Appendix A: Facility Groups for Facilities with Fire Alarm, Sprinkler, and/or Fire Suppression Systems

Facility Group 1 - Combined Sewer Overflow (CSO) Basins				
Item	Facility Name	Facility Address		
1	Baby Creek CSO	9545 Dix Road Dearborn, MI 48120-0000		
2	Belle Isle CSO	2 Pleasure Drive Detroit, MI 48207-0000		
3	Conner Creek CSO	11900 Feud Street Detroit, MI 48214-3409		
4	Hubbell-Southfield CSO	16540 Rodunda Drive Dearborn, MI 48120-1157		
5	Leib CSO	2188 Mount Elliott Street Detroit, MI 48207-0000		
6	Oakwood CSO	12082 Pleasant Street Detroit, MI 48207-0000		
7	Puritan Fenkell CSO	23675 Fenkell Street Detroit, MI 48223-1484		
8	Seven Mile CSO	19272 Shiawassee Detroit, MI 48219-0000		
9	St. Aubin CSO	2200 Atwater Street Detroit, MI 48223-1484		

Fire Alarm Systems		
Fire Alarm/Detection		
Х		
Х		
Х		
Х		
Х		
Х		
Х		
Х		
Х		

	Sprinkler Systems			Fire Suppression Systems				
Wet Sprinkler System	Dry Sprinkler System	Back Flow System	Anti-Freeze System	Portable Extinguishers	Clean Agent	Wet Chemical	Dry Chem	
				Х				
				Х				
	Х			Х				
				Х				
Х	Х	Х		Х				
	Х	Х	Х	Х				
				Х				
				Х				
Х	Х	Х		Х				

Facility Gr	roup 2 - Water Resources Recov	very Facility	Fire Alarm Systems		Sprinkler Sy	vstems			Fire Suppress	ion Systems	
Item	Facility Name	Facility Address	Fire Alarm/Detection	Wet Sprinkler System	Dry Sprinkler System	Back Flow System	Anti-Freeze System	Portable Extinguishers	Clean Agent	Wet Chemical	Dry Chemical
1	WRRF	9300 West Jefferson Ave, Detroit, MI 48209	X	Х	Х			X			Х
Facility Gr	roup 3 - Water Treatment Plan	ts	Fire Alarm Systems		Sprinkler Sy	vstems			Fire Suppress	ion Systems	
Item	Facility Name	Facility Address	Fire Alarm/Detection	Wet Sprinkler System	Dry Sprinkler System	Back Flow System	Anti-Freeze System	Portable Extinguishers	Clean Agent	Wet Chemical	Dry Chemical
1	Water Works Park		X	Х				X			Х
2	Lake Huron Water Plant		X					X			
3	Northeast Water Plant							X			
4	Southwest Water Plant		X	Х				X			
5	Springwells Water Plant	9300 West Jefferson Ave, Detroit, MI 48209	X	Х				X			Х

Bidding Notes to Contractor

1. Contractor shall field-verify and complete/fill-in yellow high-lighted cells prior to bid. A cell with an 'X' indicates an existing fire alarm, sprinkler, and/or fire suppression system is installed at the facility. Prior to submitting a bid, Contractor shall field investigate each facility to field-determine/feld-verify existing systems which are installed. Facilities shall be made available for a walkthrough by Contractor upon request to GLWA at Pre-Bid Meeting.

Appendix B: Bid Table - Bid Tab for Labor Rates, Service Rates, Equipment Rental Rates, Riders and Other Incidental Rates for Items Not Included with JCI Tiered Service Plans Selected

	Normal Weekday	Normal Weekday	Weekend - Saturday	Weekend - Sunday	GLWA Holiday -	Emergency Call -
	(M-F) - Normal	(M-F) - Premium	Premium Working	Premium Working	Premium Working	Premium Working
	Working Hours	Working Hours	Hours (12AM to	Hours (12AM to	Hours (12AM to	Hours (12AM to
Hourly Labor Rates:	(7AM to 5PM)	(5PM to 7AM)	12AM)	12AM)	12AM)	12AM)
Trained/Certified Fire Alarm Supervisor (\$):						
Trained/Certified Fire Alarm Service Technician (\$):						
Trained Fire Alarm Inspector (\$):						
Master Electrician/Foreman (\$):						
Journeyman Electrician (\$):						
Trained/Certified Sprinkler Supervisor (\$):						
Trained/Certified Sprinkler Service Technician (\$):						
Trained Sprinkler Service Inspector (\$):						
Sprinkler Fitter (\$):						
Trained/Certified Fire Suppression Supervisor (\$):						
Trained Fire Suppression Inspector (\$):						
Temporary Staffing for Manual Fire Watch (\$):						

	Normal Weekday	Normal Weekday	Weekend - Saturday	· · · ·		Emergency Call -
	(M-F) - Normal	(M-F) - Premium	Premium Working	Premium Working	Premium Working	Premium Working
	Working Hours	Working Hours	Hours (12AM to	Hours (12AM to	Hours (12AM to	Hours (12AM to
Show-Up Charges	(7AM to 5PM)	(5PM to 7AM)	12AM)	12AM)	12AM)	12AM)
Hourly Labor Charge for Normal Service Call [2 Hours Max. Billable] (\$):						
Hourly Labor Charge for Emergency Service Call [2 Hours Max. Billable] (\$):						
Truck Charge (\$):						
Incidentals Charge (Rate Adjustments, and Riders Shall Not be Billable to GLWA) (\$):	N/A	N/A	N/A	N/A	N/A	N/A

Equipment Rental Rates	Weekdays	Saturdays	Sundays	GLWA Holidays
Man Lift/Scissor Lift (Daily Rate - 24 Hours Rental) (\$):				
Scaffold Services (\$ / Ft):				

Discount to GLWA for OEM Replacement Parts List Price	Fire Alarm	Sprinkler	Fire Suppression
Preferred Customer Discount (%):			
Standard Discount Included with Tiered Service Plan (%):			

Bidding Notes to Contractor

1. Contractor shall complete/fill-in yellow high-lighted cells and submit with bid.

- 2. Show-Up charges for incidentals (such as rate adjustments, riders, and other incidentals) shall not Be billable to GLWA.
- 3. Emergency Call response time guarantee shall be 4 hours or less.

