SCHEDULE 2A-1 SUBCONTRACTOR WORK IDENTIFICATION

Project Name: Sewer Collection System-	Overall Engine	eering 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	d Sawver	Ordinance #: 0524-2018				Contract Duration: 12 months	
Time contractor, constituint fuzer und	a sawyer	Contractor and Subcontractor	CCCN, Scope, an	d Funding S	ummary		
Name / Address	Prime or Sub	Contact Information	C.C.# / Expires	DAX Vendor #	Firm Type	Contract or Mod Scope	Contract or Mod Amount & %
Hazen and Sawyer	Prime	Kathleen Smith	13-2904652		MAJ	Project Management	\$167,676.9
150 E. Campus View Blvd.			3/14/2018			Regulatory Assistance	55.9%
Columbus, Ohio 43235						Engineering	
Brown and Caldwell	Sub	Steve Donovan	94-1446346		MAJ	CMOM	\$ 54,528.00
4700 Lakehurst Court, Suite 100			8/26/2017			Condition Assessments	18.2%
Columbus, Ohio 43016							
Coldwater Consulting, LLC	Sub	Kristen Risch	27-3377013		FBE	Grant and Loan	\$ 17,969.30
77 S 18th Street		Tristen reisen	4/30/2017		TDE	Green Infrastructure Expertise	6.0%
Columbus, OH 43205			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Hatch	Sub	Roger Harris	20-2401674		MAJ	CSSOMP	-
88 East Broad St, Suite 1980		Troger Turris	5/18/2017		1,111	Electrical Assistance	0.0%
Columbus, OH 43215							
Stantec	Sub	Elie Sabbagh	11-2167170		MAJ	Program Support	\$ 28,851.70
1500 Lake Shore Drive, Suite 100		3	9/10/2017			Engineering Assistance	9.6%
Columbus, Ohio 43204						Design and Construction	
CH2M	Sub	Mark Pochodylo	32-0100027		MAJ	SCREAM Assistance	\$ 4,303.87
Two Easton Oval, Suite 500		,	12/2/2016			Reliability Engineering	1.4%
Columbus, Ohio 43219							
T&M	Sub	Donald Pinto	22-1806708		MAJ	Air Regulatory Services	\$ 5,428.68
4675 Lakehurst Court			9/12/2018			Environmental Auditing	1.89
Columbus, Ohio 43016							
Dynotec	Sub	Tobias Iloka	31-1319961		MAJ	WAM Data Entry	\$ 21,125.88
2931 E Dublin-Granville Rd, Suite 200			4/30/2017				7.09
Columbus, Ohio 43231							
						TOTAL CONTRACT or Mod	
		Approved:				AMOUNT	\$299,884.3
DPU Fiscal Revised 8/9/2016		Date:				Total Percentage	100.09

		Total	Hazen	ВС	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
		1380	715	240	109

Coldwater C	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	
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	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	
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	0	0	
160	16			120	
1 100	10	١	20	120	

SCHEDULE 4 - ESTIMATE OF COST ALLOCATION BY TASK ACTIVITY (PRIME)

Project Title:	
CIP NO.:	

		Hazen and Sawyer SUB CONCONTRACT COSTS																		
TASK NO.	ACTIVITY						S	taff Ho	urs							Costs		20B CONCON	IIRACI COSIS	TASK SUBTOTAL
		PR	PM	SPE	PE	DE	ET	DR	CL	RS	FP			TOTAL	Direct Labor	Indirect Labor	ODCs	Fee	ODCs	JOODIOTAL
1.1	Collection System Master Planning	4		80	20		100							204	\$10,434.00	\$22,954.80		\$14,083.92	\$0.00	\$47,472.72
1.2	Collection System Improvements Investigations													0	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
1.3	Basis of Design													0	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
1.4	Program and Budget Support	4		160	20		147							331	\$17,589.50	\$38,696.90		\$29,971.26	\$0.00	\$86,257.66
1.5	Air Quality Sampling, Analysis & Modeling													0	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
1.6	Negotiation Assistance													0	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
1.7	DOSD Environmental Audit													0	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
1.8	CSSOMP													0	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
2.1	Capital Improvement Project Design Document Review													0	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
2.2	Value Engineering													0	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
2.3	Master Specification, Documents and Plans Update		20											20	\$1,540.00	\$3,388.00		\$29,320.38	\$0.00	\$34,248.38
2.4	Lift Station Condition Assessment													0	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
3.1	Bid Review Assistance													0	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
3.2	Construction Document Review													0	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
3.3	Construction Claims													0	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
3.4	Online O&M Updates and Training													0	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
4.1	DOSD Environmental Elements													0	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
4.2	Grant and Loan Assistance													0	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
4.3	Surveys													0	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
4.4	Easement Information													0	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
4.5	Soils and Geotechnical													0	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
4.6	Laboratory Analysis													0	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
4.7	Reports and Presentations													0	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
4.8	Economic Studies													0	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
4.9	SCREAM Programming													0	\$0.00	\$0.00		\$4,303.87	\$0.00	\$4,303.87
4.10	Electrical and I&C													0	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
4.11	Reliability Engineering													0	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
4.12	CMOM Continuation			30										30	\$2,040.00	\$4,488.00		\$54,528.00	\$0.00	\$61,056.00
4.13	Stormwater Federal Regulations													0	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
5	Project Management	4		116					10					130	\$8,572.00	\$18,858.40		\$0.00	\$0.00	\$27,430.40
														0	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
														0	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
														0	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
														0	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
														0	\$0.00	\$0.00		\$0.00	\$0.00	
														0	\$0.00			\$0.00	•	1
	Totals	12	20	386	40	0	247	0	10	0	0	0	0	715	\$40,175.50		\$0.00			

