RESOLUTION NO. _____

A RESOLUTION AUTHORIZING THE ADMINISTRATOR FOR THE DEPARTMENT OF PUBLIC WORKS TO AWARD CONTRACT NO. S-12-003-201 TO THOMAS BROTHERS CONSTRUCTION COMPANY, INC., MCCUTCHEON ROAD – DRAINAGE IMPROVEMENTS, IN THE AMOUNT OF ONE MILLION FIVE HUNDRED SEVENTY-FIVE THOUSAND SIXTY-ONE AND 73/100 DOLLARS ($1,575,061.73), WITH A CONTINGENCY AMOUNT OF ONE HUNDRED FIFTY-FIVE THOUSAND DOLLARS ($155,000.00), FOR AN AMOUNT NOT TO EXCEED ONE MILLION SEVEN HUNDRED THIRTY THOUSAND SIXTY-ONE AND 73/100 DOLLARS ($1,730,061.73).

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF CHATTANOOGA, TENNESSEE, that the Administrator for the Department of Public Works is hereby authorized to award Contract No. S-12-003-201 to Thomas Brothers Construction Company, Inc., McCutcheon Road - Drainage Improvements, in the amount of $1,575,061.73, with a contingency amount of $155,000.00, for an amount not to exceed $1,730,061.73.

ADOPTED: _____, 2016

/mem

City of Chattanooga

Resolution/Ordinance Request Form

Date Prepared: January 7, 2016

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

Brief Description of Purpose for Resolution/Ordinance: **Res./Ord. #** _____ **Council District #** 6

A City Council resolution is requested to award Contract No. S-12-003-201, McCutcheon Road - Drainage Improvements, to Thomas Brothers Construction Co., Inc., in the amount $1,575,061.73 with a contingency amount of $155,000.00 for a not-to-exceed amount of $1,730,061.73.

Name of Vendor/Contractor/Grant, etc.	**Thomas Brothers Construction Co., Inc.**	New Contract/Project? (Yes or No)	Yes
Total project cost	$ 1,730,061.73	Funds Budgeted? (YES or NO)	Yes
Total City of Chattanooga Portion	$ 1,730,061.76	Provide Fund	6031
City Amount Funded	$ 1,730,061.76	Provide Cost Center	K80305
New City Funding Required	$	Proposed Funding Source if not budgeted	
City's Match Percentage	%	Grant Period (if applicable)	

List all other funding sources and amount for each contributor.

Amount(s)	Grantor(s)

Agency Grant Number

CFDA Number if known

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

Funded in FY16 WQ Budget

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

Questions? Contact Finance Department . 423.757.5232

Bid Schedule
Contract Number S-12-003
McCUTCHEON ROAD - DRAINAGE IMPROVEMENTS
City of Chattanooga

Item	Description	Approx. Quantity	Unit of Measure	Thomas Brothers Constr. Co., In 7849 Dayton Pike Hixson, TN 37343 Unit Price	Amount	Talley Constr. Co., Inc. 1751 McFarland Ave Rossville, GA 30741 Unit Price	Amount	Wilson Constr. Gr P.O. Box 785 Athens, TN 37371 Unit Price	Amount	Engineer's Estimate Unit Price	Amount
1	**Common Excavation**										
	a) **Common Excavation**	300	CY	$15.00	$4,500.00	$33.68	$10,104.00	$35.00	$10,500.00	$30.00	$9,000.00
	b) **Backfill / Borrow Excavation**	300	CY	$20.00	$6,000.00	$18.30	$5,490.00	$40.00	$12,000.00	$40.00	$12,000.00
	c) **Undercut and Remove Unsuitable Material**	100	CY	$15.00	$1,500.00	$22.44	$2,244.00	$45.00	$4,500.00	$35.00	$3,500.00
	d) **Backfill and Compact Undercut areas with 3" size Surge Stone** (Complete-in-Place)	100	CY	$35.00	$3,500.00	$55.89	$5,589.00	$60.00	$6,000.00	$42.61	$4,261.00
2	**Rock Excavation**										
	a) **Rock Excavation** - include the drilling and blasting incidental thereto and disposal of the excavated material	500	CY	$20.00	$10,000.00	$29.35	$14,675.00	$150.00	$75,000.00	$65.00	$32,500.00
3	**Concrete**										
	a) **Class A Concrete - 4000 PSI** includes furnishing all labor, materials, equipment, tools, plant services, etc. as incidental and as directed by the Engineer.	9	CY	$300.00	$2,700.00	$413.00	$3,717.00	$330.00	$2,970.00	$600.00	$5,400.00
	b) **Class A Hi-Early** - includes furnishing all labor, materials, equipment, tools, plant services, etc. as incidental and as directed by the Engineer.	9	CY	$350.00	$3,150.00	$503.86	$4,534.74	$385.00	$3,465.00	$650.00	$5,850.00
	c) **Concrete Encasement** City Std. SD-308.02, Placement at Existing Sanitary Sewer Lines intersecting Storm Drain Crossings where clearance is less than 18"	9	CY	$150.00	$1,350.00	$313.39	$2,820.51	$231.00	$2,079.00	$350.00	$3,150.00
4	**Concrete Reinforcement**										
	a) **Concrete Reinforcement** - Includes Furnishing, Bending, Placing, Tying, etc. as directed by the Engineer.	2,000	LB	$1.75	$3,500.00	$1.77	$3,540.00	$1.93	$3,860.00	$2.50	$5,000.00
5	**Pipe Sewer and Service Lines**										
	a) **Pipe Sewer and Service Lines** - sewer pipe, risers, service lines, and fittings as required, including trench excavation and backfill (Complete-in-Place / 25' Max Length)	10	EA	$1,000.00	$10,000.00	$1,007.04	$10,070.40	$5,000.00	$50,000.00	$250.00	$2,500.00
14	**Mineral Aggregate Base**										
	a) **Mineral Aggregate Base - TDOT** 100% Compaction Std. Proctor, Type 'A', Grading "D", 15-inch depth, (Complete-in-place).	5,152	SF	$2.13	$11,231.36	$2.72	$14,013.44	$5.00	$25,760.00	$4.70	$24,214.40