4. Warranty Guarantee shall be One (1) Year Standard Warranty covering OEM Parts and Labor. Other related Incidentals (I.e. meals, travel, lodging, etc.) shall not be billable to GLWA.

Appendix C: Summary Bid Tab for Fire Alarm, Sprinkler, Fire Suppression

	Professior	nal Service Co
	Facility Group 1 - Overflow (Combined Se
JCI Tiered Service Plan Selected by GLWA	First Three (3) Year Period	Optional Tv Year Exter Perioo
Fire Alarm Systems - Contractor's Base Bid for Preventative Maintenance and Services Included With JCI Basic Plan (\$):	D1	D2
Sprinkler Systems - Contractor's Base Bid for Preventative Maintenance and Services Included With JCI Basic Plan(\$):	E1	E2
Fire Suppression Systems - Contractor's Base Bid for Preventative Maintenance and Services Included With JCI Comprehensive Plan(\$):	F1	F2
Total (\$):		
	Credit, for Facility	Group, for O
Pro-Rated Credit for Preventative Maintenance and Services for Systems Still Under One (1) Year Warranty or Service Contract At Time of Bid Due	Facility Group 1 -	Combined Se CSO) Basins
Pro-Rated Credit for Fire Alarm Systems (\$):		
Pro-Rated Credit for Sprinkler Systems (\$):	N	I/A
Pro-Rated Credit for Fire Suppression Systems (\$):		I/A
	<u>.</u>	,
Total (\$):		
	One	Time Initial S
	Facility Group 1 - Overflow (Combined Se CSO) Basins
One Time Initial Set-Up Charge for Fire Alarm, Sprinkler, Fire Suppression Asset Tracking Database (\$):		
Total (\$):		
	Fire Aları	n Systems
Recommended Annual Repair Allowance (CSO Facilities - Facility Group 1) - Set By GLWA	\$10	0,000
Recommended Annual Repair Allowance (WRRF - Facility Group 2) - Set By GLWA		0,000
Recommended Annual Repair Allowance (Water Treatment Plants - Facility Group 3) - Set By GLWA	\$15	0,000
Appendix M - One-time Inventory Purchase - (CSO Facilities - Facility Group 1)	N	Л1
Appendix M - One Time Inventory Purchase (WRRF - Facility Group 2)		Л2
Appendix M - One Time Inventory Purchase (Water Treatment Plants - Facility Group 3)		Л7
Total (\$):		

Bidding Notes to Contractor

Directive (CCD).

1. Contractor shall complete/fill-in yellow high-lighted cells and submit with bid.

2. Contractor shall copy the base bid amounts for Preventative Maintenance and Services for Fire Alarm (Appendix-D), Sprinkler (Appendix-E), and Fire Suppression (Appendix-F) to the

3. Pricing, as bid, for recently installed fire alarm systems at facility group, shall exclude costs of preventative maintenance and service for all items which are otherwise covered by the

4. Professional Services Contract, for each Facility Group, shall be for a duration of up to five (5) years. This shall include a three (3) year duration plus an optional two (2) year extension 5. Pricing, as bid, shall be fixed for the duration of the five (5) year period for all preventative maintenance, service, and repair items including labor, supplies, parts, equipment, riders,

6. Pricing, as bid, shall include all markups including, but not limited to: Administration and supervision of the preventative maintenance and service contract, overhead and profit,

7. Upon initial set-up to initially populate Asset Tracking Database for each Facility Group, the ongoing maintenance required to keep the Asset Tracking Database current, accurate, and 8. The recommended repair allowances are the Contractors best estimate of the amounts GLWA should supply for the contract which allow work that is to be compensated at a time & materials rate to occur to address facility system needs. Money from the allowance, per GLWA Contract, is not guaranteed and may only be spend with the execution of a Contract Change

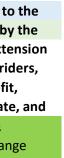
9. Contractor to input costs from Appendix M Tab.

Facility Group 2 -	Water Resource	Facility Grou	up 3 - Water
Recovery	, Facility	Treatme	nt Plants
			Optional Two
	Optional Two (2)	First Three	(2) Year
First Three (3) Year	Year Extension	(3) Year	Extension
Period	Period	Period	Period
D3	D4	D5	D6
E3	E4	E5	E6
F3	F4	F5	F6
	<i>Recovery</i> First Three (3) Year Period D3 E3	First Three (3) YearYear ExtensionPeriodPeriodD3D4E3E4	Recovery FacilityTreatmentRecovery FacilityTreatmentOptional Two (2)First ThreeFirst Three (3) YearYear ExtensionPeriodPeriodD3D4D3E4

r Overlapping One (1) Year Warranty Period at Bid Due Date and Professional Services Contract					
l Sewer Is	Facility Group 2 - Water Resource Recovery Facility	Facility Group 3 - Water Treatment Plants			
		N/A			
	N/A	N/A			
	N/A	N/A			
		N/A			

al Set-Up Charge, for Facility Group, for Asset Tracking Database					
d Sewer 1s	Facility Group 2 - Water Resource Recovery Facility	Facility Group 3 - Water Treatment Plants			

	Allowance Am	ounts:
5	Sprinkler Systems	Fire Suppression Systems
	\$25,000	\$6,500
	\$30,000	\$24,000
	\$30,000	\$22,000
	M3	M5
	M4	M6
	M8	M9
		ł



