

RESOLUTION NO. _____

A RESOLUTION AUTHORIZING THE ADMINISTRATOR OF THE DEPARTMENT OF PUBLIC WORKS TO AWARD CONTRACT NO. W-12-006-201, ALTON PARK PUMP STATION UPGRADE AND NEW FORCE MAIN TO MAYSE CONSTRUCTION COMPANY, IN THE AMOUNT OF FIVE HUNDRED FORTY-NINE THOUSAND NINE HUNDRED NINETY DOLLARS (\$549,990.00), WITH A CONTINGENCY AMOUNT OF FIFTY THOUSAND DOLLARS (\$50,000.00), FOR AN AMOUNT NOT TO EXCEED FIVE HUNDRED NINETY-NINE THOUSAND NINE HUNDRED NINETY DOLLARS (\$599,990.00).

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. W-12-006-201, Alton Park Pump Station Upgrade and New Force Main to Mayse Construction Company, in the amount of \$549,990.00, with a contingency amount of \$50,000.00, for an amount not to exceed \$599,990.00.

ADOPTED: _____, 2012

/mms

City of Chattanooga



Resolution/Ordinance Request Form

Date Prepared: 9/21/12

Preparer: Dennis Malone

Department: Public Works

Brief Description of Purpose for Resolution/Ordinance:

Res./Ord. # _____ Council District #

7

A City Council resolution is requested to award Contract No. W-12-006-201, Alton Park Pump Station Upgrade and New Force Main, to Mayse Construction Co., in the amount of \$549,990.00 with a contingency amount of \$50,000.00 for an amount not-to-exceed \$599,990.00.

Name of Vendor/Contractor/Grant, etc.	<u>Mayse Construction Co.</u>	New Contract/Project? (Yes or No)	<u>No</u>
Total project cost \$	<u>599,990.00</u>	Funds Budgeted? (YES or NO)	<u>Yes</u>
Total City of Chattanooga Portion \$	<u>599,990.00</u>	Provide Fund	<u>6011</u>
City Amount Funded \$	<u>599,990.00</u>	Provide Cost Center	<u>K40157</u> ISS
New City Funding Required \$	<u>0</u>	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)

Approved by: _____

DESIGNATED OFFICIAL/ADMINISTRATOR

Reviewed by: FINANCE OFFICE

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

Revised: 1/26/09



CTI Engineers, Inc.
1122 Riverfront Parkway
Chattanooga, TN 37402
Phone 423.267.7613
Fax 423.267.0603
www.ctiengr.com

September 24, 2012

Mr. Dennis Malone
Assistant City Engineer
Department of Public Works
Development Resource Center
Engineering Division
1250 Market Street, 2nd Floor
Chattanooga TN 37402

SENT VIA ELECTRONIC SCAN

Subject: Recommendation for Award
Alton Park Pump Station Upgrade and New Force Main
Chattanooga Contract No. W-12-006
CTI Project No. C12008-4

Dear Dennis:

My September 4, 2012, letter to you included a copy of the certified tabulation of the two bids received on the subject project on August 30, 2012. As noted in my letter, below are the results of the two bids received:

Mayse Construction Company
4659 B Shallowford Road
Chattanooga, TN 37411

Haren Construction Company
1715 Highway 411 North
Etowah, TN 37331

Total Base Bid: \$749,960.00

Total Base Bid: \$824,000.00

Mayse Construction was the apparent low bidder at \$749,960, which is \$74,040 (9.87%) lower than the bid submitted by Haren Construction.

Both bids were significantly higher than the amount budgeted for this project. I spoke with Todd Mayse in an effort to identify any opportunities for cost savings by value engineering the project. A follow-up meeting was held with Mayse, the City, and CTI, and it became apparent that there were numerous opportunities for cost savings. Todd Mayse indicated that he had included rock excavation for the entire force main because he encountered rock on a project just south of the subject site. It was agreed that the force main route would be cored at 50-foot intervals to

Mr. Dennis Malone
September 24, 2012
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determine the extent of rock. This work, accomplished on September 13th and 14th, revealed that little to no rock would be encountered, resulting in significant cost savings. Additional savings will be available as a result of the following:

- approval from the City to close 33rd Street to through traffic and
- approval from the Tennessee Department of Transportation to open cut Alton Park Boulevard.

CTI prepared the enclosed Schedule II, Value Engineered Changes, for Mayse to submit alternate unit bid prices incorporating the identified changes. The value engineered unit bid prices were received from Mayse Construction on September 21, 2012, and result in a decrease of \$199,970 from Mayse's original bid of \$749,960.