FP - Field Person

DE - Design Engineer PR - Principal SPE - Senior Project Engineer DR - Drafter RS - Registered Surveyor ET - Eng. Technician PM - Project Manager PE - Project Engineer CL - Clerical \$299,884.39

Project Title:	_
CIP NO.:	

		Brown and Caldwell																
TASK NO.	ACTIVITY						S	Staff Ho	urs							Costs		TASK SUBTOTAL
1,0,		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
	<u> </u>													0	\$0.00	\$0.00		\$0.00
	<u> </u>													0	\$0.00	\$0.00		\$0.00
	<u> </u>													0	\$0.00	\$0.00		\$0.00
	<u> </u>													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	240	\$17,040.00	\$37,488.00	\$0.00	\$54,528.00

PR - Principal SPE - Senior Project Engineer
PM - Project Manager PE - Project Engineer

DE - Design Engineer ET - Eng. Technician DR - Drafter CL - Clerical RS - Registered Surveyor

Project Title:			
CIP NO.:			

														Stante	c									
TASK NO.	ACTIVITY									S	taff Ho	ours										Costs		TASK SUBTOTAL
		PR	PM	SPE	PE	DE	ET	DR	CL	RS	ST	SC2	ES	HG	G	D	DH	DC	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	16																		16	\$1,600.00	\$3,360.00		\$4,960.00
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			34		59														93	\$7,707.00	\$16,184.70		\$23,891.70
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	\$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	16	0	34	0	59	0	0	0	0	0	0	0	0	0	0	0	0	0	109	\$9,307.00	\$19,544.70	\$0.00	

PR - Principal SPE - Senior Project Engineer
PM - Project Manager PE - Project Engineer

DE - Design Engineer ET - Eng. Technician DR - Drafter CL - Clerical RS - Registered Surveyor

Project Title:	_
CIP NO.:	

NO. ACTIVITY PR PM SPE PE DE ET DR CL RS FP TOTAL Direct Labor Indirect Labor ODCs											Coldwa	ater Co	nsulting	g					
Collection System Missis Planning		ACTIVITY						S	taff Ho	urs							Costs		TASK SUBTOTAL
1.2 Collection System Improvements Investigations			PR	PM	SPE	PE	DE	ET	DR	CL	RS	FP			TOTAL	Direct Labor	Indirect Labor	ODCs	
1.3 Nation of Design	1.1	Collection System Master Planning													0	\$0.00	\$0.00	\$0.00	\$0.00
1-1 Properm and Balged Support 100 \$6,000-80 \$11,989,60 \$1 \$10 \$50,000 \$10,000	1.2	Collection System Improvements Investigations													0	\$0.00	\$0.00		\$0.00
1.5 Ar Quality Sampling, Analysis & Modeling	1.3	Basis of Design													0	\$0.00	\$0.00		\$0.00
1.5 Negotiation Assistance	1.4	Program and Budget Support		20		60		80							160	\$6,009.80	\$11,959.50		\$17,969.30
1.5 DOSD Environmental Audit	1.5	Air Quality Sampling, Analysis & Modeling													0	\$0.00	\$0.00		\$0.00
1.	1.6	Negotiation Assistance													0	\$0.00	\$0.00		\$0.00
2.1 Capital Improvement Project Design Document Review	1.7	DOSD Environmental Audit													0	\$0.00	\$0.00		\$0.00
2.2 Value Engineering	1.8	CSSOMP													0	\$0.00	\$0.00		\$0.00
2.3 Master Specification, Documents and Plans Update	2.1	Capital Improvement Project Design Document Review													0	\$0.00	\$0.00		\$0.00
2-4 Lif Station Condition Assessment	2.2	Value Engineering													0	\$0.00	\$0.00		\$0.00
3.1 Bid Review Assistance	2.3	Master Specification, Documents and Plans Update													0	\$0.00	\$0.00		\$0.00
3.2 Construction Document Review 0 \$0.00 \$0.	2.4	Lift Station Condition Assessment													0	\$0.00	\$0.00		\$0.00
3.3 Construction Claims	3.1	Bid Review Assistance													0	\$0.00	\$0.00		\$0.00
3.4 Online O&M Updates and Training	3.2	Construction Document Review													0	\$0.00	\$0.00		\$0.00
4.1 DOSD Environmental Elements	3.3	Construction Claims													0	\$0.00	\$0.00		\$0.00
4.2 Grant and Loan Assistance	3.4	Online O&M Updates and Training													0	\$0.00	\$0.00		\$0.00
Surveys 0 \$0.0	4.1	DOSD Environmental Elements													0	\$0.00	\$0.00		\$0.00
4.4 Easement Information	4.2	Grant and Loan Assistance													0	\$0.00	\$0.00		\$0.00
4.5 Soils and Geotechnical	4.3	Surveys													0	\$0.00	\$0.00		\$0.00
4.6 Laboratory Analysis	4.4	Easement Information													0	\$0.00	\$0.00		\$0.00
4.7 Reports and Presentations	4.5	Soils and Geotechnical													0	\$0.00	\$0.00		\$0.00
4.8 Economic Studies	4.6	Laboratory Analysis													0	\$0.00	\$0.00		\$0.00
4.9 SCREAM Programming	4.7	Reports and Presentations													0	\$0.00	\$0.00		\$0.00
4.10 Electrical and I&C	4.8	Economic Studies													0	\$0.00	\$0.00		\$0.00
A.11 Reliability Engineering	4.9	SCREAM Programming													0	\$0.00	\$0.00		\$0.00
4.12 CMOM Continuation 0 \$0.00	4.10	Electrical and I&C													0	\$0.00	\$0.00		\$0.00
4.13 Stormwater Federal Regulations 0 \$0.00	4.11	Reliability Engineering													0	\$0.00	\$0.00		\$0.00
5 Project Management 0 \$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
0 \$0.00 \$0.00 \$0.00 0 \$0.00 \$0.00 \$0.00 0 \$0.00 \$0.00	5	Project Management													0	\$0.00	\$0.00		\$0.00
0 \$0.00 \$0.00 0 \$0.00 \$0.00															0	\$0.00	\$0.00		\$0.00
0 \$0.00 \$0.00 0 \$0.00 \$0.00															0	\$0.00			\$0.00
0 \$0.00 \$0.00															0	\$0.00	\$0.00		\$0.00
															0				\$0.00
															0				\$0.00
0 \$0.00															0				\$0.00
		Totals	0	20	0	60	0	80	0	0	0	0	0	0	160			\$0.00	