Appendix D: Bid Tab for Fire Alarm Systems - JCI Basic Plan

											Preventa	tive Maintenand	ce and Service	Schedule -	JCI Basic Plan]	
Facility	Group 1 - Combined Sewer	r Overflow (CSO) Basins	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year Remote	1X/Year	1X/Year	1X/Year	(A) Preventative	(B) 24/7/365 Outside Monitorir
														Manual		Corrosion	Explosion		Power	Corrosion			Maintenance and	Service to Call Center for
		Addressable		Fire Alarm	Remote	Fire Alarm	Smoke	Explosion	Explosion	Explosion	Heat	Corrosion	Duct Smoke	e Pull	Audio-Visual	Resistant Audio-	Proof	Explosion	Supply/NAC	Resistant		Other	Service of Facility	Alarm Notification and
		FACP	FACP Model	Control Panel	Annunicator	Battery	Detector	Proof Beam	Proof Smoke	Proof Pull	Detector	Resistant Heat	Detector	Station	Notification	Visual Appliance	Strobe	Proof	Extender	Pull Station	n Phone	(Identify	Fire Alarm (Annual	Emergency Dispatch Servic
Item	Location	Manufacturer	· No.	Qty.	Panel Qty.	Qty.	Qty.	Detector Qty.	Detector Qty	. Station Qty	. Qty.	Detector Qty.	Qty.	Qty.	Appliance Qty	. Qty.	Qty.	Horn Qty.	Qty.	Qty.	Jack Qty.	Type) Qty.	\$)	(Annual \$)
1	Baby Creek CSO	Simplex	4100	1	0		29	2				23		6	26	5	16	12	2	3				
	Belle Isle CSO	Simplex	4100	1	0	2	12		1	3		3	2	5	12		1	1		2				
3	Conner Creek CSO	Simplex	4100	1	0	6	48		10	6		2	8	15	43	2	14	8	2	6				
4	Hubbell-Southfield CSO	Simplex	4100	1	0	8	52		10	3			8	15	45		14	8	2					
5	Leib CSO	Simplex	4100	1	0	2	13					1	6	4	15			2		1				
6	Oakwood CSO	Simplex	4100	2	0	14	29	4	18	12	10		8	14	45		22	20	5		22			
7	Puritan Fenkell CSO	Simplex	4100	1	0	6	12		1			4		3	13		3	1	2	2				
8	Seven Mile CSO	Simplex	4100	1	0	4	12	1				3	4	3	14		2	1	1	2				
9	St. Aubin CSO	Simplex	4100	1	0	2	9					4	6	2	10					3				
1	Location WRRF WRRF	Addressable FACP Manufacturer Simplex Silent Night	FACP Model No. 4100	Fire Alarm Control Panel Qty. 35 + 37 (NAC) 28	Remote Annunicator Panel Qty. 10	Fire Alarm Battery Qty. 168	Smoke Detector Qty. 392 76	Explosion Proof Beam Detector Qty.	Explosion Proof Smoke Detector Qty		Heat Detector Qty. 129 34	Corrosion Resistant Heat Detector Qty.	Duct Smoke Detector Qty. 69	Manual Pull Station Qty. 257 12	Audio-Visual Notification Appliance Qty.	Corrosion Resistant Audio- Visual Appliance . Qty.	Explosion Proof Strobe Qty.	Explosion Proof Horn Qty.	Remote Power Supply/NAC Extender Qty. 29	Corrosion Resistant Pull Station Qty.		Other (Identify Type) Qty. 8 (Beam) 78 (Gas)	Preventative Maintenance and Service of Facility Fire Alarm (Annual \$)	24/7/365 Outside Monitorin Service to Call Center for Alarm Notification and Emergency Dispatch Service (Annual \$) N / A N / A
Z	VV KKF			20			/0				54			12	20							78 (GdS)		N/A
											Preventa	tive Maintenand	e and Service	Schedule -	JCI Basic Plan								1	
Facility	Group 3 - Water Treatmen	t Plants		1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year		1X/Year	1X/Year	-	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	(G)	(H)
		Addressable FACP	EACD Model	Fire Alarm Control Panel	Remote	Fire Alarm	Smoke	Explosion	Explosion	Explosion	Heat	Corrosion	Duct Smoke	Manual Pull	Audio-Visual		Explosion Proof	Explosion	Remote Power Supply/NAC	Corrosion Resistant		Other	Preventative Maintenance and Service of Facility	24/7/365 Outside Monitorin Service to Call Center for Alarm Notification and
Itom	Location	Manufacturer				,						Resistant Heat		Station				Proof	Extender	Pull Station		(Identify	Fire Alarm (Annual	Emergency Dispatch Servic
	Location Water Works Park	wanulacturer	NO.	Qty.	Panel Qty.	Qty.	Qty.	Detector Qty.	Delector Qty		. Qty.	Detector Qty.	Qty.	Qty.	Appliance Qty.	. Qty.	Qty.	Horn Qty.	Qty.	Qty.	Jack Qty.	Type) Qty.	\$)	(Annual \$)
	Lake Huron Plant																							N/A
																								N/A
5	Northeast Water Plant																				_			N/A

