

ESTIMATED COSTS PER MILE
(REVISED JULY 2009)

THIS SHEET IS INTENDED TO AID PLANNERS IN OBTAINING A ROUGH ESTIMATE FOR PROJECTS IN EARLY PLANNING PHASES. THE FIGURES ARE AVERAGES FOR THE PAST 2 YEARS AND SHOULD BE ADJUSTED IF YOUR JOB IS OUTSIDE THE ORDINARY SCHEME OF WORK. CALL AMY KING AT 2525 FOR ASSISTANCE.

NOTES: CHECK THE LABEL ON THE FIGURE YOU ARE USING. SOME ARE "PER LANE MILE."
ESTIMATES ARE "CONSTRUCTION COST" ONLY; ADD 15% FOR ENGINEERING & OTHER COSTS TO ESTIMATE THE "TOTAL" COST OF A PROJECT.

NEW ROADS (TURNKEY PROJECTS ON NEW LOCATION WITH "AVERAGE" DRAINAGE WITHOUT BRIDGE QUANTITIES) PER MILE			
<u>ROAD TYPE</u>	<u>URBAN AREAS</u>	<u>RURAL-MOUNTAINS</u>	<u>RURAL-OTHER</u>
6 LANE FREEWAY	\$ 12,750,000	N/A	N/A
4 LANE FREEWAY	\$ 10,350,000	\$ 12,250,000	\$ 7,950,000
4 LANE WITH PAINTED MEDIAN	N/A	\$ 6,675,000	\$ 5,565,000
4 LANE UNDIVIDED	\$ 6,500,000	N/A	N/A
4 LANE DIVIDED	\$ 6,675,000	\$ 7,525,000	\$ 5,565,000
4 LANE ARTERIAL*	N/A	N/A	\$ 12,200,000
2 LANE ARTERIAL	\$ 3,750,000	\$ 3,500,000	\$ 3,250,000
2 LANE COLLECTOR	\$ 2,150,000	\$ 1,950,000	\$ 1,750,000

* IN A FLOODPLAIN WITH BORROW DITCHES

BRIDGES AND BOX CULVERTS (DOES NOT INCLUDE APPROACH ROADS. USE SQ. FT. OF FINAL STRUCTURE.)

NEW BRIDGE	\$ 125 PER SQ. FT. DECK AREA
WIDEN EXISTING BRIDGE	\$ 81 PER SQ. FT. DECK AREA (OLD DECK REMOVED & REPLACED)
REPLACE EXIST. DECK	\$ 74 PER SQ. FT. DECK AREA (NO NEW SUBSTRUCTURE)
REMOVAL OF BRIDGE	\$ 16 PER SQ. FT. DECK AREA
BOX CULVERT	\$ 74 PER SQ. FT. BOX TOP AREA
DETOUR BRIDGES	\$ 72 PER SQ. FT. (MORE IN SEISMIC AREAS)

<u>WIDENING EXISTING ROADWAY</u>	<u>URBAN</u>	<u>RURAL</u>
2 LANES TO 3 LANES (PASSING LANES-RURAL)	\$ 4,055,000 PER MILE	\$ 2,175,000 PER MILE
2 LANES TO 4 LANES	\$ 5,250,000 PER MILE	\$ 3,750,000 PER MILE
2 LANES TO 4 LANES DIVIDED*	N/A PER MILE	\$ 4,550,000 PER MILE
2 LANES TO 5 LANES	\$ 5,565,000 PER MILE	\$ 3,975,000 PER MILE
2 LANES TO 5 LANES**	N/A PER MILE	\$ 9,500,000 PER MILE
3 LANES TO 5 LANES	\$ 5,500,000 PER MILE	N/A
4 LANES TO 5 LANES	\$ 3,700,000 PER MILE	N/A
3R WIDENING (2 LANES)	\$ 1,175,000 PER MILE	\$ 825,000 PER MILE

* 4 LANE DIVIDED HWY. USING EXISTING LANES AS TWO OF THE LANES ** IN A FLOODPLAIN WITH BORROW DITCHES EXISTING

RECONSTRUCTION (NEW DRAINAGE, BASE, SURFACING, MINOR WIDENING)

NON-FREEWAY	\$ 1,500,000 PER LANE MILE	\$ 1,250,000 PER LANE MILE
FREEWAY (BOND ISSUE JOBS)	\$ 1,670,000 PER LANE MILE (INCLUDES NEW SUPERSTRUCTURES ON BRIDGES)	
	\$ 825,000 PER LANE MILE (RUBBLIZE & OVERLAY OR COLD MILL & OVERLAY- NO BRIDGES)	

FREEWAY PATCHING & REHABILITATION (FULL DEPTH PATCHING, MINOR DRAINAGE & BASE REPAIRS, SHOULDER REPAIR, CLEAN & FILL JOINTS, ETC.)

\$ 1,050,000 PER LANE MILE

OVERLAYS (11 - 12 FOOT LANES, AVERAGE ACHM DEPTH = 2")

	<u>PG 64-22</u>	<u>PG 70-22</u>
PERFORMANCE GRADE ACHM	\$ 98,000 PER LANE MILE	\$ 107,000 PER LANE MILE
	<u>SINGLE</u>	<u>DOUBLE</u>
ASPHALT SURFACE TREATMENT	\$ 16,000 PER LANE MILE	\$ 19,000 PER LANE MILE

PHASE WORK BREAKOUTS (USE WHEN PROJECTS WILL BE DONE IN PHASES OR PARTS OF A PROJECT ARE COMPLETE AND ADDITIONAL WORK IS BEING PROGRAMMED: PAVE GRAVEL ROAD, PLACE BASE & SURFACING, ETC.)

GRADING AND DRAINAGE (NO STRUCTURES, BASE OR SURFACING - NEW LOCATIONS)

	<u>MOUNTAINOUS AREAS</u>	<u>OTHER AREAS</u>
FREEWAY & PRIMARY	\$ 1,670,000 PER LANE MILE	\$ 1,220,000 PER LANE MILE
OTHER ROADS	\$ 1,115,000 PER LANE MILE	\$ 955,000 PER LANE MILE

SURFACING (INCLUDES BASE & SHOULDERS ON NEW LOCATION. INCLUDES BASE PREPARATION, DRAINAGE & MINOR WIDENING ON EXISTING GRAVEL ROADS)

	<u>PG 64-22</u>	<u>PG 70-22 & PG 76-22</u>
FREEWAY & PRIMARY	\$ 726,000 PER LANE MILE	\$ 1,035,000 PER LANE MILE
	<u>PG 64-22</u>	<u>DOUBLE A.S.T.</u>
OTHER ROADS	\$ 668,000 PER LANE MILE	\$ 530,000 PER LANE MILE

<u>INTERCHANGES</u> (TRUMPET OR DIAMOND LAYOUT)	<u>SIGNALS</u>
ADDED TO EXISTING	\$ 11,130,000 EACH
NEW ROUTE	\$ 6,890,000 EACH
	\$ 130,000 PER INTERSECTION
	\$ 557,000 WITH INTERSECTION IMPROVEMENTS

CABLE BARRIER PROJECTS - \$238,500 PER MILE (\$50) PER FT.
