

















## ARIZONA TRANSPORTATION ENHANCEMENT PROGRAM ROUND 18 (2010) COST ESTIMATE

### IMPORTANT CONSIDERATIONS

- List all items necessary to develop and construct or implement your project.
- The applicant is responsible for verifying all costs and their accuracy.
- Unit prices must be a reasonable representation of the work to be performed.
- The use of federal funds for project Scoping and Design is optional.
- All federal funds must have FHWA authorization prior to incurring any costs to be reimbursed.
- Funds paid for reimbursement of costs incurred shall be returned if project is not constructed.

**LOCAL PROJECTS:** The amount of federal funds requested for project scoping and design should not exceed 30% of the total amount of federal aid requested. Cost overruns will be the responsibility of the Local sponsoring agency.

**STATE PROJECTS:** To be eligible for State designation, the project must be on, adjacent to, or associated with the State Highway System, must be located on a minimum of 75% of ADOT right-of-way, and must have the signature and support of the appropriate ADOT District Engineer. State Projects shall not exceed \$1,000,000 in total project cost (including the State match) unless another source for the additional funding is available to cover the overage. The source of this additional funding shall be identified in the application submitted for the State project.

**NON-INFRASTRUCTURE PROJECTS (No ground disturbing activities):** Address only parts A.2 (Workplan), C.4 (Itemized Costs), D (ADOT Review Fee), E (Total Project Cost), and F (Funding Breakdown). ADOT will issue the environmental clearance memo base on the final project description defined in the sponsor's detailed Workplan.

**Enter values into GREEN CELLS.**

The program will automatically calculate the Totals and Federal Share at 94.3%, but manual overriding entries may be necessary where noted.

ITEM DESCRIPTION	UNIT	QUAN.	UNIT PRICE	TOTAL	FEDERAL TE FUNDS @ 94.3%	SPONSOR MATCHING FUNDS @ 5.7%
<b>A. SCOPING - Stage 1 (15% Conceptual Design)</b> All projects must include these costs regardless if the application is for a State or Local project. (Non-infrastructure projects: Only #2 applies).						
1. SITE TOPOGRAPHIC SURVEY (2%-5% of constr. cost) <i>(Enter \$0 in Unit Price column if none required)</i>	LS	1	\$20,000.00	\$20,000.00	\$18,860.00	\$1,140.00
2. PROJECT ASSESSMENT REPORT (infrastructure projects) or DETAILED WORKPLAN INCLUDING SCHEDULE AND COSTS (non-infrastructure projects) (About 5% of construction or implementation cost)	LS	1	\$20,615.00	\$20,615.00	\$19,439.95	\$1,175.06
3. ENVIRONMENTAL DETERMINATION for infrastructure projects, including technical supporting documents. (Anticipate \$20,000 to \$40,000)	LS	1	\$30,000.00	\$30,000.00	\$28,290.00	\$1,710.00
4. HAZARDOUS MATERIALS ASSESSMENT including heavy metals & asbestos <i>(If an assessment is necessary, about \$1,500. Enter \$0 in Unit Price column if none required)</i>	LS	1	\$1,500.00	\$1,500.00	\$1,414.50	\$85.50
<b>SUBTOTAL – PROJECT SCOPING COSTS</b>						
Federal funds for scoping are calculated at 94.3% of the total scoping cost. If requesting less than 94.3% federal funds, enter new total or 0 in the Federal column.				\$ 72,115	\$68,004	\$4,111

