



HISTORIC
FRANKLIN
TENNESSEE

ITEM #9
CIP
02-11-10

MEMORANDUM

February 3, 2010

TO: Board of Mayor and Aldermen

FROM: Eric J. Gardner, P.E., Director of Engineering
Eric S. Stuckey, City Administrator *ESS*
David Parker, P.E., City Engineer

SUBJECT: Carothers Phase II Project Final Change Order

Purpose

The purpose of this memo is to recommend approval of the Final Change Order for the Carothers Phase II Project and to close out this contract.

Background

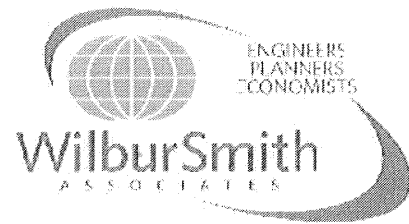
BOMA approved the construction contract with K.W. Lankford Excavating for the Carothers Phase II Project on September 23, 2008. The total bid price for the project was \$5,787,228.09. As part of the construction contract, an early incentive bonus was included. The maximum amount of the bonus was \$120,000.00. The contractor completed the project early enough to be awarded the full bonus. At this time, the contractor has fulfilled its obligations as part of the construction contract and has submitted its final pay request.

Financial Impact

The maximum bonus of \$120,000.00 has been paid to the contractor in a previous pay application. Even with the full bonus paid, there will be a DEDUCT of \$160.80 from the construction contract with K.W. Lankford Excavating. The final construction contract amount will be \$5,787,067.29.

Recommendation

Approval of the Final Change Order to close this project with K.W. Lankford Excavating with a DEDUCT of \$160.80 is recommended.



January 21, 2010

Mr. Eric Gardner, PE
Director of Engineering
City of Franklin
109 3rd Avenue South
Franklin, TN 37065

6640 Carothers Parkway, Suite 160
Franklin, TN 37067
Tel (615) 771-2466
Fax (615) 778-9733
www.wilbursmith.com

Re: Carothers Parkway Phase II – Final Change Order CIP Project # 431000607

Dear Mr. Gardner:

I am pleased to report to you that the Carothers Parkway Phase II project is complete. All items of work have been inspected and are complete. As of 1/12/2010 I have received the final Affidavit of Payment from K.W. Lankford Excavating certifying payment in full to all of their Sub-Contractors, vendors, and employees. I have release of liens and claims from all of the Subcontractors and vendors used on the Carothers Parkway Phase II project and placed in the project files.

I have received Guaranty-Warranty letters from the Prime contractor K.W. Lankford Excavating and all of their subcontractors used on the Carothers Parkway Phase II project warranting the project for a period of one year from the substantial completion date of October 15th 2009.

The total bid price for the Carothers Parkway Phase II project is \$5,787,228.09. The Board of Mayor and Aldermen approved this contract for Construction Services on September 23rd, 2008. The final cost of construction is \$5,787,067.29. This is a savings of \$160.80 from the total bid price finishing the project on time and under budget.

It has been a pleasure to work with you on this exciting project. If you have any questions about this project please feel free to call (615) 771-2466. Thank you again.

If you have any questions regarding our review of the pay request, please feel free to give me a call. Again, thank you for the opportunity to continue our partnership with the City of Franklin.

Yours Very Truly,

Wilbur Smith Associates

Jim Sarr, PE
Project Engineer

Albany NY, Anaheim CA, Atlanta GA, Austin TX, Baltimore MD, Bangkok Thailand, Binghamton NY, Burlington VT, Charleston SC, Charleston WV, Chicago IL, Cincinnati OH, Cleveland OH, Columbia SC, Columbus OH, Dallas TX, Dubai UAE, Falls Church VA, Franklin TN, Greenville SC, Harrisburg PA, Hong Kong, Hot Springs AR, Houston TX, Iselin NJ, Jacksonville FL, Kansas City MO, Kenmore WA, Knoxville TN, Lansing MI, Lexington KY, Lisle IL, London UK, Milwaukee WI, Mumbai India, Myrtle Beach SC, New Haven CT, Orlando FL, Philadelphia PA, Pittsburgh PA, Portland ME, Poughkeepsie NY, Raleigh NC, Richmond VA, Riyadh Saudi Arabia, Salt Lake City UT, San Diego CA, San Francisco CA, St. Paul MN, Savannah GA, Tallahassee FL, Tampa FL, Tempe AZ, Trenton NJ, Washington DC

