



REGIONAL CONSTRUCTION STANDARDS

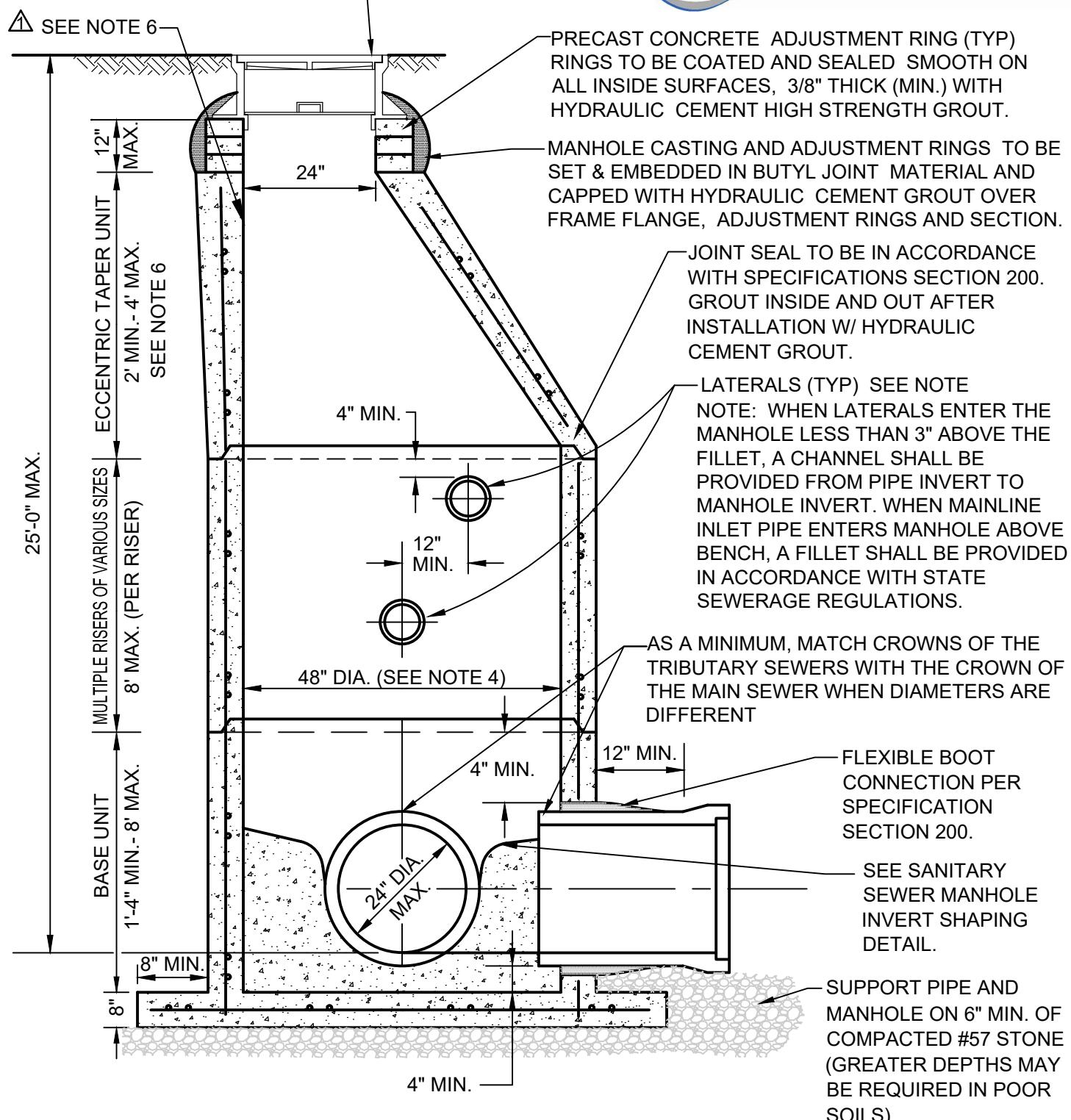
SIXTH EDITION

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 SS_01, SHEET 2 OF 2 FOR NOTES.

STANDARD PRECAST CONCRETE MANHOLE W/ EXTENDED MONOLITHIC BASE

NOT TO SCALE

△ REVISED 8/20



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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EXISTING SEWER



NOTE:

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

BASE SLAB

MANHOLE

NEW SEWER

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.

FINISHED GRADE



SEE NOTE 4

DOGHOUSE TYPE OPENING
RADIUS=1/2 PIPE O.D. + 2"
TOTAL HEIGHT=PIPE O.D. + 4"

PRECAST CONCRETE
MANHOLE SECTIONS

APPLY WATERSTOP
GROUTING BETWEEN
MANHOLE WALL AND
EXISTING PIPE

CONSTRUCT CONCRETE
CHANNEL AND BENCH IN
FIELD, SEE SANITARY
MANHOLE INVERT SHAPING
DETAIL

FIELD POUR BASE SLAB
UNDER EXISTING SEWER.
REINFORCE W/ #5 REBAR
@ 12" O.C. EACH WAY. ALL
REBAR TO HAVE 1-1/2" MIN.
COVER. CONCRETE TO BE
CLASS A-3.

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.

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

12" MIN. FROM INVERT TO TOP
OF FLOOR

4" MIN. TO FULL
WALL THICKNESS

48"

4" MIN.
EMBEDMENT

8" MIN.

FLEXIBLE BOOT
CONNECTION PER
SPECIFICATION SECTION 200
SUPPORT PIPE AND
MANHOLE ON 6" MIN. OF
COMPAKTED #57 STONE
(GREATER DEPTHS MAY BE
REQUIRED IN POOR SOILS)

SANITARY SEWER STRADDLE MANHOLE

NOT TO SCALE

△ REVISED 8/20

REFERENCE
200,802

CATEGORY
SANITARY SYSTEMS

DATE
6/16

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
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**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
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