

RESOLUTION NO. _____

A RESOLUTION AUTHORIZING THE ADMINISTRATOR FOR THE DEPARTMENT OF TRANSPORTATION TO ENTER INTO AN AGREEMENT WITH THOMAS BROTHERS CONSTRUCTION RELATIVE TO CITY CONTRACT NO. T-14-040 FOR CONSTRUCTION SERVICES ASSOCIATED WITH INSTALLING PROTECTED BICYCLE LANES ALONG BROAD STREET, FOR AN AMOUNT NOT TO EXCEED TWO HUNDRED FIFTY-FIVE THOUSAND DOLLARS (\$255,000.00).

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF CHATTANOOGA, it is hereby authorizing the Administrator for the Department of Transportation to enter into an agreement with Thomas Brothers Construction relative to City Contract No. T-14-040 for construction services associated with installing protected bicycle lanes along Broad Street, for an amount not to exceed \$255,000.00.

ADOPTED: _____, 2015

/mem

City of Chattanooga



Resolution/Ordinance Request Form

Date Prepared: June 15, 2015

Preparer: Bert Kuyrkendall

Department: Transportation

Brief Description of Purpose for Resolution/Ordinance: _____ Res./Ord. # _____ Council District # 7

A City Council Resolution is requested to authorize the Administrator of the Department of Transportation to enter into an agreement with Thomas Brothers Construction, relative to City Contract No. T-14-040, for construction services associated with installing protected bicycle lanes along Broad Street, for an amount not to exceed \$255,000.

APPROVED WITH CONDITIONS

Name of Vendor/Contractor/Grant, etc.	<u>Thomas Brothers Construction</u>
Total project cost \$	<u>255,000.00</u>
Total City of Chattanooga Portion \$	<u>255,000.00</u>
City Amount Funded \$	<u>255,000.00</u>
New City Funding Required \$	<u>N/A</u>
City's Match Percentage %	<u>N/A</u>

New Contract/Project? (Yes or No)	<u>No</u>
Funds Budgeted? (YES or NO)	<u>Yes</u>
Provide Fund	<u>4022</u>
Provide Cost Center	<u>P20501</u>
Proposed Funding Source if not budgeted	<u>N/A</u>
Grant Period (if applicable)	<u>N/A</u>

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)

Approved by: *[Signature]*
DESIGNATED OFFICIAL/ADMINISTRATOR

Reviewed by: FINANCE OFFICE

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

Revised: October, 2011

BID TABULATION

CONTRACT NUMBER T-14-040-201

PROTECTED BIKE LANE AND NEIGHBORHOOD GREENWAY DESIGN: BROAD STREET CYCLE TRACK

The bids tabulated herein were received by the City of Chattanooga and read aloud May 28, 2015

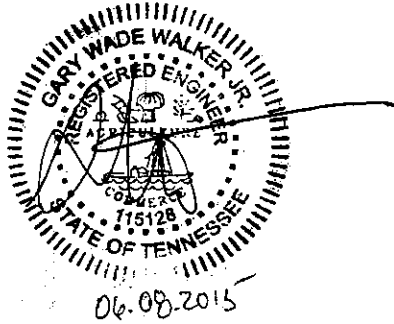
Alta Planning + Design reviewed the bidder's bid form for errors, omissions, unbalancing of unit prices, mathematical extensions, and totals. No errors were found with either bid.