It is therefore our recommendation that the City award the contract to the apparent low bidder, Mayse Construction, and incorporate the value engineered changes concurrent with the bid award.

I have prepared the enclosed deductive Change Order No. 1, which will decrease the original bid of \$749,960 by \$199,970, resulting in a contract award amount of \$549,990.

Sincerely,



Allen D. Stephens, P.E.
Project Manager

Enclosures

cc: Mike Patrick (w/encl)
Ron Johnson (w/encl)
Ronald Simmons (w/encl)



CITY OF CHATTANOOGA
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

Development Resource Center
1250 Market Street, Suite 2100
Chattanooga, TN 37402
Phone: (423) 757-5117
Fax: (423) 757-0586

CHANGE ORDER

Contract No.: W-12-006 Change Order No.: 1
 Contractor: Mayes Construction Company Date: _____
4659-B Shallowford Rd. Chattanooga, TN Council Res. #s: N.A.
 Project Name: Alton Park Pump Station Upgrade and New
Force Main

Check Reason for Change Order	Contract Days Changed: <u>0</u>	Original Contract Amount	\$ <u>749,960.00</u>
<input type="checkbox"/> Error/Omission		Net Change by Previous C.O.s	\$ <u>0.00</u>
<input type="checkbox"/> Field Condition	Revised Completion Date: <u>T.B.D.</u>	Contract Amount Prior to this C.O.	\$ <u>749,960.00</u>
<input type="checkbox"/> Field Dispute Settlement		Total Amount of this C.O.	\$ <u>-199,970.00</u>
<input type="checkbox"/> Owner Request		NEW CONTRACT AMOUNT	\$ <u>549,990.00</u>
<input checked="" type="checkbox"/> Value Engineering			
<input type="checkbox"/> Other: _____			

Description / Justification (Add more pages if necessary)

Two bids were received on the subject project on August 30, 2012, both of which were higher than budgeted. The low bidder was Mayse Construction at \$749,960. The project has been Value Engineered with Mayse Construction in an effort to reduce the project cost. Value Engineered scope changes have identified \$199,970 in potential savings which are being incorporated into the scope of the project per the attached Schedule II Change Order.

The terms and conditions of this Change Order, including the cost and time contained herein, constitute a full accord and complete satisfaction for all costs and time of performance related to the work described or referenced herein, including but not limited to, all delay and impact costs for the entire Project resulting from this Change Order. Except as amended herein, all provisions of the Contract remain in full force and effect.

APPROVALS			
CONTRACTOR		ENGINEER / ARCHITECT	
Signature	Date	<i>Allen D. Stephens</i> Signature	Date
CITY PROJECT MANAGER		CITY ENGINEER	
Signature	Date	Signature	Date
ADMINISTRATOR OF PUBLIC WORKS		CITY FINANCE OFFICER	
Signature	Date	Signature	Date