PR - Principal SPE - Senior Project Engineer
PM - Project Manager PE - Project Engineer

DE - Design Engineer ET - Eng. Technician DR - Drafter CL - Clerical RS - Registered Surveyor

Project Title:	_
CIP NO.:	

											CH2M	ſ						
TASK NO.	ACTIVITY						S	Staff Ho	urs							Costs	TASK SUBTOTAL	
		PR	PM	SPE	PE	DE	ET	DR	CL	OM				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			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
	<u> </u>													0	\$0.00	\$0.00		\$0.00
	<u> </u>													0	\$0.00	\$0.00		\$0.00
	<u> </u>													0	\$0.00	\$0.00		\$0.00
	<u> </u>													0	\$0.00	\$0.00		\$0.00
	<u> </u>													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	

PR - Principal SPE - Senior Project Engineer PM - Project Manager PE - Project Engineer

DE - Design Engineer ET - Eng. Technician

DR - Drafter CL - Clerical RS - Registered Surveyor

Project Title:	_
CIP NO.:	

		Chester Engineers																
TASK NO.	ACTIVITY						S	taff Ho	urs							Costs		TASK SUBTOTAL
1,0,		PR	PM	SPE	PE	DE	ET	DR	CL	RS	FP		TO	TAL	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													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	\$0.00			\$0.00
														0	\$0.00			\$0.00
														0	\$0.00			\$0.00
														0	\$0.00			\$0.00
	Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0.00			

PR - Principal SPE - Senior Project Engineer
PM - Project Manager PE - Project Engineer

DE - Design Engineer ET - Eng. Technician DR - Drafter CL - Clerical RS - Registered Surveyor

Project Title:	_
CIP NO.:	

		T&M Associates															
TASK NO.	ACTIVITY						S	Staff Ho	urs						Costs		TASK SUBTOTAL
		PR	PM	SPE	PE	DE	ET	DR	CL	RS	FP		TOTA	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												\$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	DB Droft	0	0	0 DS Pagist	0	0	0	0 20	\$1,696.46	\$3,732.22	\$0.00	\$5,428.68

PR - Principal SPE - Senior Project Engineer
PM - Project Manager PE - Project Engineer

DE - Design Engineer ET - Eng. Technician DR - Drafter CL - Clerical RS - Registered Surveyor

Project Title:	_
CIP NO.:	

		Dynotec																
TASK NO.	ACTIVITY						S	Staff Ho	urs							Costs		TASK SUBTOTAL
		PR	PM	SPE	PE	DE	ET	DR	CL	RS	FP		,	TOTAL	Direct Labor	Indirect Labor	ODCs	
1.1	Collection System Master Planning				80									80	\$4,514.08	\$9,569.84		\$14,083.92
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				40									40	\$2,257.04	\$4,784.92		\$7,041.96
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
	Totals	0	0	0	120	0	0	0	0	0	0	0	0	120	\$6,771.11	\$14,354.76	\$0.00	\$21,125.88

