

SP00470 (Special Provisions for the 2024 Book)

(Bidding on or after: 09-01-26

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Requires SP00440, SP02410, SP02415,
SP02420, SP02450 & SP02510

Requires SP02440 when grout or joint material is required)

SECTION 00470 - MANHOLES, CATCH BASINS, AND INLETS

(Follow all instructions and make all edits with "Track Changes" turned on. If there are no instructions [purple text] above a subsection, paragraph, sentence, or bullet, then include it in the project. Delete all purple text before preparing the final document. All other modifications to this Section will require ODOT Technical Resource and State Specifications Engineer approval.)

Comply with Section 00470 of the Standard Specifications modified as follows:

00470.01 Cast-in-Place and Precast Construction - Replace this subsection, except for the subsection number and title, with the following:

Furnish concrete manholes that are cast-in-place or precast, as shown or specified. Concrete inlets and siphon boxes may be either cast-in-place or precast.

00470.11 Precast Concrete Manholes and Bases - Replace the paragraph that begins "Prior to delivery of precast ..." with the following paragraph:

Prior to delivery of precast manhole sections to the Project Site, yard permeability tests may be required at the point of manufacture. The precast sections to be tested are selected at random from the stockpiled Material to be supplied to the Project. Mat test all test specimens to meet the permeability test requirements of ASTM C497.

Replace the paragraph that begins "Precast manhole sections ..." with the following paragraph:

Furnish precast manhole sections that consist of circular sections in one of the following standard nominal inside diameters:

Replace the paragraph that begins "Heights of sections in ..." with the following paragraph:

Furnish heights of sections in multiples of 6 inches, except heights of manhole sections 72 inches through 96 inches in diameters are required to fit site conditions.

00470.12 Cap Screws - Replace this subsection, except for the subsection number and title, with the following:

Furnish cap screws and washers for watertight manhole covers that are stainless steel with 60,000 psi minimum tensile strength according to the requirements of ASTM A453.

00470.14 Pipe and Fittings - Replace this subsection, except for the subsection number and title, with the following:

Furnish pipe and fittings as specified and according to the applicable portions of Section 00445. Use tees, ells and other fittings for drop manholes made from the same material as the pipe connecting to the manhole.

00470.15 Pipe Stubouts for Future Sanitary Sewer Connections - Replace this subsection, except for the subsection number and title, with the following:

Furnish pipe stubouts that are the same type and strength classification as approved for use in the lateral, main or trunk sewer construction. Where there are two different classes of pipe at a manhole, the higher strength pipe will govern strength classification. Furnish watertight plugs with each stubout and adequately brace against hydrostatic or air test pressures.

00470.16 Sanitary Sewer Manhole Carry-Through - Replace this subsection, except for the subsection number and title, with the following:

Furnish ductile iron for all sanitary sewer carry-through pipes and fittings through storm sewer manholes according to Section 02420.

00470.40(b) Pipe Connections - Replace the paragraph that begins "Connect flexible pipe to manholes ..." with the following paragraph:

Connect flexible pipe to manholes using an adapter specifically manufactured for the intended service. Flexible pipe adapters are required to be watertight after installation. Follow the manufacturer's recommendations. Do not use field-fabricated water stops or improvised adapters. Anchor and finish adapters requiring the use of grout for installation using non-shrink grout according to 02440.50.

00470.43(b) Cast-in-Place Catch Basins and Inlets - Replace the paragraph that begins "Construct forms for both ..." with the following paragraph:

Construct forms for both the inside and outside walls of cast-in-place catch basins. Furnish forms that are tight and well braced, with chamfered corners. Remove all water and debris prior to placing concrete.

00470.47 Concrete Inlet Base Drains - Replace the paragraph that begins "Provide concrete inlets ..." with the following paragraph:

Furnish concrete inlets with base drains leading from abutting Aggregate base or selected granular backfill Material.

00470.48 Concrete Manhole Installation Requirements - Replace this subsection with the following subsection:

00470.48 Locator Posts - Construct locator posts as shown.

00470.71(a) Hydrostatic Testing - Replace this subsection, except for the subsection number and title, with the following:

Perform hydrostatic testing according to ASTM C497. Plug all inlets and outlets and fill the manhole with water. Fill each manhole to the rim at the start of the test. Leakage in each

manhole exceeding 0.3 gallons per hour per foot of head above the invert is unacceptable. Determine leakage by refilling to the rim using a calibrated container. Manholes may be filled 24 hours prior to the time of testing to permit normal absorption into the manhole walls.

00470.90 Payment - Replace the paragraph that begins "In items (c), (d) and ..." with the following paragraph:

In items (c), (d) and (k) the type of Structure is inserted in the blank.

Replace the paragraph that begins "Payment will be payment ..." with the following paragraph:

Payment will be payment in full for furnishing and placing all Materials, and for providing all Equipment, labor and Incidentals necessary to complete the Work as specified.