



Grant County
Department of Public Works
124 Enterprise St. S.E.
Ephrata, WA 98823



Serial No. 19-012

Memo

To: Honorable Board of County Commissioners
Grant County

From: Jeff Tincher, P.E.
Director/County Road Engineer



1/22/2019

Date: January 29, 2019

Re: Prioritization of Gravel Road Upgrades

2019 MINOR UPDATE

Prioritization of Gravel Road Upgrades

January 22, 2019

Background

In 1999, Grant County embarked on a program of upgrading existing gravel roads to paved with updates in 2006 and 2011. In 2017 Phase 4 of evaluations and rankings was completed and approved by the BOCC.

2019 Minor Update

This 2019 update is an evaluation and ranking of County road 7.8-NE. This update is being completed because in 2013/2014 McConihe flats area roads were part of the project evaluations; but this gravel road segment was not on the original gravel to oil list or the evaluations that followed. With continued development along this segment of 7.8-NE Grant County Public Works deemed it necessary to do an evaluation based upon previous ranking criteria used on other evaluations. The data compiled was:

1. ADT (Average Daily Traffic) traffic Counts & ADT truck counts
2. Adjacent residences
3. Bus route ADT
4. Network completion/missing link
5. County maintenance costs
6. Dust susceptible crops
7. Accident history (2012-2017)
8. Agricultural land values (based on crop type)

Based upon the data gathered in 2019 for road 7.8-NE the existing gravel to oil list will be updated and the roads listed will given new rankings. Project cost for road 7.8-NE is included with the proposed construction year (see attached Appendix A).

Ranking factors can be attributed to the amount of residences along 7.8-NE and accident history along the road. Other contributing factors are listed above, numbers 1-8. The 2019 priority array will reflect changes based upon these characteristic values.

Recommendations

The Department of Public Works has the following recommendations:

1. Accept the addition of road 7.8-NE onto the rank-ordered list as shown in Appendix B to serve as the basis for selecting specific projects to be constructed, if sufficient funds are available.
2. Maintain the existing Cost Share Program as it provides an alternate means of funding gravel road upgrades for projects that do not rank well or not at all on the priority array.

Dated this <u>29th</u> day of <u>January</u> , 2019		
Board of County Commissioners		
Grant County, Washington		
<u>Approve</u>	<u>Disapprove</u>	<u>Abstain</u>
Dist #1 <u>[Signature]</u>	Dist #1 _____	Dist #1 _____
Dist #2 <u>[Signature]</u>	Dist #2 _____	Dist #2 _____
Dist #3 <u>[Signature]</u>	Dist #3 _____	Dist #3 _____

"To meet current and future needs, serving together with public and private entities, while fostering a respectful and successful work environment."

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APPENDIX A

2017 Gravel to Oil Priority Array
 UPDATED: 1/22/2019

Rank	Rd No	Rd Name	BMP	EMP	Length	FFC	Begin	End	Project Cost	Approx. Construction Year	Total Adjusted Score
1	46220	7.8-NE	0	1.16	8	at Lake Vista Drive	D.5-NE	\$261,000	2021	5.2673	
2	94030	12-NE	8.24	9.01	8	at M NE	East End Bridge #158	\$173,250	2021	4.485853	
3	94020	8-NE	1.18	1.98	8	end of oil E of N-NE	begin of oil	\$180,000	2022	4.42494	
4	38830	G.7-NW/ 5.6-NW/ H-NW	0	2.17	9	at 5-NW	at 7-NW	\$488,250	2021	4.356887	
5	43750	S-NE	3.52	5.53	9	End of Oil	Where 5.5-NE would be	\$452,250	2022	4.327416	
6	13200	11-SW	0	0.75	9	at Dodson Rd	at Beginning of pavement	\$168,750	2023	4.318342	
7	32260	12-NW	1	1.33	9	at U-NW	0.33 miles W of U-NE	\$74,250	2023	4.149551	
8	10270	12-SW	6.74	7.97	9	at end pvmt E of J-SW	W to K-SW	\$276,750	2024	3.976999	
9	21930	K-SE	1.5	2.01	9	0.50 m north 5-SE	at 4-SE	\$114,750	2023	3.777927	
10	22100	Baseline .5-SE	0	1.01	9	at M-SE	at N-SE	\$227,250	2024	3.426342	
11	30400	Martin Rd	0	2.1	9	at T-NW	E to R-NW	\$472,500	2025	3.411054	
12	51600	31-NE	3.98	6.99	8	at N-NE	at Q-NE	\$677,250	2026	3.394788	
13	93039	3-NW	0	0.79	9	at Adams Rd	at SR-283	\$177,750	2025	3.204388	
14	45880	18-NE	0.5	2.01	9	at W-NE	at U-NE	\$339,750	2027	3.168113	
15	46750	16-NE	7.4	9.69	9	at gate	at Stratford Rd	\$515,250	2028	3.159958	
16	46628	B.5-NE	0	0.62	9	at 20 NE	0.62 mi. NE of 20 NE	\$139,500	2027	3.1213	
									Total:	\$4,738,500	

