



PROPOSED CHANGE ORDER REQUEST

Department of Watershed Management

Contract Name: Consent Decree Program Management Services Date: 11/1/2023

Contractor: Jacobs Engineering Group, Inc.

Contract Number: 14-902800 Contract Amendment Number: 5

Contract Amendment Category: Cost Schedule Scope Deliverables

Original Contract \$ Amount:	Contract Start Date:	Original Contract Time:(TERM)	Original Contract End Date:
\$14,865,616.00	4/7/2014	2094	12/31/2019

NTP Start Date:	Original Performance Days:(TIME)	Original Performance End Date:
4/7/2014	1460	4/6/2018

Previous Change Order:	Previous Time Extensions (Days):	Previous Changes to \$ Amount:
Change Order No. 1:	0	\$1,478,169.00
Change Order No. 1A:	0	\$2,885,348.00
Change Order No. 1B:	85	\$1,886,848.00
Change Order No. 2:	731	\$11,363,633.00
Change Order No. 3:	1644	\$25,922,877.00
Change Order No. 4:	0	\$500,000.00

Current Contract Amount:	Current Performance Time (Days):	Current Performance End Date:	Current Contract End Date:
\$58,902,491.00	3920	12/30/2024	12/31/2025

Description of Proposed Changes: (Also see attached documentation) Change order number 5 is proposed to add time, term, scope, and budget to extend the contract for continuation of Consent Decree Program Management services to match the Modified Consent Decree completion date of December 20, 2027. Extension of current services includes; Task 1: Program Management, Task 2: Project Controls, Task 3: Consent Decree Reporting and Compliance Support, Task 4: Implementation of Projects within the CMOM Program (including Hydraulic Modeling, Assessment Projects, GIS Support, Infiltration/Inflow Program, Capacity Request Program, and Rehabilitation Packaging), Task 5: Support of O&M Programs within CMOM (including Cityworks support), Task 6: Document Control, Task 11: CD Projects Technical Services, and Task 12: Additional Technical Services. Within these tasks, some scope has been extended to match the modifications made to the Consent Decree in 2021 including additional reporting, CMOM auditing, support of the Capacity Assurance Program, and technical advisement of Consent Decree (CD) related Capital Improvement Program (CIP) projects to ensure compliance to the Modified Consent Decree (MCD).

Justification of Proposed Changes: (Also see attached documentation) The Department of Watershed Management's (DWM) CD Program has successfully reduced SSOs since the beginning of the CD and met CMOM program implementation deadlines, as well as assessment of the Priority areas. The original Consent Decree had a deadline of June, 2020 and was extended to December 2027 to allow completion of the rehabilitation in Priority areas but also added additional reporting, interim milestones, a Priority Fix List (PFL), implantation of a Capacity Assurance Program, and acceptance of a dynamic hydraulic model. DWM does not have the internal resources to manage the CD without external support, particularly as some of the workload is temporary and will decrease upon completion of the MCD. It is proposed that the CDPMT contract will be extended to continue services through the MCD deadline and requirements. The scope is extended to meet projects and programs that are necessary in the Consent Decree. An extension of this contract will provide technical support through the remainder of the MCD, support to complete assessment of the

remainder of the County's wastewater collection system, technical support of large capacity relief projects and evaluation of impacts of completed rehabilitation projects through the hydraulic model, and transition of completed tasks to DWM.

Proposed Additional Performance Days:	Proposed Cumulative Performance Days:	Proposed Performance End Date:	Proposed Contract End Date:
1085	5005	12/20/2027	12/31/2028
Proposed Changes to Dollar Amount:	Proposed Cumulative Contract Amount:		Amount Spent To Date:
\$32,777,138.00	\$91,679,629.00		\$52,596,943.48

Describe Any Risk Associated With This Change: Risk is mitigated by keeping program management team accountable for the entire Consent Decree. The extension keeps them as engineer of record until final deadline. **The CD PMT** has been embedded with DWM for the last 9 years and contains the institutional knowledge to ensure the County meets all CD deadlines and implements projects needed to reduce SSOs in the system.

