RESOLUTION NO. _____

A RESOLUTION AUTHORIZING THE ADMINISTRATOR OF THE DEPARTMENT OF PUBLIC WORKS TO AWARD CONTRACT NO. E-03-027-201 TO THOMAS BROTHERS CONSTRUCTION COMPANY, GOODWIN ROAD EXTENSION AND JENKINS ROAD AT IGOU GAP ROAD INTERSECTION IMPROVEMENT PROJECT, FOR A CONTRACT AMOUNT OF THREE MILLION FIVE HUNDRED THOUSAND TWO HUNDRED EIGHTY-FIVE AND 12/100 DOLLARS ($3,500,285.12), WITH A CONTINGENCY AMOUNT OF THREE HUNDRED FIFTY THOUSAND TWENTY-EIGHT AND 51/100 DOLLARS ($350,028.51), FOR AN AMOUNT NOT TO EXCEED THREE MILLION EIGHT HUNDRED FIFTY THOUSAND THREE HUNDRED THIRTEEN AND 63/100 DOLLARS ($3,850,313.63).

_____

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF CHATTANOOGA, TENNESSEE, that the Administrator of the Department of Public Works be and is hereby authorized to award Contract No. E-03-027-201 to Thomas Brothers Construction Company, Goodwin Road Extension and Jenkins Road at Igou Gap Road Intersection Improvement Project, for a contract amount of $3,500,285.12, with a contingency amount of $350,028.51, for an amount not to exceed $3,850,313.63.

ADOPTED: _____, 2013

/mms

City of Chattanooga

Resolution/Ordinance Request Form

Date Prepared: August 20, 2013

Preparer: Dennis Malone **Department: Public Works**

Brief Description of Purpose for Resolution/Ordinance: Res./Ord. # _____ Council District # 4

A City Council resolution is requested to award Contract No. E-03-027-201, Goodwin Road Extension and Jenkins Road at Igou Gap Road Intersection Improvement Project, to Thomas Brothers Construction Company, Inc., for a contract amount of $3,500,285.12, with a contingency amount of $350,028.51, for a not-to-exceed amount of $3,850,313.63.

Name of Vendor/Contractor/Grant, etc.	Thomas Brothers Construction Company, Inc.	New Contract/Project? (Yes or No)	Yes
Total project cost	$ 3,850,313.63	Funds Budgeted? (YES or NO)	No (Pending)
Total City of Chattanooga Portion	$ 3,850,313.63	Provide Fund	4016
City Amount Funded	$ 0.00	Provide Cost Center	See Below
New City Funding Required	$ 3,850,313.63	Proposed Funding Source if not budgeted	FY14 Capital
City's Match Percentage	%	Grant Period (if applicable)	

List all other funding sources and amount for each contributor.

Amount(s)	Grantor(s)
$2,350,313.63	4016 - K12105 Road Improvements- Goodwin Road
$1,500,000.00	4016 - K Needed Roundabout - Igou Gap Road at Jenkins Road

Agency Grant Number

CFDA Number if known

Other comments: (Include contingency amount, contractor, and other information useful in preparing resolution)

Funding per FY14 Capital Funds

Approved by: _____

Reviewed by: FINANCE OFFICE DESIGNATED OFFICIAL/ADMINISTRATOR

Please submit completed form to @budget, City Attorney and City Finance Officer

Revised: 1/26/09

VOLKERT

www.volkert.com
1428 Chestnut Street
Suite C
Chattanooga, TN 37402
423.842.3335
Fax 423.842.8630
chattanooga@volkert.com

August 19, 2013

Mr. William C. Payne, P.E.
City Engineering
City of Chattanooga
Development Resource Center (DRC)
1250 Market Street, Suite 2100

RE: Goodwin Road Extension and Jenkins Road at Igou Gap Road Intersection Improvements, Contract No. E-03-027

Dear Mr. Payne:

Bids for Goodwin Road Extension and Jenkins Road at Igou Gap Road Intersection Improvements, Contract No. E-03-027, were received on August 16th , 2013 at 2:00 PM EDT at City Hall, Purchasing Department, Suite G-13.

Three contractors submitted qualified bids on the project, the summary of which is attached. The three contractors were Thomas Brothers Construction Company, Talley Construction Company, and Wright Brothers Construction Company.

I have reviewed the bids and have determined that the lowest qualified bid submitted by Thomas Brothers Construction Company, Inc. is acceptable. The Unit Prices for the items of work are usual and reasonable, and I have determined that Thomas Brothers Construction Company, Inc is a reputable contractor. I spoke with the contractor, and they have assured me that they have personnel and equipment available to construct the project in a timely and professional manner.

I therefore recommend to you, the representative of the City of Chattanooga, that the contract be awarded to Thomas Brothers Construction Company, Inc.

The bid price for the contract is $ 3,500,285.12, and a contingency amount of $350,028.51 will be added to the contract bringing the total contract amount to $ 3,850,313.63.

Very Truly Yours,
VOLKERT, INC.

Christopher L. Davis, P.E.
Project Manager
Volkert, Inc.

