

**SCHEDULE 2A-1
SUBCONTRACTOR WORK IDENTIFICATION**

Project Name: Sewer Collection System- Overall Engineering Consultant (OEC)						Dept. of Public Utilities	Date: 2/6/2018	
Project Number: 650025-100000						Division: Sewerage & Drainage		
City Project Manager: Jehan Alkhayri						Contract Amt or Mod (\$):		
PM Phone #: 614-645-5423						\$299,884.39		
Prime Contractor/Consultant: Hazen and Sawyer		Ordinance #: 0524-2018				Contract Duration: 12 months		
Contractor and Subcontractor CCCN, Scope, and Funding Summary								
	Name / Address	Prime or Sub	Contact Information	C.C.# / Expires	DAX Vendor #	Firm Type	Contract or Mod Scope	Contract or Mod Amount & %
1	Hazen and Sawyer 150 E. Campus View Blvd. Columbus, Ohio 43235	Prime	Kathleen Smith	13-2904652 3/14/2018		MAJ	Project Management Regulatory Assistance Engineering	\$167,676.96 55.9%
2	Brown and Caldwell 4700 Lakehurst Court, Suite 100 Columbus, Ohio 43016	Sub	Steve Donovan	94-1446346 8/26/2017		MAJ	CMOM Condition Assessments	\$ 54,528.00 18.2%
3	Coldwater Consulting, LLC 77 S 18th Street Columbus, OH 43205	Sub	Kristen Risch	27-3377013 4/30/2017		FBE	Grant and Loan Green Infrastructure Expertise	\$ 17,969.30 6.0%
4	Hatch 88 East Broad St, Suite 1980 Columbus, OH 43215	Sub	Roger Harris	20-2401674 5/18/2017		MAJ	CSSOMP Electrical Assistance	\$ - 0.0%
5	Stantec 1500 Lake Shore Drive, Suite 100 Columbus, Ohio 43204	Sub	Elie Sabbagh	11-2167170 9/10/2017		MAJ	Program Support Engineering Assistance Design and Construction	\$ 28,851.70 9.6%
6	CH2M Two Easton Oval, Suite 500 Columbus, Ohio 43219	Sub	Mark Pochodylo	32-0100027 12/2/2016		MAJ	SCREAM Assistance Reliability Engineering	\$ 4,303.87 1.4%
7	T&M 4675 Lakehurst Court Columbus, Ohio 43016	Sub	Donald Pinto	22-1806708 9/12/2018		MAJ	Air Regulatory Services Environmental Auditing	\$ 5,428.68 1.8%
8	Dynotec 2931 E Dublin-Granville Rd, Suite 200 Columbus, Ohio 43231	Sub	Tobias Iloka	31-1319961 4/30/2017		MAJ	WAM Data Entry	\$ 21,125.88 7.0%
			Approved:				TOTAL CONTRACT or Mod AMOUNT	\$299,884.39
DPU Fiscal Revised 8/9/2016			Date:				Total Percentage	100.0%

		Total	Hazen	BC	Stantec
1.1	Collection System Master Planning	284	204	0	0
1.2	Collection System Improvements Investigations	0	0	0	0
1.3	Basis of Design	0	0	0	0
1.4	Program and Budget Support	547	331	0	16
1.5	Air Quality Sampling, Analysis & Modeling	0	0	0	0
1.6	Negotiation Assistance	0	0	0	0
1.7	DOSD Environmental Audit	0	0	0	0
1.8	CSSOMP	0	0	0	0
2.1	Capital Improvement Project Design Document Review	0	0	0	0
2.2	Value Engineering	0	0	0	0
2.3	Master Specification, Documents and Plans Update	133	20	0	93
2.4	Lift Station Condition Assessment	0	0	0	0
3.1	Bid Review Assistance	0	0	0	0
3.2	Construction Document Review	0	0	0	0
3.3	Construction Claims	0	0	0	0
3.4	Online O&M Updates and Training	0	0	0	0
4.1	DOSD Environmental Elements	0	0	0	0
4.2	Grant and Loan Assistance	0	0	0	0
4.3	Surveys	0	0	0	0
4.4	Easement Information	0	0	0	0
4.5	Soils and Geotechnical	0	0	0	0
4.6	Laboratory Analysis	0	0	0	0
4.7	Reports and Presentations	0	0	0	0
4.8	Economic Studies	0	0	0	0
4.9	SCREAM Programming	16	0	0	0
4.10	Electrical and I&C	0	0	0	0
4.11	Reliability Engineering	0	0	0	0
4.12	CMOM Continuation	270	30	240	0
4.13	Stormwater Federal Regulations	0	0	0	0
5	Project Management	130	130	0	0
		0	0	0	0
		0	0	0	0
		0	0	0	0
		0	0	0	0
		0	0	0	0
		0	0	0	0
		0	0	0	0
		1380	715	240	109

Coldwater	CH	Chester	TM	Dynotec	
0	0	0	0	80	
0	0	0	0	0	
0	0	0	0	0	
160	0	0	0	40	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	20	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
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0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	16	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
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0	0	0	0	0	
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0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
160	16	0	20	120	

SCHEDULE 5 - ESTIMATE OF COST ALLOCATION BY TASK ACTIVITY (SUBCONSULTANT)

