



Yamhill County Public Works Department

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YAMHILL COUNTY BOARD OF COMMISSIONERS COVERSHEET

DATE: February 3, 2022
TO: Board of Commissioners
FROM: Mark Lago, Public Works Director
RE: Capital Improvement Projects (CIP) for 2022-23

BACKGROUND:

Capital Improvement Projects (CIP) for 2022-23 (formerly Maintenance Improvement Projects) have three sections: Overlays, Chip-Seals, and Bridges.

The County hired Capital Assets and Pavement Services (CAPS) in the summer of 2020 to evaluate, inspect, and update the pavement management system for all paved roads in the County, which is approximately 410 road miles.

The objective of this pavement management strategy is to design with a more cost-effective, "best-first" approach. The reasoning behind this philosophy is that it is better to treat roads with lower-cost, preventative maintenance treatments, such as chip and crack seals, and extend their life cycle before the road condition deteriorates to a state where it requires more costly rehabilitation and reconstruction treatments.

The County's road system has a Pavement Condition Index (PCI) of 76 out of 100, which is in the good category. The goal is to try and keep the PCI as close to 76 as possible over the next 5 years.

This pavement management system report does not include any upgrading of gravel roads to paved roads. Upgrading gravel roads requires much more attention to the sub-base, shaping/profile, and drainage concerns which require time, design and funds. Upgrading gravel roads to paved surfaces is a goal but our bridges have been neglected for some time now and require upgrading and replacement ahead of upgrading gravel roads.

Overlay projects:

There will be a one year pause on overlay projects for 2022-23. The reason for this pause is that there are several roads paved between 2015 and 2019 which are showing base failures.

These roads will need Full Depth Repair (FDR), meaning rototilling sections adding cement, compacting, and putting new asphalt on top.

The FDR roads will take the place of the overlays in this year's CIPs. (See attached for FDR roads.)

Chip-seal projects:

The chip-seal roads from 2022 and 2023 were combined. Then divided into a north and south section in order to save mobilization costs as well as time. (See attached for 2022 chip seal projects.)

Bridges:

There are 133 bridges in the County. These bridges are inspected by a contracted bridge inspector every two years, with some more closely monitored ones every year, using the American Association of State Highway and Transportation Officials (AASHTO) manual. We take the information from these reports and decide which bridges can be repaired by Public Works crews and which ones need to be contracted out for the 2022-23 budget year (see attached Bridge projects).

The CIPs for 2022-23 were presented to the Road Improvement Advisory Committee (RIAC) at their January meeting. RIAC was in support of the proposed CIPs for 2022-23.

STAFF RECOMMENDATION:

Approve the Capital Improvement Projects (CIP) for 2022-23

FISCAL IMPACT:

Approximately \$3,750,000 will come out of the Road Fund - Capital Outlay (These projects are in the proposed 2022-23 budget)

ATTACHMENTS:

2022-23 Full Depth Repair Projects
2022-23 Chip, Crack, and Fog Seal Projects
2022-23 Bridge Projects

Accepted by Yamhill County
Board of Commissioners on
2-3-2022 by Board Order
22-35

2022-2023 CIP Budget

**011-060-811.02 Capital Contract Services
Full Depth Repairs (FDR)**

CIP No.	Contract Type	Road Name	Cross Road 1	Cross Road 2	Total Length	ADT	Estimated Construction	Engineering Design	Scope of work	
1	Design /Bid/Build	Worden Hill Road	Hwy 240	Fairview	TBD	TBD	\$ 110,000.00		Driveby was completed to determine limits of failures. Additional information to be collected	
2	Design /Bid/Build	Earlwood Road	Wilsonville Road	Kramien Road	TBD	TBD	\$ 30,000.00		Driveby was completed to determine limits of failures. Additional information to be collected	
3	Design /Bid/Build	Kuykendall Road	NW Pike Road	Moose Valley Rd	TBD	TBD	\$ 100,000.00		Driveby was completed to determine limits of failures. Additional information to be collected	
4	Design /Bid/Build	Starr Quarry Road	Gravel Pit	Telegraph Road	TBD	TBD	\$ 270,000.00		Driveby was completed to determine limits of failures. Additional information to be collected	
							Base Bid Subtotals	\$ 510,000.00	\$ -	
							Total Construction and Engineering	\$ 510,000.00	\$ 510,000.00	

