

RESOLUTION

-2018

2019 SIX YEAR TRANSPORTATION IMPROVEMENT PROGRAM (2019-2024)

No.	Loc.	CRP	PROJECT	TOTAL PROJECT	TOTAL PRIOR YRS	PROJECT SCHEDULE (in thousands of dollars)						TOTAL 2024+	COMMENTS		
						2019	2020	2021	2022	2023	2024				
COUNTY ROAD PROJECTS															
1	SJ	010801	Pear Point Rd to Turn Point Rd Connector	\$520	\$460	\$60								Local Road Funds Only	
2	O	021402	Orcas Rd Improvements	\$3,345	\$1,660	\$1,585	\$100							Secured \$2.4m RAP Grant (10% Match)	
3	O	020701	West Beach Rd Culvert Replacement	\$880	\$260	\$600	\$20							Secured \$338k RCO Grant (15% Match)	
4	O	020504	Upper Deer Harbor Road Improvements	\$530	\$300	\$200	\$30							Secured \$40k PFFAP, \$200 LTAC and \$160 REET II	
5	L	030601	Agate Beach County Park Road Relocation	\$1,040	\$115	\$25	\$25	\$400	\$400	\$75				Secured \$800k FLAP funds (13.5% Match)	
6	O	021502	Prune Alley Rd Improvements	\$3,905	\$315	\$500	\$1,200	\$930	\$930	\$30				Pending \$650,000 REET II annually (2019-2022)	
7	SJ	011302	Beaverton Valley Rd Culvert Replacement	\$200			\$100	\$100						Local Road Funds Only	
8	SJ	011303	Douglas Rd Improvements	\$2,625	\$15	\$10	\$250	\$2,000	\$100	\$100				Pending RAP Grant	
9	O	020801	A Street Rd Improvements	\$1,670	\$20	\$70		\$150	\$150	\$150				Pending Funding	
10	O	021701	Haven Road Pedestrian Improvements	\$110	\$40									Pending \$110k in TAP Funds	
11	SJ		Rouleau Rd Improvements	\$1,500			\$100							Pending Funding	
12	SJ		San Juan Valley Rd Improvements	\$500										Pending Funding	
13	L		Center Rd. Improvements	\$1,000										Pending Funding	
14	SJ		Lawson Rd Intersection	\$380										Pending Funding	
15	O		Obstruction Pass Rd Intersection	\$380			\$80							Pending Funding	
16	L		Dill Rd Intersection	\$380					\$80					Pending Funding	
MARINE PROJECTS															
17	O	021602	Orcas Landing Marine Facility	\$390	\$340	\$50								Secured \$46k PFFAP and \$50k LTAC	
18	L	031501	Hunter Bay Marine Facility	\$415	\$190	\$100	\$125							Local Road Funds Only	
19	O		West Sound Marine Facility	\$225		\$100	\$125							Local Road Funds Only	
GRAVEL ROAD CONVERSIONS															
20			Annual Gravel Road Conversions			\$150	\$150	\$150	\$150	\$150	\$150			2019 District 3, 2020 District 2, 2021 District 1, etc.	
PATHS AND TRAILS (RCW 47.30.050)															
21	O	021702	Deer Harbor Hamlet Trails	\$100	\$50	\$50								Secured 2x \$50k LTAC	
22	L	031701	Lopez Rd Trail	\$100		\$25	\$75								
23	O	021501	Enchanted Forest Road Trail	\$100		\$100								Secured \$30k PFFAP	
24	O		Lover's Ln Trail	\$100			\$25	\$75							
25	O		Crescent Beach Rd Trail	\$100			\$25	\$75							
MARINE NAVIGATION AND MOORAGE (RCW 36.82.070)															
26	All	041603	San Juan County Mooring Buoys			\$10	\$10	\$10	\$10	\$10	\$10			Pending Program Development	
				TOTAL FUNDS		\$3,535	\$2,310	\$2,245	\$3,895	\$745	\$460				
				LESS GRANT FUNDS		\$2,783	\$905	\$1,275	\$2,850	\$0	\$0				
				COUNTY ROAD FUNDS		\$752	\$1,405	\$970	\$1,045	\$745	\$460				

\$\$\$ Bold Figures Indicates Construction Funds

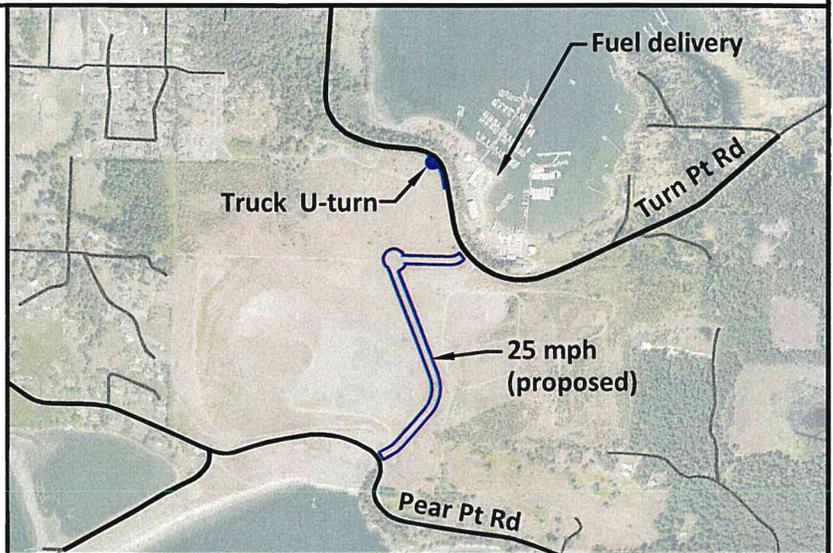
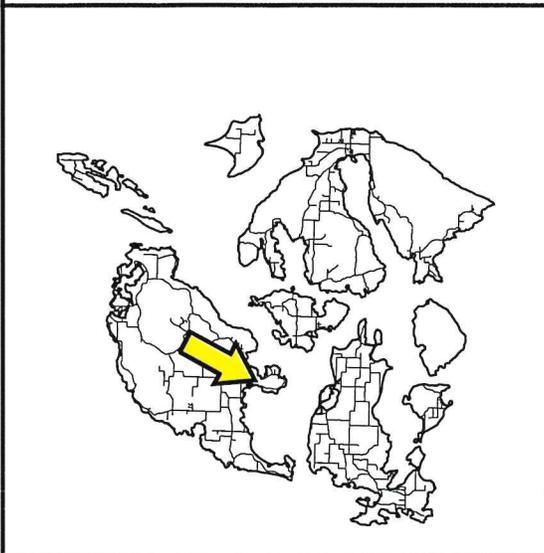


Rev. 2018-08-16

2019 Six Year Transportation Improvement Program (2019-2024)

No. 01

Pear Pt Rd to Turn Pt Rd Connector



Project Objective:

- Construct a new 30 foot road (11 foot lanes and 4 foot shoulders) connecting Pear Pt Rd to Turn Point Rd.
- Construct a new "eyebrow" u-turn on Turn Point Road.

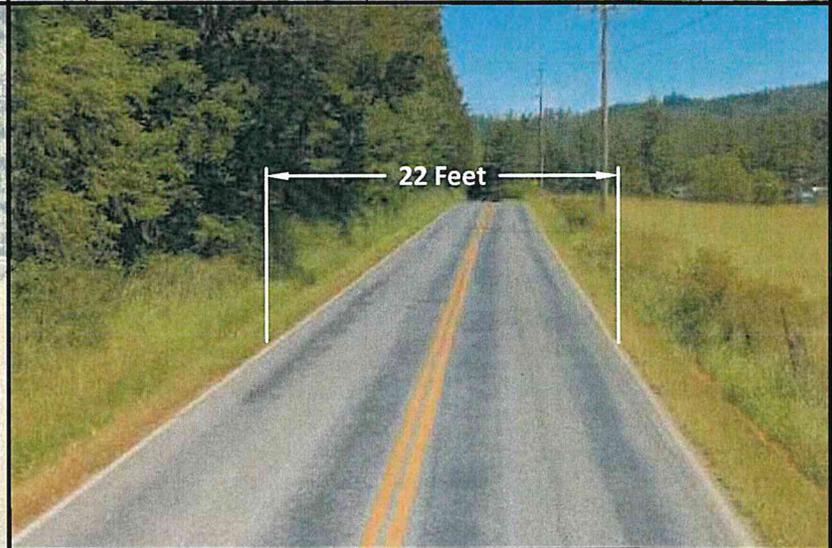
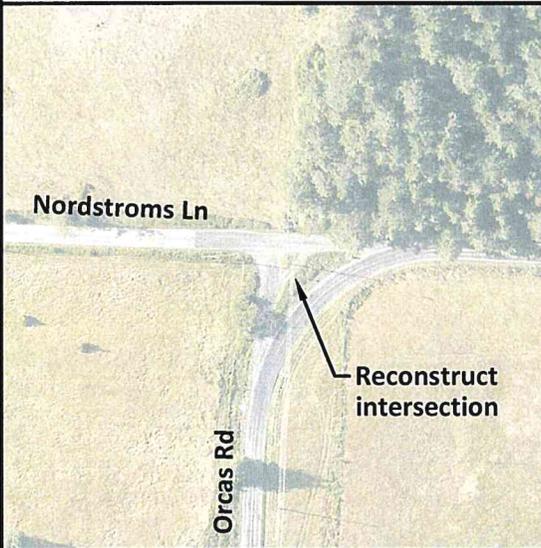
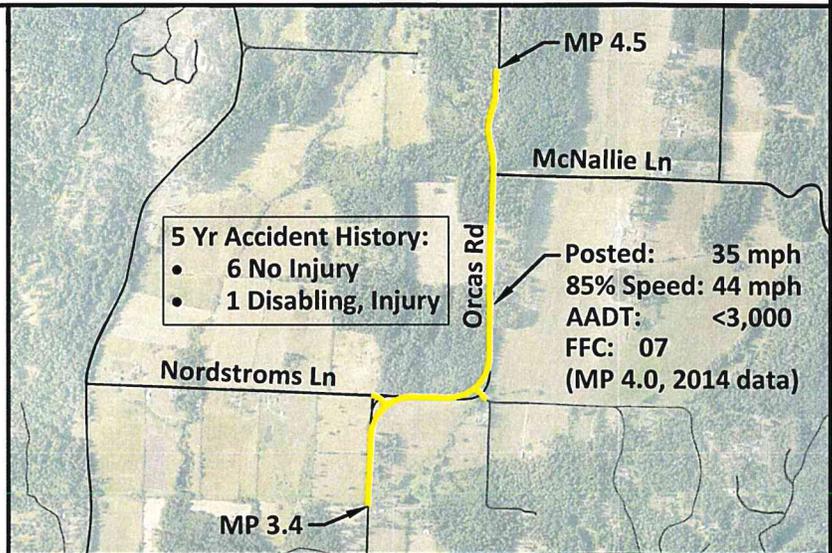
Project Need:

- Fulfill a commitment made by the County to the Town of Friday Harbor.
- Provide access to proposed affordable housing on the property annexed by the town in 2009.
- Provide for an alternate route for fuel trucks arriving by barge at Shipyard Cove Marina.



Rev. 2018-08-16

No. 02 Orcas Rd Improvements



Project Objective:

- Reconstruct the roadway to include 11 foot lanes with 4 foot shoulders.
- Reconstruct the intersections at Nordstroms Lane and Swan Road into radial T-intersections.
- Remove roadside hazards and improve sight distance.