										Preventa	tive Maintenand	ce and Service	Schedule	JCI Basic Plan								1	
Facility Group 1 - Combined Sev	ver Overflow (CSC	D) Basins	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	(A)	(B)
Itom Location	Addressable FACP Manufacture	FACP Mode	Fire Alarm I Control Panel Qty.	Remote Annunicator Panel Qty.	Fire Alarm Battery Qty.	Detector		Explosion Proof Smoke Detector Qty		Heat Detector			Station	Audio-Visual Notification Appliance Qty.	Corrosion Resistant Audio- Visual Appliance		Explosion Proof	Extender	Pull Station		Other (Identify	Preventative Maintenance and Service of Facility Fire Alarm (Annual	24/7/365 Outside Monitorin Service to Call Center for Alarm Notification and Emergency Dispatch Service (Annual \$)
Item Location 1 Baby Creek CSO	Simplex	4100	Q (y)		Qiy.	Qty.		Detector Qty		. Qty.	Detector Qty.	Qty.	Qty.		. Qty.	Qty.	Horn Qty.	Qty.	Qty.		Type) Qty.	\$)	(Annual Ş)
2 Belle Isle CSO	Simplex	4100	1	0	2	12	2	1	3		3	2	5	12		1	1	2	2				
3 Conner Creek CSO	Simplex	4100	1	0	6	48		10	6		2	8	15	43	2	14	8	2	6				
4 Hubbell-Southfield CSO		4100	1	0	8	52		10	3			8	15	45		14	8	2					
5 Leib CSO	Simplex	4100	1	0	2	13					1	6	4	15			2		1				
6 Oakwood CSO	Simplex	4100	2	0	14	29	4	18	12	10		8	14	45		22	20	5		22			
7 Puritan Fenkell CSO	Simplex	4100	1	0	6	12		1			4		3	13		3	1	2	2				
8 Seven Mile CSO	Simplex	4100	1	0	4	12	1				3	4	3	14		2	1	1	2				
9 St. Aubin CSO	Simplex	4100	1	0	2	9					4	6	2	10					3				
	Addressable		Fire Alarm	Remote	Fire Alarm	Smoke	Explosion	Explosion	Explosion	Heat	Corrosion	Duct Smoke	Manual	Audio-Visual	Corrosion	Explosion		Remote Power	Corrosion Resistant		Other	Preventative Maintenance and Service of Facility	24/7/365 Outside Monitorin Service to Call Center for Alarm Notification and
	FACP		I Control Panel			Detector	· ·	Explosion Proof Smoke	· ·			Duct Smoke Detector	Pull Station	Notification	Resistant Audio- Visual Appliance		Explosion Proof	Supply/NAC Extender	Pull Station	n Phone	(Identify	Fire Alarm (Annual	Emergency Dispatch Service
Item Location	Manufacture		Qty.	Panel Qty.	Qty.	Qty.		Detector Qty			Detector Qty.	Qty.	Qty.	Appliance Qty	Qty.	Qty.	Horn Qty.	Qty.	Qty.	Jack Qty.		\$)	(Annual \$)
1 WRRF	Simplex	4100	35 + 37 (NAC)	10	168	392	Detector Qty:			129	Detector Qty.	<u>69</u>	257		. Quy.	Quy.	nom quy.	29	Qty.	Juck Qty.	8 (Beam)	<i>\$</i>]	N / A
2 WRRF	Silent Night		28			76				34			12	28							78 (Gas)		N/A
		•																					· · ·
										Preventa	tive Maintenand	e and Service	Schedule	JCI Basic Plan									
Facility Group 3 - Water Treatm	ent Plants		1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	(G)	(H)
													Manual		Corrosion	Explosion		Remote Power	Corrosion			Preventative Maintenance and	24/7/365 Outside Monitorin Service to Call Center for
	Addressable		Fire Alarm	Remote	Fire Alarm		· ·	Explosion	Explosion	Heat	Corrosion	Duct Smoke	Pull		Resistant Audio-		Explosion	Supply/NAC			Other	Service of Facility	Alarm Notification and
	FACP		Control Panel		,						Resistant Heat		Station		Visual Appliance		Proof	Extender	Pull Station		(Identify	Fire Alarm (Annual	Emergency Dispatch Service
Item Location	Manufacture	r No.	Qty.	Panel Qty.	Qty.	Qty.	Detector Qty.	Detector Qty	. Station Qty	. Qty.	Detector Qty.	Qty.	Qty.	Appliance Qty	. Qty.	Qty.	Horn Qty.	Qty.	Qty.	Jack Qty.	Type) Qty.	\$)	(Annual \$)
1 Water Works Park																							N/A
2 Lake Huron Plant																							N/A
3 Northeast Water Plant		_																		_		4	N/A

										Preventa	tive Maintenand	e and Service	Schedule -	JCI Basic Plan									
Facility Group 1 - Combined Sewe	er Overflow (CSO)) Basins	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	(A)	(B)
	Addressable FACP		Fire Alarm Control Panel	Remote Annunicator		Detector		Explosion Proof Smoke		Heat Detector			Station	Audio-Visual Notification	Corrosion Resistant Audio- Visual Appliance	Strobe	Explosion Proof	Extender	Corrosion Resistant Pull Station	Phone	Other (Identify	Preventative Maintenance and Service of Facility Fire Alarm (Annual	24/7/365 Outside Monitor Service to Call Center for Alarm Notification and Emergency Dispatch Servi
Item Location	Manufacturer	No.	Qty.	Panel Qty.	Qty.	Qty.	Detector Qty.	Detector Qty.	Station Qty.	Qty.	Detector Qty.	Qty.	Qty.	Appliance Qty	. Qty.	Qty.	Horn Qty.	Qty.	Qty.	Jack Qty.	Type) Qty.	\$)	(Annual \$)
1 Baby Creek CSO	Simplex	4100	1	0		29	2	1	2		23	2	6	26	5	16	12	2	3				
2 Belle Isle CSO	Simplex	4100	1	0	2	12		1	3		3	2	5	12 43	2	1	8	2	2				
3 Conner Creek CSO 4 Hubbell-Southfield CSO	Simplex Simplex	4100 4100	1	0	8	48		10 10	0		2	8	15		2	14		2	D				
	Simplex	4100	1	0	2	52		10	5		1	6	15	45		14	8	2	1				
5 Leib CSO 6 Oakwood CSO	Simplex	4100	1	0	14	13 29	4	18	12	10	1	8	4	<u>15</u> 45		22	20	5		22			
7 Puritan Fenkell CSO	Simplex	4100	2	0	6	12	4	10	12	10	4	0	14	13		3	20	2	2	22			
8 Seven Mile CSO	Simplex	4100	1	0	4	12	1	1			4	4	2	13		2	1	2	2				
9 St. Aubin CSO	Simplex	4100	1	0	4	12	1				5	4	2	14		2		1	2				
3 St. Addin CSO	Simplex	4100	1	0	2	9					4	0	2	10					5				
										Droventa	tive Maintenand	e and Service	Schodulo -	ICI Basic Plan								1	
Facility Group 2 - Water Resource	P Recovery Facilit	v	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year		1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	(D)	(E)
	Addressable FACP	FACP Model	Fire Alarm Control Panel	Remote Annunicator	Fire Alarm Battery	Smoke Detector	Explosion Proof Beam	Explosion Proof Smoke	Explosion Proof Pull	Heat Detector	Corrosion Resistant Heat	Duct Smoke Detector	Manual Pull Station	Audio-Visual Notification	Corrosion Resistant Audio- Visual Appliance	Explosion Proof		Remote Power Supply/NAC Extender	Corrosion Resistant Pull Station	Phone	Other (Identify	Preventative Maintenance and Service of Facility Fire Alarm (Annual	24/7/365 Outside Monitori Service to Call Center for Alarm Notification and Emergency Dispatch Servio
Item Location	Manufacturer	No.	Qty.	Panel Qty.	Qty.	Qty.	Detector Qty.	Detector Qty.	Station Qty.	Qty.	Detector Qty.	Qty.	Qty.	Appliance Qty	. Qty.	Qty.	Horn Qty.	Qty.	Qty.	Jack Qty.	Type) Qty.	\$)	(Annual \$)
1 WRRF	Simplex	4100	35 + 37 (NAC)	10	168	392				129		69	257	1				29			8 (Beam)		N/A
2 WRRF	Silent Night		28			76				34			12	28							78 (Gas)		N/A
																				-			
					_	_				Preventa	tive Maintenand	e and Service	Schedule -	JCI Basic Plan							-		
Facility Group 3 - Water Treatme	nt Plants		1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year	1X/Year Manual	1X/Year	1X/Year Corrosion	1X/Year Explosion		1X/Year Remote Power	1X/Year Corrosion	1X/Year	1X/Year	(G) Preventative Maintenance and	(H) 24/7/365 Outside Monitor Service to Call Center for
	Addressable		Fire Alarm	Remote	Fire Alarm		· ·	Explosion		1					Resistant Audio-		Explosion	Supply/NAC			Other	Service of Facility	Alarm Notification and
	FACP	FACP Model	Control Panel							1	Resistant Heat		Station				Proof	Extender	Pull Station		(Identify	Fire Alarm (Annual	Emergency Dispatch Servi
Item Location	Manufacturer	No.	Qty.	Panel Qty.	Qty.	Qty.	Detector Qty.	Detector Qty.	Station Qty.	Qty.	Detector Qty.	Qty.	Qty.	Appliance Qty	. Qty.	Qty.	Horn Qty.	Qty.	Qty.	Jack Qty.	Type) Qty.	\$)	(Annual \$)
1 Water Works Park																							N/A
2 Lake Huron Plant																							N/A
3 Northeast Water Plant																							N/A
4 Southwest Water Plant																							N/A
5 Sprinwells Water Plant																							N/A

