ENGINEER'S ESTIMATE

PROJECT: Wastewater System Improvements Project

CLIENT: Village of Three Oaks

DATE: October, 2022

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Planning Costs		
Planning Work Completed to Date	\$	106,000
Work Plan for Sludge Removal	\$	4,500
Round 3 of High Strength Users Investigation and Final Report	\$	5,000
Workplan and Report for Lagoon Soils Investigation	\$ \$ \$ \$	5,000
Collection System Assessment	\$	50,000
Collection System CCTV	\$	175,000
Update to lagoon Inspections	\$ \$ \$	3,500
Legal Fees for Sewer Ordinance and ACO Negotiations	\$	15,000
Create Sewer System Asset Management Plan		40,000
Project Plan and EGLE CWSRF Application	\$	45,000
Design Engineering Costs		
Assumed at 9%	\$	263,000
Legal/Financial Services Fees		
Assumed at 2%	\$	59,000
Admininistrative Costs		
Assumed amount	\$	1,500
Bond Counsel Fees		
Assumed at 1%	\$	30,000
Bond Advertising Costs		
Assumed amount	\$	3,000
Bid Advertising Costs		
Assumed amount	\$	1,000
Construction Engineering Costs		
Assumed at 11%	\$	321,000
Construction Costs		
Miscellaneous Lagoon Improvements	\$	47,500
Lagoon Bank Erosion Repair	\$	587,520
Lagoon Aeration System - Per Nexom Quotation	\$	560,000
Blower Building & Internal Air Supply Header	\$ \$ \$	154,280
Air Supply Piping & Associated Site Work		113,290
Screening	\$	348,060
Electrical	\$ \$ \$ \$ \$	172,960
Permanent Bypass Pump	\$	93,440
Lift Station Improvements	\$	130,000
Collection System Pipe Lining:	\$	285,000
Lift Station Rehabilitation		300,000
Manhole Improvements	\$	125,000
Project Contingencey	•	000 450
10% of All Costs	\$	323,450

TOTAL ESTIMATED CWSRF BOND AMOUNT:

\$

4,368,000