

Wetherill Engineering, Inc.
Final Construction Estimate

TIP No.: I-40 Bridge Pedestrian Retrofits-Trailwood Drive FINAL

County: Wake

Route: SR 1348 (Trailwood Dr.)

From:
Typical Section

CONSTR. COST
\$1,017,305

Prepared By: WEI
Requested By: City of Raleigh

Date 9/26/2017
Date

| Line Item | Std. Item No. | Description | Qty | Unit | Price | Amount | Browe Const. | | Fred Smith | |
|-----------|---------------|--|---------|------|--------------|---------------|--------------|---------------|--------------|---------------|
| | | | | | | | Price | Amount | Price | Amount |
| 1 | 0000100000-N | Mobilization | 1.00 | LS | \$ 93,000.00 | \$ 93,000.00 | \$ 93,500.00 | \$ 93,500.00 | \$ 63,000.00 | \$ 63,000.00 |
| 2 | 0043000000-N | Grading | 1.00 | LS | \$135,000.00 | \$ 135,000.00 | \$588,125.00 | \$ 588,125.00 | \$430,000.00 | \$ 430,000.00 |
| 3 | 0050000000-E | Supplemental Clearing & Grubbing | 1.00 | Acre | \$ 6,300.00 | \$ 6,300.00 | \$ 12,500.00 | \$ 12,500.00 | \$ 1.00 | \$ 1.00 |
| 4 | 0134000000-E | Drainage Ditch Excavation | 3.00 | CY | \$ 30.00 | \$ 90.00 | \$ 1,500.00 | \$ 4,500.00 | \$ 20.00 | \$ 60.00 |
| 5 | 0196000000-E | Geotextile for Soil Stabilization | 100.00 | SY | \$ 2.00 | \$ 200.00 | \$ 20.00 | \$ 2,000.00 | \$ 2.00 | \$ 200.00 |
| 6 | 0318000000-E | Foundation Conditioning Material, Minor Structures | 45.00 | Tons | \$ 30.00 | \$ 1,350.00 | \$ 100.00 | \$ 4,500.00 | \$ 35.00 | \$ 1,575.00 |
| 7 | 0320000000-E | Foundation Conditioning Geotextile | 140.00 | SY | \$ 2.00 | \$ 280.00 | \$ 10.00 | \$ 1,400.00 | \$ 2.00 | \$ 280.00 |
| 8 | 0366000000-E | 15" RC Pipe Culverts, Class III | 24.00 | LF | \$ 50.00 | \$ 1,200.00 | \$ 150.00 | \$ 3,600.00 | \$ 50.00 | \$ 1,200.00 |
| 9 | 0448200000-E | 15" RC Pipe Culverts, Class IV | 356.00 | LF | \$ 80.00 | \$ 28,480.00 | \$ 100.00 | \$ 35,600.00 | \$ 50.00 | \$ 17,800.00 |
| 10 | 1489000000-E | Asphalt Conc. Base Course, B25.0B | 165.00 | Tons | \$ 80.00 | \$ 13,200.00 | \$ 200.00 | \$ 33,000.00 | \$ 125.00 | \$ 20,625.00 |
| 11 | 1498000000-E | Asphalt Conc. Intermediate Course, I19.0B | 70.00 | Tons | \$ 100.00 | \$ 7,000.00 | \$ 200.00 | \$ 14,000.00 | \$ 145.00 | \$ 10,150.00 |