Project Title: _____
CIP NO.: _____

TASK NO.	ACTIVITY	Brown and Caldwell															TASK SUBTOTAL		
		Staff Hours												Costs					
		PR	PM	SPE	PE	DE	ET	DR	CL	RS	FP			TOTAL	Direct Labor	Indirect Labor		ODCs	
1.1	Collection System Master Planning														0	\$0.00	\$0.00		\$0.00
1.2	Collection System Improvements Investigations														0	\$0.00	\$0.00		\$0.00
1.3	Basis of Design														0	\$0.00	\$0.00		\$0.00
1.4	Program and Budget Support														0	\$0.00	\$0.00		\$0.00
1.5	Air Quality Sampling, Analysis & Modeling														0	\$0.00	\$0.00		\$0.00
1.6	Negotiation Assistance														0	\$0.00	\$0.00		\$0.00
1.7	DOSD Environmental Audit														0	\$0.00	\$0.00		\$0.00
1.8	CSSOMP														0	\$0.00	\$0.00		\$0.00
2.1	Capital Improvement Project Design Document Review														0	\$0.00	\$0.00		\$0.00
2.2	Value Engineering														0	\$0.00	\$0.00		\$0.00
2.3	Master Specification, Documents and Plans Update														0	\$0.00	\$0.00		\$0.00
2.4	Lift Station Condition Assessment														0	\$0.00	\$0.00		\$0.00
3.1	Bid Review Assistance														0	\$0.00	\$0.00		\$0.00
3.2	Construction Document Review														0	\$0.00	\$0.00		\$0.00
3.3	Construction Claims														0	\$0.00	\$0.00		\$0.00
3.4	Online O&M Updates and Training														0	\$0.00	\$0.00		\$0.00
4.1	DOSD Environmental Elements														0	\$0.00	\$0.00		\$0.00
4.2	Grant and Loan Assistance														0	\$0.00	\$0.00		\$0.00
4.3	Surveys														0	\$0.00	\$0.00		\$0.00
4.4	Easement Information														0	\$0.00	\$0.00		\$0.00
4.5	Soils and Geotechnical														0	\$0.00	\$0.00		\$0.00
4.6	Laboratory Analysis														0	\$0.00	\$0.00		\$0.00
4.7	Reports and Presentations														0	\$0.00	\$0.00		\$0.00
4.8	Economic Studies														0	\$0.00	\$0.00		\$0.00
4.9	SCREAM Programming														0	\$0.00	\$0.00		\$0.00
4.10	Electrical and I&C														0	\$0.00	\$0.00		\$0.00
4.11	Reliability Engineering														0	\$0.00	\$0.00		\$0.00
4.12	CMOM Continuation			240											240	\$17,040.00	\$37,488.00		\$54,528.00
4.13	Stormwater Federal Regulations														0	\$0.00	\$0.00		\$0.00
5	Project Management														0	\$0.00	\$0.00		\$0.00
															0	\$0.00	\$0.00		\$0.00
															0	\$0.00	\$0.00		\$0.00
															0	\$0.00	\$0.00		\$0.00
															0	\$0.00	\$0.00		\$0.00
															0	\$0.00	\$0.00		\$0.00
															0	\$0.00	\$0.00		\$0.00
															0	\$0.00	\$0.00		\$0.00
Totals		0	0	240	0	0	0	0	0	0	0	0	0	0	240	\$17,040.00	\$37,488.00	\$0.00	\$54,528.00

PR - Principal SPE - Senior Project Engineer DE - Design Engineer DR - Drafter RS - Registered Surveyor
PM - Project Manager PE - Project Engineer ET - Eng. Technician CL - Clerical FP - Field Person

**SCHEDULE 5 - ESTIMATE OF COST
ALLOCATION BY TASK ACTIVITY (SUBCONSULTANT)**

Project Title: _____
CIP NO.: _____

TASK NO.	ACTIVITY	Coldwater Consulting																	TASK SUBTOTAL
		Staff Hours													Costs				
		PR	PM	SPE	PE	DE	ET	DR	CL	RS	FP			TOTAL	Direct Labor	Indirect Labor	ODCs		
1.1	Collection System Master Planning													0	\$0.00	\$0.00	\$0.00	\$0.00	
1.2	Collection System Improvements Investigations													0	\$0.00	\$0.00	\$0.00	\$0.00	
1.3	Basis of Design													0	\$0.00	\$0.00	\$0.00	\$0.00	
1.4	Program and Budget Support		20		60		80							160	\$6,009.80	\$11,959.50		\$17,969.30	
1.5	Air Quality Sampling, Analysis & Modeling													0	\$0.00	\$0.00		\$0.00	
1.6	Negotiation Assistance													0	\$0.00	\$0.00		\$0.00	
1.7	DOSD Environmental Audit													0	\$0.00	\$0.00		\$0.00	
1.8	CSSOMP													0	\$0.00	\$0.00		\$0.00	
2.1	Capital Improvement Project Design Document Review													0	\$0.00	\$0.00		\$0.00	
2.2	Value Engineering													0	\$0.00	\$0.00		\$0.00	
2.3	Master Specification, Documents and Plans Update													0	\$0.00	\$0.00		\$0.00	
2.4	Lift Station Condition Assessment													0	\$0.00	\$0.00		\$0.00	
3.1	Bid Review Assistance													0	\$0.00	\$0.00		\$0.00	
3.2	Construction Document Review													0	\$0.00	\$0.00		\$0.00	
3.3	Construction Claims													0	\$0.00	\$0.00		\$0.00	
3.4	Online O&M Updates and Training													0	\$0.00	\$0.00		\$0.00	
4.1	DOSD Environmental Elements													0	\$0.00	\$0.00		\$0.00	
4.2	Grant and Loan Assistance													0	\$0.00	\$0.00		\$0.00	
4.3	Surveys													0	\$0.00	\$0.00		\$0.00	
4.4	Easement Information													0	\$0.00	\$0.00		\$0.00	
4.5	Soils and Geotechnical													0	\$0.00	\$0.00		\$0.00	
4.6	Laboratory Analysis													0	\$0.00	\$0.00		\$0.00	
4.7	Reports and Presentations													0	\$0.00	\$0.00		\$0.00	
4.8	Economic Studies													0	\$0.00	\$0.00		\$0.00	
4.9	SCREAM Programming													0	\$0.00	\$0.00		\$0.00	
4.10	Electrical and I&C													0	\$0.00	\$0.00		\$0.00	
4.11	Reliability Engineering													0	\$0.00	\$0.00		\$0.00	
4.12	CMOM Continuation													0	\$0.00	\$0.00		\$0.00	
4.13	Stormwater Federal Regulations													0	\$0.00	\$0.00		\$0.00	
5	Project Management													0	\$0.00	\$0.00		\$0.00	
														0	\$0.00	\$0.00		\$0.00	
														0	\$0.00	\$0.00		\$0.00	
														0	\$0.00	\$0.00		\$0.00	
														0	\$0.00	\$0.00		\$0.00	
														0	\$0.00	\$0.00		\$0.00	
														0	\$0.00	\$0.00		\$0.00	
														0	\$0.00	\$0.00		\$0.00	
														0	\$0.00	\$0.00		\$0.00	
														0	\$0.00	\$0.00		\$0.00	
														0	\$0.00	\$0.00		\$0.00	
Totals		0	20	0	60	0	80	0	0	0	0	0	0	0	160	\$6,009.80	\$11,959.50	\$0.00	\$17,969.30