NOTES: Average Project Cost \$225,000 per mile, Approx. \$600,000 to \$700,000 funding per year

Approximate Funding Each Year	
2021	\$922,500
2022	\$632,250
2023	\$357,750
2024	\$504,000
2025	\$650,250
2026	\$677,250
2027	\$479,250
2028	\$515,250
TOTAL: \$4,738,500	

APPENDIX B

2017 Priority Array - Sorted (2019 Minor Update)
1/22/2019

Ref #	Rd No	Rd Name	BMP	EMP	Length	FFC	Begin	End	School District	Total Adjusted Score	Rank
1	46220	7-8-NE	0	1.16	1.16	8	at Lake Vista Dr	D-5-NE	MLK	5.26	1
2	94030	12-NE	8.24	9.01	0.77	8	at M NE	East End Bridge #158	MLK	4.49	2
3	94020	8-NE	1.18	1.98	0.8	8	end of oil E of N-NE	begin of oil	MLK	4.42	3
4	38830	G.7-NW/5.6-NW/H-NW	0	2.17	2.17	9	at 5-NW	at 7-NW	EPH	4.36	4
5	43750	5-NE	3.52	5.53	2.01	9	End of Oil	Where 5.5-NE would be	MLK	4.33	5
6	13200	11-SW	0	0.75	0.75	9	at Dodson Rd	at Beginning of pavement	ROY	4.32	6
7	32260	12-NW	1	1.33	0.33	9	at U-NW	0.33 miles W of U-NE	QUI	4.15	7
8	12530	H SW	0	1.02	1.02	9	at 12 SW	at SR 26	ROY	4.15	8
9	10270	12-SW	6.74	7.97	1.23	9	at end prvmt E of J-SW	W to K-SW	ROY	3.98	9
10	21930	K-SE	1.5	2.01	0.51	9	0.50 m north 5-SE	at 4-SE	MLK	3.78	10
11	22100	Baseline .5-SE	0	1.01	1.01	9	at M-SE	at N-SE	MLK	3.43	11
12	30400	Martin Rd	0	2.1	2.1	9	at T-NW	E to R-NW	QUI	3.41	12
13	51600	31-NE	3.98	6.99	3.01	8	at N-NE	at Q-NE	WIL	3.39	13
14	93039	3-NW	0	0.79	0.79	9	at Adams Rd	at SR-283	QUI	3.20	14
15	45880	18-NE	0.5	2.01	1.51	9	at W-NE	at U-NE	ODE/WIL	3.17	15
16	46750	16-NE	7.4	9.69	2.29	9	at gate	at Stratford Rd	MLK	3.16	16
17	46628	B.5-NE	0	0.62	0.62	9	at 20 NE	0.62 mi. NE of 20 NE	SLK	3.12	17
18	20790	E-SE/15.1-SE	0	4.12	4.12	9	at D-SE	at 12-SE	ROY	3.11	18
19	50850	Dry Coulee Rd	3.91	9.79	5.88	9	end of oil vic D-NE	at Pinto Ridge Rd	SLK/C-H	3.01	19
20	36550	M.7-NW	0	2	2	9	at 8-NW	at 6-NW	QUI	2.98	20
21	46800+	N / 21 / 22-NE	0.00	4.67	6.29	9	at inter w/22-NE	at Stratford Rd at end of oil	WIL	2.94	21
22	30431	10-NW	0	1.03	1.03	9	at H-NW	E to end county road	EPH	2.93	22
23	16790	N-NW	0	0.99	0.99	9	at Baseline West	N to S Frontage Rd	QUI	2.91	23
24	30040	4-NW	0	2.02	2.02	9	at E-NW	at Dodson Rd	EPH	2.88	24

