

# Detailed Engineer's Cost Estimate Example

Road (CH\_) and\_\_ Road(CH\_)  
 Upgrade to 80,000 lb truck route

## Preliminary Estimate Of Cost Mainline

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
BITUMINOUS MIX COMPLETE	18500	TN	\$ 35.00	\$ 647,500.00
BITUMINOUS MATERIALS (PRIME COAT)	1100	GAL	\$ 1.65	\$ 1,815.00
AGGREGATE SHOULDERS, TYPE B	2900	TN	\$ 11.00	\$ 31,900.00
BITUMINOUS SURFACE REMOVAL (BUTT JOINT)	1100	SY	\$ 9.00	\$ 9,900.00
BITUMINOUS SURFACE REMOVAL (VARIABLE DEPTH)	4550	SY	\$ 7.50	\$ 34,125.00
EXCAVATION (SMALL QUANTITY)	250	CY	\$ 25.00	\$ 6,250.00
AGGREGATE BASE COURSE	250	CY	\$ 20.00	\$ 5,000.00
COMBINATION CURB AND GUTTER (REMOVE AND REPLACE)	40	LF	\$ 40.00	\$ 1,600.00
PIPE CULVERT 18 INCH	80	LF	\$ 150.00	\$ 12,000.00
TRAFFIC CONTROL	1	LS	\$ 5,000.00	\$ 5,000.00
QC/QA BITUMINOUS MIX COMPLETE	18500	TN	\$ 1.00	\$ 18,500.00
SHORT TERM PAVEMENT MARKING	6800	LF	\$ 1.00	\$ 6,800.00
PAINT PAVEMENT MARKING LINE 4"	110000	LF	\$ 0.20	\$ 22,000.00
<b>TOTAL</b>				<b>\$802,390.00</b>

## Preliminary Estimate Of Cost Intersection At IL RT

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
BITUMINOUS MIX COMPLETE	750	TN	\$ 35.00	\$ 26,250.00
BITUMINOUS MATERIALS (PRIME COAT)	500	GAL	\$ 1.65	\$ 825.00
AGGREGATE BASE COURSE	450	CY	\$ 20.00	\$ 9,000.00
AGGREGATE SHOULDERS TYPE B	35	TN	\$ 11.00	\$ 385.00
SHORT TERM PAVEMENT MARKING	40	LF	\$ 1.00	\$ 40.00
PAINT PAVEMENT MARKING LINE 4"	400	LF	\$ 0.20	\$ 80.00
PIPE CULVERT 24 INCH	200	LF	\$ 200.00	\$ 40,000.00
RAISED CONCRETE ISLAND	1	LS	\$ 900.00	\$ 900.00
QC/AQ BITUMINOUS MIX COMPLETE	750	TN	\$ 1.00	\$ 750.00
<b>TOTAL</b>				<b>\$ 78,230.00</b>

The department also allows for 10% contingencies and 19% for engineering to be included in the total project cost.

Construction Subtotal	\$880,620
10% Contingencies	\$88,062
19% Engineering (PE & CE)	\$167,318
Total Project Cost	\$1,136,000
<b>50%</b> for EDP portion of the project for total amount paid by the department	\$568,000