Project Need:

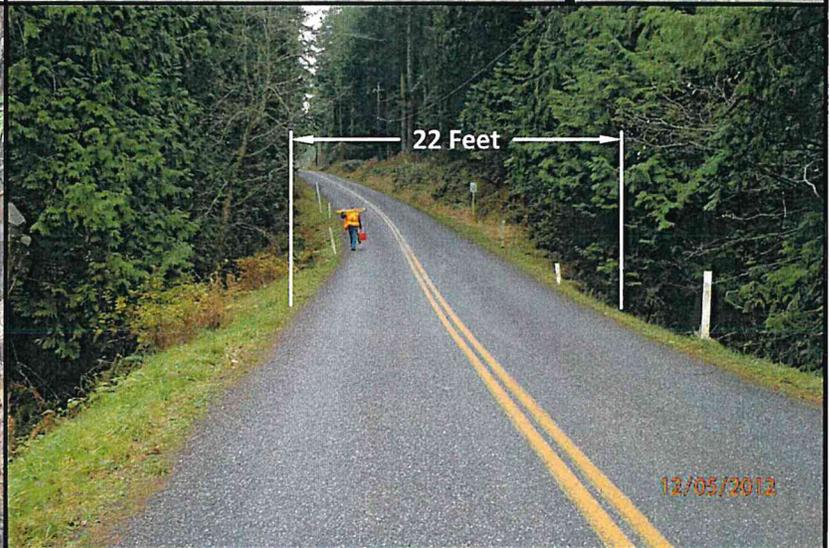
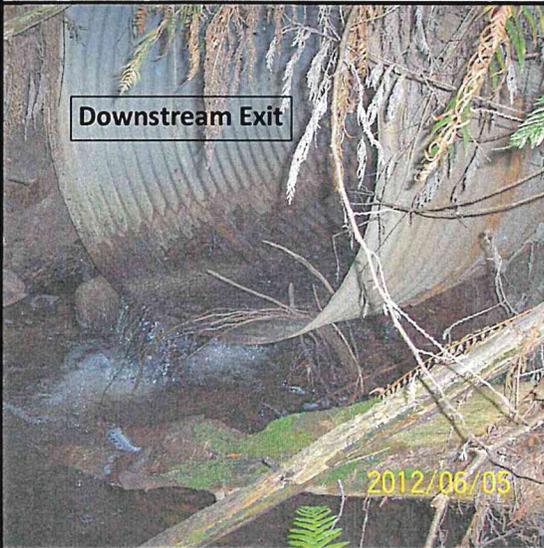
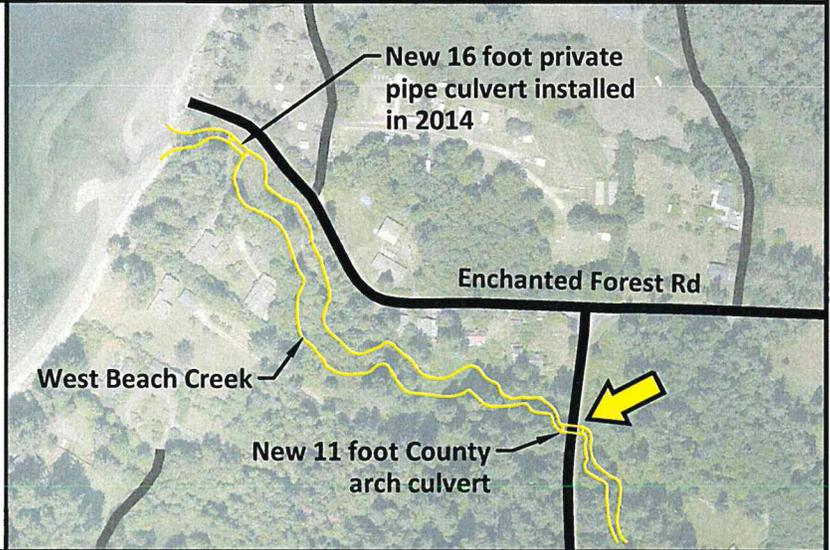
- Orcas Rd is a Scenic Byway and is the primary route from the ferry to Eastsound.
- This segment of Orcas Rd has no shoulders for non-motorized transportation uses.
- This segment of Orcas Rd has one of the highest accident frequency rates in the County.



Rev. 2018-08-16

2019 Six Year Transportation Improvement Program (2019-2024)

No. 03 West Beach Rd Culvert Replacement



Project Objective:

- Reconstruct the roadway to include 12 foot lanes with guardrails.
- Reconstruct the roadway embankment with a mechanically stabilized earth wall.
- Replace the existing 5 foot perched culvert with a fish passable 11 foot bottomless arch culvert.

Project Need:

- The embankment is slumping above the culvert, jeopardizing the stability of the road.
- The embankment is approximately 15 feet high and there are no guardrails.
- The corrugated metal culvert is deteriorating and needs to be replaced.
- The existing 5 foot culvert is a fish passage barrier.

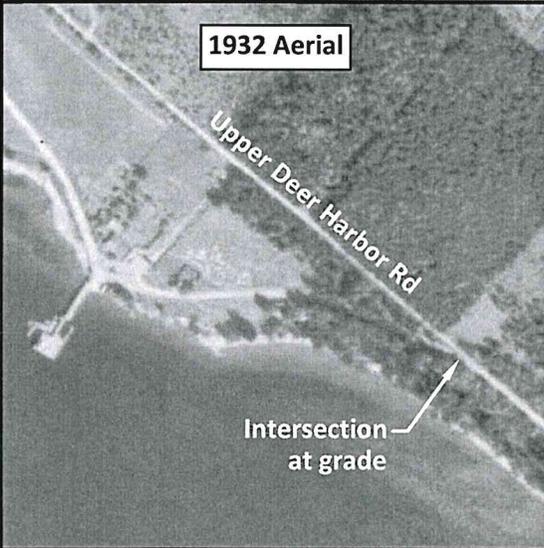
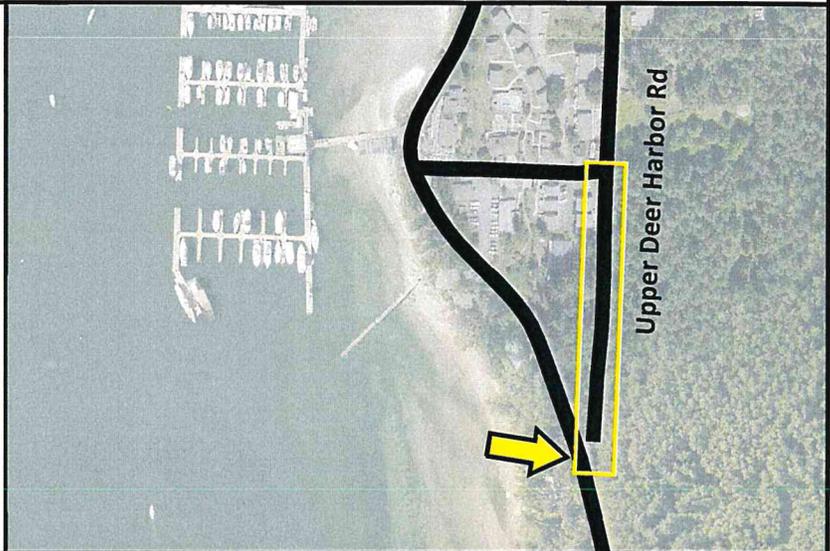


Rev. 2018-08-16

2019 Six Year Transportation Improvement Program (2019-2024)

No. 04

Upper Deer Harbor Rd Improvements



Project Objective:

- Construct improvements to Upper Deer Harbor Road.
- Increase public parking spaces from approximately 15 spaces to approximately 30 spaces.
- Extend Upper Deer Harbor Rd southerly to connect to Deer Harbor Rd.

Project Need:

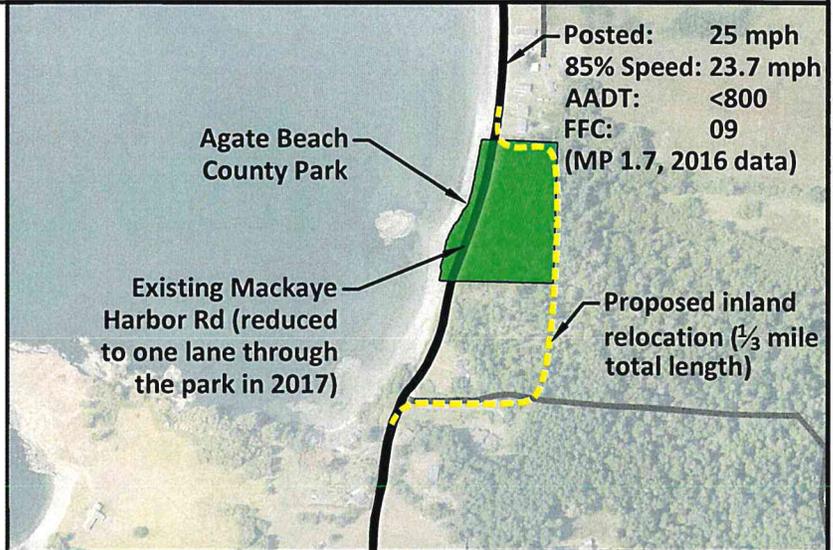
- Lack of parking in Deer Harbor for short term day-to-day economic activities.
- Lack of traffic circulation and congestion at the westerly end of Jack and Jill Place.
- Existing parking requires cars to back out approximately 500 feet.



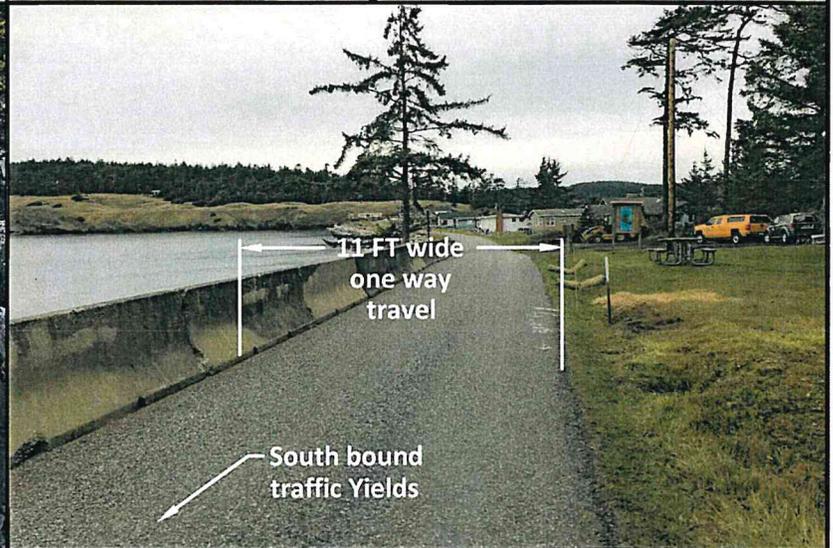
Rev. 2018-08-16

No. 05

Agate Beach County Park Road Relocation



Coastal erosion



11-FT wide one way travel

South bound traffic Yields

Project Objective:

- Relocate the County road to upland side of Agate Beach County Park.
- Restore two-way traffic.
- Create roadside parking for access to public lands.
- Create shared-use trail for bicycles and pedestrians.