B.O. 22-35 Exhibit A pg. 1 of 3

Chip, Crack, and Fog Seal - 2022 CIP Projects

FC: A - Arterial > 2000, C - Collector 2000-400, R - Rural < 400

Field Verified

No.	Road Name	Begin	End	Length (ft)	Avg Width	FC	Cost/SF \$0.26
1	Thompson Ln	Begin Pavement	State Hwy 221	1,372.0	20.0	R	\$ 7,134
2	Youngman Ln	Hwy 99W	Dead End	1,336.0	22.0	R	\$ 7,642
3	Grandhaven Dr	City Limits	End of Road	1,589.0	18.0	R	\$ 7,437
4	Meadow Lake Rd	Puddy Gulch (CR #236)	Moores Valley Rd (CR #14)	13,123.0	22.5	C	\$ 76,770
5	Pike Rd	Gerrish Valley Rd	Tupper Rd	17,663.0	21.0	C	\$ 96,440
6	Adcock Rd	Pike Rd	House #20700	7,161.0	20.0	R	\$ 37,237
7	Stillers Mill Rd	Hwy 47	Bony Rd	378.0	20.0	R	\$ 1,966
8	Stillers Mill Rd	Hwy 240	Hwy 47	3,131.0	20.0	R	\$ 16,281
9	Fryer Rd	Hwy 47	Yarnhill Rd	4,024.0	22.0	R	\$ 23,017
10	Woodland Loop Rd	MP 1	Laughlin Rd	15,174.0	21.75	R	\$ 85,809
11	Phillips Rd	Hwy 47	End of Pavement	7,773.0	21.3	R	\$ 43,047
12	Spring Hill Rd	MP 0.00 Flett Rd	MP 0.69 Washington County Line	3,698.0	20.0	C	\$ 19,230
13	Calkins Ln	MP 0.00 North Valley	MP 2.69 Dopp Rd	14,240.0	19.5	R	\$ 72,197
14	Chehalem Dr	North Valley Rd	Begin New AC	3,085.0	24.5	R	\$ 19,651
15	Chehalem Dr	Cullen Rd	Foothills Dr	2,709.0	28.0	C	\$ 19,722
16	Aspen Wy	Mountain view Dr	Bell Rd	6,834.0	23.0	C	\$ 40,867
17	llafern/Vine Maple	Fox Farm Rd	Hemlock Place	3,035.0	20.0	R	\$ 15,782
18	Red Hills Rd	Begin New AC	Fairview Dr	6,167.0	16.0	C	\$ 25,655
19	Fairview Dr	Red Hills Rd	Worden Hill Rd (South)	1,795.0	20.0	C	\$ 9,334
20	Niederberger Rd	Warren Rd	US 99W	2,194.0	22.0	R	\$ 12,550
21	Hagey Rd	Dayton Ave	Dead End	2,040.0	20.0	R	\$ 10,608
22	Olive Street - w/1/4-10	W 3rd St	NW Pike Rd	2,600.0	22.0	R	\$ 14,872
				121,121.0			\$ 663,247
				22.9	Miles		

Residential Premium Sealers (Seal Coat with Sand & Polymers)

No.	Road Name	Begin	End	Length (ft)	Avg Width	FC	Cost/SF \$0.28
1	Olive Street - w/1/4-0"	W 3rd St	NW Pike Rd	2,600.0	22.0	R	\$ 16,016
2	llafern/Vine Maple	Fox Farm Rd	Hemlock Place	3,035.0	20.0	R	\$ 16,996
				5,635.0			\$ 33,012
				1.1	Miles		

Total for 24.0 Miles of Chip Seals and Premium Pavement Sealers \$ 696,259

2022-2023 CIP Budget

**011-060-811.02 Capital Contract Services
Critical Bridge Repairs**

1	Bridge replacement
2	Sub-structure repairs - Piling & Pile caps
3	Sub-structure repairs - Sheet pile for backwalls
4	Painting of Steel structures