Effect of NOT Approving This Change: Changing or eliminating a program management team would put milestones and deadlines in jeopardy of being completed per the Consent Decree.

Engineering Manager's Approval:

Signature:
Print Name & Date:

Watershed Director's Approval:

Signature:
Print Name & Date:

Purchasing & Contracting's Approval:

Signature:
Print Name & Date:

Chief Operating Officer's Approval:

Signature:
Print Name & Date:

Contract Name: Consent Decree Program Management Services

Contractor: Jacobs Engineering Group, Inc.

Contract Number: 14-902800



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 770.621.7271 (f) | 1580 Roadhaven Drive
 DeKalbCountyga.gov | Stone Mountain, GA 30083

Chief Executive Officer
 Michael Thurmond

Board of Commissioners

MEMORANDUM

TO:	Board of Commissioners, DeKalb County	District 1 Robert Patrick
THROUGH:	Mr. Zachary Williams, Chief Operating Officer, DeKalb County	District 2 Michelle Long Spears
FROM:	David Hayes, Director, Department of Watershed Management	District 3 Larry Johnson
DATE:	October 17, 2023	District 4 Stephen Bradshaw
SUBJECT:	CO. 5 Consent Decree Program Management	District 5 Mereda Davis Johnson
		District 6 Edward "Ted" Terry
		District 7 Lorraine Cochran-Johnson

Purpose: Money & Time Extension

- Contract Term: Expires 12/31/2025 – Extend to 12/31/2028
- Performance Term: Expires 12/31/2024 (CO 3) – Extend 12/31/2027
- Additional Funding Request: \$32,777,138 (Total \$91,679,630)

Funding Request Justification:

The original Consent Decree (CD) had a deadline of June 20, 2020. While the County was in negotiations with EPA/EPD for a CD extension, the CDPMT contract was extended to December 31, 2024 to maintain continuity and technical support through negotiations and implementation of new requirements from the Modified Consent Decree (MCD). When the MCD was entered on September 22, 2021, it extended the completion date to December 20, 2027. It is proposed that the contract be extended to continue critical services associated with completion of the MCD deadline and requirements. An extension of the contract’s scope is necessary to continue implementation of projects and programs required under the Consent Decree. An extension of this contract will provide the following: technical support for the additional reporting and coordination with EPA/EPD as required by the MCD, support to complete assessment of the remainder of the County's wastewater collection system, update and maintenance of the approved dynamic hydraulic model, updates of the County’s GIS with completed projects, technical support for the County’s I/I Program, implementation support of the Capacity Assurance Program, technical advisement on MCD compliance of large capacity relief projects and evaluation of impacts of completed rehabilitation projects through the hydraulic model, and transition of tasks to DWM at the conclusion of the contract extension.

History:

The County entered a Consent Decree with EPA/EPD on their wastewater collection and transmission system in December 2012. Jacobs, previously CH2M, was provided a contract in April 2014 to be the Consent Decree Program Manager, providing technical support to the County necessary to comply with Consent Decree requirements, reduce SSOs, and continue development within the County. Through the previous nine years as Program Manager, Jacobs has provided technical support to the County to submit CD-required plans and reports and subsequently implement these plans into the current Capacity, Management, Operations, and Maintenance (CMOM) programs. This includes:

- establishing a long term flow monitoring program that has been transitioned to DWM
- supporting the GIS mapping program through management of initial data collection, continued data cleanup and QC as well as transition to the Countywide GIS system. Currently providing GIS support in incorporating as-builts from completed capital and development projects into GIS.
- development and calibration of the static, and subsequently dynamic countywide hydraulic models used for the capacity certification process and optimization of large capacity relief projects. Continued use of models to respond to Requests for Information (RFIs) during design and construction, to evaluate effectiveness of I/I reduction through rehabilitation, and support of Capacity Assurance Program.
- management of the County's sewer assessment contractors performing Sanitary Sewer Evaluation Survey (SSES) in 100% of the PASARP areas within the County and continuing through the remainder of the County. This data is evaluated to establish and prioritize critical rehabilitation needs
- supporting DWM in establishing Cityworks as the Computerized Maintenance Management System (CMMS) for its sewer collection and transmission system and training DWM staff as well as contractors in use of the Cityworks work order system to transparently document and report completed work

