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CROWDER CONSTRUCTION COMPANY
HEAVY CIVIL DIVISION

May 22, 2013

Kimley-Horn and Associates, Inc.
PO Box 33068
Raleigh, NC 27636-3068

Attn: Mr. Kevin Carter, P.E.

Ref: Ellerbe Creek Aerial Sewer Crossing Replacement
Kimley-Horn Project No. 011494062

Subject: PCO 005 Bypass Pumping Weekly Costs

Mr. Carter:

As requested please find attached PCO 005 for the continuous operation of the bypass pumping system as referenced in the letter dated 4/24/13 and as detailed by the attached breakdown of costs. As discussed, these costs will be incurred on a weekly basis until the interceptor line replacement associated with PCO 004 (Interceptor Replacement) is complete. All costs will be billed for monthly with the application for payment.

This proposal specifically excludes the following:

- Modifications to the system creek crossing as referenced in the letter dated 5/6/13 as attached.

Per our current schedule and solely dependent upon PCO 004 approval and scope completion the current bypass system removal date is 10/25/13. As outlined by the bypass schedule/timeline attached we request that a firm lump sum Change order be issued in the amount of $488,052.57 for the additional work as detailed here-in. Following bypass system removal an adjusting Change Order shall be issued reflecting the actual weekly usage and the total costs associated.

Crowder trusts that this proposal meets your approval and that a formal change order shall be issued in the near future. Acceptance of this proposal is requested by 6/2/13. Any additional work required shall be subject to a revised proposal. Should you have any questions or require any additional information, please do not hesitate to contact us.

Sincerely,
Crowder Construction Company

Tony Nash
Project Manager

Cc: Crowder Quote 005 File

By-Pass Pumping Weekly Cost Breakdown by Scenario

#1

Continuous operation required when pumps should be on standby not being operated

Pump Standby Rental Rate	$ 2,914.85	Delta between standby rate and rental rate
Fuel Costs	$ 3,830.40	1008 gallons per week at $3.80/ gallon (168 hours/week)(6 gallons/hour)
Pump Monitoring Labor	$ 6,522.12	108 hours per week at $60.39/hr (Mon-Fri 12 hrs/day; Sat-Sun 24 hrs/day)
Light Plant	$ 360.00	Weekly Rent
Fuels and Lubricants	$ 143.72	For Light Plant and vehicles
Daren Sumner	$ 354.38	7 hours per week at $90/hr
Tony Nash	$ 111.25	2 hours per week at $95/hr

Cost	Fringe + OH&P	Total
$ 14,236.72	$ 2,655.28	$ 16,892.00

#2

Continuous operation when pumps should only be operated 8hrs/day

Pump Rental Rate	$ -	Pump operation is required by Contract. Cost covered by Crowder
Fuel Costs	$ 2,918.40	768 gallons per week at $3.80/gallon (128 hours/week)(6 gallons/hour)
Pump Monitoring Labor	$ 7,729.92	128 hours per week at $60.39/hr (Mon-Fri 16 hrs/day; Sat-Sun 24 hrs/day)
Light Plant	$ 360.00	Weekly Rate
Fuels and Lubricants	$ 143.72	For Light Plant and vehicles
Daren Sumner	$ 354.38	7 hours per week at $90/hr
Tony Nash	$ 111.25	2 hours per week at $95/hr

Cost	Fringe + OH&P	Total
$ 11,617.67	$ 2,220.33	$ 13,838.00

#3

Continuous operation when system should be off rent and bypass no longer needed

Pump Rental Rate	$ 5,829.70	Weekly Rental Rate
Fuel Costs	$ 3,830.40	1008 gallons per week at $3.80/gallon (168 hours/week)(6 gallons/hour)
Pump Monitoring Labor	$ 7,729.92	128 hours per week at $60.39/hr (Mon-Sun 24 hrs/day)
Light Plant	$ 360.00	Weekly Rate
Fuels and Lubricants	$ 143.72	For Light Plant and vehicles
Daren Sumner	$ 354.38	7 hours per week at $90/hr
Tony Nash	$ 111.25	2 hours per week at $95/hr

