DRAFT

EXHIBIT B

AMENDMENT NO. 1 - YEAR 2 SERVICES

STORMWATER MASTER PLAN MODELING AND DESIGN IMPLEMENTATION

CITY OF HOLLYWOOD DEPARTMENT OF PUBLIC UTILITIES PROJECT NO. 20-11053

CDM SMITH INC.

January 17, 2022

This Scope of Services is undertaken under the Professional Services Agreement PN 20-11053, R-2020-320 (Agreement) between City of Hollywood (CITY) and CDM Smith Inc. (CONSULTANT) dated January 20, 2021 for providing continuing professional services for engineering, survey, and general consulting to the CITY for the storm water master plan modeling, design, and implementation.

BACKGROUND INFORMATION

The CITY desires to complete its in-progress Comprehensive Citywide Storm Water Master Plan project, authorized in February 2020 for Year 1 Services which has completed the data gathering and analysis, initial field surveys, GIS enhancements and update, and has developed a detailed stormwater model of the CITY's Existing Conditions which can be used to predict the extent, depth, and duration of flooding from rainstorms within the City's neighborhoods and determine the root causes of the flooding.

This Year 2 authorization will continue to build upon the work completed in Year 1 and perform the engineering analyses to develop a prioritized capital improvements program to address flooding issues to the CITY's desired level of service (LOS) and affordability, while considering resiliency and future sea-level rise.

SCOPE OF SERVICES

CONSULTANT will undertake the following scope under Year 2 services:

TASK 1 – Monthly Progress Meetings, Inter-Agency and Governmental Meetings, and Project and Quality Management

1. Prepare and attend 12 monthly project progress meetings with the CITY and provide meeting minutes and presentation materials in email format.
2. Prepare and attend up to 15 coordination meetings with other internal departments and outside agencies to discuss and coordinate the SWMP activities, needs, progress, and other requirements.
3. Perform the activities required to maintain the work on schedule, within budget, maintain the quality of the work products consistent with Engineer's quality standards, manage subconsultants, direct field work, and prepare and submit monthly Project Status Reports with the invoices for an anticipated project duration of 12-months.

TASK 2 – Continuation of Field Data Collection and Evaluation

1. Update and merge the stormwater GIS database created/enhanced under this project with the latest CITY GIS to acquire changes or additions that may have been made by the CITY since the provision of the original stormwater GIS database by the CITY for CONSULTANT's use for the model. The new master database will be created using a comparison of the editor tracking fields in the newest CITY data to identify the features updated or added by the CITY after March 2021 to reconcile the data into a master version. CONSULTANT will coordinate a one-time data exchange and provide a new master GIS stormwater database back to the CITY for its use with comment fields noting the updates made.

TASK 3 - Stormwater Modeling and CIP Development Phase

Building upon the Existing Conditions (EC) Citywide stormwater SWMM model created under Year 1 Services for this project, the following tasks will be performed:

1. Alternatives Evaluation - Develop proposed conditions models with conceptual stormwater infrastructure capital improvements (CIP) to reduce flooding to the CITY's chosen level of service for the two alternatives below and meet water quality requirements set forth by Federal, State, and County regulations for the receiving waters for four design storms (5-year/24-hour, 10-year/72-hour, 25-year/72-hour, 100-year/72-hour) with the proposed CIP in place. For this CIP, proposed conditions simulations will assume that the seawall height improvements have been contiguously installed to the BC and Hollywood ordinance requirement height of 5-ft NAVD.

    I. The first alternative will consider the CITY's current (or desired/proposed) level of service standard, i.e., acceptable maximum inches of flooding of major roadways for the 10-year design storm and a passable depth over minor roadways, or other as selected jointly with the CITY.

    II. The second alternative will identify jointly with the CITY a lesser, potentially more implementable or affordable retrofit level of service, i.e., no over topping of roadways for the 5-year design storm with known areas of shallow, short-duration ponding during the 10-yr storm.

    Produce electronic GIS-based schematics of proposed CIP, summary tables of resultant predicted peak stages, flows, and velocities from the model results, provide updated design tailwater conditions maps in a GIS format for both upland and tidal influenced areas, and create Citywide floodplain maps for each simulation (8 inundation maps).