Additional Information:

Consent Decree: With the MCD entered in 2021, the County's need for a Consent Decree Program Manager continued with that extension to ensure compliance with the terms of the agreed upon modification while also addressing the County's overall goal to reduce environmental impact beyond CD requirements, support development within the County, and provide improved level of service to the citizenry. The change order scope will retain the same tasks in the existing scope of work with some additional complexity in subtasks including:

- Task 3 – CD Compliance and Reporting – additional reporting requirements from the MCD in the quarterly, semi-annual, and annual reports as well as an additional annual interim milestones report. Support is also provided for quarterly meetings with EPA/EPD's technical teams to provide responses and insight to any of their concerns and questions.
- Task 4 – CMOM Program – Implementation of Projects – Use of the hydraulic model to optimize large capacity relief projects, evaluate effectiveness of projects after construction, and continue to support capacity requests. Also continue to manage the assessment contractors as they continue SSES activities in the OSARP areas. In addition, providing management and technical support for Operations contracts in relation to the MCD including small diameter sewer cleaning, easement clearing, sanitary sewer creek crossing inspection, and chemical root control.

- Task 5 – CMOM Program – Implementation Support and Assistance Related to O&M Activities – Support the increasing scope of systems that utilize Cityworks with DWM as well as planned transition of all Cityworks responsibility to DWM. This includes implementation of Cityworks in other areas of DWM including lift stations and facilities.
- Task 11 – Consent Decree Projects Technical Services – Development of preliminary design reports for large capacity relief projects for design and construction by others while continuing to provide technical oversight to ensure any changes continue to meet Consent Decree needs.
- Task 12 – Additional Services – Provide Cityworks implementation support and best practices for Roads and Drainage. This includes development of reports and queries for ease of use and annual MS4 reporting, training of Roads and Drainage staff, and public outreach support through communications templates and processes. In addition, will provide support to DWM Treatment Facilities in updating existing SCADA interface system to assist operations staff.

Financials:

Invoiced to date (August 2023)	\$53,838,239
Anticipated for Invoice Sept 2023 – Mar 2024	\$5,064,253
Total:	\$58,902,492
Contract Value	\$58,902,492

Summary:

- The original contract end date was determined by aligning with the end of the CD
- The MCD extended the County’s deadline to December 20, 2027.
- The Change Order for the Consent Decree Program Manager is necessary to ensure continued compliance for the CD modification terms including addressing additional reporting needs, further development of the Capacity Assurance Program, management of assessment contracts within the OSARP, and hydraulic modeling support.

Cc:

Maria Houser, Director Consent Decree, CIP and Environmental Compliance, Office of the Chief Executive

Brent Zern, Assistant Director Consent Decree and Environmental Compliance, Department of Watershed Management

Michelle Butler, Lead Procurement Manager, Purchasing and Contracting Department

COST PROPOSAL

October 2023

Task 1 -- Program Development and Management

Job Title	2024 (March - December)				2025 (January - December)				2026 (January - December)				2027 (January - December)			
	FTE*	Labor Hours	Hourly Billable Rate (\$)	Labor Cost (\$)	FTE*	Labor Hours	Hourly Billable Rate (\$)	Labor Cost (\$)	FTE*	Labor Hours	Hourly Billable Rate (\$)	Labor Cost (\$)	FTE*	Labor Hours	Hourly Billable Rate (\$)	Labor Cost (\$)
Program Director	0.8	1664	252	419,328	1.0	1984	260	515,840	1.0	2000	268	536,000	1.0	1964	276	542,064
Deputy Program Manager	0.4	832	223	185,536	0.5	992	230	228,160	0.5	1000	237	237,000	0.5	982	244	239,608
Subtotals -- by Yr	1.2	2496		604,864	1.5	2976		744,000	1.5	3000		773,000	1.5	2946		781,672
Other Direct Costs				135,424				138,509				138,509				138,509
Total Costs (Task 1)				740,288				882,509				911,509				920,181
																SUB-TOTAL
																3,454,486