Cost	Fringe + OH&P	Total
$ 18,359.37	$ 3,339.63	$ 21,699.00

ByPass Additional Cost Schedule

	17-Apr-13	18-Apr-13	19-Apr-13	20-Apr-13	21-Apr-13	22-Apr-13	23-Apr-13	24-Apr-13	25-Apr-13	26-Apr-13	27-Apr-13	28-Apr-13	29-Apr-13	30-Apr-13	1-May-13	2-May-13	3-May-13	4-May-13	5-May-13	6-May-13	7-May-13	-	19-May-13	20-May-13	21-May-13	22-May-13	23-May-13	-	8-Jul-13	9-Jul-13	-	25-Oct-13	Number of Weeks	Additional Costs
Crowder 24 hour continuous run as required to complete Contracted work.																																	1	$0.00
Scenario #1 - Pumps should have been on Standby Rate not being operated at all.																																	2	$ 38,610.29
Scenario #2 - Pumps should have been on rent being operated 8 hours/day five days a week																																	8	$ 114,657.71
Scenario #3 - System should be off rent.																																	15	$ 334,784.57

$488,052.57 PCO Total

PROPOSAL/ESTIMATE FOR CONTRACT MODIFICATION — Date: 24-Apr-13

Kimley-Horn & Associates 011494062

CONTRACT TITLE: Ellerbe Creek Aerial Sewer Crossing Replacement — CONTRACT NO: SRM-2EA

DESCRIPTION: Continuous By-Pass Pumping Weekly Costs (Scenario #1) — CROWDER QUOTATION NO:004a

PRIME CONTRACTOR'S WORK					Revisions/Comments
1. Direct Material			$144		
2. Sales Tax on Materials	7% of line 1	7.00%	$0		
3. Direct Labor			$415		
4. Insurance, Taxes, and Fringe Benefits	50.98% of line 3	50.98%	$212		
5. Rental Equipment			$378		
6. Sales Tax on Rental Equipment	7% of line 5	7.00%	$26		
7. Equipment Ownership and Operation Expenses			$51		
8. SUBTOTAL (add lines 1-7)				$1,225	
9. Field Overhead	0.00% of line 8	0.00%	$0		
10. SUBTOTAL (Add Lines 8&9)				$1,225	

Prime Remarks:

SUB-CONTRACTOR'S WORK	Name of Subcontractor			Revisions/Comments
11. Subcontractor 1	Abram Construction			
12. Subcontractor 2				
13. Subcontractor 3				
14. Subcontractor 4				
15. Subcontractor 5				
16. Total Subcontractor Amount from Breakdown			$13,931	

Sub's Remarks:

SUMMARY					Revisions/Comments
17. Prime Contractor's Work (from line 10)			$1,225		
18. Sub-contractor's Work (from line 16)			$13,931		
19. SUBTOTAL (add Lines 17 & 18)				$15,156	
20. Prime Overhead & Profit on Sub-contractor	10.00% of line 18	10.00%	$1,393		
21. Prime's Home Office Overhead & Profit	15.00% of line 17	15.00%	$184		
22. SUBTOTAL (add Lines 19-21)				$16,733	
23. Bond Premium	0.47% of line 22	0.47%	$79		
24. Builder's Risk Ins. Premium	0.48% of line 22	0.48%	$80		
25. Permits	As needed	0.00%	$0		
26. TOTAL COST (Add Lines 22-26)				$16,892	

Estimated time extension and justification:

Prime Contractor Name: Crowder Construction Company

Signature & Title of preparer: _____ DATE: 4/24/2013

Tony Nash, Project Manager

Breakdown of Direct Costs | Crowder Job No.: 61171 | Date: 24-Apr-13

Contract No: SRM-2EA | Quotation No: 004a

Item No.	Items of Work	QTY	UNIT	MATERIAL Unit Cost	MATERIAL Total Cost	LABOR Unit Cost	LABOR Total cost	R=1 O=0	EQUIPMENT Days	EQUIPMENT Rate	EQUIPMENT TOTALS Total	EQUIPMENT TOTALS Rented	EQUIPMENT TOTALS Owned	Sub-Contractors
A.	Prime Contractor													
	1 By-Pass Pumping Equipment Rental (Non-Standby Delta)		WK	$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$2,914.85
	2 Fuel (1008 gallons/week)		WK	$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$3,830.40
	3 After hours Pump Monitoring Labor ($60.39/Hr for 108 hrs)		WK	$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$6,522.12
	4 Light Plant		WK	$0.00	$0.00	$0.00	$0.00	1	1.00	$360.00	$360.00	$360.00	$0.00	$0.00
	5			$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	6			$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	7			$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	8			$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	9			$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	10			$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	11			$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	12			$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	13			$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	14			$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
B	1 Safety & Health	1	LS	$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	2 Project Vehicles	0	DY	$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	3 Per Diem - Meals & Lodging	0	DY	$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	4 Small Tools	1	LS	$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	5 Fuel & Lubricants (35% of equipment cost)	1	LS	$143.72	$143.72	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	6 As-Builts	0	HR	$0.00	$0.00	$35.20	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	7 Daily Clean Up	1	LS	$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	8 Warranty (5%)	1	LS	$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$18.00	$0.00	$663.37
C	1 Project Manager	2	HR	$0.00	$0.00	$50.00	$100.00	0	0.25	$45.00	$11.25	$0.00	$11.25	$0.00
	2 Project Electrical Manager	0	HR	$0.00	$0.00	$50.00	$0.00	0	0.00	$45.00	$0.00	$0.00	$0.00	$0.00
	3 Project Superintendent	7	HR	$0.00	$0.00	$45.00	$315.00	0	0.88	$45.00	$39.38	$0.00	$39.38	$0.00
	4 Project Electrical Superintendent	0	HR	$0.00	$0.00	$45.00	$0.00	0	0.00	$45.00	$0.00	$0.00	$0.00	$0.00
	5 Project Mechanical Engineer	0	HR	$0.00	$0.00	$35.20	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	6 Project Civil Engineer	0	HR	$0.00	$0.00	$35.20	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	7 Project Electrical Engineer	0	HR	$0.00	$0.00	$35.20	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	8 Project Safety Coordinator	0	HR	$0.00	$0.00	$35.20	$0.00	0	0.00	$45.00	$0.00	$0.00	$0.00	$0.00
	9 Project Co-Op Engineer	0	HR	$0.00	$0.00	$20.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	10 Project Admn	0	HR	$0.00	$0.00	$25.50	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	11 Quality Control Officer	0	HR	$0.00	$0.00	$35.20	$0.00	0	0.00	$45.00	$0.00	$0.00	$0.00	$0.00
	12 Surveyor	0	HR	$0.00	$0.00	$35.00	$0.00	0	0.00	$45.00	$0.00	$0.00	$0.00	$0.00
	Totals:				**$143.72**		**$415.00**				**$410.63**	**$378.00**	**$50.63**	**$13,930.74**

PROPOSAL/ESTIMATE FOR CONTRACT MODIFICATION — Date: 24-Apr-13

Kimley-Horn & Associates 011494062

CONTRACT TITLE: Ellerbe Creek Aerial Sewer Crossing Replacement — CONTRACT NO: SRM-2EA

DESCRIPTION: Continuous By-Pass Pumping Weekly Costs (Scenario #2) — CROWDER QUOTATION NO:004

PRIME CONTRACTOR'S WORK					Revisions/Comments
1. Direct Material			$144		
2. Sales Tax on Materials	7% of line 1	7.00%	$0		
3. Direct Labor			$415		
4. Insurance, Taxes, and Fringe Benefits	50.98% of line 3	50.98%	$212		
5. Rental Equipment			$378		
6. Sales Tax on Rental Equipment	7% of line 5	7.00%	$26		
7. Equipment Ownership and Operation Expenses			$51		
8. SUBTOTAL (add lines 1-7)				$1,225	
9. Field Overhead	0.00% of line 8	0.00%	$0		
10. SUBTOTAL (Add Lines 8&9)				$1,225	

Prime Remarks:

SUB-CONTRACTOR'S WORK	Name of Subcontractor			Revisions/Comments
11. Subcontractor 1	Abram Construction			
12. Subcontractor 2				
13. Subcontractor 3				
14. Subcontractor 4				
15. Subcontractor 5				
16. Total Subcontractor Amount from Breakdown			$11,181	