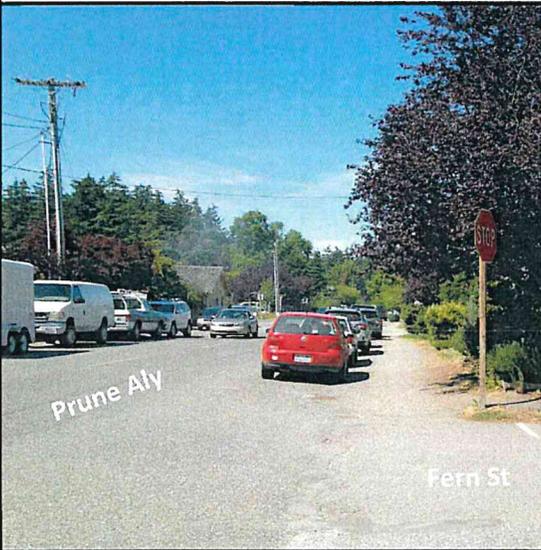
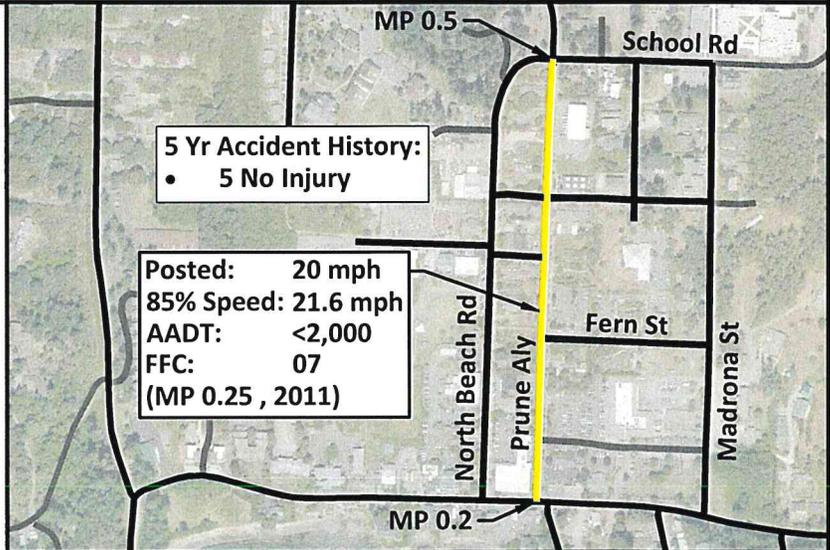
Project Need:

- Bluff erosion has advanced to within a foot of the county road and road failure is imminent.
- Current road is reduced to one lane, and area is congested with vehicles, bicycles and pedestrians.
- Lack of parking for visitors to adjacent public lands.



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No. 06 Prune Alley Road Improvements



Project Objective:

- Construct complete street improvements in accordance with current Eastsound Street Standards.
- Design considerations for parking, lighting, landscaping, pedestrian and accessibility accommodations.
- Utility relocations and storm drain improvements.

Project Need:

- Prune Alley is one of the major streets in Eastsound, serving numerous businesses, residences, parks and community common space.
- The project is primarily complicated by existing developments which have occurred without the construction of, or planning for, accompanying frontage improvements.
- The County is seeking to develop a context sensitive design working collaboratively with the Eastsound Planning Review Committee (EPRC) and property owners.

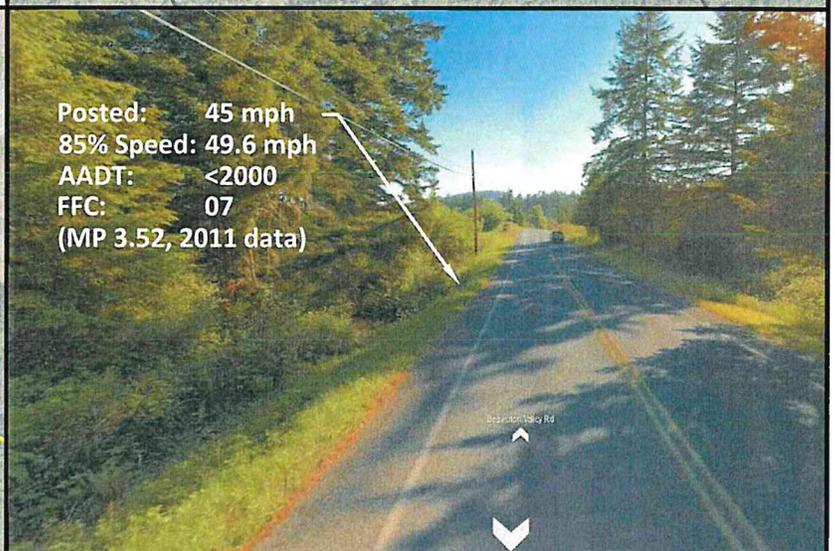
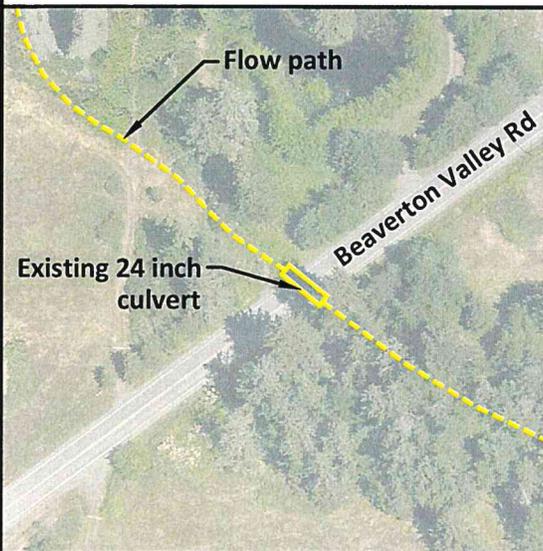
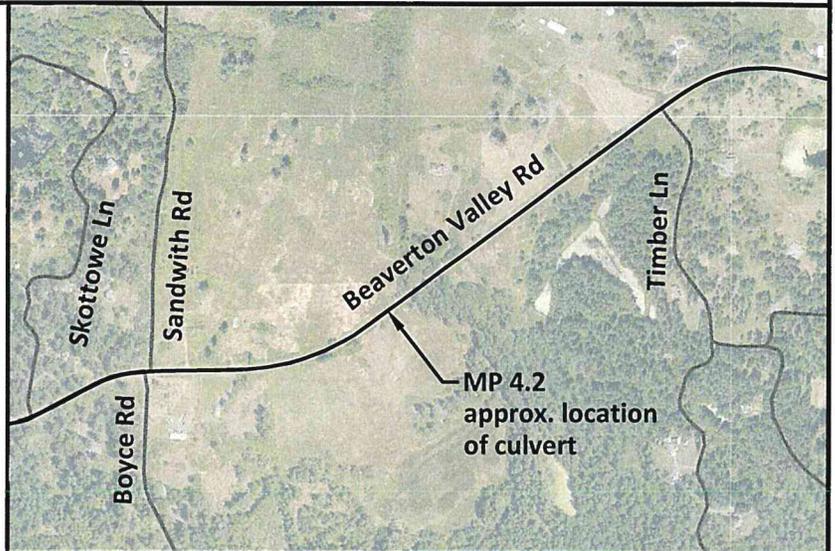


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2019 Six Year Transportation Improvement Program (2019-2024)

No. 07

Beaverton Valley Rd Culvert Replacement



Project Objective:

- Replace the existing deteriorating culvert.

Project Need:

- The current 46 foot long by 24 inch unreinforced concrete culvert is failing.
- Pipe joint separation has occurred underneath the eastbound lane causing some slumping in the road surface and jeopardizing the integrity of the road base.



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No. 08 Douglas Rd Improvements

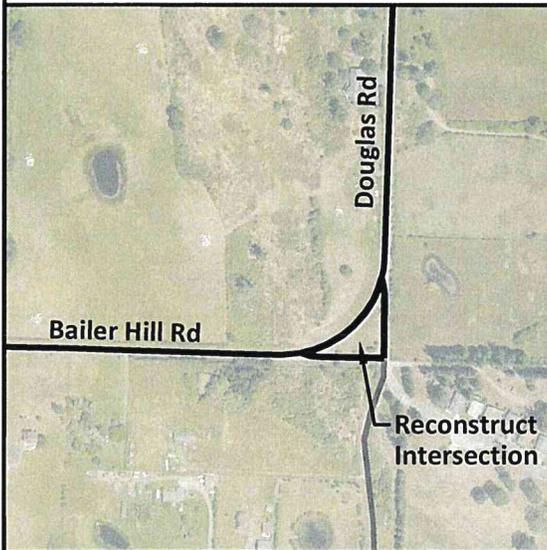


Posted: 45 mph
85% Speed: 45.8 mph
AADT: <3,000
FFC: 08
(MP 3.6, 2018 data)



5 Yr Accident History:

- 1 No Injury
- 1 Evident Injury Non-Disabling
- 2 Possible Injury



Project Objective:

- Reconstruct the roadway to include 11 foot lanes with 4 foot shoulders.
- Reconstruct the intersection at 'The Oaks' into a radial 'T' intersection.

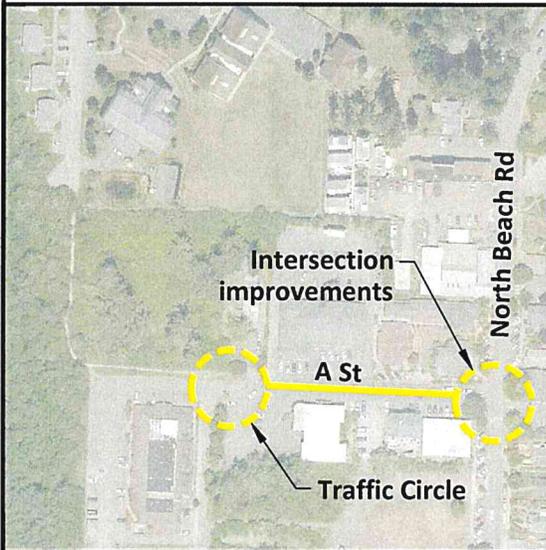
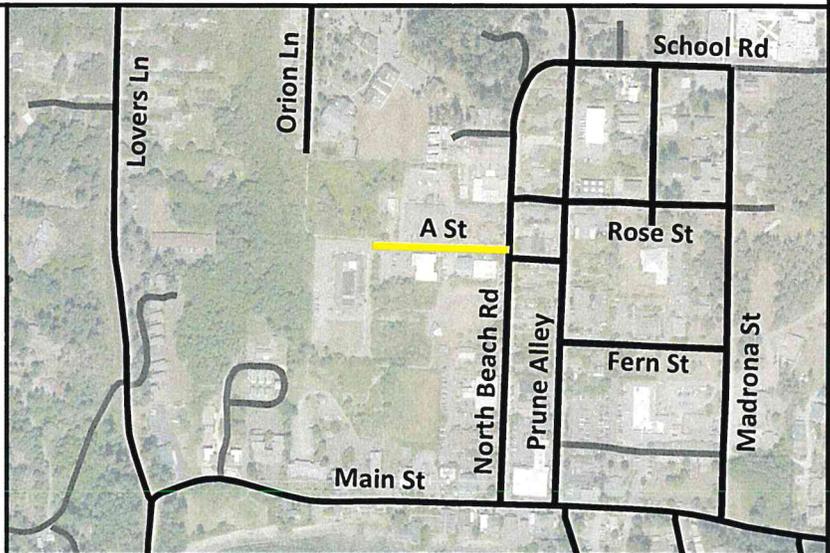
Project Need:

- The road has limited vertical and horizontal sight distance and little to no shoulder.
- Intersections along this route have high rates of accidents and near miss vehicular collisions.
- A deep ditch on the south side of the road near False Bay Drive destabilizes the road structure. Flooding often occurs in this area where False Bay Creek drains the majority of San Juan Valley under Bailer Hill Road.
- Douglas Road to Bailer Hill Road is a major transportation link on San Juan Island providing a direct route from Friday Harbor to the west side of San Juan Island.



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No. 09 A Street Improvements



5 Yr Accident History:

- 3 No Injury
- 1 Possible Injury

Posted: 20 mph
85% Speed: 14.0 mph
AADT: >3,000
FFC: 09
(MP 0.04 , 2011)

Project Objective:

- Construct complete street improvements in accordance with current Eastsound Street Standards, including improvements to the intersection with North Beach Rd and a traffic circle.
- Design considerations for parking, lighting, landscaping, pedestrian and accessibility accommodations,
- Utility relocations and storm drain improvements.