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	b) **Mineral Aggregate Base - Chattanooga** 100% Compaction Std. Proctor, Type 'A', Grading "D", 8-inch depth, (Complete-in-place).	25,023	SF	$1.20	$30,027.60	$1.39	$34,781.97	$2.54	$63,558.42	$2.50	$62,557.50
	c) **Cement Treated Mineral Aggregate Base (CTB)** per TDOT Specification Section 309, 8-inch depth, Placed in 4" max. Roller Compacted lifts, 5% Portland Cement by Dry Unit Weight (Complete-in-place).	25,023	SF	$2.15	$53,799.45	$2.36	$59,054.28	$3.30	$82,575.90	$3.25	$81,324.75
15	**Concrete Pavement Removal**										
	a) Unclassified demolition of existing pavement, curbs, sidewalks, pipes, walls, fences, conc. slabs, etc., incl. removal, disposal, and sawcutting where necessary - also including plugging pipes where required, and pipe removal within the Construction Limits (See demolition limits on Plans for McCutcheon Rd.)	21,580	SF	$1.00	$21,580.00	$1.90	$41,002.00	$1.50	$32,370.00	$2.50	$53,950.00
17	**Cement Concrete Curb, Gutter, or Combined Curb and Gutter**										
	a) **Type "A" Curb & Gutter** (SD-202.01) - Includes excavation, backfill, stone, concrete, etc., (Complete-in-Place).	1,200	LF	$24.00	$28,800.00	$29.77	$35,724.00	$29.00	$34,800.00	$27.00	$32,400.00
	b) **Curb & Gutter, TDOT Std.**, Includes excavation, backfill, stone, concrete, etc. (Complete-in-Place).	200	LF	$27.00	$5,400.00	$32.29	$6,458.00	$32.00	$6,400.00	$35.00	$7,000.00
23	**Removal of Structures / Obstructions**										
	a) **Curb Inlet/Catch Basin/Headwall**, Includes excavation, Saw cutting, disposal etc. (Complete-in-Place).	7	EA	$750.00	$5,250.00	$520.60	$3,644.20	$2,000.00	$14,000.00	$500.00	$3,500.00
	b) **Core Box Culvert** to install 4' Diameter Manhole Risers. (as shown on plans)	9	EA	$600.00	$5,400.00	$588.77	$5,298.93	$500.00	$4,500.00	$800.00	$7,200.00
	c) **Core Box Culvert** to receive RCP (as shown on plans)	3	EA	$600.00	$1,800.00	$787.21	$2,361.63	$300.00	$900.00	$1,200.00	$3,600.00
26	**Bituminous Plant Mix Binder (HOT MIX)**										
	a) **3.5" in depth Asphalt Binder - TDOT**, Grading "B", (1½-inch Nominal Aggregate Size JMF) includes prime coat (Complete-in-place).	5,152	SF	$2.95	$15,198.40	$5.57	$28,696.64	$3.08	$15,868.16	$4.90	$25,244.80
	b) **2.5" in depth Asphalt Binder - Chattanooga**, Grading "B", (1½-inch Nominal Aggregate Size JMF) includes prime coat (Complete-in-place).	25,023	SF	$1.59	$39,786.57	$1.87	$46,793.01	$2.20	$55,050.60	$3.50	$87,580.50