2. Water Quality Treatment - Calculate water quality treatment in equivalent inches for each major watershed using SFWMD guidelines in a spreadsheet format for pre- and post-CIP for the chosen alternative.
3. Evaluate Costs and Benefits - Calculate project alternatives costs and monetize the benefits (i.e., cost of flood damage reduction) for the Citywide capital projects using FEMA-HAZUS (Hazard US)

method BCA Tool for each of the two alternatives for the four design storms, (12 total scenarios: 1 EC + 2 Alts = 3 x 4 design storms = 12 total). Produce a summary graph of the BCA results.

4. Provide a progress Technical Memorandum as draft report section, at the following stage:
    i. Model Application TM - Hydrologic and Hydraulic modeling of existing land uses, identification and initial Rankings of identified problem areas, and predicted inundation (LOS) under the 4 design storms, pre CIP.

TASK 4 - Sea Level Rise and Storm Surge Evaluation and Considerations

1. SLR Scenarios - Project two potential discrete heights of sea level rise (SLR) on normal and extreme tide and surge conditions utilizing current SLR information from the southeast Florida Climate Compact or from requirements from FDEP under Fla. Stat. 380.093 - Statewide Flooding and Sea Level Rise Resilience Plan (scenarios required for State Grant funding) and evaluate the potential impact of intermediate and high SLR scenarios on the Primary Stormwater Management System over the chosen different sea level rise elevations superimposed using the update stormwater model on the 5-, 10-, 25-, and 100-year design storms for existing conditions and the two proposed alternative CIP conditions to compare the effectiveness of the CIP under the SLR conditions.
2. Analysis of Proposed CIP Without Seawall Improvements - Develop and perform a model simulation with a Citywide inundation map for the 5-year storm to demonstrate the inundation that would occur if the proposed CIP was installed but the seawalls/shoreline protection was not improved to the required ordinance elevation. The duration of flooding will be provided by simulating dynamic tidal boundary condition modeling. Note: This simulation requires the seawall elevation survey to be completed.
3. Potential Future Climate Change Rainfall Simulation – Develop and evaluate one additional design storm for potential increased rainfall City-wide (i.e., 25- or 100-year storm adjusted for potential climate change rainfall amounts as identified by SFWMD, or a 500-year rainfall amount as a “worst case” event) as agreed jointly with the CITY and provide a comparison of predicted flooding elevations to identified critical facility elevations.

TASK 5 - Capital Improvement Program Phase and Conceptual Permit Application

In performing this Task, the CONSULTANT will:

1. Develop a 20-year, phased conceptual Capital Improvement Plan (CIP) itemizing the capital improvement projects that can be implemented and constructed on a basin-level. For the Capital Improvement Program phase, CONSULTANT will, at a minimum, implement a mixture of the following conceptual CIP categories for public and private systems as applicable and permittable:
    a. Neighborhood or community stormwater drainage improvements
    b. Primary Stormwater Management System (PSMS) improvements including:
        i. Pump stations
        ii. Waterways, canals, and waterbodies

iii. Pipes and culverts
iv. Storage (i.e., wet detention as allowed by RER/DERM, dry retention, swales)
v. Exfiltration
vi. Recharge wells
vii. Pretreatment for trash and debris

c. Coastal areas:
i. Seawalls/bulkheads, floodwalls, and levees
ii. Backflow preventers in outfalls

d. Identification of potential areas for property acquisition (i.e., repetitive loss areas not able to cost effectively meet the chosen LOS), and/or re-development for stormwater purposes (CITY owned parks, Golf Courses, other open area properties).

2. Working in conjunction with the CITY, jointly develop a prioritized list of CIP projects over the next 20 years in five-year increments and provide justifications for the areas of highest concern and based on flood reduction, considering cost-benefit analyses, and impact for sea level rise, resiliency, and water quality.
3. Provide a discussion of planning-level, future project concepts to consider for long-term adaptation to SLR, (e.g., 50-70 yr time frame).
4. Operations and Maintenance – Meet with and include CITY O&M Staff recommendations on future CIP and discuss increase O&M requirement for the future system.
5. Complete a SFWMD Conceptual Permit Application for the Citywide approved CIP and attend one meeting at SFWMD to present the initial conceptual application in a pre-permit meeting to the District reviewers either on-site or virtual at the District's discretion. Responses to regulators requests for additional information during the conceptual permit review process is included in Task 8.
6. Provide on-site or virtual training for 24 hours (3-day course) on the City's SWMM model with user manuals and training materials. Training will include overview of the basic model setup and software and its application for use by CITY Staff i.e., alternate sea level rise scenarios, example development review, and adding or deleting CIP projects.