PR - Principal SPE - Senior Project Engineer
PM - Project Manager PE - Project Engineer

DE - Design Engineer ET - Eng. Technician DR - Drafter CL - Clerical RS - Registered Surveyor

	ENCI	SCHEDULE	E 2A (1) ST SUMMAR	V	
1.	CITY COLUMBUS, OHIO	NEERING CO	2. CIP NO.:	<u> </u>	3. VERSION:
4	DEPT. OF PUBLIC UTILITIES NAME OF CONSULTANT:	5. PROJECT	CT NO.:		
4.	Hazen and Sawyer	5. PROJECT			
6	ADDRESS:	7. TYPE OF CO	ONTD A CT.		
6.	ADDRESS: 150 E Campus View Blvd #133	7. TYPE OF CO		RLY W/MULTIPLIER	
	Columbus, OH 43235		DIRECT HOC	KLI W/MULIII LIEK	
	Columbus, Off 43233		HOURLY		EXTENDED
8.	DIRECT LABOR:	EST. HRS.	RATE	SUBTOTAL	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	The state of the s	
	Eng. Technician	247	\$36.50		
	Drafter	0	\$42.00	\$0.00	
	Clerical	10	\$34.00	\$340.00	
			DII	RECT LABOR TOTAL:	\$40,175.50
9.			Overhead Rate		
	HOURLY COST MULTIPLIER (HCM)		(OR)	Net fee (NF) or Profit	1
			1.86	0.34	
				HCM (1+OR+NF)	3.20
10.			Т	OTAL LABOR COSTS	\$128,561.60
	OTHER DIRECT COSTS:			EST. COST	+
	a. TRAVEL MILEAGE: 3200 miles x \$0.54 / mile AIRFARE:		/EL SUBTOTAL:	\$100.53 \$0.00 \$100.53	
	b. EQUIPMENT, MATERIALS, SUPPLIES	(EMS)		EST. COST	
	(List itemized breakdown below or on S		enses)	\$0.00	
	(Else recinized eremide will evie wer out s	••	chises)	\$0.00	
				\$0.00	
		b. E	MS 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. S	SUB SUBTOTAL:	\$132,207.43	
	1 OTHER (Constitutions)			Edm COdm	
	d. OTHER (Specify categories)			EST. COST	
				\$0.00	
		d OTL	IER SUBTOTAL:	\$0.00 \$0.00	
	e TOT			FAL (items a through d):	\$132,307.96
12.	TOTAL COST (item 10 + 11)	LL CHIEK DIK		(items a un vugn u).	\$260,869.56
	,/				, = 2 2,0 02 .5 0
13.					
14.					

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

		CHEDULE 2	` '		
1.	ENGINE CITY COLUMBUS, OHIO	ERING COST	SUMMARY 2. CIP NO.:		3. VERSION:
	DEPT. OF PUBLIC UTILITIES		CT NO.:		
4.	NAME OF CONSULTANT:	5. PROJECT	-		-
	Brown and Caldwell	TITLE:			
6.	ADDRESS:	7. TYPE OF CO			
	4700 Lakehurst Court #100	-	DIRECT HOURI	Y W/MULTIPLII	ER
	Columbus, OH 43016		HOURLY		EXTENDED
8.	DIRECT LABOR:	EST. HRS.	RATE	SUBTOTAL	TOTAL
0.	Principal Principal	0	\$102.00	\$0.00	101112
	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 Drafter	0	\$32.00 \$34.00	\$0.00 \$0.00	
	Clerical	0	\$28.00	\$0.00	
	Civilen	U		LABOR TOTAL:	\$17,040.00
9.			Overhead Rate	Net fee (NF) or	,
٠.	HOURLY COST MULTIPLIER (HCM)		(OR)	Profit	
	,		1.90	0.30	
				HCM (1+OR+NF)	3.20
10.	OTHER DIRECT COSTS		TOTA	L LABOR COSTS	\$54,528.00
11.	OTHER DIRECT COSTS:			EST. COST	
	a. TRAVELMILEAGE: # miles x \$ (IRS rate @ da	te of travel) / mile	<u>, </u>	\$0.00	
	AIRFARE:	te of travery / finite		\$0.00	
		a. TRAV	EL SUBTOTAL:	\$0.00	
	b. EQUIPMENT, MATERIALS, SUPPLIES (I	EMS)		EST. COST	
	(List itemized breakdown below or on Sc		enses)	\$0.00	
				\$0.00	
) (a ayypmom) (\$0.00	
		b. E	MS SUBTOTAL:	\$0.00	
	c. SUBCONTRACTS			EST. COST	
			ľ	\$0.00	
				\$0.00	
				\$0.00	
			IID GUDTOTAL	\$0.00	
		c. S	UB SUBTOTAL:	\$0.00	
	d. OTHER (Specify categories)			EST. COST	
	(Transfer		ľ	\$0.00	
				\$0.00	
		d. OTH	IER SUBTOTAL:	\$0.00	
	e. TOTAL OT	HER DIRECT (COSTS TOTAL (i	tems a through d):	\$0.00
12.	TOTAL COST (item 10 + 11)				\$54,528.00
14.					\$0.00
13.					ψ0.00
					\$0.00
13.	CONTINGENCY (%)				