Employee-Owned Company

CAROTHERS PARKWAY PHASE II CIP PROJECT # 431000607
FINAL CHANGE ORDER

| ITEM # | UNIT | UNIT PRICE | CONTRACT QUANTITY | CONTRACT AMOUNT | QTY PD TO DATE | TOTAL \$ AMT PAID | \$\$\$ OVER/ UNDER | % OVER/ UNDER |
|-----------|------|-------------|-------------------|-----------------|----------------|-------------------|--------------------|---------------|
| 105.01 | LS | \$31,000.00 | 1 | \$31,000.00 | 1 | \$31,000.00 | \$0.00 | 0.00 |
| 201.01 | LS | \$60,000.00 | 1 | \$60,000.00 | 1 | \$60,000.00 | \$0.00 | 0.00 |
| 203.01 | CY | \$4.46 | 151020 | \$673,549.20 | 161646.88 | \$720,945.08 | \$47,395.88 | 6.57 |
| 203.02.01 | CY | \$7.00 | 1 | \$7.00 | 0 | \$0.00 | -\$7.00 | -100.00 |
| 203.04 | CY | \$5.00 | 2986 | \$14,930.00 | 2986 | \$14,930.00 | \$0.00 | 0.00 |
| 203.05 | C.Y. | \$4.00 | 5417 | \$21,668.00 | 5072.23 | \$20,288.92 | -\$1,379.08 | -6.80 |
| 203.06 | M.G. | \$8.00 | 1249 | \$9,992.00 | 239 | \$1,912.00 | -\$8,080.00 | -422.59 |
| 209.02.07 | LF | \$21.30 | 1 | \$21.30 | 0 | \$0.00 | -\$21.30 | -100.00 |
| 209.03 | SF | \$4.30 | 100 | \$430.00 | 100 | \$430.00 | \$0.00 | 0.00 |
| 209.05 | CY | \$2.20 | 527 | \$1,159.40 | 264 | \$580.80 | -\$578.60 | -99.62 |
| 209.06.11 | LF | \$6.20 | 1 | \$6.20 | 0 | \$0.00 | -\$6.20 | -100.00 |
| 209.08.02 | LF | \$3.00 | 5125 | \$15,375.00 | 1245 | \$3,735.00 | -\$11,640.00 | -311.65 |
| 209.08.03 | LF | \$2.20 | 5609 | \$12,339.80 | 5609 | \$12,339.80 | \$0.00 | 0.00 |
| 209.08.04 | LF | \$5.50 | 1 | \$5.50 | 0 | \$0.00 | -\$5.50 | -100.00 |
| 209.09.01 | BAG | \$2.50 | 300 | \$750.00 | 150 | \$375.00 | -\$375.00 | -100.00 |
| 209.10.01 | CY | \$12.00 | 10 | \$120.00 | 0 | \$0.00 | -\$120.00 | -100.00 |
| 303.10.01 | TON | \$11.00 | 23255 | \$255,805.00 | 21380.52 | \$235,185.72 | -\$20,619.28 | -8.77 |
| 303.10.02 | TON | \$16.40 | 1591 | \$26,092.40 | 720.3 | \$11,812.92 | -\$14,279.48 | -120.88 |
| 307.01.08 | TON | \$16.40 | 200 | \$3,280.00 | 114.64 | \$1,880.10 | -\$1,399.90 | -74.46 |
| 307.02.01 | TON | \$89.00 | 730 | \$64,970.00 | 531.22 | \$47,278.58 | -\$17,691.42 | -37.42 |
| 307.02.08 | TON | \$71.00 | 7413 | \$526,323.00 | 5894.69 | \$418,522.99 | -\$107,800.01 | -25.76 |
| 402.01 | TON | \$80.00 | 5463 | \$437,040.00 | 4777.13 | \$382,170.40 | -\$54,869.60 | -14.36 |
| 402.02 | TON | \$690.00 | 49 | \$33,810.00 | 17.83 | \$12,302.70 | -\$21,507.30 | -174.82 |
| 403.01 | TON | \$19.00 | 175 | \$3,325.00 | 224.08 | \$4,257.52 | \$932.52 | 21.90 |
| 411.01.10 | TON | \$690.00 | 6 | \$4,140.00 | 6.24 | \$4,305.60 | \$165.60 | 3.85 |
| 411.02.10 | TON | \$106.00 | 509 | \$53,954.00 | 444.15 | \$47,079.90 | -\$6,874.10 | -14.60 |
| 415.01.02 | TON | \$93.00 | 3256 | \$302,808.00 | 4806.34 | \$446,989.62 | \$144,181.62 | 32.26 |
| 502.05 | SY | \$2.50 | 8768 | \$21,920.00 | 16562 | \$46,405.00 | \$24,485.00 | 52.76 |
| 607.03.02 | BAG | \$15.50 | 1 | \$15.50 | 0 | \$0.00 | -\$15.50 | -100.00 |
| 607.05.02 | LF | \$54.80 | 4328 | \$237,174.40 | 4328 | \$237,174.40 | \$0.00 | 0.00 |
| 611.01.02 | LF | \$78.00 | 525 | \$35,995.00 | 495 | \$33,561.00 | -\$2,034.00 | -6.06 |
| 611.02.11 | EACH | \$2,311.10 | 1 | \$2,311.10 | 1 | \$2,311.10 | \$0.00 | 0.00 |
| | EACH | \$2,686.50 | 2 | \$5,373.00 | 2 | \$5,373.00 | \$0.00 | 0.00 |