| 12 | 1519000000-E | Asphalt Conc. Surf. Course, S9.5B | 65.00 | Tons | \$ 40.00 | \$ 2,600.00 | \$ 350.00 | \$ 22,750.00 | \$ 270.00 | \$ 17,550.00 |
| 13 | 1575000000-E | Asphalt Binder for Plant Mix | 15.00 | Tons | \$ 390.00 | \$ 5,850.00 | \$ 600.00 | \$ 9,000.00 | \$ 420.00 | \$ 6,300.00 |
| 14 | 2253000000-E | Pipe Collars | 1.00 | CY | \$ 1,580.00 | \$ 1,580.00 | \$ 1,200.00 | \$ 1,200.00 | \$ 1,500.00 | \$ 1,500.00 |
| 15 | 2275000000-E | Flowable Fill | 3.00 | CY | \$ 260.00 | \$ 780.00 | \$ 350.00 | \$ 1,050.00 | \$ 475.00 | \$ 1,425.00 |
| 16 | 2286000000-N | Masonry Drainage Structures | 14.00 | Each | \$ 3,050.00 | \$ 42,700.00 | \$ 3,000.00 | \$ 42,000.00 | \$ 2,500.00 | \$ 35,000.00 |
| 17 | 2308000000-E | Masonry Drainage Structures | 6.00 | LF | \$ 180.00 | \$ 1,080.00 | \$ 750.00 | \$ 4,500.00 | \$ 400.00 | \$ 2,400.00 |
| 18 | 2366000000-N | Frame w/ Two Grates, Std. 840.24 | 2.00 | Each | \$ 590.00 | \$ 1,180.00 | \$ 1,000.00 | \$ 2,000.00 | \$ 850.00 | \$ 1,700.00 |
| 19 | 2374000000-N | Frame w/ Grate & Hood, Std. 840.03, | 1.00 | Each | \$ 760.00 | \$ 760.00 | \$ 1,000.00 | \$ 1,000.00 | \$ 850.00 | \$ 850.00 |
| 20 | 2374000000-N | Frame w/ Grate & Hood, Std. 840.03, | 5.00 | Each | \$ 770.00 | \$ 3,850.00 | \$ 1,000.00 | \$ 5,000.00 | \$ 850.00 | \$ 4,250.00 |
| 21 | 2374000000-N | Frame w/ Grate & Hood, Std. 840.03 Type | 4.00 | Each | \$ 770.00 | \$ 3,080.00 | \$ 1,000.00 | \$ 4,000.00 | \$ 850.00 | \$ 3,400.00 |
| 22 | 2396000000-N | Frame w/ Cover, Std. 840.54 | 2.00 | Each | \$ 580.00 | \$ 1,160.00 | \$ 750.00 | \$ 1,500.00 | \$ 850.00 | \$ 1,700.00 |
| 23 | 2549000000-E | 2'-6" Concrete Curb and Gutter | 1160.00 | LF | \$ 20.00 | \$ 23,200.00 | \$ 35.00 | \$ 40,600.00 | \$ 20.00 | \$ 23,200.00 |
| 24 | 2591000000-E | 4" Concrete Sidewalk | 800.00 | SY | \$ 50.00 | \$ 40,000.00 | \$ 50.00 | \$ 40,000.00 | \$ 35.00 | \$ 28,000.00 |
| 25 | 2605000000-N | Concrete Curb Ramp, Type N-2 | 2.00 | Each | \$ 2,100.00 | \$ 4,200.00 | \$ 2,850.00 | \$ 5,700.00 | \$ 2,200.00 | \$ 4,400.00 |
| 26 | 2845000000-N | Adjustment of Meter Boxes or Valve | 1.00 | Each | \$ 700.00 | \$ 700.00 | \$ 1,000.00 | \$ 1,000.00 | \$ 900.00 | \$ 900.00 |

