

800 WATER SUPPLY & DISTRIBUTION

ITEM 804 - IRON CASTINGS

- 804.01 Description**
- 804.02 Quality**
- 804.03 Workmanship**
- 804.04 Installation**
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- 804.06 Basis of Payment**

804.01 Description. The Contractor shall furnish and place manhole frames and covers, frames around openings, wall pipes, valve boxes and other iron castings shown or which may be found necessary to complete the work, as shown or ordered.

No payment under this item will be made for cast iron pipe, fittings, valves, or valve box castings. *Iron* castings not paid for under Items 807 or 805 will be paid for by weight under this item.

804.02 Quality. All castings shall conform to the "Standard Specifications for Gray Iron Castings, ASTM: A48", except as modified herein. The castings shall be smooth, clean and free from blow holes, shrinkage cracks, cold shuts, scales, lumps, blisters and other defects. Defective castings which have been plugged or filled will be rejected. Before leaving the shop and before rusting begins, all castings shall be thoroughly cleaned and shop coated with an approved asphalt paint.

804.03 Workmanship. All castings shall be made accurately to the dimensions shown, and where marked or otherwise necessary to secure flat and true surfaces, they shall be planed, but allowance shall be made in the patterns so that the finished casting shall have the specified thickness. The meeting surfaces of manhole frames and covers shall be ground true and shall seat at all points. All drilling and tapping shall be carefully done.

804.04 Installation. All castings shall be installed to accurate grade and alignment and shall be carefully supported to prevent movement while concrete or backfill is being placed around them. After the castings have been placed in a satisfactory manner, all foreign adhering substances shall be removed and the castings shall be repainted as necessary.

804.05 Method of Measurement. The weight of iron castings to be paid for shall be the actual weight, weighed after shop painting of the iron castings installed in the work.

No casting will be accepted, the weight of which is less than its standard weight by more than 5 percent, and no allowance for payment will be made for an excess of more

than 2 percent over the total standard weight of the casting. Where the weights of castings are to be determined by computation, the dimensions shown shall be used and one cubic inch (cubic centimeter) of metal shall be assumed to weigh 0.260 pounds (.12 kg).

804.06 Basis of Payment. The price bid per pound (kilogram) for iron castings shall include the furnishing, placing and coating, complete as specified.

Payment will be made at the contract price for:

Item	Unit	Description
804	Pound (Kilogram)	Iron Castings