| ITEM # | ITEM DESCRIPTION | UNIT | PRICE | CONTRACT QUANTITY | CONTRACT AMOUNT | QTY PD TO DATE | TOTAL \$ AMT PAID | \$\$\$ OVER/ UNDER | % OVER/ UNDER |
|-----------|--|------|-------------|-------------------|-----------------|----------------|-------------------|--------------------|---------------|
| 611.07.01 | CLASS A CONCRETE (PIPE ENDWALLS) | CY | \$936.10 | 12 | \$11,233.20 | 10.56 | \$9,885.22 | -\$1,347.98 | -13.64 |
| 611.07.02 | STEEL BAR REINFORCEMENT (PIPE ENDWALLS) | LB | \$1.20 | 132 | \$158.40 | 120 | \$144.00 | -\$14.40 | -10.00 |
| 611.09.01 | ADJUSTING OF EXISTING CATCHBASIN | EACH | \$708.70 | 2 | \$1,417.40 | 3 | \$2,126.10 | \$708.70 | 33.33 |
| 611.09.03 | CAPPING EXISTING CATCHBASIN | EACH | \$920.70 | 6 | \$5,524.20 | 6 | \$5,524.20 | \$0.00 | 0.00 |
| 611.12.01 | CATCHBASIN, TYPE 12, 0'-4" DEPTH | EACH | \$1,648.10 | 2 | \$3,296.20 | 2 | \$3,296.20 | \$0.00 | 0.00 |
| 611.12.02 | CATCHBASIN, TYPE 12, > 4'-8" DEPTH | EACH | \$1,829.20 | 36 | \$58,651.20 | 36 | \$58,651.20 | \$0.00 | 0.00 |
| 611.14.02 | CATCH BASIN, TYPE 14, > 4'-8" DEPTH | EACH | \$2,959.50 | 11 | \$32,554.50 | 11 | \$32,554.50 | \$0.00 | 0.00 |
| 611.91.00 | WATER QUALITY UNIT (MODEL # 956) | EACH | \$19,547.40 | 3 | \$58,642.20 | 3 | \$58,642.20 | \$0.00 | 0.00 |
| 611.91.01 | WATER QUALITY UNIT (MODEL # 646) | EACH | \$19,547.40 | 5 | \$97,737.00 | 5 | \$97,737.00 | \$0.00 | 0.00 |
| 701.01.01 | CONCRETE SIDEWALK (4 INCHES) | SF | \$3.10 | 27692 | \$85,845.20 | 27687 | \$85,829.70 | -\$15.50 | -0.02 |
| 701.02 | CONCRETE DRIVEWAY | SF | \$7.90 | 800 | \$6,320.00 | 936 | \$7,394.40 | \$1,074.40 | 14.53 |
| 701.02.01 | CONCRETE HANDICAP RAMP | SF | \$14.50 | 1717 | \$24,896.50 | 1714 | \$24,853.00 | -\$43.50 | -0.18 |
| 702.03 | CONCRETE COMBINED CURB & GUTTER | CY | \$159.50 | 1150 | \$183,425.00 | 1148.04 | \$183,112.38 | -\$312.62 | -0.17 |
| 707.03.01 | STOCK FENCE | LF | \$4.60 | 9300 | \$42,780.00 | 9265 | \$42,619.00 | -\$161.00 | -0.38 |
| 707.03.03 | STOCK FENCE GATE (12') | EACH | \$600.00 | 2 | \$1,200.00 | 2 | \$1,200.00 | \$0.00 | 0.00 |
| 709.05.06 | MACHINED RIP-RAP (CLASS A-1) | TON | \$20.30 | 90 | \$1,827.00 | 87.91 | \$1,784.57 | -\$42.43 | -2.38 |
| 710.04 | FILTER CLOTH UNDERDRAIN (WITH PIPE) | LF | \$4.30 | 0 | \$0.00 | 0 | \$0.00 | \$0.00 | 0.00 |
| 712.01 | TRAFFIC CONTROL | LS | \$13,546.00 | 1 | \$13,546.00 | 1 | \$13,546.00 | \$0.00 | 0.00 |
| 712.02.02 | INTERCONNECTED PORTABLE BARRIER RAIL | LF | \$21.50 | 200 | \$4,300.00 | 120 | \$2,580.00 | -\$1,720.00 | -66.67 |
| 712.04.01 | FLEXIBLE DRUMS (CHANNELIZING) | EACH | \$39.00 | 60 | \$2,340.00 | 25 | \$975.00 | -\$1,365.00 | -140.00 |
| 712.05.01 | WARNING LIGHTS (TYPE A) | EACH | \$55.00 | 24 | \$1,320.00 | 22 | \$1,210.00 | -\$110.00 | -9.09 |
| 712.06 | SIGNS (CONSTRUCTION) | SF | \$7.00 | 149 | \$1,043.00 | 273.5 | \$1,914.50 | \$871.50 | 45.52 |
| 712.07.03 | TEMPORARY BARRICADES (TYPE III) | LF | \$15.00 | 84 | \$1,260.00 | 110 | \$1,650.00 | \$390.00 | 23.64 |
| 712.09.01 | REMOVABLE PAVEMENT MARKING LINE | LF | \$3.00 | 500 | \$1,500.00 | 733 | \$2,199.00 | \$699.00 | 31.79 |
| 712.09.02 | REMOVABLE PAVEMENT MARKING (8" BARRIER LINE) | LF | \$5.00 | 1 | \$5.00 | 0 | \$0.00 | -\$5.00 | -100.00 |
| 712.09.03 | REMOVABLE PAVEMENT MARKING (CHANNELIZATION STRIPING) | SY | \$18.00 | 90 | \$1,620.00 | 53.333 | \$959.99 | -\$660.01 | -68.75 |
| 713.11.02 | PERFORATED/KNOCKOUT SQUARE TUBE POST | LB | \$4.80 | 1041 | \$4,996.80 | 872.1 | \$4,186.08 | -\$810.72 | -19.37 |
| 713.13.02 | FLAT SHEET ALUMINUM SIGNS (0.080"TK) | SF | \$13.00 | 173 | \$2,249.00 | 197.75 | \$2,570.75 | \$321.75 | 12.52 |
| 713.13.03 | FLAT SHEET ALUMINUM SIGNS (0.100"TK) | SF | \$15.00 | 26 | \$390.00 | 9 | \$135.00 | -\$255.00 | -188.89 |
| 713.16.07 | END OF ROADWAY SIGN AND SUPPORT | EACH | \$180.00 | 4 | \$720.00 | 4 | \$720.00 | \$0.00 | 0.00 |
| 713.16.20 | SIGNS (R10-35, 10" x 12") | EACH | \$211.00 | 0 | \$0.00 | 0 | \$0.00 | \$0.00 | 0.00 |
| 713.16.21 | SIGNS (R10-10, 24" x 30") | EACH | \$224.00 | 11 | \$2,464.00 | 11 | \$2,464.00 | \$0.00 | 0.00 |
| 713.16.22 | SIGNS (R10-12, 24" x 30") | EA | \$224.00 | 1 | \$224.00 | 1 | \$224.00 | \$0.00 | 0.00 |
| 713.16.23 | SIGNS (INTERNALLY ILLUMINATED SIGNS, MAST ARM MOUNTED) | EACH | \$4,455.00 | 5 | \$22,275.00 | 5 | \$22,275.00 | \$0.00 | 0.00 |
| 716.02.01 | PLASTIC PAVEMENT MARKING (4" LINE) | LM | \$3,000.00 | 4.3 | \$12,900.00 | 5.953 | \$17,859.00 | \$4,959.00 | 27.77 |