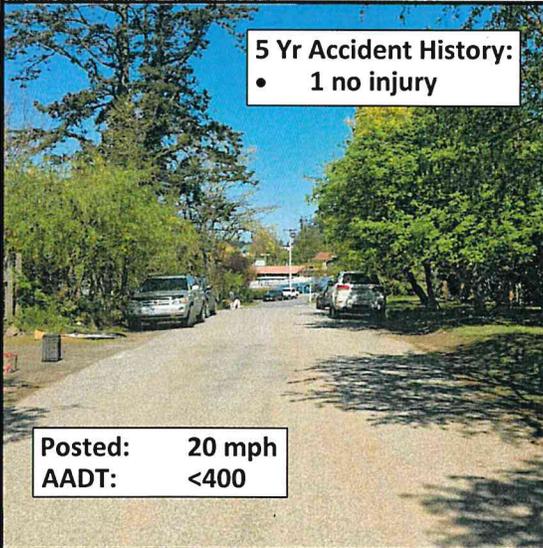
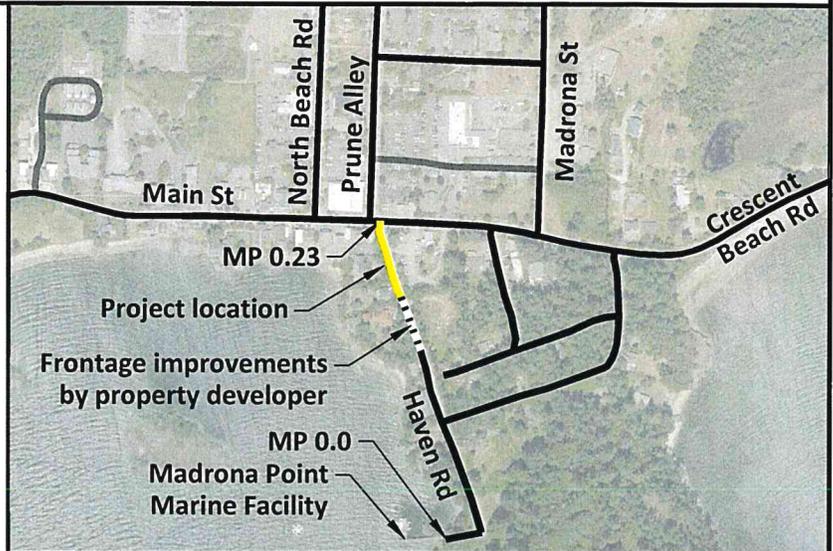
Project Need:

- A Street is at the heart of Eastsound’s commercial core. This is one of the most heavily traveled streets in Eastsound.
- The street is a chipsealed surface over an unimproved road without adequate drainage or pedestrian facilities.
- Conceptual design alternatives have been developed.



Rev. 2018-08-16

No. 10 Haven Road Pedestrian Improvements



Project Objective:

- Construct complete street improvements in accordance with current Madrona Point Street Standards
- Utility relocations and storm drain improvements.

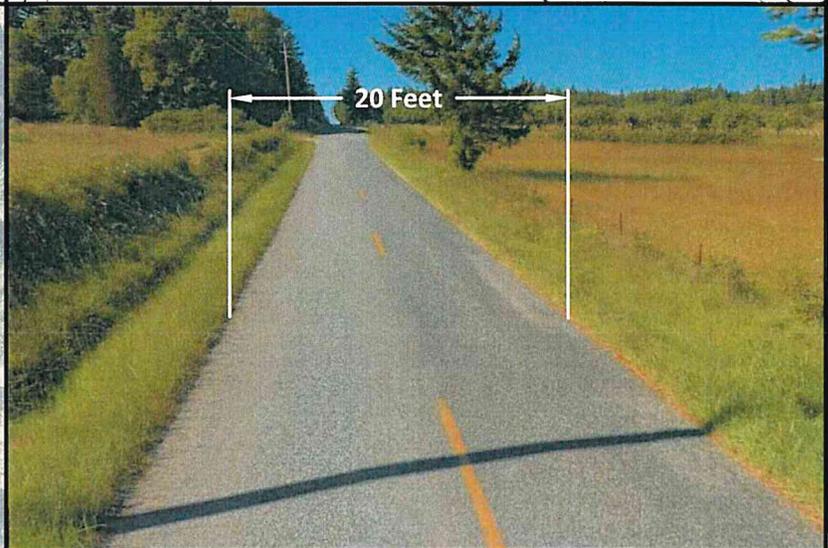
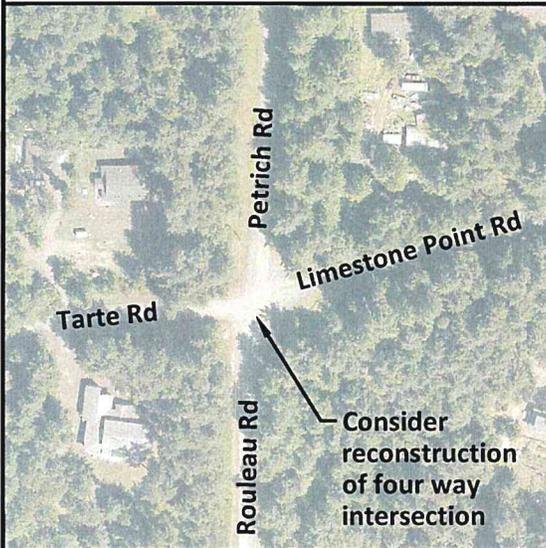
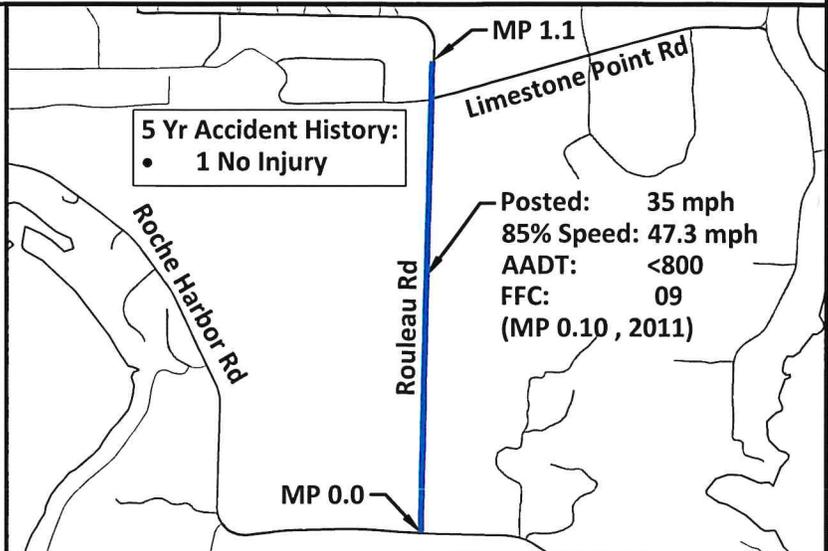
Project Need:

- This road serves the Madrona Point Marine facility, Odd Fellows Hall, commercial and residential communities.
- The street is a chipsealed surface over an unimproved road without adequate drainage or pedestrian facilities.



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No. 11 Rouleau Rd Improvements



Project Objective:

- Reconstruction of a failing road base with considerations for road widening, drainage improvements and sight distance improvements at intersections.

Project Need:

- Inadequate road base material and inadequate roadside drainage has contributed to failure of road structure. Reclaiming will not solve the problem. The road surface is rough and bumpy from patching of numerous potholes and cracks.
- Project includes topographic survey, possibly Right-of-Way acquisition, design and construction.
- The improvement may include shoulder widening and roadside drainage.
- The intersections have poor site distance and may be considered for improvement as part of this project.



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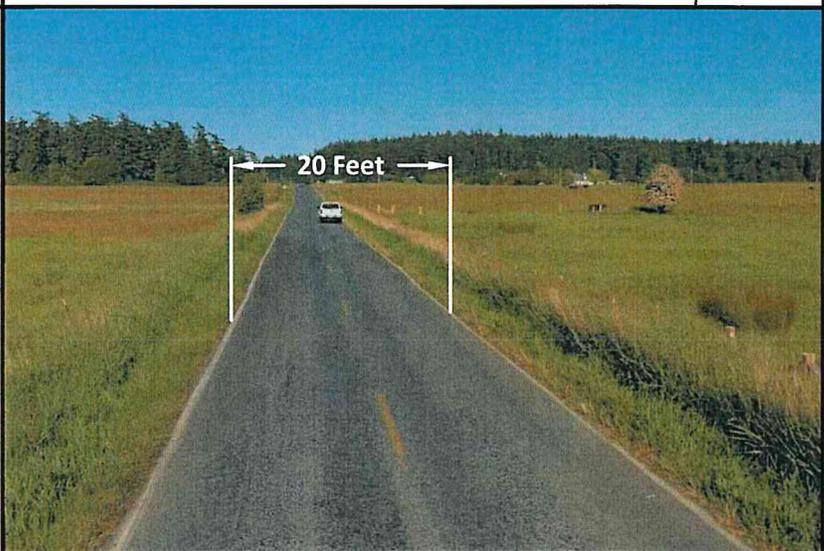
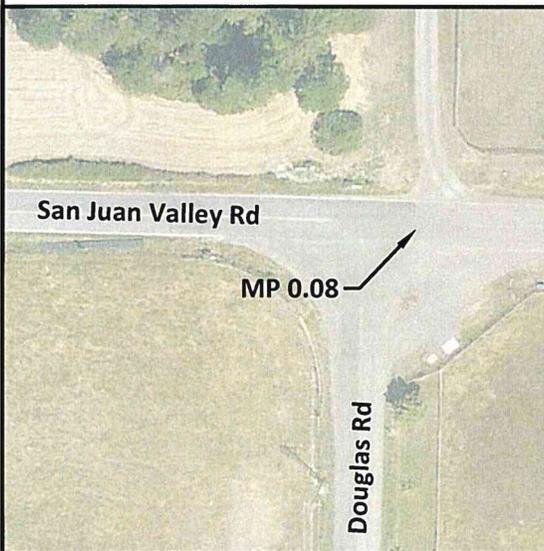
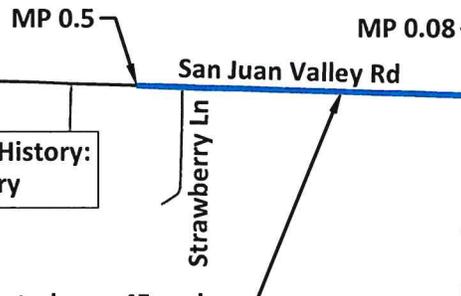
2019 Six Year Transportation Improvement Program (2019-2024)

No. 12 San Juan Valley Rd Improvements



5 Yr Accident History:
• 3 No Injury

Posted: 45 mph
85% Speed: 47.3 mph
AADT: <2,000
FFC: 09
(MP 0.10 , 2010)



Project Objective:

- Structural reconstruction of a failing road base with considerations for road widening.

Project Need:

- The roadway surface is rough with humps and sags caused by settlement, and slumps at the edge of pavement. The underlying material is peat and portions of the road need major reconstruction.
- Vehicles, especially large trucks, drive down the center of the road when there is no oncoming traffic. 'Rough Road Ahead' signs have been installed.
- Recent utility projects have highlighted the structural instability of the underling road base.

