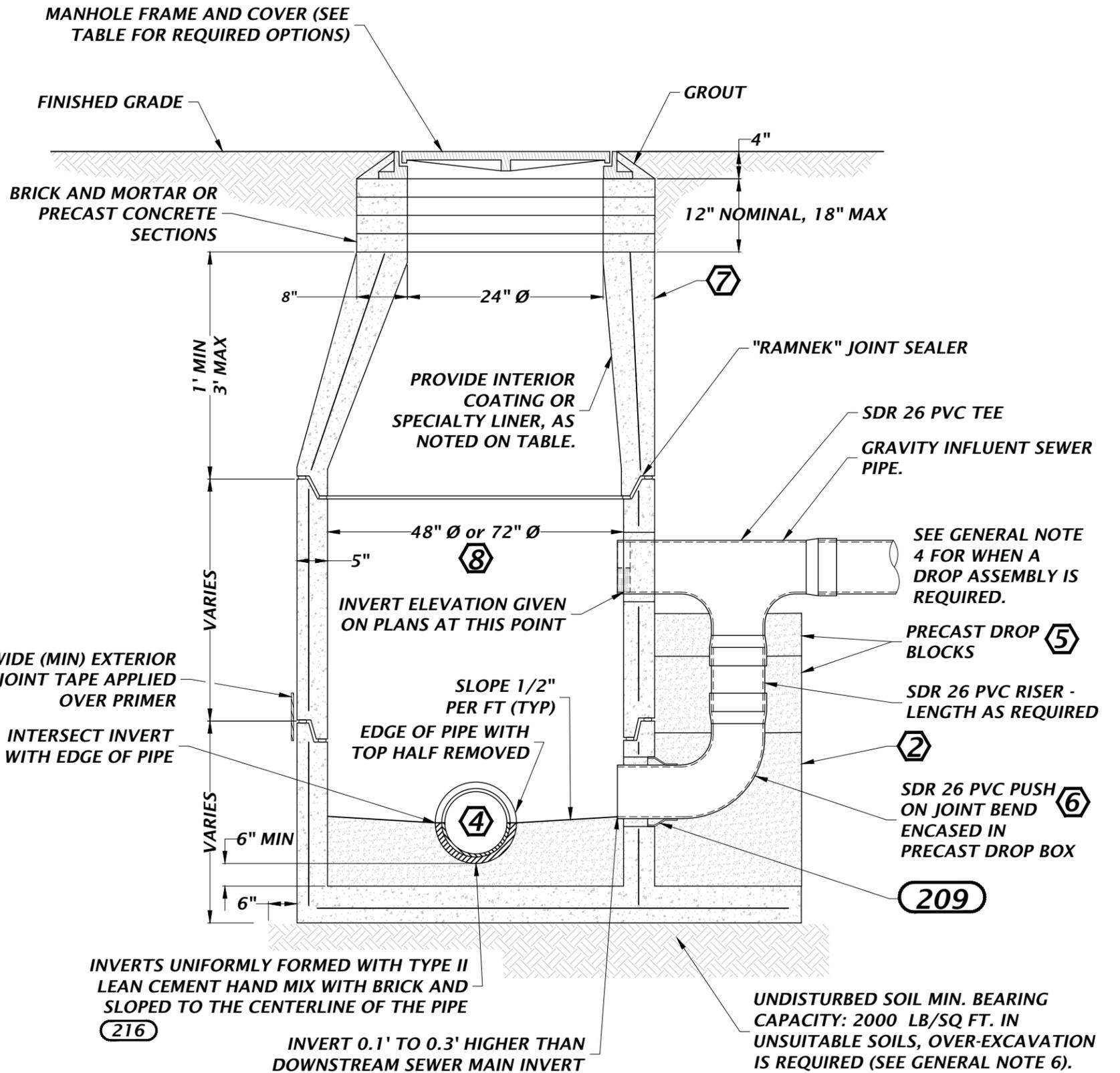
APPLICATION TYPE	HYDROGEN SULFIDE GAS CONCENTRATION	MANHOLE LINING REQUIRED	MANHOLE COVER AND FLUME
TYPE 1: WASTEWATER DISCHARGE FROM RESIDENTIAL HOMES, EITHER DIRECTLY OR INDIRECTLY	LOW	YES (3)	CAST IRON (212)
TYPE 2: OFF-ROAD OR CITY ROAD, RECEIVES FORCE MAIN DISCHARGE, EITHER DIRECTLY OR INDIRECTLY	HIGH	YES (1)	COMPOSITE (213)
TYPE 3: COUNTY OR STATE ROAD, RECEIVES FORCE MAIN DISCHARGE, EITHER DIRECTLY OR INDIRECTLY	HIGH	YES (1)	CAST IRON WITH COATING (214)

