

Engineered Cost Estimate

ECE ID/Map Ref #: **ECE 1**

Licence **A18672**

CP **494**

Assoc. Block **LV3104**

ECE Project Type: Road Reactivation (L)	ECE Total Length (m) 788	IAM in Effect: 2016
ECE Description/Comments (consider pictures as supporting documentation)		Cost Base Year 2014

Road reactivation including light brushing, grading/crowning, ditching and adding culverts.

Reappraised to include required blasting and dropping grass seeding

Brushing (Accepted template with standard machines and productivities accepted by Ministry, - July 1, 2016)

Dist (km)	Features	Brushing Head on Tractor	Bobcat with Brushing Attachment	Feller Buncher	Grader Productivity (hrs/km)	Bulldozer Productivity (hrs/km)	Hoe Productivity (hrs/km)	Cost (\$)
0.8	light brushing (roadside only)	Y						\$540.00
Cost:								\$540.00

Ditching (Accepted template with standard machines and productivities accepted by Ministry, - July 1, 2016)

Dist (km)	Features					Bulldozer Productivity (hrs/km)	Hoe Productivity (hrs/km)	Cost (\$)
0.8	0-25% slope					10		\$2,081.20
Cost:								\$2,081.20

Additional Road Works - Road Widening, realignment, addition of pullouts, equipment walking between projects

Add detail if needed.

Equipment Type	Function, Comments	TOTAL HRS	EQUIP RATE (\$/HR)	TOTAL COST
Excavator - Small	work in conjunction with gravel truck to remove blasted material	9.5	\$ 161.21	\$ 1,531.50
Gravel truck	remove blasted material from area	9.5	\$ 94.40	\$ 896.80
Blasting (all found hourly rate)	Based on 2014-15 cost of drill/explosives/transport and insurance	6.0	\$ 520.00	\$ 3,120.00
Total			\$	\$ 5,548.30

CULVERTS

Culvert Diameter (mm)	NUMBER	LENGTH (m)	CULVERT COST	TOTAL COST
400	4	10	\$ 546	\$ 2,184
Total			\$	\$ 2,184

Project Total Cost	\$10,353.50
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