

From: Jonathan R. Earle
Sent: Tuesday, March 07, 2017 3:01 PM
To: Amanda L. Lessard
Cc: Ben Smith
Subject: Cost Per Linear Foot To Construct Major/Minor Private Roads
Attachments: March 2017 Cost Per Foot Private Road Construction.xlsx

Follow Up Flag: Follow up
Flag Status: Flagged

Amanda,

My estimate to construct a minor private road from scratch is approximately \$100 per linear foot..

Assumptions are:

- No pavement
- 18" D Gravel, 3" A Gravel, 18' Width
- Box cut and assumes road grade generally matches existing topography (i.e. no cuts/fills included)
- Open drainage with ditching and cross culverts every 300'
- Assumes underground power. Does not include costs for water, gas, sewer, etc.
- Does not include ledge or removal of unsuitable subgrade material

My estimate to construct a major private road from scratch is \$150 per linear foot.

Assumptions are:

- 2.5" Base Pavement, 1.5" Surface Pavement, 20' Width
- 21" D Gravel, 3" A Gravel
- Box cut and assumes road grade generally matches existing topography (i.e. no cuts/fills included)
- Open drainage with ditching and cross culverts every 300'
- Assumes underground power. Does not include costs for water, gas, sewer, etc.
- Does not include ledge or removal of unsuitable subgrade material

Jon

Jon Earle, PE
Town Engineer
Town of Windham

Office: (207) 894-5900, ext. 6124
Cell: (207) 212-1802
www.windhammaine.us

Item	Unit	Weighted Average Unit Price	Total Quantity	Total Cost
Clear, Grub, & Site Prep	AC	\$7,140.06	0.6	\$4,069.84
Common Excavation	CY	\$10.32	583.3	\$6,020.93
Base Gravel MDOT Type A	CY	\$18.58	83.3	\$1,547.65
Subbase Gravel MDOT Type D	CY	\$18.22	500.0	\$9,107.54
Loam	CY	\$17.32	123.5	\$2,138.56
Seed	UNIT	\$42.92	10.0	\$429.20
Mulch	SY	\$3.50	1,111.1	\$3,888.85
15" Stormdrain	LF	\$38.23	50.0	\$1,911.72
6" Underdrain	LF	\$1.00	1,000.0	\$1,000.00
Signage	EACH	\$230.00	1.0	\$230.00
Silt Fence	LF	\$3.64	1,000.0	\$3,636.38
Riprap	SY	\$31.95	10.0	\$319.50
Construction Entrance	EACH	\$1,372.22	1.0	\$1,372.22
Underground Electric	LF	\$15.28	500.0	\$7,642.10
Transformer Pads	EACH	\$630.95	1.0	\$630.95
Level Spreaders	LF	\$68.15	2.0	\$136.31
Trees	EACH	\$214.29	10.0	\$2,142.86
Check Dams	EACH	\$50.00	10.0	\$500.00
Total Cost To Construct 500'				\$46,724.61
Cost Per Linear Foot				\$93.45

Item	Unit	Weighted Average Unit Price	Total Quantity	Total Cost
Clear, Grub, & Site Prep	AC	\$7,140.06	0.6	\$4,069.84
Common Excavation	CY	\$10.32	864.2	\$8,919.87
Base Gravel MDOT Type A	CY	\$18.58	92.6	\$1,720.25
Subbase Gravel MDOT Type D	CY	\$18.22	648.1	\$11,805.92
Hot Mix Asphalt, 19.0mm Binder	TON	\$98.23	152.8	\$15,006.51
Hot Mix Asphalt, 12.5mm Surface	TON	\$86.24	91.7	\$7,905.24
Loam	CY	\$17.32	123.5	\$2,138.56
Seed	UNIT	\$42.92	10.0	\$429.20
Mulch	SY	\$3.50	1,111.1	\$3,888.85
15" Stormdrain	LF	\$38.23	50.0	\$1,911.72
6" Underdrain	LF	\$1.00	1,000.0	\$1,000.00
Signage	EACH	\$230.00	1.0	\$230.00
Silt Fence	LF	\$3.64	1,000.0	\$3,636.38
Riprap	SY	\$31.95	10.0	\$319.50
Construction Entrance	EACH	\$1,372.22	1.0	\$1,372.22
Underground Electric	LF	\$15.28	500.0	\$7,642.10
Transformer Pads	EACH	\$630.95	1.0	\$630.95
Level Spreaders	LF	\$68.15	2.0	\$136.31
Trees	EACH	\$214.29	10.0	\$2,142.86
Check Dams	EACH	\$50.00	10.0	\$500.00
Total Cost To Construct 500'				\$75,406.29
Cost Per Linear Foot				\$150.81