



# ***REGIONAL CONSTRUCTION STANDARDS***

**SIXTH EDITION**

**Publication Update 6.17**

(Full Committee Approved Proposed Revision 6.18 –  
Removal of Manhole Steps As Publication Update 6.17)

October 29, 2020

SEE SANITARY SEWER MANHOLE CASTING AND COVER (24") DETAILS

SEE NOTE 6

PRECAST CONCRETE ADJUSTMENT RING (TYP) RINGS TO BE COATED AND SEALED SMOOTH ON ALL INSIDE SURFACES, 3/8" THICK (MIN.) WITH HYDRAULIC CEMENT HIGH STRENGTH GROUT.

MANHOLE CASTING AND ADJUSTMENT RINGS TO BE SET & EMBEDDED IN BUTYL JOINT MATERIAL AND CAPPED WITH HYDRAULIC CEMENT GROUT OVER FRAME FLANGE, ADJUSTMENT RINGS AND SECTION.

JOINT SEAL TO BE IN ACCORDANCE WITH SPECIFICATIONS SECTION 200. GROUT INSIDE AND OUT AFTER INSTALLATION W/ HYDRAULIC CEMENT GROUT.

LATERALS (TYP) SEE NOTE NOTE: WHEN LATERALS ENTER THE MANHOLE LESS THAN 3" ABOVE THE FILLET, A CHANNEL SHALL BE PROVIDED FROM PIPE INVERT TO MANHOLE INVERT. WHEN MAINLINE INLET PIPE ENTERS MANHOLE ABOVE BENCH, A FILLET SHALL BE PROVIDED IN ACCORDANCE WITH STATE SEWERAGE REGULATIONS.

AS A MINIMUM, MATCH CROWNS OF THE TRIBUTARY SEWERS WITH THE CROWN OF THE MAIN SEWER WHEN DIAMETERS ARE DIFFERENT

FLEXIBLE BOOT CONNECTION PER SPECIFICATION SECTION 200.

SEE SANITARY SEWER MANHOLE INVERT SHAPING DETAIL.

SUPPORT PIPE AND MANHOLE ON 6" MIN. OF COMPACTED #57 STONE (GREATER DEPTHS MAY BE REQUIRED IN POOR SOILS)

25'-0" MAX.

12" MAX.

2' MIN.-4' MAX. SEE NOTE 6

8' MAX. (PER RISER) MULTIPLE RISERS OF VARIOUS SIZES

1'-4" MIN.-8' MAX. BASE UNIT

8" MIN.

8"

24"

4" MIN.

12" MIN.

48" DIA. (SEE NOTE 4)

4" MIN.

12" MIN.

24" DIA. MAX.

4" MIN.

SEE SS\_01, SHEET 2 OF 2 FOR NOTES.

## STANDARD PRECAST CONCRETE MANHOLE W/ EXTENDED MONOLITHIC BASE

NOT TO SCALE

REVISED 8/20

REFERENCE  
200,802

CATEGORY  
SANITARY SYSTEMS

DATE  
6/16

SHEET No.  
1 OF 2

DETAIL No.  
SS\_01

**NOTES:**

1. PRECAST CONCRETE MANHOLE TO BE IN COMPLIANCE WITH ASTM C-478.
2. WALL THICKNESS TO BE 5" MINIMUM FOR 48" INSIDE DIAMETER MANHOLES AND 6" MINIMUM FOR 60" INSIDE DIAMETER MANHOLES.
3. INSIDE DIAMETER OF MANHOLE MUST INCREASE TO 60" WHEN MANHOLE DEPTH IS GREATER THAN 12 FEET. 60" DIAMETER TO BE CONTINUOUS UP TO CONE SECTION.
4. MAXIMUM OF FOUR LATERALS PER MANHOLE.
5. IF LATERALS ARE TO ENTER INTO THE ECCENTRIC TAPER UNIT, THEY MUST ENTER ON THE NON-TAPERED SIDE.
- △ 6. MANHOLE STEPS ARE NOT REQUIRED UNLESS SO DESIGNATED IN LOCALITY SPECIAL PROVISIONS.