BASE BID

Item	Description	Approx. Quantity	Unit of Measure	Engineer's Estimate		Thomas Brothers		Chase Plumbing and Mech.	
				Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
15-A	Removal of Concrete Sidewalk/Curb	117	SF	\$15.00	\$1,755.00	\$28.00	\$3,042.00	\$20.00	\$2,340.00
16-A	Concrete Curb Ramp	117	SF	\$15.00	\$1,755.00	\$36.40	\$4,258.80	\$50.00	\$5,850.00
17-A	Extruded Concrete Curb	3685	LF	\$17.50	\$64,487.50	\$12.00	\$44,220.00	\$20.00	\$73,700.00
717-A	Mobilization	1	LS	\$34,190.00	\$34,190.00	\$58,000.00	\$58,000.00	\$125,000.00	\$125,000.00
712-01	Traffic Control	1	LS	\$14,090.00	\$14,090.00	\$29,000.00	\$29,000.00	\$35,000.00	\$35,000.00
713-02.14	Flexible Delineator (White)	71	EA	\$80.00	\$4,280.00	\$89.64	\$6,364.44	\$80.00	\$5,680.00
713-11.01	"U" Section Steel Posts	1091	LB	\$5.00	\$5,455.00	\$1.43	\$1,560.13	\$2.00	\$2,182.00
713-11.02	Perforated/Knockout Square Tube Post	64	LB	\$7.00	\$448.00	\$2.35	\$150.40	\$3.00	\$192.00
713-13.02	Flat Sheet Aluminum Signs (0.080" Thick)	390	SF	\$20.00	\$7,800.00	\$26.00	\$10,140.00	\$30.00	\$11,700.00
716-02.04	Plastic Pavement Marking(Channelization Striping)	26	SY	\$25.00	\$650.00	\$23.73	\$616.98	\$28.00	\$728.00
716-02.05	Plastic Pavement Marking (Stop Line)	545	LF	\$13.00	\$7,085.00	\$19.50	\$10,627.50	\$25.00	\$13,625.00
716-02.06	Plastic Pavement Marking (Turn Lane Arrow)	13	EA	\$225.00	\$2,925.00	\$552.50	\$7,182.50	\$600.00	\$7,800.00
716-02.08	Plastic Pavement Marking (8" Dotted Line)	30	LF	\$10.00	\$300.00	\$2.93	\$87.90	\$5.00	\$150.00
716-02.09	Plastic Pavement Marking (Longitudinal Cross-Walk)	10	LF	\$35.00	\$350.00	\$32.50	\$325.00	\$35.00	\$350.00
716-03.01	Plastic Word Pavement Marking (Only)	2	LF	\$350.00	\$700.00	\$357.50	\$715.00	\$350.00	\$700.00
716-13.03	Spray Thermo Pvmr Mkrng (60 Mil) (8IN Barrier Line)	298	EA	\$1.50	\$447.00	\$1.95	\$581.10	\$2.50	\$745.00
716-03.10	Plastic Word Pavement Marking (Wait Here)	2	EA	\$400.00	\$800.00	\$682.50	\$1,365.00	\$600.00	\$1,200.00
716-03.11	Plastic Word Pavement Marking (Loading Zone)	12	EA	\$500.00	\$6,000.00	\$812.50	\$9,750.00	\$800.00	\$9,600.00
716-04.11	Plastic Pavement Marking (Bicycle Symbol W/Rider)	54	EA	\$250.00	\$13,500.00	\$520.00	\$28,080.00	\$600.00	\$32,400.00
716-04.13	Plastic Pavement Marking (Bike Lane Arrow)	48	EA	\$175.00	\$8,400.00	\$422.50	\$20,280.00	\$500.00	\$24,000.00
716-04.15	Plastic Pavement Marking-Bike Symbol/Arrow Shared	4	EA	\$300.00	\$1,200.00	\$520.00	\$2,080.00	\$600.00	\$2,400.00
716-04.17	Plastic Pavement Marking (Green Bicycle)	2521	SF	\$11.00	\$27,731.00	\$16.58	\$41,798.18	\$15.00	\$37,815.00
716-04.18	Plastic Pavement Marking (Pedestrian Symbol)	2	EA	\$200.00	\$400.00	\$455.00	\$910.00	\$500.00	\$1,000.00
716-08.01	Removal of Pavement Marking (Line)	6060	LF	\$1.50	\$9,090.00	\$1.07	\$6,484.20	\$2.00	\$12,120.00
716-08.05	Removal of Pavement Marking (Stop Line)	530	LF	\$5.00	\$2,650.00	\$13.00	\$6,890.00	\$15.00	\$7,950.00
716-13.01	Spray Thermo Pvmr Mkrng (60 Mil) (4IN Line)	1.49	LM	\$6,000.00	\$8,940.00	\$4,550.00	\$6,779.50	\$4,800.00	\$7,152.00
716-13.02	Spray Thermo Pvmr Mkrng (60 Mil) (6IN Line)	0.35	LM	\$15,000.00	\$5,250.00	\$5,850.00	\$2,047.50	\$6,500.00	\$2,275.00
716-13.04	Spray Thermo Pvmr Mkrng (60 Mil) (4IN Dotted Line)	620	LF	\$1.50	\$930.00	\$6.89	\$4,271.80	\$6.00	\$3,720.00
716-13.05	Spray Thermo Pvmr Mkrng (60 Mil) (6IN Dotted Line)	1272	LF	\$2.00	\$2,544.00	\$7.72	\$9,819.84	\$7.50	\$9,540.00

