



CROWDER CONSTRUCTION COMPANY

HEAVY CIVIL DIVISION

May 30, 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 004 Interceptor Replacement

Mr. Carter:

As requested please find attached PCO 004 regarding the replacement of the dual interceptors for your review. Included in this proposal are all labor, material, equipment and subcontractor costs associated with the demolition of the existing dual 30" interceptors, pipe supports, junction box, manhole, 42" interceptor to manhole top 293.50' and construction/installation of the new junction box, 42" interceptor and manholes on east side of Ellerbe creek.

This proposal specifically excludes the following:

- Vacuum testing of manholes & DIP (we propose a visual head test be performed from manhole to manhole)
- Geotechnical and materials testing
- Soil remediation
- Imported fill material
- Weather delays
- Bypass pumping operation (included in PCO 005)
- Existing manhole rehab on east side of Ellerbe Creek
- CIPP lining (credit included)
- Removal and demolition of buried construction material unearthed during work performed in this scope of work
- Permitting
- Hazardous materials abatement
- Any revisions made or information provided after 5/30/13

We request that a firm lump sum Change Order be issued in the amount of \$646,227.00 as outlined for the additional work as detailed by the revised drawings provided by Kimley-Horn and the specifics as detailed here-in. We are also requesting that a Contract time extension of 80 days be included in this Change Order.

Crowder trusts that this proposal meets your approval and that a formal change order will be issued in the near future. Acceptance of this proposal is requested by 5/30/13. 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

A handwritten signature in black ink, appearing to read "Tony Nash". The signature is fluid and cursive, with the first name "Tony" and last name "Nash" clearly distinguishable.

Tony Nash
Project Manager

Cc: Crowder Quote 004 File

PROPOSAL/ESTIMATE FOR CONTRACT MODIFICATION

Date: 30-May-13

Kimley-Horn & Associates 011494062

CONTRACT TITLE: Ellerbe Creek Aerial Sewer Crossing Replacement

CONTRACT NO: SRM-2EA

DESCRIPTION: Ellerbe Creek Interceptor Replacement & Redesign

CROWDER QUOTATION NO:005

PRIME CONTRACTOR'S WORK				Revisions/Comments
1. Direct Material			\$241,417	
2. Sales Tax on Materials	7% of line 1	0.00%	\$0	Tax Included in Material Costs
3. Direct Labor			\$134,618	
4. Insurance, Taxes, and Fringe Benefits	50.98% of line 3	50.98%	\$68,628	
5. Rental Equipment			\$162,420	
6. Sales Tax on Rental Equipment	7% of line 5	0.00%	\$0	Tax Included In Equipment Costs
7. Equipment Ownership and Operation Expenses			\$0	
8. SUBTOTAL (add lines 1-7)			\$607,083	
9. Field Overhead	0.00% of line 8	0.00%	\$0	
10. SUBTOTAL (Add Lines 8&9)			\$607,083	

Prime Remarks:

SUB-CONTRACTOR'S WORK		Name of Subcontractor	Revisions/Comments
11. Subcontractor 1		Insituform	-\$120,842.80
12. Subcontractor 2		CES	
13. Subcontractor 3		Tarheel Landscaping	
14. Subcontractor 4		CMT	-\$4,000.00
15. Subcontractor 5		Frye Fence	
16. Subcontractor 6		Mayo Transport	
17. Total Subcontractor Amount from Breakdown		\$63,015	-\$124,842.80

Sub's Remarks:

SUMMARY				Revisions/Comments
18. Prime Contractor's Work (from line 10)			\$607,083	
19. Sub-contractor's Work (from line 16)			\$63,015	
20. SUBTOTAL (add Lines 17 & 18)			\$670,098	
21. Prime Overhead & Profit on Sub-contractor	10.00% of line 18	10.00%	\$6,302	
22. Prime's Home Office Overhead & Profit	15.00% of line 17	15.00%	\$91,062	
23. SUBTOTAL (add Lines 19-21)			\$767,462	
24. Bond Premium	0.47% of line 22	0.47%	\$3,607	
25. Builder's Risk Ins. Premium	0.48% of line 22		\$0	
26. Permits	As needed	0.00%	\$0	
27. Total Credits			(\$124,843)	Credits for Proposed Scope Deletion
28. TOTAL COST (Add Lines 22-29)			\$646,227	

Estimated time extension and justification: A Contract time extension of 80 days is being requested as part of this proposal.

Prime Contractor Name: Crowder Construction Company

Signature & Title of preparer: 
Tony Nash, Project Manager

DATE: 5/30/2013

Item No.	Items of Work	QTY	UNIT	MATERIAL		LABOR		EQUIPMENT			EQUIPMENT TOTALS			Sub-Contractors
				Unit Cost	Total Cost	Unit Cost	Total cost	R=1 O=0	Days	Rate	Total	Rented	Owned	
A	Prime Contractor													
1	Carpenter	1792	HR	\$0.00	\$0.00	\$16.75	\$30,016.00	0	0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2	Crane Operator	335	HR	\$0.00	\$0.00	\$25.00	\$8,375.00	0	0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3	Equipment Operator	815	HR	\$0.00	\$0.00	\$17.00	\$13,855.00	0	0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4	Foreman	668	HR	\$0.00	\$0.00	\$30.00	\$20,040.00	0	0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	Subcontractor	1	LS	\$0.00	\$0.00	\$0.00	\$0.00	0	0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$63,015.00
6	Material	1	LS	\$229,921.00	\$229,921.00	\$0.00	\$0.00	0	0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	Equipment	1	LS	\$0.00	\$0.00	\$0.00	\$0.00	1	1.00	\$162,420.00	\$162,420.00	\$162,420.00	\$162,420.00	\$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	1	LS	\$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	1	LS	\$0.00	\$0.00	\$0.00	\$0.00	0	0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6	As-Builts	40	HR	\$0.00	\$0.00	\$35.20	\$1,408.00	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	-	0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	Warranty (5%)	1	LS	\$11,496.05	\$11,496.05	\$0.00	\$0.00	0	0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
C	1 Project Manager	520	HR	\$0.00	\$0.00	\$50.00	\$26,000.00	0	0.00	\$45.00	\$0.00	\$0.00	\$0.00	\$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	480	HR	\$0.00	\$0.00	\$45.00	\$21,600.00	0	0.00	\$45.00	\$0.00	\$0.00	\$0.00	\$0.00
4	Project General Superintendent	80	HR	\$0.00	\$0.00	\$50.00	\$4,000.00	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	40	HR	\$0.00	\$0.00	\$35.20	\$1,408.00	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	80	HR	\$0.00	\$0.00	\$35.20	\$2,816.00	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 Admin	200	HR	\$0.00	\$0.00	\$25.50	\$5,100.00	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:					\$241,417.05		\$134,618.00				\$162,420.00	\$162,420.00	\$0.00	\$63,015.00

Cost Report

Activity Resource	Desc	Pcs	Quantity Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub-Contract	Total
BID ITEM = 10										
Description = Mobilization			Unit =	LS	Takeoff Quan:		1.000	Engr Quan:		1.000
10A Crane Mobilization Quan: 1.00 LS Hrs/Shift: 8.00 Cal: 40 WC: NONE										
PILE	Pile Driving		20.00 CH	Prod: 20.0000	CH	Lab Pcs:	4.00	Eqp Pcs:		2.00
8EQUIPDEL	Large Equipment Delive		42.00 EA	500.000				21,000		21,000
8LS238	Linkbelt 238	1.00	20.00 HR	128.500				2,570		2,570
8PUTRUCK	Pickup Truck	1.00	20.00 HR	7.250				145		145
CARP	Carpenter	2.00	40.00 MH	16.750	1,012					1,012
FOREMAN	Foreman	1.00	20.00 MH	30.000	906					906
OPERCRA	Crane Operator	1.00	20.00 MH	25.000	755					755
\$26,387.35	80.0000 MH/LS		80.00 MH	[1770]	2,672			23,715		26,387
10B Access Cleanup Quan: 1.00 LS Hrs/Shift: 8.00 Cal: 40 WC: NONE										
EXCAV	Excavation Crew		8.00 CH	Prod: 8.0000	CH	Lab Pcs:	4.00	Eqp Pcs:		3.00
8D4	D4 Dozer	1.00	8.00 HR	31.250				268		268
8EX330	330 Excavator	1.00	8.00 HR	76.830				658		658
8PUTRUCK	Pickup Truck	1.00	8.00 HR	7.250				58		58
CARP	Carpenter	1.00	8.00 MH	16.750	202					202
FOREMAN	Foreman	1.00	8.00 MH	30.000	362					362
OPEREQUIP	Equipment Operator	2.00	16.00 MH	17.000	411					411
\$1,958.49	32.0000 MH/LS		32.00 MH	[646]	975			983		1,958
10C Surveying Quan: 1.00 LS Hrs/Shift: 8.00 Cal: 40 WC: NONE										
4SURVEY	Survey Sub		1.00 LS	2,300.000					2,300	2,300
10D Estimating Quan: 1.00 LS Hrs/Shift: 9.00 Cal: 45 WC: NONE										
8PUTRUCK	==> Pickup Truck		40.00 HR	7.250				290		290
PE	==> Project Engineer		1.00 WK	1,300.000	1,963					1,963
PM	==> Project Manager		1.00 WK	2,100.000	3,171					3,171
\$5,423.32				[]	5,133			290		5,423
====> Item Totals: 10 - Mobilization										
\$36,069.16	112.0000 MH/LS		112.00 MH	[2416]	8,781			24,988	2,300	36,069
36,069.160	1 LS				8,781.00			24,988.16	2,300.00	36,069.16

BID ITEM = 20										
Description = Concrete			Unit =	LS	Takeoff Quan:		1.000	Engr Quan:		1.000
30A Concrete Material Quan: 122.00 CY Hrs/Shift: 8.00 Cal: 40 WC: NONE										
21SUPERP	Super Plasticizer		20.00 CY	4.500		90				**Unreviewed 90
2CONC4500	4500 psi concrete		101.00 CY	88.000	8,888					8,888
2CONC4500W	4500 psi concrete waste		10.00 CY	88.000	880					880
2CONCCLSB	Class B concrete		21.00 CY	82.000	1,722					1,722
\$11,580.00				[]	11,580					11,580
30B Rebar Quan: 16.00 TON Hrs/Shift: 8.00 Cal: 40 WC: NONE										
One Crew can unload 5 tons of steel per hour										
FORM	Forming Crew		47.00 CH	Prod: 0.3404	UH	Lab Pcs:	5.00	Eqp Pcs:		1.00
21REBARACCES	Rebar Accessories		1.00 LS	250.000	250					250
2REBARB	Black Rebar		16.00 TON	900.000	14,400					14,400