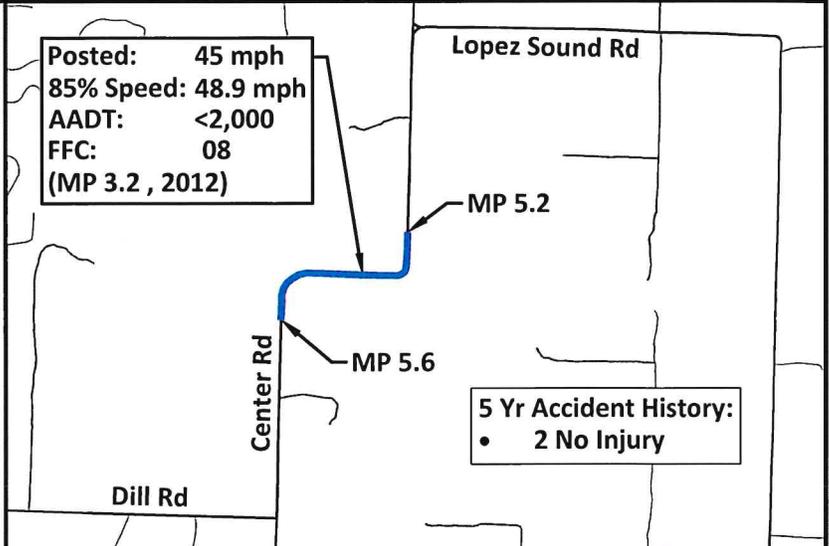


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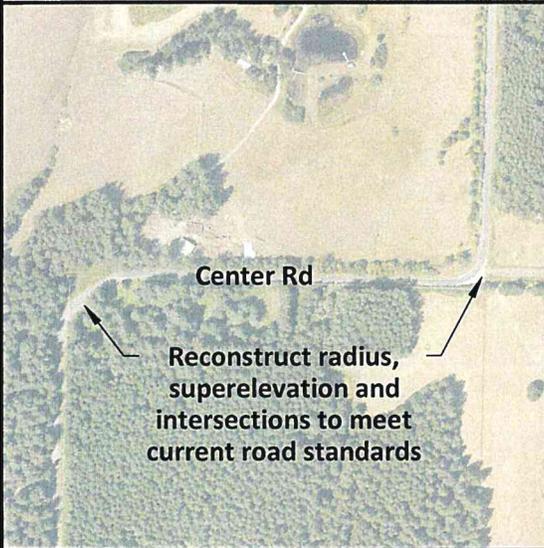
No. 13 Center Rd Improvements



Posted: 45 mph
85% Speed: 48.9 mph
AADT: <2,000
FFC: 08
(MP 3.2, 2012)



5 Yr Accident History:
• 2 No Injury



Project Objective:

- Widen the roadway to include shoulders, reconstruct curves and super-elevations, and improve both intersections, all to meet current county road standards.

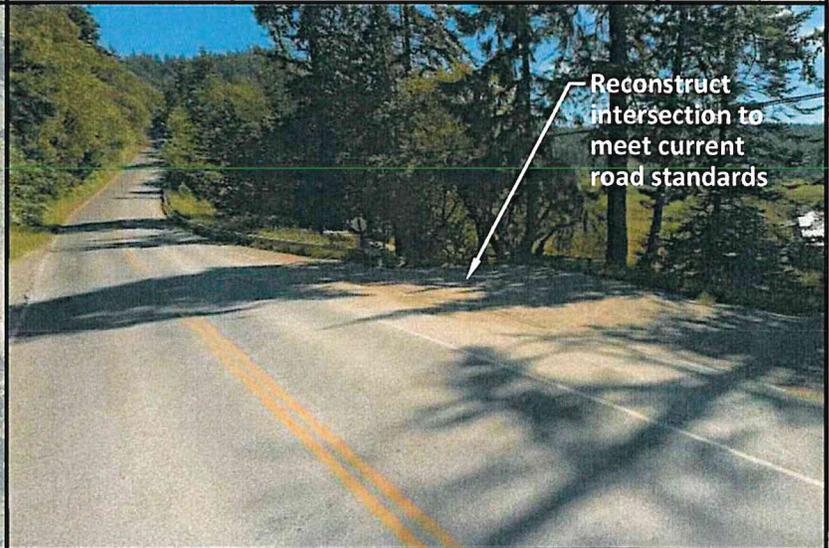
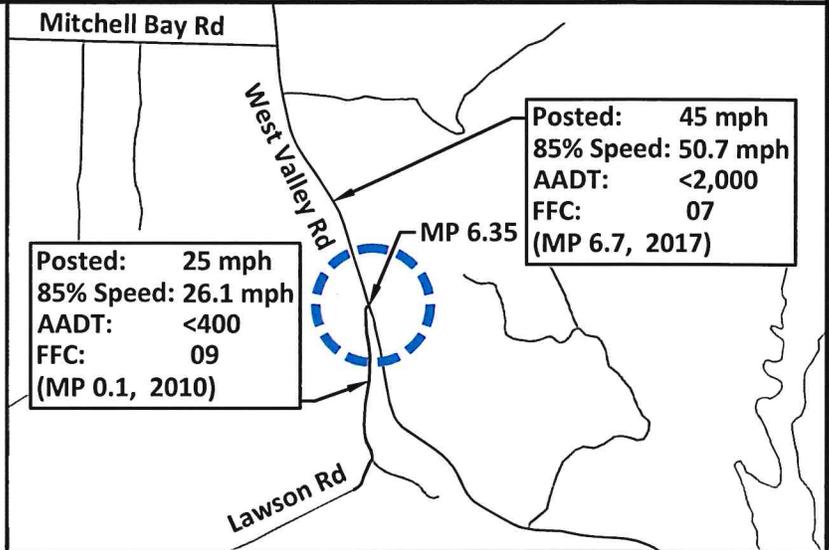
Project Need:

- The road has limited sight distance through both intersections and curves.
- The curves are built with high bank super-elevations and tight curve radii.
- Shoulders improvements are needed for safety and non-motorized transportation.



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No. 14 Lawson Rd Intersection



Project Objective:

- Improve the intersection for safety.

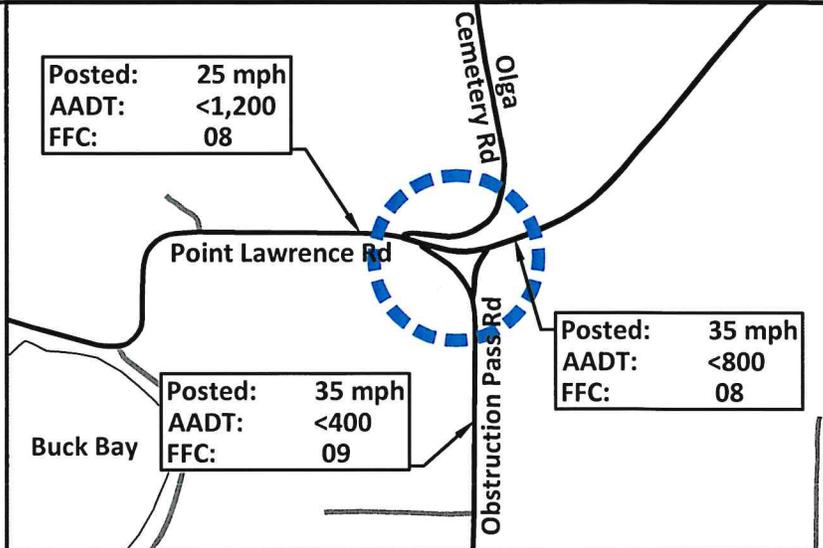
Project Need:

- Large vehicles use this intersection.
- Improve sight distance, drainage and safety.

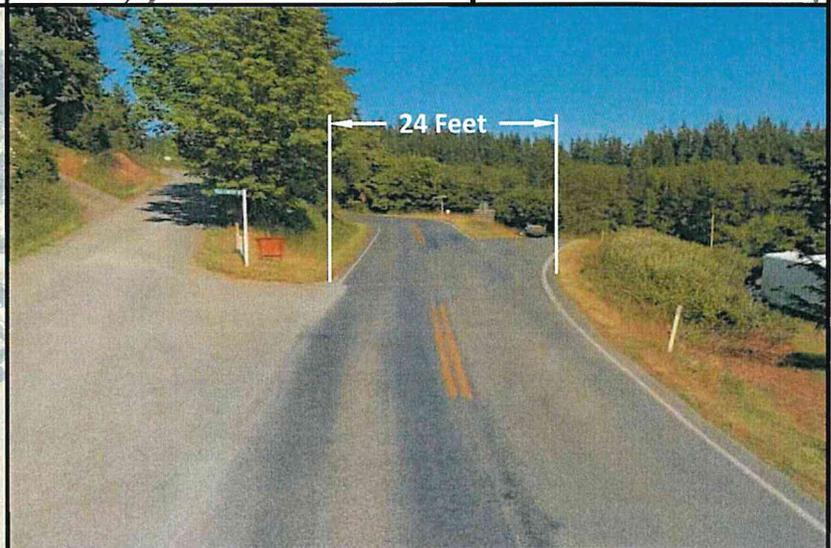
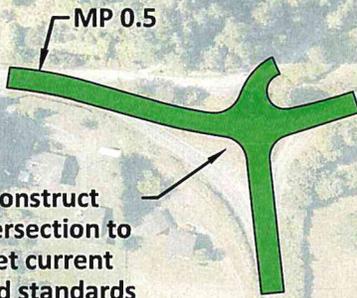


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No. 15 Obstruction Pass Rd Intersection



5 Yr Accident History:
 • 1 Injury



Project Objective:

- Intersection safety improvements.

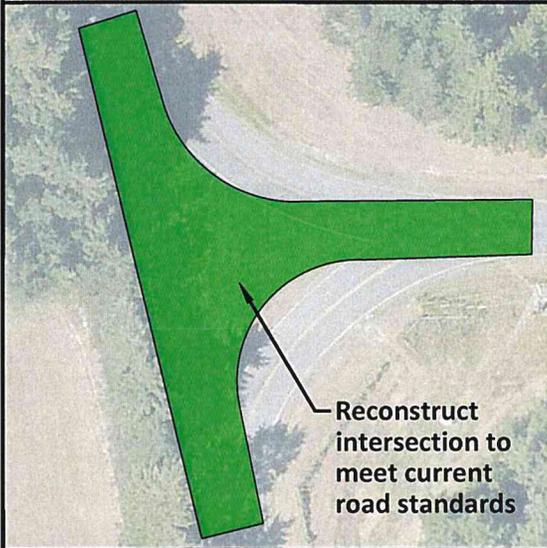
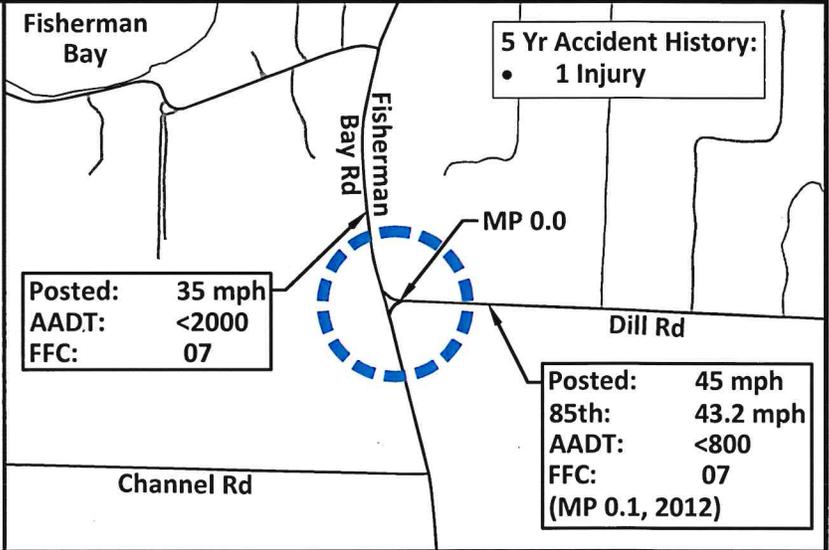
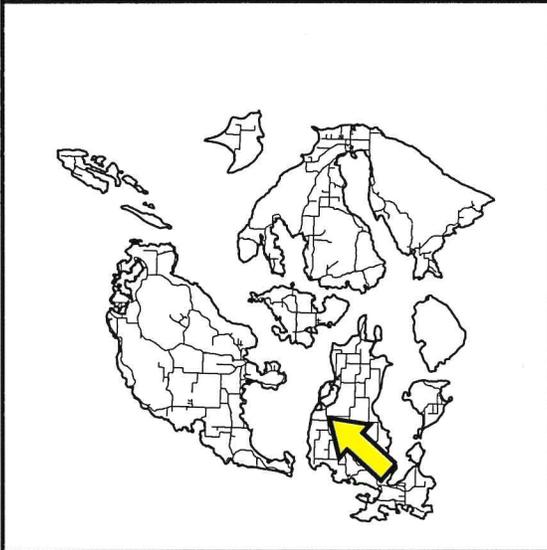
Project Need:

- This intersection provides access to the public boat ramp and marine facility at at Obstruction Pass and the east side of Orcas Island.
- Sight distance improvements.