Bidding Notes to Contractor

1. Contractor shall field-verify and complete/fill-in yellow high-lighted cells prior to bid. Prior to submitting a bid, Contractor shall field investigate each facility to field-determine/feld-verify existing systems which are installed

2. Contractor shall copy the teal high-lighted cells with base bid amounts for Preventative Maintenance and Services for Fire Alarm to Summary Bid Tab (Appendix-C) and submit with bid.

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Appendix E: Bid Tab for Sprinkler Systems - JCI Basic Plan

Facility G	roup 1 - Combined Sewer	Preve	entative Maintena	nce and Service S	Schedule - JCI Bas	ic Plan	Preventative
Overflow	(CSO) Basins	4X/Year	2X/Year	1X/Year	1X/Year	1X/Year	Maintenance and
ltem	Location	Dry Sprinkler System Qty.	Wet Sprinkler System Qty.	Back Flow System Qty.	Anti-Freeze System Qty.	Other (Identify Type) Qty.	Service of Facility Sprinkler (Annual \$)
1	Baby Creek CSO						
2	Belle Isle CSO						
3	Conner Creek CSO		1				
4	Hubbell-Southfield CSO						
5	Leib CSO	1	1	2			
6	Oakwood CSO		5	5	1	1	
7	Puritan Fenkell CSO						
8	Seven Mile CSO						
9	St. Aubin CSO	1	1	2			

Facility Gr	oup 2 - Water Resource	Prev	entative Maintena	nce and Service	Schedule - JCI Basi	c Plan	
Recovery	Facility	4X/Year	2X/Year	1X/Year	1X/Year	1X/Year	
				Switches			Preventative
				(Pressure,			Maintenance and
		Dry Sprinkler	Wet Sprinkler	Waterflow,			Service of Facility
Item	Location	System Qty.	System Qty.	Tanper)	Deluge System	Fire Pumps	Sprinkler (Annual \$)
1	WRRF	2	15	105	2	2	

		Preve	entative Maintena	nce and Service	Schedule - JCI Basi	c Plan	
Facility Gr	oup 3 - Water Treatment Plants	4X/Year	2X/Year	1X/Year	1X/Year	1X/Year	
				Switches			Preventative
				(Pressure,			Maintenance and
		Dry Sprinkler	Wet Sprinkler	Waterflow,			Service of Facility
Item	Location	System Qty.	System Qty.	Tanper)	Deluge System	Fire Pumps	Sprinkler (Annual \$)
1	Water Works Park						
2	Lake Huron Plant						
3	Northeast Plant						
4	Southwest Plant						
5	Springwells Plant						

Bidding Notes to Contractor

1. Contractor shall field-verify and complete/fill-in yellow high-lighted cells prior to bid. Prior to submitting a bid, Contractor shall field investigate each

2. Contractor shall copy the teal high-lighted cells with base bid amounts for Preventative Maintenance and Services for Sprinkler to Summary Bid Tab

Great Lakes Water Authority Professional Services Contract - Preve Service, and Repair of Fire Alarm, Sprinkler, and Fire Suppression S

Appendix F: Bid Tab for Fire Suppression Systems - JCI Comprehensive Plan

Facility G	roup 1 - Combined Sewer	Preventative Maintenance and Service Schedule - JCI Comprehensive Plan						
Overflow	(CSO) Basins	1X/Year	1X/Year	1X/Year	1X/Year			
ltem	Location	Portable Extinguishers (Dry Chem; Stored Pressure; Refillable; ABC) Qty.	Clean Agent Qty.	Wet Chemical Qty.	Dry Chemical Qty.			
1	Baby Creek CSO	25						
2	Belle Isle CSO	7						
3	Conner Creek CSO	18						
4	Hubbell-Southfield CSO	8						
5	Leib CSO	6						
6	Oakwood CSO	18						
7	Puritan Fenkell CSO	13						
8	Seven Mile CSO	10						
9	St. Aubin CSO	6						

		Preventative Maintenance and Service Schedule - JCI Comprehensive Plan	Prevento	ntive Maintenance and	d Service Schedule -	JCI Basic Plan
			2X/Year	2X/Year		
Facility Gr	oup 2 - Water Resources		(CO2 System &	(CO2 System		
Recovery I	•	1X/Year	Refrigerant)	Refrigerant ONLY)	2X/Year	2X/Year
		Portable Extinguishers (Dry				
		Chem; Stored Pressure;	CO2 Systems		Halon Systems	
Item	Location	Refillable; ABC) Qty.	Qty.	CO2 Systems Qty.	Qty.	FM-200 Qty.
1 WRRF		308	5	5	1	2

