

MANHOLE FRAME & COVER:
ASTM A-48, LATEST EDITION, CLASS 35 WITH 24" DIAMETER FRAME.

IN TRAFFIC AREAS:
7" MIN. HGT., EQUAL TO EAST JORDAN 1022 OR EQUAL WITH HEAVY DUTY COVER, MACHINED BEARING SURFACE & CONCEALED LIFT HOLES. (SET LID FLUSH WITH FINISHED STREET SURFACE).

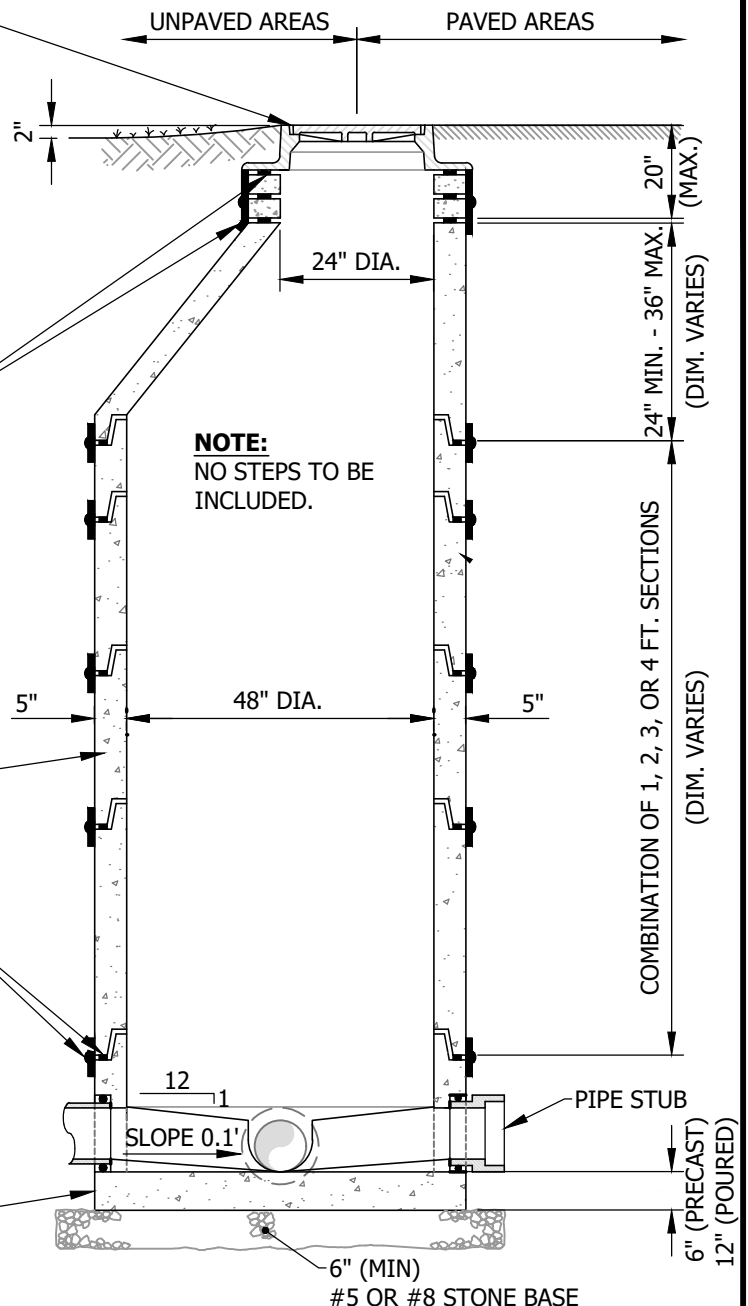
IN NON-TRAFFIC AREAS:
7" HGT., EQUAL TO EAST JORDAN 1022 WITH MEDIUM DUTY COVER, MACHINED BEARING SURFACE & CONCEALED LIFT HOLES. SET TOP 2" ABOVE GRADE (AFTER EARTH SETTLEMENT).

CONCRETE GRADING RINGS:
MAXIMUM OF TWO RINGS
3", 4", 6" HEIGHTS
(SEAL BETWEEN CASTING AND EACH RING WITH 1 1/4" PREFORMED BUTYL RUBBER SEALANT MEETING ASTM C-990. MINIMUM SIZE 3/4".)
PRIME EXTERIOR OF JOINTS WITH BITUMINOUS PRIMER PRIOR TO WRAPPING. ALL JOINTS SHALL HAVE EXTERIOR JOINT WRAP MEETING THE REQUIREMENTS OF ASTM C-877.

PRECAST CONE AND RISER SECTIONS:
ASTM C-478, 4000 P.S.I. CONCRETE.

JOINTS:
JOINTS SHALL BE SEALED WITH 1 1/4" PREFORMED BUTYL MASTIC MEETING ASTM C-990.
PRIME EXTERIOR OF JOINTS WITH BITUMINOUS PRIMER PRIOR TO WRAPPING. ALL JOINTS SHALL HAVE EXTERIOR JOINT WRAP MEETING THE REQUIREMENTS OF ASTM C-877, MINIMUM 6" WRAP.
IN INSTANCES WHERE JOINT IS BELOW WATER TABLE, JOINT SHALL BE A CONTROLLED EXPANSION WATER SEAL EQUAL TO CONSEAL CS-231.

PRECAST BASE SECTION:
BASE SECTION WITH RESILIENT PIPE TO MANHOLE CONNECTOR MEETING ASTM C-923.
SMOOTH INVERT CHANNELS SHALL BE SHAPED TO A DEPTH OF A FULL INSIDE PIPE DIAMETER.
THE MANHOLE SHELF SHALL SLOPE TOWARD THE CHANNEL AT A 12:1 SLOPE.
THE MANHOLE BASE SECTION SHALL BE PLACED ON A #5 OR #8 STONE BASE WITH A MINIMUM COMPACTED DEPTH OF 6". THE STONE BASE SHALL OVERHANG THE BASE SECTION BY A MINIMUM OF 6".



NOTES:

1. ALL MANHOLE LIDS SHALL BEAR "SANITARY SEWER" MOLDED INTO THE EXTERIOR SURFACE.
2. WATERTIGHT CASTINGS EQUAL TO EJ 1022-WT CASKETED AND BOLT DOWN LIDS REQUIRED AS NOTED.
3. ALL PRECAST CONCRETE SHALL CONTAIN WATERPROOFING ADDITIVE, XYPEX OR EQUIVALENT.
4. ALL PRECAST CONCRETE FOR FORCE MAIN RECEIVING MANHOLES AND ALL NEW MANHOLES WITHIN 500 FEET UPSTREAM OR DOWNSTREAM OF THE RECEIVING MANHOLE SHALL CONTAIN ANTI-CORROSION ADDITIVE, CONSHIELD OR EQUIVALENT.

File: J:\ENGINEER\AUTOCAD Standards\Detail Drawings\Sewer\WW-018 Standard 48in Manhole.dwg



STANDARD PRECAST 48" MANHOLE

Approved: 02/28/17

Approved By: Michael D. Labitzke, P.E.

Adopted: 02/28/17

Scale: N.T.S.

Figure

WW-01