VALUE ENGINEERED CHANGES

**ALTON PARK PUMP STATION UPGRADE AND NEW FORCE MAIN
CONTRACT NO. W-12-006
CITY OF CHATTANOOGA, TENNESSEE**

Bidder: **Mayse Construction Co.**

SCHEDULE II - VALUE ENGINEERED CHANGES

Item No.	Spec. Section	Description	Unit	Est. No. of Units	Unit Price	Item Total
DELETE BID ITEMS:						
Earthwork						
4	31 2000	Crushed Stone Shoulder along the South Side of 33 rd Street just East of Alton Park Blvd. (Including Excavation; Removal of Excess Excavated Material from Site; Placement of 33-P "Pug Mix", 8-Inch Thick, Compacted to a Density of 95% Proctor; etc.). Complete as Shown on the Contract Drawings.	Tons	30	150.00	4,500.00
Force Main						
10	33 1125	8-Inch-diameter DR11 High Density Polyethylene (HDPE) Force Main (including Excavation, Fittings, Standard Bedding, etc., and Backfill in Non-Paved Areas) from Sta. 0+00 to Sta. 13+00)	LF	1,300	51.00	66,300.00
11	33 1125	8-Inch-diameter DR11 HDPE Force Main (including Excavation, Fittings, Standard Bedding, etc., and Backfill in Paved Areas Using Flowable Fill) from Sta. 13+00 to 26+93.8 (Excludes 8-Inch HDPE Pipe Installed in Casing Pipe)	LF	1,120	146.00	163,520.00
Railroad and Highway Crossings						
16	33 0523	Railroad Crossing (Sta. 18+44 ± to Sta. 19+24 ±) Complete Installation by Open-Cut Including 16-Inch (minimum) Steel Casing Pipe, Excavation, Concrete, Spacers, etc. as Shown on Contract Drawings (Includes 8-Inch HDPE Carrier Pipe).	LF	80	445.00	35,600.00
17	33 0523	Railroad Crossing (Sta. 21+14 ± to Sta. 21+74 ±) Complete Installation by Boring and Jacking Including 16-Inch (minimum) Steel Casing Pipe, Excavation, Concrete, Spacers, etc. as Shown on Contract Drawings (Includes 8-Inch HDPE Carrier Pipe).	LF	60	629.00	37,740.00
18	33 0523	Highway Crossing (Sta. 23+62 ± to Sta. 25+02±) Complete Installation by Boring and Jacking Including 16-Inch (minimum) Steel Casing Pipe, Excavation, Concrete, Spacers, etc. as Shown on Contract Drawings (Includes 8-Inch HDPE Carrier Pipe).	LF	140	475.00	66,500.00
Alton Park Pump Station Upgrade						
19	03 3000 03 4800 31 2000 31 2500 33 0930 33 3219 33 3913 40 0513.53 40 0523 40 0533 40 9116.25 Division 26	Alton Park Pump Station Upgrade , including all work required at the Pump Station Site (Up to and including the 90-degree Bend at Force Main Sta. 0+00); such as, Interior Wet Well Modifications (i.e. Replacement of Valves, Piping, Fittings, etc.); Replacement of Submersible Nonclog Sewage Pumps; All Site Piping, Valve, and Fitting Modifications/Additions; Replacement of Pump Controls; Relocation of Existing Meter Vault and Replacement of Magnetic Flow Meter; Replacement of Wet Well Top and Floor Door and Installation of Fall-Protection Grating in Wet Well and Valve Vault Openings; Miscellaneous Electrical Modifications/ Additions; Site Improvements; All Site Erosion Controls; Topsoil, Seeding, and Mulch; Replacement/Additional Gravel on Site; Grading and Cleanup; Excavation; Site Chain Link Fencing Repairs (if needed); Mechanical Thrust Restraints and Concrete Thrust Blocks; Bypass Port Assembly and Temporary Bypass Pumping; Installation, Testing, and Startup for a Complete Operating System, etc.	LS	1	289,000.00	289,000.00
TOTAL DELETED BID ITEMS						\$663,160.00

Option 2 with 15" Mineral Aggregate Stone Base

Item No.	Spec. Section	Description	Unit	Est. No. of Units	Unit Price	Item Total
ADDED BID ITEMS:						
Force Main - Note: 33rd Street may be closed to through traffic from Alton Park Boulevard to Chandler						
10A	33 1125	8-Inch-diameter DR11 High Density Polyethylene (HDPE) Force Main (including Excavation, Fittings, Standard Bedding, etc., and Backfill in Non-Paved Areas) from Sta. 0+00 to Sta. 13+00) (Based upon No Rock Excavation).	LF	1,300	28 ⁰⁰	36,400
11A	33 1125	8-Inch-diameter DR11 HDPE Force Main (including Excavation, Fittings, Standard Bedding, etc., and Backfill in Paved Areas Using Stone Backfill from Sta. 13+00 to 26+93.8 (Excludes 8-Inch HDPE Pipe Installed in Casing Pipe), also Based upon No Rock Excavation.	LF	1,200	77 ⁵⁰	93,000
Railroad and Highway Crossings						
16A	33 0523	Railroad Crossing (Sta. 18+44 ± to Sta. 19+24 ±) Complete Installation by Open-Cut Including 16-Inch (minimum) Steel Casing Pipe, Excavation, Concrete, Spacers, etc. as Shown on Contract Drawings (Includes 8-Inch HDPE Carrier Pipe), also Based Upon No Rock Excavation and Stone Backfill.	LF	80	380 ⁰⁰	30,400
17A	33 0523	Railroad Crossing (Sta. 21+14 ± to Sta. 21+74 ±) Complete Installation by Boring and Jacking Including 16-Inch (minimum) Steel Casing Pipe, Excavation, Concrete, Spacers, etc. as Shown on Contract Drawings (Includes 8-Inch HDPE Carrier Pipe). (Based upon Earth Bore.)	LF	60	629 ⁰⁰	37,740
18A	33 0523	Highway Crossing (Sta. 24+17 ± to Sta. 24+77 ±) Complete Installation by Open Cut Including 16-Inch (minimum) Steel Casing Pipe, Excavation, Concrete, Spacers, etc. as Shown on Contract Drawings (Includes 8-Inch HDPE Carrier Pipe) and Based upon No Rock Excavation and Stone Backfill.	LF	60	315 ⁰⁰	18,900
Alton Park Pump Station Upgrade						
19A	03 3000 03 4800 31 2000 31 2500 33 0930 33 3219 33 3913 40 0513.53 40 0523 40 0533 40 9116.25 Division 26	Alton Park Pump Station Upgrade, including all work required at the Pump Station Site (Up to and including the 90-degree Bend at Force Main Sta. 0+00); such as, Replacement of Submersible Nonclog Sewage Pumps; All Site Piping, Valve, and Fitting Modifications/Additions; Replacement of Pump Controls; Relocation of Existing Meter Vault and Replacement of Magnetic Flow Meter; Replacement of Wet Well Top and Floor Door and Installation of Fall-Protection Grating in Wet Well and Valve Vault Openings; Miscellaneous Electrical Modifications/ Additions; Site Improvements; All Site Erosion Controls; Topsoil, Seeding, and Mulch; Replacement/Additional Gravel on Site; Grading and Cleanup; Excavation; Site Chain Link Fencing Repairs (if needed); Mechanical Thrust Restraints and Concrete Thrust Blocks; Bypass Port Assembly and Temporary Bypass Pumping; Installation, Testing, and Startup for a Complete Operating System, etc. (Includes Clarification that Wetwell does not have to be cleaned and Re-coated and Existing Pump Base Elbow and Discharge Piping shall Remain.)	LS	1	245,250	245,250
20A		Rock Trench Excavation plus Additional Stone Required	CY	10	150 ⁰⁰	1,500
TOTAL ADDED BID ITEMS						463,190
NET CHANGE THIS SCHEDULE (SUM OF DELETES + ADDS)						-199,970
In case of discrepancies, the extension of the quantities and the unit prices will govern. Quantities are not guaranteed. Final payment will be based on actual quantities.						
BIDDER			DATE			
BY			(Signature) TITLE			
ADDRESS						
CITY			STATE		ZIP CODE	
PHONE		FAX		EMAIL		

