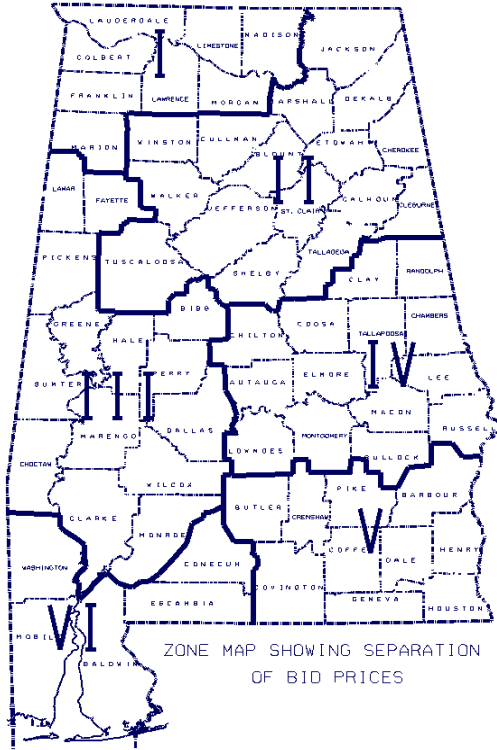


**TO BE USED FOR PRELIMINARY COST ESTIMATES ONLY
CHART UPDATED NOVEMBER 2010 (MAJOR UPDATE 2007)**

ZONE	GRADE AND DRAIN PER MILE COST X \$1000								BASE AND PAVE PER MILE COST X \$1000			
	2 LANE NEW CONSTRUCTION				4 LANE NEW CONSTRUCTION				2 LANE NEW CONSTRUCTION		4 LANE NEW CONSTRUCTION	
	F	R	H	M	F	R	H	M				
I	803	1177	1648	2077	1420	2104	2923	3975	1507			2731
II	720	983	1385	1690	1186	1720	2555	3574	1352			2418
III	609	762	1177	1385	919	1420	2171	2939	1220			2130
IV	651	1011	1454		1169	1754	2321		1412			2551
V	540	845	1274		969	1536	2037		1232			2286
VI	443	720	1094		785	1319	1837		1077			1684

**F - FLAT TERRAIN
R - ROLLING TERRAIN
H - HILLY TERRAIN
M - MOUNTAINOUS TERRAIN**



ZONE MAP SHOWING SEPARATION
OF BID PRICES

SIGNING	
INTERCHANGE (URBAN INTERSTATE)	\$60,000 EACH
INTERCHANGE (RURAL INTERSTATE)	\$70,000 EACH
INTERSECTION (4 LANE X 4 LANE)	\$40,000 EACH
INTERSECTION (4 LANE X 2 LANE)	\$30,000 EACH
INTERSECTION (2 LANE X 2 LANE)	\$20,000 EACH

TRAFFIC HANDLING	
5 LANE (WIDEN TO ONE SIDE)	\$30,000 MI
5 LANE (WIDEN SYMMETRICAL)	\$60,000 MI
4 LANE (2 LANES EXISTING)	\$12,500 MI
EXISTING INTERSECTION	\$3,500 EACH
CROSSOVERS	\$12,000 EACH
NEW LOCATION INTERSECTION	\$2,500 EACH
ADVANCE WARNING SIGNS	\$10,000 EACH

UTILITY COST*	
2 LANE RURAL	\$540,000 MILE
2 LANE URBAN	\$1,700,000 MILE
4 LANE RURAL	\$850,000 MILE
4 LANE URBAN	\$3,125,000 MILE

RIGHT OF WAY COST**	
2 LANE RURAL	\$550,000 MILE
2 LANE URBAN	\$1,500,000 MILE
4 LANE RURAL	\$1,400,000 MILE
4 LANE URBAN	\$2,900,000 MILE

* UTILITY COST ESTIMATES FROM UTILITY SECTION
ROW COSTS ESTIMATES FROM THE ROW BUREAU IF TIME IS A FACTOR,
JUST USE THE ABOVE DATA.

ADDITIONAL OVERHEAD (add to subtotal for total construction cost)	
1.3% ENGINEERING CONTROLS	
9.7% MOBILIZATION	
15% E & I	
PRELIMINARY ENGINEERING IS 15% OF TOTAL CONSTRUCTION COST	
BREAKDOWN FOR P.E. 3% FOR CORRIDOR STUDY	
5% FOR SURVEY	
5% FOR GRADE AND DRAIN PLANS	
2% FOR BASE AND PAVE PLANS	
INDIRECT COST	13.63%

URBAN SECTION	
BASE & SURFACE (4" SURFACE)	\$96 YD ²
GRADE AND DRAIN	\$38 YD ²
CURB AND GUTTER	\$15 L.F.
SIDEWALK	\$35 YD ²
STORM DRAIN	\$60 L.F.
INLETS	\$3,750 EA
BASE (ONLY)	\$15 YD ²
1" SURFACE (OVERLAY)	\$15 YD ²
8" CONCRETE PAVEMENT	\$50 YD ²
BORROW (IN-PLACE)	\$20 YD ³
SIGNALIZED INTERSECTION	\$150,000 EA
BARRIER RAIL	\$100 LF
TEMPORARY BARRIER RAIL	\$65 LF
RETAINING WALL	\$40 FT ²

**G&D 2' BACK OF CURB OR BACK EDGE OF SIDEWALK
B&P 1.5' BACK OF CURB**

Factors			
	GD	BP	
3-Lane**	1.2	1.4	
5-Lane*	0.9	1.1	
6-Lane*	1.3	1.5	
7-Lane*	1.1	1.8	
8-Lane*	1.6	1.9	
2-Lane to 3-Lane**	0.85	0.75	
2-Lane to 5-Lane**	1.1	1.3	
2-Lane to 7-Lane**	1.4	1.7	
16' Ramp**	0.85	0.75	
Add 12' Lane**	0.85	0.75	

RAILROADS	
SIGNALS	\$200,000 EA
CROSSING SURFACE	\$2,000 T.F.
RELOCATE TRACK	\$300 T.F.
SWITCHES	\$1,500 EA
R.R. BRIDGE OVER ROADWAY	\$5,000 L.F.

BRIDGES	
SMALL	\$85 FT ²
RIVER	\$125 FT ²
CULVERT	\$325 YD ³ Concrete
REMOVE OLD BRIDGE	\$10 FT ²
DETOUR (26' WIDE)	\$50 FT ²
RIP RAP	\$30 YD ²
WIDENING	\$75 FT ²

SECONDARY ROADS	
GRADE AND DRAIN	\$195,000 MI
BASE AND PAVE	\$110,000 MI
GRAVEL OVERLAY	\$8 YD ²
BASE AND PAVE OFF SITE DETOUR:	
TRAVEL WAY	\$25 YD ²
SHOULDERS	\$15 YD ²
REMOVE PAVEMENT	\$6 YD ²
REMOVE DETOUR	2% G.D.B.&P COST