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No. 16 Dill Rd Intersection



© 2013 Pictometry

Project Objective:

- Intersection safety improvements.

Project Need:

- This 'Y' intersection has inadequate sight distance.

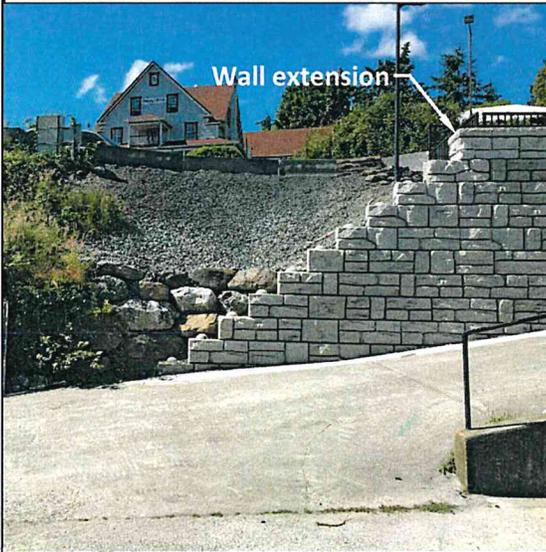


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2019 Six Year Transportation Improvement Program (2019-2024)

No. 17

Orcas Landing Marine Facility



Project Objective:

- Establish a pedestrian link from Orcas Road to the old fuel tank storage site through the Orcas Landing Marine Facility.

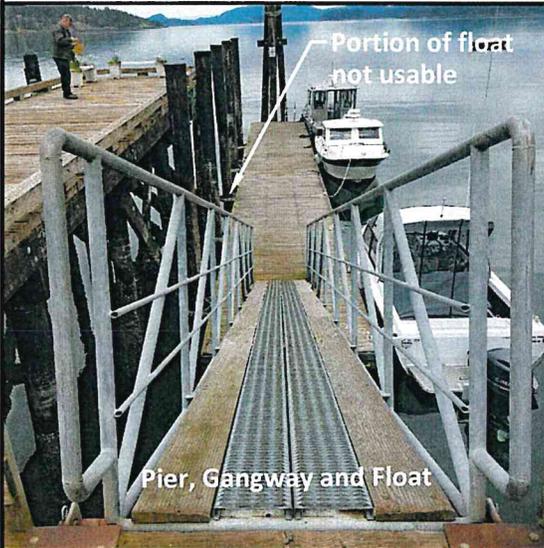
Project Need:

- This project expands public access to and from the existing County marine facility.



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No. 18 Hunter Bay Marine Facility



Project Objective:

- Repair or replace the existing pier, gangway, float and creosote piles.

Project Need:

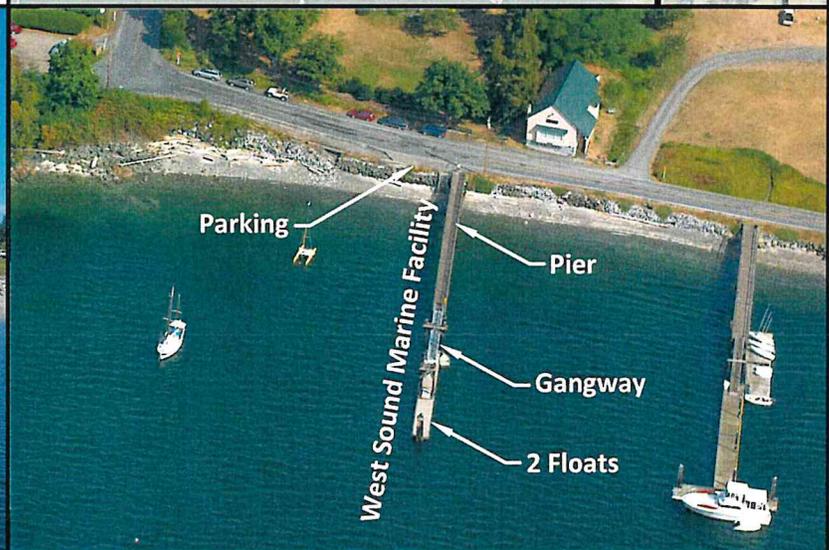
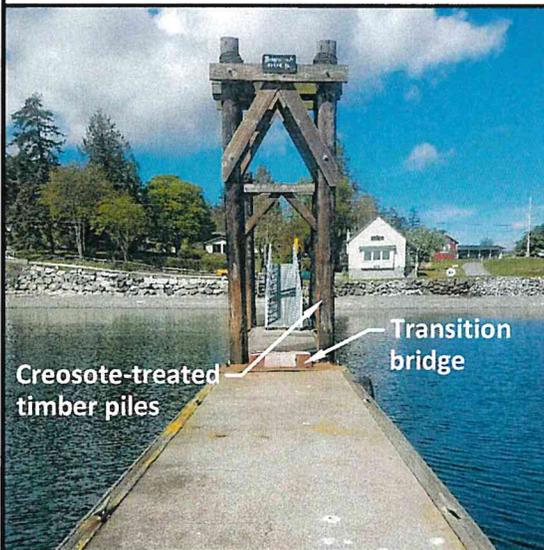
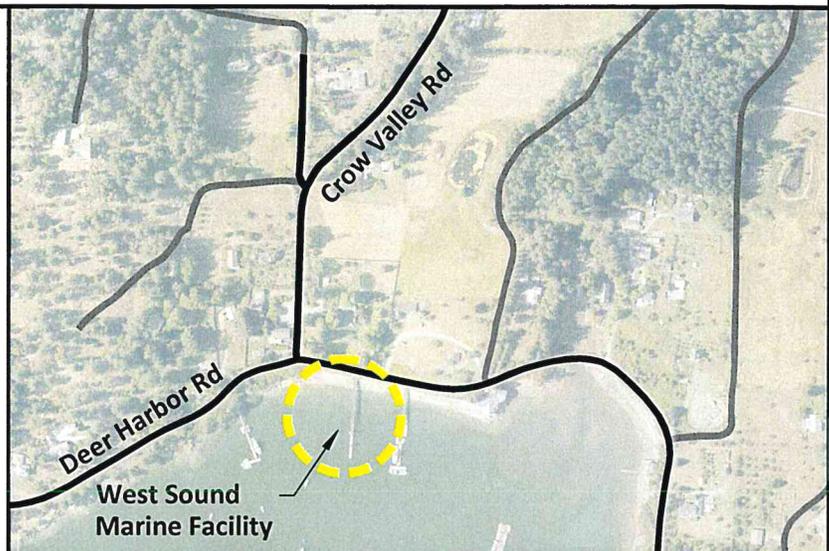
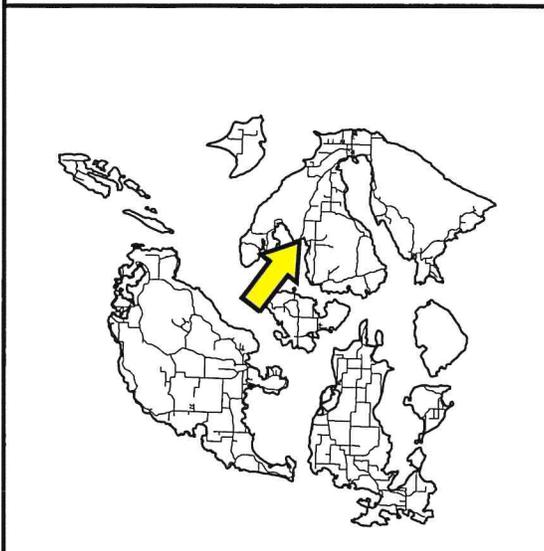
- Only half the float can be used in its current configuration.
- The pier, gangway, float and hardware all show significant wear.
- This project may include an analysis to determine the best expansion option for the float.
- Meet current gangway standards for accessibility.



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2019 Six Year Transportation Improvement Program (2019-2024)

No. 19 West Sound Marine Facility



Project Objective:

- Remove eleven creosote-treated timber piles and cross-bracing and replace with eight new galvanized steel pipe piles.
- Replace the two existing floats with a single heavy duty timber float with foam-filled HDPE floatation drums and high-traction fiberglass grate deck.
- Install new aluminum gangway.

Project Need:

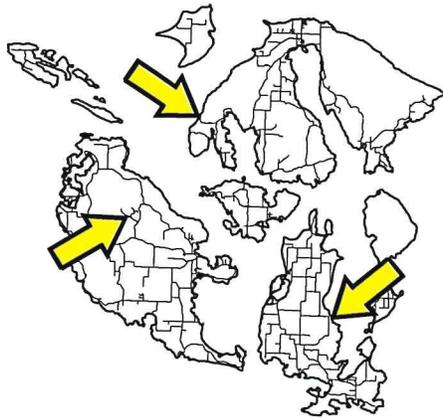
- The transition bridge that spans the gap between the two independent floats is subject to failure and requires frequent maintenance.
- The weight of the existing floats and the large motions they experience during storms causes damage to the pile retainers.



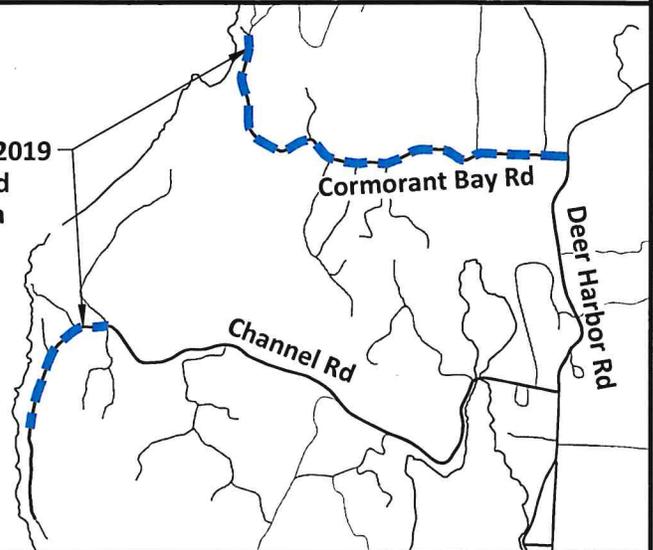
Rev. 2018-08-16

2019 Six Year Transportation Improvement Program (2019-2024)

No. 20 Gravel Road Conversions



Proposed 2019
gravel road
conversion



Project Objective:

- Convert existing gravel roads with chip seal paving.
- Gravel road conversions do not significantly alter the roadway geometry.
- 2019 District 2, 2020 District 3, 2021 District 1.

