

September 4, 2007

Honorable Mayor and Members of
The Hermosa Beach City Council

Regular Meeting of
September 11, 2007

**PROJECT NO. CIP 07-422 UPDATE SEWER MASTER PLAN AND PREPARATION OF
MUNICIPAL SEWER MANAGEMENT PLAN - PROFESSIONAL SERVICES AGREEMENT**

Recommendation:

It is recommended that the City Council:

1. Award Professional Services Agreement to MBF Consulting, Inc. to provide engineering services for CIP No. 07-422 in the amount of \$61,000;
2. Authorize the Mayor to execute and the City Clerk to attest the attached Professional Services Agreement subject to approval by the City Attorney; and

Background:

Project No. CIP 07-422 Update Sewer Master Plan and Preparation of Municipal Sewer Management Plan – This project is budgeted in fiscal year 2007-08 to satisfy Waste Discharge Requirements mandated by the State Water Resources Control Board (SWRCB). MBF Consulting, Inc. has provided cost effective and timely design services for various sewer projects including providing construction management for construction of the sewer pump station at 35th Street at The Strand. MBF Consulting, Inc. is the most familiar firm with the City's aging Sanitary Sewer System and has reviewed the existing sewer system including preparation of video inspection document and current Sanitary Sewer Overflow (SSO) reporting program and assisted the City with application for SSO coverage for (SWRCB) regulations. Therefore staff recommends award of this Professional Services Agreement to MBF Consulting, Inc. for a negotiated engineering services fee of \$61,000.

Analysis:

The Scope of Services consists of the following:

- A. UPDATE EXISTING SEWER MASTER PLAN
 1. Evaluation of Existing Wastewater Collection Systems
 2. Determination and Prioritization of Proposed Improvements
 3. Development of Rehabilitation Schedule and Funding Plan
 4. Existing Sewer Master Plan Update Report

B. SANITARY SEWER MANAGEMENT PLAN PREPARATION

1. Need Assessment Analysis
2. Program Development / Implementation
3. Complete Document Preparation and Schedule

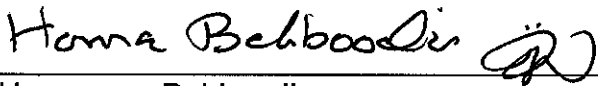
The complete Scope of Services can be found in Exhibit A of the attached Professional Services Agreement.

Fiscal Impact:

Funding is already budgeted in the FY 07-08 Capital Improvement Program.


Attachments:
Professional Services Agreement

Respectfully submitted,



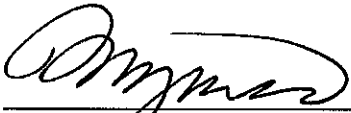
Homayoun Behboodi
Associate Engineer

Noted for Fiscal Impact:




Viki Copeland
Finance Director

Concur:



Richard D. Morgan, P.E.
Director of Public Works/City Engineer

Concur:



Stephen R. Burrell
City Manager

PROFESSIONAL SERVICES AGREEMENT

THIS AGREEMENT, made and entered into this 11th day of September, 2007 at Hermosa Beach, County of Los Angeles, State of California, by and between the CITY OF HERMOSA BEACH, through its Director of Public Works, thereafter called the CITY, and MBF Consulting, Inc., hereinafter called the CONSULTANT.

WITNESSETH: That the CONSULTANT for and in consideration of the covenants, conditions, agreements, and stipulations of the CITY herein expressed, does hereby agree to furnish to the CITY professional services and materials, as follows:

ARTICLE I - Scope of Work

CONSULTANT shall perform all work necessary to complete in a manner satisfactory to CITY the services set forth in the Scope of Work of the Sewer Master Plan Update and Municipal Sewer Management Plan Preparation set forth in the attached proposal (Exhibit A).

ARTICLE II - Costs

The CITY agrees to pay CONSULTANT for all the work or any part of the work performed under this Agreement at the rates and in the manner established in the attached Fee Schedule, Exhibit B.