Task 2 -- CD Budget, Schedule and Cost

Job Title	2024 (March - December)				2025 (January - December)				2026 (January - December)				2027 (January - December)			
	FTE*	Labor Hours	Hourly Billable Rate (\$)	Labor Cost (\$)	FTE*	Labor Hours	Hourly Billable Rate (\$)	Labor Cost (\$)	FTE*	Labor Hours	Hourly Billable Rate (\$)	Labor Cost (\$)	FTE*	Labor Hours	Hourly Billable Rate (\$)	Labor Cost (\$)
Program Controls Manager	0.8	1664	205	341,120	1.0	1984	211	418,624	1.0	2000	217	434,000	1.0	1964	224	439,936
Subtotals -- by Yr	0.8	1664		341,120	1.0	1984		418,624	1.0	2000		434,000	1.0	1964		439,936
Other Direct Costs																
Total Costs (Task 2)				341,120				418,624				434,000				439,936
																SUB-TOTAL
																1,633,680

Task 3 -- CD Reporting

Job Title	2024 (March - December)				2025 (January - December)				2026 (January - December)				2027 (January - December)			
	FTE*	Labor Hours	Hourly Billable Rate (\$)	Labor Cost (\$)	FTE*	Labor Hours	Hourly Billable Rate (\$)	Labor Cost (\$)	FTE*	Labor Hours	Hourly Billable Rate (\$)	Labor Cost (\$)	FTE*	Labor Hours	Hourly Billable Rate (\$)	Labor Cost (\$)
Principal Technologist	0.1	264	223	58,872	0.2	380	230	87,400	0.2	380	237	90,060	0.2	380	244	92,720
Project Technologist I	0.4	832	146	121,472	0.5	992	150	148,800	0.5	1000	155	155,000	0.5	982	160	157,120
Staff Consultant II	0.0	32	111	3,552	0.0	48	114	5,472	0.0	48	117	5,616	0.0	48	121	5,808
Subtotals -- by Yr	0.6	1128.0		183,896	0.7	1420.0		241,672	0.7	1428.0		250,676	0.7	1410.0		255,648
Other Direct Costs																
Total Costs (Task 3)				183,896				241,672				250,676				255,648
																SUB-TOTAL
																931,892

Task 4 -- CMOM Programs - Implementation of Projects

Job Title	2024 (March - December)				2025 (January - December)				2026 (January - December)				2027 (January - December)			
	FTE*	Labor Hours	Hourly Billable Rate (\$)	Labor Cost	FTE*	Labor Hours	Hourly Billable Rate (\$)	Labor Cost	FTE*	Labor Hours	Hourly Billable Rate (\$)	Labor Cost	FTE*	Labor Hours	Hourly Billable Rate (\$)	Labor Cost
Deputy Program Manager	0.4	832	223	185,536	0.5	992	230	228,160	0.5	1000	237	237,000	0.5	982	244	239,608
Principal Technologist	0.8	1588	223	354,124	0.9	1877	230	431,710	0.9	1856	237	439,872	0.9	1820	244	444,080
Project Technologist III	0.4	700	181	126,700	0.3	622	186	115,692	0.2	312	192	59,904	0.2	312	198	61,776
Senior Engineer II	1.6	3240	181	586,440	1.9	3864	186	718,704	1.9	3896	192	748,032	1.0	1964	198	388,872
Senior Engineer I	1.7	3328	170	565,760	2.0	3968	175	694,400	2.0	4000	180	720,000	1.5	2946	185	545,010
Project Technologist II	0.8	1680	164	275,520	1.0	2000	169	338,000	1.0	2016	174	350,784	1.0	1980	179	354,420
Project Engineer III	2.1	4160	146	607,360	2.5	4960	150	744,000	2.5	5000	155	775,000	2.5	4910	160	785,600
Project Technologist I	2.2	4324	146	631,304	2.1	4152	150	622,800	2.2	4440	155	688,200	2.2	4332	160	693,120
Project Engineer II	1.7	3328	128	425,984	2.0	3968	132	523,776	2.3	4000	136	544,000	2.2	3928	140	549,920
Staff Consultant III	1.2	2322	128	297,216	0.3	660	132	87,120	0.1	120	136	16,320	0.0	0	140	-
Project Engineer I	0.8	1664	111	184,704	1.0	1984	114	226,176	1.0	2000	117	234,000	1.0	1964	121	237,644
Staff Consultant I	4.6	9288	111	1,030,968	4.3	8546	114	974,244	3.0	6000	117	702,000	2.5	4910	121	594,110
Document Controls Consultant	0.4	832	111	92,352	0.5	992	114	113,088	1.0	2000	117	234,000	1.0	1964	121	237,644
Subtotals -- by Yr	18.6	37286		5363968	19.3	38585		5817870	18.6	36640		5749112	16.3	32012		5131804
Other Direct Costs																
Total Costs (Task 4)	5,363,968				5,817,870				5,749,112				5,131,804			
SUB-TOTAL																
22,062,754																