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|----|--------------|--|---------|------|--------------|---------------|--------------|---------------|-------------|--------------|
| 27 | 2905000000-N | Convert Existing Drop Inlet to Junction Box W/ Manhole | 2.00 | Each | \$ 1,940.00 | \$ 3,880.00 | \$ 2,000.00 | \$ 4,000.00 | \$ 2,100.00 | \$ 4,200.00 |
| 28 | 3030000000-E | Steel Bm Guardrail | 275.00 | LF | \$ 20.00 | \$ 5,500.00 | \$ 35.00 | \$ 9,625.00 | \$ 18.00 | \$ 4,950.00 |
| 29 | 3150000000-N | Additional Guardrail Posts | 5.00 | Each | \$ 40.00 | \$ 200.00 | \$ 100.00 | \$ 500.00 | \$ 40.00 | \$ 200.00 |
| 30 | 3210000000-N | CAT-1 | 2.00 | Each | \$ 580.00 | \$ 1,160.00 | \$ 1,250.00 | \$ 2,500.00 | \$ 650.00 | \$ 1,300.00 |
| 31 | 3215000000-N | Type III Anchor Unit | 4.00 | Each | \$ 1,580.00 | \$ 6,320.00 | \$ 2,300.00 | \$ 9,200.00 | \$ 1,750.00 | \$ 7,000.00 |
| 32 | 3270000000-N | GREU 350 | 2.00 | Each | \$ 2,100.00 | \$ 4,200.00 | \$ 3,150.00 | \$ 6,300.00 | \$ 3,250.00 | \$ 6,500.00 |
| 33 | 3360000000-E | Remove Exist. Guardrail | 850.00 | LF | \$ 2.00 | \$ 1,700.00 | \$ 8.00 | \$ 6,800.00 | \$ 1.00 | \$ 850.00 |
| 34 | 3566000000-E | Woven Wire Fence Reset | 48.00 | LF | \$ 20.00 | \$ 960.00 | \$ 20.00 | \$ 960.00 | \$ 35.00 | \$ 1,680.00 |
| 35 | 3649000000-E | Rip Rap, Class B | 1.00 | Ton | \$ 80.00 | \$ 80.00 | \$ 250.00 | \$ 250.00 | \$ 250.00 | \$ 250.00 |
| 36 | 3656000000-E | Geotextile for Drainage | 445.00 | SY | \$ 2.00 | \$ 890.00 | \$ 10.00 | \$ 4,450.00 | \$ 2.00 | \$ 890.00 |
| 37 | 4400000000-E | Stationary Work Zone Signs | 162.00 | SF | \$ 10.00 | \$ 1,620.00 | \$ 30.00 | \$ 4,860.00 | \$ 12.00 | \$ 1,944.00 |
| 38 | 4405000000-E | Portable Work Zone Signs | 240.00 | SF | \$ 20.00 | \$ 4,800.00 | \$ 30.00 | \$ 7,200.00 | \$ 35.00 | \$ 8,400.00 |
| 39 | 4410000000-E | Barricade Mounted Work Zone Signs | 11.00 | SF | \$ 10.00 | \$ 110.00 | \$ 30.00 | \$ 330.00 | \$ 13.00 | \$ 143.00 |
| 40 | 4422000000-N | Portable Changeable Message Sign (Short Term) | 24.00 | Days | \$ 80.00 | \$ 1,920.00 | \$ 1,000.00 | \$ 24,000.00 | \$ 60.00 | \$ 1,440.00 |
| 41 | 4430000000-N | Drums | 281.00 | Each | \$ 70.00 | \$ 19,670.00 | \$ 100.00 | \$ 28,100.00 | \$ 37.00 | \$ 10,397.00 |
| 42 | 4445000000-E | Barricade (Type III) | 24.00 | LF | \$ 20.00 | \$ 480.00 | \$ 100.00 | \$ 2,400.00 | \$ 23.25 | \$ 558.00 |
| 43 | 4450000000-N | Flagger | 3600.00 | Hr | \$ 30.00 | \$ 108,000.00 | \$ 35.00 | \$ 126,000.00 | \$ 20.00 | \$ 72,000.00 |