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27	**Asphaltic Concrete Surface (HOT MIX)**										
	a) **1.5" in depth** Asphaltic concrete surface TDOT & CITY Std., Grading "E" (1/2-inch Nominal Aggregate Size JMF) for New Lanes and Resurfacing Existing Lanes, includes tack coat (Complete-in-place).	38,970	SF	$1.15	$44,815.50	$1.24	$48,322.80	$1.36	$52,999.20	$1.15	$44,815.50
31	**Concrete Pipe for Storm Sewers and Culverts**										
	Circular Pipe										
	a) **18" RCP** Class III. Including excavation, bedding, backfill, connections to structures, etc. (complete-in-place)	56	LF	$80.00	$4,480.00	$117.83	$6,598.48	$90.00	$5,040.00	$69.25	$3,878.00
	b) **24" RCP** Class III. Including excavation, bedding, backfill, connections to structures, etc. (complete-in-place)	144	LF	$89.00	$12,816.00	$129.79	$18,689.76	$98.00	$14,112.00	$108.58	$15,635.52
	c) **30" RCP** Class III. Including excavation, bedding, backfill, connections to structures, etc. (complete-in-place)	98	LF	$105.00	$10,290.00	$205.64	$20,152.72	$130.00	$12,740.00	$161.55	$15,831.90
	Box Culvert										
	d) **6' X 4' Precast Box Culvert** Sherman Dixie DWG# BX-102 ASTM C-789. Including excavation, bedding, compacted pug backfill, etc. (complete-in-place)	664	LF	$510.00	$338,640.00	$950.42	$631,078.88	$825.00	$547,800.00	$607.50	$403,380.00
33	**Adjusting Manhole Frames**										
	a) **Manhole Adjustment** to Finished Grade - Includes Excavation, Backfill, Riser, Concrete, Brick, or any other Incidentals, etc., (Complete-in-place).	4	EA	$750.00	$3,000.00	$590.00	$2,360.00	$2,000.00	$8,000.00	$800.00	$3,200.00
34	**Catch Basins, Curb Inlets, Miscellaneous**										
	a) **City Standard Drop Inlet** (SD-607.01) - Includes Excavation, Bedding, Backfill, Brick, Frame and Grate (SD-608.02), 0'-6' in Depth, Labor, and other Incidentals. etc. (Complete-in-Place).	3	EA	$2,450.00	$7,350.00	$3,556.85	$10,670.55	$6,500.00	$19,500.00	$3,000.00	$9,000.00
	b) **Curb Inlets 4' dia.** City Std. SD-610.01, SD-610.02 (Left, Right, or Center config.'s)Includes Excavation as required, Bedding, Backfill, Brick or Precast Structure, Frame and Cover, Labor, and other Incidentals. etc. (Complete-in-Place).	2	EA	$2,900.00	$5,800.00	$3,723.84	$7,447.68	$7,000.00	$14,000.00	$3,500.00	$7,000.00
	c) **Curb Inlets 4' dia. (SYM.- VARIATION)** City Std. SD-610.01, SD-610.02 (Left, Right, or Center config.'s)Includes Excavation as required, Backfill, Brick or Precast Structure, Frame and Cover, Labor, and other Incidentals, etc. (Complete-in-Place).	1	EA	$2,250.00	$2,250.00	$2,665.10	$2,665.10	$7,000.00	$7,000.00	$4,000.00	$4,000.00
	d) **Junction Manholes 4' Dia.** City Std., SD-300.01 Includes Excavation as required, Bedding, Backfill, Brick or Precast Structure, Frame and Cover, Labor, and other Incidentals, etc. (Complete-in-Place).	4	EA	$2,250.00	$9,000.00	$3,605.84	$14,423.36	$7,500.00	$30,000.00	$3,500.00	$14,000.00

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	e) **Junction Manholes 4' Dia. (SYM.- VARIATION)** of City Std., SD-300.01 **(see Detail Sheet 10)** Includes Excavation as required, Placing Grouting, Backfill, Brick or Precast Structure, Frame and Cover, Labor, and other Incidentals, etc. (Complete-in-Place).	5	EA	$1,500.00	$7,500.00	$2,941.26	$14,706.30	$7,500.00	$37,500.00	$3,000.00	$15,000.00
35	**Sodding and/or Seeding**										
	a) **Fescue Sod** - Includes all Labor, Rolling, and other incidentals, etc. (Complete-in Place)	1,022	SY	$4.50	$4,599.00	$4.72	$4,823.84	$5.00	$5,110.00	$2.00	$2,044.00
	b) **Permanent Seeding** - Includes all Labor, Fertilizer, Straw and other incidentals (Complete-in-Place)	1,022	SY	$1.00	$1,022.00	$0.77	$786.94	$1.00	$1,022.00	$1.00	$1,022.00
36	**Topsoil**										
	a) **3 inch depth**, Includes Labor and other incidentals, etc. (Complete-in-place).	1,022	SY	$3.00	$3,066.00	$5.99	$6,121.78	$4.00	$4,088.00	$5.00	$5,110.00
70	**Rip-Rap**										
	a) Rock Riprap-Class A-1 - Includes geotextile filter fabric, Propex 104-F or Approved Equal size. (Complete-in-Place) 12" Min. Depth	250	SF	$2.00	$500.00	$4.02	$1,005.00	$12.00	$3,000.00	$12.00	$3,000.00
72	**Adjust Water Service Lines and Move Existing Water Meters and Boxes**										
	a) Adjust Water Service Lines and Meters and Boxes - Includes Labor and other incidentals, etc. (Complete-in-place).	10	EA	$700.00	$7,000.00	$836.40	$8,364.00	$1,000.00	$10,000.00	$550.00	$5,500.00
74	**Miscellaneous Materials**										
	a) Miscellaneous Materials (not included in other items such as add-mixtures, calcium chloride, etc.)	1	Allow	$5,000.00	$5,000.00	$5,000.00	$5,000.00	$5,000.00	$5,000.00	$5,000.00	$5,000.00