CONCRETE AND DUCTILE IRON (Y.)	"S" IN (IN.)	QUANTITY (C.Y.)	
		CONC. & D.I.	PVC, ETC.
	4-1/4	0.025	0.037
	4-1/2	0.030	0.043

LINE SHALL APPLY TO 4" SERVICE LINE ALSO.
BEDDING ARE THE QUANTITIES IN EXCESS OF



OF
N.
L. BE
SATE

BEDDING

AS SHOWN BY THE STANDARD DETAILS FOR THE TYPE
HALL BE INCLUDED FOR PAYMENT IN THE UNIT PRICE
FOR VARIOUS TYPES, SIZES, AND DEPTHS LISTED IN

(SECTION 204.04, TENNESSEE D.O.T. SPECIFICATIONS)-
BEDDING FOR PIPE CULVERTS SHALL CONSIST OF SAND OR
OF WHICH PASSES A 3/8-INCH SIEVE AND NOT MORE
NO. 200 SIEVE; OR STONE, GRAVEL, CHERT, OR SLAG
ELEMENTS FOR EITHER GRADING C, D, OR E OF

AS DESIGNATED BY THE ENGINEER WHERE A FREE
L. MATERIAL IS REQUIRED, THE MATERIAL SHALL BE
4G, OR WASHED GRAVEL MEETING THE REQUIREMENTS

PIPE BEDDING MATERIAL-NO. 7 WASHED STONE
D.O.T. SPECIFICATIONS).

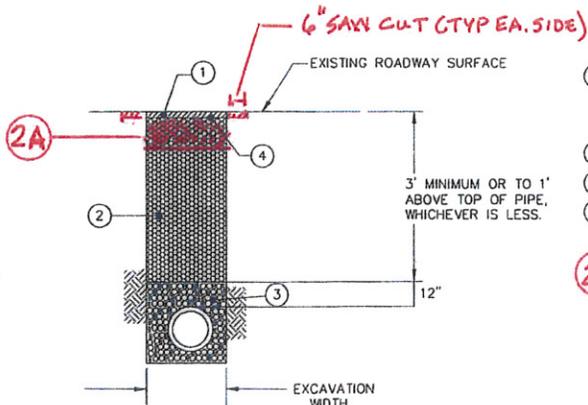
FOR CLASS "B" BEDDING AND SHALL BE PLACED AS
DETAILS FOR THE TYPE OF PIPE USED. QUANTITIES FOR
BE THE AMOUNTS IN EXCESS OF THOSE REQUIRED FOR

TRENCH AND BEDDING DETAILS
N.T.S.