		Preventative Maintenance				
		and Service Schedule - JCI				
		Comprehensive Plan	Preventa	tive Maintenance and	d Service Schedule -	JCI Basic Plan
			2X/Year	2X/Year		
			(CO2 System &	(CO2 System		
Facility Gr	oup 3 - Water Treatment Plants	1X/Year	Refrigerant)	Refrigerant ONLY)	2X/Year	2X/Year
		Portable Extinguishers (Dry				
		Chem; Stored Pressure;	CO2 Systems		Halon Systems	
Item	Location	Refillable; ABC) Qty.	Qty.	CO2 Systems Qty.	Qty.	FM-200 Qty.
1	Water Works Park					
2	Lake Huron Plant					
3	Northeast Plant					
4	Southwest Plant					
5	Springwells Plant					

Bidding Notes to Contractor

1. Contractor shall field-verify and complete/fill-in yellow high-lighted cells prior to bid. Prior to submitting a bid, Contractor shall field investigate each facility to

2. Contractor shall copy the teal high-lighted cells with base bid amounts for Preventative Maintenance and Services for Fire Suppression to Summary Bid Tab

Appendix G: Bid Tab for Fire Alarm - Unit Pricing Of Labor and Material for PM, Repair, Replacement, Installation, and Ad Hoc Services

		Preventative					
		Maintenance and					
		Service Not Included in	OEM Part Repair	OEM Part Replacement		Ad Hoc Service	
		JCI Basic Plan (Qty.	Labor (Qty. Hours	Labor (Qty. Hours Per			Comments (List and Describe Repair, Replacement, Testing,
Item	Description	Hours Per Part)	Per Part)	Part)	Part (\$)		Ad Hoc Service)
	- Parts PM, Repair, Replacement		•				
	Fire Alarm Control Panel - Electronic Board						
2	Fire Alarm Control Panel - Battery						
	Fire Alarm Control Panel - Battery Charger						
4	Fire Alarm Control Panel - Power Supply						
	Remote Annunicator Panel						
6	Detector Device Battery						
	Smoke Detector						
8	Explosion-Proof Beam Detector						
	Explosion-Proof Smoke Detector						
	Explosion-Proof Pull Station						
	Heat Detector						
12	Corrosion-Resistant Heat Detector						
13	Duct Smoke Detector						
14	Manual Pull Station						
	Corrosion-Resistant Pull Station						
	Audio-Visual Notification Appliance						
	Corrosion-Resistant Audio-Visual Notification Appliance						
	Explosion-Proof Strobe						
	Explosion-Proof Horn						
20	Remote Power Supply/NAC Extender						
	Phone Jack						
	Intermediate Addressable Relay						
	Zone Addressable Relay						
	DACT Unit						
	Signal/Control Cable in 3/4"C (Per Linear Foot)						
	Gas Detector						
	Other Parts (List and Describe)						
	Other Parts (List and Describe)						
	Other Parts (List and Describe)						
Fire Alarm	- Ad Hoc Services						
	Annual smoke sensativity test (Per Device)						
	Annual calibration of gas detection device (Per Device)						
	Smoke Detector Cleaning for Devices Outside Sensitivity Range (Per Device)						
	Cable/ground fault repair (Per Ground Fault)						
	Fire Alarm Control Panel Programming (Per Device)						
	Safety walkthroughs/audits/demonstrations with AHJ, Owner, MiOSHA, etc.						
	Repair/Replacement/installation Work (Describe)						
	Other Ad Hoc Service (List and Describe)						
	Other Ad Hoc Service (List and Describe)						

Bidding Notes to Contractor

1. Contractor shall field-verify and complete/fill-in yellow high-lighted cells prior to bid. Prior to submitting a bid, Contractor shall field investigate each facility to field-determine/feld-verify existing systems which are installed and type/quantities of devices installed. Facilities shall be made available for a walk-through by Contractor upon request to GLWA at Pre-Bid Meeting.

Appendix H: Bid Tab for Sprinkler - Unit Pricing Of Labor and Material for PM, Repair, Replacement, Installation, and Ad Hoc Services

		Preventative Maintenance and Service Not Included in	OEM Part Repair	OEM Part Replacement		Ad Hoc Service	
		JCI Basic Plan (Qty.	Labor (Qty. Hours	Labor (Qty. Hours Per			Comments (List and Describe Repair, Replacement, Testing,
Item	Description	Hours Per Part)	Per Part)	Part)	Part (\$)		Ad Hoc Service)
Sprinkler -	Parts PM, Repair, Replacement				•		
1	Sprinkler Head						
2	Sprinkler Valve						
3	Sprinkler Small Dia. Piping Segment (Per Linear Foot) (List and Describe Pipe Diameter)						
4	Sprinkler Large Dia. Piping Segment (Per Linear Foot) (List and Describe Pipe Diameter)						
5	Other Parts (List and Describe)						
6	Other Parts (List and Describe)						
7	Other Parts (List and Describe)						
Sprinkler -	Ad Hoc Services						
	One-Time Decommissioning of Fire Hoses: Removal of existing fire hoses in fire hose cabinets.						
1	Coordination with AHJ to obtain written exemption to abandon fire hose cabinets in place and						
	remove fire hoses						
2	Monthly NFPA 25 Fire Pump Churn (Pressure/Volume) Testing						
3	Annual backflow inspection.						
	5-Year Sprinkler Fluid Treatments (i.e. Anti-Freeze, Anti-Corrosion): Water conditioning treatments						
4	such as anti-freeze and anti-corrosion additives based upon results of periodic sampling and						
	testing						
5	5-Year Testing – Sprinkler: 5-Year Testing and maintenance - I.e. complete draining of sprinkler						
_	piping for visual inspection of piping interior for corrosion.						
6	Bi-annual periodic flushing of sprinkler piping, fluid treatments						
/	Semi-annual flushing of sprinkler piping (in lieu of annual periodic testing included with the JCI						
	Basic Plan						
	Safety walkthroughs/audits/demonstrations with AHJ, Owner, MiOSHA, etc.						
	Repair/Replacement/installation Work (Describe)						
	Other Ad Hoc Service - Dry Sprinkler System (List and Describe)						
	Other Ad Hoc Service - Wet Sprinkler System (List and Describe)						
12	Other Ad Hoc Service - Backflow System (List and Describe)						
13	Other Ad Hoc Service - Anti-Freeze System (List and Describe)						

Bidding Notes to Contractor

1. Contractor shall field-verify and complete/fill-in yellow high-lighted cells prior to bid. Prior to submitting a bid, Contractor shall field investigate each facility to field-determine/feld-verify existing systems which are installed and type/quantities of devices installed. Facilities shall be made available for a walk-through by Contractor upon request to GLWA at Pre-Bid Meeting.