PR - Principal SPE - Senior Project Engineer DE - Design Engineer DR - Drafter RS - Registered Surveyor
 PM - Project Manager PE - Project Engineer ET - Eng. Technician CL - Clerical FP - Field Person

**SCHEDULE 5 - ESTIMATE OF COST
ALLOCATION BY TASK ACTIVITY (SUBCONSULTANT)**

Project Title: _____

CIP NO.: _____

TASK NO.	ACTIVITY	CH2M													Costs			TASK SUBTOTAL
		Staff Hours											TOTAL	Direct Labor	Indirect Labor	ODCs		
		PR	PM	SPE	PE	DE	ET	DR	CL	OM								
1.1	Collection System Master Planning													0	\$0.00	\$0.00		\$0.00
1.2	Collection System Improvements Investigations													0	\$0.00	\$0.00		\$0.00
1.3	Basis of Design													0	\$0.00	\$0.00		\$0.00
1.4	Program and Budget Support													0	\$0.00	\$0.00		\$0.00
1.5	Air Quality Sampling, Analysis & Modeling													0	\$0.00	\$0.00		\$0.00
1.6	Negotiation Assistance													0	\$0.00	\$0.00		\$0.00
1.7	DOSD Environmental Audit													0	\$0.00	\$0.00		\$0.00
1.8	CSSOMP													0	\$0.00	\$0.00		\$0.00
2.1	Capital Improvement Project Design Document Review													0	\$0.00	\$0.00		\$0.00
2.2	Value Engineering													0	\$0.00	\$0.00		\$0.00
2.3	Master Specification, Documents and Plans Update													0	\$0.00	\$0.00		\$0.00
2.4	Lift Station Condition Assessment													0	\$0.00	\$0.00		\$0.00
3.1	Bid Review Assistance													0	\$0.00	\$0.00		\$0.00
3.2	Construction Document Review													0	\$0.00	\$0.00		\$0.00
3.3	Construction Claims													0	\$0.00	\$0.00		\$0.00
3.4	Online O&M Updates and Training													0	\$0.00	\$0.00		\$0.00
4.1	DOSD Environmental Elements													0	\$0.00	\$0.00		\$0.00
4.2	Grant and Loan Assistance													0	\$0.00	\$0.00		\$0.00
4.3	Surveys													0	\$0.00	\$0.00		\$0.00
4.4	Easement Information													0	\$0.00	\$0.00		\$0.00
4.5	Soils and Geotechnical													0	\$0.00	\$0.00		\$0.00
4.6	Laboratory Analysis													0	\$0.00	\$0.00		\$0.00
4.7	Reports and Presentations													0	\$0.00	\$0.00		\$0.00
4.8	Economic Studies													0	\$0.00	\$0.00		\$0.00
4.9	SCREAM Programming			16										16	\$1,344.96	\$2,958.91		\$4,303.87
4.10	Electrical and I&C													0	\$0.00	\$0.00		\$0.00
4.11	Reliability Engineering													0	\$0.00	\$0.00		\$0.00
4.12	CMOM Continuation													0	\$0.00	\$0.00		\$0.00
4.13	Stormwater Federal Regulations													0	\$0.00	\$0.00		\$0.00
5	Project Management													0	\$0.00	\$0.00		\$0.00
														0	\$0.00	\$0.00		\$0.00
														0	\$0.00	\$0.00		\$0.00
														0	\$0.00	\$0.00		\$0.00
														0	\$0.00	\$0.00		\$0.00
														0	\$0.00	\$0.00		\$0.00
														0	\$0.00	\$0.00		\$0.00
														0	\$0.00	\$0.00		\$0.00
Totals		0	0	16	0	0	0	0	0	0	0	0	0	16	\$1,344.96	\$2,958.91	\$0.00	\$4,303.87

PR - Principal SPE - Senior Project Engineer DE - Design Engineer DR - Drafter RS - Registered Surveyor
 PM - Project Manager PE - Project Engineer ET - Eng. Technician CL - Clerical FP - Field Person

SCHEDULE 5 - ESTIMATE OF COST ALLOCATION BY TASK ACTIVITY (SUBCONSULTANT)