		CHEDULE 2. ERING COST	A (1) SUMMARY		
1.	CITY COLUMBUS, OHIO		2. CIP NO.:		3. VERSION:
	DEPT. OF PUBLIC UTILITIES	- PROVECE	CT NO.:		
4.	NAME OF CONSULTANT: Stantec	5. PROJECT TITLE:			
6	ADDRESS:	7. TYPE OF CO	NTR ACT:		
0.	ADDRESS.			Y W/MULTIPLIE	CR .
			HOURLY		EXTENDED
8.	DIRECT LABOR:	EST. HRS.	RATE	SUBTOTAL	TOTAL
	Principal (PR)	16	\$100.00	\$1,600.00	
	Project Manager (PM) Deputy Project Manager (DPM)	0 34	\$88.00 \$100.00	\$0.00 \$3,400.00	
	Technical Advisor (TA)	0	\$100.00 \$104.00	\$5,400.00	
	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) Project Scientist (PS)	0	\$62.00 \$42.00	\$0.00 \$0.00	
	Scientist (S)	0	\$42.00 \$37.00	\$0.00 \$0.00	
	Scientist (5)	U	φ37.00	φ0.00	
		•	DIRECT	LABOR TOTAL:	\$9,307.00
9.	HOURLY COST MULTIPLIER (HCM)		Overhead Rate	Net fee (NF) or	
	HOURET COST MOETH LIER (HCM)		(OR) 1.90	Profit 0.20	
				HCM (1+OR+NF)	3.10
10.			TOTA	L LABOR COSTS	\$28,851.70
11.	OTHER DIRECT COSTS:			EST. COST	
	a. TRAVEL				
	MILEAGE: # miles x \$ (IRS rate @ date)	te of travel) / mile	•	\$0.00	
	AIRFARE:	TDAX	'EL SUBTOTAL:	\$0.00	
		a. IKAV	EL SUBTOTAL:	\$0.00	
	b. EQUIPMENT, MATERIALS, SUPPLIES (I	EMS)		EST. COST	
	 EQUIPMENT, MATERIALS, SUPPLIES (I (List itemized breakdown below or on Sc 		enses)	EST. COST \$0.00	
	b. EQUIPMENT, MATERIALS, SUPPLIES (I (List itemized breakdown below or on Sc		enses)		
		hedule 2A-2 Exp		\$0.00	
		hedule 2A-2 Exp	enses) MS SUBTOTAL:	\$0.00 \$0.00	
	(List itemized breakdown below or on Sc	hedule 2A-2 Exp		\$0.00 \$0.00 \$0.00 \$0.00	
		hedule 2A-2 Exp		\$0.00 \$0.00 \$0.00	
	(List itemized breakdown below or on Sc	hedule 2A-2 Exp		\$0.00 \$0.00 \$0.00 \$0.00 EST. COST \$0.00 \$0.00	
	(List itemized breakdown below or on Sc	hedule 2A-2 Exp		\$0.00 \$0.00 \$0.00 \$0.00 EST. COST \$0.00 \$0.00	
	(List itemized breakdown below or on Sc	hedule 2A-2 Exp	MS SUBTOTAL:	\$0.00 \$0.00 \$0.00 \$0.00 EST. COST \$0.00 \$0.00 \$0.00	
	(List itemized breakdown below or on Sc	hedule 2A-2 Exp		\$0.00 \$0.00 \$0.00 \$0.00 EST. COST \$0.00 \$0.00	
	(List itemized breakdown below or on Sc	hedule 2A-2 Exp	MS SUBTOTAL:	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	
	(List itemized breakdown below or on Sc	hedule 2A-2 Exp	MS SUBTOTAL:	\$0.00 \$0.00 \$0.00 \$0.00 EST. COST \$0.00 \$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 2	` '		
1.	CITY COLUMBUS, OHIO	EERING COST	2. CIP NO.:		3. VERSION:
-	DEPT. OF PUBLIC UTILITIES NAME OF CONSULTANT:	5. PROJECT TITLE:	CT NO.:		
	Coldwater Consulting		NAME A COM		
6.	ADDRESS: 77 S 18th Street	7. TYPE OF CO		Y W/MULTIPLIE	PD .
	Columbus, OH 43205		DIKECT HOUKI	ZI W/MOLIIFLIE	Z.K.
	Columbus, O11 43203		HOURLY		EXTENDED
8.	DIRECT LABOR:	EST. HRS.	RATE	SUBTOTAL	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	фс 000 00
		_		LABOR TOTAL:	\$6,009.80
9.			Overhead Rate	Net fee (NF) or	
	HOURLY COST MULTIPLIER (HCM)		(OR)	Profit	
			1.80	0.19	
				HCM (1+OR+NF)	2.99
10.			TOTA	L LABOR COSTS	\$17,969.30
11.	OTHER DIRECT COSTS:			EST. COST	
	a. TRAVEL MILEAGE: 100 miles x \$0.54 / mile AIRFARE:		EL SUBTOTAL:	\$0.00 \$0.00 \$0.00	
	b. EQUIPMENT, MATERIALS, SUPPLIES			EST. COST	
	(List itemized breakdown below or on S	Schedule 2A-2 Expo	enses)	\$0.00	
				\$0.00	
		1. 17	MS SUBTOTAL:	\$0.00	
		D. E.	MS SUBTUTAL:	\$0.00	
	c. SUBCONTRACTS			EST. COST	
				\$0.00	
				\$0.00	
				\$0.00	
				\$0.00	
		c. S	UB SUBTOTAL:	\$0.00	
	d. OTHER (Specify categories)			EST. COST	
	u. OTHER (Specify categories)			\$0.00	
				\$0.00 \$0.00	
		д ОТН	IER SUBTOTAL:	\$0.00	
	e. TOTAL O			tems a through d):	\$0.00
12	TOTAL COST (item 10 + 11)		(1017)	······································	\$17,969.30
	101111 COOT (ROM 10 + 11)				
13.					\$0.00
14.					\$0.00
	CONTINGENCY (%)				\$0.00
	MAXIMUM FEE (items 12 through 16)				\$17,969.30