Cost Report

Activity Resource	Desc	Pcs	Quantity Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub-Contract	Total
BID ITEM = 20										
Description =	Concrete		Unit = LS	Takeoff Quan:			1.000	Engr Quan:		1.000
4REBAR	Rebar Sub		16.00 TON	400.000					6,400	6,400
8PUTRUCK	Pickup Truck	1.00	47.00 HR	7.250				341		341
CARP	Carpenter	4.00	188.00 MH	16.750	4,754					4,754
FOREMAN	Foreman	1.00	47.00 MH	30.000	2,129					2,129
\$28,273.93	14.6875 MH/TON		235.00 MH	[284.938]	6,883	14,650		341	6,400	28,274
30C Edge Formwork Quan: 745.00 SF Hrs/Shift: 8.00 Cal: 40 WC: NONE										
FORM	Forming Crew		50.00 CH	Prod: 2.9800 UM	Lab Pcs: 5.00			Eqp Pcs: 1.00		1.00
3FH00	Forms@107%		745.00 SF	1.000	797					797
8PUTRUCK	Pickup Truck	1.00	50.00 HR	7.250				363		363
CARP	Carpenter	4.00	200.00 MH	16.750	5,058					5,058
FOREMAN	Foreman	1.00	50.00 MH	30.000	2,265					2,265
\$8,482.18	0.3355 MH/SF		250.00 MH	[6.51]	7,323			797	363	8,482
30D Place and Finish Slab Concrete Quan: 1,350.00 SF Hrs/Shift: 8.00 Cal: 40 WC: NONE										
335 cy = .78 cy/mh **Unreviewed										
FORM	Forming Crew		21.00 CH	Prod: 12.8571 UM	Lab Pcs: 5.00			Eqp Pcs: 1.00		1.00
8PUTRUCK	Pickup Truck	1.00	21.00 HR	7.250				152		152
CARP	Carpenter	4.00	84.00 MH	16.750	2,124					2,124
FOREMAN	Foreman	1.00	21.00 MH	30.000	951					951
\$3,227.71	0.0777 MH/SF		105.00 MH	[1.509]	3,075			152		3,228
30E Wall Formwork Quan: 2,315.00 SF Hrs/Shift: 8.00 Cal: 40 WC: NONE										
FORM	Forming Crew		80.00 CH	Prod: 5.7875 UM	Lab Pcs: 5.00			Eqp Pcs: 1.00		1.00
3FH00	Forms@107%		2,315.00 SF	1.500	3,716					3,716
3FORMPURCH	Form purchase@107%		0.01 LS	1,000.000				11		11
8PUTRUCK	Pickup Truck	1.00	80.00 HR	7.250				580		580
CARP	Carpenter	4.00	320.00 MH	16.750	8,093					8,093
FOREMAN	Foreman	1.00	80.00 MH	30.000	3,624					3,624
\$16,022.33	0.1727 MH/SF		400.00 MH	[3.352]	11,716			3,726	580	16,022
30F Place Wall Concrete Quan: 48.00 CY Hrs/Shift: 8.00 Cal: 40 WC: NONE										
FORM	Forming Crew		15.00 CH	Prod: 0.6400 UM	Lab Pcs: 5.00			Eqp Pcs: 1.00		1.00
8PUTRUCK	Pickup Truck	1.00	15.00 HR	7.250				109		109
CARP	Carpenter	4.00	60.00 MH	16.750	1,517					1,517
FOREMAN	Foreman	1.00	15.00 MH	30.000	679					679
\$2,305.51	1.5625 MH/CY		75.00 MH	[30.313]	2,197			109		2,306
30G Bulkhead Formwork Quan: 60.00 SF Hrs/Shift: 8.00 Cal: 40 WC: NONE										
FORM	Forming Crew		4.00 CH	Prod: 3.0000 UM	Lab Pcs: 5.00			Eqp Pcs: 1.00		1.00
31LUMBER	Form Lumber@107%		60.00 SF	0.750	48					48
8PUTRUCK	Pickup Truck	1.00	4.00 HR	7.250				29		29
CARP	Carpenter	4.00	16.00 MH	16.750	405					405
FOREMAN	Foreman	1.00	4.00 MH	30.000	181					181
\$662.96	0.3333 MH/SF		20.00 MH	[6.467]	586			48	29	663
30H Shoring for Suspend Slab Quan: 300.00 SF Hrs/Shift: 8.00 Cal: 40 WC: NONE										
FORM	Forming Crew		20.00 CH	Prod: 3.0000 UM	Lab Pcs: 5.00			Eqp Pcs: 1.00		1.00
3FH00	Forms@107%		300.00 SF	1.000	321					321
8PUTRUCK	Pickup Truck	1.00	20.00 HR	7.250				145		145
CARP	Carpenter	4.00	80.00 MH	16.750	2,023					2,023
FOREMAN	Foreman	1.00	20.00 MH	30.000	906					906
\$3,395.01	0.3333 MH/SF		100.00 MH	[6.467]	2,929			321	145	3,395

Cost Report

Activity	Desc	Quantity	Unit	Unit Cost	Perm Labor	Constr Material	Equip Matl/Exp	Sub-Ment Contract	Total	
BID ITEM = 20										
Description =	Concrete		Unit =	LS	Takeoff Quan:	1.000	Engr Quan:		1.000	
30J	Curing and Concrete Access				Quan:	1,350.00 SF	Hrs/Shift:	8.00	Cal: 40	WC: NONE
<u>FORM</u>	Forming Crew		2.00 CH	Prod:	135.0000 UM	Lab Pcs:	5.00	Eqp Pcs:	1.00	**Unreviewed
31BURLAP	Burlap Fabric@107%	204.54 SF		0.050		11			11	
31CHAMFER	Chamfer@107%	486.31 LF		0.120		62			62	
31CURE	Cure & Protect Su@107%	1,350.00 SF		0.100		144			144	
31FORMOIL	Form Oil@107%	2.80 GAL		6.000		18			18	
8PUTRUCK	Pickup Truck	1.00	2.00 HR	7.250			15		15	
CARP	Carpenter	4.00	8.00 MH	16.750	202				202	
FOREMAN	Foreman	1.00	2.00 MH	30.000	91				91	
\$543.21	0.0074 MH/SF	10.00 MH		[0.144]	293	236	15		543	
30K	Point and Patch Walls				Quan:	2,315.00 SF	Hrs/Shift:	8.00	Cal: 40	WC: NONE
<u>FORM</u>	Forming Crew		8.00 CH	Prod:	57.8750 UM	Lab Pcs:	5.00	Eqp Pcs:	1.00	**Unreviewed
31POINT	Point & Patch Sup@107%	2,315.00 SF		0.050		124			124	
8PUTRUCK	Pickup Truck	1.00	8.00 HR	7.250			58		58	
CARP	Carpenter	4.00	32.00 MH	16.750	809				809	
FOREMAN	Foreman	1.00	8.00 MH	30.000	362				362	
\$1,353.45	0.0172 MH/SF	40.00 MH		[0.335]	1,172	124	58		1,353	
30N	Waterstop				Quan:	170.00 LF	Hrs/Shift:	8.00	Cal: 40	WC: NONE
750 lf inc 20% waste										**Unreviewed
<u>FORM</u>	Forming Crew		4.00 CH	Prod:	8.5000 UM	Lab Pcs:	5.00	Eqp Pcs:	1.00	**Unreviewed
2SYNK	SnykaFlex waterstop	170.00 LF		2.500		425			425	
8PUTRUCK	Pickup Truck	1.00	4.00 HR	7.250			29		29	
CARP	Carpenter	4.00	16.00 MH	16.750	405				405	
FOREMAN	Foreman	1.00	4.00 MH	30.000	181				181	
\$1,039.81	0.1176 MH/LF	20.00 MH		[2.282]	586	425	29		1,040	
30R	Rubbing				Quan:	2,615.00	Hrs/Shift:	8.00	Cal: 40	WC: NONE
<u>EROS</u>	Erosion Control		34.99 CH	Prod:	24.9048 UM	Lab Pcs:	3.00	Eqp Pcs:	2.00	**Unreviewed
2RUB	Rubbing supplies	2,615.00 SF		1.000		2,615			2,615	
8CAT420	Cat 420 Backhoe	1.00	35.00 HR	9.650			361		361	
8PUTRUCK	Pickup Truck	1.00	35.00 HR	7.250			254		254	
CARP	Carpenter	1.00	35.00 MH	16.750	885				885	
FOREMAN	Foreman	1.00	35.00 MH	30.000	1,585				1,585	
OPEREQUIP	Equipment Operator	1.00	35.00 MH	17.000	898				898	
\$6,598.88	0.0401 MH/L	105.00 MH		[0.853]	3,369	2,615	615		6,599	
30S	Equipment Support				Quan:	1.00 LS	Hrs/Shift:	8.00	Cal: 40	WC: NONE
<u>EXCAV</u>	Excavation Crew		200.00 CH	Prod:	200.0000 CH	Lab Pcs:	1.00	Eqp Pcs:	1.00	**Unreviewed
8EX330	330 Excavator	1.00	200.00 HR	76.830			16,442		16,442	
OPEREQUIP	Equipment Operator	1.00	200.00 MH	17.000	5,133				5,133	
\$21,574.94	200.0000 MH/LS	200.00 MH		[3400]	5,133		16,442		21,575	
30M	Embeds				Quan:	1.00 LS	Hrs/Shift:	8.00	Cal: 40	WC: NONE
misc embeds	includes vent pipes, manhole ring and cover, pipe sleeves									**Unreviewed
<u>FORM</u>	Forming Crew		27.00 CH	Prod:	27.0000 CH	Lab Pcs:	5.00	Eqp Pcs:	1.00	**Unreviewed
2MISCMBED	Misc embeds	1.00	1.00 LS	23,000.000		23,000			23,000	
8PUTRUCK	Pickup Truck	1.00	27.00 HR	7.250			196		196	
CARP	Carpenter	4.00	108.00 MH	16.750	2,731				2,731	
FOREMAN	Foreman	1.00	27.00 MH	30.000	1,223				1,223	
\$27,149.92	135.0000 MH/LS	135.00 MH		[2619]	3,954	23,000	196		27,150	

Cost Report

Activity Resource	Desc	Quantity Pcs	Unit	Unit Cost	Labor	Perm Material	Constr Mat/Exp	Equip Ment	Sub-Contract	Total
BID ITEM = 20										
Description = Concrete			Unit =	LS	Takeoff Quan:		1.000	Engr Quan:		1.000
====> Item Totals: 20 - Concrete										
\$132,209.84	1,695.0000 MH/LS		1,695.00 MH	[32597.25]	49,215	52,270	5,252	19,072	6,400	132,210
132,209.840	1 LS				49,215.34	52,270.00	5,252.24	19,072.26	6,400.00	132,209.84

BID ITEM = 30										
Description = Sitework			Unit =	LS	Takeoff Quan:		1.000	Engr Quan:		1.000