Project Title: _____
CIP NO.: _____

TASK NO.	ACTIVITY	T&M Associates																TASK SUBTOTAL	
		Staff Hours														Costs			
		PR	PM	SPE	PE	DE	ET	DR	CL	RS	FP			TOTAL	Direct Labor	Indirect Labor	ODCs		
1.1	Collection System Master Planning														0	\$0.00	\$0.00		\$0.00
1.2	Collection System Improvements Investigations														0	\$0.00	\$0.00		\$0.00
1.3	Basis of Design														0	\$0.00	\$0.00		\$0.00
1.4	Program and Budget Support														0	\$0.00	\$0.00		\$0.00
1.5	Air Quality Sampling, Analysis & Modeling														0	\$0.00	\$0.00		\$0.00
1.6	Negotiation Assistance														0	\$0.00	\$0.00		\$0.00
1.7	DOSD Environmental Audit														0	\$0.00	\$0.00		\$0.00
1.8	CSSOMP														0	\$0.00	\$0.00		\$0.00
2.1	Capital Improvement Project Design Document Review														0	\$0.00	\$0.00		\$0.00
2.2	Value Engineering														0	\$0.00	\$0.00		\$0.00
2.3	Master Specification, Documents and Plans Update		20												20	\$1,696.46	\$3,732.22		\$5,428.68
2.4	Lift Station Condition Assessment														0	\$0.00	\$0.00		\$0.00
3.1	Bid Review Assistance														0	\$0.00	\$0.00		\$0.00
3.2	Construction Document Review														0	\$0.00	\$0.00		\$0.00
3.3	Construction Claims														0	\$0.00	\$0.00		\$0.00
3.4	Online O&M Updates and Training														0	\$0.00	\$0.00		\$0.00
4.1	DOSD Environmental Elements														0	\$0.00	\$0.00		\$0.00
4.2	Grant and Loan Assistance														0	\$0.00	\$0.00		\$0.00
4.3	Surveys														0	\$0.00	\$0.00		\$0.00
4.4	Easement Information														0	\$0.00	\$0.00		\$0.00
4.5	Soils and Geotechnical														0	\$0.00	\$0.00		\$0.00
4.6	Laboratory Analysis														0	\$0.00	\$0.00		\$0.00
4.7	Reports and Presentations														0	\$0.00	\$0.00		\$0.00
4.8	Economic Studies														0	\$0.00	\$0.00		\$0.00
4.9	SCREAM Programming														0	\$0.00	\$0.00		\$0.00
4.10	Electrical and I&C														0	\$0.00	\$0.00		\$0.00
4.11	Reliability Engineering														0	\$0.00	\$0.00		\$0.00
4.12	CMOM Continuation														0	\$0.00	\$0.00		\$0.00
4.13	Stormwater Federal Regulations														0	\$0.00	\$0.00		\$0.00
5	Project Management														0	\$0.00	\$0.00		\$0.00
															0	\$0.00	\$0.00		\$0.00
															0	\$0.00	\$0.00		\$0.00
															0	\$0.00	\$0.00		\$0.00
															0	\$0.00	\$0.00		\$0.00
															0	\$0.00	\$0.00		\$0.00
															0	\$0.00	\$0.00		\$0.00
	Totals	20	0	0	0	0	0	0	0	0	0	0	0	0	20	\$1,696.46	\$3,732.22	\$0.00	\$5,428.68

PR - Principal SPE - Senior Project Engineer DE - Design Engineer DR - Drafter RS - Registered Surveyor
 PM - Project Manager PE - Project Engineer ET - Eng. Technician CL - Clerical FP - Field Person

**SCHEDULE 2A (1)
ENGINEERING COST SUMMARY**

1.	CITY COLUMBUS, OHIO DEPT. OF PUBLIC UTILITIES	2. CIP NO.: CT NO.:		3. VERSION:	
4.	NAME OF CONSULTANT: Hazen and Sawyer	5. PROJECT TITLE:			
6.	ADDRESS: 150 E Campus View Blvd #133 Columbus, OH 43235	7. TYPE OF CONTRACT: DIRECT HOURLY W/MULTIPLIER			
8.	DIRECT LABOR:	EST. HRS.	HOURLY RATE	SUBTOTAL	EXTENDED TOTAL
	Principal	12	\$86.00	\$1,032.00	
	Project Manager	20	\$77.00	\$1,540.00	
	Senior Project Engineer	386	\$68.00	\$26,248.00	
	Project Engineer	40	\$50.00	\$2,000.00	
	Design Engineer	0	\$44.00	\$0.00	
	Eng. Technician	247	\$36.50	\$9,015.50	
	Drafter	0	\$42.00	\$0.00	
	Clerical	10	\$34.00	\$340.00	
	DIRECT LABOR TOTAL:				\$40,175.50
9.	HOURLY COST MULTIPLIER (HCM)	Overhead Rate (OR)	Net fee (NF) or Profit		
		1.86	0.34		
	HCM (1+OR+NF)				3.20
10.	TOTAL LABOR COSTS				\$128,561.60
11.	OTHER DIRECT COSTS:	EST. COST			
	a. TRAVEL				
	MILEAGE: 3200 miles x \$0.54 / mile				\$100.53
	AIRFARE:				\$0.00
	a. TRAVEL SUBTOTAL:				\$100.53
	b. EQUIPMENT, MATERIALS, SUPPLIES (EMS)	EST. COST			
	(List itemized breakdown below or on Schedule 2A-2 Expenses)				\$0.00
					\$0.00
					\$0.00
	b. EMS SUBTOTAL:				\$0.00
	c. SUBCONTRACTS	EST. COST			
	Brown and Caldwell				\$54,528.00
	Coldwater Consulting				\$17,969.30
	Chester Engineers				\$0.00
	CH2M				\$4,303.87
	T&M Associates				\$5,428.68
	Dynotec				\$21,125.88
	Stantec				\$28,851.70
	c. SUB SUBTOTAL:				\$132,207.43
	d. OTHER (Specify categories)	EST. COST			
					\$0.00
					\$0.00
	d. OTHER SUBTOTAL:				\$0.00
	e. TOTAL OTHER DIRECT COSTS TOTAL (items a through d):				\$132,307.96
12.	TOTAL COST (item 10 + 11)				\$260,869.56
13.					
14.					