Sub's Remarks:

SUMMARY					Revisions/Comments
17. Prime Contractor's Work (from line 10)			$1,225		
18. Sub-contractor's Work (from line 16)			$11,181		
19. SUBTOTAL (add Lines 17 & 18)				$12,406	
20. Prime Overhead & Profit on Sub-contractor	10.00% of line 18	10.00%	$1,118		
21. Prime's Home Office Overhead & Profit	15.00% of line 17	15.00%	$184		
22. SUBTOTAL (add Lines 19-21)				$13,708	
23. Bond Premium	0.47% of line 22	0.47%	$64		
24. Builder's Risk Ins. Premium	0.48% of line 22	0.48%	$66		
25. Permits	As needed	0.00%	$0		
26. TOTAL COST (Add Lines 22-26)				$13,838	

Estimated time extension and justification:

Prime Contractor Name: Crowder Construction Company

Signature & Title of preparer: Tony Nash, Project Manager — DATE: 4/24/2013

Breakdown of Direct Costs

Crowder Job No.: 61171

Date: 24-Apr-13

Contract No: SRM-2EA

Quotation No: 004

Item No.	Items of Work	QTY	UNIT	MATERIAL Unit Cost	MATERIAL Total Cost	LABOR Unit Cost	LABOR Total cost	R=1 O=0	EQUIPMENT Days	EQUIPMENT Rate	EQUIPMENT TOTALS Total	EQUIPMENT TOTALS Rented	EQUIPMENT TOTALS Owned	Sub-Contractors
A.	Prime Contractor													
	1 Fuel After Hours (6 gallons an hour for 128 hours)		WK	$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$2,918.40
	2 After Hours Pump Monitoring Labor (128 hours @ $60.39/hr		WK	$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$7,729.92
	3 Light Plant		WK	$0.00	$0.00	$0.00	$0.00	1	1.00	$360.00	$360.00	$360.00	$0.00	$0.00
	4			$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	5			$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	6			$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	7			$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	8			$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	9			$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	10			$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	11			$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	12			$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	13			$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
B	1 Safety & Health	1	LS	$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	2 Project Vehicles	0	DY	$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	3 Per Diem - Meals & Lodging	0	DY	$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	4 Small Tools	1	LS	$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	5 Fuel & Lubricants (35% of equipment cost)	1	LS	$143.72	$143.72	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	6 As-Builts	0	HR	$0.00	$0.00	$35.20	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	7 Daily Clean Up	1	LS	$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	8 Warranty (5%)	1	LS	$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$18.00	$0.00	$532.42
C	1 Project Manager	2	HR	$0.00	$0.00	$50.00	$100.00	0	0.25	$45.00	$11.25	$0.00	$11.25	$0.00
	2 Project Electrical Manager	0	HR	$0.00	$0.00	$50.00	$0.00	0	0.00	$45.00	$0.00	$0.00	$0.00	$0.00
	3 Project Superintendent	7	HR	$0.00	$0.00	$45.00	$315.00	0	0.88	$45.00	$39.38	$0.00	$39.38	$0.00
	4 Project Electrical Superintendent	0	HR	$0.00	$0.00	$45.00	$0.00	0	0.00	$45.00	$0.00	$0.00	$0.00	$0.00
	5 Project Mechanical Engineer	0	HR	$0.00	$0.00	$35.20	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	6 Project Civil Engineer	0	HR	$0.00	$0.00	$35.20	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	7 Project Electrical Engineer	0	HR	$0.00	$0.00	$35.20	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	8 Project Safety Coordinator	0	HR	$0.00	$0.00	$35.20	$0.00	0	0.00	$45.00	$0.00	$0.00	$0.00	$0.00
	9 Project Co-Op Engineer	0	HR	$0.00	$0.00	$20.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	10 Project Admn	0	HR	$0.00	$0.00	$25.50	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	11 Quality Control Officer	0	HR	$0.00	$0.00	$35.20	$0.00	0	0.00	$45.00	$0.00	$0.00	$0.00	$0.00
	12 Surveyor	0	HR	$0.00	$0.00	$35.00	$0.00	0	0.00	$45.00	$0.00	$0.00	$0.00	$0.00
	Totals:				**$143.72**		**$415.00**				**$410.63**	**$378.00**	**$50.63**	**$11,180.74**