30A Fence Rework Quan: 1.00 LS Hrs/Shift: 8.00 Cal: 40 WC: NONE

4FENCE	Fencing Sub		1.00 LS		1,100.000				1,100	1,100
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30C Seeding and Repairation Quan: 1.00 LS Hrs/Shift: 8.00 Cal: 40 WC: NONE

4SEED	Seeding Subcontractor		1.00 LS		2,500.000				2,500	2,500
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30D Manhole Installation Quan: 1.00 LS Hrs/Shift: 8.00 Cal: 40 WC: NONE

EXCAV	Excavation Crew		45.00 CH		Prod: 45.0000 CH		Lab Pcs: 5.00		Eqp Pcs: 4.00	
2MANHOLE	Manholes		2.00 EA		4,245.500		8,491			8,491
4CLEANUP	Clean Up		1.00 LS		2,500.000				2,500	2,500
4COAT	Coating		1.00 LS		20,565.000				20,565	20,565
532	#57 Stone, Bedding		7.00 TON		14.500		102			102
8D4	D4 Dozer	1.00	45.00 HR		31.250			1,505		1,505
8EX330	330 Excavator	1.00	45.00 HR		76.830			3,699		3,699
8LS238	Linkbelt 238	1.00	45.00 HR		128.500			5,783		5,783
8PUTRUCK	Pickup Truck	1.00	45.00 HR		7.250			326		326
CARP	Carpenter	1.00	45.00 MH		16.750	1,138				1,138
FOREMAN	Foreman	1.00	45.00 MH		30.000	2,038				2,038
OPERCRAVE	Crane Operator	1.00	45.00 MH		25.000	1,699				1,699
OPEREQUIP	Equipment Operator	2.00	90.00 MH		17.000	2,310				2,310
\$50,155.05	225.0000 MH/LS		225.00 MH		[4758.75]	7,185	8,491	102	11,313	23,065

30F Pipe & Manhole Demolition Quan: 1.00 LS Hrs/Shift: 8.00 Cal: 40 WC: NONE

PIPE	Pipe Laying Crew		180.00 CH		Prod: 180.0000 CH		Lab Pcs: 6.00		Eqp Pcs: 6.00	
4DUMP	Disposal Fee		30.00 LD		65.000				1,950	1,950
4HAUL	HAULING SUB		80.00 HR		75.000				6,000	6,000
8EX330	330 Excavator	1.00	180.00 HR		76.830			14,797		14,797
8HOERAM	Hydraulic Ram	1.00	180.00 HR		131.580			25,342		25,342
8LS238	Linkbelt 238	1.00	180.00 HR		128.500			23,130		23,130
8PUTRUCK	Pickup Truck	1.00	180.00 HR		7.250			1,305		1,305
8RAMMEX	Walk Behind Compactor	1.00	180.00 HR		13.150			2,533		2,533
8TRENCHBOX	Trench Box	1.00	180.00 HR		18.750			3,611		3,611
CARP	Carpenter	2.00	360.00 MH		16.750	9,104				9,104
FOREMAN	Foreman	1.00	180.00 MH		30.000	8,153				8,153
OPERCRAVE	Crane Operator	1.00	180.00 MH		25.000	6,794				6,794
OPEREQUIP	Equipment Operator	2.00	360.00 MH		17.000	9,240				9,240
\$111,959.78	1,080.0000 MH/LS		1,080.00 MH		[22050]	33,291		70,719	7,950	111,960

30G Erosion Control Quan: 1.00 LS Hrs/Shift: 8.00 Cal: 40 WC: NONE

EXCAV	Excavation Crew		8.00 CH		Prod: 8.0000 CH		Lab Pcs: 4.00		Eqp Pcs: 3.00	
2SILT	Silt Fence		100.00 LF		1.000		100			100
8D4	D4 Dozer	1.00	8.00 HR		31.250			268		268
8EX330	330 Excavator	1.00	8.00 HR		76.830			658		658
8PUTRUCK	Pickup Truck	1.00	8.00 HR		7.250			58		58

Cost Report

Activity Resource	Desc	Pcs	Quantity Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub-Contract	Total
BID ITEM = 30										
Description =	Sitework		Unit =	LS	Takeoff Quan:		1.000	Engr Quan:		1.000
CARP	Carpenter	1.00	8.00 MH	16.750	202					202
FOREMAN	Foreman	1.00	8.00 MH	30.000	362					362
OPEREQUIP	Equipment Operator	2.00	16.00 MH	17.000	411					411
\$2,058.49	32.0000 MH/LS		32.00 MH	[646]	975	100		983		2,058
30H Junction Box Excavation										
			Quan:	1.00 LS	Hrs/Shift:	8.00	Cal:	40	WC:	NONE
<u>EXCAV</u>	Excavation Crew		4.00 CH	Prod:	4.0000 CH	Lab Pcs:	4.00	Eqp Pcs:	3.00	
4HAUL	HAULING SUB		10.00 CY	20.000				200		200
532	#57 Stone, Bedding		14.00 TON	14.500		203				203
8D4	D4 Dozer	1.00	4.00 HR	31.250				134		134
8EX330	330 Excavator	1.00	4.00 HR	76.830				329		329
8PUTRUCK	Pickup Truck	1.00	4.00 HR	7.250				29		29
CARP	Carpenter	1.00	4.00 MH	16.750	101					101
FOREMAN	Foreman	1.00	4.00 MH	30.000	181					181
OPEREQUIP	Equipment Operator	2.00	8.00 MH	17.000	205					205
\$1,382.25	16.0000 MH/LS		16.00 MH	[323]	488		203	492	200	1,382
Item Totals: 30 - Sitework										
\$169,155.57	1,353.0000 MH/LS		1,353.00 MH	[27777.75]	41,939	8,591	305	83,506	34,815	169,156
169,155.570	1 LS				41,938.85	8,591.00	304.50	83,506.22	34,815.00	169,155.57

BID ITEM = 40										
Description =	42 inch Pipe		Unit =	LS	Takeoff Quan:		1.000	Engr Quan:		1.000
40A 42 inch Pipe										
			Quan:	480.00 LP	Hrs/Shift:	8.00	Cal:	40	WC:	NONE
<u>PIPE</u>	Pipe Laying Crew		90.00 CH	Prod:	90.0000 CH	Lab Pcs:	5.00	Eqp Pcs:	5.00	
2DIP	Ductile Iron Pipe		340.00 LF	291.000		98,940				98,940
2STRAP	Pipe Straps	1.00	1.00 LS	3,000.000		3,000				3,000
2TIE	Tie In Pipe	1.00	1.00 LS	3,777.360		3,777				3,777
3PAINT	Touch Up Paint@107%	1.00	1.00 LS	2,500.000			2,675			2,675
3PLUGS	Testing Plugs@107%	1.00	1.00 LS	3,813.000			4,080			4,080
532	#57 Stone, Bedding		40.00 TON	14.500		580				580
8EX330	330 Excavator	1.00	90.00 HR	76.830				7,399		7,399
8LS238	Linkbelt 238	1.00	90.00 HR	128.500				11,565		11,565
8PUTRUCK	Pickup Truck	1.00	90.00 HR	7.250				653		653
8RAMMEX	Walk Behind Compactor	1.00	90.00 HR	13.150				1,266		1,266
8TRENCHBOX	Trench Box	1.00	90.00 HR	18.750				1,806		1,806
CARP	Carpenter	2.00	180.00 MH	16.750	4,552					4,552
FOREMAN	Foreman	1.00	90.00 MH	30.000	4,076					4,076
OPERCANE	Crane Operator	1.00	90.00 MH	25.000	3,397					3,397
OPEREQUIP	Equipment Operator	1.00	90.00 MH	17.000	2,310					2,310
\$150,076.00	0.9375 MH/LF		450.00 MH	[19,781]	14,336	105,717	7,335	22,688		150,076
40B Girder Modifications										
			Quan:	1.00 LS	Hrs/Shift:	9.00	Cal:	45	WC:	NONE
2GIRDER	Girder Modifications		1.00 LS	34,546.000		34,546				34,546
Item Totals: 40 - 42 inch Pipe										
\$184,622.00	450.0000 MH/LS		450.00 MH	[9495]	14,336	140,263	7,335	22,688		184,622
184,622.000	1 LS				14,335.55	140,263.36	7,334.91	22,688.18		184,622.00

Cost Report

Activity Resource	Desc	Quantity Pcs	Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub-Contract	Total
BID ITEM = 99999										
Description = General Conditions			Unit =	LS	Takeoff Quan:		1.000	Engr Quan:		1.000
9 GENERAL CONDITIONS			Quan:	1.00 LS	Hrs/Shift:	8.00	Cal: 40	WC: NONE		
3*DH	Safety Supplies@107%	3,610.00	LBHR	0.150			579			579
3*TL	Small Tools@107%	198,668.56	TLB\$	0.050			10,629			10,629
3CELL	Cell Phones@107%	3.00	MO	200.000			642			642
3DUMPSTER	Dumpster Fee@107%	12.00	WK	250.000			3,210			3,210
3OFFICE	Postage and Copyi@107%	1.00	MO	250.000			268			268
3TTOIL	Temporary Toilets@107%	3.00	MO	180.000			578			578
4FUEL	On Road Fuel	3.00	MO	500.000					1,500	1,500
4LODGE	Per Diems	48.00	WK	375.000					18,000	18,000
8224*DE	=> Equipment Maintenanc	150,254.88	EQP\$	0.025				4,019		4,019
8PMVEH	=> PM Vehicle	480.00	HR	7.130				3,422		3,422
8SUPVEH	=> Superintendent Vehicle	640.00	HR	7.380				4,723		4,723
ADMIN	=> Project Assistant	5.00	WK	1,000.000	7,549					7,549
PCM	=> Field Construction Ma	2.00	WK	2,100.000	6,341					6,341
PM	=> Project Manager	12.00	WK	2,100.000	38,047					38,047
SAFE	=> Safety Engineer	2.00	WK	1,150.000	3,473					3,473
SUPER	=> Superintendent	12.00	WK	1,600.000	28,988					28,988
\$131,968.22				[]	84,398		15,905	12,165	19,500	131,968
Item Totals: 99999 - General Conditions					[]	84,398	15,905	12,165	19,500	131,968
\$131,968.22					[]	84,398	15,905	12,165	19,500	131,968
131,968.220		1 LS				84,397.82	15,905.48	12,164.92	19,500.00	131,968.22
\$654,024.79	*** Report Totals ***	3,610.00	MH			198,669	201,124	28,797	162,420	63,015 654,025

>>> indicates Non Additive Activity

-----Report Notes:-----

The estimate was prepared with TAKEOFF Quantities.
 This report shows TAKEOFF Quantities with the resources.

"Unreviewed" Activities are marked.