16.	CONTINGENCY (15%)	\$39,130.43
17.	MAXIMUM FEE (items 12 through 16)	\$300,000.00

**SCHEDULE 2A (1)
ENGINEERING COST SUMMARY**

1.	CITY COLUMBUS, OHIO DEPT. OF PUBLIC UTILITIES	2. CIP NO.: CT NO.:		3. VERSION:	
4.	NAME OF CONSULTANT: Brown and Caldwell	5. PROJECT TITLE:			
6.	ADDRESS: 4700 Lakehurst Court #100 Columbus, OH 43016	7. TYPE OF CONTRACT: DIRECT HOURLY W/MULTIPLIER			
8.	DIRECT LABOR:	EST. HRS.	HOURLY RATE	SUBTOTAL	EXTENDED TOTAL
	Principal	0	\$102.00	\$0.00	
	Project Manager	0	\$92.00	\$0.00	
	Senior Project Engineer	240	\$71.00	\$17,040.00	
	Project Engineer	0	\$57.00	\$0.00	
	Design Engineer	0	\$42.00	\$0.00	
	Eng. Technician	0	\$32.00	\$0.00	
	Drafter	0	\$34.00	\$0.00	
	Clerical	0	\$28.00	\$0.00	
	DIRECT LABOR TOTAL:				\$17,040.00
9.	HOURLY COST MULTIPLIER (HCM)	Overhead Rate (OR)	Net fee (NF) or Profit		
		1.90	0.30		
	HCM (1+OR+NF)				3.20
10.	TOTAL LABOR COSTS				\$54,528.00
11.	OTHER DIRECT COSTS:	EST. COST			
	a. TRAVEL				
	MILEAGE: # miles x \$ (IRS rate @ date of travel) / mile				\$0.00
	AIRFARE:				\$0.00
	a. TRAVEL SUBTOTAL:				\$0.00
	b. EQUIPMENT, MATERIALS, SUPPLIES (EMS)	EST. COST			
	(List itemized breakdown below or on Schedule 2A-2 Expenses)				\$0.00
					\$0.00
	b. EMS SUBTOTAL:				\$0.00
	c. SUBCONTRACTS	EST. COST			
					\$0.00
					\$0.00
					\$0.00
	c. SUB SUBTOTAL:				\$0.00
	d. OTHER (Specify categories)	EST. COST			
					\$0.00
					\$0.00
	d. OTHER SUBTOTAL:				\$0.00
	e. TOTAL OTHER DIRECT COSTS TOTAL (items a through d):				\$0.00
12.	TOTAL COST (item 10 + 11)				\$54,528.00
13.					\$0.00
14.					\$0.00
16.	CONTINGENCY (____%)				\$0.00
17.	MAXIMUM FEE (items 12 through 16)				\$54,528.00

**SCHEDULE 2A (1)
ENGINEERING COST SUMMARY**

1.	CITY COLUMBUS, OHIO DEPT. OF PUBLIC UTILITIES	2. CIP NO.: CT NO.:		3. VERSION:
4.	NAME OF CONSULTANT: Stantec	5. PROJECT TITLE:		
6.	ADDRESS:	7. TYPE OF CONTRACT: DIRECT HOURLY W/MULTIPLIER		
8.	DIRECT LABOR:	EST. HRS.	HOURLY RATE	EXTENDED TOTAL
	Principal (PR)	16	\$100.00	\$1,600.00
	Project Manager (PM)	0	\$88.00	\$0.00
	Deputy Project Manager (DPM)	34	\$100.00	\$3,400.00
	Technical Advisor (TA)	0	\$104.00	\$0.00
	Senior Project Engineer (SPE)	59	\$73.00	\$4,307.00
	Project Engineer (PE)	0	\$57.00	\$0.00
	Design Engineer (DE)	0	\$42.00	\$0.00
	Engineering Technician (ET)	0	\$37.00	\$0.00
	Drafter (DR)	0	\$32.00	\$0.00
	Clerical (CL)	0	\$26.00	\$0.00
	Project Controls (PJC)	0	\$57.00	\$0.00
	Accounting (A)	0	\$27.00	\$0.00
	Registered Surveyor (RS)	0	\$47.00	\$0.00
	Survey Crew (CREW)	0	\$62.00	\$0.00
	Project Scientist (PS)	0	\$42.00	\$0.00
	Scientist (S)	0	\$37.00	\$0.00
	DIRECT LABOR TOTAL:			\$9,307.00
9.	HOURLY COST MULTIPLIER (HCM)	Overhead Rate (OR)	Net fee (NF) or Profit	
		1.90	0.20	
	HCM (1+OR+NF)			3.10
10.	TOTAL LABOR COSTS			\$28,851.70
11.	OTHER DIRECT COSTS:	EST. COST		
	a. TRAVEL			
	MILEAGE: # miles x \$ (IRS rate @ date of travel) / mile	\$0.00		
	AIRFARE:	\$0.00		
	a. TRAVEL SUBTOTAL:	\$0.00		
	b. EQUIPMENT, MATERIALS, SUPPLIES (EMS)	EST. COST		
	(List itemized breakdown below or on Schedule 2A-2 Expenses)	\$0.00		
		\$0.00		
	b. EMS SUBTOTAL:	\$0.00		
	c. SUBCONTRACTS	EST. COST		
		\$0.00		
		\$0.00		
		\$0.00		
	c. SUB SUBTOTAL:	\$0.00		
	d. OTHER (Specify categories)	EST. COST		
		\$0.00		
		\$0.00		

	d. OTHER SUBTOTAL:	\$0.00
	e. TOTAL OTHER DIRECT COSTS TOTAL (items a through d):	\$0.00
12.	TOTAL COST (item 10 + 11)	\$28,851.70
13.		\$0.00
14.		\$0.00
16.	CONTINGENCY (____%)	\$0.00
17.	MAXIMUM FEE (items 12 through 16)	\$28,851.70

**SCHEDULE 2A (1)
ENGINEERING COST SUMMARY**

1.	CITY COLUMBUS, OHIO DEPT. OF PUBLIC UTILITIES	2. CIP NO.: CT NO.:		3. VERSION:	
4.	NAME OF CONSULTANT: Coldwater Consulting	5. PROJECT TITLE:			
6.	ADDRESS: 77 S 18th Street Columbus, OH 43205	7. TYPE OF CONTRACT: DIRECT HOURLY W/MULTIPLIER			
8.	DIRECT LABOR:	EST. HRS.	HOURLY RATE	SUBTOTAL	EXTENDED TOTAL
	Principal	0	\$70.67	\$0.00	
	Project Manager	20	\$64.90	\$1,298.00	
	Senior Project Engineer	0	\$57.05	\$0.00	
	Project Engineer	60	\$48.61	\$2,916.60	
	Design Engineer	0	\$31.49	\$0.00	
	Eng. Technician	80	\$22.44	\$1,795.20	
	Drafter	0	\$33.65	\$0.00	
	Clerical	0	\$20.80	\$0.00	
	DIRECT LABOR TOTAL:				\$6,009.80
9.	HOURLY COST MULTIPLIER (HCM)	Overhead Rate (OR)	Net fee (NF) or Profit		
		1.80	0.19		
	HCM (1+OR+NF)				2.99
10.	TOTAL LABOR COSTS				\$17,969.30
11.	OTHER DIRECT COSTS:	EST. COST			
	a. TRAVEL				
	MILEAGE: 100 miles x \$0.54 / mile				\$0.00
	AIRFARE:				\$0.00
	a. TRAVEL SUBTOTAL:			\$0.00	
	b. EQUIPMENT, MATERIALS, SUPPLIES (EMS)	EST. COST			
	(List itemized breakdown below or on Schedule 2A-2 Expenses)				\$0.00
					\$0.00
					\$0.00
	b. EMS SUBTOTAL:			\$0.00	
	c. SUBCONTRACTS	EST. COST			
					\$0.00
					\$0.00
					\$0.00
					\$0.00
	c. SUB SUBTOTAL:			\$0.00	
	d. OTHER (Specify categories)	EST. COST			
					\$0.00
					\$0.00
	d. OTHER SUBTOTAL:			\$0.00	
	e. TOTAL OTHER DIRECT COSTS TOTAL (items a through d):				\$0.00
12.	TOTAL COST (item 10 + 11)				\$17,969.30
13.					\$0.00
14.					\$0.00
16.	CONTINGENCY (____%)				\$0.00
17.	MAXIMUM FEE (items 12 through 16)				\$17,969.30

**SCHEDULE 2A (1)
ENGINEERING COST SUMMARY**

1.	CITY COLUMBUS, OHIO DEPT. OF PUBLIC UTILITIES	2. CIP NO.: CT NO.:		3. VERSION:	
4.	NAME OF CONSULTANT: CH2M	5. PROJECT TITLE:			
6.	ADDRESS:	7. TYPE OF CONTRACT: DIRECT HOURLY W/MULTIPLIER			
8.	DIRECT LABOR:	EST. HRS.	HOURLY RATE	SUBTOTAL	EXTENDED TOTAL
	Principal	0	\$96.20	\$0.00	
	Project Manager	0	\$82.30	\$0.00	
	Senior Project Engineer	16	\$84.06	\$1,344.96	
	Project Engineer	0	\$56.10	\$0.00	
	Design Engineer	0	\$42.50	\$0.00	
	Eng. Technician	0	\$47.80	\$0.00	
	Drafter	0	\$35.20	\$0.00	
	Clerical	0	\$28.66	\$0.00	
	Senior O&M Specialist	0	\$94.23	\$0.00	
	DIRECT LABOR TOTAL:				\$1,344.96
9.	HOURLY COST MULTIPLIER (HCM)	Overhead Rate (OR)	Net fee (NF) or Profit		
		1.90	0.30		
	HCM (1+OR+NF)				3.20
10.	TOTAL LABOR COSTS				\$4,303.87
11.	OTHER DIRECT COSTS:	EST. COST			
	a. TRAVEL				
	MILEAGE: # miles x \$ (IRS rate @ date of travel) / mile				\$0.00
	AIRFARE:				\$0.00
	a. TRAVEL SUBTOTAL:				\$0.00
	b. EQUIPMENT, MATERIALS, SUPPLIES (EMS)	EST. COST			
	(List itemized breakdown below or on Schedule 2A-2 Expenses)				\$0.00
					\$0.00
					\$0.00
	b. EMS SUBTOTAL:				\$0.00
	c. SUBCONTRACTS	EST. COST			
					\$0.00
					\$0.00
					\$0.00
	c. SUB SUBTOTAL:				\$0.00
	d. OTHER (Specify categories)	EST. COST			
					\$0.00
					\$0.00
	d. OTHER SUBTOTAL:				\$0.00
	e. TOTAL OTHER DIRECT COSTS TOTAL (items a through d):				\$0.00
12.	TOTAL COST (item 10 + 11)				\$4,303.87
13.					\$0.00
14.					\$0.00
16.	CONTINGENCY (____%)				\$0.00
17.	MAXIMUM FEE (items 12 through 16)				\$4,303.87

**SCHEDULE 2A (1)
ENGINEERING COST SUMMARY**

1.	CITY COLUMBUS, OHIO DEPT. OF PUBLIC UTILITIES	2. CIP NO.: CT NO.:		3. VERSION:	
4.	NAME OF CONSULTANT: Chester Engineers	5. PROJECT TITLE:			
6.	ADDRESS: 88 E Broad Street #1980 Columbus, OH 43215	7. TYPE OF CONTRACT: DIRECT HOURLY W/MULTIPLIER			
8.	DIRECT LABOR:	EST. HRS.	HOURLY RATE	SUBTOTAL	EXTENDED TOTAL
	Principal	0	\$85.00	\$0.00	
	Project Manager	0	\$65.00	\$0.00	
	Project Engineer	0	\$60.00	\$0.00	
	Design Engineer	0	\$45.00	\$0.00	
	Eng. Technician	0	\$40.00	\$0.00	
	Drafter	0	\$35.00	\$0.00	
	Clerical	0	\$30.00	\$0.00	
	DIRECT LABOR TOTAL:				\$0.00
9.	HOURLY COST MULTIPLIER (HCM)	Overhead Rate (OR)	Net fee (NF) or Profit		
		1.75	0.275		
	HCM (1+OR+NF)				3.025
10.	TOTAL LABOR COSTS				\$0.00
11.	OTHER DIRECT COSTS:	EST. COST			
	a. TRAVEL				
	MILEAGE: # miles x \$ (IRS rate @ date of travel) / mile				\$0.00
	AIRFARE:				\$0.00
	a. TRAVEL SUBTOTAL:				\$0.00
	b. EQUIPMENT, MATERIALS, SUPPLIES (EMS)	EST. COST			
	(List itemized breakdown below or on Schedule 2A-2 Expenses)				\$0.00
					\$0.00
					\$0.00
	b. EMS SUBTOTAL:				\$0.00
	c. SUBCONTRACTS	EST. COST			
					\$0.00
					\$0.00
					\$0.00
					\$0.00
	c. SUB SUBTOTAL:				\$0.00
	d. OTHER (Specify categories)	EST. COST			
					\$0.00
					\$0.00
	d. OTHER SUBTOTAL:				\$0.00
	e. TOTAL OTHER DIRECT COSTS TOTAL (items a through d):				\$0.00
12.	TOTAL COST (item 10 + 11)				\$0.00
13.					\$0.00
14.					\$0.00
16.	CONTINGENCY (____%)				\$0.00
17.	MAXIMUM FEE (items 12 through 16)				\$0.00