Task 5 -- CMOM Programs - Implementation of O&M Activities

Job Title	2024 (March - December)				2025 (January - December)				2026 (January - December)				2027 (January - December)			
	FTE*	Labor Hours	Hourly Billable Rate (\$)	Labor Cost	FTE*	Labor Hours	Hourly Billable Rate (\$)	Labor Cost	FTE*	Labor Hours	Hourly Billable Rate (\$)	Labor Cost	FTE*	Labor Hours	Hourly Billable Rate (\$)	Labor Cost
Project Technologist I	0.6	1100	146	160,600	0.7	1320	150	198,000	0.7	1320	155	204,600	0.8	1320	160	211,200
Subtotals -- by Yr	0.6	1100		160,600	0.7	1320		198,000	0.7	1320		204,600	0.8	1320		211,200
Other Direct Costs																
Total Costs (Task 5)	160,600				198,000				204,600				211,200			
SUB-TOTAL																
774,400																

Task 6 -- Document Management

Job Title	2024 (March - December)				2025 (January - December)				2026 (January - December)				2027 (January - December)			
	FTE*	Labor Hours	Hourly Billable Rate (\$)	Labor Cost	FTE*	Labor Hours	Hourly Billable Rate (\$)	Labor Cost	FTE*	Labor Hours	Hourly Billable Rate (\$)	Labor Cost	FTE*	Labor Hours	Hourly Billable Rate (\$)	Labor Cost
Document Controls Consultant	0.4	832	111	92,352	0.5	992	114	113,088	0.5	1000	117	117,000	0.5	982	121	118,822
Admin Assist/Accounting Specialist	0.0	40	82	3,280	0.0	48	84	4,032	0.0	48	87	4,176	0.0	48	90	4,320
Subtotals -- by Yr	0.4	872		95,632	0.5	1040		117,120	0.5	1048		121,176	0.5	1030		123,142
Other Direct Costs																
Total Costs (Task 6)	95,632				117,120				121,176				123,142			
SUB-TOTAL																
457,070																

Task 11 -- Consent Decree Technical Services

Job Title	2024 (March - December)					2025 (January - December)					2026 (January - December)					2027 (January - December)				
	FTE*	Labor Hours	Hourly Billable Rate (\$)	Labor Cost (\$)	FTE*	Labor Hours	Hourly Billable Rate (\$)	Labor Cost (\$)	FTE*	Labor Hours	Hourly Billable Rate (\$)	Labor Cost (\$)	FTE*	Labor Hours	Hourly Billable Rate (\$)	Labor Cost (\$)				
Principal Technologist	0.8	1616	223	360,368	0.9	1876	230	431,480	0.9	1892	237	448,404	0.9	1856	244	452,864				
Senior Engineer II	0.0	88	181	15,928	0.1	104	186	19,344	0.1	104	192	19,968	0.1	104	198	20,592				
Document Controls Consultant	0.4	832	111	92,352	0.5	992	114	113,088	0.0	0	117	-	0.0	0	121	-				
Subtotals -- by Yr	1.3	2536		468,648	1.5	2972		563,912	1.0	1996		468,372	1.0	1960		473,456				
Other Direct Costs																				
Total Costs (Task 11)				468,648				563,912				468,372				473,456				
SUB-TOTAL																1,974,388				

