



ENGINEER'S ESTIMATE TT0600 - Northern Parkway: Agua Fria River to 99th Avenue Scoping Assessment
Draft Scoping Stage

| ITEM | DESCRIPTION | UNIT | QTY | UNIT COST | EXTENDED AMOUNT |
|-----------|--|------|---------|------------|-----------------|
| 201.01012 | Remove Tree, Diameter > 12 in | Each | 4 | \$1,000.00 | \$4,000.00 |
| 205.01150 | Roadway Excavation | CY | 54,320 | \$10.00 | \$543,200.00 |
| 212.01000 | Roadway Obliteration | SY | 1,811 | \$5.00 | \$9,055.00 |
| 215.01510 | Earthwork for Retention Basins | CY | 20,322 | \$8.00 | \$162,576.00 |
| 220.10150 | Riprap, D50=6 in | CY | 12 | \$80.00 | \$960.00 |
| 220.10225 | Riprap, D50=9 in | CY | 28 | \$95.00 | \$2,660.00 |
| 301.01000 | Subgrade Preparation | SY | 125,975 | \$4.00 | \$503,900.00 |
| 310.03100 | Aggregate Base Course, 4 in Thick | Ton | 148 | \$45.00 | \$6,660.00 |
| 310.03200 | Aggregate Base Course, 8 in Thick | Ton | 1,034 | \$45.00 | \$46,530.00 |
| 310.03255 | Aggregate Base Course, 10 in Thick | Ton | 64,211 | \$45.00 | \$2,889,495.00 |
| 310.03285 | Aggregate Base Course, 12 in Thick | Ton | 2,466 | \$45.00 | \$110,970.00 |
| 321.01202 | Asphalt Concrete Pavement (Superpave 1/2 in Mix, High Traffic) | Ton | 77,450 | \$50.00 | \$3,872,500.00 |
| 324.01080 | Portland Cement Concrete Pavement (PCCP) 8 in Thick | SY | 664 | \$70.00 | \$46,480.00 |
| 325.10375 | ARAC Pavement, High Traffic | Ton | 6,629 | \$90.00 | \$596,610.00 |
| 340.01110 | Vertical Curb & Gutter, Type A, H=6 in, MAG Det 220 | LF | 24,132 | \$20.00 | \$482,640.00 |
| 340.01150 | Single Curb, Type A, MAG Det 222 | LF | 22,690 | \$16.00 | \$363,040.00 |
| 340.01182 | Concrete Curb & Gutter, Type B, H=6 in, ADOT C-05.10 | LF | 4,749 | \$20.00 | \$94,980.00 |
| 340.01190 | Concrete Curb & Gutter Type 2 Transition, ADOT C-05.12 | LF | 34 | \$30.00 | \$1,020.00 |
| 340.01210 | Concrete Sidewalk, MAG Det 230 | SF | 108,623 | \$8.00 | \$868,984.00 |
| 340.01349 | Radial Parallel Curb Ramp, MAG Det 236-5 | Each | 14 | \$2,500.00 | \$35,000.00 |
| 340.01390 | Curb Ramp, Modified MAG Det 237-1, Attached Sidewalk | Each | 9 | \$2,500.00 | \$22,500.00 |
| 340.01391 | Curb Ramp, Modified MAG Det 237-2, Detached Sidewalk | Each | 6 | \$2,500.00 | \$15,000.00 |
| 340.01392 | Parallel Curb Ramp, MAG Det 238-3 | Each | 1 | \$2,000.00 | \$2,000.00 |
| 340.01405 | Driveway Entrance, MAG Det 250-1, Commercial/Industrial | SF | 1,653 | \$10.00 | \$16,530.00 |
| 340.01425 | Driveway Entrance, MAG Det 250-2, Commercial/Industrial | SF | 700 | \$10.00 | \$7,000.00 |
| 340.01440 | Driveway Entrance, Glendale Det G-458 | SF | 163 | \$10.00 | \$1,630.00 |
| 340.01600 | Concrete Apron & Valley Gutter, MAG Det 240 | SF | 16,508 | \$7.00 | \$115,556.00 |
| 345.01100 | Adjust Manhole Frame & Cover, MAG Det 422 | Each | 36 | \$600.00 | \$21,600.00 |
| 345.01200 | Adjust Valve Box & Cover, MAG Det 391-1-A | Each | 76 | \$400.00 | \$30,400.00 |