TASK 6 - Public Involvement and Community Engagement

1. Final Public Workshops - CONSULTANT will assist in the coordination and planning of Final Public Workshops at the appropriate time during the project to share the master plan, capital improvements prioritization list, as well as detail some of the projects that are proposed as part of the master plan. As with the previous meetings, the audiences for and locations of each Workshop will be coordinated with the CITY. CONSULTANT will assist with the creation of promotional materials, but the CITY will assist in the promotion of the Workshops. CONSULTANT will coordinate, present and facilitate public meetings and will assist in the development of presentations and handout materials, coordinating the final materials. CONSULTANT will coordinate and facilitate six (one in each of 6 Commission Districts) public information meetings to advance public information program on the project, share the goals of the project, and receive initial public feedback.

TASK 7 – Stormwater Master Plan Report

The CONSULTANT will develop the SWMP Draft and Final Report and create a digital (pdf) and five hardcopies (of the Final) SWMP Report with Appendices summarizing the findings and results of the SWMP in a comprehensive report with applicable figures and tables as necessary. Tables of model input and results data for the scenarios will be provided digitally in GIS format.

The report will include the following major sections:

I. Executive Summary
II. Introduction
III. Stormwater Model Development
IV. Stormwater Model Application and Existing Conditions System Evaluation
V. Citywide Stormwater System Capital Improvement Program
VI. Sea Level Rise Impacts
VII. Implementation Schedule and Potential Funding Sources
VIII. Conclusions and Recommendations
IX. Appendices

TASK 8 - Optional Services Tasks and Contingency

In performing this Work Order, CONSULTANT may be requested to perform optional or additional work considered beyond the scope of Basic Services in Tasks 1-7 as specified and authorized by the CITY in accordance with the Agreement, including but not limited to additional meetings, technical assistance, responses to regulators, grant application assistance, and related stormwater consulting services. Such additional work and corresponding fees shall be authorized through supplemental authorization:

1. Requests for Additional Information (RAI) Responses – Allowance for provision of RAI responses to regulators on technical questions regarding the SWMP conceptual ERP Application or other regulatory agencies.
2. Reclaim the Swale Program Assistance – Allowance for provision of engineering details, conceptual sketches, bioswale ecology, water quality calculations for 8 locations and develop 4 basic swale types as necessary for the Program.
3. Design Stormwater Criteria Standards Review - Review the CITY's stormwater design standards (design criteria and standard design details) and provide narrative of updated stormwater system design criteria recommendations in a brief summary Technical Memorandum.
4. Seawall Height and Inundation Analysis - Evaluate flood LOS, vulnerability, and potential risk for the Primary Stormwater Management System and infrastructure from existing sea level conditions and tides (normal ranges of high tides and extreme event surges generated from severe storm events) in a GIS-based model to compare compound inundation in increments of 0.5 feet and provide the inundation maps. BCPA property values will be used for an analysis of seawall height and point of diminishing returns. Provide a GIS map of the results of flood depth/elevation showing the potential vulnerability and risk from SLR ranges over the time periods on public safety, City infrastructure, and operations at different seawall heights. A brief TM will be developed presenting the methodology and results.