		CHEDULE 2 ERING COST	A (1) 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 CO		LY W/MULTIPLIE	ER
8	DIRECT LABOR:	EST. HRS.	HOURLY RATE	SUBTOTAL	EXTENDED TOTAL
0.	Principal Project Manager	0 0	\$96.20 \$82.30	\$0.00 \$0.00	
	Senior Project Engineer Project Engineer	16 0	\$84.06 \$56.10	\$1,344.96 \$0.00	
	Design Engineer Eng. Technician Drafter	0	\$42.50 \$47.80 \$35.20	\$0.00 \$0.00 \$0.00	
	Clerical Senior O&M Specialist	0 0 0	\$28.66 \$94.23	\$0.00 \$0.00 \$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.			ТОТА	L LABOR COSTS	\$4,303.87
11.	OTHER DIRECT COSTS:			EST. COST	,
	a. TRAVELMILEAGE: # miles x \$ (IRS rate @ data AIRFARE)	te of travel) / mile	;	\$0.00 \$0.00	
	THICH THEE	a. TRAV	EL SUBTOTAL:	\$0.00	
	b. EQUIPMENT, MATERIALS, SUPPLIES (I (List itemized breakdown below or on Sc		enses)	EST. COST \$0.00	
		b F	MS SUBTOTAL:	\$0.00 \$0.00 \$0.00	
	GLID GOVERN + GERG	0. E	WIS SUBTOTAL.		
	c. SUBCONTRACTS			\$0.00 \$0.00 \$0.00	
		c. S	UB SUBTOTAL:	\$0.00 \$0.00 \$0.00	
	d. OTHER (Specify categories)			EST. COST \$0.00	
		d. OTH	IER SUBTOTAL:	\$0.00 \$0.00	
	e. TOTAL OT			tems a through d):	\$0.00
12.	TOTAL COST (item 10 + 11)		`	<i>5</i> /	\$4,303.87
13.					\$0.00
14.					\$0.00
	CONTINGENCY (%)				\$0.00
17.	MAXIMUM FEE (items 12 through 16)				\$4,303.87