Appendix I: Bid Tab for Fire Suppression - Unit Pricing Of Labor and Material for PM, Repair, Replacement, Installation, and Ad Hoc Services

		Preventative					
		Maintenance and Service					
		Not Included in JCI	OEM Part Repair	OEM Part Replacement		Ad Hoc Service	
		Comprehensive Plan (Qty.		Labor (Qty. Hours Per			Comments (List and Describe Repair, Replacement, Testing,
-	Description	Hours Per Part)	Per Part)	Part)	Part (\$)	per Service)	Ad Hoc Service)
	sion - Parts PM, Repair, Replacement						
	Portable Extinguisher Dry Chemical Suppression Agent						
	Portable Extinguisher Tank						
3	Other Parts (List and Describe) - Clean Agent						
4	Other Parts (List and Describe) - Wet Chemical						
5	Other Parts (List and Describe) - Dry Chemical						
6	Other Parts (List and Describe)						
7	Other Parts (List and Describe)						
Fire Suppr	ession - Ad Hoc Services						
1	Five-Year Portable Fire Extinguisher (Pressure) Testing						
2	Monthly Portable Fire Extinguisher Visual Testing						
3	Safety walkthroughs/audits/demonstrations with AHJ, Owner, MiOSHA, etc.						
4	Repair/Replacement/installation Work (Describe)						
5	Other Ad Hoc Service - Clean Agent (List and Describe)						
6	Other Ad Hoc Service - Wet Chemical (List and Describe)						
7	Other Ad Hoc Service - Dry Chemical (List and Describe)						
8	Other Ad Hoc Service - (List and Describe)						
9	Other Ad Hoc Service - (List and Describe)						

Bidding Notes to Contractor

1. Contractor shall field-verify and complete/fill-in yellow high-lighted cells prior to bid. Prior to submitting a bid, Contractor shall field investigate each facility to field-determine/feld-verify existing systems which are installed and type/quantities of devices installed. Facilities shall be made available for a walk-through by Contractor upon request to GLWA at Pre-Bid Meeting.

Appendix M: Bid Tab for Spare Consumable Parts, and Long-lead Items - Allowance for Fire Alarm, Sprinkler, Fire Suppression

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ltem Fire Alarm	Description - Consumable Parts	(B) List Price for OEM Part (\$)	Equipment Lead Time (weeks)	Baby Creek CSO (Spare Qty.)	Belle Isle CSO (Spare Qty.)	Conner Creek CS (Spare Qty.)
1	Fire Alarm Control Panel - Electronic Board		(
2	Fire Alarm Control Panel - Battery					
3	Fire Alarm Control Panel - Battery Charger					
4	Fire Alarm Control Panel - Power Supply					
5	Remote Annunicator Panel					
6	Detector Device Battery					
7	Smoke Detector					
8	Explosion-Proof Beam Detector					
9	Explosion-Proof Smoke Detector					
10	Explosion-Proof Pull Station					
11	Heat Detector					
12	Corrosion-Resistant Heat Detector					
13	Duct Smoke Detector					
14	Manual Pull Station					
15	Corrosion-Resistant Pull Station					
16	Audio-Visual Notification Appliance					
17	Corrosion-Resistant Audio-Visual Notification Appliance					
18	Explosion-Proof Strobe					
19	Explosion-Proof Horn					
20	Remote Power Supply/NAC Extender					
21	Phone Jack					
22	Intermediate Addressable Relay					
23	Zone Addressable Relay					
24	DACT Unit					
27	Gas Detector					
29	Other Parts (List and Describe)					
31	Other Parts (List and Describe)					
33	Other Parts (List and Describe)					
Sprinkler	- Consumable Parts					
Sprinkler 1	- Consumable Parts Sprinkler Head					
	Sprinkler Head Sprinkler Valve					
1	Sprinkler Head Sprinkler Valve Other Parts (List and Describe)					
1 2	Sprinkler Head Sprinkler Valve Other Parts (List and Describe) Other Parts (List and Describe)					
1 2 5	Sprinkler Head Sprinkler Valve Other Parts (List and Describe)					
1 2 5 6	Sprinkler Head Sprinkler Valve Other Parts (List and Describe) Other Parts (List and Describe)					
1 2 5 6 7	Sprinkler Head Sprinkler Valve Other Parts (List and Describe) Other Parts (List and Describe)					
1 2 5 6 7	Sprinkler Head Sprinkler Valve Other Parts (List and Describe) Other Parts (List and Describe) Other Parts (List and Describe)					
1 2 5 6 7 Fire Suppr	Sprinkler Head Sprinkler Valve Other Parts (List and Describe) Other Parts (List and Describe) Other Parts (List and Describe)					
1 2 5 6 7 <u>Fire Suppr</u> 1	Sprinkler Head Sprinkler Valve Other Parts (List and Describe) Portable Extinguisher Dry Chemical Suppression Agent					
1 2 5 6 7 <u>Fire Suppr</u> 1 2	Sprinkler Head Sprinkler Valve Other Parts (List and Describe) Portable Extinguisher Dry Chemical Suppression Agent Portable Extinguisher Tank					
1 2 5 6 7 Fire Suppr 1 2 3	Sprinkler Head Sprinkler Valve Other Parts (List and Describe) Portable Extinguisher Dry Chemical Suppression Agent Portable Extinguisher Tank Other Parts (List and Describe) - Clean Agent					
1 2 5 6 7 Fire Suppr 1 2 3 4	Sprinkler Head Sprinkler Valve Other Parts (List and Describe) Portable Extinguisher Dry Chemical Suppression Agent Portable Extinguisher Tank Other Parts (List and Describe) - Clean Agent Other Parts (List and Describe) - Wet Chemical					

Bidding Notes to Contractor

1. Contractor shall field-verify and complete/fill-in yellow high-lighted cells prior to bid. Prior to submitting a bid, Contractor shall field investigate each facility to field-determine/feld-verify existing systems which are installed and type/quantities of devices installed. Facilities shall be made available for a walk-through by Contractor upon request to GLWA at Pre-Bid Meeting.

