

Road Work Planning created by Ron Duffy and presented to the Town Board on March 20, 2018:

A great deal of the road surfaces in the Town of Bradford are in need of care. For simplicity sake we could classify the needs as minor, intermediate and major. By so doing and designating road sections in this way, we can begin to prioritize care and create guidelines as to the time frame for instituting remedial treatment.

The obvious problem in the actual implementation of any repair/rebuild process is our lack of funds. That said, the creation of a long term plan is a necessity since proper repair and/or rebuild projects will take more than years, rather decades. With board membership turnover, often new members have very little experience in evaluating the proper course of projects to effect a good long term result at an affordable price.

Obviously repair/rebuild of existing road structure is a significant part of our responsibility, we must not ignore maintenance. Appropriate periodic maintenance does not, from an outside view, have as much of an impact as newly laid asphalt. However, the timely periodic application of maintenance procedures is highly effective in protecting and extending the service life of the very expensive repair/rebuild projects. Chief among the maintenance procedures are crack filling, surface sealing, pothole repair and tree and brush removal.

It would be valuable for this board to develop a long range outlook to care for our road system. Perhaps we could over the course of a year create such a plan. Perhaps having an outside firm such as Doleman to help would be useful. For now I have outlined a few areas that bear consideration in the minor and intermediate classification for consideration.

MINOR REPAIR/REBUILD PROJECTS

<u>SITE</u>	<u>PROJECT</u>	<u>COST</u>
B-C Townline at Milner Road	46.5 linear feet of asphalt shoulder 2'-3' wide	\$1200
B-C Townline at 140	6'-8' culvert extension Minor ditch re-contour Increase turn radius in asphalt	\$2600
B-C Townline east of 140	Core out marked area east of new asphalt, Rebase & widen asphalt transition to existing road	\$9750
B-C Townline west of Carvers Rock Road	Replace defective culvert Create fabric lined rock basin on north side Minor ditch re-contour	\$5000
Inman Road at Larsen Road	Add rock to existing approach Create proper cross slope grade Increase turn radius and asphalt pave	\$4800

INTERMEDIATE REPAIR/REBUILD PROJECTS

<u>SITE</u>	<u>PROJECT</u>	<u>COST</u>
Scott Street in Avalon From Avalon Road south	Re-contour approach Increase turn radius Increase road rock for contour Ditch and pave	\$26,000
Creek Road at Reid Road	Core out & rebase marked section of Creek Road Repave with 4" HMA East approach widen & increase radius & pave Install culvert under Creek Road Minor ditching	\$15,000
Waite Road at Carvers Rock	Increase turn radius Pulverize area marked Replace culvert Repave roadway	\$30,000

MAINTENANCE - SURFACE SEAL
COST BASED ON \$15,000 PER MILE

SITE	<u>PROJECT</u>	<u>COST</u>
Reid Rd. from Creek to Larsen 3/8" fractured stone	1.00 mile	\$15,000
Creek Road: From Odling to Carvers Rock	1.00 mile	\$15,000
From Carvers Rock to 140	1.70 miles	\$25,500
From 140 to Rye farm	.22 mile	\$3,000
From large culvert to La Prairie	.52 mile	\$7,800
From bridge over Turtle Creek to Clowes Road	.25 mile	\$3,750
Emerald Grove Road from Creek Rd. to box culvert north of Larsen Road	1.25 miles	\$18,750
O'Riley Road: From Hofstrom to railroad tracks	.5 mile	\$7,500
From Creek to Town Hall Road	1.5 miles	\$22,500
Trescher Rd. from Town Hall to 14	1.5 miles	\$22,500
B-C Townline Rd. from 140 to Milner	1.2 miles	\$18,000
Carvers Rock from Creek to Larsen	.6 mile	\$9,000

MAINTENANCE - CRACK FILL

SITES:

Creek Road from La Prairie to Emerald Grove Road.

Creek Road from just west of 140 east to Carvers Rock Road.

O'Riley Road from Hofstrom through the curve to the railroad tracks.

O'Riley Road from Creek Road to Town Hall Road.

Trescher Road from Town Hall to 14.

Total Cost: \$15,800

MAJOR ROAD PROJECTS:

The following list shows roads in Bradford that need total resurfacing. In an ideal climate (unlimited budget) some areas need immediate attention. We don't have an ideal unlimited funds budget. Therefore we will have to prioritize areas to do and also plan on doing stop gap repairs until proper rebuilding ensues.

The cost estimates presented reflect 2018 asphalt costs and labor of installation. The processes included are full depth reclamation, Hot Mix Asphalt (HMA) paving and shouldering. The processes not included are the following:

1. Tree and brush removal.
2. Ditching
3. Metal culvert and box culvert removal and replacement
4. Paved road surface widening and turn radius increase

Costs are based on an 18 foot wide asphalt cover.

<u>Road</u>	<u>Location</u>	<u>Length</u>	<u>Cost</u>
B-C Townline	from new large culvert to new asphalt at Dunn Road west edge	.4 mile	\$58,000
	from new asphalt at Dunn Rd. east edge To stop sign at Carvers Rock Road	.9 mile	\$130,500
	from Carvers Rock Rd. going south to Carvers Rock Rd. going north	.2 mile	\$29,000
Waite Road	from 140 to new culvert on east end	1.6 miles	\$232,000
Dunn Road	from B-C Townline to Waite Road	.5 mile	\$72,500
Minkey Road	from pit entrance east to O'Riley Road	1.0 mile	\$145,000
O'Riley Road	from railroad tracks to Creek Road	.7 mile	\$101,500
Odling Road	from Creek Road to railroad tracks	.3 mile	\$43,500
	from railroad tracks to substation	.5 mile	\$72,500
Scharine Road	from Highway 14 to Johnstown Line	1.0 mile	\$145,000

Town Hall Road	from Trescher Road to County C	1.0 mile	\$145,000
	from Trescher Road to curve south from curve to Carvers Rock Road	.5 mile .9 mile	\$72,500 \$130,500
Carvers Rock Road	from Larsen Road to Town Hall Road	1.2 mile	\$174,000
	from Town Hall to Highway 14	2.0 mile	\$290,000
Creek Road	from bridge over Turtle Creek west to O'Riley Road	.3 mile	\$43,500
	from O'Riley Road west to railroad bridge	.8 mile	\$116,000
	from railroad bridge to Odling Road	.3 mile	\$43,500
	from Rye farm entrance to Reid Road	.4 mile	\$58,000
	from Reid west to new large culvert	.4 mile	\$58,000
Emerald Grove Road	from box culvert north of Larsen Rd. To Maple Lane	.35 mile	\$50,750
	from Box culvert to south end-skim	.4 mile	\$58,000
	from Box culvert north end skim to Avalon Road	.25 mile	\$36,250
	from Avalon Road to railroad bridge	.4 mile	\$58,000
	from railroad bridge to Highway 14	1.2 miles	\$174,000
	from Jones Road to town line	.9 mile	\$130,500
Cemetery Road	from Emerald Grove Road to Hwy. 14	.2 mile	\$29,000
Larsen Road	from Highway 140 to Emerald Grove Road	1.25 miles	\$181,250
Avalon Road	from Highway 14 south to curve	1.4 miles	\$203,000
	From curve to Highway 140	.35 mile	<u>\$50,750</u>

Total Major Projects \$3,132,000

Minor Repair/Rebuild Projects	\$23,350
Intermediate Repair/Rebuild Projects	\$71,000
Maintenance-Surface Seal	\$145,800
Maintenance-Crack Fill	\$15,800
Major Road Projects	<u>\$3,132,000</u>
Grand Total	\$3,256,730