Item	Description	Approx. Quantity	Unit of Measure	Engineer's Estimate		Thomas Brothers		Chase Plumbing and Mech.	
				Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
730-01.02	Removal of Signal Equipment	2	EA	\$200.00	\$400.00	\$325.00	\$650.00	\$350.00	\$700.00
730-02.09	Signal Head Assembly (130 With Backplate)	2	EA	\$1,500.00	\$3,000.00	\$1,105.00	\$2,210.00	\$1,500.00	\$3,000.00
730-26.07	Flashing Warning Beacon (Rectangular Rapid Flashing Beacon)	2	EA	\$7,500.00	\$15,000.00	\$8,528.00	\$17,056.00	\$8,500.00	\$17,000.00
730-41.25	Rework of Controller	2	EA	\$500.00	\$1,000.00	\$1,170.00	\$2,340.00	\$1,800.00	\$3,600.00
Total Bid:					\$253,532.50		\$339,683.77		\$461,214.00

I hereby certify that this bid tabulation is a correct and accurate tabulation of the bids received.





111 East Chapel Hill Street, Suite 100
Durham, NC 27701
(919) 484-8448
www.altaplanning.com

June 15, 2015

Bertran Kuyrkendall, P.E.
City Transportation Engineer
Chattanooga Department of Transportation
1250 Market Street, Suite 3030
Chattanooga, TN 37402

Re: Recommendation for Approval of Broad Street Value Engineering Items
Contract No. T-14-040-201

Dear Mr. Kuyrkendall,

Per your request, Alta Planning + Design has performed an analysis to determine the cost savings associated with the elimination of proposed improvements on Aquarium Way, west of Broad Street, along Chestnut Street, and the removal of parking meters, signs, and bike racks.

A spreadsheet has been prepared and is attached that compares the original bid items, quantities, and unit prices submitted by the winning bidder, Thomas Brothers Construction Company, Inc. and the revised quantities and unit prices based on the proposed reduction of the project scope. The revised construction bid was reduced from the winning bid of \$339,683.77 to \$254,885.27. Given the elimination of work on Aquarium Way, west of Broad Street and along Chestnut Street will not impact the function of the Broad Street cycle track, we recommend that the City accept the revised bid from Thomas Brothers Construction Company, Inc.

Sincerely,
Alta Planning + Design, Inc.

A handwritten signature in black ink, appearing to read "G. Wade Walker".