Bid Date: 05/17/13 Owner: Engineering Firm:
 Estimator-In-Charge:

JOB NOTES

Estimate created on: 05/10/2013 by User#: 4 - Paul Stephenson
 Source estimate used: S:\HEAVYBID\EST\PASMST

* on units of MH indicate average labor unit cost was used rather than base rate.

[] in the Unit Cost Column = Labor Unit Cost Without Labor Burdens

In equipment resources, rent % and EOE % not = 100% are represented as XXX%YYY where XXX=Rent% and YYY=EOE%
 -----Calendar Codes-----

- 40 STANDARD CALENDAR
- 45 NINE HOURS 5 DAYS A WEEK (Default Calendar)
- 50 TEN HOUR DAYS
- 55 WORK 9 - PAID 10

MATERIAL/SUB REQUIREMENTS REPORT

Biditem	Activity	Resource	Sel Vendor	Quantity	Unit	Unit Cost	%	Pcs/W	Total	Esc %
20	30B	21REBARACCES		1.000	LS	250.000	100.00	0.00	250.00	100.00
Subtotal:	21REBARACC	Rebar Accessories		1.000	LS	250.000	100.00		250.00	100.00
20	30A	21SUPERP		20.000	CY	4.500	100.00	0.00	90.00	100.00
Subtotal:	21SUPERP	Super Plasticizer		20.000	CY	4.500	100.00		90.00	100.00
20	30A	2CONC4500		101.000	CY	88.000	100.00	0.00	8,888.00	100.00
Subtotal:	2CONC4500	4500 psi concrete		101.000	CY	88.000	100.00		8,888.00	100.00
20	30A	2CONC4500W		10.000	CY	88.000	100.00	0.00	880.00	100.00
Subtotal:	2CONC4500W	4500 psi concrete waste		10.000	CY	88.000	100.00		880.00	100.00
20	30A	2CONCCLSB		21.000	CY	82.000	100.00	0.00	1,722.00	100.00
Subtotal:	2CONCCLSB	Class B concrete		21.000	CY	82.000	100.00		1,722.00	100.00
40	40A	2DIP		340.000	LF	291.000	100.00	0.00	98,940.00	100.00
Subtotal:	2DIP	Ductile Iron Pipe		340.000	LF	291.000	100.00		98,940.00	100.00
40	40B	2GIRDER		1.000	LS	34,546.000	100.00	0.00	34,546.00	100.00
Subtotal:	2GIRDER	Girder Modifications		1.000	LS	34,546.000	100.00		34,546.00	100.00
30	30D	2MANHOLE		2.000	EA	4,245.500	100.00	0.00	8,491.00	100.00
Subtotal:	2MANHOLE	Manholes		2.000	EA	4,245.500	100.00		8,491.00	100.00
20	30M	2MISCEMBED		1.000	LS	23,000.000	100.00	0.00	23,000.00	100.00
Subtotal:	2MISCEMBE	Misc embeds		1.000	LS	23,000.000	100.00		23,000.00	100.00
20	30B	2REBARB		16.000	TON	900.000	100.00	0.00	14,400.00	100.00
Subtotal:	2REBARB	Black Rebar		16.000	TON	900.000	100.00		14,400.00	100.00
20	30R	2RUB		2,615.000	SF	1.000	100.00	0.00	2,615.00	100.00
Subtotal:	2RUB	Rubbing supplies		2,615.000	SF	1.000	100.00		2,615.00	100.00
30	30G	2SILT		100.000	LF	1.000	100.00	0.00	100.00	100.00
Subtotal:	2SILT	Silt Fence		100.000	LF	1.000	100.00		100.00	100.00
40	40A	2STRAP		1.000	LS	3,000.000	100.00	0.00	3,000.00	100.00
Subtotal:	2STRAP	Pipe Straps		1.000	LS	3,000.000	100.00		3,000.00	100.00
20	30N	2SYNK		170.000	LF	2.500	100.00	0.00	425.00	100.00
Subtotal:	2SYNK	SnykaFlex waterstop		170.000	LF	2.500	100.00		425.00	100.00
40	40A	2TIE		1.000	LS	3,777.360	100.00	0.00	3,777.36	100.00
Subtotal:	2TIE	Tie In Pipe		1.000	LS	3,777.360	100.00		3,777.36	100.00
COST TYPE TOTAL									201,124.36	
99999	9	3*DH		3,610.000	LBHR	0.150	107.00	0.00	579.41	100.00
Subtotal:	3*DH	Safety Supplies		3,610.000	LBHR	0.150	107.00		579.41	100.00
99999	9	3*TL		198,668.560	TLB\$	0.050	107.00	0.00	10,628.77	100.00
Subtotal:	3*TL	Small Tools		198,668.560	TLB\$	0.050	107.00		10,628.77	100.00
20	30J	31BURLAP		204.540	SF	0.050	107.00	0.00	10.94	100.00
Subtotal:	31BURLAP	Burlap Fabric		204.540	SF	0.050	107.00		10.94	100.00

MATERIAL/SUB REQUIREMENTS REPORT

Biditem	Activity	Resource	Sel Vendor	Quantity	Unit	Unit Cost	%	Pcs/W	Total	Esc %
20	30J	31CHAMFER		486.310	LF	0.120	107.00	0.00	62.44	100.00
Subtotal:	31CHAMFER	Chamfer		486.310	LF	0.120	107.00		62.44	100.00
20	30J	31CURE		1,350.000	SF	0.100	107.00	0.00	144.45	100.00
Subtotal:	31CURE	Cure & Protect Supplies		1,350.000	SF	0.100	107.00		144.45	100.00
20	30J	31FORMOIL		2.800	GAL	6.000	107.00	0.00	17.98	100.00
Subtotal:	31FORMOIL	Form Oil		2.800	GAL	6.000	107.00		17.98	100.00
20	30G	31LUMBER		60.000	SF	0.750	107.00	0.00	48.15	100.00
Subtotal:	31LUMBER	Form Lumber		60.000	SF	0.750	107.00		48.15	100.00
20	30K	31POINT		2,315.000	SF	0.050	107.00	0.00	123.85	100.00
Subtotal:	31POINT	Point & Patch Supplies		2,315.000	SF	0.050	107.00		123.85	100.00
99999	9	3CELL		3.000	MO	200.000	107.00	0.00	642.00	100.00
Subtotal:	3CELL	Cell Phones		3.000	MO	200.000	107.00		642.00	100.00
99999	9	3DUMPSTER		12.000	WK	250.000	107.00	0.00	3,210.00	100.00
Subtotal:	3DUMPSTER	Dumpster Fee		12.000	WK	250.000	107.00		3,210.00	100.00
20	30C	3FH00		745.000	SF	1.000	107.00	0.00	797.15	100.00
20	30E	3FH00		2,315.000	SF	1.500	107.00	0.00	3,715.58	100.00
20	30H	3FH00		300.000	SF	1.000	107.00	0.00	321.00	100.00
Subtotal:	3FH00	Forms		3,360.000	SF		107.00		4,833.73	100.00
20	30E	3FORMPURCH		0.010	LS	1,000.000	107.00	0.00	10.70	100.00
Subtotal:	3FORMPURC	Form purchase		0.010	LS	1,000.000	107.00		10.70	100.00
99999	9	3OFFICE		1.000	MO	250.000	107.00	0.00	267.50	100.00
Subtotal:	3OFFICE	Postage and Copying		1.000	MO	250.000	107.00		267.50	100.00
40	40A	3PAINT		1.000	LS	2,500.000	107.00	0.00	2,675.00	100.00
Subtotal:	3PAINT	Touch Up Paint		1.000	LS	2,500.000	107.00		2,675.00	100.00
40	40A	3PLUGS		1.000	LS	3,813.000	107.00	0.00	4,079.91	100.00
Subtotal:	3PLUGS	Testing Plugs		1.000	LS	3,813.000	107.00		4,079.91	100.00
99999	9	3TTOIL		3.000	MO	180.000	107.00	0.00	577.80	100.00
Subtotal:	3TTOIL	Temporary Toilets		3.000	MO	180.000	107.00		577.80	100.00
COST TYPE TOTAL									27,912.63	
REPORT TOTAL									229,036.99	

Cost Types Selected: Permanent Materials, Construction Materials

Subtotal selected vendor, quantity, units, and unit price only display if they are the same for all line items in the subtotal.

MATERIAL/SUB REQUIREMENTS REPORT

Biditem	Activity	Resource	Sel Vendor	Quantity	Unit	Unit Cost	%	Pcs/W	Total	Esc %
30	30D	532		7.000	TON	14.500	100.00	0.00	101.50	100.00
30	30H	532		14.000	TON	14.500	100.00	0.00	203.00	100.00
40	40A	532		40.000	TON	14.500	100.00	0.00	580.00	100.00
Subtotal:	532	#57 Stone, Bedding		61.000	TON	14.500	100.00		884.50	100.00

COST TYPE TOTAL 884.50

REPORT TOTAL 884.50

Cost Types Selected: Other Non-labor/equipment Resource

Subtotal selected vendor, quantity, units, and unit price only display if they are the same for all line items in the subtotal.

LABOR USE REPORT

RESOURCE	DESCRIPTION	QUAN		RATE	BASE	BURDEN	TOTAL
ADMIN	Project Assistant	5.00	WK	1,000.00	5,000.00	2,549.00	7,549.00
CARP	Carpenter	1,792.00	MH	16.75	30,016.00	15,302.16	45,318.16
FCM	Field Construction	2.00	WK	2,100.00	4,200.00	2,141.16	6,341.16
FOREMAN	Foreman	668.00	MH	30.00	20,040.00	10,216.40	30,256.40
OPERCRA	Crane Operator	335.00	MH	25.00	8,375.00	4,269.58	12,644.58
OPEREQUIP	Equipment Operator	815.00	MH	17.00	13,855.00	7,063.28	20,918.28
PE	Project Engineer	1.00	WK	1,300.00	1,300.00	662.74	1,962.74
PM	Project Manager	13.00	WK	2,100.00	27,300.00	13,917.54	41,217.54
SAFE	Safety Engineer	2.00	WK	1,150.00	2,300.00	1,172.54	3,472.54
SUPER	Superintendent	12.00	WK	1,600.00	19,200.00	9,788.16	28,988.16
Grand Total					131,586.00	67,082.56	198,668.56

QUANTITIES HAVE BEEN FACTORED TO BID QUANTITY
 Note: Non Additive labor costs are in italics and are not included in Totals.