Task 12 -- Additional Services

Job Title	2024 (March - December)					2025 (January - December)					2026 (January - December)					2027 (January - December)				
	FTE*	Labor Hours	Hourly Billable Rate (\$)	Labor Cost (\$)	FTE*	Labor Hours	Hourly Billable Rate (\$)	Labor Cost (\$)	FTE*	Labor Hours	Hourly Billable Rate (\$)	Labor Cost (\$)	FTE*	Labor Hours	Hourly Billable Rate (\$)	Labor Cost (\$)				
Principal Technologist	0.3	610	223	136,030	0.0	0	230	-	0.0	0	237	-	0.0	0	244	-				
Project Technologist III	0.5	980	181	177,380	0.2	320	186	59,520	0.2	320	192	61,440	0.2	320	198	63,360				
Project Technologist I	1.4	2802	146	409,092	0.4	740	150	111,000	0.1	240	155	37,200	0.1	240	160	38,400				
Project Engineer I	0.9	1850	111	205,350	0.8	1664	114	189,696	0.0	0	117	-	0.0	0	121	-				
Subtotals -- by Yr	0.1	221		927,852	0.0	0		360,216	0.0	0		98,640	0.0	0		101,760				
Other Direct Costs																				
Total Costs (Task 12)				927,852				360,216				98,640				101,760				
SUB-TOTAL																1,488,468				

Total of all Tasks by Year

Year 2024	\$ 8,282,004
Year 2025	\$ 8,599,923
Year 2026	\$ 8,238,085
Year 2027	\$ 7,657,127
Total	\$ 32,777,138

ATTACHMENT B
CHANGE ORDER/AMENDMENT SCOPE OF WORK
Beginning March 1, 2024

TASK 1--PROGRAM MANAGEMENT

Continuation of Services

- Provide full-time management for Consent Decree Program Management Team (CDPMT)
- Schedule, plan and conduct and/or attend significant CDPMT project status and other meetings
- Meet with DWM staff for monthly progress updates on CD program efforts
- Attend BOC meetings and other public meetings, regarding and related to the Consent Decree (CD), when and as requested by the DWM
- Coordinate LSBE partner and other subcontractor activities, including periodic principal briefings

TASK 2--PROJECT CONTROLS (CD Budget, Schedule and Cost)

Continuation of Services

- Track and report interim and final CD milestone dates, as identified within the CD document, CMOM plans, or other reports and information as may be developed in the future
- Update program Master Schedule on a regular, monthly basis, by reviewing work accomplished, deadlines and milestones with Task Leads, and produce final program Master Schedule update for distribution to DWM and CDPMT
- Review backup documents for CDPMT invoice packages on a regular, monthly basis and respond to DWM questions or inquiries
- With DWM approval, issue new Subcontractor task orders when required; administer and maintain records and timesheets for Subcontractors, and track Subcontractor spending, payment and outstanding contract balances

TASK 3—CD REPORTING AND COMPLIANCE SUPPORT

Continuation of Services

- For Annual and Semi-Annual Reports required by the CD, develop draft reports by working with CD Leads (both CDPMT and DWM), for submittal to DWM. Reports will then be finalized by DWM and submitted to EPA/EPD accordingly
- Utilize program Master Schedule , in an abbreviated form showing activities from the last six-month period and also for the next six-month period, to serve as the basis of the Semi-Annual Report
- Utilize the business intelligence (BI) software adopted for use by the DWM for development of the Annual Report Trends Analysis of SSOs
- Provide support for DWM review and work plan developments of EPA-identified complaints related to sanitary sewer overflows (SSOs)
- Assist in the development of the SSO trend analysis report for EPA