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75	**Milling**										
a)	**Cold Mill Depth of 1-1/2"** Bituminous Plant Mix Pavements	8,795	SF	$1.08	$9,498.60	$1.59	$13,984.05	$1.29	$11,345.55	$1.00	$8,795.00
98	**Slope Protection and Erosion Control**										
a)	**Inlet Protection** - Silt-Saver, Siltsack, Gutterbuddy, or as directed by Engineer, (Complete-in-Place)	14	EA	$200.00	$2,800.00	$494.58	$6,924.12	$400.00	$5,600.00	$332.38	$4,653.32
b)	**Filter socks** Silt Soxx or approved equal (Complete-in-place)	650	LF	$6.75	$4,387.50	$7.97	$5,180.50	$8.00	$5,200.00	$4.00	$2,600.00
c)	**Geotextile** - Turf Reinforcement Matting by Enkamat or approved equal, including all Labor, seeding, topsoil, etc. (Complete-in-place)	11,393	SF	$1.25	$14,241.25	$1.12	$12,760.16	$0.50	$5,696.50	$3.00	$34,179.00
d)	**Check Dams** - Temporary Rip-Rap (Complete-in-Place)	9	EA.	$250.00	$2,250.00	$312.31	$2,810.79	$500.00	$4,500.00	$250.00	$2,250.00
e)	**Dewatering Device** - Filter Bag / Filter Pit (15 x 10) 10 oz. non-woven New Pig, or approved equal (Complete-in-place)	1	EA.	$750.00	$750.00	$2,872.49	$2,872.49	$5,000.00	$5,000.00	$500.00	$500.00
717	**Mobilization**										
a)	Mobilization, including bid bond, performance bond, payment bond, project signage, incidentals not included in other pay items, etc.	1	LS	$236,000.00	$236,000.00	$103,757.02	$103,757.02	$135,000.00	$135,000.00	$70,000.00	$70,000.00
830	**Construction Trailer**										
a)	On-site Project Office / Construction Trailer - Location to be determined	1	EA	$500.00	$500.00	$11,508.84	$11,508.84	$2,000.00	$2,000.00	$8,500.00	$8,500.00
1720	**Project Record Documents**										
a)	Location of Stormwater Structures installed and/or modified by this contract. As-built drawing development, professional certification, and submittal of Digital and Hard Copies	1	LS	$3,000.00	$3,000.00	$3,540.00	$3,540.00	$10,000.00	$10,000.00	$10,000.00	$10,000.00
2120	**Video Taping**										
a)	Video Taping - all labor, equipment, and material required to provide a video tape record of all construction limits and or easement areas before construction begins in each area.	1	LS	$1,000.00	$1,000.00	$1,006.15	$1,006.15	$3,000.00	$3,000.00	$1,000.00	$1,000.00

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2452	Traffic Signs and Pavement Markings										
a)	**Signage** (STOP, YIELD, SPEED LIMIT, etc, Complete-in-Place)	6	EA	$275.00	$1,650.00	$324.50	$1,947.00	$300.00	$1,800.00	$200.00	$1,200.00
b)	**Striping** - Thermoplastic Pavement Marking (6-inch wide lines - Complete-in-Place)	1	LM	$4,750.00	$4,750.00	$5,605.00	$5,605.00	$5,500.00	$5,500.00	$3,700.00	$3,700.00
c)	**Stop Lines** - 24" Wide White Thermo Plastic TDOT Section 716-02.05 (Complete-in-Place)	106	LF	$10.00	$1,060.00	$11.80	$1,250.80	$12.00	$1,272.00	$15.00	$1,590.00
d)	**Channelization Striping** (Complete-in-Place)	10	SY	$16.75	$167.50	$19.77	$197.70	$19.00	$190.00	$10.00	$100.00
e)	**Cross Walk** - City Standard (Complete-in-Place)	300	LF	$18.00	$5,400.00	$21.24	$6,372.00	$22.00	$6,600.00	$20.00	$6,000.00
f)	**Turn Lane Arrow** TDOT Section 716-02.06 (Complete-in-Place)	4	EA	$150.00	$600.00	$177.00	$708.00	$200.00	$800.00	$300.00	$1,200.00
g)	**Straight Arrow** TDOT Section 716-02.06 (Complete-in-Place)	4	EA	$125.00	$500.00	$147.50	$590.00	$200.00	$800.00	$250.00	$1,000.00
h)	**Temporary Striping** TDOT Section 716	1	LM	$1,800.00	$1,800.00	$2,124.00	$2,124.00	$2,200.00	$2,200.00	$950.00	$950.00
100	Traffic Control Devices (Temporary)										
a)	**Barrels** (based on 50 barrels) Per MUTCD and approved Traffic Control Plan	2	LS	$1,500.00	$3,000.00	$1,770.00	$3,540.00	$1,800.00	$3,600.00	$2,500.00	$5,000.00
b)	**Lights** for traffic control barrels (based on 50 barrels)	100	EA	$34.00	$3,400.00	$40.12	$4,012.00	$41.00	$4,100.00	$20.00	$2,000.00
c)	**Temporary Signage** (per sign) (Per MUTCD and approved Traffic Control Plan)	20	EA	$120.00	$2,400.00	$141.60	$2,832.00	$144.00	$2,880.00	$200.00	$4,000.00
d)	**Traffic Control Detour Sign** as directed by the City Engineer	136	SF	$7.50	$1,020.00	$8.85	$1,203.60	$9.00	$1,224.00	$20.00	$2,720.00
e)	**Temporary Concrete Barrier Rail**	18	LF	$75.00	$1,350.00	$58.87	$1,059.66	$150.00	$2,700.00	$100.00	$1,800.00
f)	**Temporary Water Filled Barrier Rail**	125	LF	$30.00	$3,750.00	$35.40	$4,425.00	$36.00	$4,500.00	$60.00	$7,500.00
g)	**Allowance** Traffic Control (Misc. Items) As Directed by the Engineer, upon issuance of a CRF	1	LS	$5,000.00	$5,000.00	$5,000.00	$5,000.00	$5,000.00	$5,000.00	$5,000.00	$5,000.00
h)	**Type 3 Barricades With Lights**	9	EA	$215.00	$1,935.00	$253.70	$2,283.30	$258.00	$2,322.00	$225.00	$2,025.00