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Ref #	Rd No	Rd Name	BMP	EMP	Length	FFC	Begin	End	School District	Total Adjusted Score	Rank
25	15300	Royal Slope Rd	2.71	4.31	1.6	8	at G.5-SW	W to I-SW	ROY	2.80	25
26	32850	Q-NW/Overen Rd	3.28	4.12	0.84	8	at end of oil on Q-NW	N to X w/14-NW	QUI	2.79	26
27	11500+ 11590	10-SW / P-SW	2.05 2.07	3.06 3.07	2.01	9	at Beverly-Burke Rd at 11-SW	at P-SW at 10-SW	ROY	2.79	27
28	36950	J-NW	1.15	1.64	0.49	9	at Martin Rd	end county road	QUI	2.75	28
29	20550	B-SE	5.78	6.83	1.05	9	at 13-SE	at 12-SE	ROY	2.73	29
30	46370	Bouldercrest Rd	0	0.34	0.34	9	at Nepple Rd	begin oil vic 7.5-NE	MLK	2.73	30
31	36700	8-NW	4.02	5.03	1.01	9	at L-NW	at K-NW	QUI	2.66	31
32	40200	8-NE	0	1.09	1.09	9	at M-NE	at Beginning of pavement	MLK	2.62	32
33	10330	23-SW	0	3.16	3.16	9	at R-SW	E to O-SW	WAL	2.58	33
34	25000+ 25190	7-SE / T-SE	0.00 0.00	1.00 1.01	2.01	9	at S-SE	E to T-SW then S to SR-170	WAR	2.56	34
35	45900	19-NE	0	2.91	2.906	9	at 19-NE/Blackrock Xsect	0.98 mi E of U-NE	ODE/WIL	2.54	35
36	91010	Lower Crab Creek	3.16	5.79	2.63	8	at end of oil	W end Bridge 308	ROY	2.52	36
37	11510	11-SW/ R-SW	0	2.02	2.02	9	at Beverly-Burke Rd	at 10-SW	ROY	2.50	37
38	25690	W.2-SE	0	1.23	1.23	9	at V-SE at X-w/5-SE	E to X w/W.2-SE SE to 6-NE	WAR	2.49	38
39	30850	T-SW/ 2-SW	2.01	3.83	1.82	9	at 1-SW	end county road	QUI	2.47	39
40	16550	1.5/2-SW	0	1.17	1.17	9	at Q-SW	at Beverly-Burke Rd (R-SW)	QUI	2.41	40
41	36900	11.5/F-NW	5.25	8.06	2.81	9	0.10 mi E of H-NW	E to F-NW; N to Martin Rd	EPH	2.40	41
42	52500	29-NE	0	6.23	6.23	9	at R-NE	at X-NE (county line)	WIL	2.35	42
43	38920	6-NW	0	1.01	1.01	9	at F-NW	at G-NW	EPH	2.34	43
44	16850	L.5-NW	0	1	1	9	at Baseline West	N to S Frontage Rd	QUI	2.22	44
45	32750	M.5-NW	0	0.91	0.91	9	at 13-NW	end county road	QUI	2.20	45
46	12150+ 12280	K/14.5 / L.5-SW	1.55 1.78	2.05 3.84	2.56	9	at 13.5-SE	S to 14.5 then W to end of L.5	ROY	2.19	46
47	14050	Division-S	0	0.94	0.94	9	at 11-SW	at End County Road	ROY	2.18	47