Total expenditure made under this contract shall not exceed the sum of \$61,000. This fee includes all expenses, consisting of all incidental blueprinting, photography, travel, and miscellaneous costs, estimated to be accrued during the life of the contract. It also includes any escalation or inflation factors anticipated. No increase in fees will be allowed during the life of the contract.

Any increase in contract amount or scope shall be by express written amendment approved by the CITY and CONSULTANT.

The CONSULTANT will be reimbursed for costs incurred in the performance hereof as are allowable under the provisions of Part 1-14 of the Federal Procurement Regulations.

ARTICLE III - Method of Payment

CONSULTANT shall be reimbursed monthly in arrears based upon the hourly services provided. CONSULTANT shall submit invoices in triplicate and addressed to the CITY, c/o the Finance Department, 1315 Valley Drive, Hermosa Beach, CA 90254-3884.

ARTICLE IV - Subcontracting

CONSULTANT shall not be permitted to subcontract any portion of this contract without the express written consent of the CITY.

ARTICLE V - Completion Date

CONSULTANT shall commence work under this agreement upon execution of this agreement and shall complete the work according to the schedule submitted as part of Exhibit "A", however, the CITY's Director of Public Works may extend the completion date as required by the scope of this contract. Any contract time extension shall require the express written consent of the Director of Public Works.

ARTICLE VI - Accounting Records

CONSULTANT must maintain accounting records and other evidence pertaining to costs incurred which records and documents shall be kept available at the CONSULTANT's California office during the contract period and thereafter for three years from the date of final payment of Federal funds hereunder.

ARTICLE VII - Ownership of Data

All data, maps, photographs, and other material collected or prepared under the contract shall become the property of the CITY.

ARTICLE VIII - Termination

This contract may be terminated at any time for breach and the CITY may terminate unilaterally and without cause upon seven (7) days written notice to the CONSULTANT. All work satisfactorily performed pursuant to the contract and prior to the date of termination may be claimed for reimbursement.

ARTICLE IX - Assignability

CONSULTANT shall not assign or transfer interest in this contract without the prior written consent of the CITY.

ARTICLE X - Amendment

It is mutually understood and agreed that no alteration or variation of the terms of this contract, or any subcontract requiring the approval of the CITY, shall be valid unless made in writing, signed by the parties hereto, and approved by all necessary parties.

ARTICLE XI - Non-Solicitation Clause

The CONSULTANT warrants that he or she has not employed or retained any company or persons, other than a bona fide employee working solely for the CONSULTANT, any fee, commission, percentage, brokerage fee, gifts, or any other consideration, contingent upon or resulting from the award or making of this contract. For breach or violation of this warranty, the CITY shall have the right to annul this contract without liability, or, in its discretion to deduct from the contract price or consideration, or otherwise recover, the full amount of such fee, commission, percentage, brokerage fee, gift, or contingent fee.

ARTICLE XII - Equal Opportunity Assurance

During the performance of this contract, the CONSULTANT agrees as follows:

A. The CONSULTANT will not discriminate against any employee or applicant for employment because of race, sex, creed, color or national origin. The CONSULTANT will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, sex, creed, color or national origin. Such action shall include, but not be limited to the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoffs or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The CONSULTANT agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause.

B. The CONSULTANT will, in all solicitations or advertisements for employees placed by or on behalf of the CONSULTANT, state that all qualified applicants will receive consideration for employment without regard to race, sex, creed, color or national origin.

C. The CONSULTANT will permit access to their books, records and accounts by the applicant agency, the State, the Federal Highway Administration and/or the National Highway Traffic Safety Administration for purposes of investigation to ascertain compliance with this nondiscrimination clause.

D. In the event of the CONSULTANT's noncompliance with the nondiscrimination clauses of this contract, this contract may be canceled, terminated or suspended in whole or in part.

ARTICLE XIII - Clean Air Act

During the performance of this Contract, the CONSULTANT agrees to comply with all applicable standards, orders, or regulations issued pursuant to the Clean Air Act of 1970 (42 U.S.C. 1857 et seq.) and the Federal Water Pollution Control Act (33 U.S.C. 1251 et seq.) as amended.

