

HONDIUS WATER SYSTEM OPINION OF COSTS

	Public Improvement Item	Units	Unit Cost	Est. Qty.	Item Cost
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1 General Overhead Costs

Mobilization	LS	\$15,000.00	1	\$15,000.00
Traffic Control - Signs, barricades, etc.	LS	\$8,000.00	1	\$8,000.00
Permitting	LS	\$2,500.00	1	\$2,500.00
Notifications	LS	\$1,500.00	1	\$1,500.00
Clear & Grub	LS	\$10,000.00	1	\$10,000.00
Hazardous Mat'l Survey - Existing Storage	LS	\$2,500.00	1	\$2,500.00

Subtotal 1 General Overhead Costs

\$39,500.00

2 Base Water System

Ground Level Water Storage Tank w/valves	LS	\$550,000.00	1	\$550,000.00
Pump Station includes pumps and wiring	LS	\$85,000.00	1	\$85,000.00
Excavate/Backfill-95% compaction-6' deep	LF	\$45.00	14600	\$657,000.00
8" Ductile Iron Pipe with casing	LF	\$25.00	14600	\$365,000.00
8" x 8" x 8" Tee with Thrust Block	EA	\$2,500.00	12	\$30,000.00
8" - 90 degree bend with Thrust Block	EA	\$1,150.00	2	\$2,300.00
8" - 45 degree bend with Thrust Block	EA	\$1,150.00	14	\$16,100.00
8" - 22 1/2 degree bend with Thrust Block	EA	\$1,150.00	13	\$14,950.00
8" Gate Valve with Box	EA	\$3,000.00	20	\$60,000.00
Rock Excavation /Blasting through rock	LF	\$35.00	6700	\$234,500.00
Pipe Bedding at rock excavation	CY	\$118.00	1000	\$118,000.00
Fire Hydrant Assembly(hydrant, valve, & pipe)	EA	\$17,000.00	24	\$408,000.00
Road Base for road repair	CY	\$28.00	2940	\$82,320.00
Adjust Valve Boxes	EA	\$200.00	20	\$4,000.00

Subtotal 2 Base Water Main

\$2,627,170.00

3 Other Water System Items

Service line Extension to edge of road	EA	\$400.00	100	\$40,000.00
Service line tap and connect to new line	EA	\$300.00	100	\$30,000.00
possible utility crossings (gas, elec., phone)	EA	\$500.00	20	\$10,000.00
Erosion Control	LS	\$2,500.00	1	\$2,500.00
Pressure Test, Chlorinate, Flush, & Bacteria T	LS	\$9,500.00	1	\$9,500.00

Subtotal 2C Other Water System Items

\$92,000.00

6 System Design

Existing System Locates	LS	\$10,000.00	1	\$10,000.00
Existing System Potholing (airknife)	LS	\$15,000.00	1	\$15,000.00
Design Survey	LS	\$20,000.00	1	\$20,000.00
Design Geotechnical Investigation	LS	\$10,000.00	1	\$10,000.00
Engineering Design	LS	\$50,000.00	1	\$50,000.00

Subtotal 6 Design Services

\$105,000.00

CONSTRUCTION PERIOD SERVICES

7 Material Testing

LS	\$17,500.00	1	\$17,500.00
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Subtotal 7 Material Testing

\$17,500.00

8 Construction Staking

LS	\$22,500.00	1	\$22,500.00
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Subtotal 8 Construction Stakinig

\$22,500.00

9 Construction Administration

LS	\$20,000.00	1	\$20,000.00
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Subtotal 9 Construction Administration

\$20,000.00

10 Record Drawings

LS	\$2,500.00	1	\$2,500.00
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Subtotal 10 Record Drawings

\$2,500.00

Sub-Total Construction Period Services

\$62,500.00

11 USDA Audit required for one year \$15,000.00

12 USDA on-site observation during construction \$50,000.00

SUB-TOTAL OF PUBLIC IMPROVEMENTS: \$2,991,170.00

Additional 15% of Highest Sub-Total: \$448,675.50

GRAND TOTAL OF PUBLIC IMPROVEMENTS: \$3,439,845.50

ASSUMING EXISTING 80 TAPS OF AN APPROXIMATE 140 POSSIBLE TAPS

COST PER TAP =	\$42,998.07
ANNUAL COST AT 3.0% FOR 40 YEARS =	\$1,861.82
ANNUAL COST AT 3.25% FOR 40 YEARS	\$1,939.21
ANNUAL COST AT 3.50% FOR 40 YEARS	\$2,094.01

ASSUMING 100 TAPS OF AN APPROXIMATE 140 POSSIBLE TAPS

COST PER TAP =	\$34,398.46
ANNUAL COST AT 3.0% FOR 40 YEARS =	\$1,489.45
ANNUAL COST AT 3.25% FOR 40 YEARS	\$1,551.37
ANNUAL COST AT 3.50% FOR 40 YEARS	\$1,675.20

The Approximate difference for a single additional user at the different rates would be as follows:

ASSUMING 101 TAPS OF AN APPROXIMATE 140 POSSIBLE TAPS

COST PER TAP =	\$34,057.88	
ANNUAL COST AT 3.0% FOR 40 YEARS =	\$1,474.71	DIFFERENCE -\$14.75
ANNUAL COST AT 3.25% FOR 40 YEARS	\$1,536.01	-\$15.36
ANNUAL COST AT 3.50% FOR 40 YEARS	\$1,658.62	-\$16.59