G. Wade Walker, P.E.
Principal

VALUE ENGINEERING ANALYSIS
 CONTRACT NUMBER T-14-040-201

PROTECTED BIKE LANE AND NEIGHBORHOOD GREENWAY DESIGN: BROAD STREET CYCLE TRACK

BASE BID

Item	Description	ORIGINAL BID				BID WITH REVISED QUANTITIES			
		Approx. Quantity	Unit of Measure	Thomas Brothers		Approx. Quantity	Unit of Measure	Thomas Brothers	
				Unit Price	Amount			Unit Price	Amount
15-A	Removal of Concrete Sidewalk/Curb	117	SF	\$26.00	\$3,042.00	117	SF	\$26.00	\$3,042.00
16-A	Concrete Curb Ramp	117	SF	\$36.40	\$4,258.80	117	SF	\$36.40	\$4,258.80
17-A	Extruded Concrete Curb	3685	LF	\$12.00	\$44,220.00	2900	LF	\$12.00	\$34,800.00
717-A	Mobilization	1	LS	\$58,000.00	\$58,000.00	1	LS	\$47,000.00	\$47,000.00
712-01	Traffic Control	1	LS	\$29,000.00	\$29,000.00	1	LS	\$29,000.00	\$29,000.00
713-02.14	Flexible Delineator (White)	71	EA	\$89.64	\$6,364.44	57	EA	\$89.64	\$5,109.48
713-11.01	"U" Section Steel Posts	1091	LB	\$1.43	\$1,560.13	949	LB	\$1.43	\$1,357.07
713-11.02	Perforated/Knockout Square Tube Post	64	LB	\$2.35	\$150.40	32	LB	\$2.35	\$75.20
713-13.02	Flat Sheet Aluminum Signs (0.080" Thick)	390	SF	\$26.00	\$10,140.00	284	SF	\$26.00	\$7,384.00
716-02.04	Plastic Pavement Marking(Channelization Striping)	26	SY	\$23.73	\$616.98	26	SY	\$23.73	\$616.98
716-02.05	Plastic Pavement Marking (Stop Line)	545	LF	\$19.50	\$10,627.50	445	LF	\$19.50	\$8,677.50
716-02.06	Plastic Pavement Marking (Turn Lane Arrow)	13	EA	\$552.50	\$7,182.50	9	EA	\$552.50	\$4,972.50
716-02.08	Plastic Pavement Marking (8" Dotted Line)	30	LF	\$2.93	\$87.90	0	LF	\$2.93	\$0.00
716-02.09	Plastic Pavement Marking (Longitudinal Cross-Walk)	10	LF	\$32.50	\$325.00	0	LF	\$32.50	\$0.00
716-03.01	Plastic Word Pavement Marking (Only)	2	LF	\$357.50	\$715.00	0	LF	\$357.50	\$0.00
716-13.03	Spray Thermo Pvmt Mrkng (60 Mil) (8IN Barrier Line)	298	EA	\$1.95	\$581.10	0	LF	\$1.95	\$0.00
716-03.10	Plastic Word Pavement Marking (Wait Here)	2	EA	\$682.50	\$1,365.00	1	EA	\$682.50	\$682.50
716-03.11	Plastic Word Pavement Marking (Loading Zone)	12	EA	\$812.50	\$9,750.00	10	EA	\$812.50	\$8,125.00
716-04.11	Plastic Pavement Marking (Bicycle Symbol W/Rider)	54	EA	\$520.00	\$28,080.00	42	EA	\$520.00	\$21,840.00
716-04.13	Plastic Pavement Marking (Bike Lane Arrow)	48	EA	\$422.50	\$20,280.00	32	EA	\$422.50	\$13,520.00
716-04.15	Plastic Pavement Marking-Bike Symbol/Arrow Shared	4	EA	\$520.00	\$2,080.00	2	EA	\$520.00	\$1,040.00
716-04.17	Plastic Pavement Marking (Green Bicycle)	2521	SF	\$16.58	\$41,798.18	1936	SF	\$16.58	\$32,098.88
716-04.18	Plastic Pavement Marking (Pedestrian Symbol)	2	EA	\$455.00	\$910.00	0	EA	\$455.00	\$0.00
716-08.01	Removal of Pavement Marking (Line)	6060	LF	\$1.07	\$6,484.20	5000	LF	\$1.07	\$5,350.00
716-08.05	Removal of Pavement Marking (Stop Line)	530	LF	\$13.00	\$6,890.00	460	LF	\$13.00	\$5,980.00
716-13.01	Spray Thermo Pvmt Mrkng (60 Mil) (4IN Line)	1.49	LM	\$4,550.00	\$6,779.50	1	LM	\$4,550.00	\$4,550.00
716-13.02	Spray Thermo Pvmt Mrkng (60 Mil) (6IN Line)	0.35	LM	\$5,850.00	\$2,047.50	0.23	LM	\$5,850.00	\$1,345.50
716-13.04	Spray Thermo Pvmt Mrkng (60 Mil) (4IN Dotted Line)	620	LF	\$6.89	\$4,271.80	554	LF	\$6.89	\$3,817.06
716-13.05	Spray Thermo Pvmt Mrkng (60 Mil) (6IN Dotted Line)	1272	LF	\$7.72	\$9,819.84	990	LF	\$7.72	\$7,642.80
730-01.02	Removal of Signal Equipment	2	EA	\$325.00	\$650.00	1	EA	\$325.00	\$325.00
730-02.09	Signal Head Assembly (130 With Backplate)	2	EA	\$1,105.00	\$2,210.00	1	EA	\$1,105.00	\$1,105.00
730-26.07	Flashing Warning Beacon (Rectangular Rapid Flashing Beacon)	2	EA	\$8,528.00	\$17,056.00	0	EA	\$8,528.00	\$0.00
730-41.25	Rework of Controller	2	EA	\$1,170.00	\$2,340.00	1	EA	\$1,170.00	\$1,170.00
				Total Bid:	\$339,683.77			Total Bid:	\$254,885.27

THOMAS BROTHERS CONSTRUCTION COMPANY

7849 Dayton Pike Hixson, Tennessee 37343 (423) 842-6233

6/15/2015

RE: T-14-040-201
Broad Street Cycle Track
Value Engineering / Cost Savings for Project