TITY COLUMBUS, OHIO 2. CIP NO; 3. VERSION:			CHEDULE 2	A (1) T SUMMARY		
NAME OF CONSULTANT: S. PROJECT	1.	CITY COLUMBUS, OHIO	ERING COST	2. CIP NO.:		3. VERSION:
Chester Engineers	L			CT NO.:		
ADDRESS	4.					
SE Broad Street #1980 DIRECT HOURLY WMULTIPLIER	_					
Columbus, OH 43215 SUBTOT LABOR: EST. HRS. RATE SUBTOT AL. TOTAL.	6.				. 	ED
BOUNCE Continue				DIKECT HOUKI	LI W/MULTIPLII	C.K
S. DIRECT LABOR: EST. HRS. RATE SUBTOTAL TOTAL		Columbus, Off 43213		HOURLY		EXTENDED
Project Manager 0	8.	DIRECT LABOR:	EST. HRS.		SUBTOTAL	
Project Engineer 0		Principal		\$85.00		1
Design Engineer 0		Project Manager	0	\$65.00	\$0.00	
Eng. Technician 0 \$40.00 \$0.00 Drafter 0 \$35.00 \$0.00 Clerical 0 \$35.00 \$0.00 DIRECT LABOR TOTAL: \$0.00 STORE STORE STORE STORE STORE STORE ST			0	\$60.00	\$0.00	
Drafter 0 \$35,00 \$0,00 \$			0	· ·		
Clerical 0 \$30.00 \$0.00						
Note						
9. HOURLY COST MULTIPLIER (HCM) Overhead Rate (OR)		Clerical	0	\$30.00	\$0.00	
HOURLY COST MULTIPLIER (HCM)				DIRECT	LABOR TOTAL:	\$0.00
1.75	9.			Overhead Rate	Net fee (NF) or	
Description		HOURLY COST MULTIPLIER (HCM)		(OR)	Profit	
10. TOTAL LABOR COSTS \$0.00				1.75	0.275	
11. OTHER DIRECT COSTS:					HCM (1+OR+NF)	3.025
11. OTHER DIRECT COSTS:	10			ТОТА	L LABOR COSTS	\$0.00
a. TRAVEL MILEAGE: # miles x \$ (IRS rate @ date of travel) / mile AIRFARE: a. TRAVEL SUBTOTAL: b. EQUIPMENT, MATERIALS, SUPPLIES (EMS) (List itemized breakdown below or on Schedule 2A-2 Expenses) SO.00 \$0.00		OTHER DIRECT COSTS:		1011		φοισσ
c. SUBCONTRACTS EST. COST \$0.00		MILEAGE: # miles x \$ (IRS rate @ da AIRFARE: b. EQUIPMENT, MATERIALS, SUPPLIES (I	a. TRAV EMS) hedule 2A-2 Exp	VEL SUBTOTAL:	\$0.00 \$0.00 EST. COST \$0.00 \$0.00	
\$0.00 \$0.0			b. E	MS SUBTOTAL:	\$0.00	
C. SUB SUBTOTAL: \$0.00		c. SUBCONTRACTS			\$0.00 \$0.00 \$0.00	
\$0.00 \$0.0			c. S	UB SUBTOTAL:		
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		d. OTHER (Specify categories)	d. OTF	IER SUBTOTAL:	\$0.00 \$0.00	
12. TOTAL COST (item 10 + 11) 13. \$0.00 14. \$0.00 16. CONTINGENCY (%) \$0.00		e. TOTAL OT			·	
13. \$0.00 14. \$0.00 16. CONTINGENCY (%) \$0.00	12.				6/-	\$0.00
16. CONTINGENCY (%) \$0.00		·				\$0.00
16. CONTINGENCY (%) \$0.00	14.					\$0.00
		CONTINGENCY (%)				
		,				\$0.00 \$ 0.0 0

		SCHEDULE 2	A (1)		
1.	CITY COLUMBUS, OHIO DEPT. OF PUBLIC UTILITIES	ERING COST	2. CIP NO.: CT NO.:	650870-100704	3. VERSION:
4.	NAME OF CONSULTANT:	5. PROJECT TITLE:			
_	Brown and Caldwell			kwood Blueprint Lii	iden Project
6.	ADDRESS:	7. TYPE OF CO			3D
	4700 Lakehurst Court #100		DIRECT HOUR	LY W/MULTIPLII	2 K
	Columbus, OH 43016		HOURLY		EXTENDED
8.	DIRECT LABOR:	EST. HRS.	RATE	SUBTOTAL	TOTAL
	Vice President	20	\$84.82	\$1,696.46	
	Senior Associate	0	\$73.59		
	Associate	0	\$66.79		
	Senior Principal Engineer	0	\$58.08		
	Principal Engineer Assistant Engineer	0	\$38.93 \$32.03		
	Senior Principal Designer	0	\$52.03 \$58.08		
	Principal Designer	0	\$38.93		
	Senior Designer	0	\$30.93		
	Administrative Assistant	0	\$26.74	· ·	
	7 Killinistati vo 7 Kisistant	Ü		LABOR TOTAL:	\$1,696.46
9.			Overhead Rate	Net fee (NF) or	42,000
	HOURLY COST MULTIPLIER (HCM)		(OR) 1.90	Profit 0.30	
				HCM (1+OR+NF)	3.20
				<u> </u>	
10.			TOTA	L LABOR COSTS	\$5,428.68
11.	OTHER DIRECT COSTS:			EST. COST	
	a. TRAVEL				
	MILEAGE: # miles x \$ (IRS rate @ da	te of travel) / mile		\$0.00	
	AIRFARE:	TDAX	EL CHDTOTAL	\$0.00	
		a. IKAV	EL SUBTOTAL:	\$0.00	
	b. EQUIPMENT, MATERIALS, SUPPLIES (EMS)		EST. COST	
	(List itemized breakdown below or on Sc	chedule 2A-2 Exp	enses)	\$0.00	1
				\$0.00	
				\$0.00	
		b. E	MS SUBTOTAL:	\$0.00	
	c. SUBCONTRACTS			EST. COST	1
				\$0.00	1
				\$0.00	
				\$0.00	
				\$0.00	
		c. S	UB SUBTOTAL:	\$0.00	
	d. OTHER (Specify categories)			EST. COST	
				\$0.00	
		1 0==	IED GLIDWOW .	\$0.00	
	_α ΤΩΤΑΙ ΩΤ		ER SUBTOTAL:	\$0.00 items a through d):	\$0.00
12	TOTAL COST (item 10 + 11)	HER DIRECT (JUSIS TUTAL (itenis a un ough (1):	\$ 0.00 \$5,428.68
13.	10.1.1.2 cost (nem 10 / 11)				\$0.00
14.					\$0.00
16.	CONTINGENCY (%)				\$0.00
1	· · · · · · · · · · · · · · · · · · ·				Ψ0.00