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|-----------|---|------|-------------|-------------------|-----------------|----------------|-------------------|--------------------|---------------|
| 716.02.04 | PLASTIC PAVEMENT MARKING (CHANELIZATION STRIPING) | SY | \$35.00 | 70 | \$2,450.00 | 27.111 | \$948.89 | -\$1,501.12 | -158.20 |
| 716.02.05 | PLAST PVMT MARK (STOP LINE) | LF | \$15.00 | 220 | \$3,300.00 | 234 | \$3,510.00 | \$210.00 | 5.98 |
| 716.02.06 | PLASTIC PAVEMENT MARKING (TURN LANE ARROW) | EACH | \$200.00 | 22 | \$4,400.00 | 39 | \$7,800.00 | \$3,400.00 | 43.59 |
| 716.02.08 | PLAST PVMT MARK (8 DOTTED LINE) | LF | \$4.50 | 174 | \$783.00 | 434 | \$1,953.00 | \$1,170.00 | 59.91 |
| 716.02.09 | PLASTIC PAVEMENT MARKING (LONGITUDINAL CROSS-WALK) | LF | \$30.00 | 481 | \$14,430.00 | 940 | \$28,200.00 | \$13,770.00 | 48.83 |
| 716.02.02 | PLAST PVMT MARK (8" BARRIER LINE) | LF | \$2.50 | 611 | \$1,527.50 | 611 | \$1,527.50 | \$0.00 | 0.00 |
| 716.02.11 | PLAST PVMT MARK (6" DOTTED LINE) | LF | \$3.50 | 1 | \$3.50 | 0 | \$0.00 | -\$3.50 | -100.00 |
| 716.04.03 | PLAS PVMT MK (4" DOTTED LINE) | LF | \$2.00 | 302 | \$604.00 | 806 | \$1,612.00 | \$1,008.00 | 62.53 |
| 716.04.05 | PLAS PVMT MK (4" STRAIGHT ARROW) | EACH | \$200.00 | 0 | \$0.00 | 0 | \$0.00 | \$0.00 | 0.00 |
| 716.04.15 | PLAS PVMT MK (4" BIKE SYMBOL/ARROW) | EACH | \$625.00 | 4 | \$2,500.00 | 6 | \$3,750.00 | \$1,250.00 | 33.33 |
| 716.05.01 | PAINTED PAVEMENT MARKING (4" LINE) | LM | \$800.00 | 1.5 | \$1,200.00 | 2.406 | \$1,924.80 | \$724.80 | 37.66 |
| 716.05.02 | PAINTED PAVEMENT MARKING (STOP LINE) | LF | \$1.50 | 220 | \$330.00 | 374 | \$561.00 | \$231.00 | 41.18 |
| 717.01 | MOBILIZATION | LS | \$63,700.00 | 1 | \$63,700.00 | 1 | \$63,700.00 | \$0.00 | 0.00 |
| 725.03.25 | CAMERA POLE & FOUNDATION TYPE II (50FT W/LOWERING DEVICE) | EACH | \$25,166.00 | 1 | \$25,166.00 | 1 | \$25,166.00 | \$0.00 | 0.00 |
| 725.03.26 | LOWERING TOOL FOR CAMERA LOWERING DEVICE | EACH | \$3,295.00 | 1 | \$3,295.00 | 1 | \$3,295.00 | \$0.00 | 0.00 |
| 725.03.37 | CCTV CAMERA | EACH | \$12,860.00 | 1 | \$12,860.00 | 1 | \$12,860.00 | \$0.00 | 0.00 |
| 725.05.05 | FIBER OPTIC FOR CCTV (6 STRAND LOOSE TUBE SIGNAL MOD) | LF | \$2.50 | 0 | \$0.00 | 0 | \$0.00 | \$0.00 | 0.00 |