EQUIPMENT USE BY EQUIPMENT

Biditem/ Category	Activity/ Resource	Description	Quantity	Unit	Pcs	Rnt %	EOE %	Inside Equipment	Outside Equipment	EOE	Total
8224*DE		Equipment Maintenance									
99999	9	GENERAL CONDITIONS	150,254.88	EQP\$		100	100			4,019	4,019
*** 8224*DE		Equipment Maintenance	150,254.88							4,019	4,019
8CAT420		Cat 420 Backhoe									
20	30R	Rubbing	35.00	HR	1.00	100	100		315	47	361
*** 8CAT420		Cat 420 Backhoe	35.00						315	47	361
8D4		D4 Dozer									
10	10B	Access Cleanup	8.00	HR	1.00	100	100		233	34	268
30	30D	Manhole Installation	45.00	HR	1.00	100	100		1,312	193	1,505
30	30G	Erosion Control	8.00	HR	1.00	100	100		233	34	268
30	30H	Junction Box Excavation	4.00	HR	1.00	100	100		117	17	134
*** 8D4		D4 Dozer	65.00						1,895	278	2,173
8EQUIPDEL		Large Equipment Delivery									
10	10A	Crane Mobilization	42.00	EA		100	100	21,000			21,000
*** 8EQUIPDEL		Large Equipment Delivery	42.00					21,000			21,000
8EX330		330 Excavator									
10	10B	Access Cleanup	8.00	HR	1.00	100	100		555	103	658
20	30S	Equipment Support	200.00	HR	1.00	100	100		13,874	2,568	16,442
30	30D	Manhole Installation	45.00	HR	1.00	100	100		3,122	578	3,699
30	30F	Pipe & Manhole Demolition	180.00	HR	1.00	100	100		12,486	2,311	14,797
30	30G	Erosion Control	8.00	HR	1.00	100	100		555	103	658
30	30H	Junction Box Excavation	4.00	HR	1.00	100	100		277	51	329
40	40A	42 inch Pipe	90.00	HR	1.00	100	100		6,243	1,156	7,399
*** 8EX330		330 Excavator	535.00						37,112	6,869	43,981
8HOERAM		Hydraulic Ram									
30	30F	Pipe & Manhole Demolition	180.00	HR	1.00	100	100		22,068	3,274	25,342
*** 8HOERAM		Hydraulic Ram	180.00						22,068	3,274	25,342
8LS238		Linkbelt 238									
10	10A	Crane Mobilization	20.00	HR	1.00	100	100	2,250		320	2,570
30	30D	Manhole Installation	45.00	HR	1.00	100	100	5,063		720	5,783
30	30F	Pipe & Manhole Demolition	180.00	HR	1.00	100	100	20,250		2,880	23,130
40	40A	42 inch Pipe	90.00	HR	1.00	100	100	10,125		1,440	11,565
*** 8LS238		Linkbelt 238	335.00					37,688		5,360	43,048
8PMVEH		PM Vehicle									
99999	9	GENERAL CONDITIONS	480.00	HR		100	100	2,462		960	3,422
*** 8PMVEH		PM Vehicle	480.00					2,462		960	3,422
8PUTRUCK		Pickup Truck									
10	10A	Crane Mobilization	20.00	HR	1.00	100	100	100		45	145
10	10B	Access Cleanup	8.00	HR	1.00	100	100	40		18	58
10	10D	Estimating	40.00	HR		100	100	200		90	290
20	30B	Rebar	47.00	HR	1.00	100	100	235		106	341
20	30C	Edge Formwork	50.00	HR	1.00	100	100	250		113	363
20	30D	Place and Finish Slab Concrete	21.00	HR	1.00	100	100	105		47	152
20	30E	Wall Formwork	80.00	HR	1.00	100	100	400		180	580
20	30F	Place Wall Concrete	15.00	HR	1.00	100	100	75		34	109
20	30G	Bulkhead Formwork	4.00	HR	1.00	100	100	20		9	29
20	30H	Shoring for Suspend Slab	20.00	HR	1.00	100	100	100		45	145
20	30J	Curing and Concrete Access	2.00	HR	1.00	100	100	10		5	15
20	30K	Point and Patch Walls	8.00	HR	1.00	100	100	40		18	58
20	30M	Embeds	27.00	HR	1.00	100	100	135		61	196
20	30N	Waterstop	4.00	HR	1.00	100	100	20		9	29
20	30R	Rubbing	35.00	HR	1.00	100	100	175		79	254
30	30D	Manhole Installation	45.00	HR	1.00	100	100	225		101	326
30	30F	Pipe & Manhole Demolition	180.00	HR	1.00	100	100	900		405	1,305
30	30G	Erosion Control	8.00	HR	1.00	100	100	40		18	58
30	30H	Junction Box Excavation	4.00	HR	1.00	100	100	20		9	29
40	40A	42 inch Pipe	90.00	HR	1.00	100	100	450		203	653
*** 8PUTRUCK		Pickup Truck	708.00					3,540		1,593	5,133
8RAMMEX		Walk Behind Compactor									
30	30F	Pipe & Manhole Demolition	180.00	HR	1.00	100	100		2,147	385	2,533

EQUIPMENT USE BY EQUIPMENT

Biditem/ Category	Activity/ Resource	Description	Quantity	Unit	Pcs	Rnt %	EOE %	Inside Equipment	Outside Equipment	EOE	Total
40	40A	42 inch Pipe	90.00	HR	1.00	100	100		1,074	193	1,266
***	8RAMMEX	Waik Behind Compactor	270.00						3,221	578	3,799
8	SUPVEH	Superintendent Vehicle									
99999	9	GENERAL CONDITIONS	640.00	HR		100	100	3,283		1,440	4,723
***	8SUPVEH	Superintendent Vehicle	640.00					3,283		1,440	4,723
8	TRENCHBOX	Trench Box									
30	30F	Pipe & Manhole Demolition	180.00	HR	1.00	100	100		3,611		3,611
40	40A	42 inch Pipe	90.00	HR	1.00	100	100		1,806		1,806
***	8TRENCHBOX	Trench Box	270.00						5,417		5,417
REPORT TOTALS								67,973	70,028	24,419	162,420

*** indicates non-additive item

MATERIAL/SUB REQUIREMENTS REPORT

Biditem	Activity	Resource	Sel Vendor	Quantity	Unit	Unit Cost	%	Pcs/W	Total	Esc %
30	30D	4CLEANUP		1.000	LS	2,500.000	100.00	0.00	2,500.00	100.00
Subtotal:	4CLEANUP	Clean Up		1.000	LS	2,500.000	100.00		2,500.00	100.00
30	30D	4COAT		1.000	LS	20,565.000	100.00	0.00	20,565.00	100.00
Subtotal:	4COAT	Coating		1.000	LS	20,565.000	100.00		20,565.00	100.00
30	30F	4DUMP		30.000	LD	65.000	100.00	0.00	1,950.00	100.00
Subtotal:	4DUMP	Disposal Fee		30.000	LD	65.000	100.00		1,950.00	100.00
30	30A	4FENCE		1.000	LS	1,100.000	100.00	0.00	1,100.00	100.00
Subtotal:	4FENCE	Fencing Sub		1.000	LS	1,100.000	100.00		1,100.00	100.00
99999	9	4FUEL		3.000	MO	500.000	100.00	0.00	1,500.00	100.00
Subtotal:	4FUEL	On Road Fuel		3.000	MO	500.000	100.00		1,500.00	100.00
30	30F	4HAUL		80.000	HR	75.000	100.00	0.00	6,000.00	100.00
30	30H	4HAUL		10.000	CY	20.000	100.00	0.00	200.00	100.00
Subtotal:	4HAUL	HAULING SUB					100.00		6,200.00	100.00
99999	9	4LODGE		48.000	WK	375.000	100.00	0.00	18,000.00	100.00
Subtotal:	4LODGE	Per Diems		48.000	WK	375.000	100.00		18,000.00	100.00
20	30B	4REBAR		16.000	TON	400.000	100.00	0.00	6,400.00	100.00
Subtotal:	4REBAR	Rebar Sub		16.000	TON	400.000	100.00		6,400.00	100.00
30	30C	4SEED		1.000	LS	2,500.000	100.00	0.00	2,500.00	100.00
Subtotal:	4SEED	Seeding Subcontractor		1.000	LS	2,500.000	100.00		2,500.00	100.00
10	10C	4SURVEY		1.000	LS	2,300.000	100.00	0.00	2,300.00	100.00
Subtotal:	4SURVEY	Survey Sub		1.000	LS	2,300.000	100.00		2,300.00	100.00

COST TYPE TOTAL 63,015.00

REPORT TOTAL 63,015.00

Cost Types Selected: Subcontractor

Subtotal selected vendor, quantity, units, and unit price only display if they are the same for all line items in the subtotal.

531,605



SPIDER[®]

SUPPORTS AND SPACERS

Quote

Attention
Tony Nash

Date	Reference #
5/14/2013	5222

Bill To
Crowder Construction Company 1111 Burma Dr. Apex, NC 27539

Ship To
Crowder Construction Company 1111 Burma Dr. Apex, NC 27539

Terms	Rep	FOB	Project
Net 30	SM		

Qty	Part #	Description	Rate	Status	Total
32	ST-42	Galvanized Pier Strap for 42" DIP Pipe 1/4"x3" galvanized material with 1" bolts and 1/4"x2-1/2" Neoprene Pad 2/3 cover	170.00		5,440.00T

Please contact us if you need specifications or other documents.	Subtotal	\$5,440.00
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All in stock items ordered before 3:00 ship the same day. Items shipped next day air are subject to additional charges. All item(s) that are custom made are non returnable. Item(s) are marked custom under part number(s). On all returned items are subject to a 20% restocking fee. We accept check (required credit approval), Discover, Visa, Mastercard, wire transfer and COD as payment.	Sales Tax (7.0%)	\$380.80
	Total	\$5,820.80

SPIDER MANUFACTURING INCORPORATED

PO Box 81 . Butner, NC 27509 . Phone 919-575-0414 . Fax 919-575-0420 . 1-800-957-7433 . Email SpiderMfgInc@aol.com

www.SpiderPipeSupports.com



Carolina Management Team

painting and concrete repair

P.O. Box 1409
Enka, NC 28728
www.CMTcoatings.com

828-648-7708
fax 828-648-7709

Durham Ellerbe Creek Aerial Sewer Crossing Replacement

Date: September 12, 2012 (Revised 5/13/13) (Second Revision 5/17/13) **Proposal #12167.2**

From: Will Mayfield, Operations Manager 336-608-7876

Proposal: Manholes and Junction Box

Location: Durham, NC

Surface Preparation and Coating Application:

- Pressure wash at 5,000 PSI
- Apply Sherwin-Williams Steel Seam FT 910
- Apply Sherwin-Williams Dura-Plate235
- Apply Sherwin-Williams SherFlex

Notes:

- Due to significant changes a new scope of work is required – scope of work is an add-on to the original scope along with removal of the existing junction box
- Price is for two 8' diameter manholes and coating for new junction box
- The price for the credit of the removal of the existing Junction Box Rehab is \$4,000
- Price does not include bypass pumping, traffic control or chemical injection for water infiltration
- Assistance may be necessary reaching work areas not accessible by four-wheeled drive vehicles
- All agreements contingent upon: weather, delay beyond our control, no lead present
- Please contact Will Mayfield 336-608-7876 for questions

Warranty: One year on materials and labor

All materials guaranteed to be as specified and all work to be performed as specified and completed in a professional and workmanlike manner for the sum of **\$20,565.00**. Payment is to be made net 30 days.

