

**STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION  
SUPPLEMENTAL SPECIFICATION 895  
MANUFACTURED WATER QUALITY STRUCTURE  
April 21, 2006**

**895.01 Description**

**895.02 Materials**

**895.03 Installation**

**895.04 Shop Drawings**

**895.05 Method of Measurement**

**895.06 Basis of Payment**

**895.01 Description.** This work consists of constructing a precast water quality structure, a reinforced concrete slab as required by the shop drawings, manholes as required by the shop drawings, and all necessary conduit connections.

Use all suitable materials in the work. Alternatively legally use, recycle, or dispose of all excavated material according to 105.16 and 105.17.

**895.02 Materials.** Furnish materials conforming to:

Epoxy Reinforcing Steel.....	509
Precast Water Quality Structure.....	SS 995

Furnish a precast water quality structure that is on file with the Office of Materials Management.

**895.03 Installation.** Install the precast water quality structure according to the Manufacturers recommendations within the delineated footprint shown in the plans.

Construct a reinforced concrete slab conforming to 511 as required in the shop drawings.

Construct manholes conforming to 604 within the delineated footprint shown in the plans at the location and elevation shown in the shop drawings.

Construct all necessary conduit connections at the diameter shown in the shop drawings using a Type B conduit conforming to 603.

**895.04 Shop Drawings.** Ten weeks prior to shipping each precast water quality structure to the project, furnish six copies of the construction shop drawings to the Office of Structural Engineering. Provide shop drawings on 8.5 x 11-inch (216 x 292 mm) sheets. Allow a minimum of four weeks for approval. Do not ship precast water quality structures to the project prior to receiving approval of the shop drawings from the Office of Structural Engineering.

Ensure the shop drawings include the following:

A. All material specifications.

- B. The Manufacturer's recommended installation procedures.
- C. Plan view of water quality structure, reinforced concrete slab, additional manholes, and the conduit connections to the manholes. Include the delineated footprint as shown in the plans along with the storm sewer and the provided manhole with diversion weir labeled by others.
- D. Elevation view of precast water quality structure, reinforced concrete slab, additional manholes, and the conduit connections to the manholes.
- E. All dimensions. Manhole dimensions shown in the shop drawings that differ from the manhole dimensions in the plans require approval from the Office of Structural Engineering. Ensure manholes conform to 604.
- F. Volume of storm water required to be pumped out of the precast water quality structure for routine maintenance.
- G. Structural design loads including the dead load and live load.
- H. Structural calculations for the reinforced concrete slab if utilized.

**895.06 Method of Measurement.** The Department will measure manufactured water quality structures by the number of each in place, completed and accepted.

**895.07 Basis of Payment.** The Department will pay for accepted quantities at the contract prices as follows:

Item	Unit	Description
895	Each	Manufactured Water Quality Structure, Type ____.

**Designer Note:**

These structures are designed to treat storm water runoff by removing sediment. The structures are being used as a Post Construction BMP to meet requirements of OEPA. The Designer must reference Standard Construction Drawing MH-1.2 and SS 995. Contact the Office of Structural Engineering, Hydraulics Section for design criteria or other information required to design the manufactured water quality structure