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<p align="center"><b>B. DESIGN - Stages II, III, IV</b> (30%, 60%, 95%-100% Preliminary Design) (Pre-engineering)                      Not applicable to non-infrastructure projects. All infrastructure projects must include these costs regardless if the application is for a State or Local project. If federal funds are used for design, the project shall not advance beyond Stage II (30%) until it has received environmental clearance.</p>						
1. PS&E's - Plans, Special Provisions, Cost Estimates & Schedules. Anticipate 18%-20% of constr. costs.	LS	1	\$134,500.00	\$134,500.00	\$126,833.50	\$7,666.50
2. GEOTECHNICAL INVESTIGATION (If a report is necessary, about 5% of construction cost) Includes testing, Geotech Report, Materials & Pavement Design Report) <b>Enter \$0 in Unit Price column if none required.</b>	LS	1	\$11,300.00	\$11,300.00	\$10,655.90	\$644.10
3. DRAINAGE REPORT (If a report is necessary, about 5% of construction cost) <b>Enter \$0 in Unit Price column if none required)</b>	LS	1	\$22,000.00	\$22,000.00	\$20,746.00	\$1,254.00
4. STORM WATER POLLUTION PREVENTION PLAN (Required if there is over 1 acre of total disturbance, about 1% of construction cost) <b>Enter \$0 in Unit Price column if none required.</b>	LS	1	\$10,000.00	\$10,000.00	\$9,430.00	\$570.00
<b>SUBTOTAL – PROJECT DESIGN COSTS</b> Federal Funds for design are calculated at 94.3% of the total design cost. If requesting less than 94.3% Federal Funds for design, enter new total or 0 in the Federal column.				\$ 177,800	\$167,665	\$10,135
<p><b>C. CONSTRUCTION OR IMPLEMENTATION - Stage V</b>  <b>For non-infrastructure projects (no ground disturbing activities), address only parts 4, D and F.</b></p>						
<b>1. SITE ACQUISITION &amp; HARDSCAPE CONSTRUCTION</b>						
RIGHT-OF-WAY ACQUISITION (If necessary)	LS	1	\$0.00	\$0.00	\$0.00	\$0.00
INSTALLATION OF STORMWATER POLLUTION PREVENTION MEASURES (If over 1 acre of disturbance, about 5% of constr. costs) <b>Enter \$0 in Unit Price column if area of disturbance is less than one acre.</b>	LS	1	\$0.00	\$0.00	\$0.00	\$0.00
SITE PREPARATION (Clearing and grubbing, plant salvage)	LS	1	\$62,720.00	\$62,720.00	\$59,144.96	\$3,575.04
<b>DEMOLITION</b>						
Sawcut	LF	1,400	\$2.50	\$3,500.00	\$3,300.50	\$199.50
Remove Structures and Obstructions	LS	1	\$10,000.00	\$10,000.00	\$9,430.00	\$570.00
Remove Fencing	LF	1,429	\$3.50	\$5,001.50	\$4,716.41	\$285.09
Remove Structural Concrete		222	\$45.00	\$9,990.00	\$9,420.57	\$569.43
Remove Asphaltic Concrete Pavement	CY	156	\$45.00	\$7,020.00	\$6,619.86	\$400.14
Remove Concrete Sidewalks, Slabs		1	\$0.00	\$0.00	\$0.00	\$0.00
HAZARDOUS MATERIALS ABATEMENT (If applicable; include heavy metals & asbestos; about 5% of construction cost) <b>Enter \$0 in Unit Price column if none required.</b>	LS	0	\$0.00	\$0.00	\$0.00	\$0.00
UTILITY RELOCATION. Only the cost of utilities needing relocation as a direct result of the enhancement project are eligible for federal reimbursement. Because of the costs involved, the undergrounding of overhead utilities is not eligible. <b>Enter \$0 in Unit Price column if none required.</b>	LS	1	\$20,000.00	\$20,000.00	\$18,860.00	\$1,140.00