| 730.01 | TRAFFIC SIGNALS | LS | \$1,285.00 | 1 | \$1,285.00 | 1 | \$1,285.00 | \$0.00 | 0.00 |
| 730.02.09 | SIGNAL HEAD ASSEMBLY (130 W/BACKPLATE) | EACH | \$933.00 | 12 | \$11,196.00 | 12 | \$11,196.00 | \$0.00 | 0.00 |
| 730.02.10 | SIGNAL HEAD ASSEMBLY (130 A2 W/ BACKPLATE, LEFT) | EACH | \$827.00 | 10 | \$8,270.00 | 10 | \$8,270.00 | \$0.00 | 0.00 |
| 730.02.17 | SIGNAL HEAD ASSEMBLY (150 A2H W/ BACKPLATE, 1L, 6R) | EACH | \$1,609.00 | 7 | \$11,263.00 | 7 | \$11,263.00 | \$0.00 | 0.00 |
| 730.02.18 | SIGNAL HEAD ASSEMBLY (150 AZV RIGHT) | EACH | \$1,422.00 | 6 | \$8,532.00 | 6 | \$8,532.00 | \$0.00 | 0.00 |
| 730.03.21 | INSTALL PULL BOX (SIGNAL TYPE B) | EACH | \$496.00 | 28 | \$13,888.00 | 29 | \$14,384.00 | \$496.00 | 3.45 |
| 730.03.23 | INSTALL PULL BOX (FIBER OPTIC-TYPE A) | EACH | \$1,423.00 | 0 | \$0.00 | 0 | \$0.00 | \$0.00 | 0.00 |
| 730.05.01 | ELECTRICAL SERVICE CONNECTION | EACH | \$4,249.00 | 2 | \$8,498.00 | 2 | \$8,498.00 | \$0.00 | 0.00 |
| 730.05.03 | SERVICE CABLE - (2 CONDUCTOR, #6 AWG) | LF | \$1.80 | 820 | \$1,476.00 | 90 | \$1,620.00 | -\$1,314.00 | -811.11 |
| 730.08.01 | SIGNAL CABLE - 3 CONDUCTOR | LF | \$1.00 | 2965 | \$2,965.00 | 2975 | \$2,975.00 | \$10.00 | 0.34 |
| 730.08.02 | SIGNAL CABLE - 5 CONDUCTOR | LF | \$1.10 | 1930 | \$2,123.00 | 2343 | \$2,577.30 | \$454.30 | 17.63 |
| 730.08.03 | SIGNAL CABLE - 7 CONDUCTOR | LF | \$1.30 | 6845 | \$8,898.50 | 6017 | \$7,822.10 | -\$1,076.40 | -13.76 |
| 730.12.01 | CONDUIT 1 DIAMETER (PVC) | LF | \$4.80 | 170 | \$816.00 | 460 | \$2,208.00 | \$1,392.00 | 63.04 |
| 730.12.02 | CONDUIT 2 DIAMETER (PVC) | LF | \$5.50 | 2495 | \$13,722.50 | 2217 | \$12,193.50 | -\$1,529.00 | -12.54 |
| 730.12.03 | CONDUIT 3 DIAMETER (PVC) | LF | \$7.10 | 1959 | \$13,908.90 | 1967 | \$13,965.70 | \$56.80 | 0.41 |
| 730.13.01 | VEHICLE DETECTOR (SINGLE CHANNEL SHELF MOUNT) | EACH | \$365.00 | 0 | \$0.00 | 0 | \$0.00 | \$0.00 | 0.00 |
| 730.13.06 | VEHICLE DETECTOR (OPTICALLY ACTIVATED PRIORITY CONTROL) | EACH | \$1,884.00 | 5 | \$9,420.00 | 5 | \$9,420.00 | \$0.00 | 0.00 |
| 730.14.01 | SHIELDED DETECTOR CABLE | LF | \$0.80 | 13425 | \$10,740.00 | 13571 | \$10,856.80 | \$116.80 | 1.08 |