ARTICLE XIV - Indemnity

CONSULTANT agrees to indemnify the CITY, its officers, employees and agents against, and will hold and save each of them harmless from, any and all actions, claims, damages to persons or property, penalties, obligations or liabilities that may be asserted or claimed by any person, firm, entity, corporation, political subdivision or other organization arising out of the negligent acts or intentional tortious acts, errors or omissions of CONSULTANT, its agents, employees, subcontractors, or invitees, provided for herein. CONSULTANT will defend any action or actions filed in connection with any of said claims, damages, penalties, obligations or liabilities and will pay all costs and expenses, including attorneys' fees incurred in connection herewith. CONSULTANT will promptly pay any judgment rendered against CITY, its officers, agents or employees for any such claims, damages, penalties, obligations or liabilities. In the event CITY, its officers, agents or employees is made a party to any action or proceeding filed or prosecuted against CONSULTANT for such damages or other claims arising out of or in connection with the sole negligence of CONSULTANT hereunder, CONSULTANT agrees to pay CITY, its officers, agents, or employees, any and all costs and expenses incurred by CITY, its officers, agents or employees in such action or proceeding, including but not limited to reasonable attorney's fees.

ARTICLE XV - Insurance

A. Without limiting CONSULTANT'S obligations arising under ARTICLE XIV - Indemnity, CONSULTANT shall not begin work under this Agreement until it obtains policies of insurance required under this section. The insurance shall cover CONSULTANT, its agents, representatives and employees in connection with the performance of work under this Agreement, and shall be maintained throughout the term of this Agreement. Insurance coverage shall be as follows:

i. Automobile Liability Insurance with minimum coverages of \$500,000 for property damage, \$500,000 for injury to one person/single occurrence, and \$500,000 for injury to more than one person/single occurrence.

ii. Public Liability and Property Damage Insurance, insuring CITY its elected and appointed officers, agents, and employees from claims for damages for personal injury, including death, as well as from claims for property damage which may arise from CONSULTANT'S actions under this Agreement, whether or not done by CONSULTANT or anyone directly or indirectly employed by CONSULTANT. Such insurance shall have a combined single limit of not less than \$1,000,000.

iii. Worker's Compensation Insurance for all CONSULTANT'S employees to the extent required by the State of California.

B. Deductibility Limits for policies referred to in subparagraphs A (i) (ii) and (iii) shall not exceed \$5,000 per occurrence.

C. Additional Insured. City, its elected and appointed officers, agents, and employees shall be named as additional insureds on policies referred to in subparagraphs A (i) and (ii).

D. Primary Insurance. The insurance required in paragraphs A (i) (ii) and (iv) shall be primary and not excess coverage.

E. Evidence of Insurance. Consultant shall furnish CITY, prior to the execution of this Agreement, satisfactory evidence of the insurance required, issued by an insurer authorized to do business in California, and an endorsement to each such policy of insurance evidencing that each carrier is required to give CITY at least 30 days prior written notice of the cancellation of any policy during the effective period of the Agreement. All required insurance policies are subject to approval of the City Attorney. Failure on the part of CONSULTANT to procure or maintain said insurance in full force and effect shall constitute a material breach of this Agreement or procure or renew such insurance, and pay any premiums therefor at CONSULTANT'S expense.

ARTICLE XVI - Enforcement of Agreement

In the event that legal action is commenced to enforce or declare the rights created under this Agreement, the prevailing party shall be entitled to an award of costs and reasonable attorney's fees in the amount to be determined by the court.

ARTICLE XVII - Conflicts of Interest

No member of the governing body of the CITY and no other officer, employee, or agent of the CITY who exercises any functions or responsibilities in connection with the planning and carrying out of the program, shall have any personal financial interest, direct or indirect, in this Agreement; and the CONSULTANT further covenants that in the performance of this Agreement, no person having any such interest shall be employed.

ARTICLE XVIII - Independent CONSULTANT

The CONSULTANT is and shall at all times remain as to the CITY a wholly independent consultant. Neither the CITY nor any of its agents shall have control over the conduct of the CONSULTANT or any of the CONSULTANT's employees, except as herein set forth. The CONSULTANT shall not at any time or in any manner represent that it or any of its agents or employees are in any manner agents or employees of the CITY.