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RETAINING WALL (Concrete; SF of face above the footing)	SF		\$0.00	\$0.00	\$0.00	\$0.00
<b>EARTHWORK</b>						
General Excavation	CY	2,500	\$10.00	\$25,000.00	\$23,575.00	\$1,425.00
Drainage Excavation		0	\$0.00	\$0.00	\$0.00	\$0.00
Structural Excavation		0	\$0.00	\$0.00	\$0.00	\$0.00
Structural Backfill		200	\$25.00	\$5,000.00	\$4,715.00	\$285.00
Borrow (In Place)		3,333	\$15.00	\$49,995.00	\$47,145.29	\$2,849.72
CURB & GUTTER	LF	333	\$15.00	\$4,995.00	\$4,710.29	\$284.72
AGGREGATE BASE	CY	1,200	\$25.00	\$30,000.00	\$28,290.00	\$1,710.00
<b>PATHWAY OR SIDEWALK MATERIALS</b>						
Concrete	SF	37,700	\$5.50	\$207,350.00	\$195,531.05	\$11,818.95
Colored Concrete		0	\$0.00	\$0.00	\$0.00	\$0.00
Stamped Color Concrete		0	\$0.00	\$0.00	\$0.00	\$0.00
Precast Concrete Pavers		0	\$0.00	\$0.00	\$0.00	\$0.00
Asphaltic Concrete	Ton	64	\$90.00	\$5,760.00	\$5,431.68	\$328.32
Polymer or Resin Stabilized Surface	SF	0	\$0.00	\$0.00	\$0.00	\$0.00
<b>CROSSWALK ENHANCEMENT</b>						
Concrete Pavers	SF	0	\$0.00	\$0.00	\$0.00	\$0.00
Stamped Asphalt		0	\$0.00	\$0.00	\$0.00	\$0.00
Stamped Concrete		0	\$0.00	\$0.00	\$0.00	\$0.00
Concrete		0	\$0.00	\$0.00	\$0.00	\$0.00
Integral Color Concrete		0	\$0.00	\$0.00	\$0.00	\$0.00
PEDESTRIAN ADA RAMP	SF	5,650	\$6.00	\$33,900.00	\$31,967.70	\$1,932.30
CULVERT EXTENSIONS	LF	250	\$40.00	\$10,000.00	\$9,430.00	\$570.00
PEDESTRIAN LIGHTING (Includes conduit and trenching) Street lighting is not eligible for federal reimbursement.	Each	0	\$0.00	\$0.00	\$0.00	\$0.00
<b>HANDRAIL</b>						
Standard	LF	0	\$0.00	\$0.00	\$0.00	\$0.00
Decorative		0	\$0.00	\$0.00	\$0.00	\$0.00
<b>SUBTOTAL - SITE ACQUISITION &amp; HARDSCAPE CONSTRUCTION</b>				\$ 490,232	\$462,288	\$27,943
<b>2. LANDSCAPING &amp; IRRIGATION ITEMS</b>						
TREES (Above 15 gallon in size as required per Local code or special design requirements)	Each	0	\$0.00	\$0.00	\$0.00	\$0.00
TREES (15 GALLON SIZE)	Each	0	\$0.00	\$0.00	\$0.00	\$0.00
TREES (5 GALLON SIZE)	Each	0	\$0.00	\$0.00	\$0.00	\$0.00
SHRUBS (5 GALLON SIZE)	Each	0	\$0.00	\$0.00	\$0.00	\$0.00
SHRUBS (1 GALLON SIZE)	Each	0	\$0.00	\$0.00	\$0.00	\$0.00
CACTUS (5 GALLON SIZE)	Each	0	\$0.00	\$0.00	\$0.00	\$0.00
<b>MULCH</b>						
Decomposed Granite	CY	200	\$50.00	\$10,000.00	\$9,430.00	\$570.00
Organic		0	\$0.00	\$0.00	\$0.00	\$0.00
TOPSOIL	CY	635	\$35.00	\$22,225.00	\$20,958.18	\$1,266.83
SEEDING	Acre	2	\$4,356.00	\$10,018.80	\$9,447.73	\$571.07
TURF SOD	SY	0	\$0.00	\$0.00	\$0.00	\$0.00
BOULDERS	Each	0	\$0.00	\$0.00	\$0.00	\$0.00
<b>IRRIGATION SYSTEM</b>						
Drip	SF	0	\$0.00	\$0.00	\$0.00	\$0.00
Turf		0	\$0.00	\$0.00	\$0.00	\$0.00
<b>SLEEVING FOR IRRIGATION SYSTEM</b>						
Directional Bore	LF	0	\$0.00	\$0.00	\$0.00	\$0.00
Cut and Patch		0	\$0.00	\$0.00	\$0.00	\$0.00
LANDSCAPE HEADER CURB	LF	0	\$0.00	\$0.00	\$0.00	\$0.00
LANDSCAPE ESTABLISHMENT (Typically about 4.5% of the cost of landscaping)	LS	0	\$0.00	\$0.00	\$0.00	\$0.00
<b>SUBTOTAL - LANDSCAPING &amp; IRRIGATION ITEMS</b>				\$ 42,244	\$39,836	\$2,408