Item Number	Item Description	Unit	Quantity	Thomas Brothers Construction Co. Inc. 7849 Dayton Pike Hixson, TN 37343 Unit Price	Total For Item	Verified Calculation	Talley Const. 1751 McFarland AV Rossville, GA 30741 Unit Price	Total For Item	Verified Calculation	Wright Brothers Construction Company, Inc. 1500 Lauderdale Memorial Highway, P.O. Box 437 Charleston, TN 37310-0437 Unit Price	Total For Item	Verified Calculation
001-1	Common and/or Borrow Excavation and Embankment	LS	1	$ 160,000.00	$ 160,000.00	$ 160,000.00	$ 318,638.57	$ 318,638.57	$ 318,638.57	$ 271,678.49	$ 271,678.49	$ 271,678.49
001-2	Undercut and Removal of Unsuitable Material	CY	400	$ 8.00	$ 3,200.00	$ 3,200.00	$ 17.81	$ 7,124.00	$ 7,124.00	$ 9.12	$ 3,648.00	$ 3,648.00
001-3	Backfill and Compact under cut areas with mineral aggregate stone base (33-P)	CY	400	$ 40.00	$ 16,000.00	$ 16,000.00	$ 52.93	$ 21,172.00	$ 21,172.00	$ 42.63	$ 17,052.00	$ 17,052.00
001-4	Mass Rock Excavation	CY	1080	$ 30.00	$ 32,400.00	$ 32,400.00	$ 65.00	$ 70,200.00	$ 70,200.00	$ 37.41	$ 40,402.80	$ 40,402.80
001-5	Trench Rock Excavation (pipe and bioswale quantities)	CY	720	$ 80.00	$ 57,600.00	$ 57,600.00	$ 81.09	58384.8	$ 58,384.80	$ 81.26	58507.2	$ 58,507.20
001-6	Surge Stone installation to bridge soft areas	Ton	750	$ 23.00	$ 17,250.00	$ 17,250.00	$ 23.18	$ 17,385.00	$ 17,385.00	$ 23.09	$ 17,317.50	$ 17,317.50
003-1	8" Class "A" Concrete Roadway Including, excavation, granite concrete, dowel and tie bars, joint sealing, transverse grooved, etc. (Complete-In-Place)	SF	58600	$ 5.59	$ 327,574.00	$ 327,574.00	$ 5.72	$ 335,192.00	$ 335,192.00	$ 7.38	$ 432,468.00	$ 432,468.00
003-2	6" Concrete driveway aprons, including excavation, stone base, reinforcing steel, etc. per SD-202.02 (Complete-In-Place)	SF	1512	$ 6.80	$ 10,281.60	$ 10,281.60	$ 7.13	$ 10,780.56	$ 10,780.56	$ 8.99	$ 13,592.88	$ 13,592.88
003-3	Handicap ramps per SD-205.01, SD-205.02, and DT-01	EA	25	$ 350.00	$ 8,750.00	$ 8,750.00	$ 378.00	$ 9,450.00	$ 9,450.00	$ 399.19	$ 9,979.75	$ 9,979.75
003-4	Concrete Bicycle Ramps	EA	11	$ 320.00	$ 3,520.00	$ 3,520.00	$ 345.60	$ 3,801.60	$ 3,801.60	$ 364.97	$ 4,014.67	$ 4,014.67
003-6	8" Stamped Concrete Truck Apron (colored red) including exc., concrete, dowel bars, joint sealing, etc.	SF	8220	$ 10.97	$ 90,173.40	$ 90,173.40	$ 9.94	$ 81,706.80	$ 81,706.80	$ 11.94	$ 98,146.80	$ 98,146.80
003-7	4" Natural Concrete Sidewalk Including excavation, concrete base stone (2" thickness), etc. (Complete-In-Place)	SF	40400	$ 4.53	$ 183,012.00	$ 183,012.00	$ 4.44	179376	$ 179,376.00	$ 4.94	199576	$ 199,576.00
003-8	6" Concrete Splitter Island	SF	5606	$ 4.95	$ 27,749.70	$ 27,749.70	$ 4.63	$ 25,955.78	$ 25,955.78	$ 5.30	$ 29,711.80	$ 29,711.80
003-9	6" Concrete driveway tie-in (behind apron), including excavation, stone base, etc. per SD-703.01 (Complete-In-Place)	SF	170	$ 8.34	$ 1,417.80	$ 1,417.80	$ 9.96	1693.2	$ 1,693.20	$ 9.51	1616.7	$ 1,616.70
003-10	Colored concrete manhole collar	EA	1	$ 350.00	$ 350.00	$ 350.00	$ 378.00	378	$ 378.00	$ 399.18	399.18	$ 399.18
005-1	Relocate Sanitary Sewer Service Line Including 4" PVC Pipe Fittings, Exc. Bedding, Stone Backfill etc (complete-in-place)	LF	100	$ 45.00	$ 4,500.00	$ 4,500.00	$ 43.69	$ 4,369.00	$ 4,369.00	$ 45.62	$ 4,562.00	$ 4,562.00
005-2	Sanitary Sewer Cleanout Assembly (complete-in-place)	EA	3	$ 450.00	$ 1,350.00	$ 1,350.00	$ 478.53	1435.59	$ 1,435.59	$ 912.44	2737.32	$ 2,737.32
005-3	Install new sanitary sewer service line to property northwest of Goodwin Rd./ Jenkins Road intersection, Sta 103+20 (LT). Including connection to main, 60 LF of 4" PVC sewer line, one cleanout at R.O.W. line, Fittings, etc. (complete-in-place)	LS	1	$ 3,500.00	$ 3,500.00	$ 3,500.00	$ 5,145.75	5145.75	$ 5,145.75	$ 10,000.00	10000	$ 10,000.00
011-1	6" Roller Compacted Concrete Base	SF	121800	$ 2.13	$ 259,434.00	$ 259,434.00	$ 2.28	277704	$ 277,704.00	$ 2.45	298410	$ 298,410.00
012-1	1-1/2" Asphalt Surface -- See new City Spec. Item 12 (½-inch Nominal Aggregate Size JMF)	SF	147800	$ 0.76	$ 112,328.00	$ 112,328.00	$ 0.85	125630	$ 125,630.00	$ 0.83	122674	$ 122,674.00

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012-2	3-1/2" Asphalt Binder -- See new City Spec. Item 12 (1½-inch Nominal Aggregate Size JMF)	SF	121800	$ 1.67	$ 203,406.00	$ 203,406.00	$ 1.76	214368	$ 214,368.00	$ 1.63	198534	$ 198,534.00
012-3	Asphalt driveway tie-ins (behind apron) including excavation, mineral aggregate base, binder and surface asphalt, etc. Pavement Sch per City Std. SD-703.01 (Complete-In-Place)	SF	2900	$ 6.42	$ 18,618.00	$ 18,618.00	$ 4.04	$ 11,716.00	$ 11,716.00	$ 5.42	$ 15,718.00	$ 15,718.00
012-4	Prime Coat	SY	13535	$ 1.20	$ 16,242.00	$ 16,242.00	$ 2.61	35326.35	$ 35,326.35	$ 1.21	16377.35	$ 16,377.35
012-5	Tack Coat	SY	16333	$ 0.39	$ 6,369.87	$ 6,369.87	$ 0.54	$ 8,819.82	$ 8,819.82	$ 0.27	$ 4,409.91	$ 4,409.91
015-1	Unclassified demolition of existing pavement, curbs, sidewalks, walls, fences, conc. slabs, parking areas, pipes, and drainage structures. Include removal, disposal and sawcutting where necessary	LS	1	$ 25,000.00	$ 25,000.00	$ 25,000.00	$ 36,365.52	36365.52	$ 36,365.52	$ 33,532.04	33532.04	$ 33,532.04
015-2	Building demolition of Hair Port, Igou Gap at Jenkins Rd, including all necessary permits and utility disconnects	LS	1	$ 7,500.00	$ 7,500.00	$ 7,500.00	$ 6,655.20	$ 6,655.20	$ 6,655.20	$ 55,886.74	$ 55,886.74	$ 55,886.74
015-3	Removal of temporary traffic control runaround at the NE corner of Igou Gap Rd. and Jenkins Rd.	LS	1	$ 2,000.00	$ 2,000.00	$ 2,000.00	$ 2,597.31	2597.31	$ 2,597.31	$ 5,000.00	5000	$ 5,000.00
017-1	Type "A" Concrete Curb & Gutter (SD-202.01) Concrete & Base Stone (complete-in-place)	LF	8670	$ 18.38	$ 159,354.60	$ 159,354.60	$ 20.94	181549.8	$ 181,549.80	$ 20.39	176781.3	$ 176,781.30
017-3	2'-3" Truck Apron Curb	LF	970	$ 21.40	$ 20,758.00	$ 20,758.00	$ 21.60	20952	$ 20,952.00	$ 24.41	23677.7	$ 23,677.70
017-4	12" Mountable Curb (Splitter and central island)	LF	2312	$ 18.00	$ 41,616.00	$ 41,616.00	$ 19.44	$ 44,945.28	$ 44,945.28	$ 18.25	$ 42,194.00	$ 42,194.00
017-5	24" Wide x 8" Drop Curb, Sta. 121+16 to 131+83	LF	1067	$ 20.90	$ 22,300.30	$ 22,300.30	$ 19.44	20742.48	$ 20,742.48	$ 21.56	23004.52	$ 23,004.52
019-1	Tree and Stump Removal within the Project Limits	LS	1	$ 45,000.00	$ 45,000.00	$ 45,000.00	$ 37,249.57	37249.57	$ 37,249.57	$ 48,972.91	48972.91	$ 48,972.91
031-1	15" RCP Class III. Including excavation, bedding, backfill, connections to MH's, etc. (complete-in-place)	LF	1756	$ 41.00	$ 71,996.00	$ 71,996.00	$ 53.17	$ 93,366.52	$ 93,366.52	$ 50.10	$ 87,975.60	$ 87,975.60
031-2	18" RCP Class III. Including excavation, bedding, backfill, connections to MH's, etc. (complete-in-place)	LF	682	$ 45.00	$ 30,690.00	$ 30,690.00	$ 63.53	$ 43,327.46	$ 43,327.46	$ 64.86	$ 44,234.52	$ 44,234.52
031-3	24" RCP Class III. Including excavation, bedding, backfill, connections to MH's, etc. (complete-in-place)	LF	68	$ 58.00	$ 3,944.00	$ 3,944.00	$ 101.56	$ 6,906.08	$ 6,906.08	$ 71.80	$ 4,882.40	$ 4,882.40
031-4	30" RCP Class III. Including excavation, bedding, backfill, connections to MH's, etc. (complete-in-place)	LF	210	$ 83.00	$ 17,430.00	$ 17,430.00	$ 110.16	23133.6	$ 23,133.60	$ 87.99	18477.9	$ 18,477.90
031-5	36" RCP Class III. Including excavation, bedding, backfill, connections to MH's, etc. (complete-in-place)	LF	94	$ 103.00	$ 9,682.00	$ 9,682.00	$ 139.97	13157.18	$ 13,157.18	$ 100.78	9473.32	$ 9,473.32
031-5	8' x 4' Concrete Box Culvert including excavation, backfill, etc. (complete-in-place)	LF	146	$ 490.00	$ 71,540.00	$ 71,540.00	$ 499.81	72972.26	$ 72,972.26	$ 706.10	103090.6	$ 103,090.60
031-6	24" CMP for Temporary Runaround at Igou Gap / Jenkins Rd. (including installation and removal)	LF	70	$ 55.00	$ 3,850.00	$ 3,850.00	$ 48.00	$ 3,360.00	$ 3,360.00	$ 71.71	$ 5,019.70	$ 5,019.70

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				Unit Price	Total For Item	Verified Calculation	Unit Price	Total For Item	Verified Calculation	Unit Price	Total For Item	Verified Calculation
034-1	Eccentric Curb Inlet (per SD-610.01 thru SD-610.04) 4' DIA Including excavation, backfill, foundation, reinforcing steel, etc (complete-in-place)	EA	26	$ 2,500.00	$ 65,000.00	$ 65,000.00	$ 2,731.71	71180.46	$ 71,024.46	$ 414.22	10769.72	$ 10,769.72
034-2	Low Point Curb Inlet (per SD-610.01 thru SD-610.04) 4' DIA Including excavation, backfill, foundation, reinforcing steel, etc (complete-in-place)	EA	10	$ 1,600.00	$ 16,000.00	$ 16,000.00	$ 2,849.70	28497	$ 28,497.00	$ 3,912.07	39120.7	$ 39,120.70
034-3	Manhole / Junction Box, SD-600.01 - 4' DIA Including frame & cover, excavation, backfill, foundation, reinf. steel, etc.(complete-in-place)	EA	3	$ 1,400.00	$ 4,200.00	$ 4,200.00	$ 2,727.48	8182.44	$ 8,182.44	$ 3,912.07	11736.21	$ 11,736.21
034-4	Manhole / Junction Box, SD-600.01 - 5' DIA Including frame & cover, excavation, backfill, foundation, reinf. steel, etc.(complete-in-place)	EA	1	$ 2,100.00	$ 2,100.00	$ 2,100.00	$ 3,429.89	3429.89	$ 3,429.89	$ 3,912.07	3912.07	$ 3,912.07
034-5	Manhole / Junction Box, SD-600.01 - 7' DIA Including frame & cover, excavation, backfill, foundation, reinf. steel, etc.(complete-in-place)	EA	1	$ 3,000.00	$ 3,000.00	$ 3,000.00	$ 5,247.18	5247.18	$ 5,247.18	$ 3,912.08	3912.08	$ 3,912.08
034-6	Drop Inlet, SD-606.01 and SD-607.01 - 4' DIA Including frame & cover, excavation, backfill, foundation, reinf. steel, etc.(complete-in-place)	EA	3	$ 1,400.00	$ 4,200.00	$ 4,200.00	$ 2,606.63	7819.89	$ 7,819.89	$ 3,912.07	11736.21	$ 11,736.21
034-7	Box Culvert Headwall with wingwalls (See TDOT STD-15-09 thru STD-15-12 and STD-15-25 thru STD-15-29) Including excavation, backfill, foundation, reinforcing, steel etc (complete-in-place)	EA	4	$ 2,500.00	$ 10,000.00	$ 10,000.00	$ 2,552.97	10211.88	$ 10,211.88	$ 15,126.46	60505.84	$ 60,505.84
034-8	15" Concrete flared end section (per SD-605.01)	EA	7	$ 650.00	$ 4,550.00	$ 4,550.00	$ 604.56	$ 4,231.92	$ 4,231.92	$ 580.56	$ 4,063.92	$ 4,063.92
034-9	18" Concrete flared end section (per SD-605.01)	EA	1	$ 650.00	$ 650.00	$ 650.00	$ 604.54	$ 604.54	$ 604.54	$ 580.56	$ 580.56	$ 580.56
034-10	36" Concrete "U" End Wall (per TDOT Std D-PE-3B(1)	EA	2	$ 1,800.00	$ 3,600.00	$ 3,600.00	$ 1,693.80	3387.6	$ 3,387.60	$ 1,425.68	2851.36	$ 2,851.36
034-11	15" Safety End Section (per TDOT Std D-PE-6B (1) and (2)	EA	7	$ 1,350.00	$ 9,450.00	$ 9,450.00	$ 1,490.66	10434.62	$ 10,434.62	$ 922.09	6454.63	$ 6,454.63
034-12	18" Concrete Type-W End Wall (per SD-604.01)	EA	1	$ 800.00	$ 800.00	$ 800.00	$ 604.54	$ 604.54	$ 604.54	$ 2,682.56	$ 2,682.56	$ 2,682.56
034-13	30" Concrete Type-W End Wall (per SD-604.01)	EA	1	$ 1,000.00	$ 1,000.00	$ 1,000.00	$ 1,069.43	1069.43	$ 1,069.43	$ 3,129.66	3129.66	$ 3,129.66
034-14	36" Concrete Type-W End Wall (per SD-604.01)	EA	1	$ 1,100.00	$ 1,100.00	$ 1,100.00	$ 1,069.43	$ 1,069.43	$ 1,069.43	$ 3,800.30	$ 3,800.30	$ 3,800.30
034-15	Convert MH to Eccentric Curb Inlet	EA	2	$ 1,200.00	$ 2,400.00	$ 2,400.00	$ 1,734.30	3468.6	$ 3,468.60	$ 1,083.53	2167.06	$ 2,167.06
034-16	Build Eccentric Curb Inlet (per SD-610.01 thru SD-610.04) 4' DIA on Box Culvert Including excavation, backfill, foundation, reinf. steel, etc. (Struc. C-2 and C-3) (complete-in-place)	EA	2	$ 1,500.00	$ 3,000.00	$ 3,000.00	$ 1,832.52	$ 3,665.04	$ 3,665.04	$ 2,623.26	$ 5,246.52	$ 5,246.52
034-16	Adjusting Existing Manhole Frames and Covers, Inlets, and Catch Basins to proposed line and grade	EA	4	$ 500.00	$ 2,000.00	$ 2,000.00	$ 432.00	1728	$ 1,728.00	$ 502.98	2011.92	$ 2,011.92
035-1	Topsoil, (permanent) Seeding and Mulching including exc, backfill, foundation, 3" approved topsoil, fertilizer, seed and mulch inside constr. limits (complete-in-place)	SY	**23000**	$ 1.00	$ 23,000.00	$ 23,000.00	$ 4.30	$ 98,900.00	$ 98,900.00	$ 4.58	$ 105,340.00	$ 105,340.00

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074-2	Truncated Dome blocks, 12"x12" grouted in place (manf. by ECG Inc. See DT-01 and Spec. Appendix-A)	SF	390	$ 40.00	$ 15,600.00	$ 15,600.00	$ 23.76	$ 9,266.40	$ 9,266.40	$ 25.09	$ 9,785.10	$ 9,785.10
075-1	Milling of Asphalt roadway (1.5" below finish grade)	SF	26000	$ 0.39	$ 10,140.00	$ 10,140.00	$ 0.31	8060	$ 8,060.00	$ 0.57	14820	$ 14,820.00
098-1	Erosion Control Inlet Protection - Silt-Saver, Siltsack, Gutterbuddy, or as directed by City Storm Water Dept (Complete-In-Place)	EA	44	$ 165.00	$ 7,260.00	$ 7,260.00	$ 224.47	9876.68	$ 9,876.68	$ 190.13	8365.72	$ 8,365.72
098-2	Sediment Filter Bag	EA	1	$ 250.00	$ 250.00	$ 250.00	$ 468.09	468.09	$ 468.09	$ 1,140.55	1140.55	$ 1,140.55
098-3	Rock Silt Screen	EA	5	$ 350.00	$ 1,750.00	$ 1,750.00	$ 513.09	2565.45	$ 2,565.45	$ 1,140.55	5702.75	$ 5,702.75
098-4	Rock Check Dam	EA	4	$ 250.00	$ 1,000.00	$ 1,000.00	$ 804.00	3216	$ 3,216.00	$ 1,140.55	4562.2	$ 4,562.20
098-5	Outlet Protection - Machined Riprap Class A1	Ton	20	$ 25.00	$ 500.00	$ 500.00	$ 41.61	832.2	$ 832.20	$ 41.42	828.4	$ 828.40
098-6	Outlet Protection - Machined Riprap Class A1	Ton	100	$ 25.00	$ 2,500.00	$ 2,500.00	$ 41.61	4161	$ 4,161.00	$ 41.42	4142	$ 4,142.00
098-7	Outlet Protection - Machined Riprap Class A1	Ton	33	$ 25.00	$ 825.00	$ 825.00	$ 41.61	1373.13	$ 1,373.13	$ 42.06	1387.98	$ 1,387.98
098-8	High Visibility Fence	LF	600	$ 1.35	$ 810.00	$ 810.00	$ 2.07	1242	$ 1,242.00	$ 1.56	936	$ 936.00
098-9	Erosion Control, including silt soxx, diversion dikes, temp. seeding, etc. as shown on the erosion control plans and as directed by City Storm Water Dept.(complete-in-place)	LS	1	$ 37,000.00	$ 37,000.00	$ 37,000.00	$ 28,268.07	28268.07	$ 28,268.07	$ 153,327.68	153327.68	$ 153,327.68
100-1	Traffic Control Including Barrels with Lights and Type III Barricades with flashers, Per MUTCD and provided traffic control plan.	LS	1	$ 6,610.00	$ 6,610.00	$ 6,610.00	$ 7,138.80	7138.8	$ 7,138.80	$ 12,445.86	12445.86	$ 12,445.86
100-2	Traffic Control Temporary Signage (per sign)	EA	50	$ 110.00	$ 5,500.00	$ 5,500.00	$ 118.80	$ 5,940.00	$ 5,940.00	$ 112.90	$ 5,645.00	$ 5,645.00
100-3	Special Traffic Control Detour Signs as directed by the City	SF	30	$ 16.34	$ 490.20	$ 490.20	$ 529.42	$ 15,882.60	$ 15,882.60	$ 9.03	$ 270.90	$ 270.90
100-4	Additional Type III Barricades with flashers as directed by City	EA	2	$ 460.00	$ 920.00	$ 920.00	$ 496.80	$ 993.60	$ 993.60	$ 197.59	$ 395.18	$ 395.18
100-5	Additional Traffic Control Barrels with Lights	EA	10	$ 490.00	$ 4,900.00	$ 4,900.00	$ 529.20	5292	$ 5,292.00	$ 67.74	677.4	$ 677.40
100-6	Early installation and maintenance of traffic control devices, per provided traffic control plan for the purpose of utility relocation.	Month	1	$ 5,000.00	$ 5,000.00	$ 5,000.00	$ 540.00	540	$ 540.00	$ 564.51	564.51	$ 564.51
303-01	Mineral Aggregate (TDOT 303-01) Runaround and other Locations as directed by the Engineer for Traffic Control	TON	200	$ 25.00	$ 5,000.00	$ 5,000.00	$ 32.50	$ 6,500.00	$ 6,500.00	$ 28.36	$ 5,672.00	$ 5,672.00
304-01	Soil-Cement Base - including 67.5 lb. Portland Cement / SY and processing to a depth of 9" (subgrade improvement)	SY	4000	$ 7.13	$ 28,520.00	$ 28,520.00	$ 7.70	30800	$ 30,800.00	$ 8.22	32880	$ 32,880.00
309-01	Aggregate-Cement Base 4" thickness (under ready mix conc. pvmt, truck apron, conc. islands) 5% PC by dry unit weight	SF	76920	$ 0.97	$ 74,612.40	$ 74,612.40	$ 1.38	$ 106,149.60	$ 106,149.60	$ 1.85	$ 142,302.00	$ 142,302.00
705-02.02	Single Guardrail (Type 2) per TDOT S-GR-13 and S-GR-18	LF	220	$ 16.00	3520	$ 3,520.00	$ 19.98	4395.6	$ 4,395.60	$ 39.12	8606.4	$ 8,606.40
705-04.03	Guardrail Terminal (Type 13) per TDOT S-GR-19C	EA	1	$ 650.00	$ 650.00	$ 650.00	$ 648.00	$ 648.00	$ 648.00	$ 2,235.47	$ 2,235.47	$ 2,235.47

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705-04.05	Guardrail Terminal (Type In-Line) per TDOT S-GR-18	EA	1	$ 650.00	650	$ 650.00	$ 648.00	648	$ 648.00	$ 2,235.47	2235.47	$ 2,235.47
717-1	Mobilization, including bid bond, performance bond, payment bond, etc.	LS	1	$ 632,000.00	$ 632,000.00	$ 632,000.00	$ 291,132.14	$ 291,132.14	$ 291,132.14	$ 243,943.02	$ 243,943.02	$ 243,943.02
717-2	Early staking of all drainage structures, and Proposed R.O.W. at both Jenkins Rd Intersections (Batters Place and Igou Gap, complete by 9/02/13 for the purpose of utility relocation.	LS	1	$ 5,000.00	5000	$ 5,000.00	$ 4,752.00	4752	$ 4,752.00	$ 2,906.11	2906.11	$ 2,906.11
1000-1	Permanent Signage per SM-01 thru SM-10 (Complete in place)	LS	1	$ 10,370.00	10370	$ 10,370.00	$ 11,199.60	11199.6	$ 11,199.60	$ 19,757.94	19757.94	$ 19,757.94
1000-2	Permanent Thermoplastic Pavement Markings per SM-01 thru SM-10 (Complete in place)	LS	1	$ 42,124.00	42124	$ 42,124.00	$ 38,772.00	38772	$ 38,772.00	$ 40,532.00	40532	$ 40,532.00
1000-3	Temporary Pavement Marking	LF	2000	$ 0.50	$ 1,000.00	$ 1,000.00	$ 1.30	$ 2,600.00	$ 2,600.00	$ 0.68	$ 1,360.00	$ 1,360.00
1000-4	Office Trailer - Small (location to be determined)	LS	1	$ 4,500.00	$ 4,500.00	$ 4,500.00	$ 8,489.66	$ 8,489.66	$ 8,489.66	$ 29,983.24	$ 29,983.24	$ 29,983.24
2810-1	Landscaping- ARO complete in place	EA	20	$ 185.00	3700	$ 3,700.00	$ 199.80	3996	$ 3,996.00	$ 391.21	7824.2	$ 7,824.20
2810-2	Landscaping- ASM complete in place	EA	1	$ 220.00	220	$ 220.00	$ 237.60	237.6	$ 237.60	$ 391.20	391.2	$ 391.20
2810-3	Landscaping- BND complete in place	EA	15	$ 220.00	3300	$ 3,300.00	$ 237.60	3564	$ 3,564.00	$ 670.64	10059.6	$ 10,059.60
2810-4	Landscaping- IFS complete in place	EA	100	$ 146.00	14600	$ 14,600.00	$ 157.68	15768	$ 15,768.00	$ 312.97	31297	$ 31,297.00
2810-5	Landscaping- ILA complete in place	EA	91	$ 138.00	12558	$ 12,558.00	$ 149.04	13562.64	$ 13,562.64	$ 391.21	35600.11	$ 35,600.11
2810-6	Landscaping- INS complete in place	EA	86	$ 146.00	*12556*	$ 12,556.00	$ 157.68	13560.48	$ 13,560.48	$ 335.32	28837.52	$ 28,837.52
2810-7	Landscaping- LSA complete in place	EA	3	$ 185.00	555	$ 555.00	$ 199.80	599.4	$ 599.40	$ 363.26	1089.78	$ 1,089.78
2810-8	Landscaping- QNI complete in place	EA	3	$ 185.00	555	$ 555.00	$ 199.80	599.4	$ 599.40	$ 698.58	2095.74	$ 2,095.74
2810-9	Landscaping- QPS complete in place	EA	9	$ 190.00	1710	$ 1,710.00	$ 205.20	1846.8	$ 1,846.80	$ 698.58	6287.22	$ 6,287.22
2810-10	Landscaping- UPN complete in place	EA	7	$ 192.00	1344	$ 1,344.00	$ 207.36	1451.52	$ 1,451.52	$ 603.58	4225.06	$ 4,225.06
2810-11	4" shredded hardwood bark mulch complete in place	SY	143	$ 6.00	858	$ 858.00	$ 6.48	926.64	$ 926.64	$ 10.06	1438.58	$ 1,438.58
2810-12	All Landscaping for Stream Relocation per DT-03	LS	1	$ 1,035.00	1035	$ 1,035.00	$ 1,117.80	1117.8	$ 1,117.80	$ 1,901.27	1901.27	$ 1,901.27
2810-13	Landscaping-Tulip Poplar (liriodendron tulipifera) 4" caliper installed in center of roundabouts	EA	3	$ 275.00	825	$ 825.00	$ 297.00	891	$ 891.00	$ 866.24	2598.72	$ 2,598.72
2820-1	Landscaping Maintenance per specification, to be paid out of retainage per month after substantial completion	MO	12	$ 350.00	4200	$ 4,200.00	$ 540.00	6480	$ 6,480.00	$ 3,576.75	42921	$ 42,921.00
Supplemental Information												
SI-2245-1	Landscape boulders and stone outlet treatment (complete in place)	TON	270	$ 50.00	13500	$ 13,500.00	$ 282.51	76277.7	$ 76,277.70	$ 363.26	98080.2	$ 98,080.20
SI-2480-1	Fescue sod including 4" approved topsoil, (complete in place)	SY	6150	$ 2.40	$ 14,760.00	$ 14,760.00	$ 14.17	$ 87,145.50	$ 87,145.50	$ 4.47	$ 27,490.50	$ 27,490.50

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SI-2700-1	8" Perforated HDPE (N-12) Pipe Including excavation, fittings, connections to cleanouts, etc. (complete-in-place)	LF	1300	$ 16.00	$ 20,800.00	$ 20,800.00	$ 10.29	$ 13,377.00	$ 13,377.00	$ 22.25	$ 28,925.00	$ 28,925.00
SI-2700-2	8" Solid HDPE (N-12) Pipe Including excavation, bedding, backfill, fittings, connections, etc. (complete-in-place)	LF	90	$ 16.00	$ 1,440.00	$ 1,440.00	$ 29.73	$ 2,675.70	$ 2,675.70	$ 32.04	$ 2,883.60	$ 2,883.60
SI-2700-3	Filter Fabric (Bioswale and underdrain quantity only) woven monofilament (see DT-02) (complete in place)	SY	4800	$ 2.00	$ 9,600.00	$ 9,600.00	$ 3.13	$ 15,024.00	$ 15,024.00	$ 4.56	$ 21,888.00	$ 21,888.00
SI-2700-4	#57 Stone (underdrain and 12" x 24" diaphragm quantities only)	Ton	210	$ 25.00	$ 5,250.00	$ 5,250.00	$ 29.06	$ 6,102.60	$ 6,102.60	$ 39.92	$ 8,383.20	$ 8,383.20
SI-2935-1	24" Bioretention Media (In-place quantity)	CY	1240	$ 80.00	$ 99,200.00	$ 99,200.00	$ 85.37	$ 105,858.80	$ 105,858.80	$ 95.09	$ 117,911.60	$ 117,911.60
SI-2935-2	Sand-grown fescue sod, complete in place (Above bioretention media)	SY	2025	$ 3.85	$ 7,796.25	$ 7,796.25	$ 4.16	$ 8,424.00	$ 8,424.00	$ 7.27	$ 14,721.75	$ 14,721.75
	TOTAL BASE BID - CONTRACT # E-03-044				**$ 3,393,101.12**	**$ 3,393,101.12**		**$ 3,687,454.74**	**$ 3,687,298.74**		**$ 4,088,020.65**	**$ 4,088,020.65**
	Total Pavement Alternate (Base Bid at 121800 SF)					**$ 555,408.00**			**$ 595,602.00**			**$ 598,038.00**
	PAVEMENT ALTERNATE A (ASPHALT PVMT W/ CTB)											
001-1A	Add/Deduct Earthwork associated with Alternate A	LS	1	$ 11,000.00	$ 11,000.00	$ 11,000.00	$ 8,120.85	$ 8,120.85	$ 8,120.85	$ 10,041.22	$ 10,041.22	$ 10,041.22
309-01A	Aggregate-Cement Base 9" thickness (in-lieu of 6" RCC) 5% PC by dry unit weight	SF	121800	$ 2.50	$ 304,500.00	$ 304,500.00	$ 2.56	$ 311,808.00	$ 311,808.00	$ 2.63	$ 320,334.00	$ 320,334.00
	Total Pavement Alternate A					$ 611,474.00			$ 637,826.85			$ 630,003.22
	PAVEMENT ALTERNATE B (FULL DEPTH ASPHALT PVMT)											
012-6B	Bituminous Plant Mix Base 6" Thickness (in-lieu of 6" RCC) - See new City Spec. Item 12 (1½-inch Nominal Aggregate Size JMF)	SF	121800	$ 3.01	$ 366,618.00	$ 366,618.00	$ 3.00	$ 365,400.00	$ 365,400.00	$ 2.48	$ 302,064.00	$ 302,064.00
	Total Pavement Alternate B					$ 662,592.00			$ 683,298.00			$ 601,692.00
	PAVEMENT ALTERNATE C (Asphalt Pvmt. w/ Min. Agg. Base)											
001-1C	Add/Deduct Earthwork associated with Alternate C	LS	1	$ 20,000.00	$ 20,000.00	$ 20,000.00	$ 24,848.82	$ 24,848.82	$ 24,848.82	$ 25,103.04	$ 25,103.04	$ 25,103.04
303-01C	Mineral Aggregate Base, Type A Grading D, 15" Thickness (in-lieu of 6" RCC)	SF	121800	$ 2.30	$ 280,140.00	$ 280,140.00	$ 2.20	$ 267,960.00	$ 267,960.00	$ 2.29	$ 278,922.00	$ 278,922.00
	Total Pavement Alternate C					$ 596,114.00			$ 610,706.82			$ 603,653.04
	PAVEMENT ALTERNATE D (9" Full Depth RCC Pavement with Diamond Ground Surface)											
001-1D	Add/Deduct Earthwork associated with Alternate D	LS	1	$ 15,000.00	$ 15,000.00	$ 15,000.00	$ -	$ -	$ -	$ 7,363.81	$ 7,363.81	$ 7,363.81
011-2D	9.5" Roller Compacted Concrete Pavement (diamond grind to 9" min.) Including diamond grinding for rideability **(profile index of 20 in./mile (maximum)).**	SF	121800	$ 4.25	$ 517,650.00	$ 517,650.00	$ 4.40	$ 535,920.00	$ 535,920.00	$ 4.46	$ 543,228.00	$ 543,228.00
	Total Pavement Alternate D					$ 532,650.00			$ 535,920.00			$ 550,591.81
	PAVEMENT ALTERNATE E (8" RCC Pavement with 1.5" Asphalt Surface)											
001-1E	Add/Deduct Earthwork associated with Alternate D	LS	1	$ 10,000.00	$ 10,000.00	$ 10,000.00	$ -	$ -	$ -	$ 7,363.81	$ 7,363.81	$ 7,363.81