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3575	Flowable Controlled Low Strength Material for Abandoned Underground Pipe										
a)	Flowable Fill	9	CY	$110.00	$990.00	$144.66	$1,301.94	$200.00	$1,800.00	$140.00	$1,260.00
Misc	Allowance:										
	Incidentals as deemed necessary by the Project Coordinator or Engineer of Record to complete the project.	1	Allow	$15,000.00	$15,000.00	$15,000.00	$15,000.00	$15,000.00	$15,000.00	$15,000.00	$15,000.00
		Original Bid TOTAL			$1,059,801.73		$1,367,626.06		$1,532,698.33		$1,224,672.19
	Additional Quantities To Be Awarded										
14	Mineral Aggregate Base										
b)	Mineral Aggregate Base - Chattanooga 100%	19,000	SF	$1.20	$22,800.00	$1.39	$26,410.00	$2.54	$48,260.00	$2.50	$47,500.00
17	Cement Concrete Curb, Gutter, or Combined										
a)	Type "A" Curb & Gutter (SD-202.01) - Includes	1,600	LF	$24.00	$38,400.00	$29.77	$47,632.00	$29.00	$46,400.00	$27.00	$43,200.00
26	Bituminous Plant Mix Binder (HOT MIX)										
b)	2.5" in depth Asphalt Binder - Chattanooga,	19,000	SF	$1.59	$30,210.00	$1.87	$35,530.00	$2.20	$41,800.00	$3.50	$66,500.00
27	Asphaltic Concrete Surface (HOT MIX)										
a)	1.5" in depth Asphaltic concrete surface TDOT &	19,000	SF	$1.15	$21,850.00	$1.24	$23,560.00	$1.36	$25,840.00	$1.15	$21,850.00
31	Box Culvert										
d)	6' X 4' Precast Box Culvert Sherman Dixie DWG#	700	LF	$510.00	$357,000.00	$950.42	$665,294.00	$825.00	$577,500.00	$607.50	$425,250.00
Misc	Allowance:										
	Additional Items deemed necessary to extend the Project 700+/- LF, from the above Bid Items.	1	Allow	$45,000.00	$45,000.00	$45,000.00	$45,000.00	$45,000.00	$45,000.00	$45,000.00	$45,000.00
		Additional Qty. TOTAL			$515,260.00		$843,426.00		$784,800.00		$649,300.00
		AWARD TOTAL			$1,575,061.73		$2,211,052.06		$2,317,498.33		$1,873,972.19

Increase Contract Days form 120 Calendar Days to 180 Calendar Days

Bid Tabulation Certification

I hereby certify that the above is a true and accurate tabulation of the bids received at 2:00 p.m. on Thursday, December 17, 2015 in Conference Room G13, City Hall, for McCutcheon Road Drainage Improvements, Contract Number S-12-003-201 for the City of Chattanooga, TN.

By: _____
Martin P. Hawkins, P.E. TN #110136
City of Chattanooga

PLEASE PLACE WITH RQQ AS BACKUP INFO

Bid Tabulation
Contract Number S-12-003
McCUTCHEON ROAD - DRAINAGE IMPROVEMENTS
City of Chattanooga