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| 730.14.02 | SAW SLOT | LF | \$4.40 | 2225 | \$9,790.00 | 2653 | \$11,673.20 | \$1,883.20 | 16.13 |
| 730.14.03 | LOOP WIRE | LF | \$0.70 | 6175 | \$4,322.50 | 7339 | \$5,137.30 | \$814.80 | 15.86 |
| 730.14.04 | DETECTOR CABLE MODEL 138 | LF | \$3.00 | 80 | \$240.00 | 1085 | \$3,255.00 | \$3,015.00 | 92.63 |
| 730.15.32 | CABINET (EIGHT PHASE BASE MOUNTED) | EACH | \$21,575.00 | 1 | \$21,575.00 | 1 | \$21,575.00 | \$0.00 | 0.00 |
| 730.16.02 | EIGHT PHASE ACTUATED CONTROLLER | EACH | \$3,142.00 | 1 | \$3,142.00 | 1 | \$3,142.00 | \$0.00 | 0.00 |
| 730.16.14 | CONTROLLER (EAGLE EPAC 3108-M52 W/COMM. MOD. ADD 15288P009) | EACH | \$3,142.00 | 1 | \$3,142.00 | 1 | \$3,142.00 | \$0.00 | 0.00 |
| 730.23.30 | PEDESTAL POLE | EACH | \$1,245.00 | 10 | \$12,450.00 | 10 | \$12,450.00 | \$0.00 | 0.00 |
| 730.23.31 | PEDESTAL POLE (PEDESTRIAN PUSH BUTTON POST) | EACH | \$1,268.00 | 1 | \$1,268.00 | 1 | \$1,268.00 | \$0.00 | 0.00 |
| 730.23.96 | CANTILEVER SIGNAL SUPPORT (1 @ 70') | EACH | \$21,699.00 | 1 | \$21,699.00 | 1 | \$21,699.00 | \$0.00 | 0.00 |
| 730.23.97 | CANTILEVER SIGNAL SUPPORT (1 @ 75') | EACH | \$22,202.00 | 1 | \$22,202.00 | 1 | \$22,202.00 | \$0.00 | 0.00 |
| 730.23.98 | CANTILEVER SIGNAL SUPPORT (1 @ 80') | EACH | \$26,077.00 | 1 | \$26,077.00 | 1 | \$26,077.00 | \$0.00 | 0.00 |
| 730.23.99 | CANTILEVER SIGNAL SUPPORT (1 @ 85') | EACH | \$28,180.00 | 1 | \$28,180.00 | 1 | \$28,180.00 | \$0.00 | 0.00 |
| 730.26.01 | PEDESTRIAN SIGNAL DISPLAY | EACH | \$617.00 | 4 | \$2,468.00 | 4 | \$2,468.00 | \$0.00 | 0.00 |
| 730.26.02 | PEDESTRIAN PUSH BUTTON WITH SIGN | EA | \$359.00 | 13 | \$4,667.00 | 13 | \$4,667.00 | \$0.00 | 0.00 |
| 730.26.05 | COUNTDOWN PEDESTRIAN SIGNAL | EA | \$754.00 | 8 | \$6,032.00 | 8 | \$6,032.00 | \$0.00 | 0.00 |
| 740.10.03 | GEOTEXTILE (TYPE III) (EROSION CONTROL) | S.Y. | \$4.30 | 1073 | \$4,613.90 | 500 | \$2,150.00 | -\$2,463.90 | -114.60 |
| 801.01 | SEEDING (WITH MULCH) | UNIT | \$41.90 | 0 | \$0.00 | 0 | \$0.00 | \$0.00 | 0.00 |
| 801.01.07 | TEMPORARY SEEDING (WITH MULCH) | UNIT | \$34.90 | 0 | \$0.00 | 0 | \$0.00 | \$0.00 | 0.00 |
| 801.03 | WATER (SEEDING & SODDING) | MG | \$100.00 | 136 | \$13,600.00 | 1569.56 | \$156,956.00 | \$143,356.00 | 91.34 |
| 803.01 | SODDING (NEW SOD) | SY | \$3.00 | 16836 | \$50,508.00 | 42672 | \$128,016.00 | \$77,508.00 | 60.55 |
| 805.12.02 | EROSION CONTROL BLANKET (TP II) | SY | \$2.50 | 0 | \$0.00 | 0 | \$0.00 | \$0.00 | 0.00 |
| 920.10.04 | MAST ARM VIBRATION DAMPENING DEVICE | EACH | \$1,378.00 | 4 | \$5,512.00 | 4 | \$5,512.00 | \$0.00 | 0.00 |
| 920.10.05 | GATOR PATCH AND SPLICE | LS | \$1,473.00 | 1 | \$1,473.00 | 2 | \$2,946.00 | \$1,473.00 | 50.00 |
| 920.12.04 | EXTERUS CAUSULA SOLUTUM (CONTINGENCY) | LS | \$169,918.83 | 1 | \$169,918.83 | 1 | \$84,995.85 | -\$84,922.98 | -99.91 |
| 920.12.05 | MVUD TAP FEE | LS | \$8,000.00 | 1 | \$8,000.00 | 1 | \$8,000.00 | \$0.00 | 0.00 |
| H 1.0 | STONE MASONRY COLUMNS | EACH | \$10,100.00 | 4 | \$40,400.00 | 4 | \$40,400.00 | \$0.00 | 0.00 |
| H 2.0 | IRRIGATION SYSTEM | L.S. | \$110,893.96 | 1 | \$110,893.96 | 1 | \$110,893.96 | \$0.00 | 0.00 |
| H 3.0 | TREE PROTECTION FENCING | LF | \$2.02 | 0 | \$0.00 | 0 | \$0.00 | \$0.00 | 0.00 |
| H 4.0 | PLANTING | LS | \$68,706.56 | 1 | \$68,706.56 | 1 | \$68,706.56 | \$0.00 | 0.00 |
| 802.01.10 | OCTOBER GLORY RED MAPLE (2"-2 1/2" CALIPER, 8'-10' HEIGHT) | EACH | \$319.44 | 16 | \$5,111.04 | 16 | \$5,111.04 | \$0.00 | 0.00 |
| 802.01.11 | SERVICEBERRY (2"-2-1/2" CALIPER, 7'-8' HEIGHT) | EACH | \$309.14 | 19 | \$5,873.66 | 19 | \$5,873.66 | \$0.00 | 0.00 |
| 802.01.12 | REDBUD (8'-10' HEIGHT) | EACH | \$259.32 | 50 | \$12,966.00 | 50 | \$12,966.00 | \$0.00 | 0.00 |
| 802.01.13 | DOGWOOD (8'-10' HEIGHT) | EACH | \$299.56 | 16 | \$4,792.96 | 16 | \$4,792.96 | \$0.00 | 0.00 |
| 802.01.14 | AMERICAN HOLLY (6'-8' HEIGHT) | EACH | \$280.76 | 2 | \$561.52 | 4 | \$1,123.04 | \$561.52 | 50.00 |
| 802.01.15 | EASTERN RED CEDAR (2" MIN., 6'-7' HEIGHT) | EACH | \$217.03 | 78 | \$16,928.34 | 78 | \$16,928.34 | \$0.00 | 0.00 |