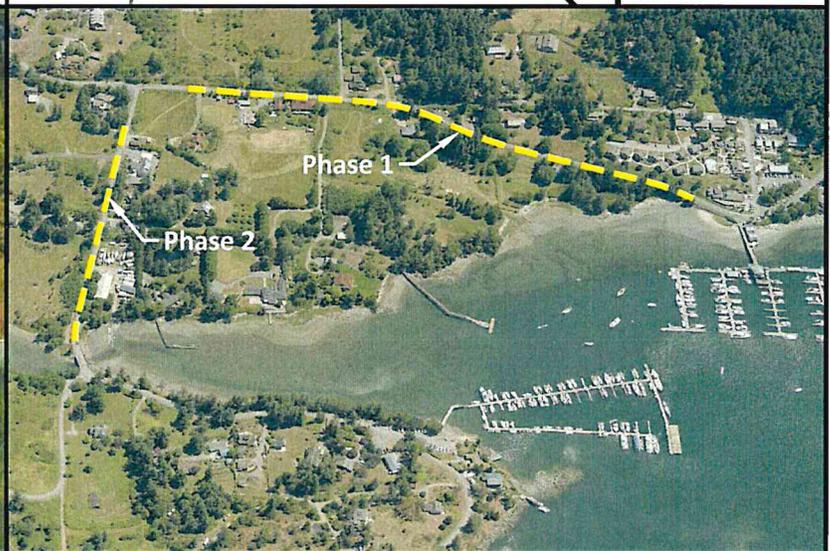
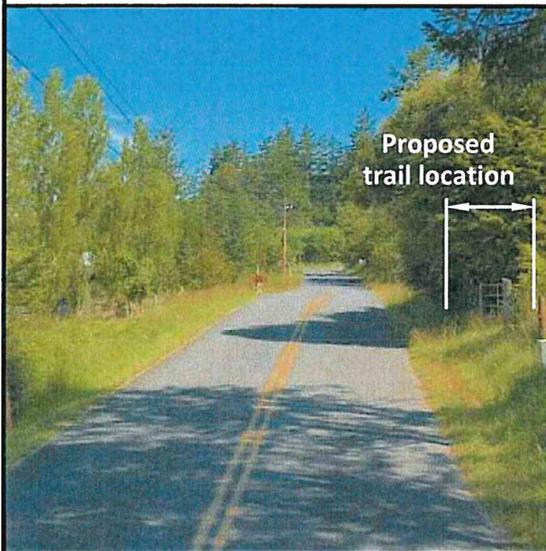
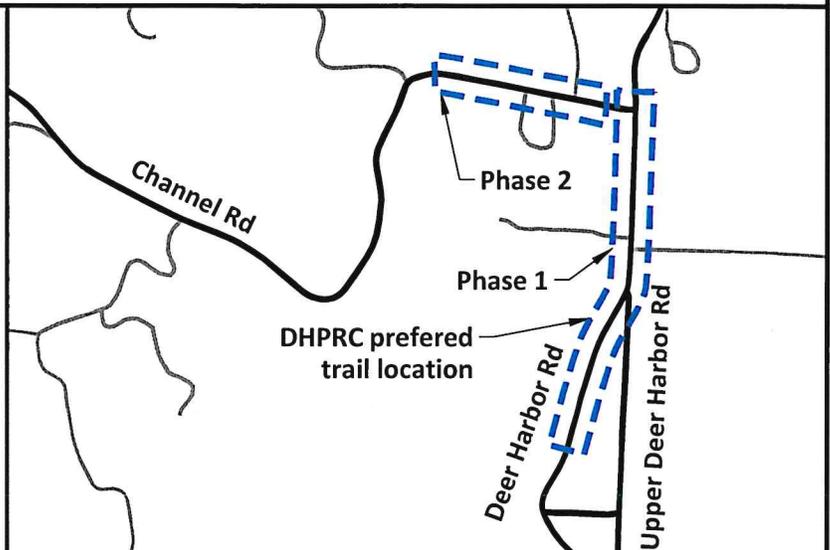
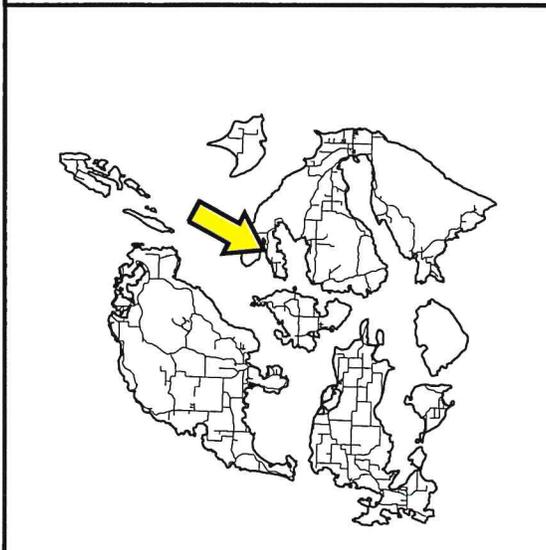
Project Need:

- Gravel roads are converted to chip seal when it can be shown to be a more economical method of maintaining County Roads.
- Safety, level of service and public interest are also considered.



Rev. 2018-08-16

No. 21 Deer Harbor Hamlet Trails



Project Objective:

- Construct roadside trails along connecting destinations in the heavily traveled Deer Harbor Hamlet.

Project Need:

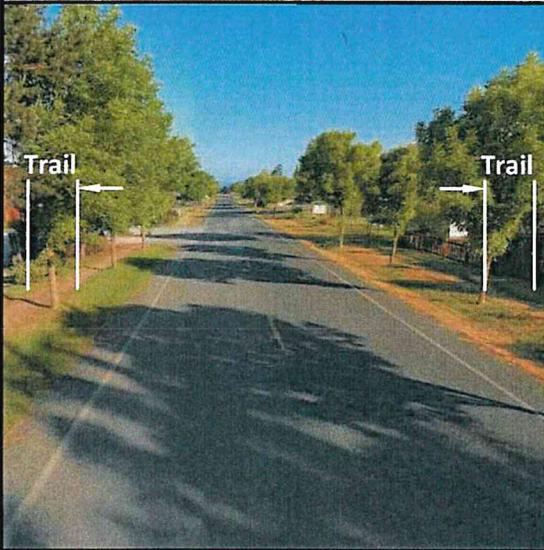
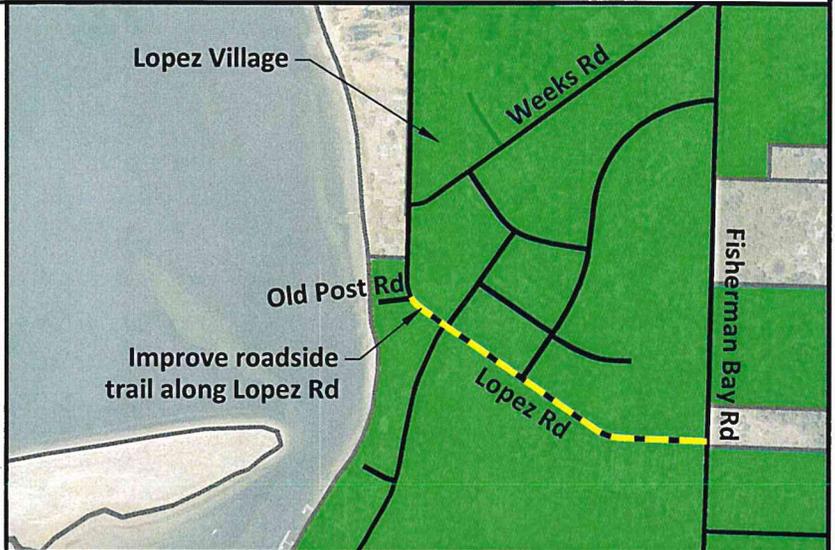
- This project was proposed and developed in coordination with the local planning group, Deer Harbor Plan Review Committee (DHPRC). DHPRC applied for and was awarded funds for construction by LTAC.



Rev. 2018-08-16

2019 Six Year Transportation Improvement Program (2019-2024)

No. 22 Lopez Road Trail



Project Objective:

- Improve or restore the existing trail network along Lopez Road from Fisherman Bay Rd to Old Post Rd.

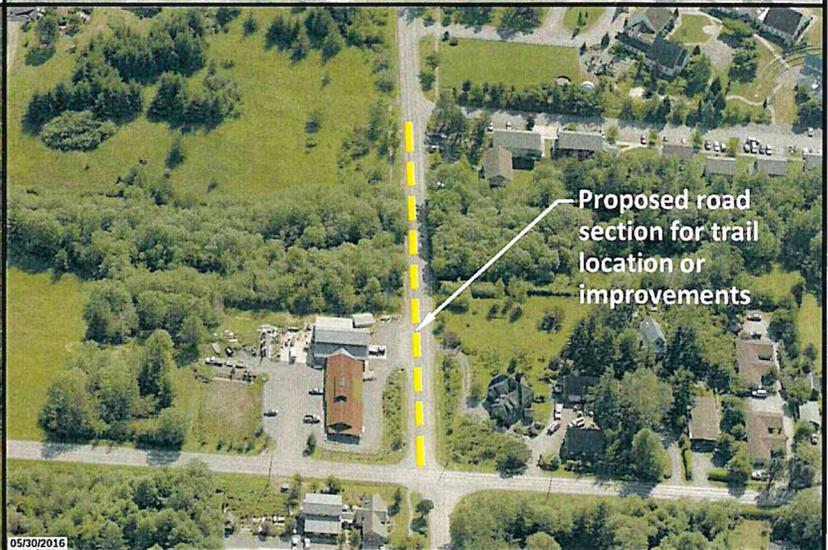
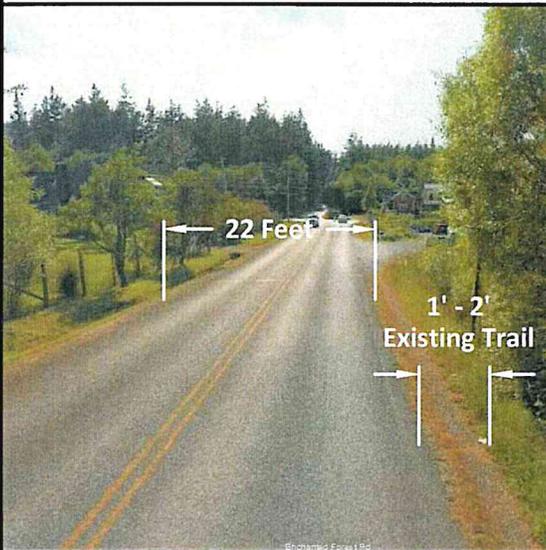
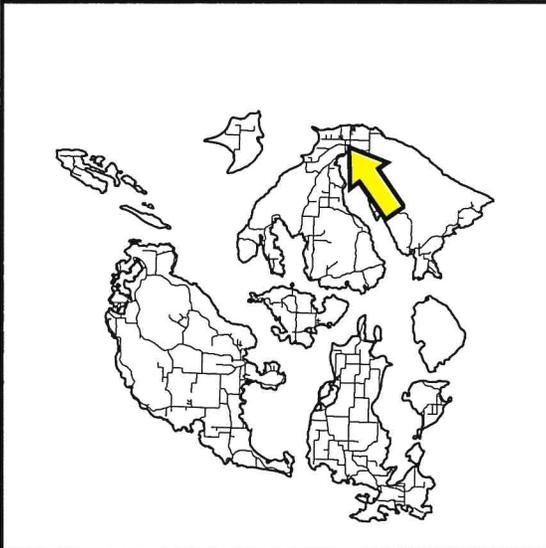
Project Need:

- Portions of this road had gravel trails installed in the 1994 Lopez Road Improvement Project.
- Trails on both sides of Lopez Road have become overgrown and narrowed over time.
- This project will restore or improve trails to meet current county standards.



