

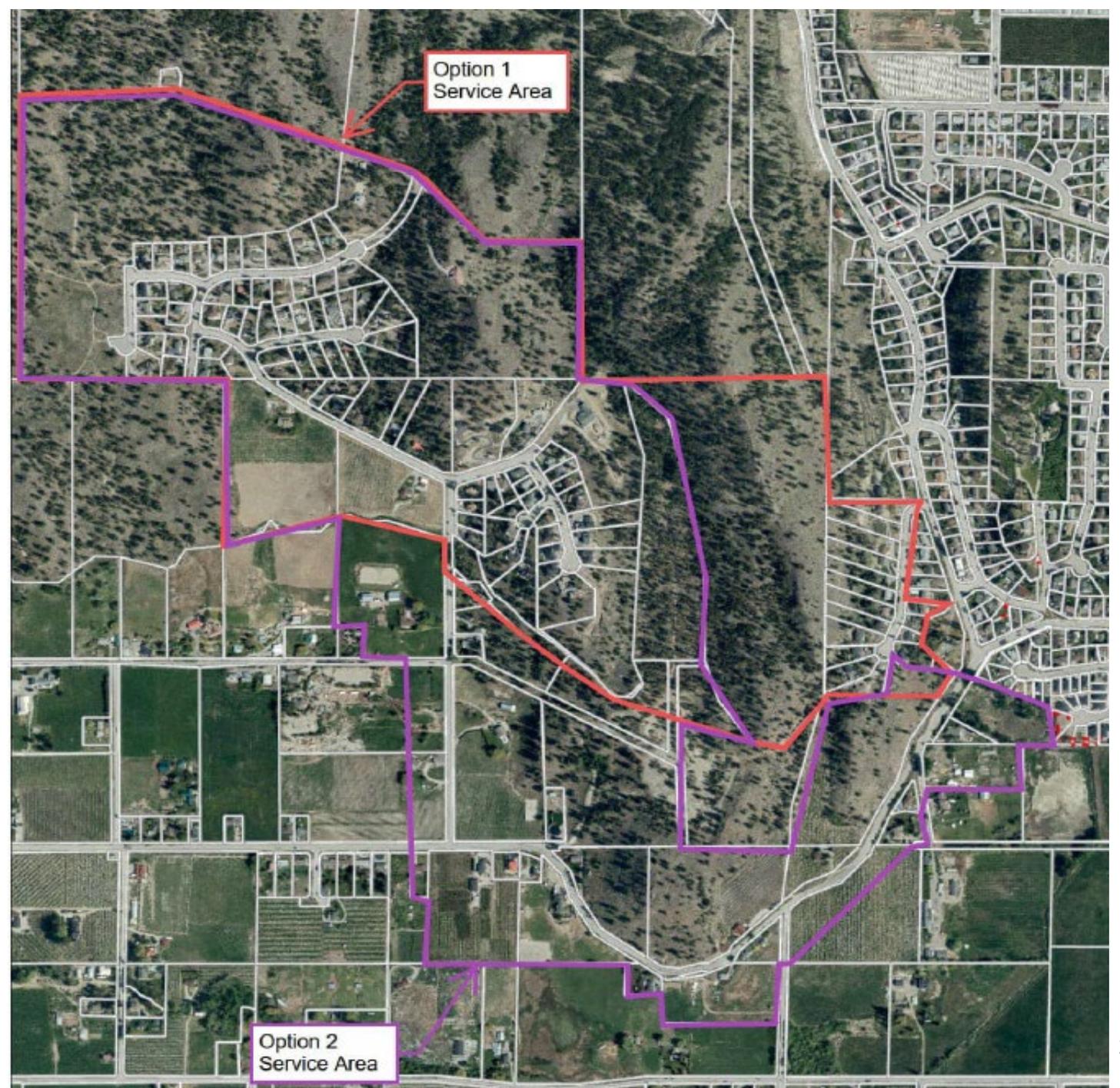
# Deer Ridge Sewer Extension Options



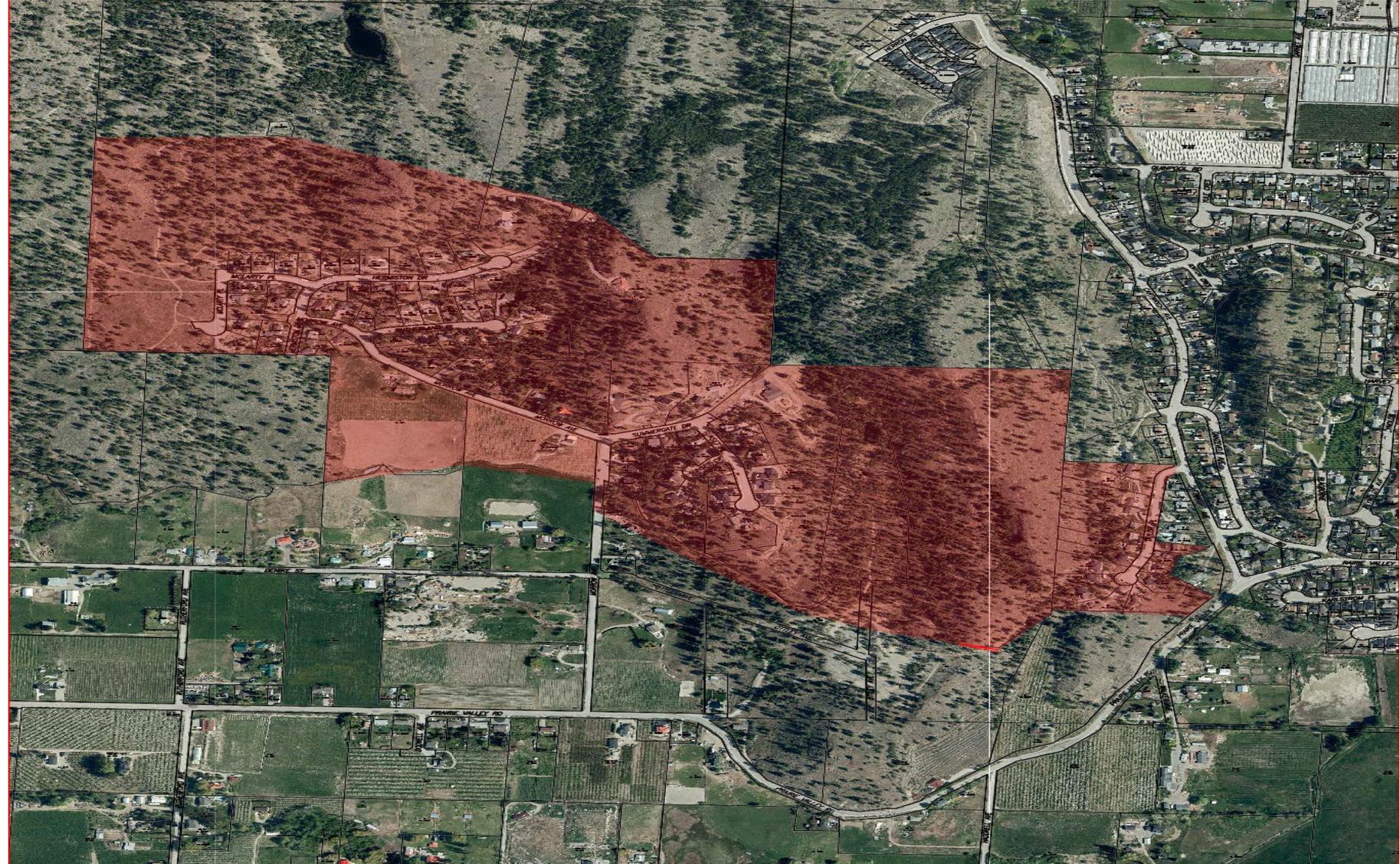
# 2019 Deer Ridge Sewer Design



## Deer Ridge Sewer Options 1 and 2



Option 1  
Gravity/Flume Trail  
to Taylor Place



# Option 1 – Gravity Route Along Flume Trail

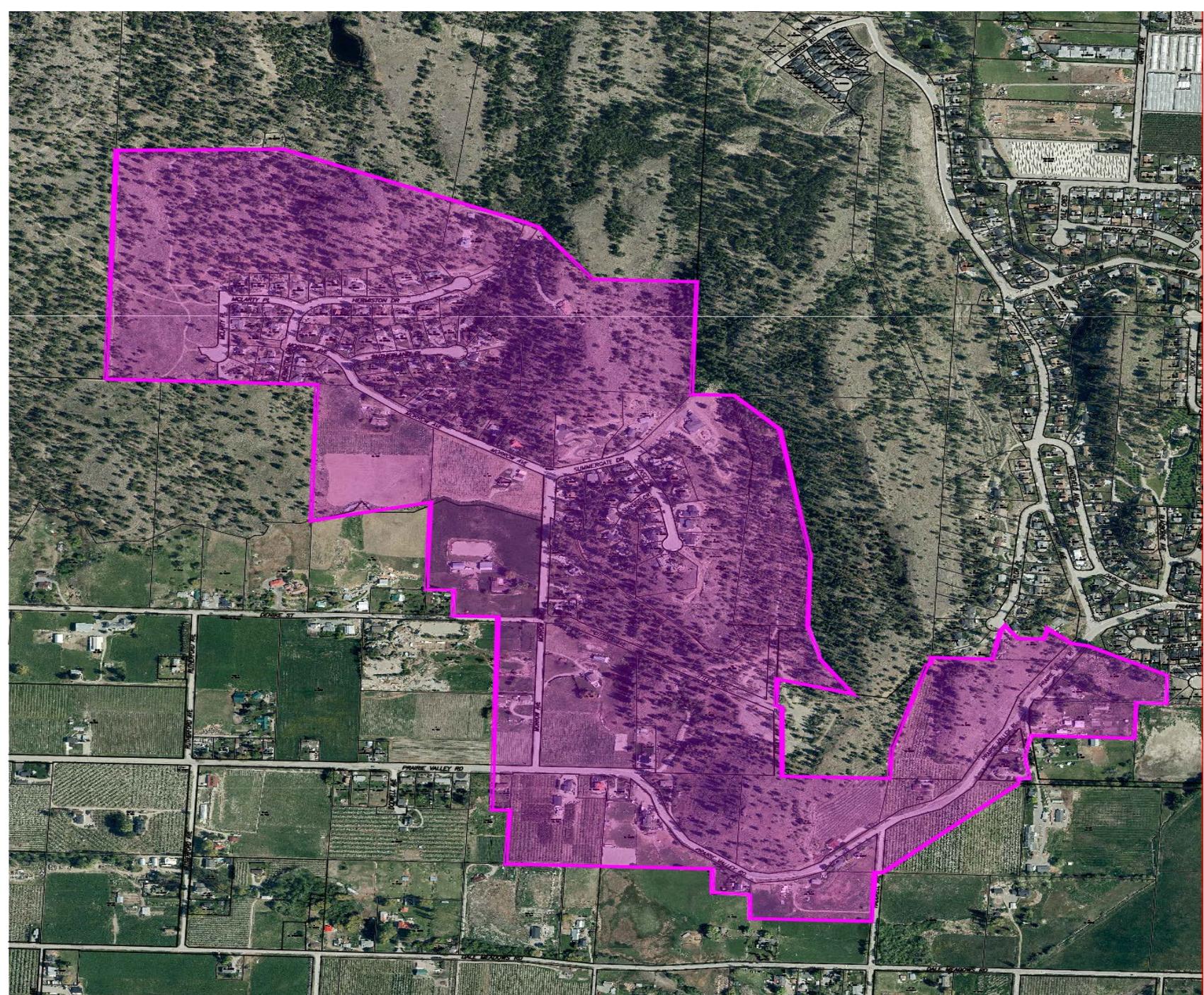
## Benefits

- No lift station required
- Less pipe than Option 2
- Lowest capital costs
- No ongoing lift station maintenance costs
- Services properties along Taylor Place

## Challenges

- One right-of-way required
- Potential bedrock along flume trail
- Developments along Prairie Valley Road will need to pump or find alternative solution

Option 2A  
Lift Station  
Prairie Valley Road



# Option 2A – Lift Station/Prairie Valley Road

## Benefits

- Potential developments on Prairie Valley Road can tie-in (~22 Lots - projected)
- Potential for future sewer extension west along Prairie Valley Road (Mostly ALR)
- Pipe remains within road right-of-way for easy maintenance
- Work could be completed in conjunction with 2024 Prairie Valley Road upgrade