PROPOSAL/ESTIMATE FOR CONTRACT MODIFICATION — Date: 24-Apr-13

Kimley-Horn & Associates 011494062

CONTRACT TITLE: Ellerbe Creek Aerial Sewer Crossing Replacement — CONTRACT NO: SRM-2EA

DESCRIPTION: Continuous By-Pass Pumping Weekly Costs (Scenario #3) — CROWDER QUOTATION NO:004a

PRIME CONTRACTOR'S WORK					Revisions/Comments
1. Direct Material			$144		
2. Sales Tax on Materials	7% of line 1	7.00%	$0		
3. Direct Labor			$415		
4. Insurance, Taxes, and Fringe Benefits	50.98% of line 3	50.98%	$212		
5. Rental Equipment			$378		
6. Sales Tax on Rental Equipment	7% of line 5	7.00%	$26		
7. Equipment Ownership and Operation Expenses			$51		
8. SUBTOTAL (add lines 1-7)				$1,225	
9. Field Overhead	0.00% of line 8	0.00%	$0		
10. SUBTOTAL (Add Lines 8&9)				$1,225	

Prime Remarks:

SUB-CONTRACTOR'S WORK	Name of Subcontractor		Revisions/Comments
11. Subcontractor 1	Abram Construction		
12. Subcontractor 2			
13. Subcontractor 3			
14. Subcontractor 4			
15. Subcontractor 5			
16. Total Subcontractor Amount from Breakdown		$18,260	

Sub's Remarks:

SUMMARY					Revisions/Comments
17. Prime Contractor's Work (from line 10)			$1,225		
18. Sub-contractor's Work (from line 16)			$18,260		
19. SUBTOTAL (add Lines 17 & 18)				$19,485	
20. Prime Overhead & Profit on Sub-contractor	10.00% of line 18	10.00%	$1,826		
21. Prime's Home Office Overhead & Profit	15.00% of line 17	15.00%	$184		
22. SUBTOTAL (add Lines 19-21)				$21,495	
23. Bond Premium	0.47% of line 22	0.47%	$101		
24. Builder's Risk Ins. Premium	0.48% of line 22	0.48%	$103		
25. Permits	As needed	0.00%	$0		
26. TOTAL COST (Add Lines 22-26)				$21,699	

Estimated time extension and justification:

Prime Contractor Name: Crowder Construction Company

Signature & Title of preparer: _____ DATE: 4/24/2013

Tony Nash, Project Manager

Breakdown of Direct Costs

Crowder Job No.: 61171

Date: 24-Apr-13

Contract No: SRM-2EA

Quotation No: 004a

Item No.	Items of Work	QTY	UNIT	MATERIAL Unit Cost	MATERIAL Total Cost	LABOR Unit Cost	LABOR Total cost	R=1 O=0	EQUIPMENT Days	EQUIPMENT Rate	EQUIPMENT TOTALS Total	EQUIPMENT TOTALS Rented	EQUIPMENT TOTALS Owned	Sub-Contractors
A.	Prime Contractor													
	1 By-Pass Pumping Equipment Rental		WK	$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$5,829.70
	2 Fuel (1008 gallons/week)		WK	$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$3,830.40
	3 After hours Pump Monitoring Labor ($60.39/Hr for 128 hrs)		WK	$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$7,729.92
	4 Light Plant		WK	$0.00	$0.00	$0.00	$0.00	1	1.00	$360.00	$360.00	$360.00	$0.00	$0.00
	5			$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	6			$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	7			$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	8			$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	9			$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	10			$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	11			$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	12			$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	13			$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	14			$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
B	1 Safety & Health	1	LS	$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	2 Project Vehicles	0	DY	$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	3 Per Diem - Meals & Lodging	0	DY	$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	4 Small Tools	1	LS	$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	5 Fuel & Lubricants (35% of equipment cost)	1	LS	$143.72	$143.72	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	6 As-Builts	0	HR	$0.00	$0.00	$35.20	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	7 Daily Clean Up	1	LS	$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	8 Warranty (5%)	1	LS	$0.00	$0.00	$0.00	$0.00	0	0.00	$0.00	$0.00	$18.00	$0.00	$869.50
C	1 Project Manager	2	HR	$0.00	$0.00	$50.00	$100.00	0	0.25	$45.00	$11.25	$0.00	$11.25	$0.00
	2 Project Electrical Manager	0	HR	$0.00	$0.00	$50.00	$0.00	0	0.00	$45.00	$0.00	$0.00	$0.00	$0.00
	3 Project Superintendent	7	HR	$0.00	$0.00	$45.00	$315.00	0	0.88	$45.00	$39.38	$0.00	$39.38	$0.00
	4 Project Electrical Superintendent	0	HR	$0.00	$0.00	$45.00	$0.00	0	0.00	$45.00	$0.00	$0.00	$0.00	$0.00
	5 Project Mechanical Engineer	0	HR	$0.00	$0.00	$35.20	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	6 Project Civil Engineer	0	HR	$0.00	$0.00	$35.20	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	7 Project Electrical Engineer	0	HR	$0.00	$0.00	$35.20	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	8 Project Safety Coordinator	0	HR	$0.00	$0.00	$35.20	$0.00	0	0.00	$45.00	$0.00	$0.00	$0.00	$0.00
	9 Project Co-Op Engineer	0	HR	$0.00	$0.00	$20.00	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	10 Project Admn	0	HR	$0.00	$0.00	$25.50	$0.00	0	0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	11 Quality Control Officer	0	HR	$0.00	$0.00	$35.20	$0.00	0	0.00	$45.00	$0.00	$0.00	$0.00	$0.00
	12 Surveyor	0	HR	$0.00	$0.00	$35.00	$0.00	0	0.00	$45.00	$0.00	$0.00	$0.00	$0.00
	Totals:				**$143.72**		**$415.00**				**$410.63**	**$378.00**	**$50.63**	**$18,259.52**

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CROWDER CONSTRUCTION COMPANY
HEAVY CIVIL DIVISION

May 7, 2013

Kimley-Horn and Associates, Inc.
PO Box 33068
Raleigh, NC 27636-3068

Attn: Mr. Kevin Carter, P.E.

Ref: Ellerbe Creek Aerial Sewer Crossing Replacement
Kimley-Horn Project No. 011494062

Subject: Bypass Pumping Creek Crossing

Mr. Carter:

Due to unforeseeable circumstances regarding the condition of the existing interceptor lines, the temporary bypass system installed per the Contract is now being operated 24 hours a day seven days a week as directed by the City of Durham and Kimley-Horn. During a high water event that occurred on May 6, 2013 the bypass system discharge pipe creek crossing was submerged for a period of time in the highly turbid waters of Ellerbe Creek.

This occurrence brought to light a concern that due to the unusable state of the existing 30" lines the option of using the lines during high water and high risk events no longer exists. As originally required and installed the system would only be operated as needed during the construction process as required by the Contract Documents. Originally the existing 30" interceptor lines would be available for use as needed for flow maintenance during high risk events such as the one witnessed or in the event of system failure. The inability to use the existing lines as an alternate means of flow maintenance or "plan B" if you will, is a risk that needs to be addressed and one that Crowder cannot be responsible for.

Due to the change in scope, the operational requirements of the system and the unknown amount of time the system will be required to operate as such; it is of Crowder's opinion that the discharge pipe creek crossing be raised to some elevation that mitigates any risks associated with future high water events. The redundancy of the system may also need to be reevaluated in order to mitigate system failure risks as now the system is the sole means of waste water conveyance to the City's treatment facility.

At this time Crowder intends to operate the system as installed and directed by the City of Durham and Kimley-Horn. It is also our intention to continue micro pile installation in an attempt to complete the pile cap installation, backfilling and stream bank protection as Contracted to mitigate any risks associated with stream bank and existing structure washout and undermining. Please review this concern and expedite direction of modification as given the current weather cycle this is a time critical issue.

If further discussion is required feel free to contact us directly.

Sincerely,
Crowder Construction Company

Tony Nash
Project Manager

Cc: George Ellis, CCC