Rev. 2018-08-16

No. 23 Enchanted Forest Road Trail



Project Objective:

- Improve and complete the existing trail network along Enchanted Forest Road.

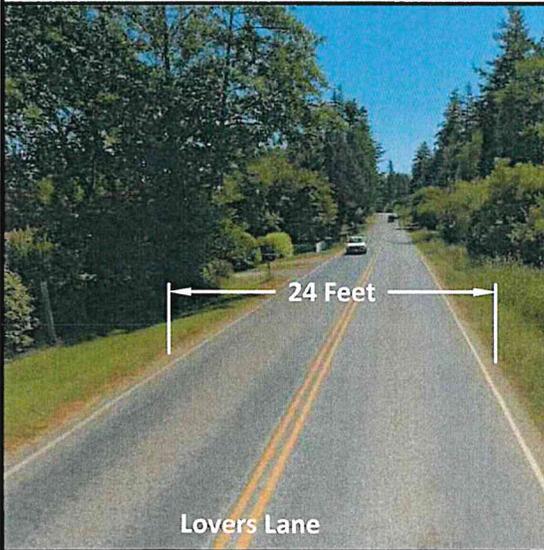
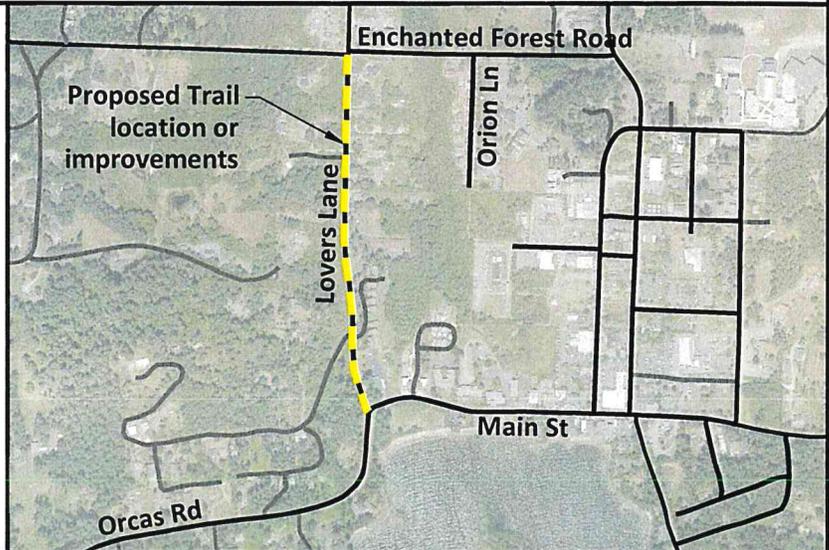
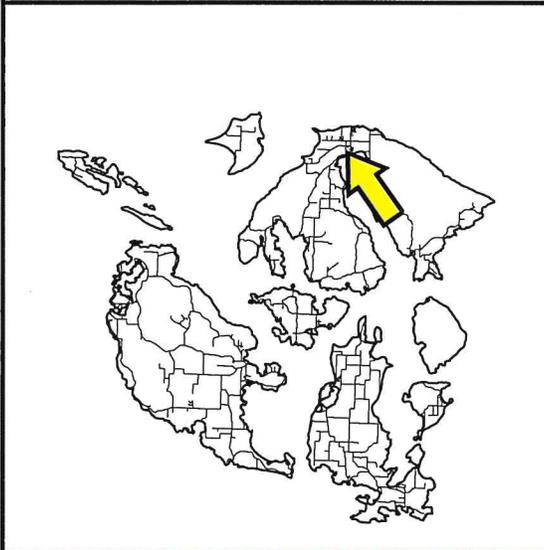
Project Need:

- Portions of this road have minimal shoulders and limited ROW.
- Work with EPRC to develop Street Standards for this section of Enchanted Forest Rd
- Connect to the section of Enchanted Forest Roadside Trail that is west of this project and runs between Lover's Lane and Loganberry Lane as five foot wide compacted gravel surface.
- Connect to the existing segment of this trial running east from Orion Ln to North Beach Road, as a five foot wide compacted gravel surface.
- Connect to the Airport Trail and Eastsound Swale Trail heading north and south at the intersection of Enchanted Forest Road with Orion Lane.



Rev. 2018-08-16

No. 24 Lover's Lane Trail



Project Objective:

- Improve and complete the existing trail network along Lovers Lane.

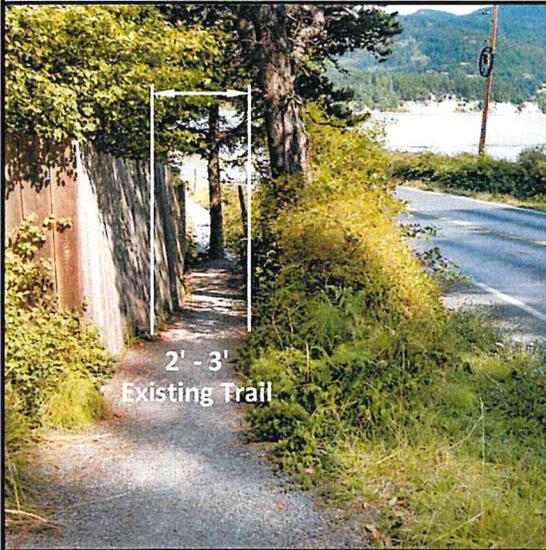
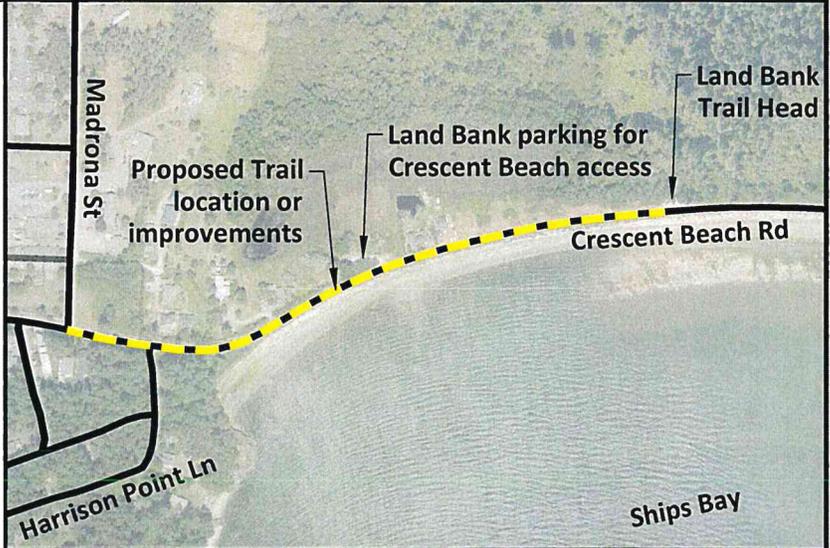
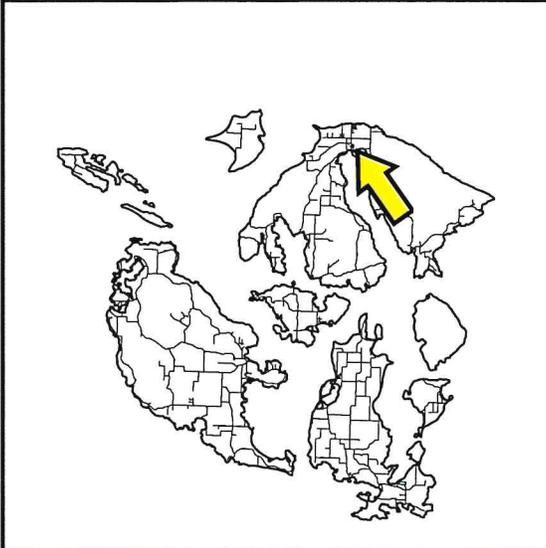
Project Need:

- This section of road is the truck by-pass route, has high AADT and is heavily traveled by pedestrians.
- Portions of this road have minimal shoulders and limited ROW.
- Work with EPRC to develop street standards for this section of Lovers Lane.
- Improvements will focus on meeting appropriate updates to the Eastsound Street Standard for pedestrians.
- Connect to the existing section of Enchanted Forest Roadside Trail west of this project between Lover's Lane and Loganberry Lane this is a five foot wide compacted gravel surface.
- Connect to proposed future section of Eastsound trail network to create a continuous link into the village center.



Rev. 2018-08-16

No. 25 Crescent Beach Rd Trail



Project Objective:

- Construct a roadside trail along Crescent Beach Road from Madrona Street to the Land Bank's eastern parking lot along and trail head.

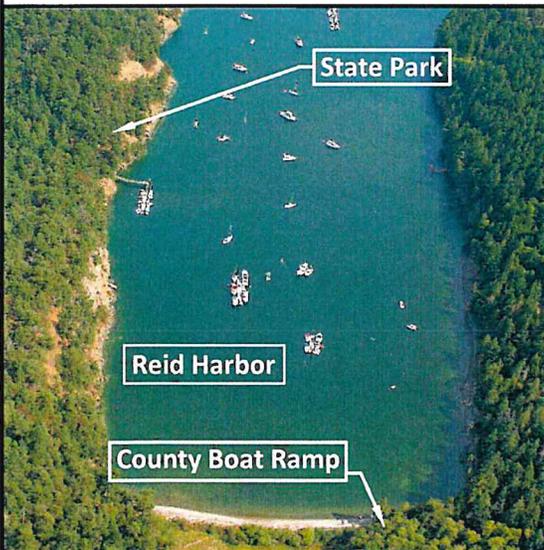
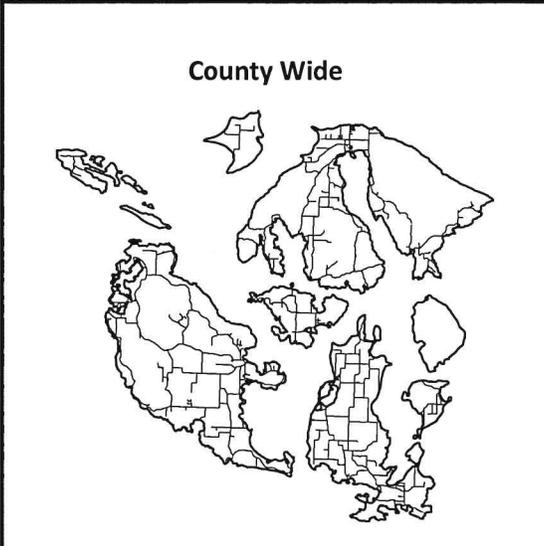
Project Need:

- This section of Crescent Beach Road has minimal shoulders and is heavily traveled by vehicles and pedestrians.
- Work with EPRC to develop street standards for this section of Crescent Beach Road.



Rev. 2018-08-16

No. 26 San Juan County Mooring Buoys



Project Narrative:

- In 2015 the state legislature amended RCW 36.82.070 to include the following provision: "For counties that consist entirely of islands, county road purposes also include marine uses relating to navigation and moorage. Such a county may deposit revenue collected under RCW 84.52.043 and 36.82.040, in the amount or percentage determined by the county, into a subaccount within the county road fund to be used for marine facilities, including mooring buoys, docks, and aids to navigation"
- The Public Works Department is currently working with the County Council, the County Road Administration Board and the County Auditor to establish a program to install mooring buoys around San Juan County using Road Funds that is compliant with State law.