5. Flood Stage Gauge Monitoring System Analysis - Recommend potential locations for Citywide flood stage monitors and provide conceptual equipment or data sheets in a brief summary Technical Memorandum.
6. Stormwater Design Assistance – Allowance for provision of data, coordination with the SWMP parameters, consult and advise, creation of conceptual or preliminary designs for implementation of stormwater projects, and technical reviews of other CITY or outside Consultant's / Developer's designs for conformance or coordination with the SWMP.
7. Additional public meetings and communication materials - Allowance for creation of desired public communications materials, attendance at and presentations to stakeholders.
8. CRS Assistance – Allowance for engineering assistance with FEMA CRS incentive program requirements to identify credit points to improve the City's score and allow discounted rates for resident's flood insurance premiums.
9. PMP Training – Allowance for the services of a qualified third-party vendor for an educational course related to the Project Management Institute (PMI) Project Management Professional (PMP) certification. CONSULTANT will contract with a specialist sub-contractor to provide the CITY with two separate four-day virtual PMP training classes. Pricing for each four-day training class is budgeted for approximately up to ten (10) attendees per class. The CITY will correspond directly with the vendor for dates, class coordination/logistics or other needs at its convenience.
10. Continue to conduct GPS, Geotechnical, or other field survey data collection efforts for stormwater feature verification where deemed necessary by the CONSULTANT to obtain remaining stormwater model data to support the Year 2 Services analyses. This may include high water marks, roadway low points, finished-floor elevations of critical or other structures, connectivity resolution, spot surveys, and field assessment of anomalies in the CITY's GIS or available data.
11. North Lake and South Lake 2-D Stormwater Model – Allowance to perform and develop a 2-D model platform if necessary subsequent to meeting with Broward County. This allowance includes development of the model to meet the expected permit requirements. Additional analysis on sediments data if required can be performed under Task 8.10 if budget allows. The CONSULTANT will set up and apply a 2-dimensional USEPA Environmental Fluid Dynamics Code (EFDC) hydrodynamic and water model for the North and South Lake system to address the Broward County permit application RAI and potential evaluations for additional pump station discharges into the systems. The EFDC model would be simulated for a typical range of tidal cycles with stormwater flows superimposed from the City-wide USEPA SWMM for a 5-year /24-hour event and a 100-year /72-hour event for the pump discharges. Results will be summarized in tabular form. CONSULTANT will prepare responses to a request for additional information (RAI) within 45 days of issuance. Response will include written and necessary demonstrative simulations or output.

DELIVERABLES

Task 1: Monthly project status reports in email pdf format

Task 2: Master, merged stormwater GIS database (.gdb)

Task 3: Model Application TM

Task 5: SFWMD Conceptual Permit Application; pre-application meeting minutes in pdf format

Task 6: Meeting summaries and presentation materials in pdf format

Task 7: SWMP Draft and Final Report - 1 pdf, 5 hard copies of Final only; digital media of model files (input and output) for model scenarios performed in GIS format.

TIME OF COMPLETION / SCHEDULE

CONSULTANT shall commence work within 14 calendar days after issuance of a written notice-to-proceed (NTP) and purchase order (PO) from the CITY. Timeframe for completion is approximately 12 months. Schedule updates will be provided by the CONSULTANT as the project milestones progress. The as the Citywide Conceptual Permit process is not within the control of the CONSULTANT and it will have its own separate schedule to be approximated once the Master Plan CIP is approved and the pre-application meeting is completed.

CITY'S RESPONSIBILITIES

Provide available data as requested.

Attend and participate in periodic project progress meetings as requested at project milestones and assist in coordination of meetings with CITY staff and stakeholders.

Assist CONSULTANT to the extent possible with obtaining information from sources or agencies unresponsive to CONSULTANT.

Perform timely reviews of deliverables.

Assign a direct single point of contact at the CITY assigned to the CONSULTANT for this project.

Provide input for joint prioritizations of proposed CIP projects.

BASIS OF ESTIMATE

Model work will continue to build from the existing SWWM 5 model created under Year 1 Services.

The stormwater GIS database information will continue to be transcribed as new available stormwater information for features necessary for the completion of the stormwater models analysis Primary Stormwater Management System (PSMS) analysis progresses. The PSMS is defined as system components greater or equal to 24-inches in diameter. Smaller stormwater features may be entered and/or field verified at the CONSULTANT's discretion as necessary for model continuity. If manhole/inlet

features to be mapped are visible on aerial base mapping, they will be "snapped" to these locations, if not visible on base mapping the location will be estimated based on information available. As each structure point necessary for the model is placed in the GIS, available information on the source document or survey will be entered into the geodatabase. Attribute information not available on source documents or model-specific field survey will be coded as "null" in the GIS database. Conveyance structures will be "snapped" to associated structure points, be digitized in the direction of flow, and be coded with pipe size and other information noted on plans or survey. Attribute information not available on model-specific source documents will be coded as "null" in the GIS database. Attribute information not necessary for the model analysis will remain as entered in the CITY's data and will not be field verified.