MIP No.	Contract Type	Water Body/Carrier	BR No.	ESH Creek	Load Rating	Inspection frequency	As Built	Detour Length	ADT	Size	Construction	Engineering	Scope of work
1	Design /Bid/Build	Deer Creek, Gopther Valley Rd @ MP 8.80	11822	Yes	None	12 Months		19.0 Miles	274	20.0' W x 32' L		\$ 400,000.00	Design may end up in FY 2021-2022 or FY 2022/2023.. Construction and CM is anticipated to be in FY 2023-2024.
2	Design /Bid/Build	Turner Creek, Pike Road	11517	Yes	None	24 Months		2.0 Miles	785	23.9' W x 41' L	\$ 350,000.00		Painting appears to be too expensive. Plan to reuse existing abutments and install a new pre-fabricated steel bridge similar in thickness as existing bridge. Design will be in FY 2021-2022 and is estimated at \$35,000. Construction estimated at \$350,000 and will fall in FY 2022-2023.
3	Design Build	Small Stream, SE Stringtown Rd	11824	Yes	None	12 Months		4.0 Miles	164	22.5' W x 21' L	\$ 400,000.00	\$ 350,000.00	This short 21' x 22.5' wide bridge has failing timber piling, cross braces, and leaning back and wing walls. We anticipate replacing this bridge. Mapping indicates Spring Chinook and Winter Steelhead so bridge opening may increase to 1.5 times OHW average. Anticipate a 32' x 26' wide bridge
4	Design /Bid/Build	Panther Creek, North Hill Road	11849	Yes	20 Ton	24 Months		6.0 Miles	477	25.0' W x 95' L	\$ 225,000.00		Engineering complete. Pile cap and backwall replacements may occur in FY 2021/2022 or FY 2022/2023. Work scope is to replace 6 wood pile caps with steel caps. Aksi ti replace backwall and wing walls with steel sheet pile.
5	Bundle Backwalls	Geelan Road, Stag Hollow	11703	Yes	None	24 Months		Dead End	10	20.0' W x 21' L	\$ 60,000.00	\$ 5,000.00	1/4 to be contracted together - Sheet Pile backwall and Wing Walls Only
6	Bundle Backwalls	Muddy Creek, Muddy Valley Rd at MP 7.25	11727	Yes	None	24 Months	yes	3.6 Miles	210	28' W x 27' L	\$ 120,000.00	\$ 5,000.00	2/4 to be contracted together -Pile spices, Sheet Pile backwall and Wing Walls
7	Bundle Backwalls	S. Fork Chehlam Crk, NE Ribbon Ridge Road	11660	No	None	24 Months		4.0 Miles	862	24' W x 19' L	\$ 60,000.00	\$ 5,000.00	3/4 to be contracted together - Sheet pile for back and wing walls, steel cap
8	Bundle Backwalls	Chehlam Crk, NE Ribbon Ridge Road	11676	Yes	None	24 Months		5.0 Miles	890	24' W x 21' L	\$ 60,000.00	\$ 8,000.00	4/4 to be contracted together -Steel Pile, Sheet pile for back and wing walls, steel cap
9	Design Build	N. Yamhill River, Oak Ridge Rd at MP 6.02	11538	Yes	None	24 Months		N/A	119	21.7' W x 121.0' L	\$ 421,000.00		Entire substructure requires paint. Comply with 00594 of ODOT Spec. 9370 SF measured at \$45/sf = \$421K - two engineers estimates Otak at \$41k, Dowl at \$48K.
10	ODOT LBP	Deer Creek Park (10.27%)	11501	Yes				N/A	37		\$ 47,500.00		Dea awarded Design contract. Const. expected Fall of 2022. Const. est. at \$462,000
Base Bid Subtotals											\$ 1,743,500.00	\$ 773,000.00	
Total Construction and Engineering											\$ 2,516,500.00		

B.O. 22-35 Exhibit A pg 3 of 3