## **STANDARD PRECAST CONCRETE MANHOLE W/ EXTENDED MONOLITHIC BASE**

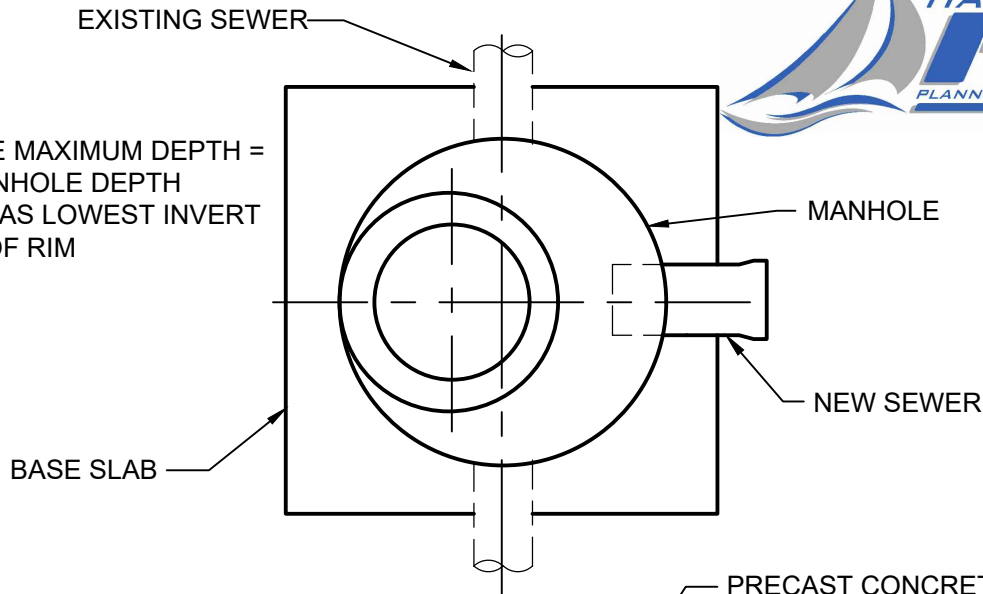
NOT TO SCALE

△ REVISED 8/20

REFERENCE 200,802	CATEGORY SANITARY SYSTEMS	DATE 6/16	SHEET No. 2 OF 2	DETAIL No. SS_01
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**NOTE:**