| 44 | 4480000000-N | TMA | 2.00 | Each | \$ 21,000.00 | \$ 42,000.00 | \$ 12,500.00 | \$ 25,000.00 | \$ 8,550.00 | \$ 17,100.00 |
| 45 | 4507000000-E | Water Filled Barrier | 1176.00 | LF | \$ 80.00 | \$ 94,080.00 | \$ 12.00 | \$ 14,112.00 | \$ 50.00 | \$ 58,800.00 |
| 46 | 4516000000-N | Skinny Drum | 17.00 | Each | \$ 40.00 | \$ 680.00 | 100 | \$ 1,700.00 | \$ 37.00 | \$ 629.00 |
| 47 | 4685000000-E | Thermoplastic (4", 90 Mils) | 440.00 | LF | \$ 1.00 | \$ 440.00 | \$ 6.00 | \$ 2,640.00 | \$ 4.00 | \$ 1,760.00 |
| 48 | 4695000000-E | Thermoplastic (8", 90 mils) | 60.00 | LF | \$ 2.00 | \$ 120.00 | \$ 7.00 | \$ 420.00 | \$ 9.00 | \$ 540.00 |
| 49 | 4710000000-E | Thermoplastic (24", 120 mils) | 1070.00 | LF | \$ 10.00 | \$ 10,700.00 | \$ 15.00 | \$ 16,050.00 | \$ 9.00 | \$ 9,630.00 |
| 50 | 4770000000-E | Cold Applied Plastic (4") Type-4, Removable Tape | 390.00 | LF | \$ 3.00 | \$ 1,170.00 | \$ 5.00 | \$ 1,950.00 | \$ 5.00 | \$ 1,950.00 |
| 51 | 4770000000-E | Cold Applied Plastic (4") Type 2- Permanent High Performance) | 660.00 | LF | \$ 3.00 | \$ 1,980.00 | \$ 5.00 | \$ 3,300.00 | \$ 4.00 | \$ 2,640.00 |
| 52 | 4850000000-E | Removal of Pavement Marking (4") | 2240.00 | LF | \$ 1.00 | \$ 2,240.00 | \$ 1.50 | \$ 3,360.00 | \$ 1.00 | \$ 2,240.00 |
| 53 | 5672000000-N | Relocate Fire Hydrant | 1.00 | Each | \$ 10,500.00 | \$ 10,500.00 | 12000 | \$ 12,000.00 | \$ 6,563.00 | \$ 6,563.00 |
| 54 | 6000000000-E | Temporary Silt Fence | 825.00 | LF | \$ 2.00 | \$ 1,650.00 | \$ 6.00 | \$ 4,950.00 | \$ 3.00 | \$ 2,475.00 |
| 55 | 6006000000-E | Erosion Control Stone, Class A | 180.00 | Tons | \$ 130.00 | \$ 23,400.00 | \$ 100.00 | \$ 18,000.00 | \$ 35.00 | \$ 6,300.00 |
| 56 | 6009000000-E | Erosion Control Stone, Class B | 20.00 | Tons | \$ 90.00 | \$ 1,800.00 | \$ 100.00 | \$ 2,000.00 | \$ 55.00 | \$ 1,100.00 |
| 57 | 6012000000-E | Sediment Control Stone | 105.00 | Tons | \$ 60.00 | \$ 6,300.00 | \$ 100.00 | \$ 10,500.00 | \$ 30.00 | \$ 3,150.00 |
| 58 | 6015000000-E | Temporary Mulching | 2.00 | Acre | \$ 950.00 | \$ 1,900.00 | \$ 5,000.00 | \$ 10,000.00 | \$ 1,000.00 | \$ 2,000.00 |
| 59 | 6018000000-E | Seed for Temporary Seeding | 200.00 | LB | \$ 10.00 | \$ 2,000.00 | \$ 10.00 | \$ 2,000.00 | \$ 4.00 | \$ 800.00 |
| 60 | 6021000000-E | Fertilizer for Temporary Seeding | 1.00 | Tons | \$ 960.00 | \$ 960.00 | \$ 2,000.00 | \$ 2,000.00 | \$ 900.00 | \$ 900.00 |
| 61 | 6024000000-E | Temporary Slope Drains | 200.00 | LF | \$ 10.00 | \$ 2,000.00 | \$ 50.00 | \$ 10,000.00 | \$ 20.00 | \$ 4,000.00 |

