

ITEM 010150

Item 0101501 - REMOVE MANHOLE

Item 0101502 - REMOVE CATCH BASIN

DESCRIPTION

This item includes the complete removal of existing catch basin or manhole structures, removing or plugging connecting pipes and backfill with bank run gravel to subgrade elevation. Salvageable metal appurtenances including frame and grate, steps, hoods or other items shall be carefully removed and delivered to the Hartford Public Works Yard. Salvageable items, in the opinion of the engineer, that are broken, lost or destroyed shall be disposed of at the expense of the contractor. All construction debris and unusable or unsalvageable material shall become the property of the Contractor and removed from the site.

REFERENCED ITEMS

None

REQUIRED SUBMITTALS

None

MATERIALS

Bank run gravel shall consist of sound tough, durable particles of crushed or uncrushed gravel, free from soft, thick or elongated or laminated pieces and vegetable or other deleterious substances and shall be compacted in 2' lifts. Bank run gravel shall conform to the following gradation.

Square Mesh Sieves	Percent Passing by Weight
1-1/2"	100%
1/4"	30-65
#40	5-30
#100	0-10

CONSTRUCTION METHODS

Pipes that connect to manhole or catch basin that are to be removed shall be bulkheaded with approved material. Remote ends of pipes to be abandoned shall be permanently sealed with brick and mortar to the satisfaction of the Metropolitan District Commission and the Engineer. Pipes to be removed shall be completely

excavated and removed from the site. The excavated trench shall be backfilled with bank run gravel and compacted in lifts not to exceed 2'.

The Contractor shall furnish all labor equipment, materials and incidentals necessary and required for the abandonment and removal of the existing manhole and bulkheading of pipe connections at ends or removing the pipe as called for on the drawings. Material removed other than the frame and grate shall become the property of the Contractor, and shall be disposed off the site. The frame and grate shall be delivered to the Public Works Yard at no extra cost to the City.

METHOD OF MEASUREMENT

The removal of manholes will be measured for payment by the total number of individual manholes or catch basins removed and backfilled in accordance with this specification.

BASIS OF PAYMENT

Payment will be made at the contract unit price per each "REMOVE MANHOLE" OR "REMOVE CATCH BASIN" complete, which price shall include all excavation, disposal of excavated material, bulkheading of piping, delivery of manhole frame & cover to Public Works Yard, backfill, equipment, tools, materials, labor and incidental expenses.

<u>PAY ITEM</u>	<u>DESCRIPTION</u>	<u>PAY UNIT</u>
0101501	Remove Manhole	EA
0101502	Remove Catch Basin	EA