| 350.01800 | Remove Concrete Curb & Gutter | LF | 14,144 | \$5.00 | \$70,720.00 |
| 350.01900 | Remove Sidewalk | SF | 57,217 | \$2.00 | \$114,434.00 |
| 350.01901 | Remove Sidewalk Ramps | Each | 28 | \$500.00 | \$14,000.00 |
| 350.02000 | Remove Gate | Each | 3 | \$150.00 | \$450.00 |
| 350.03000 | Remove and Salvage Street Light | Each | 51 | \$500.00 | \$25,500.00 |
| 350.04000 | Remove and Salvage Traffic Sign Assembly | Each | 58 | \$80.00 | \$4,640.00 |
| 350.05000 | Remove Guardrail | LF | 589 | \$10.00 | \$5,890.00 |
| 350.31000 | Remove Chain Link Fence | LF | 2,154 | \$2.00 | \$4,308.00 |
| 350.32000 | Remove Block Wall | LF | 1,414 | \$25.00 | \$35,350.00 |



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|-----------|--|----------|--------|----------------|----------------|
| 350.33000 | Remove Post | Each | 5 | \$75.00 | \$375.00 |
| 350.34000 | Remove Storm Drain Manhole | Each | 1 | \$800.00 | \$800.00 |
| 351.01660 | Relocate Water Meter | Each | 3 | \$2,000.00 | \$6,000.00 |
| 351.40010 | Relocate Traffic Sign, Det 2060 | Each | 27 | \$200.00 | \$5,400.00 |
| 420.00180 | 6 ft High Chain Link Fence, MAG Det 160 | LF | 67 | \$20.00 | \$1,340.00 |
| 430.01000 | Landscape and Planting | Lump Sum | 1 | \$2,195,000.00 | \$2,195,000.00 |
| 461.01100 | 4 in White Traffic Paint Stripe | LF | 46,213 | \$0.25 | \$11,553.25 |
| 461.01200 | 4 in Yellow Traffic Paint Stripe | LF | 8,922 | \$0.25 | \$2,230.50 |
| 461.01511 | Paint Symbol Left Turn Arrow | Each | 24 | \$75.00 | \$1,800.00 |
| 461.01512 | Paint Symbol Right Turn Arrow | Each | 36 | \$75.00 | \$2,700.00 |
| 461.01513 | Paint Symbol U Turn Arrow | Each | 4 | \$100.00 | \$400.00 |
| 461.01520 | Paint Symbol Bike Lane Marking Set | Each | 5 | \$500.00 | \$2,500.00 |
| 461.01521 | Paint Symbol Merge Arrow | Each | 6 | \$75.00 | \$450.00 |
| 463.01100 | Reflectorized Raised Pavement Marker (Type D, Yellow, 2-Way) | Each | 304 | \$3.50 | \$1,064.00 |
| 463.01200 | Reflectorized Raised Pavement Marker (Type G, Clear, 1-Way) | Each | 1,770 | \$3.50 | \$6,195.00 |
| 464.02000 | Perforated Sign Post | LF | 502 | \$10.00 | \$5,020.00 |
| 464.02001 | Perforated Sign Post Foundation, Det 2058 | Each | 40 | \$125.00 | \$5,000.00 |
| 465.01002 | Flat Sheet Aluminum Sign Panel, High Intensity Grade | SF | 152 | \$25.00 | \$3,800.00 |
| 465.01003 | Flat Sheet Aluminum Sign Panel, Diamond Grade | SF | 108 | \$25.00 | \$2,700.00 |
| 471.60000 | Traffic Signal | Each | 4 | \$300,000.00 | \$1,200,000.00 |
| 477.70000 | Roadway Lighting | Lump Sum | 1 | \$550,000.00 | \$550,000.00 |
| 481.00000 | ITS Components | Lump Sum | 1 | \$1,225,000.00 | \$1,225,000.00 |
| 505.01001 | Bridge - New River Bridge | Lump Sum | 1 | \$2,900,000.00 | \$2,900,000.00 |
| 505.12300 | Catch Basin, Flush with Apron, ADOT C-15.80 | Each | 1 | \$5,500.00 | \$5,500.00 |
| 505.12320 | Catch Basin, ADOT C-15.91, Type B Curb | Each | 8 | \$4,500.00 | \$36,000.00 |