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Ref #	Rd No	Rd Name	BMP	EMP	Length	FFC	Begin	End	School District	Total Adjusted Score	Rank
48	40730	D-NE	0	0.96	0.96	9	at Mae Valley Rd	at N Frontage Rd	MLK	2.17	48
49	22600	R-SE/11-SE	6.64	9.38	2.74	9	at end of oil S of SR-170	S to 11-SE then W to SR-17	WAR	2.16	49
50	94020	8-NE	0	0.98	0.98	9	at M-NE	at N-NE	MLK	2.05	50
51	43048	Sheep Canyon Rd	5.01	6.98	1.97	9	at Johnson Rd	at G-NW	EPH	2.05	51
52	46780	18-NE	0	2.03	2.03	9	at Stratford Rd	W to 0.51 mi. W of Br#120	EPH/WIL	2.03	52
53	36900	F-NW	8.06	8.42	0.36	9	at Martin Rd	N to irrigation canal	EPH	2.03	53
54	33700	24-NW	4.31	6.12	1.81	7	at end of oil	W to 45D turn	QUI/EPH	1.99	54
55	50100	44-NE	0	3.02	3.02	9	at R-NE	at O-NE	C-H	1.98	55
56	47150	K-NE	3.18	5.14	1.96	9	at K-NE at end oil	at Stratford Rd at 15-NE	MLK	1.92	56
57	12010	K-SW	0	1.4	1.4	9	at 11-SW	at begin new oil	ROY	1.84	57
58	32300	Baird Springs Rd	13.7	20	6.28	8	at Overen Rd	at end of oil at Bridge 306	QUI	1.84	58
59	10560	I-SW	0	1.5	1.5	9	at 24-SW	S to 25.5-SW	WAL	1.81	59
60	13600	11.2 SW	0.38	1	0.62	9	end oil	A SW	ROY	1.77	60
61	53250	J-5-NE	0	1.05	1.05	9	at SR-2	at 36-NE	C-H	1.73	61
62	53750	P-NE	7.03	12.1	5.09	9	at 31-NE	at 36-NE	WIL/C-H	1.72	62
63	39120	6-NW	0.25	1.26	1.01	9	at E-NW	end county road	EPH	1.72	63
64	30550	V-SW	1.19	2	0.81	9	at end oil S of 1-SW	S to end county road	QUI	1.63	64
65		Trinidad streets			0.205	9			QUI	1.61	65
66	20450	S-SE	0.56	1.69	1.13	9	at end oil on S-SE	at County Gravel Pit	WAR	1.59	66
67	45090	M.2 NE	0	0.25	0.25	9	at 10 NE	at End County Road	MLK	1.55	67
68	40610	C NE	0	0.9	0.9	9	Mae Valley Road	N. Frontage Road	MLK	1.51	68
69	20740	14.7 SE	0	2.01	2.01	9	at D SE	at B SE	ROY	1.48	69
70	32740	13 NW	4	5.18	1.18	9	end oil	.41 miles E of K NW	QUI	1.41	70
71	12410	I-SW	1	2.23	1.23	9	at 11-SW	at Royal Slope Rd SW	ROY	1.40	71
72	94034	Troutlodge Rd NE	0	2.1	2.1	9	at SR-17	at B.5-NE	EPH	1.37	72
73	38670	I.6-NW	0	0.28	0.28	9	at 5-NW	S 0.28 miles	EPH	1.34	73

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Ref #	Rd No	Rd Name	BMP	EMP	Length	FFC	Begin	End	School District	Total Adjusted Score	Rank
74	10320	25.5-SW	1	4.96	3.96	9	at L-SW	to SR24	WAL	1.24	74
75	20520	10.5 SE	0	1.07	1.07	9	at B SE	at C SE	ROY	1.15	75
76	91010	Lower Crab Cr.	11.6	13.1	1.5	8	at Public Fishing access	at E end begin pavement	ROY	1.09	76
77	30710	U-SW	3	3.7	0.7	9	at 1-SW	S to 53 ft S of wasteway	QUI	0.92	77
78	46750	E / 19 / D.7-NE	0.6	2.25	1.65	9	at end prvmt S of 20-NE	S 1.4 miles to last residence	EPH	0.83	78
79	21690	A-SE	1.8	2.78	0.98	9	end of oil	end county road	MLK	0.79	79
80	15000	S-SW	4.53	7.03	2.5	9	at 9-SW	S to SR-26	ROY	0.77	80
81	11450	R-SW	1	1.53	0.53	9	end oil 1 mi S of SR-26	1.01 mi. S of 13-SW/R-SW X	ROY	0.64	81
82	52250	Q-NE	8.21	13.3	5.1	9	at 31-NE	at 36-NE	WIL/C-H	0.41	82