MANHOLES

STANDARD PLAN NO. M-604-20

Sheet No. 2 of 3

MANHOLE RISER DETAIL

4" MIN. CLASS B CONCRETE. REINFORCING CONFORMING TO ASTM C 476

4" MIN. CLASS B CONCRETE. REINFORCING CONFORMING TO ASTM C 476

MANHOLE RING AND COVER

SECTION D-D

SECTION B-B

IN UNPAVED AREA USE CEMENT GROUT

MANHOLE RING AND COVER (ROW ELEVATION)

A FINAL GRADE

MANHOLE RING AND COVER (ROW ELEVATION)

A FINAL GRADE

PRECAST MANHOLE BASES NOTES:
1. THE BASE SLAB SHALL BE POUREDモノトミス with the BOTTOM RISER SECTION.
2. PRECAST MANHOLE BASES SHALL FIT THE DIMENSIONS AND LOCATIONS FOR WHICH THEY ARE INTENDED WITHOUT ANY FIELD MODIFICATIONS, ANY MANHOLE SKILL WHICH REQUIRES FIELD CUTTING OR MODIFICATION IN ORDER TO FIT THE LOCATIONS INTENDED WILL BE REJECTED BY THE ENGINEER AND REPLACED BY THE CONTRACTOR AT NO COST TO THE DEPARTMENT.
3. PRECAST MANHOLE BASES SHALL BE BIDED ON AN APPROVED CRANIAL BEDDING MATERIAL AS SHOWN ABOVE.

MANHOLE RING AND COVER

SECTION A-A

TOTAL WEIGHT APPROXIMATELY 400 LBS. SHALL BE GRAY OR DUCTILE CAST IRON IN ACCORDANCE WITH SUBSECTION 712.00.

SECTION C-C

CAST-IN-PLACE SLAB BASE

SECTION E-E

PRECAST SLAB BASE

FLOW CHANNEL

FLOW

FLOW

FLOW

FLOW

FLOW
MANHOLES

STANDARD PLAN NO.
M-604-20

MANHOLE T-BASE

CIRCULAR RIGID PIPE
(LONGITUDINAL SECTION)

CIRCULAR RIGID PIPE
(TRANSVERSE SECTION)

T-BASE MANHOLES NOTES

1. The T-BASE section shall be shop-fabricated for delivery to the construction site as a complete unit.

2. These details show only the conceptual and standard dimensional requirements for T-BASE manholes. The contractor shall furnish detailed shop drawings for approval. Prior to fabrication, the details shown herein apply only to 48 in. and greater diameter pipes.

3. Except for classes of pipe, specifications for the manhole shall be the same as those required for the adjoining pipe.

4. The T-BASE section shall maintain its internal shape and flow area. Grouting or filling shall be applied so as to not disturb the normal flow or reduce the area.

SECTION F-F

ADJUST MANHOLE 20 IN. OR LESS

CONCRETE COLLAR OR FULL-DEPTH HMA PATCHING
SHALL BE IN ACCORDANCE WITH
SECTIONS 403 OR 412

SECTION F-F

MODIFY MANHOLE GREATER THAN 20 IN.

CONCRETE COLLAR
OR FULL-DEPTH HMA
PATCHING

BROCK COURSES,
2 MIN. 4 MAX. OR
PRECAST CONCRETE
CIRCULAR RINGS

BROCK COURSES,
2 MIN. 4 MAX. OR
PRECAST CONCRETE
CIRCULAR RINGS

CONCRETE COLLAR
OR FULL-DEPTH HMA
PATCHING

BROCK COURSES,
2 MIN. 4 MAX. OR
PRECAST CONCRETE
CIRCULAR RINGS

BROCK COURSES,
2 MIN. 4 MAX. OR
PRECAST CONCRETE
CIRCULAR RINGS

MOISTURE THICKNESS MAY BE NONMETRIC, TO MATCH CROSS SLOPE OF HMA.

CONCRETE COLLAR
OR FULL-DEPTH HMA
PATCHING

PRECAST RISER SECTIONS

PRECAST RISER SECTIONS

MORTAR MIXTURE MAY BE NONMETRIC, TO MATCH CROSS SLOPE OF HMA.

MORTAR MIXTURE MAY BE NONMETRIC, TO MATCH CROSS SLOPE OF HMA.

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