Implementation of Stormwater Utility recommendations are not included in Tasks 1-7.

COMPENSATION AND PAYMENT

In accordance with the Agreement, CONSULTANT will be compensated for services performed under this Work Order as follows:

For the Services performed under Tasks 1 through 7 of this Work Order, CITY agrees to pay a Not to Exceed fee of $1,671,997 including subconsultants and reimbursables in accordance with rates developed in Exhibit C of the Agreement.

A Not-To Exceed allowance of $673,977 is provided for compensation of Task 8 Optional Services which will be authorized on a case by case basis following written approval of the Director or its designee.

The total Not-To-Exceed value of Consultant Work No. 2 is $2,345,974**.**

CONSULTANT will submit monthly invoices for partial payments to be made for actual labor (Prime and Subconsultants) and materials accrued during the reporting period.

Exhibit 1 – Proposed Schedule

ATTCHMENT 1
FEE ESTIMATE
SEAWALL SURVEY

SWMP YEAR 2 SERVICES		PROFESSIONAL SERVICES					PROFESSIONAL SUPPORT SERVICES					PROJECT SUPPORT SERVICES				SUBCONSULTANTS						
CONTRACT TYPE:	*NOT TO EXCEED*	Senior Officer	Senior Technical Expert/ Lead Engineer	Associate/ Senior Project Manager	Principal	Professional II/ Engineer	Senior Stormwater Modeler	Staff Stormwater Modeler	Senior GIS Specialist	Staff GIS Specialist	Senior Support Services/ CADD Designer/ Technician	Contract Administrator/ Project Administration	Document Control Specialist	CDM Smith Total Hours	CDM Smith Total Labor	Brizaga (Public Awareness)	Anfield Consulting'	Curtis & Rogers Studio	Tobon Engineering	Biscayne Engineering (Survey)	Reimbursables	**PROJECT TOTALS**
	Bill Rate >	*$285.00*	*$255.00*	*$234.00*	*$210.00*	*$150.00*	*$205.00*	*$135.00*	*$190.00*	*$130.00*	*$145.00*	*$115.00*	*$75.00*									
TASK	**DESCRIPTION**																					
Task 1	**Project Progress Meetings and Project and Quality Management**	**20**	**60**	**516**	**24**	**12**	**108**	**0**	**12**	**0**	**0**	**48**	**36**	**836**	**$181,224.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$500.00**	**$181,724.00**
1.1	Monthly Progress Mtgs (12)	4	24	72	12	12	48	0	12	0	0	0	12	196	$41,448.00	$0.00	$0.00	$0.00	$0.00	$0.00	$250.00	$41,698.00
1.2	Inter-Department and Other Agency Coordination Meetings (15)	4	24	60	0	0	60	0	0	0	0	0	0	148	$33,600.00	$0.00	$0.00	$0.00	$0.00	$0.00	$250.00	$33,850.00
1.3	Project Management	12	12	384	12	0	0	0	0	0	0	48	24	492	$106,176.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$106,176.00
Task 2	**Continuation of Field Data Collection and Evaluation Phase**	**0**	**0**	**8**	**0**	**0**	**8**	**0**	**80**	**0**	**0**	**0**	**0**	**76**	**$14,912.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$14,912.00**
2.1	Merge, Update and Create Stormwater GIS Master File	0	0	8	0	0	8	0	60	0	0	0	0	76	$14,912.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$14,912.00
Task 3	**Continuation of Stormwater Modeling and CIP Development Phase**	**16**	**112**	**112**	**176**	**320**	**944**	**496**	**368**	**136**	**0**	**0**	**40**	**2720**	**$495,368.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$500.00**	**$495,868.00**