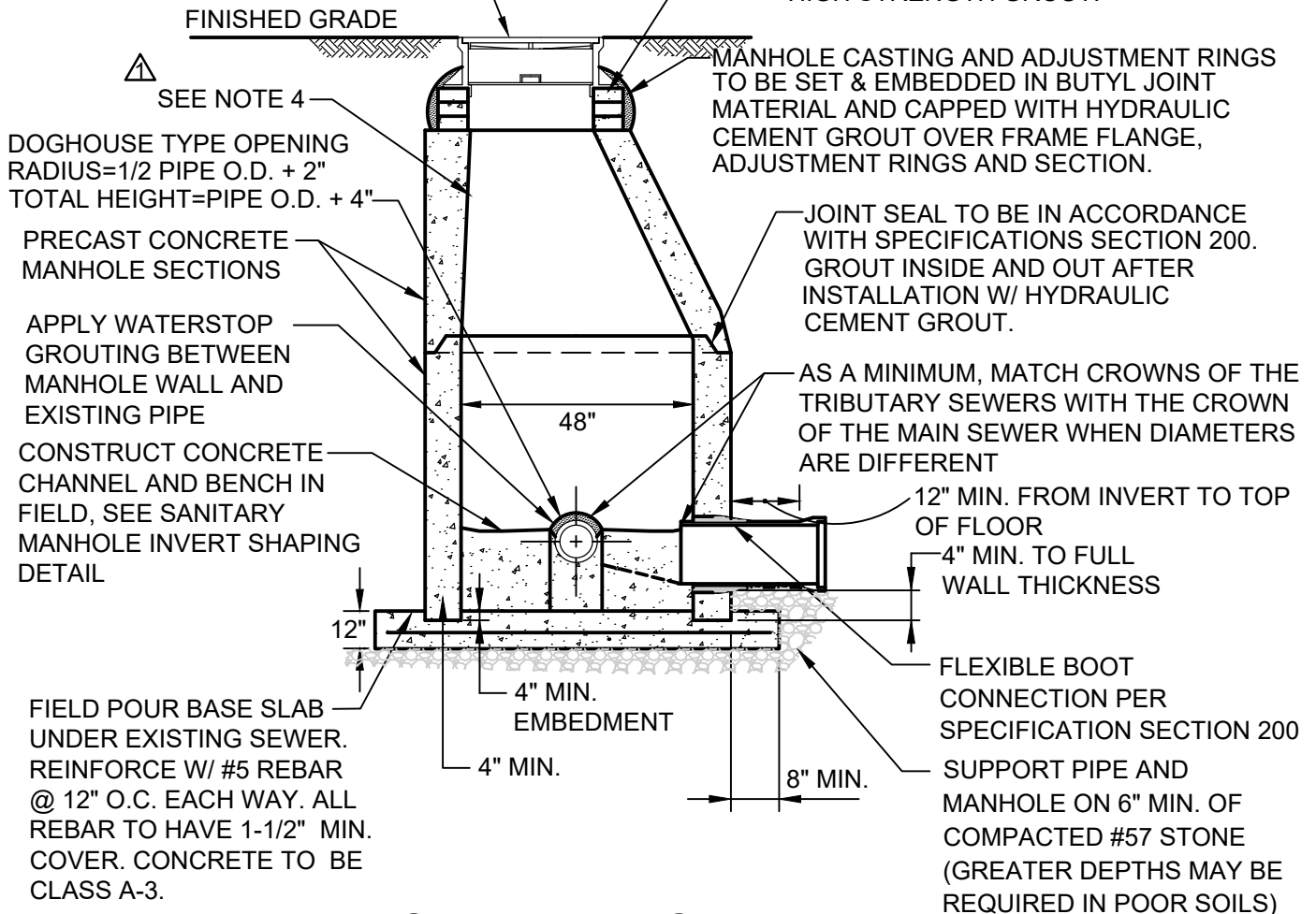
MANHOLE MAXIMUM DEPTH = 25'-0" MANHOLE DEPTH DEFINED AS LOWEST INVERT TO TOP OF RIM



SEE SANITARY SEWER MANHOLE CASTING AND COVER (24") DETAILS

**PLAN**

PRECAST CONCRETE ADJUSTMENT RING (TYP) RINGS TO BE COATED AND SEALED SMOOTH ON ALL INSIDE SURFACES, 3/8" THICK (MIN.) WITH HYDRAULIC CEMENT HIGH STRENGTH GROUT.



**SANITARY SEWER  
STRADDLE MANHOLE**

NOT TO SCALE

△ REVISED 8/20

REFERENCE  
200,802

CATEGORY  
SANITARY SYSTEMS

DATE  
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SHEET No.  
1 OF 2

DETAIL No.  
SS\_03

NOTES:

1. PRECAST MANHOLE TO BE IN COMPLIANCE WITH ASTM C-478.
2. WALL THICKNESS TO BE 5" MINIMUM FOR 48" INSIDE DIAMETER MANHOLES AND 6" MINIMUM FOR 60" INSIDE DIAMETER MANHOLES.
3. INSIDE DIAMETER OF MANHOLE MUST INCREASE TO 60" WHEN MANHOLE DEPTH IS GREATER THAN 12 FEET. 60 INCH DIAMETER TO BE CONTINUOUS UP TO CONE SECTION.
4. MANHOLE STEPS ARE NOT REQUIRED UNLESS SO DESIGNATED IN LOCALITY SPECIAL PROVISIONS  
△

## SANITARY SEWER STRADDLE MANHOLE

NOT TO SCALE

△ REVISED 8/20

REFERENCE  
200,802

CATEGORY  
SANITARY SYSTEMS

DATE  
6/16

SHEET No.  
2 OF 2

DETAIL No.  
SS\_03