WATER DISTRICT

of the situation.
PLAN
of the situation of the
WATER WORKS
for the
DISTRICT OF COLUMBIA

Note: The route from Edes’ Mill is longer, consequently more expensive than the ‘Prefered Project,’ from Mason’s Foundry.
AQUEDUCT PLAN.
AS REPORTED IN 1852 AND 1853 FROM SURVEYS OF GOVERNMENT—MILITARY ENGINEERS.

Grade of the Aqueduct, fall of 1 foot per mile, (14 miles,) hence as the Dome of the Capitol is 240 feet above the level of the Potomac, and the Great Falls above the latter 161 feet, the Aqueduct falls short of overtoping the Capitol by 93 feet. (To overcome which will require much extra machinery, at a great expense.)

The Aqueduct water will be subject to all sorts of impurities, as the Croton water is; and, according to the estimates of experienced civil engineers, the Aqueduct will require five years to construct, at a cost of from $5,000,000 to $7,000,000.

It proposes to supply 67,596,400 gallons of water per day, by a tunnel of 9 feet diameter, and 14 miles in length, constructed of brick and cement.

The Tunnel will convey the water to Washington, and will require extra machinery to elevate it. Solomon's plan will convey the water through Washington without extra machinery.

SALOMON'S PLAN.
FROM SURVEYS BY CIVIL ENGINEERS IN 1851 AND 1852—BEFORE THE GOVERNMENT SURVEYS.

Reservoirs at an elevation of 382 feet above the Potomac, or 142 feet above the apex of the Dome of the Capitol.

The work can be completed in two years or less, at an estimated cost of $1,000,000.

It is similar to the Fairmount Water Works, in possessing all of their advantages, but none of their defects.

By mains the water can be conveyed in all directions, and a supply of pure sweet water, gurgling through iron pipes, to any amount the District can ever require, ad infinitum.

If Government should conclude to prosecute the Aqueduct, that need not prevent the adoption and prosecution of Solomon's Plan; as when the former shall have reached the latter it can be turned over to the Government, at a fair valuation, while in the interim the citizens have the enjoyment of pure wholesome water for three years.
SUPPLIES OF CITIES.

PARIS - - - - 22,000,000 Gallons per day.
LONDON - - - - 45,000,000 " "
BOSTON - - - - 10,000,000 " "
NEW YORK - - - - 30,000,000 " "
PHILADELPHIA - - - - 15,000,000 " "
WASHINGTON - - - - 60,000,000 " "

The last by Salomon's plan, (if adopted,) with an indefinite increase, and the water of the Potomac driven through iron pipes and kept in constant rapid motion, as proposed, will be far more pure than the water supplied to any of the above named cities, except Philadelphia; and the building lot on the highest elevations in the District of Columbia can be watered by this plan without any extra machinery; and retentive reservoirs, or reservoirs for storage, of any required quantity, can be constructed at any time at light cost.

Of course, from the immense "head" the water will attain, and the vast quantities in which it will flow, all the purposes of Sewerage, Manufacturing, Fountains, in public and private grounds, baths, and all household uses, will be amply provided.
SECTIONAL PROFILES (On the longest line)

LONGITUDINAL PROFILE

Horizontal Scale 1.7700