3.1	Alternatives Evaluations - CIP Development to Meet Chosen LOS (2 Alts)	4	40	40	40	40	576	288	120	40	0	0	0	1188	$220,060.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$220,060.00
3.2	Water Quality Treatment Calculation for CIP Alts (2)	4	16	16	40	40	40	24	24	0	0	0	0	204	$39,364.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$39,364.00
3.3	FEMA HAZUS Benefit Cost Analyses (12)	4	40	16	80	160	288	144	192	96	0	0	0	1020	$183,324.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$183,324.00
3.4	Model Application TM	4	16	40	16	80	40	40	32	0	0	0	40	308	$52,620.00	$0.00	$0.00	$0.00	$0.00	$0.00	$500.00	$53,120.00
Task 4	**Sea Level Rise and Storm Surge Evaluation and Considerations**	**2**	**28**	**28**	**20**	**24**	**164**	**64**	**64**	**8**	**0**	**0**	**0**	**402**	**$77,522.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$77,522.00**
4.1	SLR Scenarios and Model Analyses	1	24	24	16	24	140	64	48	8	0	0	0	349	$66,481.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$66,481.00
4.2	Analysis of Proposed CIP Without Seawalls	1	4	4	4	0	24	0	16	0	0	0	0	53	$11,041.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$11,041.00
4.3	Climate Change Scenario for Critcal Facilities	1	4	4	4	0	24	0	16	0	0	0	0	53	$11,041.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$11,041.00
Task 5	**Capital Improvement Program Phase and Conceptual Permit Application**	**40**	**424**	**374**	**160**	**380**	**408**	**292**	**200**	**0**	**80**	**0**	**64**	**2422**	**$475,096.00**	**$0.00**	**$0.00**	**$0.00**	**$20,000.00**	**$0.00**	**$2,200.00**	**$497,296.00**
5.1	Create 20 yr CIP (2 Alts)	8	120	120	40	40	220	200	120	0	80	0	0	948	$181,860.00	$0.00	$0.00	$0.00	$10,000.00	$0.00	$0.00	$191,860.00
5.2	Prioritized List of Projects	8	40	60	0	40	60	40	24	0	0	0	0	272	$54,780.00	$0.00	$0.00	$0.00	$10,000.00	$0.00	$0.00	$64,780.00
5.3	Long-Term SLR Adaptation Analysis	8	40	40	40	40	40	8	0	0	0	0	0	216	$45,520.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$45,520.00
5.4	O&M Recommendations and Input	8	40	40	40	40	8	4	8	0	0	0	0	188	$39,940.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$39,940.00
5.5	SFWMD Conceptual ERP Application and Pre-Permit Meeting	8	160	90	40	220	40	40	40	0	0	0	40	678	$129,740.00	$0.00	$0.00	$0.00	$0.00	$0.00	$2,000.00	$131,740.00
5.6	SWMM Training (3-day Course)	0	24	24	0	0	40	0	8	0	0	0	24	120	$23,256.00	$0.00	$0.00	$0.00	$0.00	$0.00	$200.00	$23,456.00
Task 6	**Public Involvement and Community Engagement**	**40**	**147**	**120**	**60**	**0**	**80**	**0**	**24**	**0**	**0**	**0**	**16**	**487**	**$111,725.00**	**$81,180.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$4,500.00**	**$197,405.00**
6.1	Public Workshops (6)	40	147	120	60	0	80	0	24	0	0	0	16	487	$111,725.00	$81,180.00	$0.00	$0.00	$0.00	$0.00	$4,500.00	$197,405.00
Task 7	**Stormwater Master Plan Report**	**24**	**120**	**120**	**90**	**140**	**120**	**140**	**160**	**80**	**40**	**0**	**120**	**1154**	**$204,520.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$2,750.00**	**$207,270.00**