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|----|--------------|-------------------------------|---------|------|-------------|--------------|-------------|-----------------|-------------|-----------------|
| 62 | 6030000000-E | Silt Excavation | 150.00 | CY | \$ 10.00 | \$ 1,500.00 | \$ 40.00 | \$ 6,000.00 | \$ 15.00 | \$ 2,250.00 |
| 63 | 6036000000-E | Matting for Erosion Control | 6245.00 | SY | \$ 2.00 | \$ 12,490.00 | \$ 5.00 | \$ 31,225.00 | \$ 2.00 | \$ 12,490.00 |
| 64 | 6070000000-N | Special Stilling Basin | 2.00 | Each | \$ 390.00 | \$ 780.00 | \$ 7,500.00 | \$ 15,000.00 | \$ 400.00 | \$ 800.00 |
| 65 | 6071010000-E | Wattle | 330.00 | LF | \$ 4.00 | \$ 1,320.00 | \$ 10.00 | \$ 3,300.00 | \$ 10.00 | \$ 3,300.00 |
| 66 | 6071020000-E | Polyacrylamide (PAM) | 5.00 | LB | \$ 10.00 | \$ 50.00 | \$ 100.00 | \$ 500.00 | \$ 20.00 | \$ 100.00 |
| 67 | 6071030000-E | Coir Fiber Baffle | 105.00 | LF | \$ 10.00 | \$ 1,050.00 | \$ 10.00 | \$ 1,050.00 | \$ 7.00 | \$ 735.00 |
| 68 | 6084000000-E | Seeding and Mulching | 3.00 | Acre | \$ 2,000.00 | \$ 6,000.00 | \$ 5,000.00 | \$ 15,000.00 | \$ 1,500.00 | \$ 4,500.00 |
| 69 | 6087000000-E | Mowing | 3.00 | Acre | \$ 230.00 | \$ 690.00 | \$ 1,000.00 | \$ 3,000.00 | \$ 150.00 | \$ 450.00 |
| 70 | 6090000000-E | Seed for Repair Seeding | 50.00 | LB | \$ 10.00 | \$ 500.00 | \$ 20.00 | \$ 1,000.00 | \$ 4.00 | \$ 200.00 |
| 71 | 6093000000-E | Fertilizer for Repair Seeding | 0.25 | Tons | \$ 1,580.00 | \$ 395.00 | \$ 2,000.00 | \$ 500.00 | \$ 900.00 | \$ 225.00 |
| 72 | 6096000000-E | Seed for Supplemental Seeding | 75.00 | LB | \$ 10.00 | \$ 750.00 | \$ 10.00 | \$ 750.00 | \$ 3.00 | \$ 225.00 |
| 73 | 6108000000-E | Fertilizer Topdressing | 2.00 | Tons | \$ 1,420.00 | \$ 2,840.00 | \$ 2,000.00 | \$ 4,000.00 | \$ 500.00 | \$ 1,000.00 |
| 74 | 6114500000-N | Specialized Hand Mowing | 10.00 | Hr | \$ 80.00 | \$ 800.00 | \$ 200.00 | \$ 2,000.00 | \$ 75.00 | \$ 750.00 |
| 75 | 6117000000-N | Response to Erosion Control | 7.00 | Each | \$ 210.00 | \$ 1,470.00 | \$ 2,500.00 | \$ 17,500.00 | \$ 300.00 | \$ 2,100.00 |
| 76 | 6132000000-N | Concrete Washout Structure | 4.00 | Each | \$ 1,370.00 | \$ 5,480.00 | \$ 3,500.00 | \$ 14,000.00 | \$ 1,500.00 | \$ 6,000.00 |
| 77 | 8175000000-E | Class AA Concrete (Bridge) | 77.60 | CY | \$ 630.00 | \$ 48,888.00 | 2000 | \$ 155,200.00 | \$ 1,400.00 | \$ 108,640.00 |
| 78 | 8217000000-E | Reinforcing Steel (Bridge) | 4316.00 | LBS | \$ 2.00 | \$ 8,632.00 | 4 | \$ 17,264.00 | \$ 2.25 | \$ 9,711.00 |
| 79 | 8475000000-E | Two Bar Metal Rail | 532.00 | LF | \$ 120.00 | \$ 63,840.00 | 300 | \$ 159,600.00 | \$ 200.00 | \$ 106,400.00 |
| 80 | 8524000000-E | 72" Chain Link Fence | 540.00 | LF | \$ 140.00 | \$ 75,600.00 | 150 | \$ 81,000.00 | \$ 165.00 | \$ 89,100.00 |
| | | | | | | \$ - | | \$ 1,879,371.00 | | \$ 1,271,721.00 |

Lgth 0.25 N

ESTIMATE **\$1,017,305.00**