| 505.13612 | Catch Basin PHX Std P-1569-1, Type M | Each | 3 | \$5,000.00 | \$15,000.00 |
| 505.13614 | Catch Basin PHX Std P-1569-1, Type M-1, L=3 ft | Each | 5 | \$5,000.00 | \$25,000.00 |
| 505.13615 | Catch Basin PHX Std P-1569-1, Type M-1, L=6 ft | Each | 22 | \$6,000.00 | \$132,000.00 |
| 505.13616 | Catch Basin PHX Std P-1569-1, Type M-1, L=10 ft | Each | 22 | \$7,000.00 | \$154,000.00 |
| 505.13617 | Catch Basin PHX Std P-1569-1, Type M-1, L=17 ft | Each | 8 | \$8,000.00 | \$64,000.00 |
| 505.19000 | 8 ft Tall Decorative CMU Soundwall - ADOT SD-8.02 | SF | 51,975 | \$45.00 | \$2,338,875.00 |
| 505.19001 | CMU Soundwall Construction Mitigation Measures | Lump Sum | 1 | \$500,000.00 | \$500,000.00 |
| 515.20006 | Bollard, Type I, 6 in Diameter, MAG Det 140 | Each | 1 | \$300.00 | \$300.00 |
| 523.14124 | Headwall, MAG Det 501-4, 24 in Pipe | Each | 6 | \$3,900.00 | \$23,400.00 |
| 523.14148 | Headwall, MAG Det 501-4, 48 in Pipe | Each | 2 | \$5,200.00 | \$10,400.00 |
| 610.27000 | Relocate Fire Hydrant, MAG Det 360 | Each | 7 | \$1,800.00 | \$12,600.00 |
| 618.20318 | 18 in RGRCP, Class III | LF | 1,104 | \$85.00 | \$93,840.00 |
| 618.20324 | 24 in RGRCP, Class III | LF | 4,833 | \$90.00 | \$434,970.00 |
| 618.20330 | 30 in RGRCP, Class III | LF | 1,327 | \$132.00 | \$175,164.00 |
| 618.20336 | 36 in RGRCP, Class III | LF | 916 | \$147.00 | \$134,652.00 |
| 618.20348 | 48 in RGRCP, Class III | LF | 2,100 | \$300.00 | \$630,000.00 |
| 625.01100 | Storm Drain Manhole, MAG Det 520 & 522 | Each | 30 | \$5,800.00 | \$174,000.00 |
| 804.01000 | Bridge Aesthetics - Decorative Fencing, Enhanced Decorative Concrete Columns | LF | 1,850 | \$160.00 | \$296,000.00 |



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|-----------|--|----------|---|--------------|--------------|
| 804.02000 | Internally Illuminated Entry Monument | Each | 2 | \$250,000.00 | \$500,000.00 |
| (A) | IDENTIFIED ITEMS | | | | \$25,033,797 |
| (B) | UNIDENTIFIED ITEMS @ | 25% | | | \$6,259,000 |
| (C) | SUBTOTAL ITEMS COST | | | | \$31,292,797 |
| (D) | TRAFFIC CONTROL @ | 8% | | | \$2,504,000 |
| (E) | AZPDES @ | 2% | | | \$626,000 |
| (F) | ENVIRONMENTAL MITIGATION MEASURES | 1% | | | \$313,000 |
| (G) | MOBILIZATION / DEMOBILIZATION @ | 5% | | | \$1,565,000 |
| (H) | EQUIPMENT / MATERIAL COST | Lump Sum | 1 | | \$0 |
| (I) | TOTAL CONSTRUCTION COST | | | | \$36,300,797 |
| (J) | CONSTRUCTION CONTINGENCY @ | 5% | | | \$1,816,000 |
| (K) | CONSTRUCTION MANAGEMENT @ | 15% | | | \$5,446,000 |
| (L) | DESIGN @ | 8% | | | \$2,905,000 |
| (M) | RIGHT-OF-WAY | | | | \$5,091,000 |
| (N) | UTILITY RELOCATION | | | | \$4,875,000 |
| (O) | IMPLEMENTATION SEGMENT BREAKOUT ADJUSTMENT @ | 10% | | | \$3,631,000 |
| (P) | SUBTOTAL OTHER PROJECT COST | | | | \$23,764,000 |
| (Q) | MCDOT IN-HOUSE COSTS @ | | | | \$0 |
| (R) | TOTAL PROJECT COST | | | | \$60,064,797 |