GENERAL REQUIREMENTS:

1. ALL STREET CUTS SHALL BE REPAIRED IMMEDIATELY AFTER BACKFILLING AND ACCORDING TO THESE STANDARDS.
2. A RIGHT-OF-WAY PERMIT AND AN APPROVED TRAFFIC CONTROL PLAN SHALL BE REQUIRED FOR ALL CUTS IN THE CITY STREETS.
3. WHERE LONGITUDINAL CUTS ARE MADE, THE OWNER RESERVES THE RIGHT TO REQUIRED ADDITIONAL RESURFACING BEYOND THE LIMITS OF THE REPAIR TO ENSURE THAT THE PROPER RIDING CHARACTERISTICS AND THE STABILITY OF THE PAVEMENT.

IN VALVE BOX
3 VALVE
T
SHALL EXERCISE
BOLT HEADS FREE
SEWER, SIZE VARIES
BLOCK OR BRICK

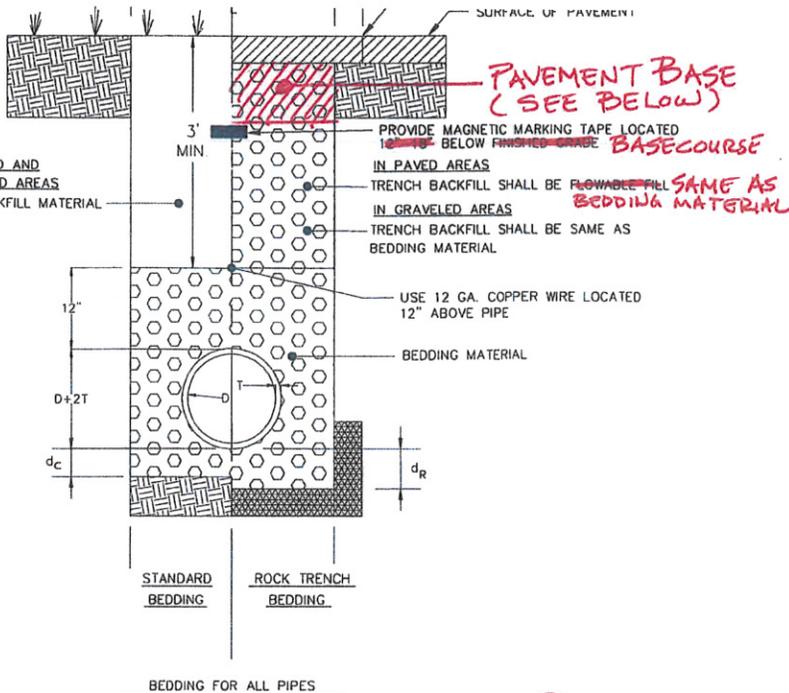


DRAWING NOTES:

1. ASPHALTIC CONCRETE BINDER COURSE 3-1/2" THICK, GRADING B MODIFIED OR GRADING C, CITY OF CHATTANOOGA SPECIFICATIONS; OR GRADING B, TENNESSEE D.O.T. SPECIFICATIONS.
2. **STONE SAME AS BEDDING MATERIAL** (15")
3. BEDDING MATERIAL - SEE TYPICAL TRENCH AND BEDDING DETAILS.
4. BITUMINOUS MATERIAL FOR PRIME COAT 0.35 GAL./SY WITH CHIPS

2A - BASE
OPTION #1 - Mineral Aggregate (Cement Treated) 9" THICK
ROADWAY QUANTITIES
OPTION #2 - Mineral Aggregate Stone Base (T.D.O.T. 303-01, Type A, Grading "D" T.D.O.T. Spec.) 15" THICKNESS
ROADWAY QUANTITIES

TYPICAL TRENCH-WIDTH PAVEMENT REPAIR DETAIL
N.T.S.



TRENCH DETAILS

D	dc	dr
8" AND LESS	6"	10"
10" TO 18"	8"	12"
20" TO 30"	10"	14"
32" AND LARGER	12"	16"

**PROPOSED
REVISED TRENCH
DETAIL IN
33RD ST. & SHOULDER
OF 33RD STREET**
9-19-12
A. Stephens

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NO.	REVISIONS	DATE	BY	APP'D
	DESCRIPTIONS			

DESIGN	DDT	DRAWN	DDT	CHECKED	ADS	APPROVED	DDT

CITY OF CHATTANOOGA, TENNESSEE
ALTON PARK PUMP STATION UPGRADE

MISCELLANEOUS DETAILS (SHEET 2 OF 3)



JOB NO.	C12008-2
DATE	6/01/12
SCALE	AS SHOWN
DRAWING NO.	12.0