## Challenges

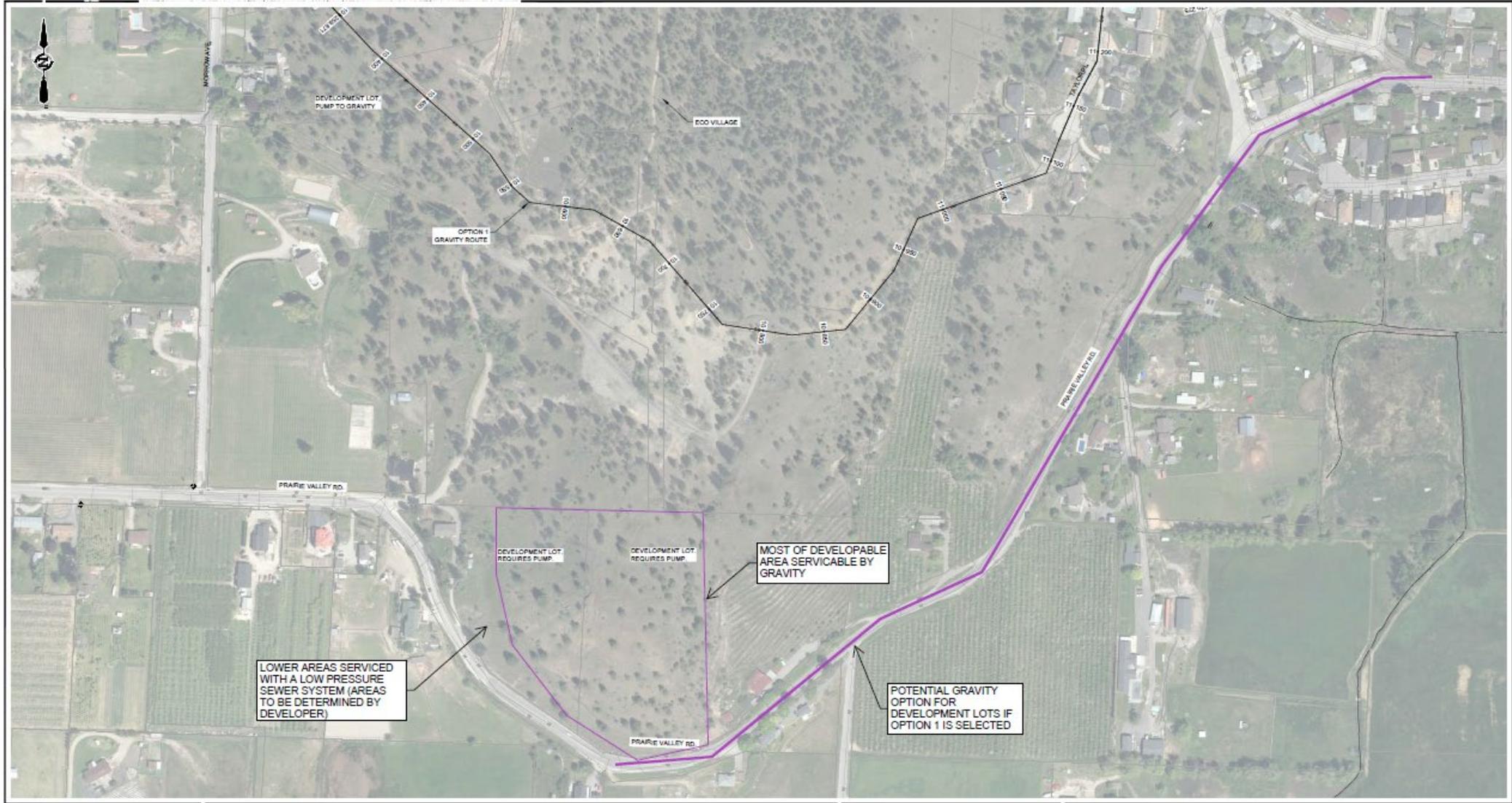
- One right-of-way required for a lift station
- Prairie Valley Road is currently quite congested with existing underground infrastructure
- Ongoing maintenance costs for a lift station are significant
- Approximately 11 properties along Taylor Place would not be serviced
- Capital costs of this route are significantly higher than Option 1



# Option Costs Per Lot

Option	Description	Total Cost	Cost per Lot			
			Existing Lots	Upper Development	Eco Village	Prairie Valley Road Developments
1	Gravity - Flume Trail to Taylor Place	\$4,200,000	\$16,000	\$16,000	\$16,000	Not Serviced
2A	Lift Station - Along Prairie Valley Road	\$6,400,000	\$21,900	\$21,900	\$21,900	\$21,900
2B	Lift Station - Funded by Lower Developments	\$6,400,000	\$16,000	\$16,000	\$16,000	\$86,200

# Alternative Servicing Option for Prairie Valley Road Developments



# Project Funding Contributions

Option	Description	Servicing Area				Total Cost
		Existing Lots	Upper Development	Eco Village	Prairie Valley Road Developments	
1	Number of Lots	101	87	76	Not Serviced	\$4,200,000
	Per Lot Cost	\$16,000	\$16,000	\$16,000	-	
	Cost per Area	\$1,610,000	\$1,390,000	\$1,220,000	-	
	<b>Propose Utilizing Growing Communities Fund</b>	-	\$1,390,000	\$1,220,000		\$2,610,000
	Local Area Service	\$1,610,000	-	-	-	\$1,610,000
2A	Number of Lots	104	87	76	22	\$6,400,000
	Per Lot Cost	\$21,900	\$21,900	\$21,900	\$21,900	
	Cost per Area	\$2,271,000	\$1,900,000	\$1,670,000	\$570,000	\$6,411,000
	<b>Propose Utilizing Growing Communities Fund</b>	-	\$1,900,000	\$1,670,000	-	\$3,570,000
	Local Area Service	\$2,271,000	-	-	\$570,000	\$2,841,000

# Staff Recommendation

***THAT Staff are directed to proceed with detailed design of Option 1 in the July 18, 2023 Deer Ridge Sewer Extension Options Report from the Director of Works & Infrastructure;***

***AND THAT Staff are directed to initiate the Council Initiated Local Area Service process for Option 1 of the Deer Ridge Sewer Extension in accordance with Community Charter S. 213.***