CMT is proud to have:

DBE, HUB and WBE certification, verifiable on NC DOT website:

<https://partner.ncdot.gov/VendorDirectory/detail.html?s=pbs&f=0000050873>

Two NACE Certified Coating Inspectors and Three SSPC Certified Concrete Coating Inspectors on staff

Been awarded NC's Small Business Persons of the Year in 2008

Tony Nash

From: Will Mayfield <will@cmtcoatings.com>
Sent: Wednesday, May 15, 2013 8:56 AM
To: Tony Nash
Subject: RE: Ellerbe Creek

We are looking at about \$2,500.00 with the disposal of the loose concrete that come of the interior of the structures. Disposal of sewage and bypassing of the structures is not included.

Will Mayfield



Carolina Management Team
coatings and concrete repair

1911 Baker Rd
High Point, NC 27263
C 336-608-7876
P 336-431-7708
F 336-431-7709
Will@CMTcoatings.com
www.CMTcoatings.com

What exactly is
this cost for?

clearing prior to demo

CMT is growing! We are looking for project superintendents and production employees with coating and concrete repair experience. Please help us staff up by passing along our need to fill positions. Thank you!
From corrosion control to concrete repair and painting CMT is your award-winning solution!

From: TNash@crowdercc.com [mailto:TNash@crowdercc.com]
Sent: Tuesday, May 14, 2013 10:30 AM
To: Will Mayfield
Subject: RE: Ellerbe Creek

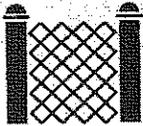
And an 8' foot manhole on the other side of the creek

From: Will Mayfield [mailto:will@cmtcoatings.com]
Sent: Monday, May 13, 2013 4:31 PM
To: Tony Nash
Subject: RE: Ellerbe Creek

Tony, Can you tell me what is our total scope of work for this project. There has been so many changes I am confused.

Will Mayfield

PROPOSAL



FRYE FENCE CO., INC.
3221 Durham Drive Suite 115
RALEIGH, NC 27603

Phone (919) 779-4700
Fax (919) 779-7667

TO: Crowder Construction
C/o Tony Nash

PHONE	DATE 5/17/13
JOB NAME / LOCATION Ellerbe Creek	
CHANGE ORDER	
JOB NUMBER	JOB PHONE

We hereby submit specifications and estimates for:

I. Take out approximately 40' ft. of existing chain link fencing with barbed wire on top.

\$300.00

II. Furnish and install approximately 40' ft. of new chain link fencing with barbed wire on top.

- 9 gauge chain link fabric
- 1-5/8" top and brace rail
- 2 1/2" line posts
- 3" terminal posts
- 7 gauge bottom tension
- Class III barbed wire
- Existing materials to be reused when in good condition

\$800.00

WE PROPOSE hereby to furnish material and labor — complete in accordance with the above specifications, for the sum of _____ dollars (\$ _____).

Payment to be made as follows:

All material is guaranteed to be as specified. All work to be completed in a professional manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado, and other necessary insurance. Our workers are fully covered by Worker's Compensation insurance.

Authorized Signature James M. Inge

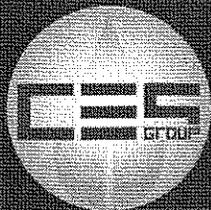
Note: This proposal may be withdrawn by us if not accepted within _____ days.

ACCEPTANCE OF PROPOSAL — The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

Signature _____

Date of Acceptance: _____

Signature _____



engineers
planners
surveyors
scientists

21 GLENWOOD AVENUE, SUITE 203
RALEIGH, NC 27603
T 919.523.9718
F 919.832.6965
www.ces-group.net

CES Group Engineers, LLP
WOSB / HUB Zone / NC HUB / DBE / WBE



May 14, 2013

Tony Nash
Crowder Construction Company
1111 Burma St.
Apex, NC 27539

**RE: Construction Staking – Ellerbe Creek Aerial Sewer Replacement
CES PN30118.0513 SR**

Dear Mr. Nash:

Thank you for the opportunity for CES Group Engineers, LLP (CES) to submit this proposal to Crowder Construction Company (Client) to provide construction staking services for the Ellerbe Creek Aerial Sewer Replacement Project.

Our Scope of Services, fees, assumptions and exceptions are attached as Exhibit A (two pages). Please review the scope and let us know if any items need to be added or deleted. Exhibit B (one page) includes our applicable unit rates schedule, which may be applied to any requested additional services. The performance of the proposed Scope of Work is subject to our General Conditions for Engineering & Surveying Services (attached), which are incorporated into and made a part of this proposal for your acceptance. In the event of a conflict, the Assumptions and Exceptions as outlined in Exhibit A take precedence over the general conditions.

A signed and returned copy of this proposal letter will be considered as our notice to proceed.

Please feel free to contact Troy Klungseth, PLS with any questions. We look forward to working with you on this project.

Sincerely,
CES Group Engineers, LLP

Judy L. Heleine, REM
Managing Partner

Troy J. Klungseth, PLS
Geomatics Section Manager - Raleigh

Approved:
Crowder Construction Company

Signature

Name

Title

Date

Attachments

Exhibit A
Scope of Services

Date: May 14, 2013

Project: Ellerbe Creek Aerial Sewer Replacement

SCOPE: CES will perform the following construction staking services for the project:

1. **Survey Control:** Recover horizontal and vertical control, and set Control Points with elevations.

2. **Stake Bent Locations:** Stake Centerline and Offset stakes for two (2) Bent Locations, with Elevations.

3. **Sanitary Sewer:** Stake 3 sanitary sewer structures to include 2 manholes and 1 junction box. Grades will be set to finished grade and invert elevations.

Total Fee – Lump Sum: \$ 2,300.00

ASSUMPTIONS and EXCEPTIONS:

Fees include all travel, mileage and supplies.

Additional travel and mileage fees may be charged for individual work requests of less than four (4) hours per day in duration.

All stakeout work is one-time only. Work to replace lost or destroyed survey control or stakeout points will be completed as Additional Services on an hourly basis, in accordance with the attached hourly rates schedule, Exhibit B.

Any requests for stakeout services other than those as described in Scope of Services Items 1 through 3, above, will be completed as Additional Services. Fees for Additional Services may be negotiated beforehand if a Scope of Work is developed by Client. Travel and mileage fees will be charged for Additional Services in accordance with the published GSA mileage and per diem rates effective at the time of service.

CES will perform work for Client and/or Client's designated representative only. Work requested by others must first be approved by Client either in writing or verbally followed by written backup.

Client will provide CES an up-to-date CAD file of the project on or before notice to proceed. All stakeout work will be performed based on information provided in the CAD file and will be subject to accuracy and completeness per the version and/or revision date of the file.

SCHEDULE:

CES will be available to begin work as needed upon receipt of notice to proceed or receipt by CES of the project CAD file from Client, whichever is later. CES will consider a signed and returned copy of this proposal as official notice to proceed. Schedule will proceed in accordance with Client's schedule.

PAYMENT for SERVICES:

CES will invoice Client monthly for scope items and Additional Services. Invoices will be based on the percent complete of each task included. Payment by Client will be due immediately and will be considered past due within 30 days of invoice date.

CES Group Engineers, LLP is a provider of professional services, and is therefore not subject to the withholding of retainage fees by Client.

Exhibit B
Hourly Rate Schedule

Date: 05/14/2013
Project: Ellerbe Creek Aerial Sewer Replacement

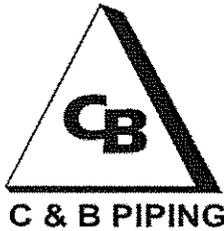


CES GROUP ENGINEERS, LLP

EXHIBIT B
2013 STANDARD FEE SCHEDULE

CIVIL/GEOMATICS & PLANNING DIVISIONS:

<u>Classification</u>	<u>Hourly Rate</u>
Principal Engineer	\$ 145.00
Sr. Project Mgr. / Sr. Professional Engineer	125.00
Project Mgr. / Professional Engineer / RLA	110.00
Sr. Project Engineer / Landscape Architect	105.00
Project Engineer	95.00
Engineer	85.00
Licensed Land Surveyor	110.00
Survey Crew w/ Total Station	125.00
Sr. CAD Designer	78.00
CAD Designer / Sr. Technician	70.00
CAD Technician	68.00
Technician	60.00
Technician Assistant	50.00
Administrative Assistant	45.00
Mileage & Per Diem	Published GSA rates at time of service



C&B PIPING, INC.

ALAN FOOTE
 (205) 699-0455
 FAX (205) 699-0773
afoote@cbpiping.com

PROJECT: DURHAM, NC (FOR CROWDER ONLY)
 ELLERBE CREEK

BID:
 REVISION:
 ADDENDA: **CO** **NET R2**
 ESTIMATOR: CHANGE ORDER 13-052111

We are pleased to offer for your consideration, our proposal covering ductile iron pipe and fittings for the above referenced project.

The bill of material listed in our proposal is our interpretation of the contract drawings. It is offered as assistance in preparing your total estimate but is not guaranteed as to the final material that would actually be required. We could furnish you with piping layout drawings detailing all the the above with a bill of material which would be for approval prior to ordering and manufacturing.

C&B Piping, Inc. is a fabricator of ductile iron pipe. We will furnish and fabricate flange pipe, wall pipe and factory restrained joint cut/weld pieces for this project.

All prices are FOB factory with full truckload freight allowed to jobsite. We do not include sales or use taxes. Our payment terms are less 2% if paid in 10 days and full payment in 30 days. All past due invoices will be charged 1-1/2% interest per month.

**** ESCALATION CLAUSE ****

Push-On and Restrained Joint pipe prices are firm for 90 days from bid date. Fabricated pipe & all fitting prices are firm for 6 months from bid date. All prices are subject to increase if not ordered within the above mentioned time periods.

Note the following:

IMPORTANT INFORMATION CONCERNING FLANGED PIPE

30"-48" Flange Pipe fabricated by C&B Piping, Inc will be furnished with FLANGE-TYTE® Gaskets. Failure to use this gasket will result in voiding the manufacturer's warranty.

IMPORTANT INFORMATION CONCERNING FLANGED PIPE

30"-48" Flange Pipe fabricated by C&B Piping, Inc will be furnished with FLANGE-TYTE® Gaskets. Failure to use this gasket will result in voiding the manufacturer's warranty.