Dear Mr. Kuyrkendall,

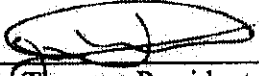
Thomas Brothers Construction Company, Inc. has evaluated cost saving items to reduce the overall project costs for the Broad Street Cycle Track project. The summaries of proposed value engineered costs savings for the project are as follows:

Item	Description	BID WITH REVISED QUANTITIES			
		Approx. Quantity	Unit of Measure	Thomas Brothers	
				Unit Price	Amount
15-A	Removal of Concrete Sidewalk/Curb	0	SF	\$26.00	\$0.00
16-A	Concrete Curb Ramp	0	SF	\$36.40	\$0.00
17-A	Extruded Concrete Curb	785	LF	\$12.00	\$9,420.00
717-A	Mobilization	0	LS	\$47,000.00	\$11000.00
712-01	Traffic Control	0	LS	\$29,000.00	\$0.00
713-02.14	Flexible Delineator (White)	14	EA	\$89.64	\$1,254.96
713-11.01	"U" Section Steel Posts	142	LB	\$1.43	\$203.06
713-11.02	Perforated/Knockout Square Tube Post	32	LB	\$2.35	\$75.20
713-13.02	Flat Sheet Aluminum Signs (0.080" Thick)	106	SF	\$26.00	\$2,756.00
716-02.04	Plastic Pavement Marking(Channelization Striping)	0	SY	\$23.73	\$0.00
716-02.05	Plastic Pavement Marking (Stop Line)	100	LF	\$19.50	\$1,950.00
716-02.06	Plastic Pavement Marking (Turn Lane Arrow)	4	EA	\$552.50	\$2,210.00
716-02.08	Plastic Pavement Marking (8" Dotted Line)	30	LF	\$2.93	\$87.90
716-02.09	Plastic Pavement Marking (Longitudinal Cross-Walk)	10	LF	\$32.50	\$325.00
716-03.01	Plastic Word Pavement Marking (Only)	2	LF	\$357.50	\$715.00
716-13.03	Spray Thermo Pvmt Mrkng (60 Mil) (8IN Barrier Line)	298	LF	\$1.95	\$581.10
716-03.10	Plastic Word Pavement Marking (Wait Here)	1	EA	\$682.50	\$682.50
716-03.11	Plastic Word Pavement Marking (Loading Zone)	2	EA	\$812.50	\$1,625.00
716-04.11	Plastic Pavement Marking (Bicycle Symbol W/Rider)	12	EA	\$520.00	\$6,240.00
716-04.13	Plastic Pavement Marking (Bike Lane Arrow)	16	EA	\$422.50	\$6,760.00
716-04.15	Plastic Pavement Marking-Bike Symbol/Arrow Shared	2	EA	\$520.00	\$1,040.00
716-04.17	Plastic Pavement Marking (Green Bicycle)	585	SF	\$16.58	\$9,699.30
716-04.18	Plastic Pavement Marking (Pedestrian Symbol)	2	EA	\$455.00	\$910.00
716-08.01	Removal of Pavement Marking (Line)	1060	LF	\$1.07	\$1,134.20
716-08.05	Removal of Pavement Marking (Stop Line)	70	LF	\$13.00	\$910.00
716-13.01	Spray Thermo Pvmt Mrkng (60 Mil) (4IN Line)	0.49	LM	\$4,550.00	\$2,229.50
716-13.02	Spray Thermo Pvmt Mrkng (60 Mil) (6IN Line)	0.12	LM	\$5,850.00	\$702.00
716-13.04	Spray Thermo Pvmt Mrkng (80 Mil) (4IN Dotted Line)	66	LF	\$6.89	\$454.74
716-13.05	Spray Thermo Pvmt Mrkng (60 Mil) (6IN Dotted Line)	282	LF	\$7.72	\$2,177.04
730-01.02	Removal of Signal Equipment	1	EA	\$325.00	\$325.00
730-02.09	Signal Head Assembly (130 With Backplate)	1	EA	\$1,105.00	\$1,105.00
730-26.07	Flashing Warning Beacon (Rectangular Rapid Flashing Beacon)	2	EA	\$8,528.00	\$17,056.00
730-41.25	Rework of Controller	1	EA	\$1,170.00	\$1,170.00
Total Savings:					\$84,798.50

The total value of the engineered cost savings for the Broad Street Cycle Track is \$84,798.50 based on the assumptions itemized above.