\$5,428.68

		CHEDULE 2	A (1) SUMMARY		
	CITY COLUMBUS, OHIO DEPT. OF PUBLIC UTILITIES	ERING COST	2. CIP NO.: CT NO.:	650870-100704	3. VERSION:
4.	NAME OF CONSULTANT: Brown and Caldwell	5. PROJECT TITLE:		kwood Blueprint Li	ndan Project
	ADDRESS:	7. TYPE OF CO		kwood Biuepiiit Li	nden Froject
	4700 Lakehurst Court #100			LY W/MULTIPLI	FR
	Columbus, OH 43016	•	DIRECT HOUR	LI W/MOLINEI	LK
- 	2014H043, 011 43010		HOURLY		EXTENDED
8. J	DIRECT LABOR:	EST. HRS.	RATE	SUBTOTAL	TOTAL
I	Principal	0	\$106.03	\$0.00)
	Project Manager	0	\$64.42	\$0.00	
	Senior Project Engineer	0		\$0.00	
	Project Engineer	120	\$56.43		
	Design Engineer	0	\$47.05		
	Eng. Technician Drafter	0	\$39.21	\$0.00	
	Dratter Clerical	0	\$37.04 \$28.24	· ·	
<u> </u>	Lierical	0	· ·		
\dashv		_		LABOR TOTAL:	\$6,771.11
9.			Overhead Rate	Net fee (NF) or	
.	HOURLY COST MULTIPLIER (HCM)		(OR)	Profit	
. -			1.90	0.22	
				HCM (1+OR+NF)	3.12
10.			TOTA	L LABOR COSTS	\$21,125.88
11. (OTHER DIRECT COSTS:			EST. COST	
	a. TRAVEL MILEAGE: # miles x \$ (IRS rate @ da AIRFARE: D. EQUIPMENT, MATERIALS, SUPPLIES (I	a. TRAV	EL SUBTOTAL:	\$0.00 \$0.00 \$0.00	
	(List itemized breakdown below or on Sc	hedule 2A-2 Exp	enses)	\$0.00 \$0.00)
		b. E	MS SUBTOTAL:	\$0.00 \$0.00	
	e. SUBCONTRACTS			EST. COST	1
				\$0.00	
				\$0.00	
				\$0.00	
, 			IID GIVEROSS	\$0.00	
		c. S	UB SUBTOTAL:	\$0.00	
,	d. OTHER (Specify categories)			EST. COST	1
, ľ	I - I - I - I - I - I - I - I - I -			\$0.00	1
				\$0.00	
, 		d. OTH	ER SUBTOTAL:	\$0.00	
	e. TOTAL OT	HER DIRECT O	COSTS TOTAL (items a through d):	
12.	ΓΟΤΑL COST (item 10 + 11)			6 "/"	\$21,125.88
	(\$0.00
13.					
13.					00.02
13. 14.	CONTINGENCY (%)				\$0.00 \$0.00

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	
Coldwator Congulting	n in in i	¢70.67	¢74.20	¢77.01	
Coldwater Consulting	Principal 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 Clerical	\$33.65 \$20.80	\$35.33 \$21.84	\$37.10 \$22.93	
		Ψ-0.00	Ψ=10 /	¥==.00	
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	\$100.0	
3.1	,	\$88.00	\$91.00	\$94.00	
3.1	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	\$78.0	
	Project Engineer (PE)	\$57.00	\$59.00	\$61.0	
	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)	\$26.00 \$57.00	\$27.00 \$59.00	\$61.00	
	Accounting (A)	\$37.00 \$27.00	\$28.00	\$29.00	
_		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
	Registered Surveyor (RS)	\$47.00	\$49.00 \$64.00	\$50.00	
	Survey Crew (CREW)	\$62.00	\$64.00	\$66.00	
	Duntant Catalitat /DC\	Ć 42 A2	643.60		
	Project Scientist (PS) Scientist (S)	\$42.00 \$37.00	\$43.00 \$38.00	\$45.00 \$39.00	

SCHEDULE 2A-2

EXPENSES

ARTANE/PARKWOOD BLUEPRINT LINDEN PROJECT CIP NO. 650870-100704, CONTRACT No. EL016133

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

Sewer Collection System OEC

	Task	-	ite titic	r Irall Error	in de la	Scope Description
1.1	Collection System Master Planning		$\overline{}$	$\int \frac{V}{V}$	$\overline{}$	Scope Description
1.2	Collection System Improvements Investigations	1		1	1	
	Basis of Design					
	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					
	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					
	Lift Station Condition Assessment		X	X		Forcemain condition assessment TM - recommended procedures and contractors
	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%)
	DOSD Environmental Elements					
	Grant and Loan Assistance					
4.3	Surveys					
4.4	Easement Information					
4.5	Soils and Geotechnical					
	Laboratory Analysis					
4.7	Reports and Presentations		X	X		Assistance, as requested (tunnel presentation, Blueprint lessons learned presentation)
	Economic Studies					
	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