ARTICLE XIX - Entire Agreement of the Parties

This Agreement supersedes any and all other agreements, either oral or in writing, between the parties hereto with respect to the employment of CONSULTANT by CITY and contains all the covenants and agreements between the parties with respect such employment in any manner whatsoever. Each party to this Agreement

acknowledges that no representations, inducements, promises or agreements, orally or otherwise, have been made by any party, or anyone acting on behalf of any party, which are not embodied herein, and that no other agreement or amendment hereto shall be effective unless executed in writing and signed by both CITY and CONSULTANT.

ARTICLE XX - Governing Law

This Agreement shall be governed by and construed in accordance with the laws of the State of California, and all applicable federal statutes and regulations as amended.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the date and year first above written.

CITY OF HERMOSA BEACH

CONSULTANT

Mayor, City of Hermosa Beach

MBF Consulting, Inc.

ATTEST:

Elaine Doerfling, City Clerk

APPROVED AS TO FORM:

City Attorney

Exhibit A

SCOPE OF WORK

PROJECT NO. CIP 07-422 UPDATE SEWER MASTER PLAN AND PREPARATION OF MUNICIPAL SEWER MANAGEMENT PLAN

MBF Consulting, Inc. (MBF) scope of work is as follows:

- I. EXISTING SEWER MASTER PLAN UPDATE
Project Understanding and Scope of Services
- II. Preparation of Municipal Sewer Management Plan
Project Understanding and Scope of Services
- III. Fee Proposal

I. EXISTING SEWER MASTER PLAN UPDATE

PROJECT UNDERSTANDING AND SCOPE OF SERVICES

The anticipated scope of work for the existing sewer master plan update is based upon our conversations with engineering and operation staff and review of the existing documents and reports associated with the City's sewer infrastructure. The scope of work is intended to be flexible and can be modified as needed once we are actively involved on the project.

We anticipate the Sewer Master Plan scope of work to be conducted in three (3) phases:

- PHASE 1- DETERMINATION AND PRIORITIZATION OF PROPOSED IMPROVEMENTS**
- PHASE 2- DEVELOPMENT OF REHABILITATION SCHEDULE AND FUNDING PLAN**
- PHASE 3- UPDATE OF THE EXISTING SEWER MASTER PLAN REPORT**

A more detailed scope of work and tasks involved in different phases of the project is as follows:

PHASE 1- DETERMINATION AND PRIORITIZATION OF PROPOSED IMPROVEMENTS

Following the completion of tasks previously accomplished by MBF and determination of the system deficiencies, we proceed to determine the proposed improvements and prioritize their implementation. Existing performance of the sewer network, based on the video inspection tapes, will be considered in development of the proposed improvements. Rehabilitation of the existing sewer pipes by means of re-lining, replacement, or reconstruction will be recommended based upon their cost effectiveness and construction feasibility. MBF, with assistance of city staff, will proceed to complete the tasks in PHASE 2 as follows:

- Task 1.1 **Determine Improvements-** Identify and propose necessary improvements including re-lining, reconstruction, or replacement of the existing sewer pipes as necessary.

- Task 1.2 **Prioritize Improvements-** Working closely with city staff, prioritize the proposed improvements based upon the urgency of situation, condition and capacity of the sewer pipe, and the budgeting constraints.

PHASE 2- DEVELOPMENT OF REHABILITATION SCHEDULE AND FUNDING PLAN

Using the prioritized improvements in phase 1 of the work as a building block, MBF will proceed to develop a schedule for rehabilitation of the proposed improvements. Capital projects to replace aged or defective sewers and equipment will be recommended, cost estimated and included in the Capital Improvement Program, subject to the City's approval. MBF, with assistance of city staff, will proceed to complete the tasks in PHASE 2 as follows:

- Task 2.1 **Develop Rehabilitation Schedule-** Utilizing the prioritized list of sewer improvements, develop a sewer rehabilitation schedule.
- Task 2.2 **Develop Funding Plan-** Utilizing the prioritized list of sewer improvements, develop a possible sewer funding plan.