ITEM DESCRIPTION	UNIT	QUAN.	UNIT PRICE	TOTAL	FEDERAL TE FUNDS @ 94.3%	SPONSOR MATCHING FUNDS @ 5.7%
<b>3. SITE FURNISHINGS</b>						
BENCHES	Each	2	\$800.00	\$1,600.00	\$1,508.80	\$91.20
SEATWALLS	LF	0	\$0.00	\$0.00	\$0.00	\$0.00
BIKE RACKS	Each	0	\$0.00	\$0.00	\$0.00	\$0.00
TRASH RECEPTACLES	Each	2	\$200.00	\$400.00	\$377.20	\$22.80
DRINKING FOUNTAINS	Each	0	\$0.00	\$0.00	\$0.00	\$0.00
SIGNAGE (Standard Traffic Control)	Each	0	\$0.00	\$0.00	\$0.00	\$0.00
TREE GRATES	Each	0	\$0.00	\$0.00	\$0.00	\$0.00
<b>SUBTOTAL – SITE FURNISHINGS</b>				\$ 2,000	\$1,886	\$114
<b>4. OTHER CONSTRUCTION ITEMS. ALSO, ITEMIZED LINE ITEMS FOR NON-INFRASTRUCTURE PROJECTS.</b> (Insert additional rows if necessary)						
		0	\$0.00	\$0.00	\$0.00	\$0.00
		0	\$0.00	\$0.00	\$0.00	\$0.00
		0	\$0.00	\$0.00	\$0.00	\$0.00
		0	\$0.00	\$0.00	\$0.00	\$0.00
		0	\$0.00	\$0.00	\$0.00	\$0.00
		0	\$0.00	\$0.00	\$0.00	\$0.00
		0	\$0.00	\$0.00	\$0.00	\$0.00
		0	\$0.00	\$0.00	\$0.00	\$0.00
<b>SUBTOTAL - OTHER CONSTRUCTION LINE ITEMS</b>				\$ -	\$0	\$0
<b>5. MOBILIZATION AND ADMINISTRATION COSTS</b>						
CONTRACTOR MOBILIZATION (Typically about 8% of construction cost)	LS	1	\$43,050.00	\$43,050.00	\$40,596.15	\$2,453.85
TRAFFIC CONTROL (0-8% of construction cost)	LS	1	\$43,050.00	\$43,050.00	\$40,596.15	\$2,453.85
CONSTRUCTION SURVEY & LAYOUT (Typically about 1% of constr. cost)	LS	1	\$5,380.00	\$5,380.00	\$5,073.34	\$306.66
CONSTRUCTION CONTINGENCIES (Typically about 5% of constr. cost)	LS	1	\$26,900.00	\$26,900.00	\$25,366.70	\$1,533.30
CONSTRUCTION ADMINISTRATION (Averaging 18% of construction cost)	LS	1	\$96,865.00	\$96,865.00	\$91,343.70	\$5,521.31
<b>SUBTOTAL – MOBILIZATION &amp; ADMINISTRATION COSTS</b>				\$ 215,245	\$202,976.04	\$12,268.97
<b>TOTAL CONSTRUCTION OR IMPLEMENTATION COST (STAGE V)</b> (Enter this amount in Box A below.)				\$ 749,720	\$706,986.24	\$42,734.06
<b>D. ADOT REVIEW FEE</b> (Not applicable to State projects. Cannot be applied to the federal participation or the Local match. On Local Certification Acceptance or Self-administration projects, manually change the amount in the green cell to \$3,000. Change the amount to \$0 for State projects.)						
	LS	0	\$0.00	\$0.00	NO ENTRY	
<b>E. TOTAL PROJECT COST</b> (All subtotals + ADOT local projects review fee)				\$ 999,635	NO ENTRY	

ITEM DESCRIPTION	UNIT	QUAN.	UNIT PRICE	TOTAL	FEDERAL TE FUNDS @ 94.3%	SPONSOR MATCHING FUNDS @ 5.7%
<b>F. SUMMARY OF FEDERAL AND NON-FEDERAL FUNDS</b>						
<b>Caution: Follow the instructions in the notes provided.</b>						
<b>TOTAL CONSTRUCTION OR IMPLEMENTATION COST (STAGE V) FROM THE ESTIMATE ABOVE. ALSO ADD IN THE TOTAL COST FOR SCOPING AND DESIGN (STAGES I THRU IV) IF REQUESTING FEDERAL FUNDS FOR REIMBURSEMENT OF THOSE COSTS.</b>					<b>BOX A</b>	\$ 999,635
<b>TOTAL FEDERAL FUNDS CAPPED @ 94.3%</b> (.943 x amount shown in Box A above). <i>Note: For Local projects, the maximum amount that can be requested is \$750,000 (\$943,000 for State projects). If the amount automatically calculated by this program exceeds the maximum amount allowed for a State or Local project, manually input the maximum allowed amount of federal funds.</i>					<b>BOX B</b>	\$ 942,656
<b>TOTAL SPONSOR MATCHING FUNDS</b> (.057 x cost shown in Box A above). <i>Note: The maximum amount that should be shown on this line is \$45,334 for Local projects (\$57,000 for State projects). If the amount automatically calculated by this program exceeds the appropriate amount for a State or Local project, manually input the appropriate amount.</i>					<b>BOX C</b>	\$ 56,979
<b>TOTAL ADDITIONAL FUNDS (OVERMATCH).</b> <i>Note: Enter the amount in Box A in excess, if any, of \$795,334 for Local projects or \$1,000,000 for State projects.</i>					<b>BOX D</b>	\$ -
<b>TOTAL NON-FEDERAL FUNDS</b> <i>(Note: This is the sum of Box C and Box D).</i>					<b>BOX E</b>	\$ 56,979



