	Total Hrs Basic Services (Tasks1-7)	*142*	*891*	*1278*	*530*	*876*	*1832*	*992*	*908*	*224*	*120*	*48*	*276*	*8097*								
	Total Cost	*$40,470.00*	*$253,935.00*	*$364,230.00*	*$151,050.00*	*$249,660.00*	*$522,120.00*	*$282,720.00*	*$258,780.00*	*$63,840.00*	*$34,200.00*	*$13,680.00*	*$78,660.00*		*$1,560,367.00*	*$81,180.00*	*$0.00*	*$0.00*	*$20,000.00*	*$0.00*	*$10,450.00*	*$1,671,997.00*
	% of Total	*2.4%*	*15.2%*	*21.8%*	*9.0%*	*14.9%*	*31.2%*	*16.9%*	*15.5%*	*3.8%*	*2.0%*	*0.8%*	*4.7%*									
Task 8	**Project Optional and Additional Services Allowances**	**26**	**153**	**248**	**264**	**288**	**272**	**228**	**282**	**40**	**120**	**44**	**198**	**2163**	**$385,727.00**	**$38,000.00**	**$0.00**	**$50,000.00**	**$0.00**	**$165,000.00**	**$35,250.00**	**$673,977.00**
8.1	Request For Additional Information (RAI) Response to Regulators (1)	4	40	80	40	80	40	40	40	0	0	4	38	406	$74,970.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$74,970.00
8.2	Reclaim the Swale Program Assistance (on-call)	4	8	16	24	40	24	24	24	0	40	4	8	216	$37,544.00	$20,000.00	$0.00	$25,000.00	$0.00	$0.00	$1,000.00	$83,544.00
8.3	City Stormwater Design Standards Review and Update TM	4	8	8	40	40	16	16	0	0	24	4	16	176	$30,032.00	$0.00	$0.00	$5,000.00	$0.00	$0.00	$250.00	$35,282.00
8.4	Seawall height SLR/Surge Inundation Analysis and TM	1	8	24	8	8	60	16	40	0	0	4	40	209	$36,341.00	$0.00	$0.00	$0.00	$0.00	$0.00	$250.00	$36,591.00
8.5	Flood Stage Gauge Monitor Analysis and TM	1	1	4	4	16	4	16	0	8	8	4	16	82	$11,556.00	$0.00	$0.00	$0.00	$0.00	$0.00	$250.00	$11,806.00
8.6	Stormwater Design Assistance and Green Infrastructure (On-call)	2	16	24	24	24	8	8	24	0	16	4	16	166	$30,166.00	$0.00	$0.00	$20,000.00	$0.00	$0.00	$0.00	$50,166.00
8.7	Additional Meetings (6)	4	24	24	0	0	24	0	8	0	0	4	8	96	$20,376.00	$18,000.00	$0.00	$0.00	$0.00	$0.00	$500.00	$38,876.00
8.8	CRS Assistance (On-call)	2	4	4	4	80-	0	16	16	0	0	4	16	66	$10,226.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$10,226.00
8.9	PMP TRAINING (3rd Party Vendor)	0	0	0	0	0	0	0	0	0	0	4	0	4	$460.00	$0.00	$0.00	$0.00	$0.00	$0.00	$33,000.00	$33,460.00
8.10	Continued Field Surveys and Field Inspections / Geotech (Allowance)	2	4	24	0	40	16	12	50	16	16	4	24	208	$34,266.00	$0.00	$0.00	$0.00	$0.00	$165,000.00	$0.00	$199,266.00
8.11	N-S Lake 2D Stormwater Modeling (Allowance)	2	40	40	120	40	80	80	80	16	16	4	16	534	$99,790.00	$0.00	$0.00	$0.00	$0.00	$0.00	$300.00	$100,090.00
	Total Project Hrs Basic and Optional Services Tasks (1-8)	*168*	*1044*	*1526*	*794*	*1164*	*2104*	*1220*	*1190*	*264*	*240*	*92*	*474*	*10260*								
	Total Cost	*$47,880.00*	*$266,220.00*	*$357,084.00*	*$166,740.00*	*$174,600.00*	*$431,320.00*	*$164,700.00*	*$226,100.00*	*$34,320.00*	*$34,800.00*	*$10,580.00*	*$35,550.00*		*$1,946,094.00*	*$119,180.00*	*$0.00*	*$50,000.00*	*$20,000.00*	*$165,000.00*	*$45,700.00*	**$2,345,974.00**
	% of Total	*2.5%*	*13.7%*	*18.3%*	*8.6%*	*9.0%*	*22.2%*	*8.5%*	*11.6%*	*1.8%*	*1.8%*	*0.5%*	*1.8%*										