Great Lakes Water Authority Professional Services Contract - Preventative Maintenance and Service, and Repair of Fire Alarm, Sprinkler, and Fire Suppression Systems for Facility Groups

	Contractor Recommended Spare Consumable Parts - Quantity for Each Facility Facility Group 1 - Combined Sewer Overflow (CSO) Basins Facility Group 2 - Water Resource Facility Group 2 - Water Resource																
	Facility Group 3 - Water Treatment Plants																
Hubbell- CSO Southfield CSC .) (Spare Qty.)			uritan Fenkell CSO (Spare Qty.)	Seven Mile CSO (Spare Qty.)	St. Aubin CSO (Spare Qty.)	(A) Total Quantity (Each Part) Facility Group 1	(A) x (B) Total (\$)	(D) WRRF (Qty.)	(D) x (B) Total (\$)	Water Works Park (Qty.)	Lake Huron Plant (Qty.)	Northeast Water Plant (Qty.)	Southwest Water Plant (Qty.)	Springwells Water Plant (Qty.)		(E) Total Quantity (Each Part) Facility Group 3	(E)x (B) Total (\$)
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	Wor	ksheet Sub-Total Fo	or Spare Consu	mable Parts, and	Long-lead Items Fo	or Each Facility Group(\$):											

Appendix N: Bid Tab for Fire Alarm Device Obsolescence Worksheet

	Description		(C) Labor Cost for Each	Baby Creek CSO		Conner Creek CSC
	<u>- Consumable Parts</u>	Part (\$)	OEM Part (\$)	(Qty.)	Qty.)	Qty.)
1	Smoke Detector					
2	Explosion-Proof Beam Detector					
3	Explosion-Proof Smoke Detector					
4	Explosion-Proof Pull Station					
5	Heat Detector					
6	Corrosion-Resistant Heat Detector					
7	Duct Smoke Detector					
8	Manual Pull Station					
9	Corrosion-Resistant Pull Station					
10	Audio-Visual Notification Appliance					
11	Corrosion-Resistant Audio-Visual Notification Appliance					
12	Explosion-Proof Strobe					
13	Explosion-Proof Horn					
14	Gas Detector					
15	Other Parts (List and Describe)					
16	Other Parts (List and Describe)					
17	Other Parts (List and Describe)					
18	Other Parts (List and Describe)					
19	Other Parts (List and Describe)					
20	Other Parts (List and Describe)					
21	Other Parts (List and Describe)					
22	Other Parts (List and Describe)					
23	Other Parts (List and Describe)					
24	Other Parts (List and Describe)					
27	Other Parts (List and Describe)					
29	Other Parts (List and Describe)					
31	Other Parts (List and Describe)					
33	Other Parts (List and Describe)					

1 and 2(\$):

Bidding Notes to Contractor

1. Contractor shall field-verify and complete/fill-in yellow high-lighted cells prior to bid. Prior to submitting a bid, Contractor shall field investigate each facility to field-determine/feld-verify existing systems which are installed and type/quantities of devices installed. Facilities shall be made available for a walk-through by Contractor upon request to GLWA at Pre-Bid Meeting.

2. Bid Tab for Fire Alarm Systems shall include an annual Provisional Fire Alarm Device Obsolescence Allowance, with delineated unit pricing, for each facility group. The Provisional Fire Alarm Device Obsolescence Allowance, for each facility group, is reserved to accommodate for planned obsolescence of devices and to accommodate for the routine repair/replacement of nuisance, failed, damaged, or deteriorated items for the duration of the Professional Services Contract for each facility group. This annual allowance is for discretionary use and will require written approval by GLWA on an item-by-item basis where recommended by Contractor with supporting documentation and where the item is not otherwise warrantied. The annual Provisional Fire Alarm Device Obsolescence Allowance, for each facility group, is reserved for the replacement of: 10% of automatic fire detection devices ; 10% of gas detection devices per year; 10% of corrosion resistant devices per year; 10% of explosion-proof devices per year; 5% of devices such as manual pull stations, horns/strobes, zone addressable modules, etc. per year.

Great Lakes Water Authority Professional Services Contract - Preventative Maintenance and Service, and Repair of Fire Alarm, Sprinkler, and Fire Suppression Systems for Facility Groups

								Obsole	scence Device Quantity	for Each Facility Per	Year							
Facility Group 1 - Combined Sewer Overflow (CSO) Basins						Facility Group 2 - Water Resource Recovery Facility		Facility Group 3 - Water Treatment Plants										
60 (Hubbell- Southfield CSO (Oakwood CSO (Seven Mile CSO (Qty.)	St. Aubin CSO (Qty.)	(A) Total Quantity (Each Part) Facility Group 1	(A)x (B + C) Total (\$)	(D) WRRF (Qty.)	(D)x (B + C) Total (\$)	Water Works Park (Qty.)	Lake Huron Plant (Qty.)	Northeast Water	Southwest	Springwells Water Plant (Qty.)	(E) Total Quantity (Each Part) Facility Group 3	(E)x (B + C) Total (\$)	Comments (List and Describe Obsolsescent Pa
_																		
_																		
				Monkshoot Cul	Total Fau Fine Ala	m Davias Obselsors		(N1)		(N2)						ſ	(N3)	1
				worksneet Sub	b-Total For Fire Ala		nse <u>Facility Group(</u> \$):									l]

(N1) + (N2) + (N3) Worksheet Total For Fire Alarm Device Obsolescense <u>Facility Group(</u>\$):