- Provide technical support for EPA/EPD Presentations and for DWM responses to requests for information from EPA/EPD
- Provide technical support in negotiations for Consent Decree amendments and development of additional plans and programs as a result of amendment
- Attend monthly DWM SSO meetings and provide support for development of rehabilitation project definition and implementation for SSO Escalation and Priority Fix List Projects
- Provide support for additional reporting as required by the Consent Decree including but not limited to tracking of Priority Fix List, Quarterly Reporting, and progress of CD milestones
- Develop and regularly update one-page work plans for SSO Escalation and EPA-identified projects resulting from assessments previously described, through resolution
- Support DWM in development of CMOM Program Audit materials and develop audit workflow.

TASK 4—CMOM PROGRAMS—IMPLEMENTATION OF PROJECTS

Continuation of Services

- GIS Mapping
 - Provide ongoing technical support for Feature Manipulation Engine (FME).
 - Assist DWM to create a SOP to be able to communicate data requirements to contractors and subcontractors so that their submittals can be easily reviewed and incorporated into GIS.
- Flow Monitoring Support
 - Provide technical support for data QC for flow monitoring data collected and managed by DWM. This includes scheduled audits of QC processes and outputs.
- Hydraulic Modeling
 - Meet regularly with DWM modelers for the purpose of communicating updates by each party to the model and/or the information related to the model, and to discuss and resolve other issues and questions
 - Update and recalibrate the hydraulic model as requested and required by DWM based on updated GIS data, lift station operation data, and flow monitoring data collected
 - Conduct additional model runs under different scenarios as requested and required by DWM for particular areas of interest and as required for coordination of ongoing CIP projects
 - Conduct additional model runs for the gravity collection system de-bottlenecking projects based on changes to the GIS
 - Capacity upsizing of gravity sewer collection system pipelines as required by the CD and relevant program documents
 - Utilize the model to develop and optimize preliminary capacity relief projects
- Assessment Projects
 - Provide project management, implementation and contract administration duties related to field activity, submittals, financials and schedules of assessment contracts
 - Also develop SSO Escalation and EPA-identified project limits and associated work assignments

- Track and update progress of these projects on a regular basis, and make work assignments as appropriate for additional projects that arise, through coordination with existing contracts
- Develop and update SOPs and workflows based on lessons learned and additional scope added.
- Review historical assessment data and SSO reports and develop an operational optimization plan aimed at reducing dry weather SSOs
- Develop a Decision Support System (DSS) Tool that aggregates data from various sources and applies logic to generate recommendations on preventative maintenance
- Assisting with Infiltration and Inflow Program
 - Provide DWM with assessment databases that provide the smoke defect data and pictures
 - Provide training on the mobile map application that is used to review the smoke assessment data
 - Assist DWM with resolving incorrect addresses for identified smoke defects
 - Provide technical support for the infiltration and inflow program as requested by DWM
 - Coordinate with DWM to conduct flow monitoring and use data with model to perform post-construction I/I analysis
 - Provide technical support in identifying sources of private I/I
- Rehabilitation Packaging
 - Develop recommended rehabilitation projects resulting from collected assessment data and information, and assemble rehabilitation packages for implementation, including SSO Escalation and EPA-identified projects as appropriate, for implementation through various rehabilitation contracts
- Capacity Request Program
 - Provide technical and support services regarding development and implementation of the Capacity Request Program. This may include the development and implementation of the Capacity Request Program including development and implementation of an Information Management System for Infiltration/Inflow (I/I) credit banking

Additional Services

- Assessment Projects
 - Provide field support services for County assessment contractors through inspection and construction management.
- GIS Mapping
 - Update GIS with record drawing data from completed sewer and water main projects.
 - Develop sewer and water network in GIS not by adding additional assets but by connecting the existing disconnected assets into one cohesive system. This will improve data accuracy and improved efficiency when QCing the system.
 - Add readily available Right of Way information to GIS.

TASK 5—CMOM PROGRAM--IMPLEMENTATION SUPPORT AND ASSISTANCE RELATED TO O&M ACTIVITIES

Continuation of Services

- Cityworks CMMS Implementation
 - Provide ongoing support for Cityworks including training for County and contractor staff, through software upgrades including testing and coordination with interdependent software packages
 - Provide support in transition of other CMMS databases into Cityworks
 - Develop KPI reports within Cityworks including dashboards to provide information at an executive level
 - Integration of Cityworks with systems used by the County including, but not limited to, InfoAsset Planner as well as developing links to CCTV and inspection information collected by the Assessment contractors

Additional Services

- Cityworks CMMS Implementation
 - Develop custom reports for project support and QC.
 - Provide technical support in implementation of Cityworks for Treatment plants

TASK 6—DOCUMENT MANAGEMENT

Continuation of Services

- Continue implementation of established document management procedures for recording, indexing, filing and retrieving active CDPMT documents and the storage of inactive documents
- Maintain Microsoft Access database for incoming and outgoing documents

TASK 11—CONSENT DECREE PROJECTS TECHNICAL SERVICES

Continuation of Services

- Large Capacity Relief Project RFP Development
 - Develop RFPs for provision of design/build services for:
 - Large diameter capacity relief collection system improvements
- Technical Services for CD-Related Design Trunk Capacity Projects

Jacobs developed the dynamic hydraulic models for the County and is performing CIP optimization for large diameter capacity projects through Task 4. The scope of these projects may be of sufficient size that the design and construction will be procured as separate contracts through Design-Build or Design-Bid-Build. DWM intends to provide Construction Management services through other contracts for consent decree (CD)-related Construction projects. Jacobs will provide technical services as requested of the contracts required by DWM to meet CD goals which include the following:

- Determine effectiveness of comprehensive rehabilitation where applied and provide analysis of need for additional capacity relief projects
- Track and inventory ongoing and completed large diameter capacity relief projects

Jacobs will provide technical support services during 60% Design. DWM will provide management of the contracts during Final design and Construction. Technical support services may include the following:

- Technical Development of Needed Services including, but not limited to, providing technical support for RFP document preparation, pre-proposal meetings, responses to technical questions regarding the RFP, and assisting in review of proposals.
- Design Support including, but not limited to, support of design review and review meetings, assistance with technical design issues, attending progress meetings, reviewing progressive construction estimates and reviewing pay applications.

TASK 12—ADDITIONAL SERVICES

- This task is intended to provide services for work not anticipated at this time, but requested and required by DWM for needs related to CD compliance and other technical support throughout the term of this contract. This could include but is not limited to services in the following areas:
 - Other Professional Services
 - Other professional services related to CD compliance and reporting not previously covered

Continuation of Services

- Provide Cityworks implementation support and best practices for Roads and Drainage. This may include but not limited to providing GIS support, developing/updating Cityworks templates, SOPs, reports, provide training, developing communications templates and processes.

Additional Services

- Provide a Project Manager to act as Owner's Representative for assessment contracts within Roads and Drainage.
- Provide support in development of an overall communications plan for stormwater aspects of Roads and Drainage.
- Provide technical support in developing MS4 annual reports and providing response to comments from EPD. Assist in update of Stormwater Management Plan.
- Provide support to DWM Treatment Facilities in updating their existing SCADA interface system and develop associated reports, interfaces, etc. to assist operations staff.

ASSUMPTIONS

- Jacobs will reasonably rely upon the accuracy, and completeness of the information/data provided by the Client or other third parties.
- If Jacobs is called upon to observe the work of Owner's construction contractor(s) for the detection of defects or deficiencies in such work, Jacobs will not bear any responsibility or liability for such defects or deficiencies or for the failure to so detect. Jacobs shall not have control over or charge of and shall not be responsible for construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the work of each of the contractors since these are solely the contractor's responsibility under contract for construction between Owner and contractor.