| ITEM # | ITEM DESCRIPTION | UNIT | PRICE | CONTRACT QUANTITY | CONTRACT AMOUNT | QTY PD TO DATE | TOTAL \$ AMT PAID | \$\$\$ OVER/ UNDER | % OVER/ UNDER |
|-----------|--|------|------------|-------------------|-----------------|----------------|-------------------|--------------------|---------------|
| 802.01.16 | BLACK GUM (3"-3 1/2" CALIPER, 14'-16" HEIGHT) | EACH | \$639.17 | 5 | \$3,195.85 | 5 | \$3,195.85 | \$0.00 | 0.00 |
| 802.01.17 | NUTTALL OAK (3"-3 1/2" CALIPER, 14'-16" HEIGHT) | EACH | \$549.83 | 14 | \$7,694.82 | 14 | \$7,694.82 | \$0.00 | 0.00 |
| 803.03.01 | PURPLE BEAUTYBERRY (36" HEIGHT) | EACH | \$25.07 | 70 | \$1,754.90 | 70 | \$1,754.90 | \$0.00 | 0.00 |
| 803.03.02 | WARREN RED HOLLY (3'-4" HEIGHT) | EACH | \$37.17 | 25 | \$929.25 | 25 | \$929.25 | \$0.00 | 0.00 |
| 803.03.03 | VIRGINIA SWEETSPICE (24"-30" HEIGHT) | EACH | \$29.56 | 81 | \$2,394.36 | 96 | \$2,837.76 | \$443.40 | 15.63 |
| 802.04.70 | BLACKKEYED SUSAN | EACH | \$13.76 | 422 | \$5,806.72 | 519 | \$7,141.44 | \$1,334.72 | 18.69 |
| 920.11.01 | PVC SCHEDULE 40 2" TRENCH & BACKFILL | L.F. | \$5.56 | 7500 | \$41,700.00 | 10231 | \$56,884.36 | \$15,184.36 | 26.69 |
| 920.11.02 | PVC SCHEDULE 40 3" TRENCH & BACKFILL | L.F. | \$6.77 | 4150 | \$28,095.50 | 4620 | \$31,277.40 | \$3,181.90 | 10.17 |
| 920.11.03 | WIRE, 600V, SOLID *6 THWN | LF | \$0.55 | 42000 | \$23,100.00 | 41520 | \$22,836.00 | -\$264.00 | -1.16 |
| 920.11.04 | WIRE, 600V, SOLID *8 THWN | LF | \$0.88 | 0 | \$0.00 | 0 | \$0.00 | \$0.00 | 0.00 |
| 920.11.05 | WIRE, 600V, SOLID *1 THWN | LF | \$0.62 | 12100 | \$7,502.00 | 12098 | \$7,500.76 | -\$1.24 | -0.02 |
| 920.11.06 | S1, STREET 30" POLE 2-250W | EACH | \$2,552.34 | 50 | \$127,617.00 | 55 | \$140,378.70 | \$12,761.70 | 9.09 |
| 920.11.07 | LIGHT POLE CONCRETE BASE | EACH | \$1,240.12 | 50 | \$62,006.00 | 43 | \$53,325.16 | -\$8,680.84 | -16.28 |
| 920.11.08 | PULLBOXES | EACH | \$379.04 | 50 | \$18,952.00 | 67 | \$25,395.68 | \$6,443.68 | 25.37 |
| 920.11.09 | TDOT TYPE 2 CITY FIBER PULL BOX | EACH | \$1,437.88 | 14 | \$20,130.32 | 9 | \$12,940.92 | -\$7,189.40 | -55.56 |
| 920.11.10 | IRRIGATION CIRCUIT INCLUDING FEES | L.S. | \$4,935.76 | 1 | \$4,935.76 | 1 | \$4,935.76 | \$0.00 | 0.00 |
| W1 | 18" DIP CL 52 WATER LINE | LF | \$130.86 | 3800 | \$497,268.00 | 3802 | \$497,529.72 | \$261.72 | 0.05 |
| W2 | 18" DIP CL 52 WATER LINE INSTALLED IN CASING W/ CASING SPACERS | LF | \$201.98 | 42 | \$8,445.36 | 42 | \$8,445.36 | \$0.00 | 0.00 |
| W3 | 12" DIP CL 52 WATER LINE | LF | \$95.55 | 110 | \$10,510.50 | 66 | \$6,306.30 | -\$4,204.20 | -66.67 |
| W4 | 12" DIP CL 52 WATER LINE IN CASING W/ CASING SPACERS | LF | \$130.73 | 570 | \$74,516.10 | 570 | \$74,516.10 | \$0.00 | 0.00 |
| W5 | 6" DIP CL 52 WATER LINE | LF | \$74.03 | 50 | \$3,701.50 | 11 | \$814.33 | -\$2,887.17 | -354.55 |
| W6 | 36" STEEL CASING, 0.5" WALL THICKNESS, INSTALLED IN OPEN CUT | LF | \$228.90 | 42 | \$9,613.80 | 42 | \$9,613.80 | \$0.00 | 0.00 |
| W7 | 24" STEEL CASING, 0.375" WALL THICKNESS, INSTALLED IN OPEN CUT | LF | \$55.65 | 570 | \$31,720.50 | 563 | \$31,330.95 | -\$389.55 | -1.24 |
| W8 | 18" BUTTERFLY VALVE W/ VALVE BOX | EACH | \$2,785.65 | 9 | \$25,070.85 | 9 | \$25,070.85 | \$0.00 | 0.00 |
| W9 | 12" GATE VALVE W/ VALVE BOX | EACH | \$2,176.65 | 12 | \$26,119.80 | 11 | \$23,943.15 | -\$2,176.65 | -9.09 |
| W10 | 6" GATE VALVE W/ VALVE BOX | EACH | \$1,002.75 | 6 | \$6,016.50 | 6 | \$6,016.50 | \$0.00 | 0.00 |
| W11 | 5-1/4" INCH FIRE HYDRANT | EACH | \$1,732.50 | 6 | \$10,395.00 | 6 | \$10,395.00 | \$0.00 | 0.00 |
| W12 | CONNECT TO EXISTING 18" WATER LINE | EACH | \$5,775.00 | 1 | \$5,775.00 | 1 | \$5,775.00 | \$0.00 | 0.00 |
| W13 | 12" X 12" TAPPING SLEEVE & VALVE w/ VALVE BOX | EACH | \$4,620.00 | 1 | \$4,620.00 | 1 | \$4,620.00 | \$0.00 | 0.00 |
| W14 | DI FITTINGS | LBS | \$3.15 | 8000 | \$25,200.00 | 7574 | \$23,858.10 | -\$1,341.90 | -5.62 |
| W15 | 18" MEGA LUG RESTRAINT DEVICE | EACH | \$248.85 | 36 | \$8,958.60 | 56 | \$13,935.60 | \$4,977.00 | 35.71 |
| W16 | 12" MEGA LUG RESTRAINT DEVICE | EACH | \$103.95 | 26 | \$2,702.70 | 38 | \$3,950.10 | \$1,247.40 | 31.58 |
| W17 | 6" MEGA LUG RESTRAINT DEVICE | EACH | \$39.90 | 8 | \$319.20 | 14 | \$558.60 | \$239.40 | 42.86 |
| W18 | 1" TEST TAP ASSEMBLY | EACH | \$718.20 | 0 | \$0.00 | 0 | \$0.00 | \$0.00 | 0.00 |
| SP 109 B | ADJUSTMENT FOR BITUMINOUS MATERIAL | LS | \$1.00 | 0 | \$0.00 | 0 | \$0.00 | \$0.00 | 0.00 |