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011-3E	8" Roller Compacted Concrete Pavement	SF	121800	$ 3.06	$ 372,708.00	$ 372,708.00	$ 2.87	$ 349,566.00	$ 349,566.00	$ 3.21	$ 390,978.00	$ 390,978.00
012-1E	1-1/2" Asphalt Surface -- See new City Spec. Item 12 (½-inch Nominal Aggregate Size JMF)	SF	121800	$ 0.83	$ 101,094.00	$ 101,094.00	$ 0.85	$ 103,530.00	$ 103,530.00	$ 0.77	$ 93,786.00	$ 93,786.00
Total Pavement Alternate E						$ 483,802.00			$ 453,096.00			$ 492,127.81
PAVEMENT ALTERNATE F (7.5" RCC Pavement with Diamond Ground Surface and 4" CTB)												
001-1F	Add/Deduct Earthwork associated with Alternate D	LS	1	$ 10,000.00	$ 10,000.00	$ 10,000.00	$ -	$ -	$ -	$ 7,063.81	$ 7,063.81	$ 7,063.81
011-2F	8" Roller Compacted Concrete Pavement (diamond grind to 7.5" min.) Including diamond grinding for rideability **(profile index of 20 in./mile (maximum)).**	SF	121800	$ 3.66	$ 445,788.00	$ 445,788.00	$ 3.73	$ 454,314.00	$ 454,314.00	$ 3.84	$ 467,712.00	$ 467,712.00
309-01F	Aggregate-Cement Base 4" thickness 5% PC by dry unit weight	SF	121800	$ 1.13	$ 137,634.00	$ 137,634.00	$ 1.11	$ 135,198.00	$ 135,198.00	$ 1.19	$ 144,942.00	$ 144,942.00
Total Pavement Alternate F						$ 593,422.00			$ 589,512.00			$ 619,717.81
PAVEMENT ALTERNATE G (6.5" RCC Pavement with 1.5" Asphalt Surface and 4" CTB)												
001-1G	Add/Deduct Earthwork associated with Alternate D	LS	1	$ 15,000.00	$ 15,000.00	$ 15,000.00	$ -	$ -	$ -	$ 7,363.81	$ 7,363.81	$ 7,363.81
011-3G	6.5" Roller Compacted Concrete Pavement	SF	121800	$ 2.54	$ 309,372.00	$ 309,372.00	$ 2.30	$ 280,140.00	$ 280,140.00	$ 2.66	$ 323,988.00	$ 323,988.00
012-1G	1-1/2" Asphalt Surface -- See new City Spec. Item 12 (½-inch Nominal Aggregate Size JMF)	SF	121800	$ 0.83	$ 101,094.00	$ 101,094.00	$ 0.86	$ 104,748.00	$ 104,748.00	$ 0.77	$ 93,786.00	$ 93,786.00
309-01G	Aggregate-Cement Base 4" thickness 5% PC by dry unit weight	SF	121800	$ 1.13	$ 137,634.00	$ 137,634.00	$ 1.16	$ 141,288.00	$ 141,288.00	$ 1.19	$ 144,942.00	$ 144,942.00
Total Pavement Alternate G						$ 563,100.00			$ 526,176.00			$ 570,079.81
Total Bid using least expensive pavement section				Pavement 'E'		**$ 3,321,495.12**	Pavement 'E'		**$ 3,544,792.74**	Pavement 'E'		**$ 3,982,110.46**
Total Bid Averaging pavement sections A, B, and F						$ 3,460,189.12			$ 3,728,575.69			$ 4,107,120.33

Yellow highlighted item designates $156 miscalculation on Talley's bid sheet for item 034-1.

Pavement Option	Rank based on low	Cost per Pavement Alternate			
Base	3	Pavement Only	$ 555,408.00	$ 595,602.00	$ 598,038.00
		Total Base Bid	$ 3,393,101.12	$ 3,687,298.74	$ 4,088,020.65
A	7	Pavement Only	$ 611,474.00	$ 637,826.85	$ 630,003.22
		Total Bid A	$ 3,449,167.12	$ 3,729,523.59	$ 4,119,985.87
B	8	Pavement Only	$ 662,592.00	$ 683,298.00	$ 601,692.00
		Total Bid B	$ 3,500,285.12	$ 3,774,994.74	$ 4,091,674.65
C	6	Pavement Only	$ 596,114.00	$ 610,706.82	$ 603,653.04
		Total Bid C	$ 3,433,807.12	$ 3,702,403.56	$ 4,093,635.69
D	2	Pavement Only	$ 532,650.00	$ 535,920.00	$ 550,591.81
		Total Bid D	$ 3,370,343.12	$ 3,627,616.74	$ 4,040,574.46
E	1	Pavement Only	$ 483,802.00	$ 453,096.00	$ 492,127.81
		Total Bid E	$ 3,321,495.12	$ 3,544,792.74	$ 3,982,110.46
F	5	Pavement Only	$ 593,422.00	$ 589,512.00	$ 619,717.81
		Total Bid F	$ 3,431,115.12	$ 3,681,208.74	$ 4,109,700.46
G	4	Pavement Only	$ 563,100.00	$ 526,176.00	$ 570,079.81
		Total Bid G	$ 3,400,793.12	$ 3,617,872.74	$ 4,060,062.46

by: _____

Christopher L. Davis - Project Manager