GENERAL NOTE(S):

1. MODIFY DETAIL AS NECESSARY IF DROP NOT REQUIRED.
2. PRECAST MANHOLE SECTIONS TO BE MANUFACTURED IN ACCORDANCE WITH THE LATEST EDITIONS OF A.S.T.M. C-478-73 WITH 4000 LB. CONC., TYPE II CEMENT. ALL LIFTING HOLES AND OUTSIDE INSERTS SHALL BE FILLED WITH NON-SHRINK GROUT AND SEALED WITH "RAMNEK" SEALER.
3. THE INTERIOR AND EXTERIOR OF MANHOLE AND THE INTERIOR OF THE ADJUSTMENT RINGS SHALL BE JOINED AND SEALED WITH "RAMNEK" SEALER.
4. MANHOLE AND DROP ASSEMBLY SHALL BE REQUIRED FOR 4" OR LARGER INFLUENT PIPES WITH 2 FOOT OR GREATER INFLUENT DROP.
5. ALL M/H JOINTS BELOW THE TOP CONE SECTION SHALL INCLUDE A 6" WIDE (MIN) EXTERIOR JOINT TAPE (W/PRIMER). TAPE ON THE CONE SECTION IS OPTIONAL.
6. PRECAST BASE SECTIONS WITH A BOTTOM SHALL BE INSTALLED ON UNDISTURBED EARTH. BEDDING IS REQUIRED WHEN THE SOIL CONDITIONS ARE WET OR WHEN THE SOIL IS UNSUITABLE. FIELD DETERMINE REQUIRED REMOVAL OF UNSUITABLE MATERIAL TO REACH SUITABLE FOUNDATION. IF UNDERCUTTING OCCURS, THE BOTTOM OF THE TRENCH SHALL BE BROUGHT UP TO THE ORIGINAL GRADE WITH APPROVED MATERIAL AND THOROUGHLY COMPACTED TO A MINIMUM OF 95% MODIFIED PROCTOR.

KEYED NOTE(S):

- (1) UNLESS OTHERWISE NOTED OR SHOWN, FOR NEW MANHOLES, PROVIDE AGRU SURE-GRIP YELLOW 3.0 MM THICK LINER. FOR EACH EXISTING MANHOLE THAT CONNECTS TO NEW FORCE MAIN, PROVIDE RAVEN 405 EPOXY COATING. FURNISH AND INSTALL THESE PRODUCTS AS PER LATEST VERSION OF CITY OF ALACHUA, PUBLIC SERVICES, REQUIREMENTS FOR DESIGN AND CONSTRUCTION.
- (2) THIS CONCRETE BOX INCLUDES PIPING INTEGRALLY CAST AT THE FACTORY.
- (3) INTERIOR: TWO COATS WATER BASED EPOXY COATING. RED INITIAL COAT FOLLOWED BY GRAY FINAL COAT.
- (4) GRAVITY PIPE WITH TOP HALF REMOVED PASSES THROUGH MANHOLE AS PER (216)
- (5) FROM MANHOLE VENDOR. TYPICAL SIZES ARE 2'x2'x2' AND 2'x2'x1'.
- (6) FOR EXISTING MANHOLE, PROVIDE FLOWABLE FILL AROUND JOINT BEND INSTEAD OF PRECAST DROP BOX
- (7) FOR ALL MANHOLES, PROVIDE EXTERIOR COAT AS FOLLOWS: TWO COATS WATER BASED EPOXY COATING. RED INITIAL COAT FOLLOWED BY GRAY FINAL COAT.
- (8) MANHOLE (MH) HEIGHT = RIM ELEVATION MINUS FLOOR ELEVATION. WHEN MANHOLE HEIGHT LESS THAN 20 FEET, PROVIDE 48" DIAMETER. WHEN MANHOLE HEIGHT 20 FEET OR MORE, PROVIDE 72" DIAMETER WITH COVER SIZE AS PER DETAILS (212) (213) (214)



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STANDARD MANHOLE AND DROP, AS REQUIRED
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