| ITEM # | ITEM DESCRIPTION | UNIT | UNIT PRICE | CONTRACT QUANTITY | CONTRACT AMOUNT | QTY PD TO DATE | TOTAL \$ AMT PAID | \$\$\$ OVER/ UNDER | % OVER/ UNDER |
|-----------|--|------|---------------|-------------------|-----------------|----------------|-------------------|--------------------|---------------|
| SP 2 | EARLY PROJECT COMPLETION INCENTIVE | LS | -\$120,000.00 | 0 | \$0.00 | 1 | \$120,000.00 | \$120,000.00 | |
| 920.11.33 | LIGHT POLE SPREAD FOOTER | EACH | \$1,535.00 | 13 | \$19,955.00 | 7 | \$10,745.00 | -\$9,210.00 | -85.71 |
| 920.11.11 | MILBANK METER PEDASTAL & MTEMC TRANSFORMER PAD | LS | \$19,272.00 | 1 | \$19,272.00 | 1 | \$19,272.00 | \$0.00 | 0.00 |
| 920.11.12 | DIRECTIONAL BORE FOR ADVANCED LOOPS AT CAROTHERS AND MCEV | LF | \$118.71 | 120 | \$14,245.20 | 120 | \$14,245.20 | \$0.00 | 0.00 |
| 920.11.13 | INSTALL LADDERS IN MTEMC MANHOLES MCEWEN DRIVE/CAROTHERS | EACH | \$4,830.00 | 2 | \$9,660.00 | 2 | \$9,660.00 | \$0.00 | 0.00 |
| 770.01.01 | RELOCATE MTEMC POWER POLE | LS | \$2,275.29 | 1 | \$2,275.29 | 1 | \$2,275.29 | \$0.00 | 0.00 |
| 920.11.28 | MANHOLE - ELECTRIC (INSTALLATION ONLY) | EA | \$6,921.60 | 1 | \$6,921.60 | 1 | \$6,921.60 | \$0.00 | 0.00 |
| 920.11.14 | DUCT BANK EXTENSION 8-4" & 6-6" CONC (LIBERTY/CAROTHERS EXTEN) | LF | \$281.79 | 150 | \$42,268.50 | 150 | \$42,268.50 | \$0.00 | 0.00 |
| 920.11.20 | CONDUIT DUCT BANK 5-4" (LIBERTY/CAROTHERS EXTENSION) | LF | \$256.93 | 150 | \$38,539.50 | 150 | \$38,539.50 | \$0.00 | 0.00 |
| 920.11.31 | CONDUIT DUCT BANK 1-2" & 1-3" (LIBERTY/CAROTHERS EXTENSION) | LF | \$59.67 | 150 | \$8,950.50 | 150 | \$8,950.50 | \$0.00 | 0.00 |
| 920.11.32 | REMOVE/REPLACE EXISTING STORM DRAINWQU | L.S. | \$3,425.07 | 1 | \$3,425.07 | 1 | \$3,425.07 | \$0.00 | 0.00 |
| 920.11.34 | ADVANCED LOOP VEHICLE DETECTOR CABLE MCEWEN WEST | LF | \$9.10 | 385 | \$3,503.50 | 385 | \$3,503.50 | \$0.00 | 0.00 |
| 802.04.71 | INSTALL RAINGAUGE ON PHASE I CONTROLLER | LS | \$2,928.27 | 1 | \$2,928.27 | 1 | \$2,928.27 | \$0.00 | 0.00 |
| 770.01.02 | VEHICLE DETECTOR (FOUR CHANNEL, RACK MOUNT) MCEWEN/CAROT | LS | \$6,709.00 | 1 | \$6,709.00 | 1 | \$6,709.00 | \$0.00 | 0.00 |
| 770.01.03 | RACK MOUNT LOOP DETECTION LIBERTY PIKE AND MTEMC MANHOLE T | LS | \$7,191.00 | 1 | \$7,191.00 | 1 | \$7,191.00 | \$0.00 | 0.00 |

| | |
|------------------------|----------------|
| TOTAL CONTRACT AMOUNT: | \$5,787,228.09 |
| TOTAL AMOUNT PAID: | \$5,787,067.29 |

PROJECT UNDER: -\$160.80
\$160.80

This Final Change Order heretofore agreed by the Undersigned, in accordance with the terms of the Carothers Parkway Phase II contract documents does hereby warrant and guarantee the project complete and final in accordance with the approved plans and specifications and that all contractual obligations have been met and satisfied.

RECOMMENDED BY: (Construction Manager) Tom Lamb

[Signature]

APPROVED BY: (Contractor) Craig Strelt

[Signature]

APPROVED BY: Ohio Farmers Insurance Company

[Signature]

APPROVED BY: (City of Franklin) Eric Gardner

APPROVED BY: (Project Engineer) James Sarr

[Signature]

C.I.P.

PROJECT #

431000607