FLANGE-TYTE® GASKET FULL FACE -1/8" THICKNESS - 3 O-RING SEAL FEATURE

	Approximate Bolt Torque (ft-lb)																
	04"	06"	08"	10"	12"	14"	16"	18"	20"	24"	30"	36"	42"	48"	54"	60"	64"
150 PSI ---->															550	600	600
250 PSI ---->	90	90	90	90	90	110	110	120	120	130	140	160	585	625			
350 PSI ---->	110	110	110	130	130	150	160	180	200	220							

SEQ	ADD	MARK	MARK	QUAN	UNIT	DESCRIPTION	TOTAL WEIGHT	UNIT PRICE	TOTAL PRICE
10									
20									
30				340	FT	42" HP LOK DIP CLASS 250 18' NOM 401/TC	79,662.0	291.00	\$98,940.00
40				1	EA	42" FLG x PE DIP CL53 2' 0" 401/PC 1-HP PE	1,123.0	3,777.36	\$3,777.36
50				2	EA	30" PE x PE DIP CL53 1' 2" 401/PC 1-TMJ BELL 1-WC	487.8	2,365.00	\$4,730.00
60				2	EA	30" WEDGE RESTRAINT SET (DI)	546.0	675.00	\$1,350.00

70
80
90
100
110
120
130
140
150
160
170

1	EA	42" FLG x PE DIP CL53 1' 4" 401/PC 1-TF 1-WC	969.0	4,250.00	\$4,250.00
1	EA	42" FLG PAK RR GSKT & (A307B) 36-1-1/2x7.5		1,650.00	\$1,650.00
2	EA	12" FLG x PE DIP CL53 1' 4" 401/PC 1-WC	266.0	575.00	\$1,150.00
2	EA	12" FLG x FLG DIP CL53 1' 0" 401/PC	324.0	385.00	\$770.00
4	EA	12" FLG 90 C110 401/PC	940.0	535.00	\$2,140.00
8	EA	12" FLG PAK RR GSKT & (A307B) 12-7/8x4		105.00	\$840.00
2	EA	12" SCREW FLANGES		45.00	\$90.00

TOTAL FOR PROJECT - ALL ITEMS LISTED ABOVE			84,317.8		\$119,687.36
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National Strength. Local Service.

Harris Rebar North Carolina Inc.

Project No: 20113113 Date: May 14, 2013

To: Crowder Construction Company
 Attn: Mr. Tony Nash

Project: Ellerbe Creek Aerial Crossing Phase II

Loc.: Durham, NC

Arch.: Kimley-Horn

Addms: n/a

Plan List: E-Mail from Tony Nash with 5 drawings (No Dates)

We propose furnishing the necessary reinforcing steel meeting the requirements of ASTM A615 grade 60. Material will be cut, bent bundled and tagged in accordance with plans and specifications as listed above and the CRSI Manual of Standard Practice. Weldable grade steel is not included. Bar supports will be furnished per CRSI Manual of Standard Practice, which excludes supports on grade and vertical surfaces. Welded Wire Mesh quantities will be listed below if required. No supports for WWM is included unless noted. We exclude stamp or review of placing drawings by a professional engineer. All material will be delivered in 40,000# truckload quantities to the nearest accessible point, unloading not included. Delivery schedule to be mutually accepted. All prices are Lump Sum unless noted:

GC/Owner must agree to pay for offsite stored material with proof of insurance coverage.

Base Bid: Approximately 17 tons plain rebar for \$14,491.00 plus applicable tax.

- Price Includes:
- a) 1 - Junction Box & 9 - Pipe Supports
 - b) Supports on grade and wall supports / spacers

The fabricated reinforcing steel price is firm until 8/12/13. After that date, the price will be subject to an escalation of \$50.00 per ton and an additional \$50.00 per ton each three month period thereafter.

TERMS: NET 30 DAYS FROM INVOICE AND WILL BE INVOICED AS SHIPPED, NO RETAINAGE

This quotation is offered for acceptance within 30 days.

Accepted by Buyer

Harris Rebar North Carolina Inc.

This _____ day of _____

By: Neil Byrd 5/14/2013

Buyer's name: _____

Title: Sales Estimator

Approved By: _____

Approved By: _____

Name/Tite: _____

Name/Title: Gary Rhodes, Area Manager



803 S. Market St
Benson, NC 27504
PHONE: (919) 894-3900
FAX: (919) 894-3950

National Strength. Local Service. STANDARD TERMS AND CONDITIONS

1. Acceptance of this Proposal by Contractor shall be acceptance of all terms and conditions recited herein or incorporated by reference. Utilizing Harris Rebar's bid amount in its own bid, issuing a letter of intent to Harris Rebar North Carolina Inc., or allowing Harris Rebar North Carolina Inc. to commence material preparation will constitute acceptance by Contractor of this Proposal and all its terms and conditions. Contractor may not use this Proposal unless it intends to include and give precedence to all of the terms and conditions contained in this Proposal into any eventual contract between Contractor and Harris Rebar North Carolina Inc.
2. Quotations herein, unless otherwise stated, are for immediate acceptance and subject to change until the first shipment by Harris Rebar North Carolina Inc. Harris Rebar's obligation to perform under this Proposal or to enter into any contract or agreement with Contractor is contingent upon credit approval of Contractor. Harris Rebar North Carolina Inc. may, at its discretion, withdraw this Proposal or refuse to perform under this Proposal if Harris Rebar North Carolina Inc. determines that Contractor is a credit risk.
3. There are no provisions with respect to this Proposal which are not specified herein. Upon acceptance of this Proposal by Contractor the terms and conditions contained within this Proposal constitute the entire contract between Harris Rebar North Carolina Inc. and Contractor.
4. Harris Rebar North Carolina Inc. shall be paid net 30 days from date of invoice. Harris Rebar's right to receive payment and Contractor's obligation to make payment is not contingent upon an act of any third party including Contractor's receipt of payment from the Owner, lender, or other contractor.
5. Contractor agrees to pay Harris Rebar North Carolina Inc. in accordance with escalation policy as specifically identified in the Proposal.
6. In the event that Harris Rebar North Carolina Inc. shall find reasonable grounds for insecurity in Contractor's performance, or upon Contractor's default, Contractor authorizes Harris Rebar North Carolina Inc. to communicate directly with the project Owner or Contractor's contracting parties and secure payment of the material by requesting the issuance of a joint check or by direct payment from such contracting party.
7. No back charges or claim of Contractor for services shall be valid except by the agreement in writing by Harris Rebar North Carolina Inc.
8. All Change Orders requested by the contractor and sent by Harris Rebar North Carolina Inc. to the Contractor that are not signed by the Contractor or the owner within ten (10) days of receipt shall be deemed accepted by the Contractor.
9. All sums not paid when due shall bear interest at the rate of 1½% per month from due date until paid or the maximum legal rate permitted by law whichever is less; Contractor is liable to Harris Rebar North Carolina Inc. for all costs of collection, including attorney fees, and other expenses.
10. If Contractor fails to make payment to Harris Rebar North Carolina Inc. as herein provided, then Harris Rebar North Carolina Inc. may immediately stop work without notice and without prejudice to any other remedy it may have.
11. Contractor is to prepare all work areas so as to be acceptable for Harris Rebar's delivery under this Proposal. The performance of Harris Rebar's delivery is contingent upon full and complete access to the job site and to the areas whereby Harris Rebar North Carolina Inc. is to perform its delivery.
12. After acceptance of this Proposal as provided, Harris Rebar North Carolina Inc. shall be given a reasonable time in which to commence and complete the delivery of the material under this Proposal. Harris Rebar North Carolina Inc. shall not be responsible for delays or defaults where occasioned by any causes of any kind and extent beyond its control, including but not limited to: delays caused by Contractor, Owner, architect and/or engineers, or other contractors, suppliers or third parties; armed conflict or economic dislocation resulting therefrom; embargos, shortages of labor, equipment or materials, production facilities or transportation; labor difficulties; civil disorders of any kind; action of civil or military authorities; vendor priorities and allocations, fires, floods, accidents, unusual or unanticipated weather conditions or precipitation; and acts of God.
13. Contractor may not assign this Proposal, the contract, purchase order, agreement, or any rights or obligations contained in this Proposal, the contract, purchase order, or agreement between Harris Rebar North Carolina Inc. and Contractor without prior written consent of Harris Rebar North Carolina Inc.
14. All material is guaranteed against defects for a period of one year from the date of substantial completion of Harris Rebar's delivery hereunder. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED, INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Harris Rebar North Carolina Inc. shall not be responsible for special, incidental, or consequential damages. Harris Rebar North Carolina Inc. shall not be responsible for damage to its material caused by others. Contractor shall pay Harris Rebar North Carolina Inc. for any repair work necessitated by damage to its material caused by others.
15. All materials shall be furnished in accordance with the respective industry tolerance of color variation, thickness, size, finish, texture and performance standards.
16. Notwithstanding any provision contained in this Proposal or the Contract Documents, Harris Rebar North Carolina Inc. may file a lien or claim on its behalf in the event that any payment to Harris Rebar North Carolina Inc. is not made as and when provided for by this Proposal.
17. Contractor represents, warrants and agrees that (i) it has obtained all state and local permits, consents, approvals and permissions as well as easements necessary for the material and has furnished all bonds or financial security called for by governmental authorities; (ii) job and site conditions have been prepared for material delivery in the normal course.
18. No liquidated damages shall be assessed against Harris Rebar North Carolina Inc. for delays or causes attributed to other contractors in any amount, unless specifically deducted from Contractor's contract amount by Owner and attributed to Harris Rebar North Carolina Inc.
19. In resolving conflicts, errors, discrepancies and disputes concerning the material to be delivered by Harris Rebar North Carolina Inc., this Proposal shall be given precedence over all other documents, including plans and specifications.
20. Any provision in the Contract Documents which imposes a duty upon Harris Rebar North Carolina Inc. to indemnify and hold harmless Owner, Contractor, or any other party shall be limited to claims, damages, losses and expenses only for personal injury or property damage and resulting solely from the performance of Harris Rebar's material provided and only to the extent caused by any negligent act or omission of Harris Rebar North Carolina Inc. Any such indemnification obligation of Harris Rebar North Carolina Inc. shall be excused to the extent that the claim or event giving rise to the demand for indemnification is caused in whole or in part by the acts or omissions of Contractor or any other party sought to be indemnified.
21. In the event that Harris Rebar North Carolina Inc. chooses to enforce any of the terms and conditions of this Proposal, or is entitled to recover from Contractor any damages or moneys, Harris Rebar North Carolina Inc. shall be entitled to recover its attorney fees incurred for all investigation, negotiation, litigation, mediation and other such services commonly performed, and all court costs, fees paid to experts, mediation fees and similar expenses. As a condition precedent to any court action by Contractor, the parties shall mediate any dispute or disagreement under the pre-suit mediation rules of Indiana statutes or court rules.
22. Contractor may terminate this proposal for convenience or for any other reason not the fault of Harris Rebar North Carolina Inc. upon written notice to Harris Rebar North Carolina Inc. which gives Harris Rebar North Carolina Inc. five days to stop material preparation or delivery. After ten days from written notice of a termination for convenience Contractor shall pay Harris Rebar North Carolina Inc. an amount equal to the material prepared or delivered for the Project, including any engineering, listing, detailing, shop drawings, stock material which cannot be reused within 60 days, partial fabrication of material, fabrication of material not yet delivered, material delivered to the Project but not incorporated into the Project, lost anticipated profit and overhead, as well as any other consequential damages.
23. This Acknowledgement is conditioned upon the buyer obtaining credit approval and the execution of a mutually agreeable purchase order.

TAMPA TANK, INC.
FLORIDA
STRUCTURAL STEEL

TO: Crowder Construction Company

PCO#-1

DATE: May 30, 2013

PROJECT: Ellerbe Creek Aerial Sewer Crossing

Via e-mail: TNash@crowdercc.com

LOCATION: Durham, NC.

A/E: Kimley-Horn & Associates

ATTN: Tony Nash

PLANS: Job 011494062 sheet 1 to 12

Ph: 919-367-2000

SPECS: Div 5

Cell: 919-369-5041

SUBJECT TO THE PRINTED TERMS AND CONDITIONS, which are hereby referred to and made a part of this proposal, Tampa Tank, Inc / Florida Structural Steel (www.tti-fss.com), an AISC certified fabricator, quotes you as follows:

Per new drawings S1, 2, 3, 3A, 4, 5, 6 & 7 the following new changes as follows:

- 1) **14-New Fabricated Flange Braces** from $\frac{3}{4}$ " plate & $\frac{1}{2}$ " plate with holes.
- 2) **7-New Fabricated Pipe Saddles** for 42" pipe from $\frac{3}{4}$ " plates & $\frac{1}{2}$ " plates with neoprene rubber.
- 3) **7-New Fabricated Pipe Straps** from $\frac{1}{2}$ "x4" flat-bars with bent ends neoprene rubber & shim plates.
- 4) **21- Filler Plates** 1" x 12" x various lengths at Strut Channels.
- 5) **2- New WT Braces** with new connection plates.
- 6) **Supply new erection plans and shop drawings.**
- 7) FSS to drill new holes in bottom flanges of plate girders for brace plate connections
- 8) FSS to drill new holes in plate girder stiffeners for new Flange Braces
- 9) FSS to drill new holes in Strut Channels for Flange Braces & Pipe Saddles.
- 10) FSS to supply all new $\frac{7}{8}$ " bolts for these connections.
- 11) FSS to supply all new bolts to fill empty holes in plate girders where required.
- 12) All steel to be prime painted with one coat of inorganic zinc paint per specs.

EXCLUSIONS:

1. **ENGINEERS SEAL ON SHOP DRAWINGS FOR DESIGN CALCULATIONS.**
2. **BOND**
3. Pipe hangers including rollers and threaded rods.
4. Elastomeric bearing pads.
5. Fencing shown on drawing 12 of 12.
6. Erection
7. Field measurements
8. Embeds
9. Galvanizing
10. Cold-formed light gage framing
11. All taxes: ie Florida sales/use tax, gross receipts tax, Excise tax, Duties, Port fees
12. All anchors, bolts, screws, brackets, hangers, wheels, etc., for other trades.
13. All other items not listed above.

NOTES:

1. Preparation of shop and erection drawings, material quality, fabrication, delivery, and erection shall be executed in accordance with "Code of Standard Practice for Steel Building and Bridges" as defined in AISC Manual of Steel Construction, Latest Edition, unless specifically noted otherwise in this document.
2. This quotation is based on size and type of materials designed by the architect/engineer for this project. Tampa Tank, Inc/Florida Structural Steel is not responsible for redesign or interpretation of these designs in order to meet federal, state or local building codes.
3. Payments will be made for materials delivered to the jobsite or stored in our warehouse or other approved locations upon presentation of our invoices.
4. Contractor or Owner shall carry All Risk Insurance to cover our materials stored or installed at the jobsite including our necessary labor to correct damages by others, including vandalism, fires, etc.
5. Payments due us are not contingent upon payments by others nor shall we waive our lien rights prior to receiving payments then due us.
6. We shall not be bound by any hold harmless agreement. We shall be liable for our own negligence only and that of our employees or the acts of our subcontractors.
7. Backcharges are not acceptable without our prior written approval.
8. Acceptance of all orders and shipments are subject to the approval of our credit department.
9. **Standard truck rate is \$125.00 per hour for standby waiting after 2 hours up to 4 hours and then an increased rate may apply or no further standby time may be available. Special tractors, trailers and/or permitted loads will require extra charges. Holding time may affect future scheduled loads due to turn around times being affected. Standby time may not be allowed due to schedules, permits etc.**
10. **ALL deliveries are daytime.**

- 11. Should delivery and/or installation of material be substantially delayed as a result of actions by the Owner, the Contractor or their representatives, Tampa Tank, Inc/Florida Structural Steel shall be compensated to cover actual costs plus overhead and profit as a result of such delays.
- 12. See final page of our quotation for further notes.
- 13. In the absence of a delivery schedule prior to bid date, any subsequent schedule will be on a mutually agreed upon basis.
- 14. Price is subject to review pending terms and conditions of contract that differ and/or conflict with this quotation.
- 15. Tampa Tank, Inc/Florida Structural Steel reserves the right to substitute any fasteners with ones of equal structural value, due to availability and/or minimum order requirements of those specified.
- 16. Testing and cost of testing by others.
- 17. Above prices are based on truckload shipments. Additional costs for lesser quantities to be added to the above price.
- 18. Upon acceptance of this proposal, the scope of work, exclusions, notes, terms and conditions noted herein shall be incorporated into and become a part of the sub-contract agreement.

LUMP SUM PRICE \$ 34,546.00

Approximate weight of new steel 16,205 pounds

This proposal is valid for 30 days. However, steel prices are fluctuating daily. At the time the owner/contractor is ready to place an order with FSS. FSS will then verify cost and availability of raw steel and confirm to the owner/contractor if pricing of this proposal is still valid, or advise the owner/contractor of any adjustments that may be necessary prior to placement of the order.

ACCEPTED BY BUYER

TTI/FSS

Wayne Volentine

Wayne Volentine
(813) 241-2461 ext 208

TAMPA TANK, INC / FLORIDA STRUCTURAL STEEL TERMS AND CONDITIONS

Unless altered in the typewritten portions of this proposal, the following shall prevail:

1. This proposal is for material and services as defined by the applicable code: Structural steel in accordance with the AISC Code of Standard Practice; Steel joist and accessories in accordance with the Code of Standard Practice of the Steel Joist Institute; Miscellaneous and architectural metals in accordance with the Code of Standard Practice of the National Association of Architectural Metal Manufacturers, all revised to this date thereof.
2. There are no other understandings between parties other than as set forth herein.
3. In the event of a conflict between terms and conditions of this proposal and the terms and conditions stated in the drawings and/or specifications, the terms of this proposal shall govern.
4. The Seller shall not be responsible for the accuracy, adequacy, or consistency of any information given by others.
5. Terms, unless noted otherwise are **NET 30 DAYS** from date of invoice, NO discount. The sums due shall bear interest after 30 days at the rate of 18% per annum or the legal minimum. Buyer agrees to pay all of the Sellers cost and expenses including reasonable attorney's fees and legal expenses, such as attorney's fees to include but not limited to, fees and cost incurred in all matters of collection and enforcement, construction and interpretation, before, during, and after trial proceedings and appeals, as well as appearances in and connected with any bankruptcy proceedings, creditors reorganization and arrangement proceedings or probate proceedings, arising out of, pertaining to or relating to this quotation as well as any and all contracts or agreements arising therefrom and in enforcing or defending the terms and provisions contained in any and all documents evidencing Buyer's liabilities to Sellers.
6. Acceptance, shipments and performance of this contract shall at all times be subject to the approval of the Sellers Credit Department.
7. When prices quoted are for delivery by Seller's truck, then delivery shall be f.o.b. trucks, jobsite, curbline, at the nearest accessible road or street in such a state of condition of repair as not to injure or cause undo hardship to Seller's personnel, trucks, or equipment. Unloading is not included. Buyer is to arrange for prompt unloading in order to avoid trucks delay.
8. The Seller shall not be responsible for delays in the performance in whole or in part of any contract made on the basis of this proposal resulting in whole or in part from cause out of control of Seller, including but not limited to fire; earthquake; flood; rainstorm; strikes; lockouts or other differences with workmen or employees; accidents; war; riots; embargoes; delays; losses or damages in transportation shortages in cars, fuel, labor, or material; delays of other companies or contractors, or any other contingencies beyond the reasonable control of the Seller whether occurring at the producing mills, the Seller's works, in route to the plant/jobsite, or at the jobsite. In the event of such delay, the time of completion shall be extended, as the circumstances require.
9. The Seller will replace any defective material under terms of this contract, within one year after deliver, upon presentation of evidence of such defects satisfactory to the Seller, but no claims for direct or consequential damage shall be allowed. The Buyer shall not fill any shortages nor return to the Seller any defective material or do any work for the Seller's account without specific written authorization from Seller. No payment shall be withheld by the Buyer pending adjustment of liability or the amount of the claim.

SUBJECT: Ellerbe Creek Crossing Modifications

10. When the Seller has delivered the material covered by this proposal to the jobsite or designated storage site, the Buyer shall assume full responsibility for the theft of and any damages to such material caused by but not limited to fire, accident, earthquake, flood, exposure, windstorm, war, riot, strikes, embargoes, or any other damage from whatever source not under control of the Seller.
11. The Seller shall not be responsible for any liquidated damages or penalties.
12. It is agreed that all payments hereunder are due and payable at Seller's place of business in Tampa, Hillsborough County, Florida. Acceptance by Seller at other places, including invoicing payable at lock box (es), shall not be deemed to constitute a waiver of foregoing agreement and, unless expressly prohibited by applicable state statute, it is agreed that suit hereunder may be brought in a court of competent jurisdiction in Hillsborough County, Florida, with any privilege of Buyer to be sued in county of residence or place of business to be waived.
13. EXCEPT AS OTHERWISE SET FORTH HEREIN, THERE ARE NO WARRANTIES EXPRESSED OR IMPLIED BY THE SELLER.

American Institute of Steel Construction

is proud to recognize

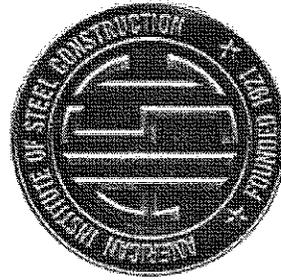
Florida Structural Steel

Tampa, FL

for successfully meeting the quality certification requirements for

**Standard for Steel Building Structures, Simple Steel Bridges and
Major Steel Bridges**

Fracture Critical Endorsement



Roger E. Ferch

Roger E. Ferch

Certification valid through November 2019