Thomas Brothers Constr. Co., In
7849 Dayton Pike
Hixson, TN 37343

Item	Description	Approx. Quantity	Unit of Measure	Unit Price	Amount
1	**Common Excavation**				
	a) **Common Excavation**	300	CY	$15.00	$4,500.00
	b) **Backfill / Borrow Excavation**	300	CY	$20.00	$6,000.00
	c) **Undercut and Remove Unsuitable Material**	100	CY	$15.00	$1,500.00
	d) **Backfill and Compact Undercut areas with 3" size Surge Stone** (Complete-in-Place)	100	CY	$35.00	$3,500.00
2	**Rock Excavation**				
	a) **Rock Excavation** - include the drilling and blasting incidental thereto and disposal of the excavated material	500	CY	$20.00	$10,000.00
3	**Concrete**				
	a) **Class A Concrete - 4000 PSI** includes furnishing all labor, materials, equipment, tools, plant services, etc. as incidental and as directed by the Engineer.	9	CY	$300.00	$2,700.00
	b) **Class A Hi-Early** - includes furnishing all labor, materials, equipment, tools, plant services, etc. as incidental and as directed by the Engineer.	9	CY	$350.00	$3,150.00
	c) **Concrete Encasement** City Std. SD-308.02, Placement at Existing Sanitary Sewer Lines intersecting Storm Drain Crossings where clearance is less than 18"	9	CY	$150.00	$1,350.00
4	**Concrete Reinforcement**				
	a) **Concrete Reinforcement** - Includes Furnishing, Bending, Placing, Tying, etc. as directed by the Engineer.	2,000	LB	$1.75	$3,500.00
5	**Pipe Sewer and Service Lines**				
	a) **Pipe Sewer and Service Lines** - sewer pipe, risers, service lines, and fittings as required, including trench excavation and backfill (Complete-in-Place / 25' Max Length)	10	EA	$1,000.00	$10,000.00
14	**Mineral Aggregate Base**				
	a) **Mineral Aggregate Base - TDOT** 100% Compaction Std. Proctor, Type 'A', Grading "D", **15-Inch** depth, (Complete-in-place).	5,152	SF	$2.18	$11,231.36
	b) **Mineral Aggregate Base - Chattanooga** 100% Compaction Std. Proctor, Type 'A', Grading "D", **8-Inch** depth, (Complete-in-place).	25,023	SF	$1.20	$30,027.60
	c) **Cement Treated Mineral Aggregate Base (CTB)** per TDOT Specification Section 309, 8-inch depth, Placed in 4" max. Roller Compacted lifts, 5% Portland Cement by Dry Unit Weight (Complete-in-place).	25,023	SF	$2.15	$53,799.45
16	**Concrete Pavement Removal**				
	a) Unclassified demolition of existing pavement, curbs, sidewalks, pipes, walls, fences, conc. slabs, etc., incl. removal, disposal, and sawcutting where necessary - also including plugging pipes where required, and pipe removal within the Construction Limits (See demolition limits on Plans for McCutcheon Rd.)	21,580	SF	$1.00	$21,580.00
17	**Cement Concrete Curb, Gutter, or Combined Curb and Gutter**				
	a) **Type "A" Curb & Gutter** (SD-202.01) - Includes excavation, backfill, stone, concrete, etc., (Complete-in-Place).	1,200	LF	$24.00	$28,800.00
	b) **Curb & Gutter, TDOT Std.**, Includes excavation, backfill, stone, concrete, etc. (Complete-in-Place).	200	LF	$27.00	$5,400.00

Bid Tabulation
Contract Number S-12-003
McCUTCHEON ROAD - DRAINAGE IMPROVEMENTS
City of Chattanooga