**SCHEDULE 2A (1)
ENGINEERING COST SUMMARY**

1.	CITY COLUMBUS, OHIO DEPT. OF PUBLIC UTILITIES	2. CIP NO.: CT NO.:	650870-100704	3. VERSION:	
4.	NAME OF CONSULTANT: Brown and Caldwell	5. PROJECT TITLE:	Artane/Parkwood Blueprint Linden Project		
6.	ADDRESS: 4700 Lakehurst Court #100 Columbus, OH 43016	7. TYPE OF CONTRACT: DIRECT HOURLY W/MULTIPLIER			
8.	DIRECT LABOR:	EST. HRS.	HOURLY RATE	SUBTOTAL	EXTENDED TOTAL
	Vice President	20	\$84.82	\$1,696.46	
	Senior Associate	0	\$73.59	\$0.00	
	Associate	0	\$66.79	\$0.00	
	Senior Principal Engineer	0	\$58.08	\$0.00	
	Principal Engineer	0	\$38.93	\$0.00	
	Assistant Engineer	0	\$32.03	\$0.00	
	Senior Principal Designer	0	\$58.08	\$0.00	
	Principal Designer	0	\$38.93	\$0.00	
	Senior Designer	0	\$32.03	\$0.00	
	Administrative Assistant	0	\$26.74	\$0.00	
	DIRECT LABOR TOTAL:				\$1,696.46
9.	HOURLY COST MULTIPLIER (HCM)	Overhead Rate (OR)	Net fee (NF) or Profit		
		1.90	0.30		
	HCM (1+OR+NF)				3.20
10.	TOTAL LABOR COSTS				\$5,428.68
11.	OTHER DIRECT COSTS:	EST. COST			
	a. TRAVEL				
	MILEAGE: # miles x \$ (IRS rate @ date of travel) / mile				\$0.00
	AIRFARE:				\$0.00
	a. TRAVEL SUBTOTAL:				\$0.00
	b. EQUIPMENT, MATERIALS, SUPPLIES (EMS)	EST. COST			
	(List itemized breakdown below or on Schedule 2A-2 Expenses)				\$0.00
					\$0.00
					\$0.00
	b. EMS SUBTOTAL:				\$0.00
	c. SUBCONTRACTS	EST. COST			
					\$0.00
					\$0.00
					\$0.00
	c. SUB SUBTOTAL:				\$0.00
	d. OTHER (Specify categories)	EST. COST			
					\$0.00
					\$0.00
	d. OTHER SUBTOTAL:				\$0.00
	e. TOTAL OTHER DIRECT COSTS TOTAL (items a through d):				\$0.00
12.	TOTAL COST (item 10 + 11)				\$5,428.68
13.					\$0.00
14.					\$0.00
16.	CONTINGENCY (____%)				\$0.00

17. MAXIMUM FEE (items 12 through 16)	\$5,428.68
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**SCHEDULE 2A (1)
ENGINEERING COST SUMMARY**

1.	CITY COLUMBUS, OHIO DEPT. OF PUBLIC UTILITIES	2. CIP NO.: CT NO.:	650870-100704	3. VERSION:	
4.	NAME OF CONSULTANT: Brown and Caldwell	5. PROJECT TITLE:	Artane/Parkwood Blueprint Linden Project		
6.	ADDRESS: 4700 Lakehurst Court #100 Columbus, OH 43016	7. TYPE OF CONTRACT: DIRECT HOURLY W/MULTIPLIER			
8.	DIRECT LABOR:	EST. HRS.	HOURLY RATE	SUBTOTAL	EXTENDED TOTAL
	Principal	0	\$106.03	\$0.00	
	Project Manager	0	\$64.42	\$0.00	
	Senior Project Engineer	0		\$0.00	
	Project Engineer	120	\$56.43	\$6,771.11	
	Design Engineer	0	\$47.05	\$0.00	
	Eng. Technician	0	\$39.21	\$0.00	
	Drafter	0	\$37.04	\$0.00	
	Clerical	0	\$28.24	\$0.00	
	DIRECT LABOR TOTAL:				\$6,771.11
9.	HOURLY COST MULTIPLIER (HCM)	Overhead Rate (OR)	Net fee (NF) or Profit		
		1.90	0.22		
	HCM (1+OR+NF)				3.12
10.	TOTAL LABOR COSTS				\$21,125.88
11.	OTHER DIRECT COSTS:	EST. COST			
	a. TRAVEL				
	MILEAGE: # miles x \$ (IRS rate @ date of travel) / mile				\$0.00
	AIRFARE:				\$0.00
	a. TRAVEL SUBTOTAL:				\$0.00
	b. EQUIPMENT, MATERIALS, SUPPLIES (EMS)	EST. COST			
	(List itemized breakdown below or on Schedule 2A-2 Expenses)				\$0.00
					\$0.00
	b. EMS SUBTOTAL:				\$0.00
	c. SUBCONTRACTS	EST. COST			
					\$0.00
					\$0.00
					\$0.00
	c. SUB SUBTOTAL:				\$0.00
	d. OTHER (Specify categories)	EST. COST			
					\$0.00
					\$0.00
	d. OTHER SUBTOTAL:				\$0.00
	e. TOTAL OTHER DIRECT COSTS TOTAL (items a through d):				\$0.00
12.	TOTAL COST (item 10 + 11)				\$21,125.88
13.					\$0.00
14.					\$0.00
16.	CONTINGENCY (____%)				\$0.00
17.	MAXIMUM FEE (items 12 through 16)				\$21,125.88