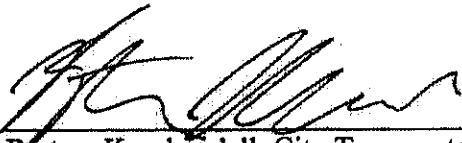
Please let me know if you have any questions regarding the information provided above.

Sincerely,

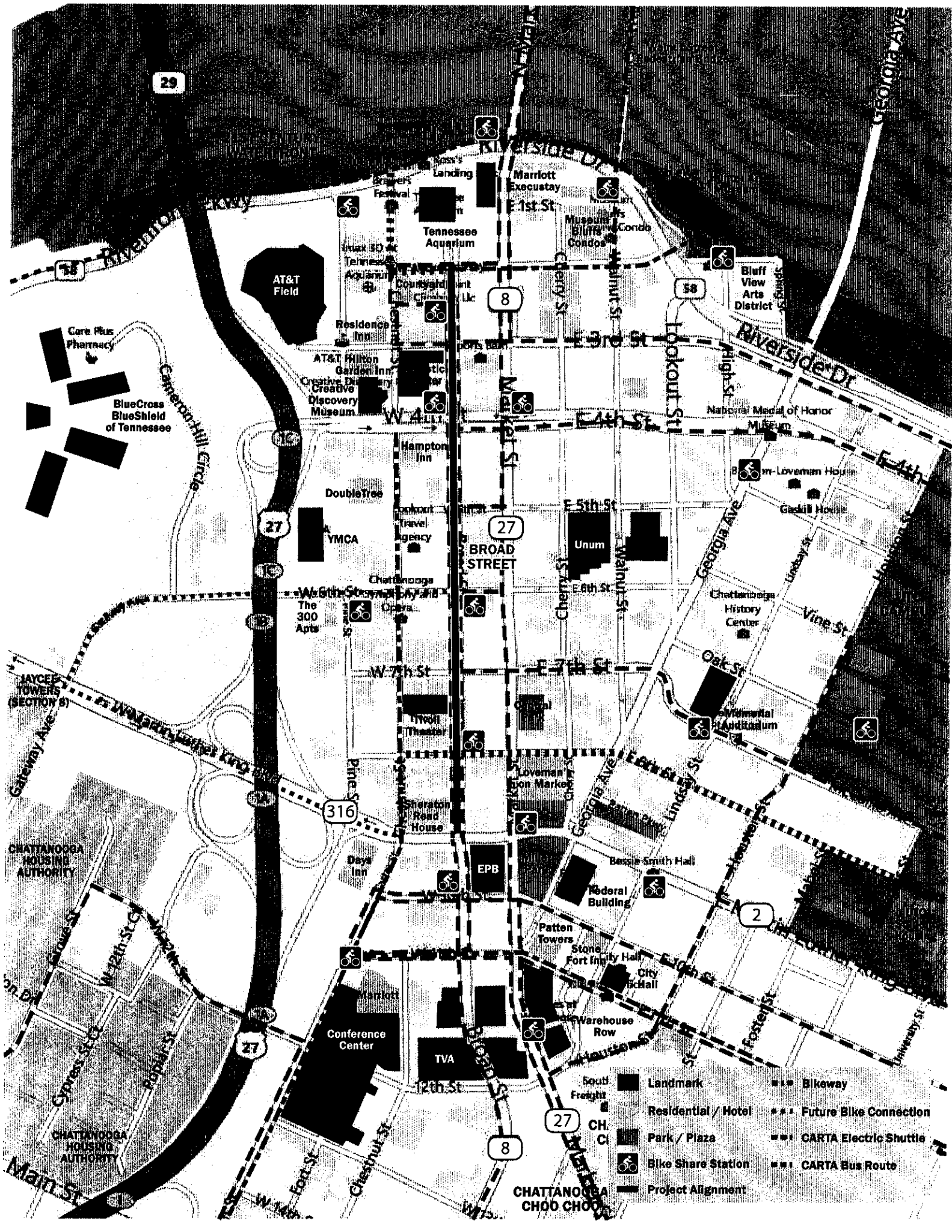


Jamie Thomas, President
Thomas Brothers Construction Company, Inc.

Agreed:



Bertran Kuyrkendall, City Transportation Engineer
City of Chattanooga, Department of Transportation



- Landmark
- Residential / Hotel
- Park / Plaza
- Bike Share Station
- Project Alignment
- Bikeway
- Future Bike Connection
- CARTA Electric Shuttle
- CARTA Bus Route

CHATTANOOGA CHOO CHOO