Thomas Brothers Constr. Co., Inc
7849 Dayton Pike
Hixson, TN 37343

Item	Description	Approx. Quantity	Unit of Measure	Unit Price	Amount
23	**Removal of Structures / Obstructions**				
	a) **Curb Inlet/Catch Basin/Headwall,** Includes excavation, Saw cutting, disposal etc. (Complete-in-Place).	7	EA	$750.00	$5,250.00
	b) **Core Box Culvert** to install 4' Diameter Manhole Risers. (as shown on plans)	9	EA	$600.00	$5,400.00
	c) **Core Box Culvert** to receive RCP (as shown on plans)	3	EA	$600.00	$1,800.00
26	**Bituminous Plant Mix Binder (HOT MIX)**				
	a) **3.5" in depth Asphalt Binder - TDOT**, Grading "B", (1½-inch Nominal Aggregate Size JMF) includes prime coat (Complete-in-place).	5,152	SF	$2.95	$15,198.40
	b) **2.5" in depth Asphalt Binder - Chattanooga**, Grading "B", (1½-inch Nominal Aggregate Size JMF) includes prime coat (Complete-in-place).	25,023	SF	$1.59	$39,786.57
27	**Asphaltic Concrete Surface (HOT MIX)**				
	a) **1.5" in depth** Asphaltic concrete surface TDOT & CITY Std., Grading "E" (1/2-inch Nominal Aggregate Size JMF) for New Lanes and Resurfacing Existing Lanes, includes tack coat (Complete-in-place).	38,970	SF	$1.15	$44,815.50
31	**Concrete Pipe for Storm Sewers and Culverts**				
	Circular Pipe				
	a) **18" RCP** Class III. Including excavation, bedding, backfill, connections to structures, etc. (complete-in-place)	56	LF	$80.00	$4,480.00
	b) **24" RCP** Class III. Including excavation, bedding, backfill, connections to structures, etc. (complete-in-place)	144	LF	$89.00	$12,816.00
	c) **30" RCP** Class III. Including excavation, bedding, backfill, connections to structures, etc. (complete-in-place)	98	LF	$105.00	$10,290.00
	Box Culvert				
	d) **6' X 4' Precast Box Culvert** Sherman Dixie DWG# BX-102 ASTM C-789. Including excavation, bedding, compacted pug backfill, etc. (complete-in-place)	664	LF	$510.00	$338,640.00
33	**Adjusting Manhole Frames**				
	a) **Manhole Adjustment** to Finished Grade - Includes Excavation, Backfill, Riser, Concrete, Brick, or any other Incidentals, etc., (Complete-in-place).	4	EA	$750.00	$3,000.00
34	**Catch Basins, Curb Inlets, Miscellaneous**				
	a) **City Standard Drop Inlet** (SD-607.01) - Includes Excavation, Bedding, Backfill, Brick, Frame and Grate (SD-608.02), 0'-6' in Depth, Labor, and other Incidentals, etc. (Complete-in-Place).	3	EA	$2,450.00	$7,350.00
	b) **Curb Inlets 4' dia.** City Std. SD-610.01, SD-610.02 (Left, Right, or Center config.'s)Includes Excavation as required, Bedding, Backfill, Brick or Precast Structure, Frame and Cover, Labor, and other Incidentals, etc. (Complete-in-Place).	2	EA	$2,900.00	$5,800.00
	c) **Curb Inlets 4' dia. (SYM.- VARIATION)** City Std. SD-610.01, SD-610.02 (Left, Right, or Center config.'s)Includes Excavation as required, Backfill, Brick or Precast Structure, Frame and Cover, Labor, and other Incidentals, etc. (Complete-in-Place).	1	EA	$2,250.00	$2,250.00
	d) **Junction Manholes 4' Dia.** City Std., SD-300.01 Includes Excavation as required, Bedding, Backfill, Brick or Precast Structure, Frame and Cover, Labor, and other Incidentals, etc. (Complete-in-Place).	4	EA	$2,250.00	$9,000.00

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City of Chattanooga

Thomas Brothers Constr. Co., In
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Item	Description	Approx. Quantity	Unit of Measure	Unit Price	Amount
	e) **Junction Manholes 4' Dia. (SYM.- VARIATION)** of City Std., SD-300.01 **(see Detail Sheet 10)** Includes Excavation as required, Placing Grouting, Backfill, Brick or Precast Structure, Frame and Cover, Labor, and other Incidentals, etc. (Complete-in-Place).	5	EA	$1,500.00	$7,500.00
35	**Sodding and/or Seeding**				
	a) **Fescue Sod** - Includes all Labor, Rolling, and other incidentals, etc. (Complete-in Place)	1,022	SY	$4.50	$4,599.00
	b) **Permanent Seeding** - Includes all Labor, Fertilizer, Straw and other incidentals (Complete-in-Place)	1,022	SY	$1.00	$1,022.00
36	**Topsoil**				
	a) **3 inch depth**, Includes Labor and other incidentals, etc. (Complete-in-place).	1,022	SY	$3.00	$3,066.00
70	**Rip-Rap**				
	a) Rock Riprap-Class A-1 - Includes geotextile filter fabric, Propex 104-F or Approved Equal size. (Complete-in-Place) 12" Min. Depth	250	SF	$2.00	$500.00
72	**Adjust Water Service Lines and Move Existing Water Meters and Boxes**				
	a) Adjust Water Service Lines and Meters and Boxes - Includes Labor and other incidentals, etc. (Complete-in-place).	10	EA	$700.00	$7,000.00
74	**Miscellaneous Materials**				
	a) Miscellaneous Materials (not included in other items such as add-mixtures, calcium chloride, etc.)	1	Allow	$5,000.00	$5,000.00
75	**Milling**				
	a) **Cold Mill Depth of 1-1/2"** Bituminous Plant Mix Pavements	8,795	SF	$1.08	$9,498.60
98	**Slope Protection and Erosion Control**				
	a) **Inlet Protection** - Silt-Saver, Siltsack, Gutterbuddy, or as directed by Engineer, (Complete-in-Place)	14	EA	$200.00	$2,800.00
	b) **Filter socks** Silt Soxx or approved equal (Complete-in-place)	650	LF	$6.75	$4,387.50
	c) **Geotextile** - Turf Reinforcement Matting by Enkamat or approved equal, Including all Labor, seeding, topsoil, etc. (Complete-in-place)	11,393	SF	$1.25	$14,241.25
	d) **Check Dams** - Temporary Rip-Rap (Complete-in-Place)	9	EA.	$250.00	$2,250.00
	e) **Dewatering Device** - Filter Bag / Filter Pit (15 x 10) 10 oz. non-woven New Pig, or approved equal (Complete-in-place)	1	EA.	$750.00	$750.00