PHASE 3- UPDATE OF THE EXISTING SEWER MASTER PLAN REPORT

Following the completion of tasks in Phase 1 and Phase 2, MBF will proceed to prepare a sewer master plan that addresses all aspects of the project. Master plan report will be submitted at 50%, 90%, and 100% completion milestone draft reports. Following the review and approval of the report by the City, the final adopted Sewer Master Plan Report will be submitted to the City at project completion.

- Task 3.1 **Prepare 50% Sewer Master Plan Report**
- Task 3.2 **Prepare 90% Sewer Master Plan Report**
- Task 3.3 **Prepare 100% Sewer Master Plan Report**

OPTIONAL TASK- I/I STUDY/FLOW MEASUREMENT As an optional task (fee is not included in this proposal) MBF will assist the City in developing the approach to conduct an I/I study as well as obtaining the services of an outside vendor to install flow meters and measure flow rates at several strategic locations in the City's sewer network. This information can then be used to determine the system bottlenecks and develop proposed system improvements.

II. PREPARATION OF MUNICIPAL SEWER MANAGEMENT PLAN

PROJECT UNDERSTANDING AND SCOPE OF SERVICES

The California Water Resources Control Board recently adopted Statewide General Waste Discharge Regulations (WDRs) for all public sanitary sewer systems. The goal is to reduce sanitary sewer overflows (SSOs). These requirements apply to the City of Hermosa Beach since the City has over 64 miles of sanitary sewer system. The development of a Sewer System Management Plan (SSMP) to address SSOs is also required to insure that the City has an effective plan for managing, operating, and maintaining its sanitary sewer system and infrastructure.

MBF Consulting Inc. (MBF) proposes to assist the city in understanding, implementing, and achieving compliance with the California Water Resources Control Board most recent General Waste Discharge Requirements (WDRs) including the preparation of a comprehensive Sanitary Sewer Management Plan (SSMP).

Our proposed scope of work is as follows:

PHASE 1- THE NEEDS ASSESSMENT AND ANALYSIS

- Task 1.1 Prepare plans, procedures, legal authority, and program elements
- Task 1.2 Assess potential methods of financing additional capital and O&M levels

PHASE 2- PROGRAM DEVELOPMENT/IMPLEMENTATION

Following the completion of tasks in Phase 1 and development of an action plan necessary to reach and maintain SSO/WDR compliance, MBF will meet with the City's engineering and operations personnel to determine the most effective implementation strategy. MBF, with assistance of city staff, will incorporate the City's existing infrastructure, labor resources, and maintenance activities and will proceed to complete the tasks in the Program Development/Implementation phase of the work (PHASE 2) as follows:

- Task 2.1 Develop the Plan in accordance with the SSO/WDR general standards, as well as specific program requirements
- Task 2.2 Identify potential means of assessing and identifying the sewer system capacity and design requirements
- Task 2.3 Identify and report on SSO/WDR components that may not be applicable to the City
- Task 2.4 Obtain plan approvals from all regulatory authorities

PHASE 3- DOCUMENT PREPARATION AND SCHEDULE

Following the completion of tasks in Phase 2 (Program Development/Implementation), MBF in conjunction with the City staff will proceed to review and or prepare the following documents:

- Task 3.1 A **SSMP Plan and Schedule** that will outline and address the City's goals, organization, legal authority, emergency response procedures, maintenance, capacity assessment, and design provisions, as well as monitoring and measurement program.
- Task 3.2 An **Operation and Maintenance Program** outlining specific duties in maintenance of the sanitary sewer system including improvements for preventing SSO events where necessary
- Task 3.3 An **Overflow Response Plan** specifying procedures to be performed in the event of an SSO. The plan will include:
 - Reporting and Notification procedures
 - Procedures necessary to mitigate public health and environment impacts

- Notification provisions to insure that the City is aware and responds to all SSO events
- Development of SSO response and remediation procedures

Task 3.4 We understand the City has a Fats, Oils, and Grease (FOG) Program in place. As part of this phase, MBF will review the existing FOG program to verify elements such as the classification of facilities, the adoption of relevant building codes, and the method of FOG inspection and evaluation.

Our proposed detailed Sanitary Sewer System Management Plan (SSMP) will include the following chapters and tasks:

Chapter 1 Goals- Define the goal of the SSMP

- a) Required time and target to complete

Chapter 2 Organization Structure

- 1) Identify the administrative and maintenance positions for implementation measures in the SSMP program, including the lines of authority by organization chart.
- 2) Identify the chain of communication for reporting SSOs, from receipt of a complaint or other information, to RWQCB, SWRCB, County Health Dept, State Office of Emergency Services (OES) etc.

Chapter 3 Legal Authority- Identify all legal authorities possessed by the City to:

- a) Prevent illegal connection to the sewer system
- b) Require that sewers and connections be properly designed and constructed;
- c) Ensure access for maintenance, inspection, or repairs of mainline sewers;
- d) Limit the discharge of fats, oil, and grease (FOG) and other debris that may cause blockages, and
- e) Enforce any violation of its sewer ordinances.

Chapter 4 Operation and Maintenance Program- Identify procedures in place or to be implemented and the person in the organization responsible for the following:

- a) Providing adequate operation and maintenance of facilities and equipment;
- b) Maintain an up-to-date map of the sewer system;
- c) Maintaining relevant records to establish and prioritize appropriate SSMP activities and show trends in SSO;
- d) Providing preventive activities and tracking work orders;
- e) Identifying and prioritizing system deficiencies and implementing short and long term rehabilitation actions;
- f) Providing training to staff and monitoring contractors activities;
- g) Providing equipment and part inventories;

- h) Establishing and implementing public education and outreach program that promotes proper disposal of FOG.

Chapter 5 Design and Performance Provisions- Identify procedures for the following:

- a) Ensuring that sewer systems are properly designed and constructed through establishment of design and construction standards for the systems.
- b) Ensuring proper inspection and testing for the installation, rehabilitation, or repairs of sewer project.

Chapter 6 Overflow Emergency Response Plan- Develop or affirm the existence of an overflow response plan that includes the following:

- a) Proper and timely notification procedures of SSOs to primary responders;
- b) Procedures to insure timely response and containment of SSOs;
- c) Procedures to insure prompt notification of SSOs to appropriate authorities;
- d) Procedures to insure that staff and contractors are aware of and follow the plan and are appropriately trained.
- e) Industry accepted response time for different categories of emergencies.

Chapter 7 Fats, Oil, and Grease Control- Develop new or identify existing FOG control Program that includes:

- a) Legal authority to prohibit discharges to system and measures to prevent SSOs caused by FOG;
- b) Identify sections of the sewer systems subject to grease blockages and establish cleaning maintenance schedule for each section; and
- c) Source control measures for all sources of FOG discharge to the sewer systems.

Chapter 8 System Evaluation and Capacity Assurance Plan- Develop or affirm the existence of a Capital Improvement Plan (CIP) that includes the following:

- a) Steps to evaluate portions of the sewer system which are experiencing or contributing to SSOs caused by hydraulic deficiencies.
- b) Short and long term CIP to address identified hydraulic deficiencies including prioritization, alternative analysis, and schedule. The CIP may include increase in pipe size, plastic lining of sewers, infiltration/inflow reduction, and upgrading of pumping system for redundancy, reliability, and emergency storage.

Chapter 9 Monitoring, Measurement, and Program Modification- Develop or identify existing system to do the following:

- a) Monitor the implementation and where appropriate, measure the effectiveness of each element of the SSMP; and
- b) Update program elements as appropriate, based on monitoring or performance evaluations.

Chapter 10 SSMP Program Audits- Develop an internal SSMP periodic audit system that focuses on evaluating the effectiveness and deficiencies of the SSMP and steps to correct them.

Chapter 11 Communication Program- Develop or identify effective means of communicating with the public and stakeholders on the development, implementation, and performance of the SSMP. The communication system shall be open to public and stakeholders input in the development and implementation of the SSMP.

Upon completion of the SSM First Draft, it will be circulated to stakeholders for review and comments.

Final SSMP will be prepared by incorporating comments where appropriate from stakeholders.

The Final SSMP will be submitted for approval by the City administration, and to SWRCB and RWQCB as required.

III. FEE PROPOSAL

The MBF Consulting has analyzed the services required for the subject project and the level-of-effort necessary to complete the scope and accomplish the objectives. Exhibit "B" shows our detailed fee proposal depicting the cost breakdown for each phase of work necessary to prepare a sewer master plan and to assist the City in meeting the SSOWDR's regulations.

Exhibit B
City of Hermosa Beach
Sewer Master Plan
Sanitary Sewer Management Plan
FEE

TASK #	Description	Work Hours By Classification				Fees		
		Project Mgr.	CADD Designer	Clerical	TOTAL Hours	Labor Cost	Material Cost	TOTAL COST
		\$90	\$74	\$40				
SEWER MASTER PLAN UPDATE								
PHASE 1- Determine/Prioritize Improvements								
1.1	Determine Improvements	68			68	\$6,120		\$6,120.00
1.2	Prioritize Improvements	56		12	68	\$5,520		\$5,520.00
Subtotal-PHASE 1		124	0	12	136	\$11,640	\$0.00	\$11,640.00
PHASE 2- Develop Rehabilitation/Funding Schedule								
2.1	Develop Rehabilitation Schedule	36			36	\$3,240		\$3,240.00
2.2	Develop Funding Plan	24			24	\$2,160		\$2,160.00
Subtotal-PHASE 2		60	0	0	60	\$5,400	\$0.00	\$5,400.00
PHASE 3 - Update Existing Master Plan Report								
3.1	Prepare 50% Sewer Master Plan Report	40		24	64	\$4,560	\$100.00	\$4,660.00
3.2	Prepare 90% Sewer Master Plan Report	36		16	52	\$3,880	\$100.00	\$3,980.00
3.3	Prepare 100% Sewer Master Plan Report	24		8	32	\$2,480	\$150.00	\$2,630.00
Subtotal-PHASE 3		100	0	48	148	\$10,920	\$350.00	\$11,270.00
SEWER MASTER PLAN UPDATE- TOTAL		284	0	60	344	\$27,960	\$350	\$28,310.00
SANITARY SEWER MANAGEMENT PLAN								
PHASE 1- Need Assessment Analysis								
1.1	Prepare Plans, Procedures, and Program Elements	36			36	\$3,240	\$50.00	\$3,290.00
1.2	Assess Financing Additional Capital	16			16	\$1,440	\$40.00	\$1,480.00
Subtotal-PHASE 1		52	0	0	52	\$4,680	\$90.00	\$4,770.00
PHASE 2- Program Development/Implementation								
2.1	Develop Plan per SSO/WDR General and Specific Requirements	40			0	\$3,600		\$3,600.00
2.2	Identify Means to Assess System Capacity/Design Requirements	34			34	\$3,060		\$3,060.00
2.3	Identify Non -applicable SSO/WDR components	26			26	\$2,340		\$2,340.00
2.4	Obtain Regulatory Agency Approval	20			20	\$1,800		\$1,800.00
Subtotal-PHASE 2		120	0	0	80	\$10,800	\$0.00	\$10,800.00
PHASE 3- Document Preparation								
3.1	Complete SSMP Plan and Schedule	56		20		\$5,840	\$150.00	\$5,990.00
3.2	Develop/Prepare O&M Program	48		14		\$4,880	\$110.00	\$4,990.00
3.3	Develop Overflow Response Plan	46		12		\$4,620		\$4,620.00
3.4	Review Existing FOG Program	16		2		\$1,520		\$1,520.00
Subtotal-PHASE 3		166	0	48	0	\$16,860	\$260	\$17,120.00
SANITARY SEWER MANAGEMENT PLAN- TOTAL		338	0	48	132	\$32,340	\$350	\$32,690
TOTALS		622	0	108	476	\$60,300	\$700	\$61,000