SCHEDULE 2B
MAXIMUM LABOR RATES
2016 - 2018
SSES OEC

	Position Description	Max Hourly Rate 2017	Max Hourly Rate 2018	Max Hourly Rate 2019
Hazen and Sawyer	Principal	\$86.00	\$90.00	\$93.00
3.2	Project Manager	\$77.00	\$80.00	\$83.00
	Senior Project Engineer	\$68.00	\$71.00	\$74.00
	Project Engineer	\$50.00	\$52.00	\$54.00
	Design Engineer	\$44.00	\$46.00	\$48.00
	Eng. Technician	\$36.50	\$38.00	\$39.50
	Drafter	\$42.00	\$44.00	\$46.00
	Clerical	\$34.00	\$36.00	\$38.00
Brown and Caldwell	Principal	\$102.00	\$105.06	\$108.21
3.2	Project Manager	\$92.00	\$94.76	\$97.60
	Senior Project Engineer	\$71.00	\$73.13	\$75.32
	Project Engineer	\$57.00	\$58.71	\$60.47
	Design Engineer	\$42.00	\$43.26	\$44.56
	Eng. Technician	\$32.00	\$32.96	\$33.95
	Drafter	\$34.00	\$35.02	\$36.07
	Clerical	\$28.00	\$28.84	\$29.71
Coldwater Consulting	Principal	\$70.67	\$74.20	\$77.91
2.99	Project Manager	\$64.90	\$68.15	\$71.55
	Senior Project Engineer	\$57.05	\$59.90	\$62.90
	Project Engineer	\$48.61	\$51.04	\$53.59
	Design Engineer	\$31.49	\$33.06	\$34.72
	Eng. Technician	\$22.44	\$23.56	\$24.74
	Drafter	\$33.65	\$35.33	\$37.10
	Clerical	\$20.80	\$21.84	\$22.93
Chester Engineers	Principal	\$85.00	\$88.40	\$91.94
3.025	Project Manager	\$65.00	\$67.60	\$70.30
	Senior Project Engineer	\$60.00	\$62.40	\$64.90
	Project Engineer	\$45.00	\$46.80	\$48.67
	Design Engineer	\$40.00	\$41.60	\$43.26
	Eng. Technician	\$35.00	\$36.40	\$37.86
	Drafter	\$30.00	\$31.20	\$32.45
	Clerical	\$25.00	\$26.00	\$27.04
Stantec	Principal (PR)	\$100.00	\$100.00	\$100.00
3.1	Project Manager (PM)	\$88.00	\$91.00	\$94.00
	Deputy Project Manager (DPM)	\$100.00	\$100.00	\$100.00
	Technical Advisor (TA)	\$104.00	\$108.00	\$111.00
	Senior Project Engineer (SPE)	\$73.00	\$75.00	\$78.00
	Project Engineer (PE)	\$57.00	\$59.00	\$61.00
	Design Engineer (DE)	\$42.00	\$43.00	\$45.00
	Engineering Technician (ET)	\$37.00	\$38.00	\$39.00
	Drafter (DR)	\$32.00	\$33.00	\$34.00
	Clerical (CL)	\$26.00	\$27.00	\$28.00
	Project Controls (PJC)	\$57.00	\$59.00	\$61.00
	Accounting (A)	\$27.00	\$28.00	\$29.00
	Registered Surveyor (RS)	\$47.00	\$49.00	\$50.00
	Survey Crew (CREW)	\$62.00	\$64.00	\$66.00
	Project Scientist (PS)	\$42.00	\$43.00	\$45.00
	Scientist (S)	\$37.00	\$38.00	\$39.00

**SCHEDULE 2A-2
EXPENSES
ARTANE/PARKWOOD BLUEPRINT LINDEN PROJECT
CIP NO. 650870-100704, CONTRACT No. EL016133**

Number	Item	Description						Total
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								

Sewer Collection System OEC

Task						Scope Description
		Large Effort	Small Effort	Immediate Need	Coordination with TE	
1.1	Collection System Master Planning					
1.2	Collection System Improvements Investigations					
1.3	Basis of Design					
1.4	Program and Budget Support	X	X			Blueprint assistance: Design Lessons Learned TM, Private Property SOP, Implementation Team assistance, Blueprint project costs (design budgets, unit cost updates from bid), Create standard bid form
1.5	Air Quality Sampling, Analysis & Modeling					
1.6	Negotiation Assistance					
1.7	DOSD Environmental Audit					
1.8	CSSOMP					
2.1	Capital Improvement Project Design Document Review					
2.2	Value Engineering					
2.3	Master Specification, Documents and Plans Update					
2.4	Lift Station Condition Assessment		X	X		Forcemain condition assessment TM - recommended procedures and contractors
3.1	Bid Review Assistance					
3.2	Construction Document Review					
3.3	Construction Claims					
3.4	Online O&M Updates and Training					
4	General and Additional		X			Contingency funds (15%)
4.1	DOSD Environmental Elements					
4.2	Grant and Loan Assistance					
4.3	Surveys					
4.4	Easement Information					
4.5	Soils and Geotechnical					
4.6	Laboratory Analysis					
4.7	Reports and Presentations		X	X		Assistance, as requested (tunnel presentation, Blueprint lessons learned presentation)
4.8	Economic Studies					
4.9	Electrical and I&C					
4.10	SCREAM Programming					
4.11	Reliability Engineering					
4.12	CMOM Continuation		X			Monthly sustainability plan implementation assistance, CMOM intro presentation/training for staff Culvert Inspection TM (including field utilized forms and available training programs) Initial investigations into the stormwater program plan utilizing existing GIS files containing criticality data
4.13	Stormwater Federal Regulations					
5	Project Management		X			Project Management including monthly meetings and quarterly TE OEC meetings