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City of Chattanooga

Thomas Brothers Constr. Co., In
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Item	Description	Approx. Quantity	Unit of Measure	Unit Price	Amount
717	**Mobilization**				
	a) Mobilization, including bid bond, performance bond, payment bond, project signage, incidentals not included in other pay items, etc.	1	LS	$236,000.00	$236,000.00
830	**Construction Trailer**				
	a) On-site Project Office / Construction Trailer - Location to be determined	1	EA	$500.00	$500.00
1720	**Project Record Documents**				
	a) Location of Stormwater Structures installed and/or modified by this contract. As-built drawing development, professional certification, and submittal of Digital and Hard Copies	1	LS	$3,000.00	$3,000.00
2120	**Video Taping**				
	a) Video Taping - all labor, equipment, and material required to provide a video tape record of all construction limits and or easement areas before construction begins in each area.	1	LS	$1,000.00	$1,000.00
2452	**Traffic Signs and Pavement Markings**				
	a) **Signage** (STOP, YIELD, SPEED LIMIT, etc, Complete-in-Place)	6	EA	$275.00	$1,650.00
	b) **Striping** - Thermoplastic Pavement Marking (6-inch wide lines - Complete-in-Place)	1	LM	$4,750.00	$4,750.00
	c) **Stop Lines** - 24" Wide White Thermo Plastic TDOT Section 716-02.05 (Complete-In-Place)	106	LF	$10.00	$1,060.00
	d) **Channelization Striping** (Complete-in-Place)	10	SY	$16.75	$167.50
	e) **Cross Walk** - City Standard (Complete-in-Place)	300	LF	$18.00	$5,400.00
	f) **Turn Lane Arrow** TDOT Section 716-02.06 (Complete-in-Place)	4	EA	$150.00	$600.00
	g) **Straight Arrow** TDOT Section 716-02.06 (Complete-in-Place)	4	EA	$125.00	$500.00
	h) **Temporary Striping** TDOT Section 716	1	LM	$1,800.00	$1,800.00
100	**Traffic Control Devices (Temporary)**				
	a) **Barrels** (based on 50 barrels) Per MUTCD and approved Traffic Control Plan	2	LS	$1,500.00	$3,000.00
	b) **Lights** for traffic control barrels (based on 50 barrels)	100	EA	$34.00	$3,400.00
	c) **Temporary Signage** (per sign) (Per MUTCD and approved Traffic Control Plan)	20	EA	$120.00	$2,400.00
	d) **Traffic Control Detour Sign** as directed by the City Engineer	136	SF	$7.50	$1,020.00
	e) **Temporary Concrete Barrier Rail**	18	LF	$75.00	$1,350.00
	f) **Temporary Water Filled Barrier Rail**	125	LF	$30.00	$3,750.00
	g) **Allowance** Traffic Control (Misc. Items) As Directed by the Engineer, upon issuance of a CRF	1	LS	$5,000.00	$5,000.00
	h) **Type 3 Barricades With Lights**	9	EA	$215.00	$1,935.00

Bid Tabulation
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McCUTCHEON ROAD - DRAINAGE IMPROVEMENTS
City of Chattanooga

Thomas Brothers Constr. Co., In
7649 Dayton Pike
Hixson, TN 37343

Item	Description	Approx. Quantity	Unit of Measure	Unit Price	Amount
3575	**Flowable Controlled Low Strength Material for Abandoned Underground Pipe**				
	a) Flowable Fill	9	CY	$110.00	$990.00
Misc	**Allowance:**				
	Incidentals as deemed necessary by the Project Coordinator or Engineer of Record to complete the project.	1	Allow	$15,000.00	$15,000.00
		Original Bid TOTAL			**$1,059,801.73**
	VALUE ENGINEERING				
	Additional Quantities To Be Awarded				
14	**Mineral Aggregate Base**				
	b) Mineral Aggregate Base - Chattanooga 100%	19,000	SF	$1.20	$22,800.00
17	**Cement Concrete Curb, Gutter, or Combined**				
	a) Type "A" Curb & Gutter (SD-202.01) - Includes	1,600	LF	$24.00	$38,400.00
26	**Bituminous Plant Mix Binder (HOT MIX)**				
	b) 2.5" in depth Asphalt Binder - Chattanooga,	19,000	SF	$1.59	$30,210.00
27	**Asphaltic Concrete Surface (HOT MIX)**				
	a) 1.5" in depth Asphaltic concrete surface TDOT &	19,000	SF	$1.15	$21,850.00
31	**Box Culvert**				
	d) 6' X 4' Precast Box Culvert Sherman Dixie DWG#	700	LF	$510.00	$357,000.00
Misc	**Allowance:**				
	Additional items deemed necessary to extend the Project 700+/- LF, from the above Bid Items.	1	Allow	$45,000.00	$45,000.00
		Additional Qty. TOTAL			**$515,260.00**
		AWARD TOTAL			**$1,575,061.73**

Increase Contract Days form 120 Calendar Days to 180 Calendar Days

Value Engineering

I have reviewed the attached document and I agree with the Value Engineered Contract Amount of $1,575,061.73.

By: _____ 1-11-2016

Thomas Brothers, 7649 Dayton Pike, Hixson, TN 37343 Date: